CITY OF KIRKWOOD

WATER SYSTEM STANDARD DRAWINGS

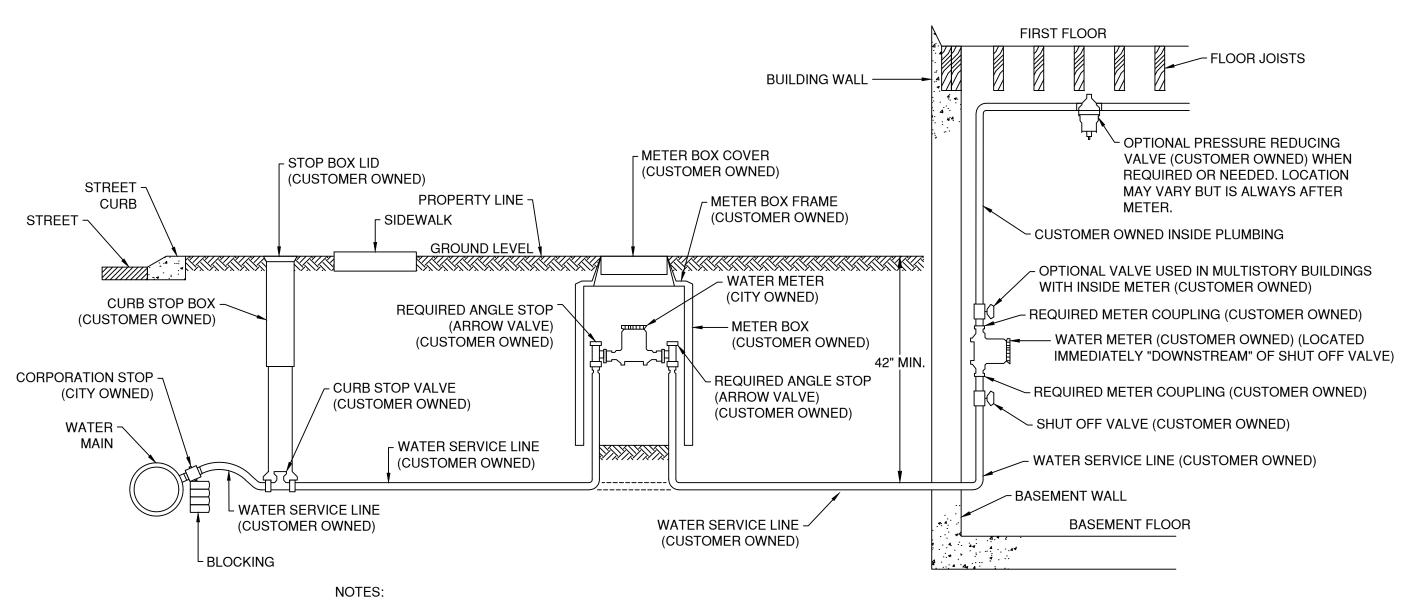


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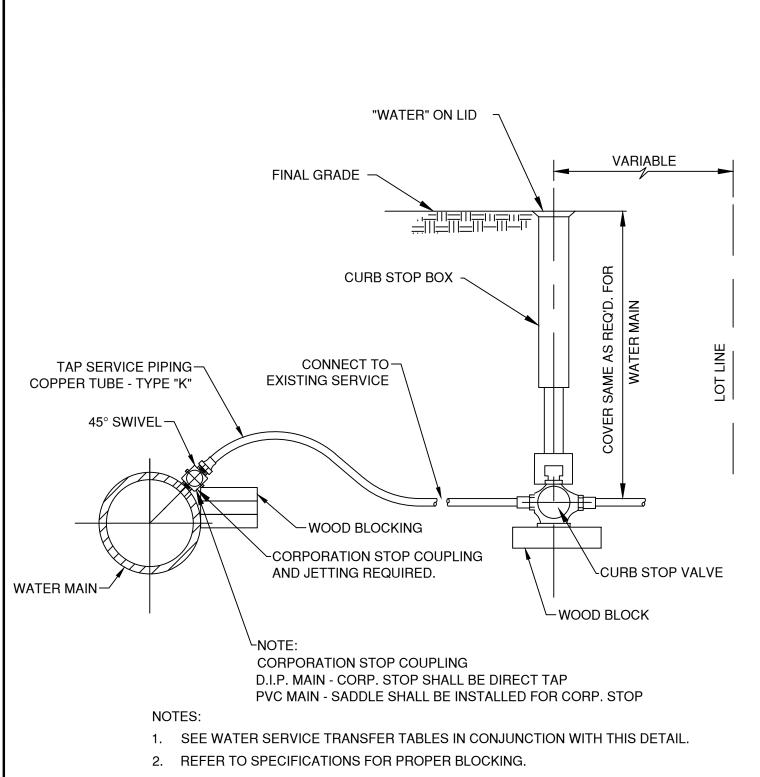
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DETAIL 1 OF	TITLE PAGE 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CHECKED: CMT DRAWN: CMT SCALE: NONE		NO DAT	E: REMARKS REVISION DESCRIPTIONS



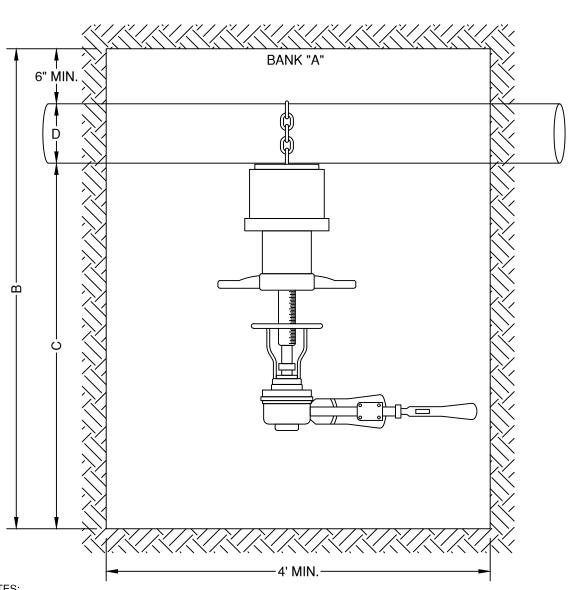
- 1. THIS DRAWING ILLUSTRATES BOTH OUTSIDE AND INSIDE METER SETTINGS.
- 2. IN SOME CASES, WATER MAIN WILL BE LOCATED ON OPPOSITE SIDE OF THE STREET.

	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
DETAIL NO.	CITY OF KIRKWOOD WATER DEPT.	CHECKED: CMT	S CAR		
1	WATER SERVICE AND METER DETAIL 139 S. KIRKWOOD ROAD	DRAWN: CMT		NO DATE:	. REMARKS
2 OF 17	KIRKWOOD, MISSOURI 63122	SCALE: NONE	ST - 1850	ISSUE / RI	EVISION DESCRIPTIONS



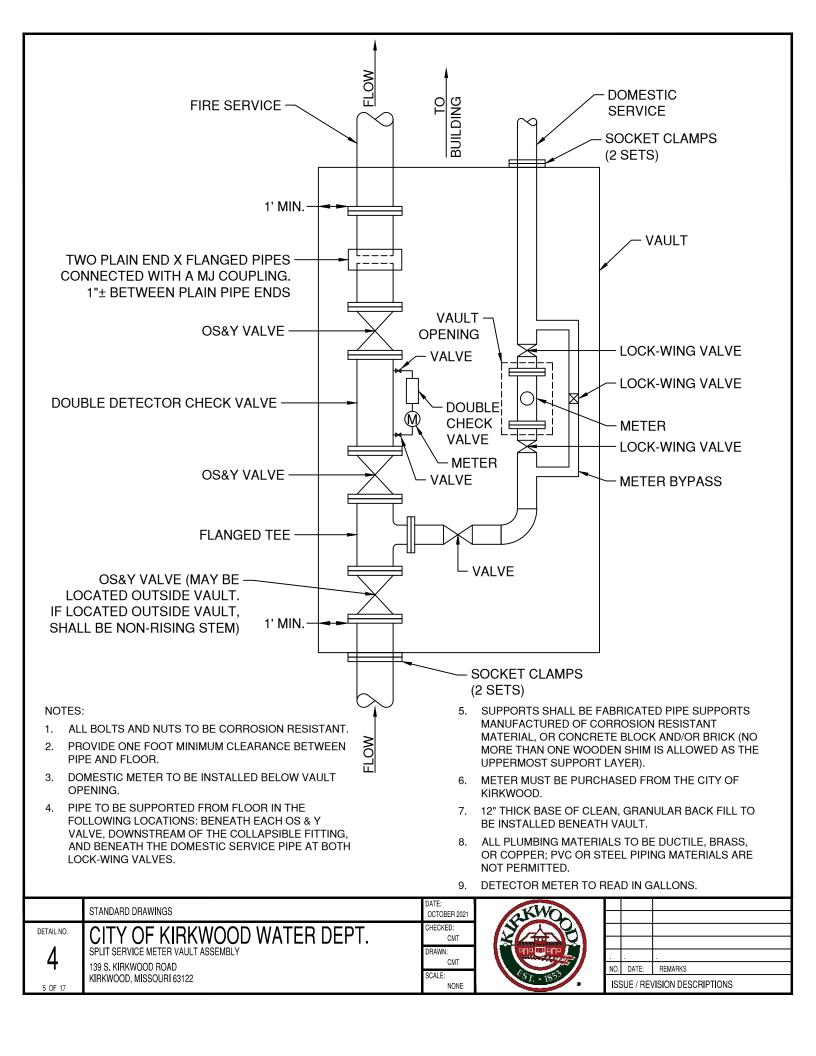
SEE SPECIFICATIONS FOR PROPER SERVICE CONNECTIONS.

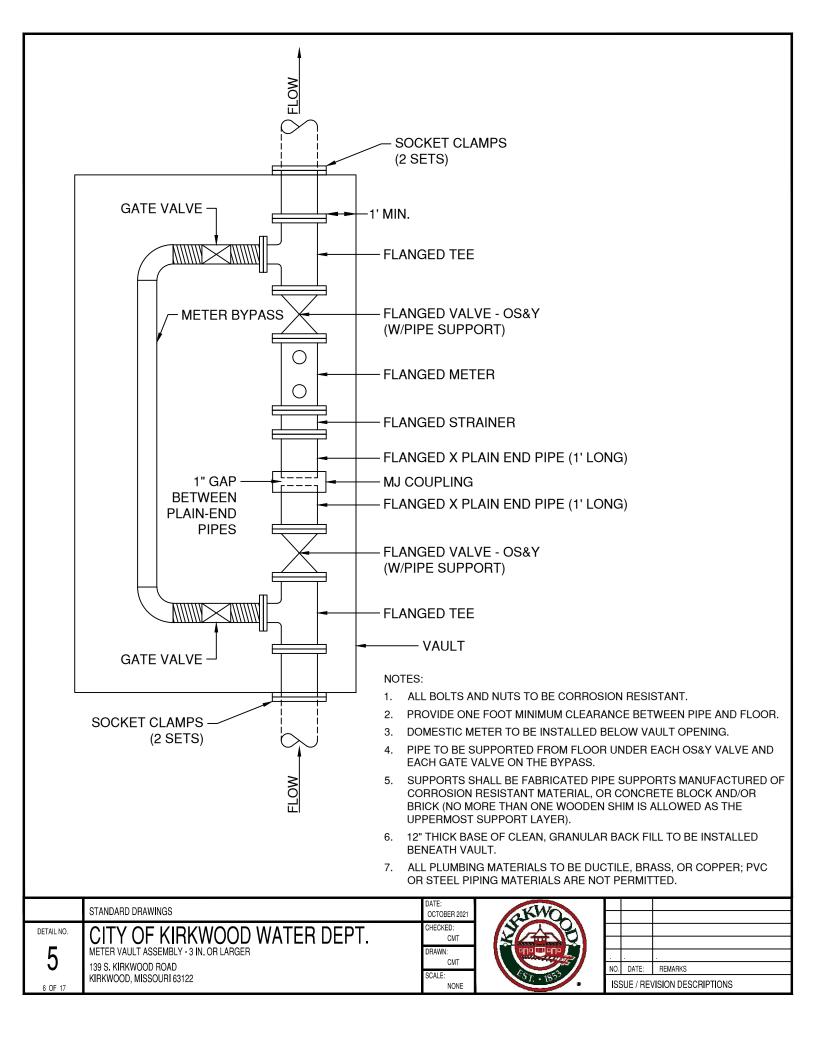
	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
DETAIL NO. 2 3 OF 17	CITY OF KIRKWOOD WATER DEPT. SERVICE TAP DETAIL 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CHECKED: CMT DRAWN: CMT SCALE: NONE		NO. DATE:	. REMARKS EVISION DESCRIPTIONS

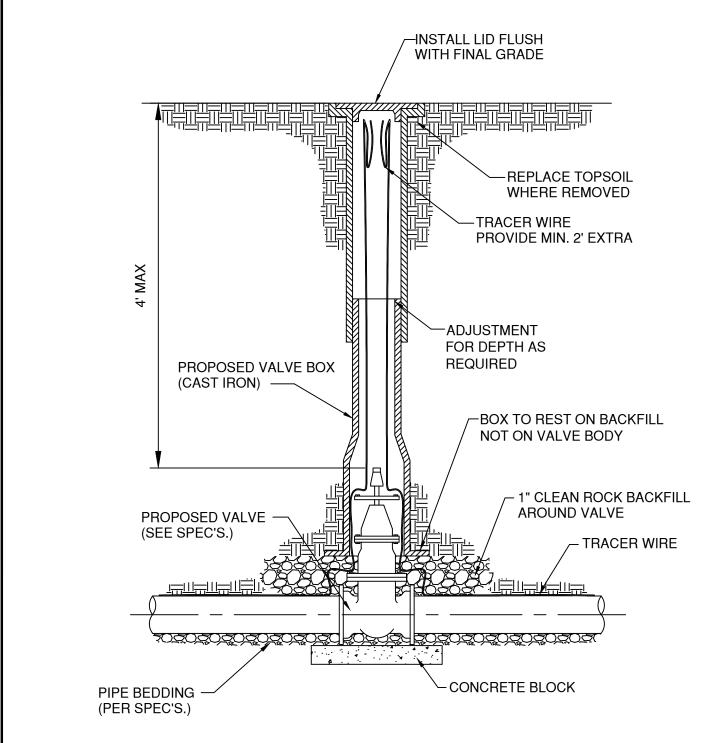


- 1. BANK "A" MUST BE AT LEAST 6" FROM THE NEAR EDGE OF MAIN FOR ENTIRE WIDTH.
- 2. DIMENSION "B" SHALL BE 5' MIN. FOR A 1" SERVICE CONNECTION AND 6' MIN. FOR A 1-1/2" OR 2" SERVICE CONNECTION.
- 3. DIMENSION "C" SHALL BE 4' MIN. FOR A 1" SERVICE CONNECTION AND 5' MIN. FOR A 1-1/2" OR 2" SERVICE CONNECTION.
- 4. DIMENSION "D" (MAIN SIZE) IS VARIABLE.
- 5. BOTTOM OF TAP HOLE MUST BE LEVEL AND AT LEAST 6" BELOW BOTTOM OF MAIN FOR ENTIRE WIDTH.
- 6. IF PIPE JOINT, VALVE, CLAMP, COUPLING, EXISTING TAP, OR ANY OTHER INTERRUPTION IN CLEAN, STRAIGHT, SMOOTH, CONTINUOUS PIPELINE IS VISIBLE IN EXCAVATION, CALL 984-5936 FOR REVIEW BEFORE COMPLETING EXCAVATION. TAPS SHALL NOT BE CLOSER THAN 18" TO NEAREST PART OF JOINT, VALVE, CLAMP, COUPLING, EXISTING TAP, OR ANY OTHER INTERRUPTION IN CLEAN, STRAIGHT, SMOOTH, CONTINUOUS PIPELINE.
- 7. TAP HOLE SHALL BE FREE OF WATER AND MUD.
- 8. PIPELINE MUST BE CLEAN ENOUGH TO REPAIR OR REWRAP ANY DAMAGE TO POLYWRAP.
- 9. THE EXCAVATION MUST COMPLY WITH ALL APPLICABLE OSHA REGULATIONS

	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
DETAIL NO. 3 4 OF 17	CITY OF KIRKWOOD WATER DEPT. SERVICE CONNECTION DETAIL 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CHECKED: CMT DRAWN: CMT SCALE: NONE		NO. DATE:	REMARKS VISION DESCRIPTIONS

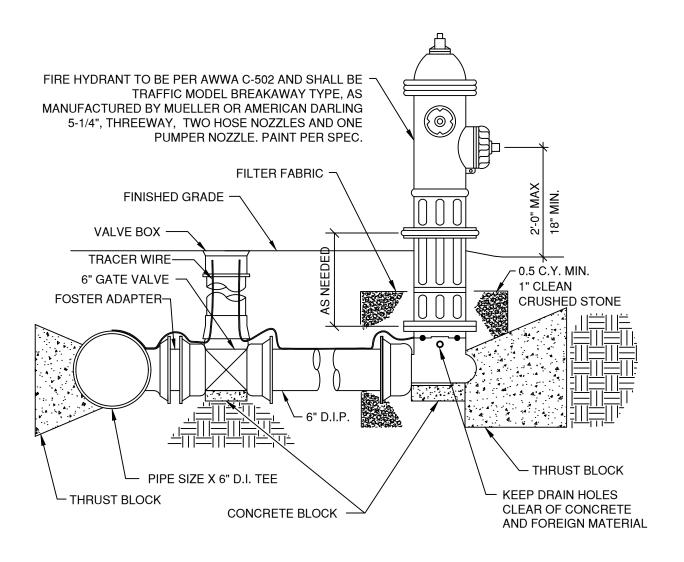






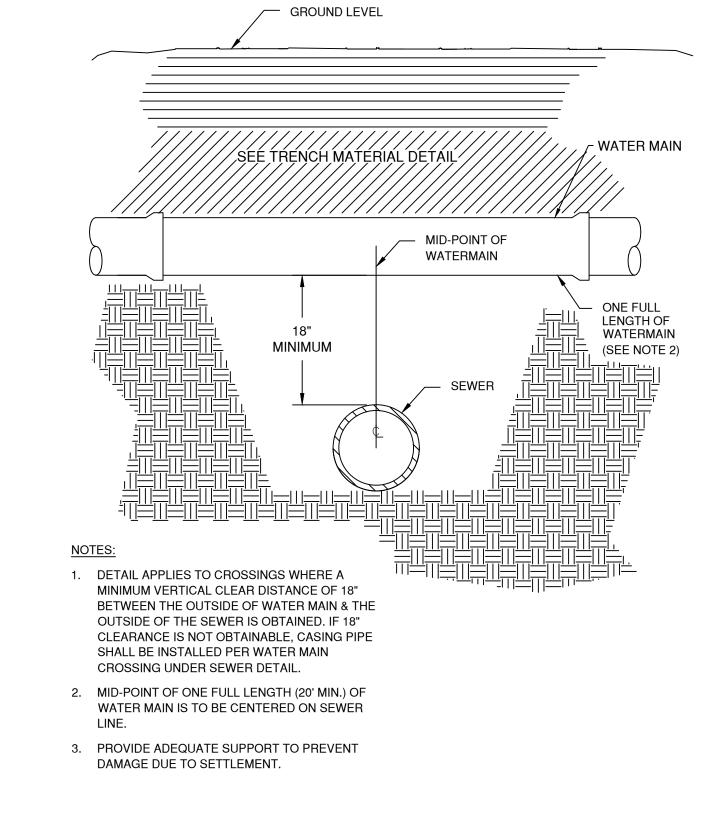
1. VALVE BOXES TO BE SLIP-TYPE. THREADED TOPS AND BOTTOMS ARE NOT PERMITTED.

	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
DETAIL NO.	CITY OF KIRKWOOD WATER DEPT. BURIED VALVE INSTALLATION	CHECKED: CMT DRAWN:			
7 OF 17	139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CMT SCALE: NONE	EST. 1855	NO. DATE:	REMARKS EVISION DESCRIPTIONS



- 1. CONCRETE THRUST BLOCKS SHALL BE INSTALLED IN ADDITION TO THE INSTALLATION OF EBAA IRON MEGALUG JOINT RESTRAINTS.
- 2. INCLUDE PIPE SIZE X 6" M.J. TEE WITH FIRE HYDRANT PAY ITEM.

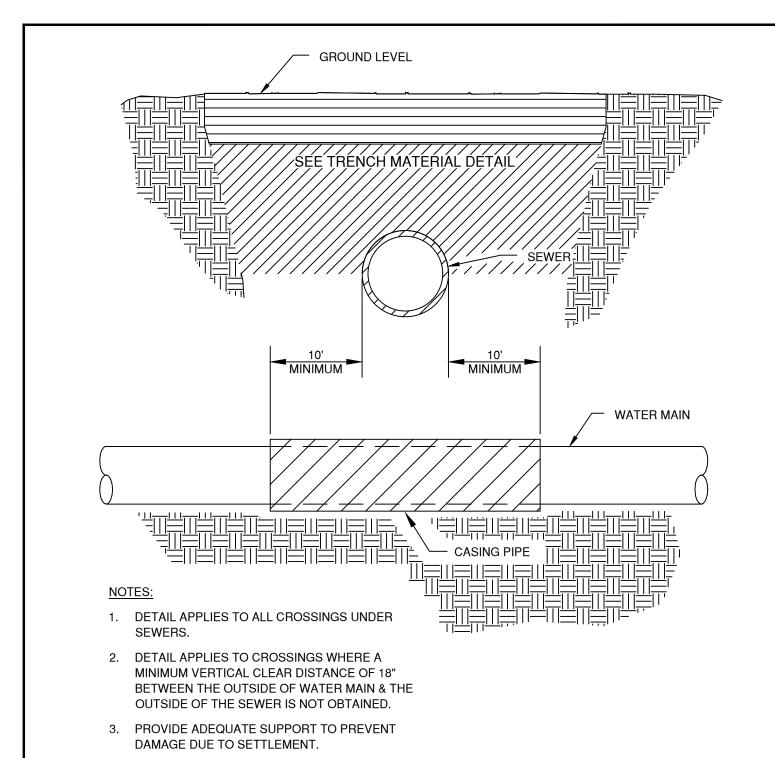
	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa	Н			
DETAIL NO.	CITY OF KIRKWOOD WATER DEPT. FIRE HYDRANT ASSEMBLY 139 S. KIRKWOOD ROAD	CHECKED: CMT DRAWN: CMT	970 970 1	NO.	DATE:	REMARKS	
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STANDARD DRAWINGS

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OCTOBER 2021
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139 S. KIRKWOOD, MISSOURI 63122

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OCTOBER 2021



4. SEE PIPE CASING DETAIL FOR ADDITIONAL REQUIREMENTS.

STANDARD DRAWINGS

DETAIL NO.

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139 S. KIRKWOOD ROAD
KIRKWOOD, MISSOURI 63122

DATE:
OCTOBER 2021

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NONE

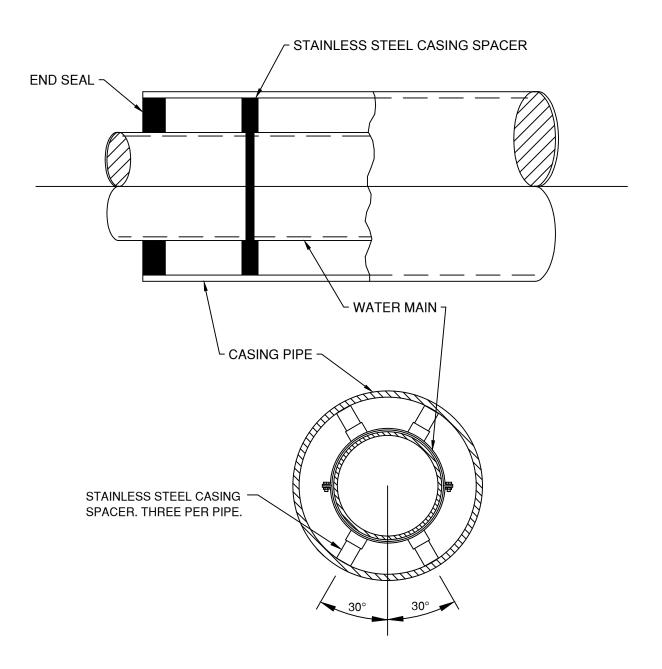
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DATE:
OCTOBER 2021

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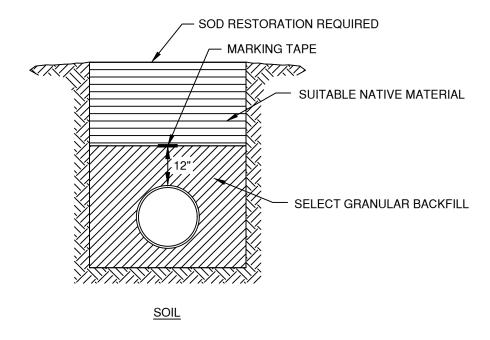
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ISSUE / REVISION DESCRIPTIONS



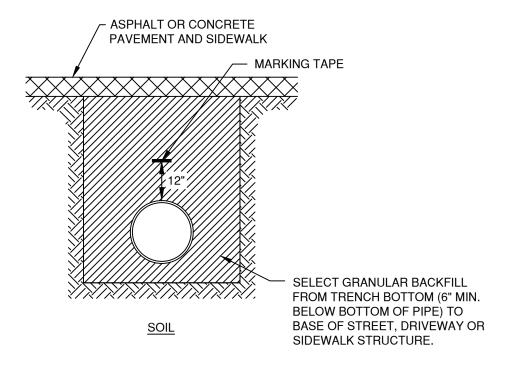
- 1. SEE SPECIFICATIONS FOR CASING PIPE, CASING END SEALS, AND CASING SPACERS REQUIREMENTS.
- 2. THE WATER MAIN SHALL BE "CENTERED SPACED" AND RESTRAINED ON TOP AND BOTTOM ULTILIZING THREE CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.

	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
10 11 OF 17	CITY OF KIRKWOOD WATER DEPT. PIPE CASING DETAIL 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CHECKED: CMT DRAWN: CMT SCALE: NONE		NO. DATE:	REMARKS EVISION DESCRIPTIONS



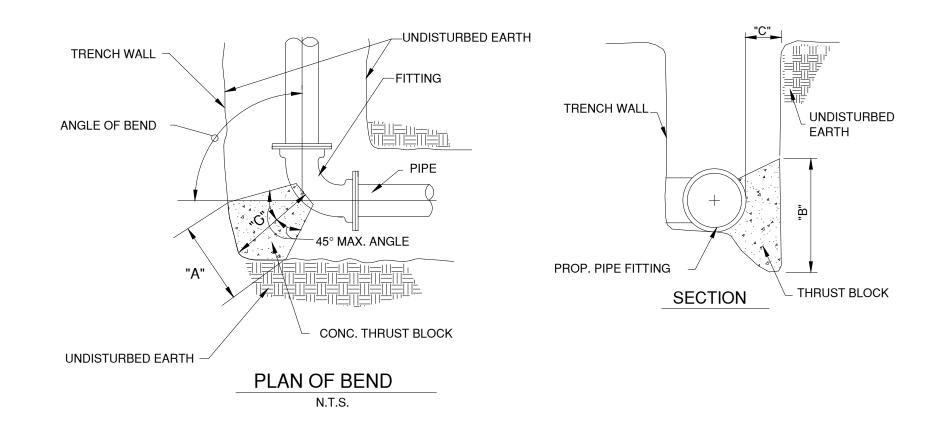
- 1. SEE SPEC SECTION 02222 AND 15065 FOR BACKFILL REQUIREMENTS.
- 2. COST OF BACKFILL AND LAWN RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT.
- 3. TRACER WIRE TO BE NO. 12 AWG AS MANUFACTURED BY COPPERHEAD INDUSTRIES. FOR ADDITIONAL MATERIAL INFORMATION SEE SPECIFICATIONS AND INSTALLATION DETAILS.
- 4. SEE SPECIFICATIONS FOR MARKING TAPE INFORMATION.

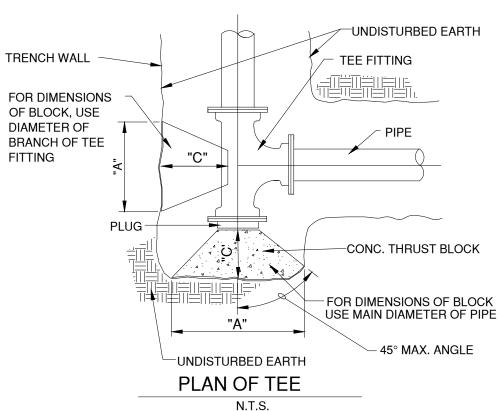
	STANDARD DRAWINGS	DATE: OCTOBER 2021	KWO		
DETAIL NO.	CITY OF KIRKWOOD WATER DEPT. TRENCH MATERIAL UNDER LAWN 139 S. KIRKWOOD ROAD	CHECKED: CMT DRAWN: CMT		NO. DATE: REMAR	RKS
12 OF 17	KIRKWOOD, MISSOURI 63122	SCALE: NONE	7. 1852	ISSUE / REVISION	DESCRIPTIONS



- 1. COST OF BACKFILL AND PAVEMENT OR SIDEWALK RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT.
- 2. TRACER WIRE TO BE NO. 12 AWG AS MANUFACTURED BY COPPERHEAD INDUSTRIES. FOR ADDITIONAL MATERIAL INFORMATION SEE SPECIFICATIONS AND INSTALLATION DETAILS.
- 3. SEE SPECIFICATIONS FOR MARKING TAPE INFORMATION.
- 4. SEE CITY OF KIRKWOOD STANDARD DETAILS FOR PAVEMENT RESTORATION.

	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa	Н		
12	CITY OF KIRKWOOD WATER DEPT. TRENCH MATERIAL UNDER PAVEMENT 139 S. KIRKWOOD ROAD	CHECKED: CMT DRAWN: CMT		NO.	DATE:	. REMARKS
13 OF 17	KIRKWOOD, MISSOURI 63122	SCALE: NONE	ST - 1852	ISS	SUE / RE'	VISION DESCRIPTIONS





HORIZONTAL THRUST RESTRAINT

CIZE	9	0° BENI)	4	15° BENI)	22-	-1/2° BEI	ND	11-	-1/4° BEI	ND	TE	TEE OR PLUG		
SIZE	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С	
2"	8"	8"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	8"	8"	6"	
3"	1'-0"	1'-0"	8"	8"	8"	6"	8"	8"	6"	6"	6"	6"	1'-6"	1'-0"	8"	
4"& 6"	2'-0"	1'-4"	9"	1'-6"	1'-0"	6"	1'-1"	0'-8"	6"	0'-9"	0'-6"	6"	2'-5"	1'-7"	1'-0"	
8"	2'-8"	1'-10"	1'-0"	2'-0"	1'-4"	8"	1'-5"	1'-0"	8"	1'-0"	0'-8"	8"	3'-2"	2'-2"	1'-3"	
10"	3'-4"	2'-3"	1'-3"	2'-6"	1'-8"	10"	1'-9"	1'-2"	8"	1'-3"	0'-10"	8"	4'-0"	2'-8"	1'-7"	
12"	4'-0"	2'-8"	1'-6"	3'-0"	2'-0"	1'-0"	2'-2"	1'-5"	8"	1'-6"	1'-0"	8"	4'-10"	3'-2"	1'-11"	
14"	4'-8"	3'-2"	1'-9"	3'-6"	2'-4"	1'-2"	2'-6"	1'-8"	8"	1'-9"	1'-2"	8"	5'-7"	3'-9"	2'-3"	
16"	5'-4"	3'-7"	2'-0"	3'-11"	2'-8"	1'-4"	2'-10"	1'-11"	9"	2'-0"	1'-4"	8"	6'-4"	4'-3"	2'-6"	
18"	6'-0"	4'-0"	2'-3"	4'-5"	3'-0"	1'-6"	3'-2"	2'-2"	10"	2'-3"	1'-6"	8"	7'-2"	4'-9"	2'-10"	
20"	6'-8"	4'-5"	2'-6"	4'-11"	3'-4"	1'-8"	3'-6"	2'-4"	11"	2'-6"	1'-8"	8"	7'-11"	5'-4"	3'-2"	
24"	8'-0"	5'-4"	3'-0"	5'-11"	3'-11"	2'-0"	4'-3"	2'-10"	1'-1"	3'-0"	2'-0"	8"	9'-6"	6'-4"	3'-9"	

STANDARD DRAWINGS DETAIL NO. 13 CITY OF KIRKWOOD WATER DEPT. THRUST BLOCK DETAILS - HORIZONTAL 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122 DATE: OCTOBER 202 CHT CHECKED: CMT DRAWN: CMT SCALE:



NO.	DATE:	REMARKS						
ISSUE / REVISION DESCRIPTIONS								

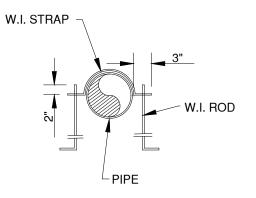
- 1. IN ADDITION TO MEGALUGS, ALL BENDS, TEES, PLUGS, FITTINGS OR OTHER SIGNIFICANT CHANGES IN ALIGNMENT SHALL BE BRACED WITH CAST-IN-PLACE CONCRETE THRUST BLOCKS. CONCRETE SHALL ACHIEVE 3,000 P.S.I. COMPRESSIVE STRENGTH @ 28 DAYS. FITTINGS WITH RETAINING GLANDS WILL NOT BE ALLOWED.
- 2. "C" DIMENSION SHALL BE AS REQUIRED TO REACH UNDISTURBED EARTH BUT NOT LESS THAN VALUE LISTED IN TABLE.
- 3. DIMENSIONS "A" AND "B" ARE BASED ON INTERNAL PIPE PRESSURE OF 100 P.S.I. AND BEARING ON THE UNDISTURBED SOIL OF 1500 P.S.F.
- 4. "B"= HEIGHT OF THRUST BLOCK
- 5. ALL FITTINGS RECEIVING CONCRETE THRUST BLOCKS SHALL BE SEPARATED FROM THE CONCRETE THRUST BLOCK BY A 5 MIL LAYER OF PLASTIC SHEETING.
- 6. IF RESTRAINED JOINTS ARE UTILIZED, THE CONTRACTOR SHALL SUBMIT CALCULATIONS FOR THE LENGTH OF PIPE TO BE RESTRAINED TO THE ENGINEER FOR APPROVAL. RESTRAINED JOINTS SHALL UTILIZE EBAA IRON SERIES 1900 BELL RESTRAINING HARNESS FOR PVC PIPE AND SERIES 1700 BELL RESTRAINING HARNESS FOR DUCTILE IRON PIPE.
- 7. FOR 2 PIPES IN A COMMON TRENCH, CONCRETE THRUST BLOCKS ARE NOT ALLOWED. PIPES SHALL BE RESTRAINED UTILIZING EBAA IRON SERIES 1900 BELL RESTRAINING HARNESS FOR PVC PIPE AND SERIES 1700 BELL RESTRAINING HARNESS FOR DUCTILE IRON PIPE.

VERTICAL THRUST RESTRAINT-UPWARD BEND

DEN						SIZE				
BEN	ט	6"	8"	10"	12"	14"/16"	18"/20"	24"	30"	36"
1/4°	G	6"	8"	10"	1'-0"	1'-4"	1'-8"	2'-0"	2'-6"	3'-0"
1 +	Н	1'-2"	1'-4"	1'-6"	1'-8"	2'-0"	2'-4"	2'-8"	3'-2"	3'-10"
=	J	7"	7"	8"	8"	9"	10"	1'-0"	1'-1"	1'-2"
°.	G	9"	1'-0"	1'-6"	1'-4"	2'-3'	3'-0"	3'-6"	4'-2"	5'-4"
1/2°	Н	1'-2"	1'-4"	1'-6"	1'-8"	2'-0"	2'-4"	2'-8"	3'-2"	4'-0"
22	J	8"	9"	10"	11"	1'-2"	1'-4"	1'-6"	1'-9"	2'-0"
0	G	1'-3"	1'-8"	2'-1"	2'-6"	3'-4"	4'-2"	5'-0"	6'-3"	7'-6"
45°	Н	1'-2"	1'-4"	1'-6"	1'-10"	2'-6"	3'-0"	3'-4"	4'-0"	5'-0"
	J	8"	9"	10"	11"	1'-2"	1'-4"	1'-9"	2'-3"	2'-8"

VERTICAL DOWNWARD BEND NOTES:

- 1. ALL CAST-IN-PLACE CONCRETE SHALL BE PLACED BEARING AGAINST UNDISTURBED EARTH. THRUST BLOCK DIMENSIONS SHALL BE AS REQUIRED TO BEAR AGAINST UNDISTURBED EARTH BUT NOT LESS THAN LISTED IN THRUST BLOCK TABLE.
- 2. ALL CAST-IN-PLACE CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS.
- 3. ALL STRAPS TO BE 3"W X 1/2" WROUGHT IRON. APPLY TWO COATS OF APPROVED BITUMINOUS PAINT TO EXPOSED STRAP.
- 4. ALL RODS TO BE WROUGHT IRON AS SHOWN ON TABLE, THREADED ONE END AND BENT THE OTHER. APPLY TWO COATS OF APPROVED BITUMINOUS PAINT TO EXPOSED AREAS.



STRAP & ROD DETAIL

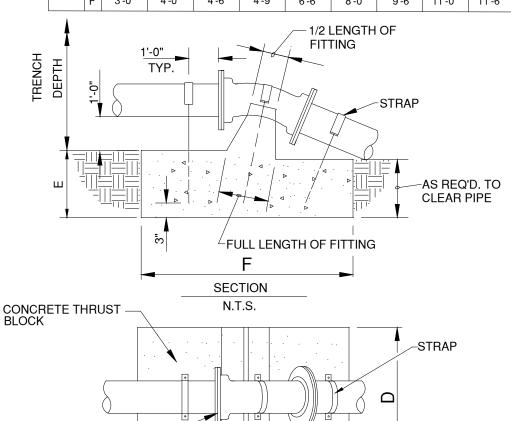
N.T.S.

ROD SCHEDULE

PIPE	ROI	NO.			
SIZE	11 1/4°	22 1/2°	45°	REQ'D.	
6"	3/4"	3/4"	3/4"	6	
8"	3/4"	3/4"	3/4"	6	
10"	3/4"	3/4"	3/4"	6	
12"	3/4"	3/4"	3/4"	6	
14"/16"	3/4"	3/4"	3/4"	6	
18"/20"	3/4"	3/4"	3/4"	8	
24"	3/4"	3/4"	3/4"	10	
30"	3/4"	3/4"	7/8"	10	
36"	3/4"	7/8"	7/8"	12	

VERTICAL THRUST RESTRAINT-DOWNWARD BEND

BEND		SIZE								
		6"	8"	10"	12"	14"/16"	18"/20"	24"	30"	36"
9	D	1'-6'	1'-9"	2'-0"	3'-0"	3'-6"	4'-0"	4'-3"	4'-6"	5'-0"
1/4°	Е	1'-3"	1'-6"	1'-9"	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	4'-0"
=	F	2'-0"	2'-6"	2'-9"	3'-0"	4'-0"	5'-0"	5'-9"	6'-6"	7'-0"
<u> </u>	D	2'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	6'-0"
1/2°	Е	1'-9"	2'-3"	2'-6"	2'-6"	2'-6"	2'-8"	3'-8"	4'-6"	5'-6"
22	F	2'-6"	2'-8"	3'-10"	4'-0"	5'-6"	7'-6"	8'-6"	8'-6"	10'-0"
45°	D	2'-6"	3'-0"	4'-0"	4'-6"	5'-2"	5'-6"	6'-0"	6'-6"	7'-6"
	E	2'-6"	2'-9"	3'-0"	3'-6"	4'-0"	4'-6"	5'-6"	6'-0"	6'-0"
	F	3'-0"	4'-0"	4'-6"	4'-9"	6'-6"	8'-0"	9'-6"	11'-0"	11'-6"



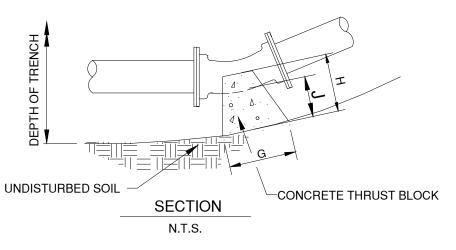
THRUST BLOCK DETAIL
FOR VERTICAL ALIGNMENT
DOWNWARD BEND

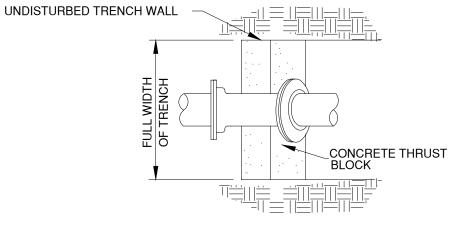
PLAN

N.T.S.

VERTICAL UPWARD BEND NOTES:

- 1. ALL H & J DIMENSIONS TO BE AS REQUIRED TO BEAR AGAINST UNDISTURBED EARTH BUT NOT LESS THAN LISTED IN THRUST BLOCK TABLE.
- 2. ALL CAST-IN-PLACE CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS.
- 3. ALL CAST-IN-PLACE CONCRETE SHALL BE PLACED THE FULL WIDTH OF TRENCH FROM UNDISTURBED WALL TO UNDISTURBED WALL.
- 4. IF RESTRAINED JOINTS ARE UTILIZED, THE CONTRACTOR SHALL SUBMIT CALCULATIONS FOR THE LENGTH OF PIPE TO BE RESTRAINED TO THE ENGINEER FOR APPROVAL. RESTRAINED JOINTS SHALL UTILIZE EBAA IRON SERIES 1900 BELL RESTRAINING HARNESS FOR PVC PIPE AND SERIES 1700 BELL RESTRAINING HARNESS FOR DUCTILE IRON PIPE.





PLAN N.T.S.

THRUST BLOCK DETAIL
FOR VERTICAL ALIGNMENT
UPWARD BEND

STANDARD DRAWINGS		
CITY OF KIRKWOOD WATER DEPT.	CHECKED: CMT	
THRUST BLOCK DETAILS - VERTICAL	DRAWN:	

THRUST BLOCK DETAILS - VERTICAL 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122

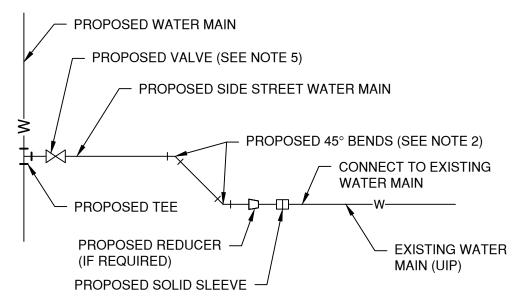
DETAIL NO.



NO.	DATE:	REMARKS
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FITTING

- 1. FITTINGS, VALVES & LINE SIZES TO BE PER SPECIFIC CONNECTION DETAILS.
- 2. A MINIMUM OF 2 45° BENDS ARE REQUIRED TO ALLOW FOR VERTICAL & HORIZONTAL ALIGNMENT ADJUSTMENTS.
- 3. PROPOSED SIDE STREET WATER MAIN TO BE PVC C909 DR18 WITH TRACER WIRE AND MARKING TAPE.
- 4. STATIONING LOCATIONS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO DETERMINE EXACT LOCATION OF TEES & CROSSES BASED ON FIELD CONDITIONS.
- 5. WHERE "EZ VALVE" IS SPECIFIED ON THE PLANS, VALVE SHALL BE INSTALLED ON EXISTING WATER MAIN AFTER SOLID SLEEVE.



	STANDARD DRAWINGS	DATE: OCTOBER 2021	akwa		
DETAIL NO.	CITY OF KIRKWOOD WATER DEPT. TYPICAL CONNECTION AT WATER MAIN BRANCH	CHECKED: CMT DRAWN:			
13 16 OF 17	139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122	CMT SCALE: NONE	FST - 1853	NO. DATE:	REMARKS EVISION DESCRIPTIONS

ADA RAMP CONSTRUCTION

THE CONTRACTOR SHALL CONSTRUCT WHEELCHAIR RAMPS AT ALL STREET INTERSECTIONS AND AT LOCATIONS DESIGNATED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS:

- 1. RAMP SLOPE THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP SHALL BE 1:12.
- 2. CROSS SLOPE THE CROSS SLOPE OF A RAMP SHALL BE 1.5 PERCENT WITH A MINIMUM SLOPE OF 1 PERCENT AND MAXIMUM SLOPE OF 2 PERCENT.
- 3. RAMP WIDTH RAMPS ARE TO BE CONSTRUCTED WITH A CLEAR WIDTH OF 48 INCHES INCLUSIVE OF FLARES OR CURBING.
- 4. RAMP TO GUTTER TRANSITION TRANSITIONS FROM RAMPS TO WALK, GUTTER, OR STREET SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- 5. DETECTABLE WARNING SURFACE SHALL BE CONSTRUCTED AS OUTLINED IN 28 CFR PART 36 SECTION 4.29.2. A PRE-MANUFACTURED DETECTABLE WARNING SURFACE SHALL BE USED THAT IS MANUFACTURED BY ARMOR TILE. AN EQUIVALENT MAY BE USED IF APPROVED BY THE CITY ENGINEER IN ADVANCE OF THE PROJECT. THE PRE-MANUFACTURED DETECTABLE WARNING SURFACE SHALL BE "SAFETY YELLOW" IN COLOR. NO OTHER COLORS WILL BE ACCEPTED.
- RAMP THICKNESS ANY PART OF THE RAMP WITHIN SIX FEET OF A DRIVING SURFACE SHALL BE SEVEN INCHES THICK ON 4 INCHES OF A 1" MINUS ROCK BASE.

ALL SIDEWALKS AND HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.D.A. REQUIREMENTS. ANY SIDEWALKS OR HANDICAP RAMPS CONSTRUCTED BY THE CONTRACTOR NOT MEETING A.D.A. REQUIREMENTS WILL BE REMOVED AND RE-CONSTRUCTED TO MEET THOSE REQUIREMENTS AT THE SOLE EXPENSE OF THE CONTRACTOR.

STANDARD DRAWINGS

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17 OF 17

CITY OF KIRKWOOD WATER DEPT.

ADA RAMP CONSTRUCTION 139 S. KIRKWOOD ROAD KIRKWOOD, MISSOURI 63122 DATE:
OCTOBER 2021
CHECKED:
CMT
DRAWN:
CMT
SCALE:



NO.	DATE:	REMARKS
ISS	SUE / REV	/ISION DESCRIPTIONS