

CENTENNIAL VILLAGE DEVELOPMENT

IMPROVEMENT PLANS CITY OF MASSILLON COUNTY OF STARK STATE OF OHIO

SANITARY, STORM SEWERS, WATER & PAVING

DESIGN ENGINEER:

DEVELOPER:

LOCATION MAP

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STANDARD DRAWINGS AND SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO,
DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND
MATERIAL SPECIFICATIONS, 2000 EDITION SHALL APPLY.

UNDERGROUND UTILITIES

2 WORKING DAYS

BEFORE YOU DIG

1-800-362-2764

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CALLED DIRECTLY

1-800-925-0988

OIL & GAS PRODUCERS

UNDERGROUND PROTECTION SERVICE

SUBMITTED BY: Larry D. Shopper
KARL R. ROHRER ASSOCIATES, INC.

APPROVED BY: John Hall, Member
MD OWNERSHIP, LLC

CITY OF MASSILLON MASSILLON, OHIO

DATE 8/22/02
CITY ENGINEER
DATE 8/21/2002
CONSUMER OHIO WATER COMPANY
DATE

OHIO ENVIRONMENTAL PROTECTION AGENCY APPROVAL

WATER APPROVED BY LETTER DATED _____ DATE _____

SEWER APPROVED BY LETTER DATED

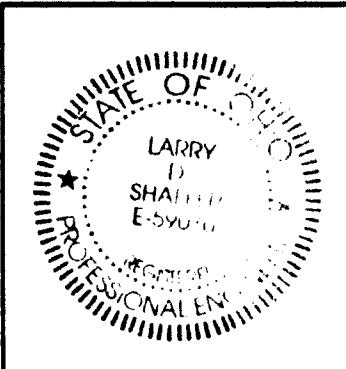
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DATES & REVISIONS

FOR PLAT APPROVAL	6/16/01
FINAL REVIEW SET	6/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/08/02

[illegible]

SEWERAGE
APPROVED
WHO ENVIRONMENTAL PROTECTION
AS EVIDENCED BY THE
LETTER OF THE DISTRICT OF
HEREBY ATTACHED

PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT
PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44646

KRRA JOB NO.
DRAWN BY
CHECKED BY

SHEET NO.

+

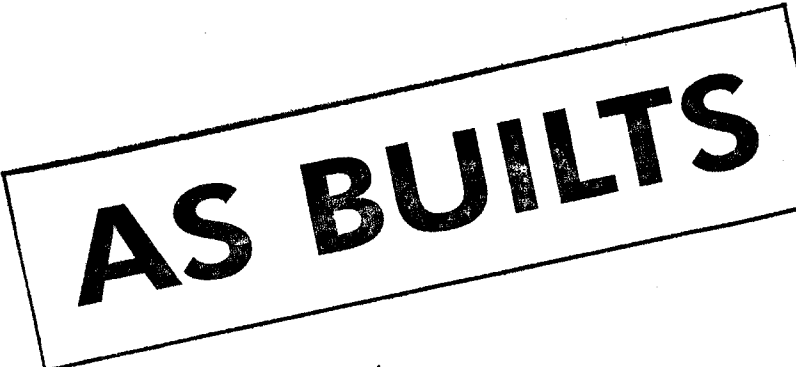
OFFICES:
3810 Ridgewood Road
Akron, Ohio 44321

PH: 330-666-1127
FAX: 330-668-2788
EMAIL: KRR@KARLROHRER.COM

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KARL R. ROHRER ASSOCIATES INC.

02 50 01



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SHEET NO.
6

PH: 330-666-1127
FAX: 330-668-2788
EMAIL: KRRA@KARLROHRER.COM

NOTICE

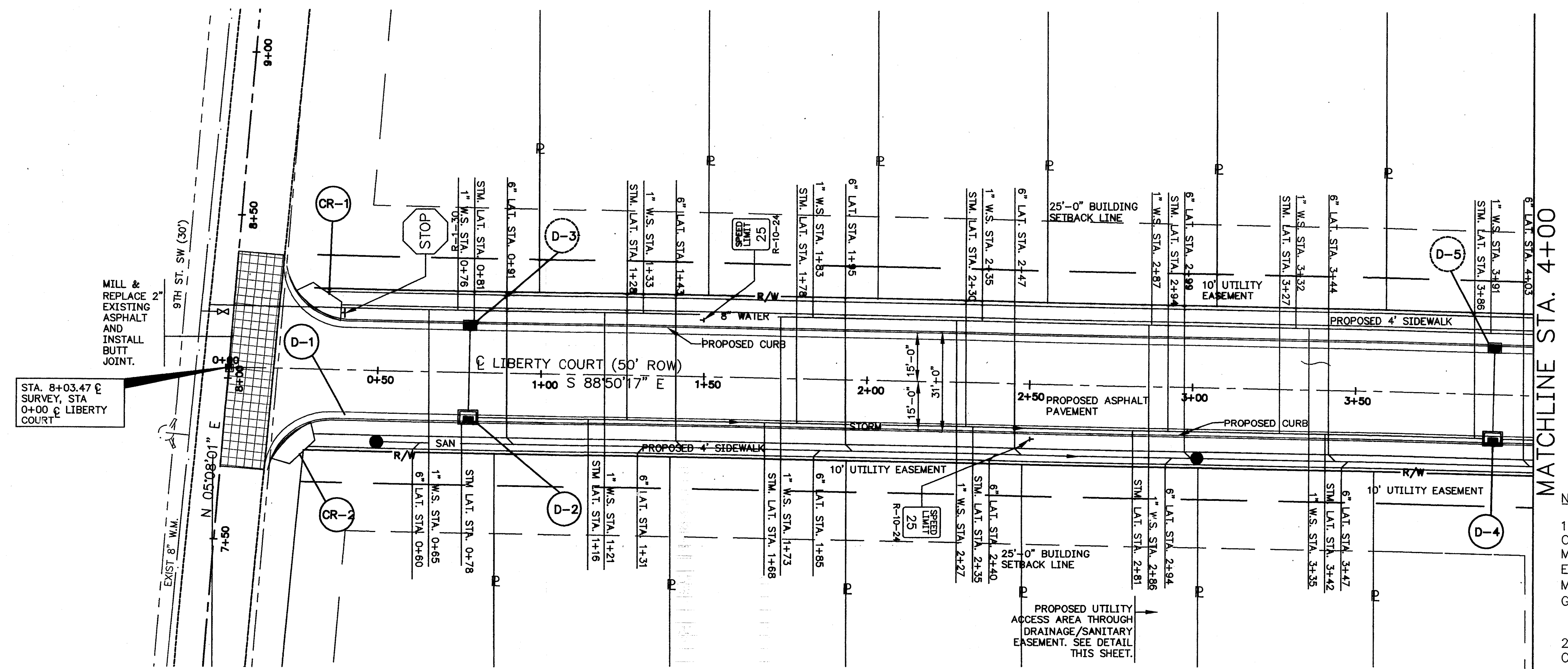
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DATES & REVISIONS

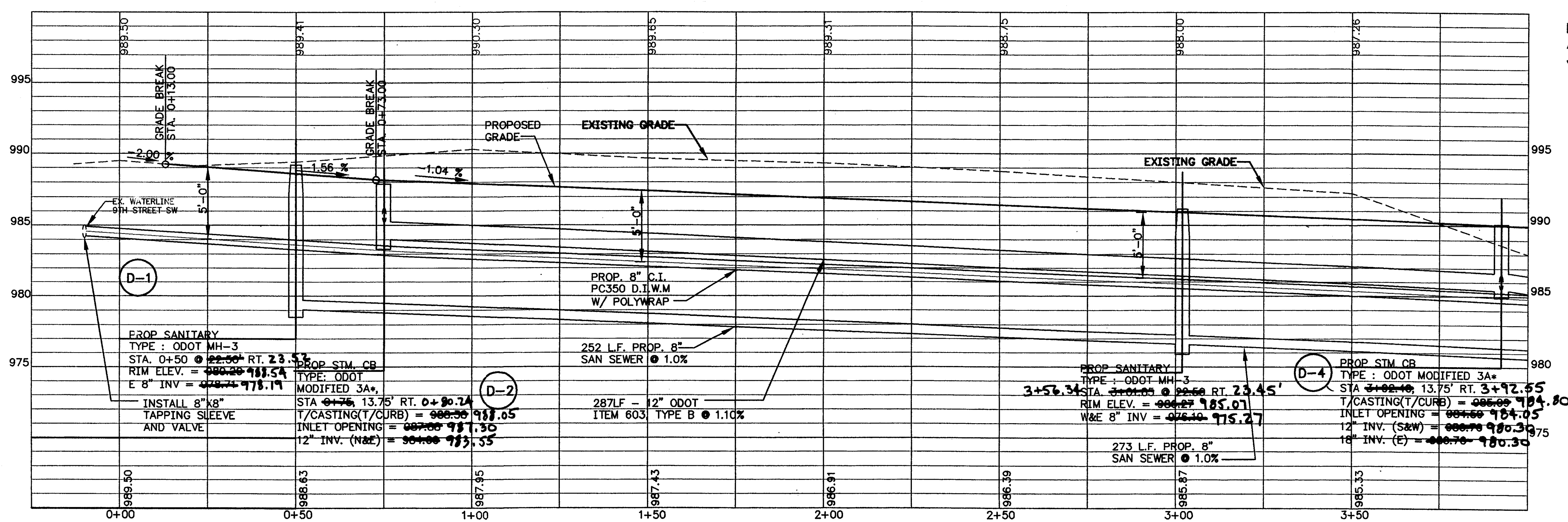
FOR PLAT APPROVAL	6/18/01
FINAL REVIEW SET	6/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/08/02

SCALES:
HORIZ. 1" = 20'
VERT. 1" = 5'



LIBERTY COURT - 50' R/W

FOR TOP OF GRATE AND INVERT ELEVATIONS FOR DRAINAGE REFERENCES D-3 & D-5 SEE CROSS SECTIONS

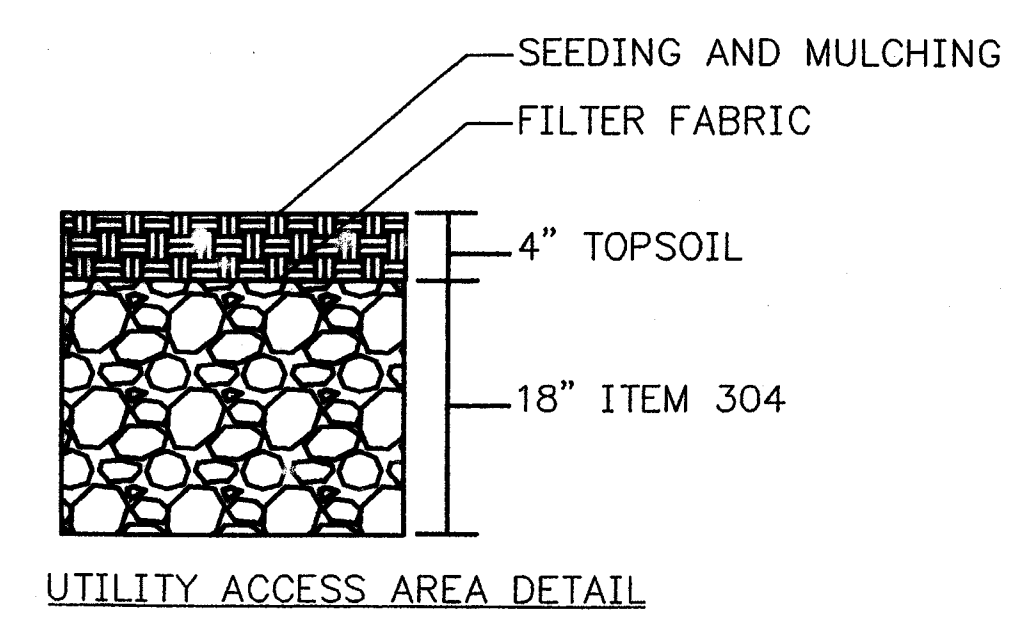


- NOTES:
1. PROPOSED CATCH BASINS IN STREET ARE ODOT MODIFIED 3A WITH EAST JORDAN IRON MODEL 7030 WITH FISH STAMP OR APPROVED EQUAL. MODIFIED 3A CB'S SHALL HAVE A MINIMUM 12" CONCRETE BAND SURROUNDING GRATE (SEE SHT 5).
 2. FOR STORM PROFILES PERPENDICULAR TO CENTERLINE SEE CROSS SECTIONS.
 3. FOR STORM CATCH BASINS DENOTED AS ODOT MODIFIED 3A*, AND MODIFIED 3A REFER TO TYPICAL SECTIONS FOR DETAIL INFORMATION.
 4. SEE SHEET 8 FOR SANITARY MANHOLE DETAIL.

LEGEND:

PROPOSED 30' DRAINAGE /
SANITARY EASEMENT

MILL & REPLACE 2" EXISTING
ASPHALT AND INSTALL BUTT
JOINT.



AS BUILTS

PLAN AND PROFILE SHEET LIBERTY COURT (0+00 TO 4+00)

PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT
PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44646

KRRA JOB NO. K2020
DRAWN BY RGS
CHECKED BY LDS

SHEET NO.

7

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DATES & REVISIONS

FOR PLAT APPROVAL	6/18/01
FINAL REVIEW SET	6/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/06/02

SCALES:
HORIZ. 1" = 20'
VERT. 1" = 5'

NOTES

GENERAL: All manholes and all conditions for standard precast manhole may be used for any required manhole depth.

Sections of the precast manhole shall be cast and assembled with either oil tongue or oil grooves ends up. Lift holes may be provided in each section for handling.

TOP AND TRANSITION (or reducer) sections may be either eccentric cone or flat slab.

BASES: Bases for manholes are shown with manhole floor and riser which may be cast in one or two operations. A permissible alternate is to cast and abut the floor and riser separately. Openings for inlet and outlet pipes shall be provided either when the unit is cast or later, to meet project requirements. Bottom channels may be formed of concrete precast in the base or by field construction as shown on MH-1 and MH-2.

OPENINGS IN RISER SECTIONS: For 18" and smaller inlet pipes may be precast or cut in the field provided the ends of the pipe of the openings do not project into the manhole.

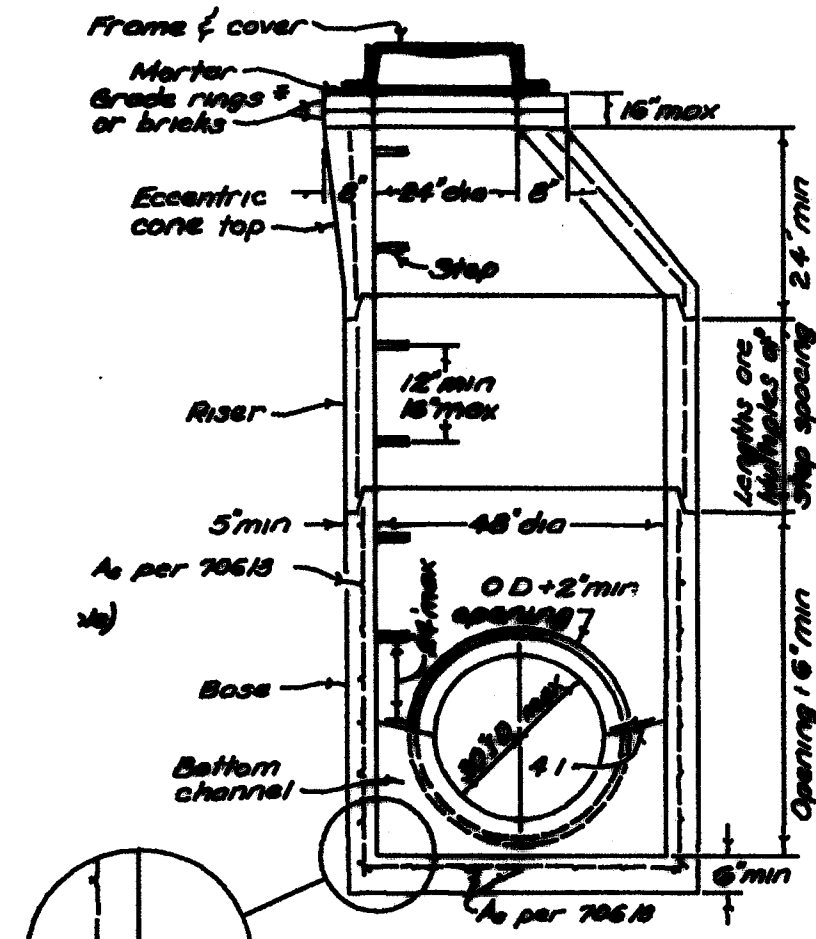
CONNECTIONS: Connections between precast manhole sections and pipes on sanitary sewers may be sealed with resilient connectors conforming to ASTM C888.

JOINT SEAL: Between precast manhole sections on sanitary sewers shall be resilient and flexible gasket joints per 706.11.

MATERIALS: For bases and other precast sections, including reinforcement, not specified herein, shall comply with the requirements of 706.15.

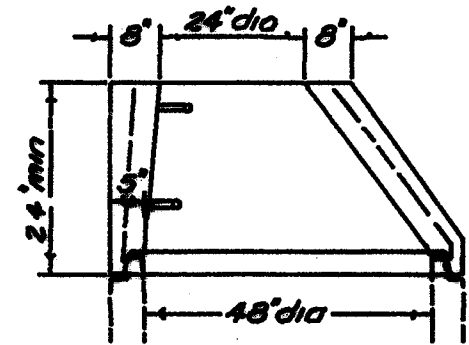
DROP PIPE: When specified on the plans, shall be constructed as shown on MH-2.

STEPS, FRAMES AND COVERS: shall conform with the requirements set forth on MH-1.

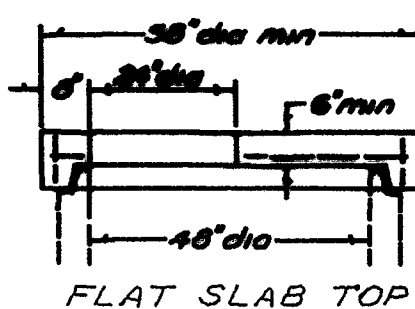


48" PRECAST BASE
FOR 30" AND SMALLER PIPE

ALTERNATE



ALTERNATE
ECCENTRIC CONE TOP



FLAT SLAB TOP

SANITARY MANHOLE (ODOT MH-3)

NOTES:

1. PROPOSED CATCH BASINS IN STREET ARE ODOT MODIFIED 3A WITH EAST JORDAN IRON MODEL 7030 WITH FISH STAMP OR APPROVED EQUAL. MODIFIED 3A CB'S SHALL HAVE A MINIMUM 12" CONCRETE BAND SURROUNDING GRATE (SEE SHT 5).

2. FOR STORM PROFILES PERPENDICULAR TO CENTERLINE SEE CROSS SECTIONS.

3. FOR STORM CATCH BASINS DENOTED AS ODOT MODIFIED 3A*, AND MODIFIED 3A REFER TO TYPICAL SECTIONS FOR DETAIL INFORMATION.

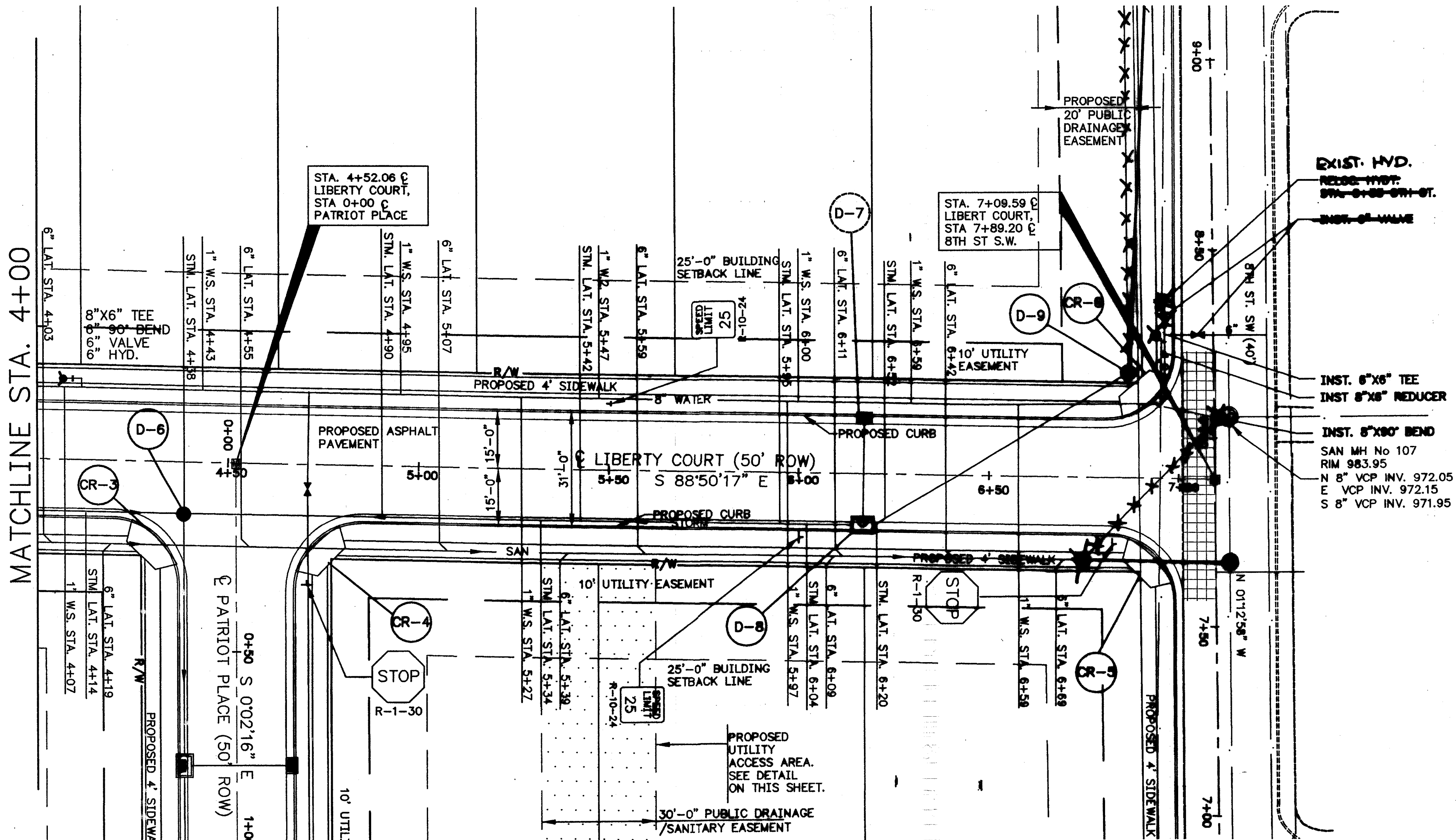
LEGEND:

PROPOSED 30" DRAINAGE /
SANITARY EASEMENT

MILL & REPLACE 2" EXISTING
ASPHALT AND INSTALL BUTT
JOINT.

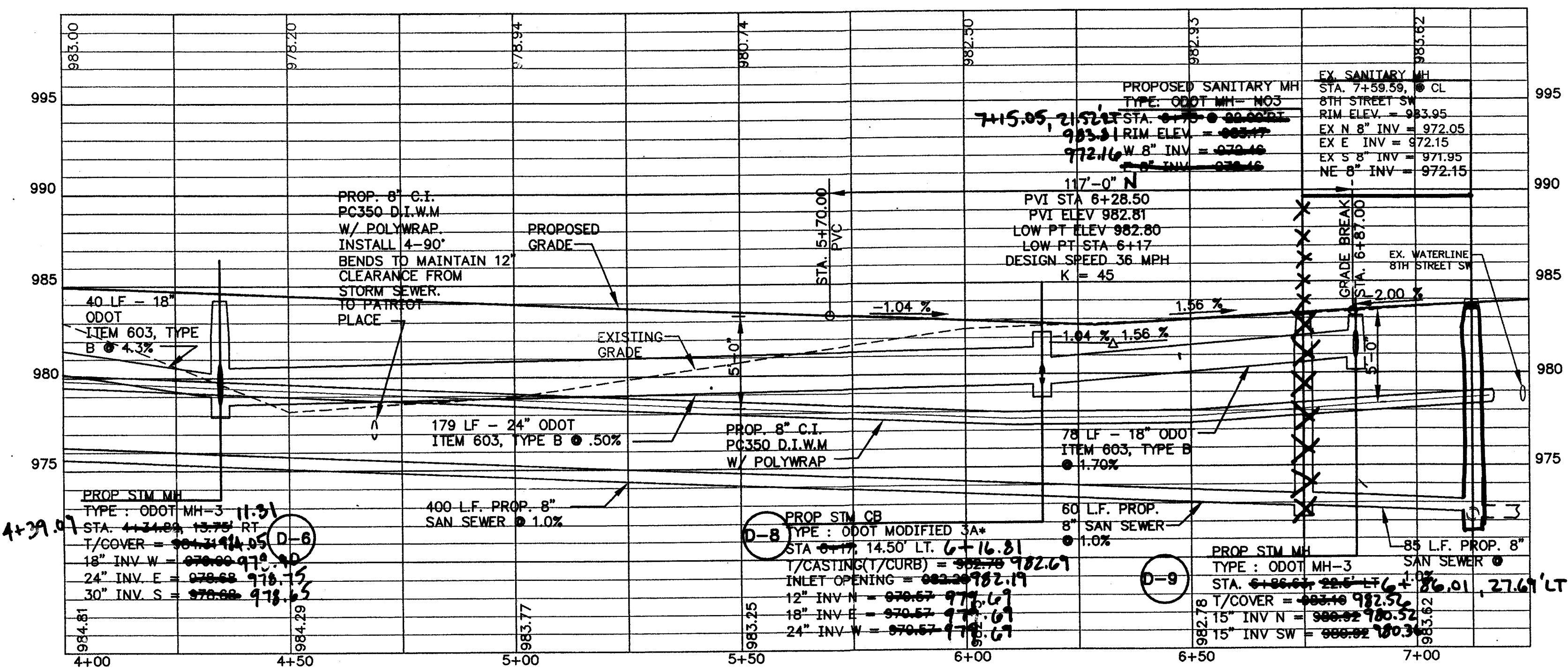
MILL AND REPLACE 1.5" UPON
CONSTRUCTION OF ALL UTILITY LATERALS
ACROSS 8TH STREET SW. BASE MAY
REMAIN EXPOSED OVER LATERALS UNTIL
RESURFACING OCCURS, IF RESURFACING
WILL OCCUR WITHIN THE FIRST
CONSTRUCTION SEASON. SEE OPEN/CUT
DETAIL FOR TRENCHING AND PAVMENT
RESTORATION.

AS BUILTS



LIBERTY COURT 50' R/W

FOR TOP OF GRATE AND INVERT ELEVATIONS FOR DRAINAGE REFERENCES D-7 SEE CROSS SECTIONS



ARCHITECTS · ENGINEERS · PLANNERS · SURVEYORS

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FAX: 330-666-2788
EMAIL: KRRV@KARLROHRER.COM

PLAN AND PROFILE SHEET LIBERTY COURT (4+50 TO 7+09)

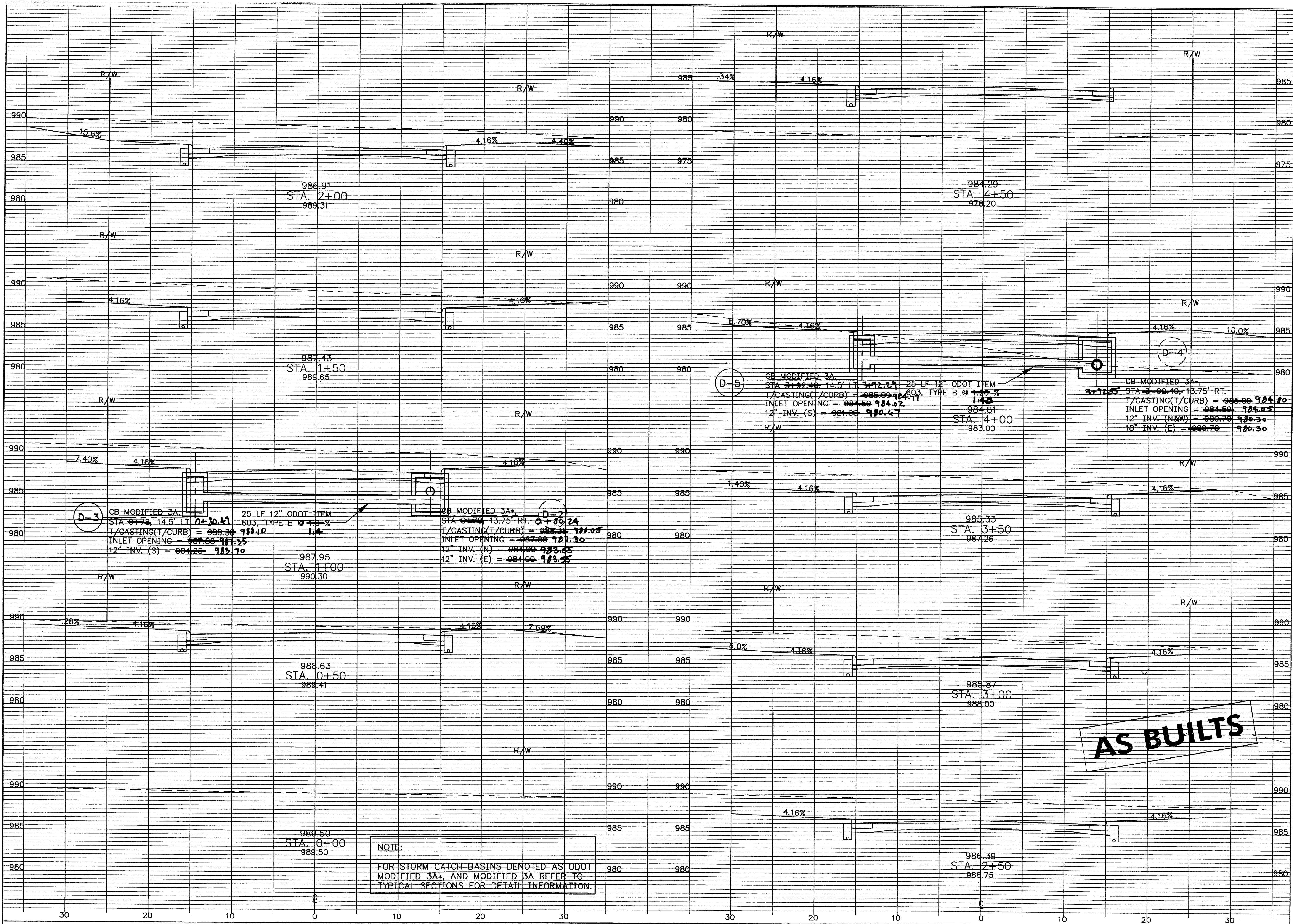
PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT

PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44846

KRRA JOB NO. K2020
DRAWN BY RGS
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SHEET NO.

8



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DATES & REVISIONS

FOR PLAT APPROVAL	6/16/01
FINAL REVIEW SET	6/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/6/02

CROSS-SECTIONS LIBERTY COURT (0+00 TO 4+50)
PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT
PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44846

KRRA JOB NO.	K2020
DRAWN BY	RGS
CHECKED BY	LDS

SHEET NO.

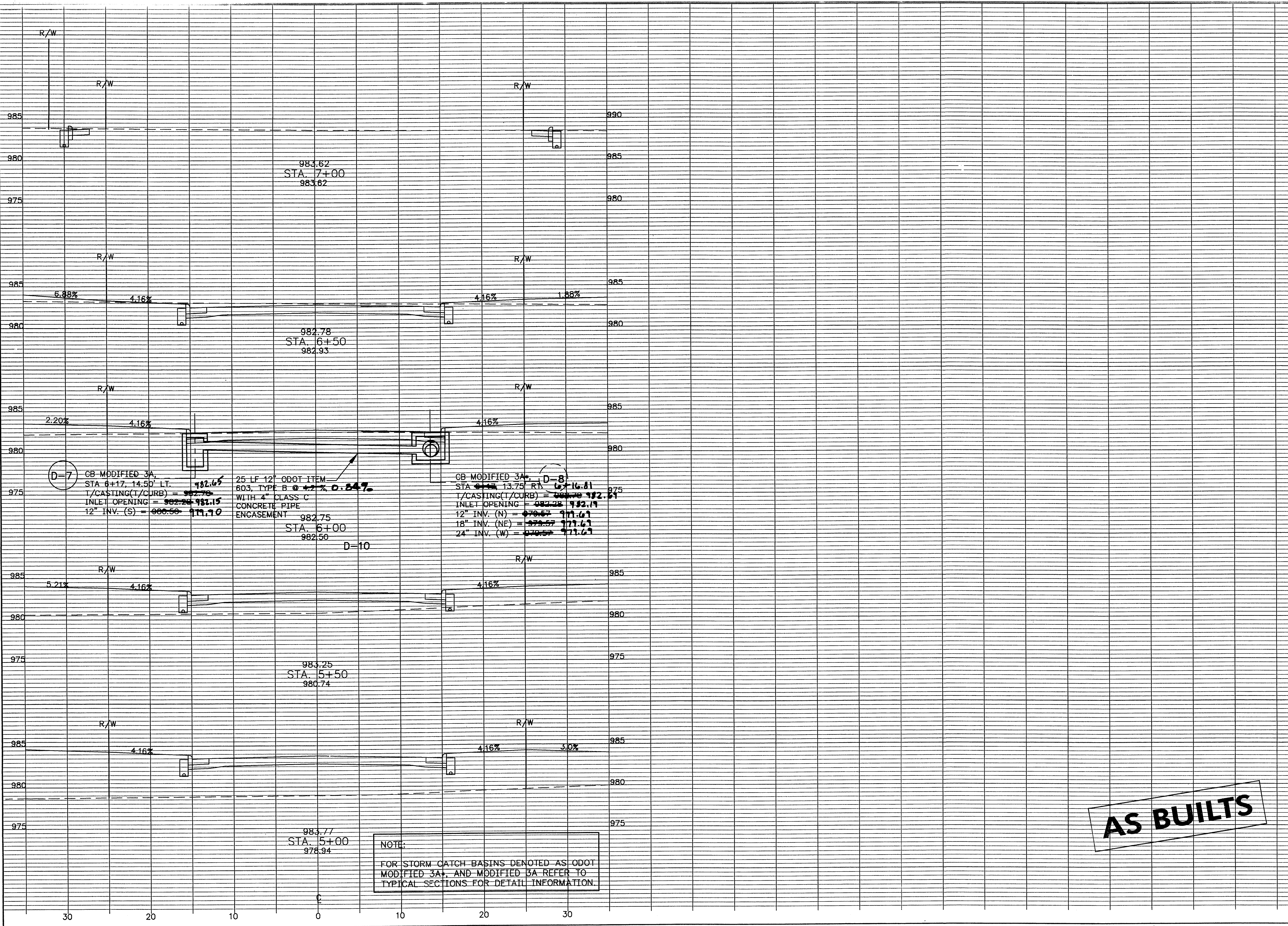
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DATES & REVISIONS	
FOR PLAT APPROVAL	01/01/01
FINAL REVIEW SET	01/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/09/02



CROSS-SECTIONS LIBERTY COURT (5+00 TO 7+00)

PROJECT NUMBER K2020

CENTENNIAL VILLAGE DEVELOPMENT

PATRIOT PLACE & LIBERTY COURT

MASSILLON, OHIO 44646

KRRA JOB NO.	K2020
DRAWN BY	RGS
CHECKED BY	LDS

SHEET NO.

10

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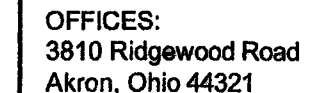
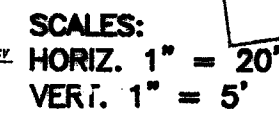
PH: 330-686-1127
FAX: 330-686-2788
EMAIL: KRRA@KARLROHRER.COM

[illegible]

PATRIOT BILLACE & LIBERTY COURT

1-

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FAX: 330-668-2788
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FOR PLAT APPROVAL	6/18/06
FINAL REVIEW SET	6/17/06
REVISED REVIEW SET	7/24/06
CONSTRUCTION SET	8/06/06

NEW W 972.80
W 972.80

CB No 306
TOP OF CASTING 980.00
N 36" RCP INV. 969.60
C 36" RCP INV. 960.60

SAN MH 305
N 8" 981.53
E 8" 972.43
SE 8" 974.33
SW 8" 972.83
W 8" 972.63

1. PROPOSED CATCH BASINS IN STREET ARE ODOT MODIFIED 3A WITH EAST JORDAN IRON MODEL 7030 WITH FISH STAMP OR APPROVED EQUAL. MODIFIED 3A CB'S SHALL HAVE A MINIMUM 12" CONCRETE BAND SURROUNDING GRATE (SEE SHT 5).

2. FOR STORM PROFILES PERPENDICULAR TO CENTERLINE SEE CROSS SECTIONS.

3. FOR STORM CATCH BASINS DENOTED AS ODOT
MODIFIED 3A*, AND MODIFIED 3A REFER TO
TYPICAL SECTIONS FOR DETAIL INFORMATION.

4. SEE SHEET 8 FOR SANITARY MANHOLE DETAIL.

LEGEND:

PROPOSED 30' DRAINAGE /
SANITARY EASEMENT

MILL & REPLACE 2" EXISTING
ASPHALT AND INSTALL BUTT
JOINT.

AS BUILT

CLARK AND BROOKS CLOSET PATRIOT BUREAU & CLOSETING CO.

PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT

**PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44646**

KRRA JOB NO.	K202
DRAWN BY	RGS
CHECKED BY	LDS

SHEET NO.

12

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FAX: 330-668-2788
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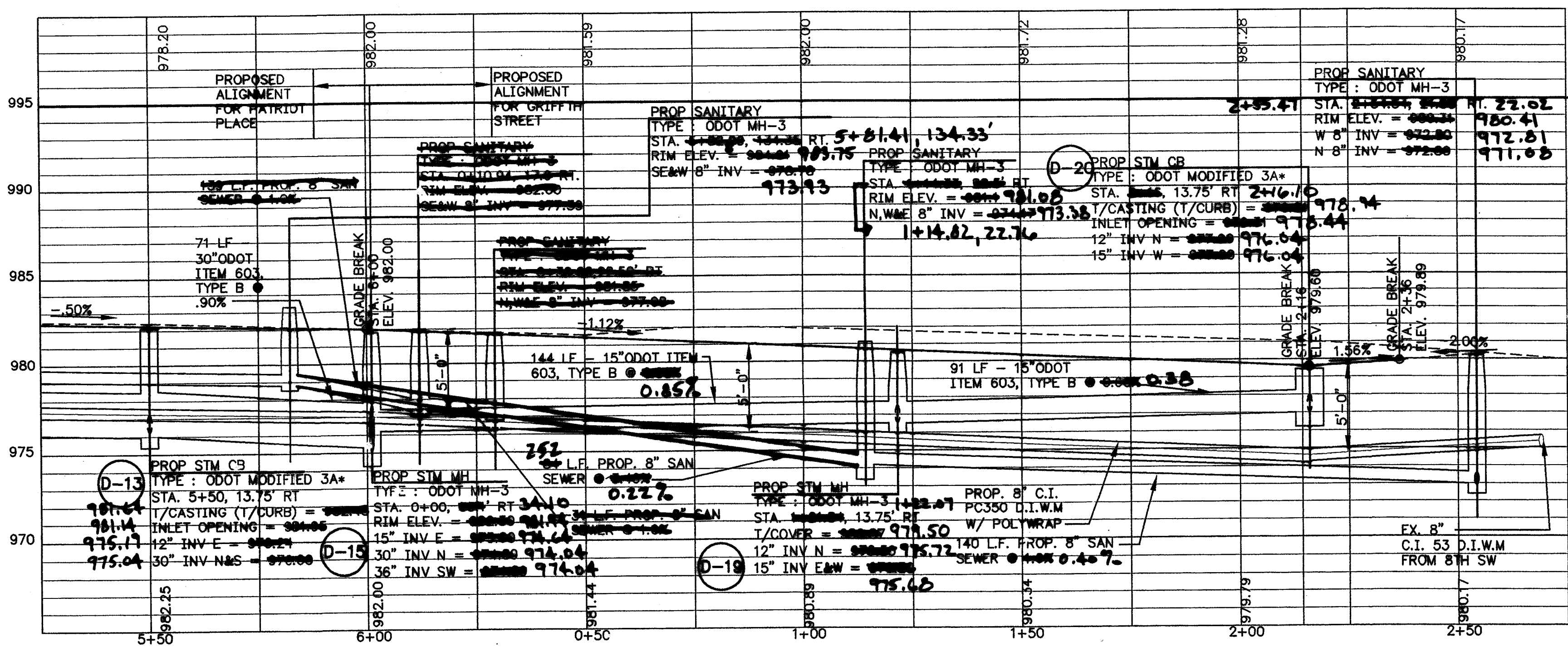
FOR YARD DRAINAGE INFORMATION SEE SHEET 16
FOR DETENTION BASIN DRAINAGE INFORMATION (DRAINAGE REFERENCES (D-16, D-17,D-18) SEE SHEET 16
FOR TOP OF GRATE AND INVERT ELEVATIONS FOR DRAINAGE REFERENCES D-21 & D-24 SEE CROSS SECTIONS
FOR LIBERTY COURT DRAINAGE INFORMATION SEE SHEETS 5&6
FOR PATRIOT PLACE DRAINAGE INFORMATION SEE SHEETS 9



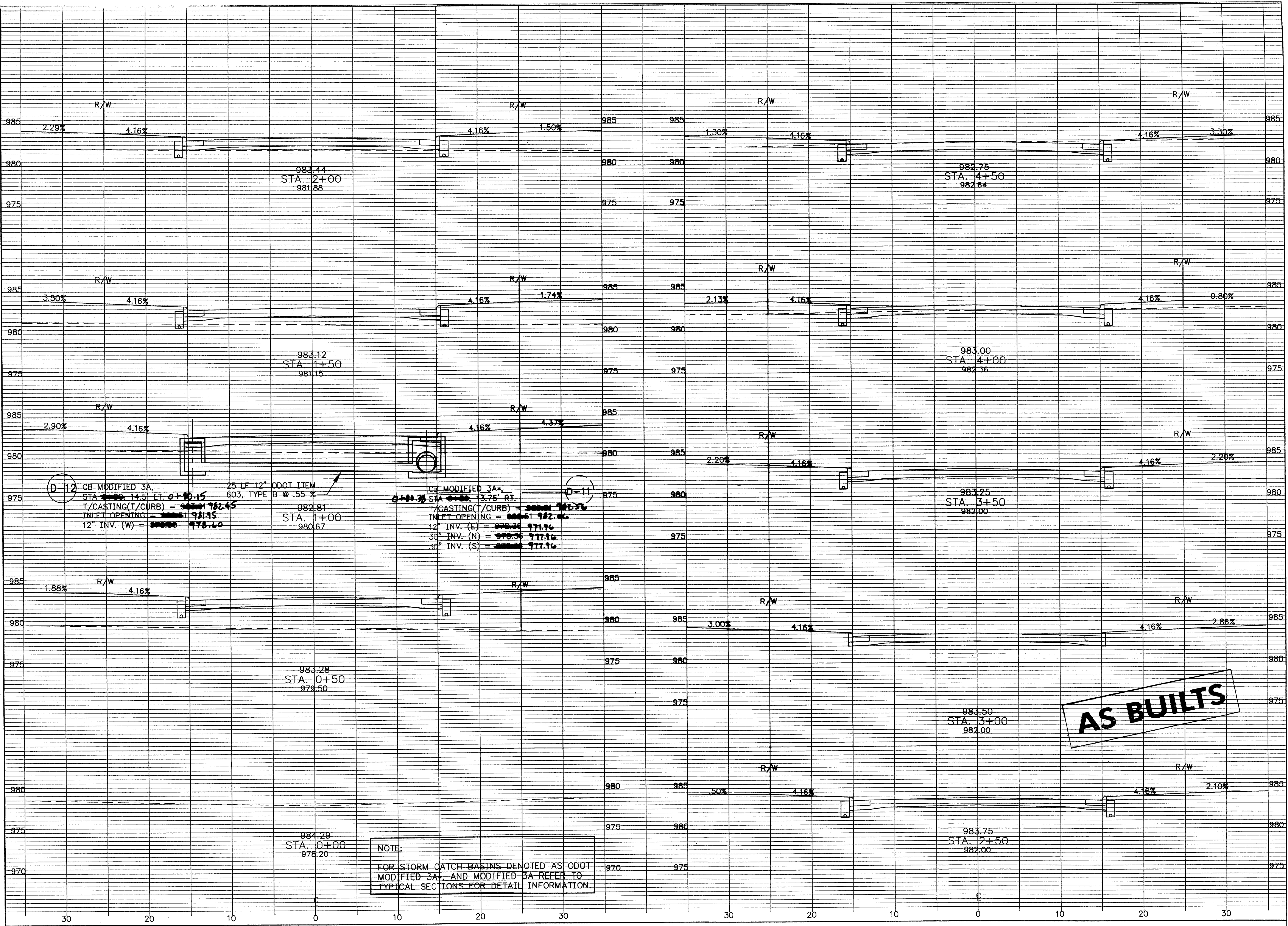
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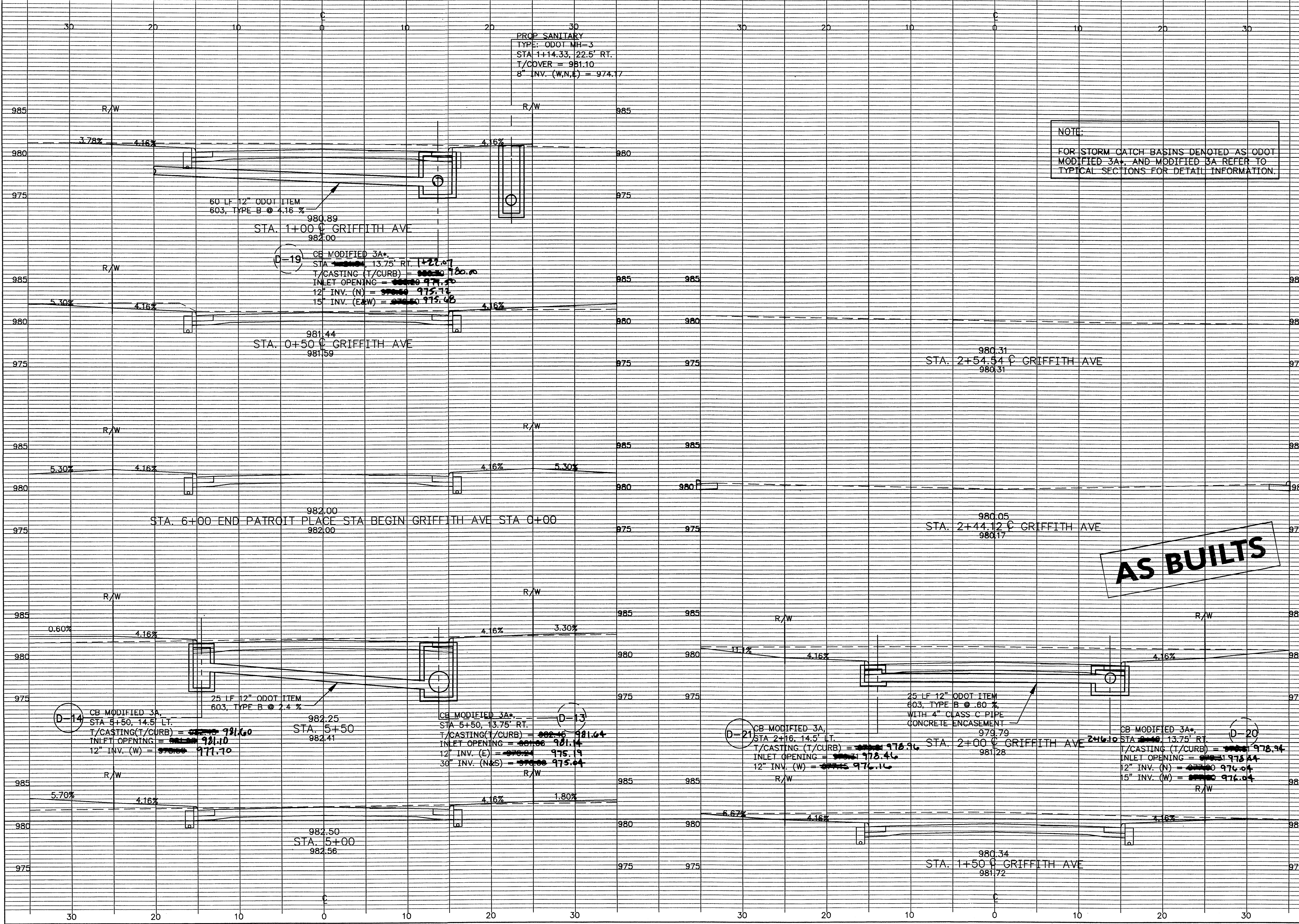
MUST BE USED WHEN WIDTH OF TRENCH IS GREATER THAN 3' AT THE SUBBASE LEVEL

CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HRS.



DATES & REVISIONS	
FOR PLAT APPROVAL	6/16/01
FINAL REVIEW SET	6/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/08/02





PROP SANITARY
TYPE: ODOT MH-3
STA 1+14.33, 22.5' RT.
T/COVER = 981.10
8" INV. (W,N,L) = 974.17

NOTE:
FOR STORM CATCH BASINS DENOTED AS ODOT
MODIFIED 3A*, AND MODIFIED 3A REFER TO
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AS BUILTS

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DATES & REVISIONS

FOR PLAT APPROVAL	8/18/01
FINAL REVIEW SET	8/17/02
REVISED REVIEW SET	7/24/02
CONSTRUCTION SET	8/08/02

CROSS-SECTIONS FOR PATRIOT PLACE AND GRIFFITH AVE.

PROJECT NUMBER K2020

CENTENNIAL VILLAGE DEVELOPMENT

PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44646

KRRA JOB NO.	K2020
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PIAN SHEET 8TH ST SW (3+00 TO 8+50)

**PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT**

**PATRIOT PLACE & LIBERTY COURT
MASSILLON, OHIO 44646**

KRRA JOB NO.	K2020
DRAWN BY	RGS
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SHEET NO.

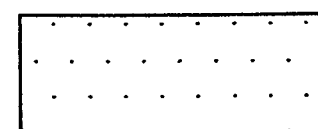
15



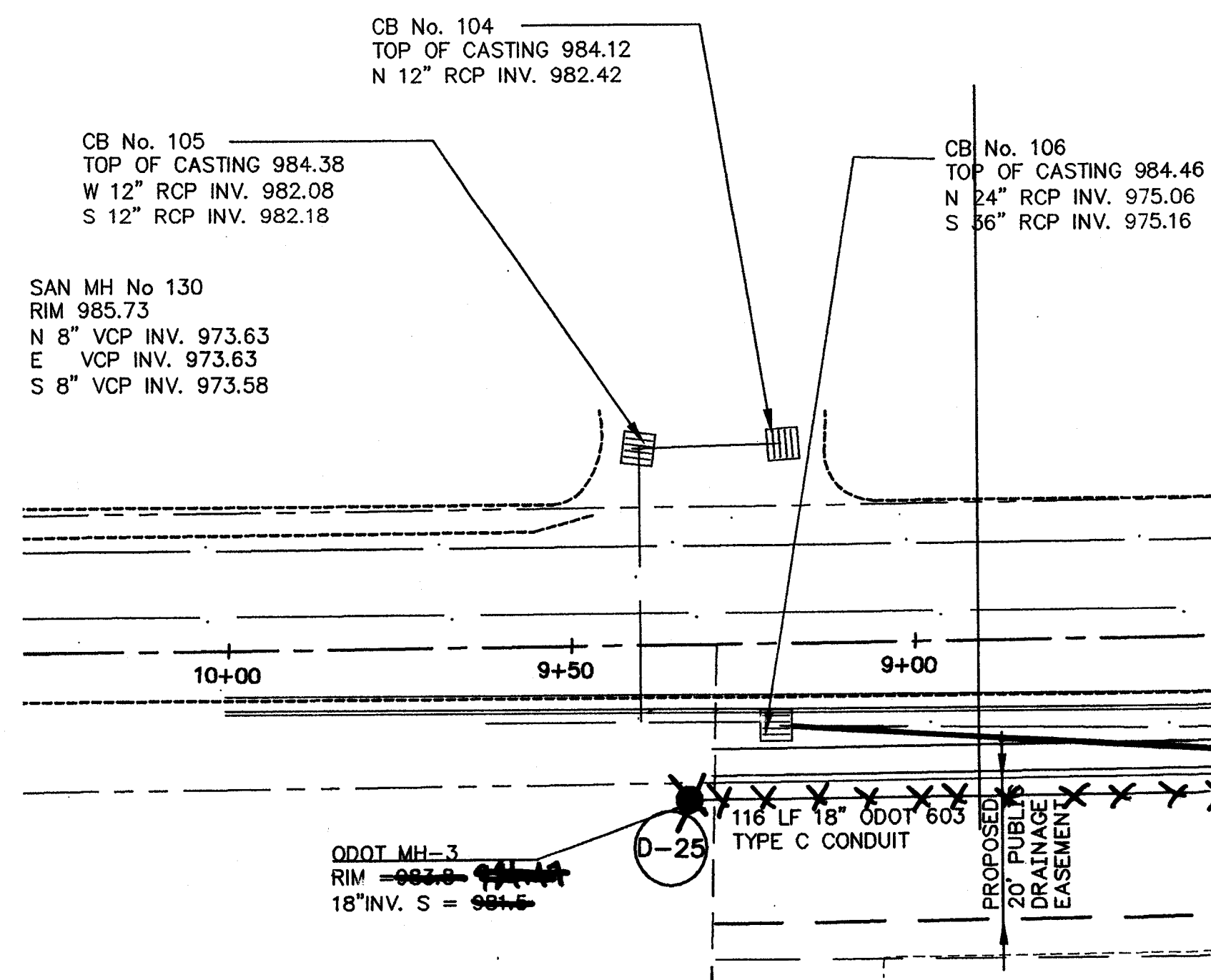
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4. REFER TO SHEET 8 FOR SANITARY MANHOLE.

LEGEND:

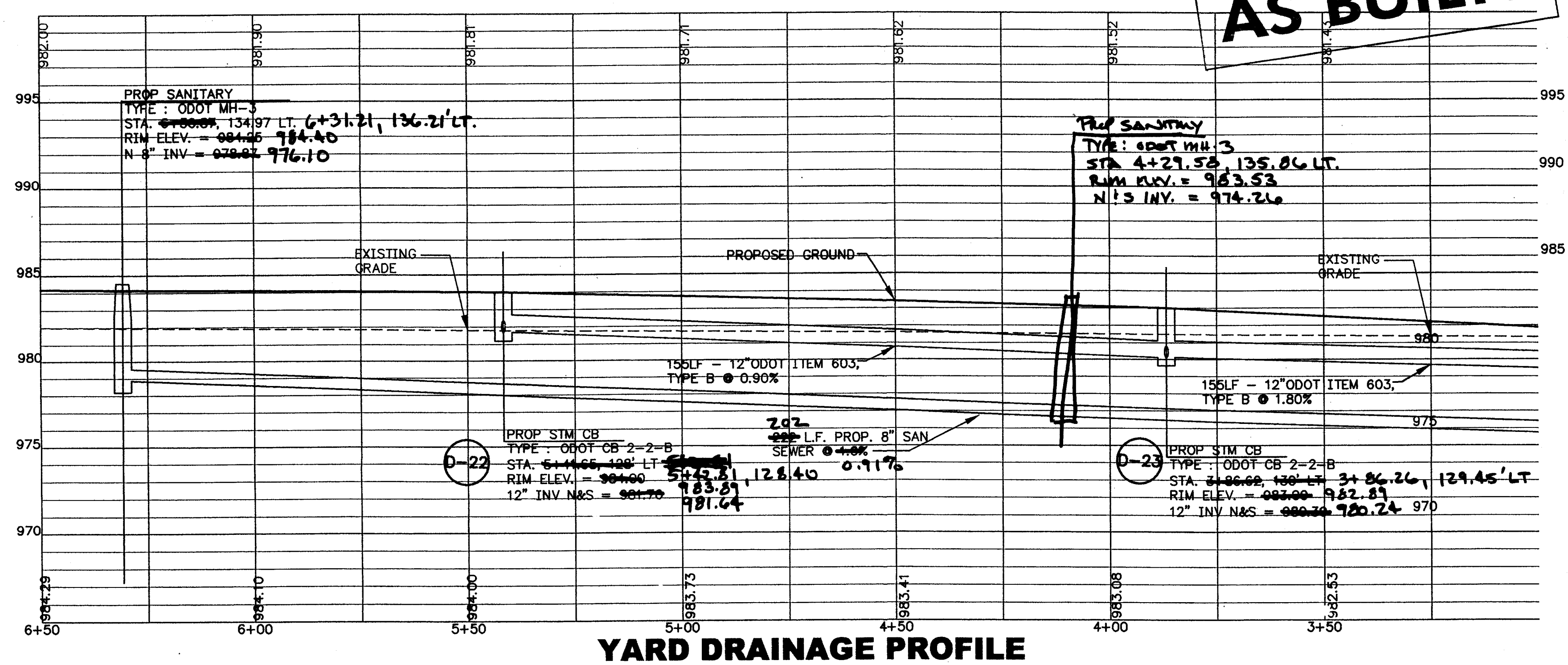
PROPOSED 30' DRAINAGE /
SANITARY EASEMENT



MILL & REPLACE 2" EXISTING
ASPHALT AND INSTALL BUTT
JOINT.



8TH STREET SW.



AS BUILTS

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EMAIL: KRRR@KARLROHRER.COM

...ucm00-massi AND DEVELOPMENTDrawingK2020GPE.dwg, 08/30/2022 01:54

[illegible]

1. *Chlorophyll a* (Chl *a*)

2. *Chlorophyll b* (Chl *b*)

3. *Carotenoids* (Car)

4. *Phaeophytin a* (Phe *a*)

5. *Phaeophytin b* (Phe *b*)

6. *Phaeoerythrin* (Phe *e*)

7. *Phaeoxanthophyll* (Phe *x*)

8. *Phaeo-*fucoxanthin** (Phe *f*)

9. *Phaeo-*peridinin** (Phe *p*)

10. *Phaeo-*zeaxanthin** (Phe *z*)

11. *Phaeo-*violaxanthin** (Phe *v*)

12. *Phaeo-*antheraxanthin** (Phe *a*)

13. *Phaeo-*zeaxanthin** (Phe *z*)

14. *Phaeo-*violaxanthin** (Phe *v*)

15. *Phaeo-*antheraxanthin** (Phe *a*)

16. *Phaeo-*zeaxanthin** (Phe *z*)

17. *Phaeo-*violaxanthin** (Phe *v*)

18. *Phaeo-*antheraxanthin** (Phe *a*)

19. *Phaeo-*zeaxanthin** (Phe *z*)

20. *Phaeo-*violaxanthin** (Phe *v*)

21. *Phaeo-*antheraxanthin** (Phe *a*)

22. *Phaeo-*zeaxanthin** (Phe *z*)

23. *Phaeo-*violaxanthin** (Phe *v*)

24. *Phaeo-*antheraxanthin** (Phe *a*)

25. *Phaeo-*zeaxanthin** (Phe *z*)

26. *Phaeo-*violaxanthin** (Phe *v*)

27. *Phaeo-*antheraxanthin** (Phe *a*)

28. *Phaeo-*zeaxanthin** (Phe *z*)

29. *Phaeo-*violaxanthin** (Phe *v*)

30. *Phaeo-*antheraxanthin** (Phe *a*)

31. *Phaeo-*zeaxanthin** (Phe *z*)

32. *Phaeo-*violaxanthin** (Phe *v*)

33. *Phaeo-*antheraxanthin** (Phe *a*)

34. *Phaeo-*zeaxanthin** (Phe *z*)

35. *Phaeo-*violaxanthin** (Phe *v*)

36. *Phaeo-*antheraxanthin** (Phe *a*)

37. *Phaeo-*zeaxanthin** (Phe *z*)

38. *Phaeo-*violaxanthin** (Phe *v*)

39. *Phaeo-*antheraxanthin** (Phe *a*)

40. *Phaeo-*zeaxanthin** (Phe *z*)

41. *Phaeo-*violaxanthin** (Phe *v*)

42. *Phaeo-*antheraxanthin** (Phe *a*)

43. *Phaeo-*zeaxanthin** (Phe *z*)

44. *Phaeo-*violaxanthin** (Phe *v*)

45. *Phaeo-*antheraxanthin** (Phe *a*)

46. *Phaeo-*zeaxanthin** (Phe *z*)

47. *Phaeo-*violaxanthin** (Phe *v*)

48. *Phaeo-*antheraxanthin** (Phe *a*)

49. *Phaeo-*zeaxanthin** (Phe *z*)

50. *Phaeo-*violaxanthin** (Phe *v*)

51. *Phaeo-*antheraxanthin** (Phe *a*)

52. *Phaeo-*zeaxanthin** (Phe *z*)

53. *Phaeo-*violaxanthin** (Phe *v*)

54. *Phaeo-*antheraxanthin** (Phe *a*)

55. *Phaeo-*zeaxanthin** (Phe *z*)

56. *Phaeo-*violaxanthin** (Phe *v*)

57. *Phaeo-*antheraxanthin** (Phe *a*)

58. *Phaeo-*zeaxanthin** (Phe *z*)

59. *Phaeo-*violaxanthin** (Phe *v*)

60. *Phaeo-*antheraxanthin** (Phe *a*)

61. *Phaeo-*zeaxanthin** (Phe *z*)

62. *Phaeo-*violaxanthin** (Phe *v*)

63. *Phaeo-*antheraxanthin** (Phe *a*)

64. *Phaeo-*zeaxanthin** (Phe *z*)

65. *Phaeo-*violaxanthin** (Phe *v*)

66. *Phaeo-*antheraxanthin** (Phe *a*)

67. *Phaeo-*zeaxanthin** (Phe *z*)

68. *Phaeo-*violaxanthin** (Phe *v*)

69. *Phaeo-*antheraxanthin** (Phe *a*)

70. *Phaeo-*zeaxanthin** (Phe *z*)

71. *Phaeo-*violaxanthin** (Phe *v*)

72. *Phaeo-*antheraxanthin** (Phe *a*)

73. *Phaeo-*zeaxanthin** (Phe *z*)

74. *Phaeo-*violaxanthin** (Phe *v*)

75. *Phaeo-*antheraxanthin** (Phe *a*)

76. *Phaeo-*zeaxanthin** (Phe *z*)

77. *Phaeo-*violaxanthin** (Phe *v*)

78. *Phaeo-*antheraxanthin** (Phe *a*)

79. *Phaeo-*zeaxanthin** (Phe *z*)

80. *Phaeo-*violaxanthin** (Phe *v*)

81. *Phaeo-*antheraxanthin** (Phe *a*)

82. *Phaeo-*zeaxanthin** (Phe *z*)

83. *Phaeo-*violaxanthin** (Phe *v*)

84. *Phaeo-*antheraxanthin** (Phe *a*)

85. *Phaeo-*zeaxanthin** (Phe *z*)

86. *Phaeo-*violaxanthin** (Phe *v*)

87. *Phaeo-*antheraxanthin** (Phe *a*)

88. *Phaeo-*zeaxanthin** (Phe *z*)

89. *Phaeo-*violaxanthin** (Phe *v*)

90. *Phaeo-*antheraxanthin** (Phe *a*)

91. *Phaeo-*zeaxanthin** (Phe *z*)

92. *Phaeo-*violaxanthin** (Phe *v*)

93. *Phaeo-*antheraxanthin** (Phe *a*)

94. *Phaeo-*zeaxanthin** (Phe *z*)

95. *Phaeo-*violaxanthin** (Phe *v*)

96. *Phaeo-*antheraxanthin** (Phe *a*)

97. *Phaeo-*zeaxanthin** (Phe *z*)

98. *Phaeo-*violaxanthin** (Phe *v*)

99. *Phaeo-*antheraxanthin** (Phe *a*)

100. *Phaeo-*zeaxanthin** (Phe *z*)

101. *Phaeo-*violaxanthin** (Phe *v*)

102. *Phaeo-*antheraxanthin** (Phe *a*)

103. *Phaeo-*zeaxanthin** (Phe *z*)

104. *Phaeo-*violaxanthin** (Phe *v*)

105. *Phaeo-*antheraxanthin** (Phe *a*)

106. *Phaeo-*zeaxanthin** (Phe *z*)

107. *Phaeo-*violaxanthin** (Phe *v*)

108. *Phaeo-*antheraxanthin** (Phe *a*)

109. *Phaeo-*zeaxanthin** (Phe *z*)

110. *Phaeo-*violaxanthin** (Phe *v*)

111. *Phaeo-*antheraxanthin** (Phe *a*)

112. *Phaeo-*zeaxanthin** (Phe *z*)

113. *Phaeo-*violaxanthin** (Phe *v*)

114. *Phaeo-*

(c)	
NT	
T	

PLAN SHEET 8TH STREET SW (0+00 TO 3+00)
PROJECT NUMBER K2020
CENTENNIAL VILLAGE DEVELOPMENT
PATRIOT PLACE & LIBERTY COURTHOUSE
MASSILLON , OHIO 44646

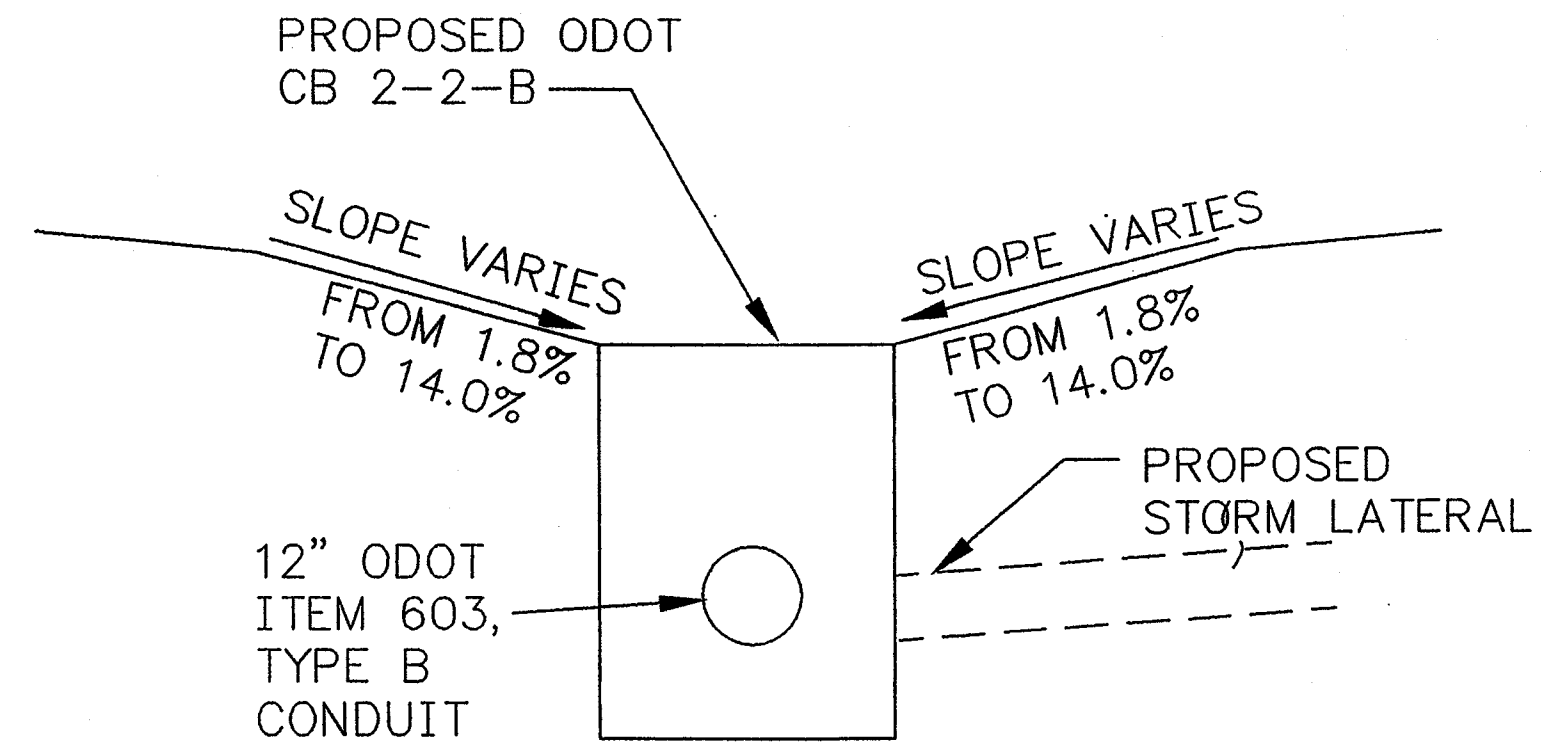
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KRRA JOB NO.	K2020
DRAWN BY	RGS
CHECKED BY	LDS

SHEET NO.	
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PH: 330-666-1127
FAX: 330-668-2788
EMAIL: KRRA@KARLROHRER.COM



NTS

DEPTH OF SWALE VARIES AS PER GRADING ON SHEET 4. CONTRACTOR SHALL ENSURE THAT SWALE IS CONSTRUCTED IN SUCH A MANNER AS TO PREVENT STORMWATER RUNOFF BEYOND THE LIMITS OF THE PROPOSED SWALE INTO SURROUNDING BACKYARDS.

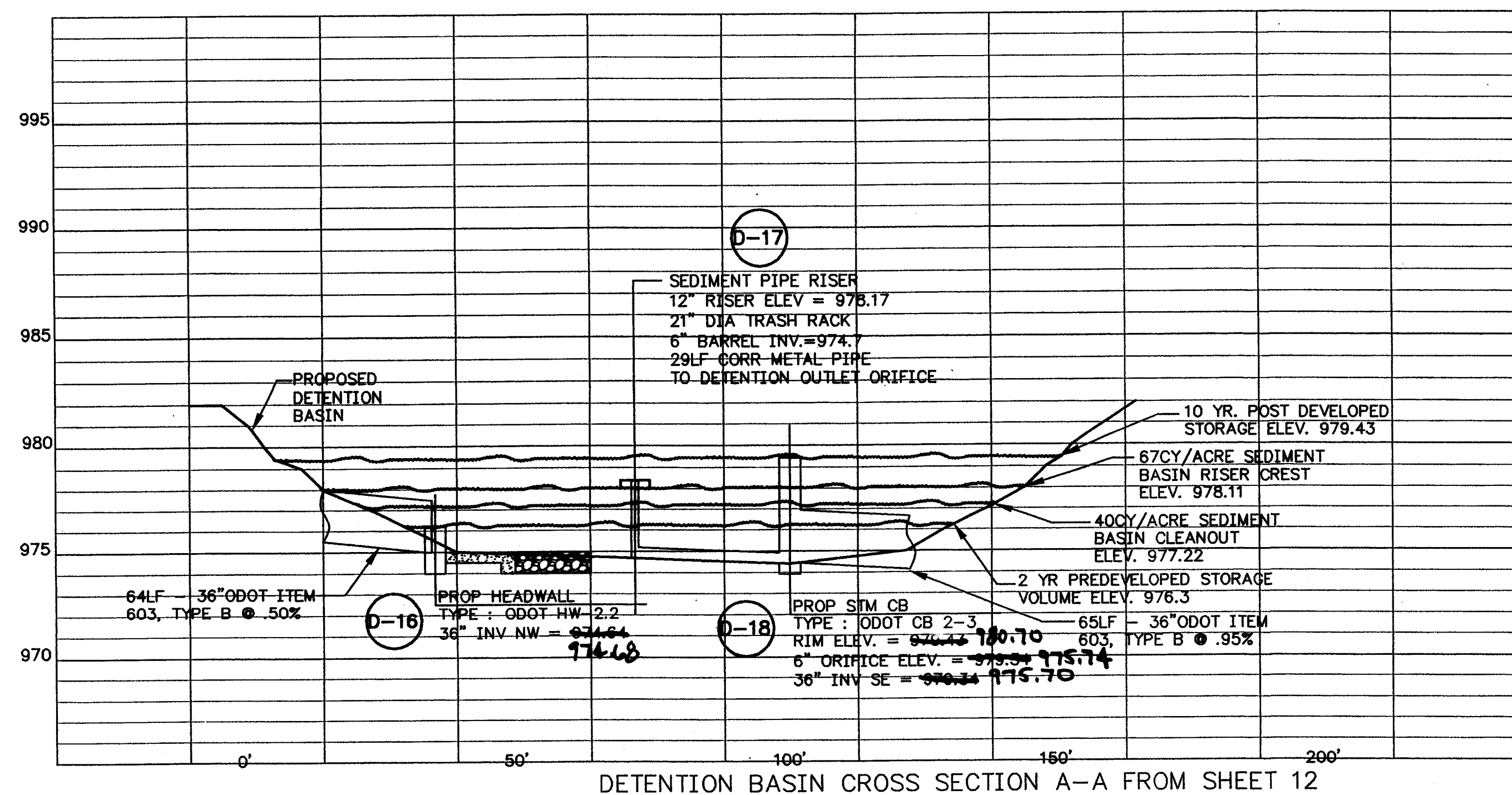
1. PROPOSED CATCH BASINS IN STREET ARE ODOT MODIFIED 3A WITH EAST JORDAN IRON MODEL 7030 WITH FISH STAMP OR APPROVED EQUAL. MODIFIED 3A CB'S SHALL HAVE A MINIMUM 12" CONCRETE BAND SURROUNDING GRATE (SEE SHT 5).

3. FOR STORM CATCH BASINS DENOTED AS ODOT MODIFIED 3A*, AND MODIFIED 3A REFER TO TYPICAL SECTIONS FOR DETAIL INFORMATION.

LEGEND:

[illegible]

AS BUILTS



DETENTION BASIN CROSS SECTION A-A FROM SHEET 12

ARCHITECTS · ENGINEERS · PLANNERS · SURVEYORS

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