

CLOVERLEAF FILING 2
EL PASO COUNTY, COLORADO
PUBLIC UTILTY PLAN

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

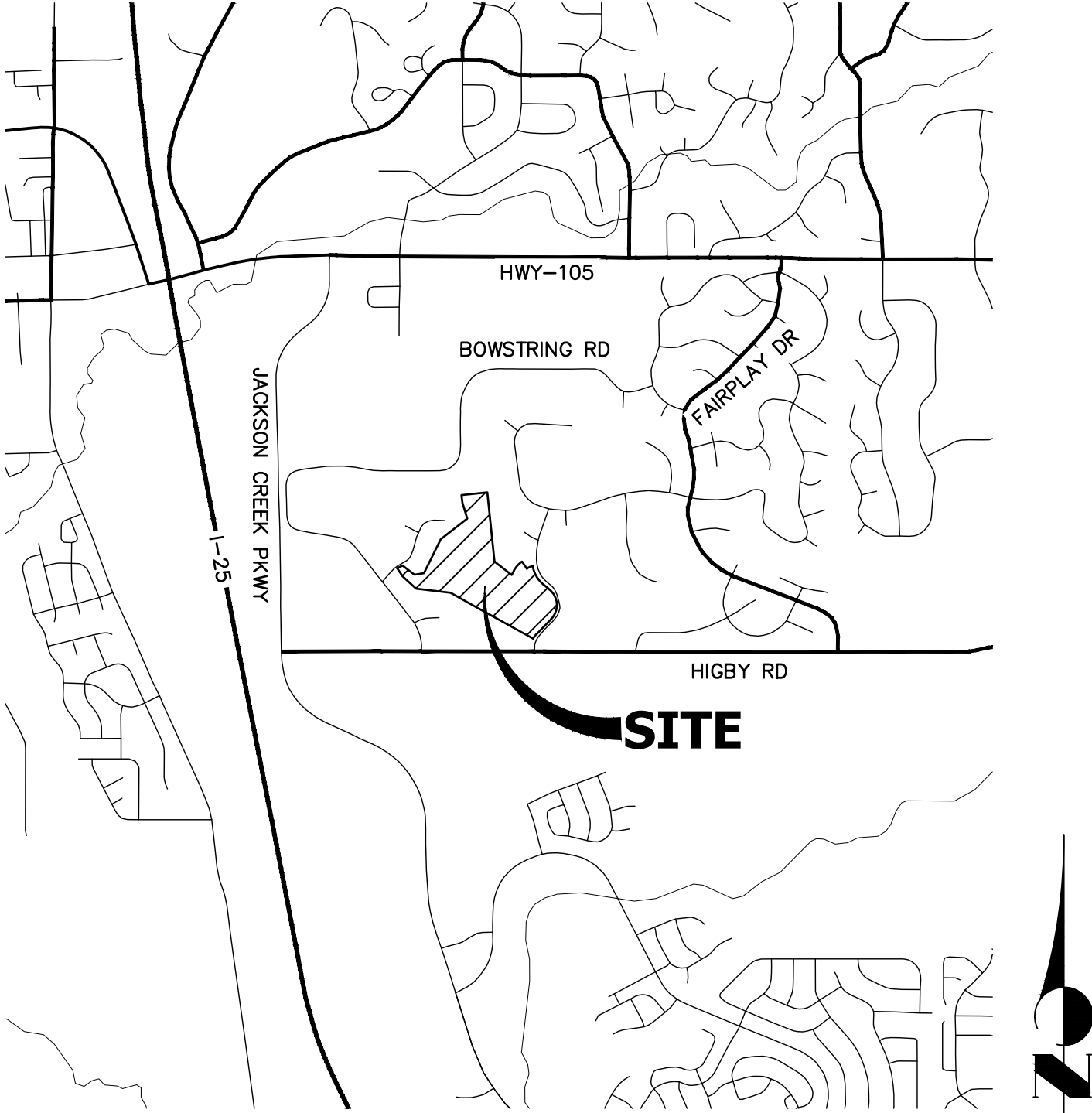
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS AND BRIDGE CONSTRUCTION CDOT M&S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSIONS OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

STANDARD NOTES FOR WOODMOOR CONSTRUCTION PLANS

- ALL MATERIALS AND INSTALLATION PROCEDURES WILL BE IN COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND THE RULES AND REGULATIONS OF THE DISTRICT.
- DEVELOPER/OWNER OR CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND OBTAINING ANY AND ALL PERMITS REQUIRED TO PERFORM THE WORK FROM ALL APPLICABLE REGULATORY AGENCIES OR ENTITIES HAVING JURISDICTION, AND WILL PERFORM THE WORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE ORDINANCES, REGULATIONS, LAWS AND PERMITS ISSUED BY SUCH ENTITIES OR AGENCIES.
- CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ELEVATIONS, PIPE SIZE, TYPE, ALIGNMENT, ECT. OF EXISTING WATER LINES AT ALL NOTED CONNECTION POINTS TO THE DISTRICTS SYSTEM.
- IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE SYSTEM SPECIFICATIONS, CONSULT THE DISTRICT PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 2 WORKING DAYS PRIOR TO PERFORMING SCHEDULED TESTS FOR OBSERVATION BY DISTRICT PERSONNEL.
- BYPASS PUMPING OF EXISTING FLOWS IS REQUIRED WHEN CONNECTING TO THE DISTRICT'S EXISTING SEWER SYSTEM. CONTRACTOR SHALL PROVIDE 100% REDUNDANT PUMPING CAPACITY WITH CONTINUOUS SUPERVISION DURING PUMPING OPERATIONS WITH THE DISTRICT PRIOR TO COMMENCING PUMPING OPERATIONS.
- THE COLORADO CENTRAL ZONE (NAD 83) IS THE HORIZONTAL CONTROL FOR IMPROVEMENTS SHOWN ON THE PLAN SET.
- THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88) IS THE VERTICAL CONTROL FOR THE IMPROVEMENTS SHOWN ON THE PLAN SET.

WATER AND SEWER SERVICE LINE NOTES

- SEWER SERVICE TAP CONNECTIONS WILL BE LOCATED A MINIMUM OF FIVE (5) FEET AWAY FROM ANY MANHOLE AND BE INSTALLED AT THE MAIN WITH A GASKET WYE OR TEE FITTING FOR NEW INSTALLATIONS OF SEWER MAIN. FOR SERVICE TAP CONNECTIONS TO EXISTING SEWER MAINS A SEWER SERVICE SADDLE TAP MAY BE INSTALLED.
- SEWER SERVICE LINES/STUBS WILL BE INSTALLED SUCH THAT A SEWER SERVICE CLEAN OUT IS LOCATED 5 FEET INTO THE PROPERTY OR CENTERED IN THE FRONT LOT EASEMENT, WHICHEVER IS LESS AND BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY SIDE LOT LINE. TRACER WIRE FROM THE SEWER TAP AT THE MAIN TO THE CLEAN OUT AT THE PROPERTY LINE SHALL BE INSTALLED AND A METAL TEE POST WILL BE INSTALLED NEXT TO THE CLEAN OUT FOR PROTECTION AND EASE OF LOCATION.
- A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN WATER SERVICE LINES AND SEWER SERVICE LINES.
- WATER SERVICE LINES/STUBS WILL BE 3" IN DIAMETER UNLESS OTHERWISE NOTED AND INSTALLED SUCH THAT THE CURB STOP IS LOCATED 5 FEET INTO THE PROPERTY OR CENTERED IN THE FRONT LOT EASEMENT, WHICHEVER IS LESS AND A MINIMUM OF 10 FEET FROM ANY SEWER SERVICE LINE/SEWER CLEAN OUT.
- CURB STOPS AND BOXES SHALL BE BURIED SUCH THAT 6-FEET (±0") OF COVER EXISTS AS MEASURED FROM FINISHED GRADE TO THE TOP OF THE SERVICE LINE. A METAL TEE POST WILL BE INSTALLED AT THE CURB STOP BOX FOR PROTECTION AND EASE OF LOCATION.
- WATER SERVICE TAPS WILL NOT BE LOCATED ON A FIRE HYDRANT LATERAL OR WITHIN 30" FROM A PIPE BELL, VALVE OR MECHANICAL JOINT CONNECTION. WATER TAPS WILL MAINTAIN MINIMUM OF FIVE (5) FOOT SPACING FROM OTHER TAPS ON THE WATER MAIN.
- DIRECT TAPPING OF WATER SERVICE LINE CORPORATION (I.E. NO SADDLE) WILL NOT BE PERMITTED.



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

- | | | |
|-------|---|---------------------------------|
| 1 | - | COVER SHEET |
| 2 | - | LEGEND & TYPICAL SECTION |
| 3-8 | - | SANITARY SEWER PLAN AND PROFILE |
| 9-10 | - | UNDER DRAIN |
| 11-15 | - | WATER DISTRIBUTION PLAN |
| 16-17 | - | RAW WATER PLAN |
| 18-19 | - | UTILITY SERVICE PLAN |
| 20-22 | - | DETAIL SHEETS |

CONTACTS:

OWNER/DEVELOPER	PT CLOVERLEAF, LLC 1864 WOODMOOR DRIVE, SUITE 100 COLORADO SPRINGS, CO 80920 P~719-476-0800
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: MIKE A. BRAMLETT 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~303-267-6240
FIRE PROTECTION DISTRICT	TRI-LAKES MONUMENT FPD 16055 OLD FOREST POINT, SUITE 103 MONUMENT, CO 80132 P~719-484-0911
DISTRICT	WOODMOOR WATER & SANITATION DISTRICT NO. 1 1845 WOODMOOR DRIVE MONUMENT, CO 80132 P~719-488-2525 EXT. 0

BENCHMARK

NGS MONUMENT T 294 BEING MONUMENTED BY A 3-1/4" BRASS DISC SET IN A 4'X4' BOULDER, LOCATED 1.8 MILES EAST ALONG HIGBY ROAD FROM ITS INTERSECTION WITH JACKSON CREEK PARKWAY, 40 FEET SOUTH OF THE CENTERLINE OF THE ROAD, 6 FEET SOUTH OF A FENCE, AND 6.2 FEET SOUTH OF A WITNESS POST. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 7247.10 FEET, NAVD88.

BASIS OF BEARING

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT, B, WOODMOOR PLACER, BEING MONUMENTED BY A 1-1/4" YELLOW PLASTIC CAP ILLEGIBLE AT BOTH ENDS. SAID LINE BEARING N26°20'33"E AS REFERENCED TO COLORADO STATE PLANE CENTRAL ZONE.

EL PASO COUNTY STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR ENGINEERING

MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING, LLC

WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
(719) 476-0800
JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Western Company
Central 303-740-9888 • Colorado Springs 719-583-2583
Fort Collins 970-491-9888 • www.jrengineering.com

BY	DATE	No.	REVISION	H-SCALE	V-SCALE	N/A	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	CLOVERLEAF FILING 2	COVER SHEET	SHEET 1 OF 21	JOB NO. 25158.01
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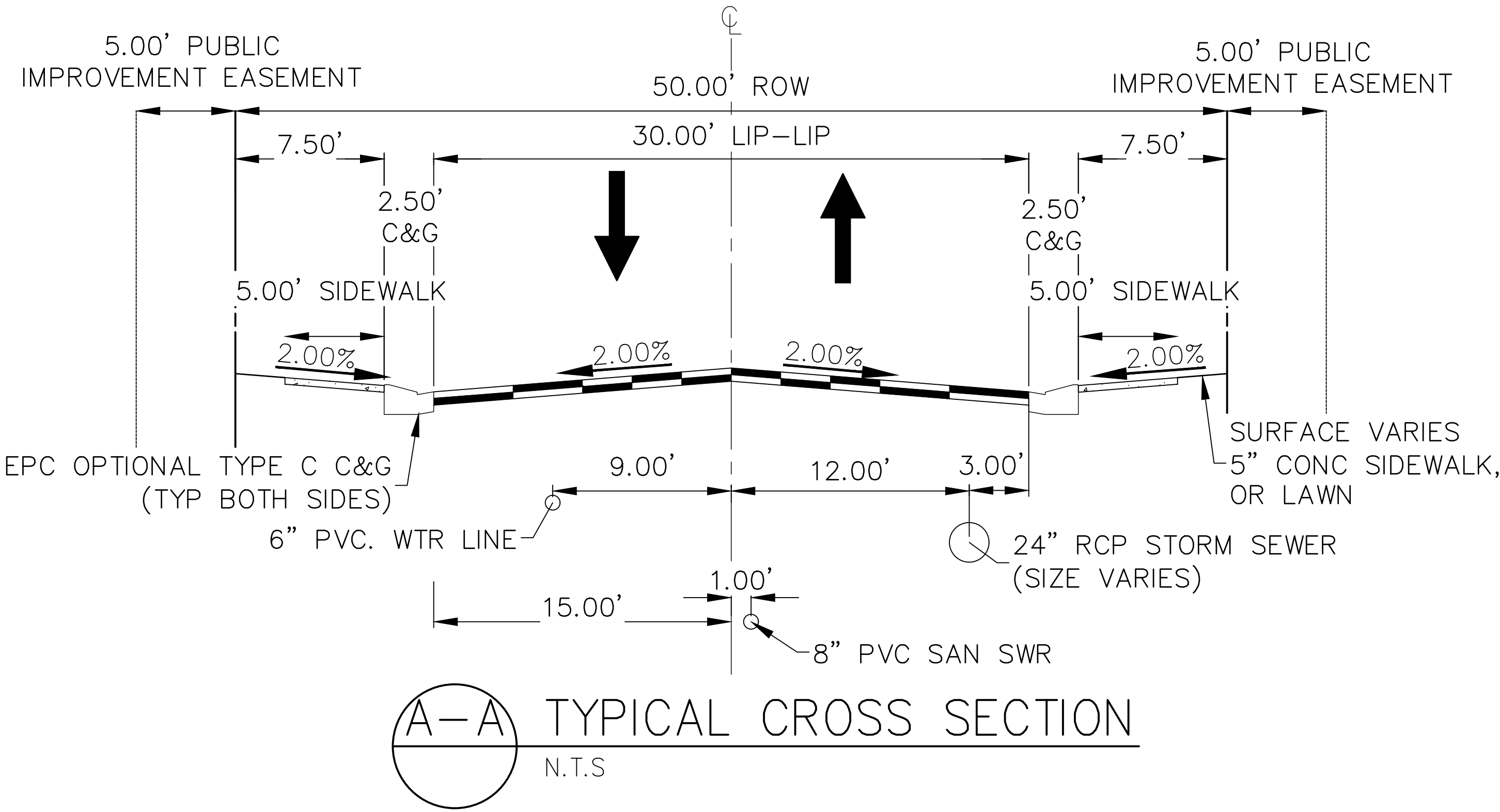
Know what's below.
Call before you dig.

LAYER LINETYPE LEGEND

	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE		
CENTERLINE		
CITY LIMITS		
WIRE FENCE		
CHAIN LINK FENCE		
WOOD FENCE		
MASONRY FENCE		
GUARDRAIL		
CONC. BARRIER		
CABLE TV		
ELECTRIC		
FIBER OPTIC		
GAS MAIN		
IRRIGATION MAIN		
OIL/PETRO. MAIN		
OVERHEAD UTILITY		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
WATER MAIN		
RAW WATER LINE		
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR		
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)		
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		
SILT FENCE		
100 YEAR FLOODPLAIN		
500 YEAR FLOODPLAIN		
FLOODWAY		
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
AREA INLET - SQUARE		
AREA INLET - ROUND		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
LINE MARKER		
SERVICE MARKER		
CLEAN-OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER		
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE		
BEND		
BLOW-OFF VALVE		
WELL		
METER		
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW-OFF ASSEMBLY		
GAS LINE		
MARKER		
SERVICE MARKER		
METER		
VALVE		
PLUG		
TEE		
DRY UTILITIES		
CABLE TV MARKER		
CABLE TELEVISION PEDESTAL		
ELECTRIC MARKER		
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL		
ELECTRICAL METER		
ELECTRICAL MANHOLE		
FIBER-OPTIC MARKER		
IRRIGATION PEDESTAL		
TELEPHONE MARKER		
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
UTILITY POLE		
GUY ANCHOR		
GUY POLE		
MISC. UTILITIES		
VENT PIPE		
TEST HOLE DESIGNATOR		



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

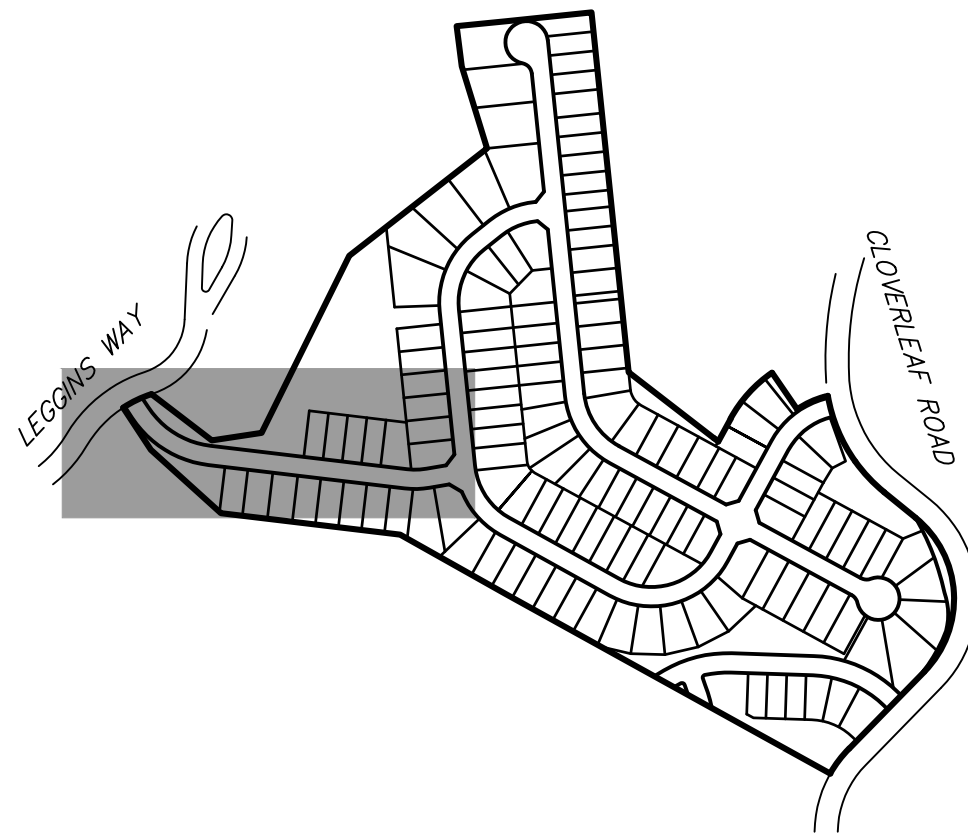
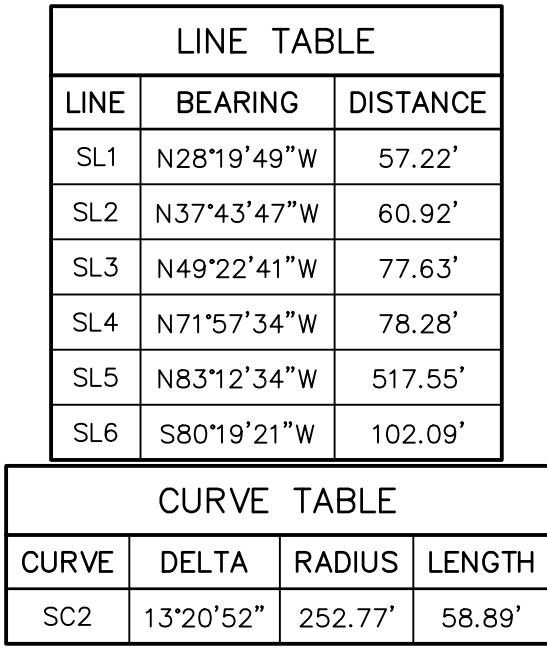
PREPARED FOR
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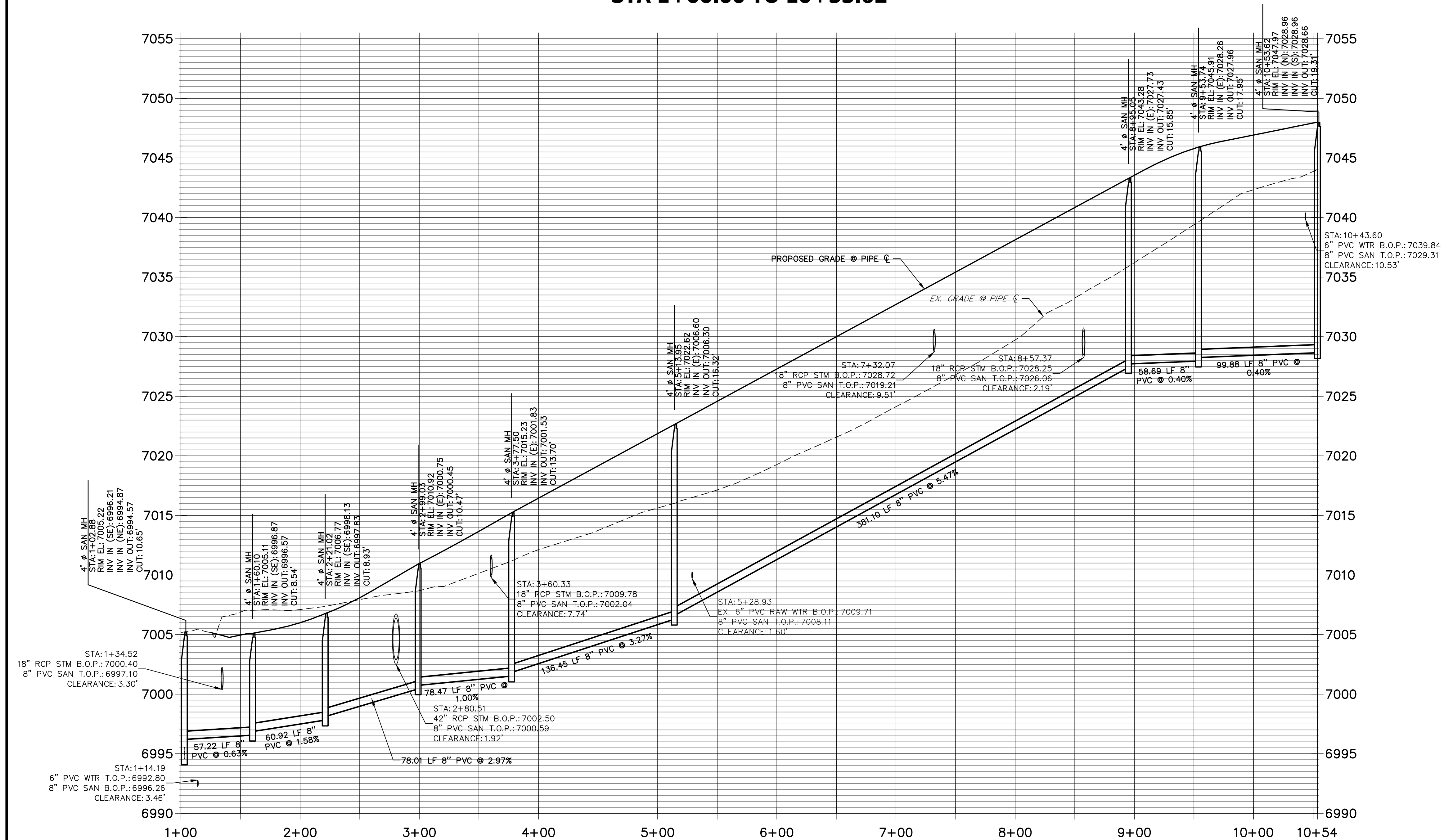
BY	DATE	REVISION	No.	N/A	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
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CLOVERLEAF FILING 2	SHEET 2 OF 21
LEGEND & TYPICAL SECTION	JOB NO. 25158.01





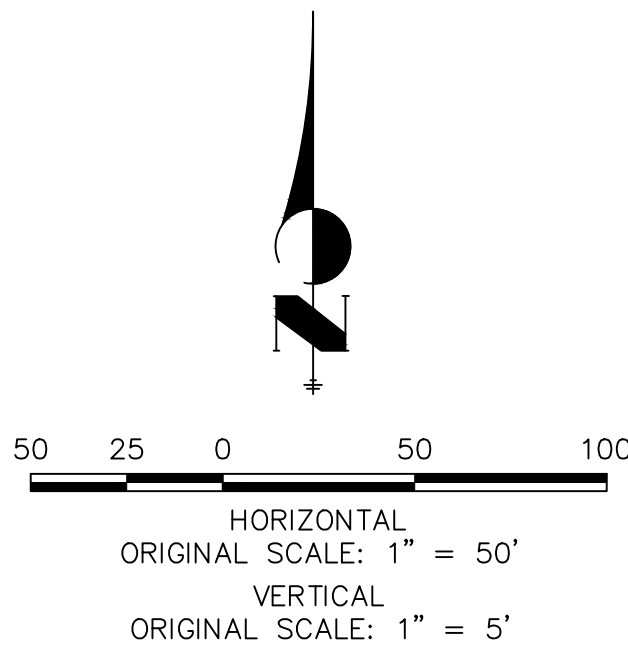
THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



1. A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED
SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED
SEE DETAILS SHEET 10.
2. THE PROPOSED UNDER DRAIN SHALL ONLY DEViate FROM THE
TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION
SEE SHEET 9.



Know what's **below**.
Call before you dig.



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

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PREPARED FOR

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JDESJARDIN@PROTERRACO.COM

ONLY FOR THE
DESIGNATED BY
AUTHORIZATION

J·R ENGINEERING
A Westrian Company



Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jenatire.com

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BY

No.	REVISION
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1"=50'

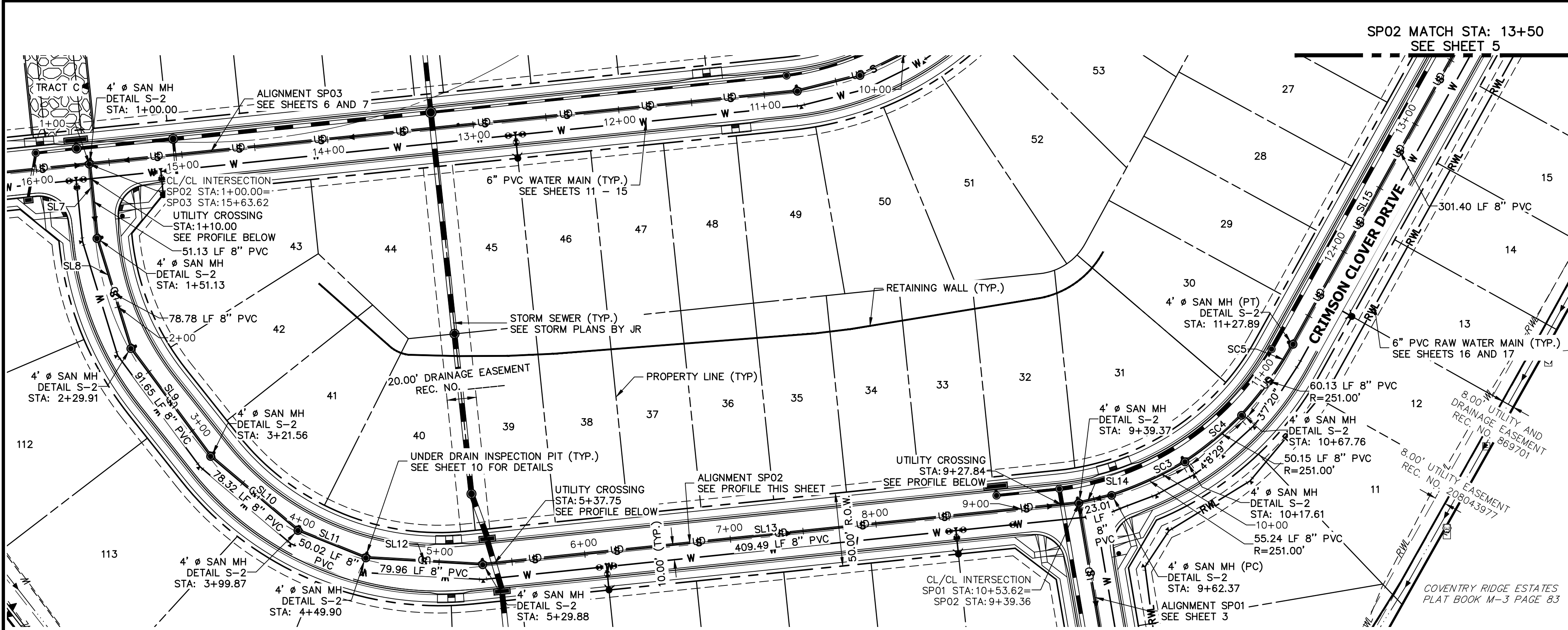
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CLOVERLEAF FILING 2

SANITARY SEWER PLAN AND PROFILE

SHEET 3 OF 21

JOB NO. 25158.01

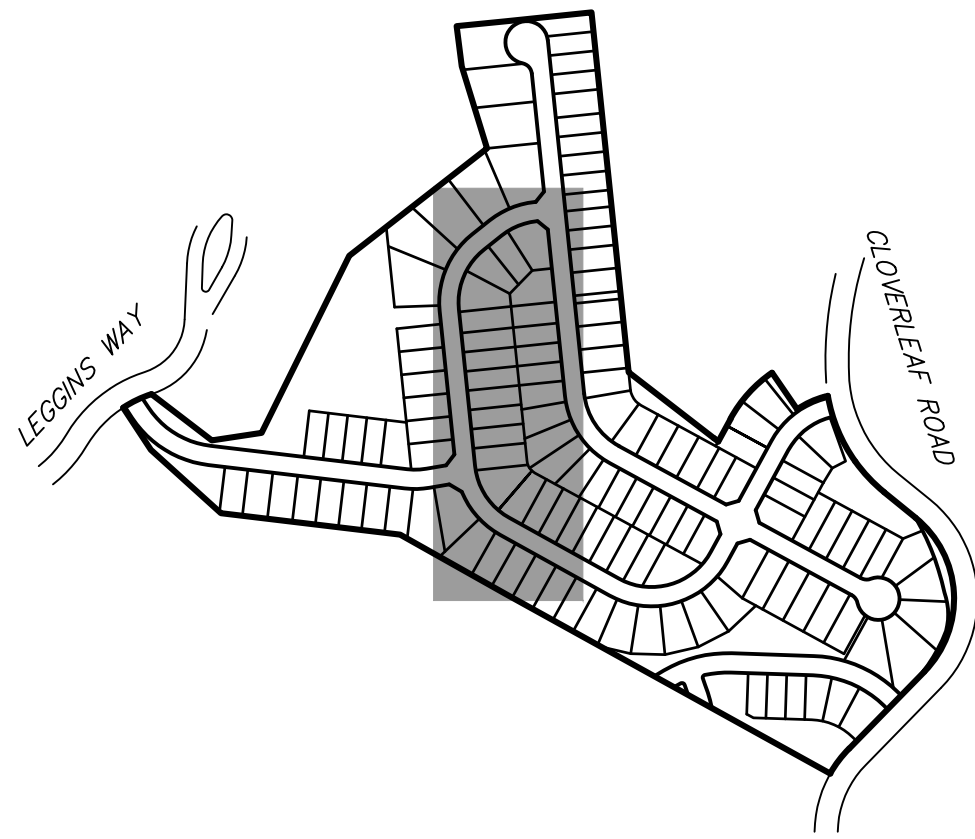


LINE TABLE		
LINE	BEARING	DISTANCE
SL7	S84°07'17"W	52.13'
SL8	S72°52'17"W	78.59'
SL9	S53°30'31"W	91.32'
SL10	S40°18'29"W	78.09'
SL11	S21°57'22"W	49.64'
SL12	S03°18'29"W	79.96'
SL13	S05°54'13"E	409.51'
SL14	S13°21'10"E	23.01'
SL15	S60°57'58"E	301.40'

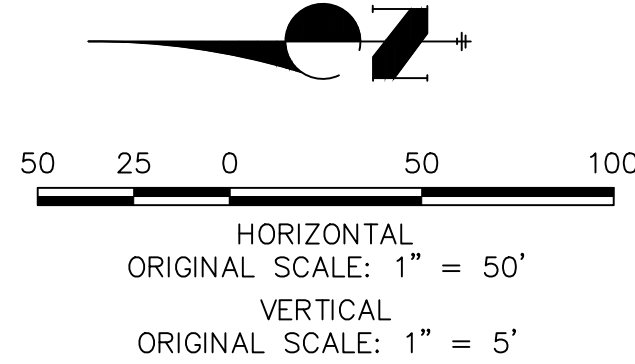
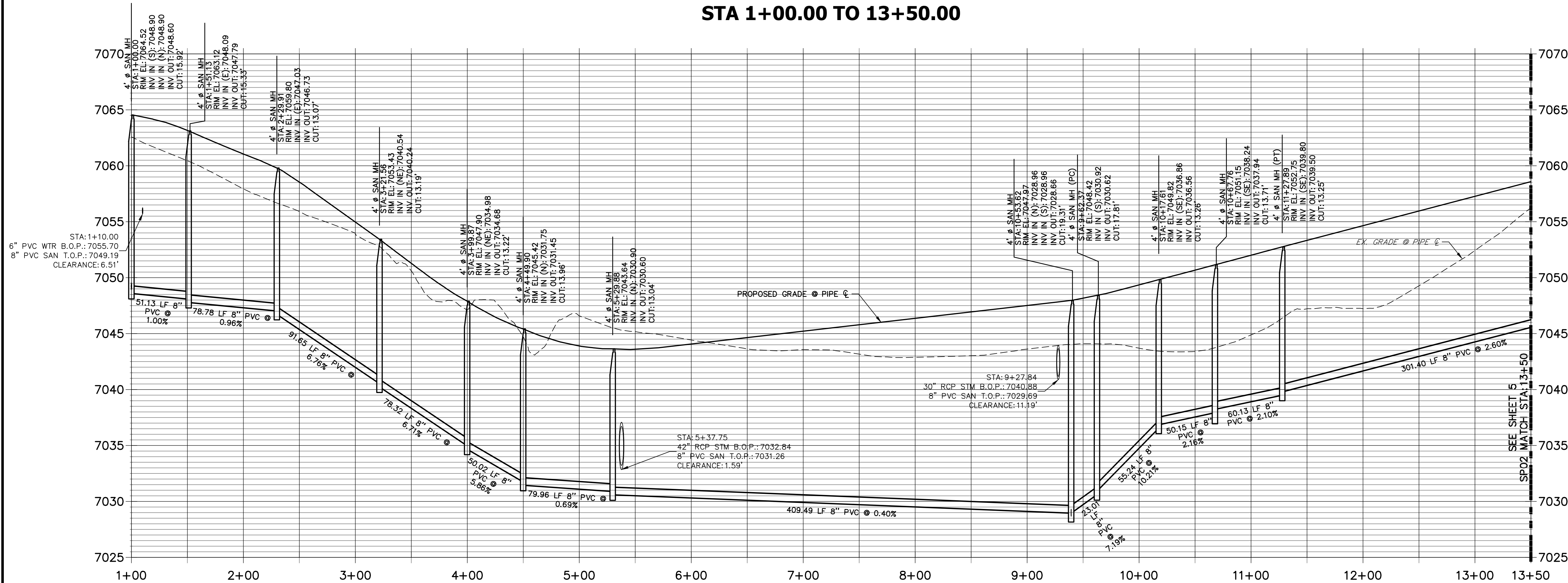
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC3	12°36'31"	251.00'	55.24'
SC4	11°26'49"	251.00'	50.15'
SC5	13°43'34"	251.00'	60.13'

NOTES

- A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
- THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.



SP02 PROFILE STA 1+00.00 TO 13+50.00



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CLOVERLEAF FLING 2

SANITARY SEWER PLAN AND
PROFILE

SHEET 4 OF 21

JOB NO. 25158.01

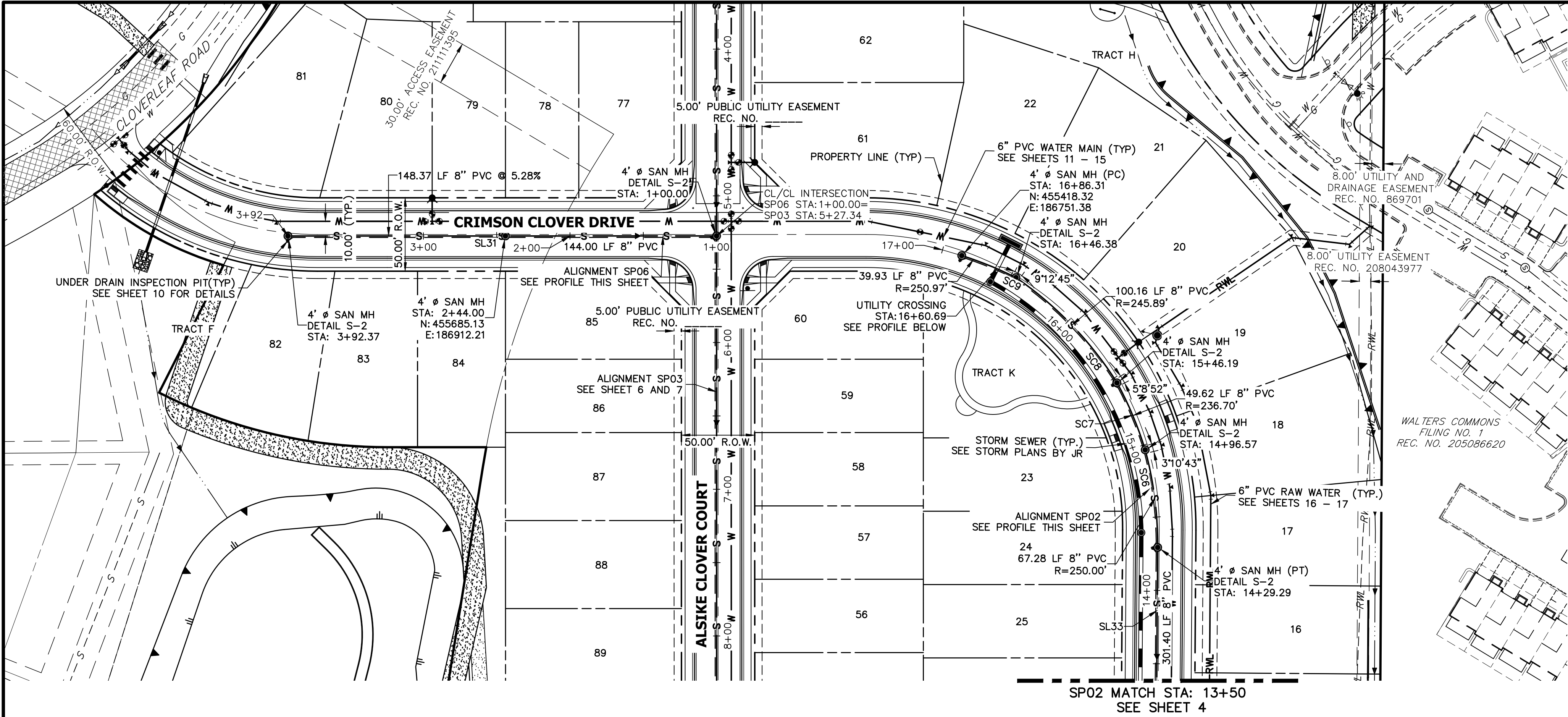
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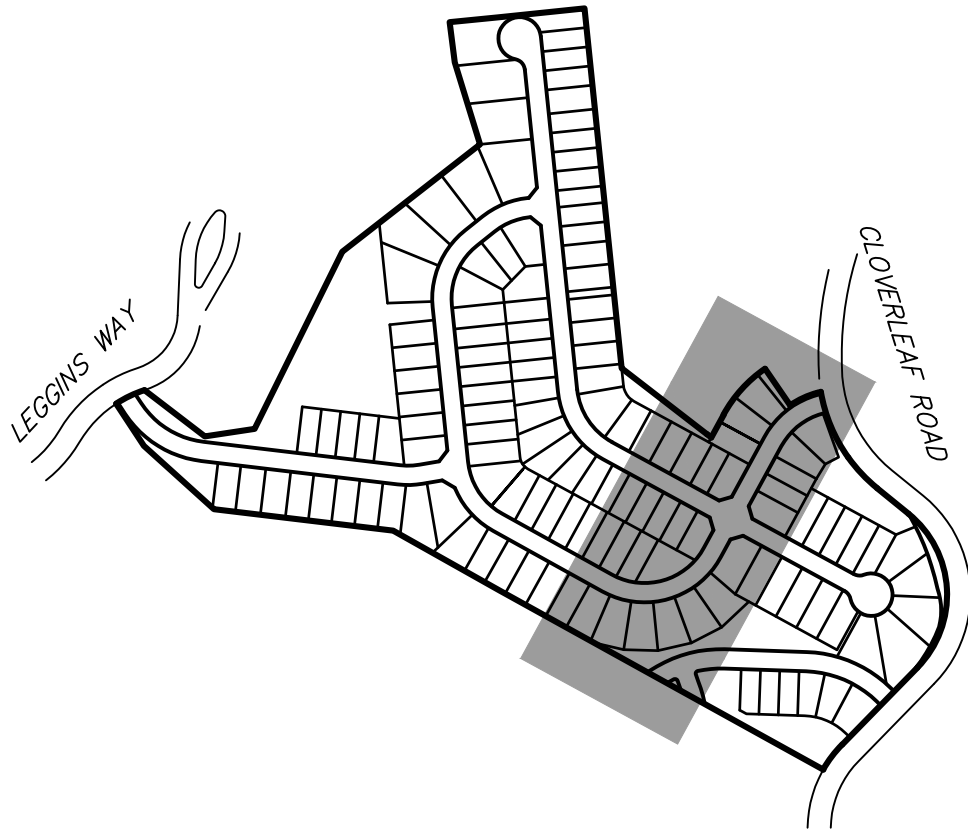
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H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=50'	1"=5'	05/10/21	APL	APL	



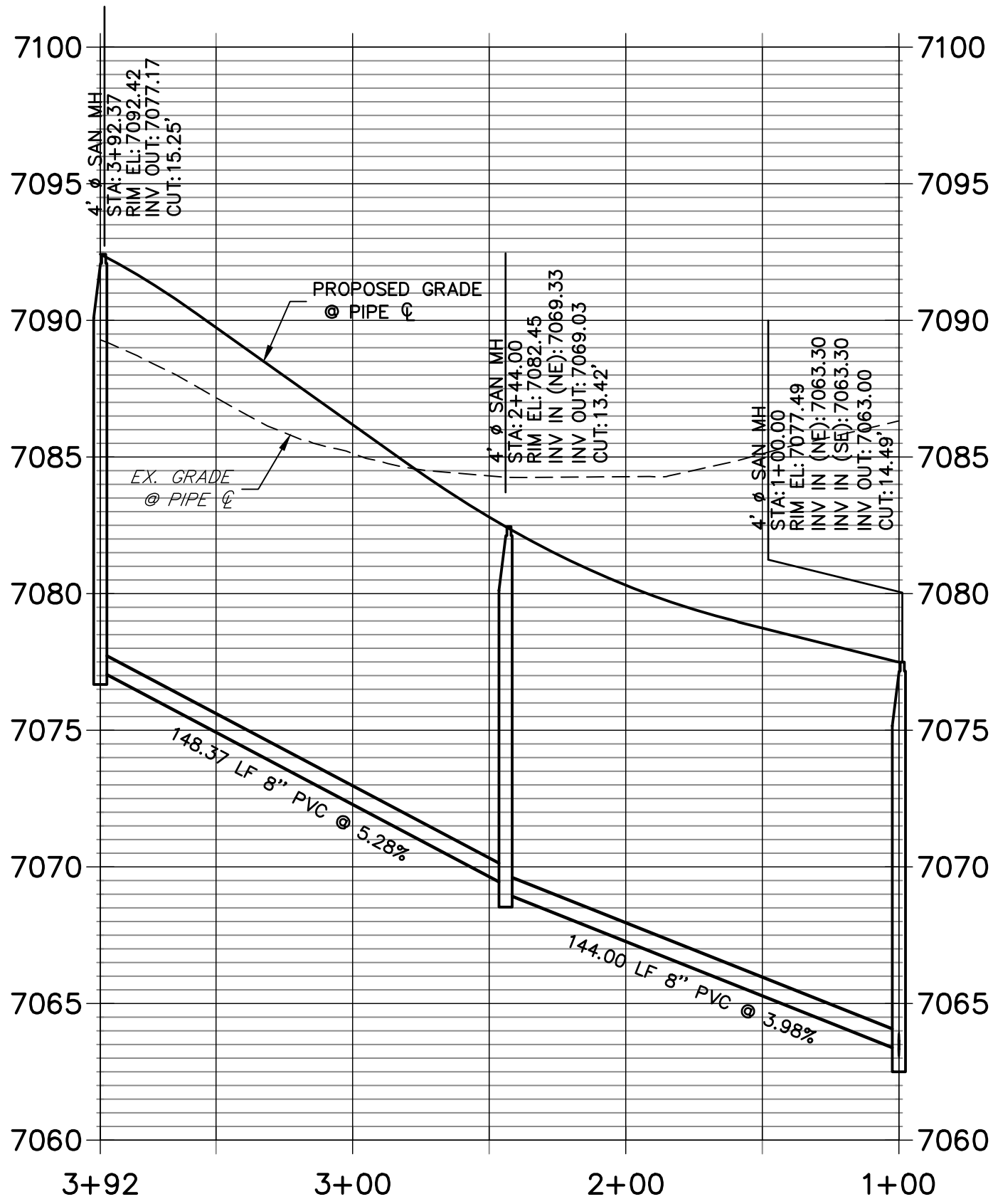
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC6	15°25'13"	250.00'	67.28'
SC7	11°22'34"	250.00'	49.64'
SC8	22°57'26"	250.00'	100.17'
SC9	8°57'19"	255.50'	39.93'

LINE TABLE		
LINE	BEARING	DISTANCE
SL31	N28°37'08"E	291.37'
SL33	S60°57'58"E	301.40'

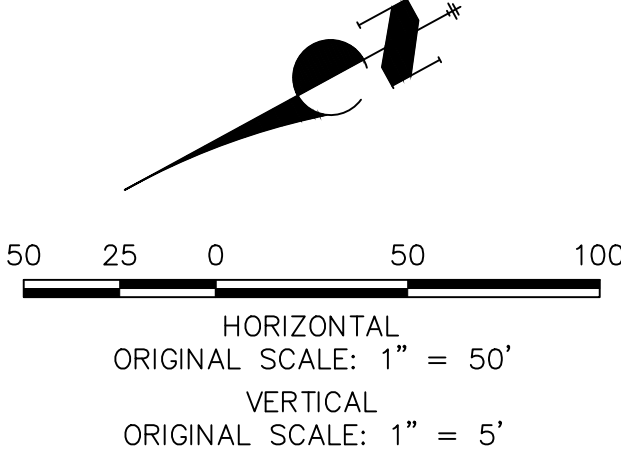
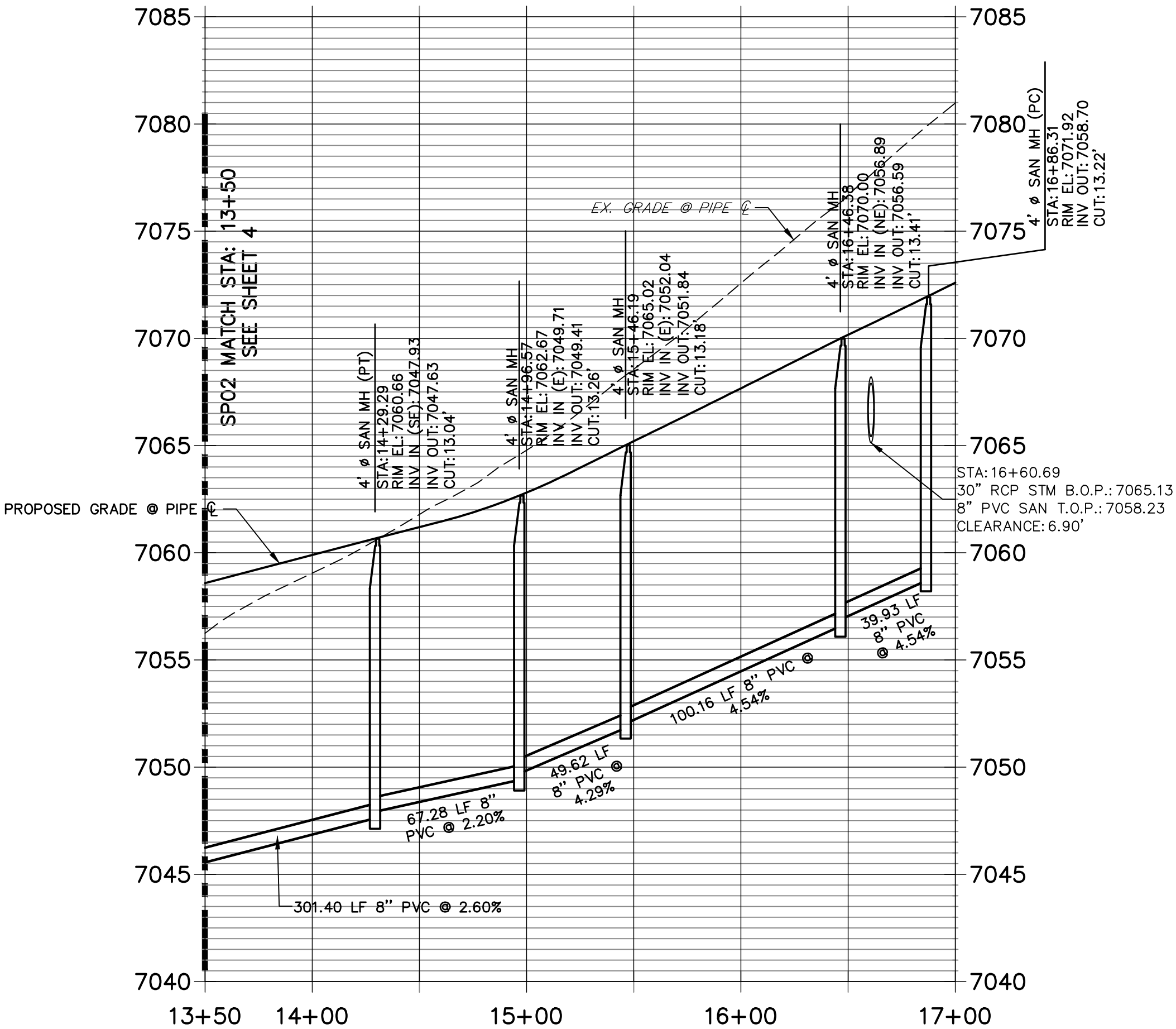


- NOTES**
- A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
 - THE PROPOSED UNDER DRAIN SHALL ONLY DEViate FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.

**SP06 PROFILE
STA 1+00.00 TO 3+92.37**



**SP02 PROFILE (1)
STA 13+50.00 TO 17+00.00**



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

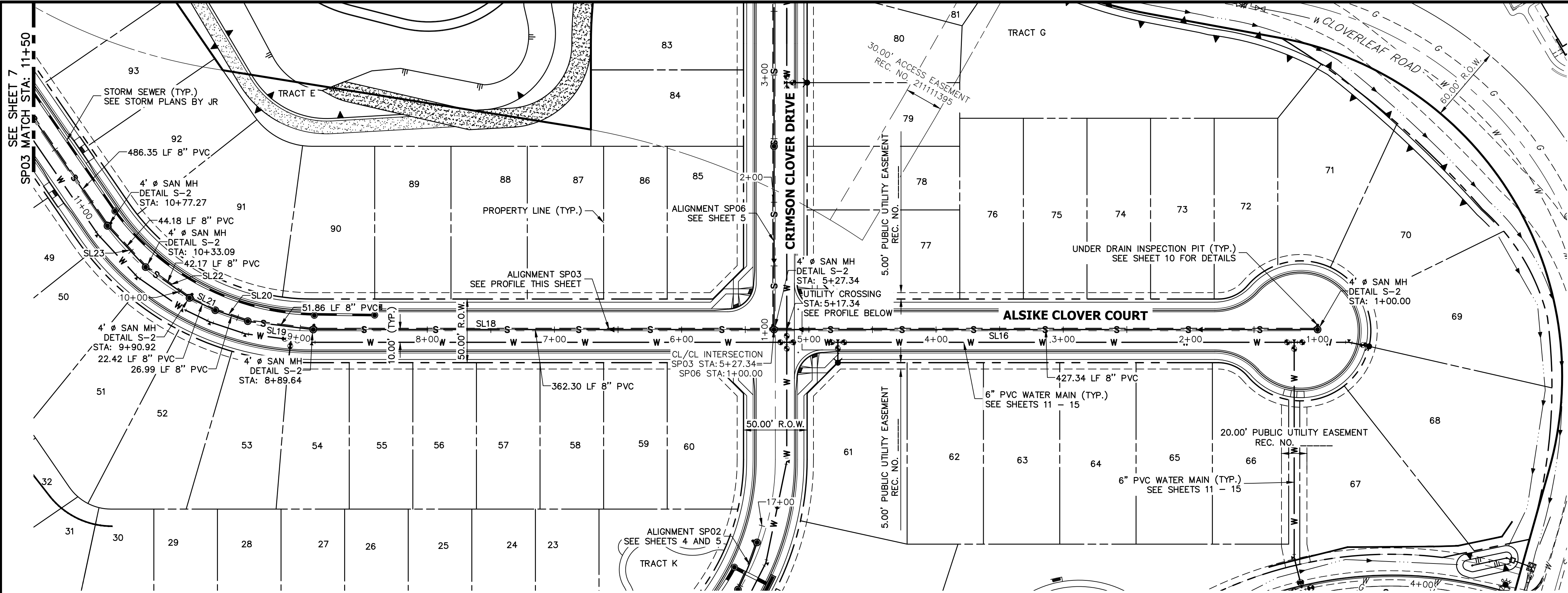
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
JDESJARDIN@PROTERRACO.COM

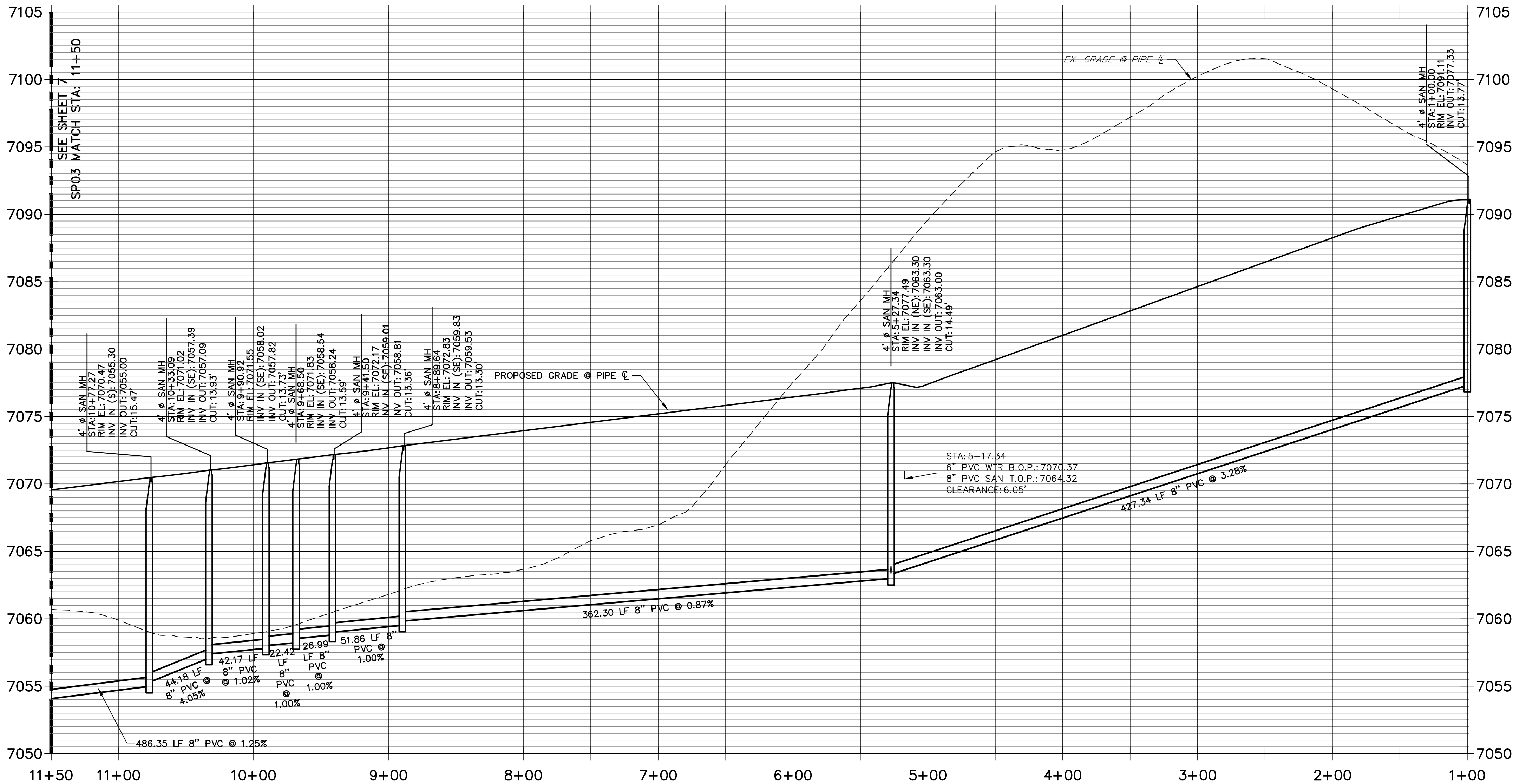
J.R. ENGINEERING
A Western Company

Central 303-740-9888 • Colorado Springs 719-583-2593
Fort Collins 970-491-9888 • www.jrengineering.com

CLOVERLEAF FILING 2	SANITARY SEWER PLAN AND PROFILE	H-SCALE 1"=50'	No.	REVISION	BY	DATE
		V-SCALE 1"=5'				
		DATE 05/10/21				
		DESIGNED BY APL				
		DRAWN BY APL				
SHEET 5 OF 21		JOB NO. 25158.01				



SP03 PROFILE
STA 1+00.00 TO 11+50.00



NOTES

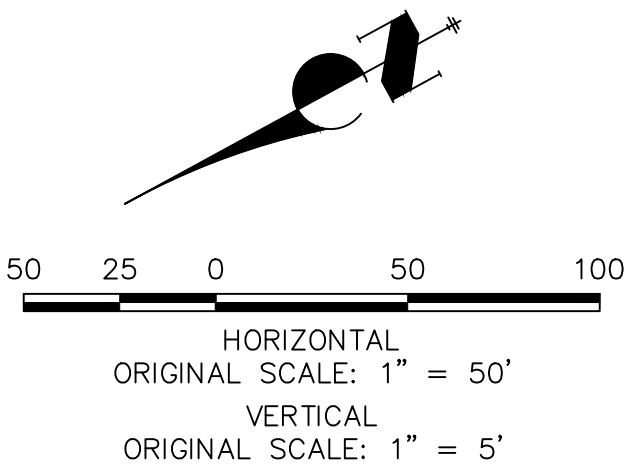
- A 6" PVC UNDER DRAIN IS TO BE RAN 1' OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
- THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

LINE TABLE		
LINE	BEARING	DISTANCE
SL16	N61°22'52"W	428.34'
SL18	S61°22'52"E	361.30'
SL19	N54°11'11"W	51.40'
SL20	N42°44'20"W	27.28'
SL21	S35°53'20"E	22.42'
SL22	S26°18'32"E	42.17'
SL23	S14°09'05"E	44.17'



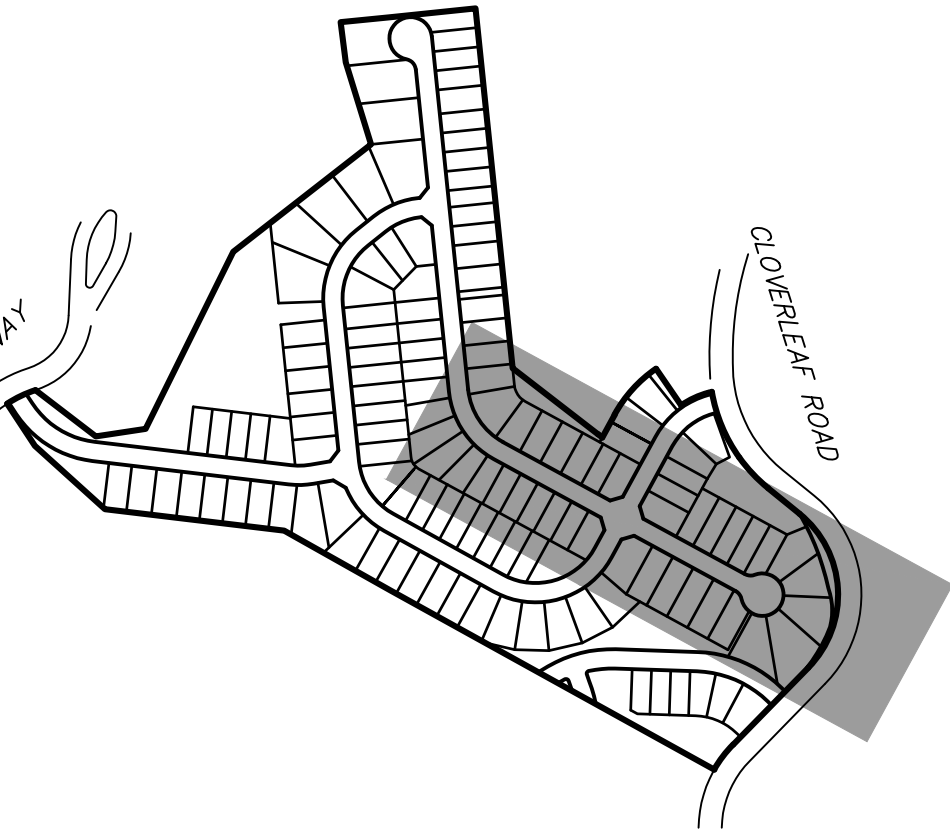
Know what's below.
Call before you dig.



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.



PREPARED FOR

PT CLOVERLEAF, LLC
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JDESJARDIN@PROTERRACO.COM

J.R. ENGINEERING
A Western Company



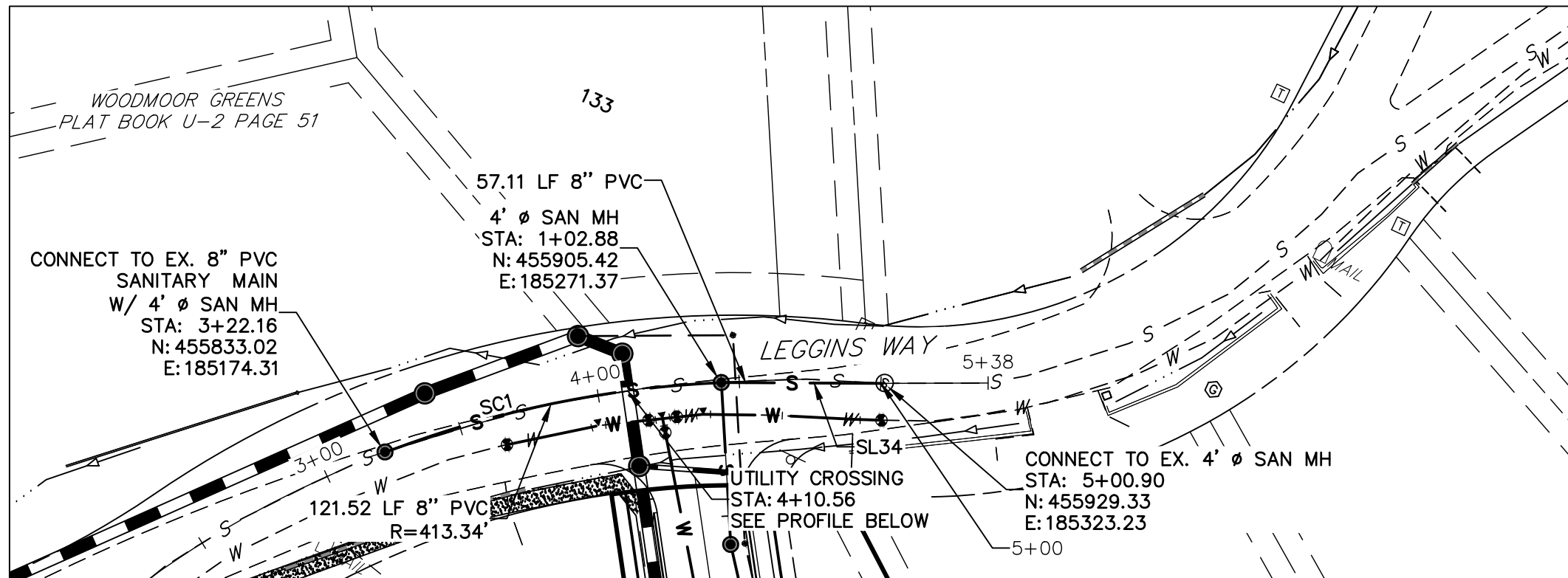
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Fort Collins 970-491-9888 • www.jrengineering.com

CLOVERLEAF FILING 2	SANTITARY SEWER PLAN AND PROFILE	SHEET 6 OF 21	JOB NO. 25158.01
H-SCALE 1"=50'	V-SCALE 1"=5'	DATE 05/10/21	DESIGNED BY APL
BY	DATE	No.	REVISION

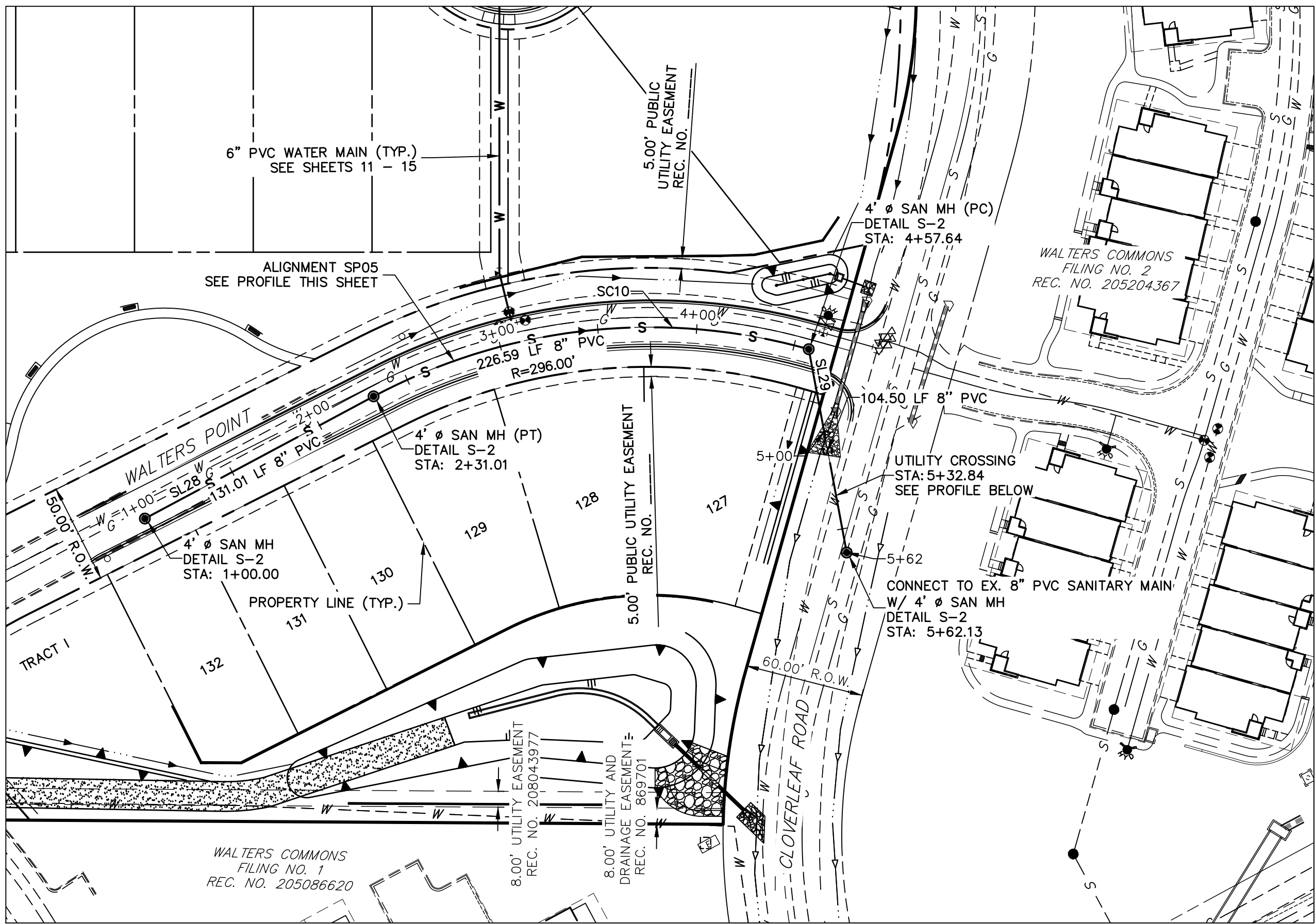
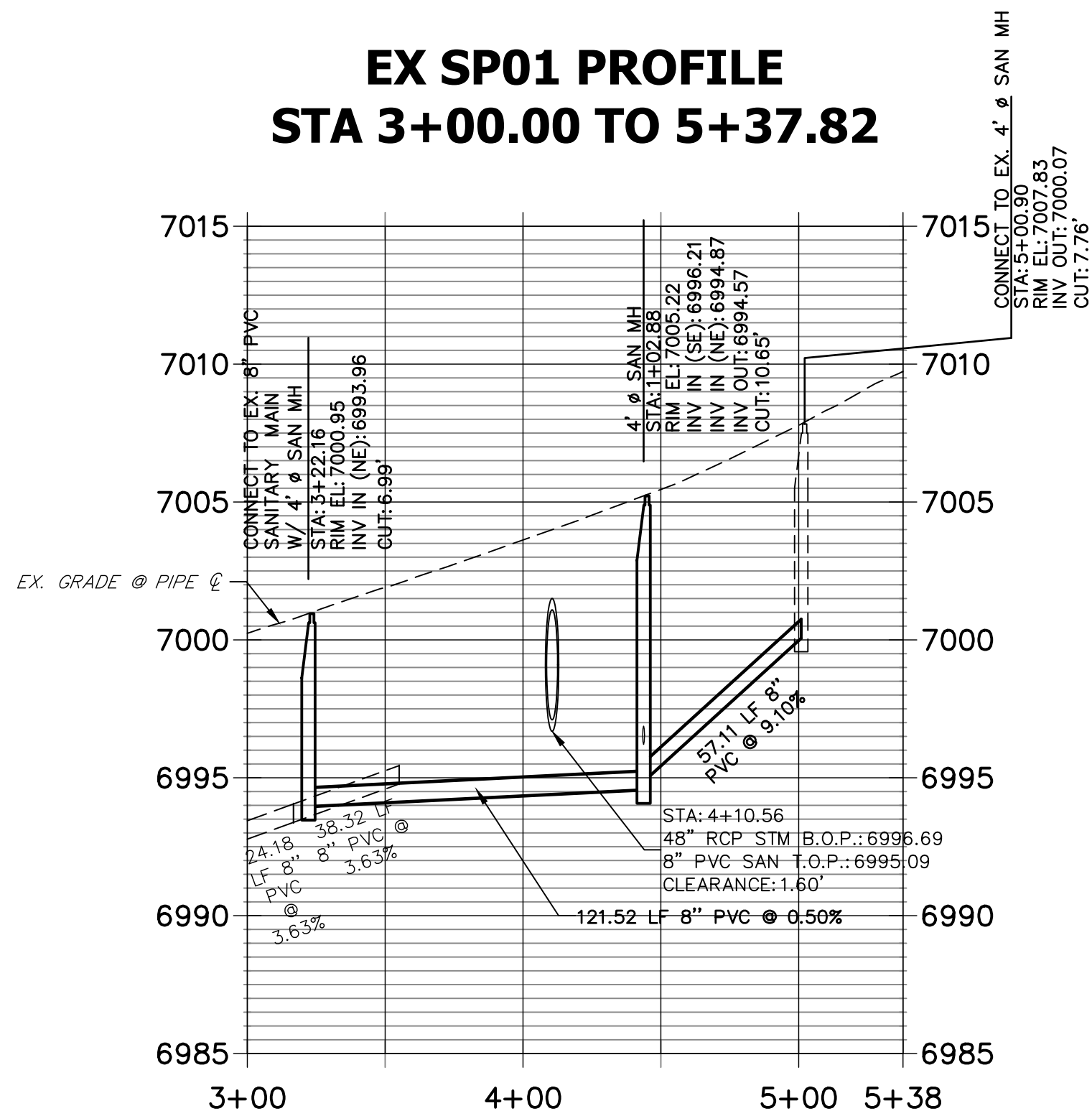
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USES DESIGNATED BY WRITTEN AUTHORIZATION.

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC1	14°20'09"	374.34'	93.66'

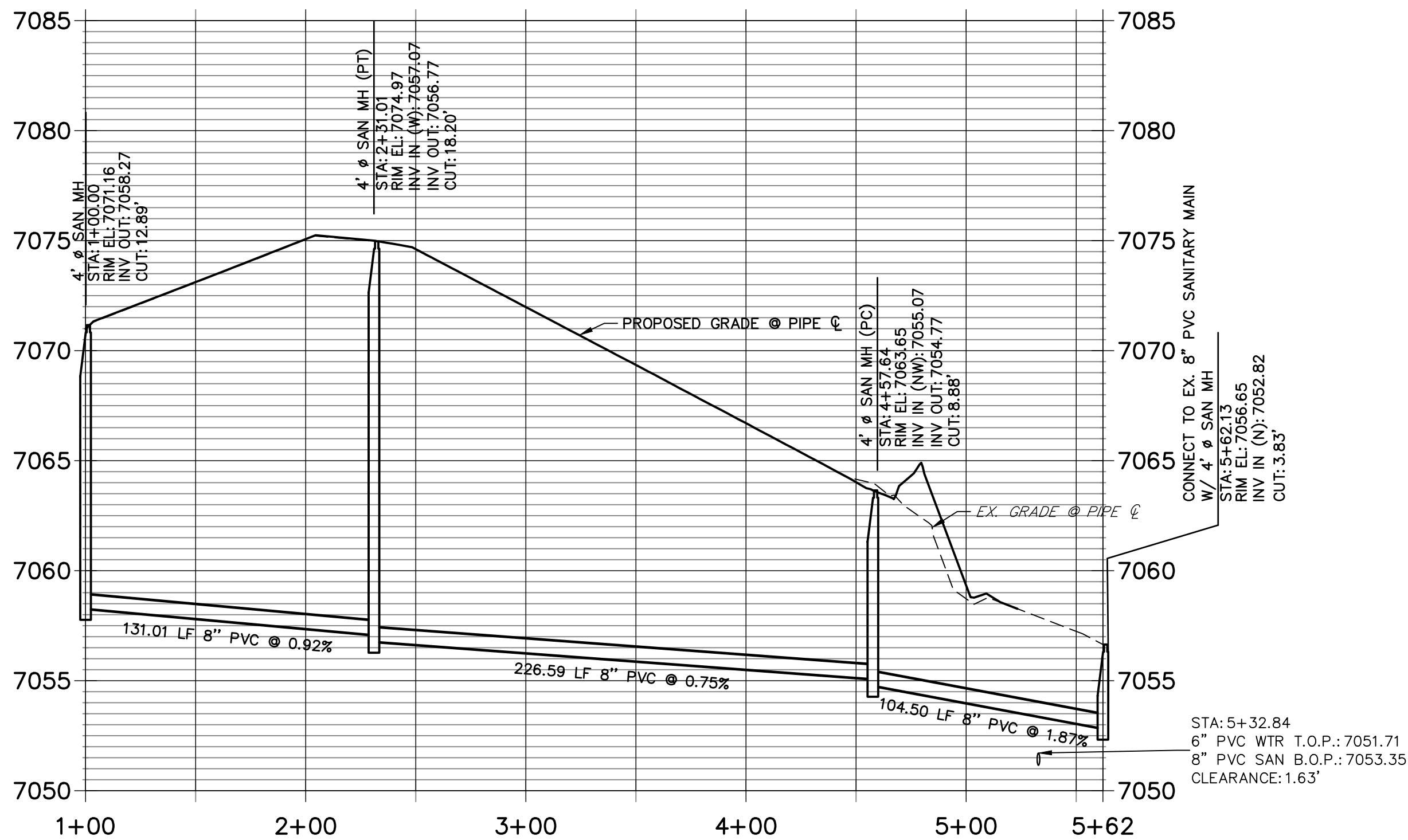
LINE TABLE		
LINE	BEARING	DISTANCE
SL34	N65°14'28"E	57.11'



EX SP01 PROFILE
STA 3+00.00 TO 5+37.82

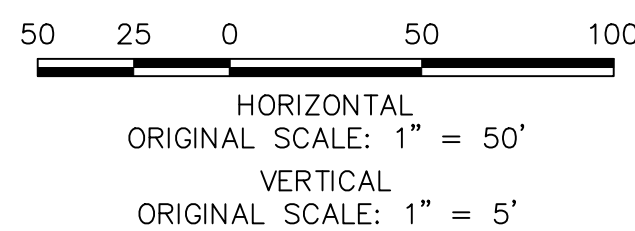


SP05 PROFILE
STA 1+00.00 TO 5+62.13



NOTES

1. A 6" PVC UNDER DRAIN IS TO BE RAN 1" OFF OF THE PROPOSED SANITARY MAIN WITH INSPECTIONS PIT TO BE PLACED AS DISPLAYED. SEE DETAILS SHEET 10.
2. THE PROPOSED UNDER DRAIN SHALL ONLY DEVIATE FROM THE TYPICAL UNDER DRAIN TRENCH SECTION AT THE OUTFALL LOCATION SEE SHEET 9.



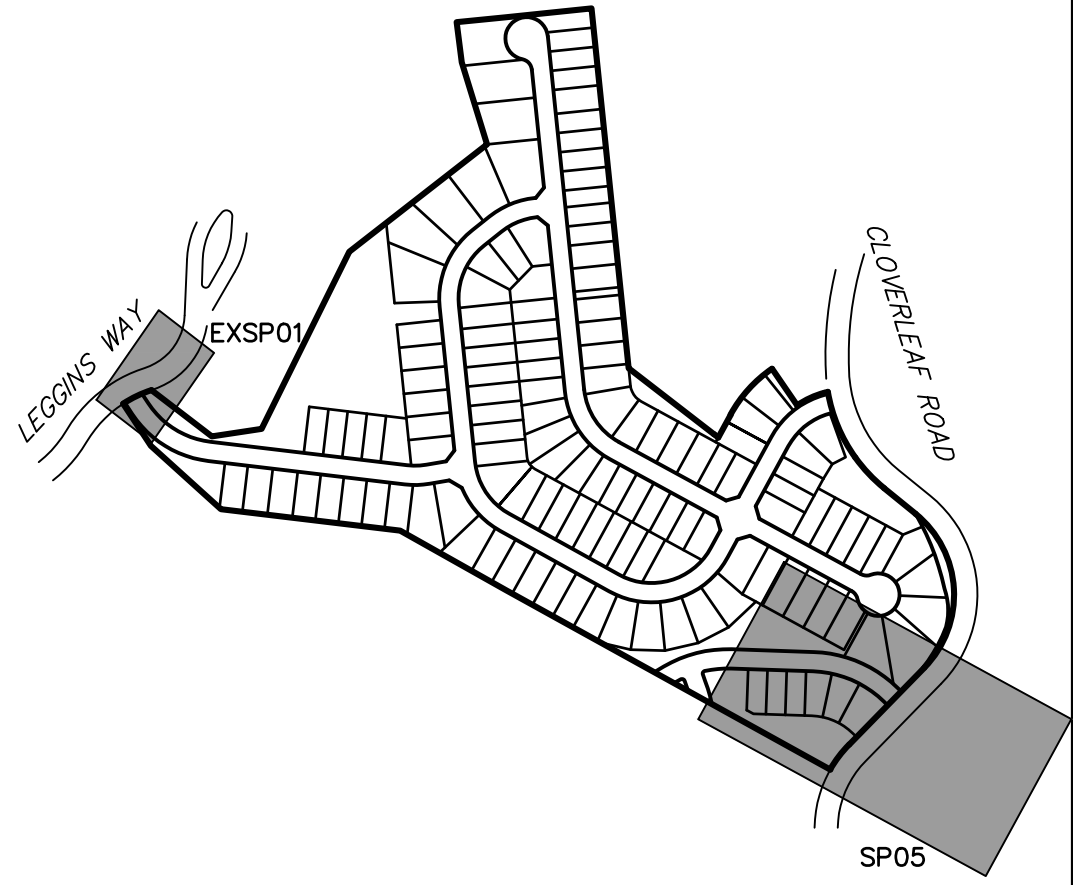
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WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

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LINE TABLE		
LINE	BEARING	DISTANCE
SL28	S89°30'04"E	131.01'
SL29	S18°03'22"W	104.50'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC10	43°51'37"	296.00'	226.59'

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
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COLORADO SPRINGS, CO 80920
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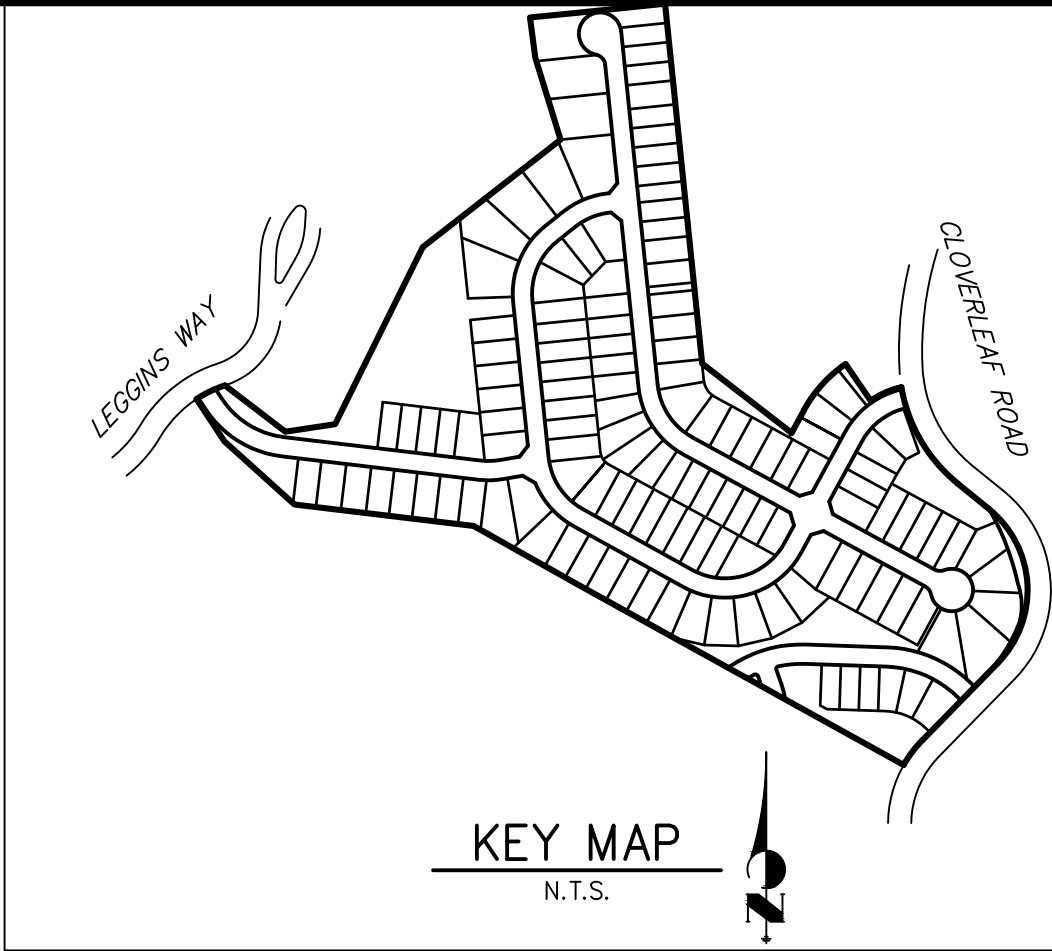
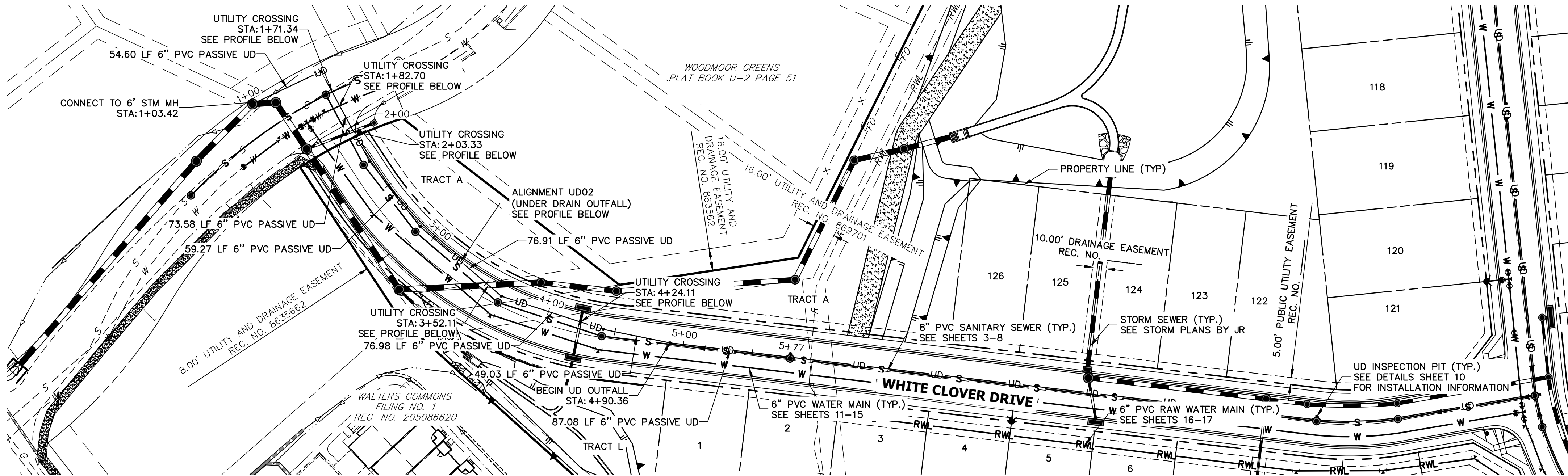
BY	DATE	No.	REVISION	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				1"=50'	1"=5'	05/10/21	APL	APL	

CLOVERLEAF FILING 2

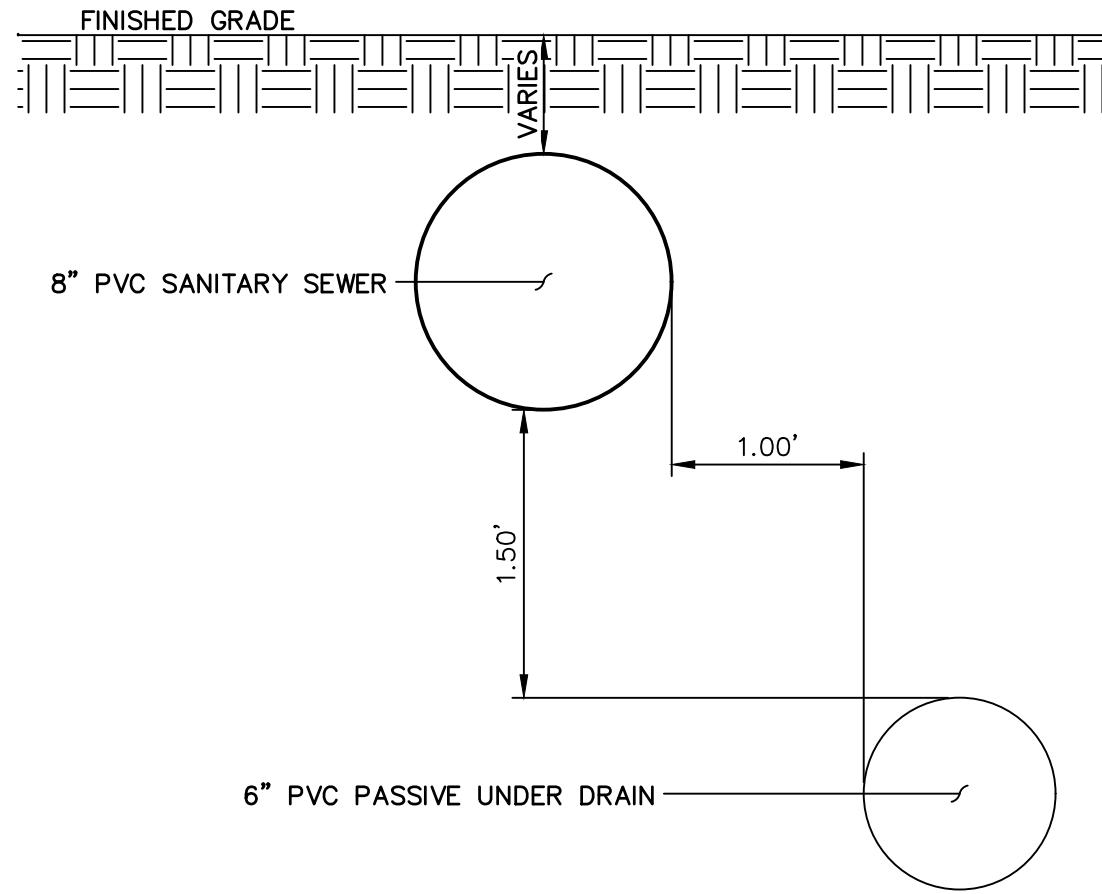
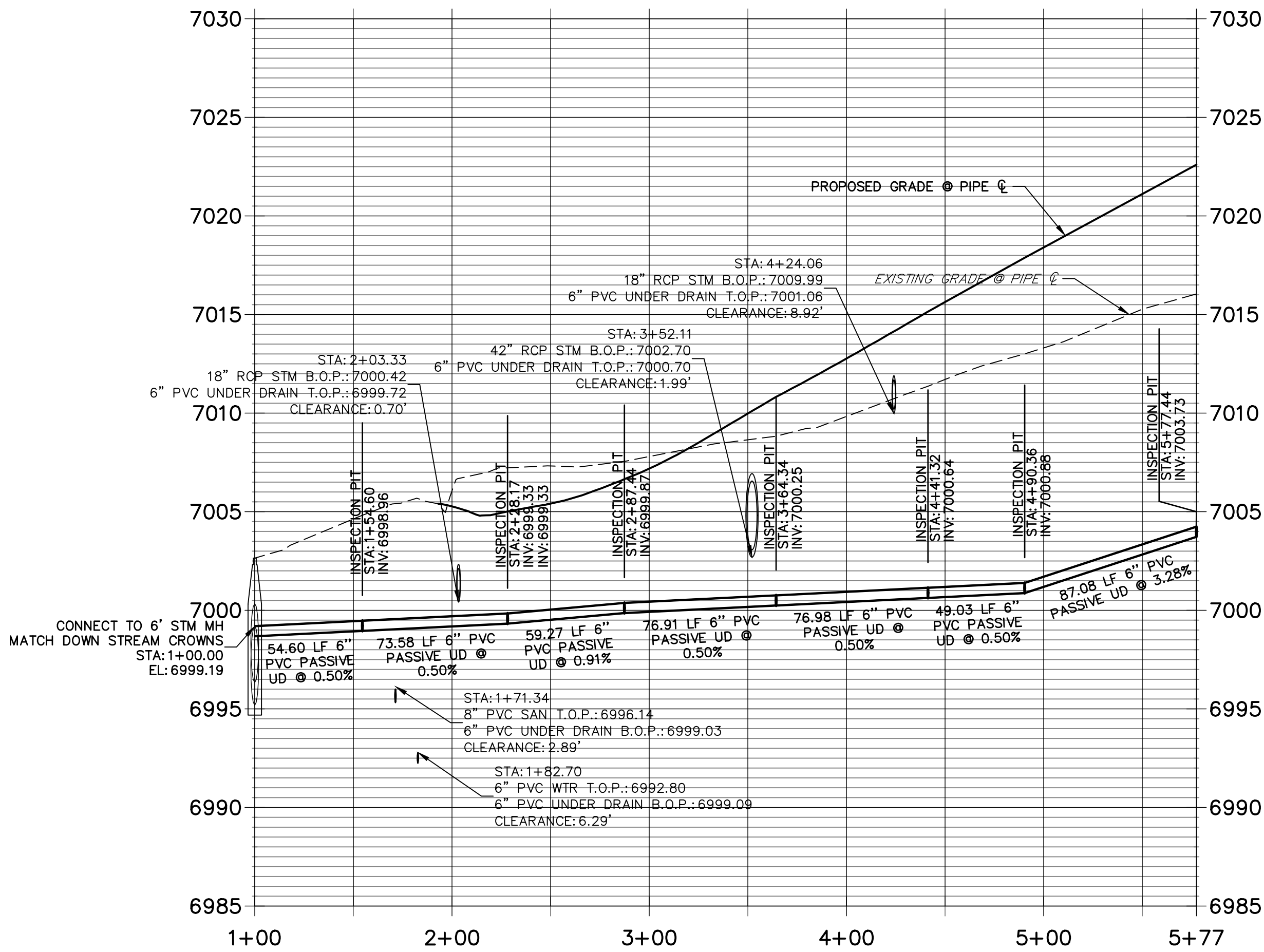
SANITARY SEWER PLAN AND PROFILE

SHEET 8 OF 21

JOB NO. 25158.01



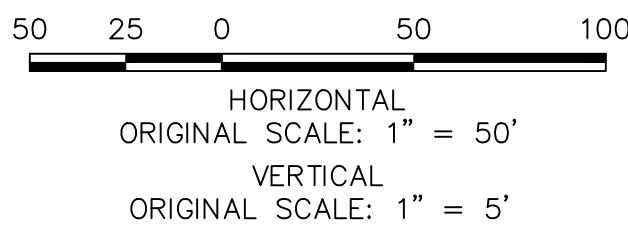
UD02 PROFILE
STA 1+00.00 TO 5+77.44



UNDER DRAIN TRENCH SECTION
SCALE: N.T.S.

NOTES

1. SEE DETAILS SHEET 10 FOR UNDER DRAIN INSTALLATION INFORMATION.
2. UNDER DRAIN IS TO BE LOCATED 1' HORIZONTALLY FROM OUTSIDE OF SANITARY PIPE TO OUTSIDE OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
3. UNDER DRAIN IS TO BE LOCATED 1.5' VERTICALLY FROM BOTTOM OF SANITARY PIPE TO TOP OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
4. FOR UNDER DRAIN SERVICE LOCATION SEE UTILITY SERVICE PLAN SHEETS 18 AND 19.




WOODMOOR WATER AND SANITATION DISTRICT NO. 1 APPROVED FOR CONSTRUCTION	
DATE:	BY:
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PREPARED FOR

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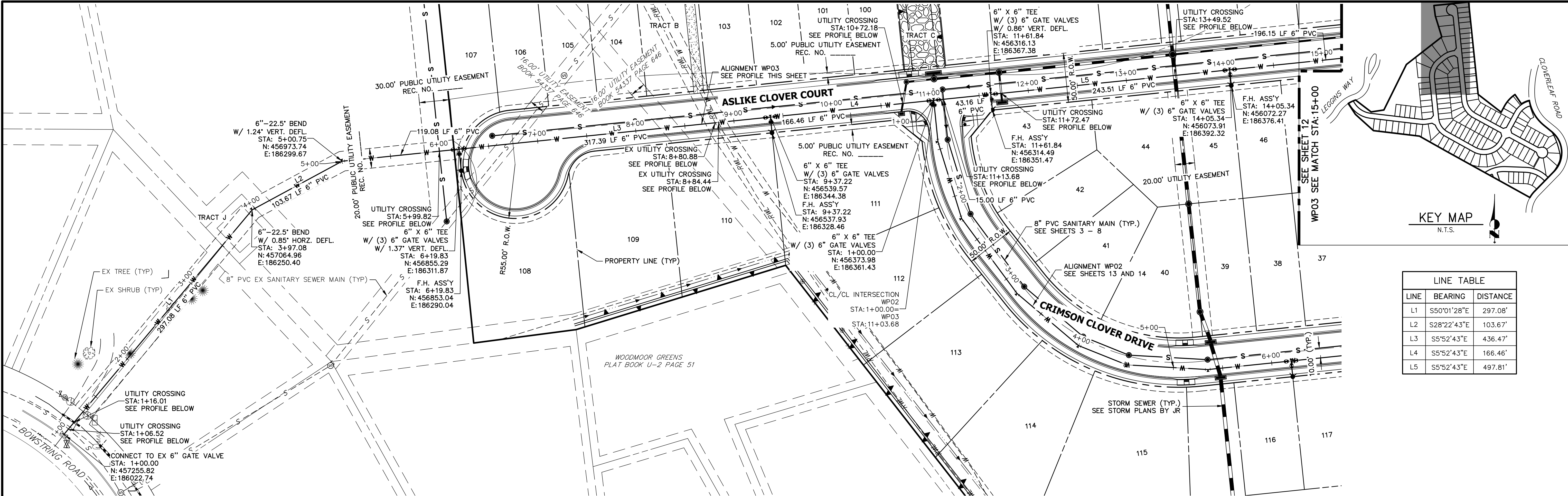
BY	DATE	No.	REVISION

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1"=50'	1"=5'	05/10/21	APL	APL	

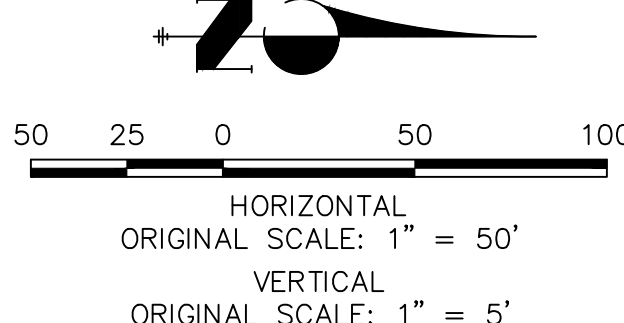
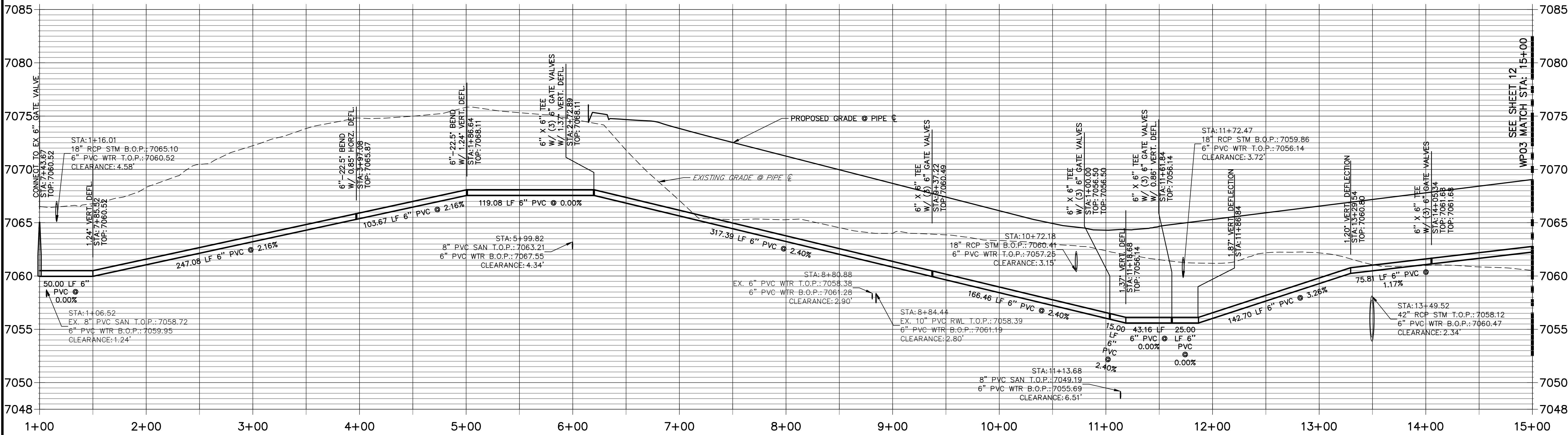
CLOVERLEAF FILING 2

UNDER DRAIN

SHEET	9	OF	21
JOB NO.	25158.01		



**WP03 PROFILE (1)
STA 1+00.00 TO 15+00.00**



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: _____ BY: _____

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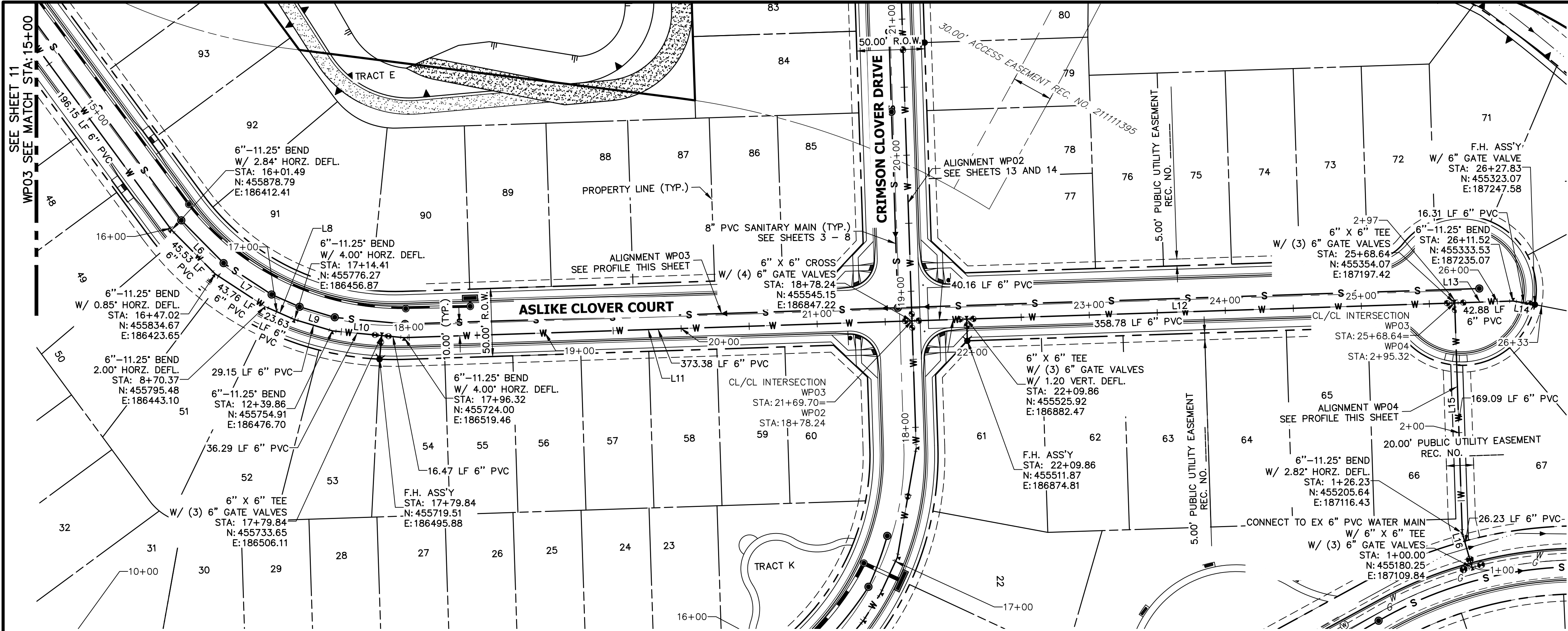
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

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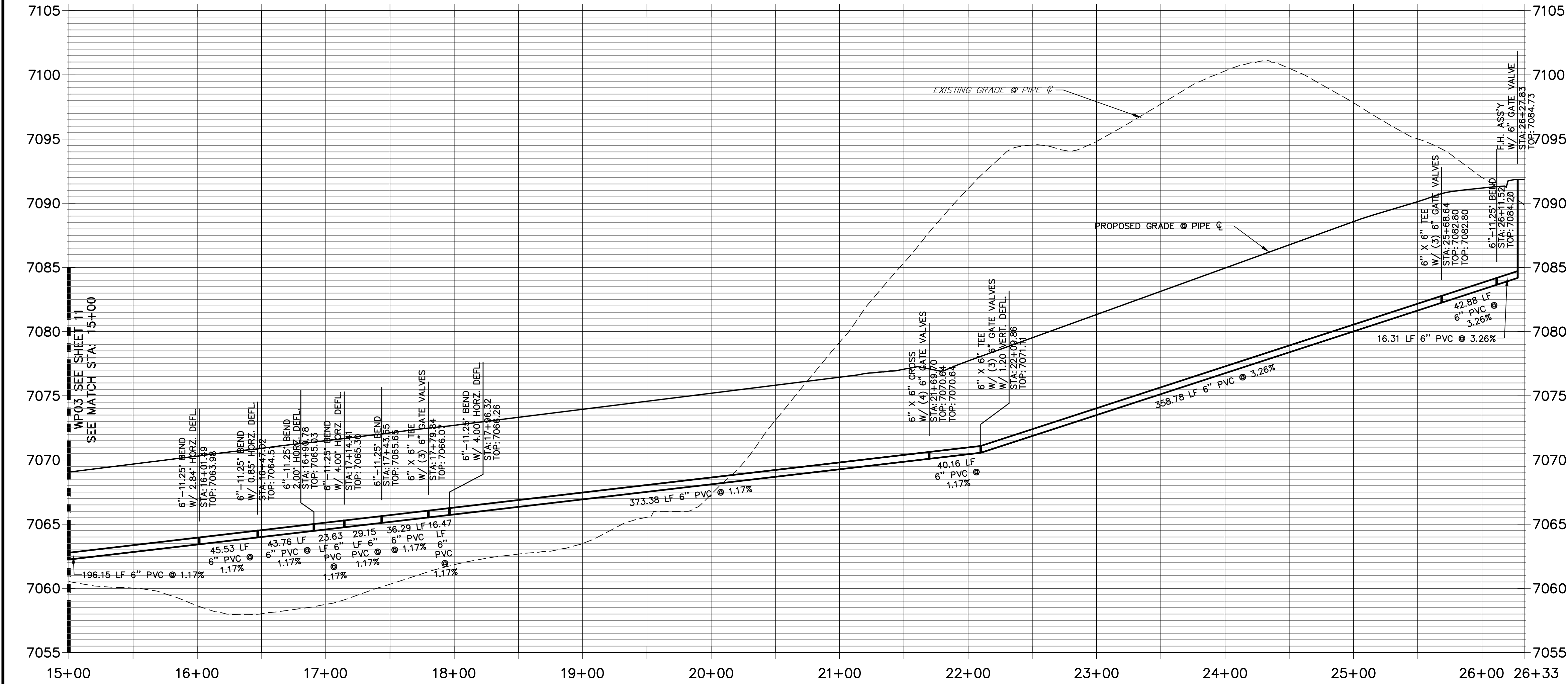
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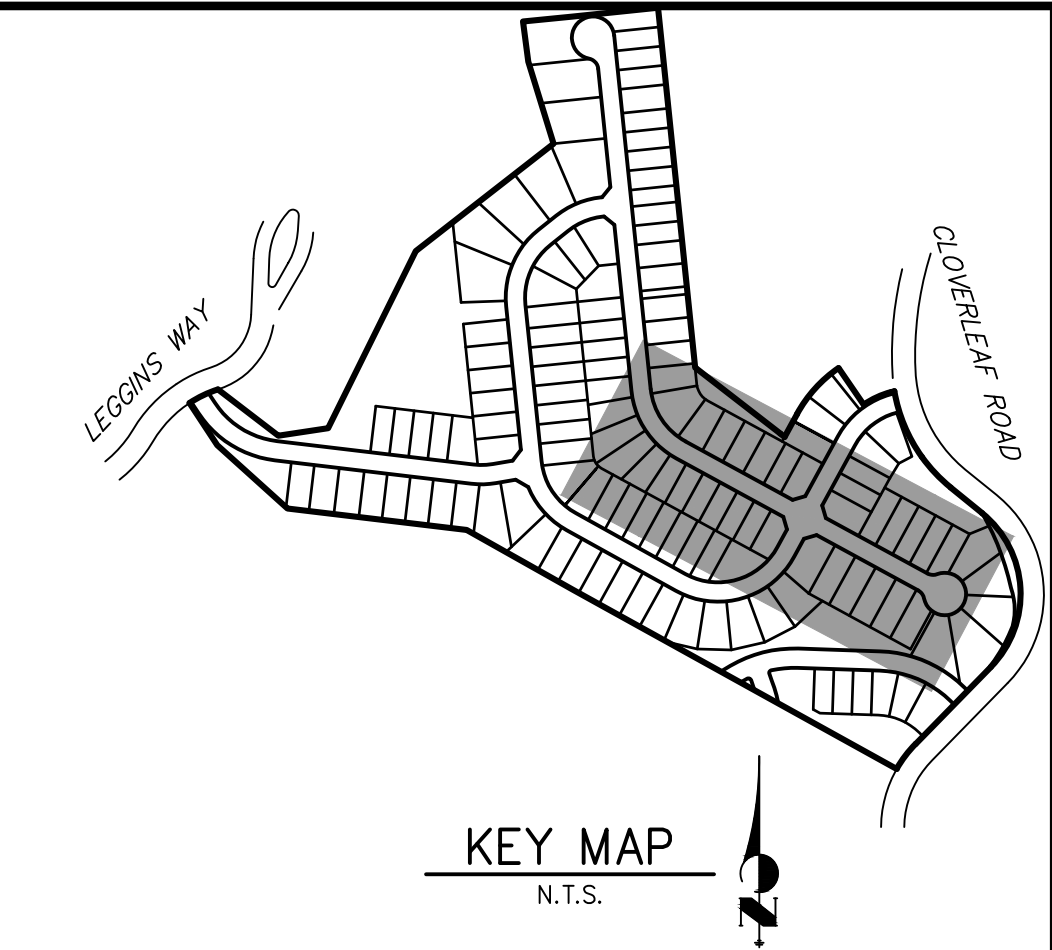
H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	No.	REVISION	BY	DATE
CLOVERLEAF FILING 2									
WATER DISTRIBUTION PLAN									
SHEET 11 OF 21									
JOB NO. 25158.01									



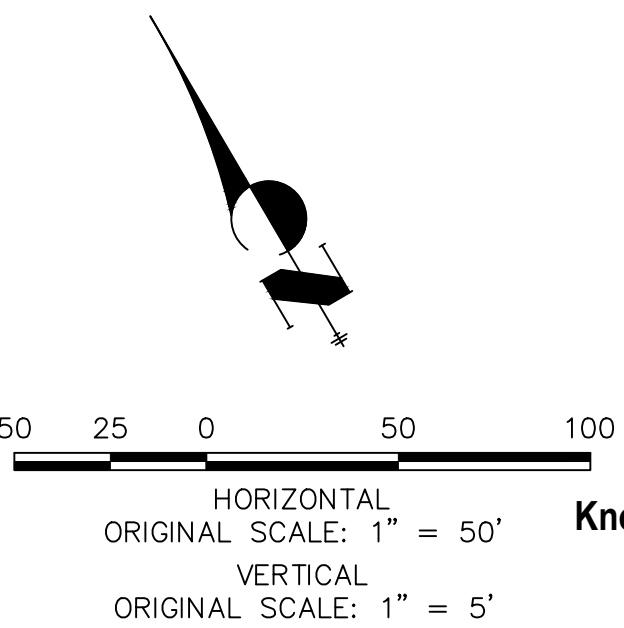
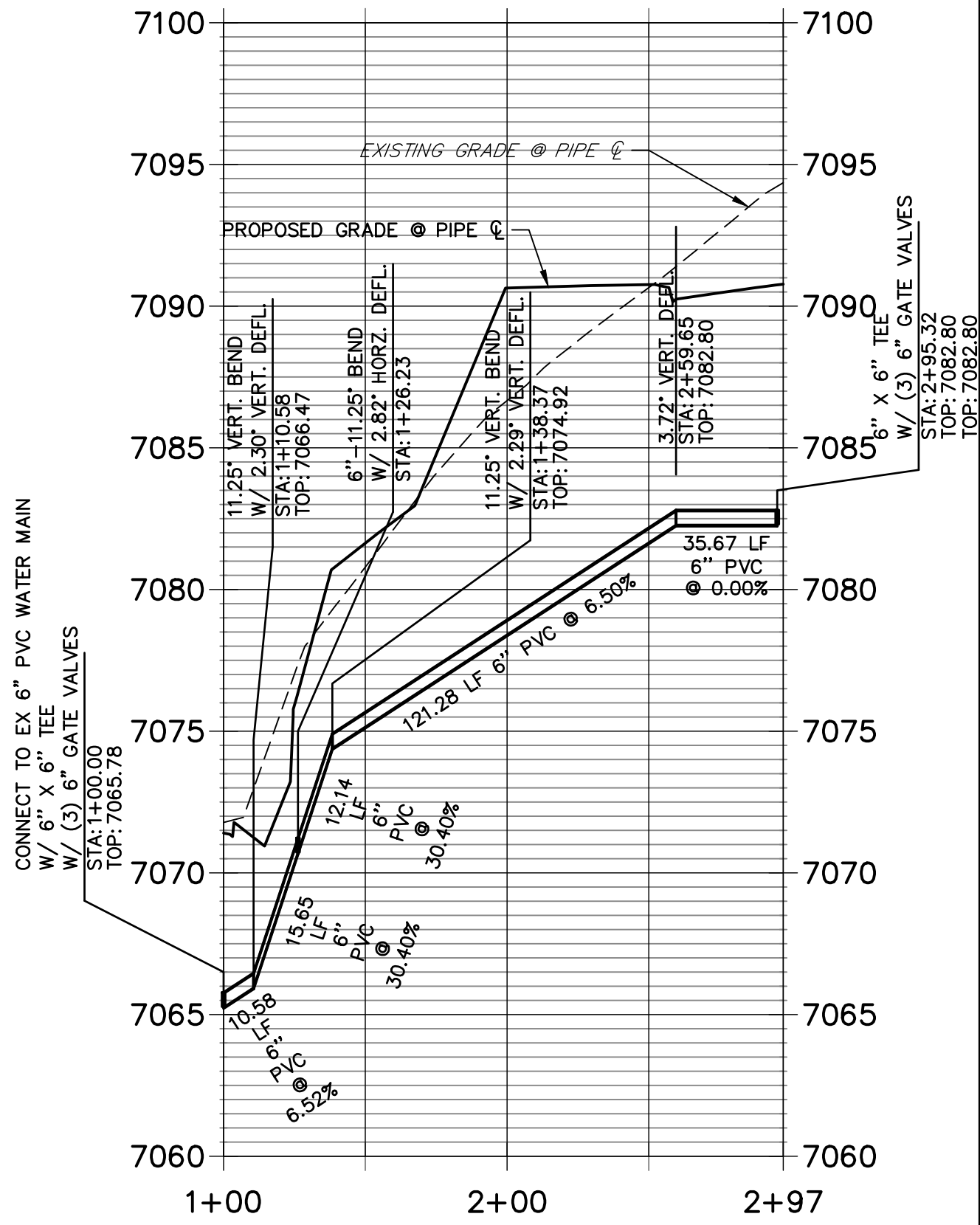
WP03 PROFILE (2)
STA 15+00.00 TO 26+32.83



LINE TABLE		
LINE	BEARING	DISTANCE
L6	S14°17'22"E	45.53'
L7	S26°23'25"E	43.76'
L8	S35°38'25"E	23.63'
L9	S42°52'45"E	29.15'
L10	S54°07'45"E	52.76'
L11	S61°22'52"E	373.38'
L12	S61°22'52"E	398.94'
L13	S61°22'52"E	42.88'
L14	S50°07'52"E	16.31'
L15	N28°37'08"E	171.25'
L16	N14°33'06"E	26.23'



WP04 PROFILE
STA 1+00.00 TO 2+97.49



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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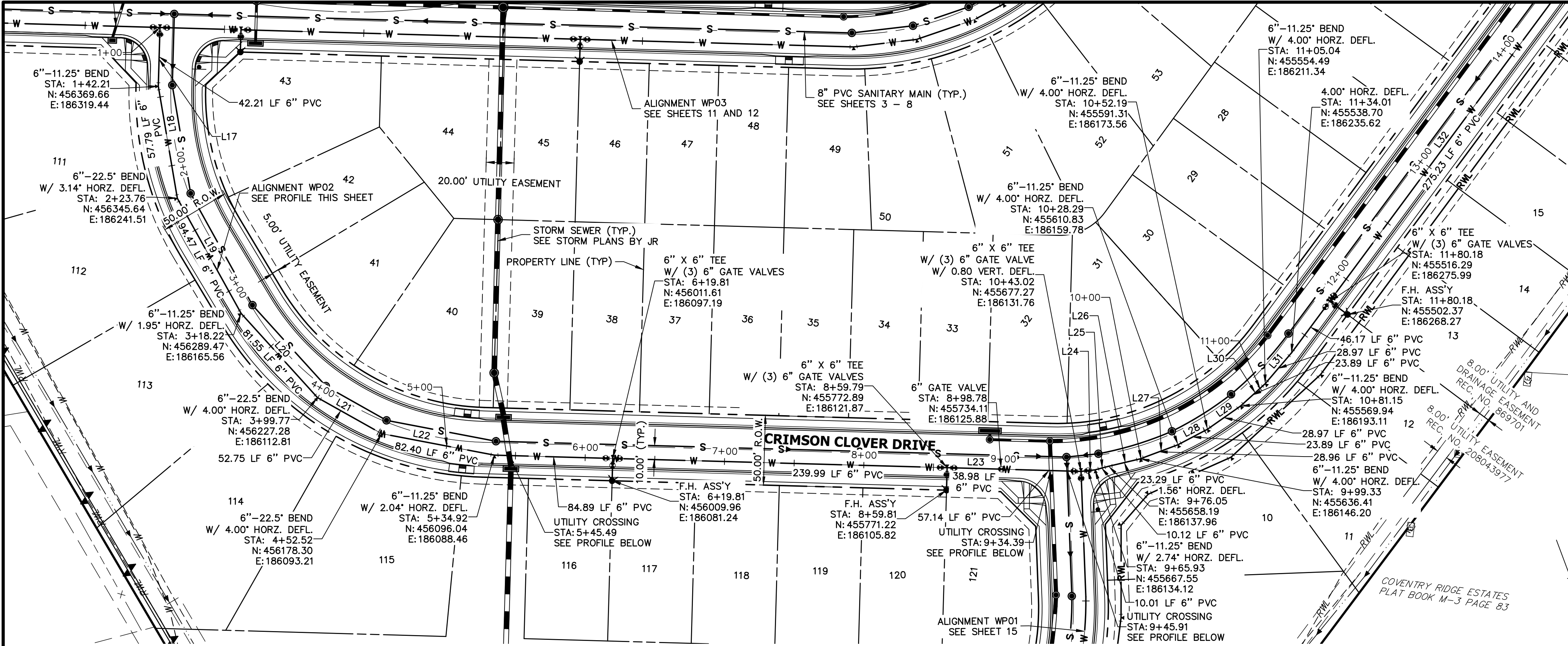
PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
ATTN: JOE DESJARDIN
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JDESJARDIN@PROTERRACO.COM

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No.	REVISION	BY	DATE

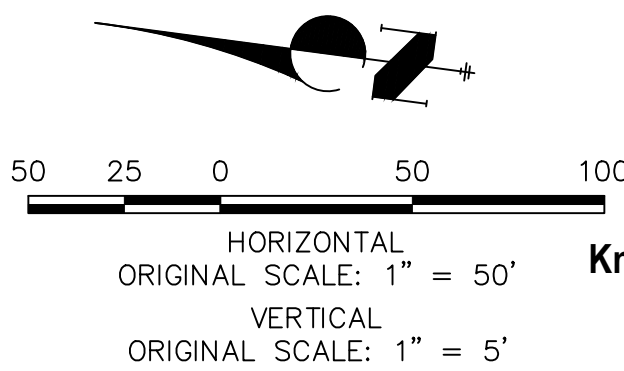
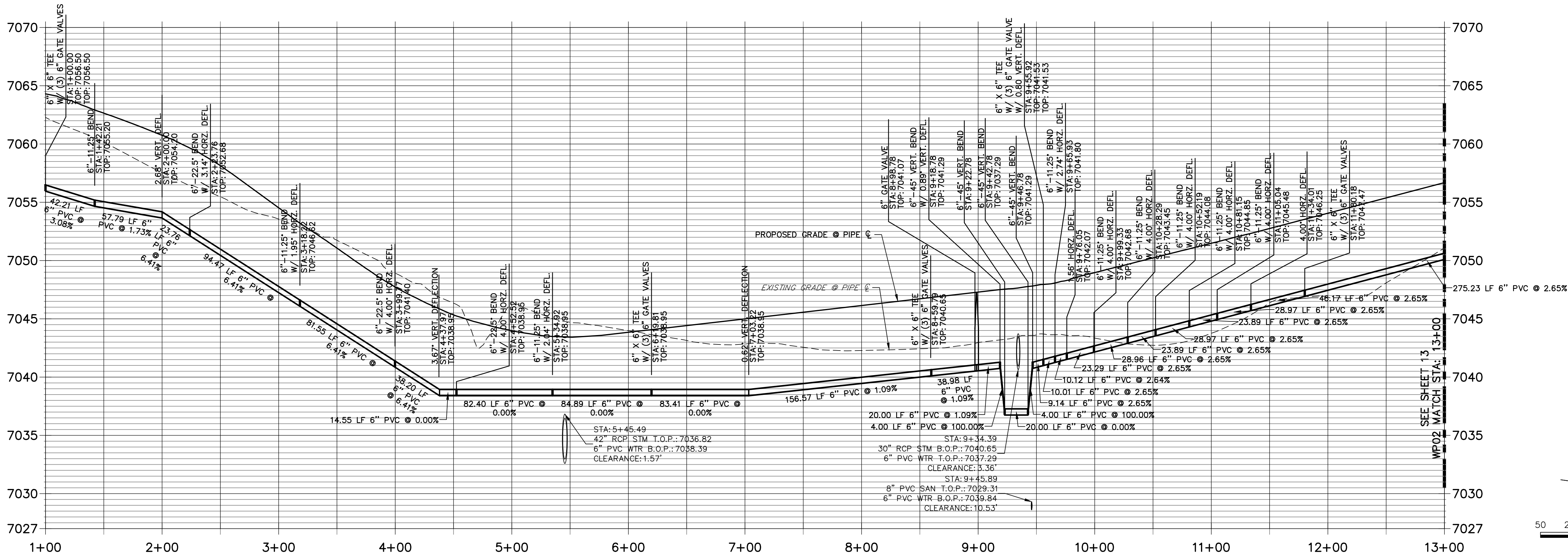
CLOVERLEAF FILING 2	DESIGNED BY	CHECKED BY
WATER DISTRIBUTION PLAN	DATE 05/10/21	
SHEET 12 OF 21	APL	
JOB NO. 25158.01		



SEE SHEET 13
WPO2 MATCH STA: 13+00

LINE TABLE		
LINE	BEARING	DISTANCE
L17	S84°07'17"W	42.21'
L18	S72°52'17"W	81.55'
L19	S53°30'31"W	94.47'
L20	S40°18'29"W	81.55'
L21	S21°48'29"W	52.75'
L22	S3°18'29"W	82.40'
L23	S5°54'13"E	421.00'
L24	S13°45'51"E	10.12'
L25	S22°16'44"E	10.01'
L26	S20°42'58"E	23.28'
L27	S27°57'58"E	28.96'
L28	S35°12'58"E	23.89'
L29	S42°27'58"E	28.97'
L30	S49°44'58"E	23.89'
L31	S56°57'59"E	28.97'
L32	S60°57'58"E	321.40'

WP02 PROFILE (1)
STA 1+00.00 TO 13+00.00



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

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CLOVERLEAF FILING 2

WATER DISTRIBUTION PLAN

SHEET 14 OF 21

JOB NO. 25158.01

PREPARED FOR
PT CLOVERLEAF, LLC
1864 WOODMOOR DRIVE
COLORADO SPRINGS, CO 80920
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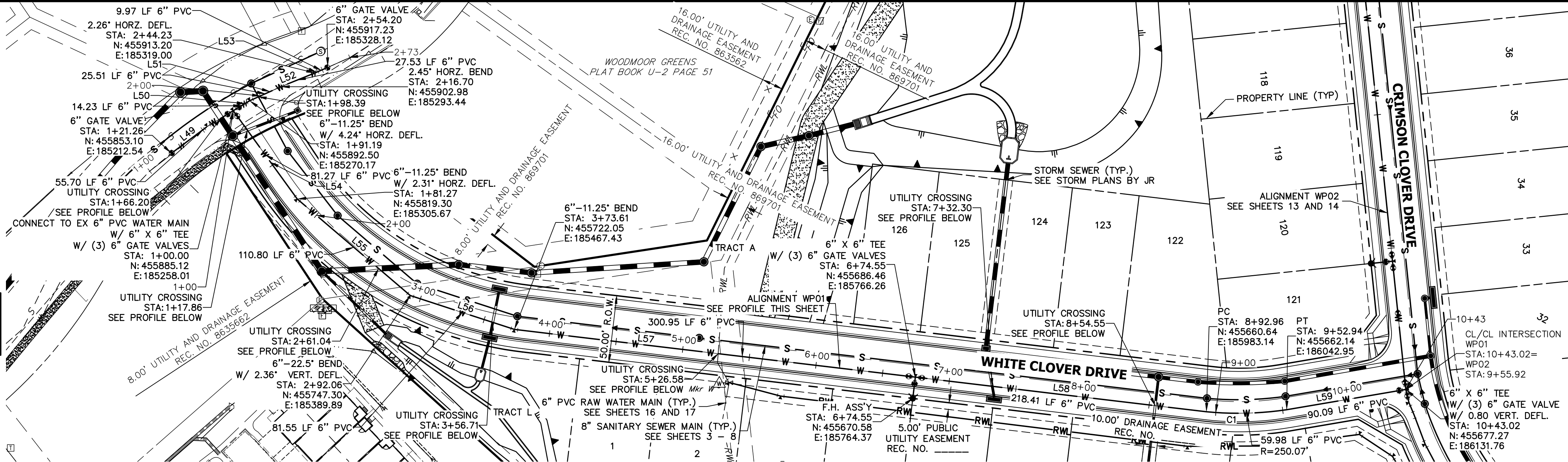
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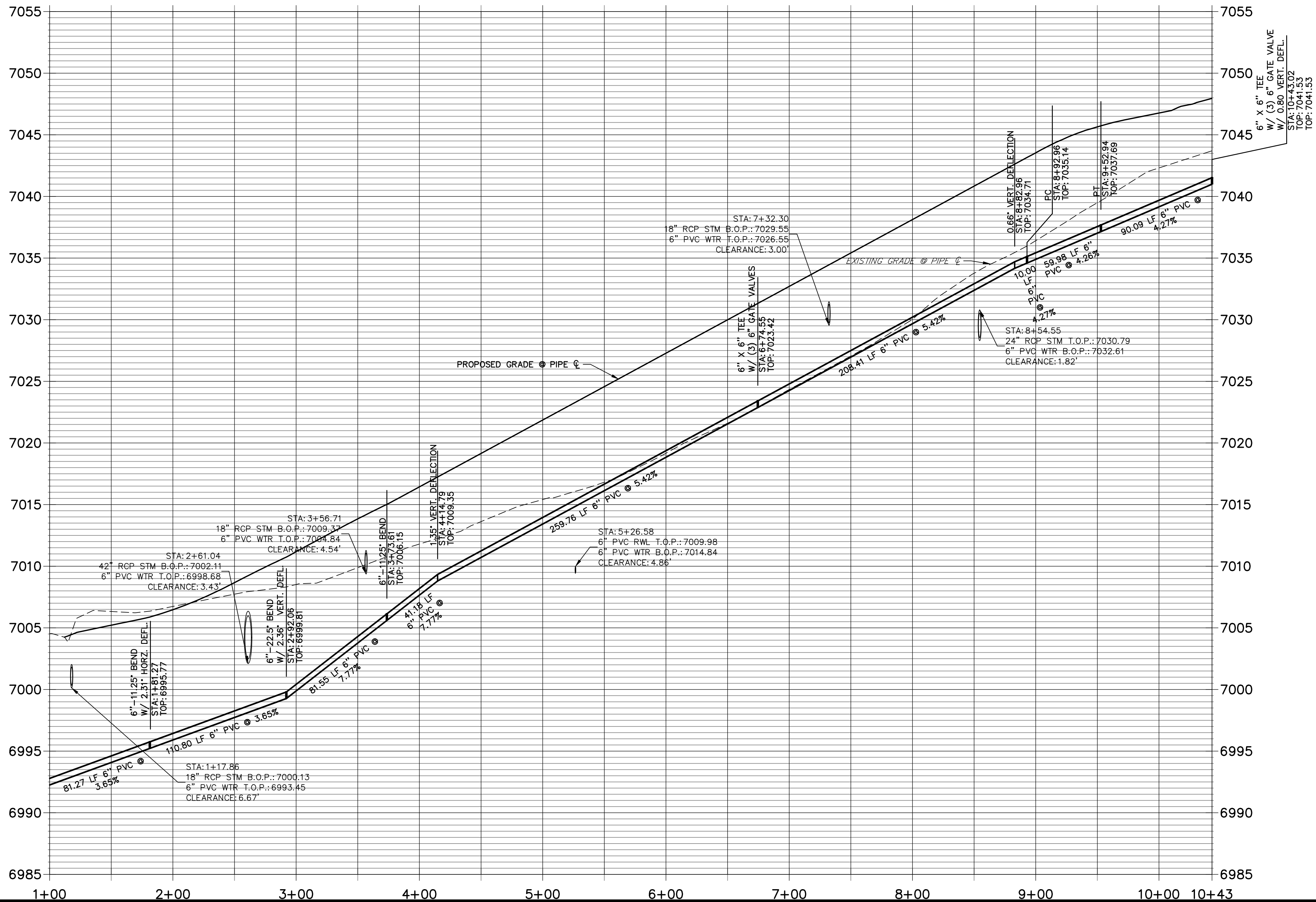
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, DESIGNATED BY WRITTEN AUTHORIZATION.

LINE TABLE		
LINE	BEARING	DISTANCE
L49	N52°10'30"E	54.26'
L50	N58°44'22"E	36.93'
L51	N65°45'14"E	25.51'
L52	N68°12'21"E	27.53'
L53	N65°56'45"E	28.32'
L54	S35°54'40"E	81.27'
L55	S49°28'23"E	110.80'
L56	S71°57'34"E	81.55'
L57	S83°12'34"E	300.95'
L58	S83°12'34"E	218.41'
L59	N80°19'55"E	90.09'

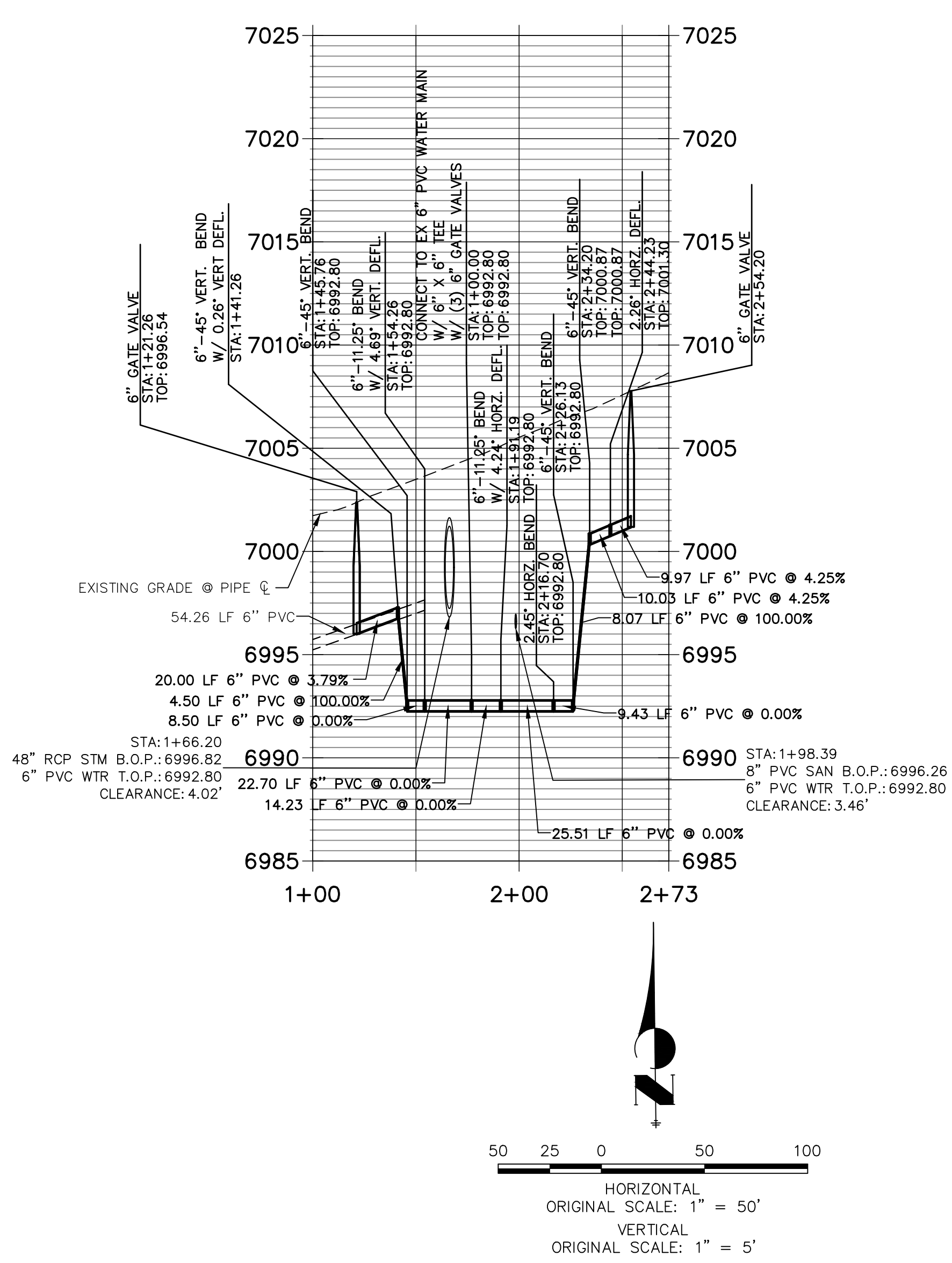
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	13°44'29"	250.07'	59.98'



WP01 PROFILE
STA 1+00.00 TO 10+43.02



EX WP01 PROFILE
STA 1+00.00 TO 2+72.55



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
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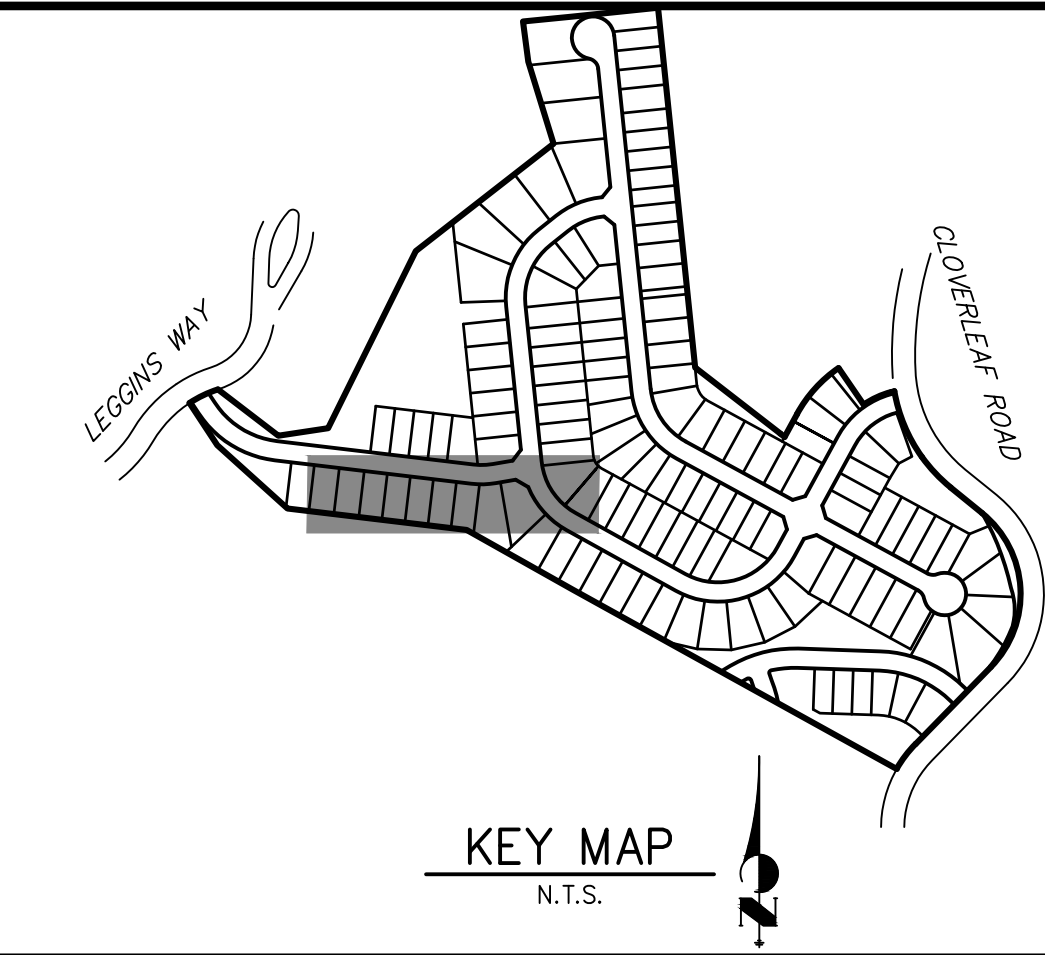
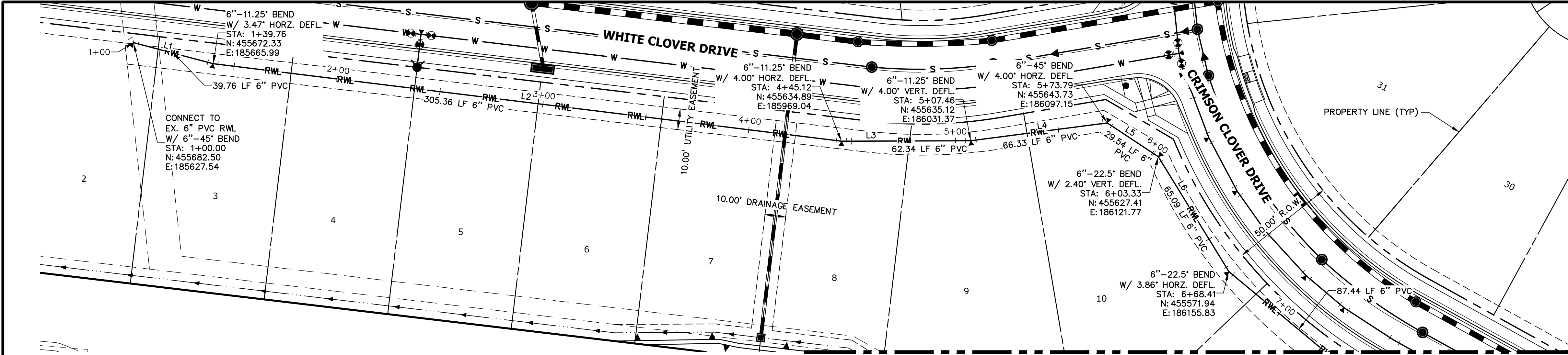
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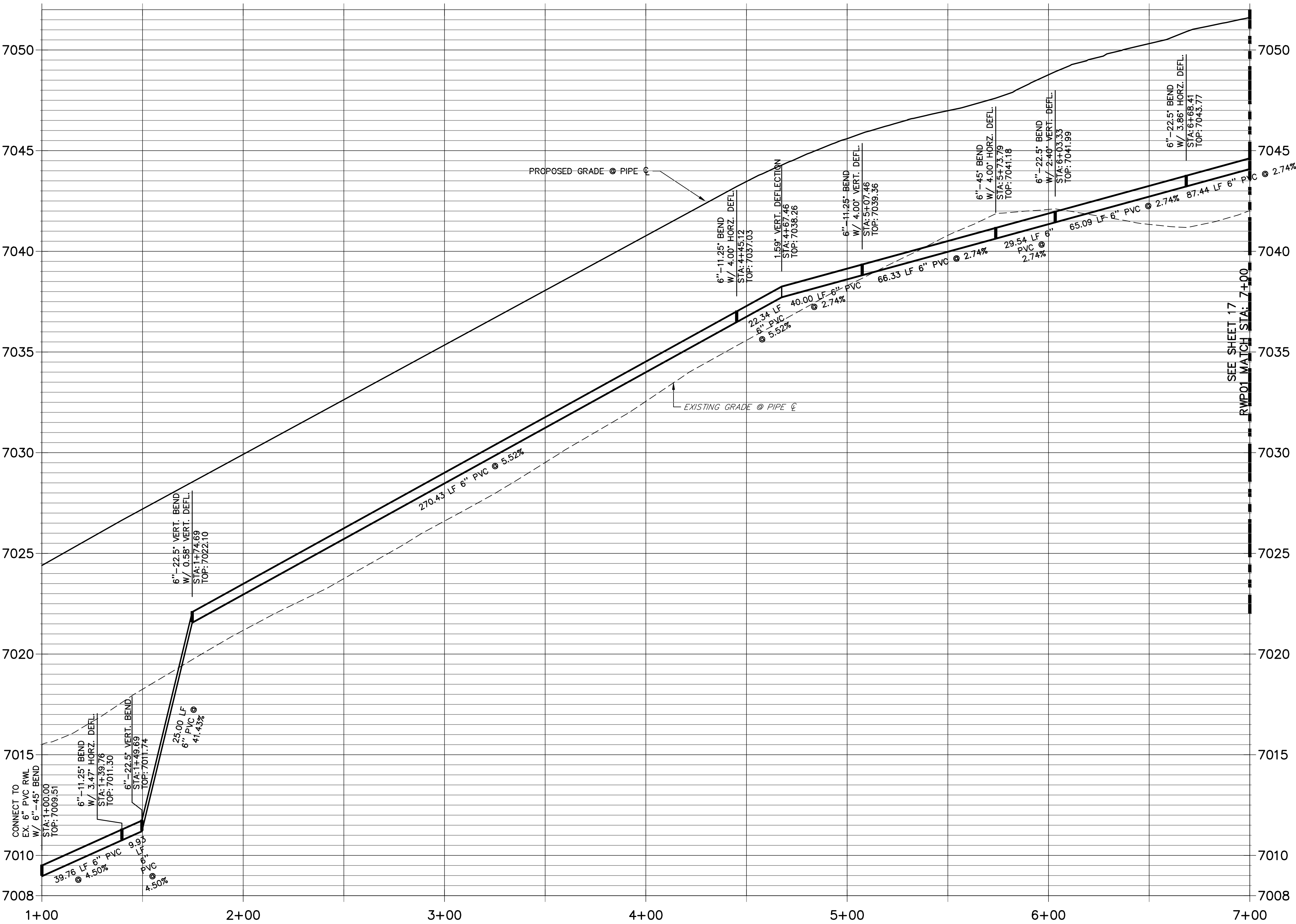
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CLOVERLEAF FILING 2	WATER DISTRIBUTION PLAN	SHEET 15 OF 21	JOB NO. 25158.01
H-SCALE	V-SCALE	DATE	DESIGNED BY
1"=50'	1"=5'	05/10/21	APL
		DRAWN BY	CHECKED BY
		APL	

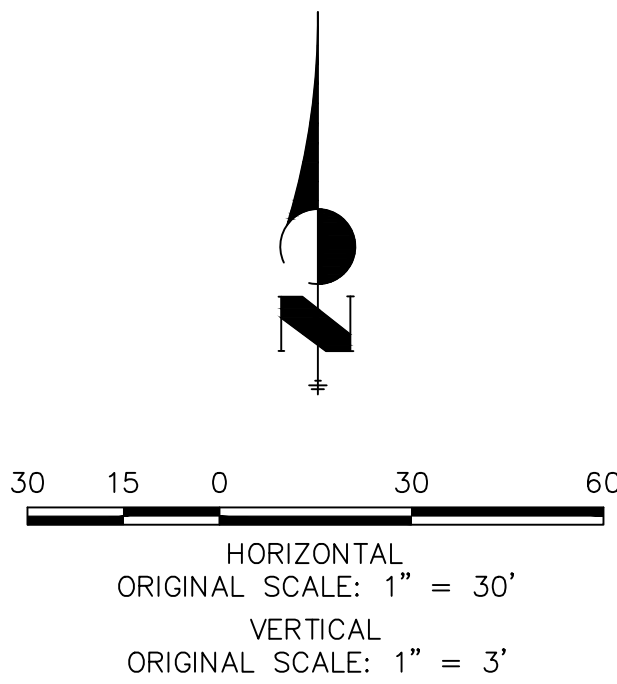


RWP01 PROFILE
STA 1+00.00 TO 7+00.00



LINE TABLE		
LINE	BEARING	DISTANCE
L1	S75°10'32"E	39.69'
L2	S82°57'27"E	305.43'
L3	N89°47'33"E	62.34'
L4	N82°32'33"E	66.33'
L5	S56°27'27"E	29.54'
L6	S31°33'22"E	65.09'

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



WOODMOOR WATER AND SANITATION DISTRICT NO. 1
APPROVED FOR CONSTRUCTION

DATE: BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

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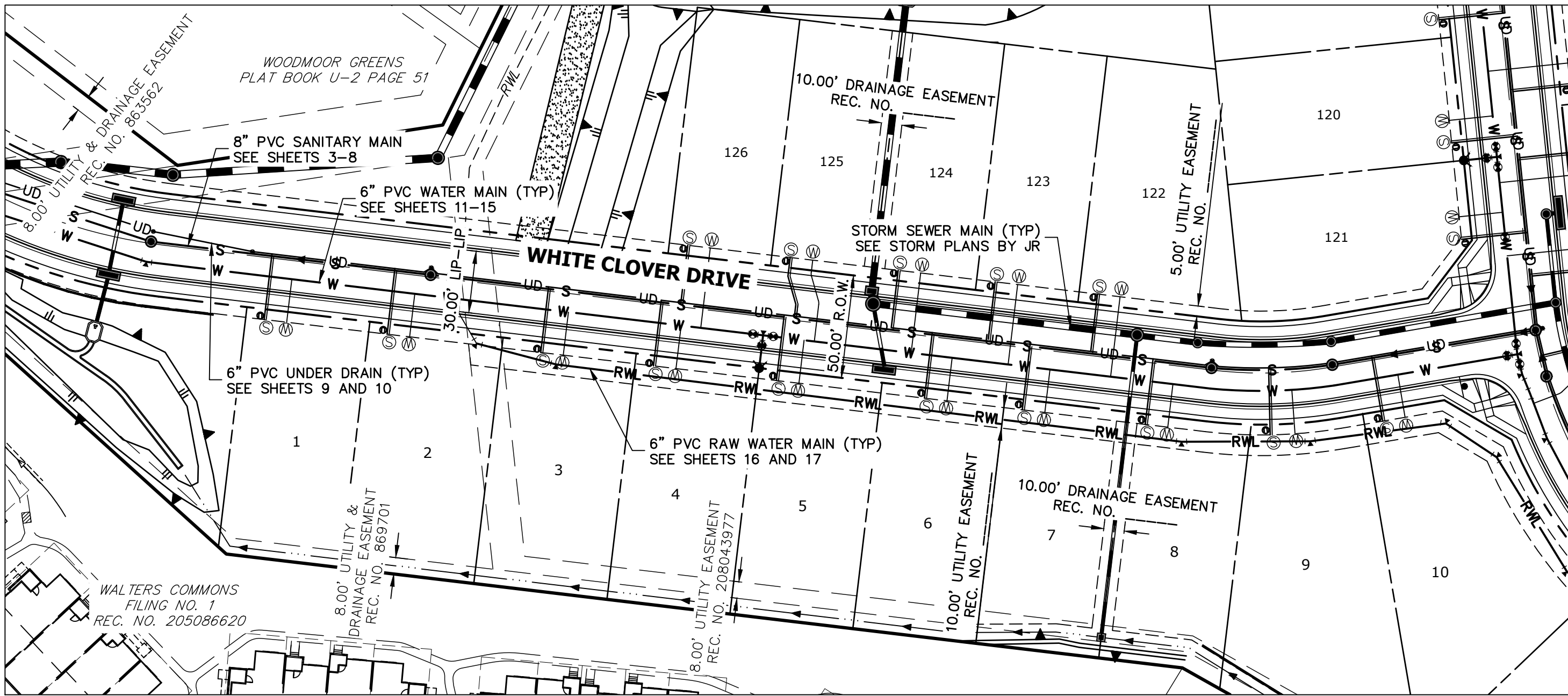
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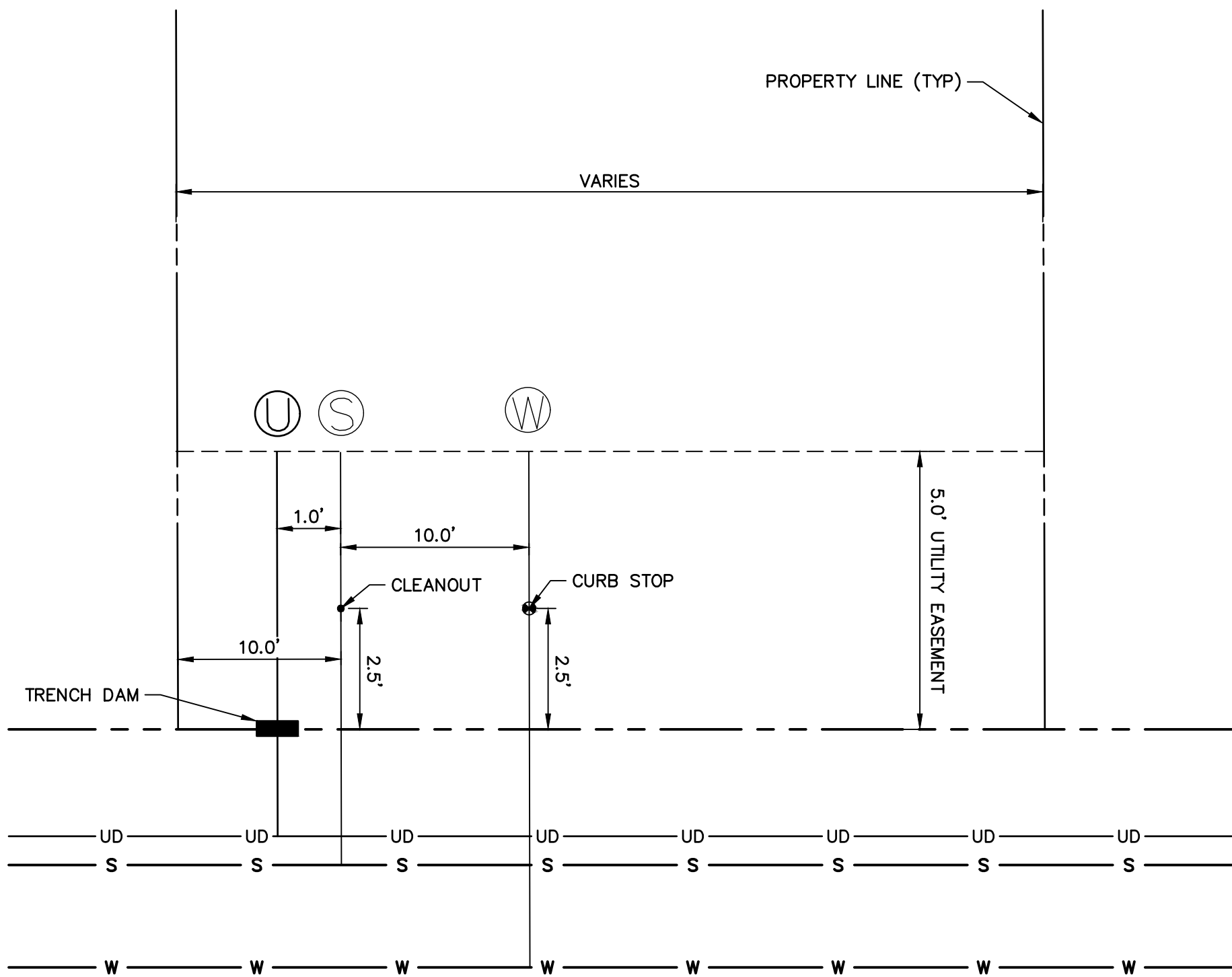
RAW WATER PLAN

SHEET 16 OF 21

JOB NO. 25158.01

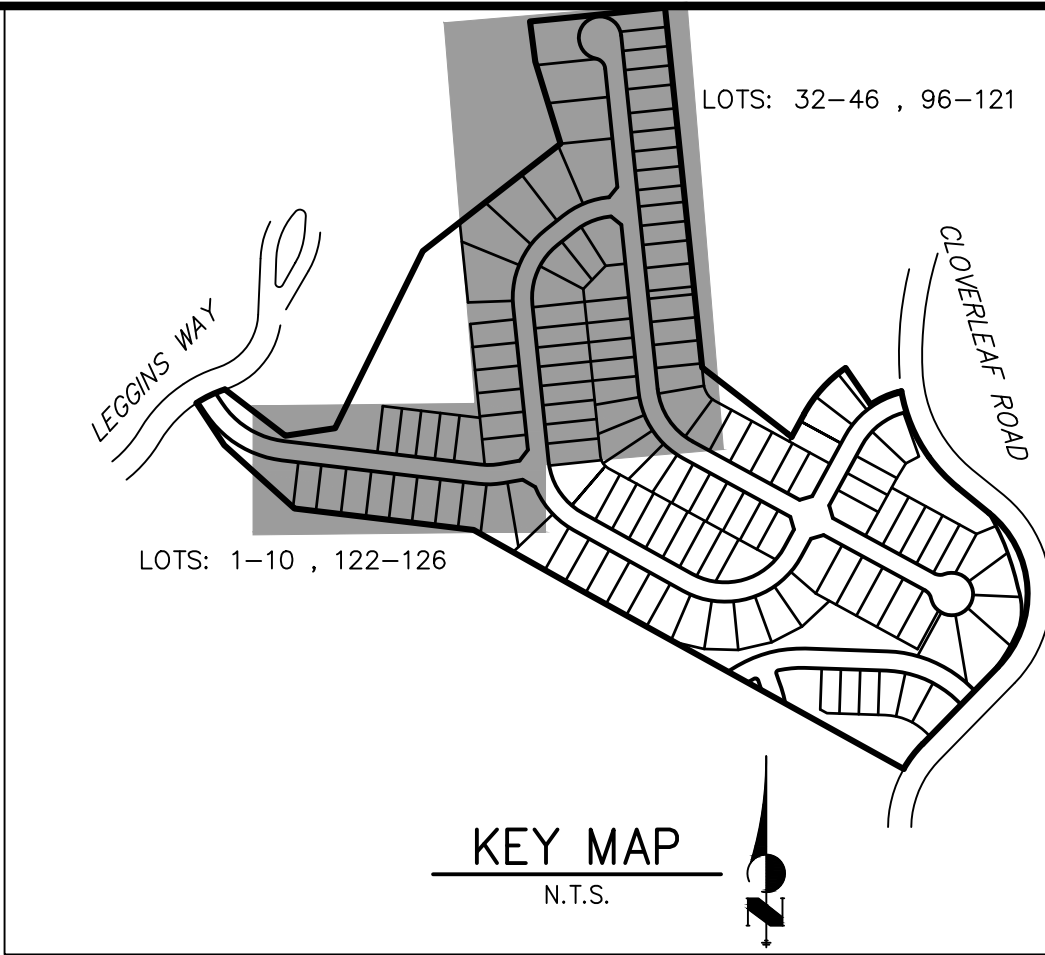


LOTS: 1-10 , 122-126

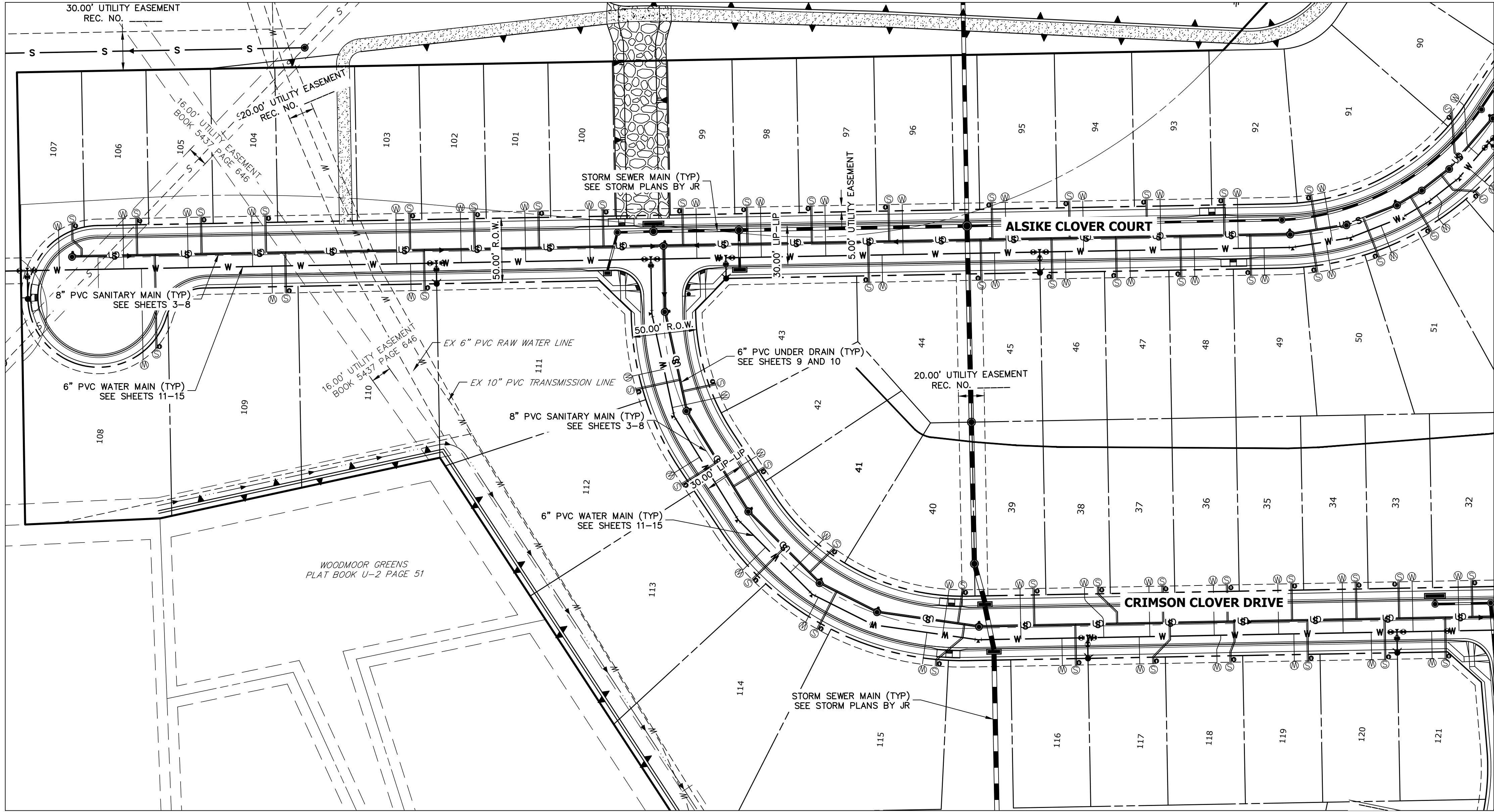


TYPICAL UTILITY SERVICE LAYOUT

SCALE: 1" = 1'



KEY MAP
N.T.S.



LOTS: 32-46 , 96-121

NOTES

1. ALL SANITARY SERVICE LINES SHALL BE 4" PVC AND INSTALLED PER DETAIL G-8.
2. ALL POTABLE WATER SERVICE LINES SHALL BE 3/4" TYPE K COPPER AND INSTALLED PER DETAIL G-6.
3. A MINIMUM OF 10' SEPARATION BETWEEN WATER AND SANITARY LINES IS REQUIRED. SERVICE SHALL BE AT LEAST 10' AWAY FROM SIDE LOT LINES, PER DETAIL G-5.
4. PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF WATER SERVICE IS COMPLETE.
5. PROVIDE METAL T-POST AT CLEAN OUT WHEN CONSTRUCTION OF SANITARY SERVICE IS COMPLETE.
6. SERVICES STUB OUTS SHALL EXTENDED TO THE INSIDE EDGE OF FRONT UTILITY EASEMENT PER DETAILS G-8 AND G-6.
7. ALL UNDER DRAIN SERVICES SHALL BE INSTALLED PER COLORADO SPRINGS UTILITY FIGURE 13-3. SEE SHEET 10.
8. SEE THIS SHEET FOR TYPICAL UTILITY SERVICE LAYOUT.



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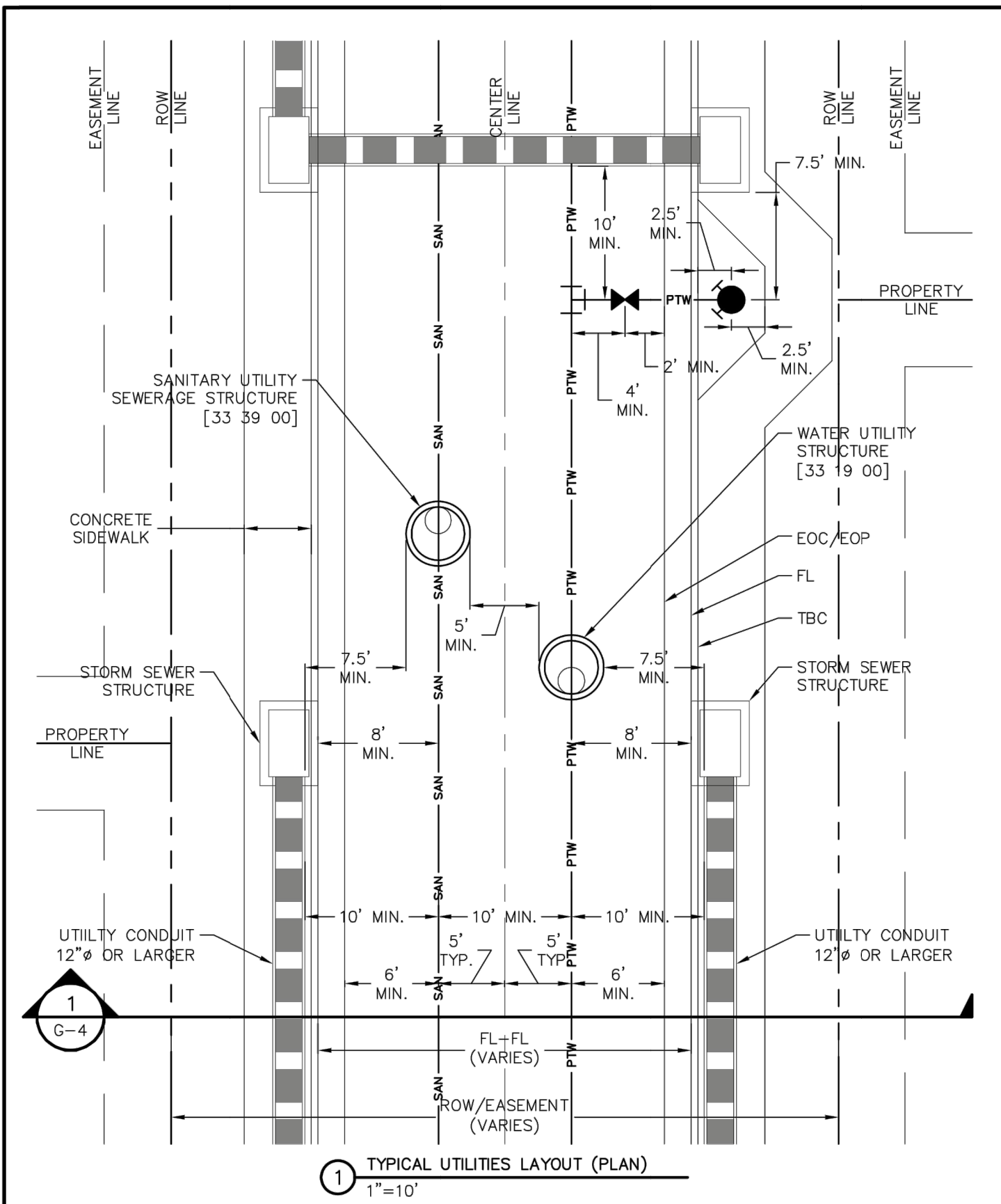
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				N/A			05/10/21	APL	APL	

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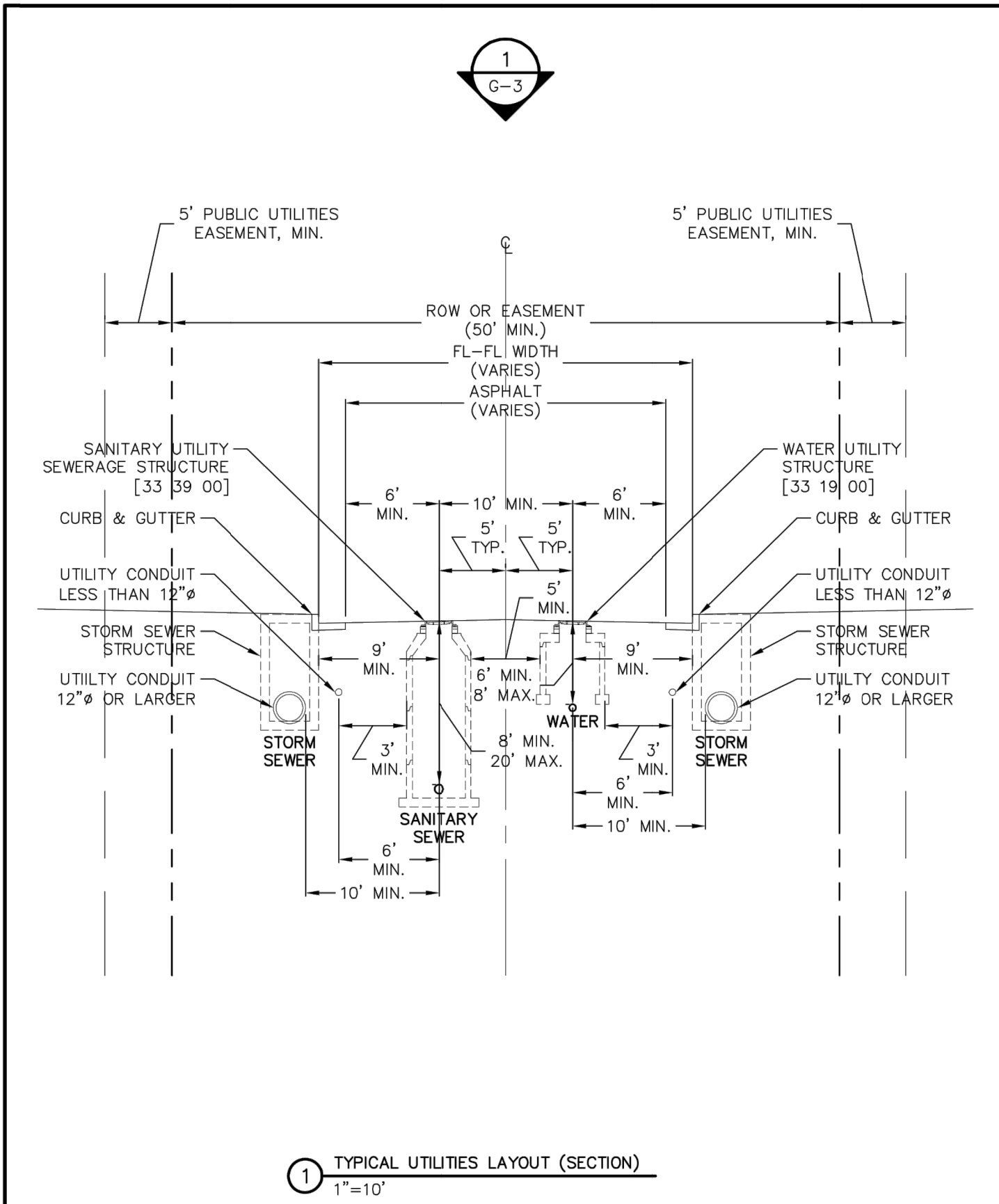
UTILITY SERVICE PLAN

SHEET 18 OF 21

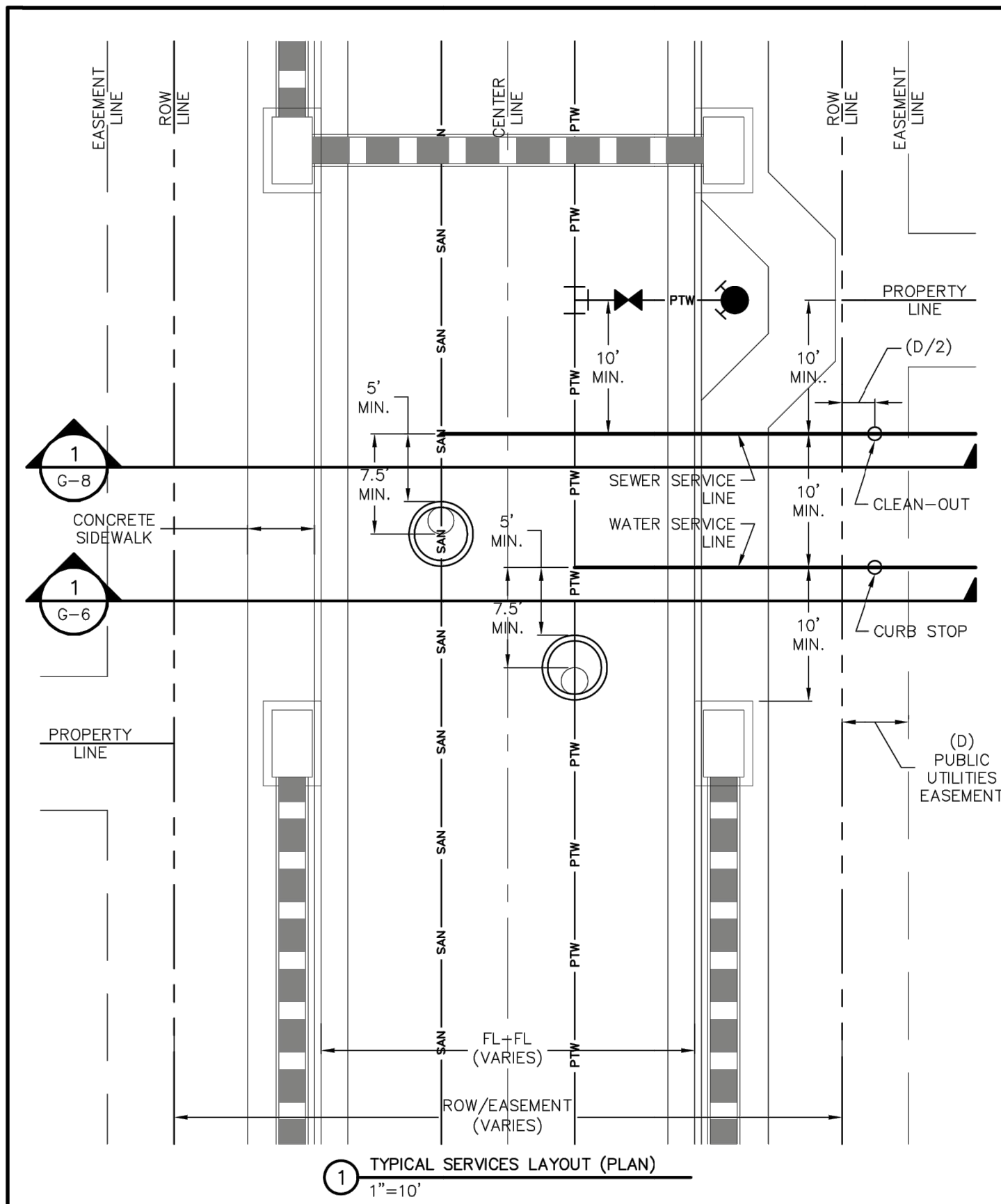
JOB NO. 25158.01



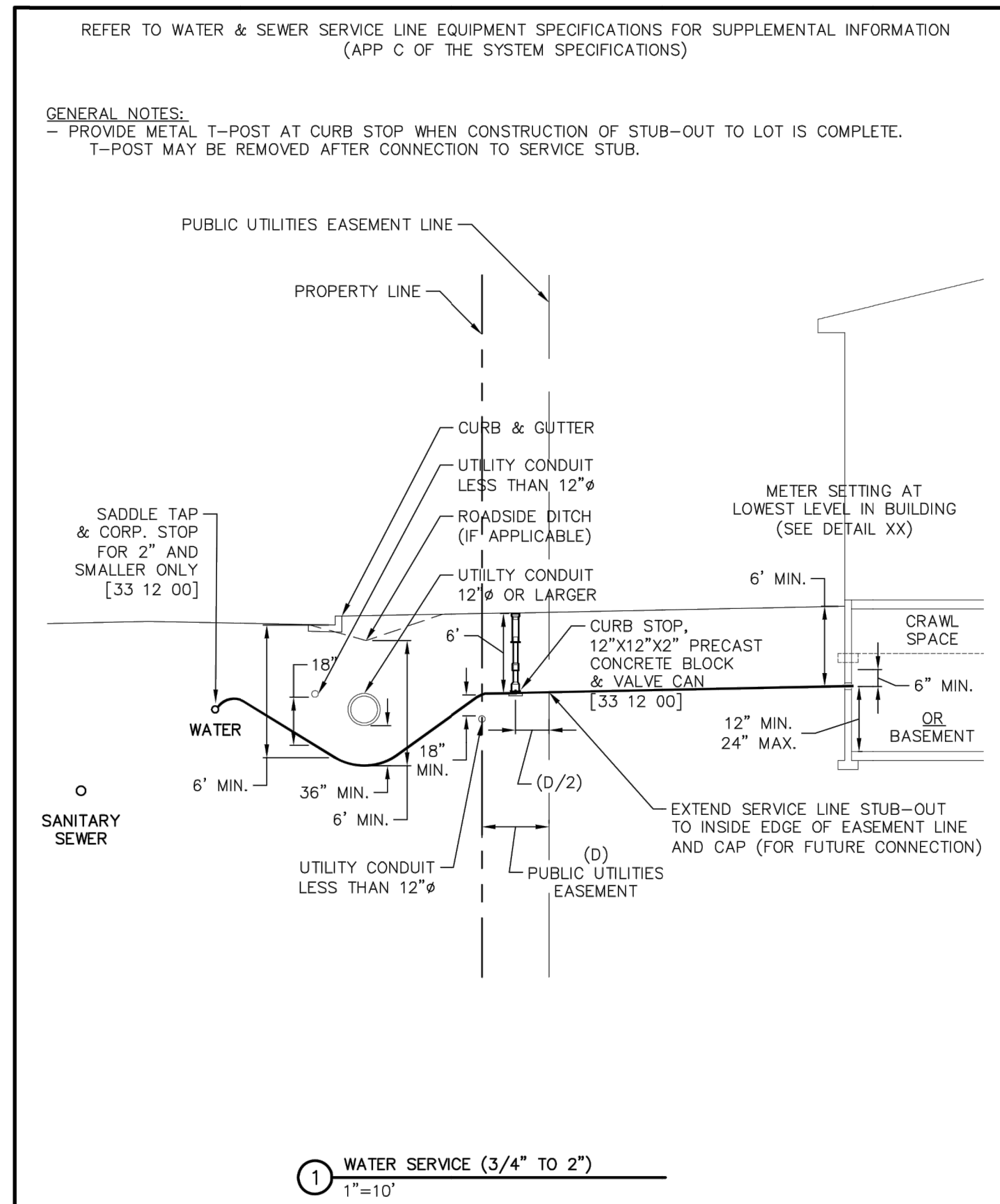
	TYPICAL UTILITIES LAYOUT (PLAN)	G-3
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	



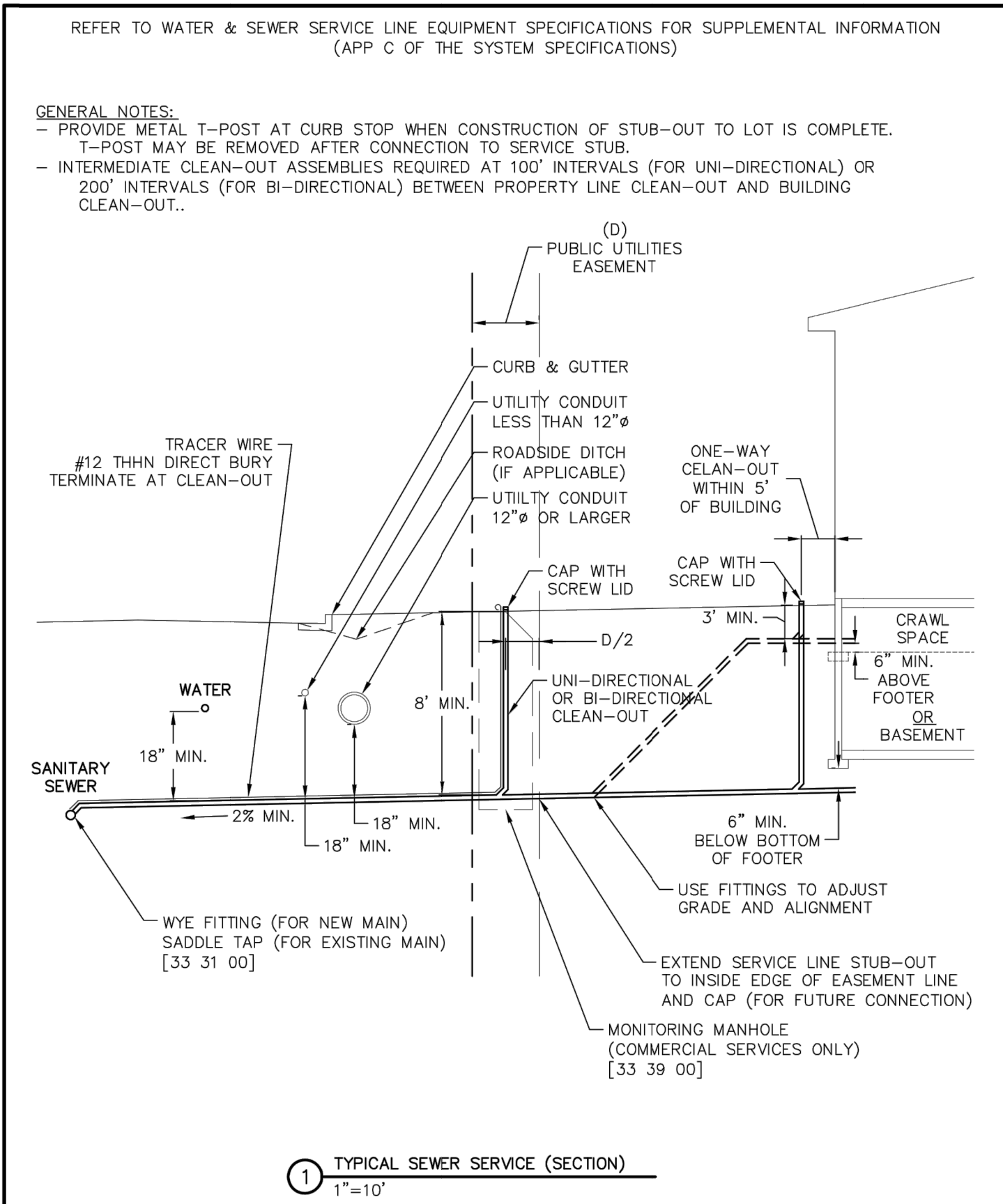
	TYPICAL UTILITIES LAYOUT (SECTION)	G-4
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	



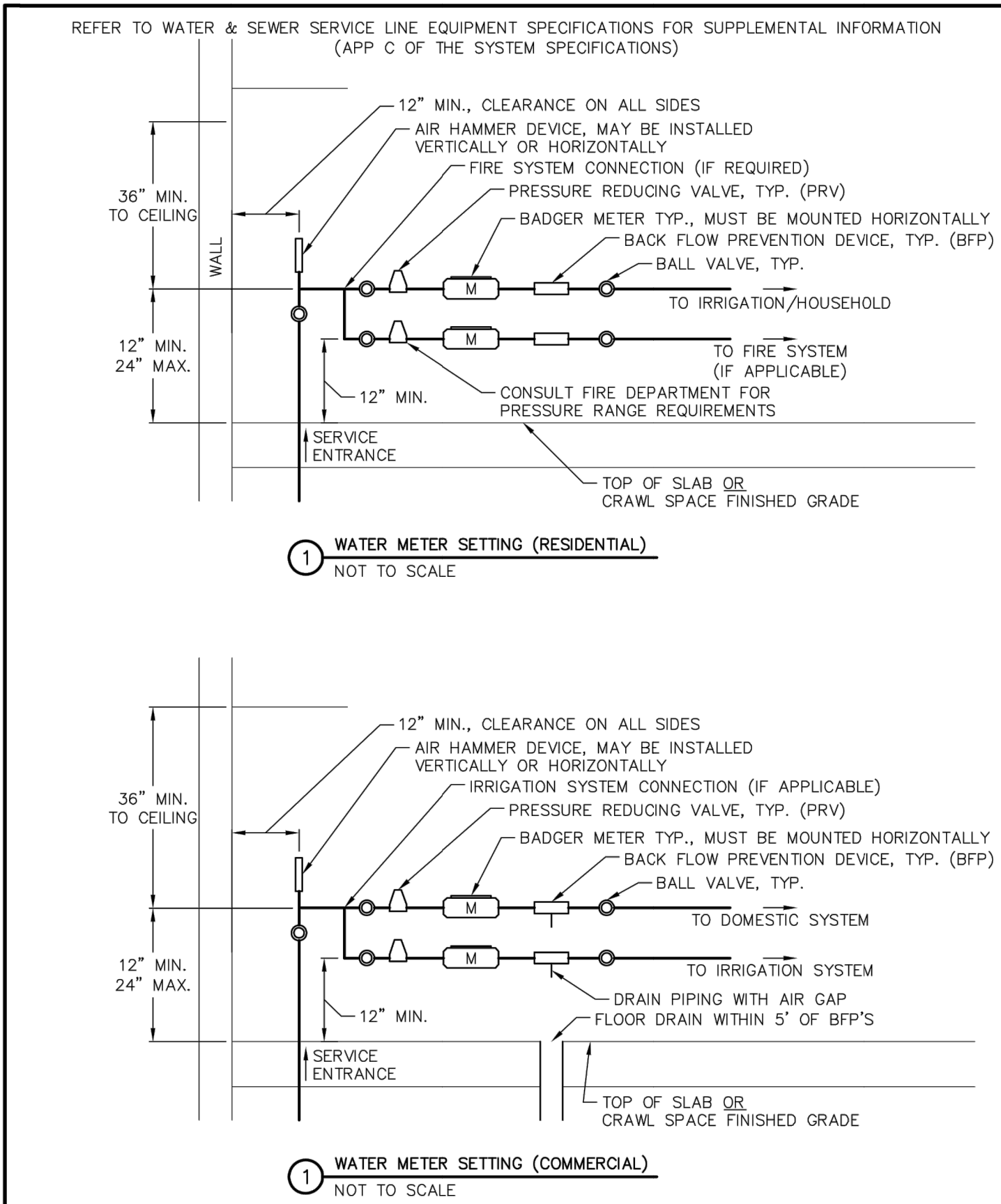
	TYPICAL SERVICES LAYOUT (PLAN)	G-5
	GENERAL	-
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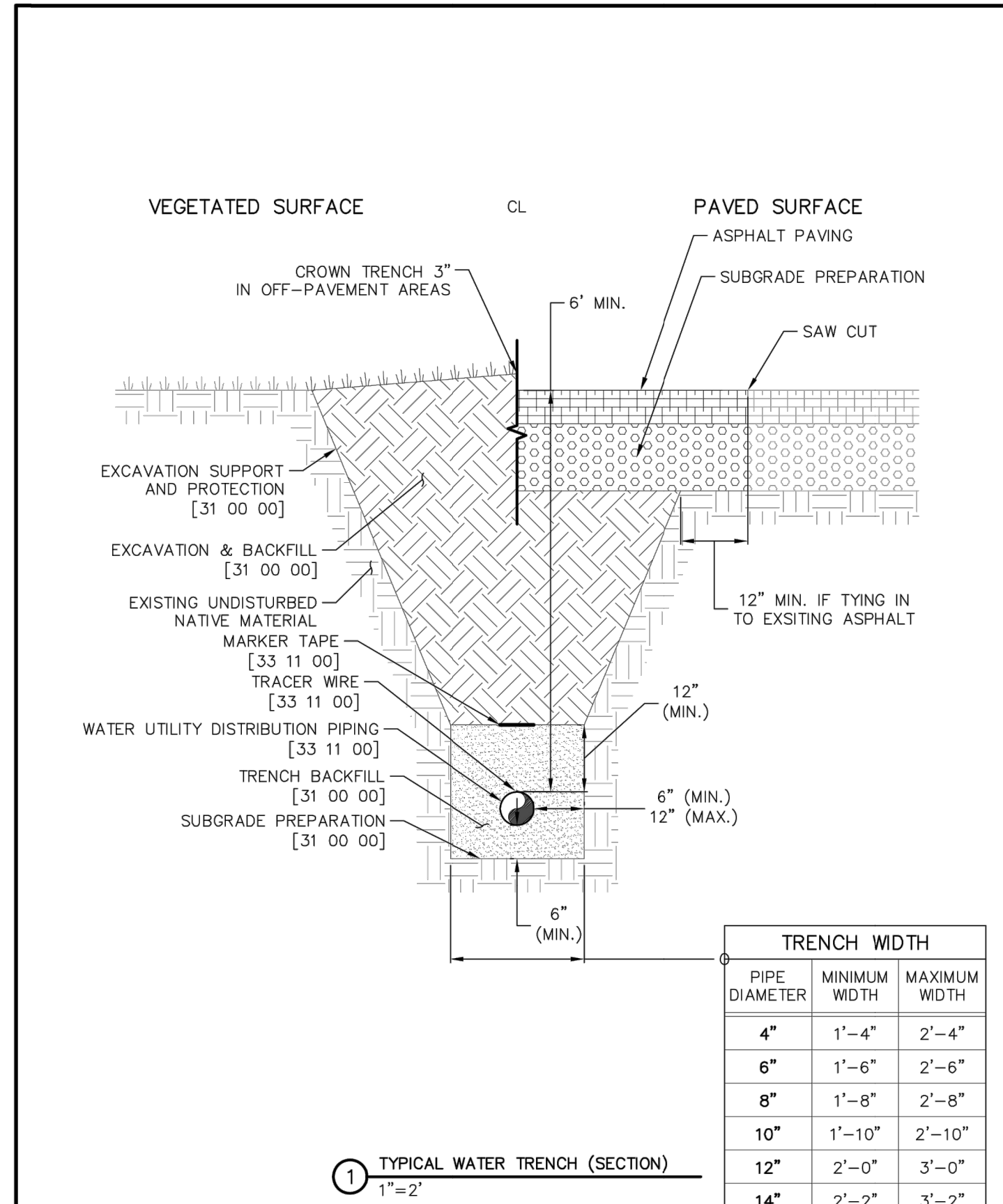
	WATER SERVICE (3/4" TO 2")	G-6
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	



	TYPICAL SEWER SERVICE (SECTION)	G-8
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	



	WATER METER SETTING DETAIL	G-9
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	



	TYPICAL WATER TRENCH	W-1
	WATER UTILITY DISTRIBUTION PIPING	33 11 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	

REFER TO WATER & SEWER SERVICE LINE EQUIPMENT SPECIFICATIONS FOR SUPPLEMENTAL INFORMATION (APP C OF THE SYSTEM SPECIFICATIONS)		
GENERAL NOTES: - PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF STUB-OUT TO LOT IS COMPLETE. T-POST MAY BE REMOVED AFTER CONNECTION TO SERVICE STUB.		
1"=10'		
	WATER SERVICE (3/4" TO 2")	G-6
	GENERAL	-
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS. MAY 13, 2014	

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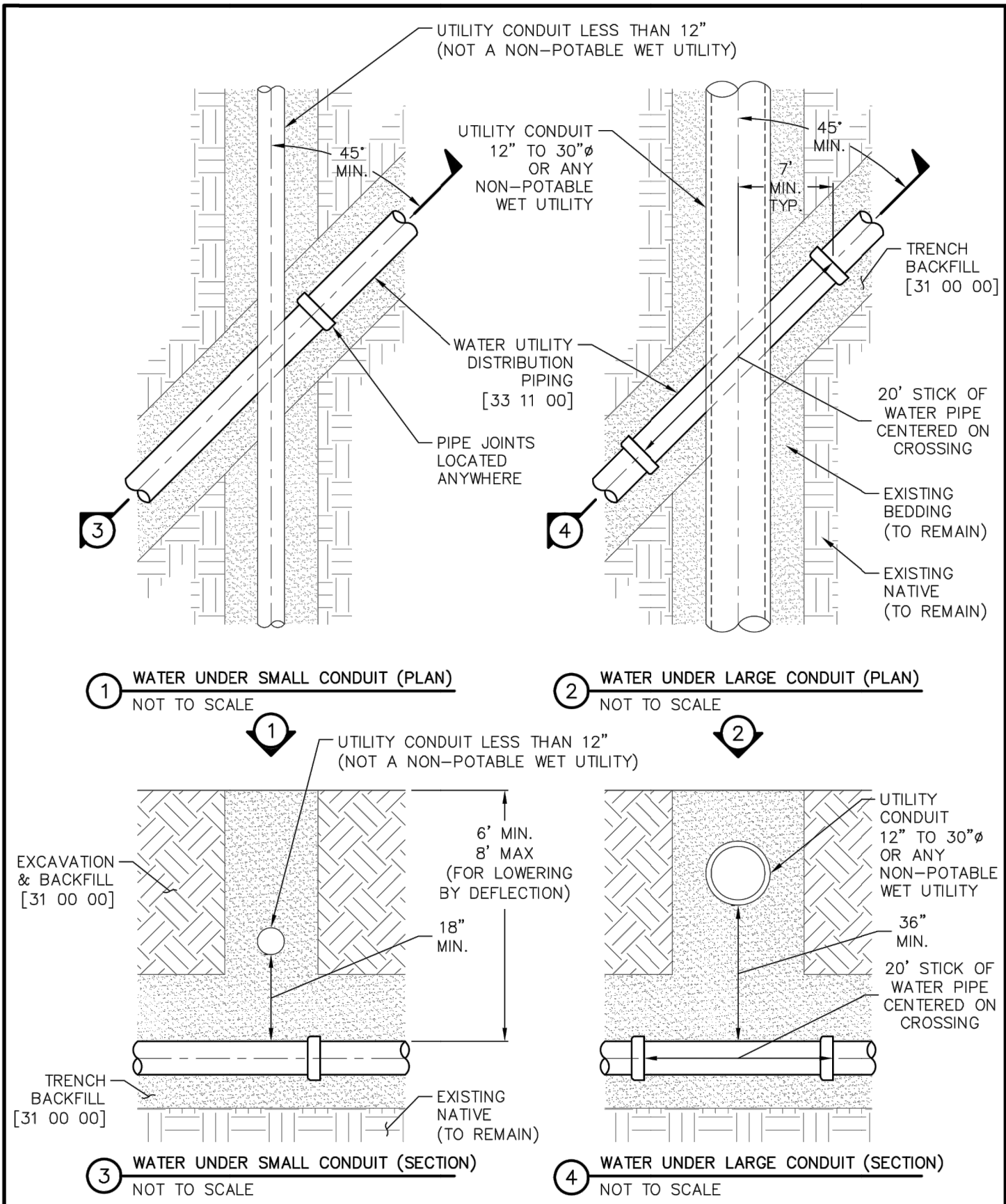
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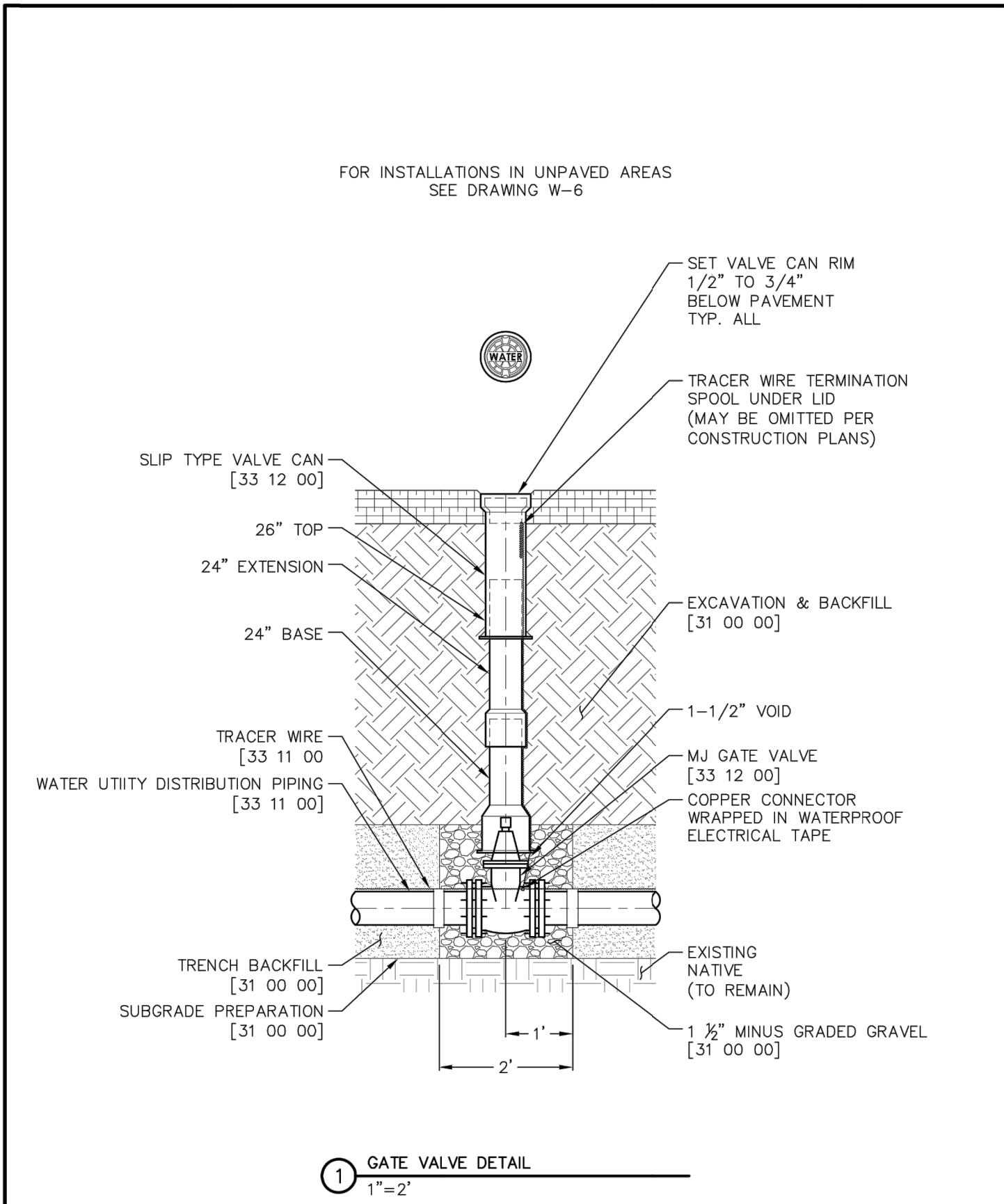
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				N/A	N/A	05/10/21	APL	APL	
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DETAIL SHEETS									
SHEET 20 OF 21									
JOB NO. 25158.01									

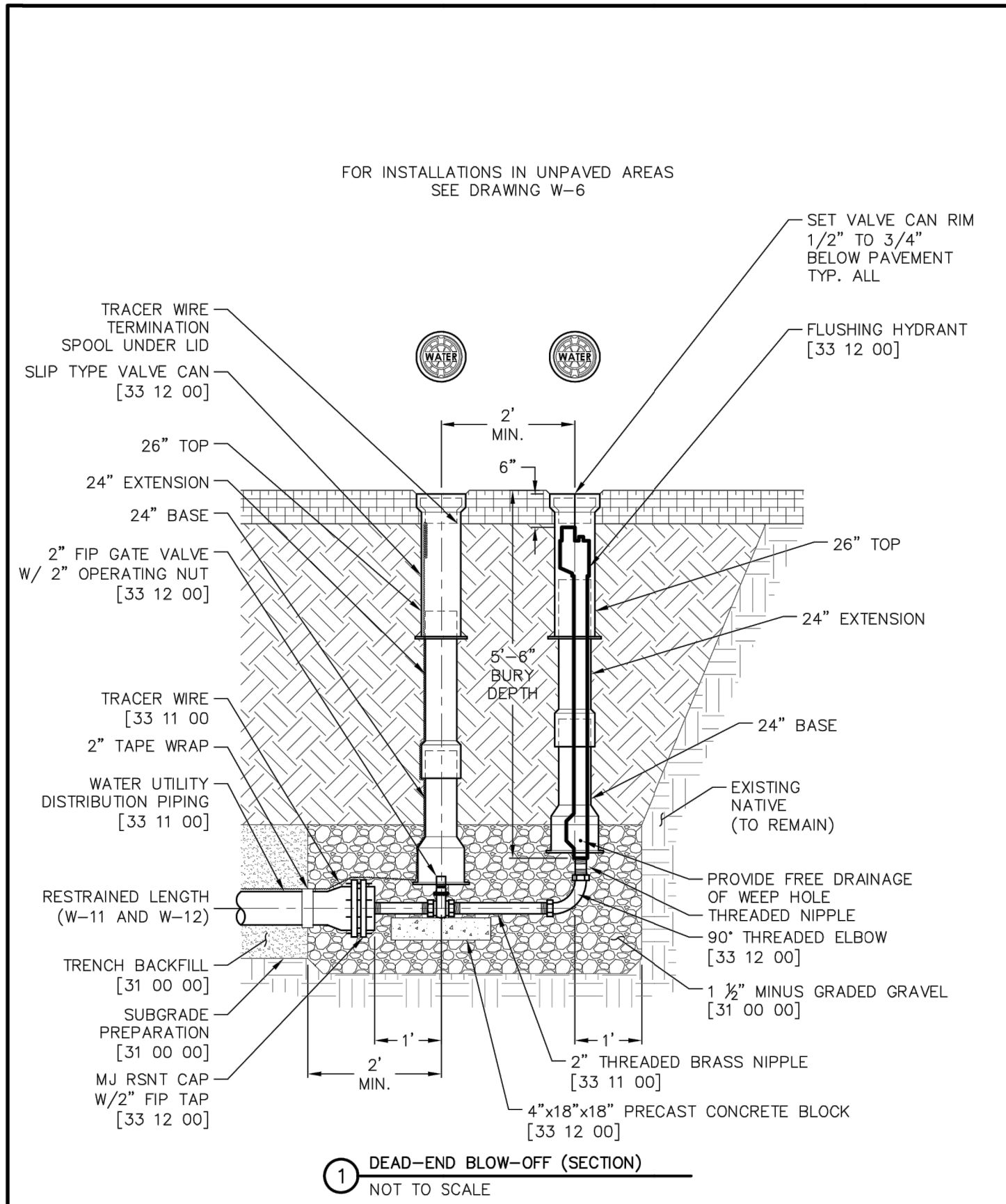
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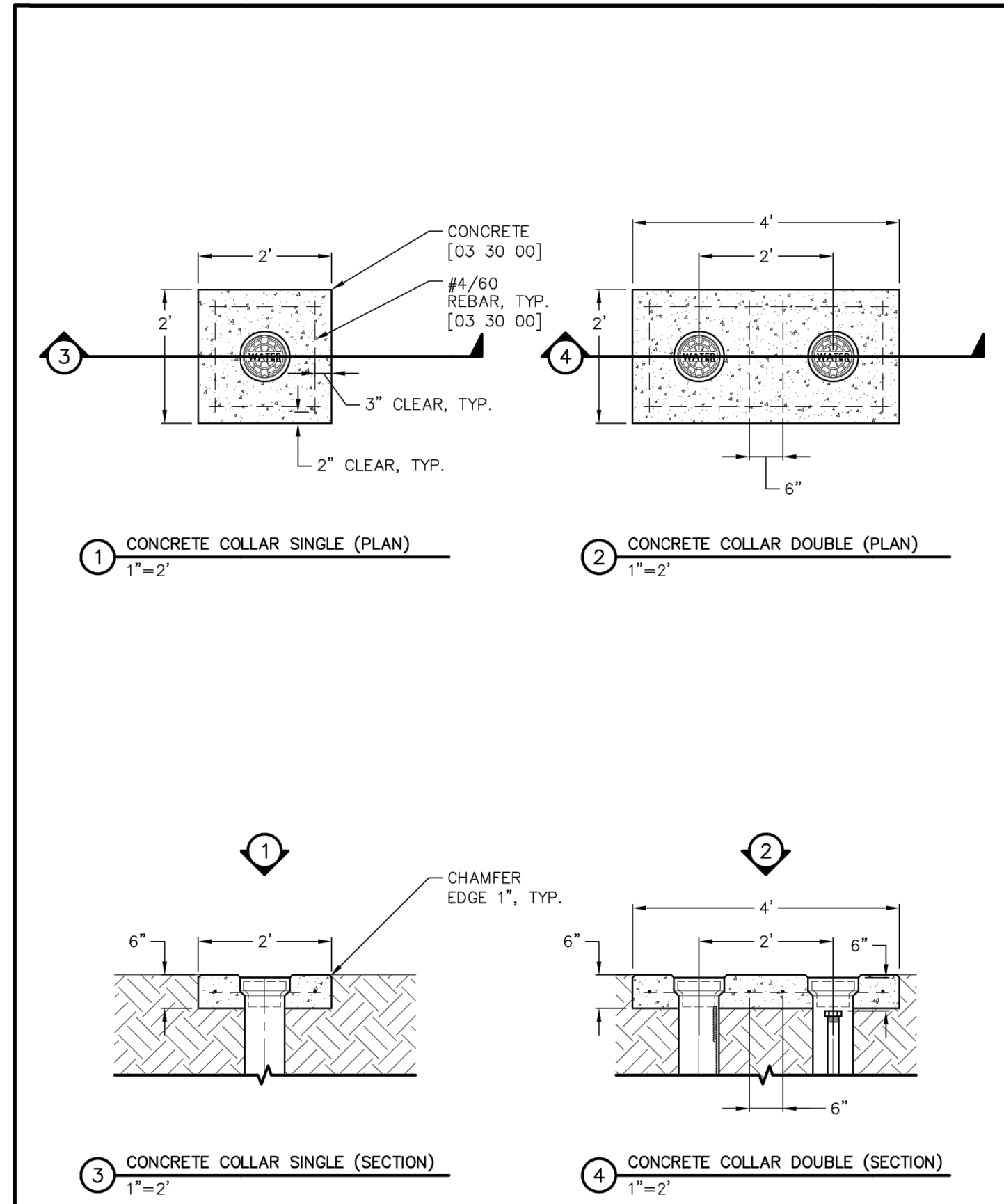
 WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER CROSSING UNDER UTILITIES		W-3
	WATER UTILITY DISTRIBUTION PIPING		33 11 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014




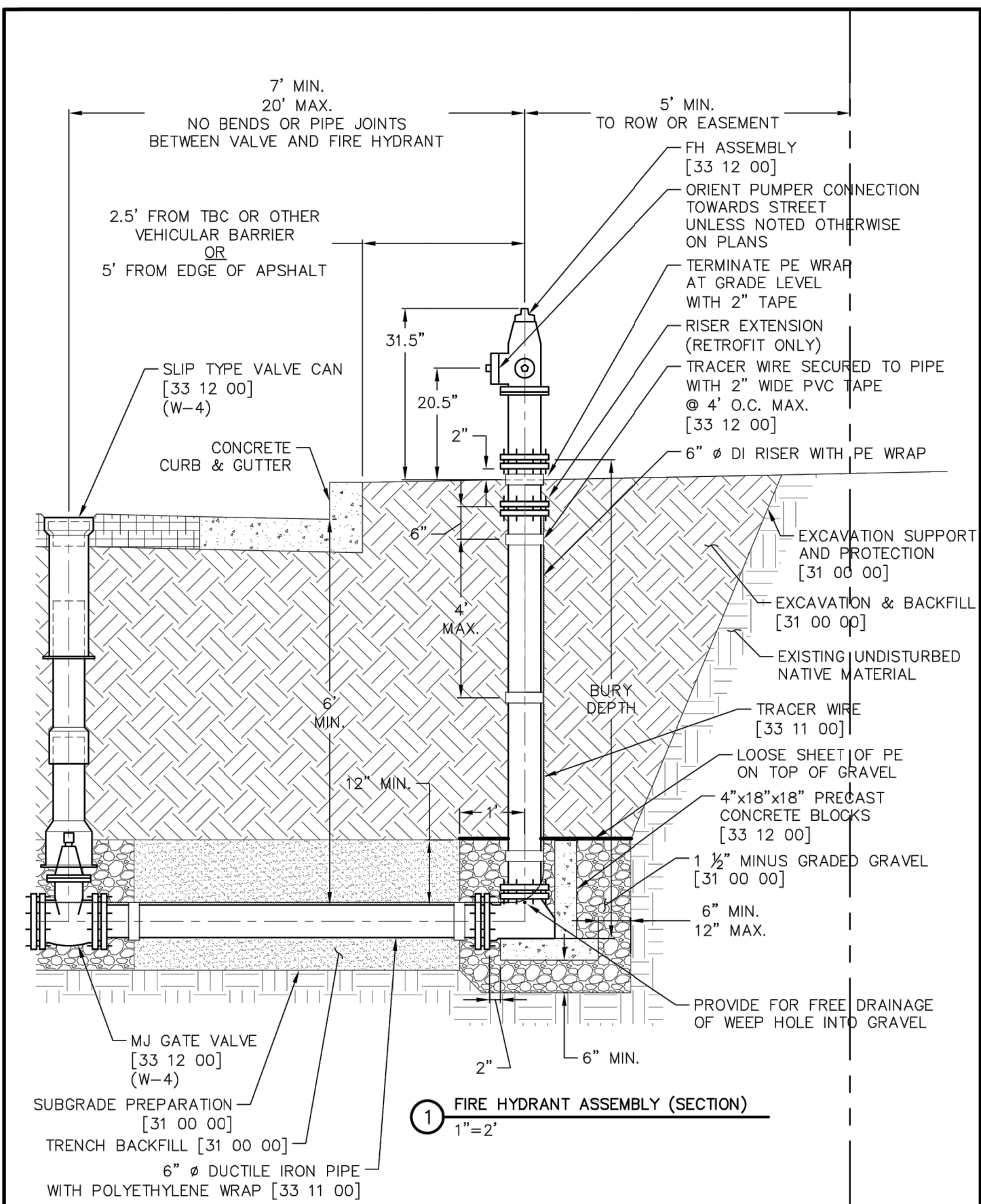
 WOODMOOR WATER & SANITATION DISTRICT NO. 1	GATE VALVE		W-4
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014



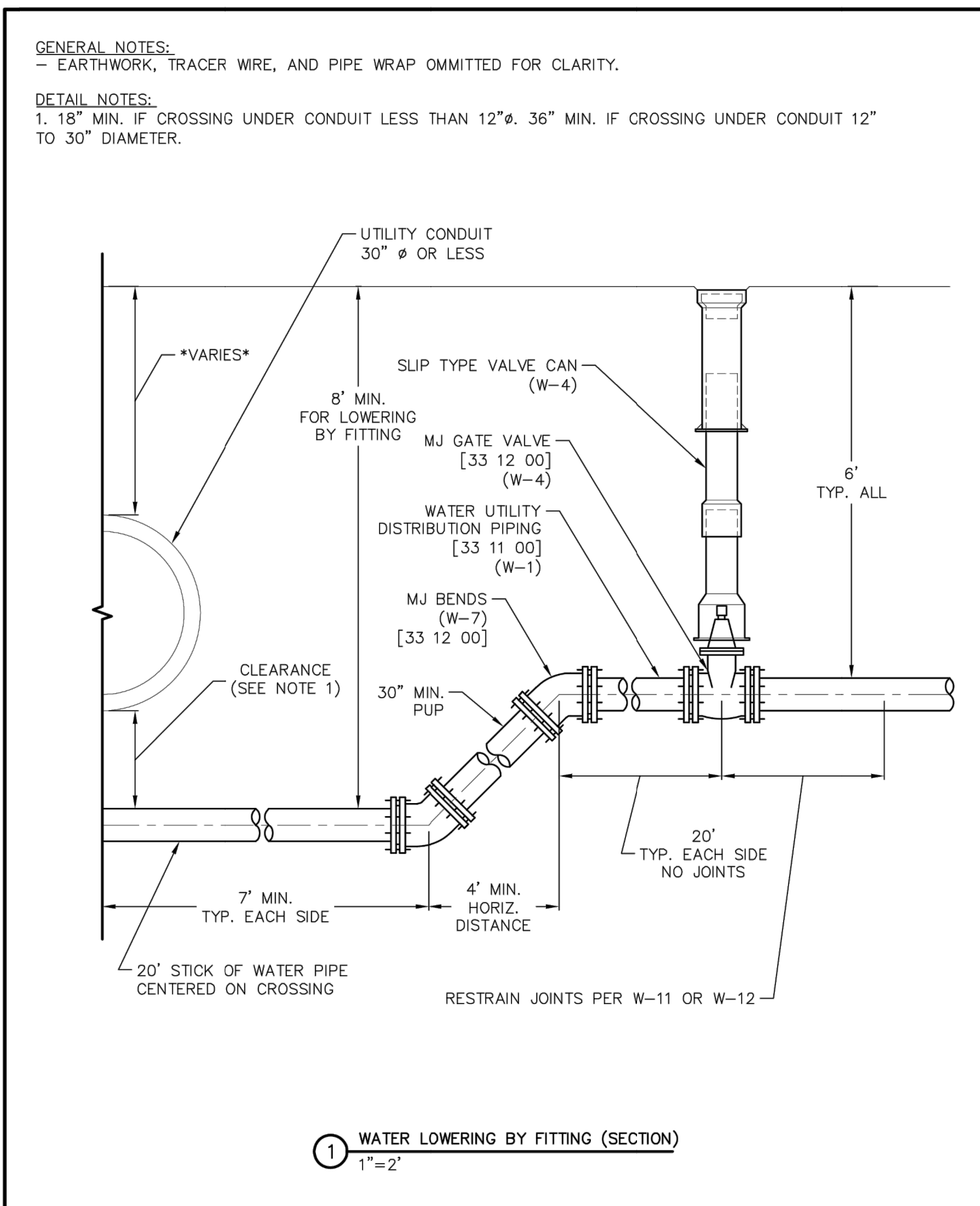
 WOODMOOR WATER & SANITATION DISTRICT NO. 1	DEAD-END BLOW-OFF ASSEMBLY		W-5
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014




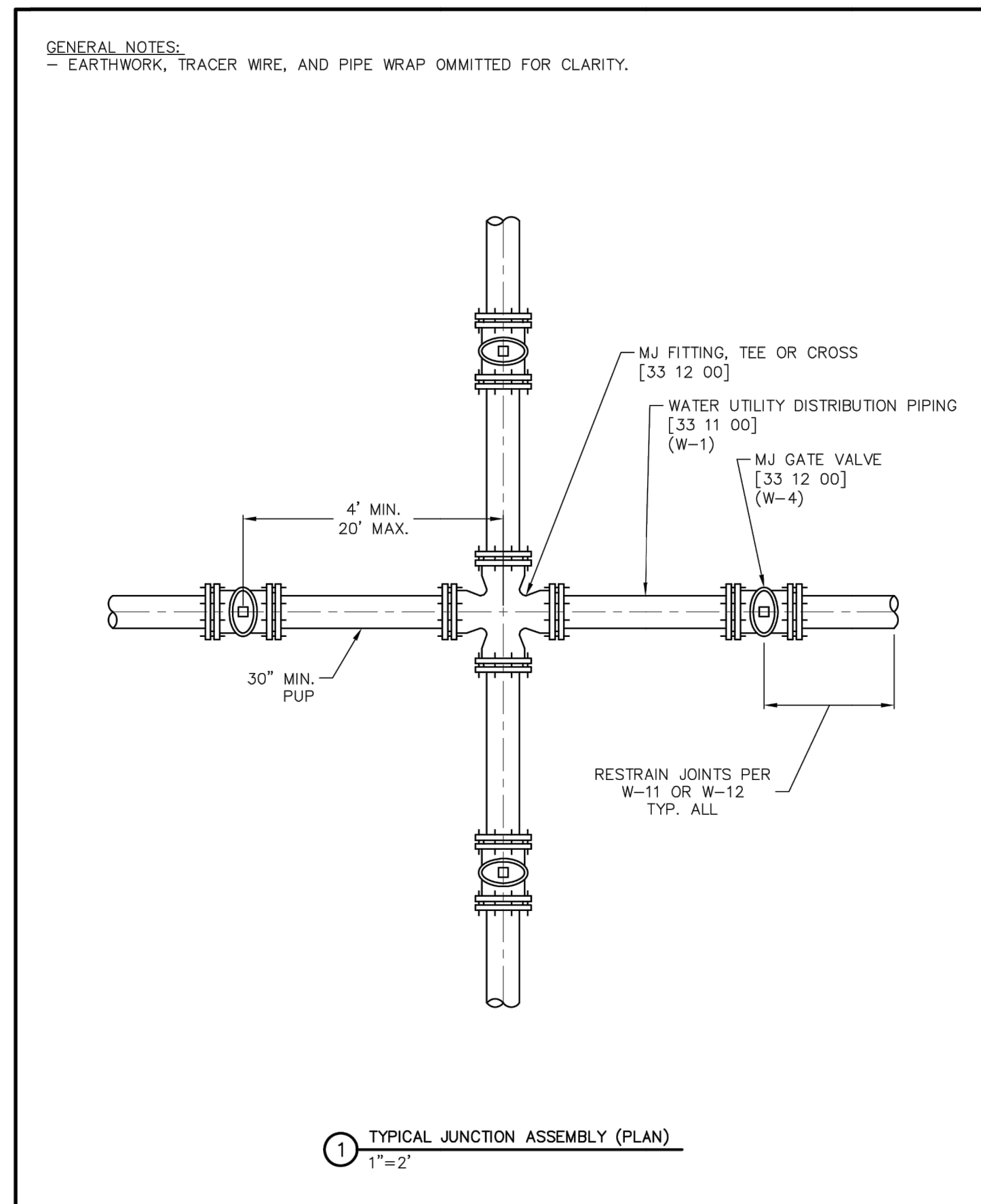
 WOODMOOR WATER & SANITATION DISTRICT NO. 1	VALVE CANS IN UNPAVED AREAS		W-6
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014



 WOODMOOR WATER & SANITATION DISTRICT NO. 1	FIRE HYDRANT ASSEMBLY		W-8
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014



 WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER LOWERING BY FITTING		W-9
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014



 WOODMOOR WATER & SANITATION DISTRICT NO. 1	WATER MAIN JUNCTION		W-10
	WATER UTILITY DISTRIBUTION EQUIPMENT		33 12 00
	THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS, AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.		MAY 13, 2014



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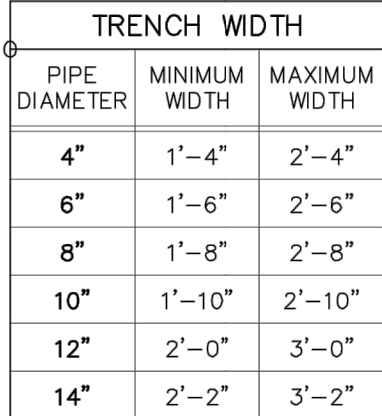
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						05/10/21	APL	APL		21	21	25158.01

CALCULATION METHOD & ASSUMPTIONS
 EBAA IRON RESTRAINED LENGTH CALCULATOR (VERSION 5.4)
 PIPE MATERIAL: PVC
 SOIL TYPE: CH, GRAN. FILL
 SAFETY FACTOR: 1.5:1
 TRENCH TYPE: 5
 DEPTH OF BURY: 6 FEET
 TEST PRESSURE: 200 PSI

NOMINAL PIPE DIAMETER	LENGTH
[IN]	[FT]
4"	44
6"	62
8"	82

NOTES:

1. RESTRAINED PIPE LENGTH SHALL BE ACHIEVED WITH MECHANICAL JOINT RESTRAINTS OR BELL RESTRAINTS. DO NOT USE THREADED TIE RODS OR CONCRETE KICKER BLOCKS.
2. FOR VALVES, BENDS, AND TEE RUNS THE LENGTHS OF TIED PIPES ARE MEASURED EACH WAY.
3. FOR DEAD-ENDS, TEE BRANCHES, AND REDUCERS THE LENGTHS OF TIED PIPE ARE MEASURED ONE WAY IN THE OPPOSITE DIRECTION OF THE APPLIED THRUST.
4. F.O. = MECHANICAL JOINT RESTRAINT AT FITTING ONLY.



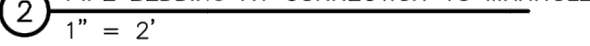
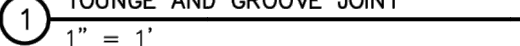
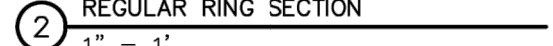
WOODMOOR
WATER & SANITATION DISTRICT NO. 1

TYPICAL ECCENTRIC CONE MANHOLE
SANITARY UTILITY SEWERAGE STRUCTURES
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM



WOODMOOR
WATER & SANITATION DISTRICT NO. 1

WATER UTILITY DISTRIBUTION EQUIPMENT



WOODMOOR
WATER & SANITATION DISTRICT NO. 1

MANHOLE DETAILS

SANITARY UTILITY SEWERAGE STRUCTURE

MANHOLES IN PAVED AREAS

SANITARY UTILITY SEWERAGE STRUCTURES

STANDARD SEWER RING & COVER