

# SVM D SANITARY AND WATER CONSTRUCTION PLANS FOR: COMPARK VILLAGE SOUTH

## COMPARK VILLAGE SOUTH, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

TRACT A, COMPARK VILLAGE SOUTH FILING NO. 1, AMENDMENT 1, LOCATED IN THE SOUTH HALF OF SECTION 6,  
TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

### STONEGATE VILLAGE METRO DISTRICT WATER AND SANITARY SEWER PLAN

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#### LEGEND

PROPOSED	EXISTING	
CATV	CATV	CABLE TV LINE W/ PEDESTAL
E	EX E	ELECTRIC LINE W/ BOX, METER, AND LIGHT
OHE	EX OE	OVERHEAD ELECTRIC WITH POLE
OHE/C	EX OHE/C	OVERHEAD ELECTRIC COMMUNICATIONS
UE	EX UE	UNDERGROUND ELECTRIC
FO	EX FO	FIBER OPTIC LINE W/ TRAFFIC CONTROL BOX
F	EX F	FIRE
G	EX G	GAS LINE W/ DRY UTILITY VAULT
IRR	EX IRR	IRRIGATION
SS	EX SS	SANITARY SEWER W/ MANHOLE
	EX SD	STORM SEWER FES W/ MAHNOLE, RIPRAP
T	EX T	TELEPHONE LINE W/ PEDESTAL
OT	OHT	OVERHEAD TELEPHONE
W	EX W	WATER LINE, VALVE, FITTINGS, METER, AND HYDRANT
T	EX T	UNDERDRAIN
		CURB AND GUTTER
		WHEEL STOP
		CONTOURS
		TRASH ENCLOSURE
UD	UD	UNDERDRAIN W/ TYPE R INLET
X	X	FENCE LINE
		DRAINAGE SWALE
		RIGHT-OF-WAY
		SECTION LINE
		PROPERTY LINE
		LOT LINE
		EASEMENT
		IRRIGATION CONTROL VALVE BOX
		PEDESTRIAN LIGHT
		STREET LIGHT
		TRAFFIC LIGHT
		SPOT ELEVATION
		FLOW OF WATER
		SIGN

#### BASIS OF BEARINGS:

BEARINGS ARE ASSUMED AND ARE BASED UPON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 6, AS BEARING N87°48'59"E A DISTANCE OF 2634.08 FEET BETWEEN THE SOUTH QUARTER CORNER OF SAID SECTION 6, BEING A FOUND 3-1/4" ALUMINUM CAP, FLUSH WITH THE SURFACE AND STAMPED: PLS 38026 AND THE SOUTHEAST CORNER OF SAID SECTION 6, BEING A FOUND 3-1/4" ALUMINUM CAP, FLUSH WITH THE SURFACE AND STAMPED PLS 12405.

#### BASIS OF ELEVATION:

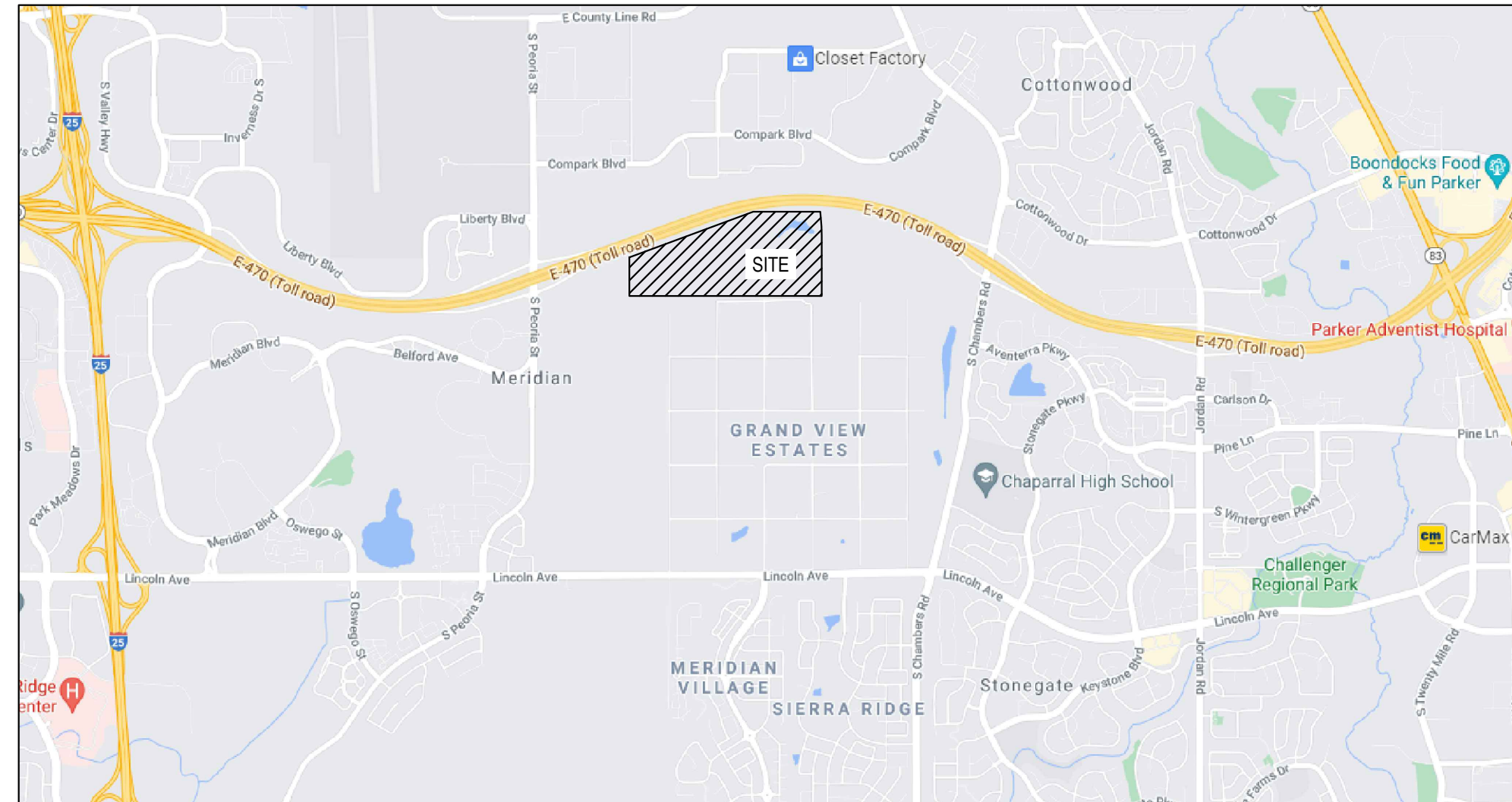
SOURCE BENCHMARK  
DOUGLAS COUNTY BM 1.115010  
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD.

#### SITE BENCHMARKS

- A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE.
- A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 19997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD.

#### LEGAL DESCRIPTION:

TRACT A OF COMPARK VILLAGE SOUTH FILING NO. 1, AMENDMENT NO 1, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO.



Vicinity Map

N.T.S.

#### ABBREVIATION LEGEND

TW	GRADE AT TOP OF WALL
BG	GRADE AT BOTTOM OF WALL
PC	POINT OF CURVE
PT	POINT OF TANGENT
Δ	DELTA, HORIZONTAL CURVE DIRECTION CHANGE
CL	CENTERLINE
FL	FLOWLINE
DBL	DOUBLE
C.O.	CLEAN OUT
K	RATE OF CURVATURE
AD	ABSOLUTE GRADE DIFFERENCE IN %
VC	VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE
PVT	POINT OF VERTICAL TANGENT
PVI	POINT OF VERTICAL INTERSECTION
PI	POINT OF TANGENT INTERSECTION
ROW	RIGHT OF WAY
PVMT	PAVEMENT
HP	HIGH POINT
LP	LOW POINT
PCR	POINT OF CURB RETURN
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
EX, EX	EXISTING
PR, PR	PROPOSED
ME	MATCH EXISTING
TC	BACK TOP OF CURB
FG	FINISHED GRADE
STA	STATION
EL, ELEV	ELEVATION
FF	FINISHED FLOOR
TC	TOP OF CONCRETE
B/P	BOTTOM OF PIPE
T/P	TOP OF PIPE
Ø	DIAMETER
UE	UTILITY EASEMENT
ESMT	EASEMENT
HCL	HORIZONTAL CONTROL LINE
N	NORTH/NORTHING
E	EAST/EASTING
W	WEST
S	SOUTH
R	RADIUS
LC	LENGTH OF CORD
L	LENGTH
CB	CHORD BEARING

**DEVELOPER/ OWNER**  
CENTURY COMMUNITIES  
8390 E. CRESCENT PARKWAY,  
SUITE 650, GREENWOOD VILLAGE,  
CO 80111  
PHONE: 303-770-8300  
CONTACT: CINDY MYERS

**SURVEYOR**  
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GREENWOOD VILLAGE, CO 80111  
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CONTACT: KENNETH G. OUELLETTE, PLS

**PLANNER**  
PCS GROUP  
200 KLAMATH ST, DENVER, CO  
80223  
PHONE: 720-259-8248  
CONTACT: PAUL SHOUKAS

**ENGINEER**  
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5970 GREENWOOD PLAZA BLVD.  
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PHONE: 303-751-0741  
CONTACT: KRISTOFER K. WIEST, PE

#### TOWN & UTILITY CONTACTS

TOWN OF PARKER  
CONTACT: MIKE WAUGH  
PHONE: 303-840-9546

INTERMOUNTAIN REA  
CONTACT: BROOKS KAUFMAN  
PHONE: 303-688-3100

CENTURY LINK  
CONTACT: WILLIAM BENSON  
PHONE: 303-320-8333

SOUTH METRO FIRE DISTRICT  
CONTACT: MICHELLE HERIAN  
PHONE: 720-488-7200

COMCAST  
CONTACT: KEVIN YOUNG  
PHONE: 720-490-3867

XCEL ENERGY  
CONTACT: MICHELLE O'NAN  
PHONE: 303-329-1618

STONEGATE VILLAGE METRO DISTRICT  
CONTACT: SCOTT BARNETT  
PHONE: 303-858-9909

Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
00	COVER SHEET	C7.0
01	GENERAL NOTES	C7.1
03	OVERALL UTILITY PLAN	C7.2
04	WATER-P&P	C7.3
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09	WATER DETAILS	C7.9
10	WATER DETAILS	C7.10
11	WATER DETAILS	C7.11

WATER MAIN QUANTITIES		
DESCRIPTION	AMOUNT	UNIT
8" PVC WATER MAIN	683.96	LF
8" TO 6" TEE/W/ KICK BLOCK	33	EACH
8" 11.25 DEGREE BEND	1	EACH
8" 22.5 DEGREE BEND	1	EACH
VERTICAL BEND	2	EACH
FIRE HYDRANT ASSEMBLY	1	EACH
REMOVE EXISTING 8" PLUG AND MAKE DRY CONNECT	2	EACH
SANITARY SEWER MAIN QUANTITIES		
DESCRIPTION	AMOUNT	UNIT
8" SANITARY SEWER MAIN (0-16" DEPTH)	603.6	LF
4' DIAMETER MANHOLES (0-20' DEPTH)	2	EACH
CONNECTION TO EXISTING SANITARY SEWER	1	EACH

#### FIRE/LIFE SAFETY REVIEW BLOCK

All fire hydrants shall be installed according to water utility standards. The number and locations of the fire hydrants as shown on the Overall Utility Plan are correct as specified by the Town of Parker, Community Development Department.

Fire Code Official or Designated Representative

(NOTE – Underground Fire Line (UFL) submittal documents must meet the requirements of NFPA 24 when submitting for review.)

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

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Town of Parker, Director of Engineering/Public Works

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**DISTRICT ACCEPTANCE NOTE:**

- Upon completion of sanitary sewer and water construction and testing, the Developer or Contractor shall contact the District for probationary acceptance inspection. A punchlist will be provided the Developer and Contractor upon completion of the initial walk-through and Probationary Acceptance will be issued following completion and acceptance of the work outlined in the punchlist.
- The Contractor will be held responsible for the proper functioning of the lines for up to 1-year from the date of probationary acceptance of the lines by the District. Any malfunction during this period of guarantee shall be remedied by the Contractor to the satisfaction of the District Engineer at no expense to the District.
- The date of final acceptance will be indicated in the conditions of the Probationary Acceptance Letter. The Developer shall be responsible for contacting the District for final inspection and final acceptance.

**SANITARY SEWER:**

- All sanitary sewer construction shall conform to the Stonegate Village Metropolitan District Standards and Specifications.
- All sewer mains shall be PVC, ASTM D-3034, SDR 35 or approved equal. All sewer main size is 8-inch in diameter unless otherwise noted.
- Sewer lines shall be installed 5-feet south or west of street centerline, unless otherwise shown on plans. Sewer lines shall be 10-feet from water lines except when crossing each other. Sewer lines which cross less than 1-1/2-feet vertically from the water main shall be encased in concrete as per Stonegate Village Metropolitan District Standards and Specifications. Use rubber gaskets for PVC encasement.
- Sewer rim elevations shown are appropriate only and are not to be taken as final elevations. Ring and cover shall be set in centered concrete rings with Ram-neck for adjustment to match final pavement elevations.
- The Contractor and survey crew shall verify elevations of existing sewer lines and manholes to be tied to prior to construction or staking of sanitary sewer.
- Where Specified Gravel and/or tile underdrains shall be installed in all sewer main trenches as shown on the sanitary sewer plan and profile sheets. Underdrains shall be PVC – ASTM 3034, SDR 35 installed without gaskets. Stonegate Village Metropolitan District is not responsible for maintenance of underdrains. Size of underdrain services shall be 3-inch.
- Sewer wyes shall be used rather than tees. Sewer service wyes for each unit shall be staked by a survey crew, and furnished and installed by the Contractor. The Contractor shall furnish to the Engineer "as built" location of wyes.
- All manholes shall be 48-inches in diameter with 24-inch ring and cover, eccentric cone, unless otherwise specified.
- Pipe bedding shall be either Squeegee or Class "B" and shall conform to ASTM C-33 or D-448 gradation No. 6 or No. 67 when the pipe cover is 8 feet or less. When Pipe cover is greater than 8 feet, pipe bedding shall be 3/4 inch angular rock or other approved equal.
- At least 5-days prior to the start of construction, a pre-construction meeting will be held at the office of the District Engineer and attended by the Contractor and representatives of the other approving agencies. It will be the responsibility of the Contractor to contact the District Engineer to schedule this meeting.
- All pipe lengths are approximate.
- The Contractor shall have in his/her possession at all times one signed copy of the plans which have been approved by the Stonegate Village Metropolitan District and the District Engineer.
- All manholes shall have shaped inverts.

**GENERAL NOTES:**

- All construction shall comply with Stonegate Village Metropolitan District Specifications.
- The Contractor shall contact all appropriate utility companies, the Town of Parker, Douglas County, and the District Engineer prior to the beginning of any construction. Contractor shall be responsible for locating any existing utility (including depths) which may conflict with the proposed construction. All existing utilities shall be protected from damage by the Contractor. Damaged utilities shall be repaired by the Contractor at his/her own expense.  
  
All items shown on the plans as existing are shown in approximate locations only. The actual locations may vary from the plans, especially in the case of underground utilities. Whenever Contractor discovers a discrepancy in locations, he/she shall contact the Engineer immediately.
- The District Engineer and other approving agencies are to be notified at least 48-hours prior to construction.
- The Contractor shall obtain, at his/her expense, all permits which are necessary to perform the proposed work.
- All concrete shall be a minimum of Class A, 6 sock, Type II, 3,000-pound compression strength.
- The Design Engineer shall submit one set of rolled "As-Built" blue line prints and electronic files to the District Engineer for approval prior to printing mylar sepias for the District. After approval has been granted by the District Engineer, full size mylar sepia prints shall be transmitted to the Stonegate Village Metropolitan District office and an additional set of rolled blue line prints shall be transmitted to the District Engineer's office prior to probationary acceptance.
- All backfill material shall be compacted to 95% Standard Proctor density. Compaction tests must be submitted to District Engineer prior to probationary acceptance.
- Trenches shall be excavated and the pipe exposed for the inspection at any location on the project if so ordered by the inspector.
- The Contractor will be held responsible for the proper functioning of lines (water and sewer) for up to 1-year from the date of probationary acceptance of the lines by the District. Any malfunction during this period of guarantee shall be remedied by the Contractor to the satisfaction of the District Engineer at no expense to the District.
- Surface grades are to be within plus or minus 1-foot of finished grade and verification of compaction results obtained prior to the installation of water and sewer lines. Results must be submitted to the District Engineer.
- No work shall be backfilled until the construction has been inspected and approved for backfilling by the District Engineer or representative of the District Engineer.

**WATER MAIN:**

- All materials and workmanship shall be in conformance with the Stonegate Village Metropolitan District Engineering Standards and Specifications, latest revision. All work shall be inspected and approved by personnel of the Stonegate Village Metropolitan District and the District Engineer.
- All water mains shall be Class 50 ductile iron pipe (AWWA C-151-71) or PVC 6-inch through 12-inch C-900 DR14 PVC. All pipeline regardless of material shall have tracer wire and test stations. All joints and fittings shall be in accordance with the Stonegate Village Metropolitan District Standards and Specifications. Water mains 20-inch and larger shall be Class 51. Any variation of this standard shall be noted on the plans. All D.I. pipe fittings shall be polyethylene wrapped.
- All bends, plugs, reducers, and fire hydrants are to be rodded. All fittings shall be wrapped with 8-mil minimum thickness polyethylene material per AWWA Standard C-105.
- There shall be a minimum cover of 4-1/2-feet over all water mains.
- Fire hydrants shall conform to AWWA C-502 "dry barrel fire hydrants" pipe. Hydrant assemblies shall include all pipe, fittings, valves, materials, and labor necessary to install the hydrant complete in place. Acceptable models are Mueller Centurion Model 423 or Waterous Company Pacer WB-67 Model with bronze bused show and bronze shaft coupling, the 4-1/2-inch nozzle to have N.S.T. threads.
- All bends, tees, fire hydrants, blow-offs and plugs at dead-end mains shall be protected from thrust by using concrete thrust blocks.
- Chlorination and Flushing:** All water mains shall be installed and chlorinated per Stonegate Village Metropolitan District Standards and Specifications. The lines shall be chlorinated in accordance with AWWA C-601, "Disinfecting Water Mains." The preferred method is to use sufficient chlorine tablets to produce a 50-mg to 1 solution. These tablets should be adhered to the top of the pipe section with Permatex No.1 (Red). The chlorination of any finished pipeline shall be done prior to the hydrostatic testing. Sterilization and flushing of all mains shall be inspected copy of the certified by health department having jurisdiction. One copy of the certification shall state the location of the main, that the main has been inspected by a representation of the Health Department having jurisdiction, and was found to comply with the procedures set forth by that department.
- Hydrostatic Testing:** All water mains shall be tested per the requirements of the Stonegate Village Metropolitan District Standards and Specifications. All pipe shall be field pressure-tested to a minimum of 150 psi, or System Pressure plus 50 psi whichever is greater. All testing shall be done in the presence of a Stonegate Village Metropolitan District inspector. Leakage for each section of pipe between lines valves shall not exceed the limits set forth in the Stonegate Village Metropolitan District Standards and Specifications.
- Valves in streets are to be located at property line extensions except for tapping tees, where an additional valve shall be placed on the tapping tee. Other valve locations, such as where cross-pans exist, are shown on the plans.
- When necessary to lower or raise water lines at storm drains and other utility crossings, a minimum clearance of 1-1/2-feet shall be maintained between outside of pipes.
- The Contractor shall have in his/her possession at all times one signed copy of the plans which have been approved by the Stonegate Village Metropolitan District and the District Engineer.
- The Contractor shall notify the Stonegate Village Metropolitan District and the District Engineer at least 48-hours prior to any construction. If work is suspended for any period of time after initial start-up, the Contractor must notify the District Engineer 48-hours prior to re-start.
- Pipe bedding shall be a clean, well-graded sand or squeegee sand in accordance with Stonegate Village Metropolitan District Standards and Specifications, latest revision.
- The Contractor shall notify the public utility companies and determined the location of all existing underground utilities prior to proceeding with the excavation. All work performed in the area of the public utilities shall be performed according to the requirements of these agencies.
- Compaction of all trenches must be attained in accordance with the soils reports and compaction test results submitted to the District Engineer prior to probationary acceptance.
- Valve Boxes:** Tyler screw-type 6-inch cast-iron valve box assembly series 6860 with No. 1560 oval base. Clay and Bailey screw-type 6 inch cast-iron valve box assembly No. P-108 with No. 106 large oval base.
- All pipe lengths are approximate.
- At least 5-days prior to the start of construction, a pre-construction meeting will be held at the office of the District Engineer and attended by the Contractor and representative of other approving agencies. It will be the responsibility of the Contractor to contact the District Engineer.



REV	REVISION DESCRIPTION	DATE	CHNO/CHKD/APPR

**COMPARK VILLAGE SOUTH  
WATER AND SANITARY  
PLANS**  
GENERAL NOTES

ISSUED FOR REVIEW  
FOR AND ON BEHALF OF MERRICK & COMPANY

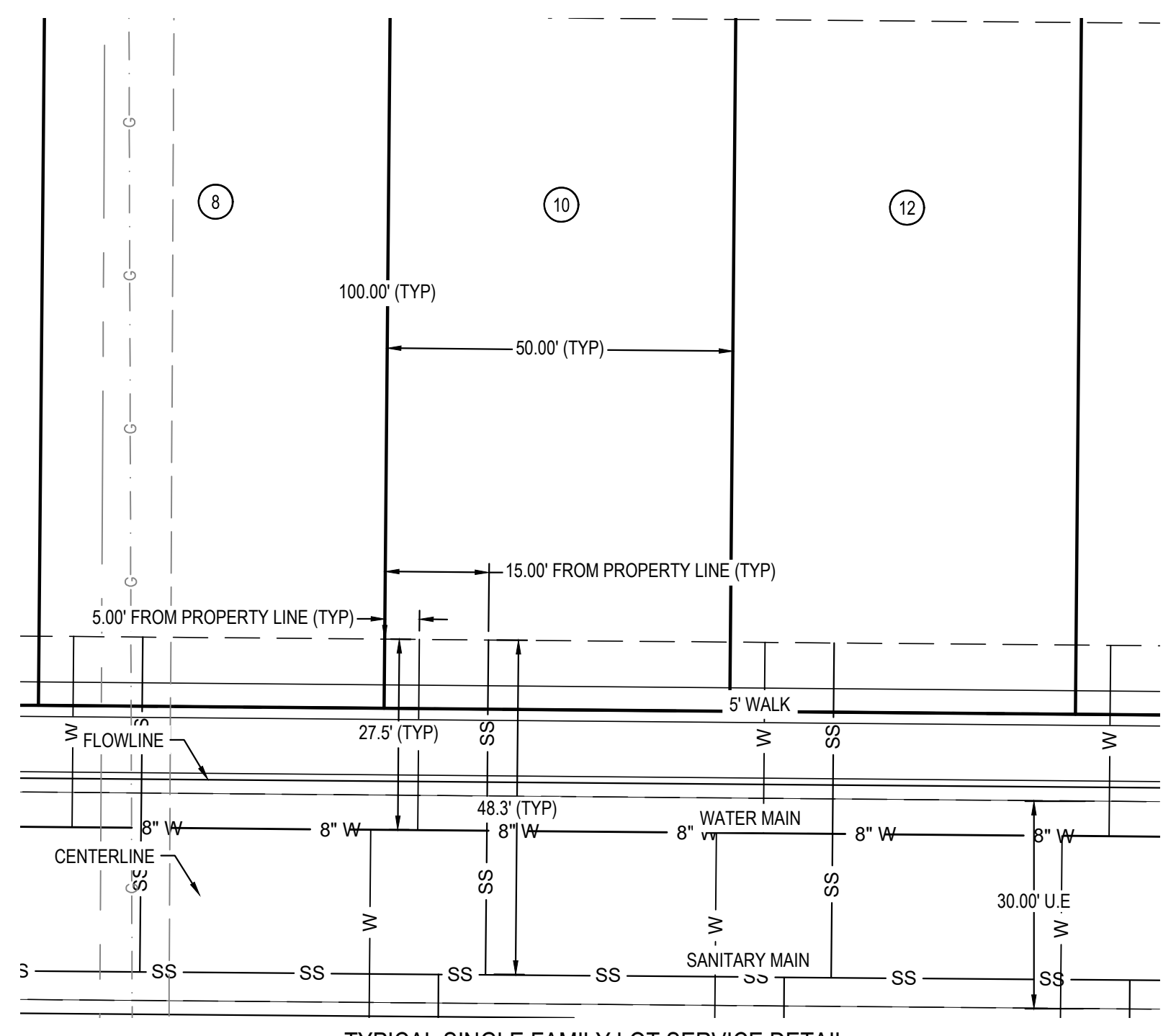
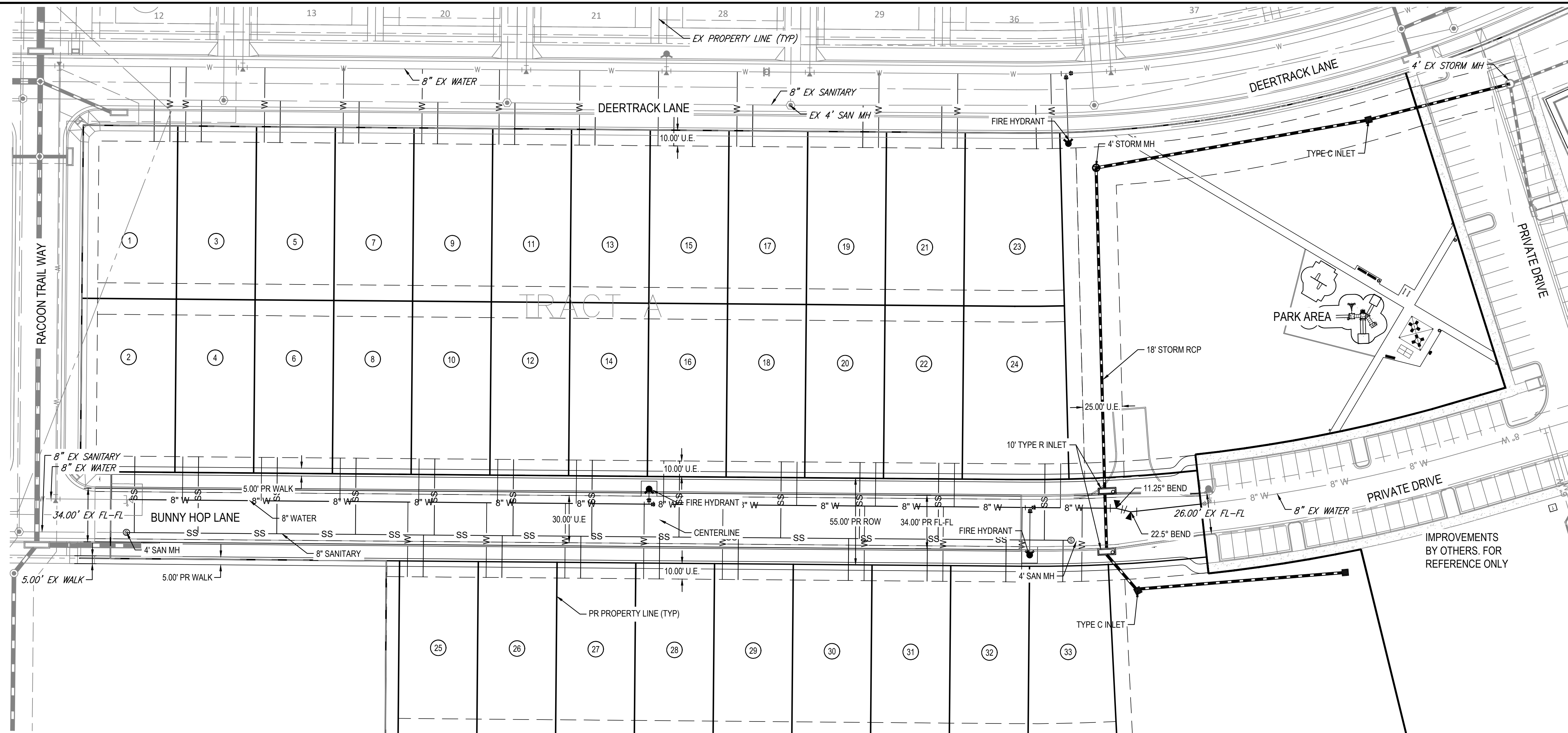
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Town of Parker, Director of Engineering/Public Works

JOB NUMBER	61120560
DATE	4/22/2022
SHEET	C7.1
	01

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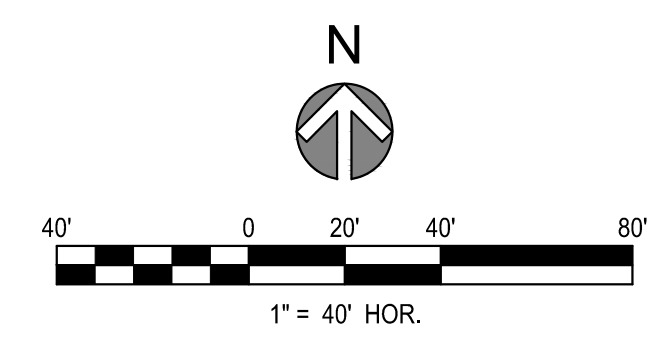


TYPICAL SINGLE FAMILY LOT SERVICE DETAIL

NOTES:  
1. SERVICE LOCATIONS ARE TYPICAL UNLESS OTHERWISE NOTED.

NOTES:  
CONTRACTOR TO FIELD VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES AND IRRIGATION.

IMPROVEMENTS BY OTHERS. FOR REFERENCE ONLY



**FIRE/LIFE SAFETY REVIEW BLOCK**

All fire hydrants shall be installed according to water utility standards. The number and locations of the fire hydrants as shown on the Overall Utility Plan are correct as specified by the Town of Parker, Community Development Department.

Date \_\_\_\_\_  
Fire Code Official or Designated Representative \_\_\_\_\_

(NOTE – Underground Fire Line (UFL) submittal documents must meet the requirements of NFPA 24 when submitting for review.)

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Town of Parker, Director of Engineering/Public Works \_\_\_\_\_ Date \_\_\_\_\_



REV	REVISION DESCRIPTION	DATE	CHKD	CHKD	APPR

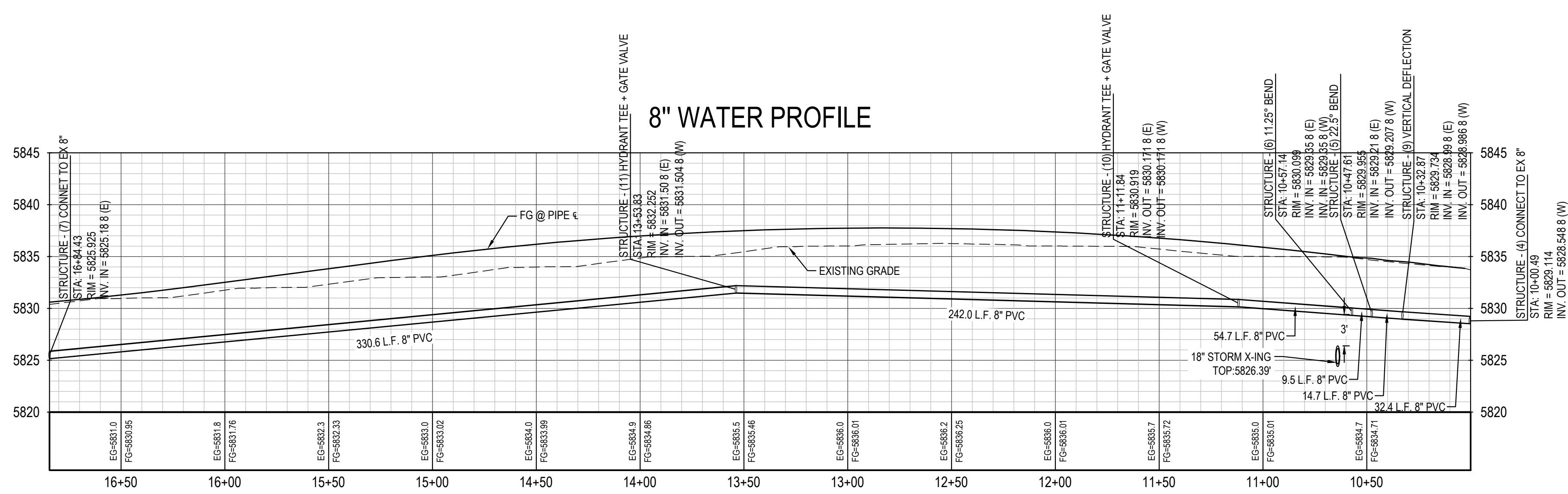
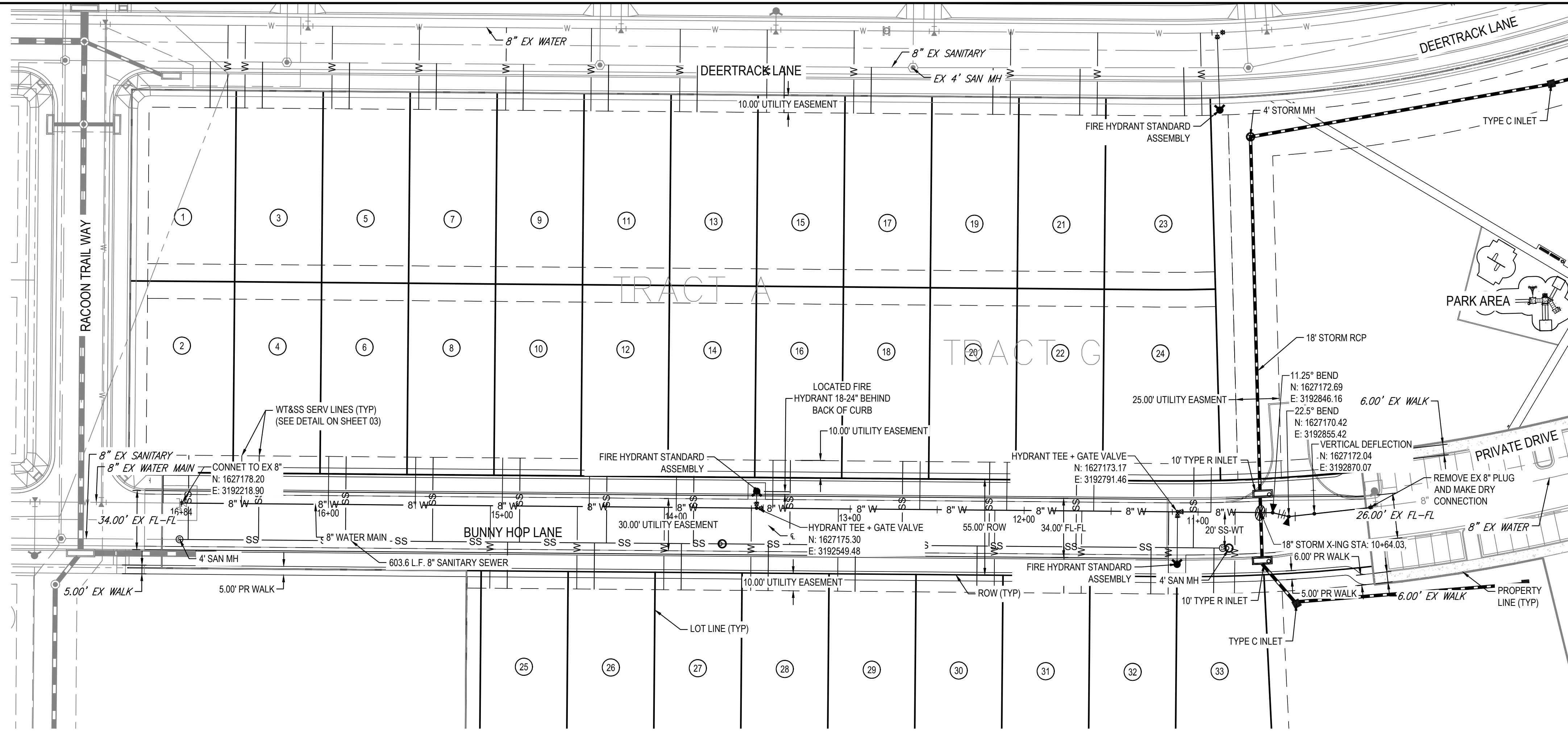
**COMPARK VILLAGE SOUTH  
PRIVATE IMPROVEMENT  
CONSTRUCTION PLANS  
OVERALL UTILITY PLAN**

ISSUED FOR REVIEW

JOB NUMBER: 65120350  
DATE: 2/25/2022  
SHEET: C72  
03



THE ABOVE PLAN, SPECIFICATIONS, AND INSTRUMENTS ARE AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, P.C. A REGISTERED PROFESSIONAL ENGINEER. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE IN WHOLE OR IN PART OR FOR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION NOT A PART OF THE INSTRUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK. THE USER ASSUMES ALL LIABILITY TO THE USER AND USER'S CLIENT.



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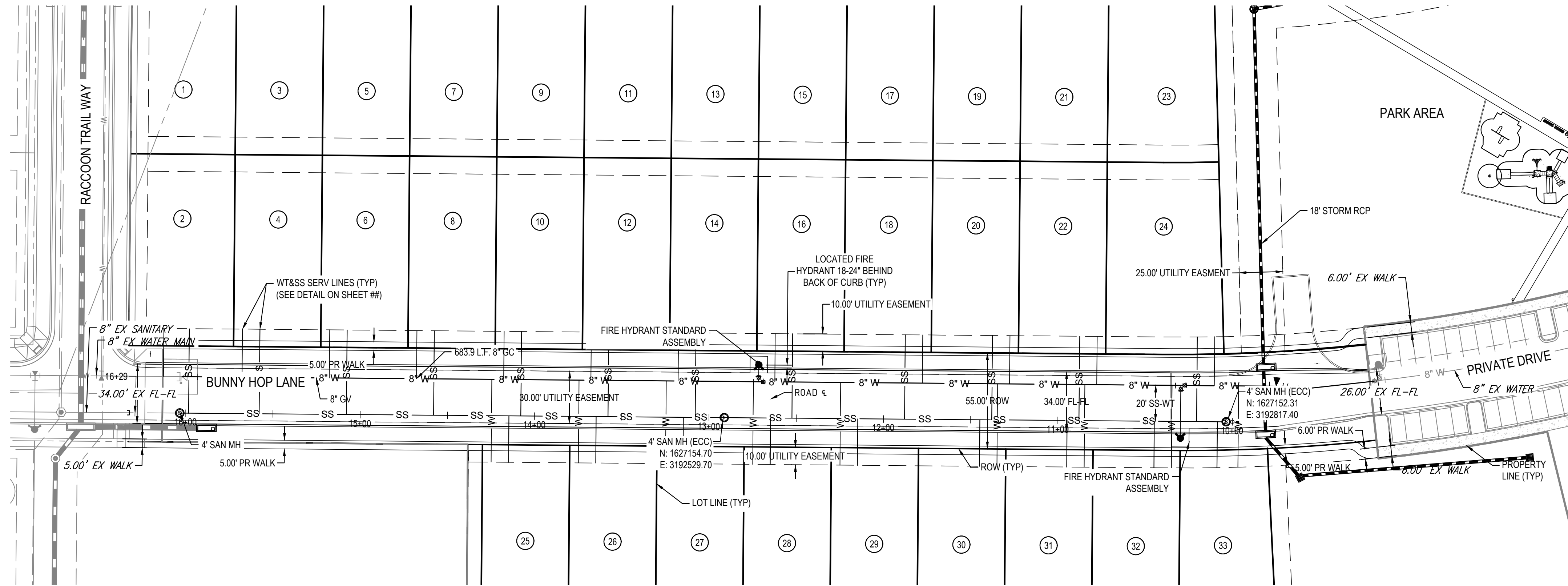
**COMPARK VILLAGE SOUTH**  
WATER AND SANITARY  
PLANS  
WATER-P&P

ISSUED FOR REVIEW

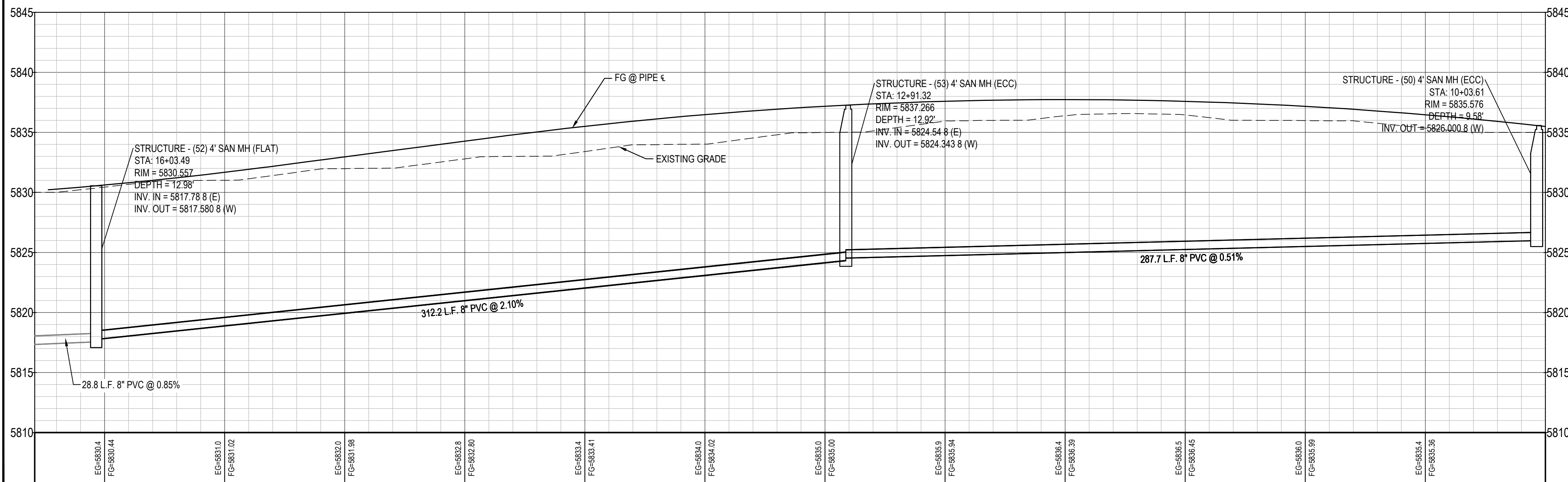
JOB NUMBER	65120350
DATE	4/22/2022
SHEET	C7.3
OF	04



THE NEW ORLEANS SUBURBAN AREA DEVELOPMENT IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, INC. A SERVICE PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE IN WHOLE OR IN PART OR FOR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INFORMATION NOT A PART OF THIS INSTRUMENT WITHOUT THE WRITTEN CONSENT OF MERRICK AND COMPANY SHALL BE AT THE USER'S RISK. THE USER ASSUMES ALL LIABILITY TO THE USER AND ASSUMES ALL LIABILITY TO MERRICK AND COMPANY.



BUNNY HOP LANE SANITARY PROFILE



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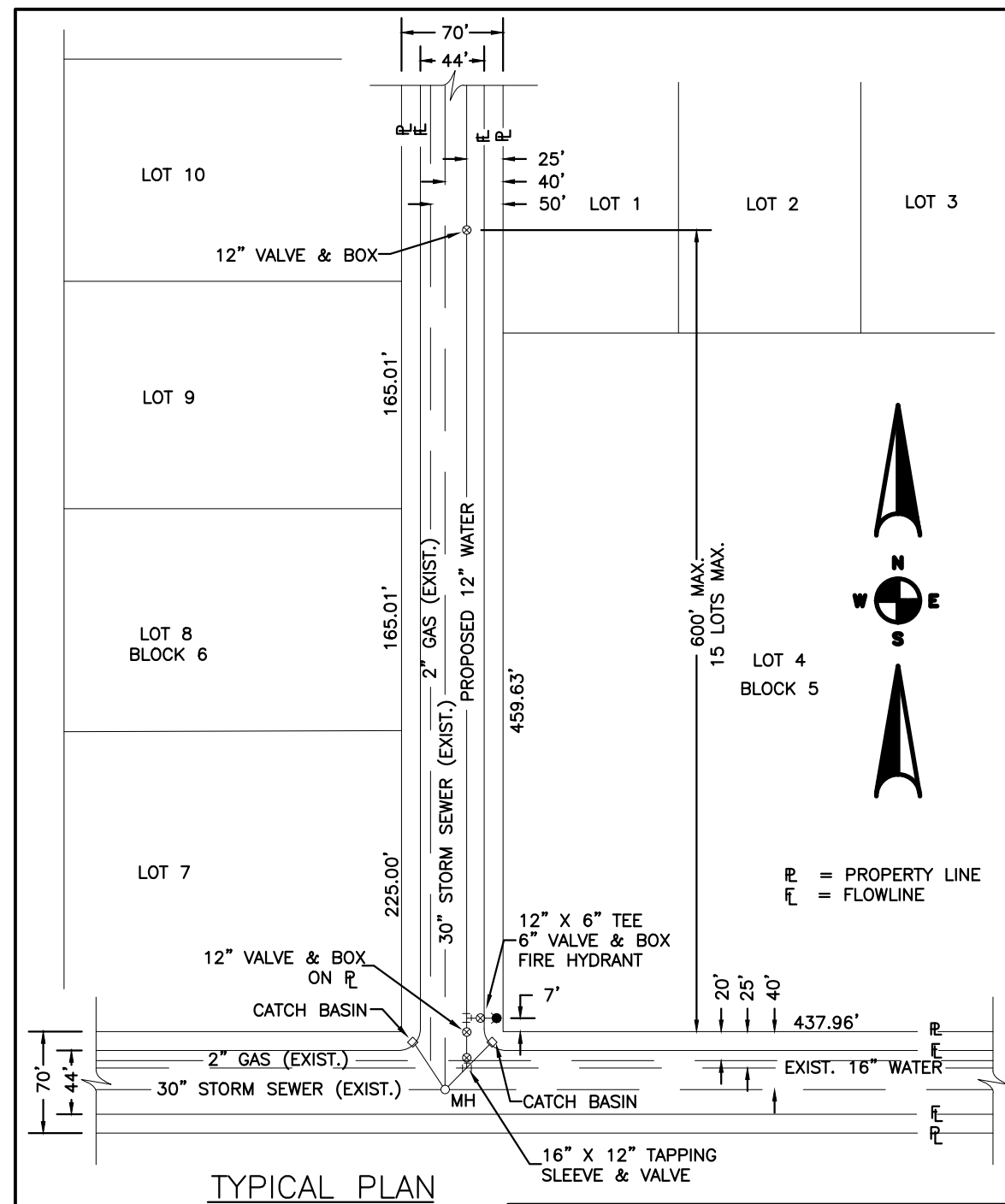
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**COMPARK VILLAGE SOUTH**  
 WATER AND SANITARY  
 PLANS  
 SAN-P&P

ISSUED FOR REVIEW  
 FOR AND ON BEHALF OF MERRICK & COMPANY

JOB NUMBER	65120550
DATE	4/22/2022
SHEET	C7.5
TOTAL SHEETS	05

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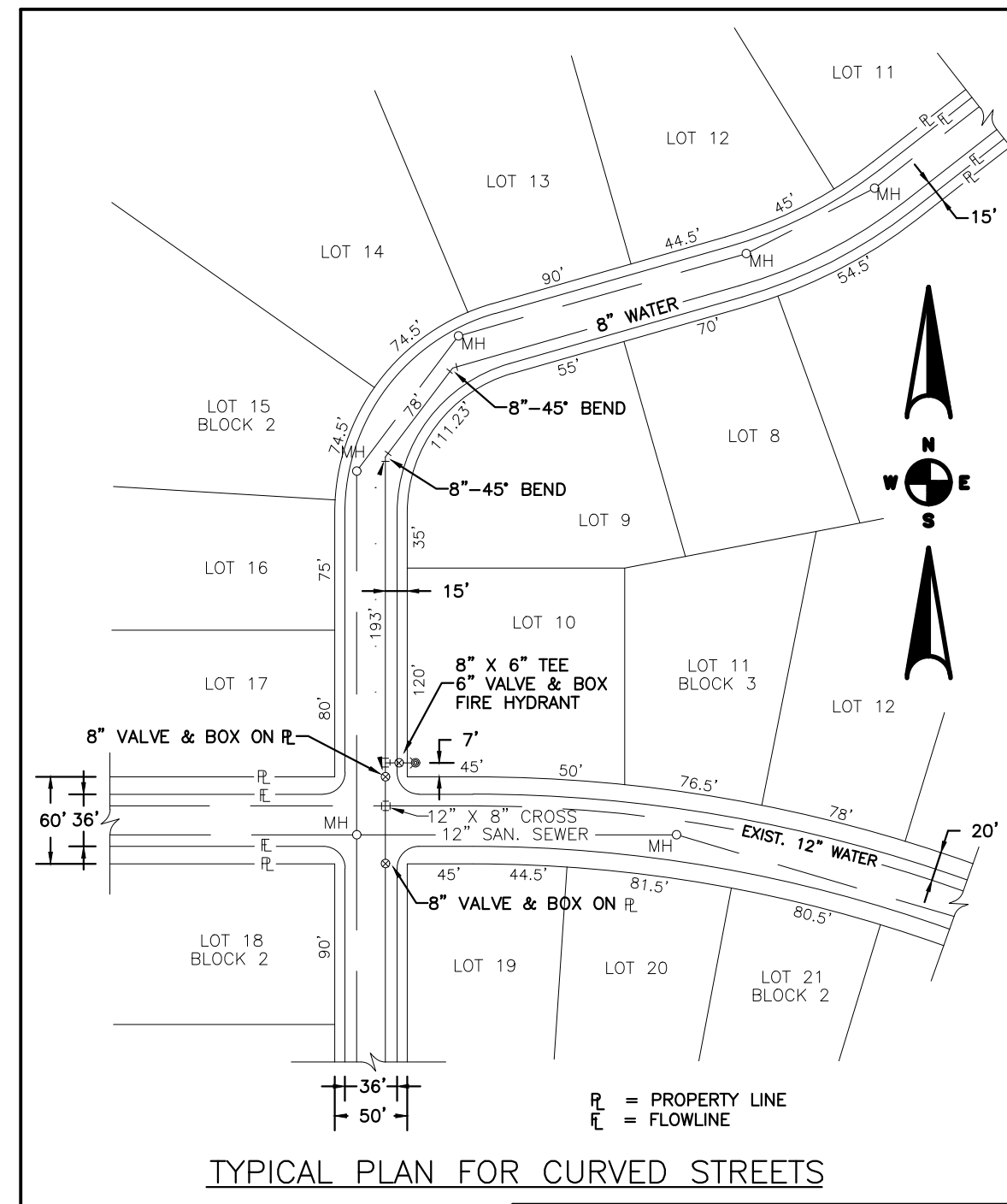


**TYPICAL PLAN**

NOTES:  
 1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q<sub>4</sub> PROFILE" DRAWING.  
 2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 WATER DISTRIBUTION SYSTEM  
 TYPICAL PLAN

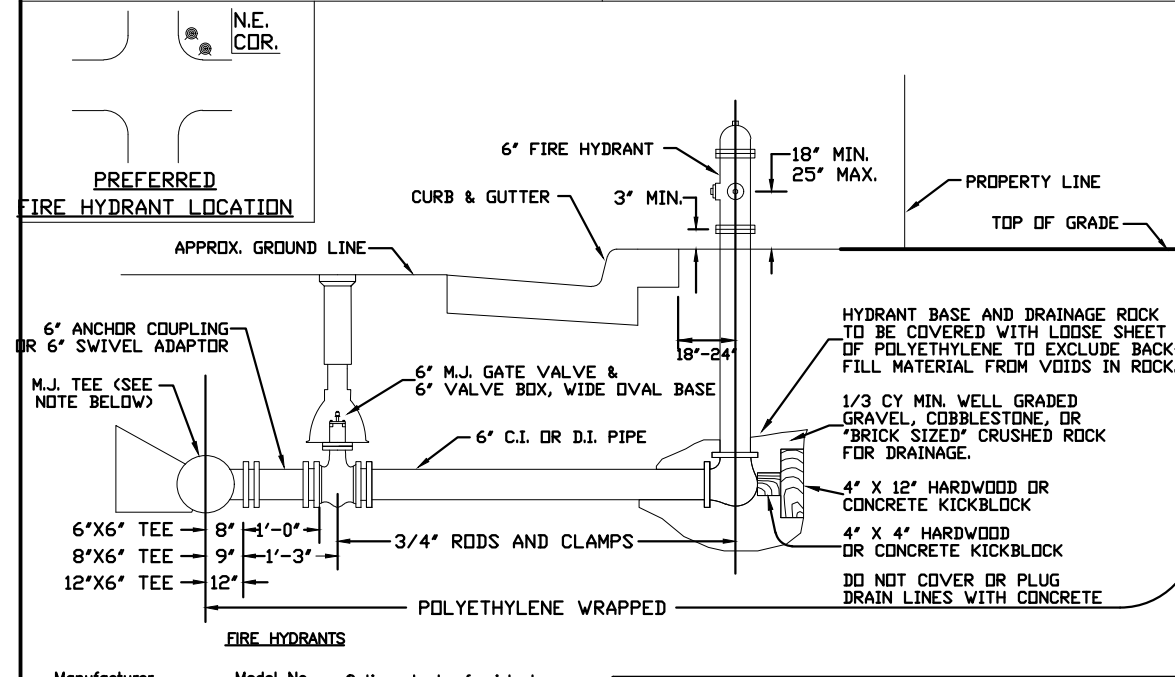
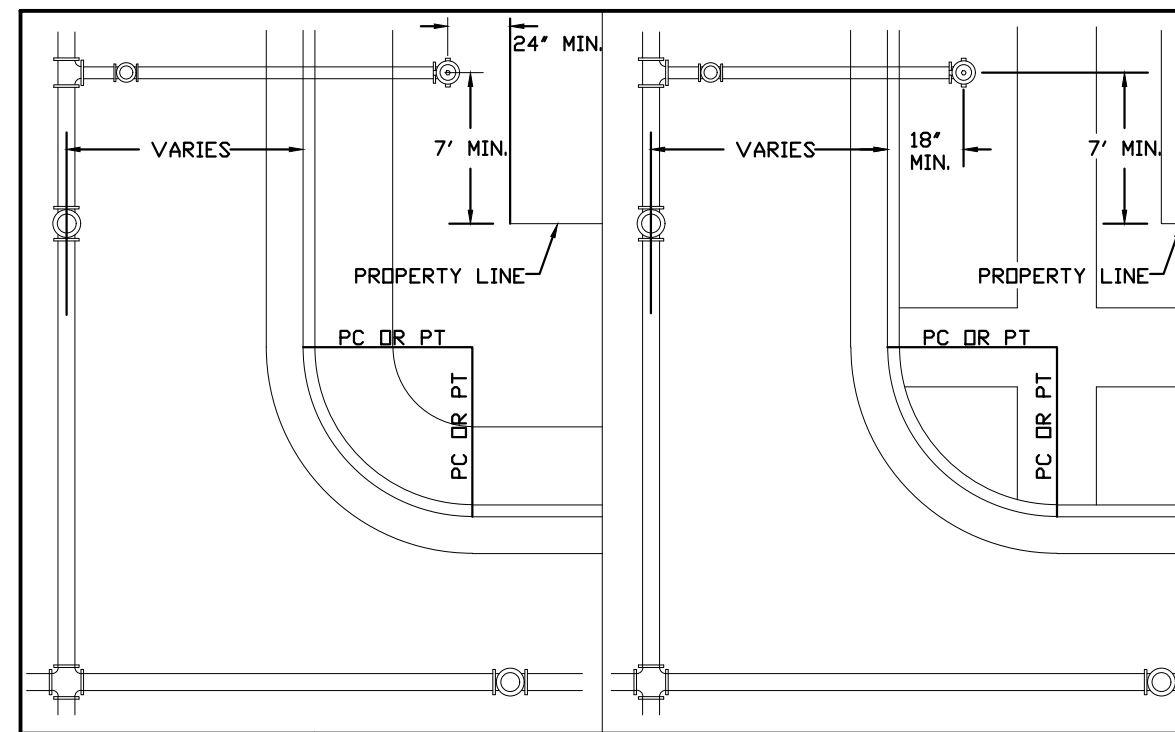
SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER



**TYPICAL PLAN FOR CURVED STREETS**

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 WATER DISTRIBUTION SYSTEM  
 TYPICAL PLAN FOR CURVED STREETS

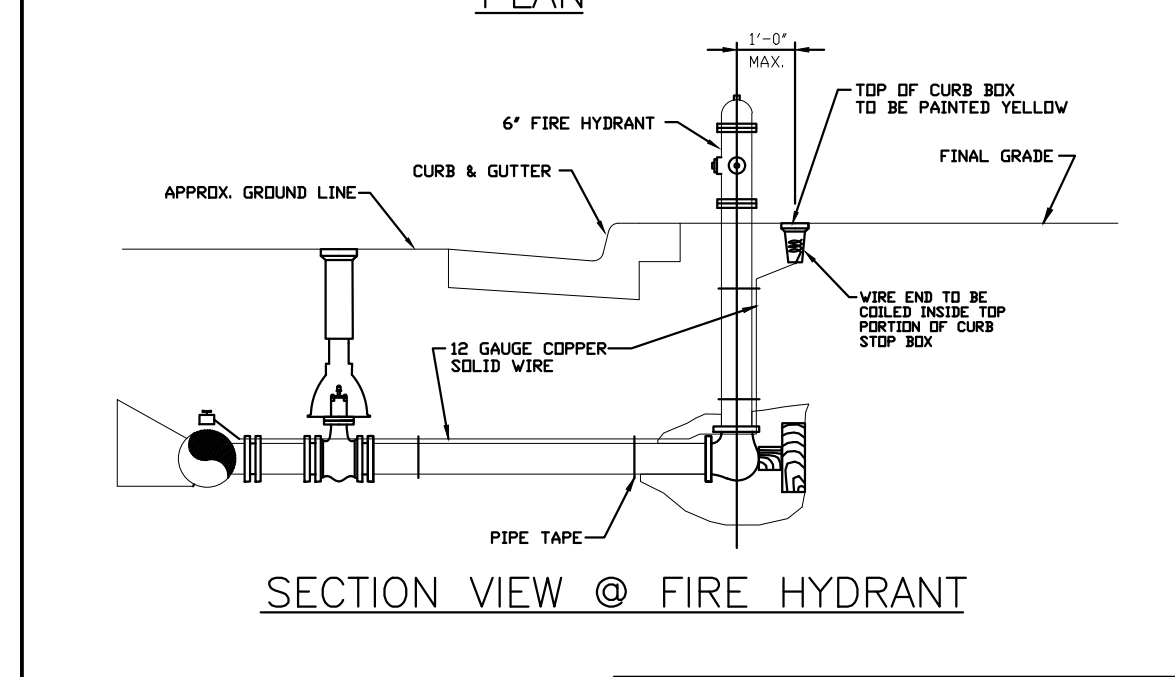
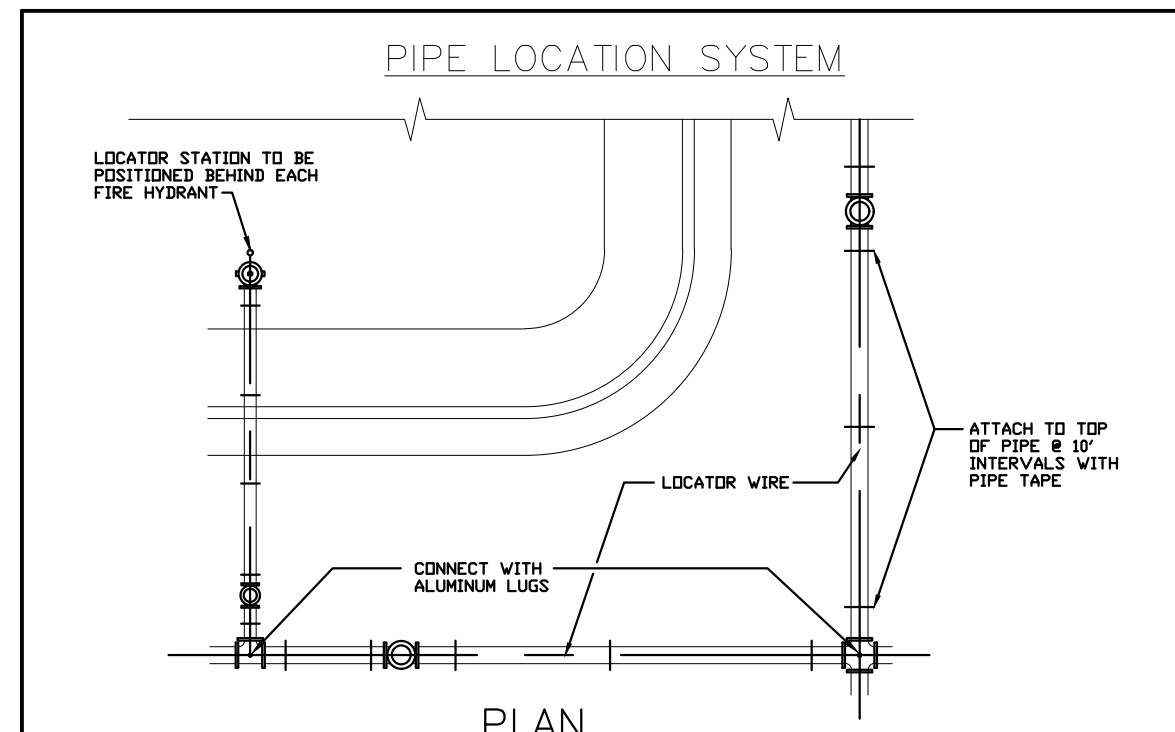
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**FIRE HYDRANTS LOCATION & INSTALLATION**

STONEGATE VILLAGE METROPOLITAN DISTRICT

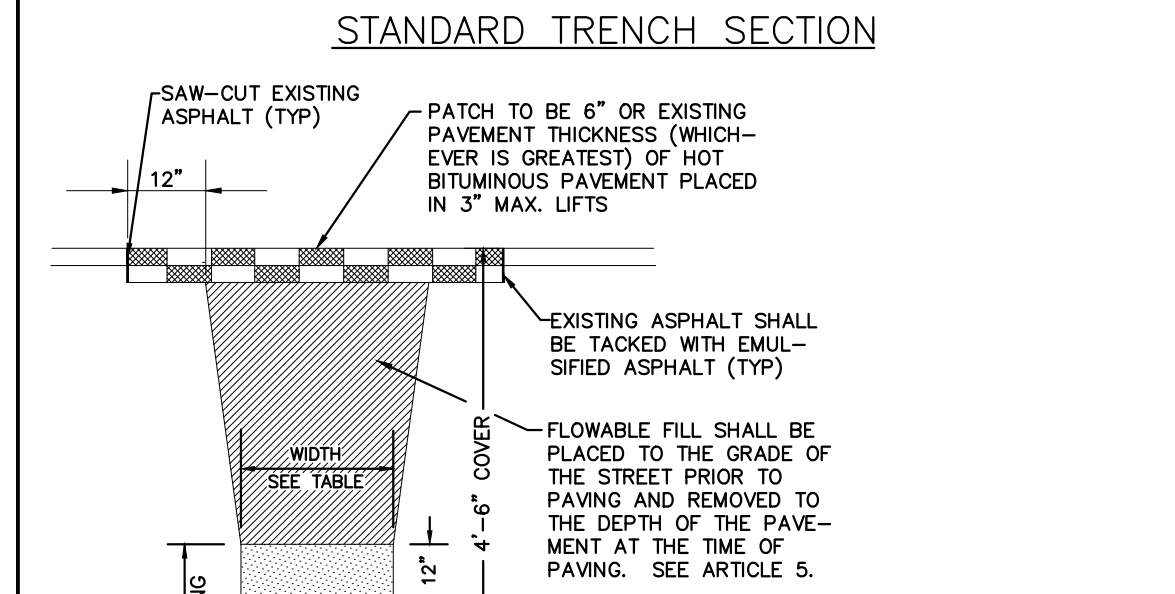
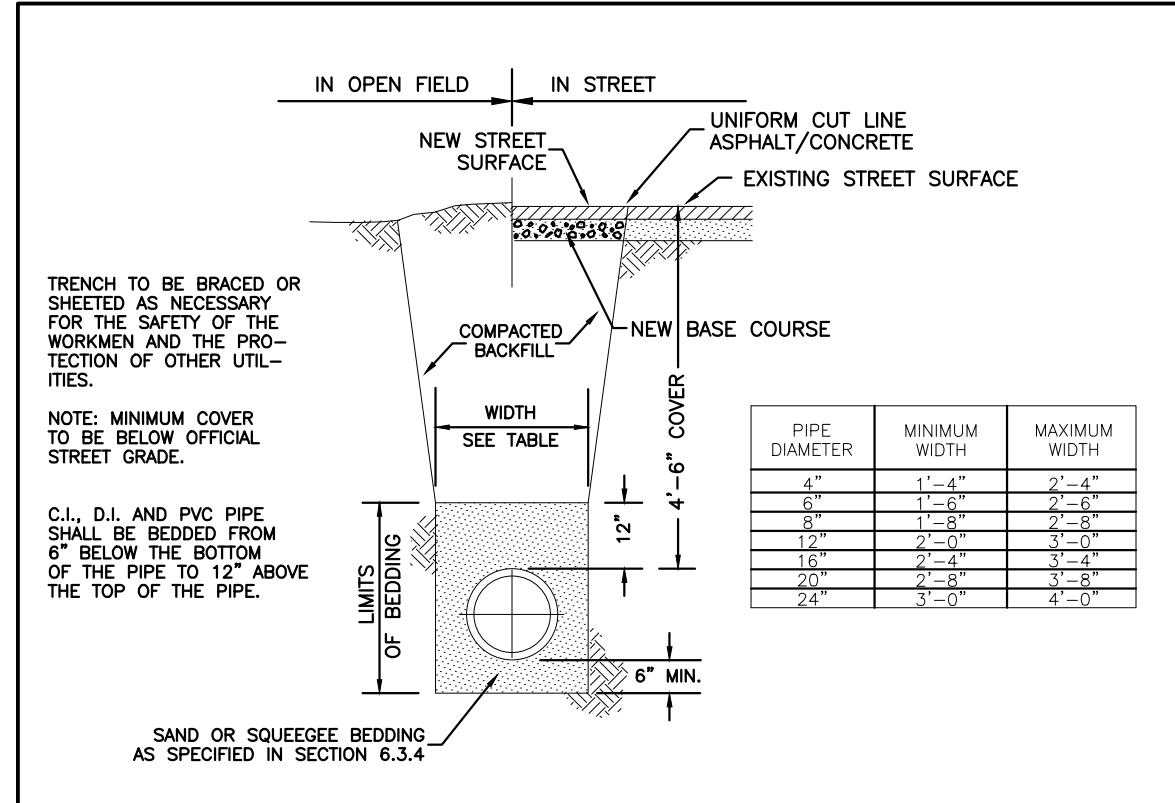
SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER



**LOCATOR WIRE DETAILS**

STONEGATE VILLAGE METROPOLITAN DISTRICT

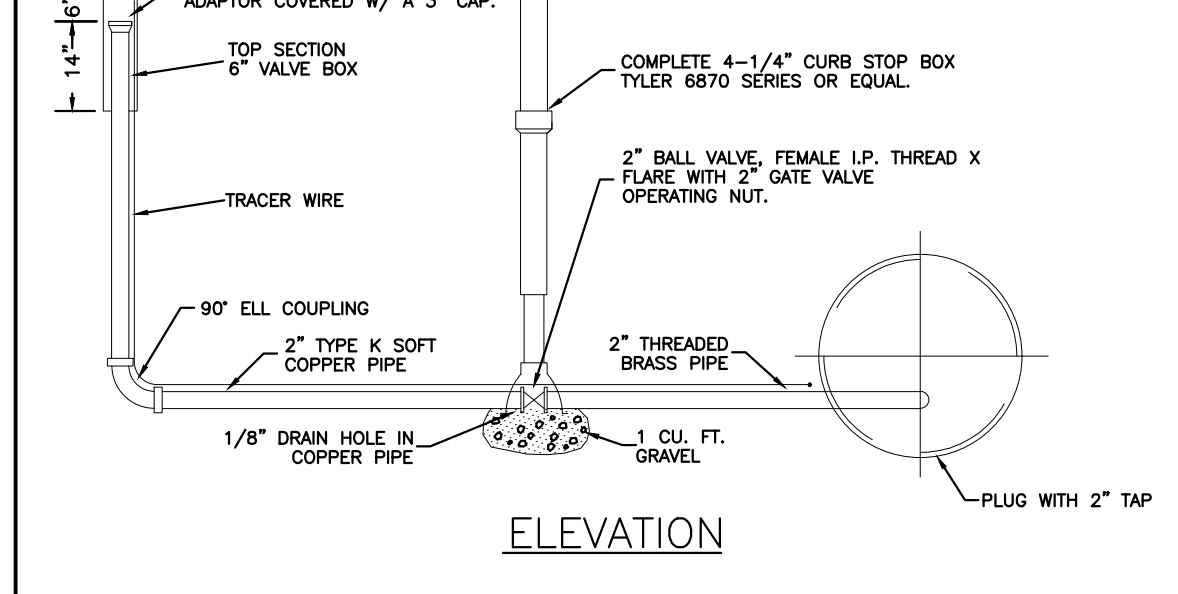
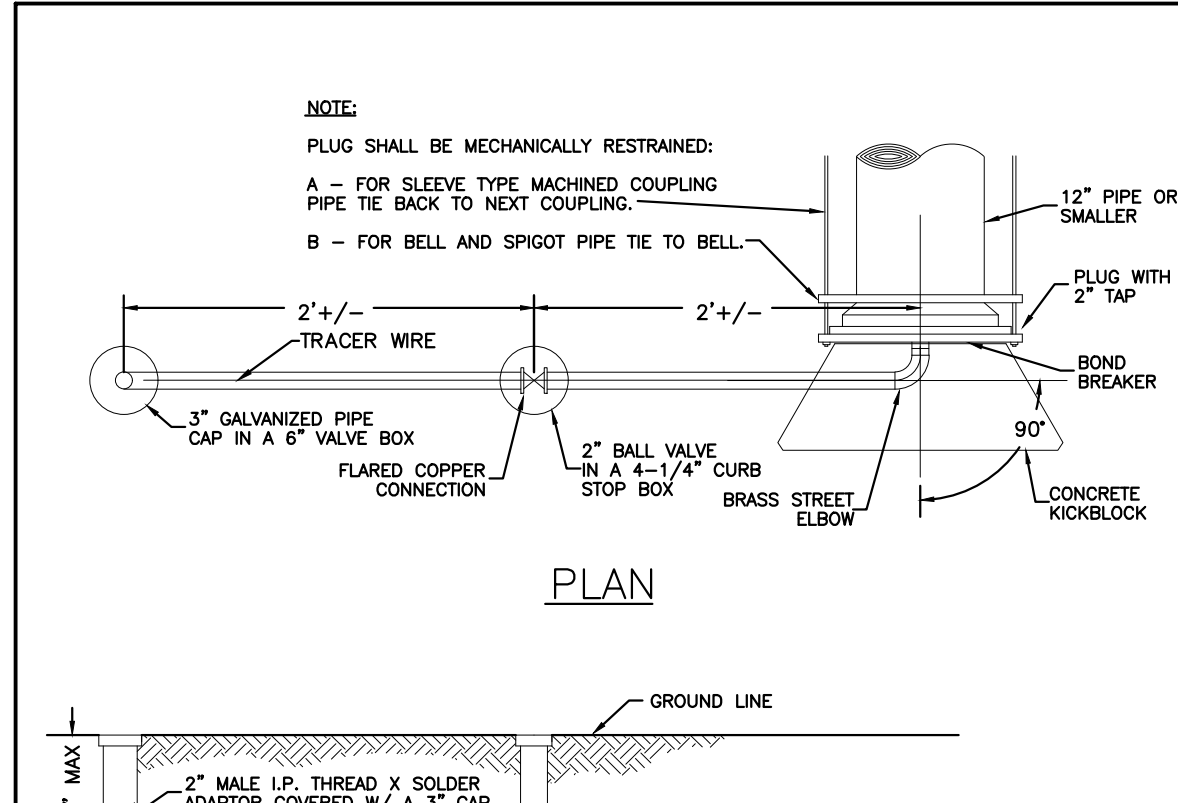
SCALE: NONE DATE: 4/00  
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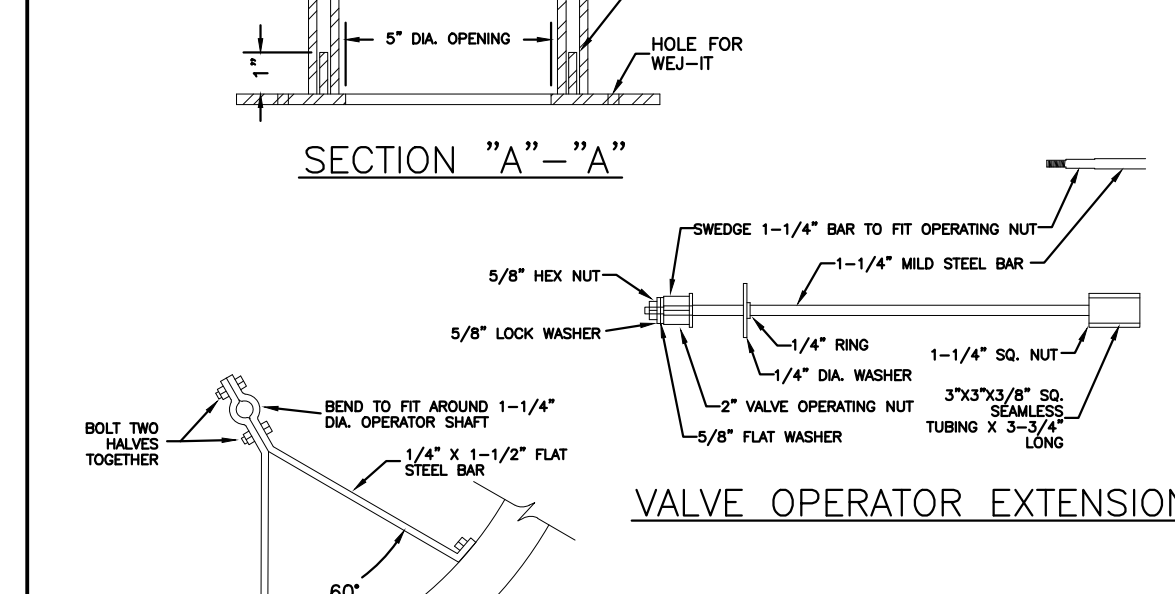
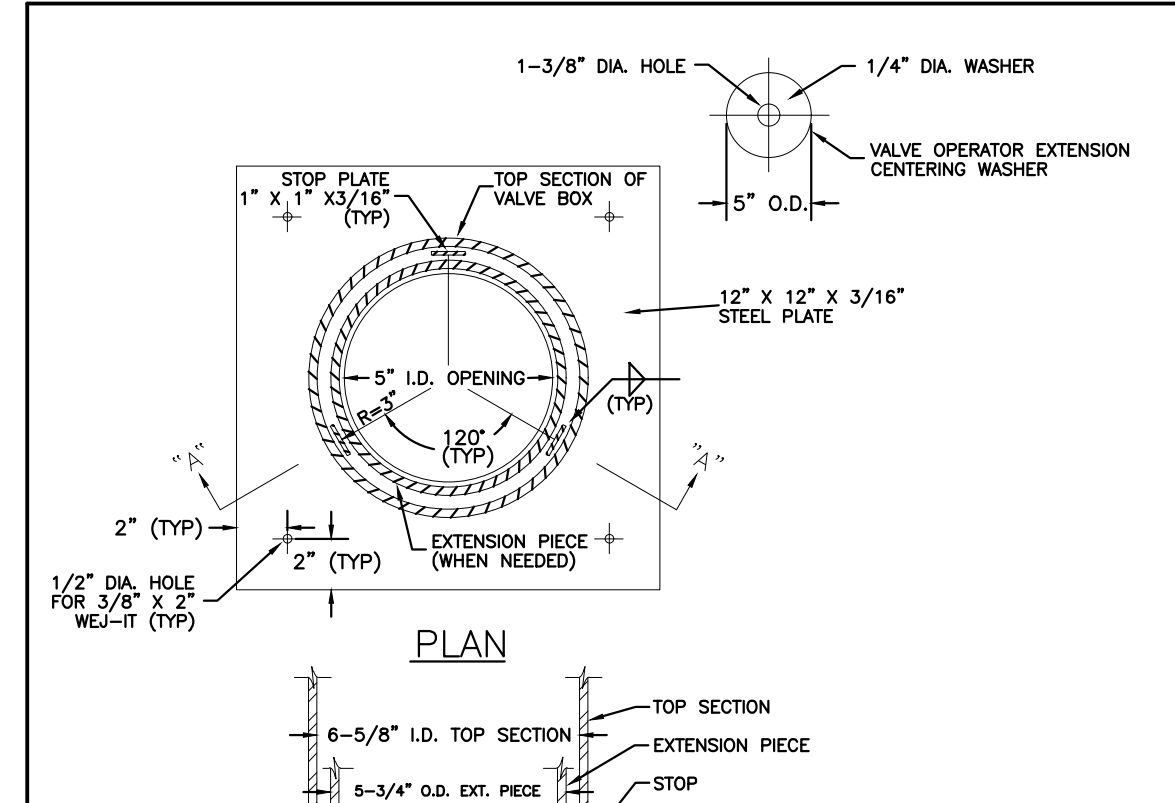
**TYPICAL TRENCH SECTION PIPE PROTECTION**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER



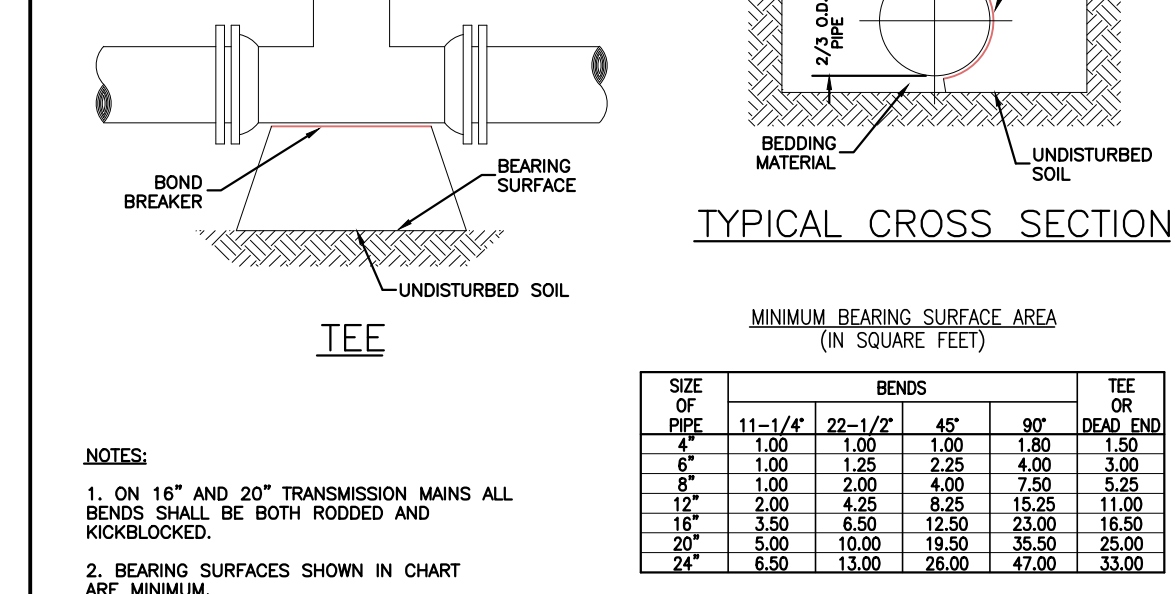
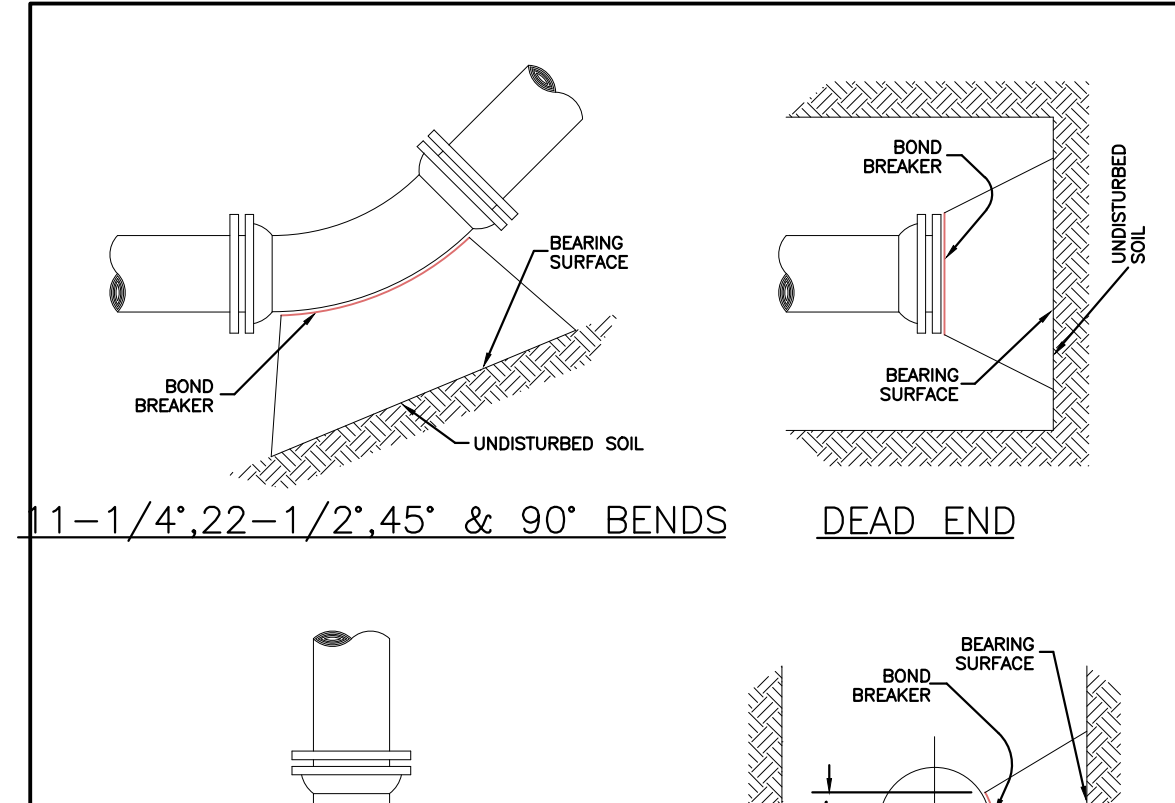
**BLOW-OFF INSTALLATION FOR 12\"/>**



**VALVE BOX SUPPORT PLATE AND EXTENSION GUIDE**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
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**CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION**

STONEGATE VILLAGE METROPOLITAN DISTRICT

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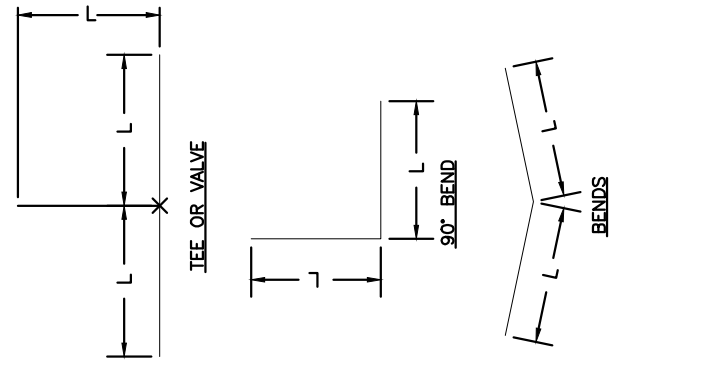
NO.	DATE	DESCRIPTION	BY	CHKD	APPD

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LENGTH OF TIED PIPE

PIPE SIZE	4"	6"	8"	12"	16"	20"	24"
D L L G	D L L G	D L L G	D L L G	D L L G	D L L G	D L L G	D L L G
3/4"	6.0"	5.4"	13.0"	13.0"	13.0"	13.0"	13.0"
45° BEND	3/4"	6.0"	5.4"	13.0"	13.0"	13.0"	13.0"
22-1/2° BEND	3/4"	6.0"	5.4"	13.0"	13.0"	13.0"	13.0"
11-1/4° BEND	3/4"	6.0"	5.4"	13.0"	13.0"	13.0"	13.0"

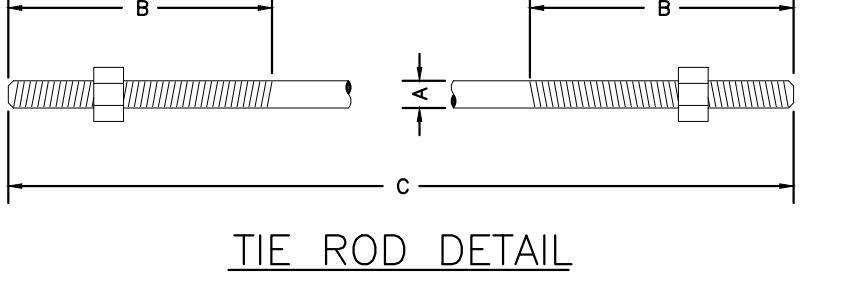
NOTES:  
1. LENGTH OF TIED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.  
2. CLAMPS AND RODS NOT ALLOWED FOR 24" AND LARGER PIPES.  
3. D = DIAMETER, L = LENGTH, G = GRADE, M.S. = MILD STEEL, H.S. = HIGH STRENGTH  
4. MINIMUM 4.5' GROUND COVER REQUIRED.  
5. BASED ON 150 PSI INTERNAL PRESSURE.  
6. M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36.  
7. H.S. MEANS HIGH STRENGTH ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE B-7.  
8. NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES.  
9. CLAMP METALS AND SET CLAMP DETAILS, AS SHOWN IN THE ROD COUPLING DETAILS.  
10. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.  
11. STAR BOLTS NOT ALLOWED ON PIPE LARGER THAN 16".  
12. MINIMUM OF 4 RODS REQUIRED ON 16" PIPE IF STAR BOLTS ARE USED.  
13. TIESS ARE TO BE RODDED ON BRANCH ONLY.  
14. ALL VALVES TO BE RODDED IN BOTH DIRECTIONS.



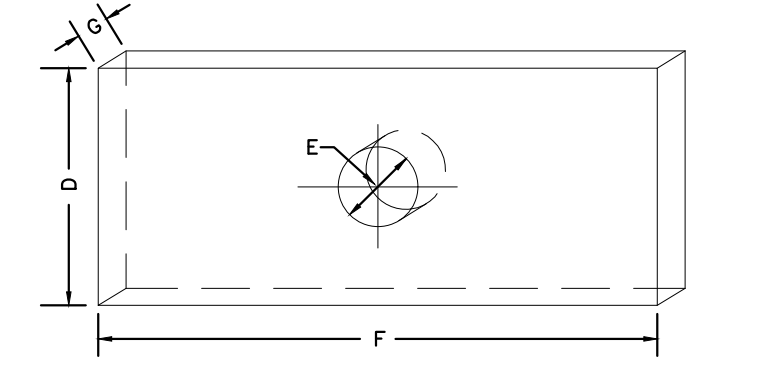
STONEGATE VILLAGE METROPOLITAN DISTRICT  
LENGTH OF TIED PIPE

SCALE: NONE DATE: 4/00  
APPROVED: RJG DISTRICT ENGINEER

2000 REVISION SHEET 18



TIE ROD DETAIL



WASHER DETAIL

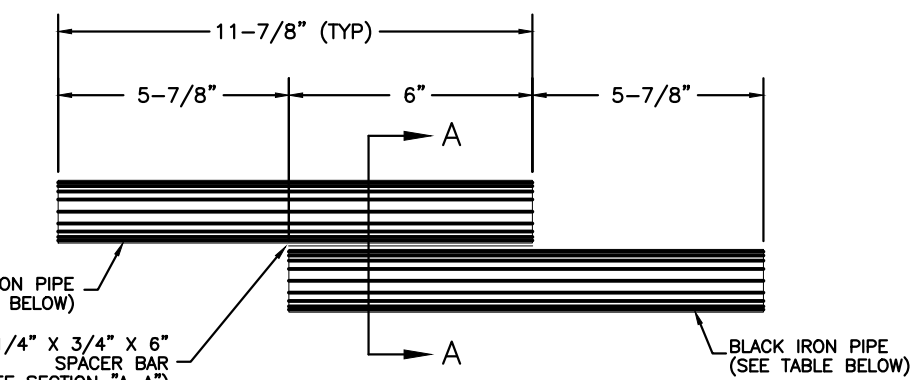
TIE RODS			WASHERS		
ROD DIAMETER	THREAD	ROD LENGTH	WIDTH	HOLE DIAMETER	LENGTH
3/4"	ALL THREADED	10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15, 15 1/2, 16, 16 1/2, 17, 17 1/2, 18, 18 1/2, 19, 19 1/2, 20, 20 1/2, 21, 21 1/2, 22, 22 1/2, 23, 23 1/2, 24	3"	3/8"	7"
1"	ALL THREADED	10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15, 15 1/2, 16, 16 1/2, 17, 17 1/2, 18, 18 1/2, 19, 19 1/2, 20, 20 1/2, 21, 21 1/2, 22, 22 1/2, 23, 23 1/2, 24	4"	3/8"	7"

NOTES:  
1. SEE TIED JOINTS ROD DIMENSIONS SHEET.  
2. SEE CLAMP DETAILS AND DIMENSIONS SHEET 23 FOR PROPER PLACEMENT OF WASHERS.

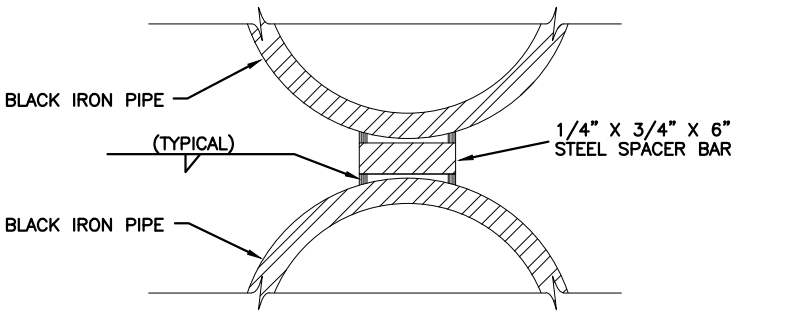
STONEGATE VILLAGE METROPOLITAN DISTRICT  
TIE ROD AND WASHER DETAILS

SCALE: NONE DATE: 4/00  
APPROVED: RJG DISTRICT ENGINEER

2000 REVISION SHEET 19



TIE ROD COUPLING DETAIL

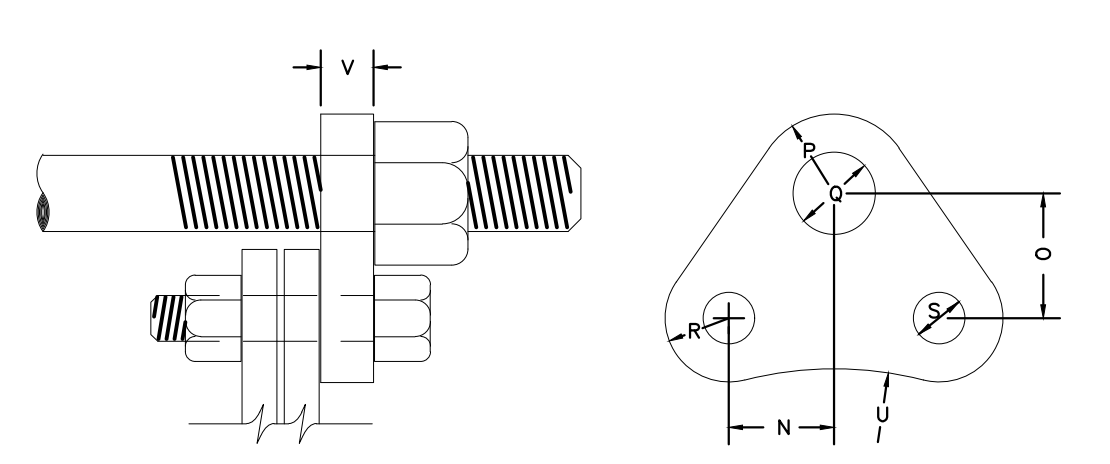


SECTION "A-A"

STONEGATE VILLAGE METROPOLITAN DISTRICT  
TIE ROD COUPLING

SCALE: NONE DATE: 4/00  
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2000 REVISION SHEET 20



FLANGE LUG DETAIL

DIMENSIONS (IN INCHES)

PIPE DIA.	N	O	H.S. ROD			M.S. ROD			R	S	U	V	PIPE DIA.
			P	Q	ROD DIA.	P	Q	ROD DIA.					
4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	3/8"	1 1/2"	1 1/2"	3/8"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	4"
6"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	3/8"	2 1/4"	2 1/4"	3/8"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	6"
8"	3 1/4"	3 1/4"	3 1/4"	3 1/4"	3/8"	3 1/4"	3 1/4"	3/8"	3 1/4"	3 1/4"	3 1/4"	3 1/4"	8"
10"	4 1/4"	4 1/4"	4 1/4"	4 1/4"	3/8"	4 1/4"	4 1/4"	3/8"	4 1/4"	4 1/4"	4 1/4"	4 1/4"	10"
12"	5 1/4"	5 1/4"	5 1/4"	5 1/4"	3/8"	5 1/4"	5 1/4"	3/8"	5 1/4"	5 1/4"	5 1/4"	5 1/4"	12"
16"	6 3/4"	6 3/4"	6 3/4"	6 3/4"	3/8"	6 3/4"	6 3/4"	3/8"	6 3/4"	6 3/4"	6 3/4"	6 3/4"	16"
24"	9 1/4"	9 1/4"	9 1/4"	9 1/4"	3/8"	9 1/4"	9 1/4"	3/8"	9 1/4"	9 1/4"	9 1/4"	9 1/4"	24"

NOTES:  
1. M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36. (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES).  
2. H.S. MEANS HIGH STRENGTH STEEL ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE B-7. (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-194 GRADE 2H).  
3. FLANGE LUGS SHALL NOT BE USED ON VALVES.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
FLANGE LUG DETAIL

SCALE: NONE DATE: 4/00  
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2000 REVISION SHEET 21

PIPE BEDDING:

(a) Installation of Bedding and Pipe: After completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed on the trench bottom for support under the pipe. Bell holes shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bell and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is adjusted for line and grade, and the joint is made, the bedding material shall be carefully placed and tamped under the haunches of the pipe and in the previously dug bell holes.

Tamping is herein defined as the act of placing approved bedding material under the haunches of the pipe, paying particular attention to voids, bell holes, and sling holes. The purpose of tamping is to ensure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved backfill may then be installed to the groundline. See Section 8 of these Standards for backfill and composition of backfill.

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet 8 of the Standard Drawings for a typical trench cross section.

(b) Bedding Material: The bedding material shall be a clean well-graded sand or squeegee sand and shall conform to the following limits when tested by means of laboratory sieves:

Well-Graded Sand

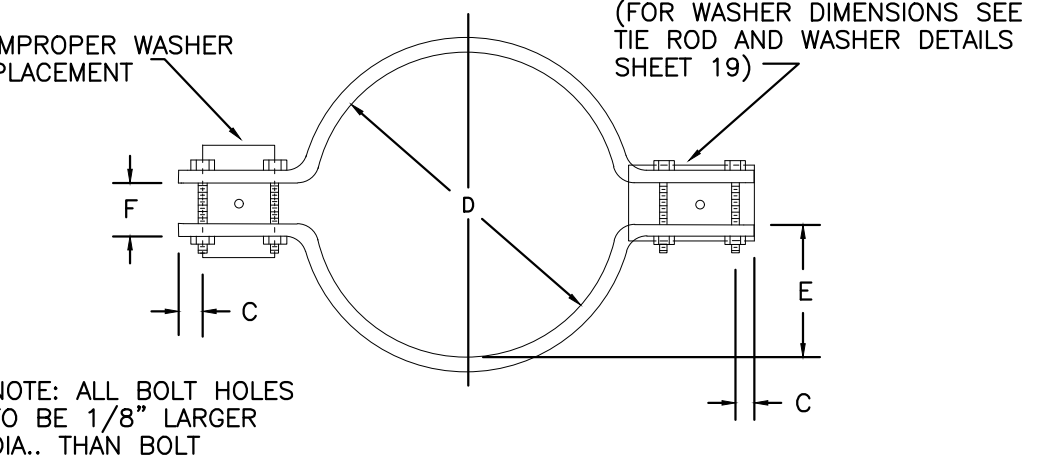
Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	85-100
No. 8	50-85
No. 16	25-60
No. 30	10-30
No. 50	2-10
No. 100	0
No. 200	0

If approved by the District, fines form the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the sieve analysis, or any other detrimental substance, shall be placed closer to the pipe than six inches (6"). Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
PIPE BEDDING

SCALE: NONE DATE: 4/00  
APPROVED: RJG DISTRICT ENGINEER

2000 REVISION SHEET 22



NOTE: ALL BOLT HOLES TO BE 1/8" LARGER DIA. THAN BOLT

CLAMP DETAILS

DIMENSIONS

TABLE OF DIMENSIONS FOR CLAMPS

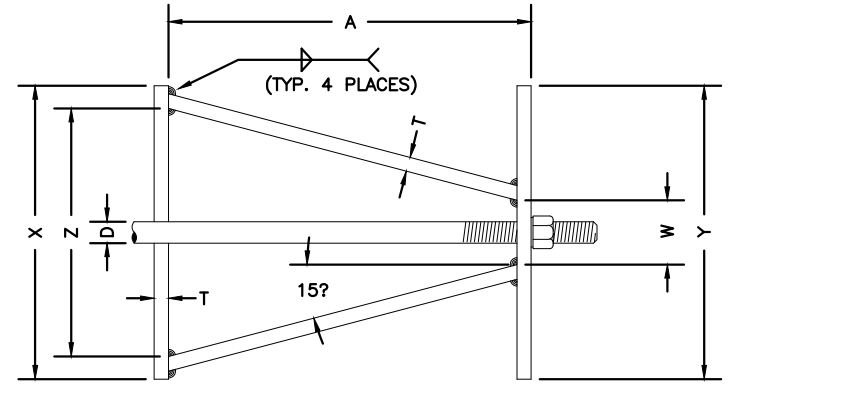
PIPE DIA.	CLAMP	A	B	C	D	E	F	BOLT SIZES	PIPE DIA.						
4"	CLAMP	9-3/4"	7-1/2"	3-1/2"	3-1/2"	1"	1"	6-3/4"	4-7/8"	2-3/4"	1-13/16"	1-1/4"	3/8"	2-1/2x3/8"	4"
6"	CLAMP	13"	9-1/2"	4"	4-1/2"	2"	2"	10-1/4"	7-7/8"	4-1/8"	2-19/16"	2"	1-1/4"	3-1/2x1/2"	6"
8"	CLAMP	15 1/2"	12-3/4"	4 3/4"	4 1/2"	2 1/4"	2 1/4"	12-1/4"	9 3/4"	5 1/8"	4"	2"	1 3/4"	4-1/2x1/2"	8"
10"	CLAMP	17 1/2"	14-3/8"	4 5/8"	4 3/4"	2 3/4"	2 3/4"	14-1/2"	11-1/2"	5 1/2"	4 1/2"	2 1/2"	2 1/2"	4-1/2x5/8"	10"
12"	CLAMP	19 1/2"	16-1/8"	4 5/8"	4 3/4"	3"	3"	16-1/2"	13-1/2"	6"	5-1/2"	3"	3"	5-1/2x5/8"	12"
16"	CLAMP	24-1/2"	21-7/8"	4 1/2"	4 3/4"	3 1/2"	3 1/2"	19-3/4"	17-1/2"	8-3/8"	7-1/2"	3"	3"	5-1/2x5/8"	16"
20"	CLAMP	30-3/4"	25-3/8"	4 1/2"	4 3/4"	3 1/2"	3 1/2"	24-3/4"	21-3/4"	10-7/8"	9-1/2"	3"	3"	5-1/2x5/8"	20"
24"	CLAMP	36-3/4"	31-3/8"	4 1/2"	4 3/4"	3 1/2"	3 1/2"	30-3/4"	27-3/4"	13-1/8"	11-1/2"	3"	3"	5-1/2x5/8"	24"

NOTE: ALL DIMENSIONS IN INCHES  
CLAMPS MAY NOT BE USED ON PVC PIPE.

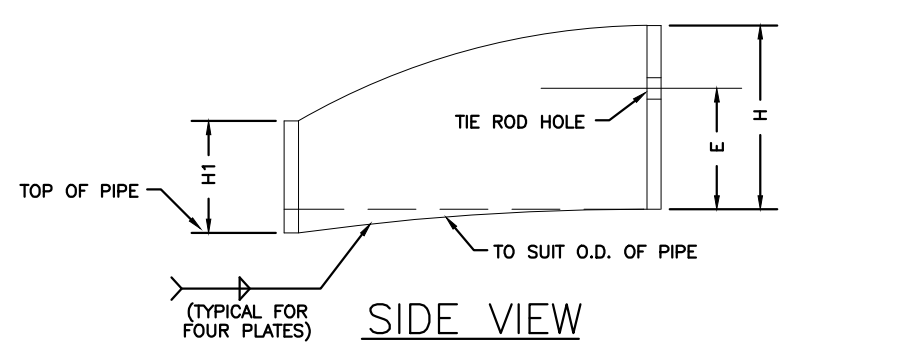
STONEGATE VILLAGE METROPOLITAN DISTRICT  
CLAMP DETAILS AND DIMENSIONS

SCALE: NONE DATE: 4/00  
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2000 REVISION SHEET 23



TOP VIEW



SIDE VIEW

HARNESS LUG DIMENSIONS

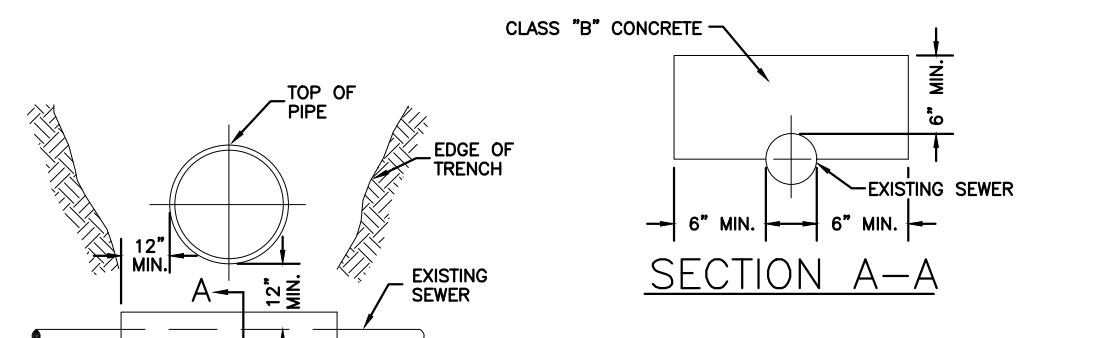
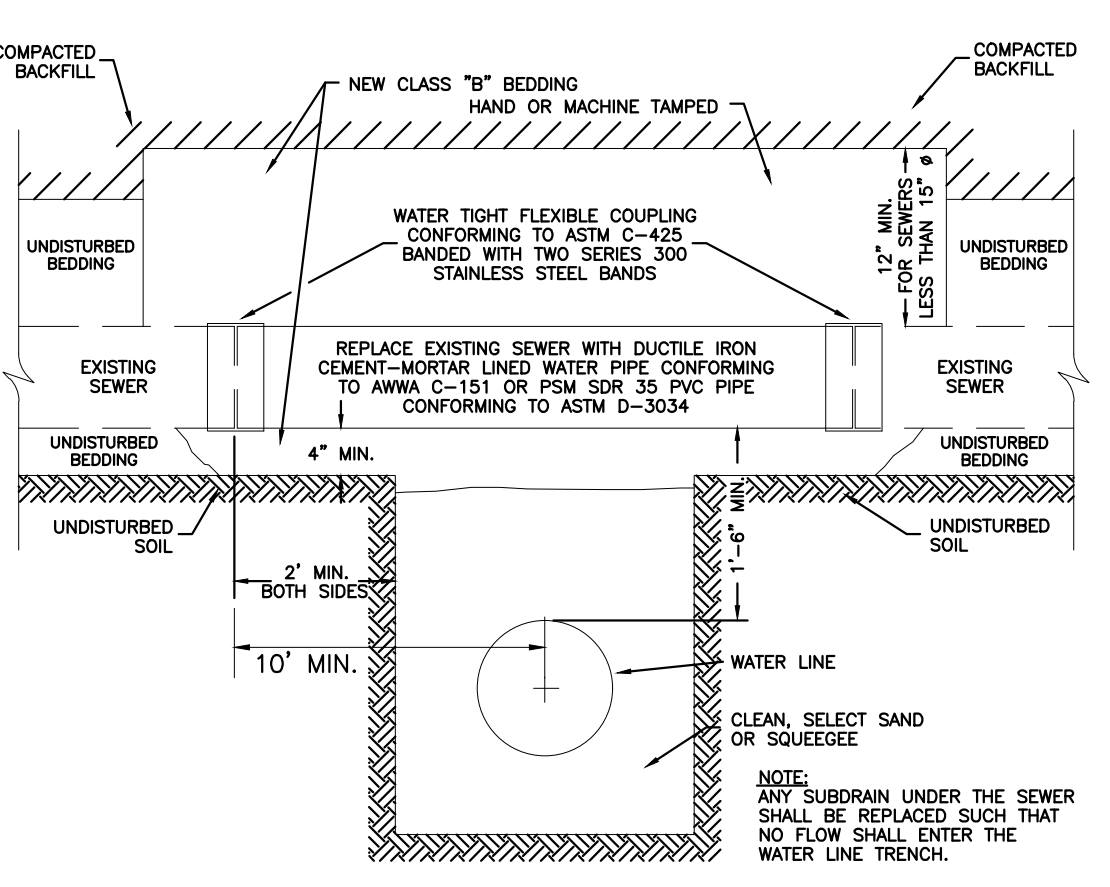
CARRIER PIPE NOMINAL DIA.	STUD DIA.	A	W	Z	T	H	E	H1	Y	X
4" to 16"	3/4"	5"	1-1/2"	3-3/4"	3/8"	4-1/8"	3-1/8"	2"	4-1/2"	5"
20"	1"	5-3/4"	1-3/4"	4-7/16"	3/8"	4-1/2"	3-1/4"	2"	5-1/4"	5-11/16"

NOTES:  
1. USE TWO HIGH STRENGTH STEEL TIE RODS AT END OF CASING.  
2. TIE ROD HOLE DIAMETER 1/8" LARGER THAN STUD DIAMETER.  
3. BOTTOM EDGE OF ALL PLATES SHAPED TO FIT O.D. OF PIPE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
HARNESS LUG DETAILS

SCALE: NONE DATE: 4/00  
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2000 REVISION SHEET 24



STONEGATE VILLAGE METROPOLITAN DISTRICT  
CROSSING STORM & SANITARY SEWERS

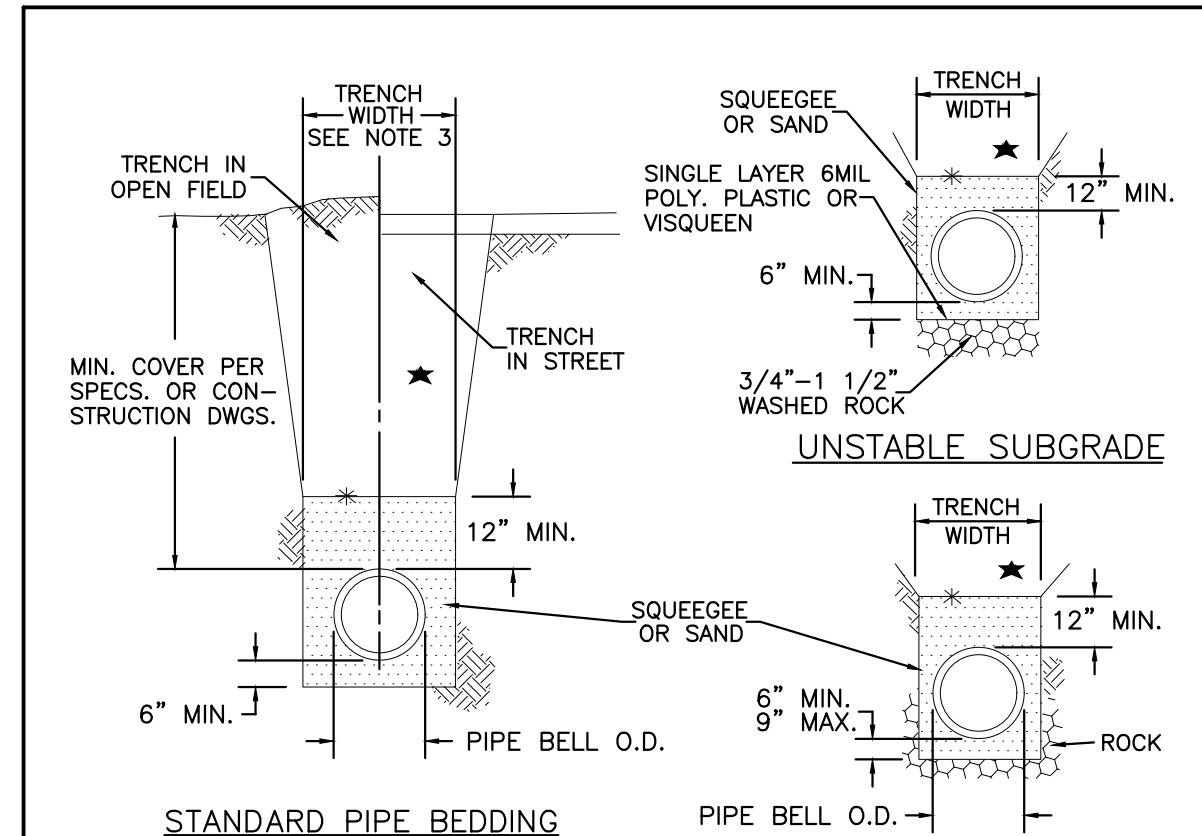
SCALE: NONE DATE: 4/00  
APPROVED: RJG DISTRICT ENGINEER

2000 REVISION SHEET 28

NO.	DATE	DESCRIPTION

COMPARK VILLAGE SOUTH WATER AND SANITARY PLANS  
STANDARD DETAILS - WATER

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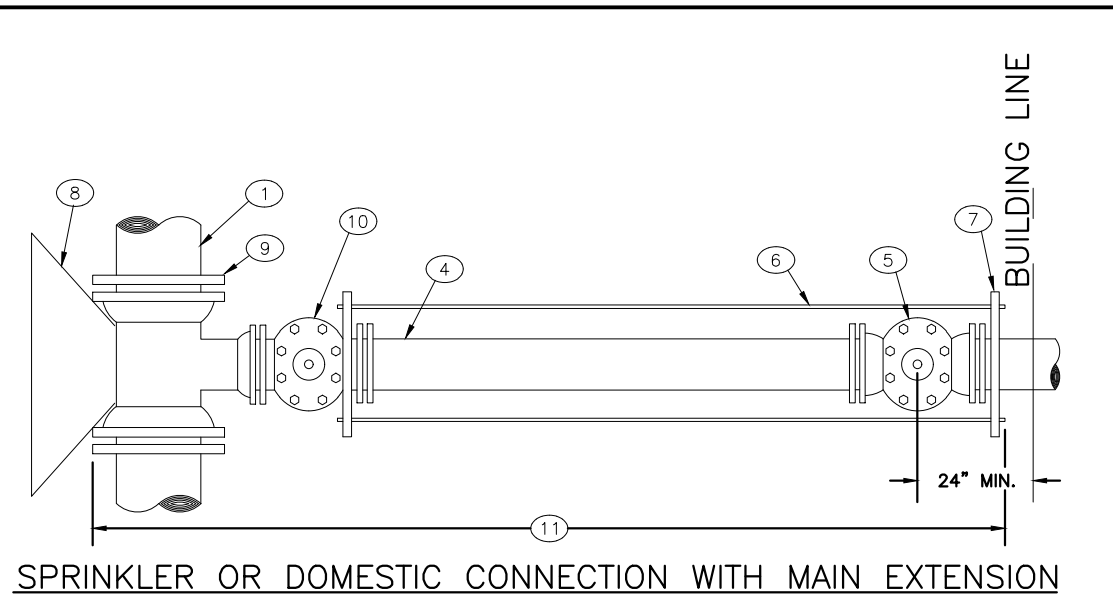


- ★ MACHINE COMPACTED TRENCH BACKFILL
- \* LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS
- UNDISTURBED GROUND

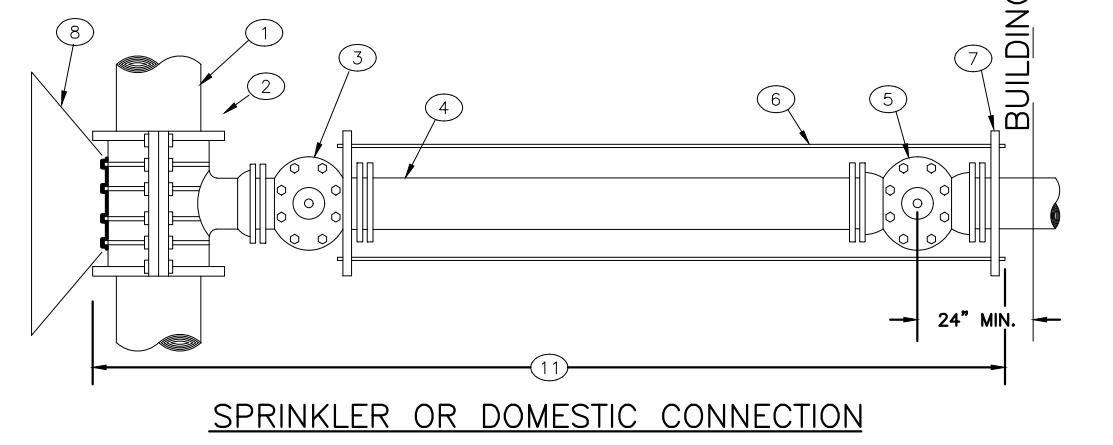
- NOTES:
1. MIN. COVER TO BE BELOW FINAL STREET GRADE WHEN AVAILABLE.
  2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE PROTECTION OF OTHER UTILITIES AND TO MEET OSHA SAFETY REQUIREMENT.
  3. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE LAID THEREIN (BELL OR COUPLING O.D. IF APPLICABLE).

STONEGATE VILLAGE METROPOLITAN DISTRICT	
BEDDING DETAILS	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

2000 REVISION SHEET 29

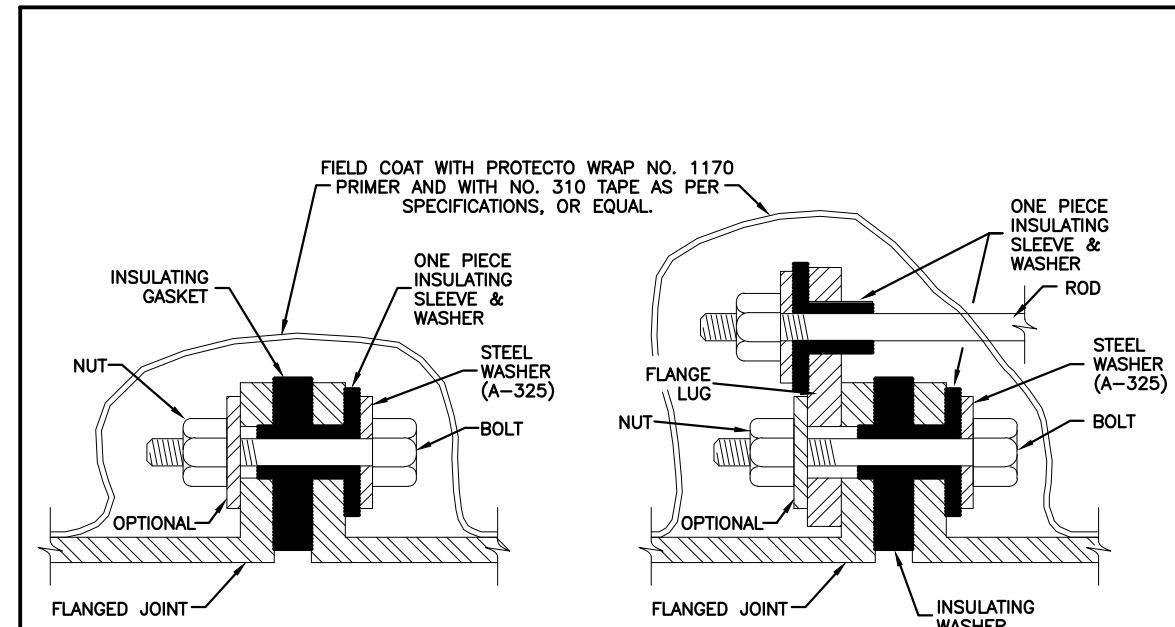


STONEGATE VILLAGE METROPOLITAN DISTRICT  
3" AND LARGER DOMESTIC AND SPRINKLER CONNECTIONS

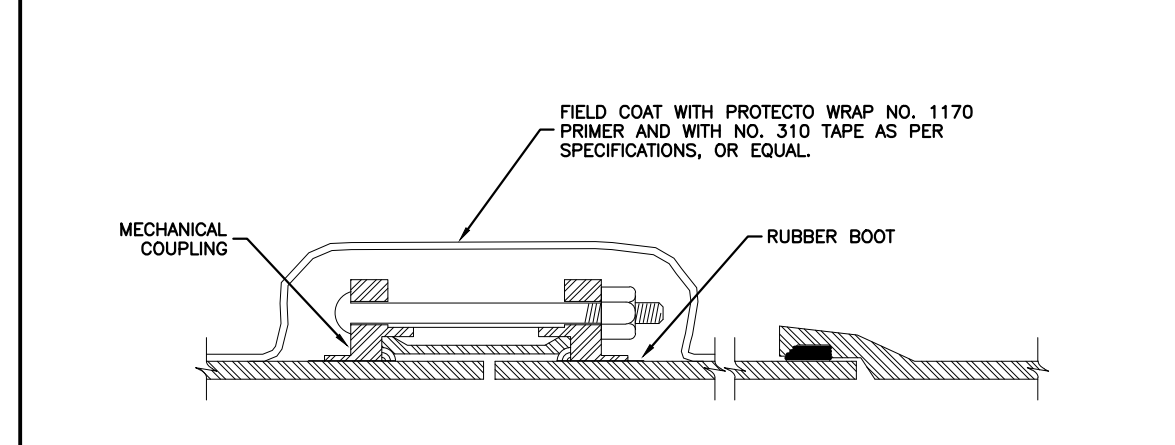


STONEGATE VILLAGE METROPOLITAN DISTRICT	
3" AND LARGER DOMESTIC AND SPRINKLER CONNECTIONS	
SCALE: NONE	DATE: 4/00
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2000 REVISION SHEET 31

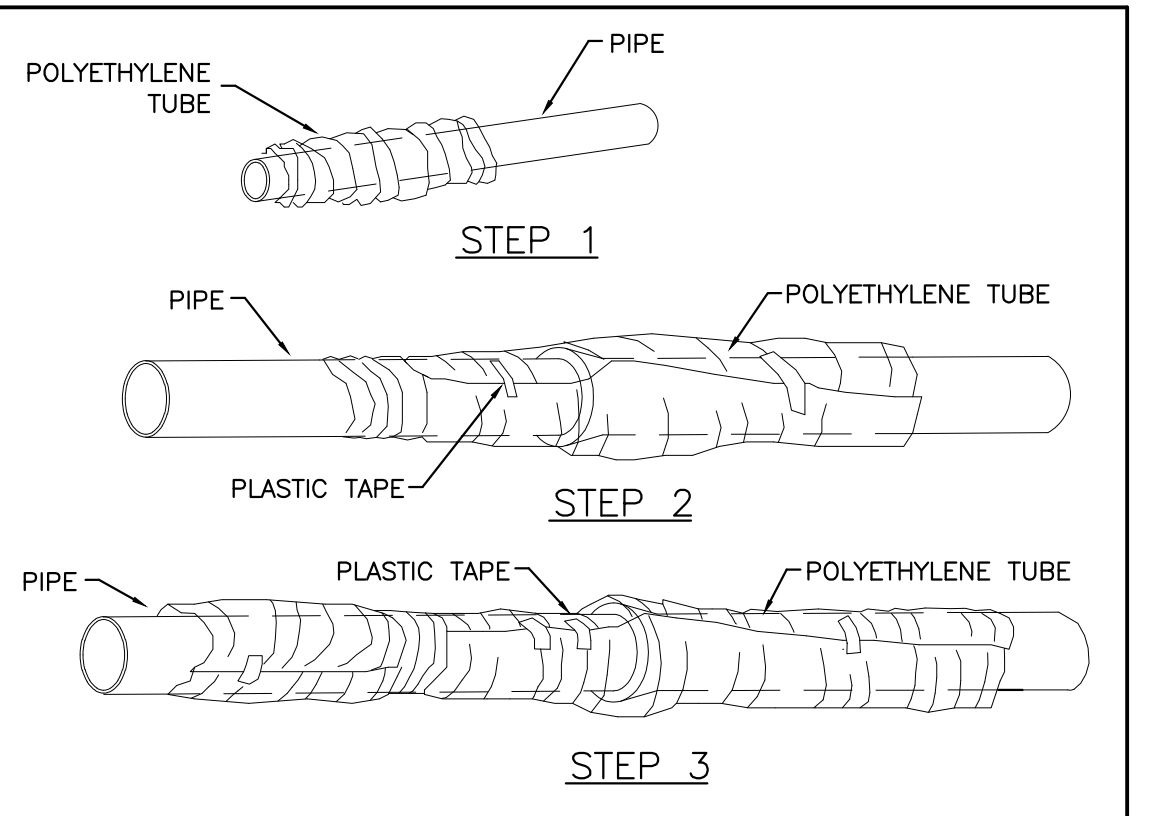


STONEGATE VILLAGE METROPOLITAN DISTRICT  
INSULATED JOINTS, RODS AND MECHANICAL COUPLINGS



STONEGATE VILLAGE METROPOLITAN DISTRICT	
INSULATED JOINTS, RODS AND MECHANICAL COUPLINGS	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

2000 REVISION SHEET 32

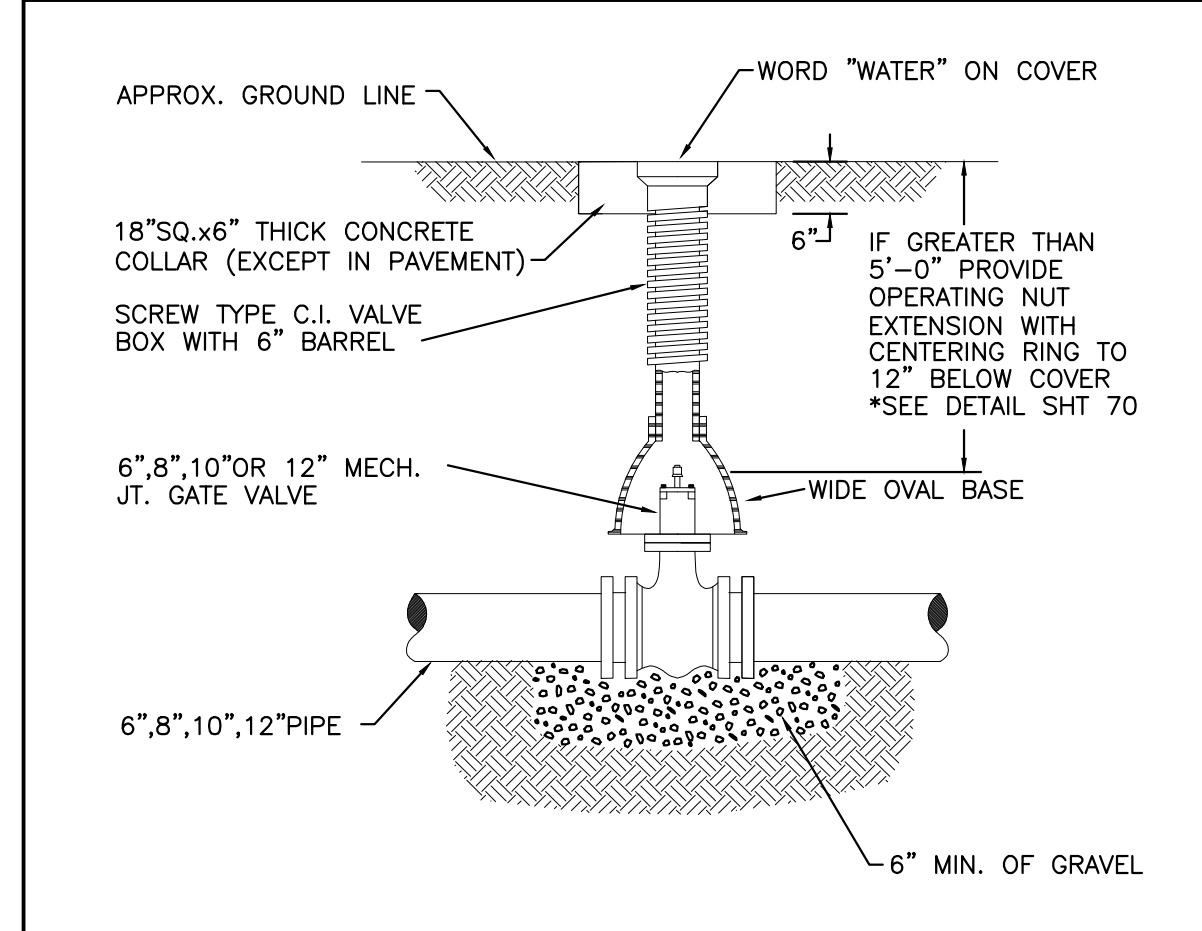


STONEGATE VILLAGE METROPOLITAN DISTRICT  
POLYETHYLENE WRAP

- FIELD INSTALLATION - POLYETHYLENE WRAP
- STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.
  - STEP 2 - PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.
  - STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

STONEGATE VILLAGE METROPOLITAN DISTRICT	
POLYETHYLENE WRAP	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

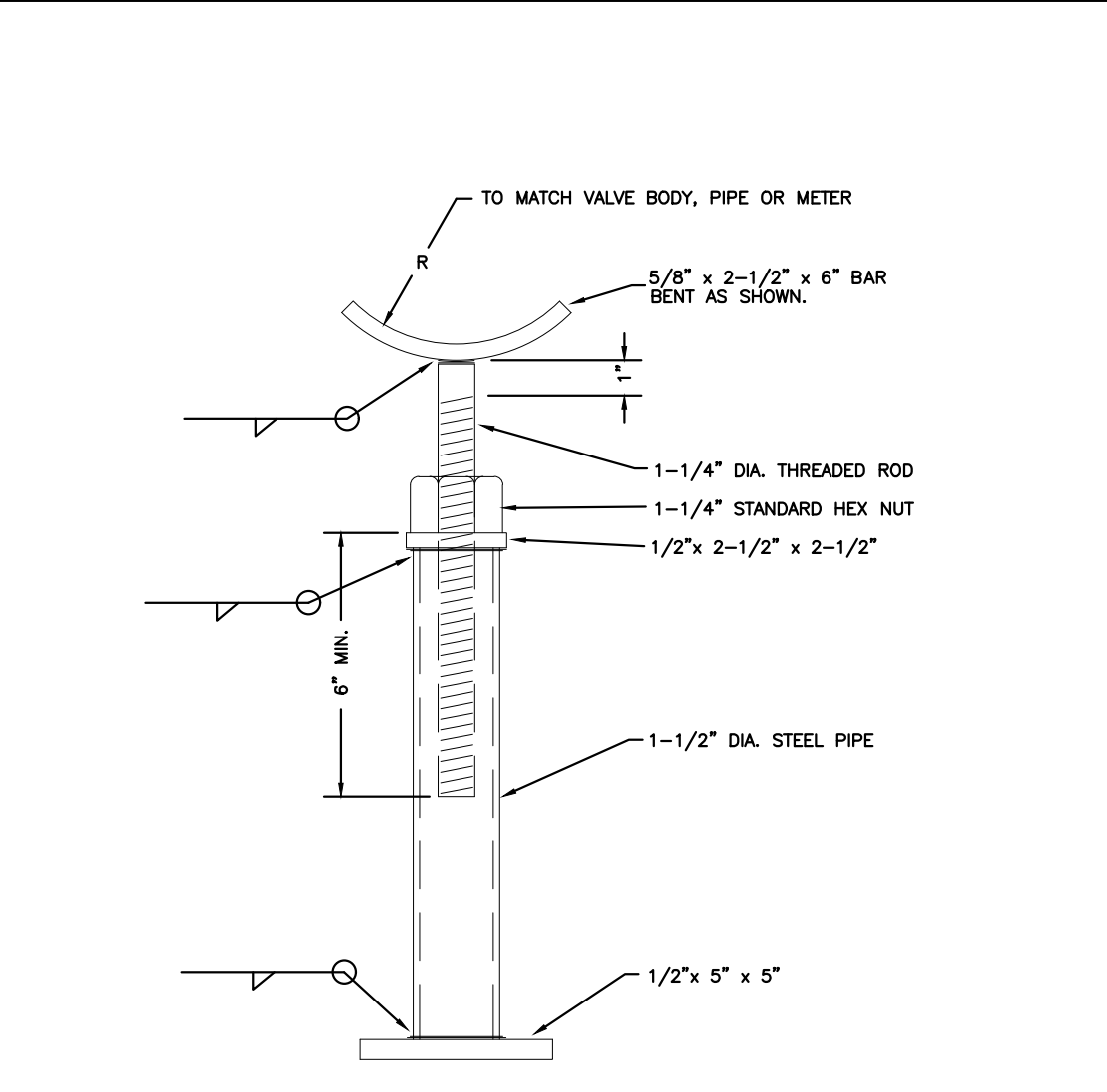
2000 REVISION SHEET 33



- Materials:**  
Valve box parts shall be made from gray cast iron, ASTM A48 Class 20A. Use of an aluminum alloy as a casting material is not acceptable.
- Approved Patterns:**  
Valve boxes shall be the three-piece adjustable screw type and the following two patterns are acceptable.
1. Tyler screw-type 6-inch cast iron valve box assembly series 6860 with No. 160 oval base.
  2. Clay and Bailey screw-type 6-inch cast iron valve box assembly No. P-108 with No. 160 large oval base.

STONEGATE VILLAGE METROPOLITAN DISTRICT	
VALVE BOX DETAIL	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

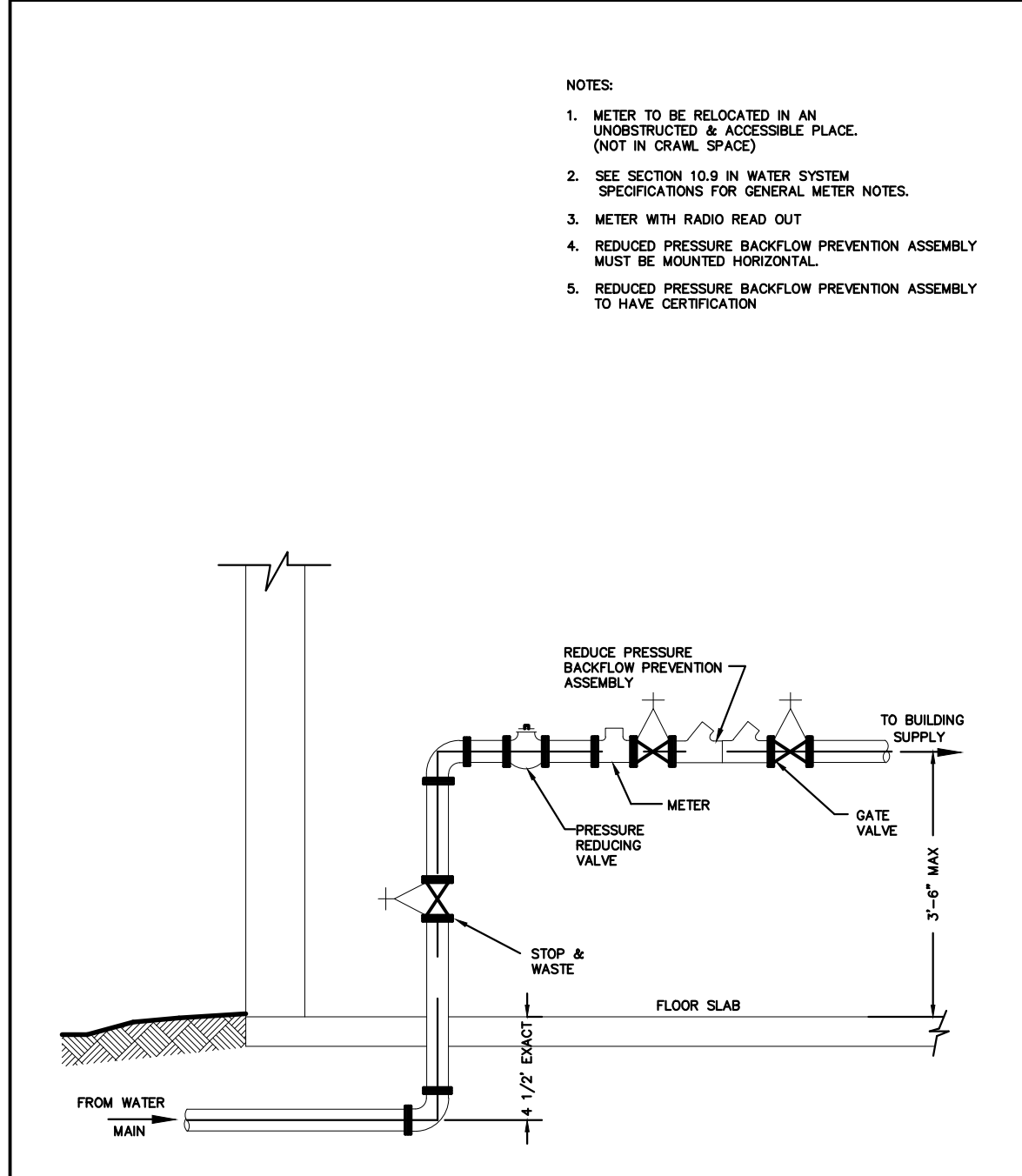
2000 REVISION SHEET 34



STONEGATE VILLAGE METROPOLITAN DISTRICT  
ADJUSTABLE STEEL PIPE VALVE SUPPORT

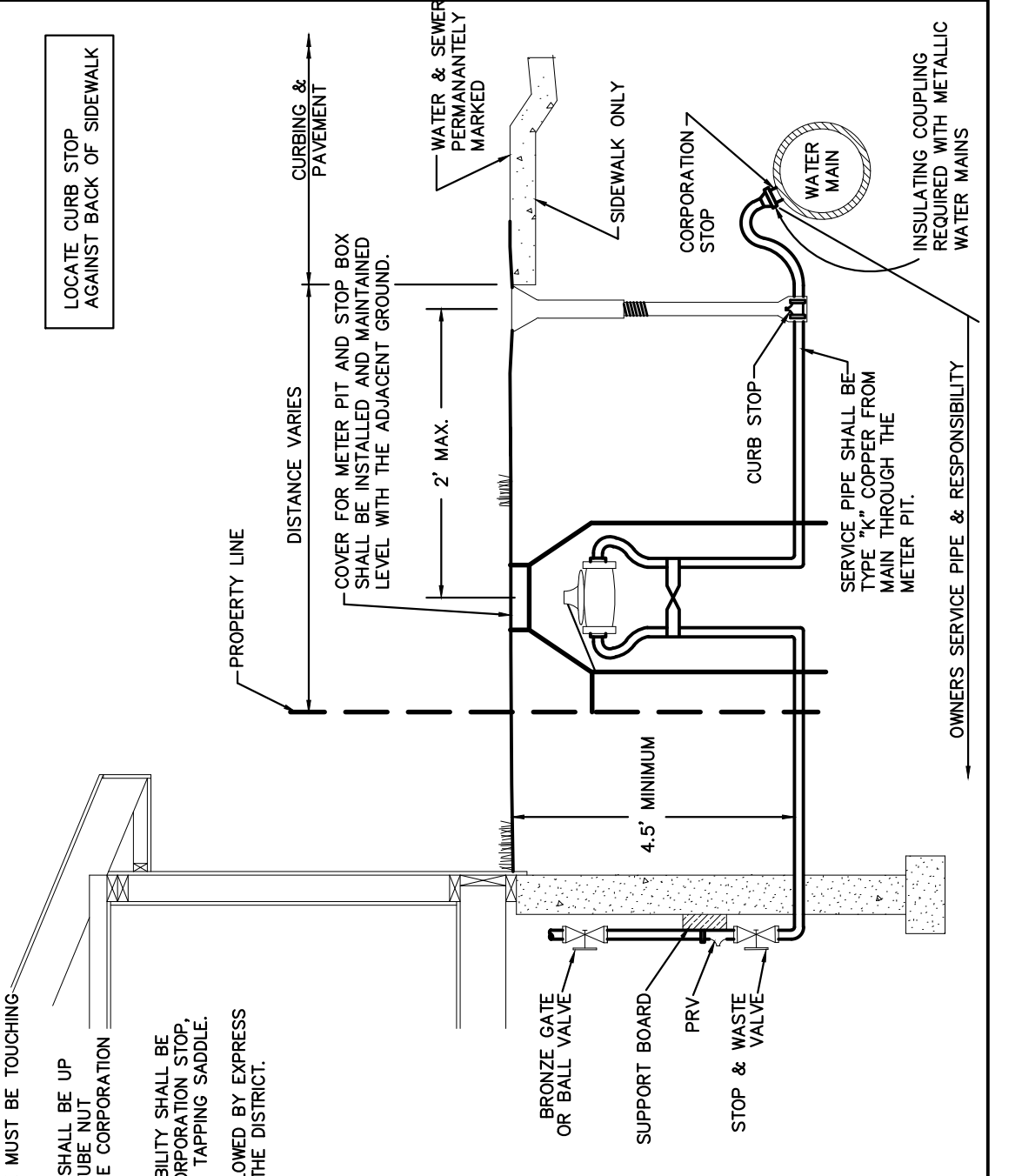
STONEGATE VILLAGE METROPOLITAN DISTRICT	
ADJUSTABLE STEEL PIPE VALVE SUPPORT	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

2000 REVISION SHEET 35



STONEGATE VILLAGE METROPOLITAN DISTRICT	
INSIDE COMMERCIAL METER INSTALLATION FOR 6" & SMALLER PIPE	
SCALE: NONE	DATE: 4/00
APPROVED: R/JG	DISTRICT ENGINEER

2000 REVISION SHEET 43



STONEGATE VILLAGE METROPOLITAN DISTRICT	
SERVICE LINE, STOP BOX AND OUTSIDE METER INSTALLATION	
SCALE: NONE	DATE: 9/2010
APPROVED: SB	DISTRICT ENGINEER

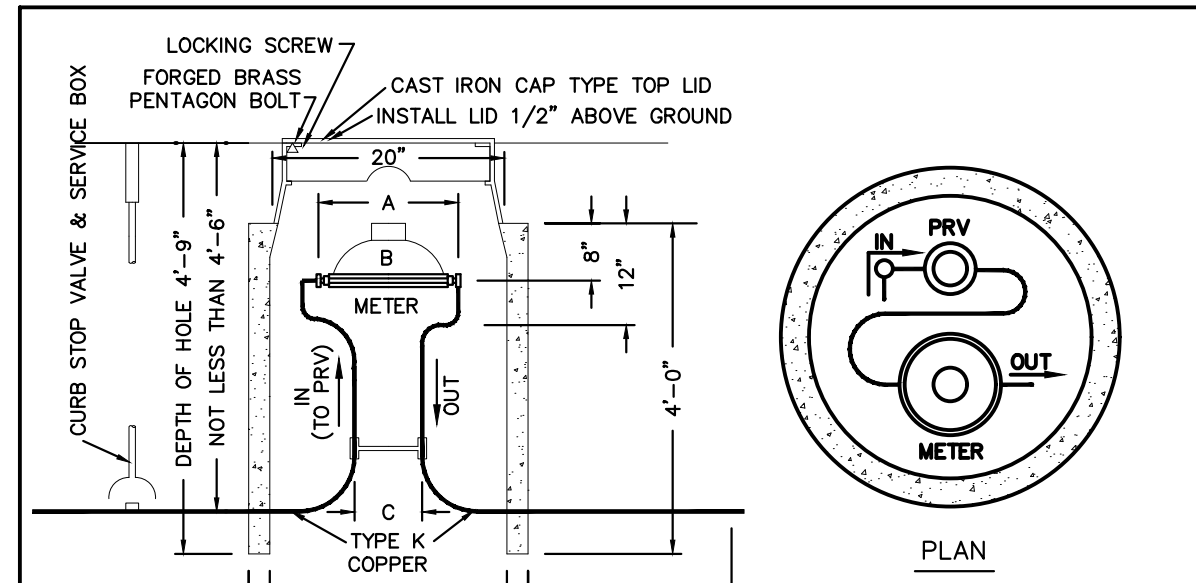
2000 REVISION SHEET 44

NO.	DATE	DESCRIPTION

**COMPARK VILLAGE SOUTH**  
WATER AND SANITARY  
PLANS  
STANDARD DETAILS - WATER



THIS AND ANY OTHER BLUEPRINTS, SPECIFICATIONS, CONTRACTS, AGREEMENTS, ORDINANCES, BY-LAWS, AND REGULATIONS, AND ANY OTHER DOCUMENTS, SHALL BE CONSIDERED TO BE PART OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DISTRICT AND ANY OTHER AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DISTRICT AND ANY OTHER AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DISTRICT AND ANY OTHER AGENCIES.



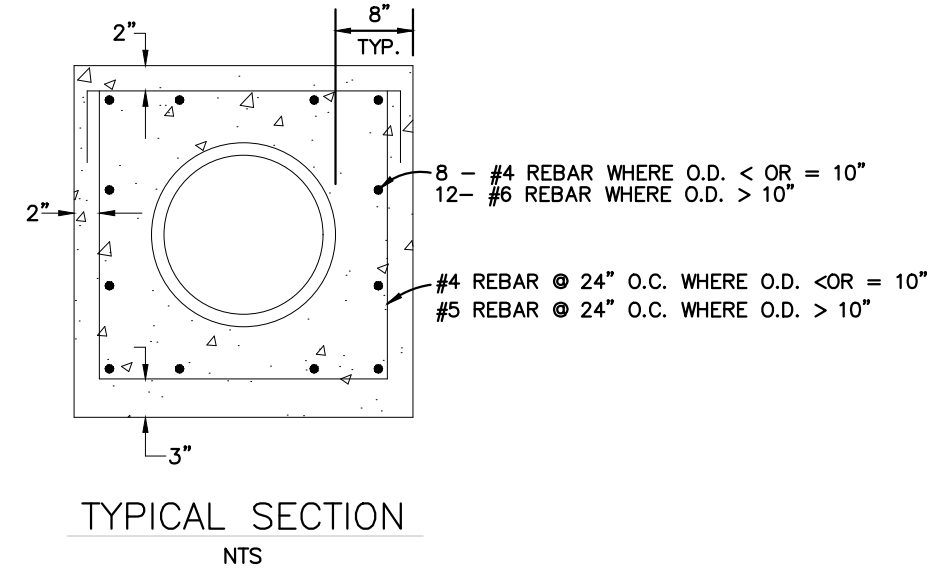
- GENERAL NOTES:**
- NOT FOR INSTALLATION IN ROADWAYS, OR PARKING AREAS.
  - IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER, OWNER MUST RAISE OR LOWER PIT WHEN SURFACE IS GRADED.
  - METER SETTING MUST BE INSPECTED BY THE DISTRICT BEFORE BACKFILLING.
  - LOCATION OF METER TO BE ESTABLISHED BY A DISTRICT REPRESENTATIVE.
  - NO CONCRETE FLOOR TO BE LAID IN METER PIT.
  - METER PIT SHALL BE CONSTRUCTED OF FOUR 12", OR ONE 12" AND ONE 36" RINGS. WALLS SHALL BE 2" THICK.
  - ADJUSTMENT RINGS SHALL BE 2", 3" 4" OR 6" IN HEIGHT AND SHALL BE INSERTED BETWEEN THE TOP TWO RINGS.
  - NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT WALL ON THE OUTLET SIDE.
  - LAWN SPRINKLER CONNECTION SHALL BE A MINIMUM OF FIVE FEET FROM THE METER PIT WALL ON THE OUTLET SIDE.
  - THIS DETAIL TO BE USED ONLY WITH EXPRESS PERMISSION OF THE DISTRICT.
  - THE FORD TANDEM COPPERSETTER TO HOLD A WATTS USB PRESSURE REGULATOR (PRV) JUST AHEAD OF THE WATER METER.
  - (JUMPER OR CHEATER) PIPES TO BE REMOVED BEFORE METER SET DATE.

METER SIZE	A	B	C
5/8" x 3/4"	12 5/8"	7 1/2"	4"
3/4"	14 1/4"	9 5/16"	5"
1"	17 1/4"	11 1/16"	6"

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**ALL OUTSIDE SETTING FOR 5/8" x 3/4", 3/4" & 1" METERS w/ PRV**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 45

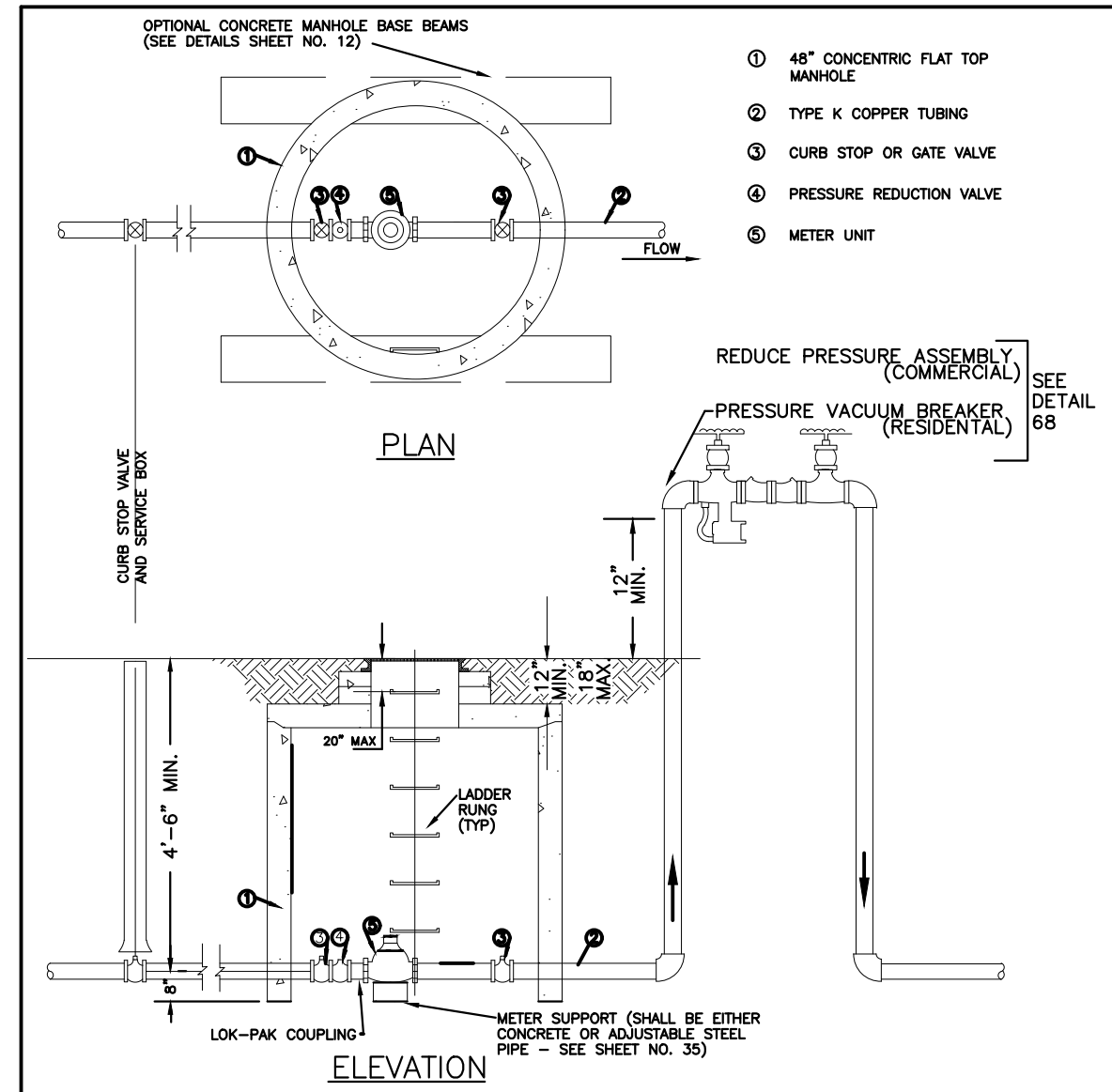


- NOTES:**
- ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE 1 PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-7% ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".
  - ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
  - ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.
  - THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**WATERLINE ENCASEMENT**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 48

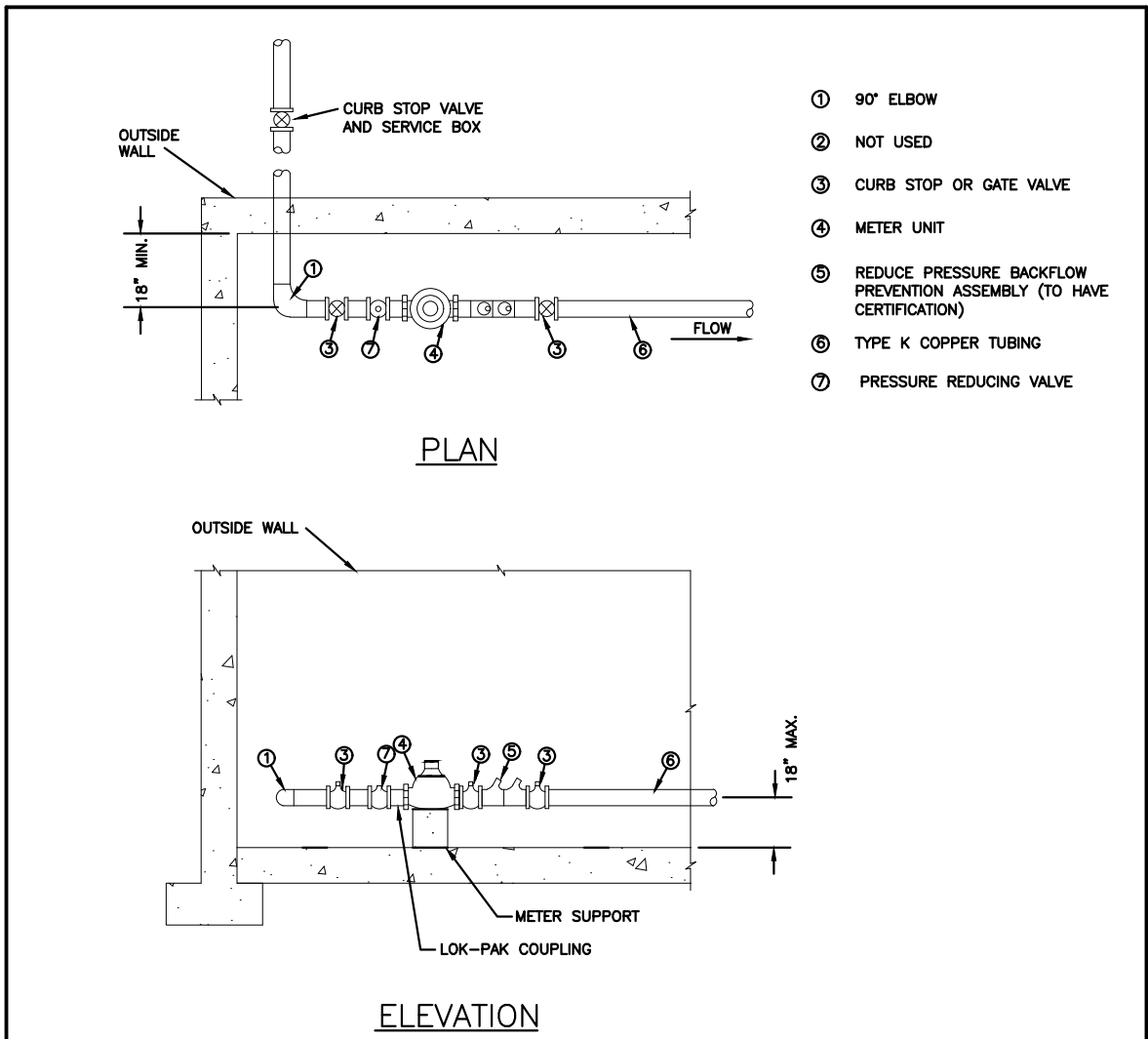


- NOTES:**
- MANHOLE BASE BEAMS SHALL BE REQUIRED FOR INSTALLATIONS IN DRIVEWAYS, OR PARKING AREAS.
  - 48" DIA. MANHOLE RING WILL ACCOMMODATE 1 1/2" AND 2" SPLIT BASE METERS.
  - JOINTS INSIDE METER VAULT SHALL BE EITHER THREADED OR SOLDERED WITH 95-5 TINANTIMONY SOLDER.
  - SEE SECTION 10.9, WATER SYSTEM SPECIFICATIONS FOR GENERAL METER NOTES.
  - NO CONCRETE TO BE LAID IN FLOOR OF METER M.H.
  - METER SHALL BE FLANGED WITH BRASS COMPANION FLANGES.
  - NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT ON THE OUTLET SIDE.
  - LADDER RINGS SHALL BE ON OPPOSITE SIDE OF BYPASS.
  - (JUMPER OR CHEATER) PIPES TO BE REMOVED BEFORE METER SET DATE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**OUTSIDE SETTING FOR 1 1/2" & 2" METER FOR IRRIGATION**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 49

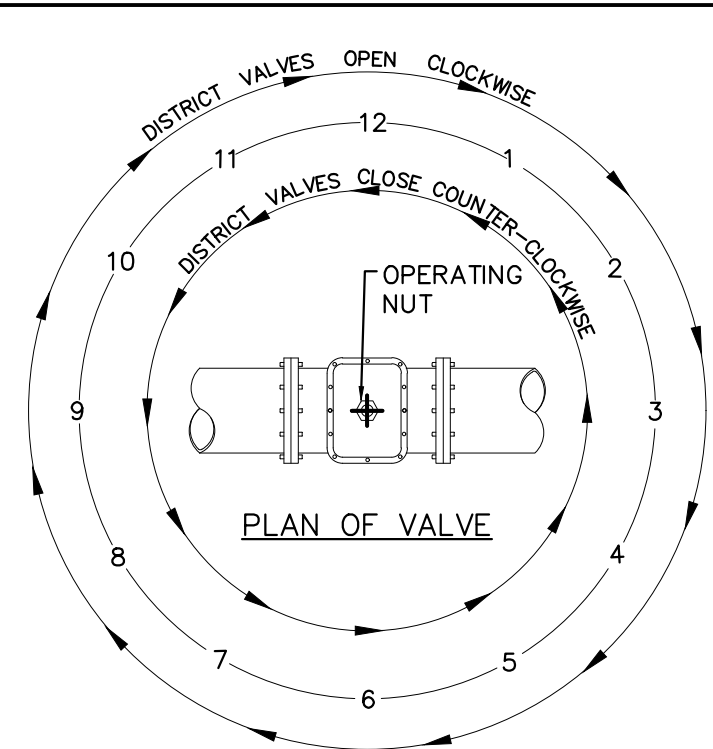


- NOTES:**
- PIPE JOINT SHALL BE THREADED OR SOLDERED WITH SILVER SOLDER.
  - INSTALLATION MUST ALLOW ACCESS FOR MAINTENANCE AND BE PROTECTED FROM FREEZING.
  - SEE SECTION 10.9, WATER SYSTEM SPECIFICATIONS FOR GENERAL METER NOTES.
  - COMPANION FLANGES SHALL BE BRASS.
  - METER SUPPORT SHALL BE EITHER CONCRETE OR ADJ. STEEL PIPE (SEE SHEET NO. 34)
  - THIS DETAIL TO BE USED ONLY WITH EXPRESS PERMISSION OF THE DISTRICT ENGINEER.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**INSIDE SETTING FOR 1 1/2" & 2" METER WITH CHECK VALVE**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 51



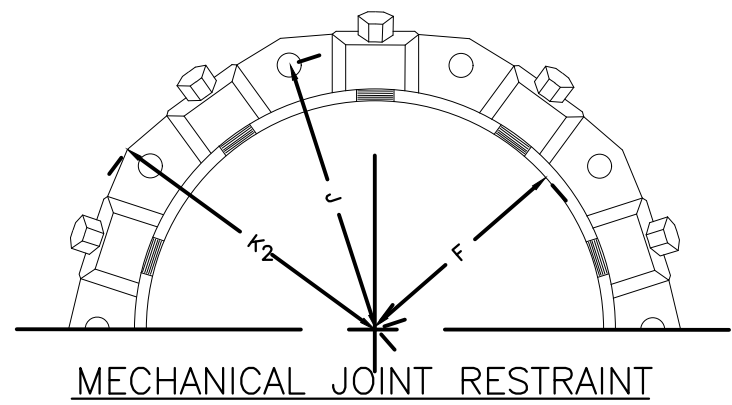
**NOTE:**  
 NORMALLY VALVES WITH A RED OPERATING NUT INDICATE A STANDARD DENVER VALVE.

**VALVE OPENING & CLOSING PROCEDURE**

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**VALVE OPERATION**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 61



**WEDGE DETAIL BOLT HOLE DETAIL**

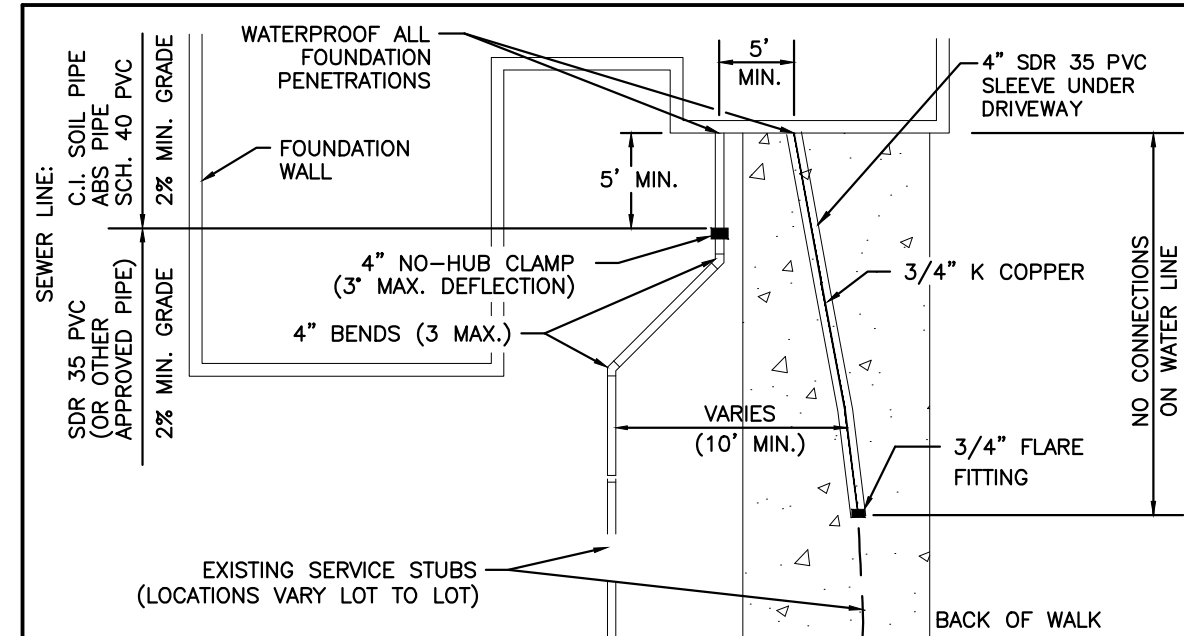
NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES
4"	2	2				
6"	6	3	11.12	9.5	7.00	0.88
8"	6	4	13.37	11.75	9.15	1.00
10"	8	6	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25
4"	4	2				
6"	6	3	11.12	9.5	7.00	0.88
8"	6	4	13.37	11.75	9.15	1.00
10"	8	6	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25

- NOTES:**
- REFER TO SHEET W-19 SECTION 6.10.
  - DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.

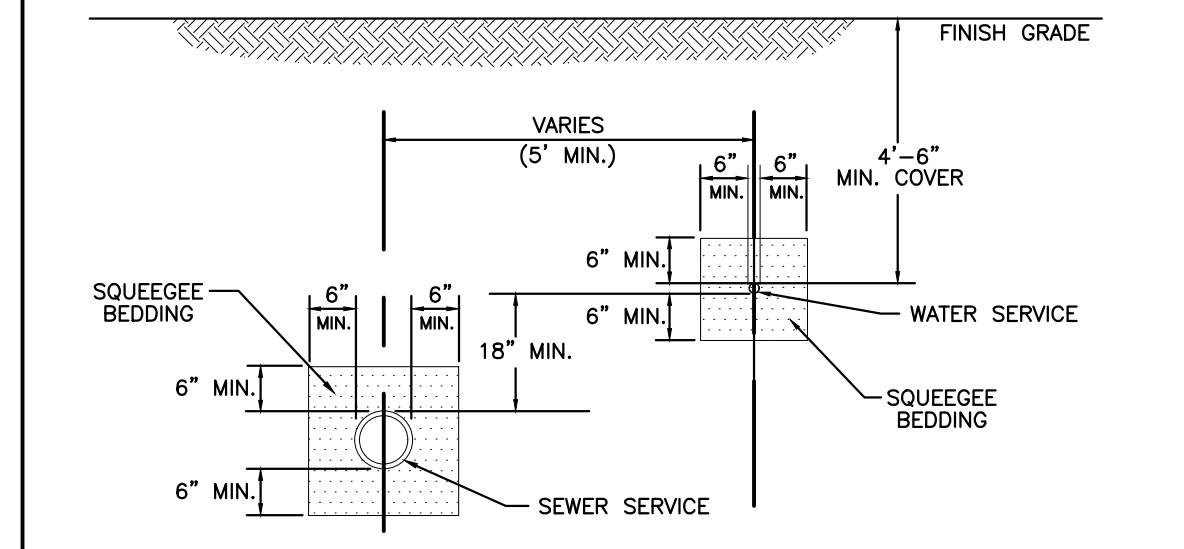
STONEGATE VILLAGE METROPOLITAN DISTRICT  
**MECHANICAL JOINT RESTRAINT DETAILS**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 65



**TYPICAL SERVICES PLAN VIEW**



**TYPICAL SERVICES SECTION**

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**TYPICAL WATER SERVICES**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 68

- INSPECTION POLICY:**
- ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT ENGINEER (303) 263-3699 AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
  - SERVICE INSPECTIONS WILL OCCUR BETWEEN 8:00 A.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
  - IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
  - SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
  - THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
  - ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

- INSTALLATION NOTES:**
- WATER**
- ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)
  - APPROVED BEDDING TO BE SQUEEGEE.
  - ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. A COUPLING MAY BE EITHER FLARED OR SILVER-SOLDERED. COMPRESSION COUPLINGS WILL NOT BE ALLOWED. MOVED CURB BOXES MUST BE INSPECTED BY PWSO PRIOR TO BURIAL.
  - A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 90°± ANGLE MAXIMUM, 45° ANGLE MINIMUM. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.
  - WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD.
  - STOPBOX MUST BE PLUMB AND CENTERED OVER NUT, AND MUST BE SET AT OR, SLIGHTLY ABOVE FINISHED GRADE.
  - STOPBOXES MUST BE SET AT BACK OF SIDEWALK ONLY (TOUCHING) NOT AT CURBS.
  - NO CRAWLSPACE MOUNTED METERS ALLOWED.
  - WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
  - NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
  - METER SHOULD BE LOCATED ON SAME SIDE OF HOUSE AS CURBSTOP IF POSSIBLE.
  - WATERLINES PASSING UNDER DRIVEWAYS NEED TO BE SLEEVED IN 4" P.V.C. AND HAVE EXPRESS PERMISSION OF THE DISTRICT.
  - YOKES SHOULD BE MOUNTED NO GREATER THAN 6 INCHES ABOVE BOTTOM SHUTOFF. EACH SERVICE MUST INCLUDE A STOP AND WASTE VALVE AND A PRESSURE REDUCING VALVE LOCATED WITHIN THE ABOVE REFERENCED 6 INCH SPACE.
  - NO SPLICES OR FLARED COUPLINGS ALLOWED ON WATERLINES. SILVER SOLDER JOINTS MUST BE USED IN MOVING STOPBOXES, AND SILVER SOLDER JOINT MUST BE INSPECTED BY SQUAD PRIOR TO BURIAL.
  - ONLY 3/4" (JUMPER OR CHEATER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER OR CHEATER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
  - ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SEWER SERVICE "Y" FOR WATER SERVICES

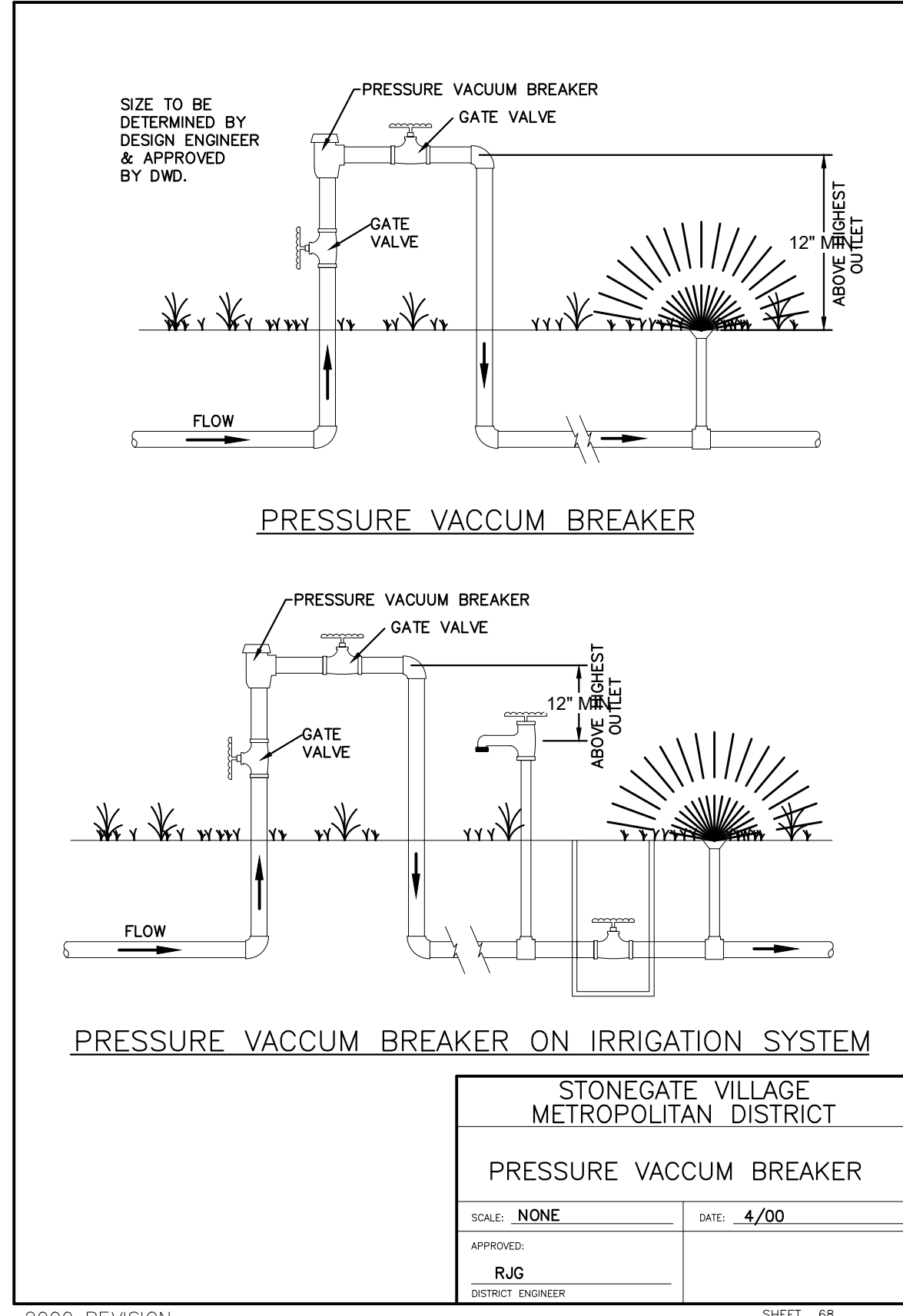
STONEGATE VILLAGE METROPOLITAN DISTRICT  
**DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES**

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

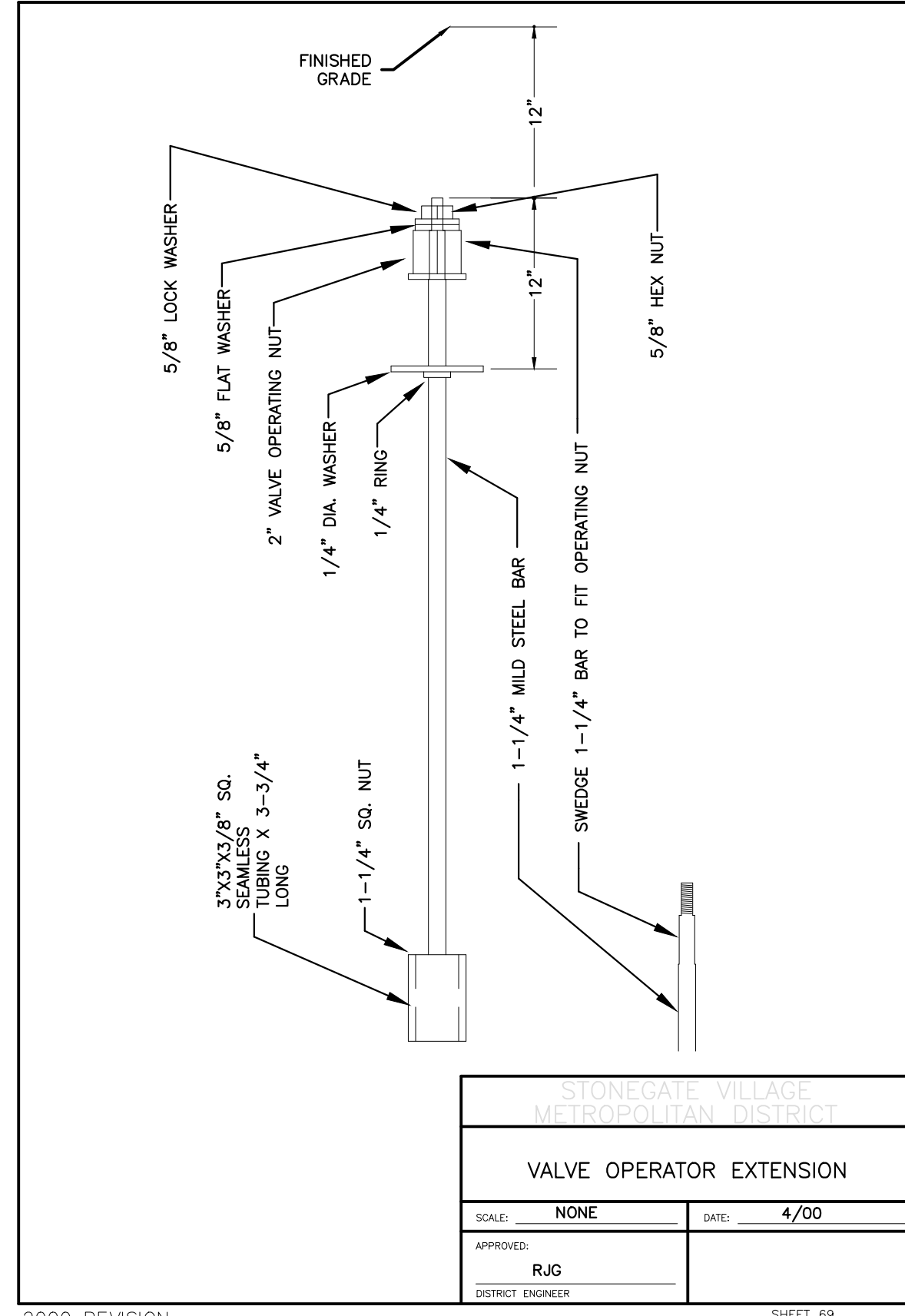
2000 REVISION SHEET 67

REV	REVISION DESCRIPTION	DATE	CHKD	APPD

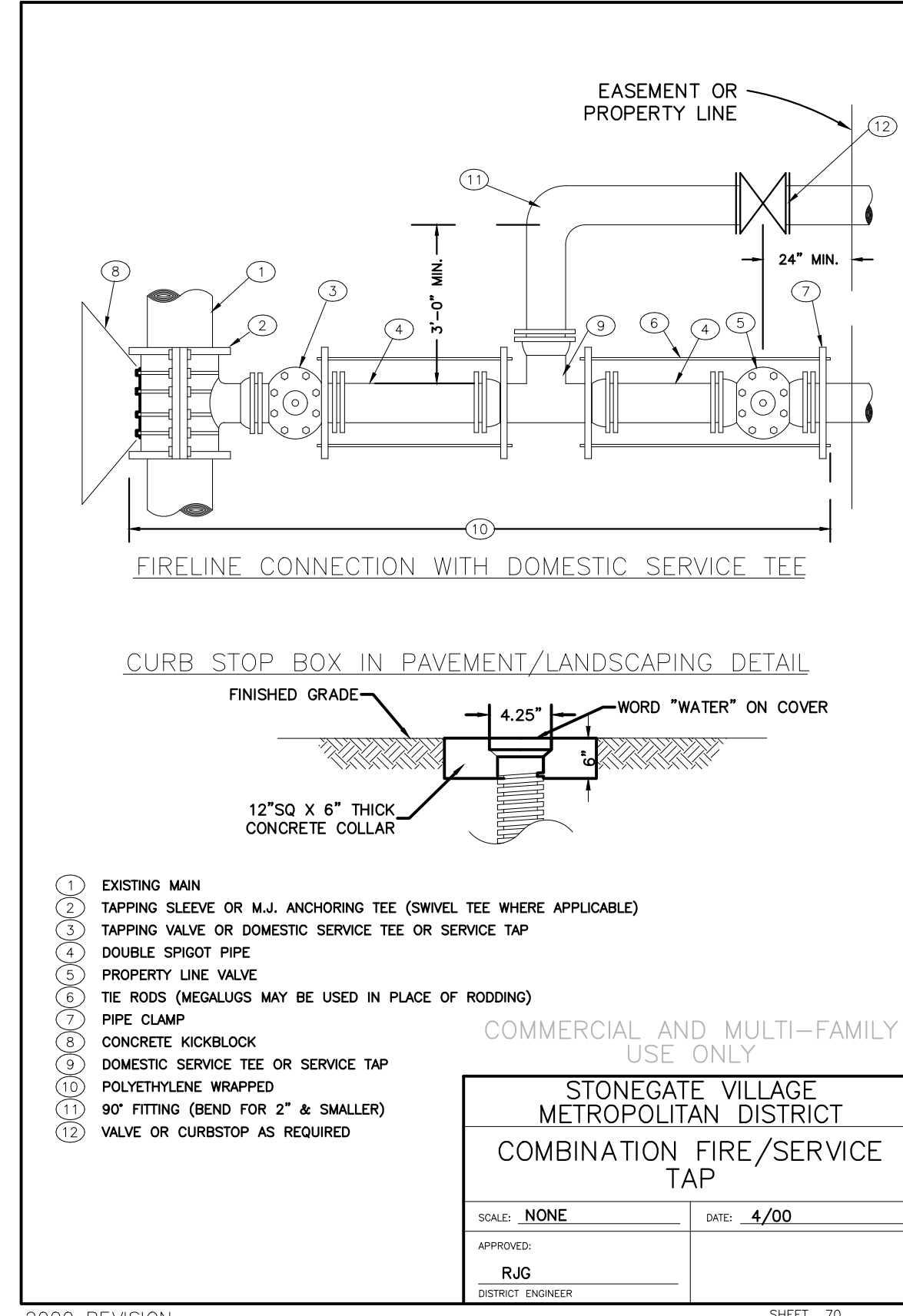
THE USE OF ANY OTHER ENGINEERING DESIGN OR INSTRUMENTATION IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK & COMPANY, INC. A SERVICE PROJECT. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE IN WHOLE OR IN PART OR FOR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. REUSE OR MODIFICATION OF ANY INSTRUMENTATION WITHOUT THE PROPER EXPRESSED WRITTEN CONSENT OF MERRICK & COMPANY IS STRICTLY PROHIBITED. SEE THE SPECIFICATIONS FOR THE PROPER USE OF THIS INSTRUMENTATION.



2000 REVISION SHEET 68



2000 REVISION SHEET 69

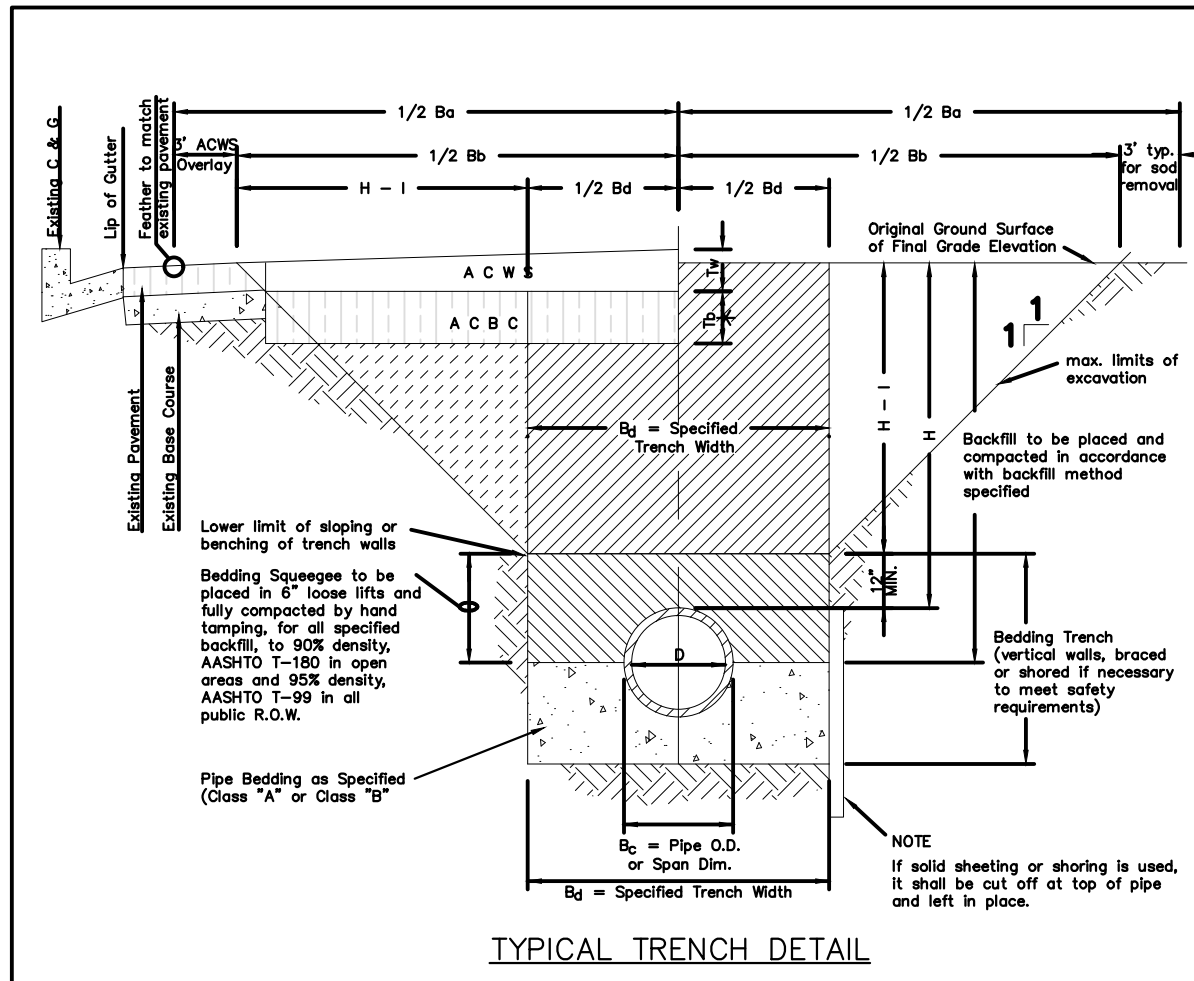


2000 REVISION SHEET 70

REV	REVISION DESCRIPTION	DATE	CHKD	APPD

**COMPARK VILLAGE SOUTH**  
 WATER AND SANITARY  
 PLANS  
**STANDARD DETAILS - WATER**

ISSUED FOR REVIEW  
 FOR AND ON BEHALF OF MERRICK & COMPANY



**TYPICAL TRENCH DETAIL**

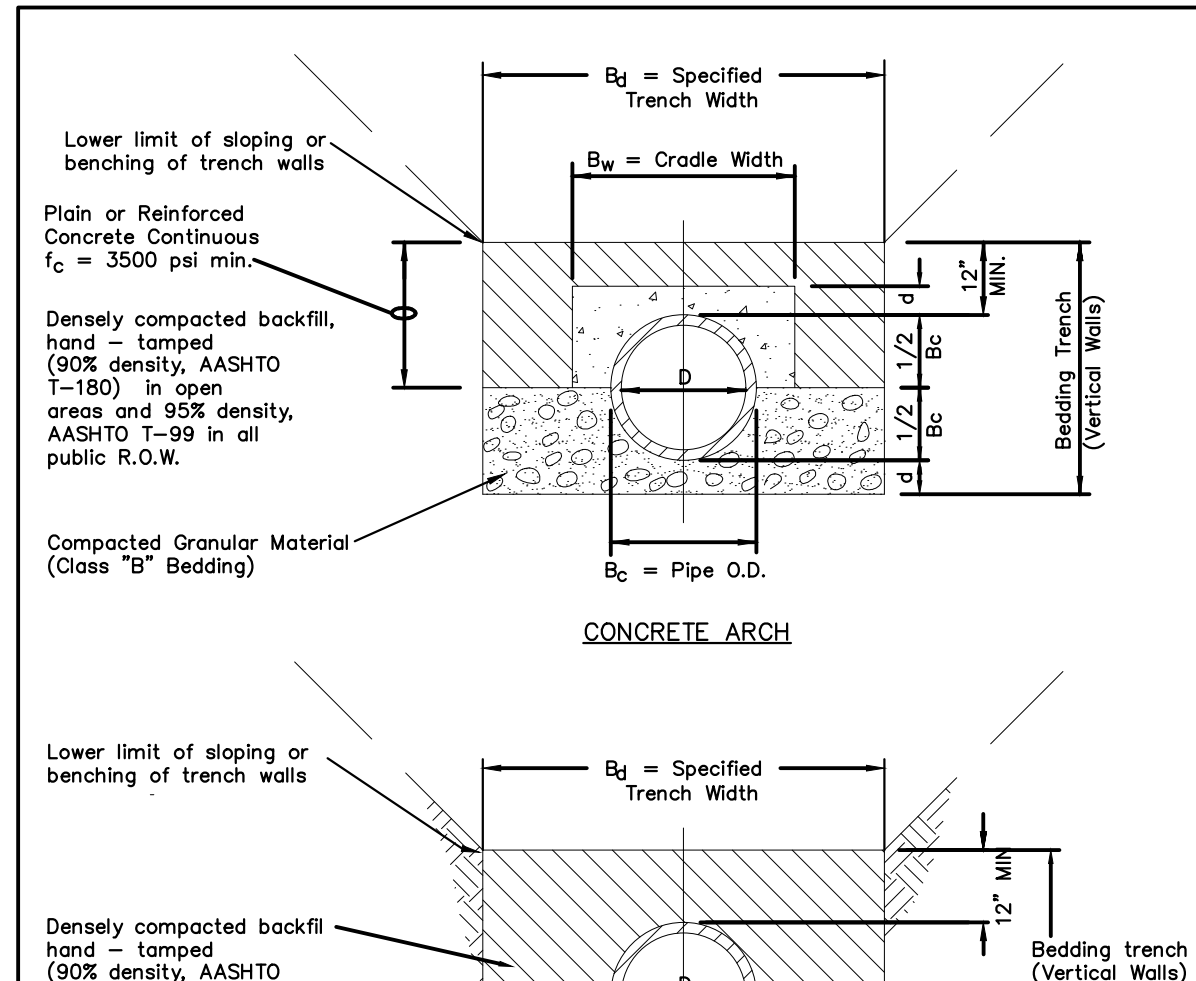
**NOTES:**

- Sloping or benching of trench side walls, where permitted shall be in accordance with applicable Federal, State and Local agency regulations.
- Trench shall be brooded and shored as necessary to afford safe working conditions or to protect adjacent utilities, structures, etc. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutter, utilities, structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.
- If dimension "B<sub>2</sub>" is ≤ 5', then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt paving, B<sub>2</sub> if B<sub>2</sub> shall then be based upon this section only.

**ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE**

STREET WIDTH	ASPHALTIC BASE COURSE (T <sub>2</sub> )	ASPHALTIC WEARING SURFACE (T <sub>3</sub> )	TOTAL THICKNESS (T <sub>2</sub> + T <sub>3</sub> )
UP TO 36'	4"	2"	6"
36' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
WIDER THAN 48'	6"	3"	9"

**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
SEWER TRENCHING AND BEDDING TRENCH DETAIL - CLASS "A"  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER



**Concrete Arch**

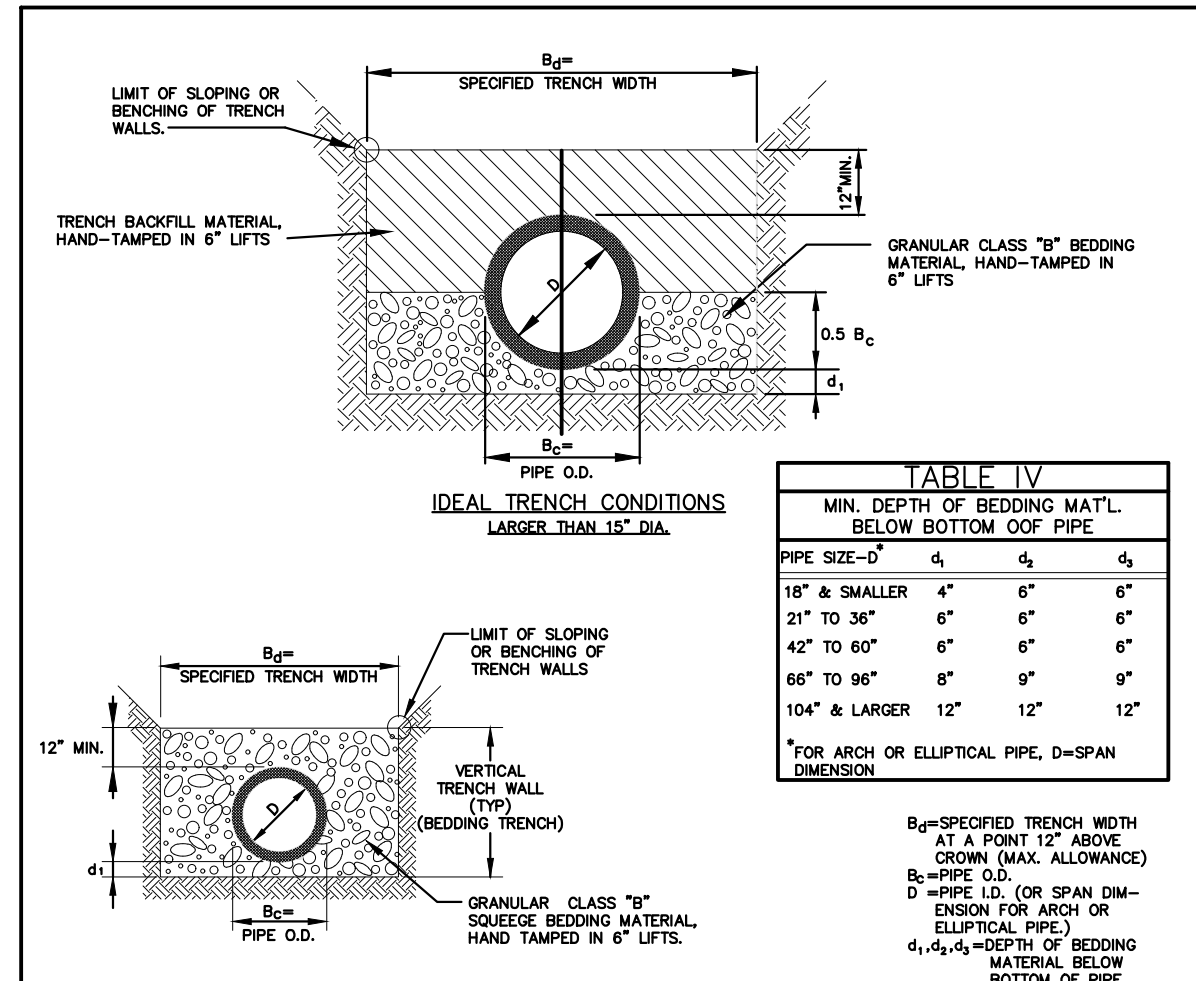
**NOTES:**

The Design Engineer shall be responsible for structural design of the concrete cradle and/or concrete arch.

**TABLE III**

NOMINAL DIAMETER (D)	MINIMUM THICKNESS (t)	MIN. WIDTH OF CRADLE (B <sub>2</sub> )
18" & smaller	4"	B <sub>2</sub> + 8"
21" to 24"	6"	B <sub>2</sub> + 8"
27" to 33"	8"	B <sub>2</sub> + 8"
36" to 42"	10"	1.25 B <sub>2</sub>
48" & larger	1/4 D	1.25 B <sub>2</sub>

**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "A"  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER



**IDEAL TRENCH CONDITIONS**

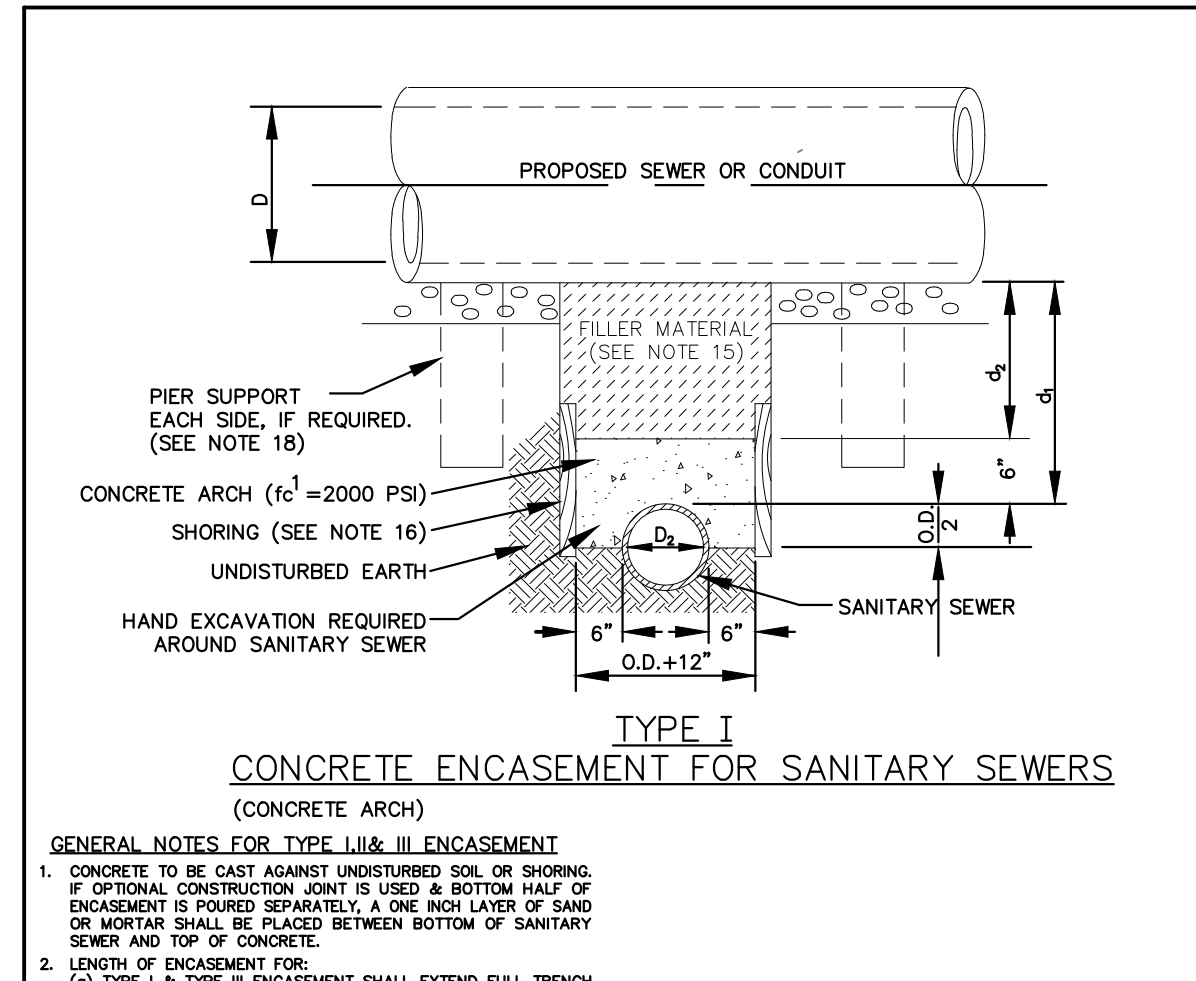
**TABLE IV**

PIPE SIZE - D	MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE	MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE	MIN. DEPTH OF BEDDING MAT'L. BELOW BOTTOM OF PIPE
18" & smaller	4"	6"	6"
21" to 36"	6"	6"	6"
42" to 60"	6"	6"	6"
66" to 96"	8"	9"	9"
104" & larger	12"	12"	12"

**GENERAL NOTES:**

- 1.1 BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPOUT JOINTS.
- 1.2 SUBURBAN PIPE TO BE AN APPROVED PERFORMED PIPE CONFORMING TO APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS.
- 1.3 BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-100 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.

**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
TRENCHING AND BEDDING DETAIL - CLASS "B"  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

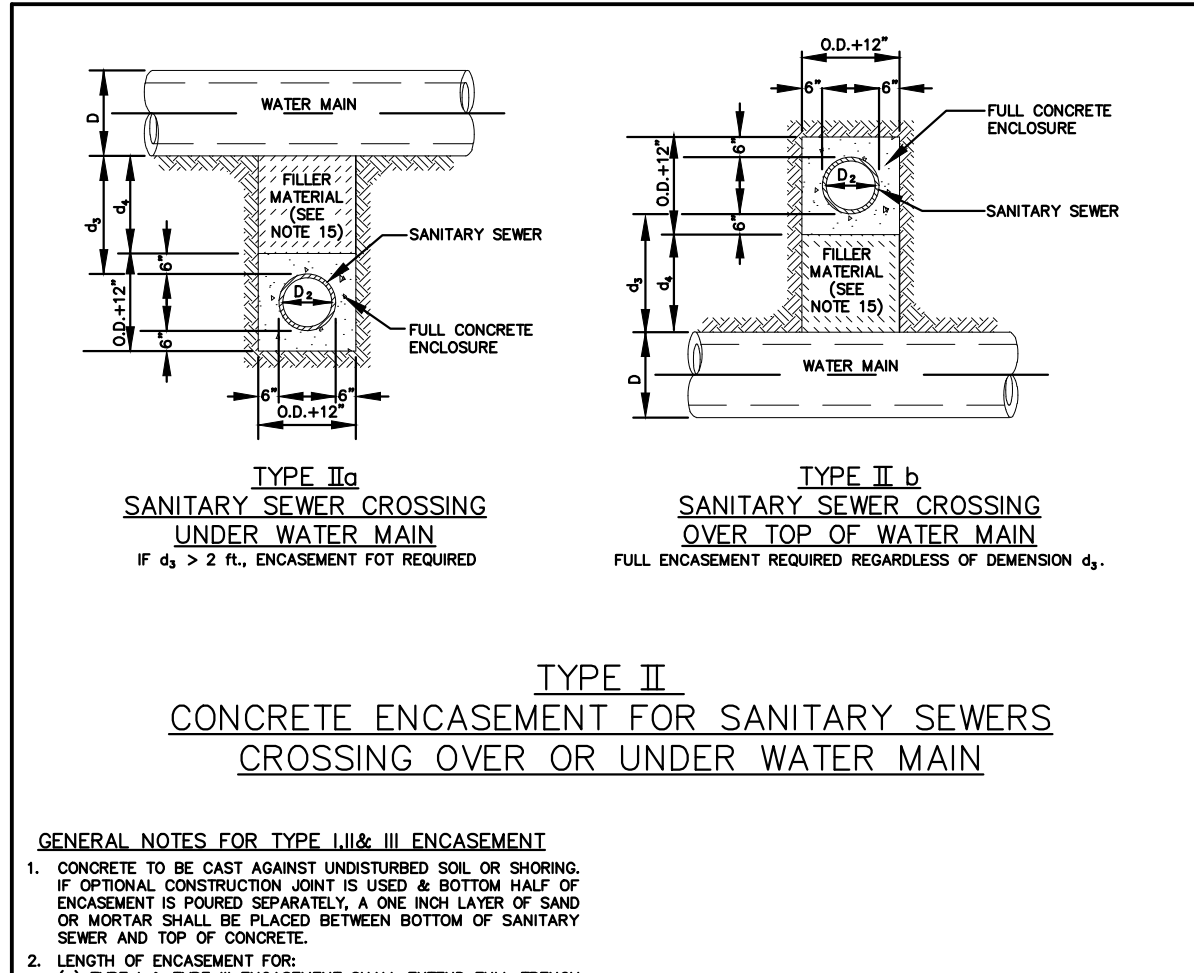


**TYPE I CONCRETE ENCASEMENT FOR SANITARY SEWERS**

**GENERAL NOTES FOR TYPE I, II & III ENCASEMENT**

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR: (a) TYPE I & II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT. (b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I & II ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS: (a) TYPE I OR TYPE II IF  $d \leq 18"$  ( $d \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (b) TYPE III ENCASEMENT SHALL BE REQUIRED FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (c) TYPE III ENCASEMENT SHALL BE REQUIRED FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY. (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE: (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_2 \leq 4"$ . (b) COMPACTED CLASS "B" BEDDING IF  $d_2 \leq 4"$  &  $d_1 > 6"$  (IF  $d_2 > 6"$  FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
CONCRETE ENCASEMENT TYPE I  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

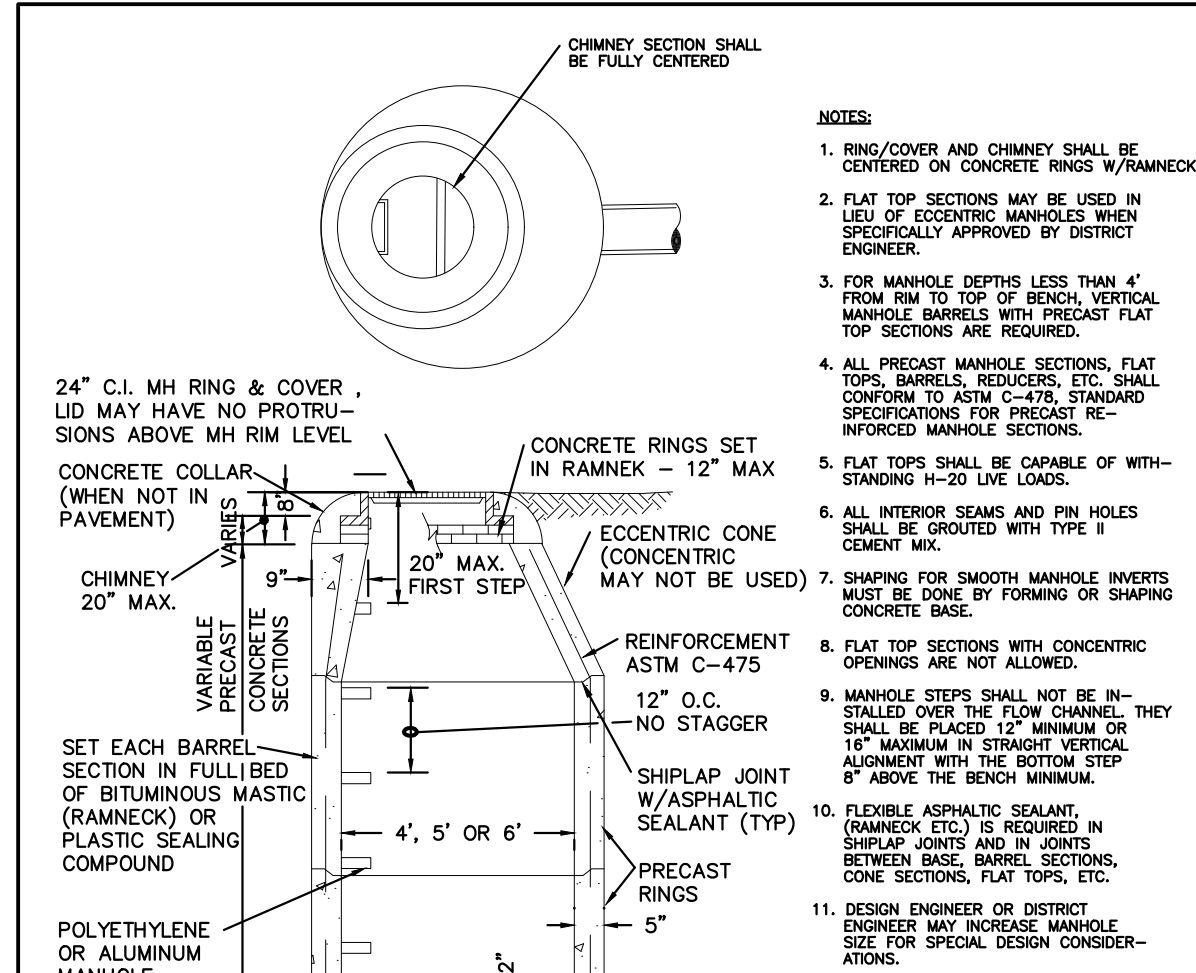


**TYPE II CONCRETE ENCASEMENT FOR SANITARY SEWERS CROSSING OVER OR UNDER WATER MAIN**

**GENERAL NOTES FOR TYPE I, II & III ENCASEMENT**

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR: (a) TYPE I & II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT. (b) TYPE III ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I, II & III ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I, II OR III ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS: (a) TYPE I OR TYPE II IF  $d \leq 18"$  ( $d \leq 12"$ ) EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (b) TYPE III ENCASEMENT SHALL BE REQUIRED FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (c) TYPE III ENCASEMENT SHALL BE REQUIRED FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS. (d) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY. (e) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE: (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_2 \leq 4"$ . (b) COMPACTED CLASS "B" BEDDING IF  $d_2 \leq 4"$  &  $d_1 > 6"$  (IF  $d_2 > 6"$  FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

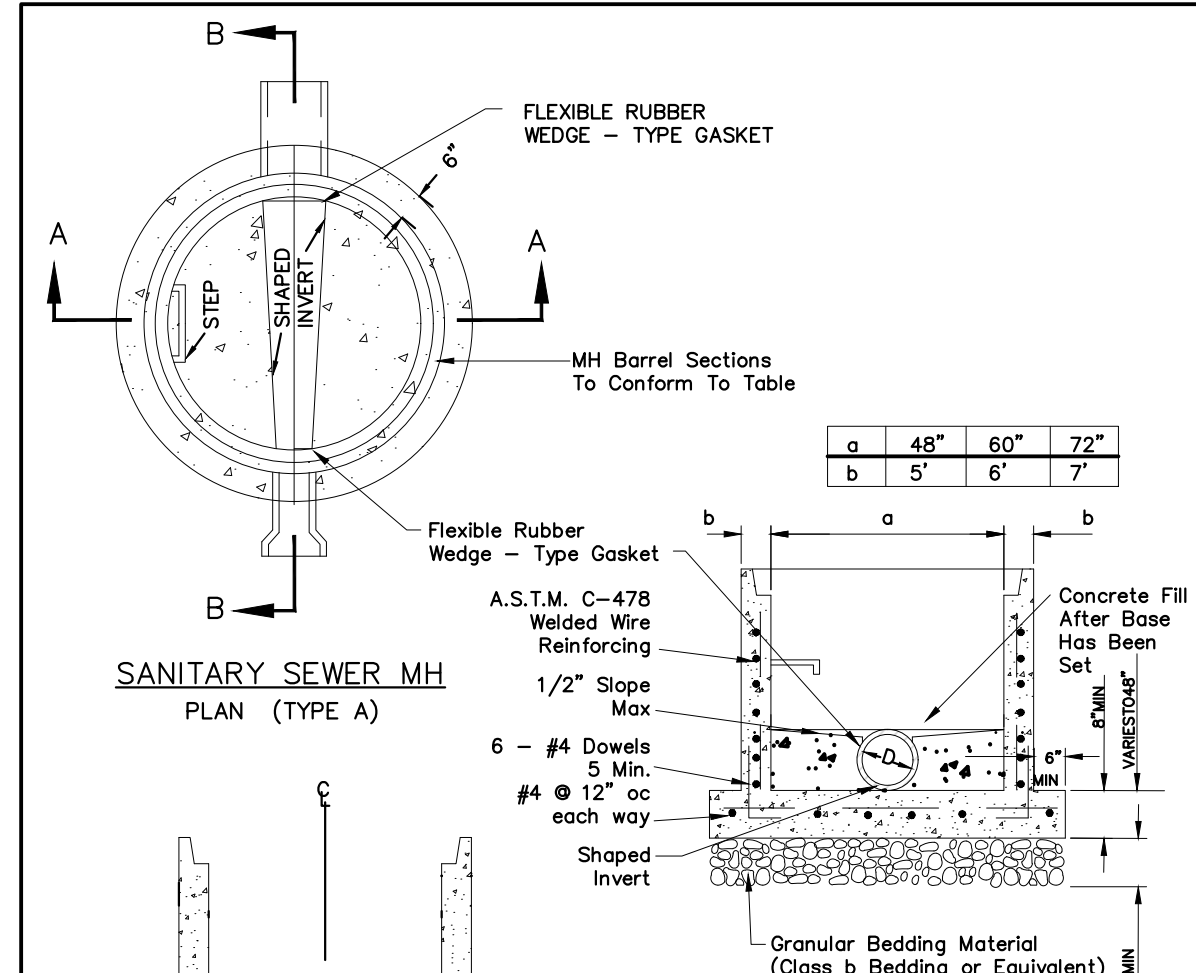
**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
CONCRETE ENCASEMENT TYPE II  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER



**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
PRECAST MANHOLE ECCENTRIC CONE  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

**TABLE III**

PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN



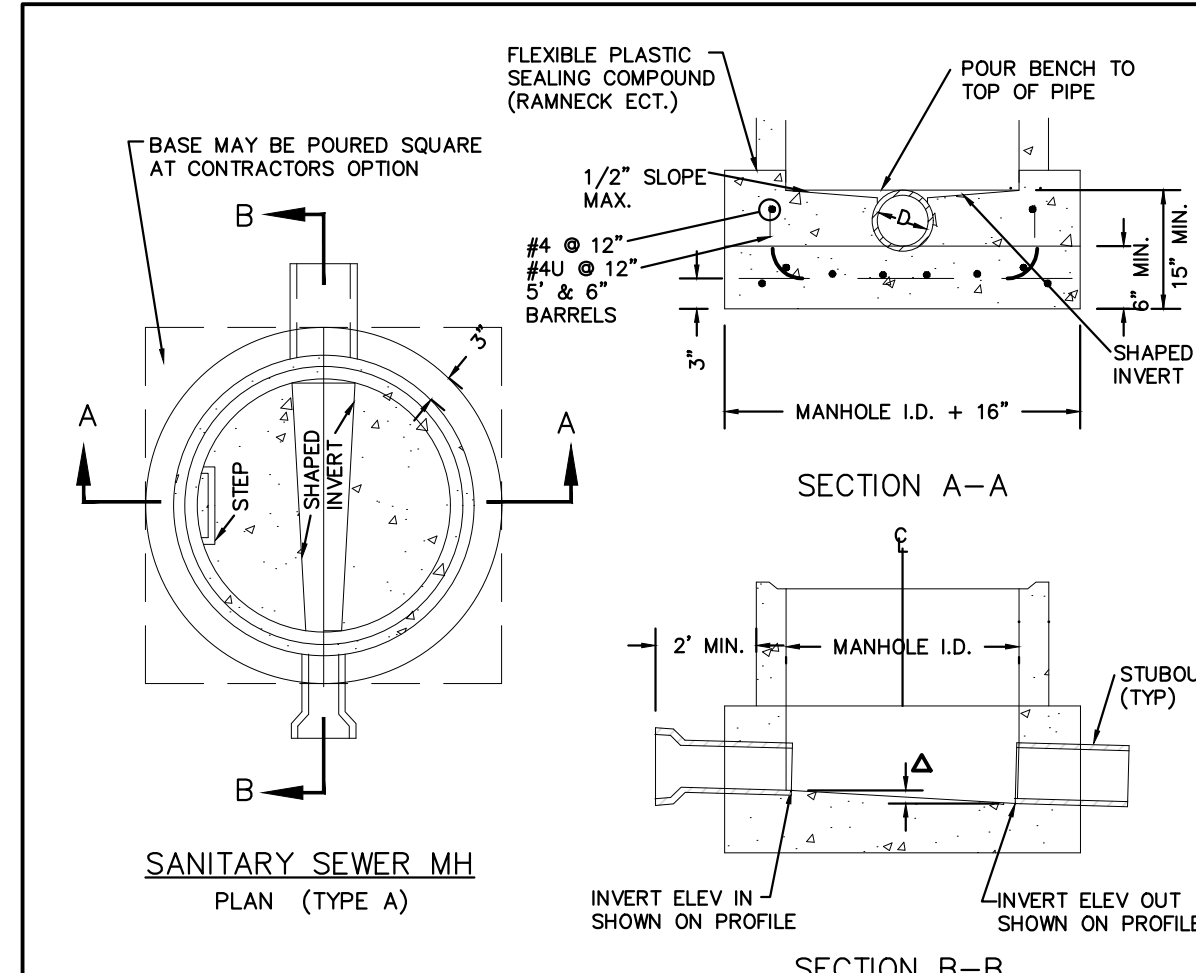
**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
PRECAST MANHOLE BASE DETAIL  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

**SECTION A-A**

**SECTION B-B**

**NOTES:**

- Base slab shall be cast monolithic with the bottom riser section.
- All pipe openings shall be formed with an approved flexible rubber wedge - type gasket conforming to A.S.T.M. C-443 which shall be capable of providing a water - tight joint with zero leakage around the installed pipe(s).
- Manhole steps installed in bottom riser section shall conform to Division Standards and Specifications.
- Shiplap joint on manhole barrel riser shall conform to Division Standards and Specifications. However, on an alternate a special adapter section may be provided at the first joint in the bottom riser section which will adapt the precast base section to Division standard manhole riser sections.
- Grouted flow channels and inverts shall conform to Division Standards and Specifications. Manhole barrel min. diameter shall conform to table. Precast barrel sections to conform to A.S.T.M. C-478. All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
- Stub outs shall extend 2'-0" min past manhole O.D. and be satisfactorily plugged.
- 2.10 Max. slope of bench = 1/2".
- 2.11  $\Delta$  Invert drop thru Manhole (if  $\Delta > 18"$ , outside drop MH req'd)



**STONEGATE VILLAGE METROPOLITAN DISTRICT**  
CAST-IN-PLACE MANHOLE BASE DETAIL  
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

**SECTION A-A**

**SECTION B-B**

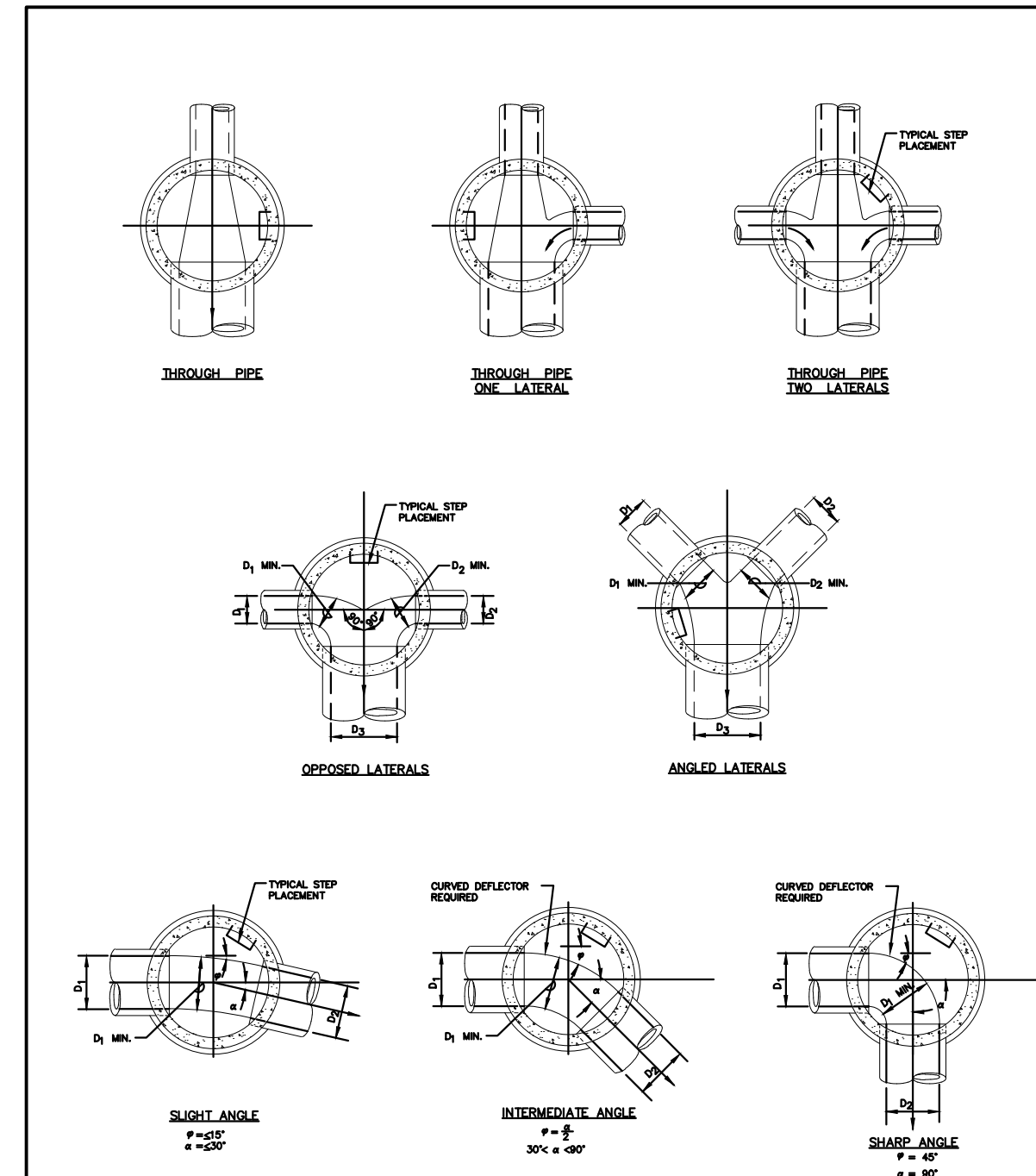
**NOTES:**

- Manhole barrel min. thickness to be 5".
- Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
- The manhole steps shall conform to District Standards and Specifications.
- Precast sections to conform to A.S.T.M C-478.
- All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
- Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
- Reinforcing in base required for manhole.
- Maximum slope of bench = 1/2".
- $\Delta$  = invert drop thru MH (if  $\Delta > 18"$ , outside drop MH required).

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A	INITIAL SUBMITTAL TO SWMD	4/1/2022		

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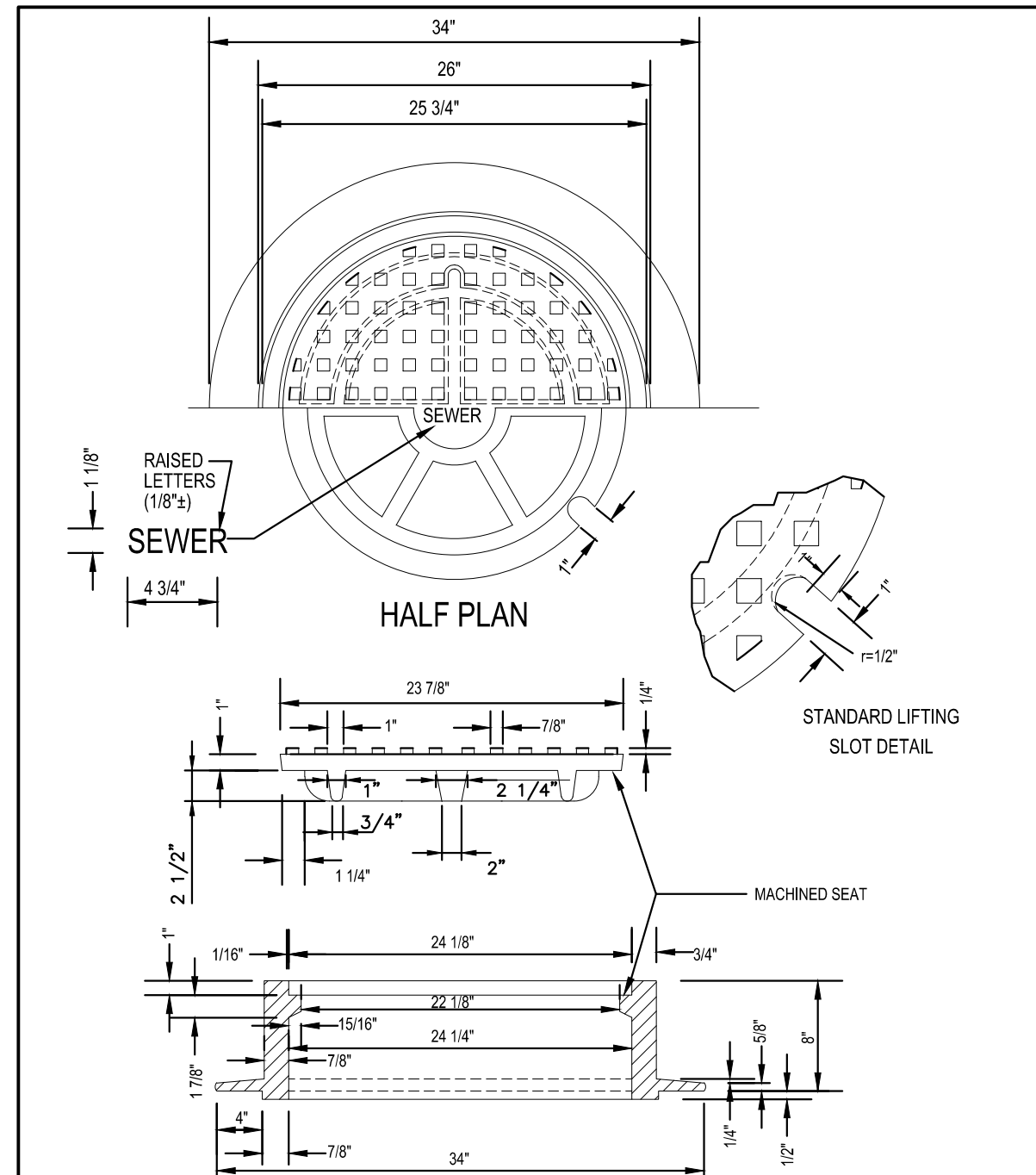


STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
TYPICAL BASE  
CHANNELIZATION DETAILS

SCALE: NONE DATE: 4/00

APPROVED: RJD DISTRICT ENGINEER

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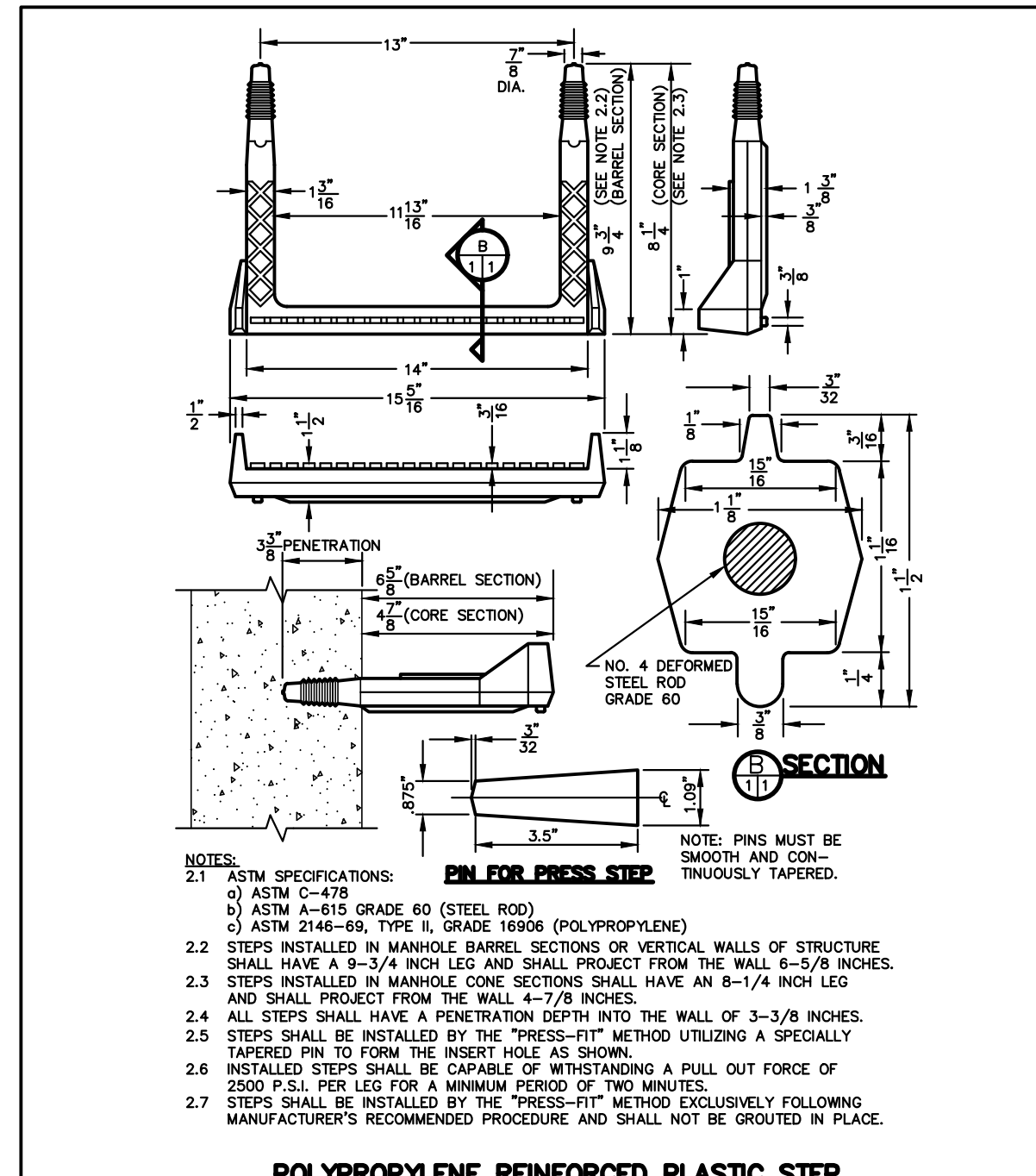


STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
24\"/>

SCALE: NONE DATE: 4/00

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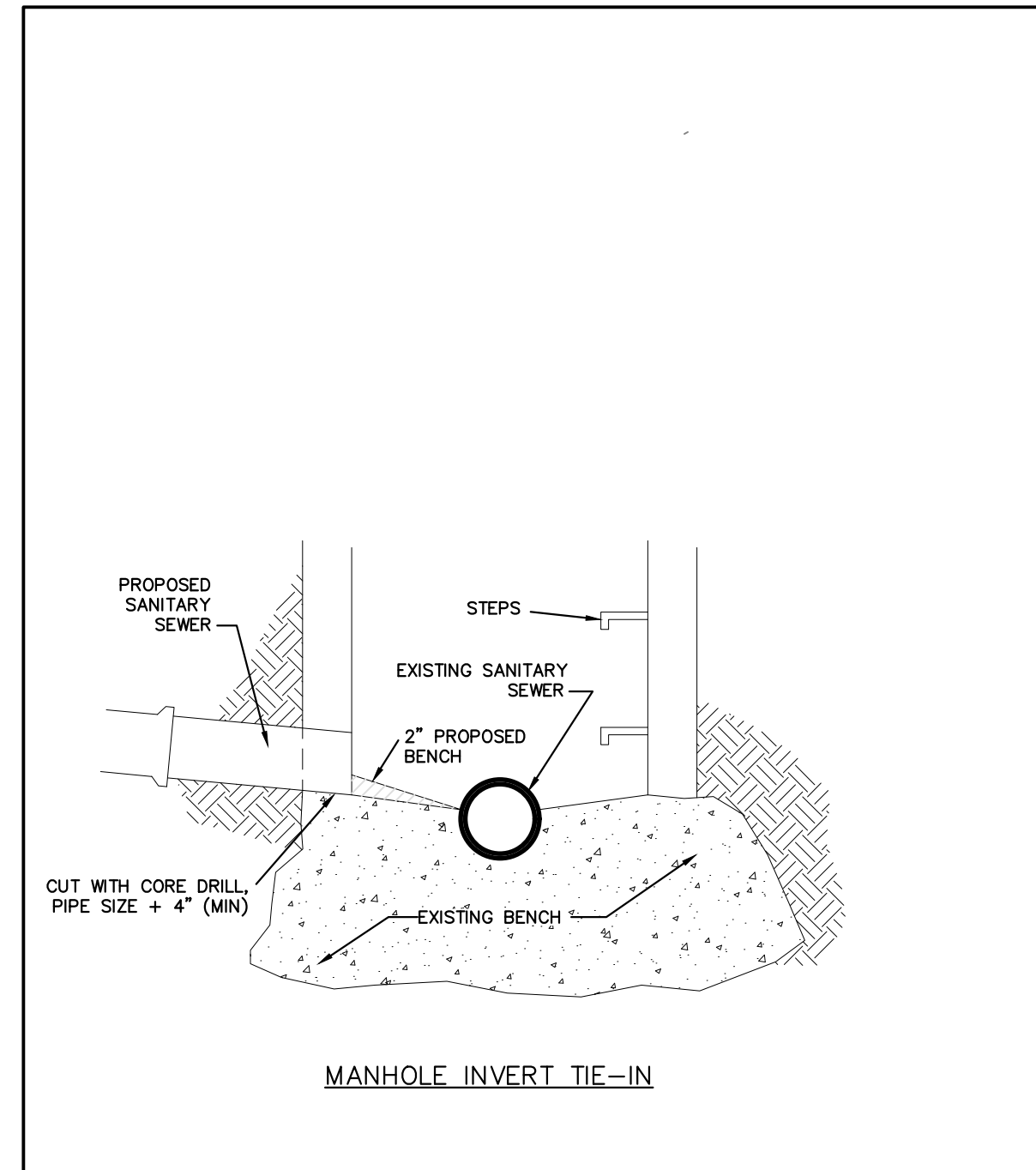


STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
POLYPROPYLENE REINFORCED  
PLASTIC MANHOLE STEP

SCALE: NONE DATE: 4/00

APPROVED: RJD DISTRICT ENGINEER

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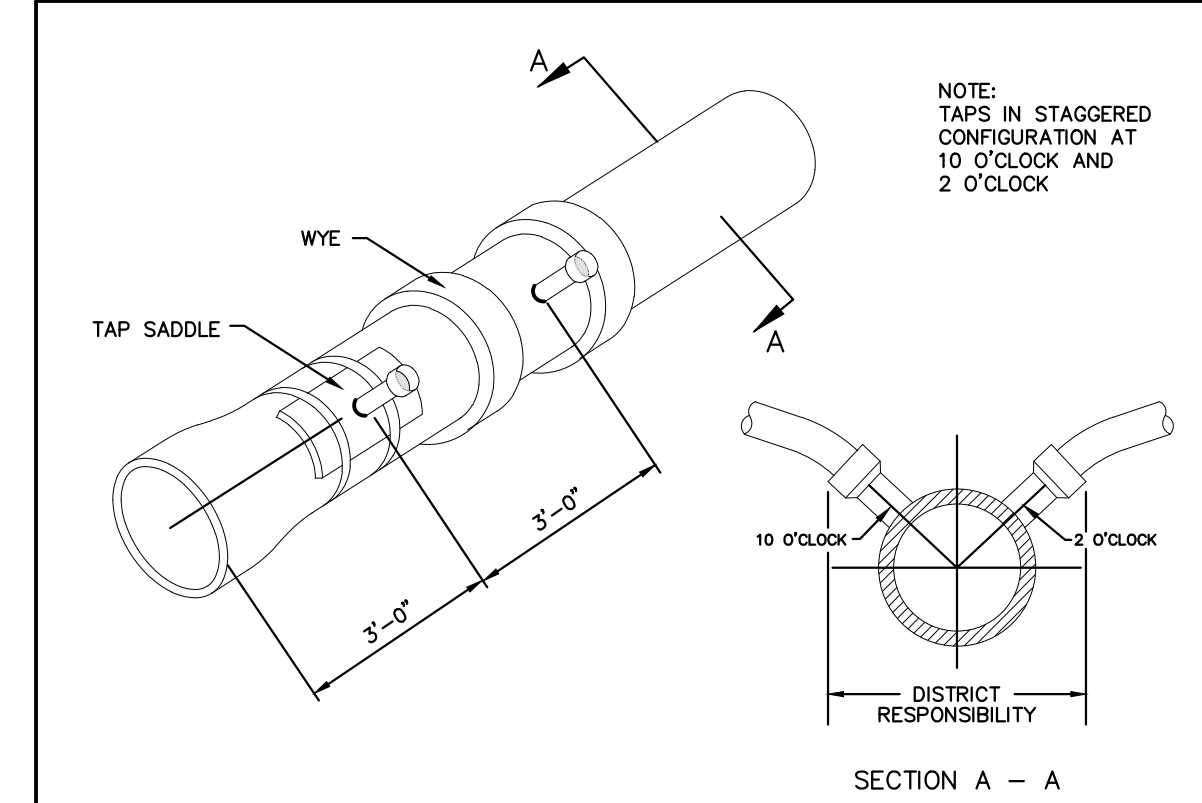


STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
MANHOLE INVERT  
TIE-IN DETAIL

SCALE: NONE DATE: 4/00

APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 22

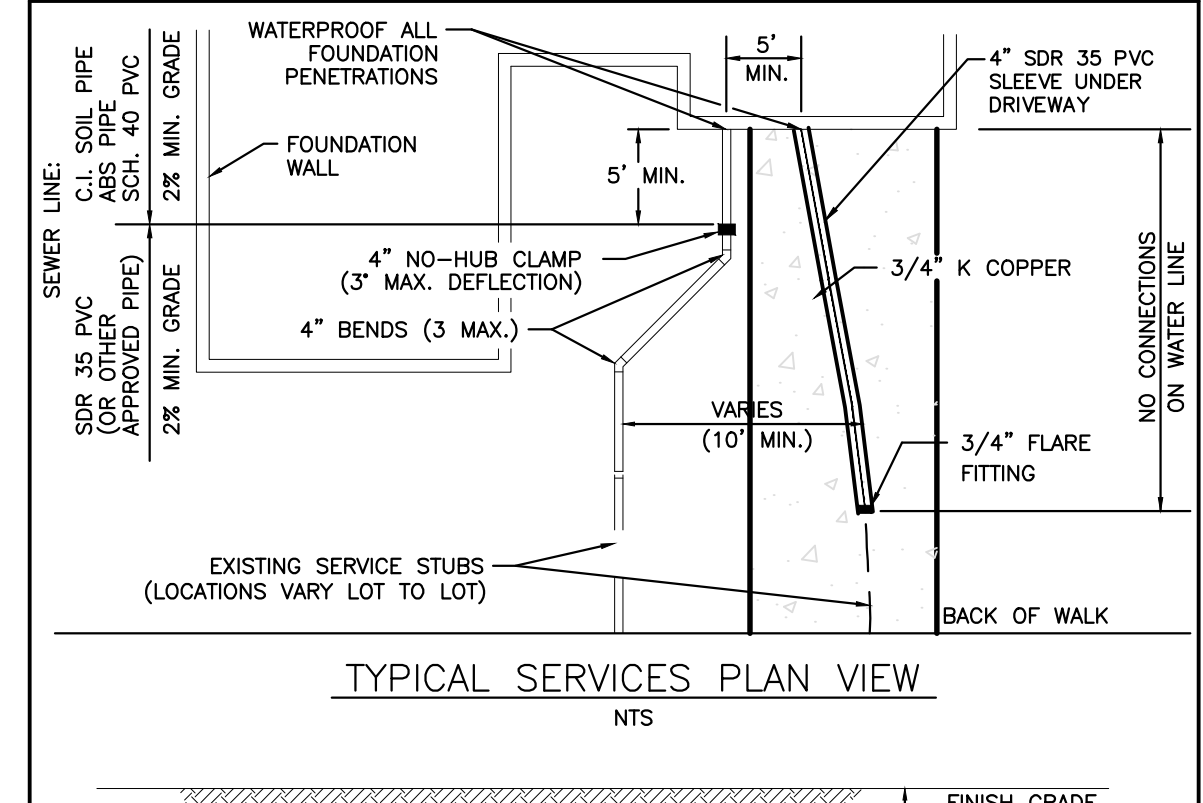


STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
DOMESTIC SEWER  
TAPPING DETAIL

SCALE: NONE DATE: 4/00

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STONEGATE VILLAGE  
METROPOLITAN DISTRICT  
TYPICAL SEWER SERVICES

SCALE: NONE DATE: 4/00

APPROVED: RJD DISTRICT ENGINEER

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INSPECTION POLICY:

- ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT ENGINEER'S OFFICE (303) 263-3699 AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
- SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 4:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
- IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
- SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
- THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
- ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

INSTALLATION NOTES:  
SEWER

- ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND CAST IRON CLASS 22 SOIL PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
- NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3\"/>

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