CITY OF OZARK STANDARD DETAIL DRAWINGS FOR PUBLIC IMPROVEMENTS



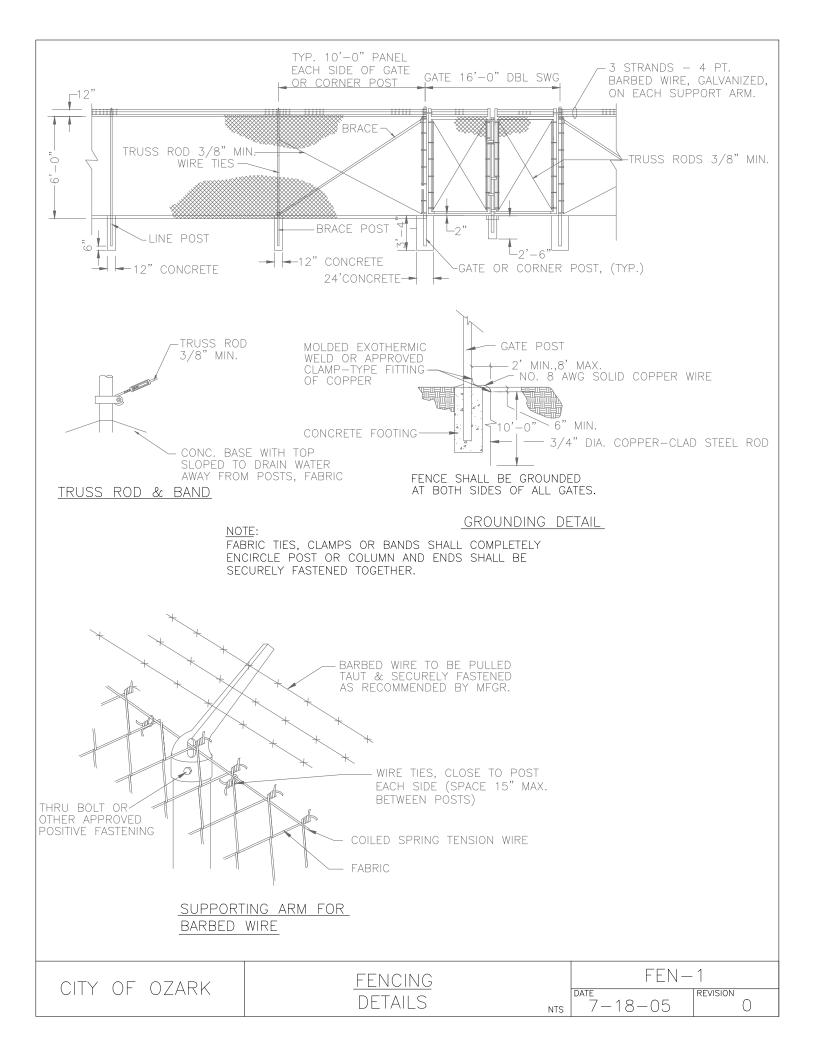
2024 EDITION
CITY OF OZARK, MISSOURI

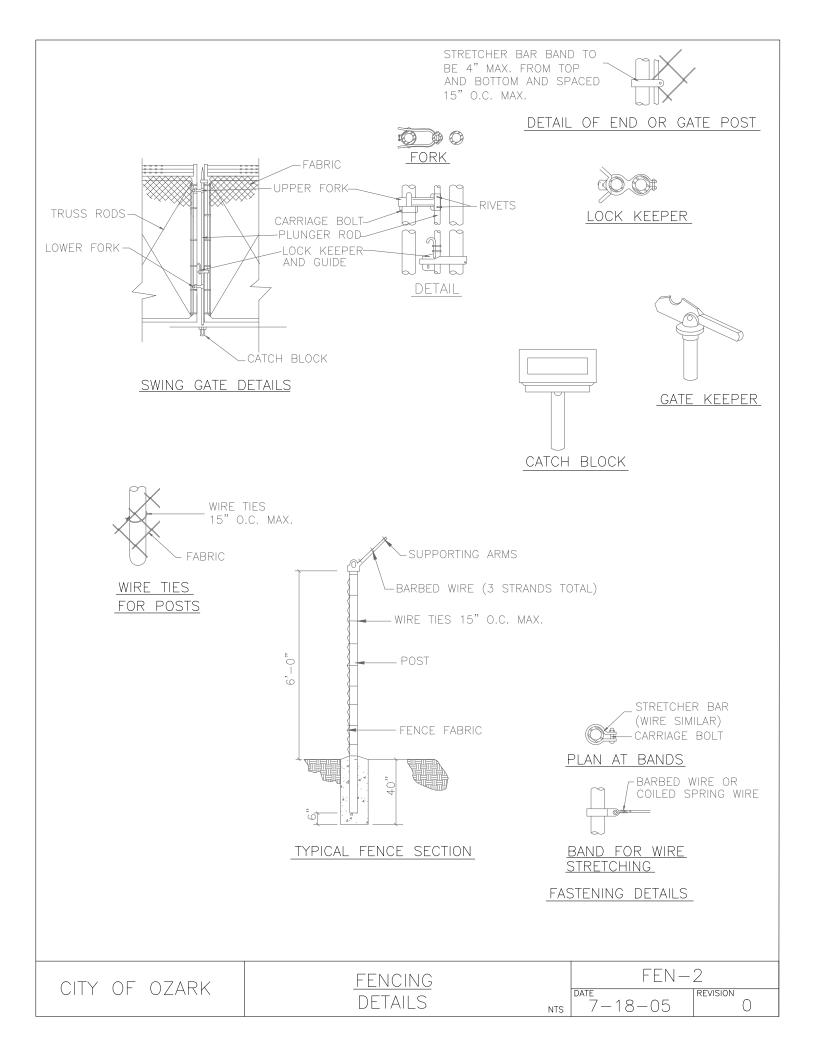
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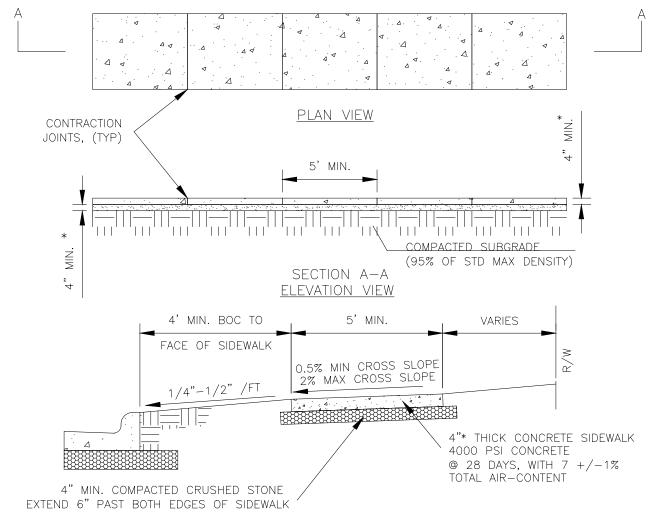
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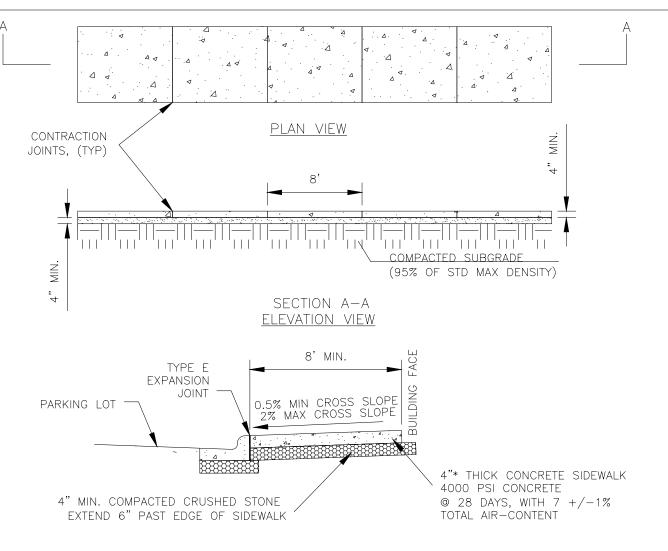




* 4" THICKNESS SHALL BE CHANGED TO 6" AT DRIVEWAYS

5'** CONCRETE SIDEWALK DETAIL

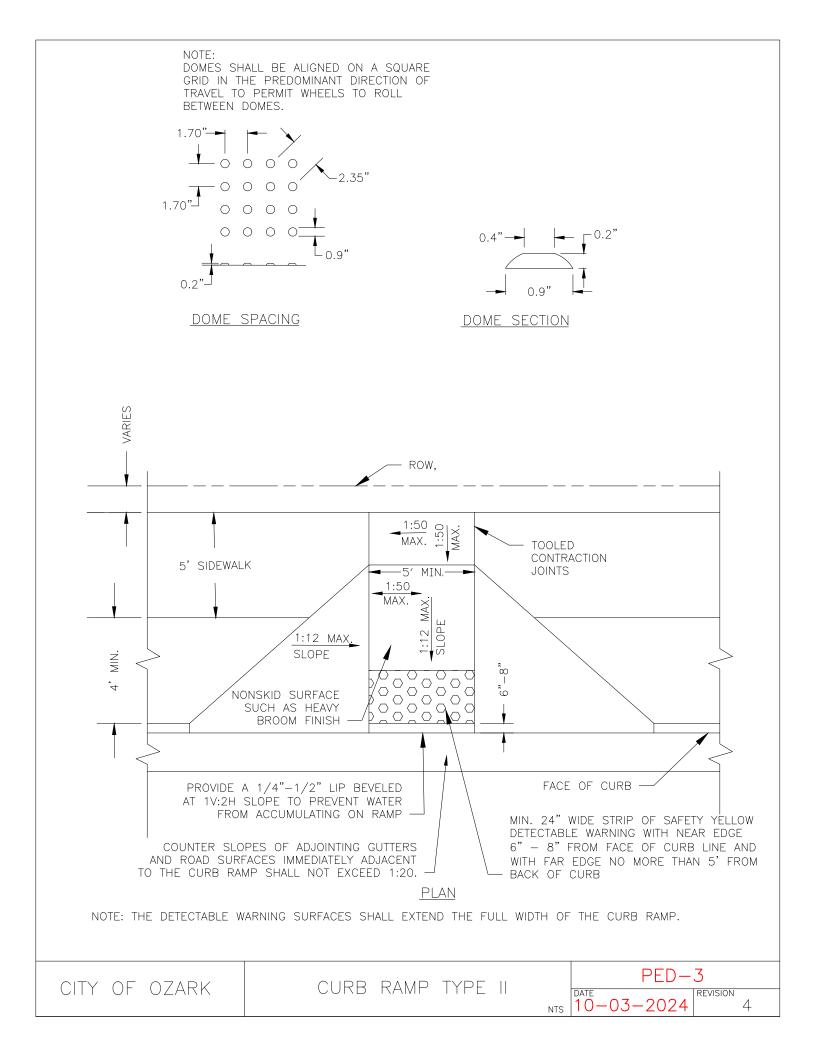
- 1. JOINTS SHALL BE FORMED AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK AND TO THE DEPTHS INDICATED BELOW.
- 2. THE SIDEWALK SHALL BE MARKED OFF INTO SQUARE STONES BY CONTRACTION JOINTS. CONTRACTION JOINTS SHALL BE ONE EIGHTH (1/8) INCH WIDE BY ONE FOURTH (1/4) OF SECTION THICKNESS AND SHALL BE FORMED BY TOOLING.
- 3. EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK ABUTS OTHER STRUCTURES AND SHALL NOT BE SPACED MORE THAN 50 FEET APART ON STRAIGHT RUNS FOR HAND LAID SIDEWALK AND NOT MORE THAN 100 FEET APART ON STRAIGHT RUNS FOR MACHINE LAID SIDEWALKS. EXPANSION JOINTS SHALL BE FORMED BY A THREE-FOURTH, (3/4) INCH THICK PREFORMED JOINT FILLER, EXTENDING THE FULL DEPTH OF THE SLAB, AND SECURED SO THAT THEY ARE NOT MOVED BY DEPOSITING AND COMPACTING THE CONCRETE AT THESE JOINTS.
- ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH THOSE REGULATIONS.
- 5. **ANY SIDEWALK LOCATED ADJACENT TO THE BACK OF CURB SHALL BE HAVE A MINIMUM WIDTH OF 6'.

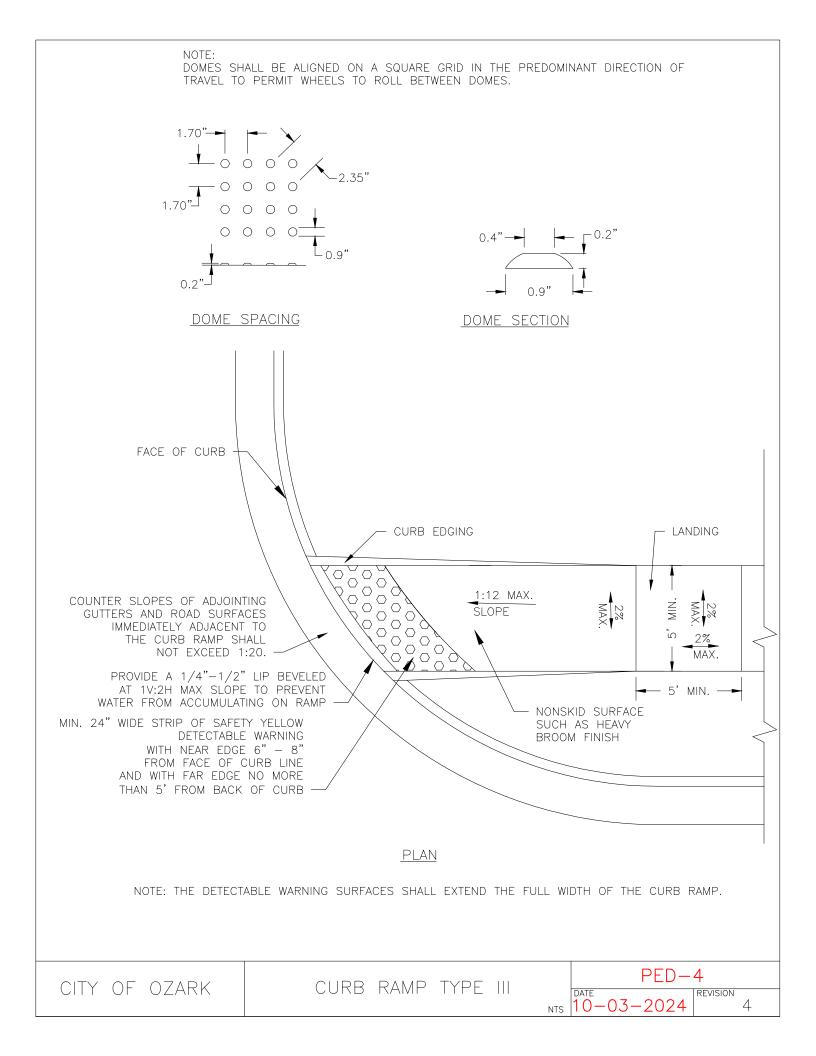


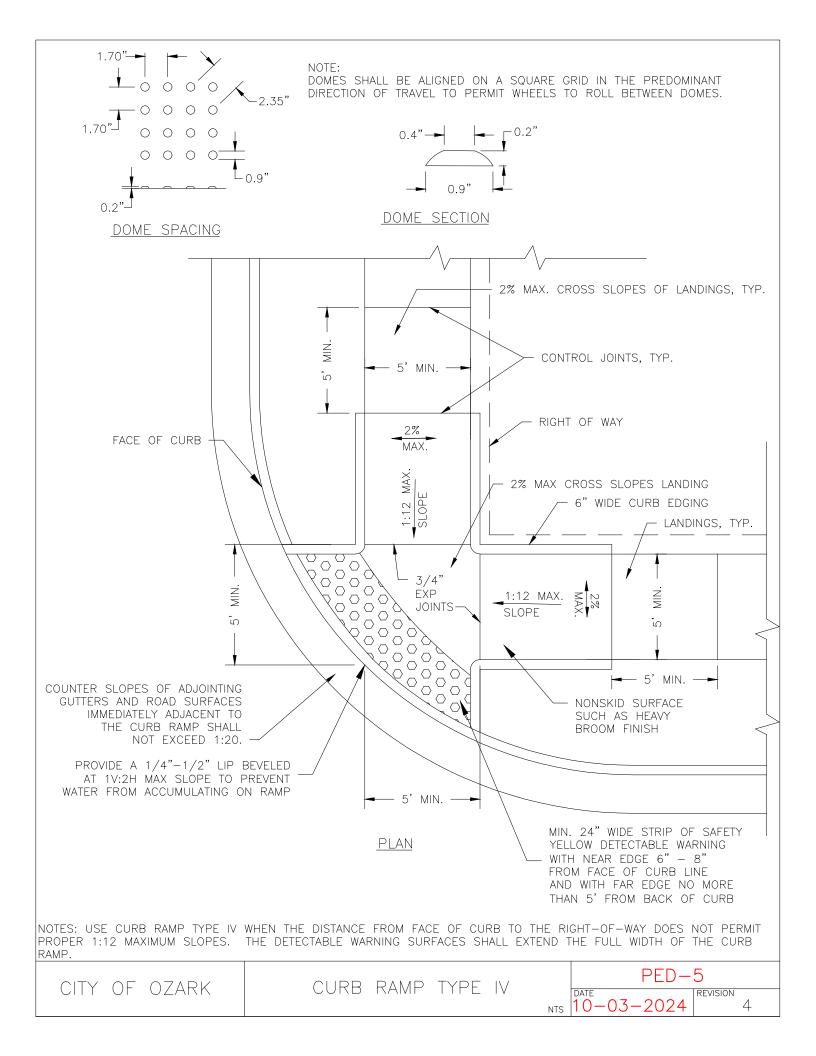
* 4" THICKNESS SHALL BE CHANGED TO 6" AT DRIVEWAYS 8'** CONCRETE SIDEWALK DETAIL

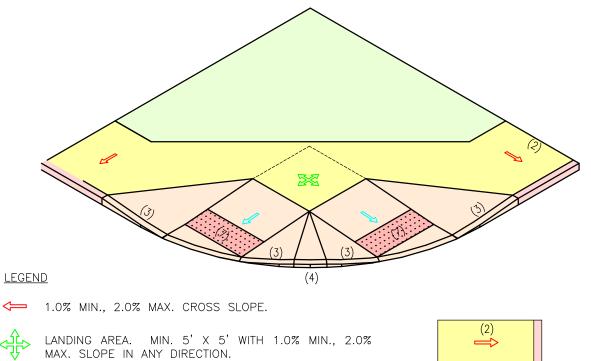
- JOINTS SHALL BE FORMED AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK AND TO THE DEPTHS INDICATED BELOW.
- 2. THE SIDEWALK SHALL BE MARKED OFF INTO SQUARE STONES BY CONTRACTION JOINTS AT 8' INTERVALS. CONTRACTION JOINTS SHALL BE ONE EIGHTH (1/8) INCH WIDE BY ONE FOURTH (1/4) OF SECTION THICKNESS AND SHALL BE FORMED BY TOOLING.
- 3. EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK ABUTS OTHER STRUCTURES AND SHALL NOT BE SPACED MORE THAN 50 FEET APART ON STRAIGHT RUNS FOR HAND LAID SIDEWALK AND NOT MORE THAN 100 FEET APART ON STRAIGHT RUNS FOR MACHINE LAID SIDEWALKS.

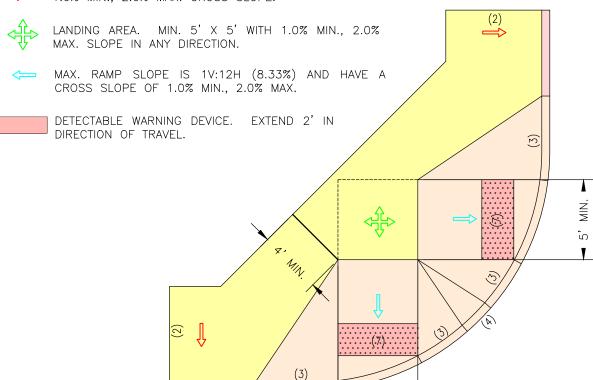
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- 4. **PUBLIC SIDEWALKS LOCATED ADJACENT TO MULTI-STORE FRONT COMMERCIAL BUILDINGS SHALL BE A MINIMUM OF 8' WIDTH.











KEYED NOTES

- (1) VARIABLE CURB HEIGHT. CURB MAY BE ELIMINATED IF UNNECESSARY AND APPROVED BY THE ENGINEER
- (2) SEE PLAN SHEETS FOR WIDTH. SIDEWALKS AT CURB SHALL BE A MINIMUM OF 6' WIDE AND SIDEWALKS WITH A TREE LAWN SHALL BE A MINIMUM OF 5', WIDE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

→ 5' MIN. **→**

- (3) FLARE MAX. SLOPE IS 1V:10H WHEN MEASURED PARALLEL TO CURB LINE.
- (4) CURB HEIGHT BETWEEN THE FLARES MAY RANGE BETWEEN 3" AND 6" AS NECESSARY WITH APPROVAL FROM THE ENGINEER.
- (5) CHAMFER CORNERS AT 45 DEGREE ANGLE.
- (6) 1' WIDE FLARE MAY BE SUBSTITUTED FOR VERTICAL CURB AT THE DISCRETION OF THE ENGINEER FOR NO ADDITION COST.
- (7) DETECTABLE WARNING DEVICES ARE NOT USED ON EVERY CURB RAMP INSTALLED. SEE SITE PLAN FOR LOCATIONS WITH DETECTABLE WARNING DEVICES.

LEGEND

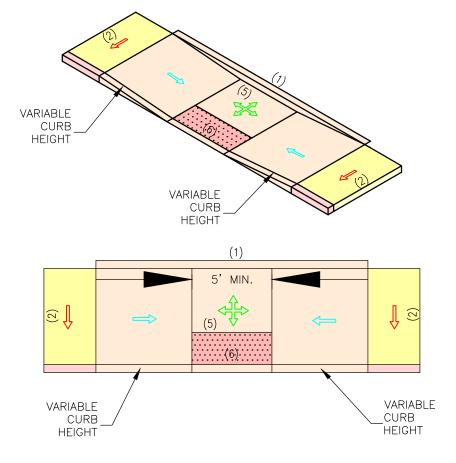
← 1.0% MIN., 2.0% MAX. CROSS SLOPE.



LANDING AREA. MIN. 5' X 5' WITH 1.0% MIN., 2.0% MAX. SLOPE IN ANY DIRECTION.

MAX. RAMP SLOPE IS 1V:12H (8.33%) AND HAVE A CROSS SLOPE OF 1.0% MIN., 2.0% MAX.

DETECTABLE WARNING DEVICE. EXTEND 2' IN DIRECTION OF TRAVEL.



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LEGEND

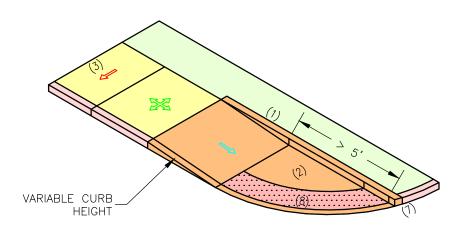
1.0% MIN., 2.0% MAX. CROSS SLOPE.

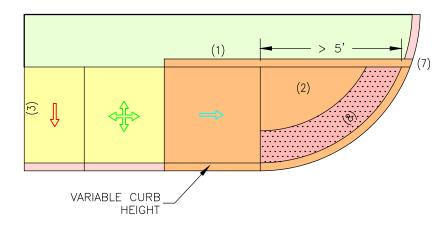


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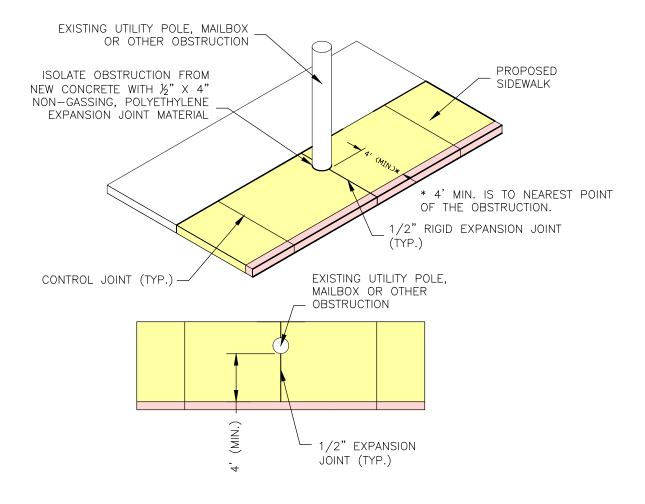




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- (3) FLARE MAX. SLOPE IS 1V:10H WHEN MEASURED PARALLEL TO CURB LINE.
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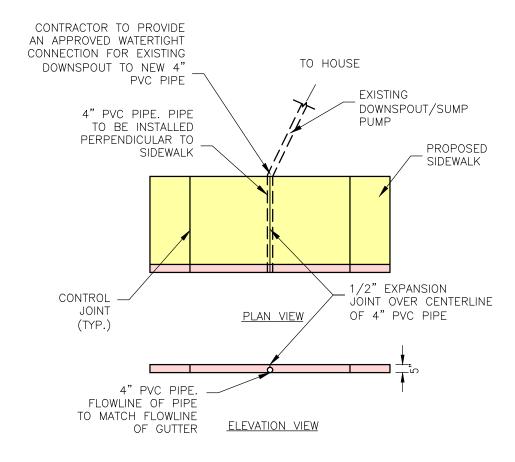
<u>CURB RAMP, PERPENDICUL</u> LARGE RADIUS DETAIL

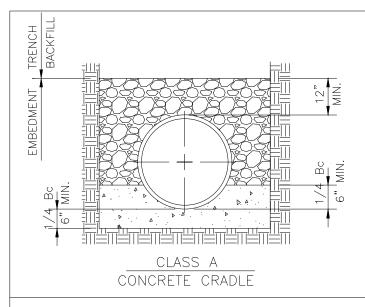


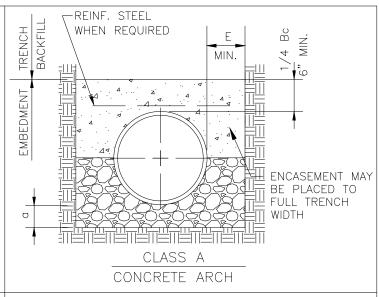
- 1. THERE SHALL BE A 4' MIN. TRAVEL PATH BETWEEN THE BACK OF CURB AND OBSTRUCTION OR THE OBSTRUCTION AND BACK EDGE OF SIDEWALK.
- 2. FOR MAILBOXES, THE 4' MIN. TRAVEL PATH SHALL BE ON THE BACKSIDE OF THE MAILBOX TO ENSURE ACCESS FOR POSTAL EMPLOYEES.

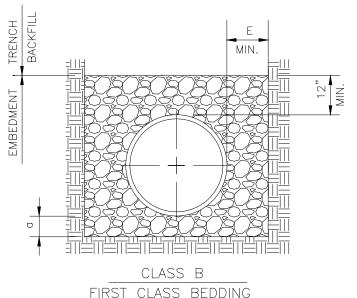
ALL DOWNSPOUT PIPE UNDER SIDEWALK SHALL BE 4" SCHEDULE 40 PVC PIPE.

CONTRACTOR SHALL EXTEND EXISTING DOWNSPOUTS AS NECESSARY TO PROVIDE ADEQUATE DRAINAGE TO FLOWLINE OF GUTTER.









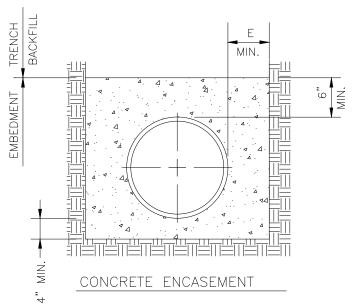


TABLE OF EMBEDMENT DEPTHS BELOW PIPE

	SOIL TRENCH	
BEDDING CLASS	PIPE O.D.	a MIN.
A AND B	16" AND SMALLER	4"
A AND B	LARGER THAN 16"	1/4 O.D.

	ROCK TRENCH	
BEDDING CLASS	PIPE O.D.	a MIN.
A AND B	24" AND SMALLER	6"
A AND B	LARGER THAN 24"	1/4 O.D.

E = 12" (LESS THAN 27" DIA. PIPE)

E = ID/2 (27" TO 60" PIPE)

E = TO BE DETERMINED (LARGER THAN 60" PIPE)

LEGEND

BC OUTSIDE DIA. OF PIPE A EMBEDMENT BELOW PIPE CONCRETE

UNDISTURBED EARTH

PIPE SIZE	CITY REQUIRED		
(IN)	MIN. RADIUS (FT)		
2	90		
4	170		
6	250		
8	325		
10	405		
12	480		

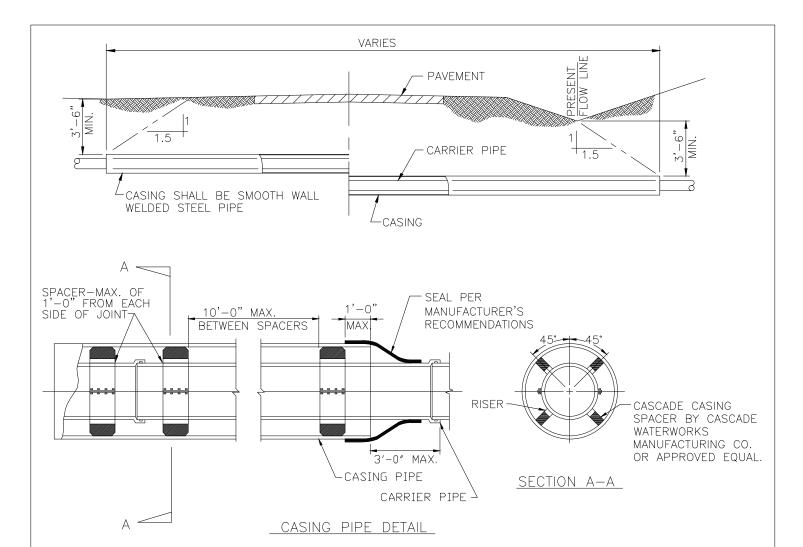
NOTE:

- 1. ALL UTILITIES SHALL BE INSPECTED AND APPROVED BY THE CITY OF OZARK PRIOR TO BACKFILLING.
- 2. EXTEND GRANULAR EMBEDMENT MATERIAL TO THE BASE MATERIAL UNDER IMPROVED SURFACES
- 3. COMPACT GRANULAR EMBEDMENT IN 6" MAX. LIFTS TO 95% STANDARD PROCTOR DENSITY.
- 4. COMPACT TRENCH BACKFILL IN 12" MAX. LIFTS TO 85% OF THE MAX. DENSITY FOR UNIMPROVED AREAS AND 95% OF THE MAX. DENSITY FOR IMPROVED AREAS.
- 5. PROVIDE TRACER WIRE UNDER ALL WATER MAINS AND SERVICES AND ALL SEWERS SERVICES AND FORCE MAINS.

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6. PROVIDE APPROPRIATE WARNING TAPE 18" TO 24" BELOW FINISH GRADE AT ALL WATER MAINS AND SEWER MAINS AND ALL SERVICES.

EMBEDMENT OF PIPE DFTAIL PIPE-1
09-01-2023 REVISION 6



DETAIL NOTES:

- 1. DEPTH OF BORING PIT SHALL BE AS REQUIRED.
- 2. THE DRILLED HOLE FOR THE CASING PIPE SHALL BE SLIGHTLY UNDERSIZED AND THE PIPE JACKED THROUGH TO ELIMINATE VOIDS BETWEEN PIPE AND HOLE.
- 3. BOTH ENDS OF CASING WILL BE SEALED AS PER MANUFACTURER'S RECOMMENDATION.
- 4. #12 AWG COPPER CLAD STEEL TRACER WIRE SHALL BE PROVIDED. THE TRACER WIRE SHALL BE TOTALLY ANNEALED 1055 STEEL, EXTRA HIGH STRENGTH WITH A BREAK LOAD OF 1150 LB AND A 45 MI MINIMUM HDPE COATING.
- 5. MATERIALS TO BE USED FOR THIS PURPOSE SHALL NOT BE LESS THAN TEN FOOT LENGTHS.
- 6. ALL JOINT ENDS SHALL BE CUT AT 90 DEGREES TO THE LONGITUDINAL AXIS OF THE PIPE.
- 7. EACH END SHALL BE BEVELED AND JOINTS SHALL BE BUTT WELDED AROUND THE ENTIRE PERIMETER OF THE PIPE.
- 8. TWO TRACER WIRES SHALL BE PROVIDED, INSTALLED ON OPPOSITE SIDES OF THE PIPE, WITH ONE WIRE AS BACKUP. TRACER WIRES SHALL BE PULLED THROUGH THE CASING PIPE IN CONJUNCTION WITH THE CARRIER PIPE. TRACER WIRE SPLICES ARE NOT PERMITTED WITHIN THE BORE SECTION.

SMOOTH WALL, WELDED STEEL PIPE WITH A MINIMUM WALL THICKNESS AS FOLLOW WILL BE PERMITTED:

CASING DIAMETER (INCHES)	MINIMUM WALL THICKNESS
LESS THAN 6	0.250
6, 8, 10, 12, 14, 16	0.250
18, 20, 22	0.250
24, 26	0.281
28, 30, 32, 34	0.312
36, 38, 40, 48	0.344

CITY OF OZARK

BORE/ENCASEMENT
DETAIL

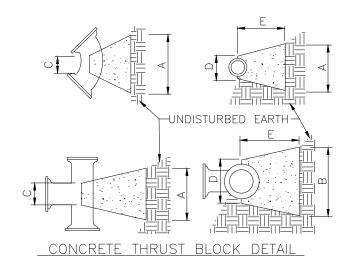
PIPE-2

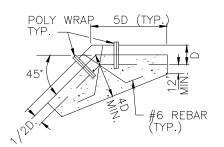
DATE
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REVISION
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PIPF		DIST	ANCE IN	INCH	ES	
SIZE	FITTING	Α	В	С	D	E
4"	11.25 & 22.5°	32	28	3	7	14
AND	45°	32	28	4	7	14
SMALLER	90°	34	28	6 7	7	14
SWIALLEN	TEE/PLUG	36 35	28		7	14
	11.25 & 22.5°	35	29	4	9	15
6"	45°	36	29	6 7	9	15
0	90°	38	29		9	15
	TEE/PLUG	40	29 31 31	9 5 6 9	9	15
	11.25 & 22.5°	38	31	5	11	17
8"	45°	40	31	6	11	17
^	90°	52	34	9	11	22
	TEE/PLUG	44	31	11	11	17
10"	11.25 & 22.5°	44	34	7	15	19
10" & 12"	45°	47/59	37	10	15	24
α,,	90°	70/91	38/44	13	15	30/39
12	TEE/PLUG	57/71	35/39	15	15	22/28
1 4 "	11.25 & 22.5°	53	38	7	19	23
14"	45°	72/85	45	10	19	31/37
& 16"	90°	108/129	49/55	18	19	46/56
10	TEE/PLUG	88/102	47	19	19	35/41
	11.25 & 22.5°	61	41	9	22	26
18"	45°	98	50	11	22	44
'0	90°	142	58	20	22	61
	TEE/PLUG	118	52	22	22	48

- THRUST BLOCKS ARE BASED ON A WORKING PRESSURE OF 200 P.S.I., 36" COVER, & 2000 P.S.F. ALLOWABLE SOIL BEARING PRESSURE.
- 2. FOR PIPE SIZES NOT SHOWN USE DIMENSIONS FOR NEXT LARGER SIZE.
- 3. CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL.
- 4. ALL THRUST BLOCKS TO BE INSPECTED BY CITY OF OZARK BEFORE BACKFILLING.





MJ FITTING WITH RETAINER GLANDS REQUIRED FOR ALL VERTICAL BENDS 180 DEG.

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NOTE; ALSO PROVIDE MEGALUG RETRAINED JOINTS ON BOTH SIDES OF VERTICAL THRUST BLOCK.

VERTICAL BEND THRUST BLOCK DETAIL

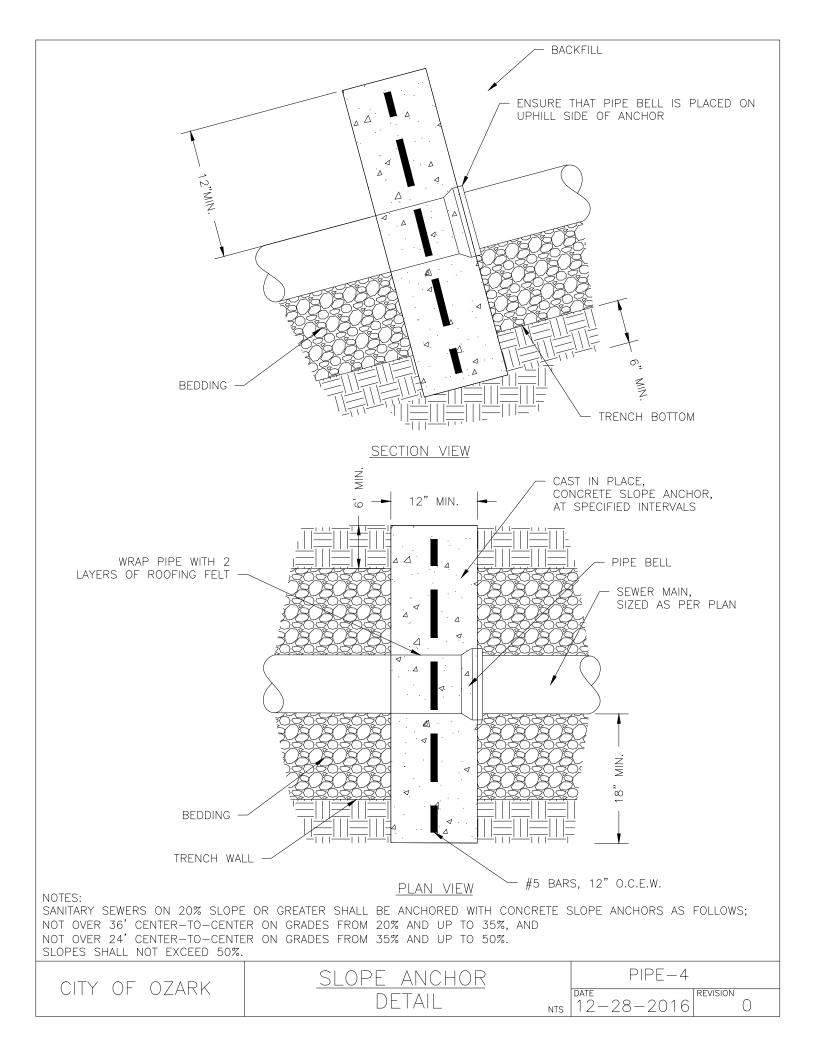
CITY OF OZARK

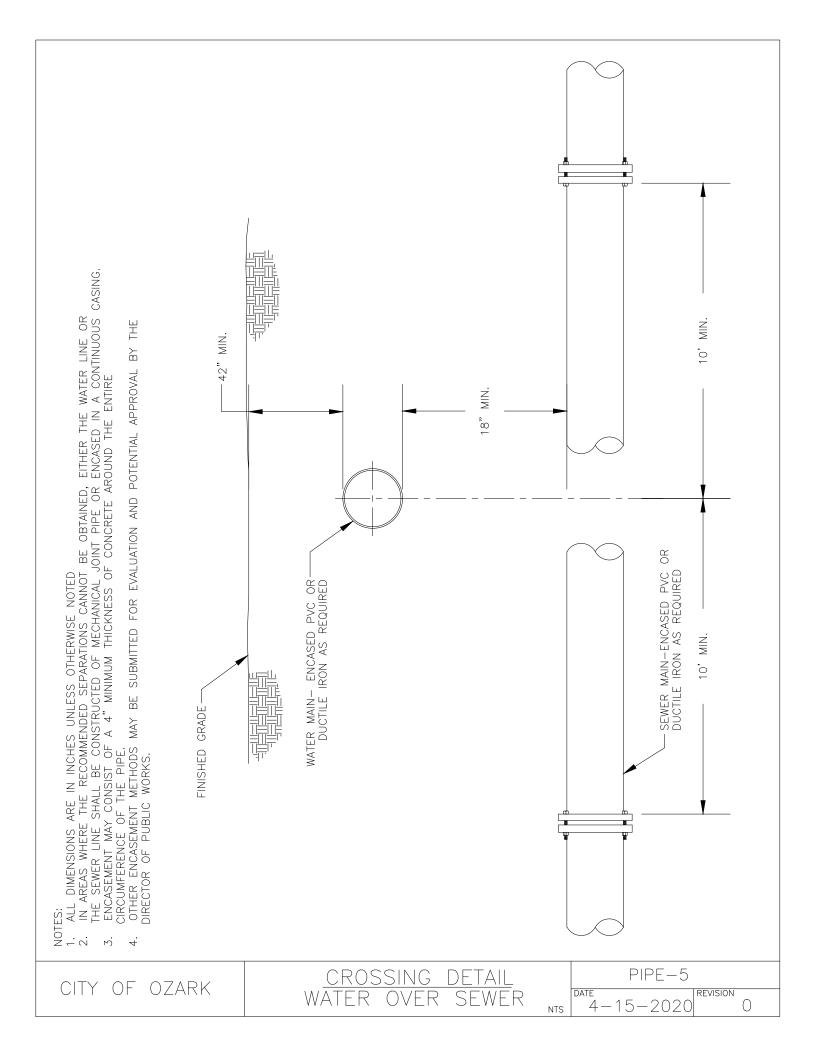
THRUST BLOCK
DETAILS

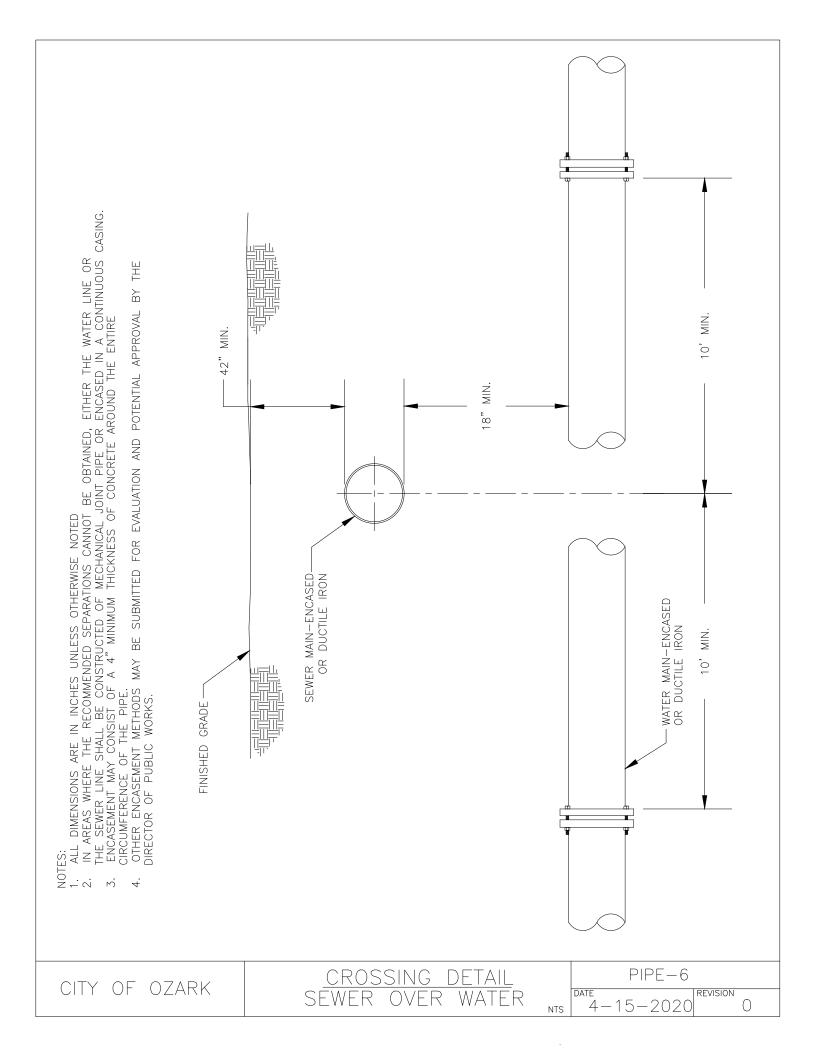
PIPE-3

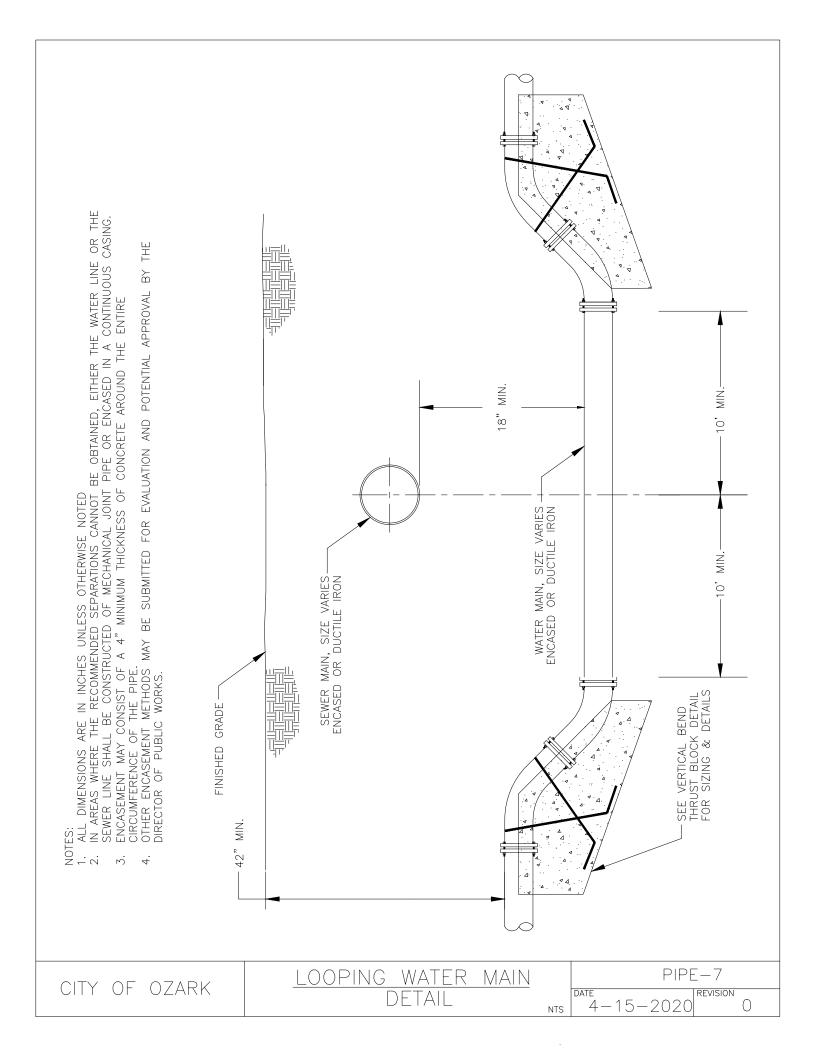
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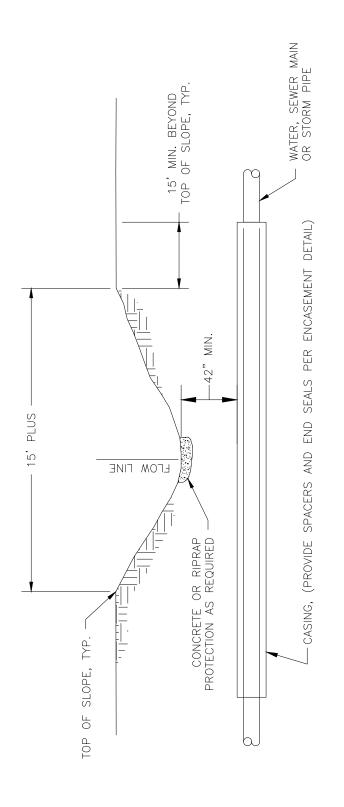
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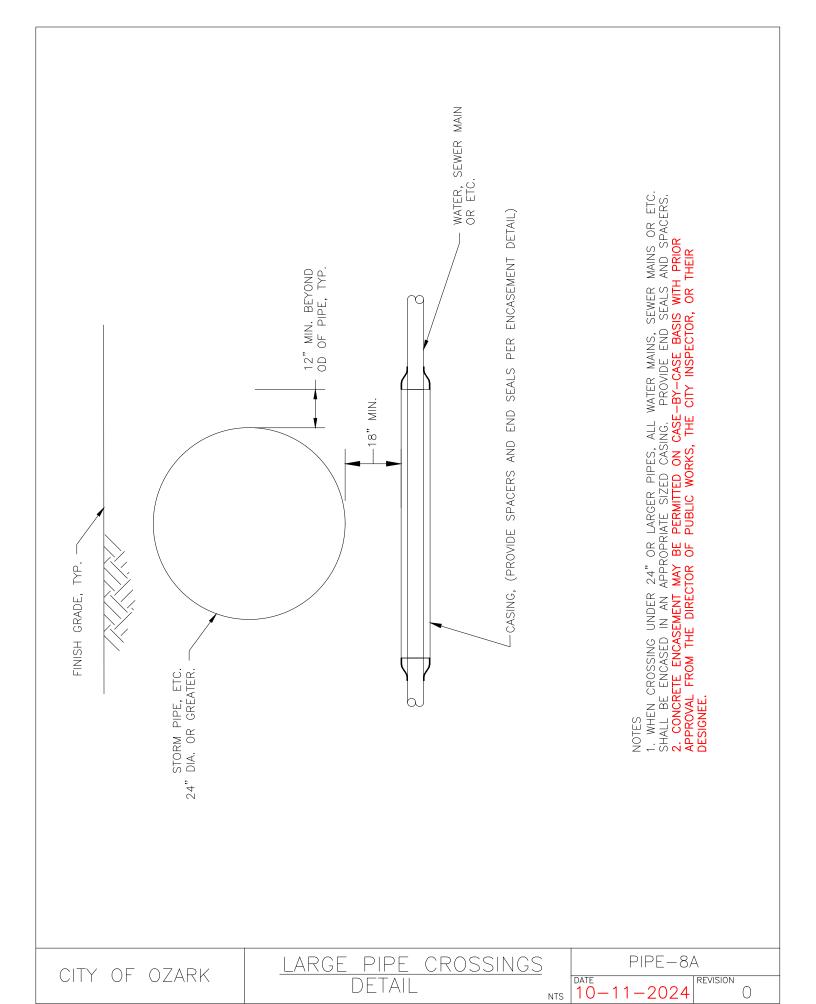


WHEN CROSSING WATERWAYS OR WET WEATHER STREAMS THAT EXCEED 15' WIDTH FROM TOP OF SLOPE, ALL WATER MAINS, SEWER MAINS OR STORM PIPES SHALL BE ENCASED IN AN APPROPRIATE SIZED CASING. THE STREAM CROSSING AT THE PIPE LOCATION SHALL BE HARDENED WITH CONCRETE OR RIPRAP PROTECTION AS REQUIRED. NOTE;

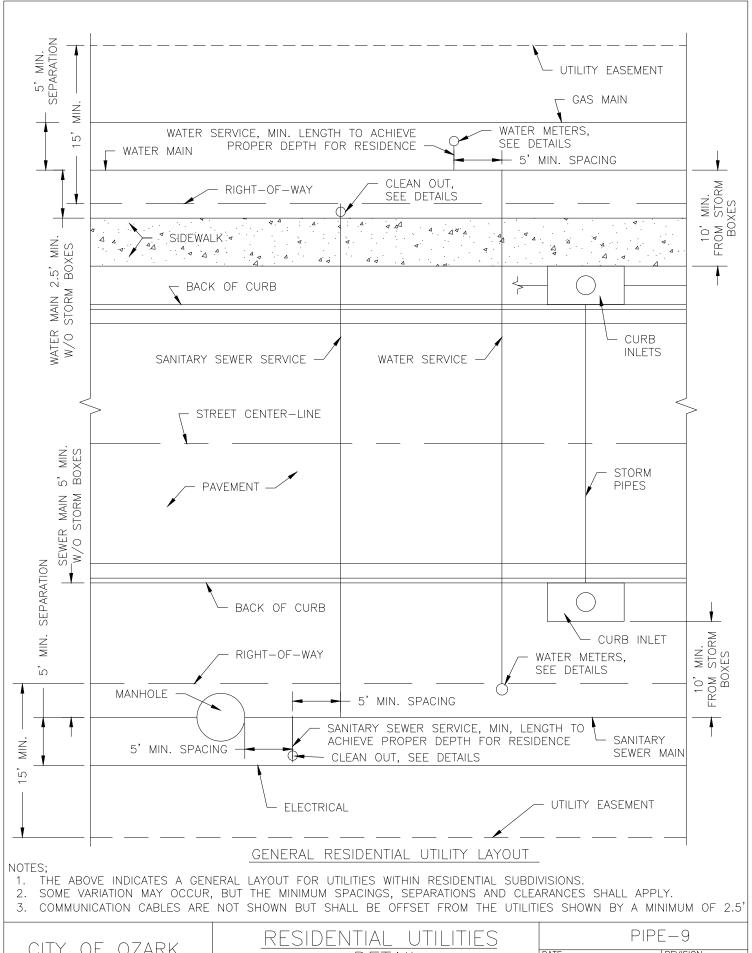
WATERWAY CROSSINGS DETAIL PIPE-8

3-20-2017

REVISION



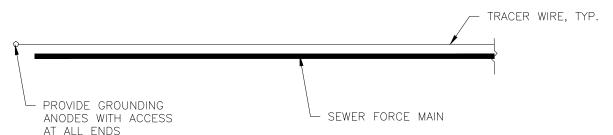
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RESIDENTIAL UTILITIES
DETAIL CITY OF OZARK

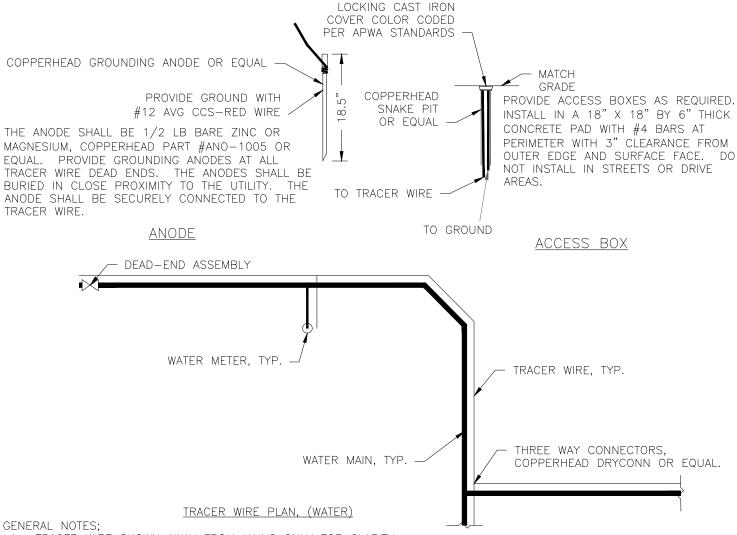
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TRACER WIRE PLAN, (SEWER FORCE MAINS)

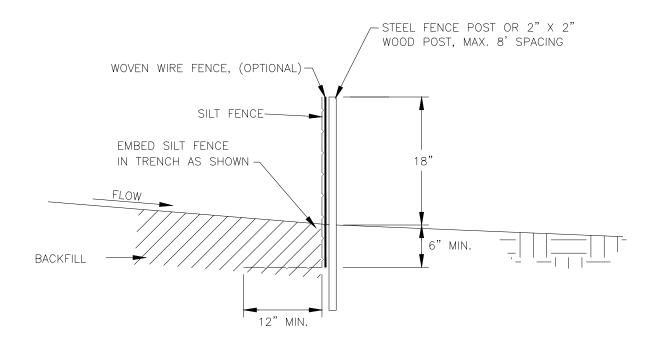
TRACE WIRE AND DETECTABLE MARKING TAPE. A TRACE WIRE AND DETECTABLE MARKING TAPE SHALL BE INSTALLED THE ENTIRE LENGTH OF ANY FORCE MAIN. TRACER WIRE SHALL BE ACCESSIBLE FROM THE SURFACE AT INTERVALS NOT TO EXCEED 1000—FEET OF DEVELOPED PIPE LENGTH APART, AND ADJACENT TO ALL AIR VALVE VAULTS. TERMINAL/ACCESS BOXES SHALL BE GRADE LEVEL, IN—GROUND TYPE SPECIFICALLY MANUFACTURED FOR SUCH APPLICATIONS. TERMINAL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE AND CENTERED IN GRADE LEVEL REINFORCED CONCRETE PAD, MINIMUM 18" BY 18" BY 6" THICK, AT LOCATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE. IN ADDITION TO TRACE WIRE, A DETECTABLE MARKING TAPE SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES SHALL BE INSTALLED THE ENTIRE LENGTH OF THE FORCE MAIN. MARKING TAPE SHALL BE INSTALLED DIRECTLY OVER FORCE MAIN AT A DEPTH OF 18— TO 24—INCHES BELOW FINISHED GRADE.



1. TRACER WIRE SHOWN AWAY FROM MAINS ONLY FOR CLARITY.

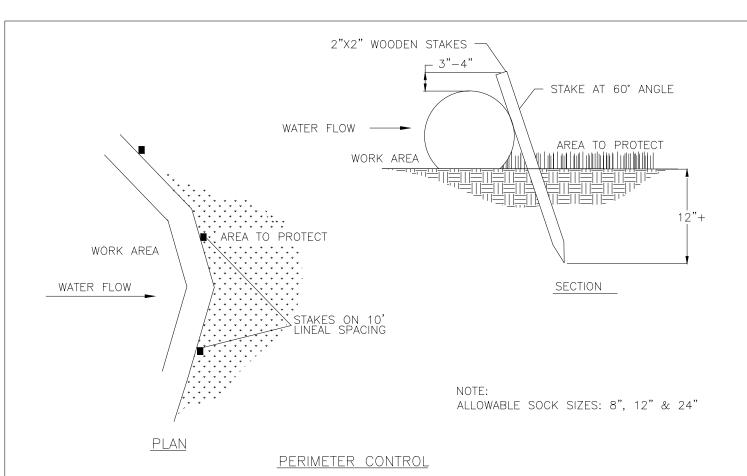
- 2. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF ALL WATER AND FORCE MAINS AND WATER AND SEWER SERVICES BELOW THE SPRING LINE.
- 3. TRACER WIRE SHALL BE #12 AWG COPPER CLAD STEEL, HIGH STRENGTH, TOTALLY ANNEALED 1055 STEEL WITH A BREAK LOAD OF 452 LB AND A 30 MI MINIMUM THICKNESS HDPE COATING.
- 4. WIRE SHALL BE PROPERLY GROUNDED AT ALL DEAD ENDS/STUBS.
- 5. PROVIDE TRACER WIRE ACCESS AT ALL WATER VALVES AND METER PITS AND AIR RELIEF VALVES.

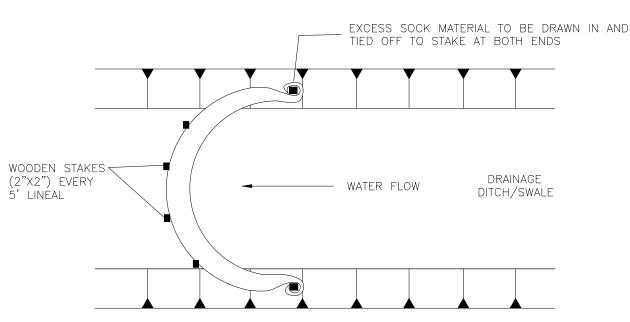
DETAIL DATE REVISION 2	CITY OF OTADIA	TRACER WIRE	SCHEMATIC	PIPE-1()
NISTO OU ZUZTI Z	CIT OF OZARK	1 /1 AII	NTS	5-03-2021	REVISION 2



- 1. PLACE SILT FENCE AT DOWNSLOPE LIMIT OF AREA TO BE GRADED.
- 2. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE SUPPORT POSTS.
- 3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
- 4. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 5. ACCUMULATED SILT/SEDIMENT SHALL BE REMOVE WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF IN AN APPROVED SPOIL SITE.
- 6. AT EACH END OF SILT FENCE, TURN FENCE UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18".
- 7. PRE-FABRICATED SILT FENCE PRODUCTS MAY BE SUBSTITUTED IF APPROVED BY THE CITY OF OZARK.
- 8. SILT-SOX IS AN APPROVED SUBSTITUTE.

SILT FENCE		SEC-	1
DETAIL	NTS	4-26-07	REVISION 2





NOTES;

- 1. FOLLOW THE MANUFACTURER'S SPECIFICATIONS.
- 2. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.

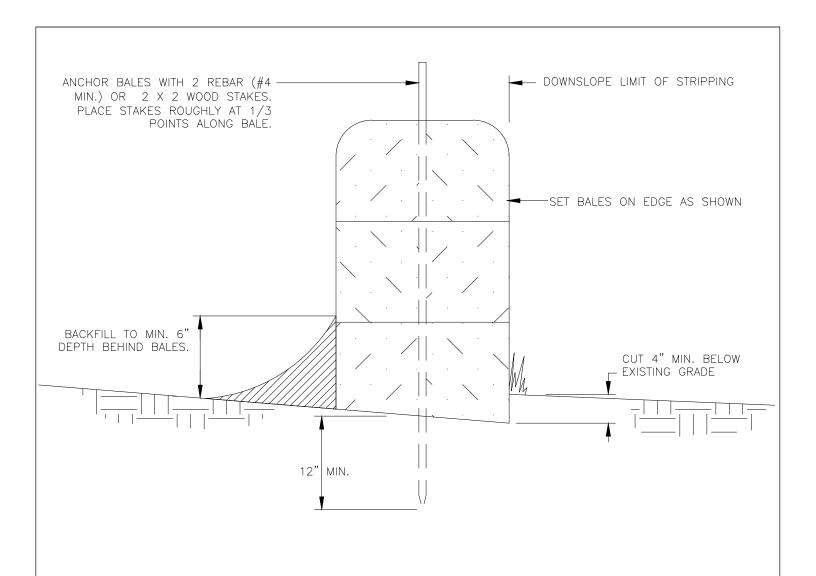
DITCH CHECK

- 3. SILT SOX MAY BE REMOVED WHEN IT HAS SERVED IT'S USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 4. ACCUMULATED SILT AND SEDIMENT SHALL BE REMOVE WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF IN AN APPROVED SPOIL SITE.
- 5. SILT SOCK SPACING SHALL BE PER THE CITY'S DESIGN STANDARDS.

CITY OF OZARK

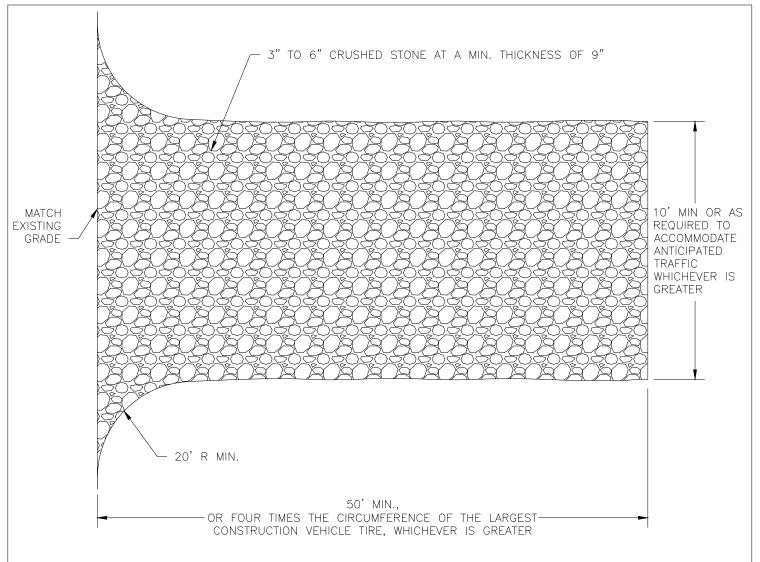
SILT SICK
DETAIL

NTS DATE | REVISION | 3



- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES, WHERE POSSIBLE.
- 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES.
- 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS TO NOT BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF IN AN APPROVED SITE.
- 7. AT EACH END OF DIKE, TURN DIKE UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18".

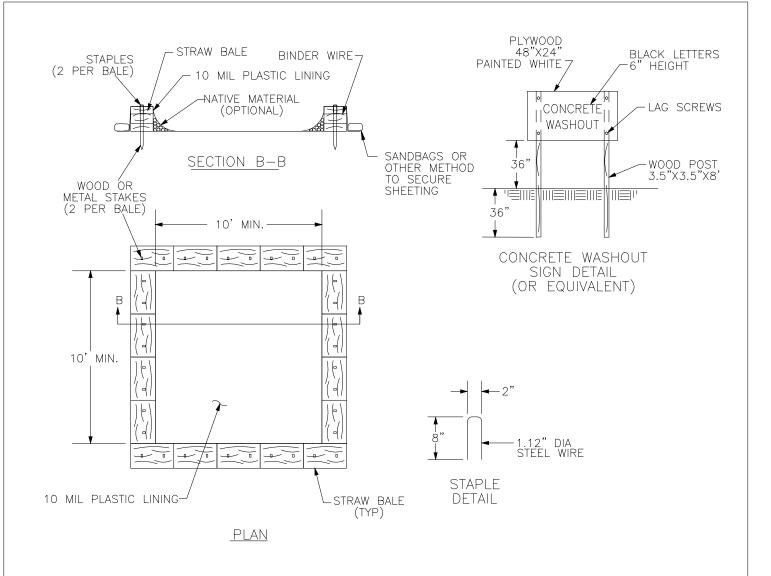
CITY OF OZARK STRAW BALE DIKE DFTAIL DATE TABLE DIKE DATE DATE TABLE DIKE DATE DATE TABLE DIKE DATE DATE DATE DATE TABLE DIKE DATE DA			
NTS / - 10-03 0	CITY OF OZARK	<u> </u>	DATE REVISION



PLAN

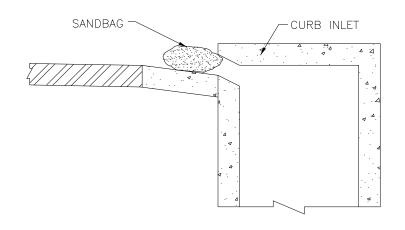
NOTES;

- 1. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION WORK BEING ACCOMPLISHED. AVOID LOCATING ON STEEP SLOPES, AT CURVES ON PUBLIC ROADS OR DOWNHILL OF DISTURBED AREAS. REMOVE ALL VEGETATION AND UNSUITABLE MATERIAL FROM THE FOUNDATION AREA. A GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE FILL AND THE EARTH SURFACE..
- 2. PROPERLY GRADE EACH CONSTRUCTION ENTRANCE/EXIT TO PREVENT RUNOFF FROM LEAVING THE SITE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO SEDIMENT CONTROL DEVICE. IF THE SLOPE TOWARD THE PUBLIC ROAD EXCEEDS 2%, CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 1/3 SIDE SLOPES TO DIVERT ANY RUNOFF AWAY FROM THE PUBLIC ROAD.
- 3. INSTALL CULVERT UNDER ENTRANCE IF REQUIRED TO MAINTAIN POSITIVE DRAINAGE.
- ALL VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ACCESS.
- 5. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE INSPECTED WEEKLY AND AFTER 1/2" STORM EVENTS.
- 6. REPLACE ROCK, IF NECESSARY, TO MAINTAIN A CLEAN SURFACE AND REPAIR ANY AREAS THAT HAVE SETTLED.
- 7. IMMEDIATELY RÉMOVE ANY MUD OR DEBRIS TRACKED ONTO PAVED SURFACES.
- REMOVE ALL CONSTRUCTION ENTRANCE/EXIT WHEN VEHICLES AND EQUIPMENT WILL NO LONGER ACCESS UNPAVED AREAS.

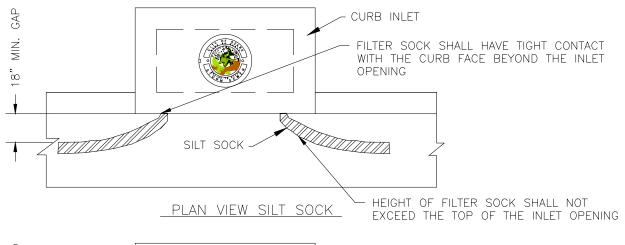


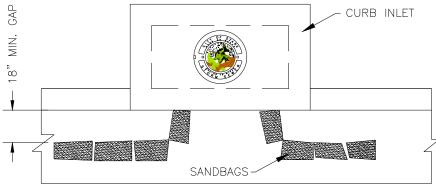
- OTHER CONFIGURATIONS OF CONCRETE WASHOUTS MAY BE SUBMITTED FOR REVIEW AND POSSIBLE APPROVAL.
- THE CONCRETE WASHOUT MAY BE CONSTRUCTED EITHER ABOVE OR BELOW GRADE.
- THE LOCATION OF THE CONCRETE WASHOUT SHALL BE SHOWN ON THE EROSION AND CONTROL PLANS.
- THE REQUIRED SIZE SHALL BE DETERMINED BY THE DESIGN ENGINEER AND INDICATED ON THE DRAWINGS.
- CONCRETE WASHOUT SHALL HAVE SUFFICIENT VOLUME. DISCHARGE WILL NOT BE ACCEPTABLE.
- THE CONCRETE WASHOUT SHALL BE INSTALLED PRIOR TO ANY CONCRETE DELIVERY TO THE SITE.
- A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE CONCRETE WASHOUT.
- THE CONCRETE WASHOUT SHALL NOT BE INSTALLED WITHIN 50' OF ANY STREAM, WETLAND, STORM DRAINS OR OTHER SENSITIVE AREAS.
- THE LINER SHALL BE ONE PIECE WITHOUT SEAMS.
- 10. THE CONCRETE WASHOUT SHALL BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY AND ADEQUATE HOLDING CAPACITY. THEY SHALL ALSO BE INSPECTED AFTER HEAVY RAINS.

 11. ONLY CONCRETE WASHOUT SHALL BE PLACED INTO THE CONCRETE WASHOUTS.
- 12. THE HARDENED CONCRETE WASTE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO 75% OF THE WASHOUT'S CAPACITY.
- 13. AFTER COMPLETION OF ALL CONCRETE WORK, THE CONCRETE WASHOUT FACILITY SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF SITE.



CROSS SECTION





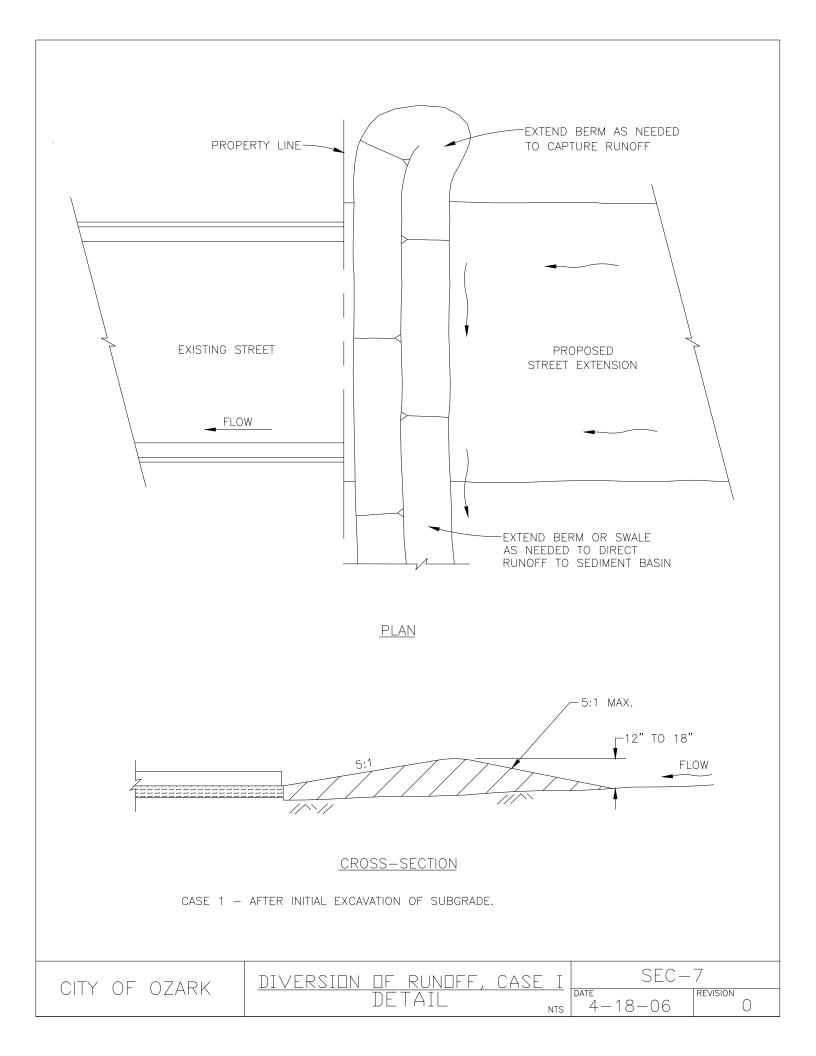
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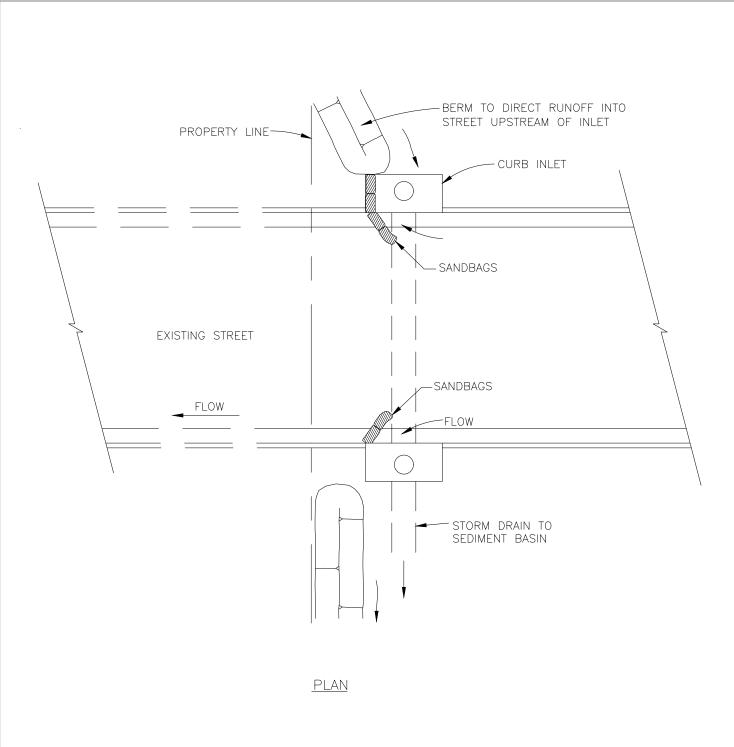
PLAN VIEW SAND BAGS

- 1. SANDBAGS FILLED WITH CHAT OR LIMESTONE SAND MAY BE USED IN THE CONFIGURATION SHOWN AS A MEASURE TO CONTROL SILT AND SEDIMENT.
- 2. THE NUMBER OF SANDBAGS SHALL BE ADJUSTED AS NECESSARY FOR THE EXISTING FLOW/CONDITIONS.
 3. THE TOP IF THE SANDBAGS SHALL BE LOWER THAN THE TOP OF CURB.
 4. THE SANDBAGS SHALL HAVE TIGHT CONTACT WITH THE CURB FACE.

- CLEAN UP AND ADEQUATE MAINTENANCE OF SILT/SEDIMENT DEPOSIT SHALL BE PROVIDED DURING THIS PERIOD.
- SANDBAGS SHALL BE REMOVED AFTER ADJACENT EARTHWORK OPERATION IS COMPLETED AND IT HAS SERVED IT'S USEFULNESS, SO AS NOT TO IMPEDE STORM FLOW OR DRAINAGE.
- FILTER SOCK MAY ALSO BE PLACED ACROSS THE OPENING OF THE CURB INLET AS A SOLUTION.
- 8. STRAW BALES ARE NOT PERMITTED.
- 9. ALL INLETS AND STORM PIPES SHALL BE CLEANED OF SILT AND SEDIMENT PRIOR TO FINAL APPROVAL.

CITY OF OZARK	SAND BAG SEDIMENT	TRAP SEC-6
CITI OI OZANN	DETAIL	NTS 02-14-2017 REVISION 1





NOTE: FILL SANDBAGS WITH CHAT OR LIMESTONE SAND

CASE 2 - AFTER PAVEMENT AND INLETS COMPLETED.

CITY OF OZARK

DIVERSION OF RUNOFF, CASE II

DETAIL

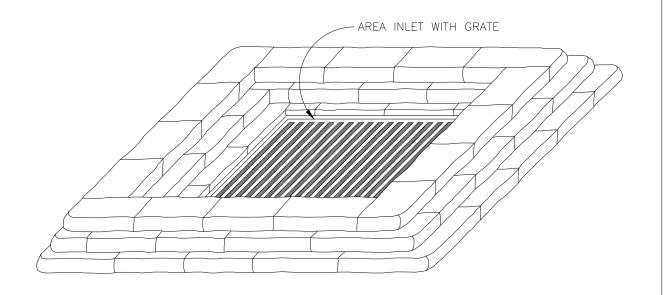
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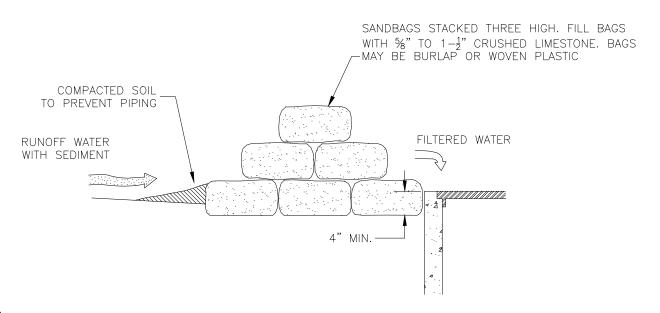
SEC-8

A-18-06

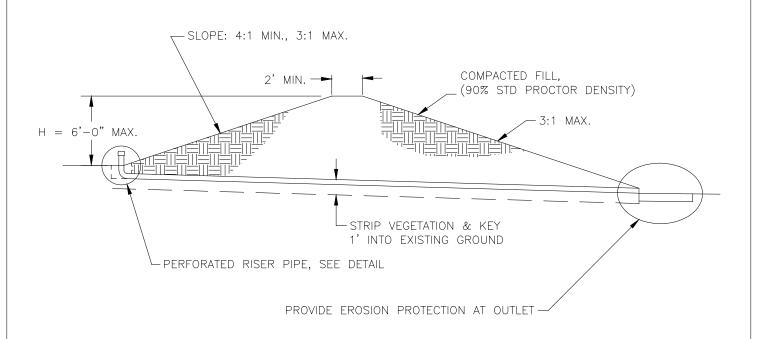
REVISION

O





- 1. STACKED SANDBAGS MAY BE USED IN PAVED AREAS.
- 2. OUTSIDE OF PAVED AREAS OR BEFORE PAVEMENT IS PLACED, AREA INLETS CAN BE PROTECTED BY INSTALLING A SUITABLE SEDIMENT CONTROL DEVICE BUT STRAW BALES ARE NOT PERMITTED.
- 3. ACCUMULATED SEDIMENT MUST BE REMOVED FROM STORM SYSTEM PRIOR TO FINAL APPROVAL.

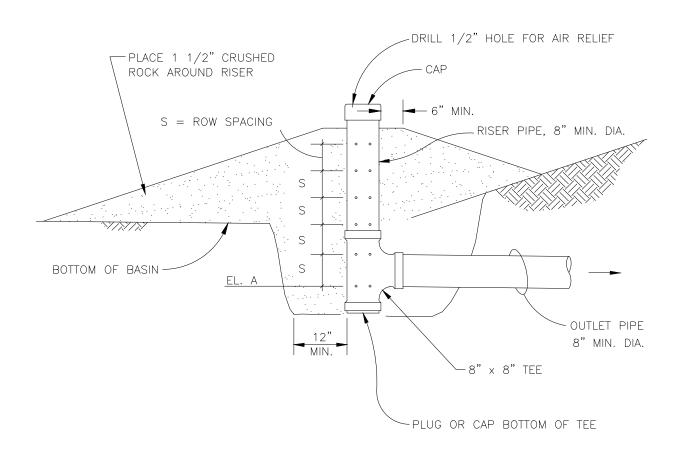


<u>SECTION A - A</u>

DATE

n = NUMBER OF HOLES PER ROW

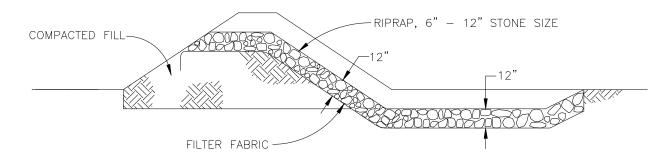
d = HOLE DIAMETER



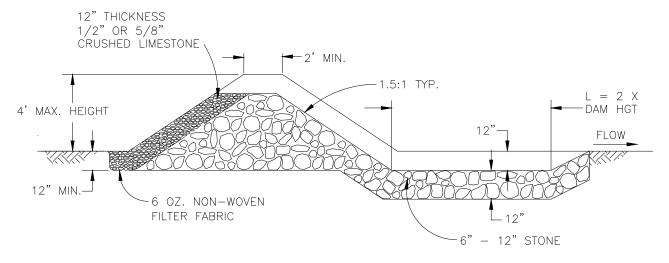
NOTES:

- 1. BOTTOM ROW OF HOLES SHALL BE SET NO HIGHER THAN BOTTOM OF BASIN.
- 2. ELEVATION OF BOTTOM ROW OF HOLES SHALL BE SET EQUAL TO INVERT ELEVATION OF OUTLET PIPE, (EL. A).
- 3. THIS ELEVATION SHALL BE SPECIFIED ON THE DRAWINGS.

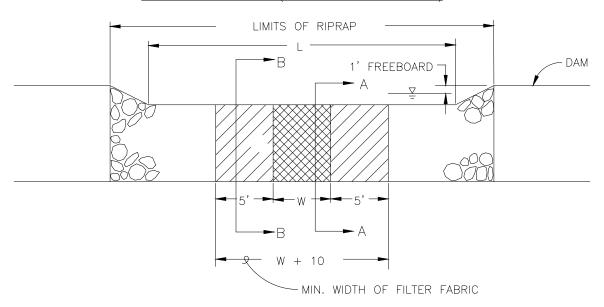
SEC-11



SECTION B - B



SECTION A - A (THRU GRAVEL FILTER)



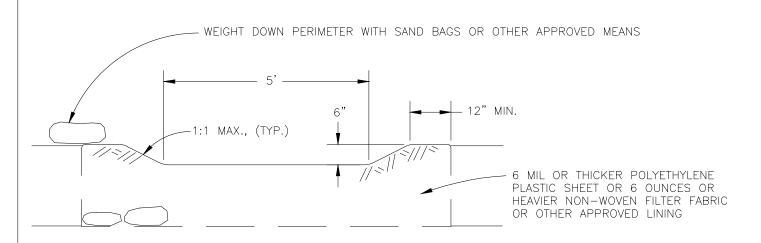
 $\mathsf{L} = \mathsf{LENGTH}$ REQUIRED TO PASS Q WHILE MAINTAINING 1 FOOT OF FREEBOARD. WIDTH OF ROCK FILTER AREA W =

CITY OF OZARK

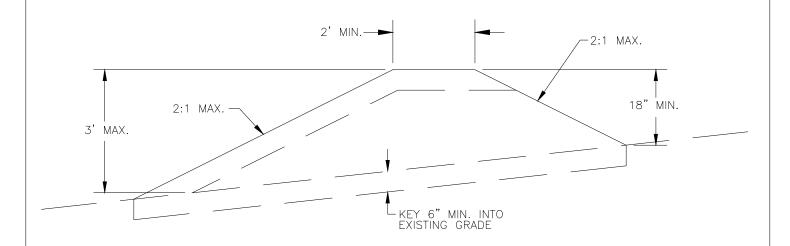
GRAVEL FILTER DAM DETAIL SEC-12

DATE REVISION 0

NTS



OVERFLOW AREA

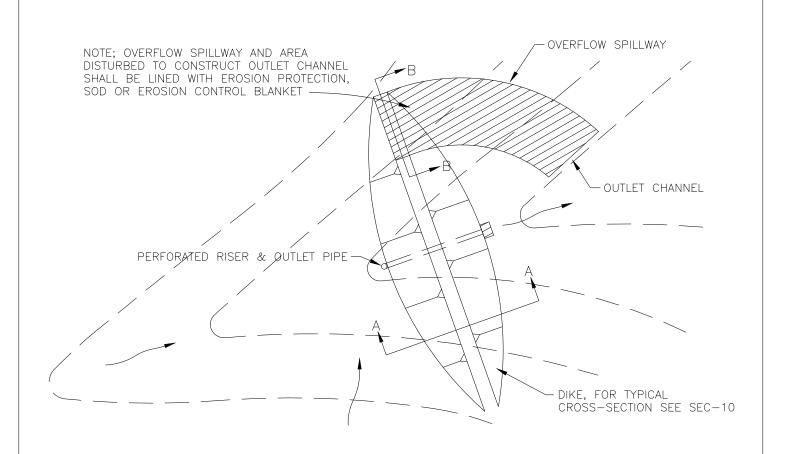


CROSS SECTION

NOTES:

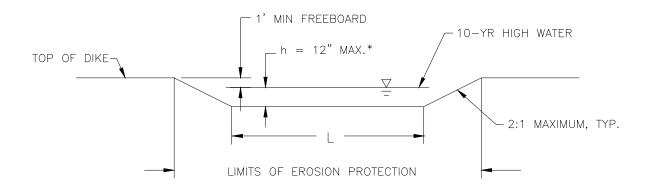
- 1. SOIL IN BERM SHALL BE FIRMLY COMPACTED.
- 2. AT EACH END OF BERM, TURN BERM UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES TO THE TOP OF BERM ELEVATION.
- 3. PROVIDE OVERFLOW AREAS AT 200 FT. MAX. INTERVALS.

CITY OF OTABIA	TEMPORARY CONTAINMENT	BERM	SEC-	3
CITE OF OZANK	DETAIL	NTS	DATE 4-18-06	REVISION ()



TYPICAL COMPONENTS OF TEMPORARY SEDIMENT BASIN PLAN

(PERFORATED RISER PIPE AND OVERFLOW SPILLWAY SHOWN.
GRAVEL FILTER DAM AND EROSION PROTECT OVERFLOW SPILLWAY MAY ALSO BE USED.)



* h = 6" MAX. IF SOD LINING USED

<u>SECTION B -B</u>

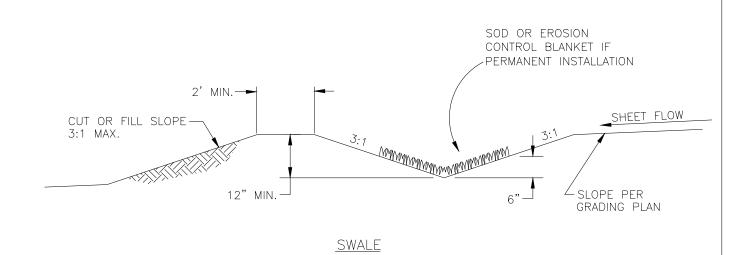
TYPICAL OVERFLOW SPILLWAY CROSS-SECTION

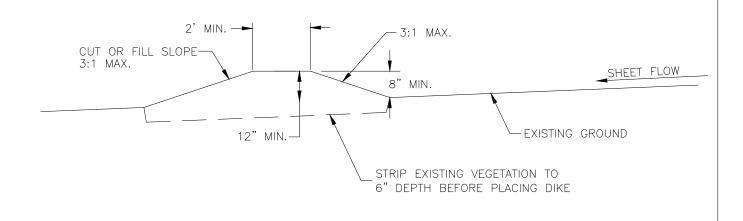
CITY OF OZARK

TEMPORARY SEDIMENT BASIN
DETAIL
NTS

SEC-14

A-18-06
REVISION
O





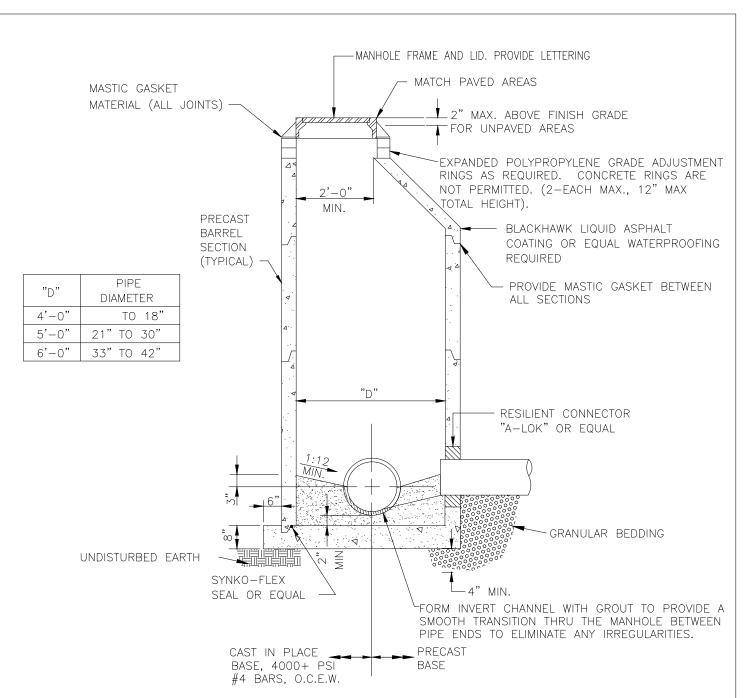
NOTES;

1. DIKE SHALL BE COMPACTED TO DENSITY EQUAL TO THAT SPECIFIED FOR ADJOINING AREA, (90% STD. PROCTOR DENSITY, MIN.)

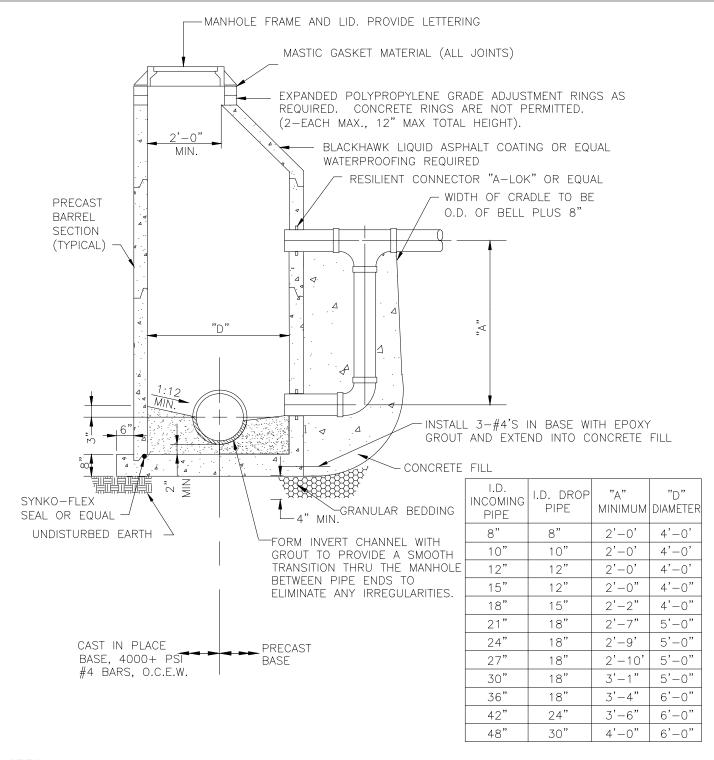
DIKE

2. MIN. 1% GRADE MUST BE PROVIDED FOR SWALE OR ALONG UPSLOPE SIDE OF DIKE FOR PROPER CLEARANCE.

DIVERSION DIKES &	SWALES	SEC-1	15
DETAIL	NTS	DATE 4-18-06	REVISION ()

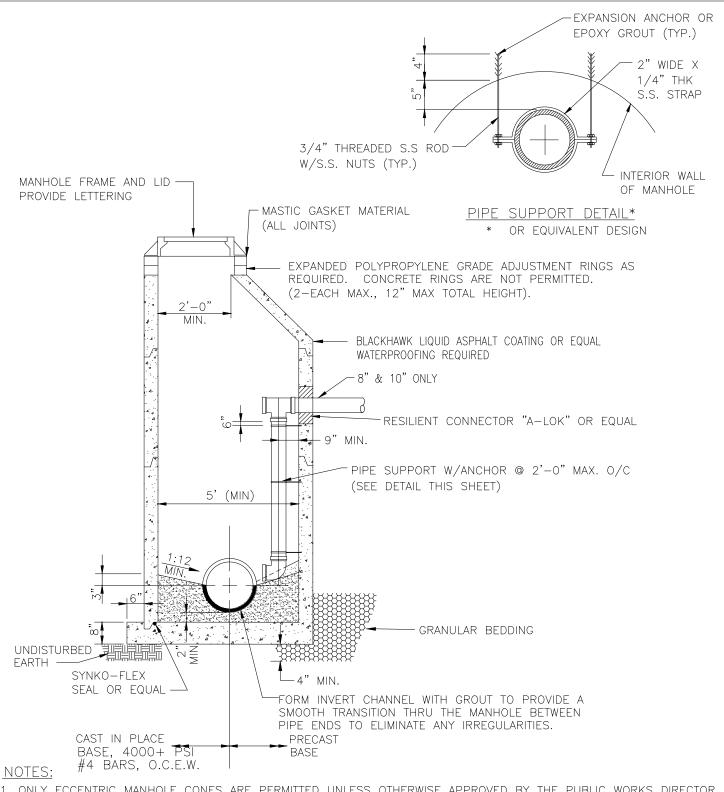


- 1. ONLY ECCENTRIC MANHOLE CONES ARE PERMITTED UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
- 2. PROVIDE BLACKHAWK LIQUID ASPHALT COATING OR EQUAL ON ENTIRE EXTERIOR OF MANHOLE.
- 3. CIRCULAR PRECAST MANHOLE SECTIONS SHALL BE SEALED WITH MASTIC GASKETS.
- 4. MANHOLE WALL THICKNESS SHALL BE 1/12 OF THE INSIDE DIAMETER PLUS ONE INCH.
- 5. PRECAST MANHOLE SECTIONS AND STEEL REINFORCEMENT SHALL CONFORM TO ASTM C 478, EXCEPT AS MODIFIED.
- 6. DO NOT PROVIDE MANHOLE STEPS.
- 7. NO GROUTING SHALL BE PERMITTED ON MANHOLES AND RINGS, EXCEPT THE LIFT HOLES MAY BE GROUTED.
- 8. THE MINIMUM DROP BETWEEN INLET AND OUTLET INVERTS SHALL BE 0.2'.
- 9. THE MAXIMUM DROP BETWEEN INLET AND OUTLET INVERTS SHALL BE 24".
- 10.THE MINIMUM ANGLE FOR FLOWLINES WITHIN THE MANHOLE SHALL BE 90 DEGREES



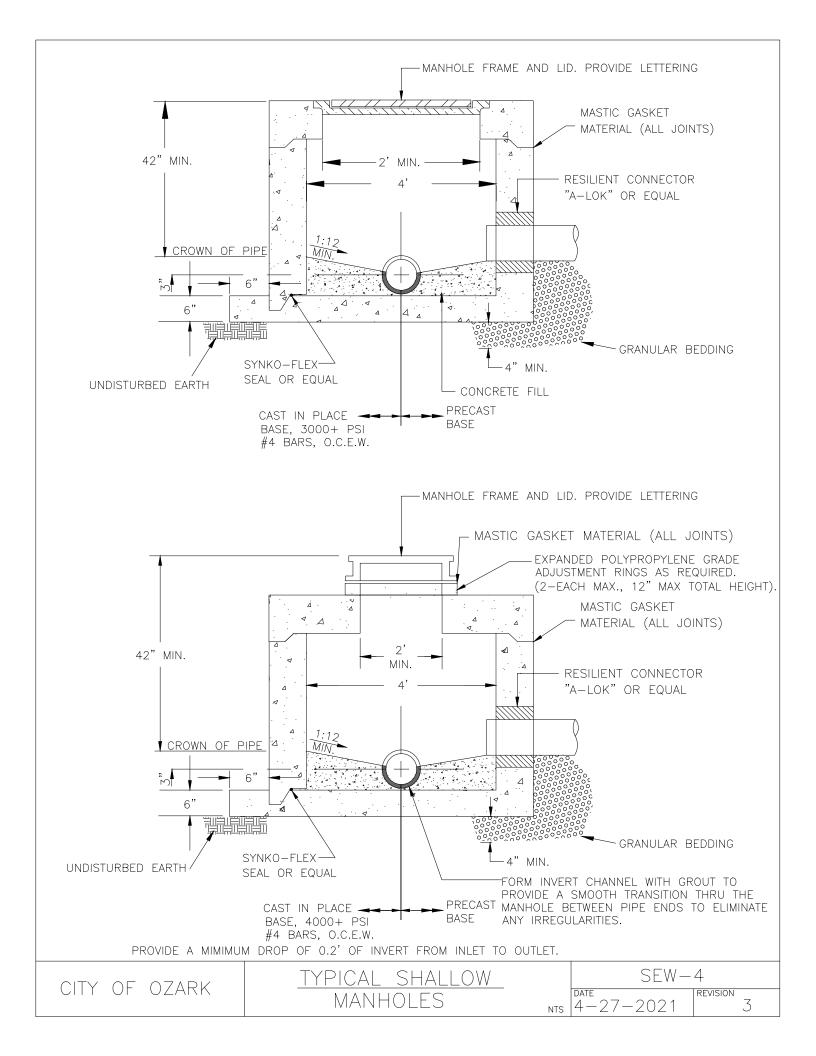
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- 6. DO NOT PROVIDE MANHOLE STEPS.
- 7. NO GROUTING SHALL BE PERMITTED ON MANHOLES AND RINGS, EXCEPT THE LIFT HOLES MAY BE GROUTED.
- 8. DROP CONNECTIONS SHALL NOT ENTER THE MANHOLE AT A SECTION JOINT.
- 9. THE VERTICAL PIPE AND REQUIRED FITTINGS SHALL BE THE SAME SIZE AS THE INCOMING SEWER PIPE.
- 10. THE MINIMUM ANGLE FOR FLOWLINES WITHIN THE MANHOLE SHALL BE 90 DEGREES

CITY OF OZARK	STANDARD OUTSIDE DROP	SEW-2
CITI OI OZANN	MANHOLE DETAIL	NTS 4-27-2021 REVISION 4

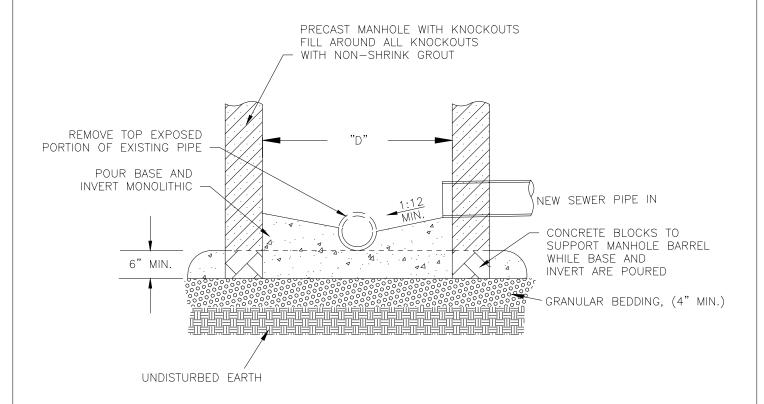


- 1. ONLY ECCENTRIC MANHOLE CONES ARE PERMITTED UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
- 2. PROVIDE BLACKHAWK LIQUID ASPHALT COATING OR EQUAL ON ENTIRE EXTERIOR OF MANHOLE.
- 3. CIRCULAR PRECAST MANHOLE SECTIONS SHALL BE SEALED WITH MASTIC GASKETS.
- 4. MANHOLE WALL THICKNESS SHALL BE 1/12 OF THE INSIDE DIAMETER PLUS ONE INCH.
- 5. PRECAST MANHOLE SECTIONS AND STEEL REINFORCEMENT SHALL CONFORM TO ASTM C 478, EXCEPT AS MODIFIED.
- 6. DO NOT PROVIDE MANHOLE STEPS.
- 7. NO GROUTING SHALL BE PERMITTED ON MANHOLES AND RINGS, EXCEPT THE LIFT HOLES MAY BE GROUTED.
- 8. SEWER PIPES SHALL NOT ENTER THE MANHOLE AT A SECTION JOINT.
- 9. THE VERTICAL PIPE AND REQUIRED FITTINGS SHALL BE THE SAME SIZE AS THE INCOMING SEWER PIPE.
- 10. THE MINIMUM ANGLE FOR FLOWLINES WITHIN THE MANHOLE SHALL BE 90 DEGREES

CITY OF OTABIA	STANDARD INSIDE DROP		SEW-	3
CITI OI OZANA	manhole detail	NTS	DATE 4-27-2021	REVISION 4

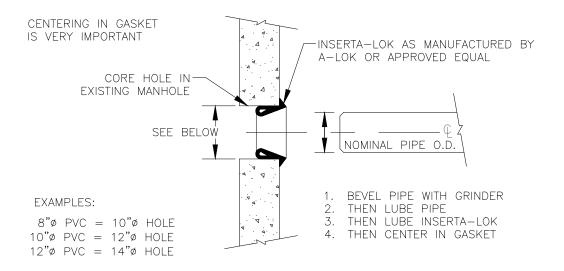


"D"	PIPE DIAMETER	
4'-0"	TO 18"	
5'-0"	21" TO 30"	
6'-0"	33" TO 42"	



1. MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE CITY OF OZARK CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.

CITY OF OTABIA	NEW MANHOLE ON		SEW-	5
CITE OF OZANK	EXISTING LINE	NTS	2-02-09	REVISION ()

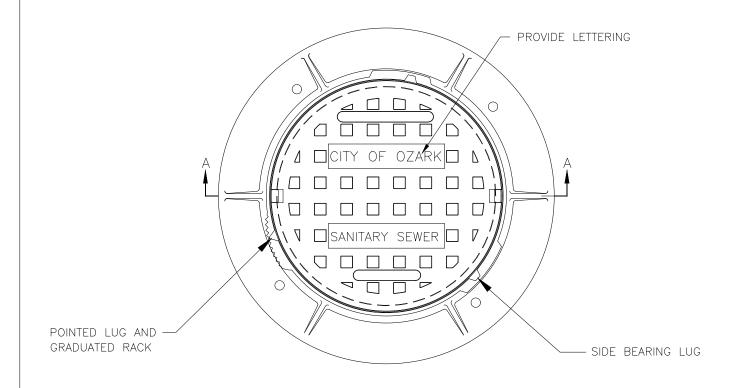


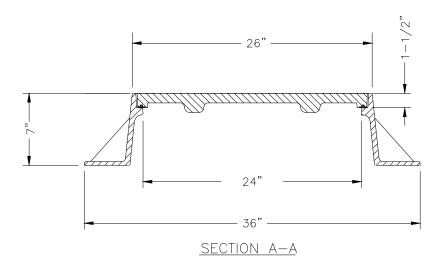
CONNECTION TO EXIST MH
DETAIL

SEW-6

0

- 1. TYPE A MANHOLE FRAME AND LID IS FOR USE IN TRAFFIC AREAS.
- 2. PROVIDE NON-ROCKING SELF-SEALING CONCEALED PICKHOLE TYPE LID.
- 3. PROVIDE DEETER 1247-A OR APPROVAL EQUAL.
- 4. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.



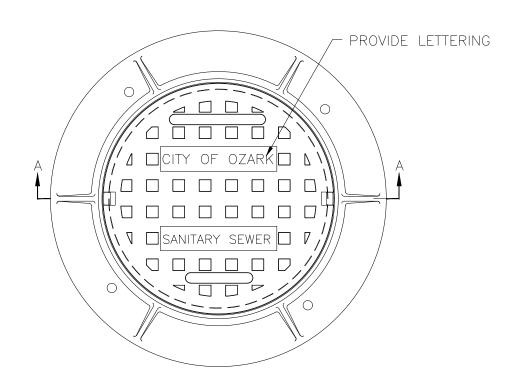


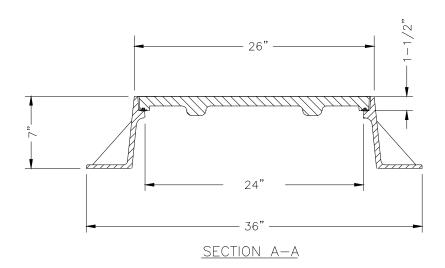
NOTES

- 1. COVER AND FRAME SHALL BE CAST GRAY IRON CONFORMING TO THE REQUIREMENTS OF ASTM A 48, CLASS 35B WITH NO PAINT.
- 2. COVER AND FRAME SHALL CONFORM TO H20/HS20 WHEEL LOAD RATING.
- 3. CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- 4. FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
- 5. FRAMES SHALL BE CIRCULAR, AND THE FLANGE SHALL INCORPORATE 4 EACH 1" DIAMETER BOLT HOLES.

CITY OF OZADK	TYPE A MANHOLE_	SEW-7
CITI OI OZANN	FRAME AND LID	NTS 9-01-2017 REVISION 0

- 1. TYPE B MANHOLE FRAME AND COVER FOR USE OUTSIDE OF DRIVING SURFACES.
- 2. PROVIDE SELF-SEALING CONCEALED PICKHOLE TYPE LID, DEETER 1247 OR APPROVED EQUAL.
- 3. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.



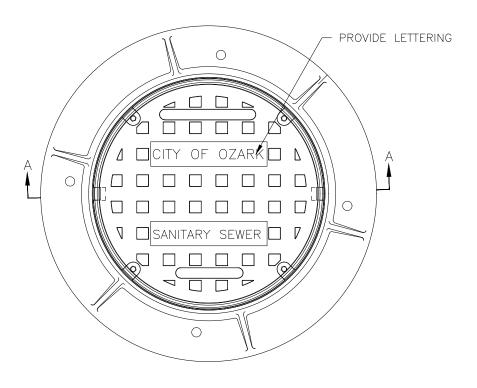


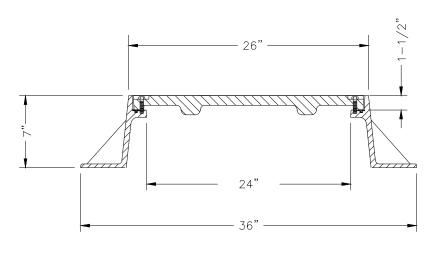
NOTES;

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- 2. CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- 3. FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
- 4. FRAMES SHALL BE CIRCULAR, AND THE FLANGE SHALL INCORPORATE 4 EACH 1" DIAMETER BOLT HOLES.

CITY OF OTABIA	TYPE B MANHOLE_	SEW-8
CITI OI OZANN	FRAME AND LID	NTS 9-01-2017 REVISION 1

MANHOLE COVER AND FRAME BOLT-DOWN TYPE DEETER 1247-B OR APPROVED EQUAL





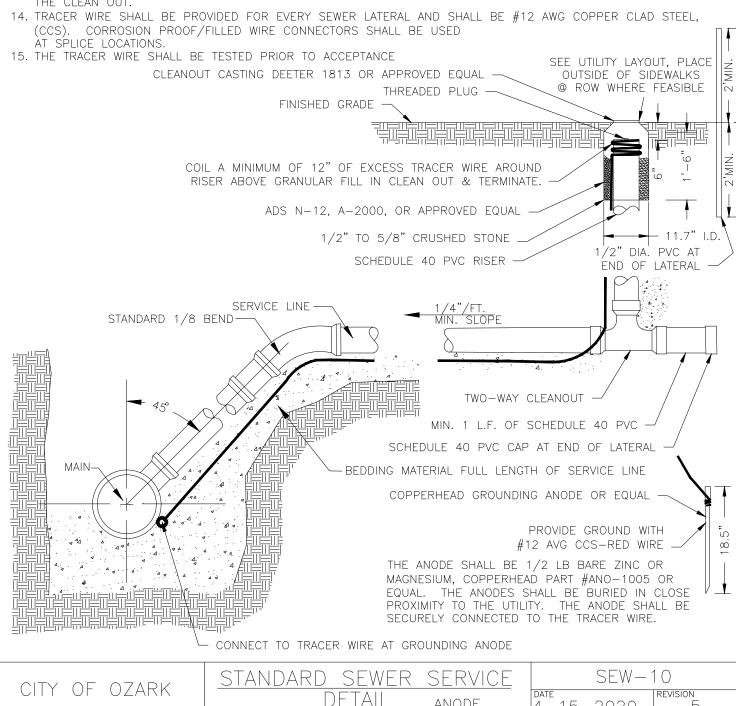
SECTION A-A

NOTES;

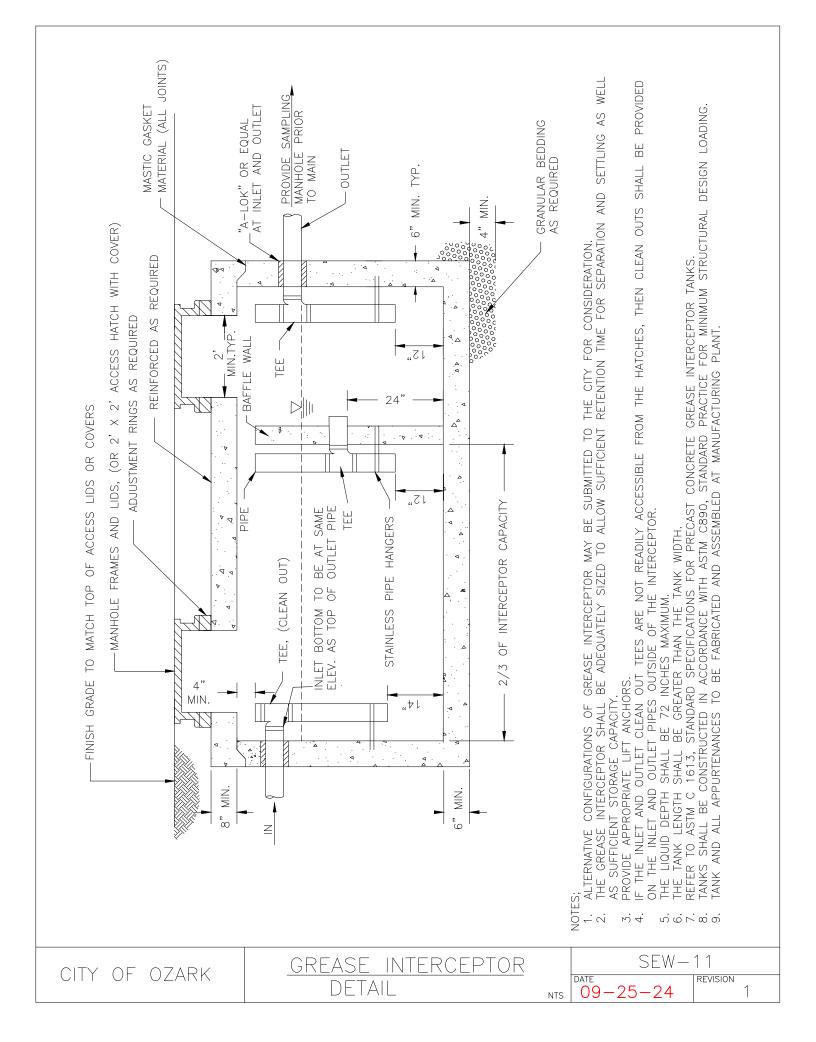
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- 2. COVER AND FRAME SHALL CONFORM TO, H20/HS20 WHEEL LOAD RATING. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
- 3. CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- 4. FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
- 5. COVERS SHALL HAVE A SELF SEALING GASKET AND SHALL BE FASTENED TO THE FRAME BY A MINIMUM OF FOUR STAINLESS STEEL BOLTS.
- 6. FRAMES SHALL BE CIRCULAR, AND THE FLANGE SHALL INCORPORATE 4-EACH 1" DIAMETER BOLT HOLES.

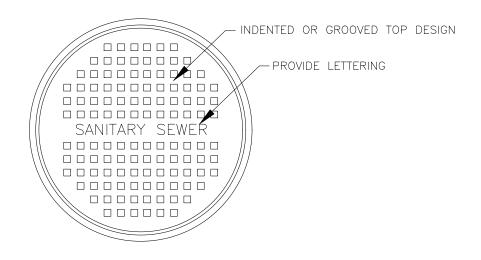
CITY OF OTABIA	TYPE C MANHOLE_	SEW-9
CITI OI OZANN	FRAME AND LID	NTS 9-01-2017 REVISION 3

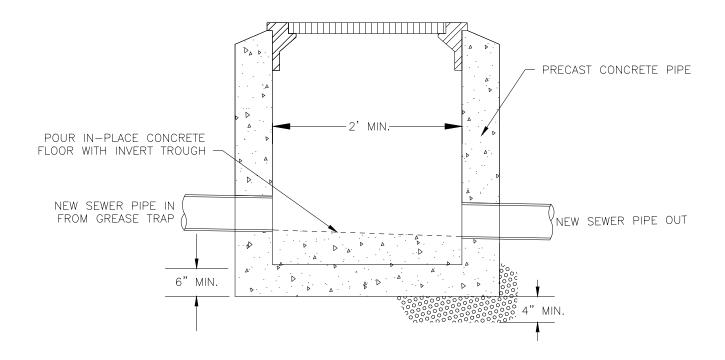
- STANDARD "Y" OR "T" CONNECTIONS SHALL BE PLACED AT 45 DEGREE ANGLE.
- SDR-26 HEAVY WALL TEES SHALL BE USED FOR SDR-35 MAINS AND SDR-21 TEES SHALL BE USED FOR SDR-21
- 3. WHEN A "T" SADDLE IS USED, IT SHALL BE INSTALLED AT A 45 DEGREE ANGLE.
- SEWER SERVICE CONNECTIONS INSTALLED SUB-SEQUENTIALLY TO THE MAIN SHALL BE ACCOMPLISHED BY SADDLE TYPE FITTINGS. THE FITTINGS SHALL BE SUPPORTED BY FLOWABLE FILL. COMPLETELY ENCASE THE FITTING TO A MINIMUM OF 1' ABOVE THE POINT OF CONNECTION TO THE MAIN.
 WHEN TAPPING THE MAIN, DO NOT ALLOW BEDDING MATERIAL OR BORED PLUGS TO FALL INTO MAIN.
- SERVICE LINES SHALL BE SCHEDULE 40 PVC. JOINTS SHALL BE GLUED WITH AN APPROVED ADHESIVE.
- 7. COORDINATE DEPTH OF SERVICE LINES AS REQUIRED TO SERVICE THE FACILITY AND TO AVOID OTHER UTILITIES.
- 8. SEWER SERVICES SHALL NOT BE INSTALLED WITHIN 5' OF A MANHOLE EXTERIOR WALL AND SHALL BE SEPARATED BY A 5' MININMUM SPACING...
- 9. SEWER SERVICE SHALL BE PROVIDE TO EVERY BUILDABLE PLATED LOT WITHIN A SUBDIVISION.
- 10. THE MAXIMUM NUMBER OF UNITS TO BE CONNECTED ON A 4" SEWER SERVICE SHALL BE ONE FOR EACH DUPLEX.OR SINGLE FAMILY STRUCTURE.
- 11. SEWER LATERAL SHALL EXTEND TO PROPERTY LINE AS A MINIMUM.
 12. THE CLEAN OUT AS SHOWN WILL NOT BE MAINTAINED BY THE CITY OF OZARK.
- 13. PROVIDE APPROPRIATE WARNING TAPE 18" TO 24" BELOW FINISH GRADE AT THE SERVICE LINE FROM THE MAIN TO THE CLEAN OUT.



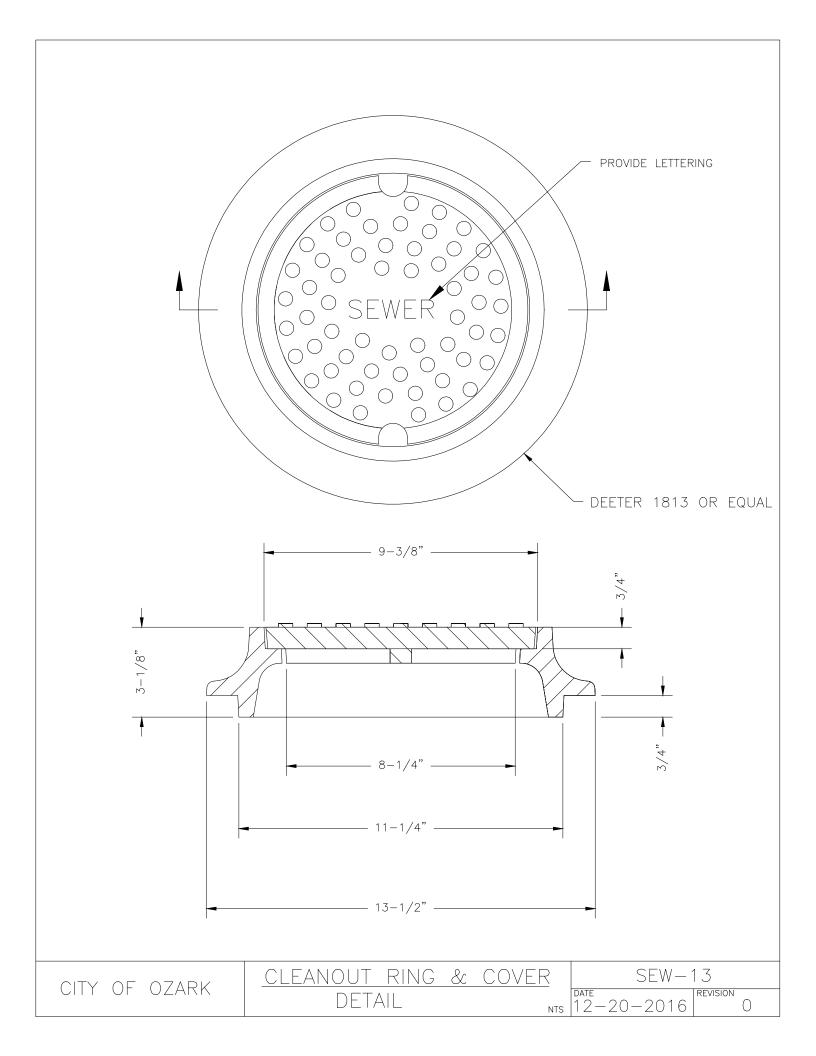
 $M_{NTS} | 4 - 15 - 2020 |$

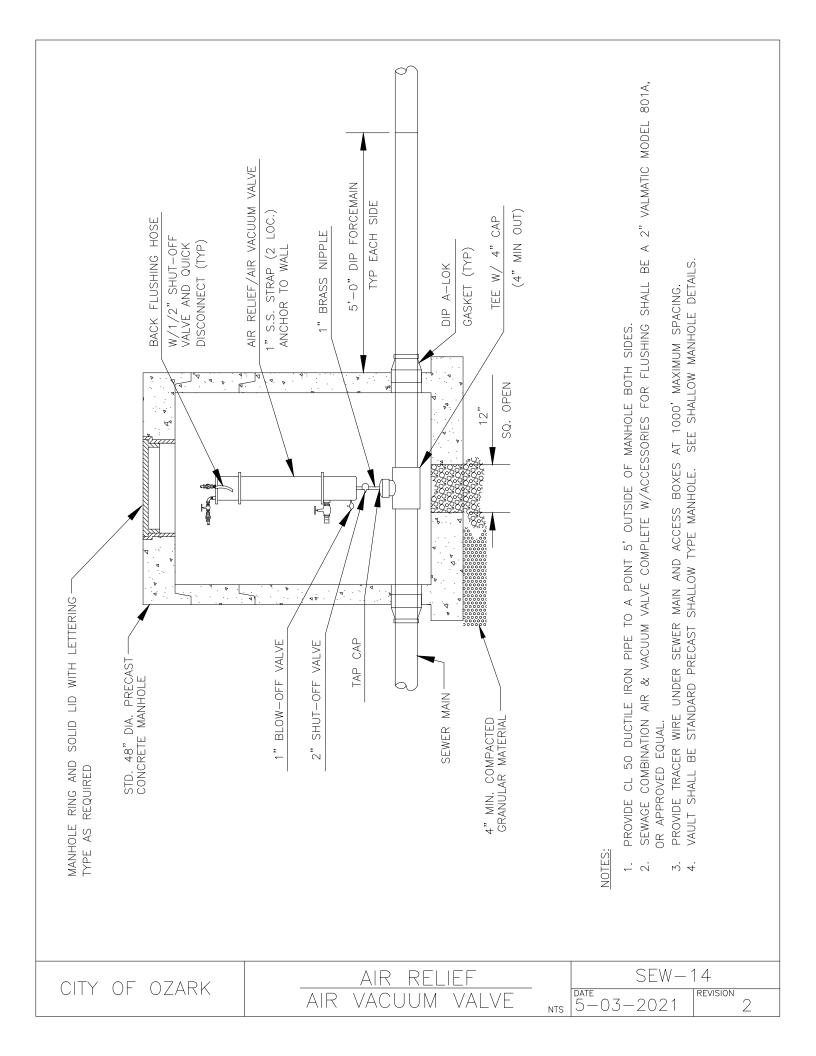


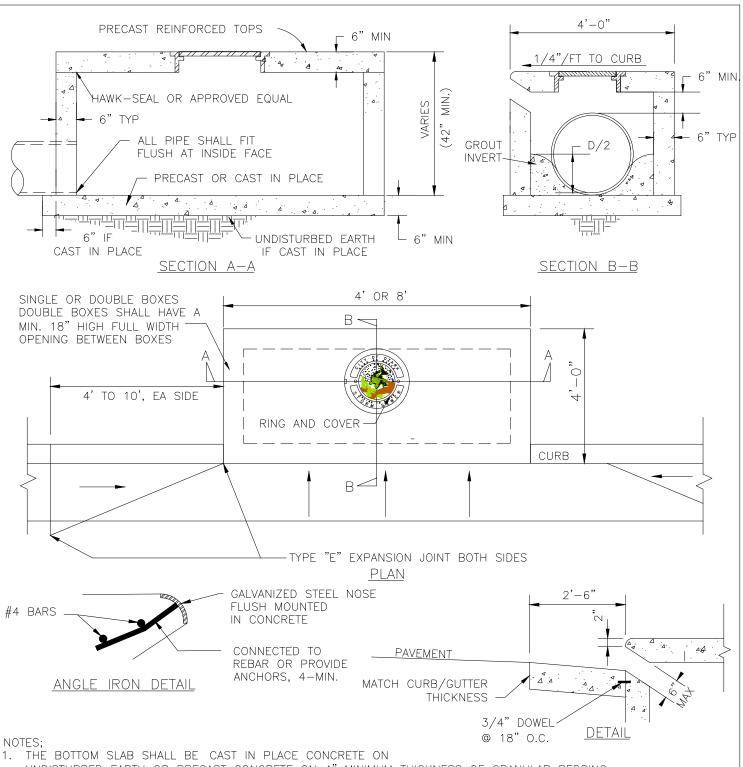




- MANHOLES SHALL BE STANDARD REINFORCED CONCRETE PIPE SECTION, 2' MIN. DIA. X 3' MIN. DEPTH. 1.
- 2.
- MANHOLE FLOOR SHALL BE POURED IN PLACE CONCRETE. FRAME AND LID SHALL BE NEENAH SLAB TYPE R-5900-E OR APPROVED EQUAL AND SHALL BE 3. TRAFFIC RATED WHEN APPLICABLE.
- SEALANT SHALL BE APPLIED UNDER ENTIRE PORTION OF THE FRAME AND AT ALL CONCRETE PIPE JOINTS.
- OPENINGS FOR INFLUENT AND EFFLUENT PIPES TO BE CORED WITHOUT BREAKING. 5.
- USE "INSERTA-LOK" OR APPROVED EQUAL FOR PIPE CONNECTIONS TO MANHOLE.

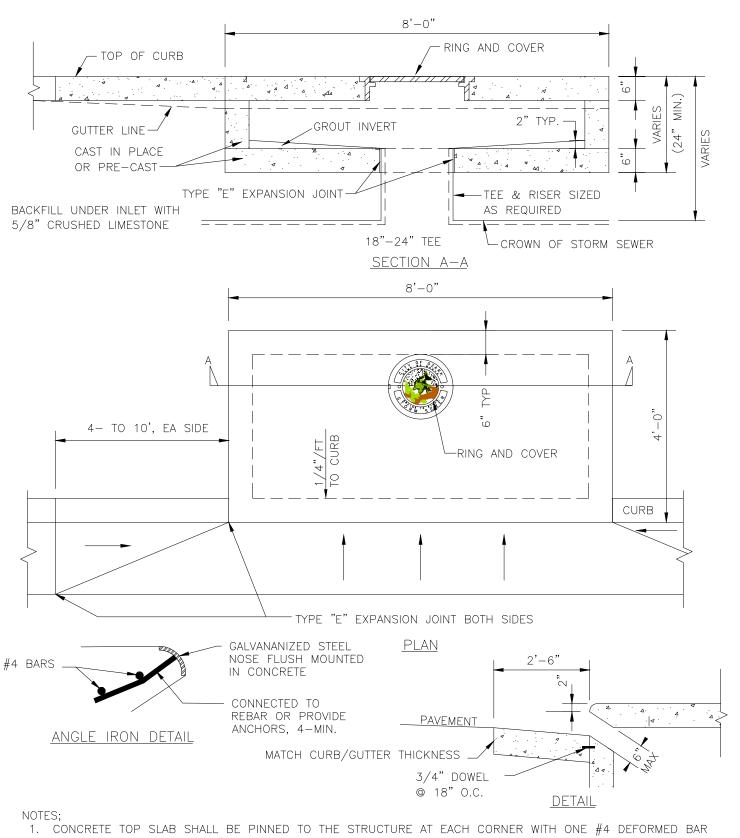






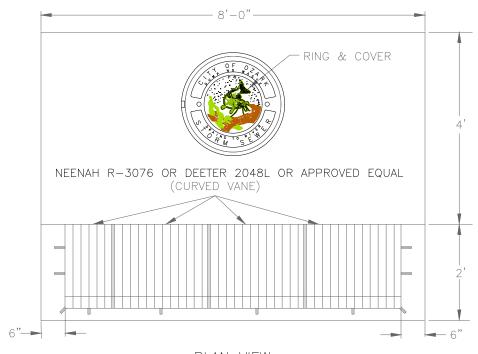
- UNDISTURBED EARTH OR PRECAST CONCRETE ON 4" MINIMUM THICKNESS OF GRANULAR BEDDING.
- 2. PROVIDE APPROPRIATE FLOW PROFILE THRU BOX INVERT.
- 3. ALL PIPES SHALL FIT FLUSH AT INSIDE FACE OF INLET.
- 4. FORM INVERT CHANNEL WITH 4000 PSI, TYPE II PORTLAND CEMENT CONCRETE.
- 5. PROVIDE #4 BARS @ 10" O.C.E.W. FOR ALL WALLS, (VERT., HORIZ. AND SLAB). SEE TOP SLAB REINFORCEMENT DETAIL
- 6. CONCRETE TOP SLAB SHALL BE PINNED TO THE STRUCTURE AT EACH CORNER WITH ONE #4 DEFORMED BAR EXTENDED A MINIMUM OF 6" INTO RISER BELOW.
- 7. THE TOP AND OPENING SHALL MATCH PROFILE OF ADJACENT CURB LINE.
- 8. PROVIDE MASTIC GASKET FOR ALL JOINTS.
- 9. THE MAXIMUM PIPE SIZE FOR THE 4' WALL LENGTH SHALL BE 24".
- 10. PROVIDE MANHOLE FRAME AND LID WITH SYMBOL AND LETTERING.
- 11. IF INLET IS NOT RECESSED THEN A PROTECTIVE GALVANIZED STEEL NOSE IS REQUIRED AS SHOWN.

CITY OF OZADIZ	CURB INLETS	STM-	1
CITT OF UZARK	DETAIL	9-01-2017	REVISION 3

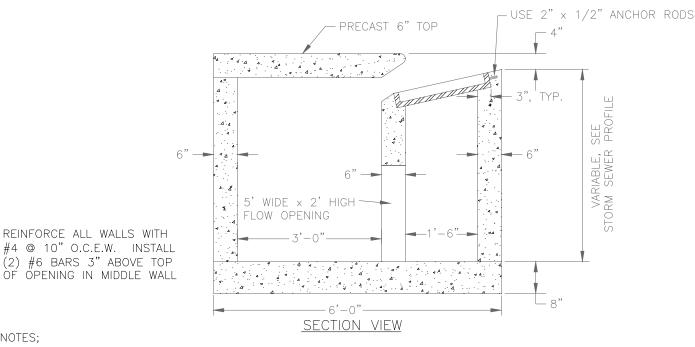


- EXTENDED A MINIMUM OF 6" INTO RISER BELOW.
- 2. PROVIDE #4 BARS @ 10" O.C.E.W.. FOR ALL WALLS. SEE TOP SLAB REINFORCEMENT DETAILS. 3. THE TOP AND OPENING SHALL MATCH PROFILE OF ADJACENT CURB LINE.
- 4. PROVIDE MASTIC GASKET FOR ALL JOINTS.
- 5. PROVIDE MANHOLE FRAME AND LID WITH SYMBOL AND LETTERING.
- 6. IF INLET IS NOT RECESSED THEN A PROTECTIVE GALVANIZED STEEL NOSE IS REQUIRED AS SHOWN.

STM-2CURB INLET OVER PIPE CITY OF OZARK REVISION DETAIL NTS | 9 - 01 - 2017



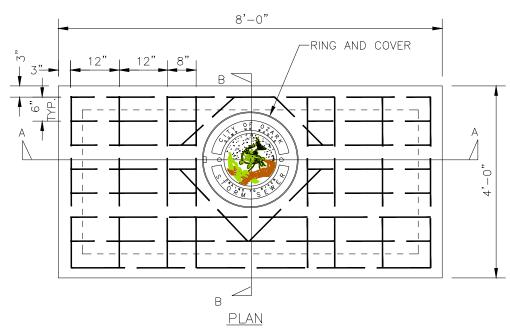




NOTES;

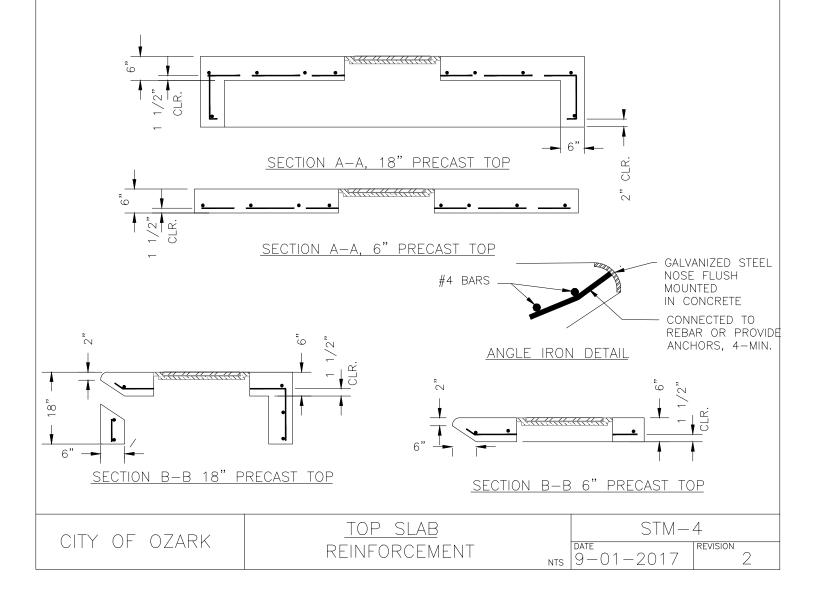
- 1. THE BOTTOM SLAB SHALL BE CAST IN PLACE CONCRETE ON UNDISTURBED EARTH OR PRECAST CONCRETE ON 4" MINIMUM THICKNESS OF GRANULAR BEDDING.
- 2. ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF INLET.
- 3. PROVIDE GROUTED INVERT WITH APPROPRIATE FLOW PROFILE THRU BOX INVERT.
- 4. THE TOP AND OPENING SHALL MATCH PROFILE OF ADJACENT CURB LINE.
- PROVIDE MASTIC GASKET FOR ALL JOINTS.
- 6. WHEN USED WITH NON-GRATE INLETS, PLATE THE GRATE INLET DOWNSTREAM.
- 7. PLACE GRATES SUCH THAT VANES CURVE DOWNWARD IN DIRECTION OF FLOW.
- 8. PROVIDE MANHOLE FRAME AND LID WITH FISH SYMBOL AND LETTERING.

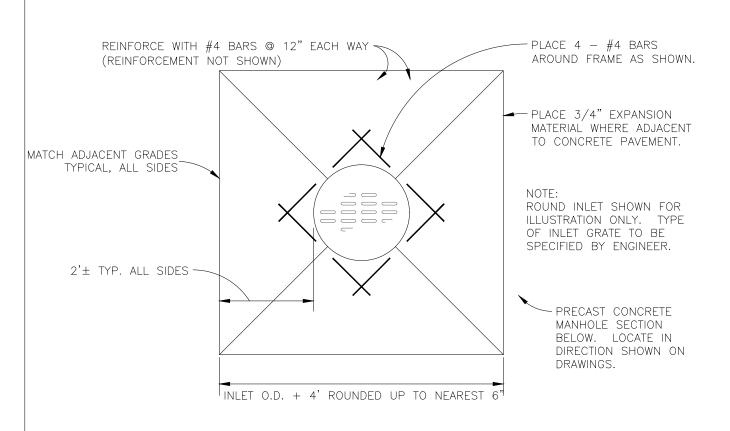
CITY OF OTABLE	GRATED INLET	STM-3
CITE OF OZANN	DETAIL	12-28-2016 REVISION 1



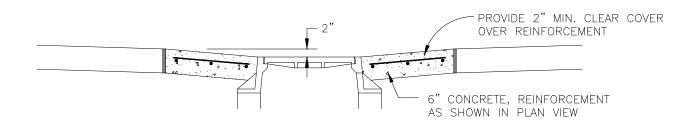
NOTES;

- 1. USE NO. 4 BARS THROUGHOUT.
- 2. REINFORCEMENT IS THE SAME IN THE TOP SLAB OF THE 6" AND THE 18" PRECAST TOP.
- 3. ALL 6" PRECAST TOPS SHALL BE PINNED AT ALL 4 CORNERS WITH #4 DOWELS EXTENDED A MINIMUM OF 6" INTO RISER BELOW..
- 4. IF INLET IS NOT RECESSED THEN A PROTECTIVE GALVANIZED STEEL NOSE IS REQUIRED AS SHOWN





PLAN VIEW



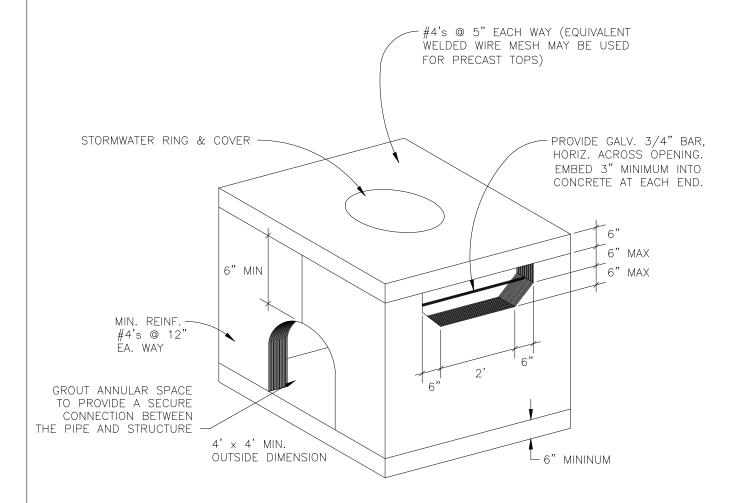
SECTION VIEW

NOTES:

- THIS AREA INLET WILL NOT BE PERMITTED IN PUBLIC STREETS. GRATING SHOULD BE BICYCLE SAFE FROM ALL DIRECTIONS. 1.
- DIMENSIONS SHALL BE AS SHOWN ON PLANS.

CITY OF OZADIZ	<u>area inlet with apron</u>		STM-5)
CIT OF OZAKK	DETAIL	NTS	12-28-2016	REVISION 1

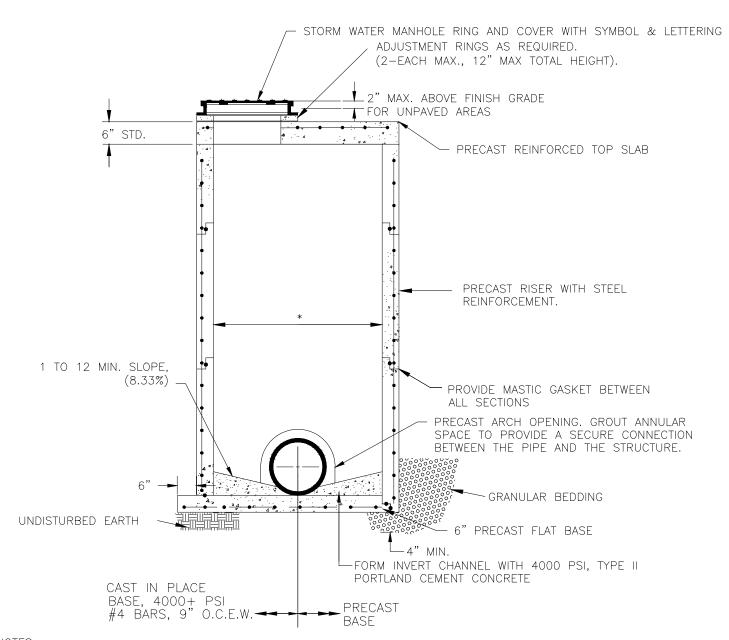
PIPE DIAMETER 15"-24" 27"-42" 48" 54"-66" >66" MINIMUM INSIDE DIMENSION OF STRUCTURE FOUR FEET (4') FIVE FEET (5') SIX FEET (6') EIGHT FEET (8') SPECIAL JUNCTION STRUCTURE



NOTES

- 1. THE BOTTOM SLAB SHALL BE CAST IN PLACE CONCRETE ON UNDISTURBED EARTH OR PRECAST CONCRETE ON 4" MINIMUM THICKNESS OF GRANULAR BEDDING.
- 2. PROVIDE APPROPRIATE FLOW PROFILE THRU BOX INVERT.
- 3. PROVIDE INVERT CHANNEL WITH 4000 PSI, TYPE PORTLAND CEMENT CONCRETE.
- 4. ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF INLET.
- 5. PROVIDE #4 BARS @ 10" O.C.E.W. FOR ALL WALLS, (VERT., HORIZ. AND SLAB). SEE TOP SLAB REINFORCEMENT DETAIL.
- 6. CONCRETE TOP SLAB SHALL BE PINNED TO THE STRUCTURE AT EACH CORNER WITH ONE #4 DEFORMED BAR EXTENDED A MINIMUM OF 6" INTO RISER BELOW.
- 7. PROVIDE MASTIC GASKET FOR ALL JOINTS.
- 8. PROVIDE MANHOLE FRAME AND LID WITH FISH SYMBOL AND LETTERING.

CITY OF OZARK	OPEN SIDE DROP INLET	STM-6
	DETAIL	DATE 12-28-2016 REVISION 1

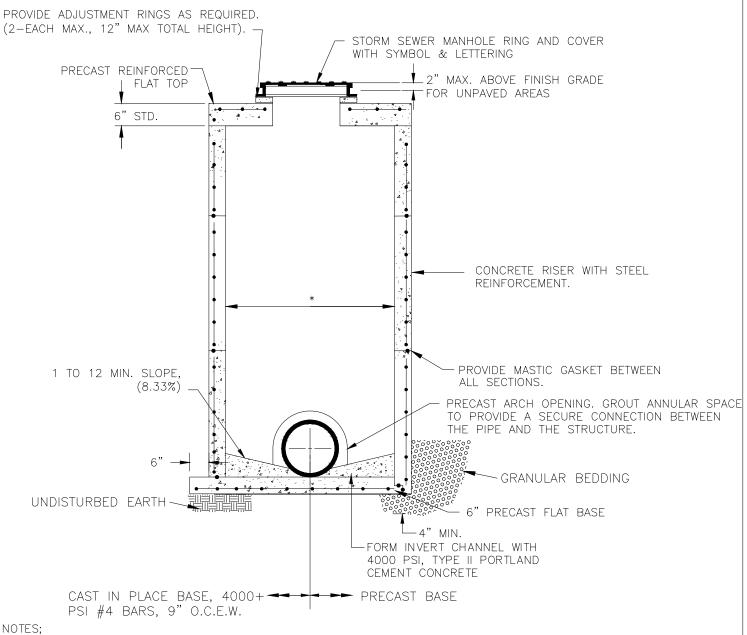


- 1. THE BOTTOM SLAB SHALL BE CAST IN PLACE CONCRETE ON UNDISTURBED EARTH OR PRECAST CONCRETE ON 4" MINIMUM THICKNESS OF GRANULAR BEDDING.
- MANHOLE SHALL BE DESIGNED TO WITHSTAND DEAD LOADS AND TRAFFIC LOADS IN ACCORDANCE WITH ASTM C890.
- 3. PROVIDE APPROPRIATE FLOW PROFILE THRU INVERT.

- 4. THE MANHOLE WALL THICKNESS SHALL BE 1/12 OF INSIDE DIAMETER PLUS ONE INCH.
- 5. DO NOT PROVIDE STEPS
- 6. THE MANHOLE SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C478.
- 7. ALL PIPES SHALL FIT FLUSH AT INSIDE FACE OF MANHOLE.
- 8. PROVIDE MANHOLE FRAME AND LID WITH SYMBOL AND LETTERING.

PIPE DIAMETE	R *MINIMUM INSIDE DIAMETER OF MANHOLE
15"-24"	FOUR FEET (4')
27"-42"	FIVE FEET (5')
48"	SIX FEET (6')
54"-66"	EIGHT FEET (8')
>66"	SPECIAL MANHOLE STRUCTURE
	STORM MANHOLF

STM-7CITY OF OZARK REVISION DETAIL 12-19-2016



- 1. THE BOTTOM SLAB SHALL BE CAST IN PLACE CONCRETE ON UNDISTURBED EARTH OR PRECAST CONCRETE ON 4" MINIMUM THICKNESS OF COMPACTED GRANULAR BEDDING.
- 2. JUNCTION BOX SHALL BE DESIGNED TO WITHSTAND DEAD LOADS AND TRAFFIC LOADS IN ACCORDANCE WITH ASTM C890.
- 3. CONCRETE TOP SLAB SHALL BE PINNED TO THE STRUCTURE AT EACH CORNER WITH ONE #4 DEFORMED BAR EXTENDED A MINIMUM OF 6" INTO RISER BELOW.
- 4. PROVIDE APPROPRIATE FLOW PROFILE THRU INVERT.
- 5. ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF JUNCTION BOX.
- 6. DO NOT PROVIDE STEPS.
- 7. THE CIRCULAR PRECAST SECTIONS AND STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH ASTM C478.
- 10 PROVIDE MANHOLE FRAME AND LID WITH SYMBOL AND LETTERING.

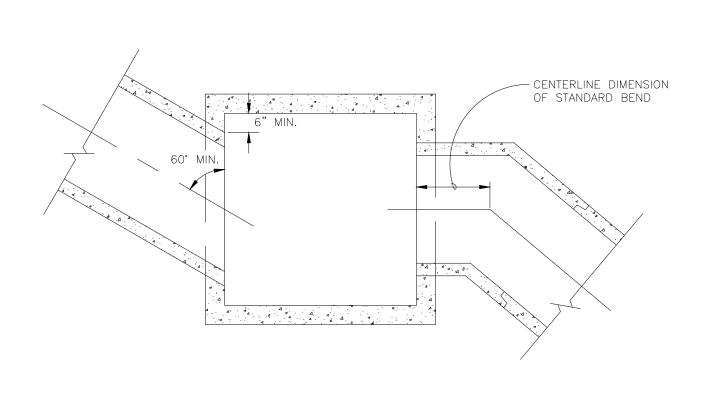
PIPE DIAMETER	*MINIMUM INSIDE DIMENSION OF STRUCTURE
15"-24"	FOUR FEET (4')
27"-42"	FIVE FEET (5')
48"-54"	SIX FEET (6')
54"-66"	EIGHT FEET (8')
>66"	SPECIAL JUNCTION STRUCTURE

CITY OF OZARK

STANDARD JUNCTION BOX
DETAIL

STM-8

DATE | REVISION | REVISION | PART | P



CITY OF OZARK

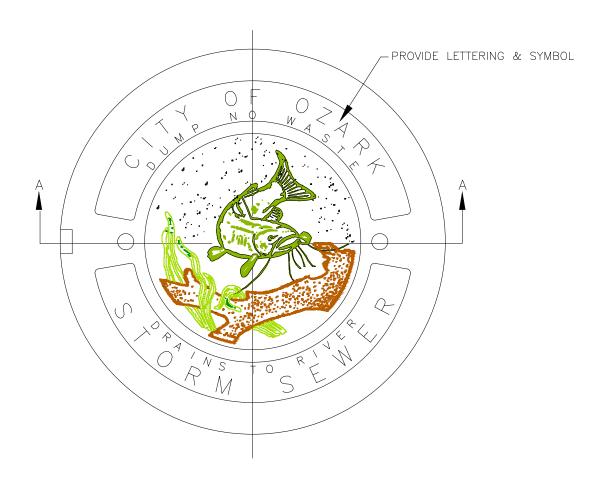
TYPICAL PIPE CONNECTIONS
AT JUNCTION STRUCTURE NTS

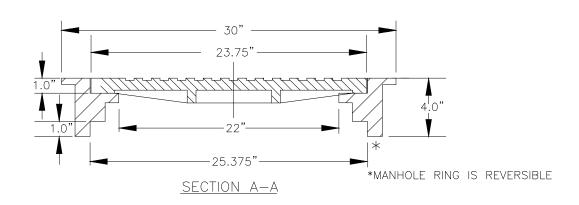
STM-9

DATE 4-21-06

REVISION

- 1. DEETER 1157 MANHOLE RING AND SOLID COVER OR APPROVED EQUAL.
- 2. COVERS WITH A SIMILIAR SYMBOL MAY BE SUBMITTED FOR APPROVAL
- 3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED .

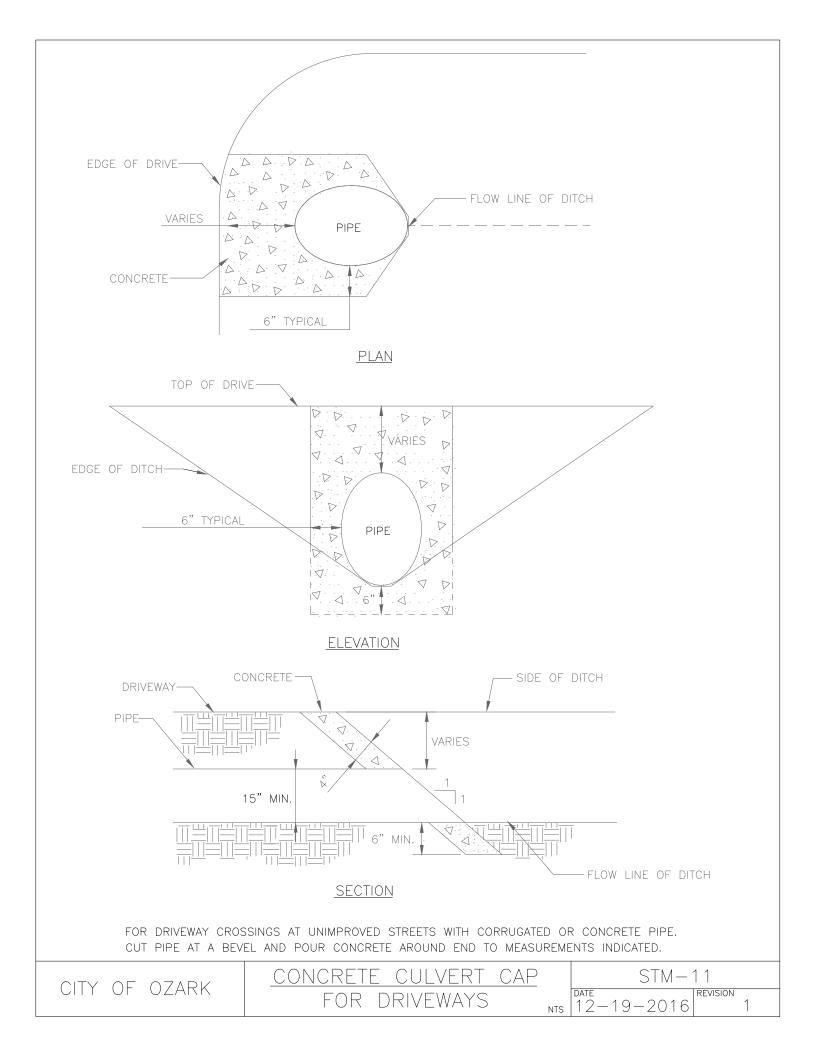


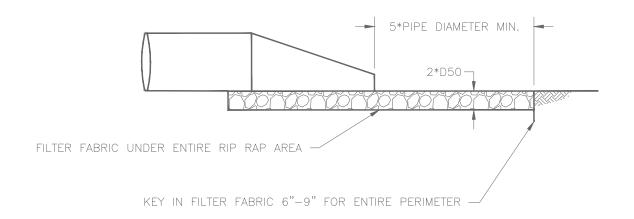


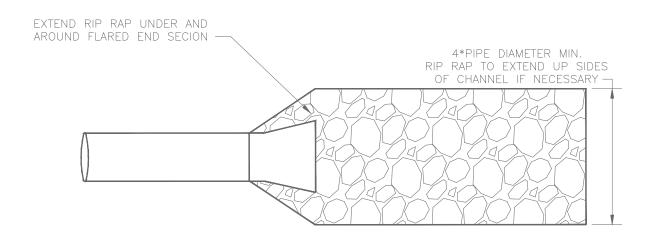
CITY OF OZARK

RING AND COVER FOR STORM INLET, STORM MANHOLE & JUNCTION BOX NTS 12-19-2016

STM-10







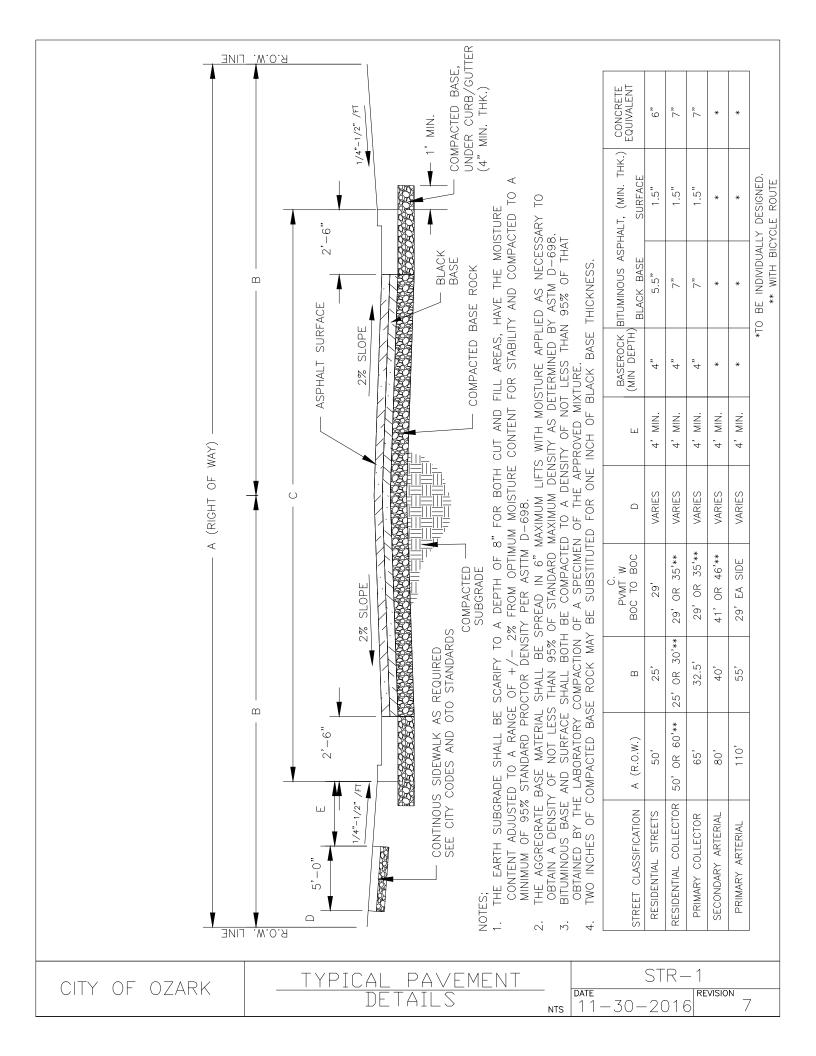
VELOCITY (FPS)	RIP RAP D50 MIN DIAMETER (INCHES)	
V<8	12	
8 <v<12< th=""><th colspan="2">24</th></v<12<>	24	
V>12	NOT PERMITTED	

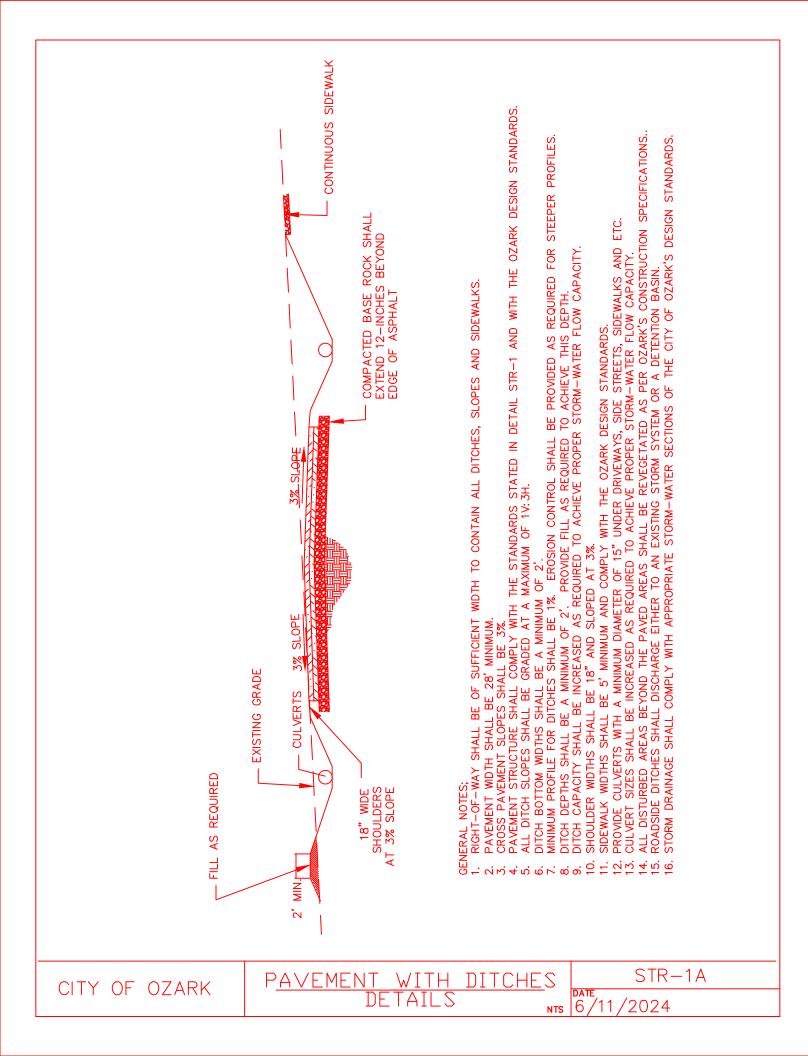
D50 OF LESS THAN 12 INCHES IS NOT PERMITTED

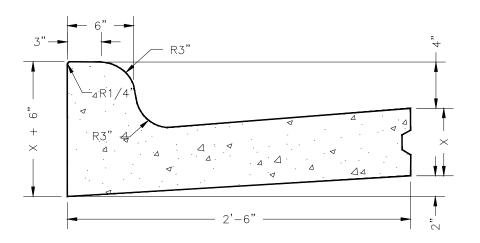
NOTES;

- 1. FOR PIPES WITH HEADWALLS, BEGIN RIP RAP AT TOE OF HEADWALL. RIP RAP MINIMUM WIDTH TO BE WIDTH OF HEADWALL PLUS ONE FOOT BOTH SIDES.
- 2. FOR MULTIPLE PIPES AND ARCHED PIPES, RIP RAP TO BE AT A MINIMUM OF THE TOTAL WIDTH OF THE OPENING PLUS ONE FOOT ON BOTH SIDES.
- 3. D50 IS THE ROCK SIZE THAT CORRESPONDS TO 50 PERCENT OF THE ROCKS BEING SMALLER AND 50 PERCENT OF THE ROCKS BEING LARGER.

CITY OF OZARK	RIPRAP	STM-12	
	DETAIL	DATE 4-21-10	REVISION ()

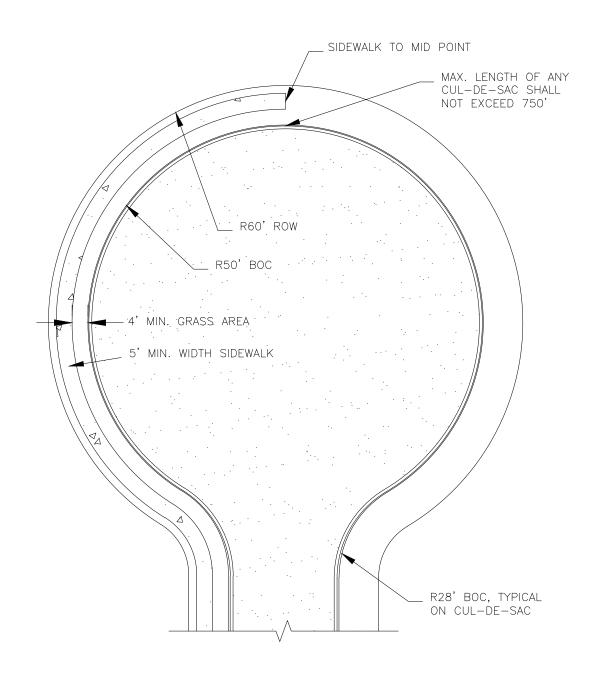






NOTE;

- 1. X DENOTES THE THICKNESS OF THE PAVEMENT, (ASPHALT OR CONCRETE).
- 2. PROVIDE THE KEYWAY OR #5 REBAR AT 2'-6" O.C. FOR ALL CONCRETE PAVEMENT. KEYWAY OR REBAR SHALL BE OMITTED FOR ASPHALT PAVEMENT.
- 3. EXPANSION JOINTS SHALL BE CONSTUCTED AS PER THE CONCRETE JOINT DETAIL. EXPANSION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL AND AT ALL STRUCTURES SUCH AS BOX CULVERTS, JUNCTION BOXES, INLETS AND ETC.
- 4. CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PER THE CONCRETE JOINT DETAIL. CONTRACTION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL AND AT INTERVALS OF NOT MORE THAN 25' NOR MORE THAN 25' FROM ANY EXPANSION JOINT.



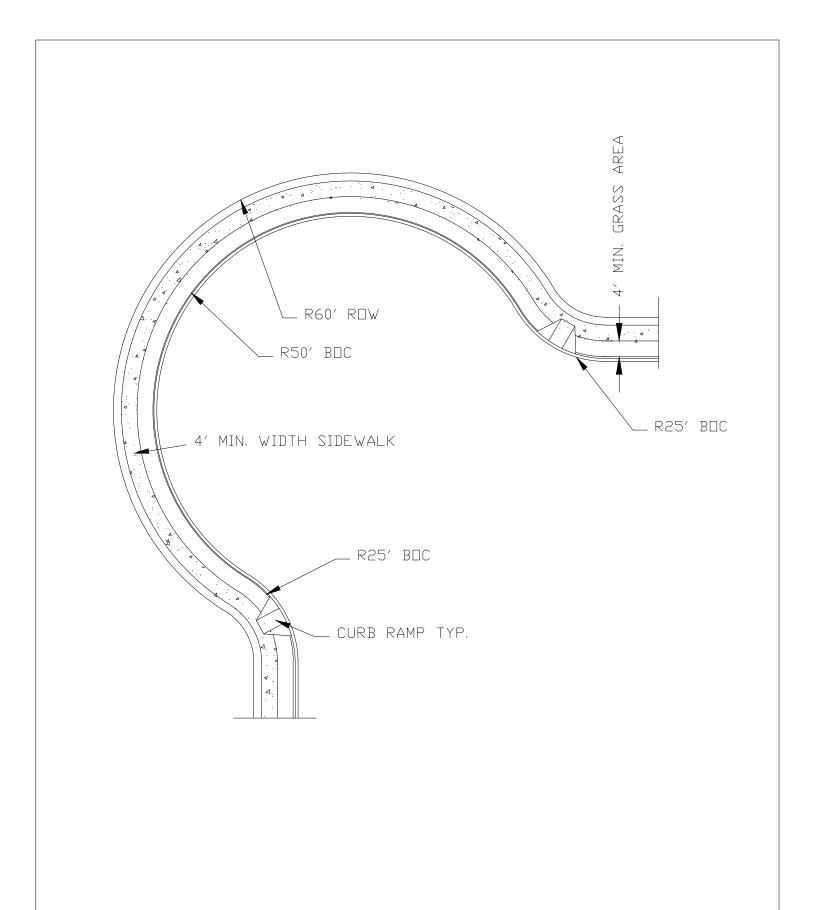
NOTE: 1. ALL SIDEWALKS TERMINATING IN CLU-DE-SACS MUST INCLUDE AN A.D.A. ACCESSIBLE ACCESS RAMP WITHIN THE CUL-DE-SAC..

CUL-DE-SAC PLAN MINIMUM STANDARDS

STR-3

DATE NTS 10-04-2024

REVISION



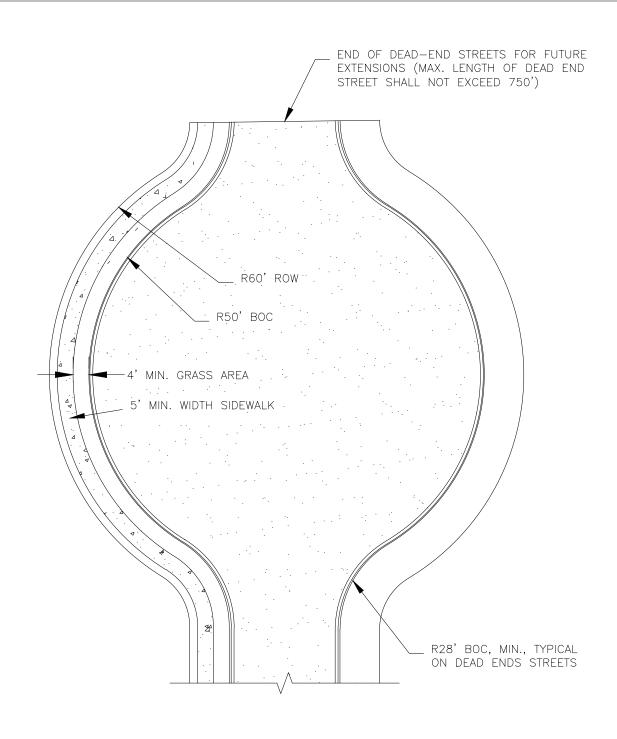
CITY OF OZARK

"KNUCKLES" PLAN MINIMUM STANDARDS

STR-3A

DATE 2-01-2021

REVISION



1. AN APPROPRIATE SIZED AND DESIGNED "T" TYPE MAY BE APPROVED ON A CASE BY CASE REQUEST.

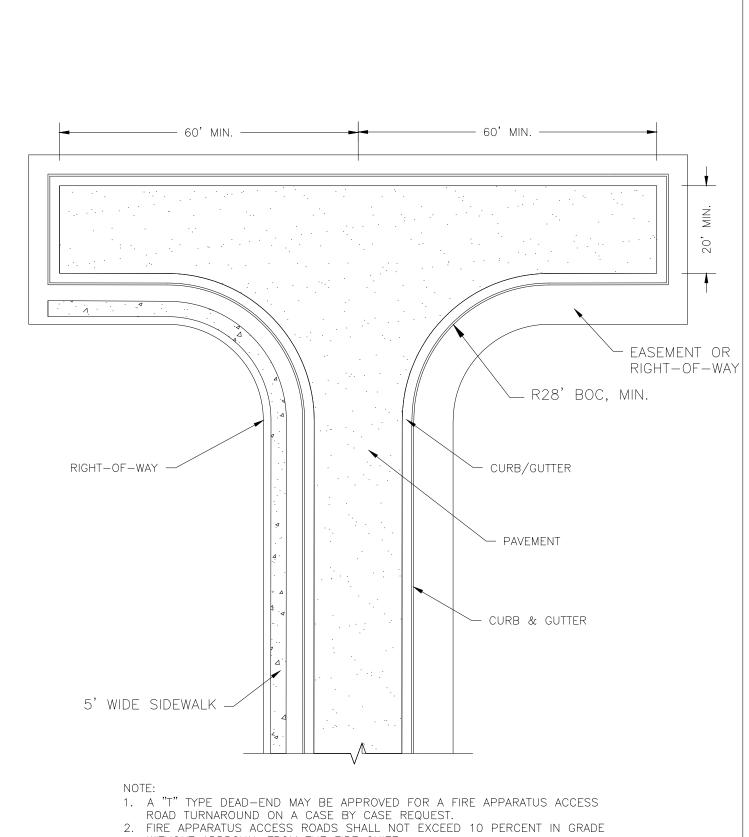
TEMPORARY DEAD ENDS CITY OF OZARK

MINIMUM STANDARDS

STR-4

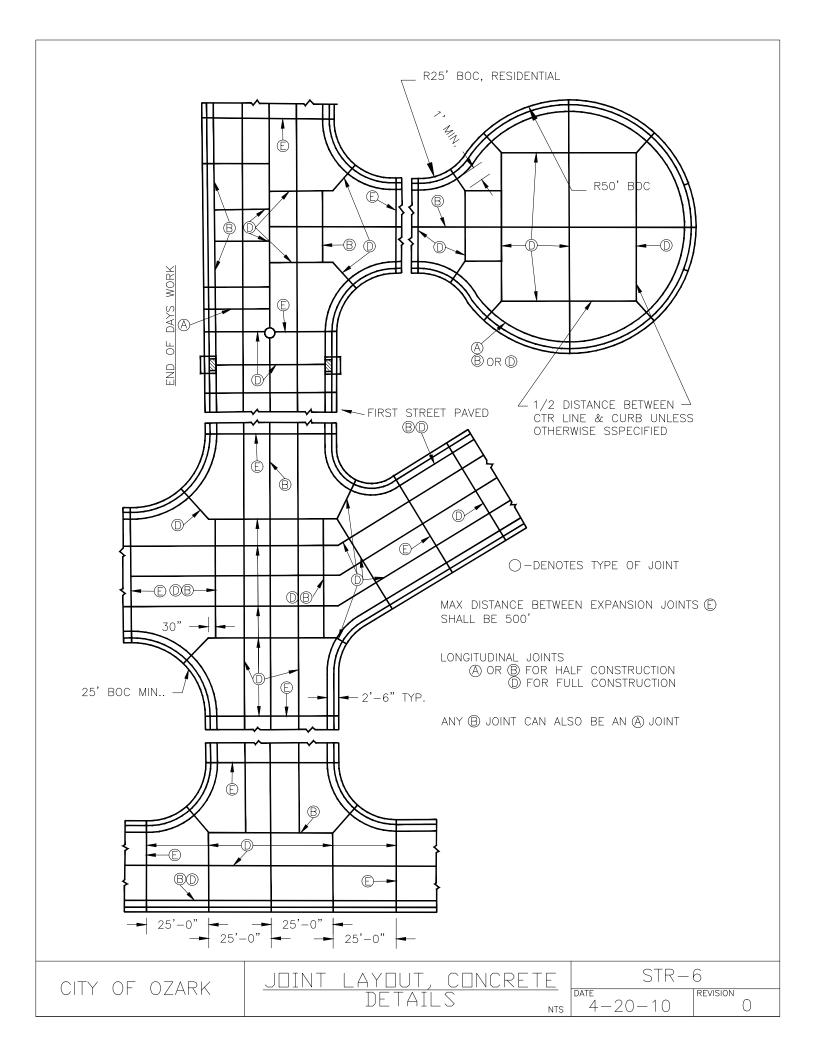
NTS 11 - 28 - 2016

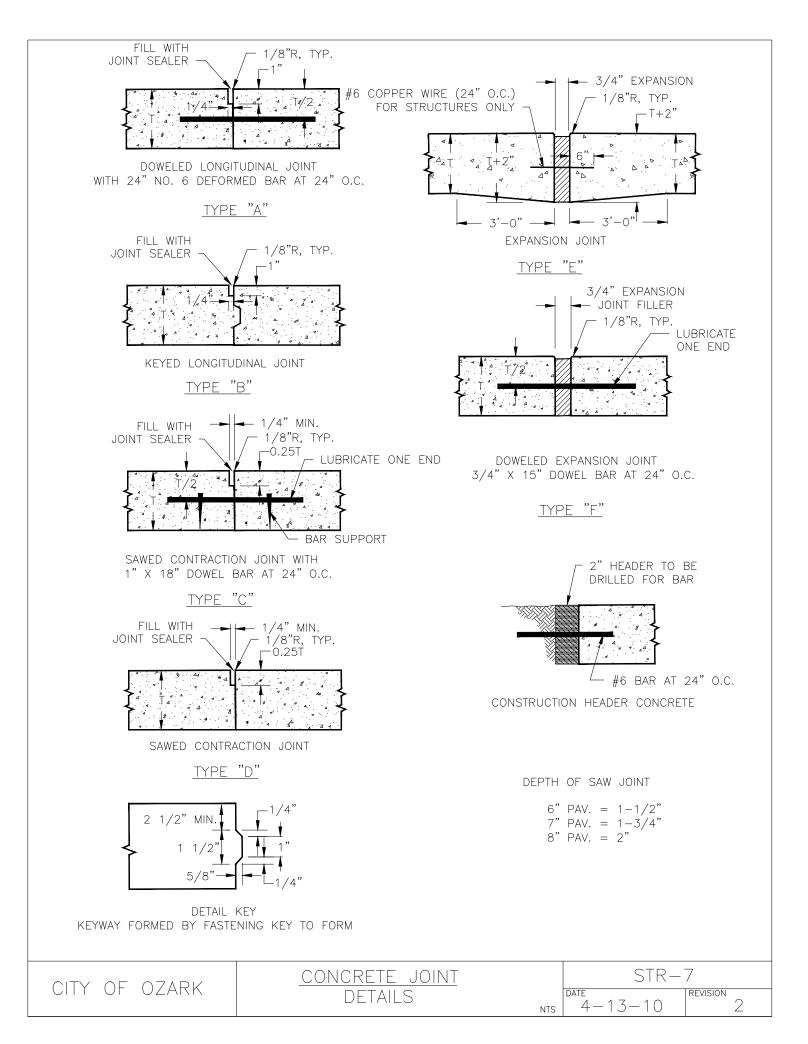
REVISION

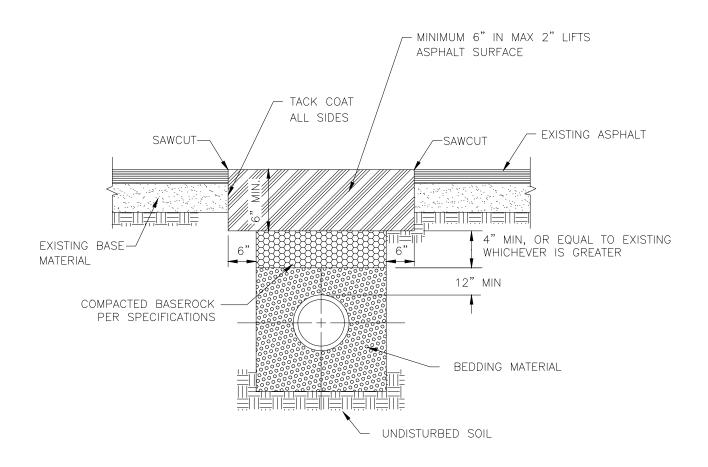


- WITHOUT APPROVAL FROM THE FIRE CHIEF.
- 3. PROVIDE APPROPRIATE STORM DRAINAGE.
- 4. LENGTH OF DEAD END STREETS SHALL NOT EXCEED 750'

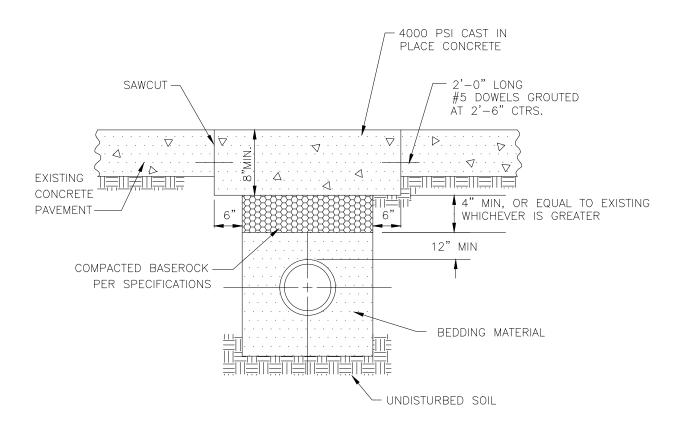
CITY OF OZARK	"T" HAMMERHEADS	STR-5	
	MINIMUM STANDARDS NTS	DATE 11-28-2016 REVISION 0	



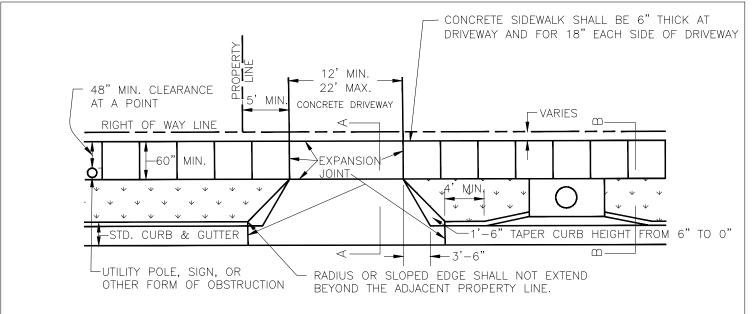




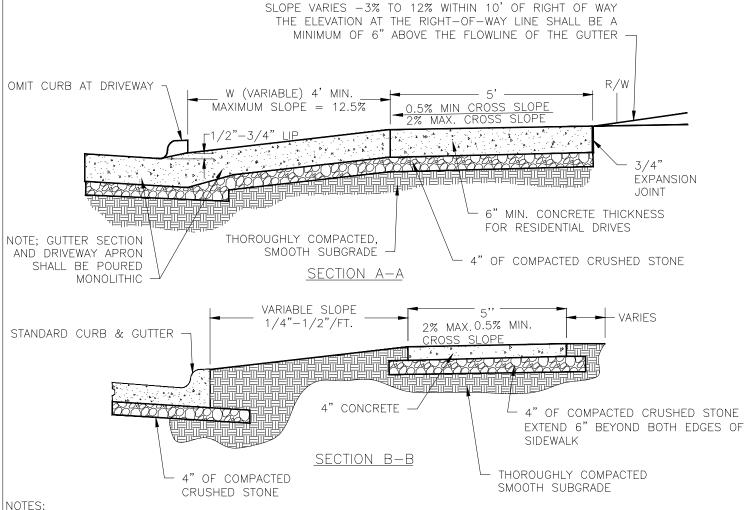
- 1. PROVIDE FLOWABLE FILL MIX TO TOP OF EXISTING ASPHALT FOR TEMPORARY DRIVING SURFACES.
- 2. COMPACTED BASE MUST HAVE OPTIMAL MOISTURE CONTENT AND BE COMPACTED TO 95% DENSITY EVERY LIFT FOOT.
- 3. PROVIDE TRACER WIRES AND WARNING TAPES AS SPECIFIED.
- 4. THE PUBLIC WORKS DIRECTOR MAY APPROVE A CONCRETE PATCH IN LIEU OF ASPHALT.



- 1. PROVIDE FLOWABLE FILL MIX TO TOP OF PATCH FOR TEMPORARY DRIVING SURFACE.
- 2. COMPACTED BASE MUST HAVE OPTIMAL MOISTURE CONTENT AND BE COMPACTED TO 95% DENSITY EVERY LIFT FOOT.
- 3. TEMPORARY 3" COLD MIX ASPHALT OR UPM PATCH MAY BE REQUIRED.
- 4. PROVIDE TRACER WIRES AND WARNING TAPE AS SPECIFIED.

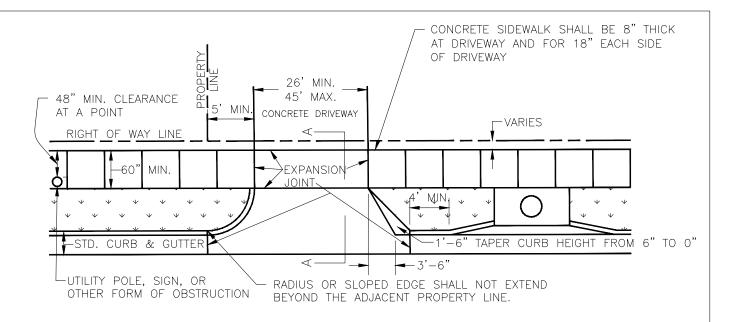


TYPICAL DRIVEWAY PLAN VIEW



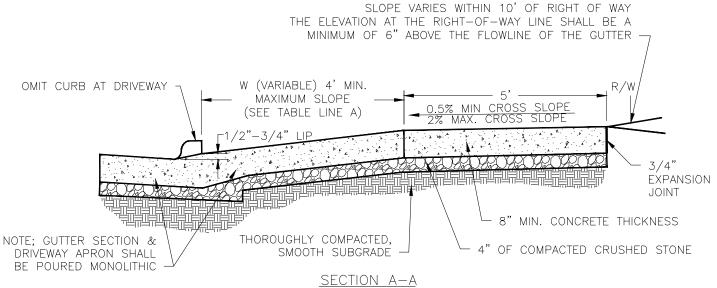
- 1. POSITIVE GUTTER FLOW SHALL BE MAINTAINED ACROSS ALL DRIVEWAYS.
- 2. REMOVAL OF EXISTING CURB/GUTTERS FOR DRIVEWAYS SHALL BE ACCOMPLISHED AT THE NEXT EXISTING JOINT.
- 3. DRIVEWAYS SHALL NOT BE LOCATED WITHIN 15' OF FIRE HYDRANTS. THEY SHALL ALSO NOT BE LOCATED OVER METER BOXES, VALVE BOXES OR MANHOLES. LOCATIONS OF DRIVEWAYS SHALL NOT INTERFERE WITH ANY OTHER UTILITY.

CITY OF OZADIZ	RESIDENTIAL DRIVEWAY	STR-10
CITI OF OZARK	AND SIDEWALK	NTS 10-03-2024 REVISION 6



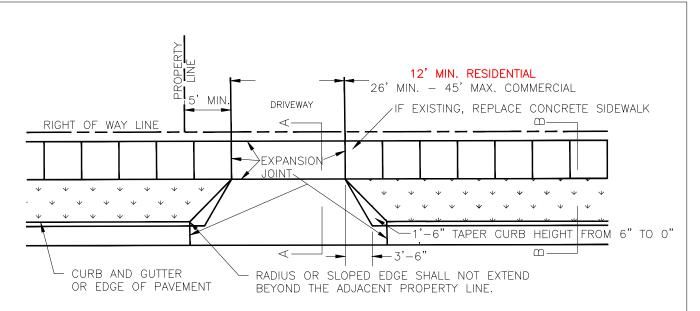
TYPICAL DRIVEWAY PLAN VIEW

REQUIRED DRIVEWAY GRADES					
	MAJOR ARTERIAL	SECONDARY ARTERIAL	COLLECTOR	RESIDENTIAL-COLLECTOR	
A. DRIVEWAY APPROACH GRADE	1/4"/FT TO 1/2"/FT	1/4"/FT TO 5/8"/FT	1/4"/FT TO 3/4"/FT	1/4"/FT TO 1"/FT	
B. MAXIMUM CHANGE OF GRADE AT BACK OF SIDEWALK	4%	5%	6%	8%	
C. SLOPE WITHIN 10 FEET OF RIGHT—OF—WAY LINE	-2% TO 6% 1/4"/FT TO 3/4"/FT	-3% TO 7% -3/8"/FT TO 7/8"/FT	-4% TO 8% -1/2"/FT TO 1"/FT	-6% TO 10% -3/4"/FT TO 1-1/4"/FT	

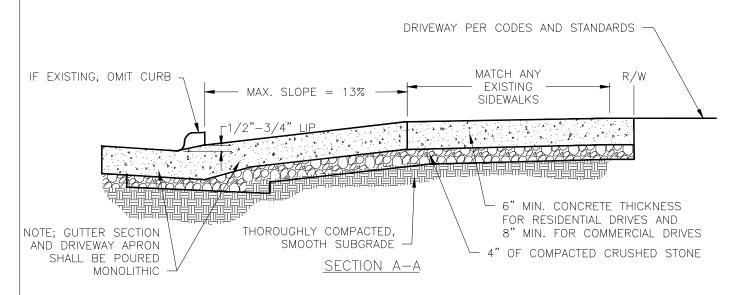


- 1. POSITIVE GUTTER FLOW SHALL BE MAINTAINED ACROSS ALL DRIVEWAYS.
- 2. REMOVAL OF EXISTING CURB/GUTTERS FOR DRIVEWAYS SHALL BE ACCOMPLISHED AT THE NEXT EXISTING JOINT.
- 3. DRIVEWAYS SHALL NOT BE LOCATED WITHIN 15' OF FIRE HYDRANTS. THEY SHALL ALSO NOT BE LOCATED OVER METER BOXES, VALVE BOXES OR MANHOLES. LOCATIONS OF DRIVEWAYS SHALL NOT INTERFERE WITH ANY OTHER UTILITY.

CITY OF OZARK	COMMERCIAL DRIVEWAY	STR-11
	AND SIDEWALK	NTS 10-03-2024 REVISION 1



TYPICAL DRIVEWAY ADDITION PLAN VIEW



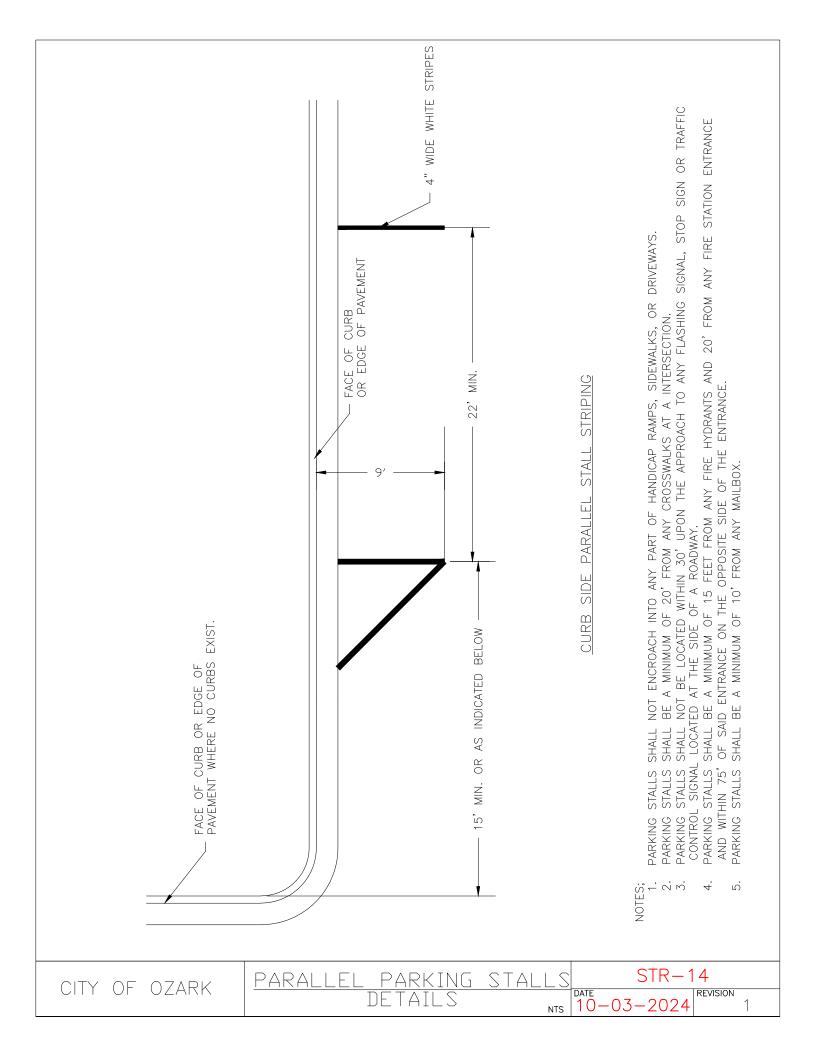
NOTES;

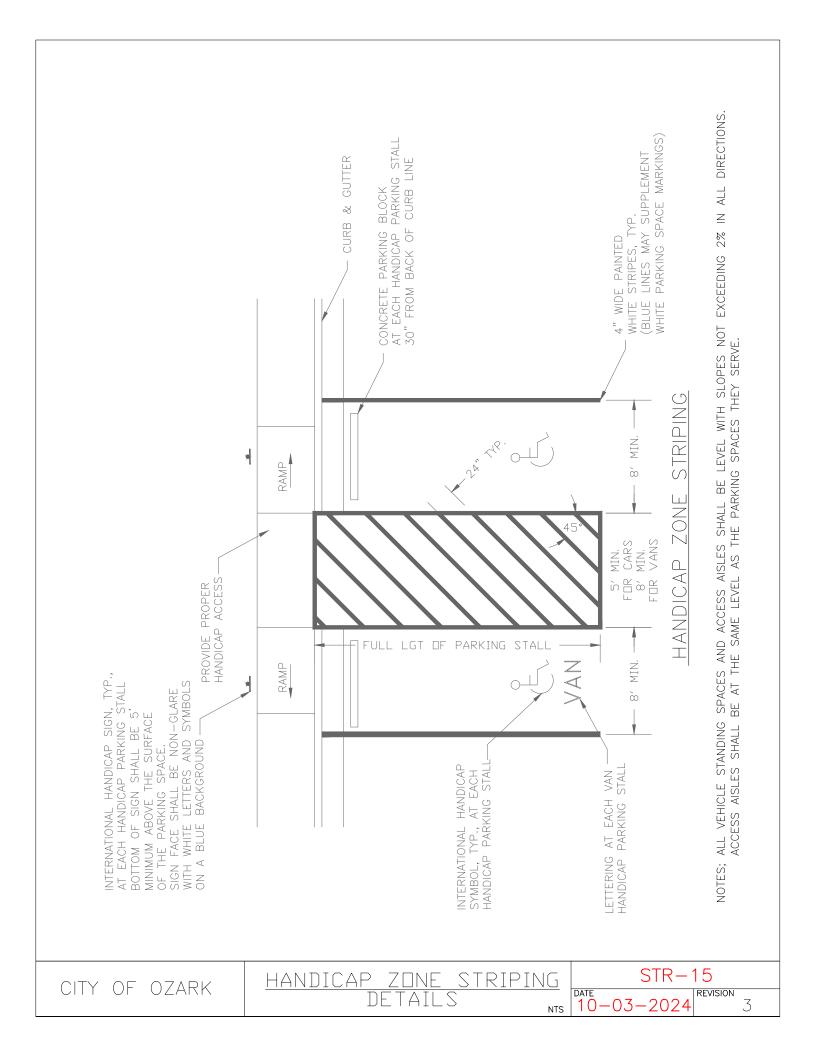
- 1. THE PURPOSE OF THIS DETAIL IS TO PROVIDE GUIDANCE FOR INSTALLATION OF A DRIVEWAY AT A LOCATION WHERE NO DRIVEWAY EXISTS OR FOR REPLACEMENT OF AN EXISTING DRIVEWAY. SEE OTHER STANDARD DETAILS FOR DRIVEWAYS IN NEW SUBDIVISIONS.
- 2. DRIVEWAYS SHALL NOT BE LOCATED WITHIN 15' OF FIRE HYDRANTS. THEY SHALL ALSO NOT BE LOCATED OVER METER BOXES, VALVE BOXES NOR MANHOLES. LOCATIONS OF DRIVEWAYS SHALL NOT INTERFERE WITH ANY OTHER UTILITY SUCH AS UTILITY POLES, STORM BOXES AND ETC.
- 3. REMOVAL OF ANY EXISTING CURB/GUTTER SHALL BE ACCOMPLISHED AT THE NEXT EXISTING JOINT.
- 4. POSITIVE GUTTER FLOW SHALL BE MAINTAINED ACROSS ALL DRIVEWAY OPENINGS.
- 5. THE CONCRETE APPROACH SHALL EXTEND TO THE RIGHT-OF-WAY, (PROPERTY LINE).
- 6. ENSURE THAT THE APPROACH SLOPE IS OF SUFFICIENT HEIGHT TO DETER THE ENTRANCE OF STORM-WATER FROM THE GUTTER.
- 7. ANY SIDEWALK REMOVED FOR A DRIVEWAY INSTALLATION SHALL BE REINSTALLED TO EXISTING WIDTH AND MATERIAL
- 8. DRIVEWAY SURFACING SHALL COMPLY WITH APPROPRIATE CODES AND STANDARDS FOR THE SITE..

CITY OF OZARK	ADDED DRIVEWAY	STR-12		
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OF LIGHT SHEET METAL OR PLASTIC CONSTRUCTION CONFORMING TO THE REQUIREMENTS OF THE U.S. POSTAL SERVICE. BOXES SHALL BE OF LIGHT SHEET METAL OR PLASTIC CONSTRUCTION OF MINIMUM DIMENSIONS SUITABLE FOR HOLDING TO BE SAFE BY CRASH TESTS WHEN WHERE A MAILBOX IS LOCATED AT A DRIVEWAY ENTRANCE, IT SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF INTO THE GROUND WILL BE ACCEPTABLE AS A MAILBOX SUPPORT. A METAL POST SHALL NOT BE FITTED WITH AN ANCHOR PLATE, BUT IT HOWEVER, LIGHWEIGHT NEWSPAPER BOXES MAY BE MOUNTED BELOW Support posts shall be three-fourths (3/4) the height of the posts above INCH DIAMETER STANDARD STRENGTH STEEL PIPE AND EMBEDDED NO MORE THAN TWENTY-FOUR (24) INCHES THE DISTANCE SHALL BE INCREASED TO ONE HUNDRED (100) OR A METAL POST WITH A STRENGTH NO TO 12" STRUCTURE AND MAILBOX NO MAILBOX WILL BE PERMITTED WHERE ACCESS IS OBTAINED FROM THE LANES OF A FREEWAY OR WHERE ACCESS IS OTHERWISE WHERE A MAILBOX IS LOCATED AT AN INTERSECTING ROAD, IT SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET BEYOND THE BOX TO POST ATTACHMENT SHALL BE OF SUFFICIENT STRENGTH TO PREVENT THE BOX FROM SEPARATING FROM THE POST 3 WHEN THE AVERAGE DAILY TRAFFIC ON THE INTERSECTING ROAD EXCEEDS FOUR HUNDRED (400) VEHICLES PER DAY (10) INCHES BELOW THE GROUND SURFACE. SUPPORT BEEN SHOWN **IMPROVED** STREETS A SINGLE FOUR (4) INCH OR FOUR AND ONE-HALF (4 1/2) INCH DIAMETER WOODEN POST UNLESS SET IN CONCRETE UNLESS THE SUPPORT DESIGN HAS PLASTIC CONSTRUCTION CONFORMING STRUCTURE SUPPORT DELIVERY ROUTE. HAVE AN ANTI-TWIST DEVICE THAT EXTENDS NO MORE THAN TEN BE MOUNTED ON A SUPPO SAFE BY CRASH TESTING. TO ENSURE PLACEMENT ON CORRECT SIDE OF STREET REVIEW. MAILBOX LOCATIONS SHALL BE COORDINATED WITH THE OZARK SUBMITTED FOR UNIMPROVED STREETS WITHOUT SHOULDERS THE INTERSECTING ROAD IN THE DIRECTION OF THE THE MINIMUM SPACING BETWEEN THE CENTERS OF OF LIGHT SHEET METAL OTHER MAILBOX SUPPORT DESIGNS MAY BE BEEN SHOWN TO BE MAILBOXES MAY NSTALLATION IS STRUCK BY A VEHICLE. PROHIBITED BY LAW OR REGULATION. B MAILBOX SUPPORTS SHALL NOT GREATER THAN A TWO (2) (2)NEWSPAPER DELIVERY DELIVERY ROUTE. BH ARRANGEMENT HAVE MAILBOXES SHALL GROUNDLINE. NO MORE THAN ALL-WEATHER SHOULDER A NEWSPAPER. SO INSTALLED. POST OFFICE STRUCTURE NOTES: OCATION NOTES: UNIMPROVED STREETS SHOULDERS MAY H H 4. М, ζ. $\dot{\alpha}$ 4. S. Ö. ∞ STR--13 MAILBO DETAIL CITY OF OZARK REVISION DATE 1 10 03 - 2024NTS

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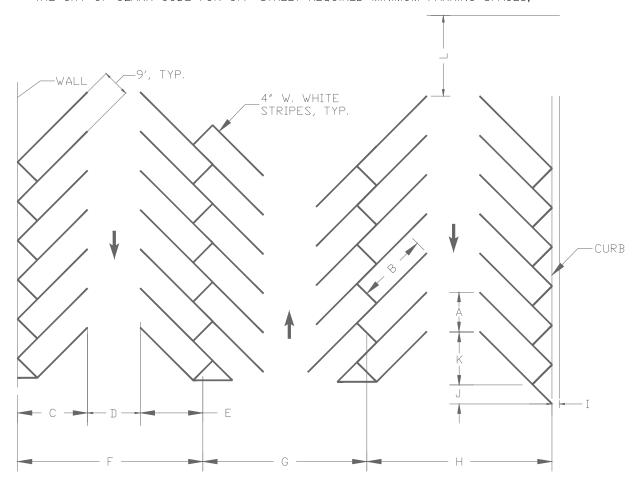




MINIMUM REQUIREMENTS FOR LAYOUT ELEMENTS

NOTES;

- 1. ON STREET ANGLE PARKING SHALL ALSO COMPLY WITH THE LAYOUT BELOW. PARALLEL PARKING STALLS SHALL PROVIDE A MINIMUM STALL WIDTH OF 9' AND LENGTH OF 22'.
- 2. FOR COMMERICAL AND INDUSTRIAL USES, 10' WIDE STALLS MAY BE SUBSTITUTED FOR 9' WIDE STALLS AT THE RATE OF 1.11 PER 1. THEREFORE, FOR EVERY 10 TOTAL 9' WIDE STALLS REQUIRED, THE PROPERTY OWNER/DEVELOPER MAY SUBSTITUTE 9 TOTAL 10' WIDE STALLS AND STILL MAINTAIN COMPLIANCE WITH THE CITY OF OZARK CODE FOR OFF-STREET REQUIRED MINIMUM PARKING SPACES.



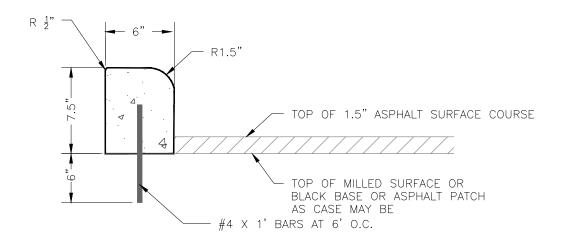
PARKING LAYOUT DIMENSIONS (IN FEET) FOR 9' WIDE STALLS AT VARIOUS ANGLES						
DIMENSIONS	SYMBOL	90	75	60	45	30
STALL WIDTH, PARALLEL TO AISLE	А	9.0	9.3	10.4	12.7	18.0
STALL LENGTH OF LINE	В	18.5	20.0	22.0	25.0	34.1
STALL DEPTH TO WALL	С	18.5	19.5	19.0	17.5	17.1
AISLE WIDTH BETWEEN STALL LINES	D	26.0	23.0	16.0	12.0	10.0
STALL DEPTH, INTERLOCK	Е	18.5	18.8	17.5	15.3	13.2
MODULE, WALL TO INTERLOCK	F	63.0	61.3	52.5	44.8	40.3
MODULE, INTERLOCKING	G	63.0	61.0	51.0	42.6	36.4
MODULE, INTERLOCK TO CURB FACE	Н	60.5	58.8	50.2	42.8	38.8
BUMPER OVERHANG (TYPICAL)		2.5	2.5	2.3	2.0	1.5
OFFSET	J	0.0	0.5	2.7	6.3	13.5
SETBACK	K	0.0	5.0	8.3	11.0	16.0
CROSS AISLE, ONE-WAY	L	14.0	14.0	14.0	14.0	14.0
CROSS AISLE, TWO-WAY	L	24.0	24.0	24.0	24.0	24.0

NOTE;

ANY DESIRED VARIATION TO THE LAYOUT SHOWN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE.

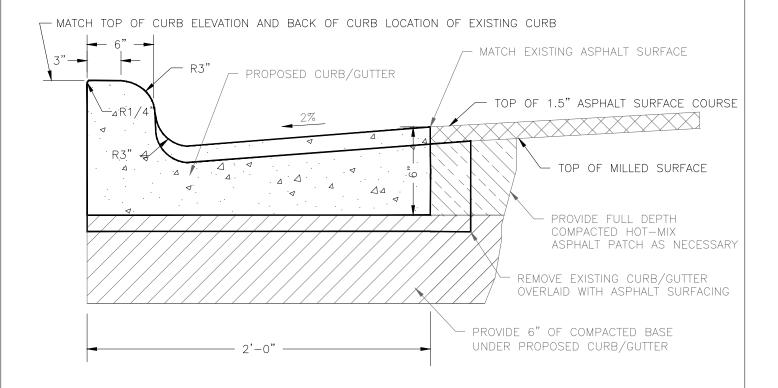
PARKING STALL LAYOUT DETAILS

STR-16
DATE REVISION 10-03-2024



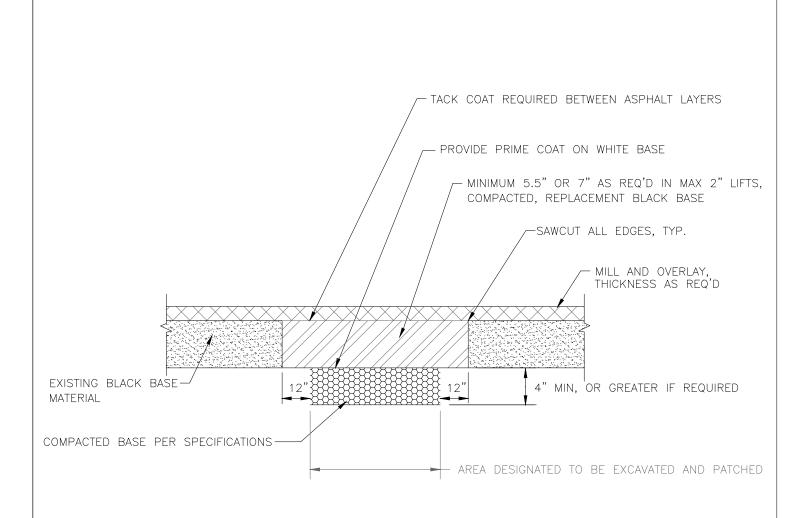
NOTE;

- 1. CURBS MAY BE PRE-CAST OR CAST IN PLACE CONCRETE.
- 2. INSTALL AS REPLACEMENT FOR ASPHALT CURB. PROVIDE ASPHALT PATCH IF NECESSARY AFTER REMOVAL OF ASPHALT CURB.
- 3. INSTALL AS REPLACEMENT FOR BROKEN CURB.
- 4. PROVIDE OPENINGS FOR DRIVEWAYS AND ANY WALKWAYS WHERE EXISTING OPENINGS OCCUR.
- 5. EXPANSION JOINTS SHALL BE CONSTUCTED AS PER THE CONCRETE JOINT DETAIL. EXPANSION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL.
- 6. CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PER THE CONCRETE JOINT DETAIL. CONTRACTION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL AND AT INTERVALS OF NOT MORE THAN 25' NOR MORE THAN 25' FROM ANY EXPANSION JOINT.

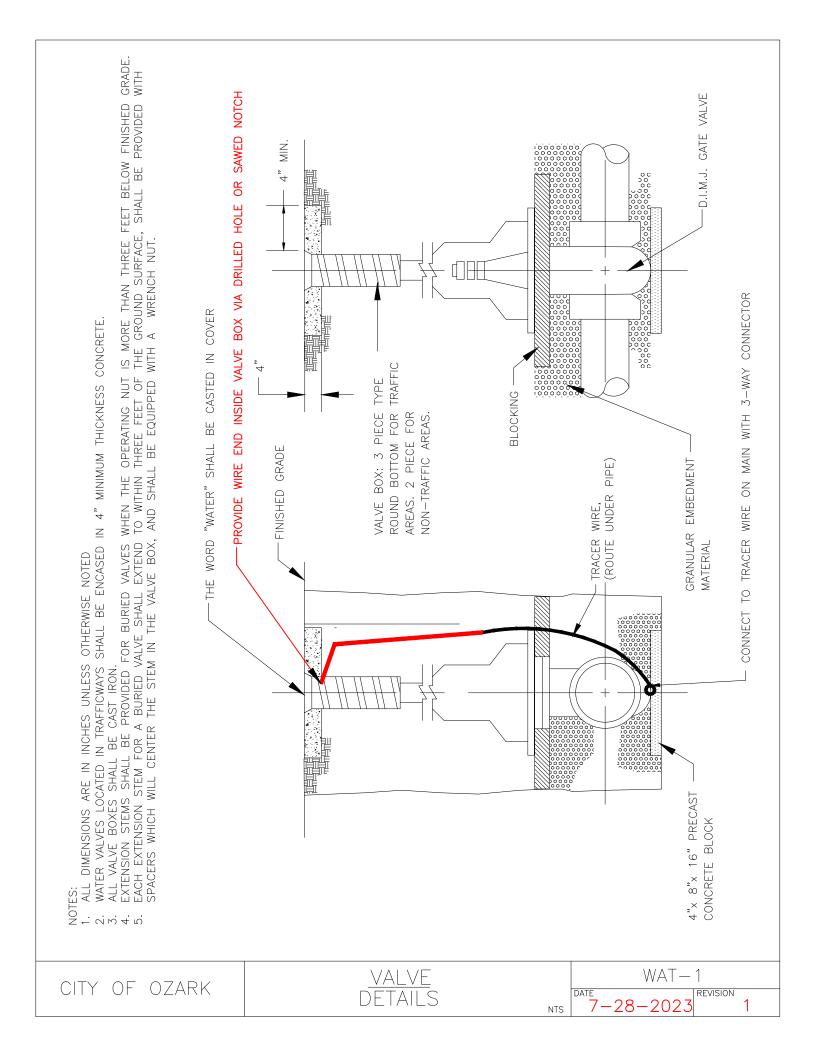


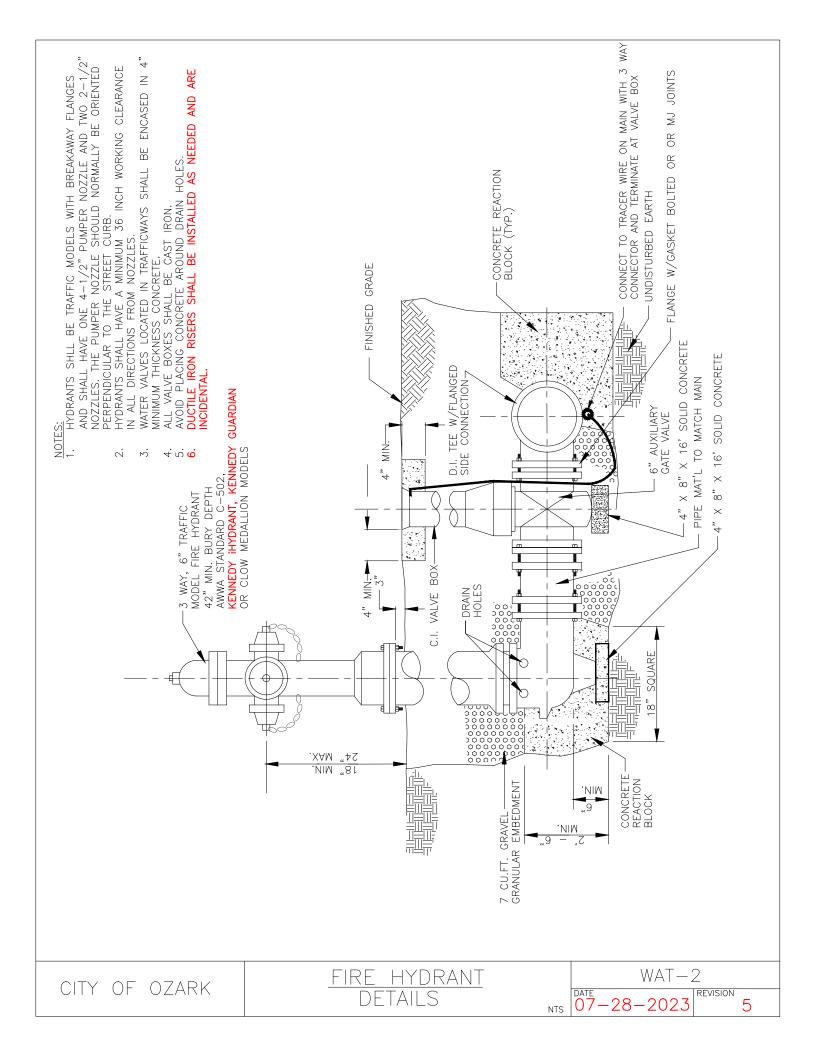
- 1. REPLACE EXISTING CONCRETE CURB/GUTTER THAT HAS BEEN PREVIOUSLY OVERLAID WITH ASPHALT WITH A PROPOSED CONCRETE CURB/GUTTER OF 2' WIDTH AND WITH SHORTER CURB HEIGHT TO MATCH EXISTING TOP OF CURB ELEVATION.
- 2. PROVIDE OPENINGS FOR ANY DRIVEWAYS OR WALKWAYS WHERE EXISTING OPENINGS OCCUR.
- 3. EXPANSION JOINTS SHALL BE CONSTUCTED AS PER THE CONCRETE JOINT DETAIL. EXPANSION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL AND AT ALL STRUCTURES SUCH AS BOX CULVERTS, JUNCTION BOXES, INLETS AND ETC.
- 4. CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PER THE CONCRETE JOINT DETAIL. CONTRACTION JOINTS SHALL BE PLACED AS PER THE JOINT LAYOUT DETAIL AND AT INTERVALS OF NOT MORE THAN 25' NOR MORE THAN 25' FROM ANY EXPANSION JOINT.

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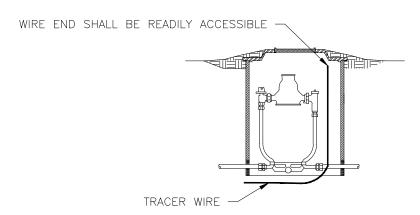
- 1. DETAIL FOR PATCHING PRIOR TO MILLING AND OVERLAY OF ASPHALT SURFACE.
- 2. COMPACTED WHITE BASE MUST HAVE OPTIMAL MOISTURE CONTENT AND BE COMPACTED TO 95% DENSITY EVERY LIFT FOOT.
- 3. REPLACE ANY DISTURBED TRACER WIRES AND WARNING TAPES AS REQUIRED.
- 4. IF THE CONTRACTOR ENCOUNTERS ADDITIONAL UNSUITABLE SUB-BASE, HE SHALL NOTIFY THE PUBLIC WORKS DIRECTOR OR HIS REPRESENTATIVE PRIOR TO PROCEEDING.





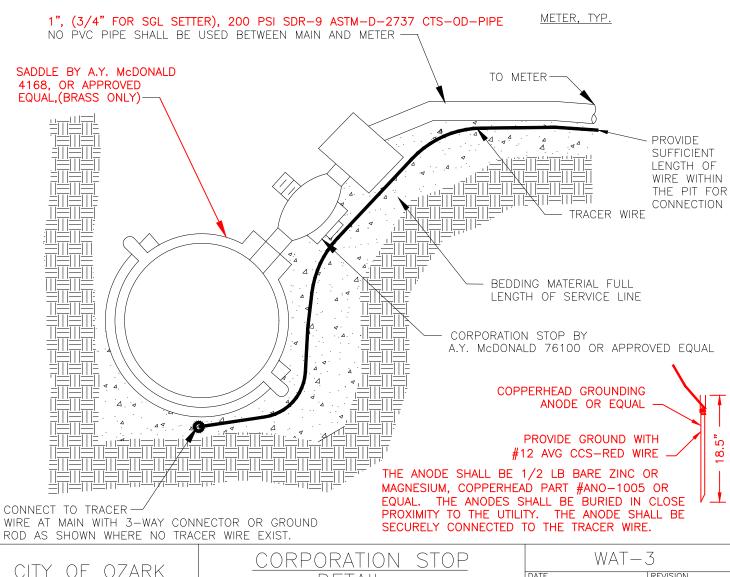
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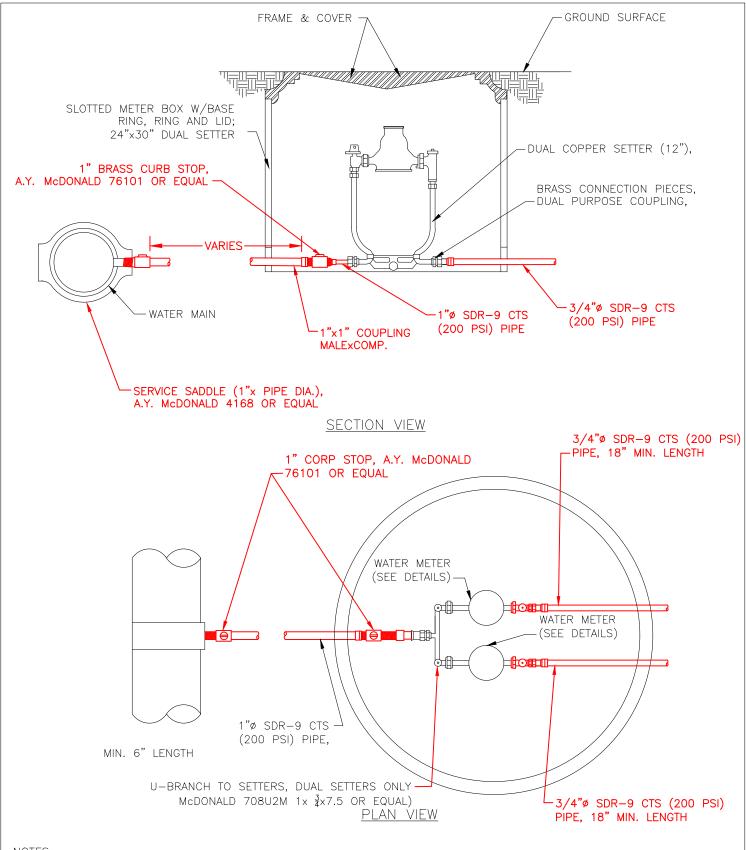
- PROVIDE APPROPRIATE WARNING TAPE LOCATED 18" TO 24" BELOW FINISH GRADE AT THE SERVICE LINE AND TRACER WIRE UNDER THE SERVICE LINE FROM THE MAIN TO WITHIN THE WATER METER PIT.
- TRACER WIRE SHALL BE PROVIDED FOR EVERY WATER SERVICE AND SHALL BE #12 AWG COPPER CLAD STEEL, (CCS). CORROSION PROOF/FILLED WIRE CONNECTIONS SHALL BE USED AT SPLICE LOCATIONS.
- THE TRACER WIRE CONDUCTIVITY SHALL BE TESTED PRIOR TO ACCEPTANCE.
- 4. WATER SERVICE SHALL BE PROVIDED TO EVERY BUILDABLE PLATTED LOT WITHIN A SUBDIVISION.
- 5. TAPPING SLEEVES AND VALVES SHALL BE USED WHERE REQUIRED TO CONNECT TO EXISTING IN-SERVICE MAINS.
- 6. THE MAXIMUM NUMBER OF UNITS TO BE CONNECTED ON A 1" WATER SERVICE SHALL BE ONE EACH DUPLEX.



REVISION

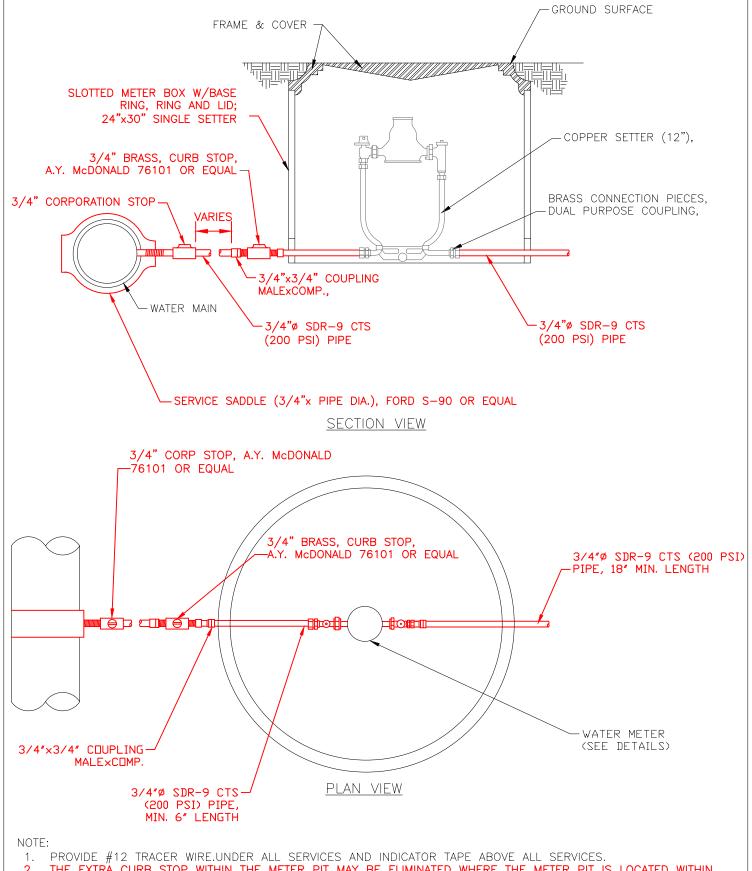
07-28-2023





- PROVIDE #12 TRACER WIRE.UNDER ALL SERVICES AND INDICATOR TAPE ABOVE ALL SERVICES.
 THE EXTRA CURB STOP AT THE METER PIT MAY BE ELIMINATED WHERE THE METER PIT IS LOCATED WITHIN CLOSE PROXIMITY, (10'), OF THE WATER MAIN AND THE WATER MAIN IS LOCATED OUTSIDE OF ALL PAVED AREAS.
- 3. ALL SERVICE LINES SHALL HAVE A MINIMUM OF 36" OF COVER FROM THE WATER MAIN INTO THE BUILDING.

CITY OF OZARK	DUAL SETTER WATER SERVICE	WAT-4
	DETAIL	NTS 07-28-2023 REVISION 3

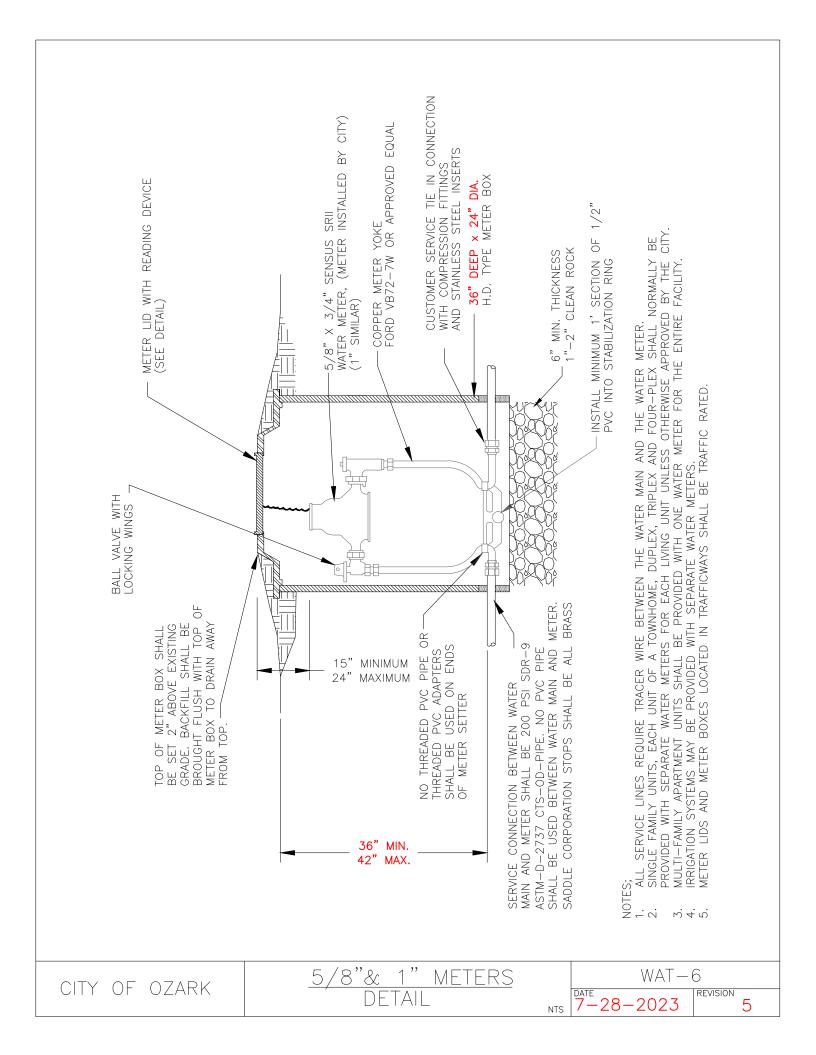


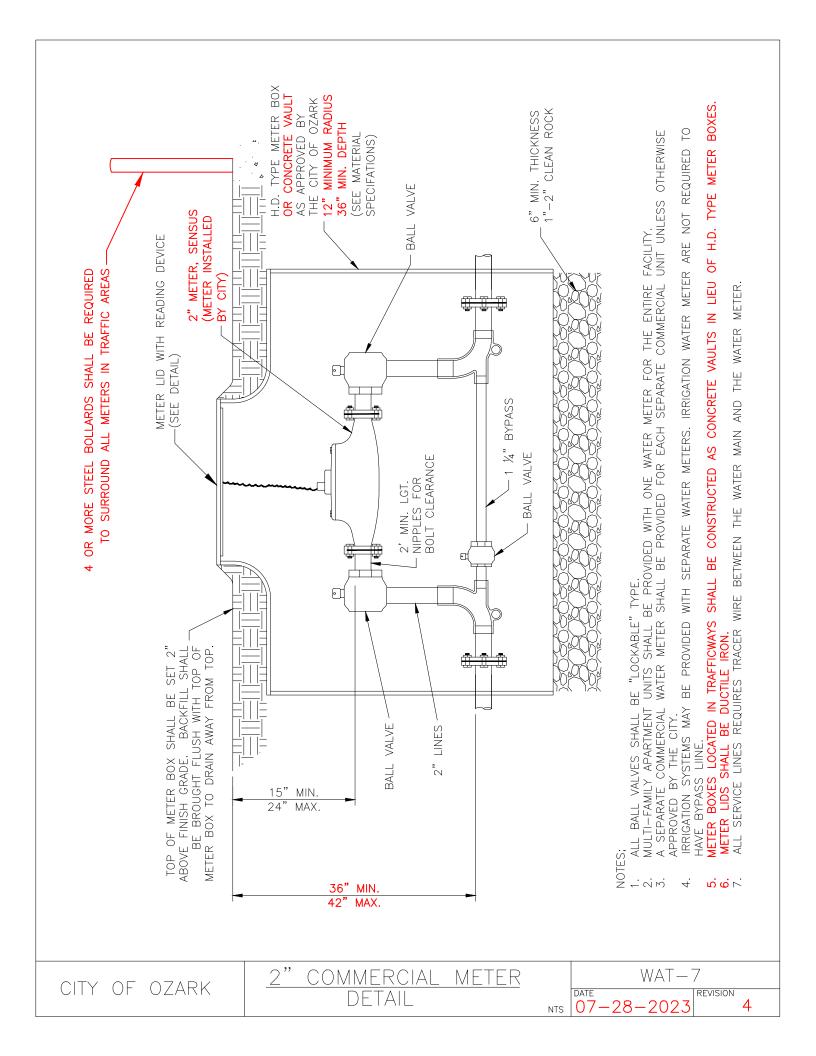
- 2. THE EXTRA CURB STOP WITHIN THE METER PIT MAY BE ELIMINATED WHERE THE METER PIT IS LOCATED WITHIN CLOSE PROXIMITY, (10'), OF THE WATER MAIN AND WATER MAIN IS LOCATED OUTSIDE OF ALL PAVED AREAS.
- 3. ALL SERVICE LINES SHALL HAVE A MINIMUM OF 36" OF COVER FROM THE WATER MAIN INTO THE BUILDING.

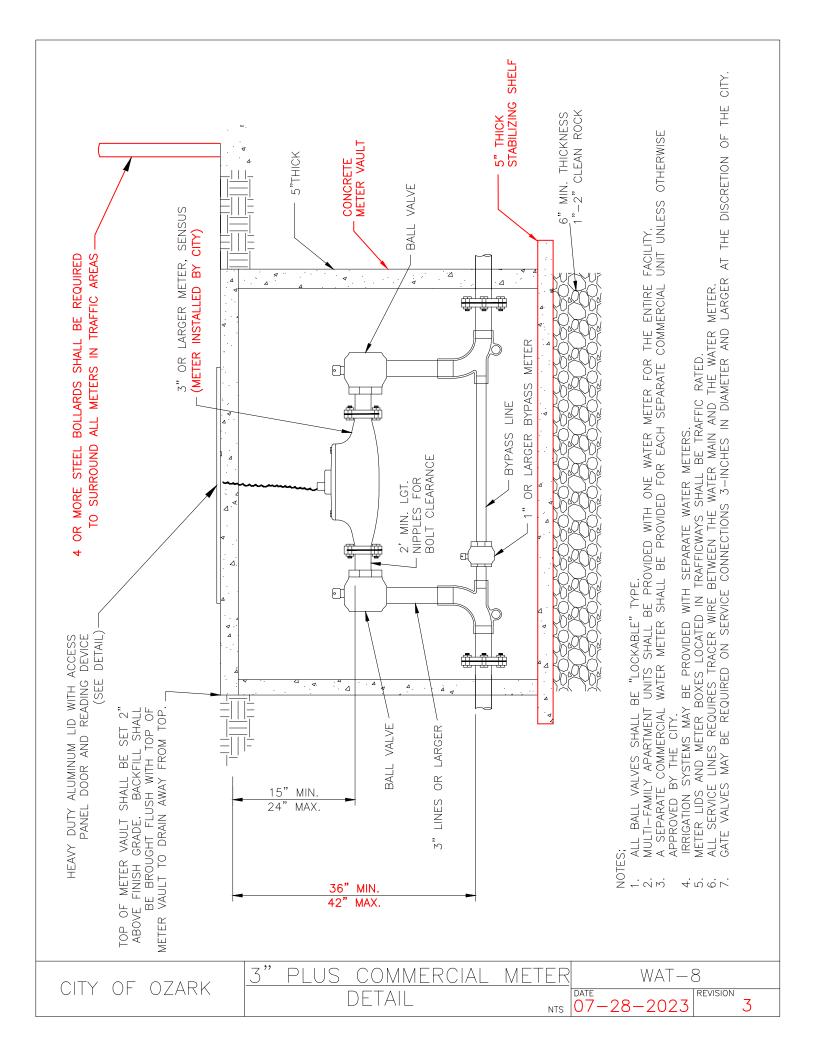
CITY OF OZARK

SGL SETTER WATER SERVICE
DETAIL

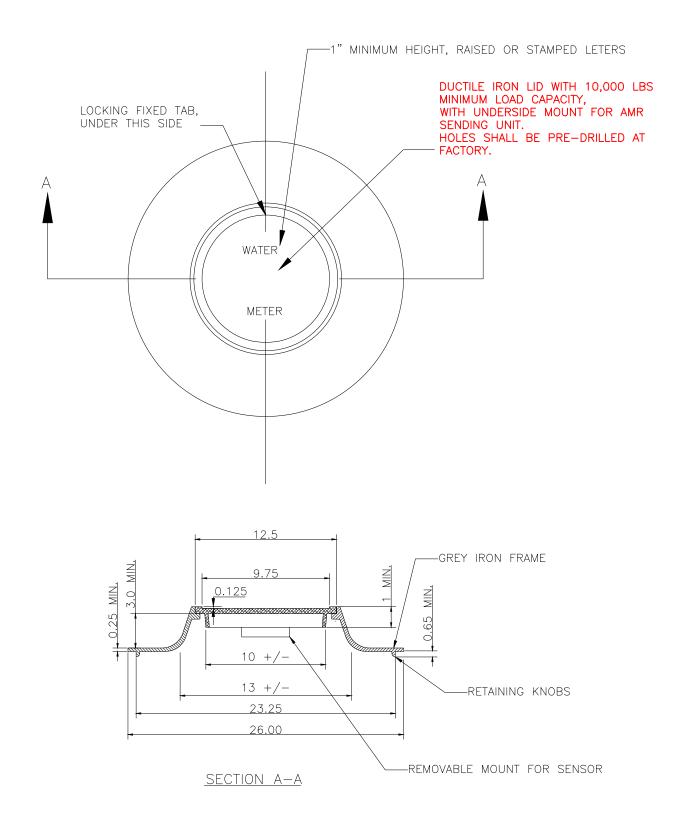
NTS DATE O7-28-2023 REVISION 1







- 1. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
 2. FRAME AND LID SHALL FIT AND LOCK TOGETHER TIGHTLY WITHOUT FORCING.



CITY OF OZARK

METER LID FOR READERS

WAT-9REVISION NTS 10-03-2024

