

# MT. ALTO - WATER TRANSMISSION MAIN

PREPARED FOR:  
**CITY OF ROME, GEORGIA**  
**WATER AND SEWER DIVISION**

PREPARED BY:



**INSITE ENGINEERING**

INSITE ENGINEERING, LLC.

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 RESIDENTIAL

CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER TRANSMISSION MAIN**  
 CITY OF ROME, GEORGIA  
 WATER AND SEWER DIVISION



PROJECT INFO:

INSITE JOB No. 16127.00  
 PLOTTED: 3/1/18  
 ISSUED FOR BIDDING



THIS SHEET CONTAINS:

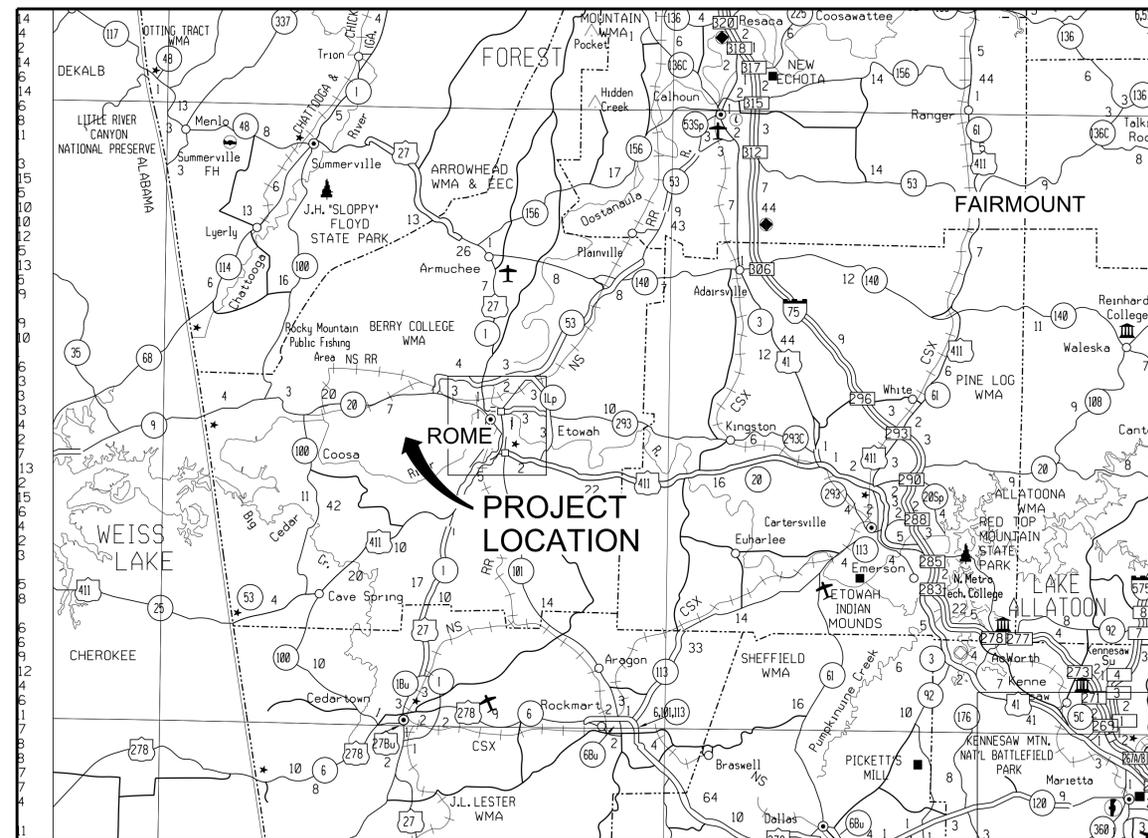
COVER SHEET, SITE LOCATION, AND DRAWING INDEX

SCALE: NONE  
 SHEET 1 OF 20

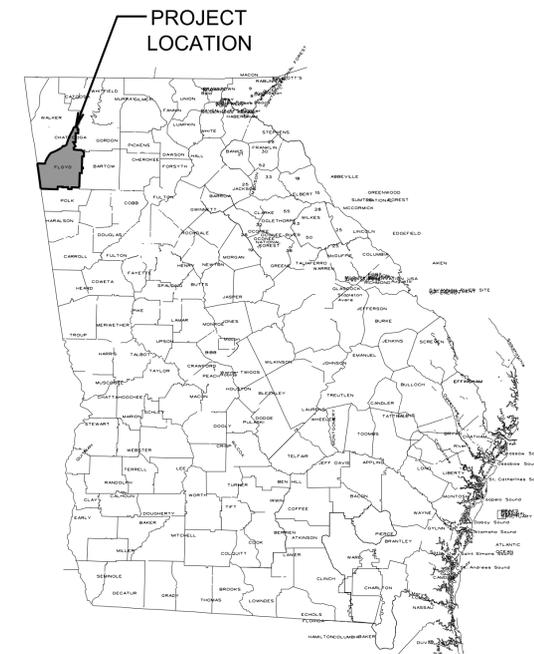
**GN-1**

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**LOCATION MAP**  
 SCALE: NONE



**COUNTY LOCATION**  
 SCALE: NONE

**ABBREVIATIONS**

ACQ'D	ACQUIRED
AC	ACRE
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION
AVE	AVENUE
BM	BENCH MARK
BLDG	BUILDING
BLVD	BOULEVARD
CIP	CAST IRON PIPE
CL	CENTER LINE
CL	CLASS
CONC	CONCRETE
COR	CORNER
CFS	CUBIC FEET PER SECOND
CY	CUBIC YARD
C & G	CURB AND GUTTER
Q	DESIGN FLOW
DIST	DISTANCE
DBL	DOUBLE
Da	DRAINAGE AREA
DI	DUCTILE IRON PIPE
ESMT	EASEMENT
EL	ELEVATION
F	FLOW LINE
FPS	FEET PER SECOND
GAL	GALLON
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
HDWL	HEADWALL
HWEL	HEADWATER ELEVATION
HP	HIGH POINT
HWL	HIGH WATER LEVEL
HORIZ	HORIZONTAL
INV	INVERT
JCT	JUNCTION
JB	JUNCTION BOX
LF	LINEAR FEET
LP	LOW POINT
MB	MAIL BOX
MH	MANHOLE
MP	MILEPOST
MGD	MILLION GALLONS PER DAY
NWL	NORMAL WATER LEVEL
N	NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
POT	POINT ON TANGENT
LB	POUND
P	PROPERTY LINE
RR	RAILROAD
R	RANGE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RD	ROAD
SS	SANITARY SEWER
SEC	SECTION
SHLDR	SHOULDER
SD	SIDE DRAIN
SY	SQUARE YARD
STA	STATION
ST	STREET
TBM	TEMPORARY BENCH MARK
T	TOWNSHIP
VERT	VERTICAL
VLF	VERTICAL FEET
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENT
VCP	VITRIFIED CLAY PIPE
WL	WATER LEVEL
	WATER MAIN

**STANDARD LEGEND**

**EXISTING      PROPOSED**

		SIDEWALK
		UNPAVED ROAD OR DRIVEWAY
		PAVED ROAD OR DRIVEWAY
		PAVED ROAD WITH GUTTER
		DRAIN WITH HEADWALL (SIZE AND TYPE STRUCTURE NOTED)
		EXISTING BRIDGE, BOX CULVERT, OR STORM DRAIN (SIZE AND TYPE STRUCTURE NOTED)
		WALK BRIDGE
		RAILROAD TRACK SINGLE
		RAILROAD TRACK DOUBLE
		RAILROAD MILEPOST
		OUTDOOR ADVERTISING SIGN
		MASONRY WALL (NOTE TYPE)
		MAILBOX
		CLOTHES LINE AND POLES (NOTED)
		WELL
		LEVEE OR EARTH DAM
		WOOD FENCE
		HOG WIRE OR BARBED WIRE FENCE
		CHAIN LINK FENCE
		DROP INLET (NOTED)
<b>NATURAL</b>		
		TREES. (DRAW DOT TO SCALE OF TREE)
		HEDGES OR SHRUBBERY
		SHRUB
		FLOWER BED, GARDEN, OR ROCK GARDEN (NOTED)
		LAKE OR POND
		SWAMP, MARSH, ETC.
		DITCH OR STREAM (ARROW INDICATES DIRECTION OF FLOW)
		EARTH
		ROCK

**EXISTING      PROPOSED**


**UTILITIES**

SANITARY SEWER MANHOLE
SANITARY SEWER GRAVITY LINE (NOTE DIA. OF PIPE IF KNOWN)
SANITARY SEWER FORCE LINE (ARROW INDICATES FLOW)
UTILITY MANHOLE (NOTE TYPE IN CIRCLE - P, T, ETC.)
POWER JUNCTION BOX
POWER POLE
LIGHT POLE (NOTE TYPE)
HIGH VOLTAGE TRANSMISSION POLE OR TOWER
UNDERGROUND POWER CONDUIT
OVERHEAD POWER LINES
TELEPHONE JUNCTION BOX
UNDERGROUND TELEPHONE CONDUIT
OVERHEAD TELEPHONE LINES
OVERHEAD TELEPHONE AND POWER LINES
GUY POLE
UTILITY POLE ANCHOR
GAS LINE MARKER (NOTED)
GAS METER
GAS LINE (NOTE DIA. OF PIPE IF KNOWN)
GAS VALVE
WATER VALVE
WATER LINE (NOTE DIA. OF PIPE IF KNOWN)
WATER METER
FIRE HYDRANT

**EXISTING      PROPOSED**


**SURVEY**

PROPERTY IRON (SIZE AND TYPE NOTED)
PROPERTY LINE
SECTION CORNER OR 1/4 SECTION CORNER IRON (SIZE, TYPE, AND DESCRIPTION NOTED)
1/4 OR 1/2 - 1/4 SECTION LINE
SECTION LINE
RIGHT OF WAY MONUMENTS (NOTED FOR EXISTING)
ROW LINE
CONSTRUCTION LIMITS
EASEMENT
CONSTRUCTION EASEMENT



NORTH ARROW

N 9,952.45  
E 9,439.16

	WATTLE DITCH CHECK DAM
	SILT FENCE
	HEADWALL
	DOUBLE WING CURB INLET
	SINGLE WING CURB INLET
	NORTHING & EASTING



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3/1/18  
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STANDARD LEGEND  
AND ABBREVIATIONS

SCALE: NONE  
SHEET 2 OF 20

**GN-2**



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**PROJECT SPECIFIC NOTES**

1. A SUBSURFACE INVESTIGATION HAS NOT BEEN DONE. INSITE ENGINEERING, LLC ALWAYS RECOMMENDS OBTAINING A GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION FILL COMPACTION REQUIREMENTS, FILL TYPE REQUIREMENTS, PAVEMENT BUILD UPS SHOULD BE DIRECTED AND PROVIDED BY THE GEOTECHNICAL ENGINEER.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND DESIGN STANDARDS OF THE GOVERNING AUTHORITY.
3. CONTRACTOR IS RESPONSIBLE FOR BUILDING SITES FREE OF DRAINAGE PROBLEMS DUE TO ANY DEVIATION FROM THE DESIGN PLANS.
4. GOVERNING AUTHORITIES ARE NOT RESPONSIBLE FOR ANY DRAINAGE EASEMENT OUTSIDE THE PUBLIC RIGHT-OF-WAY.
5. THE GOVERNING AUTHORITY IS NOT, NOR EVER WILL BE RESPONSIBLE FOR MAINTENANCE OF PRIVATE ROADS, EASEMENTS, OR AREAS OFF PUBLIC RIGHTS OF WAY.
6. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITIES A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY WORK WITHIN THE RIGHT-OF-WAY OF EXISTING ROADS.
7. ALL FEMA, USACE, COUNTY, AND/OR STATE PERMITS SHALL BE IN HAND AND ON SITE DURING THE CONSTRUCTION OF THE PROJECT.
8. A SIGNED AND SEALED COPY OF THE PLANS SHALL BE MAINTAINED ON SITE AND MADE READILY AVAILABLE FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL KEEP A MARKED UP SET OF PLANS SHOWING ALL CHANGES, DIMENSIONS, ETC. TO PROVIDE TO THE ENGINEER AFTER THE JOB IS COMPLETE AND CAPABLE OF BEING UTILIZED AS AS-BUILT DRAWINGS FOR FUTURE LOCATES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL, MEANS AND METHODS.
11. CONTRASCTOR SHALL BE RESPONSIBLE FOR ALL UTILITY BREAKS OR DAMAGES CAUSED BY THE CONTRACTORS WORK.

**GENERAL NOTES**

1. CONTRACTOR SHALL COORDINATE BETWEEN ARCHITECTURAL, MECHANICAL, STRUCTURAL, ELECTRICAL, AND/OR ANY OTHER DRAWINGS. ANY DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
3. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, SEQUENCES, PROCEDURES, AND JOB SITE SAFETY. THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO MAINTAIN AND PROTECT THE INTEGRITY OF ALL CONSTRUCTION (NEW AND EXISTING) AT ALL STAGES. ENGINEER ASSUMES NO LIABILITY FOR SAFETY ON THE JOB SITE.
4. ALL UTILITIES WITHIN ROADWAY SHALL BE BACKFILLED COMPLETELY WITH STONE UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER OR THE GOVERNING AUTHORITY.
5. ALL AREAS WHICH WILL LIE UNDER NEW STRUCTURES, PAVING, CONCRETE, OR WALKWAYS SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
6. ALL PERMITS, OTHER THAN THOSE LISTED IN THE SPECIFICATIONS, FOR THE DEVELOPMENT OF THESE PLANS ARE THE CONTRACTORS RESPONSIBILITY AND SHOULD BE OBTAINED PRIOR TO DISTURBING ANY AREAS OR BEGINNING ANY CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS AND DEBRIS NOT ACCEPTABLE TO THE OWNER.
8. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONCURRENT WORK BEING PERFORMED IN THE AREA.

**GRADING NOTES**

1. EMBANKMENTS WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN MAX. 10" LIFTS AND MIN. 98% COMPACTION (AASHTO T - 180) UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
2. NO WORK TO BE DONE IN EITHER GDOT OR COUNTY RIGHT-OF-WAY UNTIL ALL APPROPRIATE PERMITS ARE PROVIDED TO THE CITY.
3. CITY ENGINEER TO BE PROVIDED AT LEAST 48 HOURS NOTICE PRIOR TO THE STARTING OF EACH PHASE OF WORK.
4. ALL PERMITS/APPROVALS BY GEORGIA EPD, GDOT, FEMA, CORPS OF ENGINEERS WILL BE REQUIRED PRIOR TO DISTURBING AREAS UNDER JURISDICTIONS OF SUCH PERMITS.
5. THERE SHALL BE NO LAND DISTURBING ACTIVITY UNTIL PROOF OF GEORGIA EPD NOR COVERAGE IS PROVIDED TO THE CITY AND ADEQUATE EROSION CONTROL MEASURES ARE IN PLACE.
6. CONTRACTOR SHALL TIE PROPOSED PAVING INTO EDGE OF EXISTING PAVING. CONTRACTOR SHALL ADJUST CROSS SECTION AS REQUIRED TO ENSURE SMOOTH PAVEMENT TRANSITIONS AND POSITIVE DRAINAGE. CURB AND GUTTER SHALL BE WORKMANLIKE, SMOOTH, AND ENSURE POSITIVE DRAINAGE.
7. ALL CUT AND FILL SIDE SLOPES ARE 2:1 UNLESS NOTED OTHERWISE. UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
8. CLEARING LIMITS TO BE 5' OUTSIDE OF TOE AND TOP OF SLOPE.
9. DIMENSIONS AND RADII ARE SHOWN TO FACE OF CURB, UNLESS OTHERWISE NOTED.
10. ELEVATION SPOTS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

**EROSION CONTROL SEQUENCE**

ALL CONSTRUCTION SHALL BE DONE IN A LOGICAL SEQUENCE SO TO MINIMIZE THE AREA OF DISTURBANCE.

1. OBTAIN REQUIRED PERMITS.
2. STAKE PROPERTY LINES AND CLEARING LIMITS.
3. SELECTIVELY CLEAR PATH AS REQUIRED TO INSTALL SILT FENCING AND PERIMETER EROSION CONTROL MEASURES.
4. INSTALL SILT FENCES ALONG SIDE SLOPE BOUNDARIES.
5. INSTALL STONE ENTRANCE DRIVE.
6. PROTECT STORM DRAIN INLETS DOWNSTREAM OF CONSTRUCTION WITH HAY BALES, WATTLES, SILT FENCE AND/OR OTHER PROTECTIVE MEASURES.
7. INSTALL OTHER REQUIRED EROSION CONTROL MEASURES DOWNSTREAM OF PROJECT AREA.
8. PERFORM CLEARING AND GRUBBING.
9. INSTALL SILT FENCE AROUND STOCKPILES.
10. BEGIN EARTHWORK AND CONSTRUCT PROJECT.
11. MODIFY AND MAINTAIN EROSION CONTROL AS REQUIRED DURING CONSTRUCTION.
12. INSPECT ALL EROSION CONTROL MEASURES AFTER EVERY 0.50" RAINFALL. COPIES OF ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROPER AUTHORITIES IN ACCORDANCE WITH APPLICABLE PERMITS.
13. TEMPORARILY OR PERMANENTLY STABILIZE STRIPPED AREAS AND STOCKPILES LEFT INACTIVE FOR 14 OR MORE CALENDAR DAYS.
14. REMOVE ANY SEDIMENT REACHING PUBLIC OR PRIVATE ROADWAYS BY STREET CLEANING BEFORE THE END OF EACH DAY. FLUSHING OF STREETS WILL NOT BE ALLOWED
15. INSTALL TEMPORARY SEDIMENTATION PONDS OR DIVERSION BERMS AS NEEDED TO CONTROL THE FLOW OF WATER AND COLLECTION OF SEDIMENT DURING THE PROJECT.
16. COMPLETE FINE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
17. COMPLETE FINAL PAVING FOR ROADS.
18. REMOVE SILT FENCE UPON COMPLETION OF ALL CONSTRUCTION ACTIVITY.
19. RESEED AND STABILIZE ANY BARE SPOTS OR WASHOUTS.
20. TERMINATE ALL PERMITS.

**EROSION CONTROL NOTES**

1. ALL EROSION CONTROL PERMITS FOR THE DEVELOPMENT OF THESE PLANS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY GROUND DISTURBANCE.
2. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER CONSTRUCTION ON THE JOB SITE.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES AS SHOWN ON THESE DRAWINGS OR REQUIRED BY LOCAL, STATE, AND/OR FEDERAL REGULATORY AUTHORITIES.
4. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE CONSIDERED THE MINIMUM ACCEPTABLE AND SHALL BE MODIFIED IN THE FIELD AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND/OR FEDERAL REQUIREMENTS.
5. EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND THE NPDES PERMIT IS TERMINATED.
6. ALL DISTURBED AREAS NOT SHOWN TO BE LANDSCAPED SHALL BE SEEDED & MULCHED AS PER LOCAL STANDARDS AND SPECIFICATIONS.
7. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS RELATING TO THE ONSITE STORAGE OF FUEL, OIL, AND GREASE. AN SPCC PLAN MUST BE MAINTANED AND IMPLEMENTED ON SITE.
8. STREAMS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR HEAVY EQUIPMENT. CROSSINGS SHALL BE LIMITED TO ONE POINT AND EROSION CONTROL MEASURES MUST BE UTILIZED WHERE STREAM BANKS AND DRAINAGE DITCHES ARE DISTURBED.

**EROSION CONTROL PLAN AND PERFORMANCE STANDARDS**

1. THE EROSION CONTROL PLAN SHALL CONTAIN A DESCRIPTION OF THE EXISTING SITE CONDITIONS, A DESCRIPTION OF ADJACENT TOPOGRAPHICAL FEATURES, INFORMATION NECESSARY TO DETERMINE THE EROSION QUALITIES OF THE SOIL ON THE SITE, POTENTIAL PROBLEM AREAS OF SOIL EROSION AND SEDIMENTATION, SOIL STABILIZATION SPECIFICATIONS, STORM WATER MANAGEMENT CONSIDERATIONS, PROJECTED TIME SCHEDULE FOR COMMENCEMENT AND COMPLETION OF THE LAND-DISTURBING ACTIVITY, SPECIFICATIONS FOR BMP PLAN MAINTENANCE DURING THE PROJECT AND AFTER THE COMPLETION OF THE PROJECT, CLEARING AND GRADING LIMITS, AND ALL OTHER INFORMATION NEEDED TO DEPICT ACCURATELY THE SOLUTIONS TO POTENTIAL SOIL EROSION AND SEDIMENTATION PROBLEMS TO THE MS4. THE CONTROL PLAN SHALL INCLUDE THE SERIES OF BMP'S AND SHALL BE REVIEWED BY, AND SUBJECT TO THE APPROVAL OF, THE OFFICIAL PRIOR TO THE ISSUANCE OF THE PERMIT.
2. CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THIS PLAN.
3. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE. THE STORM WATER DISCHARGE TO AN MS4 MUST NOT CAUSE AN UNNATURAL COLOR (EXCEPT DYES OR OTHER SUBSTANCES DISCHARGED TO AN MS4 FOR THE PURPOSE OF ENVIRONMENTAL STUDIES AND WHICH DO NOT HAVE HARMFUL EFFECT ON THE BODIES OF WATER WITHIN THE MS4) OR ODOR IN THE COMMUNITY WATERS. THE STORM WATER DISCHARGE TO THE MS4 MUST RESULT IN NO MATERIALS IN CONCENTRATIONS SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE OR FISH AND AQUATIC LIFE IN THE COMMUNITY WATERS.



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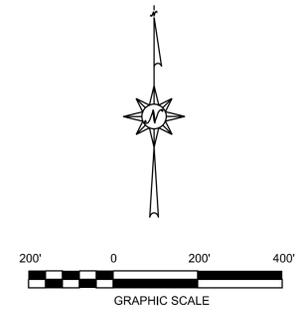
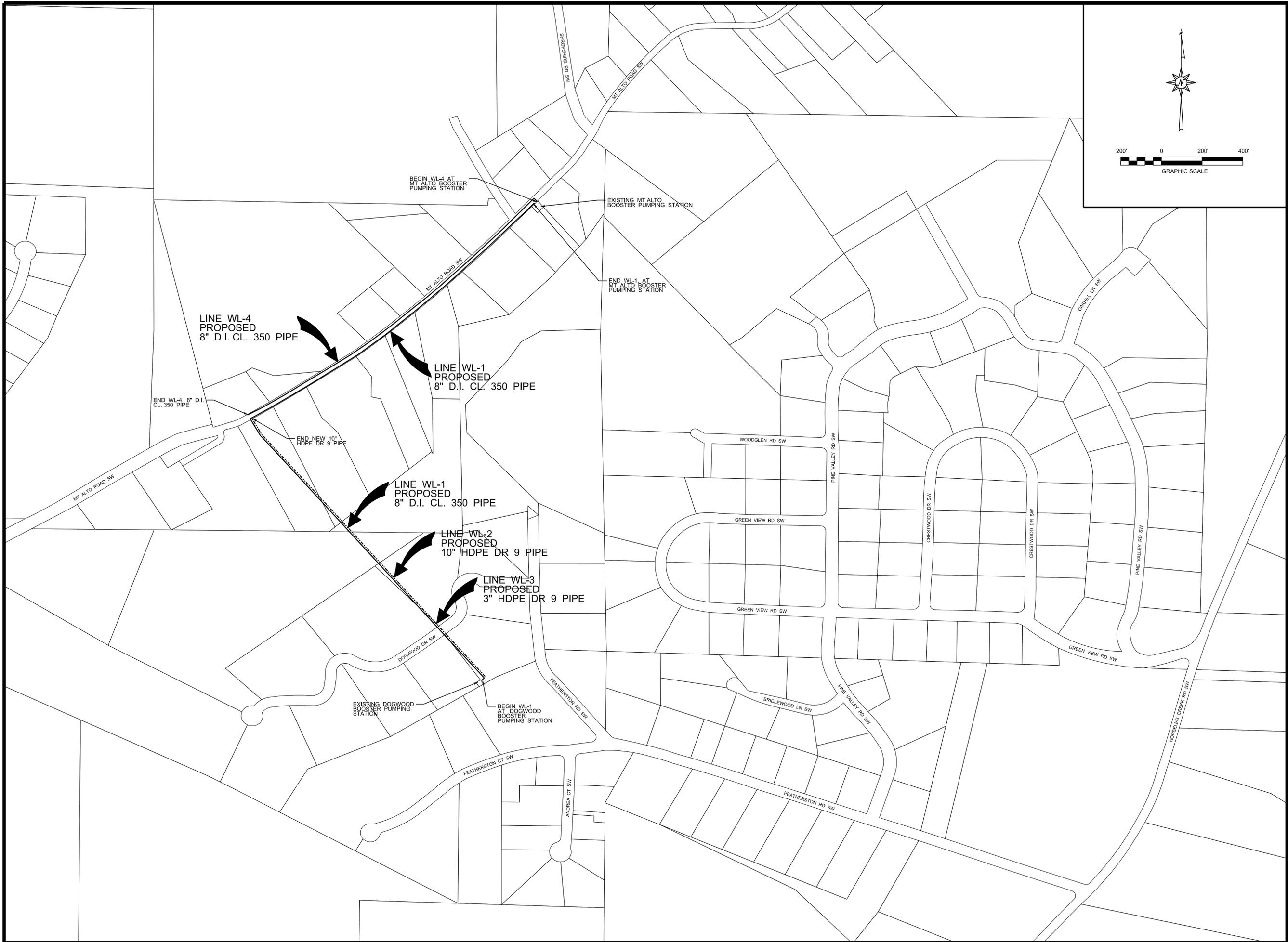
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THIS SHEET CONTAINS:  
GENERAL NOTES

SCALE: NONE  
SHEET 3 OF 20

**GN-3**



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THIS SHEET CONTAINS:  
 OVERALL PROJECT PLAN

SCALE: 1"= 200'  
 SHEET 4 OF 20

## OV-1

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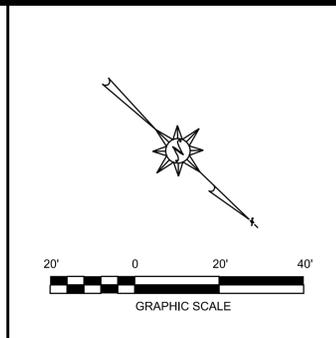
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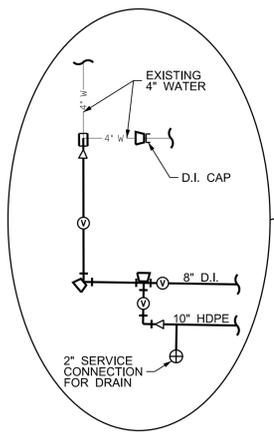
THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 0+00 TO  
STA. 4+00

SCALE: 1"= 20'  
SHEET 5 OF 20

**WM-1**



- NOTES:**
- CONTRACTOR SHALL NOTIFY CITY OF ROME WATER AND SEWER DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
  - UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
  - ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
  - ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
  - CONTRACTOR TO FIGURE ALL REQUIRED VERTICAL AND HORIZONTAL BENDS. ONLY KNOWN HORIZONTAL BENDS HAVE BEEN SHOWN.
  - DO NOT CLEAR OUTSIDE ROAD RIGHT-OF-WAY LIMITS OR OUTSIDE OF UTILITY EASEMENTS.
  - CONTRACTOR TO REMOVE AND REINSTALL ALL MAILBOXES, PLANTERS, ETC. REQUIRED FOR NEW WATER LINE INSTALLATION.
  - OWNER WILL SUPPLY NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR DIRECT TAP AND SERVICE PIPING.



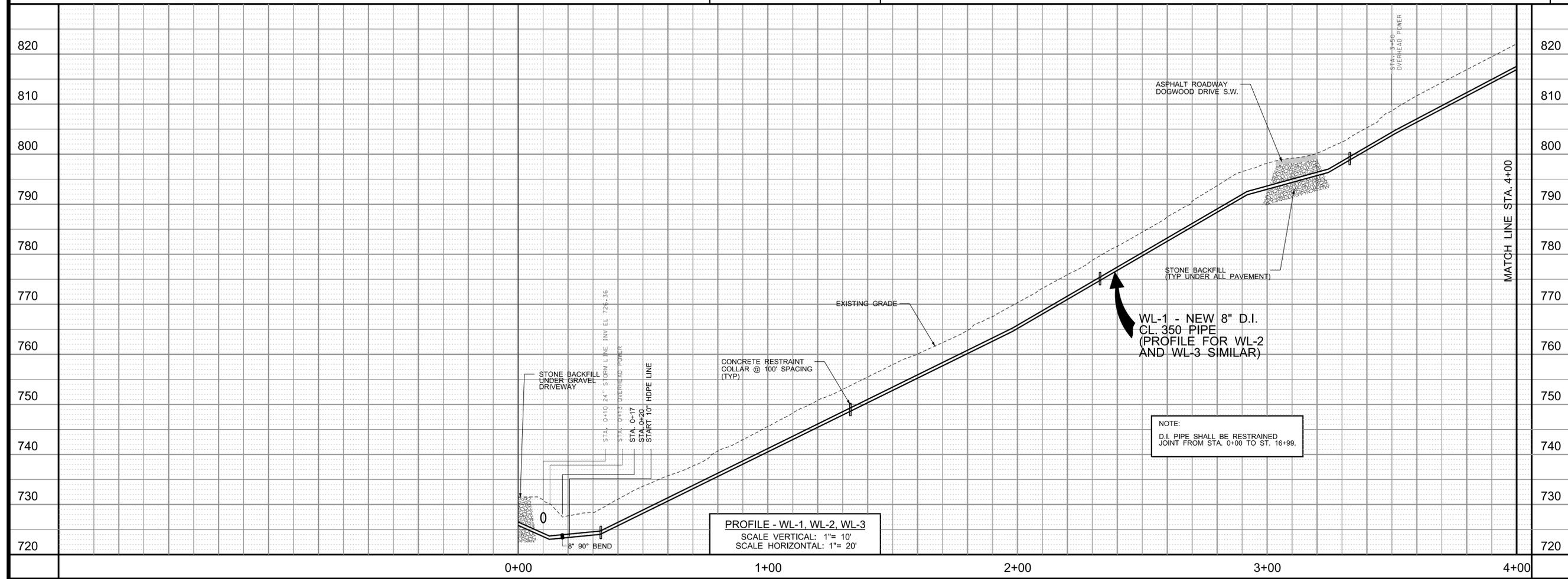
**STA. 0+00+/-, WL-1 FURNISH AND INSTALL**  
1- 8" x 4" D.I. REDUCER, ALL RJ  
1- 4" D.I. SLEEVE, ALL RJ  
1- CONNECTION TO EXISTING SYSTEM

**STA. 0+00, WL-2= STA. 0+20+/-, WL-1 FURNISH AND INSTALL**  
1- 8" D.I. GATE VALVE  
2- 8" D.I. 90° BEND, ALL RJ  
1- 10" x 8" HDPE REDUCER  
1- 8" D.I. TEE, ALL RJ  
3- 8" D.I. GATE VALVES, ALL RJ  
3- VALVE BOXES AND LIDS  
3- CONCRETE LOCATOR PADS  
3- CONCRETE BRACES  
1- 2" SERVICE CONNECTION IN METER BOX FOR DRAIN ON 10"

**STA. 0+00, WL-3= STA. 1+75+/-, WL-2= STA. 1+95+/-, WL-1 FURNISH AND INSTALL**  
1- 3" HDPE CAP  
1- AUTOMATIC FLUSH ASSEMBLY  
1- CONCRETE BRACE

**PLAN - WL-1, WL-2, WL-3**  
SCALE: 1"= 20'

**NOTE:**  
NEW WATER LINE SHALL BE TESTED AND DISINFECTED BEFORE CONNECTING SERVICES



**PROFILE - WL-1, WL-2, WL-3**  
SCALE VERTICAL: 1"= 10'  
SCALE HORIZONTAL: 1"= 20'

**NOTE:**  
D.I. PIPE SHALL BE RESTRAINED JOINT FROM STA. 0+00 TO ST. 16+99.

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COMMERCIAL  
RESIDENTIAL

CONSTRUCTION PLANS FOR:

# MT. ALTO - WATER TRANSMISSION MAIN

CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



**PROJECT INFO:**

INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



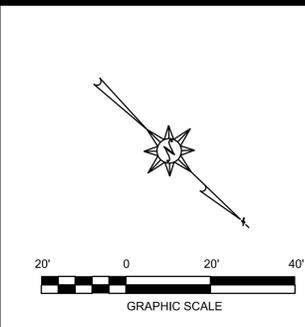
3/1/18

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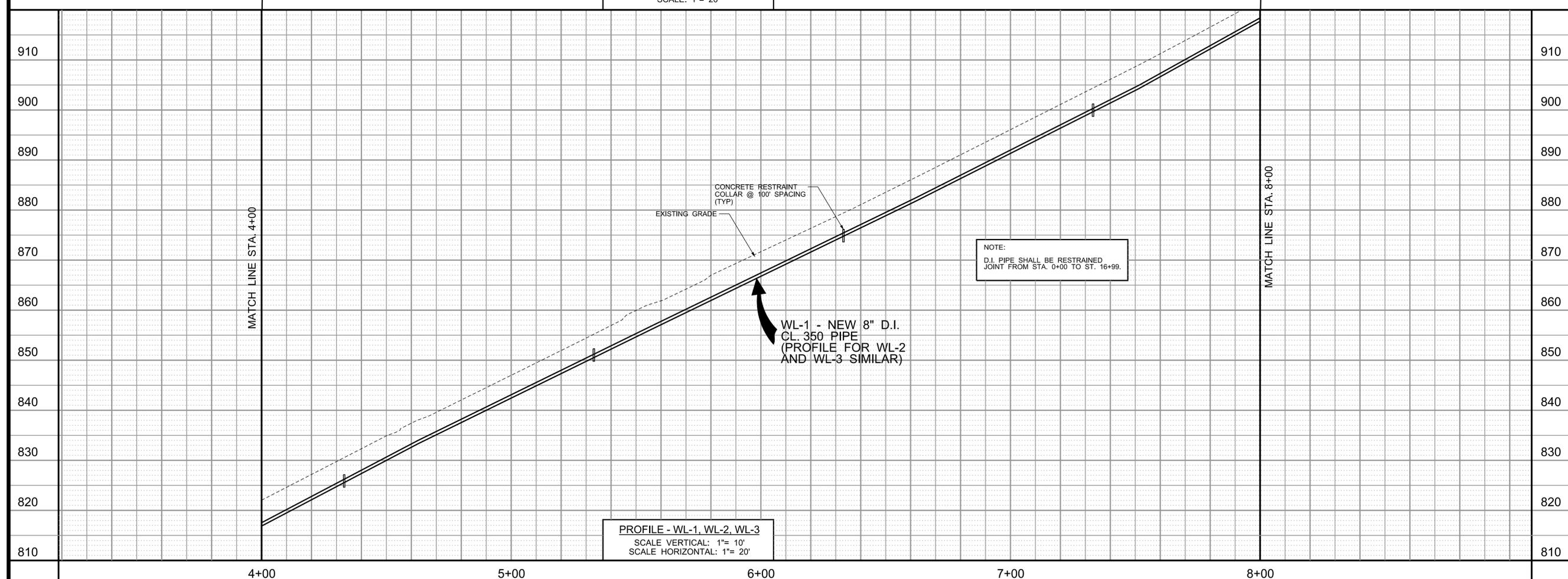
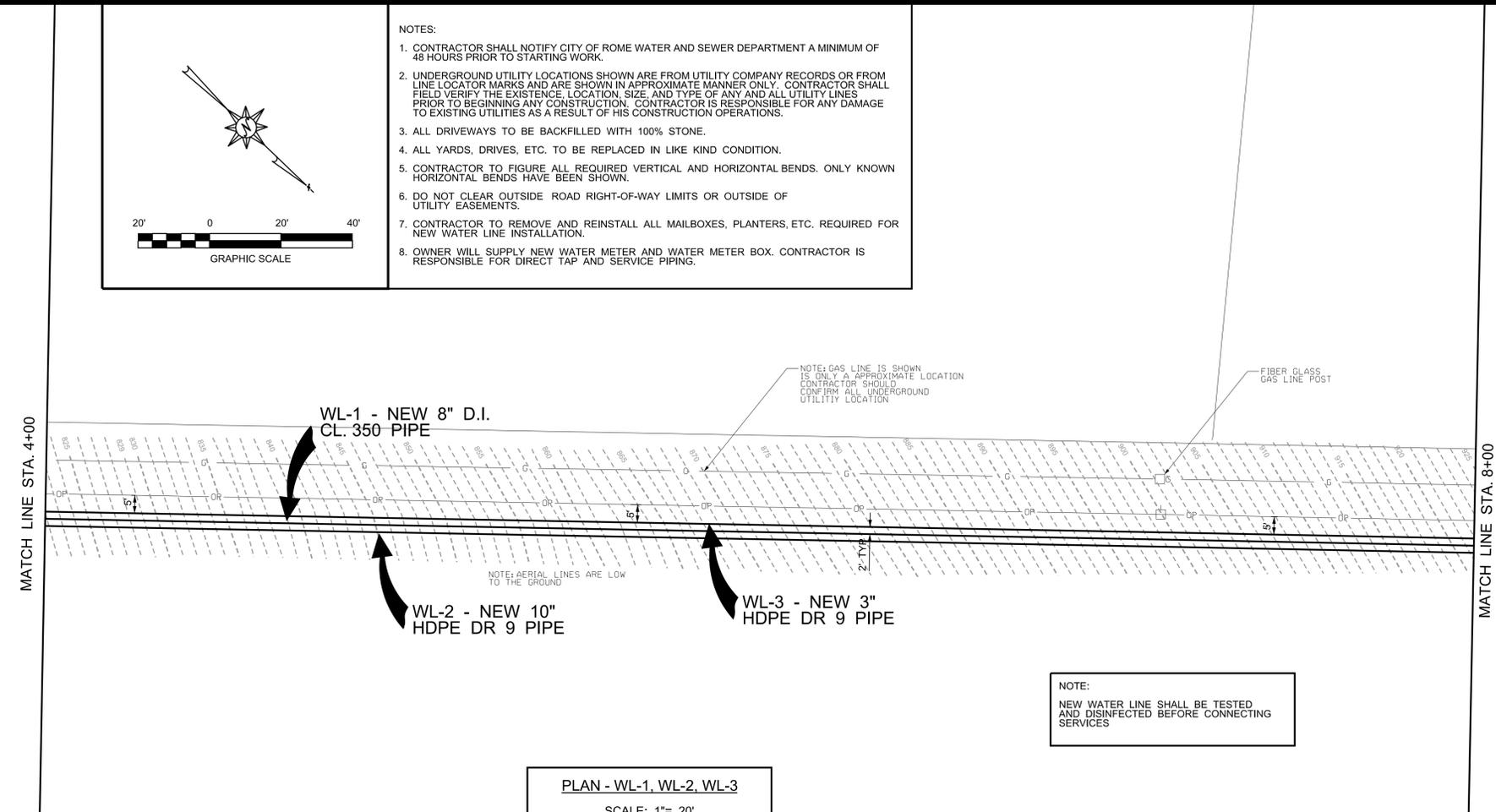
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 4+00 TO  
STA. 8+00

SCALE: 1"= 20'  
SHEET 6 OF 20

## WM-2



- NOTES:
- CONTRACTOR SHALL NOTIFY CITY OF ROME WATER AND SEWER DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
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  - ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
  - ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
  - CONTRACTOR TO FIGURE ALL REQUIRED VERTICAL AND HORIZONTAL BENDS. ONLY KNOWN HORIZONTAL BENDS HAVE BEEN SHOWN.
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  - CONTRACTOR TO REMOVE AND REINSTALL ALL MAILBOXES, PLANTERS, ETC. REQUIRED FOR NEW WATER LINE INSTALLATION.
  - OWNER WILL SUPPLY NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR DIRECT TAP AND SERVICE PIPING.



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CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER  
TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



**PROJECT INFO:**

INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



3/1/18

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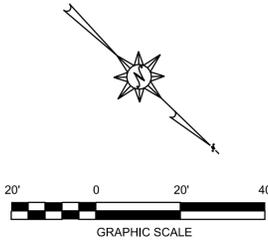
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 8+00 TO  
STA. 11+00

SCALE: 1"= 20'  
SHEET 7 OF 20

**WM-3**

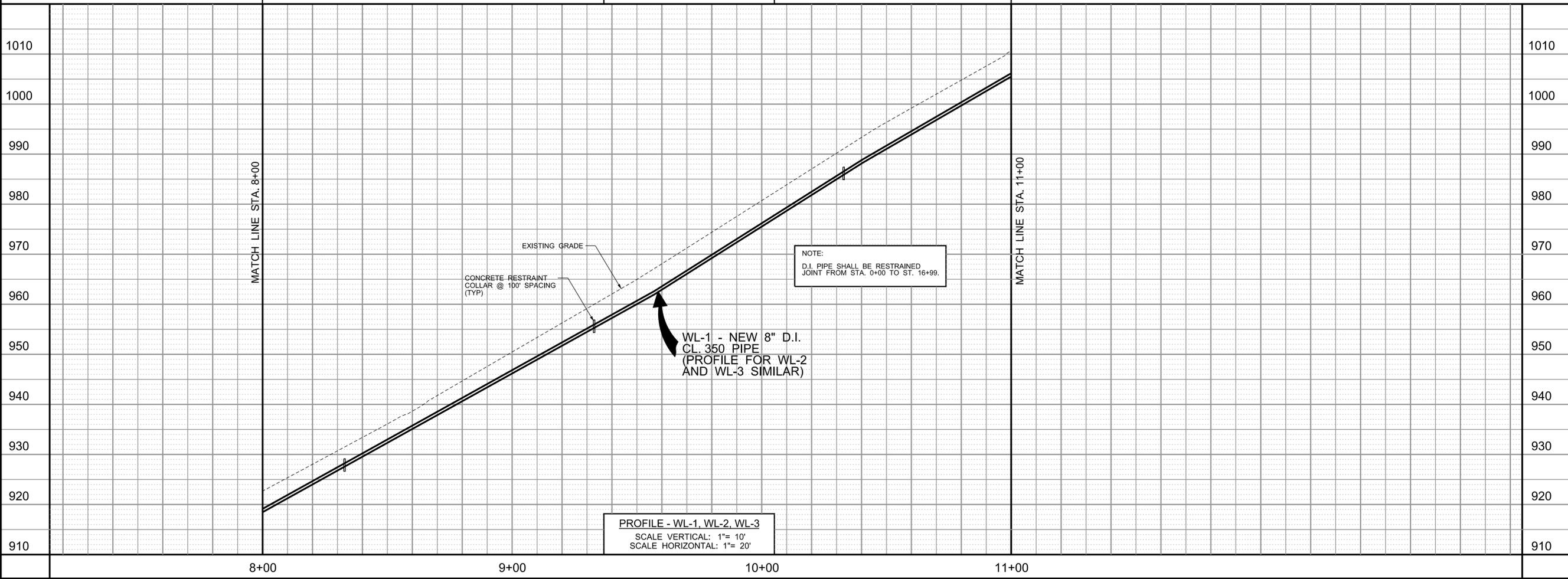
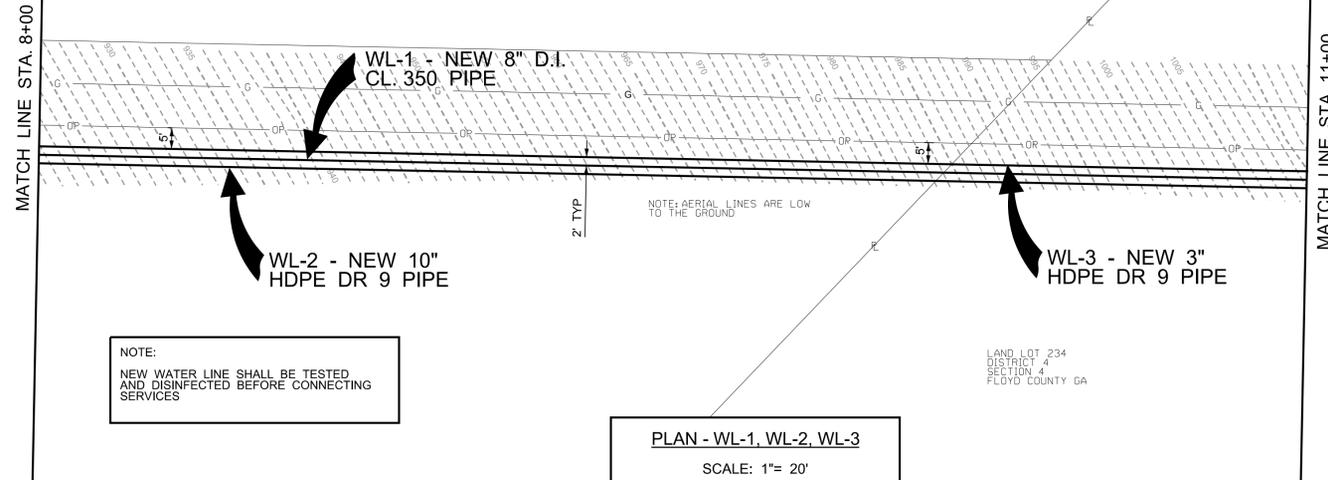
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LAND LOT 235  
DISTRICT 4  
SECTION 4  
FLOYD COUNTY GA

LAND LOT 234  
DISTRICT 4  
SECTION 4  
FLOYD COUNTY GA



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CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



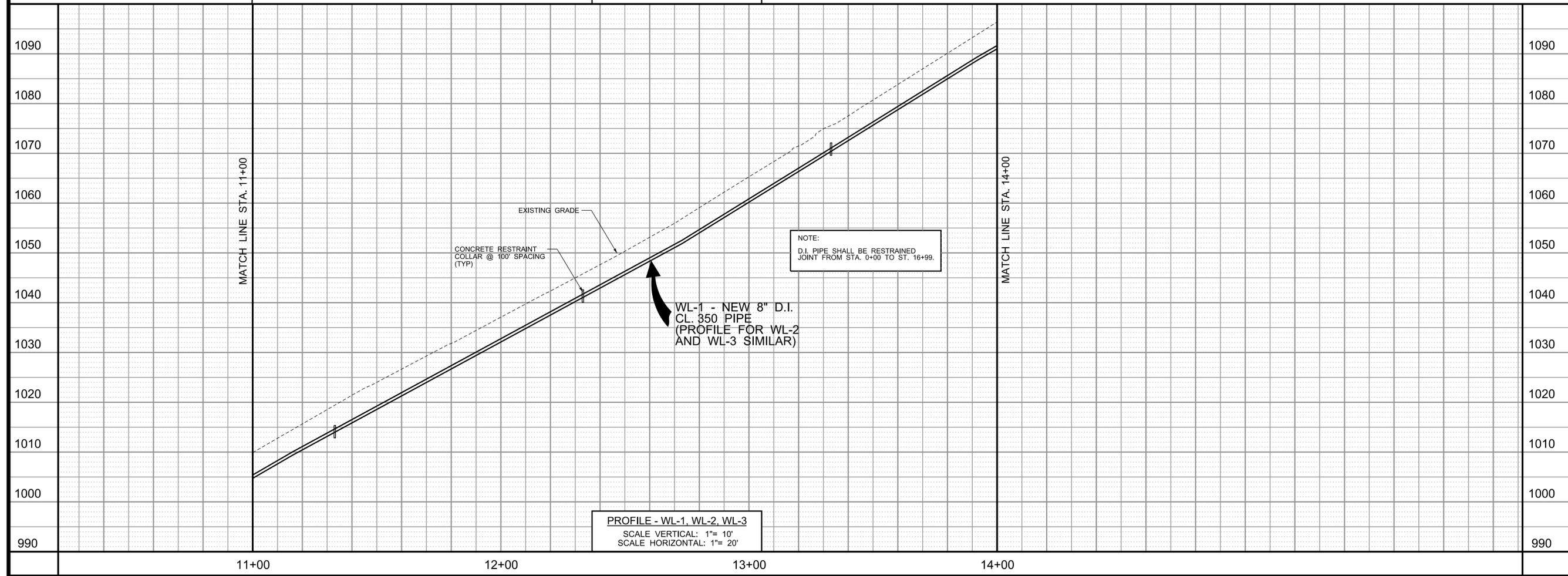
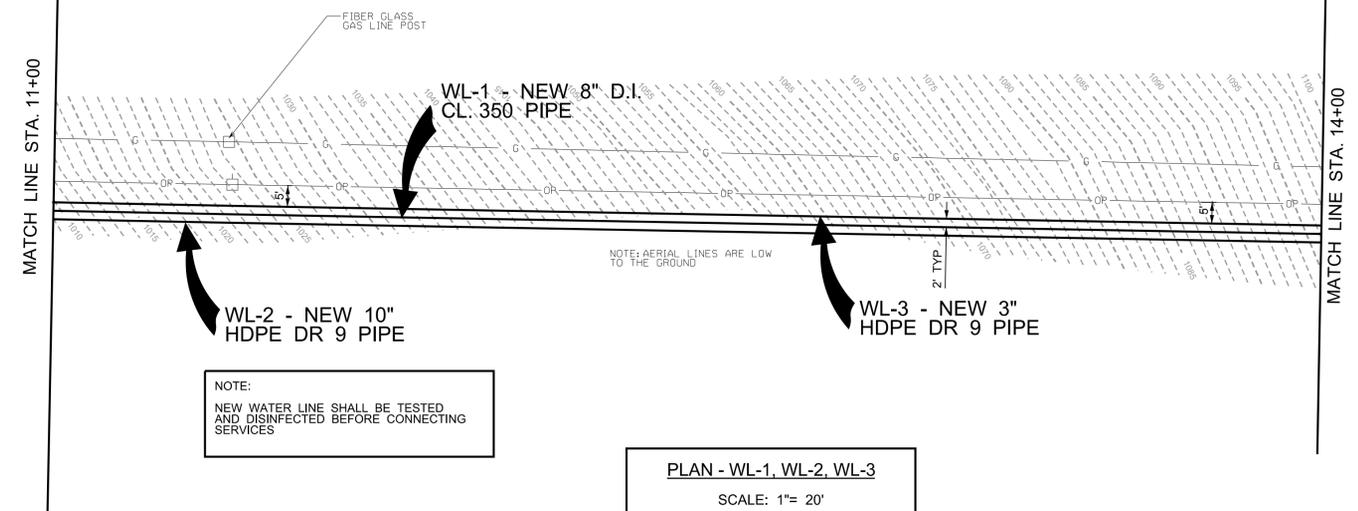
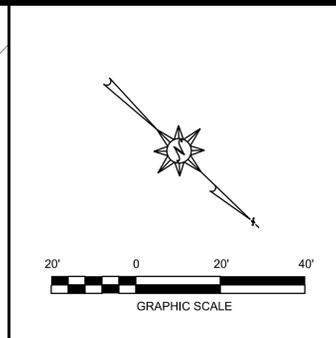
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PLOTTED: 3/1/18  
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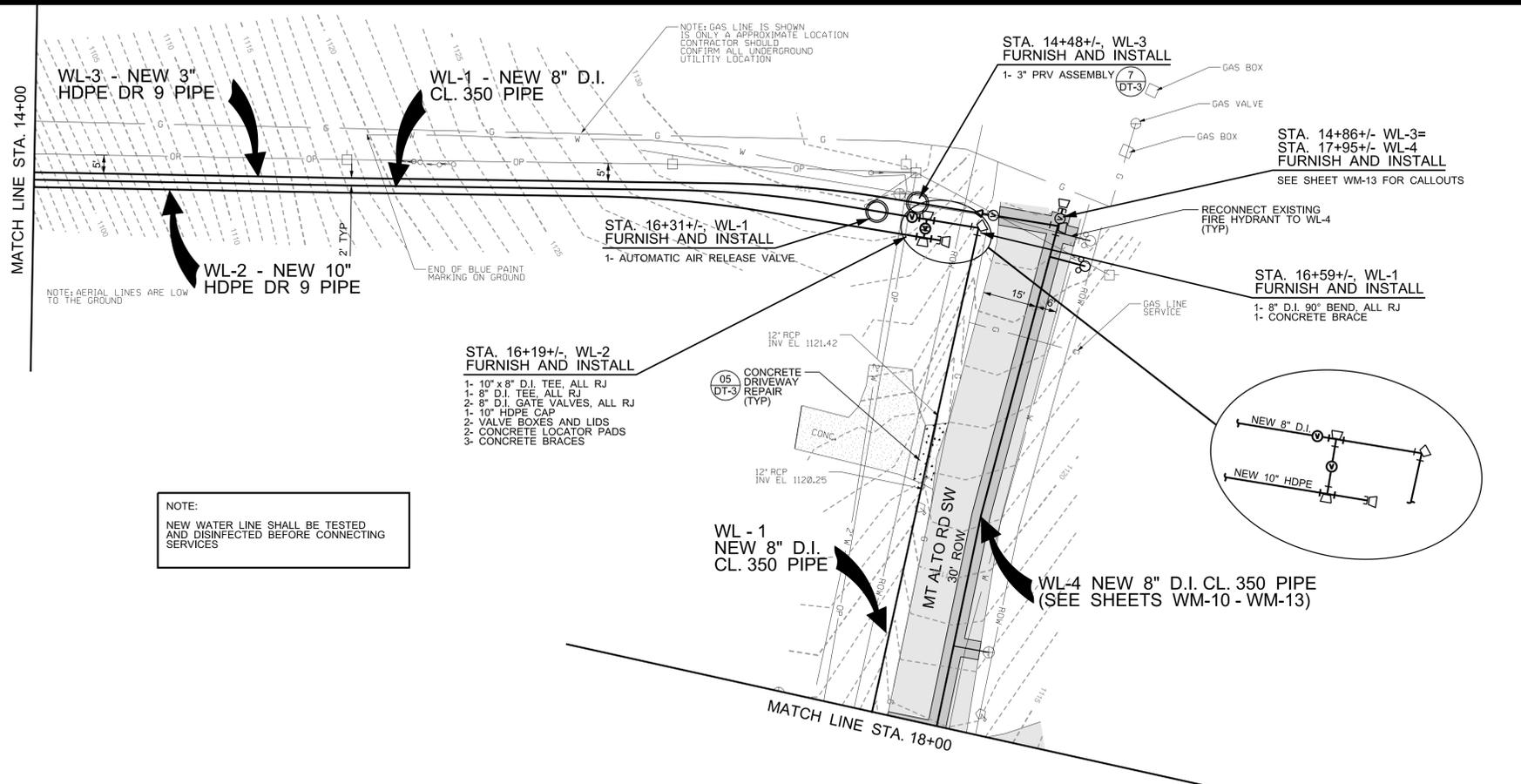
THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 11+00 TO  
STA. 14+00  
SCALE: 1"= 20'  
SHEET 8 OF 20

**WM-4**

- NOTES:
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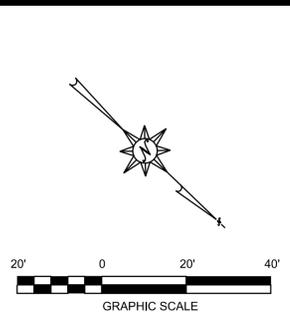


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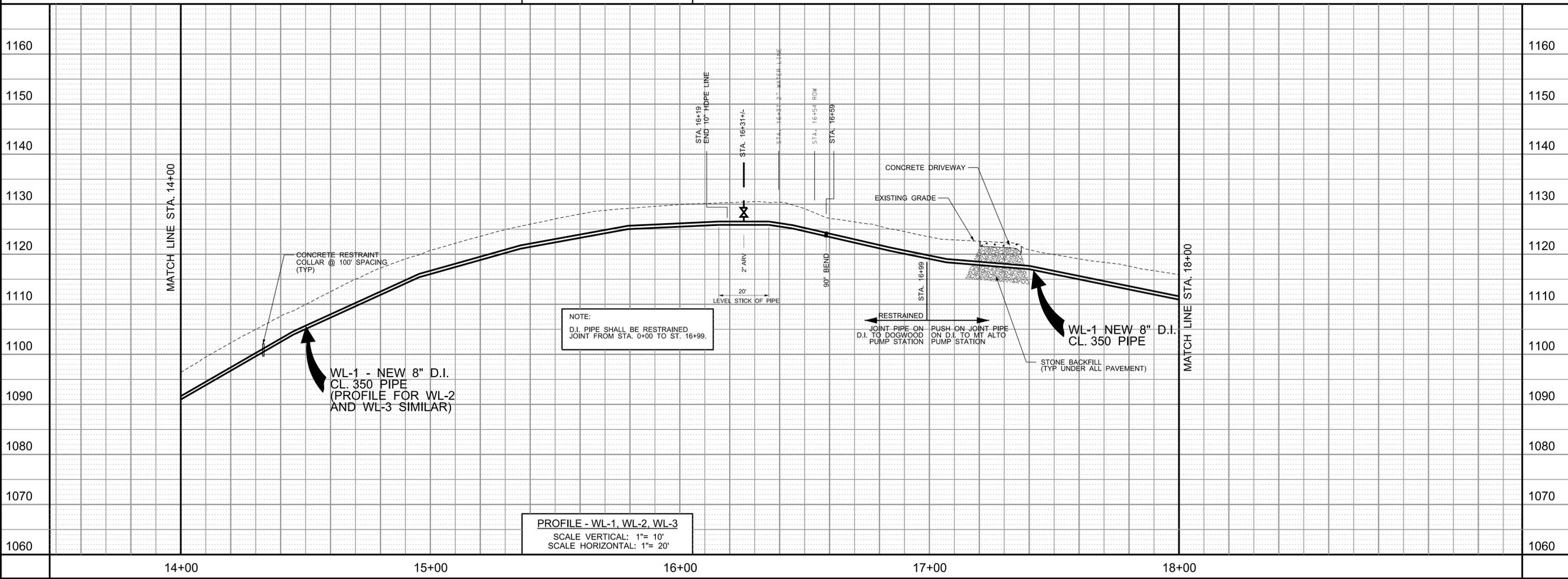


NOTE:  
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PLAN - WL-1, WL-2, WL-3  
SCALE: 1" = 20'



PROFILE - WL-1, WL-2, WL-3  
SCALE VERTICAL: 1" = 10'  
SCALE HORIZONTAL: 1" = 20'

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CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER  
TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



PROJECT INFO:  
INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 14+00 TO  
STA. 18+00

SCALE: 1" = 20'  
SHEET 9 OF 20

**WM-5**



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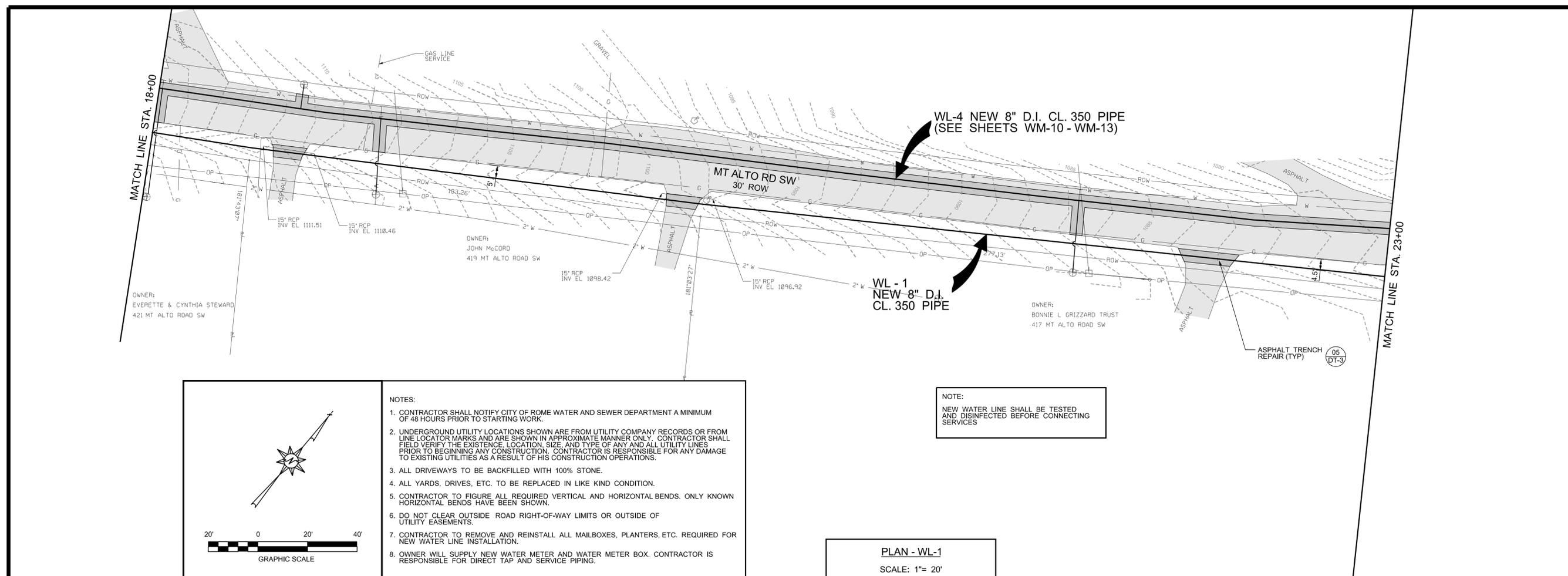


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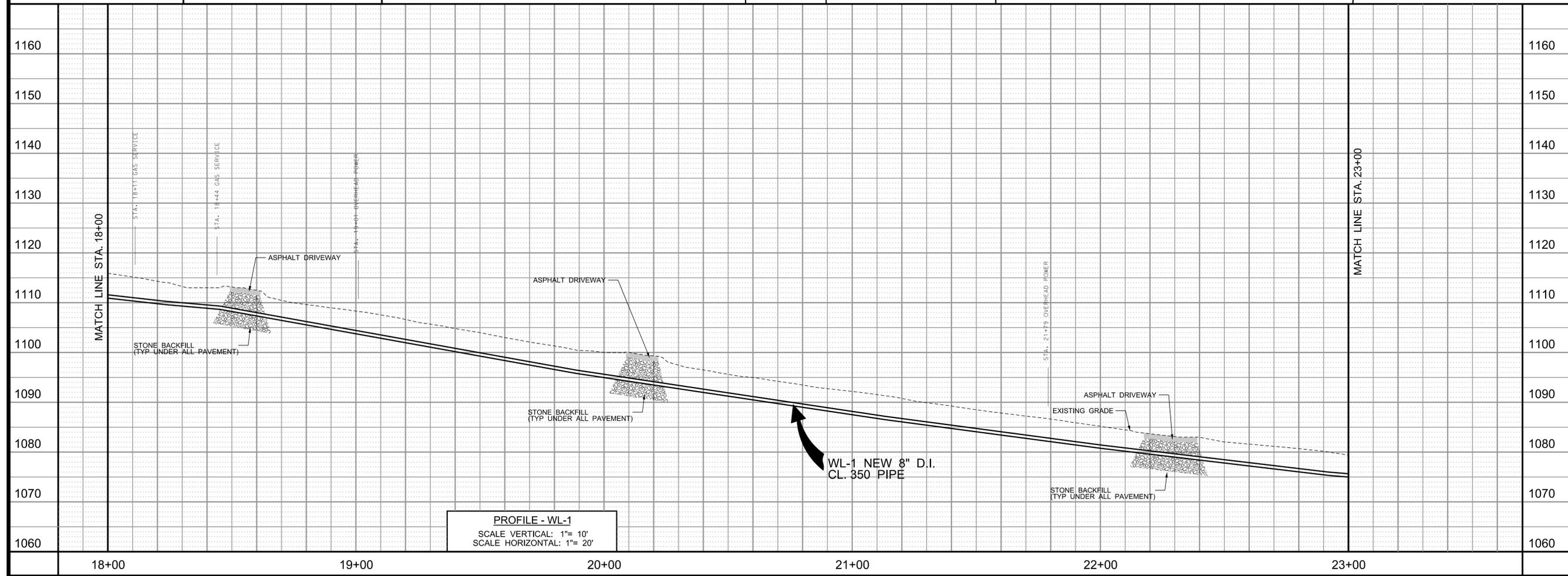
THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 18+00 TO  
STA. 23+00  
SCALE: 1"= 20'  
SHEET 10 OF 20

**WM-6**



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**PLAN - WL-1**  
SCALE: 1"= 20'



**PROFILE - WL-1**  
SCALE VERTICAL: 1"= 10'  
SCALE HORIZONTAL: 1"= 20'

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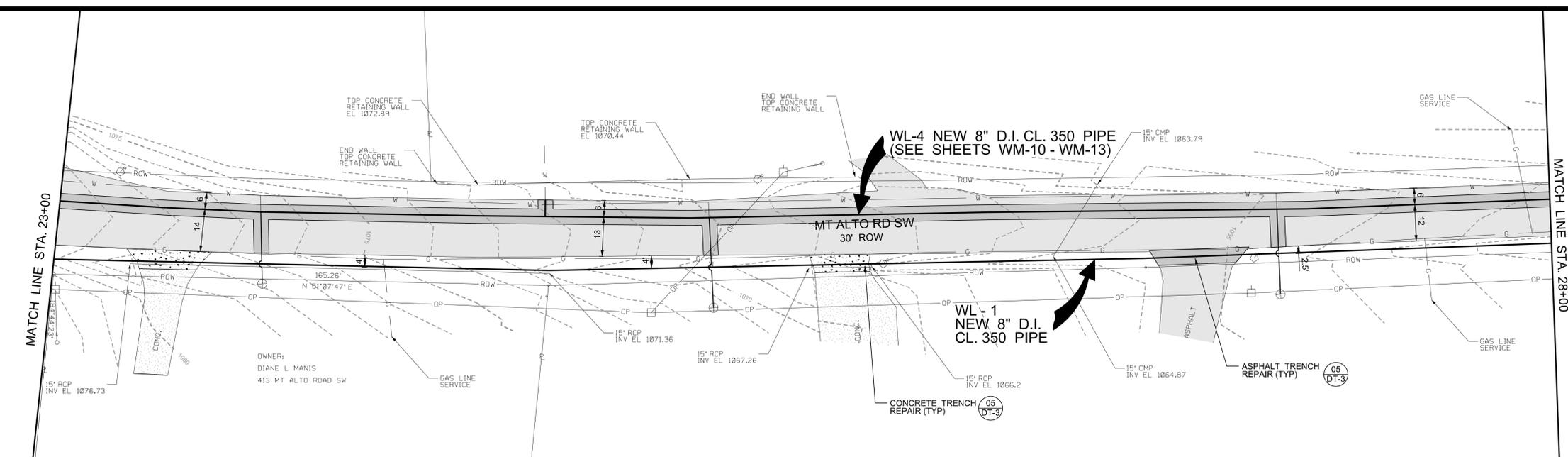


3/1/18  
THIS SHEET CONTAINS:

WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 23+00 TO  
STA. 28+00

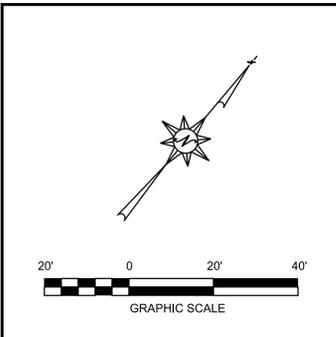
SCALE: 1"= 20'  
SHEET 11 OF 20

**WM-7**

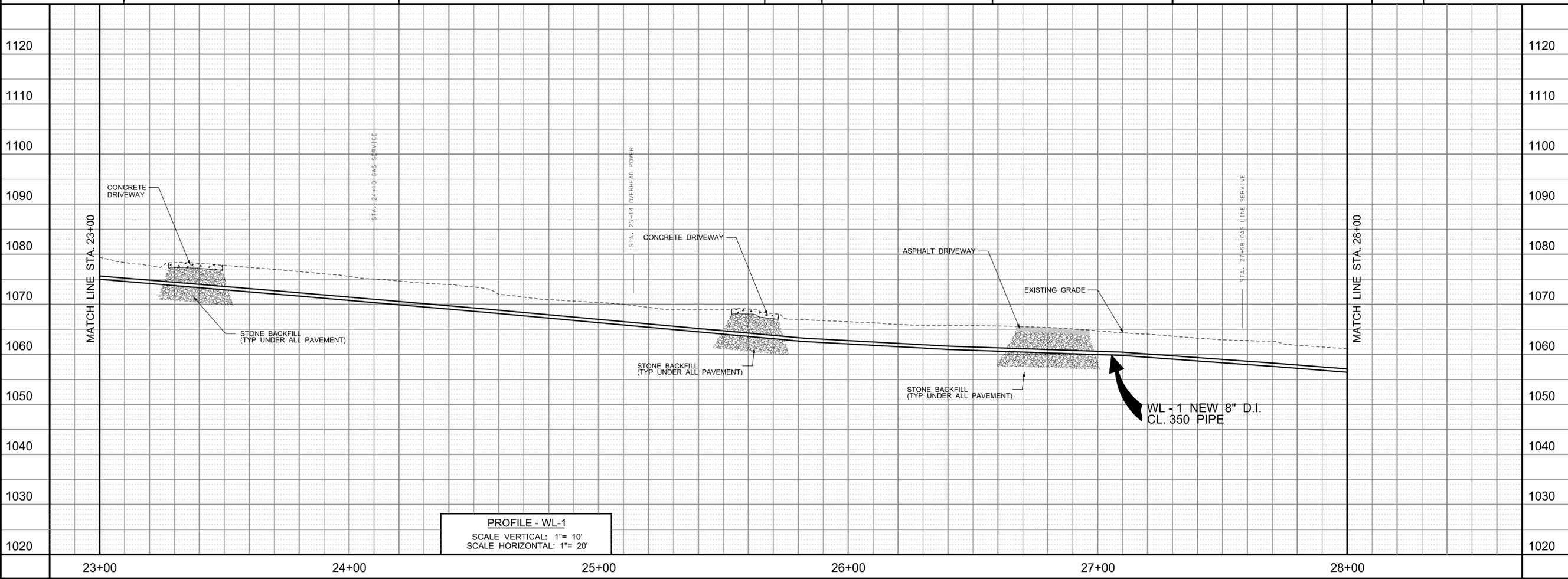


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**PLAN - WL-1**  
SCALE: 1"= 20'



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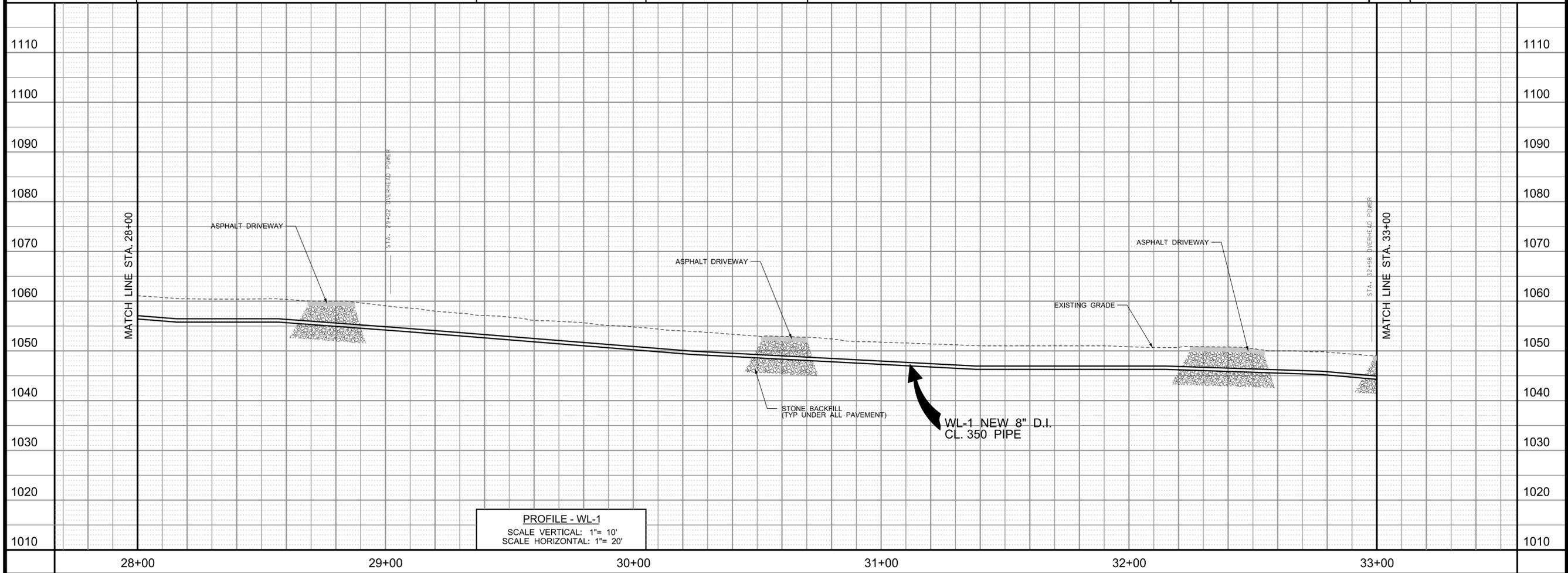
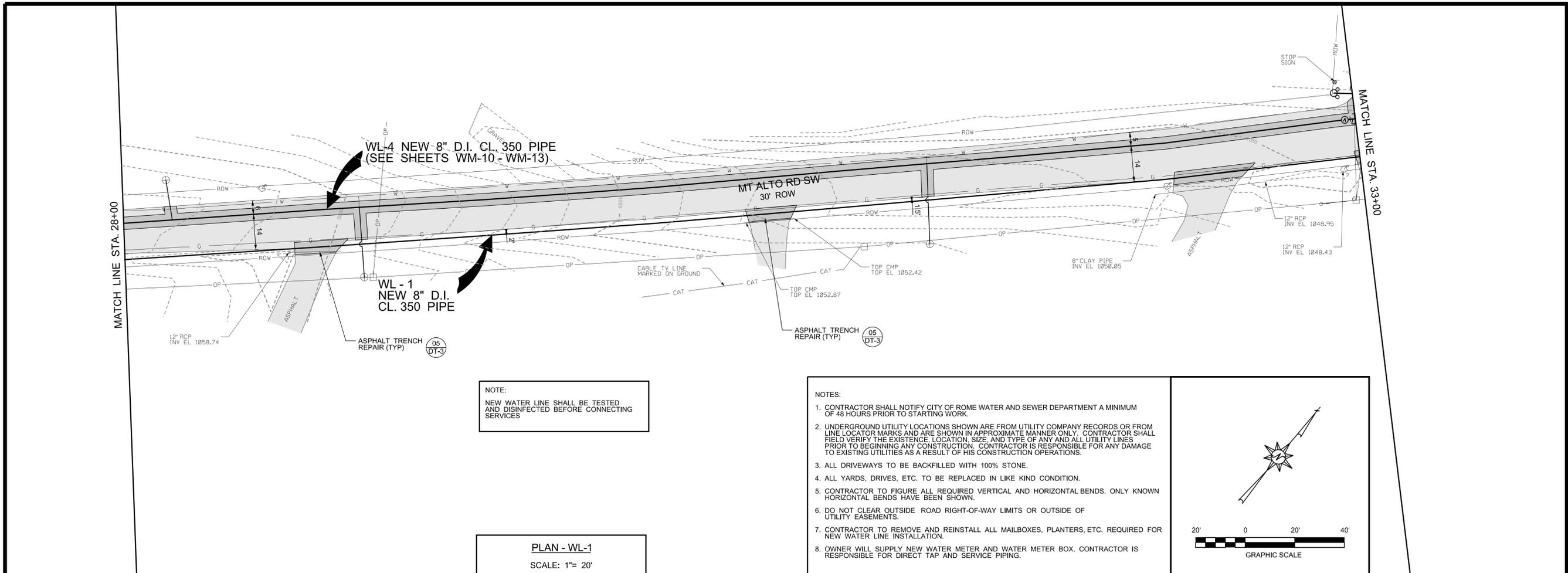


3/1/18  
THIS SHEET CONTAINS:

WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 28+00 TO  
STA. 33+00

SCALE: 1"= 20'  
SHEET 5 OF 20

**WM-8**



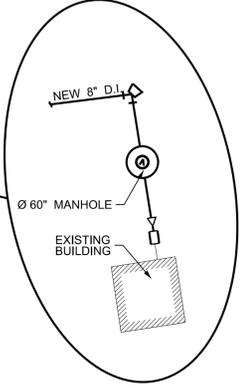
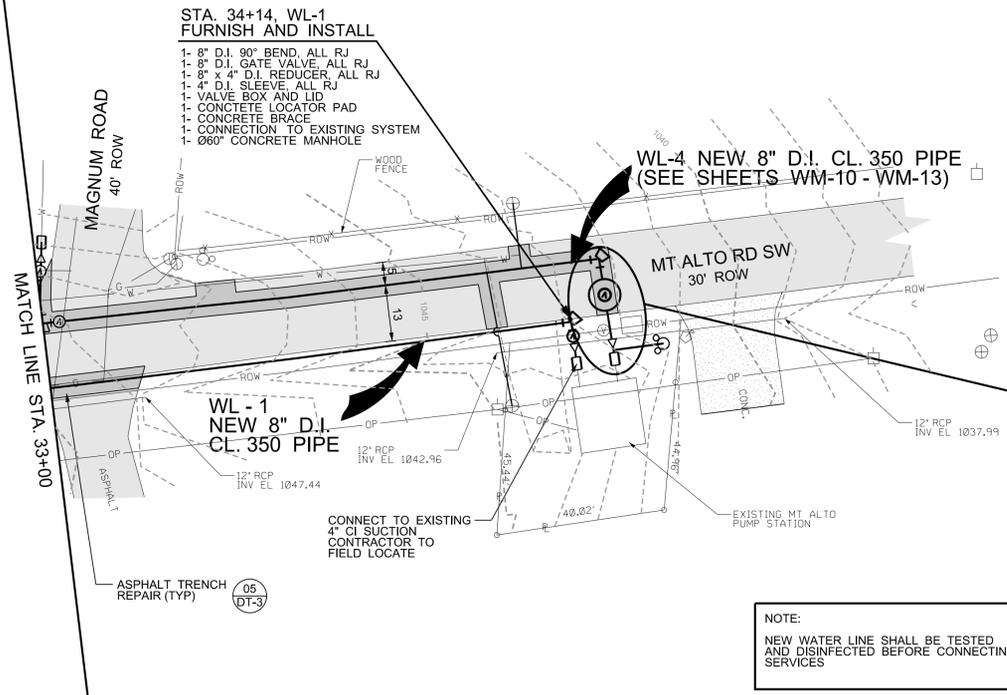
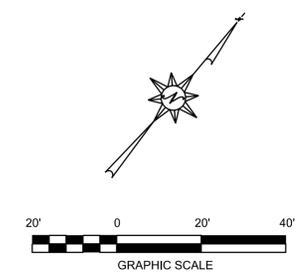
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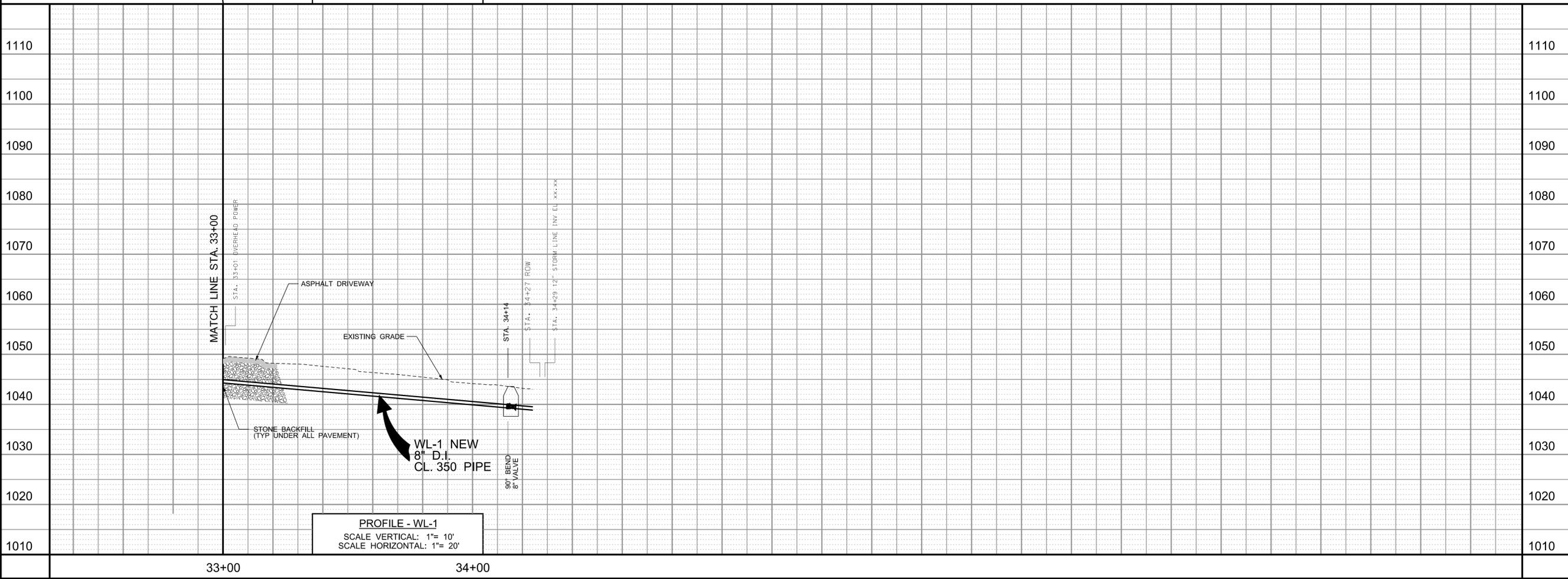
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RESIDENTIAL



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SERVICES

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PLAN - WL-1  
SCALE: 1"= 20'



PROFILE - WL-1  
SCALE VERTICAL: 1"= 10'  
SCALE HORIZONTAL: 1"= 20'

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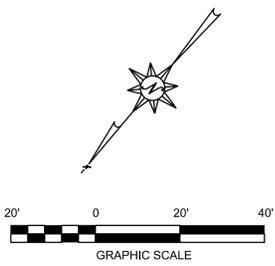


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INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-1  
STA. 33+00 TO  
STA. 34+24  
SCALE: 1"= 20'  
SHEET 13 OF 20

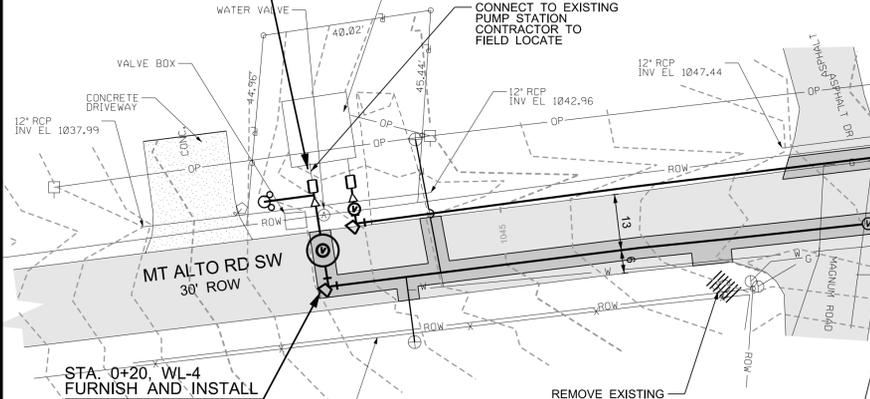
**WM-9**



- NOTES:
1. CONTRACTOR SHALL NOTIFY CITY OF ROME WATER AND SEWER DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
  2. UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
  3. ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
  4. ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
  5. CONTRACTOR TO FIGURE ALL REQUIRED VERTICAL AND HORIZONTAL BENDS. ONLY KNOWN HORIZONTAL BENDS HAVE BEEN SHOWN.
  6. DO NOT CLEAR OUTSIDE ROAD RIGHT-OF-WAY LIMITS OR OUTSIDE OF UTILITY EASEMENTS.
  7. CONTRACTOR TO REMOVE AND REINSTALL ALL MAILBOXES, PLANTERS, ETC. REQUIRED FOR NEW WATER LINE INSTALLATION.
  8. OWNER WILL SUPPLY NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR DIRECT TAP AND SERVICE PIPING.

**STA. 0+00, WL-4  
FURNISH AND INSTALL**

- 1- 8" x 4" D.I. REDUCER, ALL RJ
- 1- 4" D.I. SLEEVE, ALL RJ
- 1- CONNECTION TO EXISTING SYSTEM
- 1- FIRE HYDRANT ASSEMBLY



**STA. 0+20, WL-4  
FURNISH AND INSTALL**

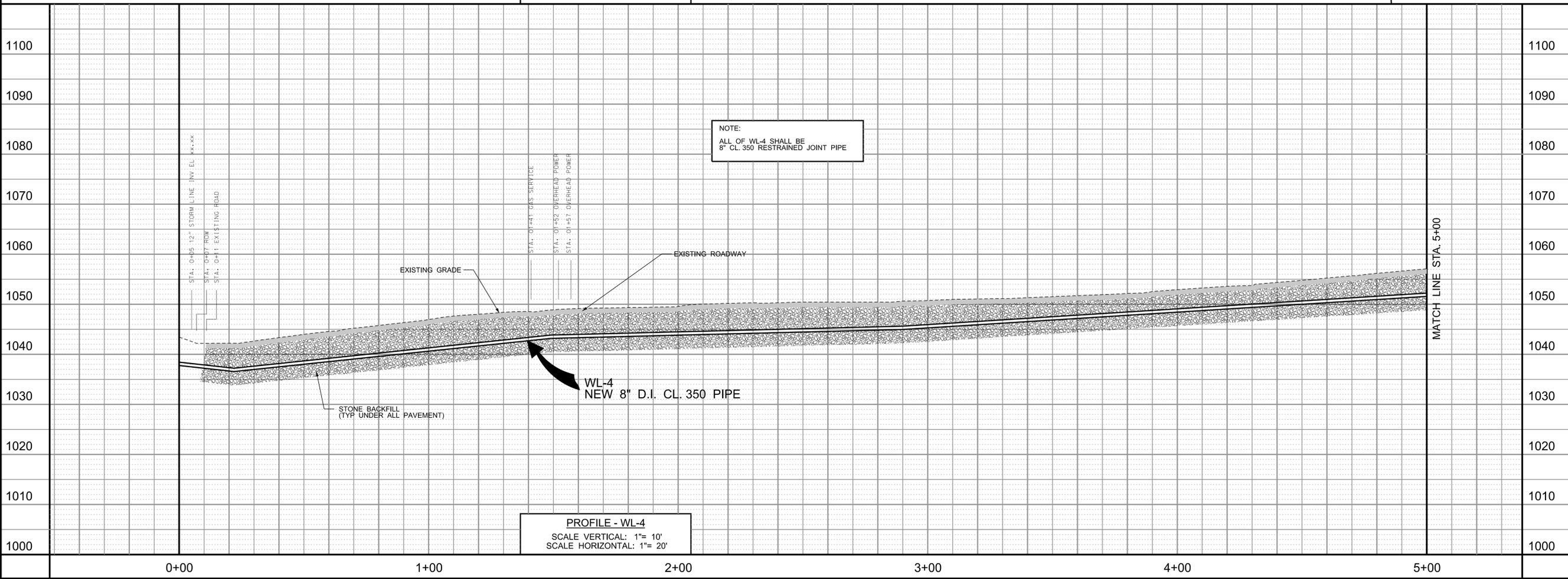
- 1- 8" D.I. 90° BEND, ALL RJ
- 1- 8" D.I. GATE VALVE, ALL RJ
- 1- VALVE BOX AND LID
- 1- CONCRETE BRACE

**STA. 1+55+/-, WL-4  
FURNISH AND INSTALL**

- 1- 8" D.I. TEE, ALL RJ
- 3- 8" D.I. GATE VALVES, ALL RJ
- 1- 8" x 6" D.I. REDUCER, ALL RJ
- 1- 6" D.I. SLEEVE, ALL RJ
- 3- VALVE BOXES AND LIDS
- 1- CONCRETE LOCATOR PAD
- 1- CONCRETE BRACE
- 1- CONNECTION TO EXISTING SYSTEM
- 1- FIRE HYDRANT ASSEMBLY

**PLAN - WL-4**  
SCALE: 1"= 20'

NOTE:  
NEW WATER LINE SHALL BE TESTED AND DISINFECTED BEFORE CONNECTING SERVICES



**PROFILE - WL-4**  
SCALE VERTICAL: 1"= 10'  
SCALE HORIZONTAL: 1"= 20'

NOTE:  
ALL OF WL-4 SHALL BE 8" CL. 350 RESTRAINED JOINT PIPE



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COMMERCIAL  
RESIDENTIAL

CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER  
TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



**PROJECT INFO:**  
INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-4  
STA. 0+00 TO  
STA. 5+00

SCALE: 1"= 20'  
SHEET 14 OF 20

**WM-10**

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CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER  
TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



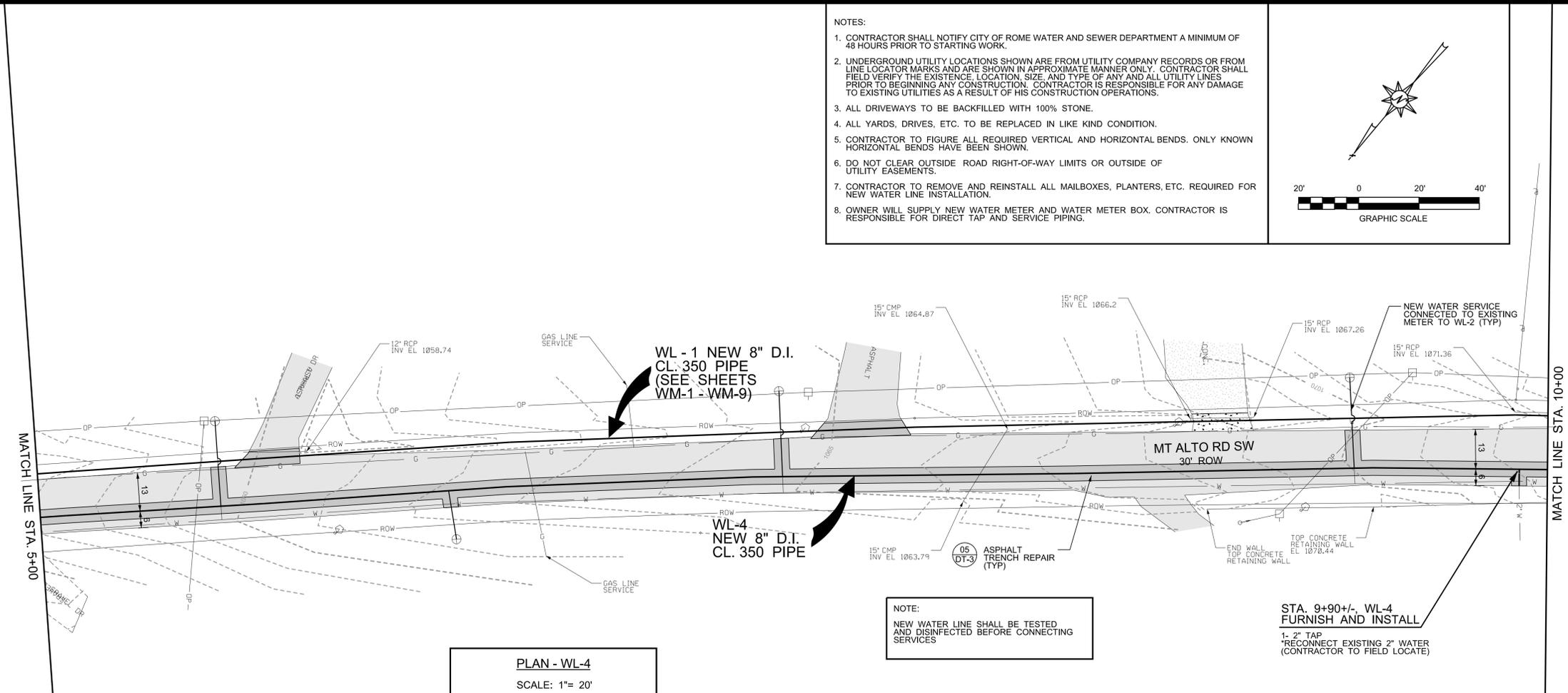
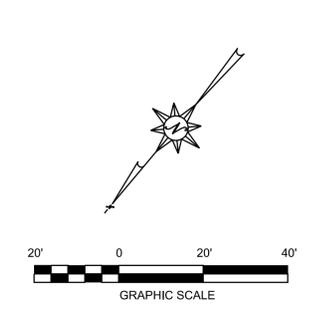
**PROJECT INFO:**  
INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



3/1/18  
THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-4  
STA. 5+00 TO  
STA. 10+00  
SCALE: 1"= 20'  
SHEET 15 OF 20

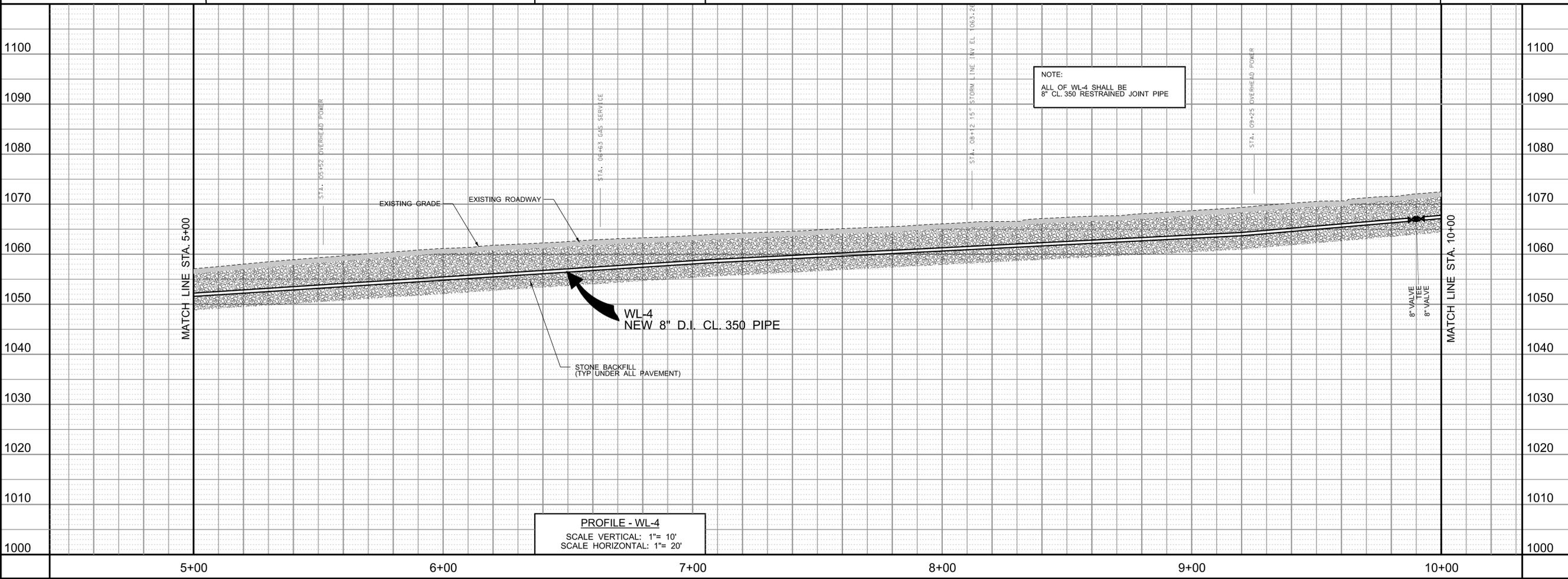
**WM-11**

- NOTES:
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  8. OWNER WILL SUPPLY NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR DIRECT TAP AND SERVICE PIPING.



NOTE:  
NEW WATER LINE SHALL BE TESTED AND DISINFECTED BEFORE CONNECTING SERVICES

STA. 9+90+/- WL-4 FURNISH AND INSTALL  
1- 2" TAP  
\*RECONNECT EXISTING 2" WATER (CONTRACTOR TO FIELD LOCATE)



NOTE:  
ALL OF WL-4 SHALL BE 8" CL. 350 RESTRAINED JOINT PIPE

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CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER  
TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION

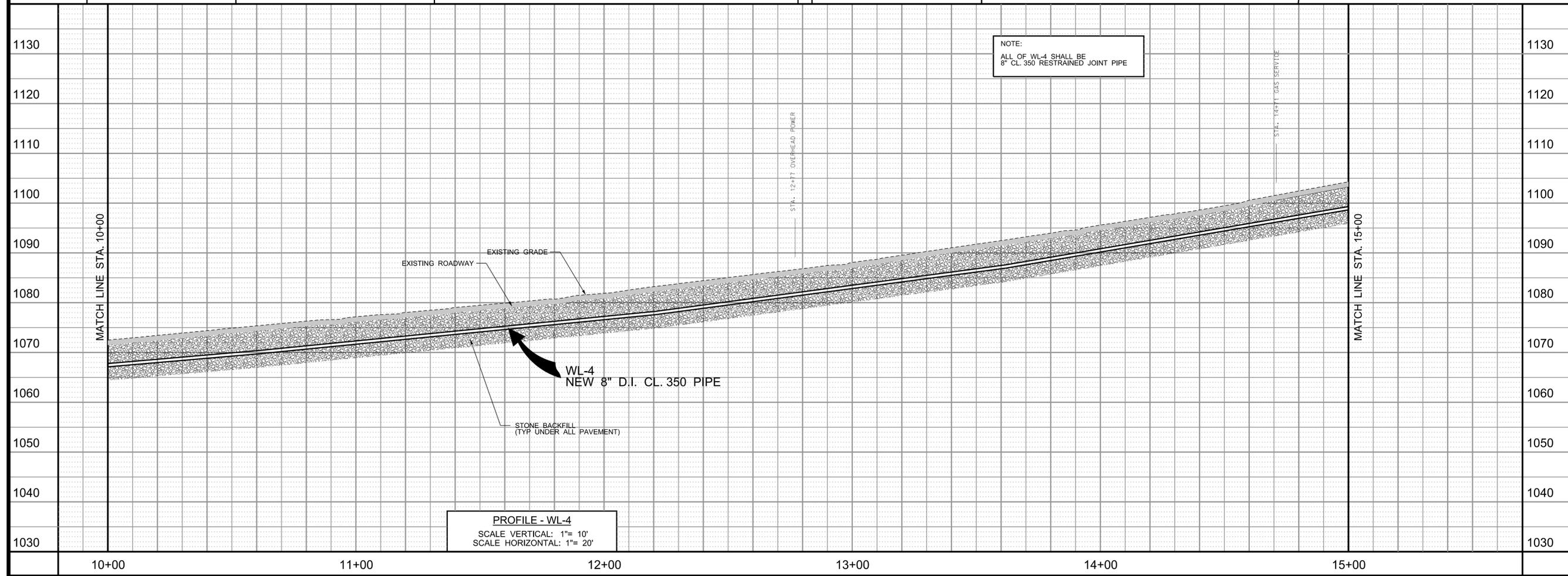
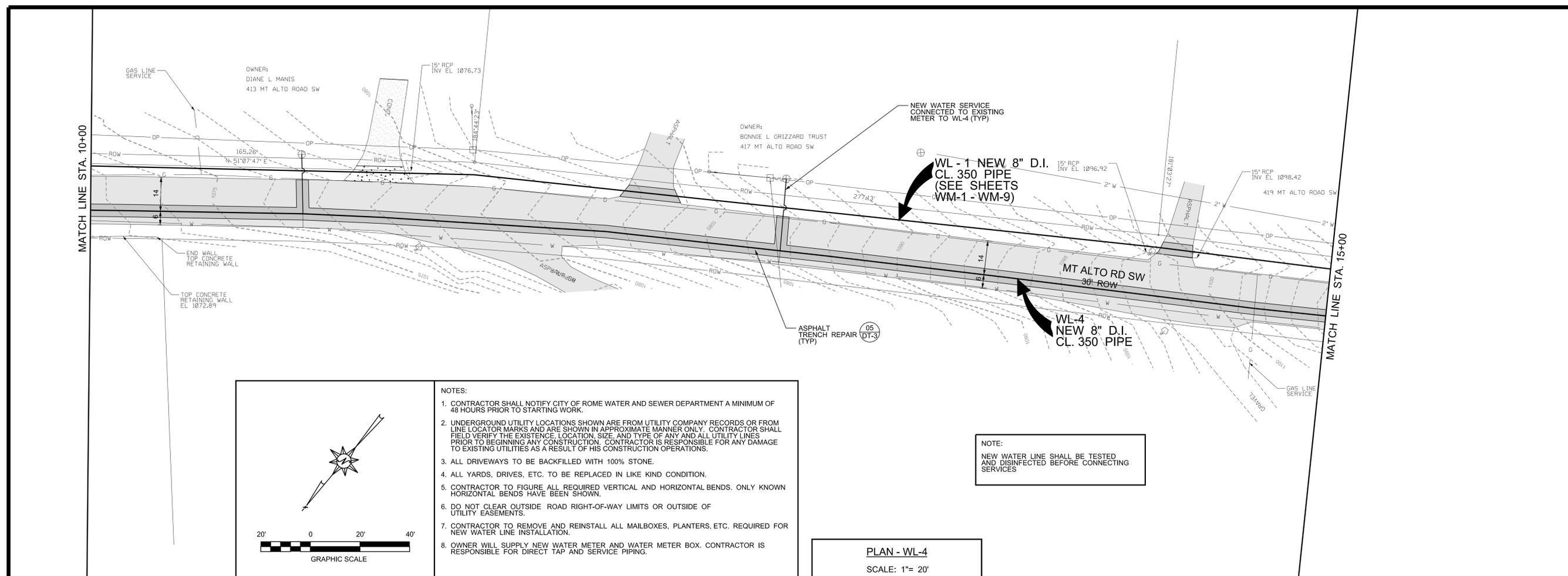


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PLOTTED: 3/1/18  
ISSUED FOR BIDDING

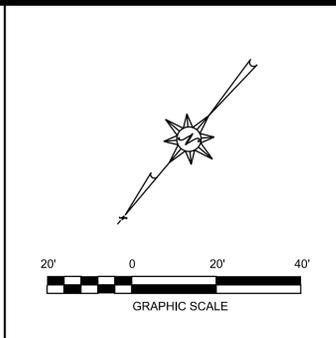
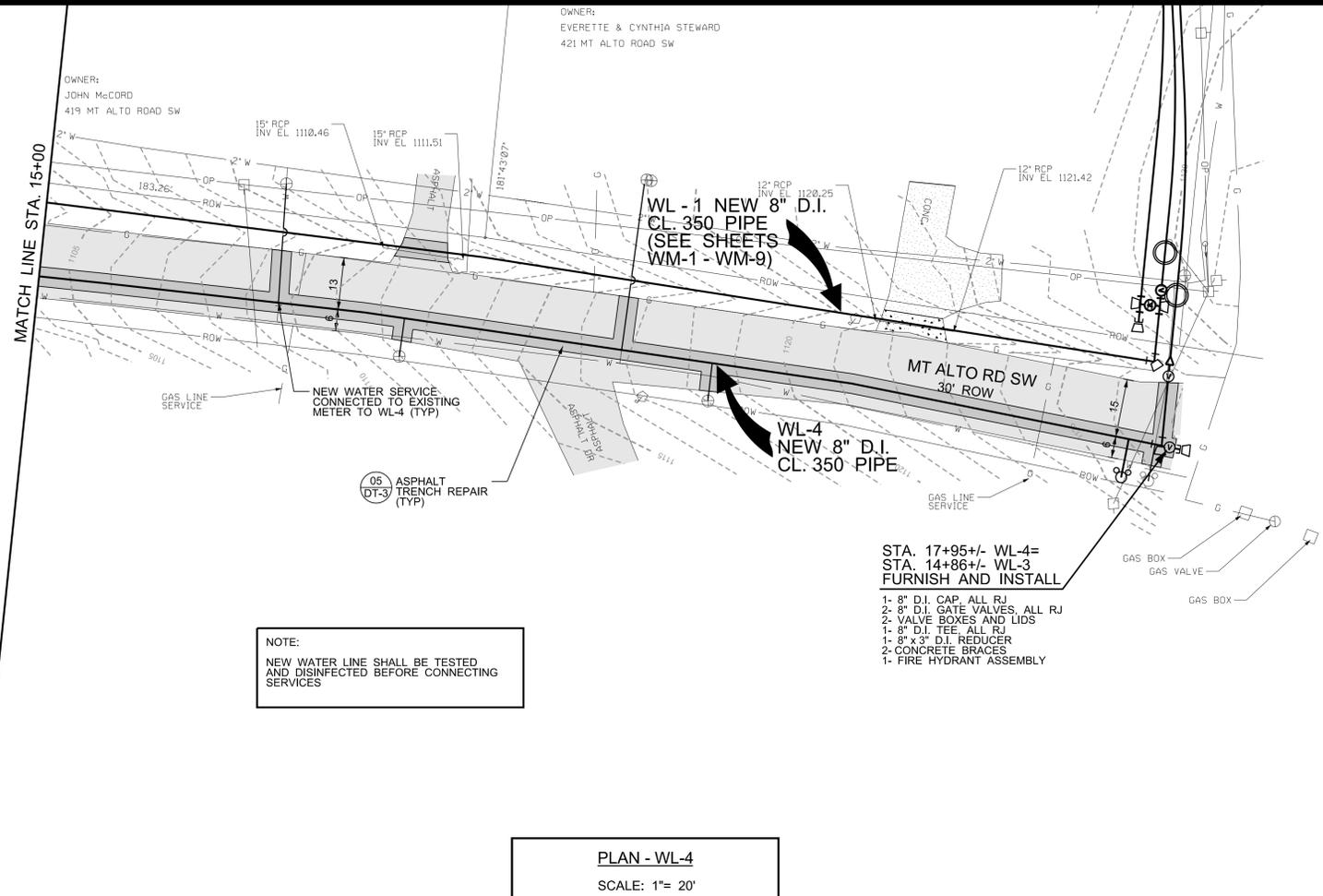


THIS SHEET CONTAINS:  
WATER MAIN  
PLAN  
AND PROFILE - WL-4  
STA. 10+00 TO  
STA. 15+00  
SCALE: 1"= 20'  
SHEET 16 OF 20

**WM-12**



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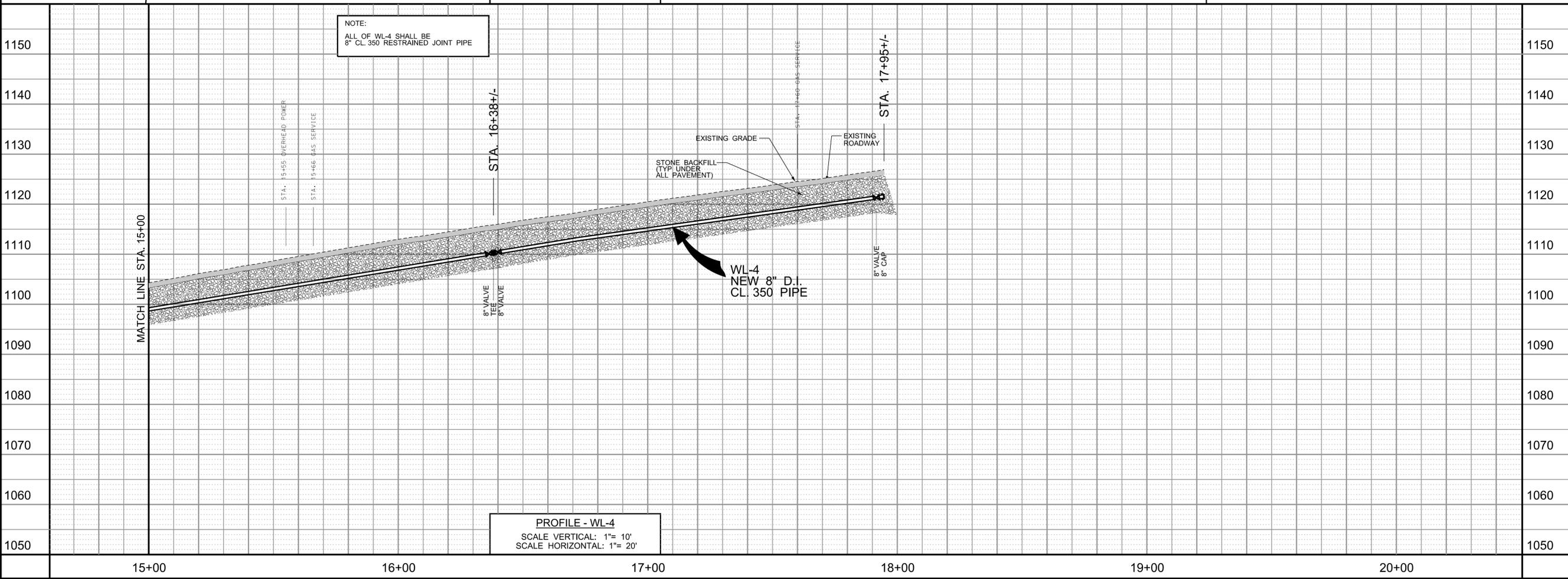
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RESIDENTIAL

NOTE:  
NEW WATER LINE SHALL BE TESTED AND DISINFECTED BEFORE CONNECTING SERVICES

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**PLAN - WL-4**  
SCALE: 1" = 20'

NOTE:  
ALL OF WL-4 SHALL BE 8" CL. 350 RESTRAINED JOINT PIPE



CONSTRUCTION PLANS FOR:

**MT. ALTO - WATER TRANSMISSION MAIN**

CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



PROJECT INFO:  
INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING

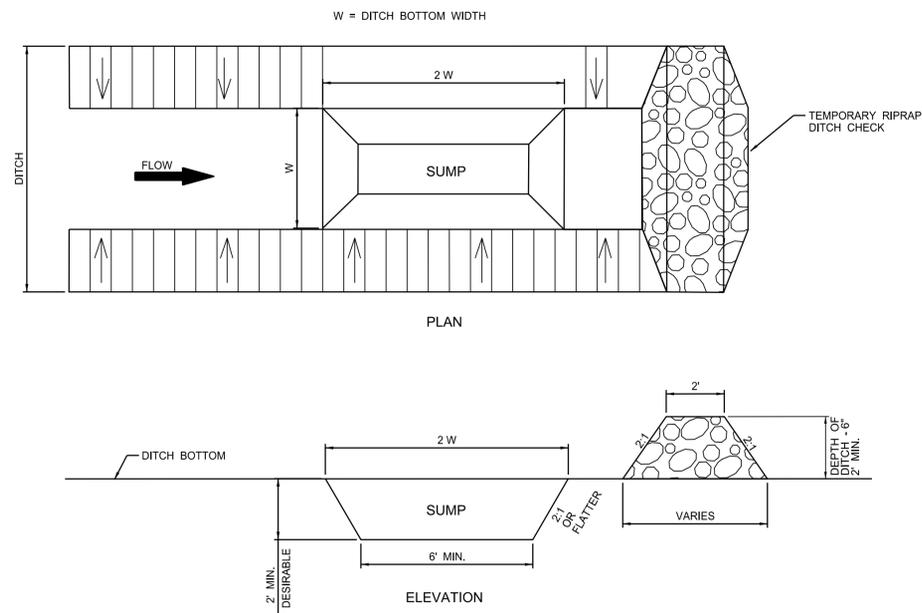


THIS SHEET CONTAINS:  
WATER MAIN PLAN AND PROFILE - WL-4  
STA. 15+00 TO STA. 17+95  
SCALE: 1" = 20'  
SHEET 19 OF 20

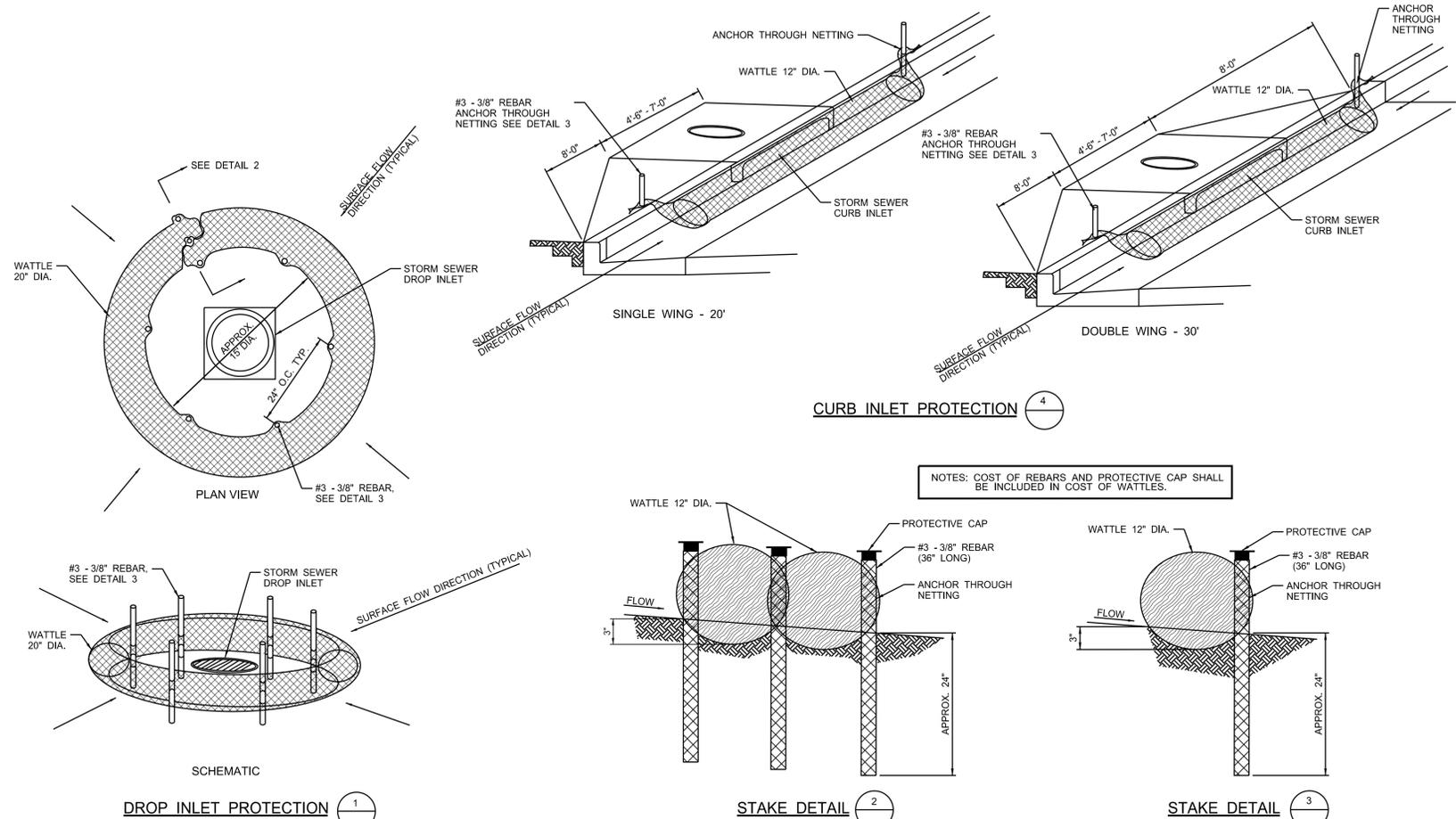
**WM-13**

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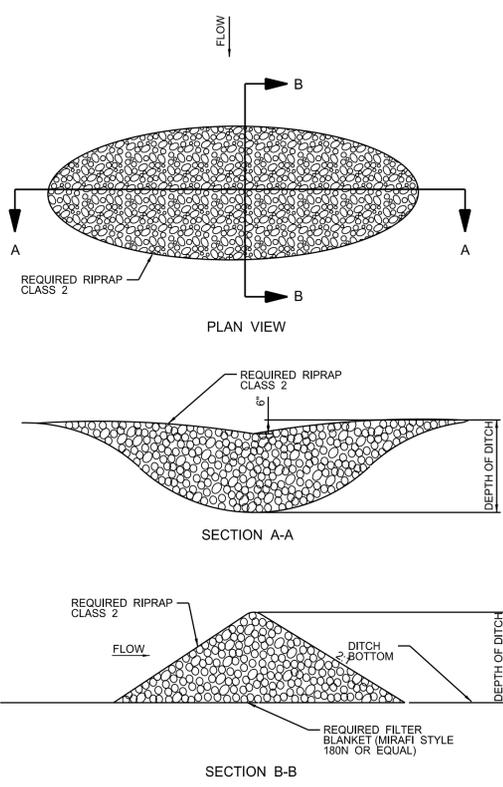
- GENERAL NOTES**
- TOTAL VOLUME OF SUMP EXCAVATIONS SHOULD BE APPROX. 67 CU. YDS. PER ACRE OF DISTURBED SOIL RUNOFF.
  - WHERE 67 CU. YDS. OR MORE IS REQUIRED AND SPACE IS LIMITED, MORE THAN ONE SUMP MAY BE REQUIRED.
  - WHERE SEDIMENT RETENTION IS NEEDED, BUT ROCK OUTCROPPING PREVENTS NORMAL EXCAVATION, AN ADEQUATE TEMPORARY DITCH CHECK ONLY SHALL BE INSTALLED.
  - ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED TO MAINTAIN SIZE OF DRAINAGE SUMP SHOWN. COST OF SEDIMENT REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF DRAINAGE SUMP EXCAVATION.



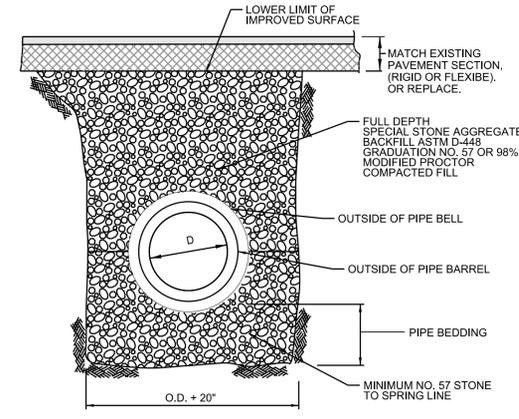
**DETAIL - DRAINAGE SUMP EXCAVATION**  
SCALE: NONE



**DETAIL - DROP INLET PROTECTION AND CURB INLET PROTECTION**  
SCALE: NONE

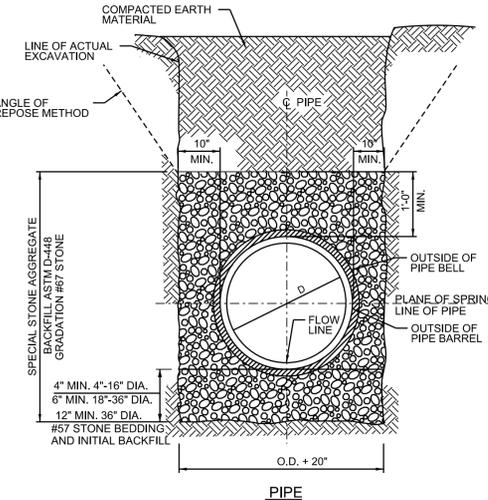


**DETAIL - RIPRAP DITCH CHECK**  
SCALE: NONE



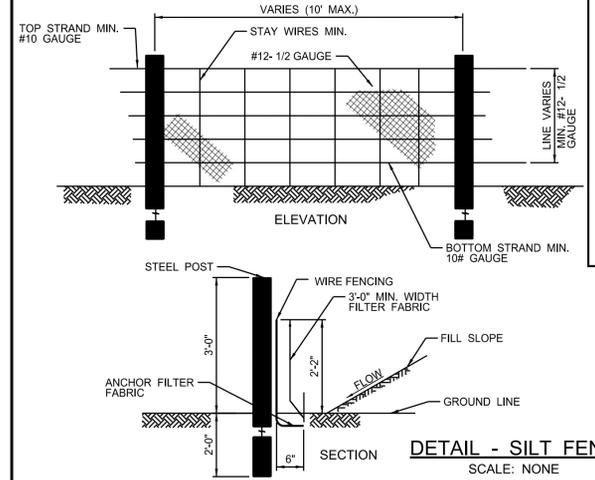
- TRENCH CONFIGURATION SHOWN DEPICTS THE USE "TRENCHWALL SHORING" METHOD, WHICH SHALL BE USED UNDER ALL PAVED AREAS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL REFER TO APPLICABLE "O.S.H.A. REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".

**DETAIL - PIPE BEDDING & BACKFILL UNDER PAVEMENT**  
SCALE: NONE

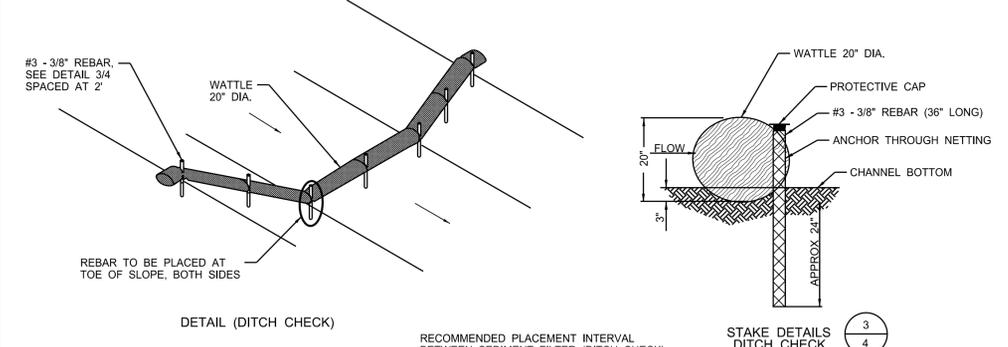


- NOTES:**
- ONLY ACCEPTABLE GRANULAR MATERIAL WILL BE CONSIDERED FOR SELECT EARTH MATERIAL. MATERIAL MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND THE RESULTS OF THE STANDARD PROCTOR DENSITY TEST AND THE COMPACTION TEST SHALL BE SUBMITTED TO THE ENGINEER.
  - ALL PIPE SHALL HAVE A MINIMUM DEPTH OF 4" PIPE BEDDING IN A SOIL TRENCH, AND A MINIMUM DEPTH OF 6" PIPE BEDDING IN A ROCK TRENCH.

**DETAIL - PIPE BEDDING & BACKFILL UNIMPROVED SURFACES**  
SCALE: NONE



**DETAIL - SILT FENCE**  
SCALE: NONE



**DETAIL - WATTLE DITCH CHECK**  
SCALE: NONE



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CONSTRUCTION PLANS FOR:  
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PLOTTED: 3/1/18  
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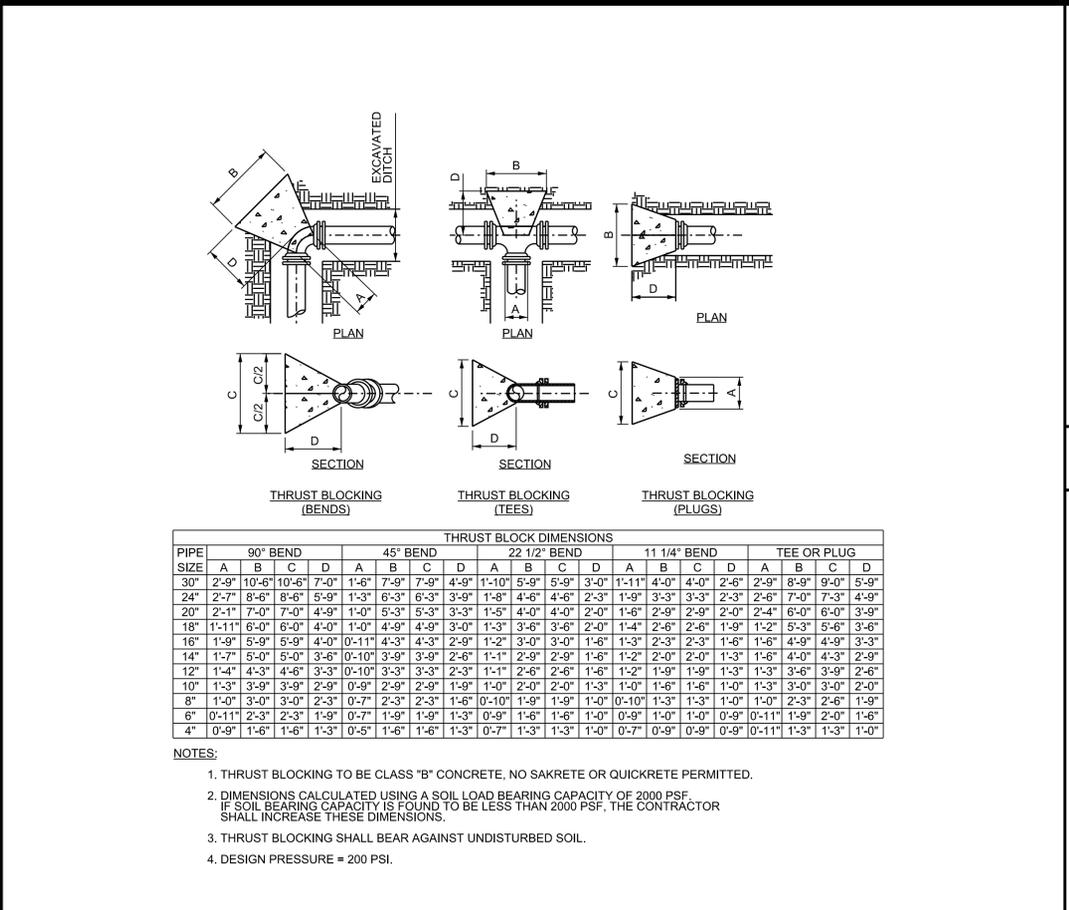


THIS SHEET CONTAINS:  
EROSION CONTROL  
AND PIPE BEDDING  
DETAILS

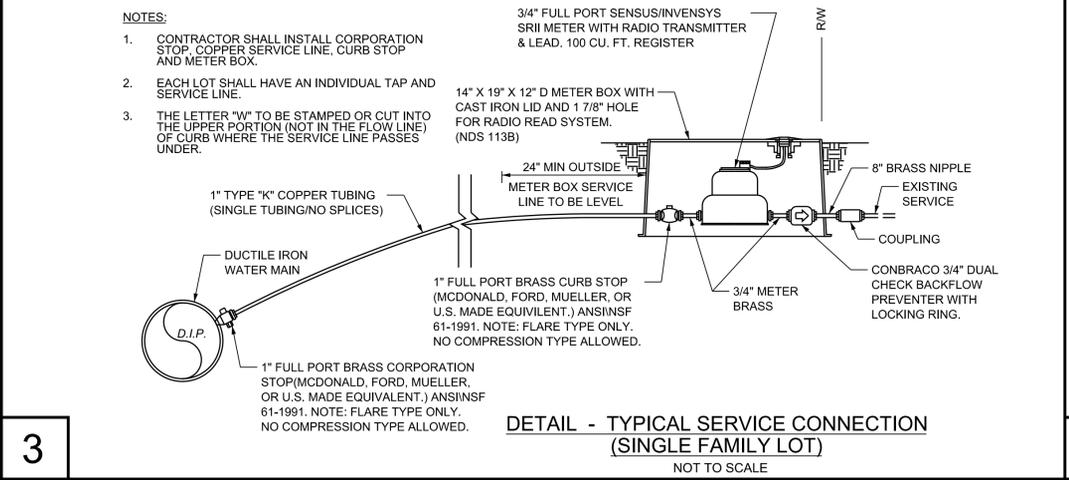
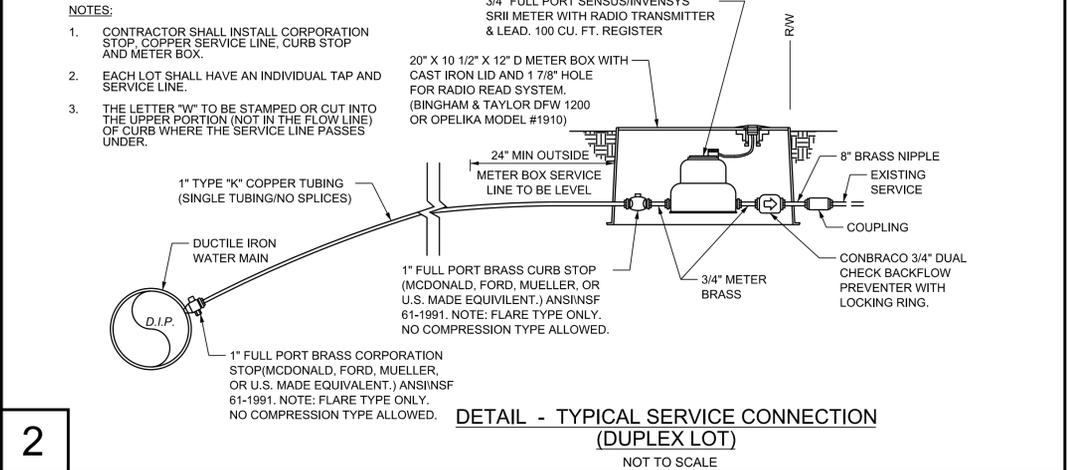
SCALE: NONE  
SHEET 18 OF 20

**DT-1**

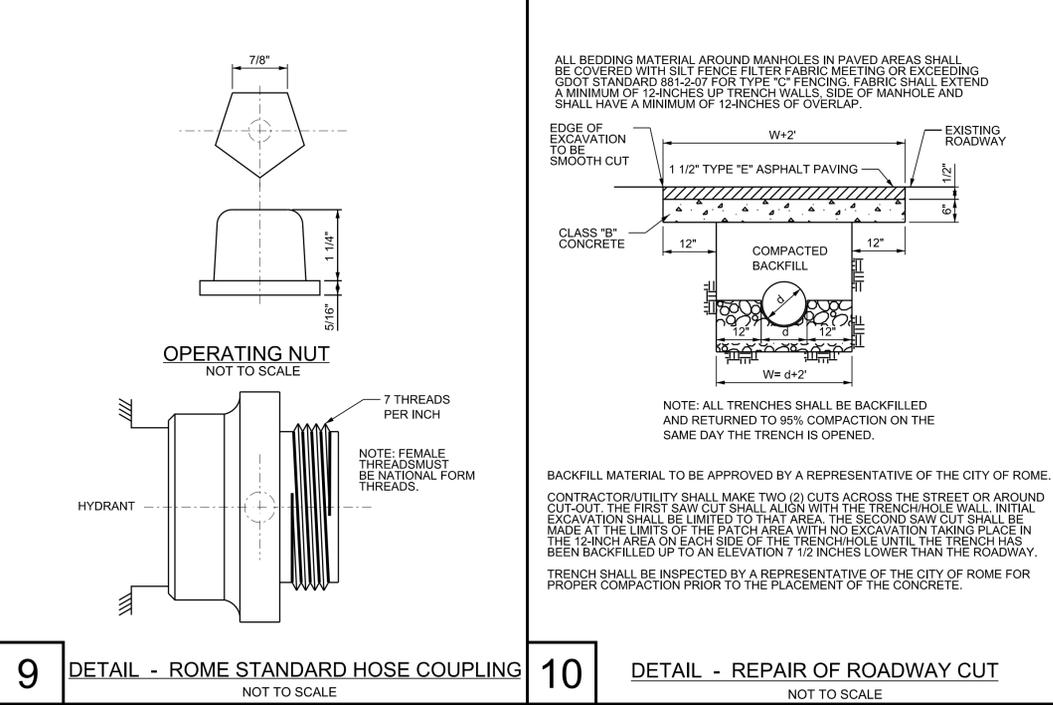
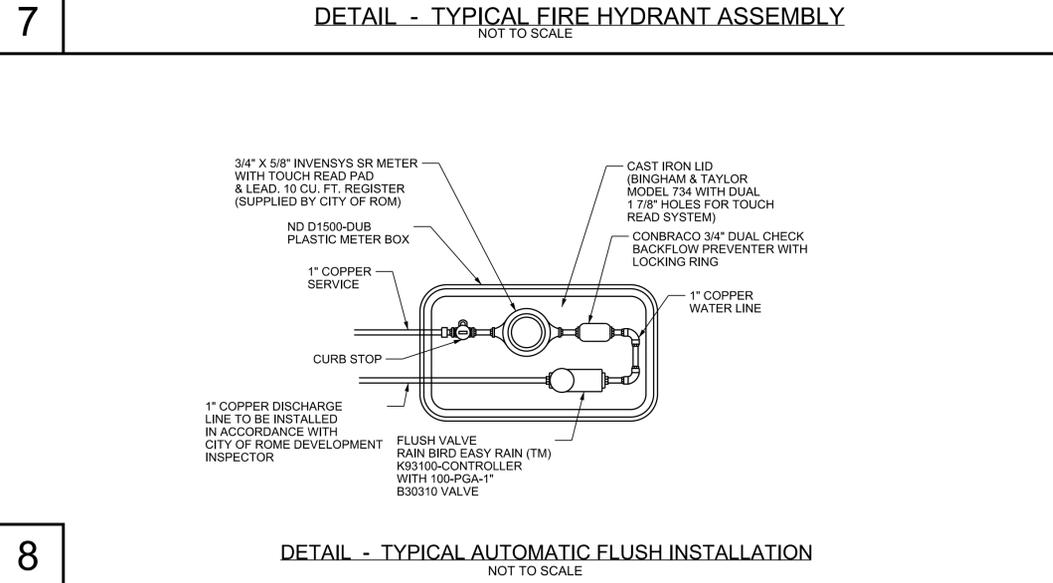
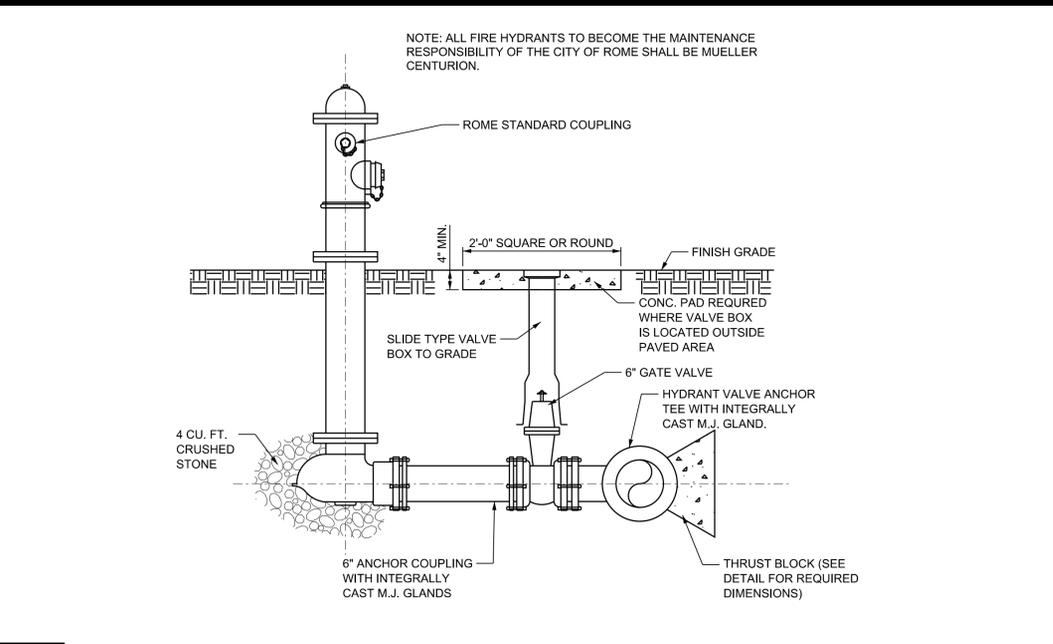
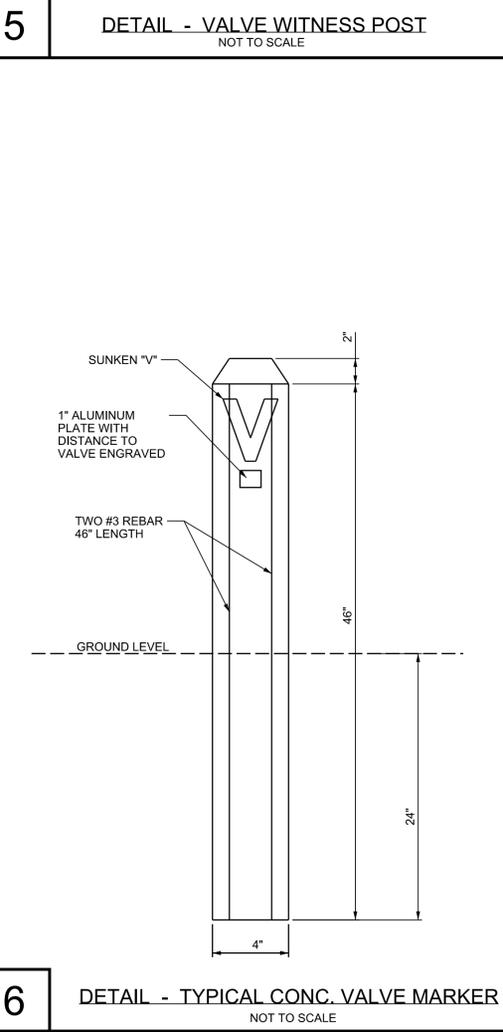
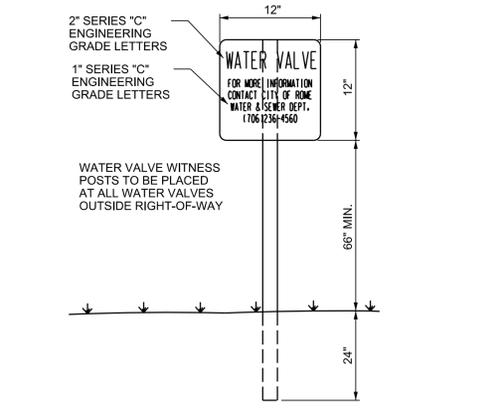
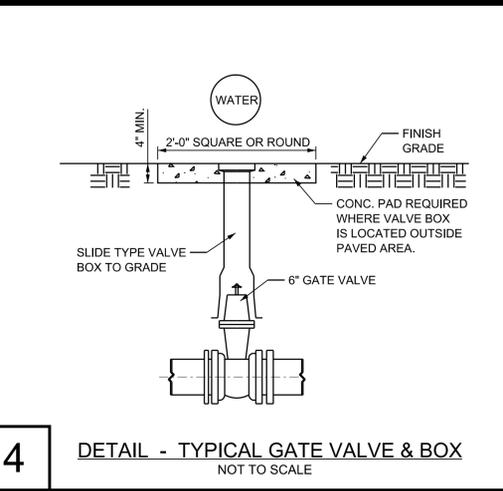
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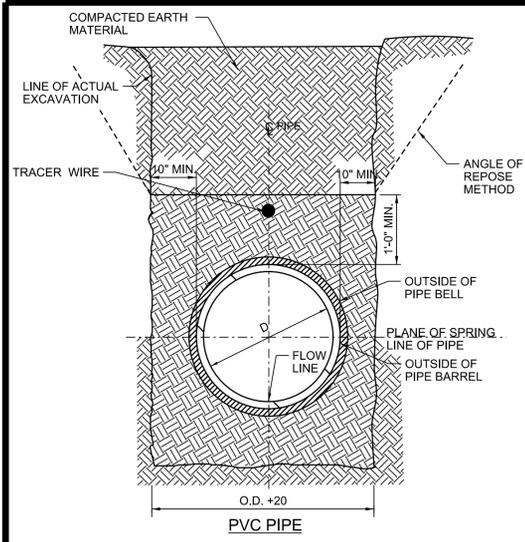
**1** DETAIL - TYPICAL THRUST BLOCKING  
 NOT TO SCALE



**3** DETAIL - TYPICAL SERVICE CONNECTION (SINGLE FAMILY LOT)  
 NOT TO SCALE

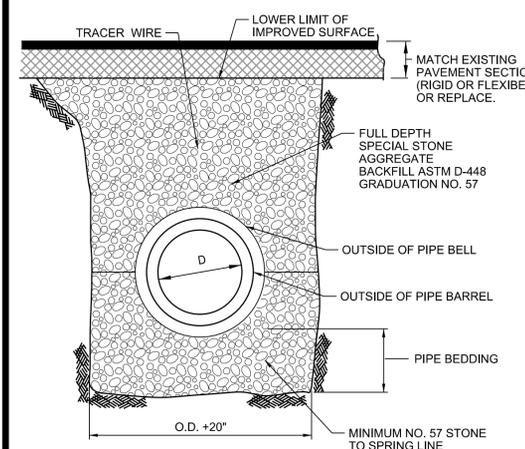


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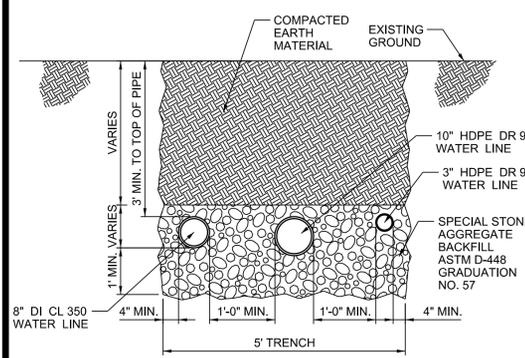
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  2. ALL PIPE SHALL HAVE A MINIMUM DEPTH OF 4" PIPE BEDDING IN A SOIL TRENCH, AND A MINIMUM DEPTH OF 6" PIPE BEDDING IN A ROCK TRENCH.
  3. IF ROCK OR UNSUITABLE SOILS ARE PRESENT, PIPE SHALL BE WRAPPED WITH #8910 OR #57 STONE 6" ON SIDES, 12" BELOW AND 12" ABOVE.

**1** PIPE BEDDING & BACKFILL UNIMPROVED SURFACES  
SCALE: NONE

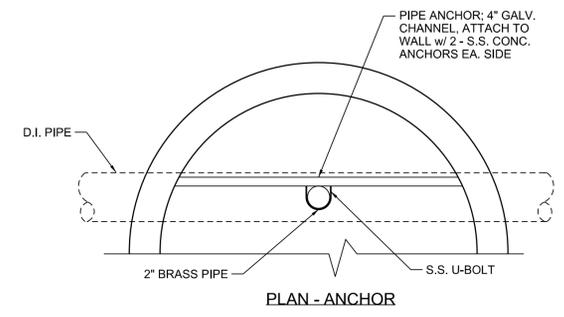


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2. THE CONTRACTOR SHALL REFER TO APPLICABLE "O.S.H.A. REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".

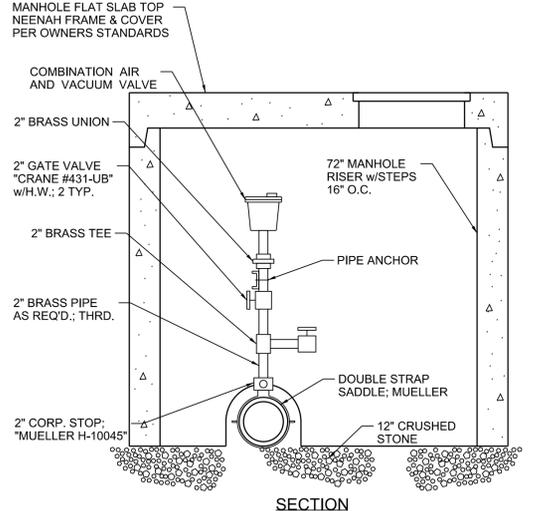
**2** PIPE BEDDING & BACKFILL UNDER PAVEMENT  
SCALE: NONE



**3** DETAIL - PIPE BEDDING, WL-1 STA. 0+20 - 16+59  
SCALE: NONE

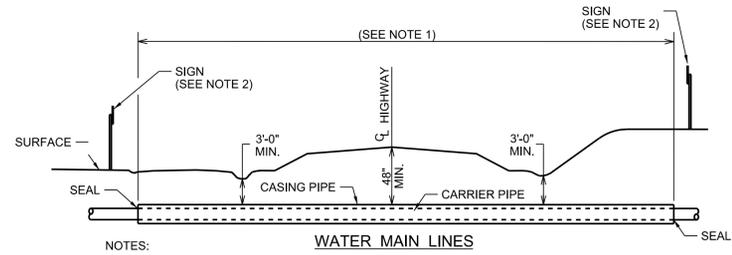


PLAN - ANCHOR



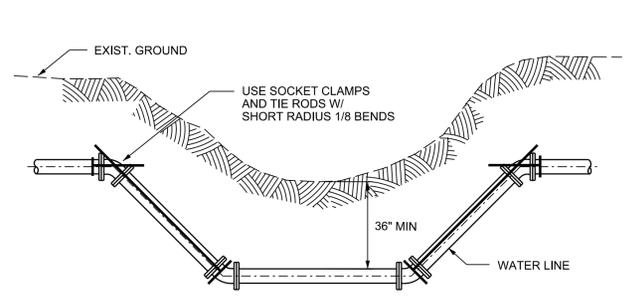
SECTION

**4** DETAIL - AUTOMATIC AIR RELEASE VALVE  
SCALE: NONE

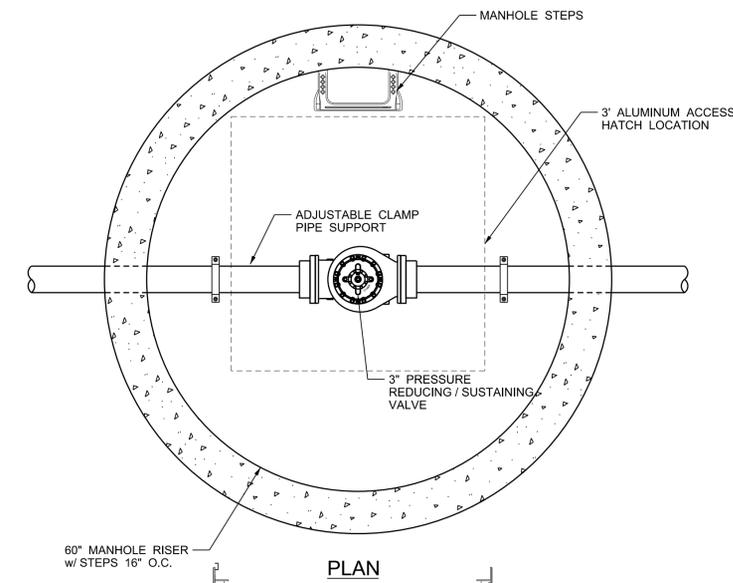


- NOTES:
1. CASING SHALL EXTEND TO THE GREATER OF THE FOLLOWING DISTANCES:
    - A. 2' BEYOND TOE OF SLOPE
    - B. 3' BEYOND DITCH LINE
    - C. MIN. OF 25' WHEN CASING IS SEALED AT BOTH ENDS.
  2. SIGN TO INDICATE LOCATION OF PIPE LINE AT R.O.W. LINE, KIND OWNERSHIP, AND DEPTH OF PIPE LINE.
  3. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE AT LEAST TWO INCHES GREATER THAN LARGEST DIAMETER OF CARRIER PIPE. JOINTS OR COUPLINGS FOR CARRIER PIPES LESS THAN 6" IN DIAMETER AND AT LEAST 4" GREATER FOR CARRIER PIPES 6" AND OVER IN DIAMETER.
  4. WATER LINE MUST BE BLOCKED WITH CASING SPACERS INSIDE CASING PIPE TO MAINTAIN ALIGNMENT.

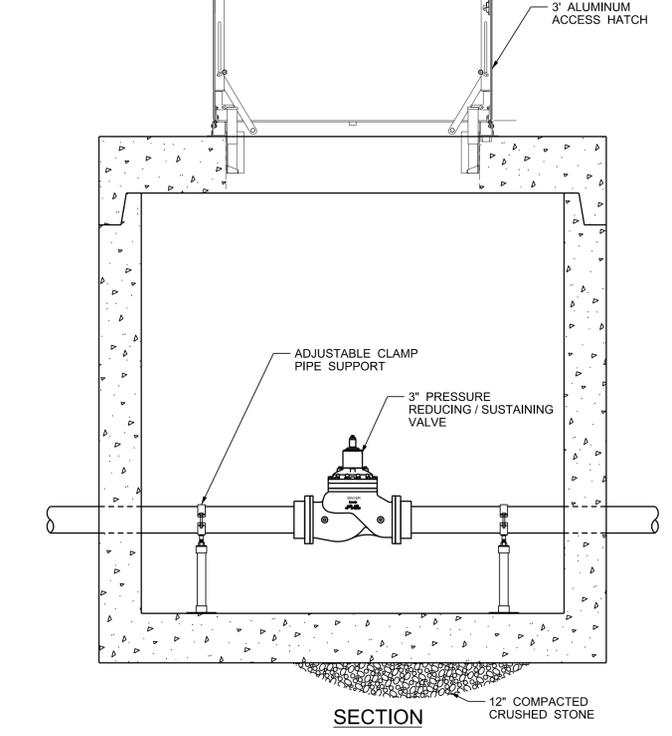
**5** BORE AND ENCASEMENT UNDER HIGHWAYS  
SCALE: NONE



**6** TYPICAL ANCHORAGE FOR CHANGES IN VERTICAL DIRECTION  
SCALE: NONE

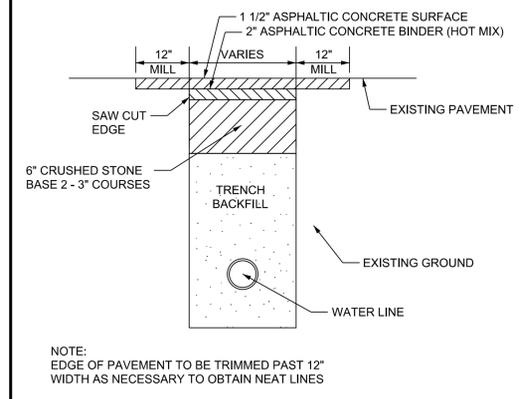


PLAN

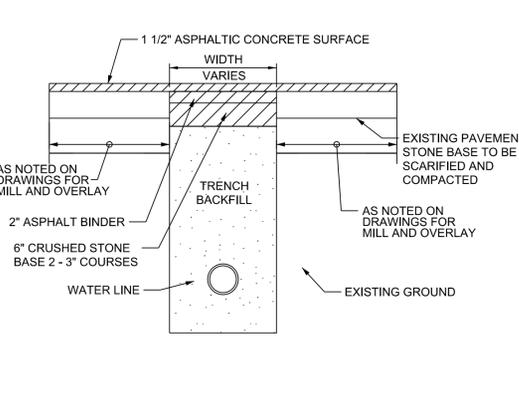


SECTION

**7** DETAIL - PRESSURE REDUCING/SUSTAINING VALVE  
SCALE: NONE



**8** DETAIL - TYPICAL SECTION PAVEMENT REPAIRS TRENCH PATCH  
SCALE: NONE



**9** DETAIL - TYPICAL SECTION PAVEMENT REPAIRS OVERLAY WITH TRENCH REPAIR  
SCALE: NONE



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PLANNING  
COMMERCIAL  
RESIDENTIAL

CONSTRUCTION PLANS FOR:  
**MT. ALTO - WATER TRANSMISSION MAIN**  
CITY OF ROME, GEORGIA  
WATER AND SEWER DIVISION



PROJECT INFO:  
INSITE JOB No. 16127.00  
PLOTTED: 3/1/18  
ISSUED FOR BIDDING



THIS SHEET CONTAINS:  
MISCELLANEOUS DETAILS

SCALE: NONE  
SHEET 20 OF 20

**DT-3**

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