

MATERIAL SPECIFICATIONS REFER TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS IN EFFECT AT THE TIME OF APPROVAL BY THE ALLEN COUNTY COMMISSIONERS.

STANDARD CONSTRUCTION DRAWINGS

OFFICE OF THE COUNTY ENGINEER

ALLEN COUNTY, OHIO

BRION E. RHODES, P.E., P.S. COUNTY ENGINEER

REVISIONS			ALLEN COUNTY, OHIO
NO.	DATE 05-16-16	BY ZJG	COUNTY ENGINEER
2	03-16-16	ZJG	ALLEN COUNTY
			STANDARD CONSTRUCTION DRAWINGS
			COVER SHEET
			STANDARD CONSTRUCTION DRAWINGS COVER
		\vdash	DRAWN BY: Z.I.G. APPROVED BY: B. E. RHODES

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BRION E. RHODES, P.E., P.S., COUNTY ENGINEER

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PAVEMENT - REPLACEMENT ABOVE ROAD CUTS

ROADSIDE TILE AND CATCH BASIN TAP STANDARDS

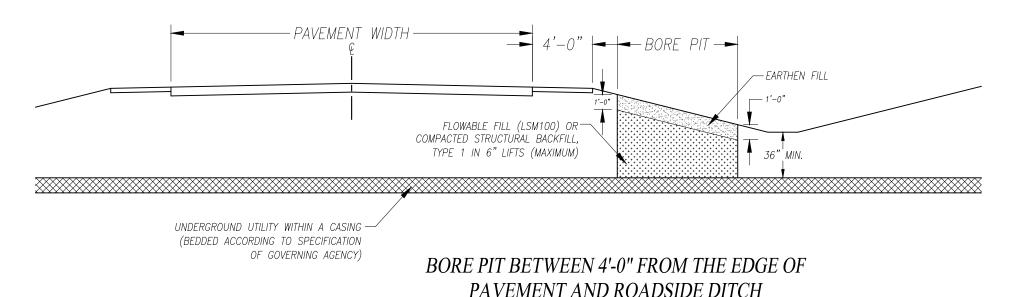
RC-1

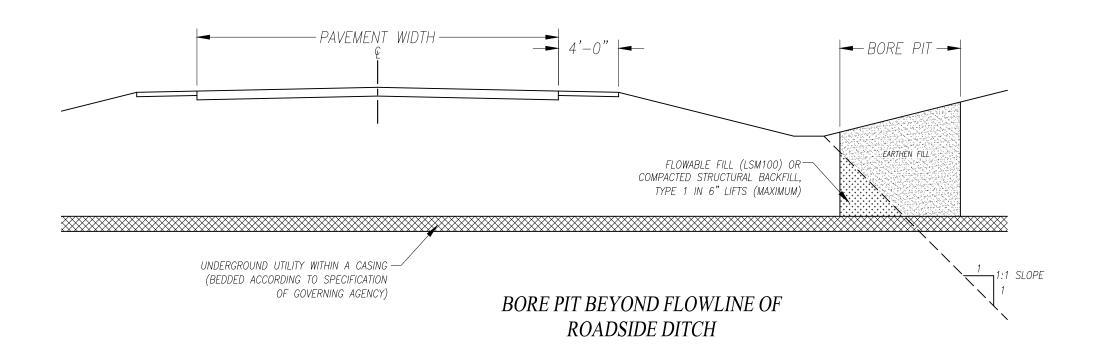
TAP-TY & CB

REVISIONS
ALLEN COUNTY, OHIO

OUT OF THE PROPERTY OF THE PROPE

BACKFILL OF BORE PITS

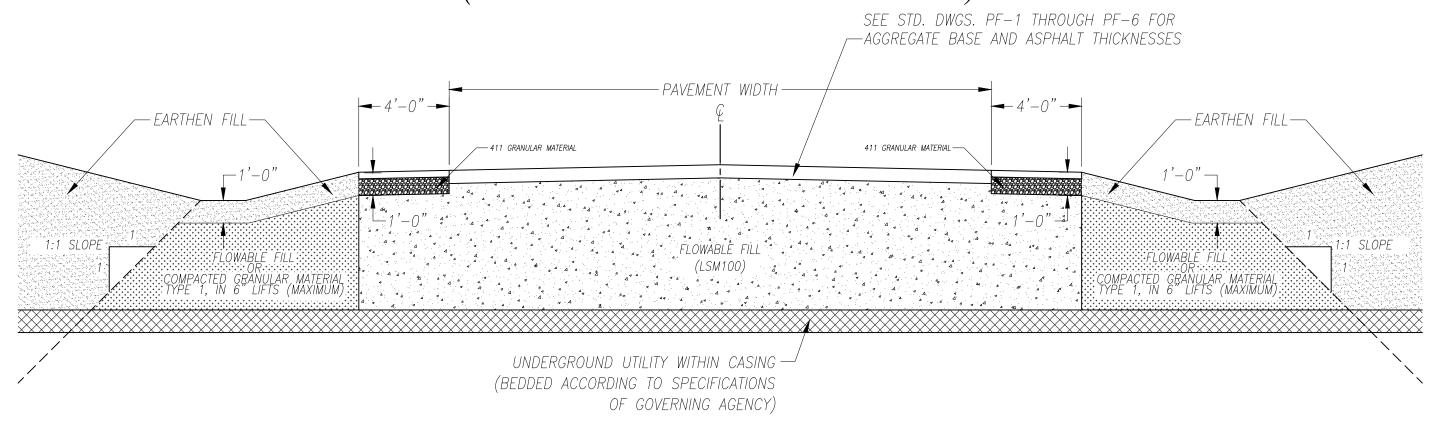




- 1. ANY UTILITY PLACED UNDER THE ROADWAY SHALL BE WITHIN A CASING APPROVED BY THE ALLEN COUNTY ENGINEER AND THE RESPECTIVE UTILITY.
- 2. ALL UTILITIES PLACED UNDER THE ROADWAY SHALL BE A MINIMUM OF 36" BELOW THE SURFACE OF THE GROUND AT THE DITCH FLOW LINE.
- 3. BORE PITS SHALL BE A MINIMUM OF 4'-0" FROM THE EDGE OF PAVEMENT.
- 4. ANY BORE PIT BETWEEN 4'-0" OF THE EDGE OF PAVEMENT AND THE BACK OF THE FLOWLINE OF THE ROADSIDE DITCH SHALL BE BACKFILLED TO WITHIN 1'-0" OF THE GROUND SURFACE WITH FLOWABLE FILL (LSM100) OR COMPACTED STRUCTURAL BACKFILL, TYPE 1 IN 6" LIFTS (MAXIMUM).
- 5. ANY BORE PIT BEYOND THE BACK OF THE FLOWLINE OF THE ROADSIDE DITCH SHALL BE BACKFILLED AT A 1:1 SLOPE WITH FLOWABLE FILL (LSM100) OR COMPACTED STRUCTURAL BACKFILL, TYPE 1 IN 6" LIFTS (MAXIMUM).
- 6. SEE ALLEN COUNTY STANDARD
 CONSTRUCTION DRAWING LUI—1 FOR
 ADDITIONAL DETAILS.

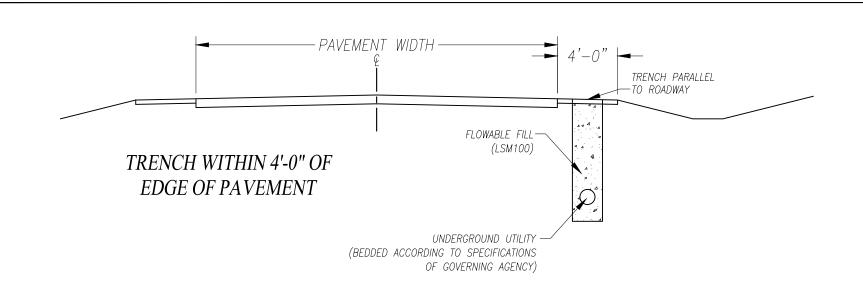
	REVISION	S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
2	9-21-00 10-5-06	BER RJM	BACKFILL
3	1-16-13	RJM	OF
4	5-19-16	ZJG	
5	1-01-23	ZJG	BORE PITS
			STANDARD CONSTRUCTION DRAWING BFB-1
		_	DDAWNDV: 71C ADDDOVED DV: D E DUODES

BACKFILL OF TRENCHES CROSSING ROADWAYS (EMERGENCY SITUATIONS ONLY)

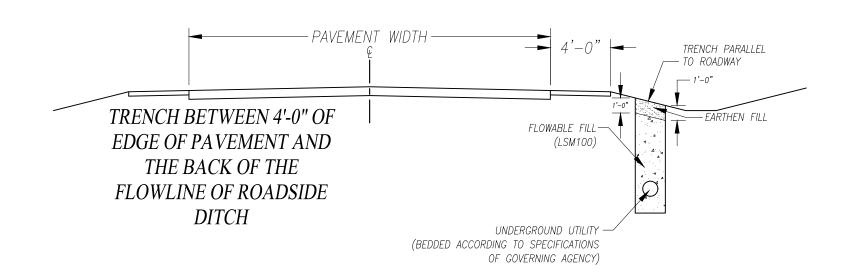


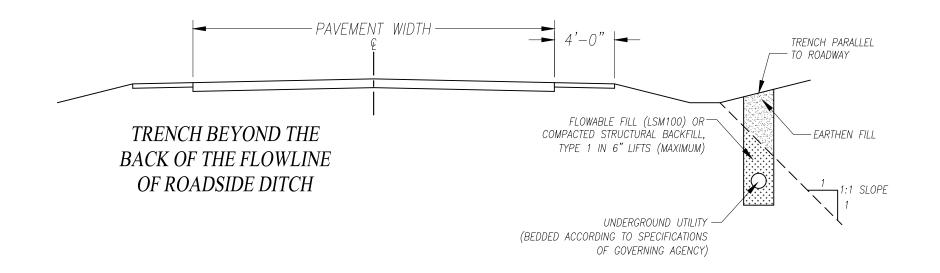
- 1. A COUNTY ROAD MAY ONLY BE CUT IN EMERGENCY SITUATIONS AND THE UTILITY/CONTRACTOR MUST GET PRE-APPROVAL FROM THE ALLEN COUNTY ENGINEER.
- 2. ANY TRENCH WITHIN THE PAVEMENT SHALL BE BACKFILLED TO THE BOTTOM OF THE ASPHALT, A MINIMUM OF SIX INCHES (6") BELOW TOP OF PAVEMENT, WITH FLOWABLE FILL (LSM100).
- 3. ANY TRENCH BETWEEN THE EDGE OF PAVEMENT AND 4'-0" OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO WITHIN 1'-0" OF THE GROUND SURFACE WITH FLOWABLE FILL (LSM100).
- 4. ANY TRENCH BETWEEN 4'-0" OF THE EDGE OF PAVEMENT AND THE BACK OF THE FLOWLINE OF THE ROADSIDE DITCH SHALL BE BACKFILLED TO WITHIN 1'-0" OF THE GROUND SURFACE WITH FLOWABLE FILL (LSM100) OR COMPACTED GRANULAR BACKFILL, TYPE 1 IN 6" LIFTS (MAXIMUM).
- 5. ANY TRENCH BEYOND THE FLOWLINE OF THE BACK OF THE ROADSIDE DITCH SHALL BE BACKFILLED AT A 1:1 SLOPE WITH FLOWABLE FILL (LSM100) OR COMPACTED STRUCTURAL BACKFILL, TYPE 1 IN 6" LIFTS (MAXIMUM).
- 6. SEE ALLEN COUNTY STANDARD CONSTRUCTION DRAWINGS LUI-1 AND RC-1 FOR ADDITIONAL DETAILS.

REVISIONS			ALLEN COUNTY, OHIO	
NO.	DATE	BY	COUNTY ENGINEER	
1	9-21-00	BER	BACKFILL	
2	10-5-06	RJM		
3	1-16-13	RJM	OF	
4	5-19-16	ZJG	TRENCHES CROSSING	
5	01-01-23	ZJG	ROADWAYS	
			110112 11112	
			STANDARD CONSTRUCTION DRAWING BFT-1	
			DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES	



BACKFILL OF TRENCHES PARALLEL TO ROADWAYS

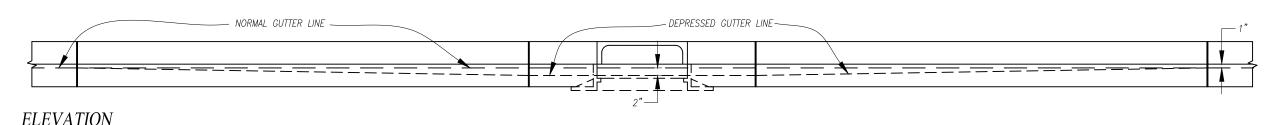




- 1. ANY TRENCH WITHIN 4'-0" OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED COMPLETELY WITH FLOWABLE FILL (LSM100) AS DIRECTED BY THE ALLEN COUNTY ENGINEER AND/OR ALLEN COUNTY ENGINEER'S INSPECTOR.
- 2. ANY TRENCH BETWEEN 4'-0" OF THE EDGE OF PAVEMENT AND THE BACK OF THE FLOWLINE OF THE ROADSIDE DITCH SHALL BE BACKFILLED TO WITHIN 1'-0" OF THE GROUND SURFACE WITH FLOWABLE FILL (LSM100)
- 3. ANY TRENCH BEYOND THE BACK OF THE FLOWLINE OF THE ROADSIDE DITCH SHALL BE BACKFILLED AT A 1:1 SLOPE WITH FLOWABLE FILL (LSM100) OR COMPACTED STRUCTURAL BACKFILL, TYPE 1 IN 6" LIFTS (MAXIMUM).
- 4. THE AREA AROUND CATCH BASINS AND MANHOLES SHALL BE BACKFILLED ACCORDING TO NOTES 1 3 ABOVE.
- 5. SEE ALLEN COUNTY STANDARD CONSTRUCTION DRAWING LUI-1 FOR ADDITIONAL DETAILS.

REVISIONS		S	ALLEN COUNTY, OHIO	
NO.	DATE	BY	COUNTY ENGINEER	
1	9-21-00	BER	BACKFILL	
2	10-5-06	RJM	OF	
3	1-16-13	RJM	01	
4	5-19-16 01-01-23	ZJG ZJG	TRENCHES PARALLEL	
3	01-01-23	ZJG	TO ROADWAYS	
			STANDARD CONSTRUCTION DRAWING BFT-2	
			DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES	

DEPRESSED GUTTER AT CATCH BASINS



10'-0" VARIABLE SLOPE 10'-0"

NOTES

<u>GENERAL</u> — THE DESIGN SHOWN ON THIS DRAWING IS FOR PRECAST CONCRETE OR SOLID CONCRETE BLOCK.

WALL THICKNESS FOR PRECAST CONCRETE SHALL BE 6" AND WALL THICKNESS FOR SOLID CONCRETE BLOCK SHALL BE 8".

<u>CASTINGS</u> — CASTINGS SHALL BE MADE IN ACCORDANCE WITH ASTM STANDARDS AND SHALL BE GIVEN ONE COAT OF ASPHALTIC PAINT. ALL CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. THE GRATE SHALL FIT IN ITS FRAME WITHOUT ROCKING. ALL GRATES SHALL HAVE A MINIMUM OPENING AREA OF 130 SQ. INCHES, NOT INCLUDING CURB OPENING.

<u>TYPE OF CASTING</u> — CASTINGS SHALL BE A NEENAH OR EAST JORDAN THAT IS APPROVED BY THE ALLEN COUNTY ENGINEER'S OFFICE WITH A BICYCLE SAFE GRATE.

<u>SETTING OF CASTING</u> — THE BASE OF THE FRAME SHALL BE SET IN A FULL BED OF PORTLAND CEMENT MORTAR AND SO ADJUSTED TO CONFORM TO THE FINISHED PAVEMENT OR DITCH GRADE.

<u>CONCRETE</u> – CONCRETE SHALL BE CLASS "QC1".

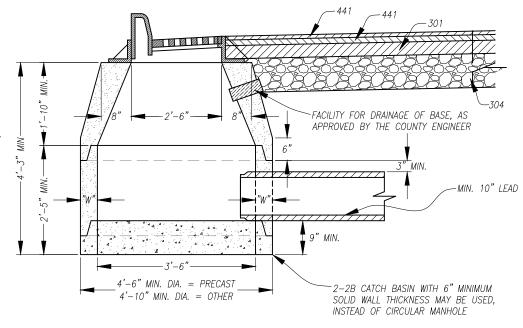
PLAN

<u>CATCH BASIN SPACING</u> — CATCH BASIN SPACING SHALL BE 500 FEET MAXIMUM OR AS REQUIRED TO MEET ANY DRAINAGE REQUIREMENTS OR OTHER REGULATORY REQUIREMENTS.

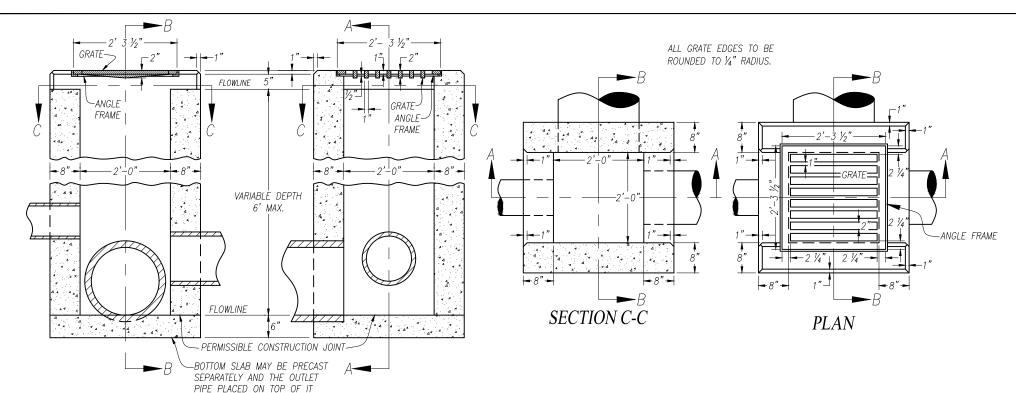
ALL CASTINGS SHALL HAVE ADJUSTABLE CURB BOX WITH ONLY ONE OPENING.

CATCH BASIN DETAILS

"W" = 6" FOR PRECAST CONCRETE MANHOLE "W" = 8" FOR SOLID CONCRETE BLOCK MANHOLE



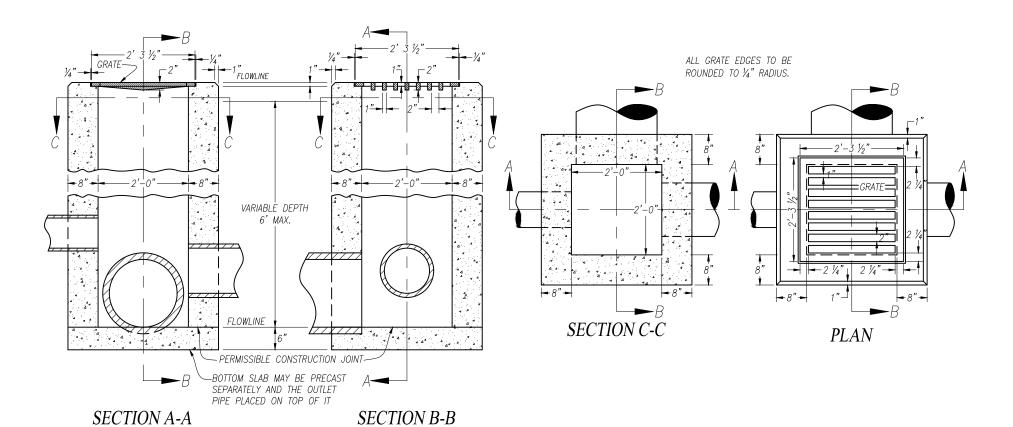
REVISIONS		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	6-2-76	TJP	COULT ETONIEE
2	6-5-79	TJP	CATCHDACIN
3	10-5-06	RJM	CATCH BASIN
4	1-16-13	RJM	DETAILS
5	5-12-16	ZJG	DETAILS
6	01-01-23	ZJG	amilia in a conferencia de la conferencia del la conferencia del la conferencia de la conferencia del la conferencia de la conferencia del la c
			STANDARD CONSTRUCTION DRAWING CB-1
			DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES



STANDARD No. 2-2A CATCH BASIN

SECTION B-B

SECTION A-A



<u>NOTES</u>

<u>PRECAST CATCH BASINS</u> — SHALL BE APPROVED BY THE COUNTY ENGINEER ON A PER APPLICATION BASIS.

GRATING AND FRAME — SHALL BE NEENAH OR EAST JORDAN THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER.

THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.

WEIGHT OF GRATE = 120 lbs. (MINIMUM) WEIGHT OF FRAME = 40 lbs. (MINIMUM)

CONCRETE - CAST IN PLACE TO BE CLASS "QC1".

<u>CONCRETE BLOCK</u> — SIDE WALLS, WHEN USED IN PLACE OF CONCRETE, SHALL BE 8 INCHES NOMINAL THICKNESS. WHEN CONCRETE BLOCKS ARE USED, THE WALLS OF THE CATCH BASIN ABOVE THE FLOW LINE OF THE SIDE OPENING SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.

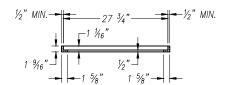
<u>2-2A SIDE INLETS</u> - TO BE PLACED 4 TO 6 INCHES BELOW NORMAL ELEVATIONS OF MEDIAN OR DITCH FLOW LINE AND RETURNING TO NORMAL 10 FEET EACH SIDE OF BASIN.

<u>2-2B GRATE</u> - ELEVATION TO BE PLACED 4 TO 6 INCHES BELOW NORMAL DITCH FLOW LINE ELEVATION AND RETURNING TO NORMAL 10 FEET EACH SIDE OF BASIN.

<u>SIDE INLETS</u> — SHALL BE PROVIDED ON BOTH SIDES OF THE 2—2A CATCH BASINS IN SAGS AND ON UPSTREAM SIDE ONLY WHERE THE DITCH HAS A CONTINUOUS DOWN GRADE PAST THE CATCH BASIN.

<u>CATCH BASIN SPACING</u> — CATCH BASIN SPACING SHALL BE 500 FEET MAXIMUM OR AS REQUIRED TO MEET ANY DRAINAGE REQUIREMENTS OR OTHER REGULATORY REQUIREMENTS.

MAXIMUM SIZE PIPE — FOR 2—2A & 2—2B SHALL BE 15" DIAMETER FOR CONCRETE PIPE AND CLAY TILE AND 18" FOR DUAL WALL SMOOTH INTERIOR PLASTIC PIPE AND SCHEDULE 40 P.V.C. PIPE.



SECTION THROUGH ANGLE FRAME

FOR STANDARD No. 2-2A CATCH BASIN

	REVISION	S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	6-26-79	TJP	
2	11-13-89	TJP	CATCUDACINI
3	10-5-06	RJM	CATCH BASIN
4	5-12-16	ZJG	DETAILS
5	01-01-23	ZJG	DLIMES
			OT LIND AND CONSTRUCTION OF A SALE OF A A A
			STANDARD CONSTRUCTION DRAWING CB 2-2A & CB 2-2B
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<u>PRECAST CATCH BASINS</u> — SHALL BE APPROVED BY THE COUNTY ENGINEER ON A PER APPLICATION BASIS.

GRATING AND FRAME - SHALL BE NEENAH OR EAST JORDAN THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER. THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.

> WEIGHT OF GRATE = 120 lbs. (MINIMUM) WEIGHT OF FRAME = 40 lbs. (MINIMUM)

CONCRETE - CAST IN PLACE TO BE CLASS "QC1".

CONCRETE BLOCK - SIDE WALLS, WHEN USED IN PLACE OF CONCRETE, SHALL BE 8 INCHES NOMINAL THICKNESS.

REINFORCING - IN THE TOP SHALL BE #4 DEFORMED BARS, 6 INCHES CENTER TO CENTER. FOR STANDARD CB 2-3 USE 8 BARS AND FOR STANDARD CB 2-4 USE 12 BARS.

FLOWLINE - OF A PIPE DISCHARGING WATER INTO A CATCH BASIN SHALL BE ARRANGED WHENEVER POSSIBLE TO HAVE THE TOP OF SUCH PIPE AT LEAST AS HIGH AS THE TOP OF THE OUTLET PIPE.

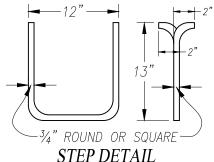
SIDE INLETS - TO BE PLACED 4 TO 6 INCHES BELOW NORMAL ELEVATION OF BOTTOM OF SIDE DITCH. SIDE INLETS MAY BE OMITTED WHEN SO STATED ON THE PLANS OR AT THE DIRECTION OF THE COUNTY ENGINEER.

<u>SIZE OF CATCH BASIN</u> - TO BE DETERMINED BY THE SIZE OF THE OUTLET PIPE AS PER THE FOLLOWING TABLE:

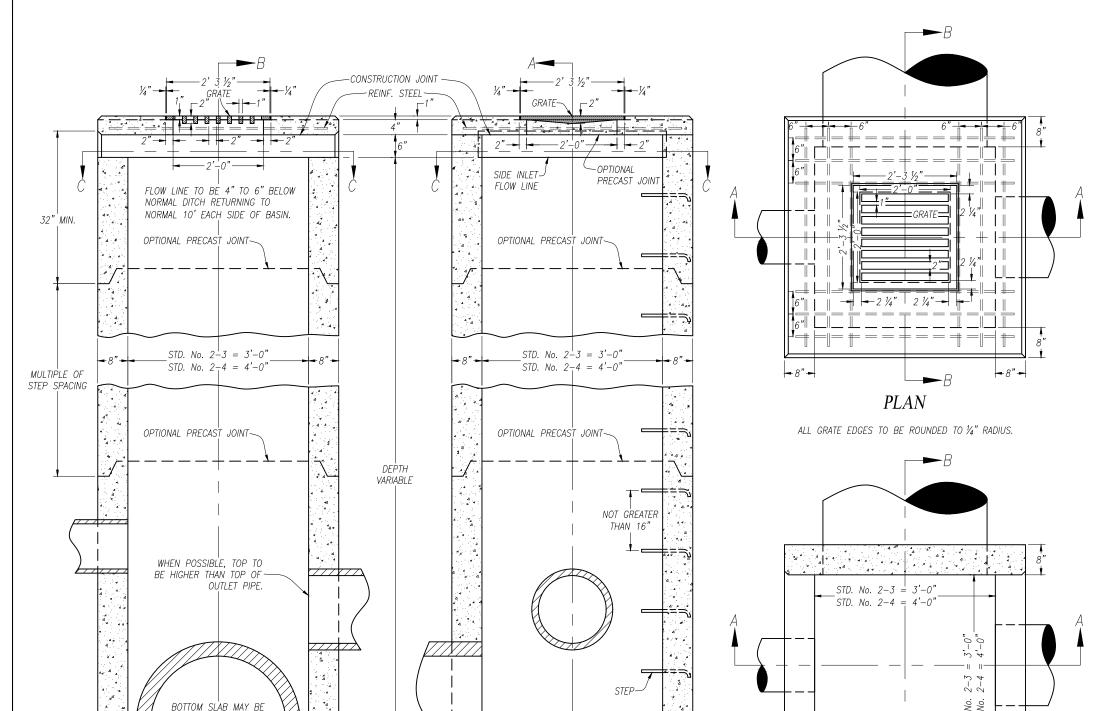
SIZE OF PIPE	SIZE OF CATCH BASIN
18" – 27"	2–3
<i>30" - 36"</i>	2-4

STEPS - SHALL BE PROVIDED WHERE THE DEPTH EXCEEDS 72" AND SHALL MEET THE REQUIREMENTS OF THE COUNTY ENGINEER.

CATCH BASIN SPACING - CATCH BASIN SPACING SHALL BE 500 FEET MAXIMUM OR AS REQUIRED TO MEET ANY DRAINAGE REQUIREMENTS OF REGULATORY REQUIREMENTS.



REVISIONS		S	ALLEN COUNTY, OHIO	
NO.	DATE	BY	COUNTY ENGINEER	
1	6-26-79	TJP	COUNTY BITOITEEN	
2	11-13-89	TJP	CATCH DACIN	
3	10-5-06	RJM	CATCH BASIN	
4	5-12-16	ZJG	DETAILS	
5	01-01-23	ZJG		
			STANDARD CONSTRUCTION DRAWING CB 2-3 & CB 2-4	
			DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES	



4 1/2"

STEP

4.4.4.4

SECTION C-C

STD. STD.

 \bigcirc

PRECAST SEPARATELY

AND THE OUTLET PIPE

PLACED ON TOP OF IT.

SECTION A-A

8" MIN. BASE

4 44

. 4 4 4

PERMISSIBLE CONSTRUCTION JOINT-

SECTION B-B

4 4 4 4

PERMISSIBLE CONSTRUCTION JOINT-

4" BELOW NORMAL DITCH TURNING TO NORMAL IN 10' EACH SIDE OF BASIN **PLAN** ALL GRATE EDGES TO BE ROUNDED TO 1/4" RADIUS. **ELEVATION GRATE** CONCRETE BASE SECTION A-A SECTION B-B CATCH BASIN

FOR REPAIR OF EXISTING CATCH BASINS OF THIS TYPE ONLY

<u>NOTES</u>

GENERAL — CARE SHALL BE TAKEN BY THE FIELD ENGINEER IN THE PLACING OF THIS TYPE OF CATCH BASIN. SPECIAL NOTE SHALL BE GIVEN TO THE GRADE ELEVATION OF DRAIN PIPE AND WHEN FINISHED THE CATCH BASIN SHALL STAND IN A TRUE VERTICAL POSITION. NO CUTTING OF HOLES IN THE SIDE OF THE PIPE WILL BE PERMITTED.

<u>CASTING</u> — SHALL BE NEENAH OR EAST JORDAN THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER.

THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.

WEIGHT = 75 lbs. MINIMUM

<u>RISER PIPE</u> — IN ALL CASES SHALL BE 18 INCHES IN DIAMETER REGARDLESS OF SIZE OF CARRYING LINE.

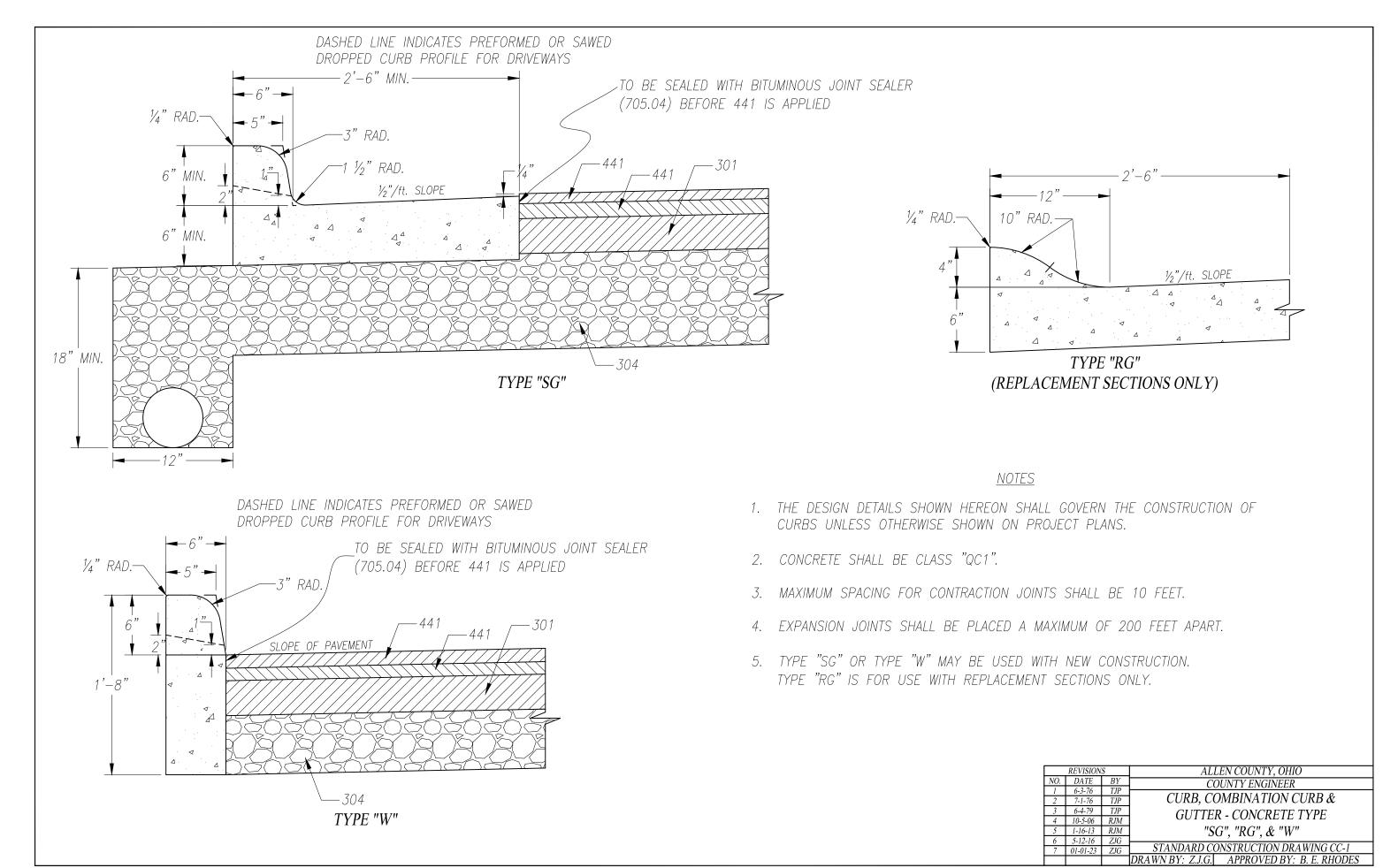
<u>CROSS</u> — WHERE CARRYING LINE IS NOT CONTINUOUS THROUGH THE CATCH BASIN, THE UPSTREAM OPENING OF THE CROSS SHALL BE PROPERLY PLUGGED USING VITRIFIED OR CONCRETE STOPPER AND SEALED JOINT.

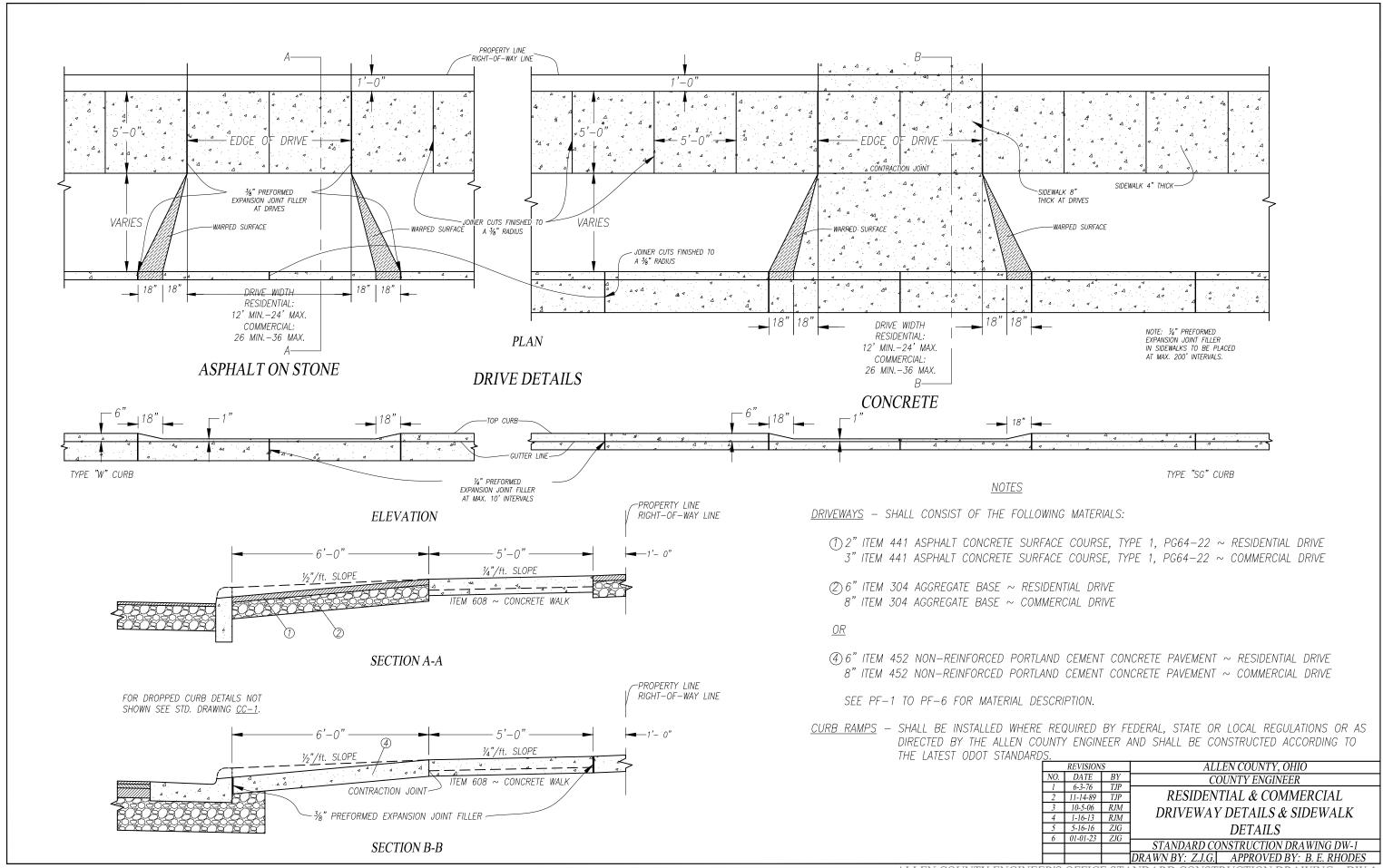
RISER AND CROSS — SHALL BE CONSTRUCTED OF STANDARD STRENGTH VITRIFIED CLAY PIPE OR STANDARD STRENGTH NON—REINFORCED CONRETE PIPE, BELL AND SPIGOT PIPE ONLY.

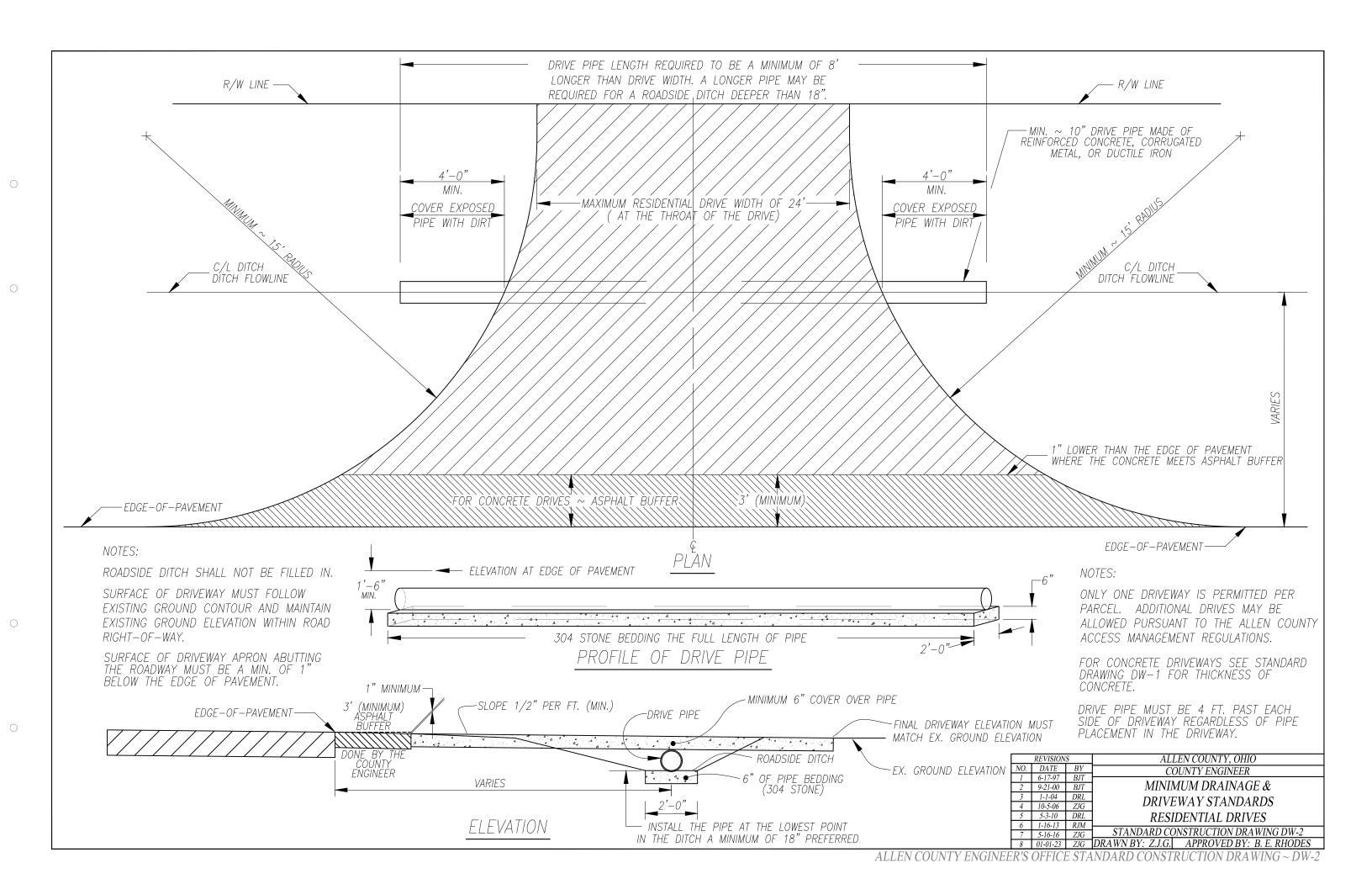
CONCRETE BASE - TO BE CLASS "QC1".

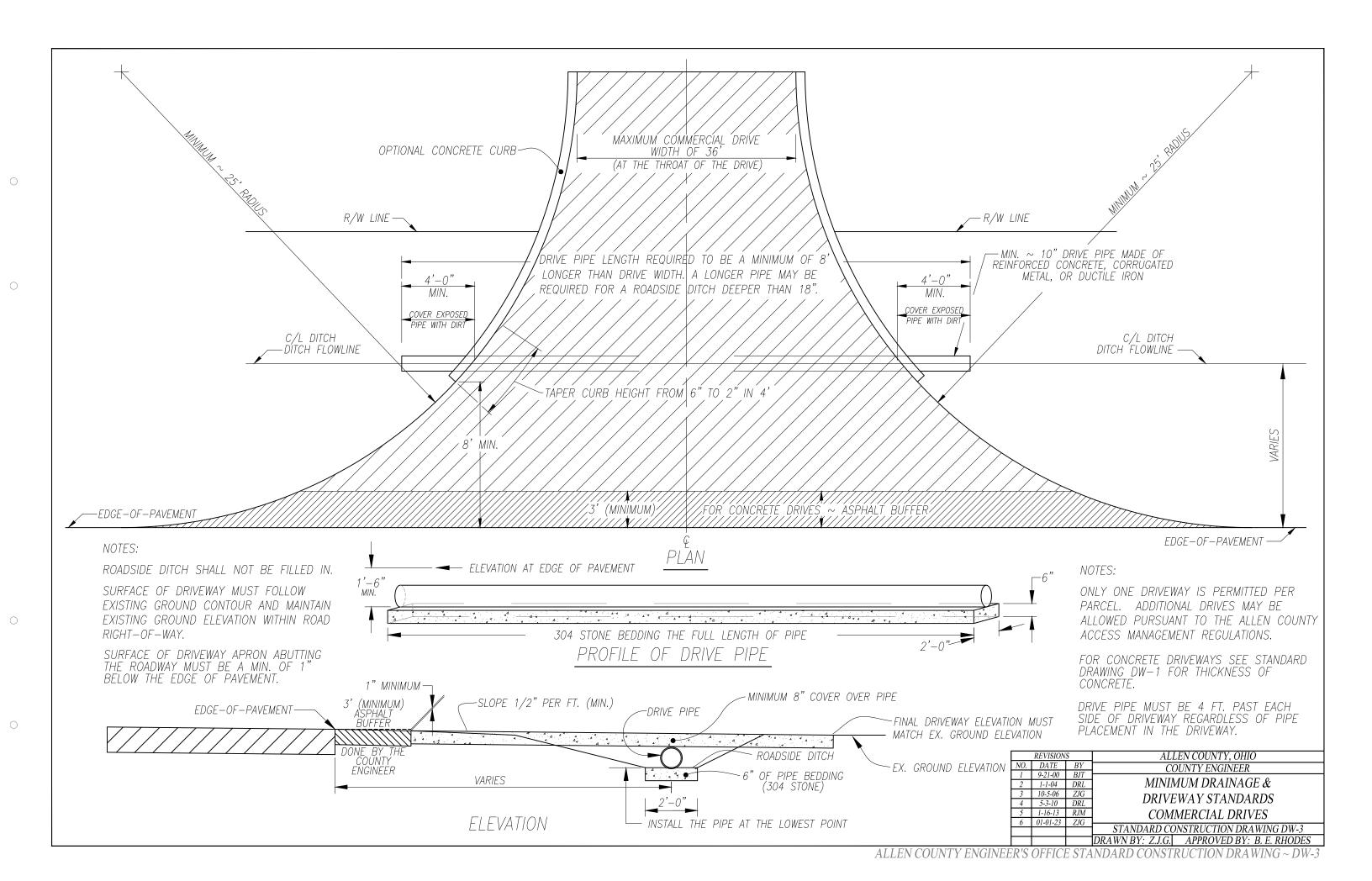
<u>CATCH BASIN SPACING</u> — CATCH BASIN SPACING SHALL BE 500 FEET MAXIMUM OR AS REQUIRED TO MEET DRAINAGE REQUIREMENTS OR OTHER REGULATORY REQUIREMENTS.

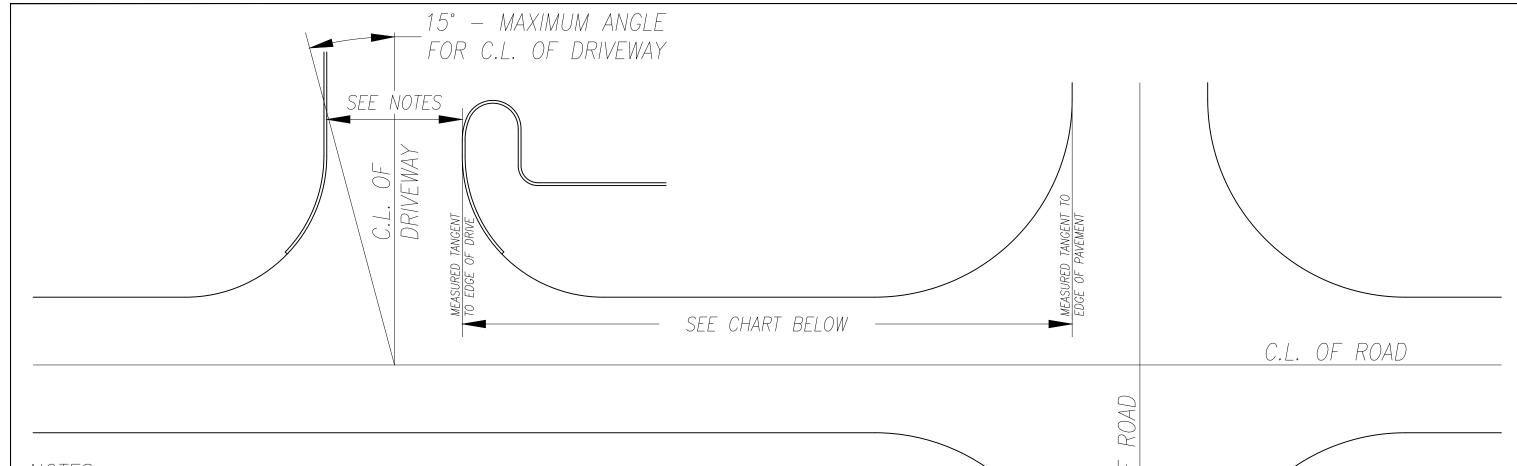
	REVISION	S	ALLEN COUNTY, OHIO	
NO.	DATE	BY	COUNTY ENGINEER	
1	11-13-89	TJP	COCITI EITON EEL	
2	10-5-06	RJM	CATCILDACINI	
3	5-12-16	ZJG	CATCH BASIN	
4	01-01-23	ZJG	DETAILS	
			DETAILS	
			STANDARD CONSTRUCTION DRAWING CB-4	
			DRAWN BY: Z.I.G. APPROVED BY: B. E. RHODES	











NOTES:

- 1. DRIVEWAY ANGLE SHALL BE A MAXIMUM OF 15° FROM PERPENDICULAR.
- 2. ONE DRIVEWAY ALLOWED PER PARCEL PER STREET FRONTAGE.
- 3. MAXIMUM DRIVEWAY WIDTH FOR RESIDENTIAL DRIVES IS 24' AT THE THROAT.
- 4. MAXIMUM DRIVEWAY WIDTH FOR COMMERCIAL DRIVES IS 36' AT THE THROAT.

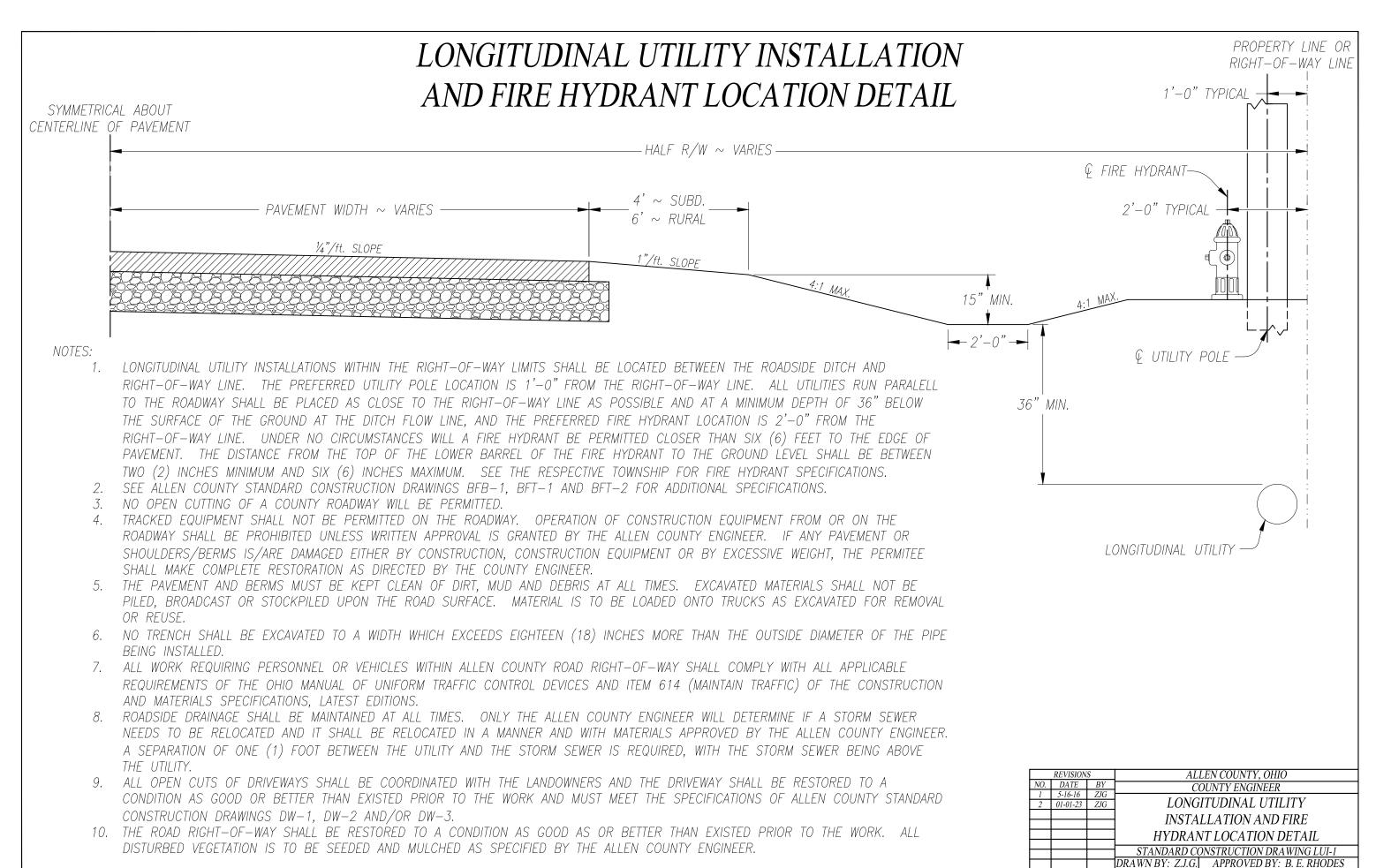
INTERSECTING ROADWAY CATEGORY*	DISTANCE FROM INTERSECTION
I OR II	1000 FT.
	500 FT.
/V	250 FT.
UNCLASSIFIED	250 FT.

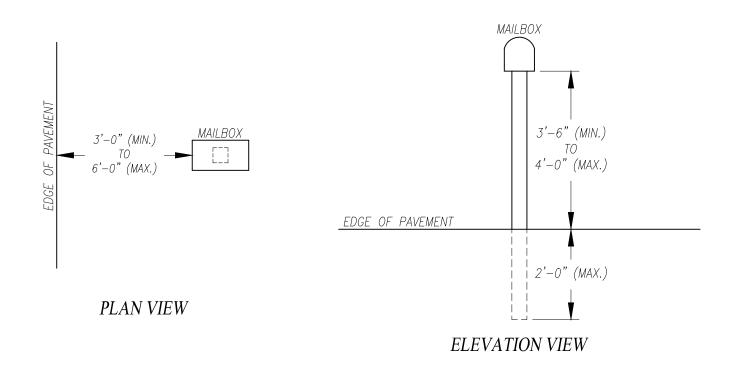
^{* ~} ROADWAY CATEGORIES CAN BE FOUND IN THE ALLEN COUNTY ACCESS MANAGEMENT PLAN MANUAL

POSTED SPEED LIMIT	MINIMUM DISTANCE BETWEEN DRIVEWAYS
25 M.P.H.	155 FT.
30 M.P.H.	200 FT.
35 M.P.H.	250 FT.
40 M.P.H.	305 FT.
45 M.P.H.	360 FT.
50 M.P.H.	425 FT.
55 M.P.H.	495 FT.
60 M.P.H.	570 FT.
65 M.P.H.	645 FT.

THE ABOVE TABLE ONLY APPLIES TO ROADWAYS THAT ARE LISTED IN THE ALLEN COUNTY ACCESS MANAGEMENT PLAN MANUAL

	REVISIONS		S	ALLEN COUNTY, OHIO
N	<i>i0.</i>	DATE	BY	COUNTY ENGINEER
	1	9-21-00	BJT	
	2	10-5-06	RJM	DDIVENAV
	3	5-16-16	ZJG	DRIVEWAY
	4	01-01-23	ZJG	SPACING AND ANGLES
				DI MONO MIND MINULES
				STANDARD CONSTRUCTION DRAWING DW-4
				DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES





REQUIREMENTS FOR THE INSTALLATION OF MAILBOXES

ALL MAILBOX UNITS, ATTACHMENTS, DECALS, SUPPORTS AND INSTALLATION THEREOF ARE TO BE IN STRICT ACCORDANCE WITH UNITED STATES POSTAL REGULATIONS AND IN COMPLIANCE WITH THE FOLLOWING SPECIFICATIONS AND STANDARD DRAWINGS.

- 1. THE MAILBOX UNIT SHALL BE CONSTRUCTED ENTIRELY OF PLASTIC AND/OR LIGHTWEIGHT GALVANIZED STEEL ATTACHED TO THE SUPPORT STRUCTURE (POST) WITH SUFFICIENT STRENGTH TO PREVENT THE BOX FROM SEPARATING FROM THE POST IF STRUCK BY A VEHICLE.
- 2. THE SUPPORT STRUCTURE (POST) SHALL BE EITHER A WOODEN POST (NO LARGER THAN 4 IN. X 4 IN. SQUARE OR 4 IN. DIAMETER ROUND) OR A METAL POST WITH A STRENGTH NO GREATER THAN A 2 IN. DIAMETER STANDARD STRENGTH STEEL PIPE (WITH A WEIGHT NOT IN EXCESS OF 2.6 LBS. PER FOOT). NO SUPPORT STRUCTURE SHALL BE EMBEDDED MORE THAN 24 INCHES INTO THE GROUND. A METAL POST SHALL NOT BE FITTED WITH AN ANCHOR PLATE, BUT IT MAY HAVE AN ANTI-TWIST DEVICE THAT EXTENDS NO MORE THAN 10 INCHES BELOW THE GROUND SURFACE. MAILBOX SUPPORTS SHALL NOT BE SET IN CONCRETE.
- 3. THE UNIT SHALL BE PLACED AT AN OFFSET FROM THE EDGE OF THE PAVEMENT SO THAT THE ROADSIDE FACE OF THE MAILBOX IS NO CLOSER THAN 3 FEET FROM THE EDGE OF THE PAVEMENT. WHEN A MAILBOX IS INSTALLED IN THE VICINITY OF AN EXISTING GUARDRAIL, IT SHALL BE PLACED BEHIND THE GUARDRAIL UNLESS OTHERWISE APPROVED BY THE ALLEN COUNTY ENGINEER.
- 4. MULTIPLE MAILBOX UNITS OF MORE THAN TWO BOXES SHALL <u>NOT</u> BE MOUNTED ON ONE SUPPORT. HOWEVER, LIGHTWEIGHT NEWSPAPER BOXES MAY BE MOUNTED BELOW THE MAILBOX ON THE SIDE OF THE MAILBOX SUPPORT. MULTIPLE POSTS SHALL BE PLACED NO LESS THAN 3 FEET APART.
- 5. DESIGNS NOT DESCRIBED ON THIS STANDARD DRAWING WILL BE ACCEPTABLE ONLY IF WRITTEN APPROVAL IS GRANTED BY THE ALLEN COUNTY FNGINFFR'S OFFICE.
- 6. THE OWNER SHALL ASSUME RESPONSIBILITY FOR AND SHALL HOLD ALLEN COUNTY HARMLESS AND DEFEND ANY AND ALL CLAIMS FOR PERSONAL INJURY AND PROPERTY DAMAGES THAT MIGHT BE BROUGHT AS A RESULT OF THIS WORK.
- 7. MAINTENANCE RESPONSIBILITIES FOR THIS INSTALLATION ARE FOREVER THE RESPONSIBILITY OF THE PROPERTY OWNER.

NOTES.

IT IS THE DUTY OF THE COUNTY ENGINEER TO PROVIDE THE SAFEST POSSIBLE HIGHWAY SYSTEM FOR THE TRAVELING PUBLIC OF ALLEN COUNTY. SECTION 5547 OF THE OHIO REVISED CODE PROVIDES FOR THE REMOVAL OF OBSTRUCTIONS WITHIN THE COUNTY HIGHWAY SYSTEM RIGHTS—OF—WAY. THESE STANDARDS ARE BASED ON THE FEDERAL HIGHWAY ADMINISTRATION'S STANDARDS FOR RURAL MAILBOXES. MAILBOXES NOT IN COMPLIANCE WITH THESE STANDARDS ARE A SAFETY HAZARD AND AN OBSTRUCTION TO THE SAFE USE OF THE HIGHWAY AND SHOULD BE REMOVED.

IF A SNOWPLOW ACTUALLY HITS A MAILBOX, THE MAILBOX WILL BE REPLACED WITH A STANDARD METAL BOX AND WOOD POST BY ALLEN COUNTY ENGINEER PERSONNEL.

IF THE MAILBOX IS DAMAGED DUE TO FLYING SNOW, ICE OR SLUSH FROM THE ROAD BEING PLOWED, THE MAILBOX WILL <u>NOT</u> BE REPLACED BY ALLEN COUNTY ENGINEER PERSONNEL.

NO CONCRETE, BRICK, MASONRY OR OTHER LIKE MATERIAL SHALL BE USED AS A MAILBOX POST OR DECORATIVE POST SURROUND.

THE GREEN 9-1-1 ADDRESS SIGN MAY BE OBTAINED FROM YOUR TOWNSHIP TRUSTEES.

WARNING:

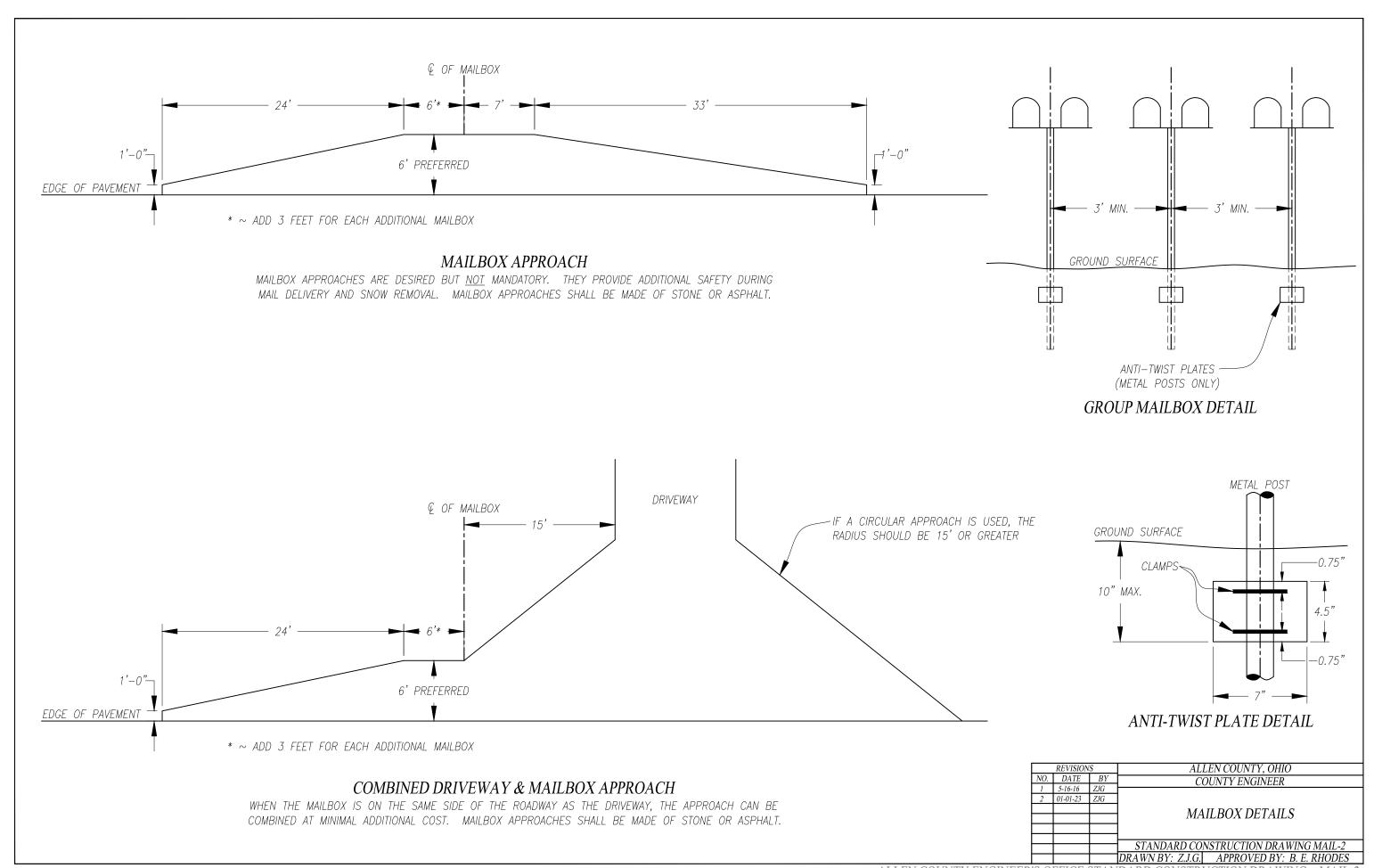
THE FOLLOWING ARE EXCERPTS FROM AN OHIO SUPREME COURT RULING FROM 1992:

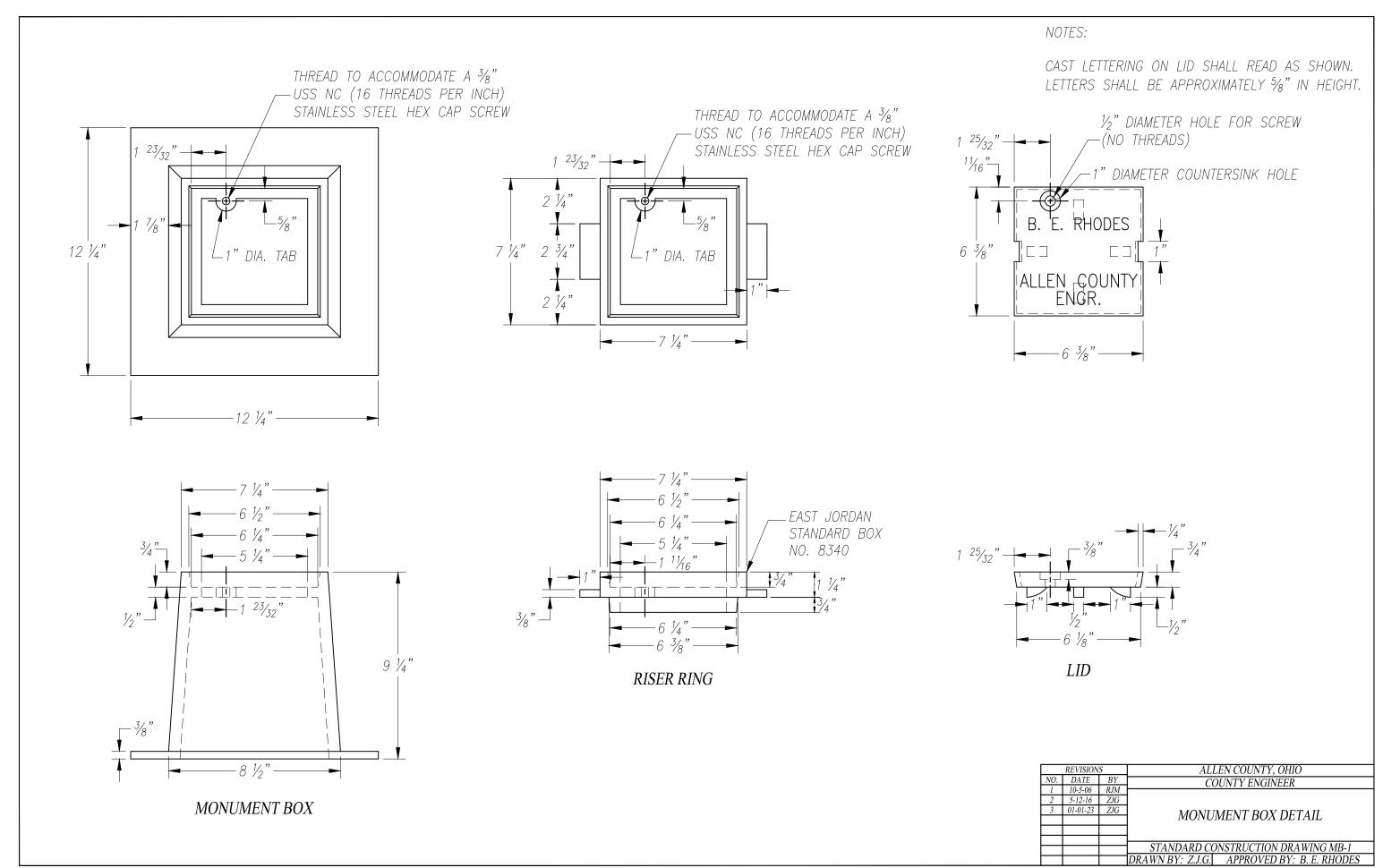
"WHERE AN ABUTTING LAND OWNER OR OCCUPIER USES THE HIGHWAY RIGHT—OF—WAY IN A MANNER INCONSISTENT WITH A HIGHWAY PURPOSE, AND WHERE SUCH USAGE CONSTITUTES AN UNREASONABLE HAZARD TO USERS OF THE HIGHWAY, THE LAND OWNER OR OCCUPIER MAY BE LIABLE FOR DAMAGES PROXIMATELY CAUSED BY THE IMPROPER USE OF THE RIGHT—OF—WAY."

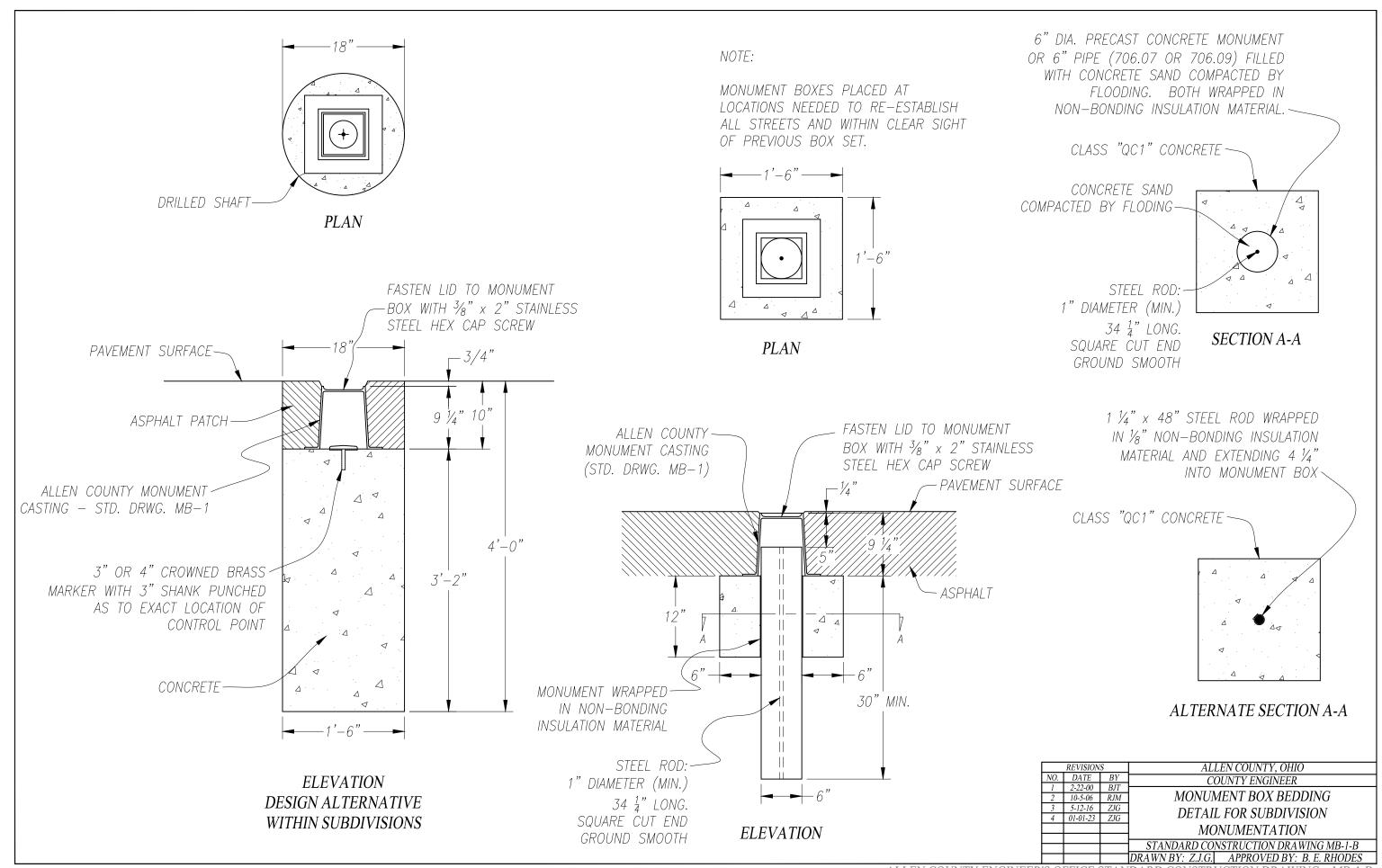
"A LAND OWNER OR OCCUPIER IS UNDER OBLIGATION TO KNOW THE BOUNDARIES OF THE PROPERTY. THE BORDER OF THE RIGHT—OF—WAY IS A BOUNDARY LINE LIKE ANY OTHER."

TO REDUCE THE LIABILITY EXPOSURE OF LAND OWNERS OR OCCUPIERS AND ALLEN COUNTY, WE HAVE AN OBLIGATION TO INFORM YOU THAT ANYTHING WHICH YOU CAUSE TO BE PLACED, OR CAUSE TO REMAIN, ON THE RIGHT-OF-WAY COULD BE THE CAUSE OF LEGAL ACTION BEING BROUGHT AGAINST YOU. IF YOU CURRENTLY HAVE SUCH ITEMS AS FENCES, TREES, SHRUBS, STONES OR ANY OTHER OBSTRUCTIONS ON THE RIGHT-OF-WAY, YOU SHOULD MAKE ARRANGEMENTS TO HAVE THEM REMOVED.

	REVISION	IS	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	5-16-16 01-01-23	ZJG ZJG	
	01-01-23	ZJG	MAH DON CTANDARDC
			MAILBOX STANDARDS
			STANDARD CONSTRUCTION DRAWING MAIL-1
			DRAWN BY: Z.I.G. APPROVED BY: B. E. RHODES

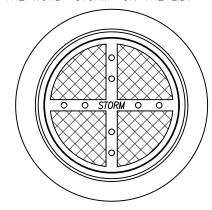


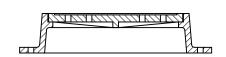




MANHOLE FRAME & LID CASTING

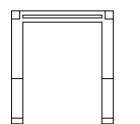
ALL DIMENSIONS AS SPECIFIED FOR NEENAH R-1668 OR EAST JORDAN 1045 FRAME & LID, OR ALLEN COUNTY ENGINEER APPROVED EQUAL, WITH THE WORD "STORM" ON THE LID.



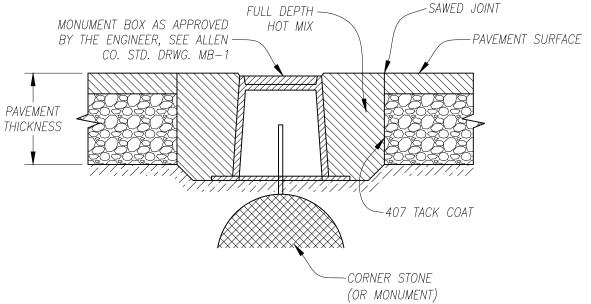


MANHOLE STEP

ALL DIMENSIONS AS SPECIFIED FOR NEENAH R-1980-C OR ALLEN COUNTY ENGINEER APPROVED EQUAL.







MONUMENT ASSEMBLY IN PAVEMENT, MA-2

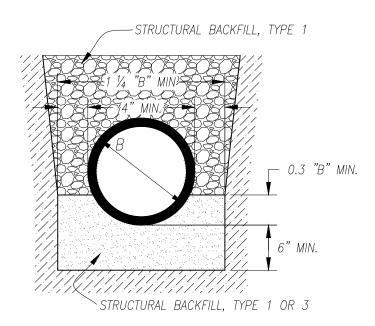
(FOR CORNER STONES ONLY; SEE ALLEN CO. STD.DRWG. MB-1-B FOR SUBDIVISION MONUMENTATION)

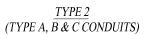
<u>PIPE BEDDING:</u> PIPE BEDDING SHALL CONFORM WITH THE CLASSIFICATION AS SHOWN HEREON OR AS DIRECTED BY THE ALLEN COUNTY ENGINEER.

PIPE BACKFILL UNDER ROADWAY: PIPE BACKFILL UNDER THE ROADWAY SHALL BE FULL DEPTH GRANULAR MATERIAL (ODOT SPEC. No. 703.11A, STRUCTURAL BACKFILL TYPE 1, WET FROM QUARRY) COMPACTED AS DIRECTED BY THE ALLEN COUNTY ENGINEER TO A MINIMUM HORIZONTAL DISTANCE OF 4 FEET BACK OF CURB OR 6 FEET BACK OF THE EDGE OF PAVEMENT. SEE ALLEN CO. STD. DRWG. RC—1.

<u>PIPE BACKFILL IN OTHER AREAS:</u> BACKFILL ACCORDING TO ODOT SPEC. 603.10 AND ALLEN CO. STD DRWG. BFT—2.

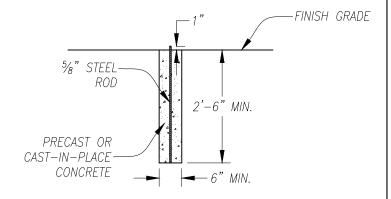
PIPE DELIVERED TO SITE SHALL BE MARKED ACCORDING TO ODOT SPECIFICATIONS.





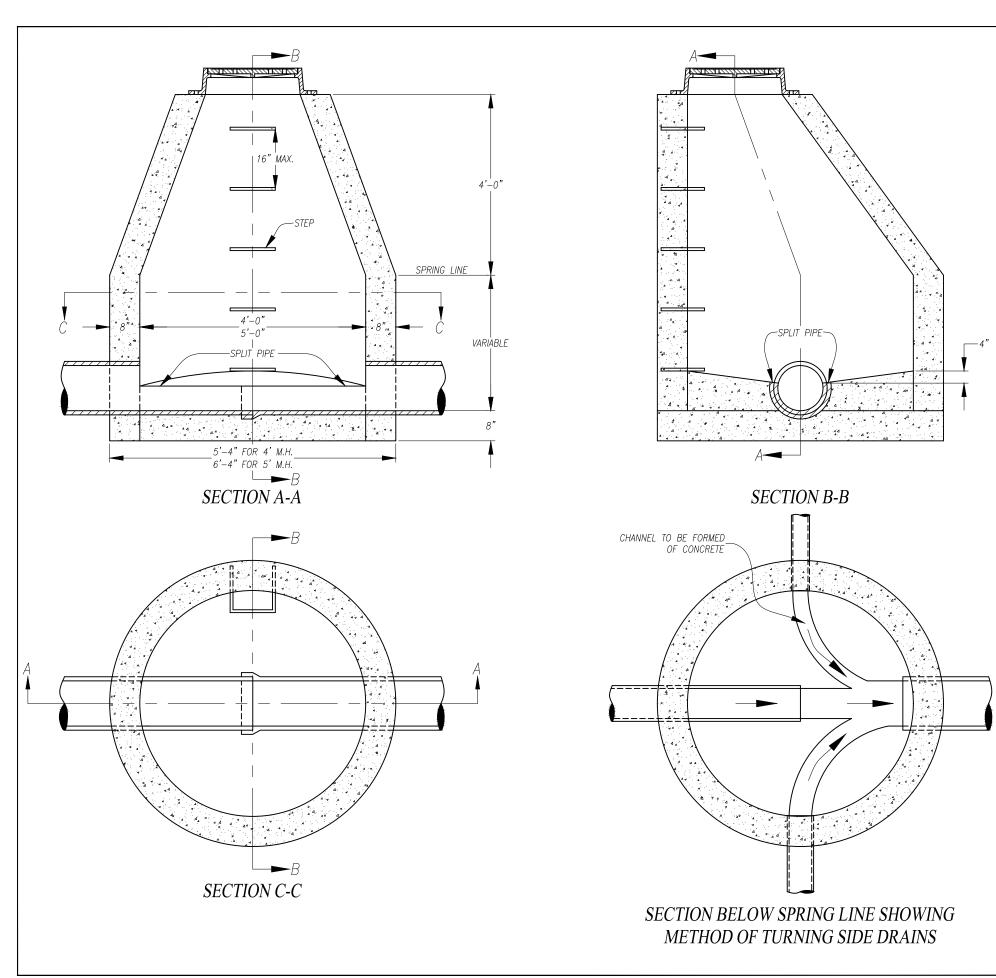
> TYPE 4 (TYPE D, E & F CONDUITS)

BEDDING DETAILS



MONUMENT ASSEMBLY IN GROUND, MA-1

_				
	REVISIONS			ALLEN COUNTY, OHIO
ļ	NO.	DATE	BY	COUNTY ENGINEER
ŀ	1	6-3-76	TJP	MISCELLANEOUS DETAILS -
ŀ	2	5-30-79 10-5-06	TJP RJM	
ŀ	<u> </u>	1-16-13	RJM	MONUMENT ASSEMBLY, CASTING
ŀ	5	5-12-16	ZJG	DETAILS, BEDDING DETAILS
ı	6	01-01-23	ZJG	,
ı				STANDARD CONSTRUCTION DRAWING MD-1
ı		i		DDAWN RV. 7 IC ADDDOVED RV. R E DHODES



4'-0" FOR SEWERS 24" AND UNDER, STD. MANHOLE No. 1 5'-0" FOR SEWERS 27" TO 42", STD. MANHOLE No. 2

<u>NOTES</u>

GENERAL: THE DESIGN SHOWN ON THIS DRAWING IS FOR CAST—IN—PLACE CONCRETE. THE THICKNESS OF THE WALLS SHALL NOT BE LESS THAN 8". THE THICKNESS OF THE WALLS SHALL BE INCREASED TO 12" FOR DEPTHS OVER 15'.

CONSTRUCTION: MANHOLES SHALL BE BUILT OF CAST—IN—PLACE CONCRETE. BOTTOM OF MANHOLES SHALL MEET THE REQUIREMENTS OF SECTION 499, CLASS "QC1" CONCRETE.

<u>SETTING OF CASTING:</u> THE BASE OF THE FRAME SHALL BE SET IN A FULL BED OF PORTLAND CEMENT MORTAR AND SO ADJUSTED TO CONFORM TO THE FINISHED GROUND OR PAVEMENT GRADE.

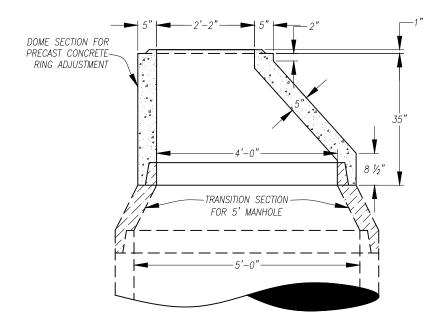
CASTINGS AND STEPS: MANHOLE CASTINGS SHALL BE NEENAH, EAST JORDAN OR EQUAL THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER. STEPS SHALL BE NEENAH OR ALLEN COUNTY ENGINEER APPROVED EQUAL. CASTINGS AND STEPS SHALL HAVE ONE COAT OF ASPHALT PAINT.

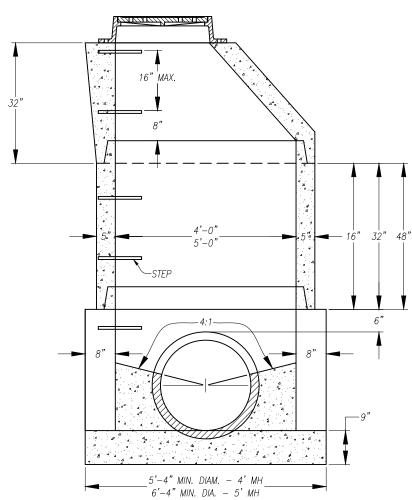
MANHOLES USED AS CATCH BASINS: SEE CASTINGS SPECIFIED ON STANDARD CONSTRUCTION DRAWING CB-1.

NOTE: MANHOLE DETAILS FOR SEWERS OVER 42" WILL BE SHOWN ON THE CONSTRUCTION PLANS.

REVISIONS		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	6-3-76	TJP	COCITI BITORIBBIT
2	11-14-89	TJP	MANHOLE DETAILS
3	10-5-06	RJM	MANHOLE DETAILS
4	1-16-13	RJM	CAST-IN-PLACE CONCRETE
5	5-16-16	ZJG	Chor-in-renew conventite
6	01-01-23	ZJG	OTHER CONTEMP
			STANDARD CONSTRUCTION DRAWING MH-1 & MH-2
			DRAWN BY: Z.LG. APPROVED BY: B. E. RHODES

NOTE: PRECAST ADJUSTING RINGS, 2", 3", 4", & 6" IN HEIGHT, TO BE USED FOR GRADE ADJUSTMENTS NOT MORE THAN 1'-0".





4'-0" FOR SEWERS 24" AND UNDER, STD. MANHOLE No. 3 5'-0" FOR SEWERS 27" TO 42", STD. MANHOLE No. 4

<u>NOTES</u>

GENERAL: ALL JOINTS OF PIPE OPENINGS IN THE MANHOLE SHALL BE THOROUGHLY CAULKED TO PREVENT INFILTRATION. DOMES SHALL HAVE AT LEAST ONE LINE OF STEEL REINFORCEMENT WITH A MINIMUM CROSS SECTIONAL AREA OF 0.116 SQ. IN. PER LINEAL FOOT OF DOME.

MATERIALS: CONCRETE FOR THE MANHOLE BASE SHALL BE CLASS "QC1". PRECAST REINFORCED CONCRETE RINGS 48" IN DIAMETER SHALL MEET THE STRENGTH AND DESIGN REQUIREMENTS FOR 48" STANDARD REINFORCED CONCRETE SEWER PIPE.

ADJUSTING RINGS: PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH ONE No. 3 GAGE WIRE OR EQUIVALENT. THE TOP OF THE DOME SHALL BE PLACED AT AN ELEVATION SO THAT A MINIMUM HEIGHT OF 6" OF ADJUSTING RINGS SHALL BE USED AT ALL TIMES, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

<u>SETTING OF CASTING:</u> THE BASE OF THE FRAME SHALL BE SET IN A FULL BED OF PORTLAND CEMENT MORTAR AND SO ADJUSTED TO CONFORM TO THE FINISHED GROUND OR PAVEMENT GRADE.

CASTINGS AND STEPS: MANHOLE CASTINGS SHALL BE NEENAH, EAST JORDAN OR EQUAL THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER. STEPS SHALL BE NEENAH OR ALLEN COUNTY ENGINEER APPROVED EQUAL. CASTINGS AND STEPS SHALL HAVE ONE COAT OF ASPHALT PAINT.

<u>MANHOLES USED AS CATCH BASINS:</u> SEE CASTINGS SPECIFIED ON STANDARD CONSTRUCTION DRAWING CB-1.

NOTE: MANHOLE DETAILS FOR SEWERS OVER 42" WILL BE SHOWN ON THE CONSTRUCTION PLANS.

REVISIONS		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	6-3-76	TJP	MANHOLE DETAILS - PRECAST
2	11-14-89 10-5-06	TJP	· - · · · - · · · · · · · · · · · · · ·
3 A	1-16-13	RJM RJM	CONCRETE, TONGUE & GROOVED,
5	5-16-16	ZJG	REINFORCED
6	01-01-23	ZJG	
			STANDARD CONSTRUCTION DRAWING MH-3 & MH-4
			DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES

DROP ATTACHMENT DETAIL (DA)



"W" = 8" FOR BRICK OR CONC. BLOCK MANHOLE
"W" = 5" FOR PRECAST MANHOLE

_5'-4" MIN. DIAM. - 4' M.H. 6'-4" MIN. DIAM. - 5' M.H.

4'-0" MIN. DIAM. 5'-0" MIN. DIAM.

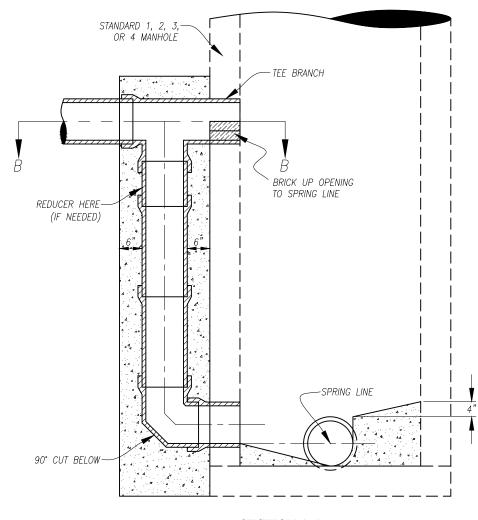
16" MAX.

 \bigcirc

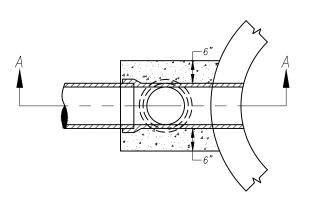
BRICK, CONC. BLOCK, OR PRECAST CONC.
CONSTRUCTION

-MAXIMUM — 3 COURSES OF BRICK

SEWER SIZE	DROP SIZE
8"	8"
10"	10"
12"-15"-18"	12"
21"-24"	15"
27"-30"-36"	18"
42"-48"	24"



SECTION A-A



SECTION B-B

4'-0" FOR SEWERS 24" AND UNDER, STD. MANHOLE No. 5 5'-0" FOR SEWERS 27" TO 42", STD. MANHOLE No. 6

<u>NOTES</u>

GENERAL: THE DROP ATTACHMENT MAY BE USED WITH STANDARD MANHOLE 1, 2, 3, OR 4. DETAILS OF THESE ARE SHOWN ON STANDARD DRAWINGS MH-1 & MH-2 AND MH-3 & MH-4. ALL NOTES WHICH APPLY TO MANHOLES 1, 2, 3, AND 4 SHALL APPLY TO MANHOLES 5 AND 6 EXCEPT THAT THE COVER MAY BE PRECAST OR CAST-IN-PLACE AND REINFORCED WITH # 4 BARS, 6" c/c.

<u>DROP PIPE:</u> THE TABLE ON THIS DRAWING SHALL DETERMINE THE SIZE OF THE DROP PIPE FOR ALL DRAINS CARRYING SANITARY FLOW WHICH CANNOT BE CONNECTED TO THE MANHOLE AT THE FLOW LINE.

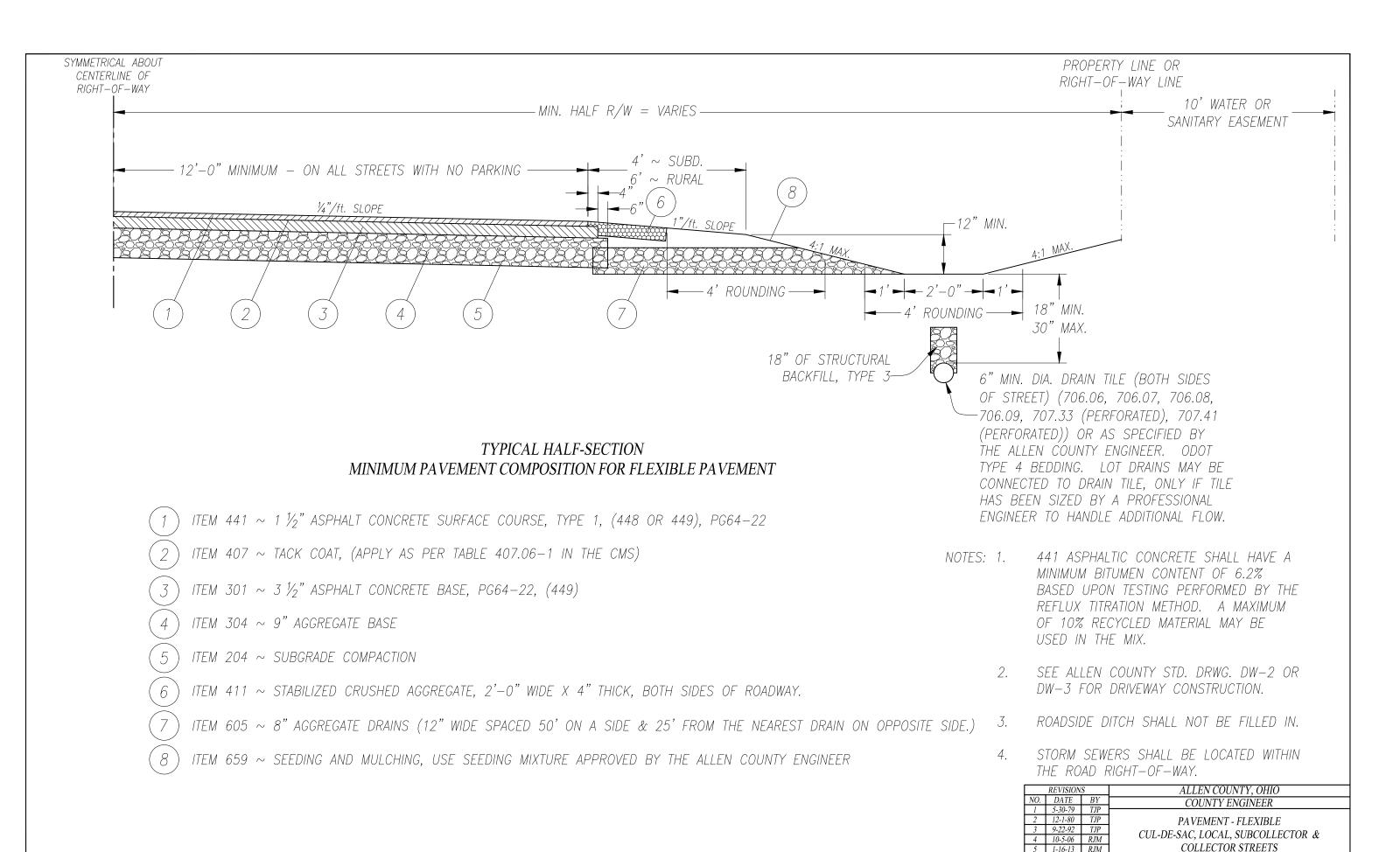
CONCRETE: CONCRETE SHALL BE CLASS "QC1".

CASTINGS AND STEPS: MANHOLE CASTINGS SHALL BE NEENAH, EAST JORDAN OR EQUAL THAT MEETS THE APPROVAL OF THE ALLEN COUNTY ENGINEER. STEPS SHALL BE NEENAH OR ALLEN COUNTY ENGINEER APPROVED EQUAL. CASTINGS AND STEPS SHALL HAVE ONE COAT OF ASPHALT PAINT.

<u>MANHOLES USED AS CATCH BASINS:</u> SEE CASTINGS SPECIFIED ON STANDARD CONSTRUCTION DRAWING CB-1.

NOTE: MANHOLE DETAILS FOR SEWERS OVER 42" WILL BE SHOWN ON THE CONSTRUCTION PLANS.

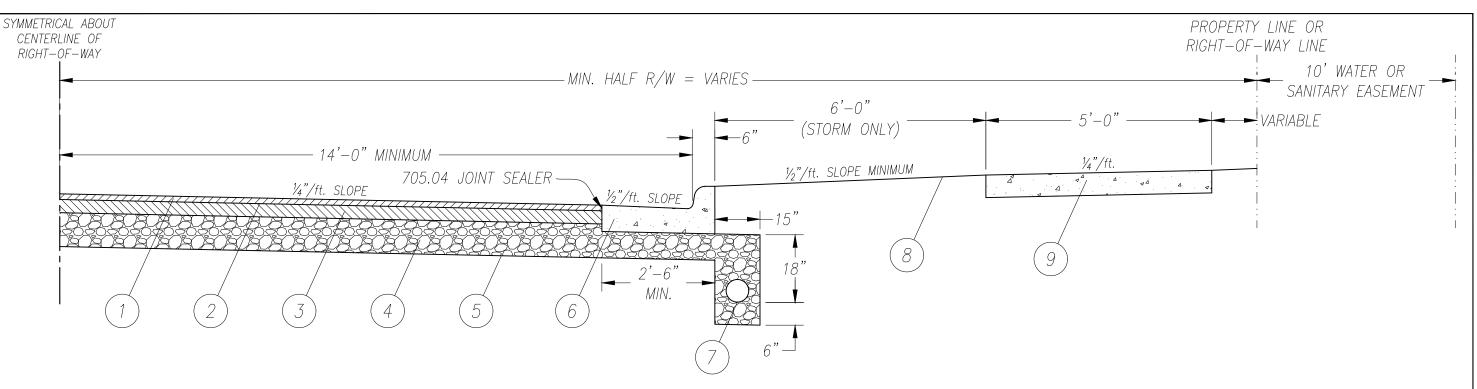
	REVISION	S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	6-3-76	TJP	COUNTIENGINEER
2	11-14-89	TJP	MANHOLE DETAILS SHALLOW &
3	10-5-06	RJM	MANHOLE DETAILS - SHALLOW &
4	1-16-13	RJM	DROP ATTACHMENT DETAIL
5	5-16-16	ZJG	
6	01-01-23	ZJG	STANDARD CONSTRUCTION DRAWING MH-5, MH-6 & DA
-			DRAWN BY: ZIGL APPROVED BY: B F RHODES



THE ITEMS LISTED ABOVE REFER TO THE MATERIAL & CONSTRUCTION SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATION (CMS) MANUAL UNLESS NOTED OTHERWISE.

STANDARD CONSTRUCTION DRAWING PF-1

DRAWN BY: Z.J.G. APPROVED BY: B. E. RHODES



TYPICAL HALF-SECTION MINIMUM PAVEMENT COMPOSITION FOR FLEXIBLE PAVEMENT

- ITEM 441 \sim 1 $\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448 OR 449), PG64-22
- ITEM 407 ~ TACK COAT, APPLY AS PER TABLE 407.06-1 IN THE CMS
- ITEM 301 ~ 3 1/2" ASPHALT CONCRETE BASE, PG64-22, (449)
- ITEM 304 ~ 9" AGGREGATE BASE
- ITEM 204 ~ SUBGRADE COMPACTION
- ITEM 609 ~ COMBINATION CURB AND GUTTER, TYPE 2, SEE STANDARD DRAWING CC-1
- ITEM 605 ~ 6" PERIMETER PIPE UNDERDRAIN (BOTH SIDES OF STREET) (706.06, 706.07, 706.08, 706.09, 707.33 (PERFORATED), 707.41 (PERFORATED)). BED ACCORDING TO ODOT SPECIFICATION 605.03. BACKFILL ACCORDING TO ODOT SPECIFICATION 605.03. PIPES TO DRAIN TO NEAREST CATCH BASINS AND TO BE PLACED BEFORE CONSTRUCTION OF CURB AND GUTTERS. LOT DRAINS SHALL NOT BE CONNECTED TO PERIMETER PIPE UNDERDRAINS.
- ITEM 659 ~ SEEDING AND MULCHING, USE SEEDING MIXTURE APPROVED BY THE ALLEN COUNTY ENGINEER
- ITEM 608 ~ CONCRETE WALK

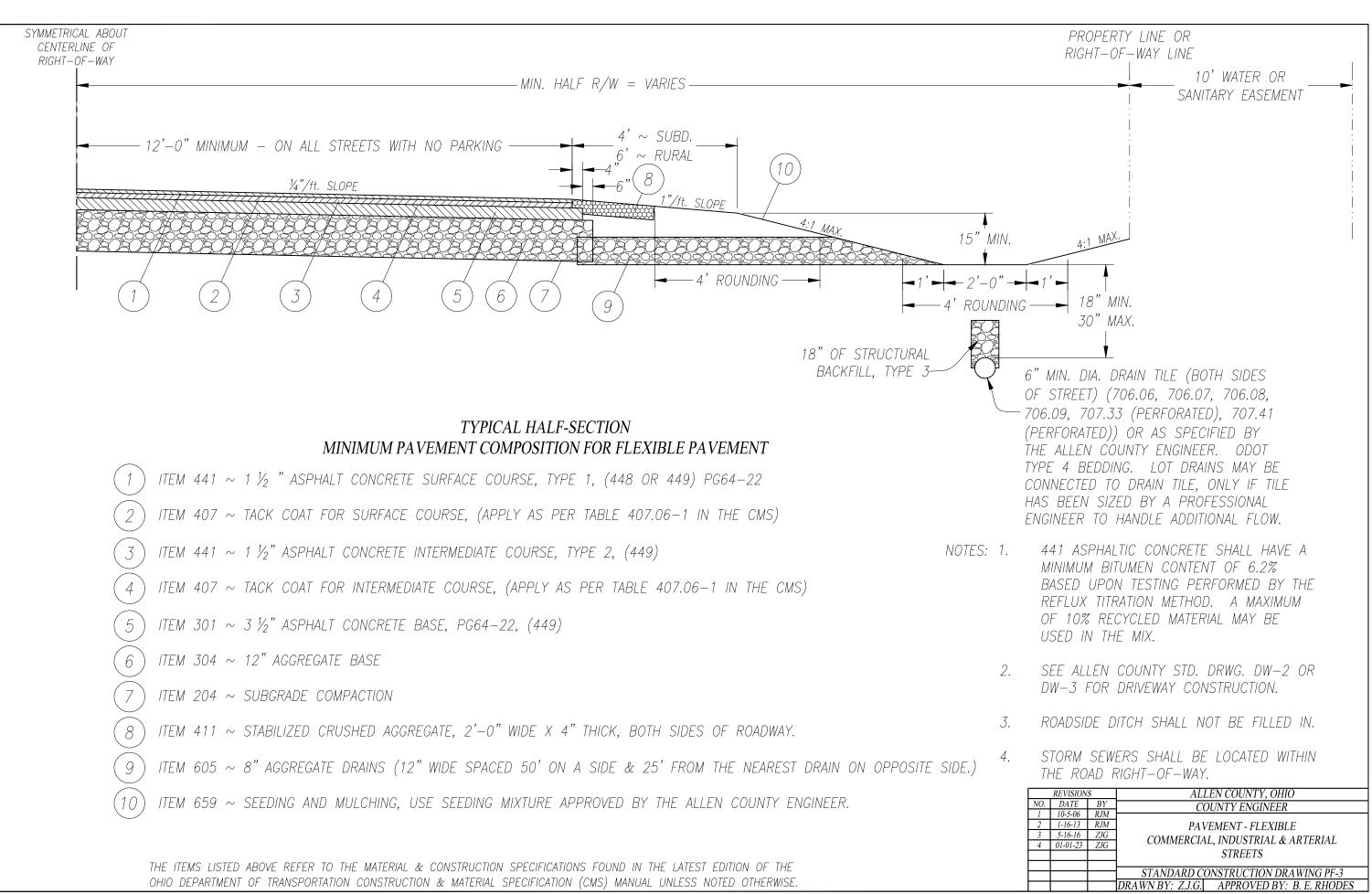
NOTE: 1. 441 ASPHALTIC CONCRETE SHALL HAVE A MINIMUM BITUMEN CONTENT OF 6.2% BASED UPON TESTING PERFORMED BY THE REFLUX TITRATION METHOD. A MAXIMUM OF 10% RECYCLED MATERIAL MAY BE USED IN THE MIX.

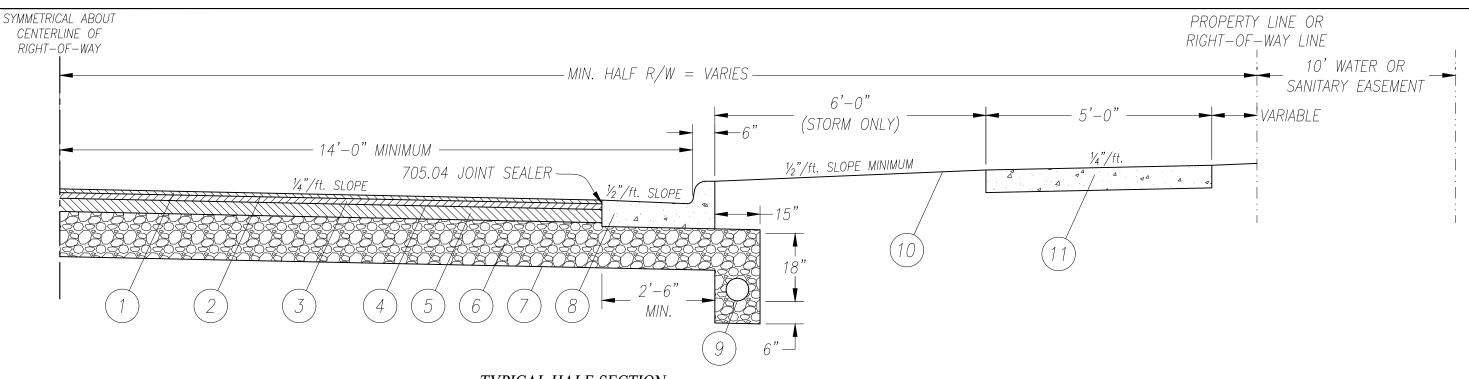
- SEE ALLEN COUNTY STD. DRWG. DW-1 FOR CURB REPLACEMENT FOR DRIVEWAY CONSTRUCTION.
- STORM SEWERS SHALL BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY AND WITHIN SIX (6) FEET OF THE BACK OF CURB.

(WHEN REQUIRED), SEE STANDARD DRAWING DW-1
(WITEN NEGOTIED), SEE SIMINDINO DIVINO DIV

ALLEN COUNTY, OHIO COUNTY ENGINEER PAVEMENT - FLEXIBLE CUL-DE-SAC, LOCAL, SUBCOLLECTOR & **COLLECTOR STREETS** STANDARD CONSTRUCTION DRAWING PF-DRAWN BY: Z.J.G.

THE ITEMS LISTED ABOVE REFER TO THE MATERIAL & CONSTRUCTION SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATION (CMS) MANUAL UNLESS NOTED OTHERWISE.





TYPICAL HALF-SECTION MINIMUM PAVEMENT COMPOSITION FOR FLEXIBLE PAVEMENT

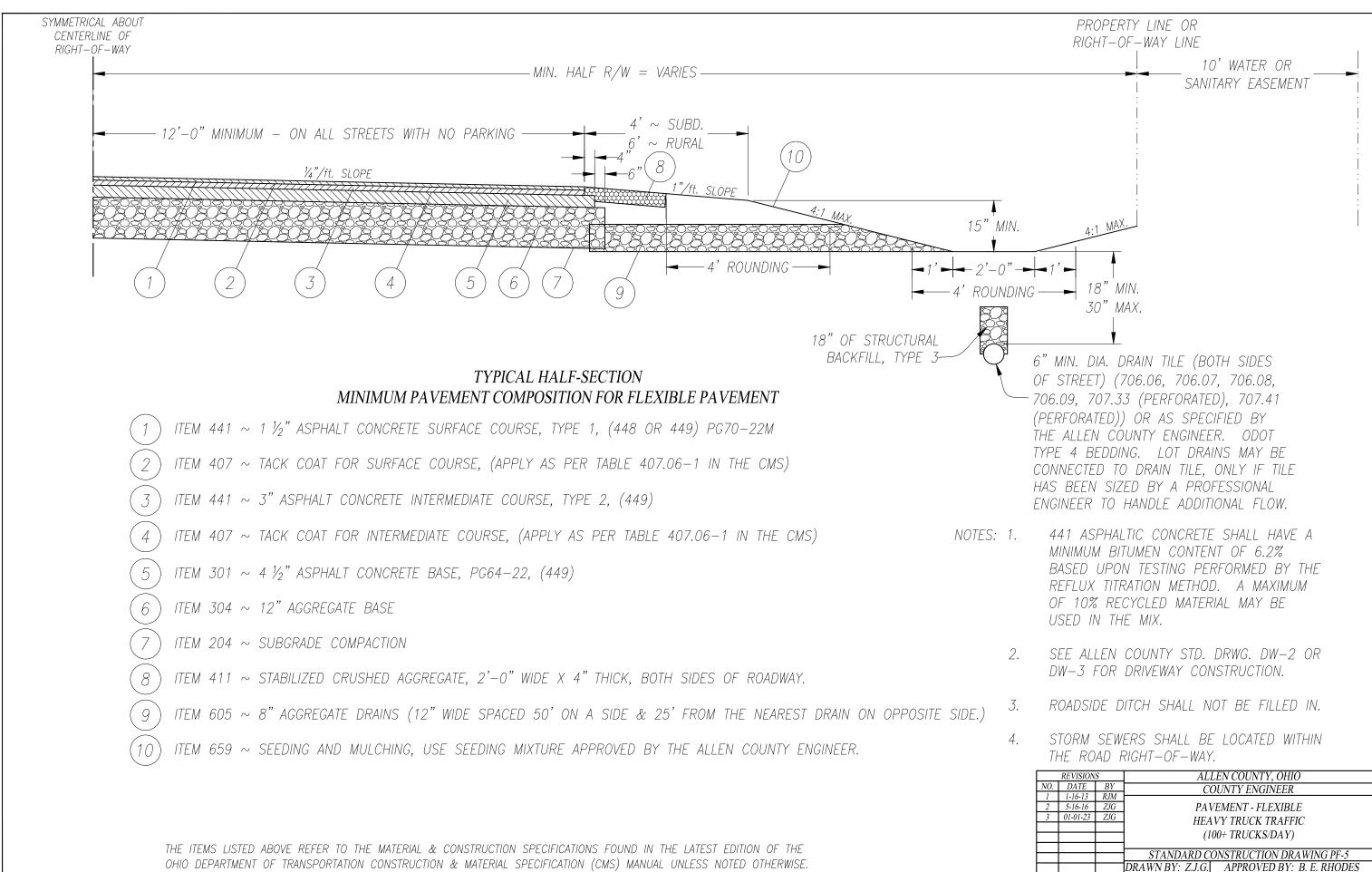
- (1) ITEM 441 \sim 1 $\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448 OR 449) PG64-22
- (2) ITEM 407 \sim TACK COAT FOR SURFACE COURSE, (APPLY AS PER TABLE 407.06–1 IN THE CMS)
- (3) ITEM 441 ~ 1 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- $\left(4\right)$ ITEM 407 \sim TACK COAT FOR INTERMEDIATE COURSE, (APPLY AS PER TABLE 407.06–1 IN THE CMS)
- (5) ITEM 301 \sim 3 $\frac{1}{2}$ " ASPHALT CONCRETE BASE, PG64-22, (449)
- (6) ITEM 304 ~ 12" AGGREGATE BASE
- (7) ITEM 204 ~ SUBGRADE COMPACTION
- (8) ITEM 609 ~ COMBINATION CURB AND GUTTER, TYPE 2, SEE STANDARD DRAWING CC-1
- 9 ITEM 605 ~ 6" PERIMETER PIPE UNDERDRAIN (BOTH SIDES OF STREET) (706.06, 706.07, 706.08, 706.09, 707.33 (PERFORATED), 707.41 (PERFORATED)). BED ACCORDING TO ODOT SPECIFICATION 605.03. BACKFILL ACCORDING TO ODOT SPECIFICATION 605.03. PIPES TO DRAIN TO NEAREST CATCH BASINS AND TO BE PLACED BEFORE CONSTRUCTION OF CURB AND GUTTERS. LOT DRAINS SHALL NOT BE CONNECTED TO PERIMETER PIPE UNDERDRAINS.
- (10) ITEM 659 ~ SEEDING AND MULCHING, USE SEEDING MIXTURE APPROVED BY THE ALLEN COUNTY ENGINEER
- (11) ITEM 608 ~ CONCRETE WALK (WHEN REQUIRED), SEE STANDARD DRAWING DW-1

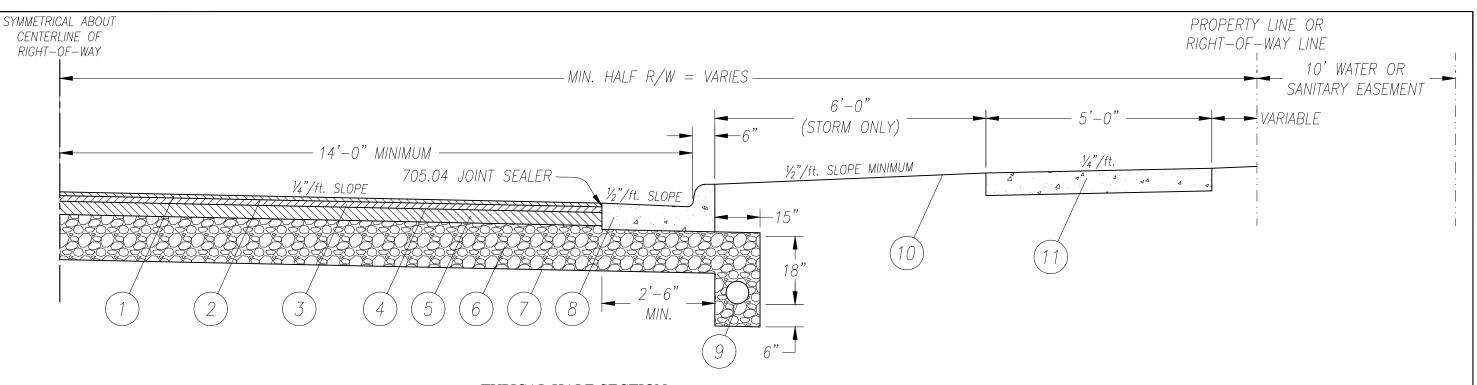
THE ITEMS LISTED ABOVE REFER TO THE MATERIAL & CONSTRUCTION SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATION (CMS) MANUAL UNLESS NOTED OTHERWISE.

- NOTE: 1. 441 ASPHALTIC CONCRETE SHALL HAVE A MINIMUM BITUMEN CONTENT OF 6.2% BASED UPON TESTING PERFORMED BY THE REFLUX TITRATION METHOD. A MAXIMUM OF 10% RECYCLED MATERIAL MAY BE USED IN THE MIX.
 - 2. SEE ALLEN COUNTY STD. DRWG. DW-1 FOR CURB REPLACEMENT FOR DRIVEWAY CONSTRUCTION.
 - 3. STORM SEWERS SHALL BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY AND WITHIN SIX (6) FEET OF THE BACK OF CURB.

REVISIONS		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	3-23-72	RSB	PAVEMENT - FLEXIBLE
2	11-14-89	TJP	111, 2112111 1 221122
3	10-5-06	RJM	COMMERCIAL, INDUSTRIAL &
4	1-16-13	RJM	ARTERIAL STREETS
5	5-16-16	ZJG	W/ CURB AND GUTTERS
6	01-01-23	ZJG	STANDARD CONSTRUCTION DRAWING PF-4
			1DRAWN RV: 7 IGL APPROVED RV: R F RHODES

ALLEN COUNTY ENGINEER'S OFFICE STANDARD CONSTRUCTION DRAWING ~ PF-4





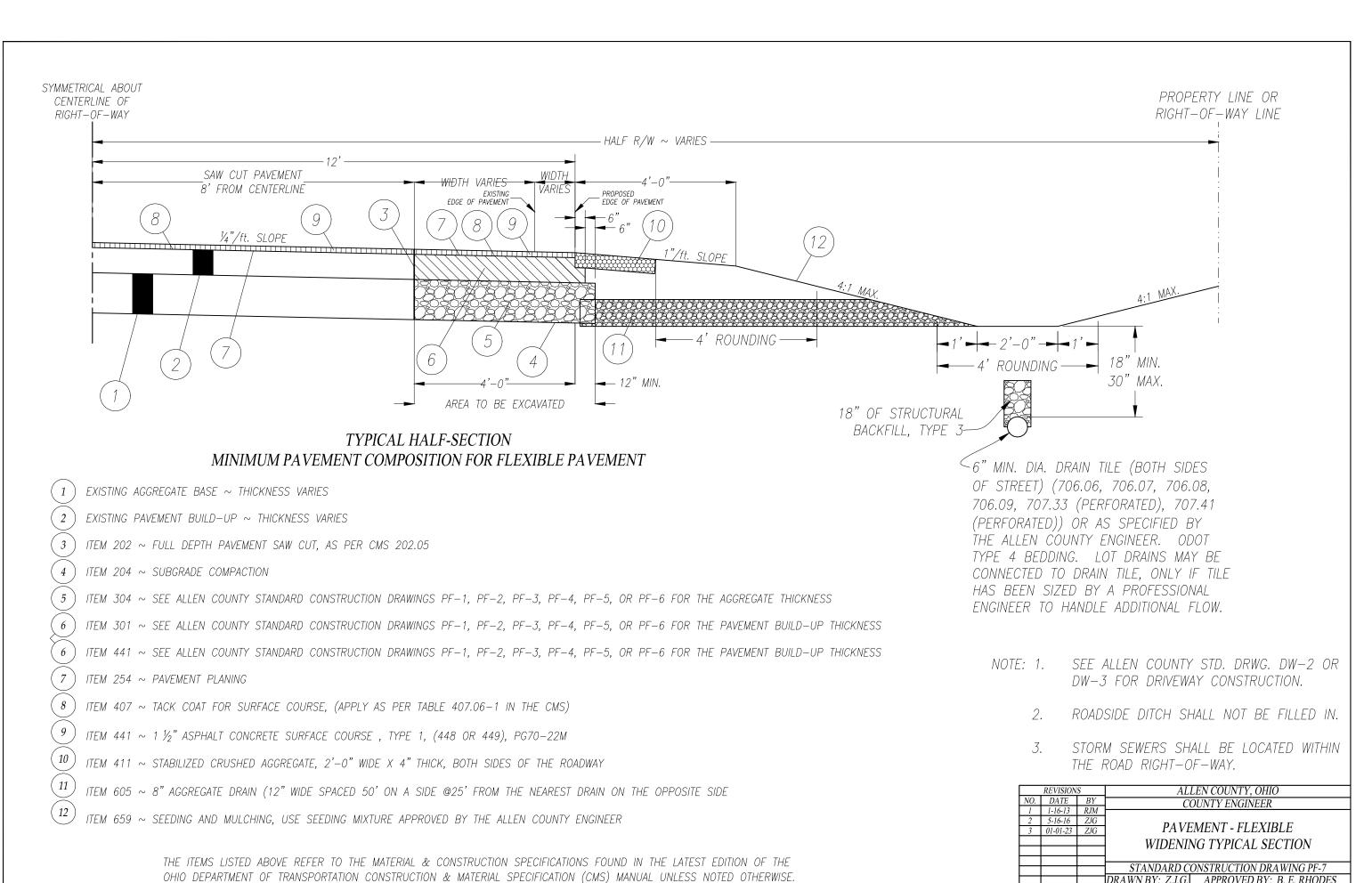
TYPICAL HALF-SECTION MINIMUM PAVEMENT COMPOSITION FOR FLEXIBLE PAVEMENT

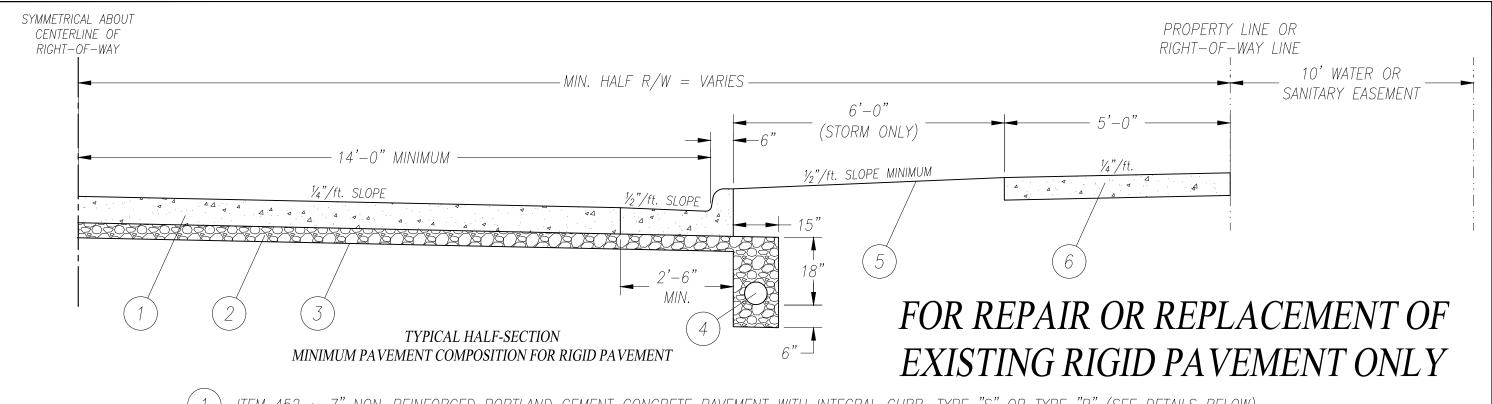
- (1) IITEM 441 \sim 1 $\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448 OR 449) PG70-22M
- (2) ITEM 407 ~ TACK COAT FOR SURFACE COURSE, (APPLY AS PER TABLE 407.06-1 IN THE CMS)
- (3) ITEM 441 \sim 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- 4 ITEM 407 ~ TACK COAT FOR INTERMEDIATE COURSE, (APPLY AS PER TABLE 407.06–1 IN THE CMS)
- (5) ITEM 301 ~ 4 $\frac{1}{2}$ " ASPHALT CONCRETE BASE, PG64-22, (449)
- 6) ITEM 304 ~ 12" AGGREGATE BASE
- (7) ITEM 204 ~ SUBGRADE COMPACTION
- (8) ITEM 609 ~ COMBINATION CURB AND GUTTER, TYPE 2, SEE STANDARD DRAWING CC-1
- 9 ITEM 605 ~ 6" PERIMETER PIPE UNDERDRAIN (BOTH SIDES OF STREET) (706.06, 706.07, 706.08, 706.09, 707.33 PERFORATED),
 707.41 (PERFORATED)). BED ACCORDING TO ODOT SPECIFICATION 605.03. BACKFILL ACCORDING TO ODOT
 SPECIFICATION 605.03. PIPES TO DRAIN TO NEAREST CATCH BASINS AND TO BE PLACED BEFORE CONSTRUCTION
 OF CURB AND GUTTERS. LOT DRAINS SHALL NOT BE CONNECTED TO PERIMETER PIPE UNDERDRAINS.
- (10) ITEM 659 ~ SEEDING AND MULCHING, USE SEEDING MIXTURE APPROVED BY THE ALLEN COUNTY ENGINEER
- (11) ITEM 608 ~ CONCRETE WALK (WHEN REQUIRED), SEE STANDARD DRAWING DW-1

THE ITEMS LISTED ABOVE REFER TO THE MATERIAL & CONSTRUCTION SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIAL SPECIFICATION (CMS) MANUAL UNLESS NOTED OTHERWISE.

- NOTE: 1. 441 ASPHALTIC CONCRETE SHALL HAVE A
 MINIMUM BITUMEN CONTENT OF 6.2%
 BASED UPON TESTING PERFORMED BY THE
 REFLUX TITRATION METHOD. A MAXIMUM
 OF 10% RECYCLED MATERIAL MAY BE
 USED IN THE MIX.
 - 2. SEE ALLEN COUNTY STD. DRWG. DW-1 FOR CURB REPLACEMENT FOR DRIVEWAY CONSTRUCTION.
 - 3. STORM SEWERS SHALL BE LOCATED WITHIN THE ROAD RIGHT—OF—WAY AND WITHIN SIX (6) FEET OF THE BACK OF CURB.

REVISIONS		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	1-16-13	RJM	PAVEMENT - FLEXIBLE
2	5-16-16 01-01-23	ZJG ZJG	HEAVY TRUCK TRAFFIC
	01-01-23	ZJU	(100+ TRUCKS/DAY)
			,
			W/ CURB AND GUTTERS
			STANDARD CONSTRUCTION DRAWING PF-6
			1DD A WALRY - 7 LC ADDDOVED BY B F DHODES

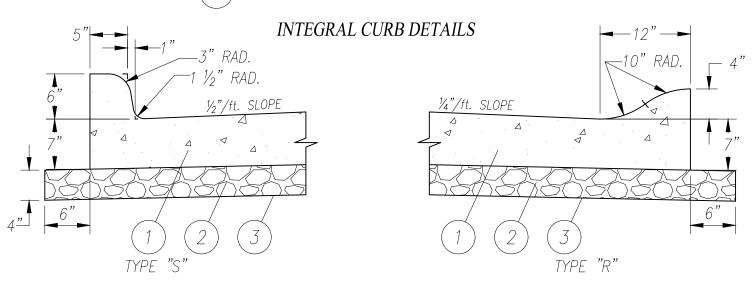




- 1) ITEM 452 ~ 7" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT WITH INTEGRAL CURB, TYPE "S" OR TYPE "R" (SEE DETAILS BELOW).

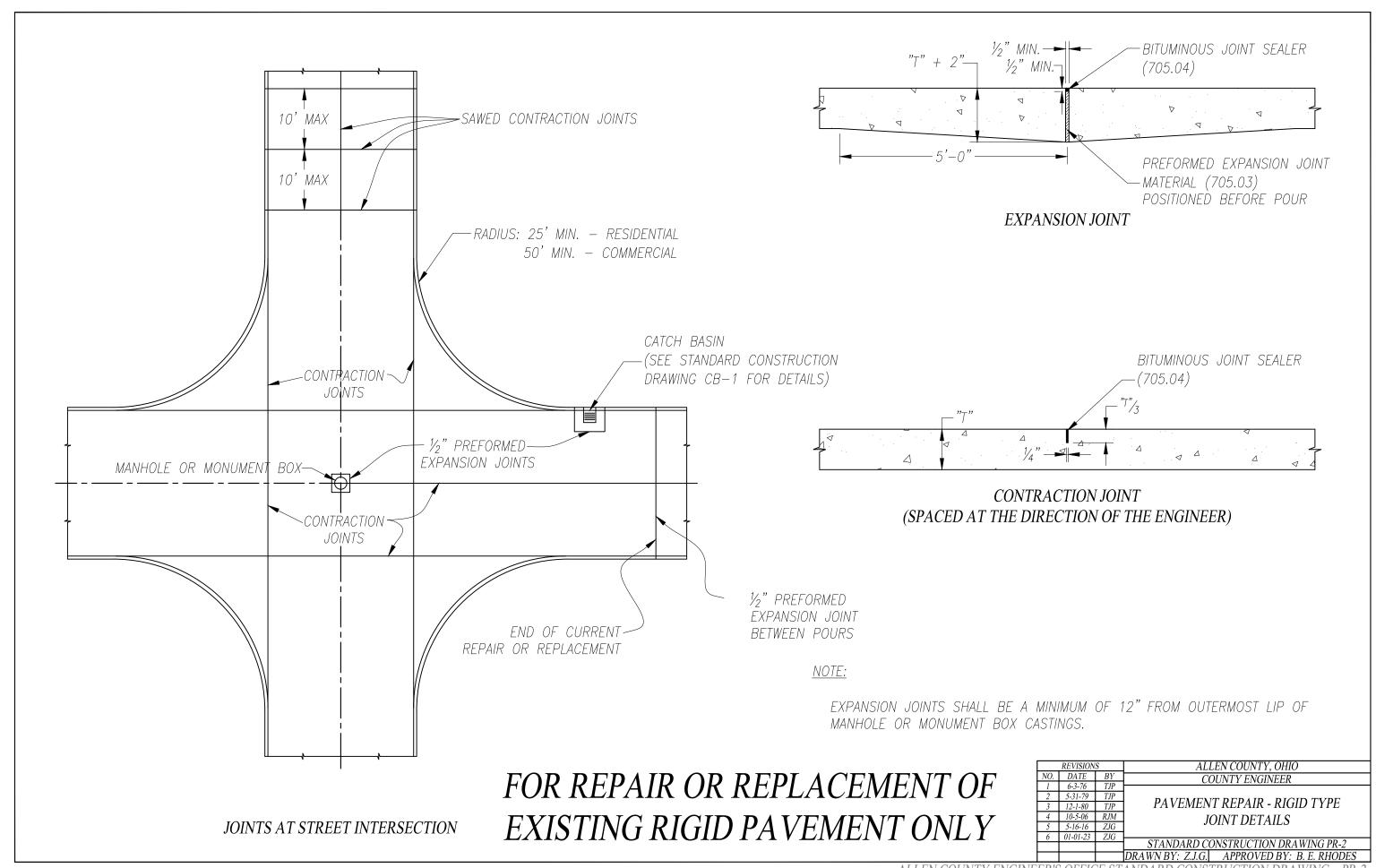
 TYPE "R" MAY ONLY BE USED FOR REPLACEMENT SECTIONS.
- (2) ITEM 304 ~ 6" AGGREGATE BASE
- (3) ITEM 204 \sim SUBGRADE COMPACTION
- 4 ITEM 605 ~ 6" PERIMETER PIPE UNDERDRAIN (BOTH SIDES OF STREET) (706.06, 706.07, 706.08, 706.09, 707.33 (PERFORATED), 707.41 (PERFORATED)).

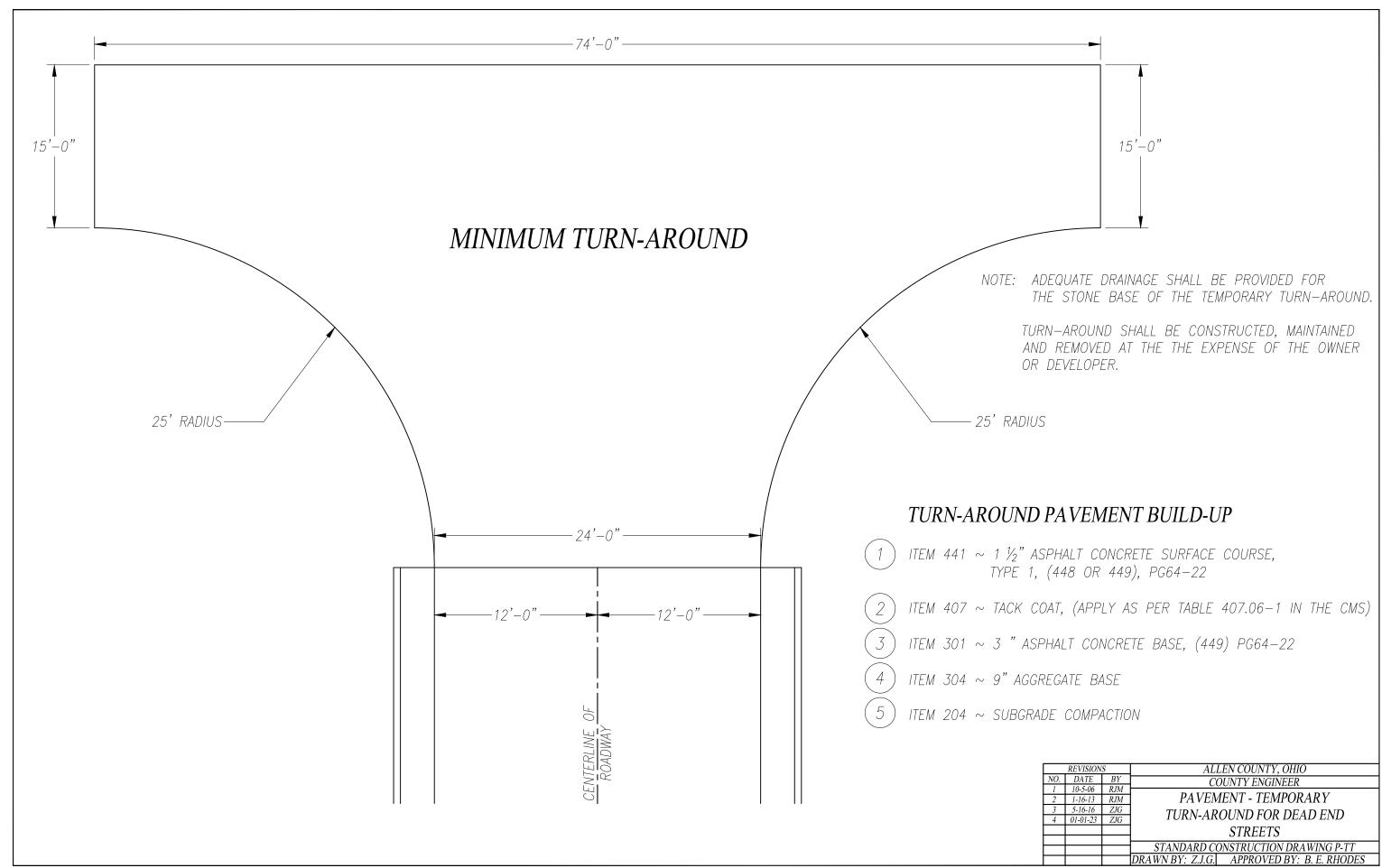
 BED ACCORDING TO ODOT SPECIFICATION 605.03. BACKFILL ACCORDING TO ODOT SPECIFICATION 605.03. PIPES TO DRAIN TO NEAREST CATCH BASINS AND TO BE PLACED BEFORE CONSTRUCTION OF CURB AND GUTTERS. LOT DRAINS SHALL NOT BE CONNECTED TO PERIMETER PIPE UNDERDRAINS.
- (5) ITEM 659 ~ SEEDING AND MULCHING, USE SEEDING MIXTURE APPROVED BY THE ALLEN COUNTY ENGINEER.
- (6) ITEM 608 ~ CONCRETE WALK, SEE STANDARD CONSTRUCTION DRAWING DW-1

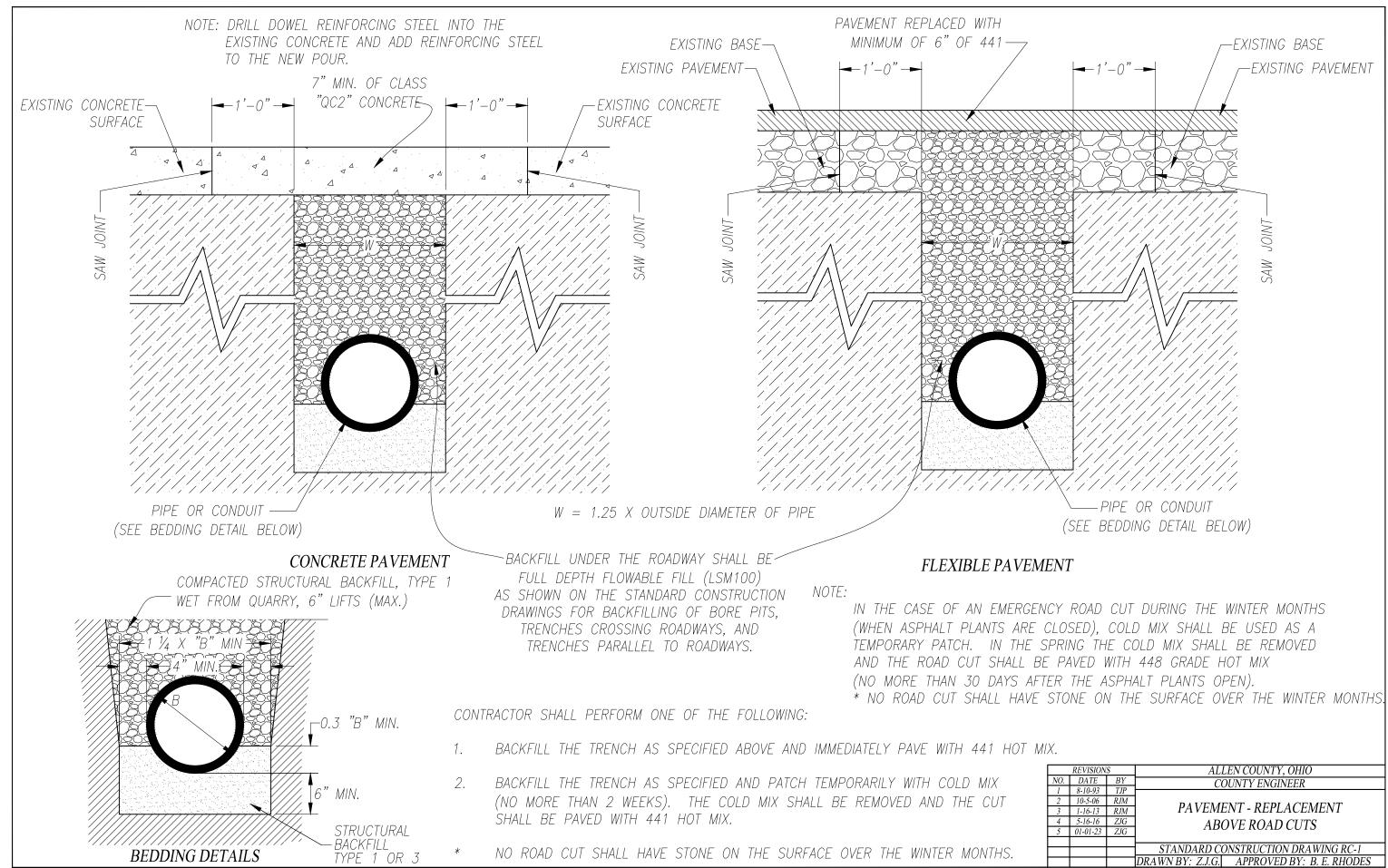


- 1. FOR SEPARATE POURED CURB SEE ALLEN COUNTY STANDARD CONSTRUCTION DRAWING CC-1.
- 2. FOR JOINT AND INTERSECTION DETAILS SEE ALLEN COUNTY STANDARD CONSTRUCTION DRAWING PR-2.
- 3. FOR CURB REPLACEMENT FOR DRIVEWAY CONSTRUCTION SEE ALLEN COUNTY STANDARD CONSTRUCTION DRAWING DW-1.
- 4. STORM SEWERS SHALL BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY AND WITHIN SIX (6) FEET OF THE BACK OF CURB.

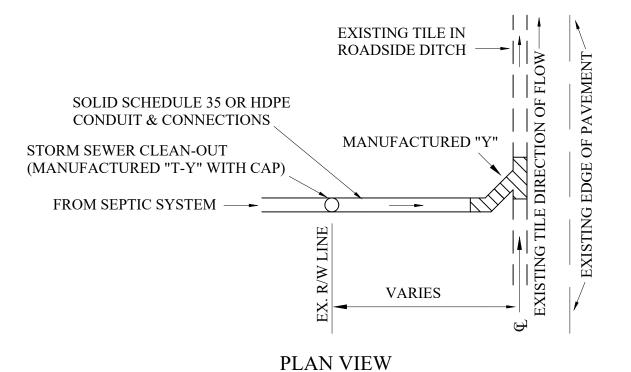
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	REVISIONS		S	ALLEN COUNTY, OHIO
	NO.	DATE	BY	COUNTY ENGINEER
	1	6-4-76	TJP	DAVEMENT DEDAID DICID TVDE
	2	5-30-79	TJP	PAVEMENT REPAIR - RIGID TYPE
	3	10-5-06	RJM	LOCAL, SUB COLLECTOR, COLLECTOR &
	4	1-16-13	RJM	
	5	5-16-16	RJM	ARTERIAL STREETS
	6	01-01-23	ZJG	STANDARD CONSTRUCTION DRAWING PR-1
			l	IDRAWN BY: Z.J.G.L APPROVED BY: B. E. RHODES

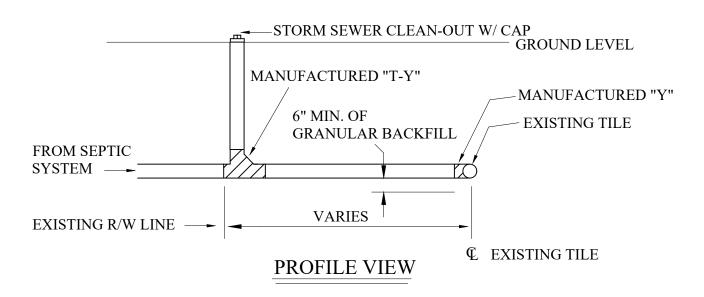






STANDARD CONSTRUCTION DRAWING TAP-TY

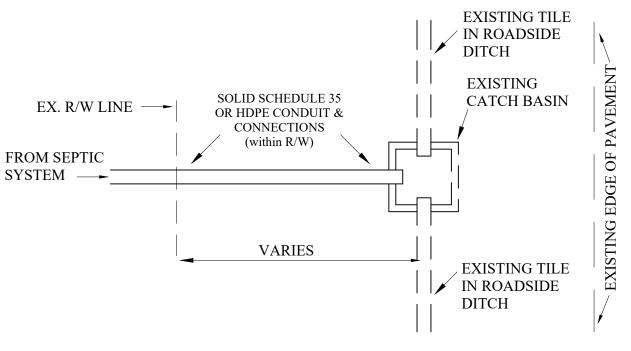




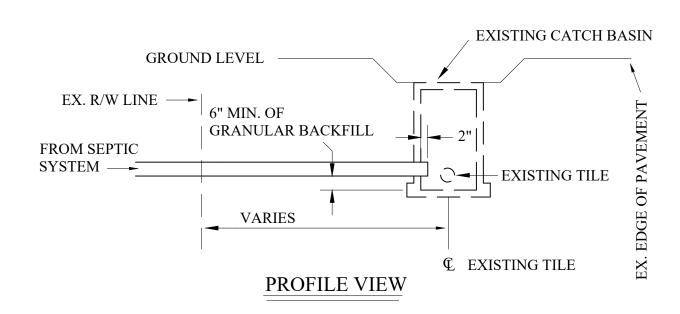
Notes

- ONLY Smooth interior conduit can be used in Right-of-Way (R/W)
- ONLY manufacturer fittings & connection can be used in the Right-of Way (R/W)
- No "T" connections allowed in the Right-of-Way (R/W)
- 4" minimum conduit in Right-of-Way (R/W)

STANDARD CONSTRUCTION DRAWING TAP-CB



PLAN VIEW



REVISION		S	ALLEN COUNTY, OHIO
NO.	DATE	BY	COUNTY ENGINEER
1	3-20-98	DRL	
2	9-21-00	DRL	
3	1-2-04	AMR	ROADSIDE TILE & CATCH BASIN
4	5-16-16	ZJG	TAP STANDARDS
5	01-01-23	ZJG	
			STANDARD CONSTRUCTION DRAWING TAP - TY & CE
			DD AUDIDU ZICL ADDDOUED DU DE DUODEC