

PROSPECT FARMS SUDIVISION

PROSPECT FARMS PHASE VI- MAPC PRELIMINARY APPROVAL JONESBORO, CRAIGHEAD COUNTY, ARKANSAS

LOCAL CONTACTS

CITY OF JONESBORO ENGINEERING DEPT.	870-932-2438
CITY OF JONESBORO PLANNING AND ZONING	870-932-0406
CITY, WATER, & LIGHT	870-935-5581
AT&T	1-800-464-7928
RITTER COMMUNICATIONS	870-336-3400
SUDDENLINK COMMUNICATIONS	870-935-3615
CENTER POINT ENERGY	870-972-6682



VICINITY MAP
(NOT TO SCALE)

NAD83 Arkansas State Planes, North Zone, US Foot

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*INDICATES INCLUDED SHEET

PROSPECT FARMS PHASE VI

COVER PAGE



REVISIONS		
DATE	BY	DESCRIPTION

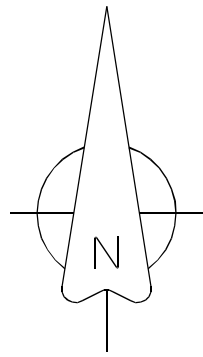
DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=77'

SHEET NUMBER:
C-1

MARK MORRIS P.E.
3221 SHELBY DRIVE
JONESBORO, AR 72404
PH: 1-870-919-7700
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MARK MORRIS

CURVE	DELTA ANGLE	ARC LENGTH	CHORD LENGTH	RADIUS	CHORD BEARING
C1	79°55'17"	278.98'	256.90'	200.00'	S 49°18'36" W
C2	63°56'58"	223.23'	211.82'	200.00'	S 57°17'45" W
C3	17°54'04"	131.72'	131.69'	230.00'	S 11°58'27" W
C4	13°25'51"	53.91'	53.79'	230.00'	S 22°38'25" W
C5	14°05'22"	56.56'	56.42'	230.00'	S 36°24'01" W
C6	13°39'29"	54.83'	54.70'	230.00'	S 50°18'27" W
C7	13°30'46"	54.24'	54.12'	230.00'	S 63°51'34" W
C8	13°36'32"	54.63'	54.50'	230.00'	S 77°25'13" W
C9	15°07'45"	20.26'	20.25'	230.00'	S 88°44'52" W
C10	13°25'51"	85.33'	85.13'	364.00'	S 22°38'25" W
C11	14°05'22"	89.51'	89.29'	364.00'	S 36°24'01" W
C12	13°39'29"	89.77'	89.56'	364.00'	S 50°18'27" W
C13	13°30'46"	85.89'	85.69'	364.00'	S 63°51'34" W
C14	13°36'32"	86.46'	86.25'	364.00'	S 77°25'13" W
C15	15°07'45"	33.09'	32.09'	364.00'	S 88°44'52" W
C16	73°20'45"	465.97'	434.80'	364.00'	S 52°35'52" W
C17	78°07'08"	231.78'	214.24'	170.00'	S 50°12'40" W
C18	63°56'58"	189.74'	180.09'	170.00'	S 57°17'45" W
C19	2°38'44"	10.62'	10.62'	230.00'	N 26°38'39" E
C20	15°43'50"	63.15'	62.95'	230.00'	N 35°49'56" E
C21	13°30'46"	54.24'	54.12'	230.00'	N 50°71'14" E
C22	13°30'46"	54.24'	54.12'	230.00'	N 63°57'59" E
C23	13°30'46"	54.24'	54.12'	230.00'	N 77°28'49" E
C24	5°02'06"	20.21'	20.21'	230.00'	N 86°48'11" E
C25	9°17'26"	55.12'	55.06'	339.86'	N 41°28'24" W
C26	93°05'23"	40.68'	36.39'	25.04'	N 75°49'02" E
C27	11°29'08"	94.22'	94.06'	470.00'	S 51°51'18" E



- LEGEND
- These standard symbols will be found in the drawing.
- FOUND CORNER AS NOTED
 - SET 1/2" REBAR W/ CAP
 - ⦿ FD COTTON PICKER SPINDLE
 - ▲ HIGHWAY RIGHT OF WAY MARKER
 - ⊙ FOUND REBAR
 - △ CALCULATED CORNER
 - X—X— FENCE LINE
 - E—E— ELECTRIC
 - ⊙ SET PK NAIL
 - ⊕ POWER POLE
 - 5000 - DENOTES ADDRESSES

SURVEYORS NOTES:

- BEARINGS ARE STATE PLANE GRID BEARINGS(NAD 83 DATUM)AS PER GPS OBSERVATION ON SITE DURING SURVEY AND ARE TO BE USED TO DEFINE THE GENERAL DIRECTION AND TRUE ANGLE AT THE INTERSECTION OF THE PROPERTY AND LAND LINES.
- PROPERTY IS SUBJECT TO UTILITY SERVICES AND UNDERGROUND UTILITY LINES NOT LOCATED.

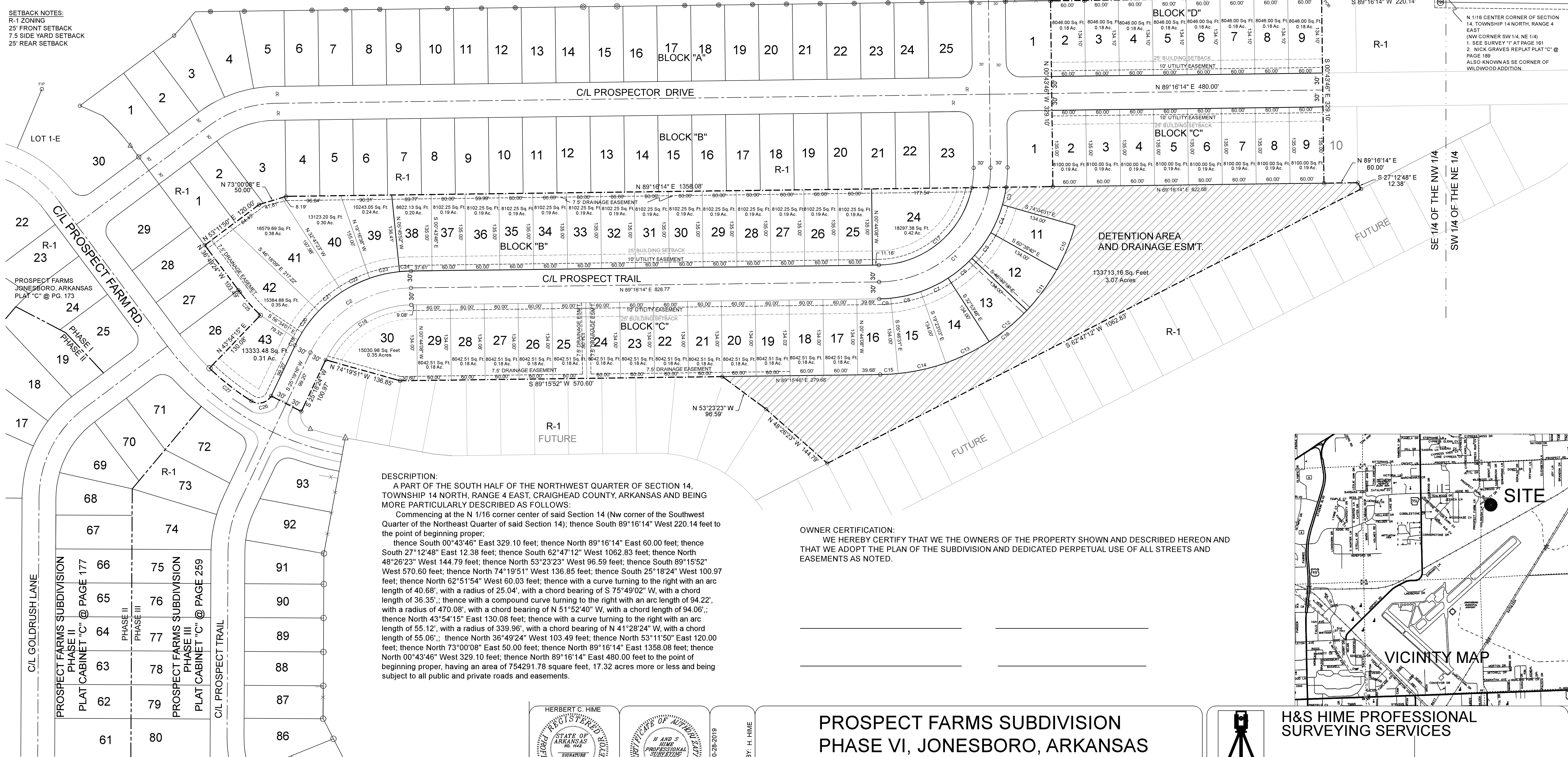
SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY I HAVE ON THIS DATE SURVEYED THE ABOVE DESCRIBED PROPERTY IN ACCORDANCE WITH MONUMENTS FOUND THIS PLAT CONFORMS TO THAT SURVEYED.

H&S HIME PROFESSIONAL SURVEYING SERVICES
2619 CARAWAY RD. STE. "D"
JONESBORO, ARKANSAS 72401

FLOOD INSURANCE NOTE: By graphics plotting only, this property is in ZONE X of the Flood Insurance Rate Map, Community Panel No. 05031C0063 effective date of 9/27/1991. Exact designations can only be determined by an Elevation Certificate. Based on the above information, this property IS NOT in a Special Flood Hazard Area.

SETBACK NOTES:
R-1 ZONING
25' FRONT SETBACK
7.5 SIDE YARD SETBACK
25' REAR SETBACK



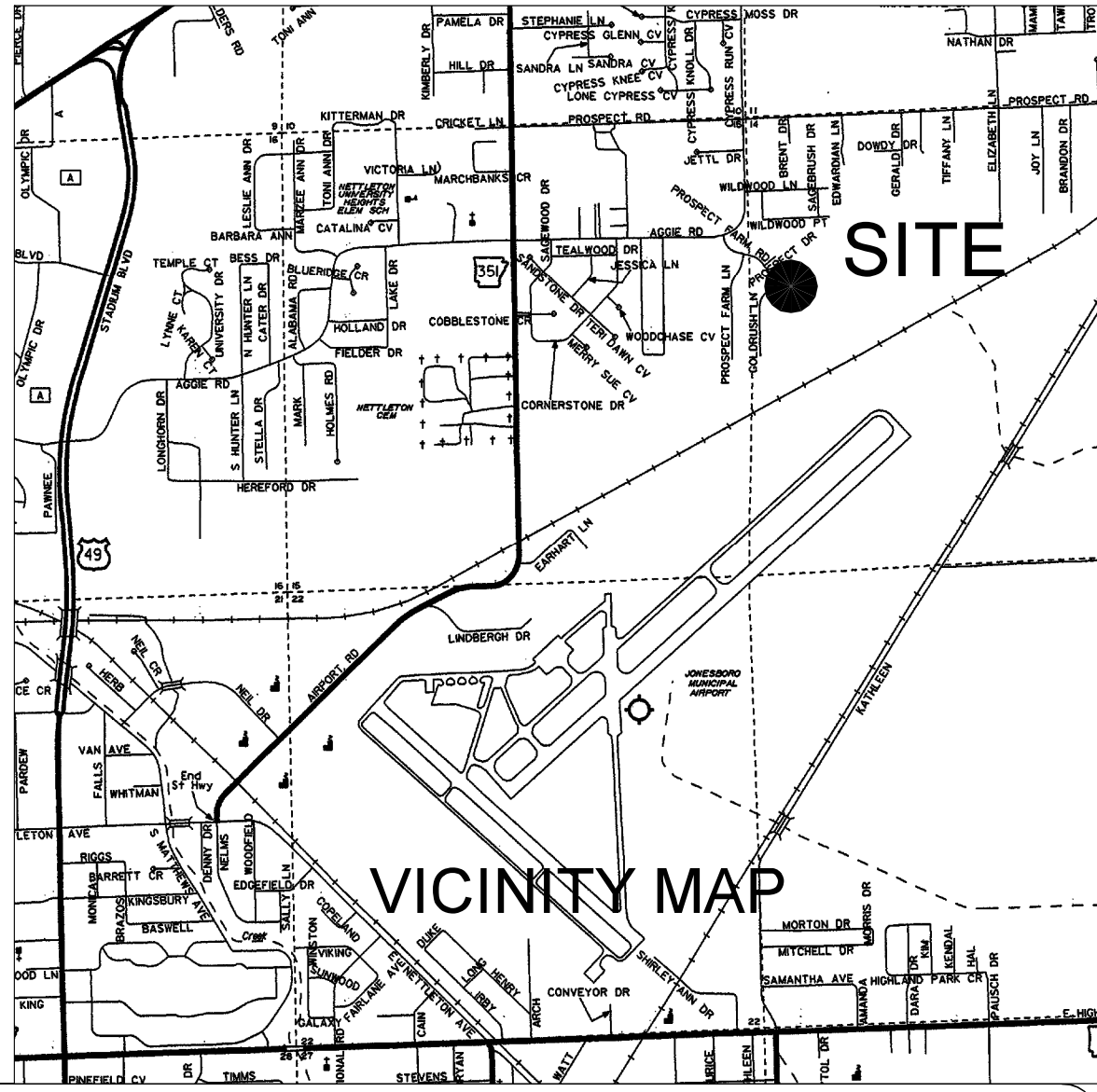
DESCRIPTION:

A PART OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 14 NORTH, RANGE 4 EAST, CRAIGHEAD COUNTY, ARKANSAS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the N 1/16 corner center of said Section 14 (Nw corner of the Southwest Quarter of the Northeast Quarter of said Section 14); thence South 89°16'14" West 220.14 feet to the point of beginning proper; thence South 00°43'46" East 329.10 feet; thence North 89°16'14" East 60.00 feet; thence South 27°12'48" East 12.38 feet; thence South 62°47'12" West 1062.83 feet; thence North 48°26'23" West 144.79 feet; thence North 53°23'23" West 96.59 feet; thence South 89°15'52" West 570.60 feet; thence North 74°19'51" West 136.85 feet; thence South 25°18'24" West 100.97 feet; thence North 62°51'54" West 60.03 feet; thence with a curve turning to the right with an arc length of 40.68', with a radius of 25.04', with a chord bearing of S 75°49'02" W, with a chord length of 36.35'; thence with a compound curve turning to the right with an arc length of 94.22', with a radius of 470.08', with a chord bearing of N 51°52'40" W, with a chord length of 94.06'; thence North 43°54'15" East 130.08 feet; thence with a curve turning to the right with an arc length of 55.12', with a radius of 339.96', with a chord bearing of N 41°28'24" W, with a chord length of 55.06'; thence North 36°49'24" West 103.49 feet; thence North 53°11'50" East 120.00 feet; thence North 73°00'08" East 50.00 feet; thence North 89°16'14" East 1358.08 feet; thence North 00°43'46" West 329.10 feet; thence North 89°16'14" East 480.00 feet to the point of beginning proper, having an area of 754291.78 square feet, 17.32 acres more or less and being subject to all public and private roads and easements.

OWNER CERTIFICATION:

WE HEREBY CERTIFY THAT WE THE OWNERS OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT WE ADOPT THE PLAN OF THE SUBDIVISION AND DEDICATED PERPETUAL USE OF ALL STREETS AND EASEMENTS AS NOTED.



HERBERT C. HIME

REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ARKANSAS

NO. 1142

PLS # 1142

CERTIFICATE OF APPROVAL

H & S HIME

PROFESSIONAL SURVEYING SERVICES

NO. 1459

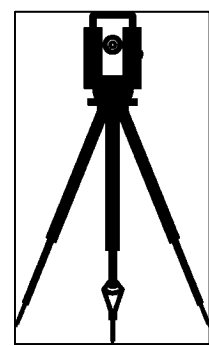
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DATE: 10-28-2019

REV:

DRAWN BY: H. HIME

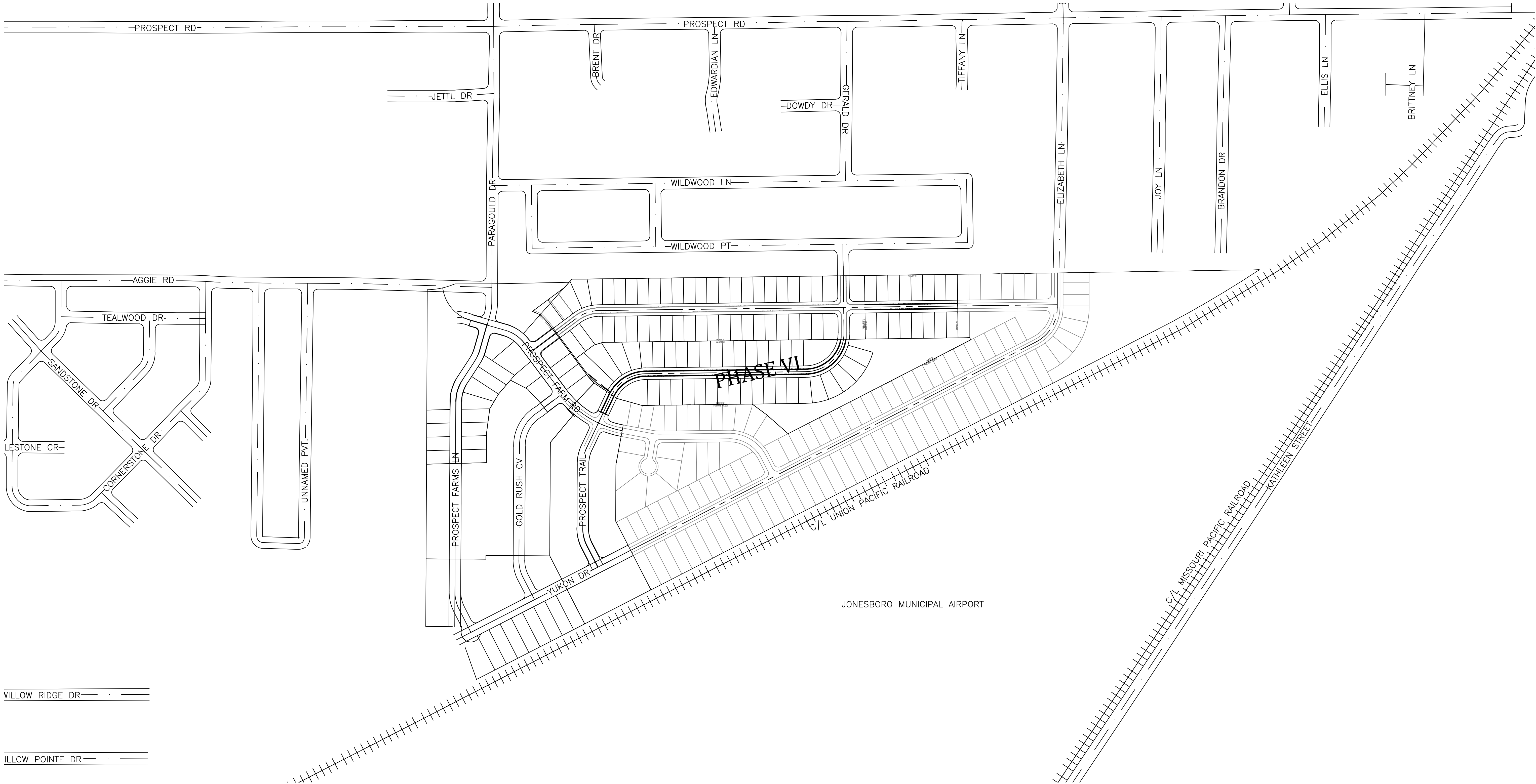
PROSPECT FARMS SUBDIVISION
PHASE VI, JONESBORO, ARKANSAS
PRELIMINARY PLAT NOT FOR RECORD



H&S HIME PROFESSIONAL
SURVEYING SERVICES

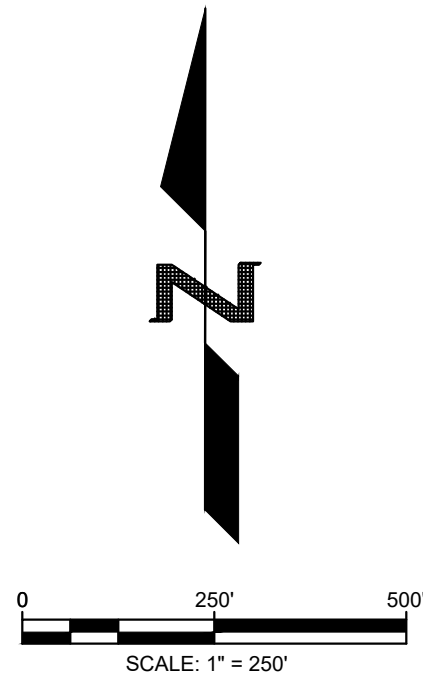
2619 CARAWAY RD. SUITE "D"
JONESBORO, ARKANSAS 72401

PHONE: 870-972-1288
E-MAIL: hshime_butch@yahoo.com



WILLOW RIDGE DR

WILLOW POINTE DR



PROSPECT FARMS PHASE VI

KEY MAP



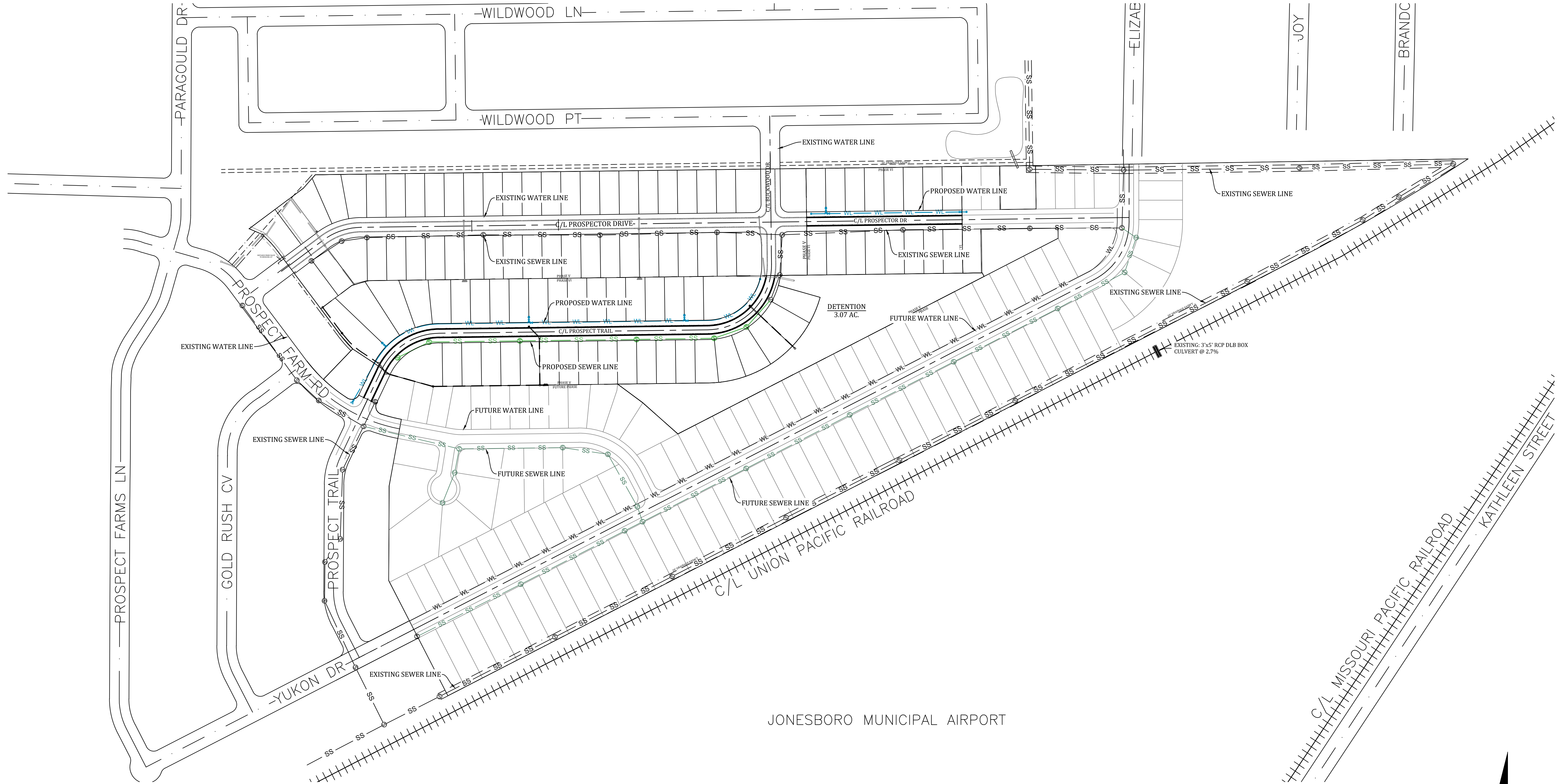
REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=250'

SHEET NUMBER:
OV-1

MARK MORRIS P.E.
3221 SHELBY DRIVE
JONESBORO, AR 72404
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MARK MORRIS



LEGEND

CURB

SIDEWALK

CORRIDOR CROSS SECTION LINE

WL

WATER LINE

WM

WATER METER

FH

FIRE HYDRANT

BOA

BLOW-OFF ASSEMBLY

GV

GATE VALVE

SDI

STORM DRAIN INLET

SDP

STORM DRAIN PIPE

SS

SANITARY SEWER

S

SEWER MANHOLE

WYE

SEWER WYE

S.O.

SEWER STUB- OUT

EX.WYE

EX. SEWER WYE

EX.S.O.

EX. SEWER STUB- OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

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MARK MORRIS

PROSPECT FARMS PHASE VI

OVERALL UTILITY

STATE OF ARKANSAS

REGISTERED PROFESSIONAL ENGINEER

MARK B. MORRIS

No. 13212

REVISIONS

DATE	BY	DESCRIPTION

DRAWING INFO.

DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=150'

SHEET NUMBER:

0V-2

Z:\Morris Real Estate Holdings, LLC\Projects\Prospect Farms\Engineering\Plans\PHASE VI\PHASE VI.dwg, 10/30/2019 4:27:59 PM



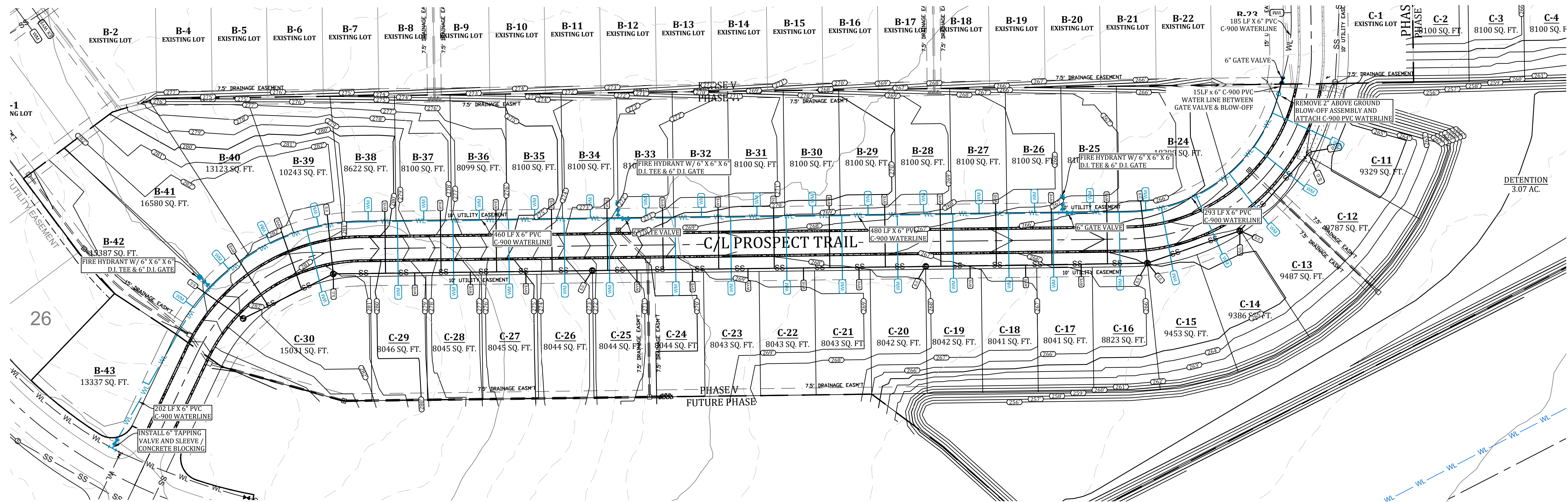
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DRAWING INFO.	
DRAWN BY:	GMD
DATE:	10/30/2019
SCALE:	1"=60'
SHEET NUMBER:	
WT-1	

LEGEND	
	CURB
	SIDEWALK
	CORRIDOR CROSS SECTION LINE
	WATER LINE
	WATER METER
	FIRE HYDRANT
	BLOW-OFF ASSEMBLY
	GATE VALVE
	STORM DRAIN INLET
	STORM DRAIN PIPE
	SANITARY SEWER
	SEWER MANHOLE
	SEWER WYE
	SEWER STUB-OUT
	EX. SEWER WYE
	EX. SEWER STUB-OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET

TOTAL WATERLINE QUANTITIES:
1915LF - 6" C-900 PVC WATERLINE
28- 3/4" SHORT SERVICES
28- 3/4" LONG SERVICES

PRESSURES:
STATIC PRESSURE = 87 PSI
RESIDUAL PRESSURE = 77 PSI



WATER AND ELECTRIC NOTES:

- CONTRACTOR SHALL PROVIDE NECESSARY ELECTRICAL CONDUIT & PERMANENT MARKERS W/ GRAY PVC SCH 40 (2") & PVC SCH 40 (4") & 36" RAD ELBOWS FOR RISERS AND A STRING & MOUSE BLOWN IN THE CONDUIT. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PLAN FROM C&L AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY C&L. CONTRACTOR SHALL OBTAIN C&L SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE 36" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY C&L & INSTALL AS REQUIRED BY C&L.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYES, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS A STREET AND BACKFILL THEM WITH SANDY (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.
- A 12 GA SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED @ THE BEGINNING, THE END, AND 750' INTERVALS IN BETWEEN WHERE THE TRACER WIRE IS INSTALLED. THE TRACER WIRE SHALL BE INSTALLED ABOVE THE WATER LINE AND CONNECTED TO THE PERMANENT MARKERS IN A MANNER THAT WILL ENSURE A CONTINUOUS CONNECTION OF THE TRACER LINE.
- CONTRACTOR SHALL CALL ARK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.
- C&L SHALL PROVIDE FIRE HYDRANT, 6" D.I. GATE VALVE, VALVE BOX W/ LID, AND 6" BY LINE SIZE D.I. TEE. CONTRACTOR SHALL PROVIDE LABOR FOR INSTALLATION AND CONCRETE BLOCKING. (SEE DETAIL SHEET)
- CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAIN, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED GRADE HAS BEEN OBTAINED.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PLANS TO INSURE THE WATER LINE DEPTH OF INSTALLATION IS BELOW THE PROPOSED STORM DRAIN ELEVATION. CONTRACTOR WILL BE REQUIRED TO COME BACK AND LOWER WATER LINE (AT THE CONTRACTOR'S EXPENSE) IF IT INTERFERES WITH THE STORM DRAIN INSTALLATION.
- IF CONTRACTOR CAN NOT INSURE WATER LINE INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL POSTPONE WATER LINE INSTALLATION UNTIL STORM DRAIN HAS BEEN INSTALLED.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH LIEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.
- CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER TRENCHES 1' TO 2' TO ALLOW FOR SETTLING IN AREAS OUT OF THE STREET.
- CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- CONTRACTOR SHALL OBTAIN A CURRENT SET OF C&L SPECIFICATIONS AND REVIEW THEM. C&L SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE C&L SPECIFICATIONS TO INCLUDE ITEMS NOT SHOWN OR REFERRED TO IN THIS SET OF PLANS. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- CONTRACTOR SHALL PLACE 8 MIL POLYVYRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.
- ALL WATER LINES 12" DIAMETER SHALL BE AWMA C-900 PRESSURE CLASS 150 OR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SDR 21 CLASS 200 (ASTM 2241). ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.
- WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL
- MAINTAIN 36" MINIMUM HORIZONTAL SEPARATION TO PREVENT FREEZING. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINE.
- CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO C&L AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD W/ CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO C&L PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
- DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE (ARKANSAS WORKERS COMPENSATION, \$1,000,000.00 MINIMUM GENERAL LIABILITY, AND \$1,000,000.00 MINIMUM AUTO LIABILITY). CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.
- FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS, AND SURPLUS MATERIALS.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. C&L WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND C&L ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.
- IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY C&L WITHIN 360 DAYS AFTER MANHOLE TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
- INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER MAINS. OBSTRUCTING DRAINAGE PIPES SHALL BE REMOVED IF IN SOUND, UNDEMANAGED CONDITION, THEY MAY BE CLEANED AND RE-INSTALLED. IF UNSOUND OR DAMAGED, THEY SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL. WHEN THE ANGLE BETWEEN CENTER LINES OF A DRAINAGE PIPE AND WATER MAIN WILL PERMIT, THE WATER MAIN MAY BE INSTALLED BY TUNNELING. PROVIDED THE DRAINAGE PIPE IS NOT DAMAGED AND THE WATER MAIN IS LAID PROPERLY, AS AN ALTERNATIVE IN THE CASE OF CORROGATED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE, AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.
- C&L ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
- REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWMA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT C&L'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE C&L INSPECTOR WILL WITNESS ALL REPAIRS.
- WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON.
- TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.
- LEAKAGE TESTS SHALL BE MADE PRIOR TO STERILIZATION OPERATIONS. THE TEST PERIOD SHALL BE TWO (2) HOURS. TEST PRESSURE SHALL BE 1.5 TIMES THE CALCULATED WORKING PRESSURE OF THE MAIN, BUT NOT LESS THAN 100 PSI. THE LINE WILL NOT BE ACCEPTED UNLESS OR UNTIL THE TOTAL IS LESS THAN THAT SPECIFIED IN AWMA C-600-93 FOR DUCTILE IRON AND AWMA C-605-94 FOR PVC PIPE.
- ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWMA C-651-94. ANY NEW CONSTRUCTION OR REPAIRED WATER MAIN MUST BE THOROUGHLY CLEANED (FLUSHED), DISINFECTED, AND TESTED FOR BACTERIOLOGICAL QUALITY BEFORE IT CAN BE PLACED IN SERVICE. FOLLOWING A CONTACT PERIOD OF NOT LESS THAN 24 HOURS, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM, AND THE SYSTEM FILLED WITH WATER OF NORMAL CHLORINE CONTENT. SAMPLES OF WATER THEN SHALL BE TAKEN ON TWO CONSECUTIVE DAYS FROM THE LINES AND DELIVERED TO THE C&L - LABORATORY FOR BACTERIAL ANALYSIS. THIS PROCESS SHALL BE CONTINUED UNTIL THE SAMPLES SHOW THE WATER IS SAFE FOR DOMESTIC REQUIREMENTS. FLUSHING DEVICES SHOULD BE SIZED TO PROVIDE FLOWS WHICH WILL GIVE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND IN THE WATER MAIN BEING FLUSHED. NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER. IF THE LINE HAS SET FOR A ONE MONTH OR LONGER BEFORE FINAL ACCEPTANCE, IT SHALL BE RESTERILIZED, FLUSHED, AND BACTERIAL TESTED.
- THE DEVELOPER AND ENGINEER ARE RESPONSIBLE FOR METER BOX LOCATIONS. ANY CONFLICTS THAT REQUIRE PLASTIC BOX(S) TO BE CHANGED OUT TO CONCRETE BOX(S) WILL BE AT THE EXPENSE OF THE DEVELOPER AND/OR CONTRACTOR.
- IF UNSAFE PRACTICES ARE DISCOVERED BY C&L DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, C&L WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES C&L FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY PRACTICES.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED DAILY BY THE ENGINEER OF RECORD FOR PROPER MATERIALS, WORKMANSHIP, AND INSTALLATION IN ACCORDANCE WITH THE APPROVED ARKANSAS DEPARTMENT OF HEALTH AND CITY WATER AND LIGHT APPROVED PLANS.

OPERATING NOTE:
THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF 10' SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINE OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWER SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN A WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST 10' EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18" OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENTS. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF 3' SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITARY NATURE (GAS, ELECTRIC, ETC.), EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.

TRENCH SETTLEMENT NOTE:
CITY WATER & LIGHT IS NOT RESPONSIBLE FOR ANY SETTLEMENT OVER WATER & SEWER TRENCHES THAT OCCURS BEFORE OR AFTER THE WARRANTY PERIOD.

WATER METER NOTE:
WATER METERS ARE SHOWN PICTORIALY ONLY. WATER METERS SHALL BE LOCATED AT THE RIGHT OF WAY APPROXIMATELY AT THE CENTER OF THE LOT. THERE SHOULD BE A MINIMUM OF 10 FEET SEPARATION BETWEEN WATER METERS AND SANITARY SEWER SERVICES.

WATER CONNECTION NOTE:
CONTRACTOR SHALL NOT INITIATE TIE IN CONNECTION TO EXISTING WATER MAIN AFTER 3 P.M. DURING NORMAL WORKING DAYS, OR ON FRIDAY AFTER 12 P.M., UNLESS APPROVED BY CITY WATER & LIGHT ENGINEERING DEPT. CONTRACTOR SHALL NOTIFY C&L INSPECTOR OF TENTATIVE TIME FRAME FOR CONNECTION 24 HOURS PRIOR TO ACTIVITY.

ALL SEWER WYES SHALL BE A MINIMUM OF 10' FOOT AWAY FROM PROPERTY CORNERS.

ELECTRICAL CONDUIT NOTE:
ALL ELECTRICAL CONDUIT SHALL HAVE A MINIMUM 48" OF COVER BELOW FINISHED GRADE.

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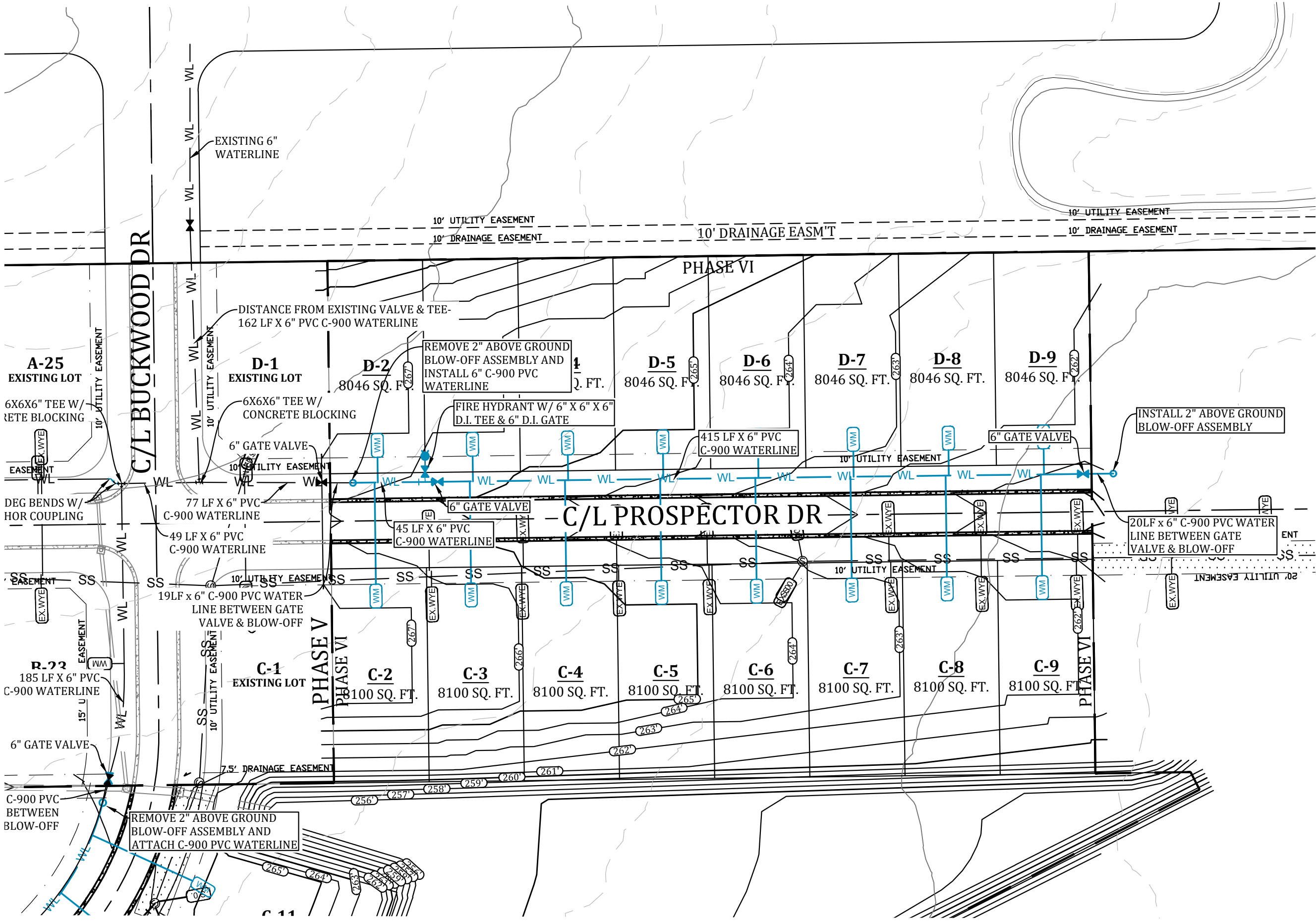
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LEGEND			
	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT
NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET			

TOTAL WATERLINE QUANTITIES:
1915LF - 8" C-900 PVC WATERLINE
28- 3/4" SHORT SERVICES
28- 3/4" LONG SERVICES

PRESSURES:
STATIC PRESSURE = 87 PSI
RESIDUAL PRESSURE = 77 PSI



WATER AND ELECTRIC NOTES:

- CONTRACTOR SHALL PROVIDE NECESSARY ELECTRICAL CONDUIT & PERMANENT MARKERS W/ GRAY PVC SCH 40 (2") & PVC SCH 40 (4") & 36" RAD ELBOWS FOR RISERS AND A STRING & MOUSE BLOWN IN THE CONDUIT. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PLAN FROM CIVL AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY CIVL. CONTRACTOR SHALL OBTAIN CIVL SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE 36" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY CIVL & INSTALL AS REQUIRED BY CIVL.
- CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYES, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS A STREET AND BACKFILL THEM WITH SANDY (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.
- A 12 GA SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED @ THE BEGINNING, THE END, AND 750' INTERVALS IN BETWEEN WHERE THE TRACER WIRE IS INSTALLED. THE TRACER WIRE SHALL BE INSTALLED ABOVE THE WATER LINE AND CONNECTED TO THE PERMANENT MARKERS IN A MANNER THAT WILL INSURE A CONTINUOUS CONNECTION OF THE TRACER LINE.
- CONTRACTOR SHALL CALL ARK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.
- CIVL SHALL PROVIDE FIRE HYDRANT, 6" D.I. GATE VALVE, VALVE BOX W/ LID, AND 6" BY LINE SIZE D.I. TEE. CONTRACTOR SHALL PROVIDE LABOR FOR INSTALLATION AND CONCRETE BLOCKING. (SEE DETAIL SHEET)
- CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAIN, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED GRADE HAS BEEN OBTAINED.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PLANS TO INSURE THE WATER LINE DEPTH OF INSTALLATION IS BELOW THE PROPOSED STORM DRAIN ELEVATION. CONTRACTOR WILL BE REQUIRED TO COME BACK AND LOWER WATER LINE (AT THE CONTRACTOR'S EXPENSE) IF IT INTERFERES WITH THE STORM DRAIN INSTALLATION.
- IF CONTRACTOR CAN NOT INSURE WATER LINE INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL POSTPONE WATER LINE INSTALLATION UNTIL STORM DRAIN HAS BEEN INSTALLED.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH LIEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS, AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.
- CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER TRENCHES 1' TO 2' TO ALLOW FOR SETTLING IN AREAS OUT OF THE STREET.
- CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.
- CONTRACTOR SHALL OBTAIN A CURRENT SET OF CIVL SPECIFICATIONS AND REVIEW THEM. CIVL SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE CIVL SPECIFICATIONS TO INCLUDE ITEMS NOT SHOWN OR REFERRED TO IN THIS SET OF PLANS. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.
- CONTRACTOR SHALL PLACE 8 MIL POLYWRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.
- ALL WATER LINES 12" DIAMETER SHALL BE AWMA C-900 PRESSURE CLASS 150 DR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SDR 21 CLASS 200 (ASTM 2241). ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.
- WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL MAINTAIN 36" MINIMUM HORIZONTAL SEPARATION TO PREVENT FREEZING. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINE.
- CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO CIVL, AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD W/ CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO CIVL PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.
- DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE (ARKANSAS WORKERS COMPENSATION, \$1,000,000.00 MINIMUM GENERAL LIABILITY, AND \$1,000,000.00 MINIMUM AUTO LIABILITY) CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.
- FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS, AND SURPLUS MATERIALS.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. CIVL WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND CIVL ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.
- IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CIVL WITHIN 360 DAYS AFTER MANHOLE TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.
- INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER MAINS.
- OBSTRUCTING DRAINAGE PIPES SHALL BE REMOVED. IF IN SOUND, UNDAMAGED CONDITION, THEY MAY BE CLEANED AND RE-INSTALLED. IF UNSOUND OR DAMAGED, THEY SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL. WHEN THE ANGLE BETWEEN CENTER LINES OF A DRAINAGE PIPE AND WATER MAIN WILL PERMIT, THE WATER MAIN MAY BE INSTALLED BY TUNNELING. PROVIDED THE DRAINAGE PIPE IS NOT DAMAGED AND THE WATER MAIN IS LAID PROPERLY. AS AN ALTERNATIVE IN THE CASE OF CORROGATED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE, AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.
- CIVIL ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5' PARALLEL WITH EDGE OF PAVED STREET SURFACE.
- REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWMA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT CIVL'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE CIVL INSPECTOR WILL WITNESS ALL REPAIRS.
- WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON.
- TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.
- LEAKAGE TESTS SHALL BE MADE PRIOR TO STERILIZATION OPERATIONS. THE TEST PERIOD SHALL BE TWO (2) HOURS. TEST PRESSURE SHALL BE 1.5 TIMES THE CALCULATED WORKING PRESSURE OF THE MAIN, BUT NOT LESS THAN 100 PSI. THE LINE WILL NOT BE ACCEPTED UNLESS OR UNTIL THE TOTAL IS LESS THAN THAT SPECIFIED IN AWMA C-600-93 FOR DUCTILE IRON AND AWMA C-605-94 FOR PVC PIPE.
- ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWMA C-651-94. ANY NEW CONSTRUCTION OR REPAIRED WATER MAIN MUST BE THOROUGHLY CLEANED (FLUSHED), DISINFECTED, AND TESTED FOR BACTERIOLOGICAL QUALITY BEFORE IT CAN BE PLACED IN SERVICE. FOLLOWING A CONTACT PERIOD OF NOT LESS THAN 24 HOURS, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM, AND THE SYSTEM FILLED WITH WATER OF NORMAL CHLORINE CONTENT. SAMPLES OF WATER THEN SHALL BE TAKEN ON TWO CONSECUTIVE DAYS FROM THE LINES AND DELIVERED TO THE CIVL - LABORATORY FOR BACTERIAL ANALYSIS. THIS PROCESS SHALL BE CONTINUED UNTIL THE SAMPLES SHOW THE WATER IS SAFE FOR DOMESTIC REQUIREMENTS. FLUSHING DEVICES SHOULD BE SIZED TO PROVIDE FLOWS WHICH WILL GIVE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND IN THE WATER MAIN BEING FLUSHED. NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER. IF THE LINE HAS SET FOR A ONE MONTH OR LONGER BEFORE FINAL ACCEPTANCE, IT SHALL BE RESTERILIZED, FLUSHED, AND BACTERIAL TESTED.
- THE DEVELOPER AND ENGINEER ARE RESPONSIBLE FOR METER BOX LOCATIONS. ANY CONFLICTS THAT REQUIRE PLASTIC BOX(S) TO BE CHANGED OUT TO CONCRETE BOX(S) WILL BE AT THE EXPENSE OF THE DEVELOPER AND/OR CONTRACTOR.
- IF UNSAFE PRACTICES ARE DISCOVERED BY CIVL DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, CIVL WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES CIVL FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY PRACTICES.
- DURING CONSTRUCTION, WORK SHALL BE INSPECTED DAILY BY THE ENGINEER OF RECORD FOR PROPER MATERIALS, WORKMANSHIP, AND INSTALLATION IN ACCORDANCE WITH THE APPROVED ARKANSAS DEPARTMENT OF HEALTH AND CITY WATER AND LIGHT APPROVED PLANS.

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ALL SEWER WYES SHALL BE A MINIMUM OF 10' FOOT AWAY FROM PROPERTY CORNERS.

ELECTRICAL CONDUIT NOTE:

ALL ELECTRICAL CONDUIT SHALL HAVE A MINIMUM 48" OF COVER BELOW FINISHED GRADE.

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PROSPECT FARMS PHASE VI

WATER PLAN (PROSPECTOR DR)

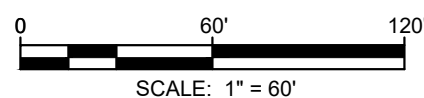


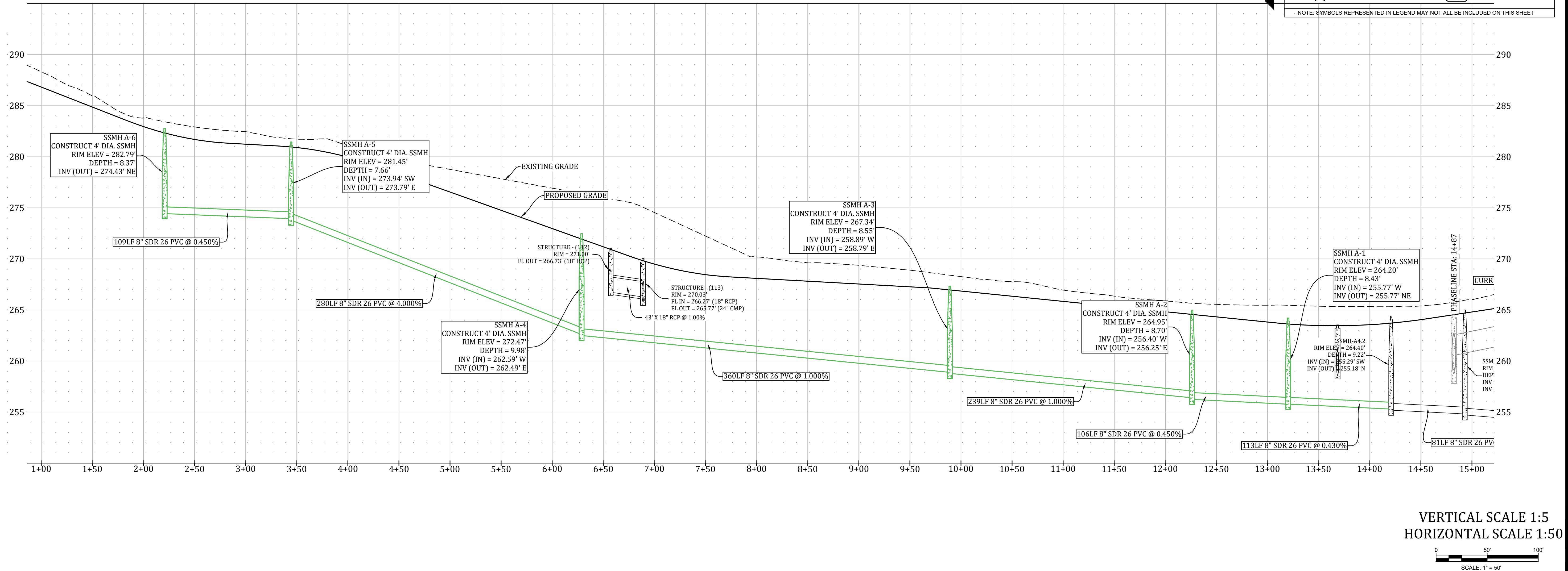
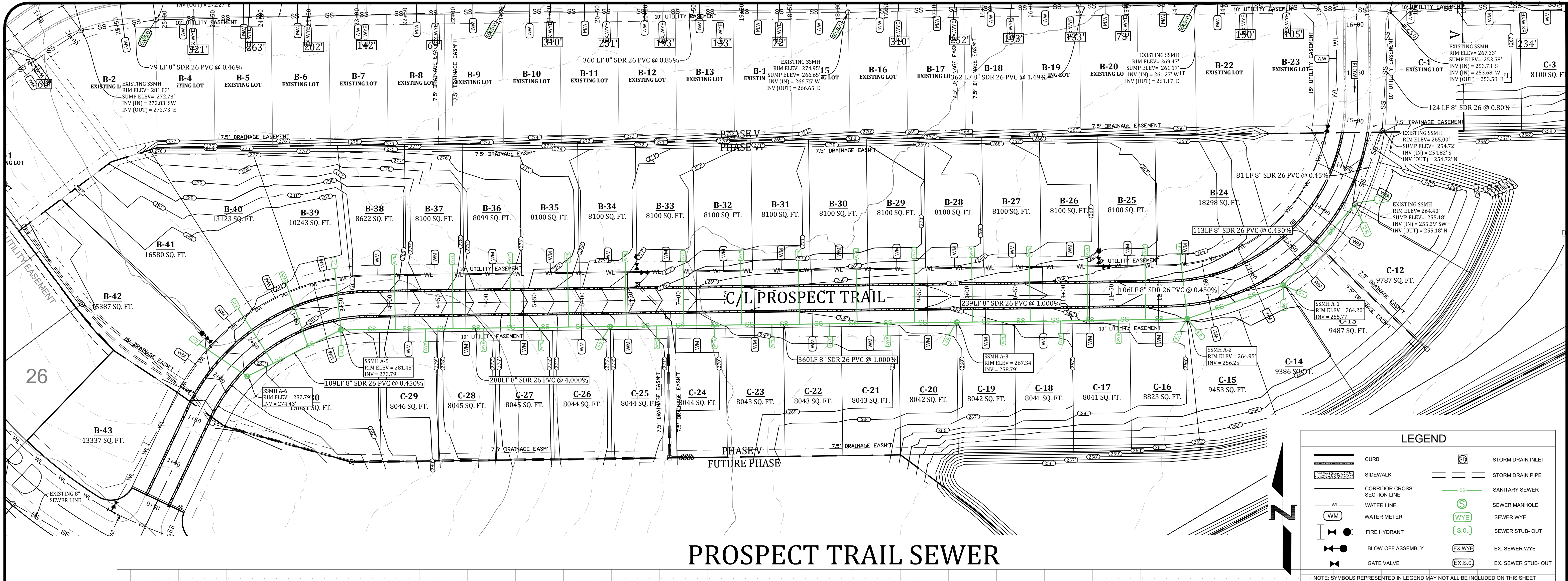
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DATE	BY DESCRIPTION

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SCALE:	1"=60'

SHEET NUMBER:

WT-2





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PROSPECT FARMS PHASE VI
SEWER PLAN & PROFILE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13312
MARK B. MORRIS

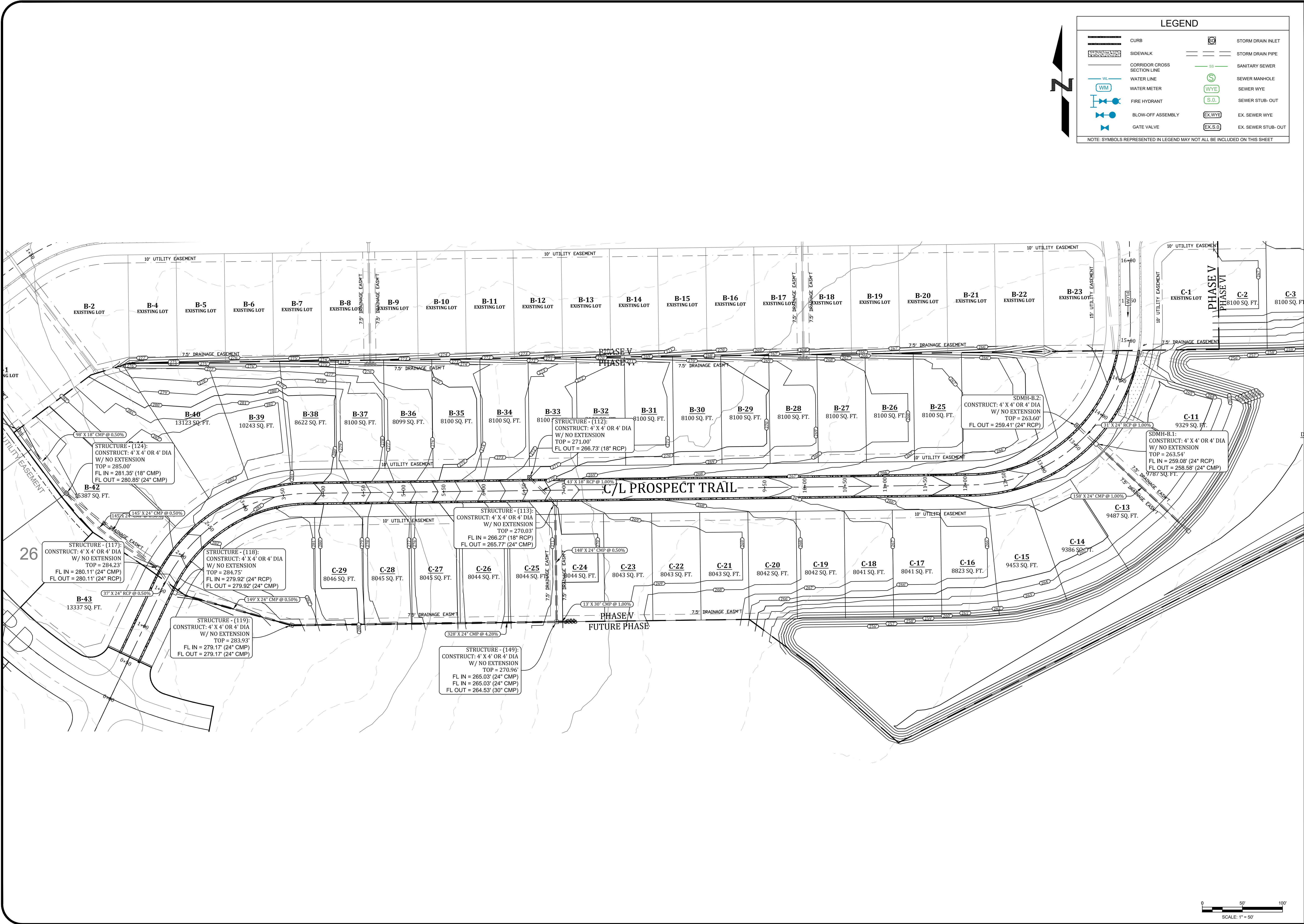
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SHEET NUMBER:
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PROSPECT FARMS PHASE VI

GRADING & DRAINAGE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13212
MARK B. MORRIS

REVISIONS

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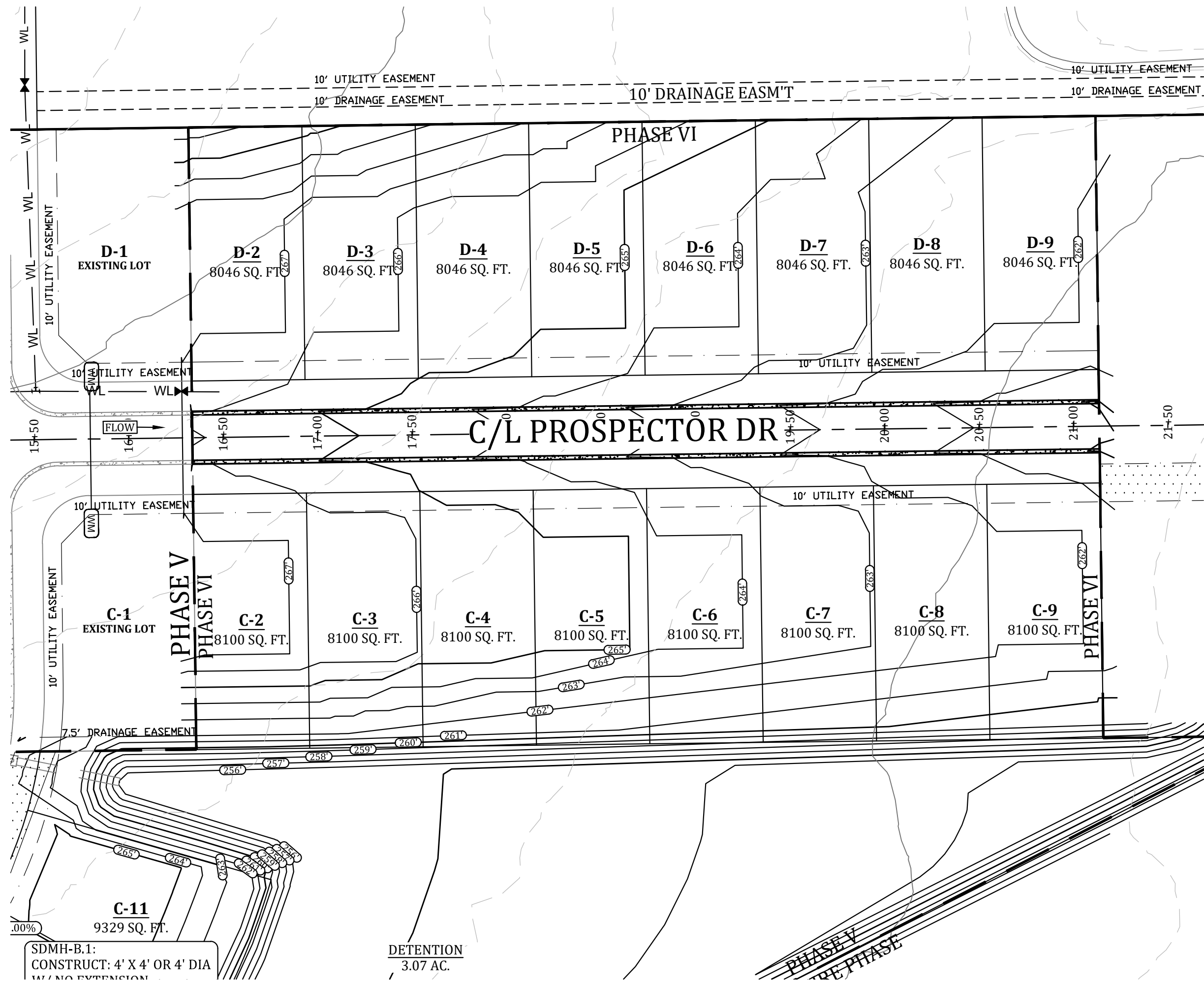
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CURB

SIDEWALK

CORRIDOR CROSS SECTION LINE

WATER LINE

WATER METER

FIRE HYDRANT

BLOW-OFF ASSEMBLY

GATE VALVE

STORM DRAIN INLET

STORM DRAIN PIPE

SANITARY SEWER

SEWER MANHOLE

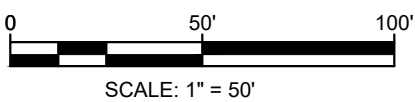
SEWER WYE

SEWER STUB- OUT

EX. SEWER WYE

EX. SEWER STUB- OUT

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET



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STATE OF ARKANSAS
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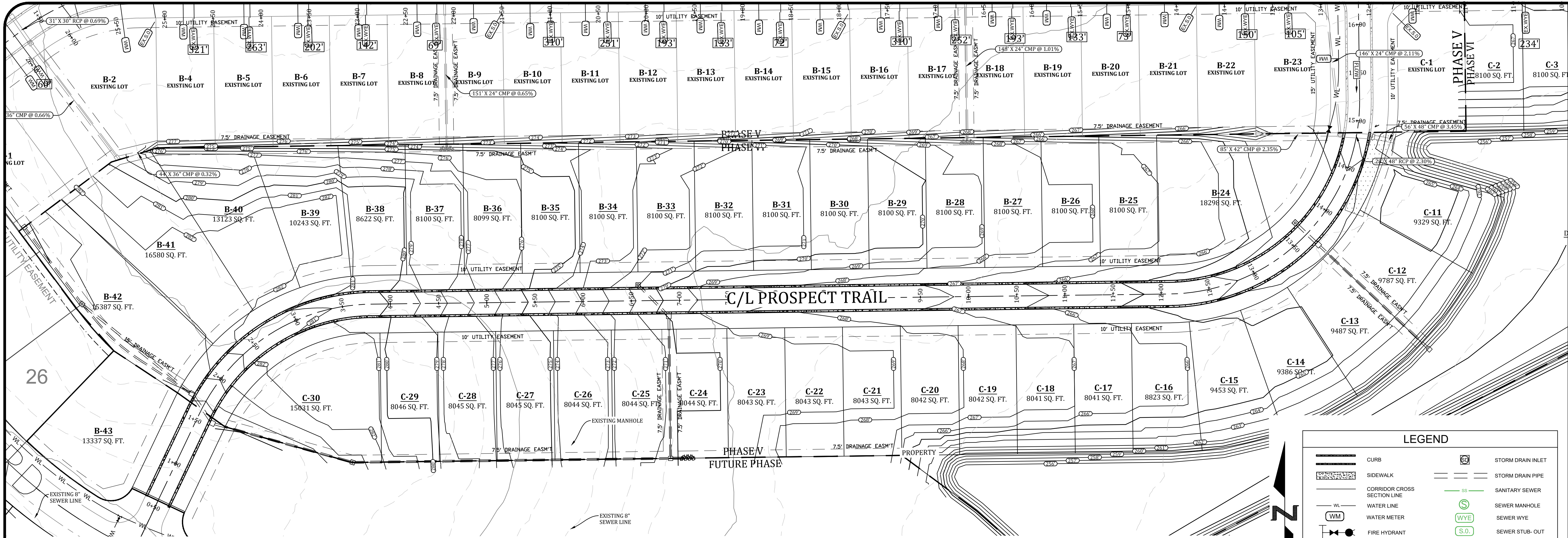
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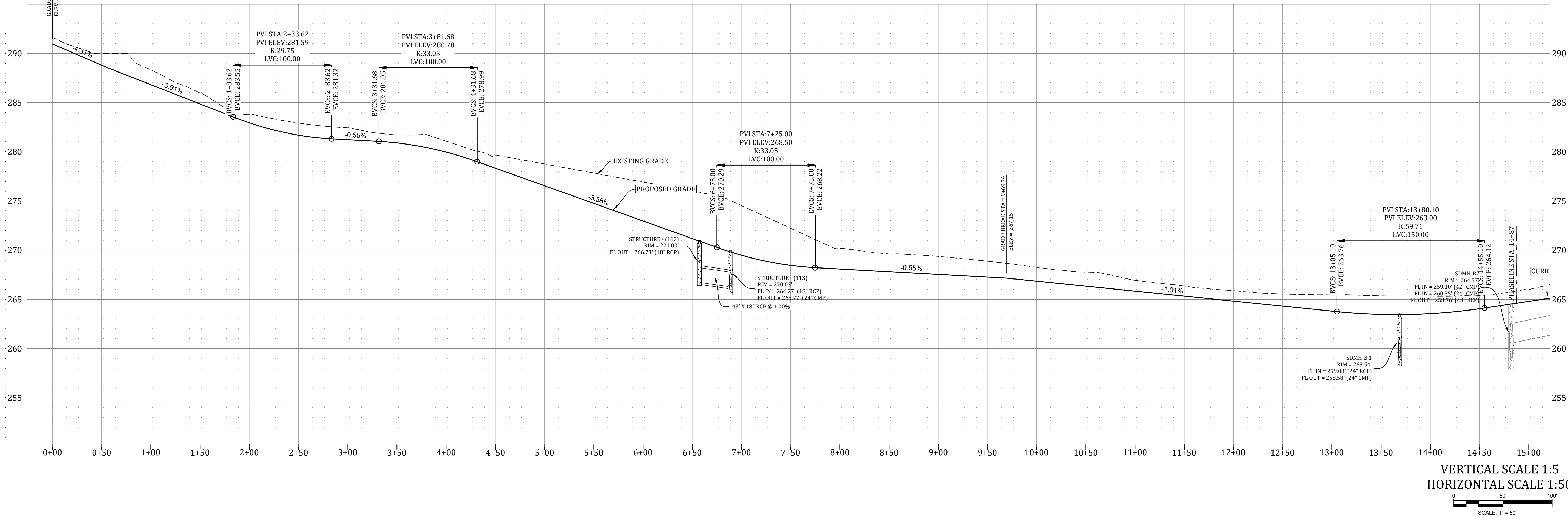


PROSPECT TRAIL

LEGEND

	CURB		STORM DRAIN INLET
	SIDEWALK		STORM DRAIN PIPE
	CORRIDOR CROSS SECTION LINE		SANITARY SEWER
	WATER LINE		SEWER MANHOLE
	WATER METER		SEWER WYE
	FIRE HYDRANT		SEWER STUB-OUT
	BLOW-OFF ASSEMBLY		EX. SEWER WYE
	GATE VALVE		EX. SEWER STUB-OUT

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MARK MORRIS

PROSPECT FARMS PHASE VI

STREET PLAN & PROFILE

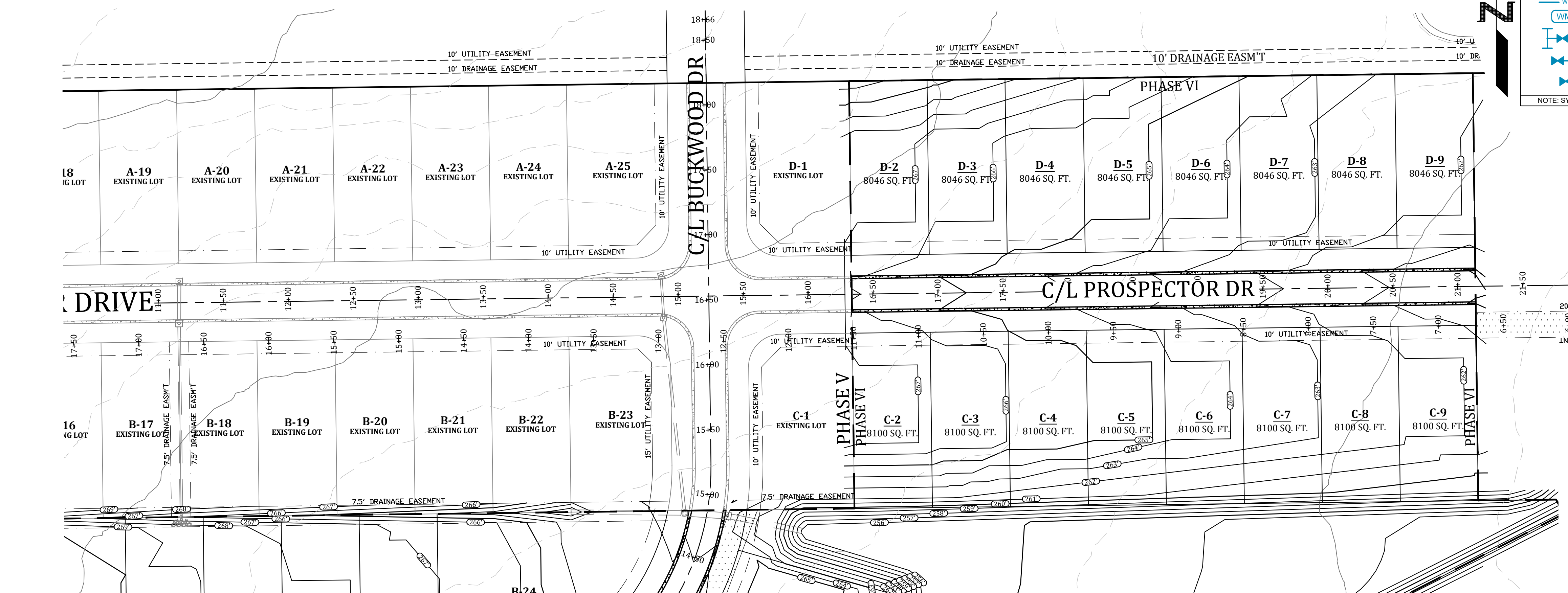
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DATE	BY	DESCRIPTION

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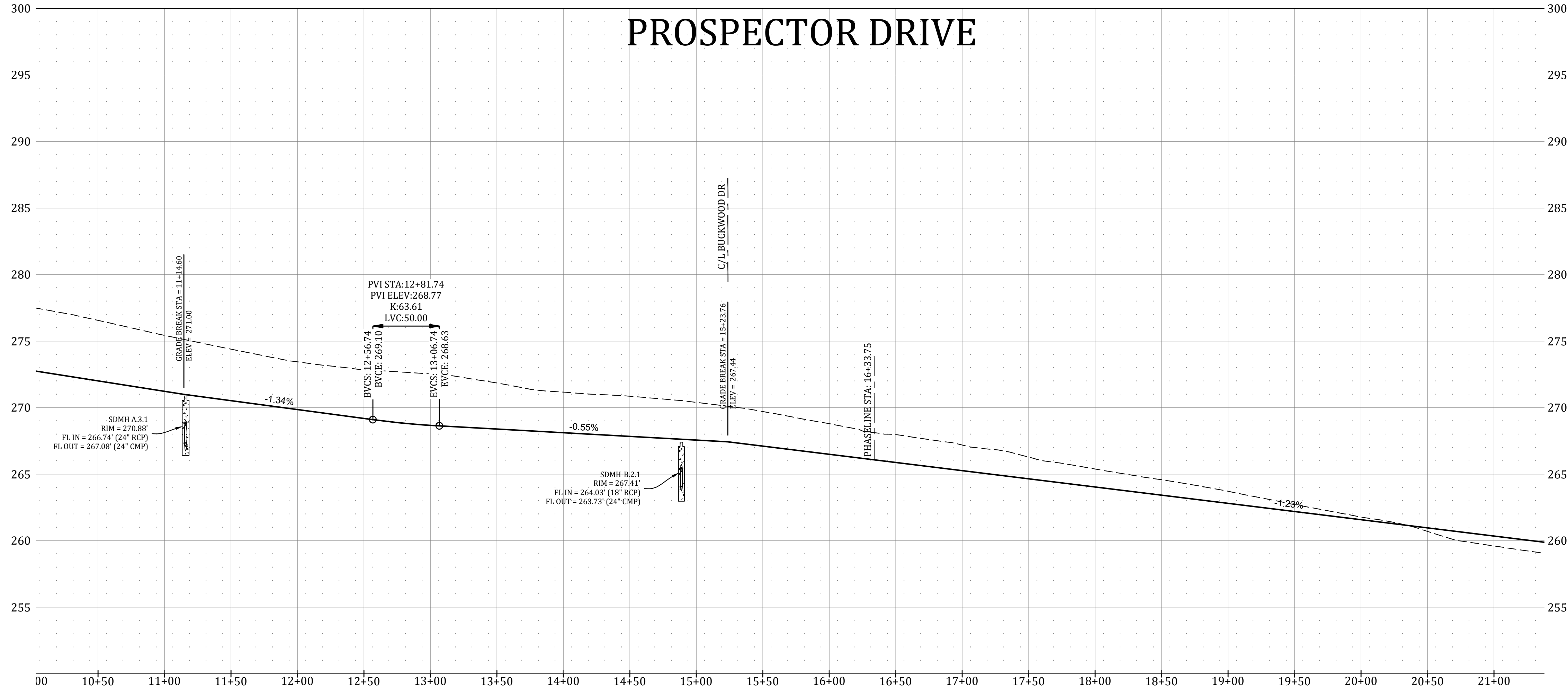
LEGEND

CURB

SIDEWALK

CORRIDOR CROSS SECTION LINE

NOTE: SYMBOLS REPRESENTED IN LEGEND MAY NOT ALL BE INCLUDED ON THIS SHEET



VERTICAL SCALE 1:5
HORIZONTAL SCALE 1:50

0 50 100
SCALE: 1" = 50'

PROSPECT FARMS PHASE VI
STREET PLAN & PROFILE



REVISIONS		
DATE	BY	DESCRIPTION
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MARK MORRIS

WITH ANCHOR COUPLING

MUST BE MUELLER CO. TYPE ONLY

SEE SPECS. FOR PUMPER NOZZLE REQUIREMENTS

PLACE FIRE HYDRANT AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGR.

FIRE HYDRANT TO BE INSTALLED IN TRUE PLUMB POSITION. (SEE PROPOSAL FOR REQUIRED HEIGHT)

NATURAL OR FINAL GROUND

6" D.I. GATE VALVE

VARY VALVE BOX LENGTH ADJUST AS REQUIRED MIN. COVER-3'-6"

COVER WITH 8 MILL PLASTIC

CRUST CLEAN ROCK

KEEP THRUST BLOCK CONC CLEAR OF DRAIN

2 CU. FT. OF 1-1/4" CLEAN CRUSHED ROCK ENVELOPING DRAIN

4" CAP BLOCK

ANCHOR COUPLING

ANCHOR COUPLING OR M.J. ANCHOR TEE OR TAPPING SLEEVE

2 CU. FT. OF 1-1/4" CLEAN CRUSHED ROCK ENVELOPING DRAIN

3000 PSI CONCRETE

WRAP ALL FITTINGS & PIPE WITH 8 MILL PLASTIC NEAR CONCRETE BLOCKING

NOTES:

1. PROVIDE TWO (2) MECHANICAL JOINT ANCHORING COUPLINGS
2. CWL WILL PROVIDE FIRE HYDRANTS, ANCHORING COUPLINGS, VALVES, VALVE BOXES AND TEES WITHIN CITY LIMITS.

18" FOR 4" PIPE
24" * 6&8"
28" * 10" *
30" * 12" *
33" * 15" *
36" * 18" *

MAX. TRENCH WIDTH

OUTSIDE STREET PAVEMENT

REQUIRED WITHIN HWY. & R.R. RW AND AT STREET PAVEMENT CROSSINGS AND ABOVE LOCK JOINT PIPE.

WITHIN HWY R/W OR UNDER STRUCTURES OR STREET PAVEMENT SELECT GRANULAR BACKFILL MAT'L (W/P I < 10) SHALL BE COMPACTED IN 6" LAYERS W/MECHANICAL TAMP. FULL DEPTH. INCLUDE IN COST OF PIPE.

REQUIRED FOR FULL LENGTH OF PIPE LINE

SELECT BACKFILL MAT'L COMPACTED IN 6" LAYERS W/MECHANICAL TAMP. INCLUDE IN COST OF PIPE.

1-1/4" MAX SIZE WASHED GRAVEL BED UP TO SPRING LINE. CLEAN SAND MAY BE USED AT CONTRACTOR'S OPTION.

FOR ALL OTHER AREAS BACKFILL MAY BE PLACED BY ANY METHOD THAT WILL NOT DISTURB THE PIPE.

IN RURAL AREAS AND/OR OUTSIDE HWY. & R.R. RIGHT OF WAY.

4" MIN OR 1/4 I.D. OF PIPE WHICH EVER IS GREATER

REQUIRED FOR FULL LENGTH OF PIPE LINE.

NOTE: BEDDING REQ'D ONLY WHEN SOFT SOILS ARE ENCOUNTERED OR IS DIRECTED BY ENGR.

Diagram illustrating the correct method for pouring concrete around a pipe. The concrete is poured from the top, filling the space around the pipe and extending above it. Labels include 'PIPE', 'POURED CONCRETE', and a note: 'NOTE: CONC. TO EXTEND OVER TOP OF PIPE.' Below the diagram, text reads: 'ALL CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL.'

WATERLINE PIPE BEND THRUST BLOCK AREA		
SIZE & BEND DEGREE	STATIC THRUST (LB)	BLOCKING AREA (FT²)
4" - 22 ½°	1103	1
4" - 45°	2164	2
4" - 90° TEE/PLUG	3998	4
6" - 22 1/2°	2482	2.5
6" - 45°	4867	5
6" - 90° TEE/PLUG	8997	9
8" - 22 1/2°	4413	4.5
8" - 45°	8656	8.5
8" - 90° TEE/PLUG	15994	16

Diagram illustrating a line size valve assembly. The assembly includes a 2" GALV. PIPE, a 2" GALV. NIPPLE, and a PLUG w/ 2" ADAPTOR. The valve is labeled "LINE SIZE VALVE" and is shown with a "VALVE BOX W/ LID". The assembly is supported by "CONCRETE BLOCKING". The diagram also shows "GROUND GRADE" and "10' OF WATER MAIN". A note indicates "WRAP ALL FITTINGS & PIPE".

NOTE: ALL 2", OR 3" GALVANIZED PIPE AND FITTINGS ARE TO BE SCH 40

[illegible]

NOTE: ONLY 3/4" SERVICES TO BE USED OUTSIDE CITY LIMITS
NOTE: 1" SERVICES TO BE USE WHEN WATER PRESSURE IS BELOW 60 PSI

VALVE BOX DETAIL

NATURAL GROUND

SLOPE

METER STOP

METER AND METER TAIL PIECE
TO BE PROVIDED BY CML

3'

CORPORATION STOP

WATER MAIN

WATER MAIN

1"

PART SPECIFICATIONS

3/4" SERVICES

METER BOX BROOKS #BR1015-12B, PLASTIC 12" W/C LID
METER STOP 3/4" FORD BALL VALVE #BA-43-232WR CTS
CORP STOP 3/4" FORD #F1000 TAPER/CTS
COPPER 3/4" TYPE K
SADDLE FORDSTYLE #S70 + S90

1" SERVICES

METER BOX BROOK #BR1520-12B, PLASTIC W/C LID
METER STOP 1" FORD BALL VALVE #BA-43-444W CTS
CORP STOP FORD #F1000 TAPER/CTS
COPPER 1" TYPE K
SADDLE FORD STYLE #S70 + S90

PART SPECIFICATIONS

3/4" SERVICES

METER BOX BROOKS #BR1015-12B, PLASTIC 12" W/C LID
METER STOP 3/4" FORD BALL VALVE #BA-43-232WR CTS
CORP STOP 3/4" FORD #F1000 TAPER/CTS
COPPER 3/4" TYPE K
SADDLE FORDSTYLE #S70 + S90

1" SERVICES

METER BOX BROOK #BR1520-12B, PLASTIC W/C LID
METER STOP 1" FORD BALL VALVE #BA-43-444W CTS
CORP STOP FORD #1000 TAPER/CTS
COPPER 1" TYPE K
SADDLE FORD STYLE #S70 + S90

Technical drawing of a tapping machine. The left side shows a side view with dimensions: N (total width), D (flange diameter), and E (total height). The right side shows a front view with dimensions: 2" SQ. (square flange), G (height to top of flange), and 125 lb. std. drilling B-16.1 Flanged End A-21.11 SMJ End. A note box contains the following text:

TAPPING CONNECTIONS SHALL CONSIST OF TAPPING SLEEVES AND COMPANION TAPPING VALVES. THEY SHALL BE DESIGNED FOR WORKING WATER PRESSURE OF 200 PSI. SLEEVES SHALL BE FASTENED SECURELY TO THE PIPE TO BE TAPPED. TAPPING VALVES SHALL BE BOLTED SECURELY TO THE FLANGES OF THE SLEEVES, AND THE TAPPING MACHINE CONNECTED TO THE MECHANICAL JOINT END. THE INLET OPENINGS SHALL BE FLANGED AND THE OUTLET OPENINGS SHALL HAVE MECHANICAL JOINT ENDS. ALL TAPS WILL BE PERFORMED BY CWL.

NOTE: CONTRACTOR TO PURCHASE FROM CWL

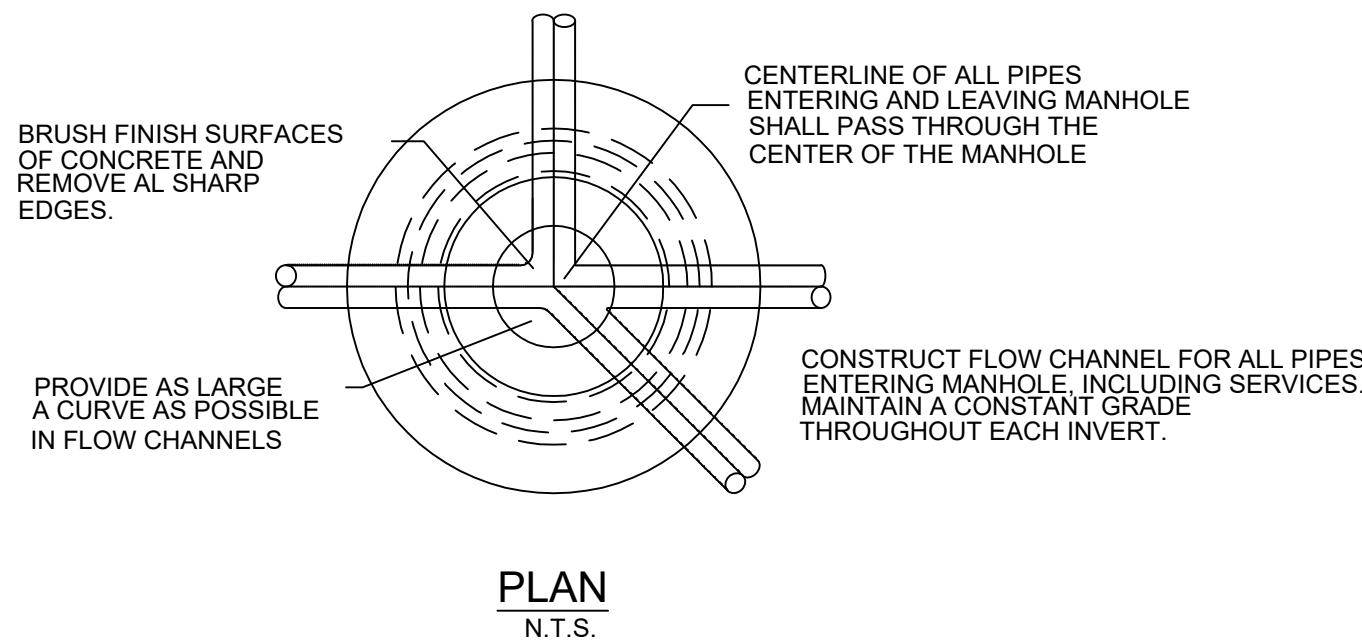
No. & Size of bolt

H-langed Ends JS-MU End											
VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L
4	8-14	4-14	2.50	8-12	9	1-9/16	14-3/4	8-3/4	4-3/4	10	14
6	10-14	5	2.50	11-1/2	11	1	10	9-3/4	5-3/4	12	16
8	11	5-1/4	2.50	13-3/4	13-1/2	1-1/8	12-1/2	5-3/4	6-3/4	13	18
10	12-1/2	6	2.50	15-3/4	16	1-1/4	16-1/2	12-7/8	8-3/4	18	20
12	13-1/2	6-1/2	2.50	18	18	1-5/8	20	12-7/8	9-3/4	18	22
14	15-1/4	6-1/2	2.50	20-3/4	21-3/8	2	22-3/8	13-3/8	10-3/4	20	24

NOTES TYPICAL TO ALL MANHOLES

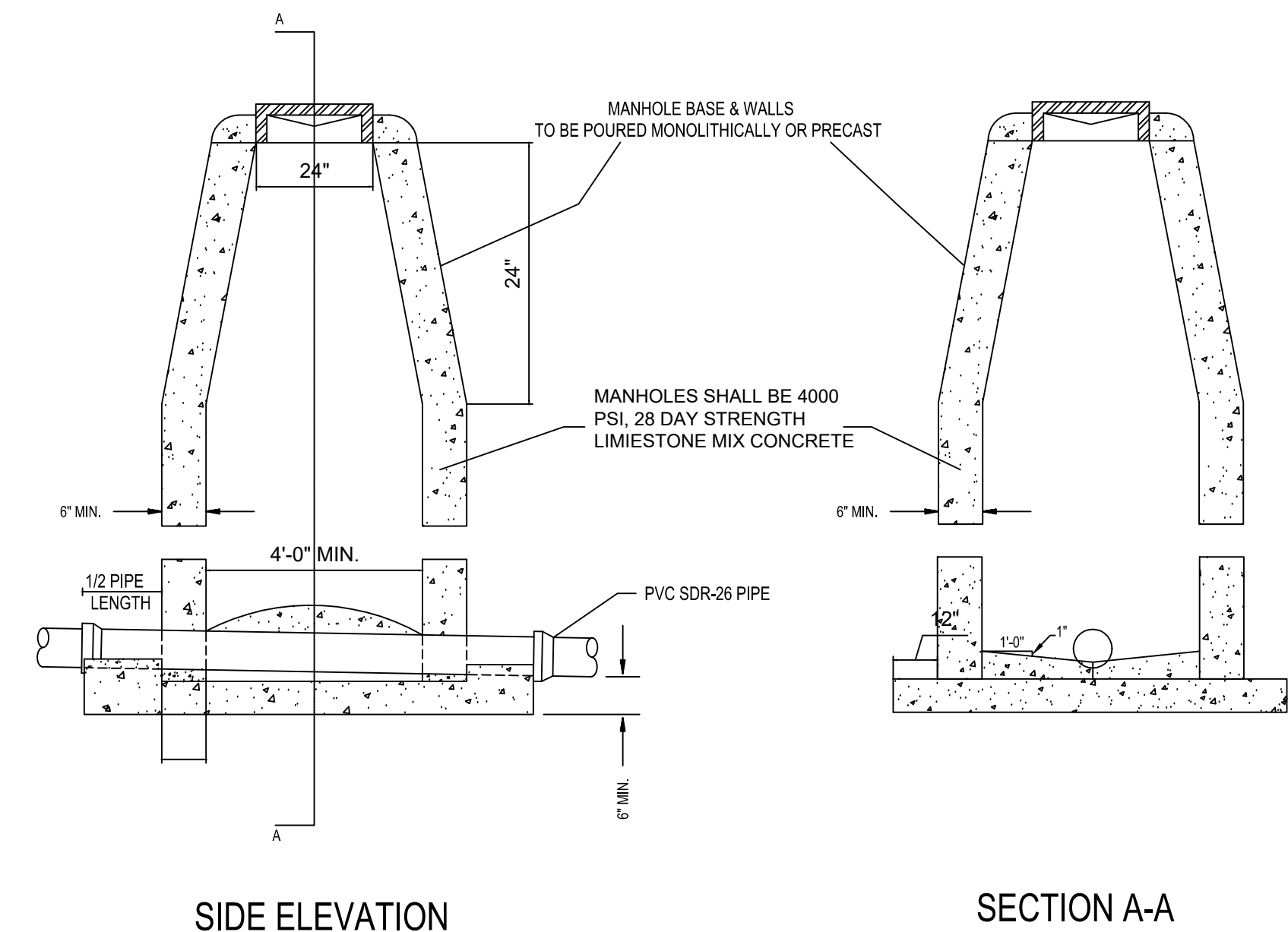
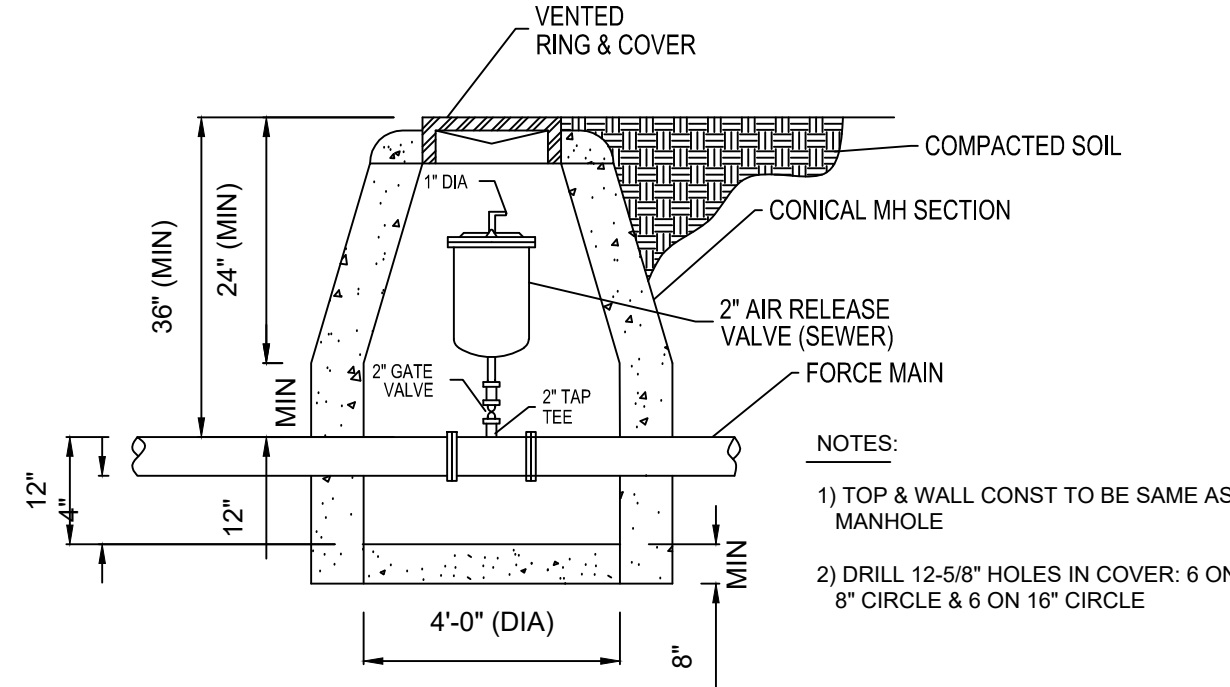
- MANHOLE BASES TO BE 4000 PSI, 28 DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
- MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSAL FORM REQUIREMENTS.
 - 4" I.D. FOR SEWER SIZES 6" THRU 24"
 - 5" I.D. FOR SEWER SIZES 24" THRU 30"
 - 6" I.D. FOR SEWER SIZES 36" THRU 42"
- SET MANHOLE TOPS AS FOLLOWS:
 - IN STREETS, ROADS, HIGHWAYS, AND OTHER PAVED AREAS: FLUSH WITH FINISHED PAVING GRADE.
 - UNDEVELOPED AREAS, SUCH AS FIELDS, WOODS, ETC...: 12" ABOVE GROUND.
 - OTHER AREAS: 1" ABOVE GROUND.
- MANHOLE FRAMES SHALL HAVE MIN. OPENING OF 22" DIA.

STANDARD MANHOLE



MANHOLE DETAILS

AIR/VACUUM RELEASE VALVE DETAIL

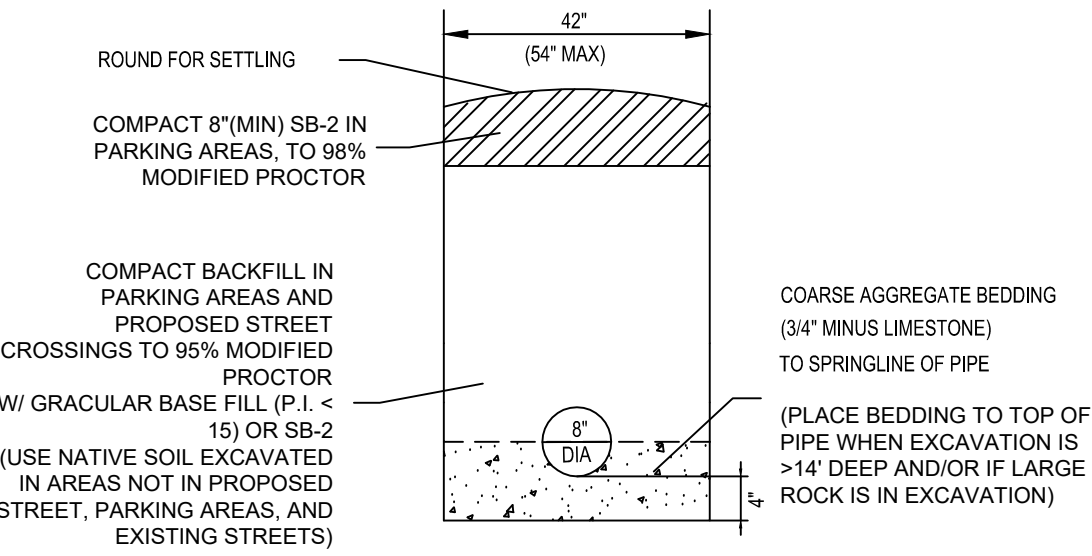


STANDARD MANHOLE

NON-EXISTING STREET LOCATIONS
SDR-26 PVC TRENCH DETAIL

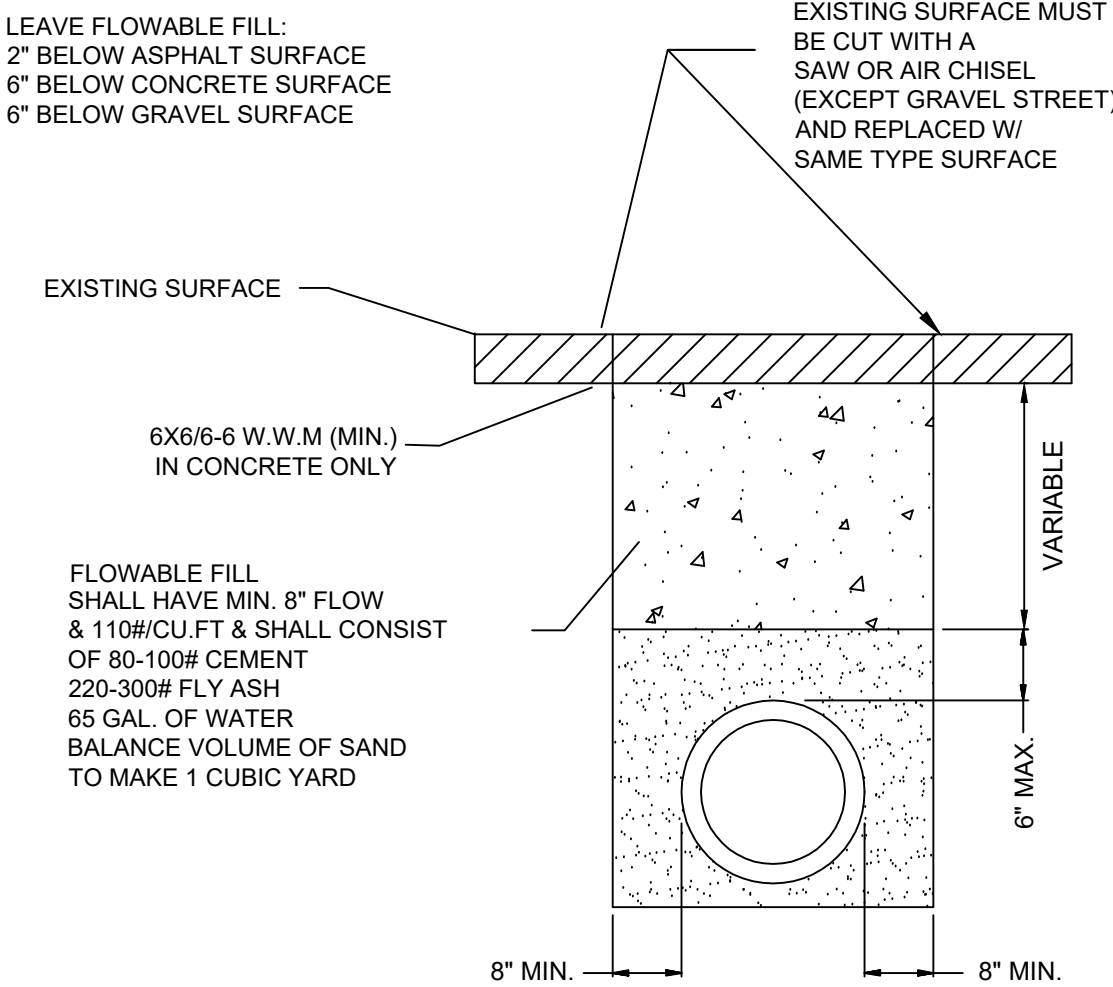
NOTES:

- COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
- PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF 3/4" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPACTED BACK TO GRADE W/ BEDDING MATERIAL.
- PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



PVC TRENCH DETAIL

- NOTE: (1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
(2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR
(3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.

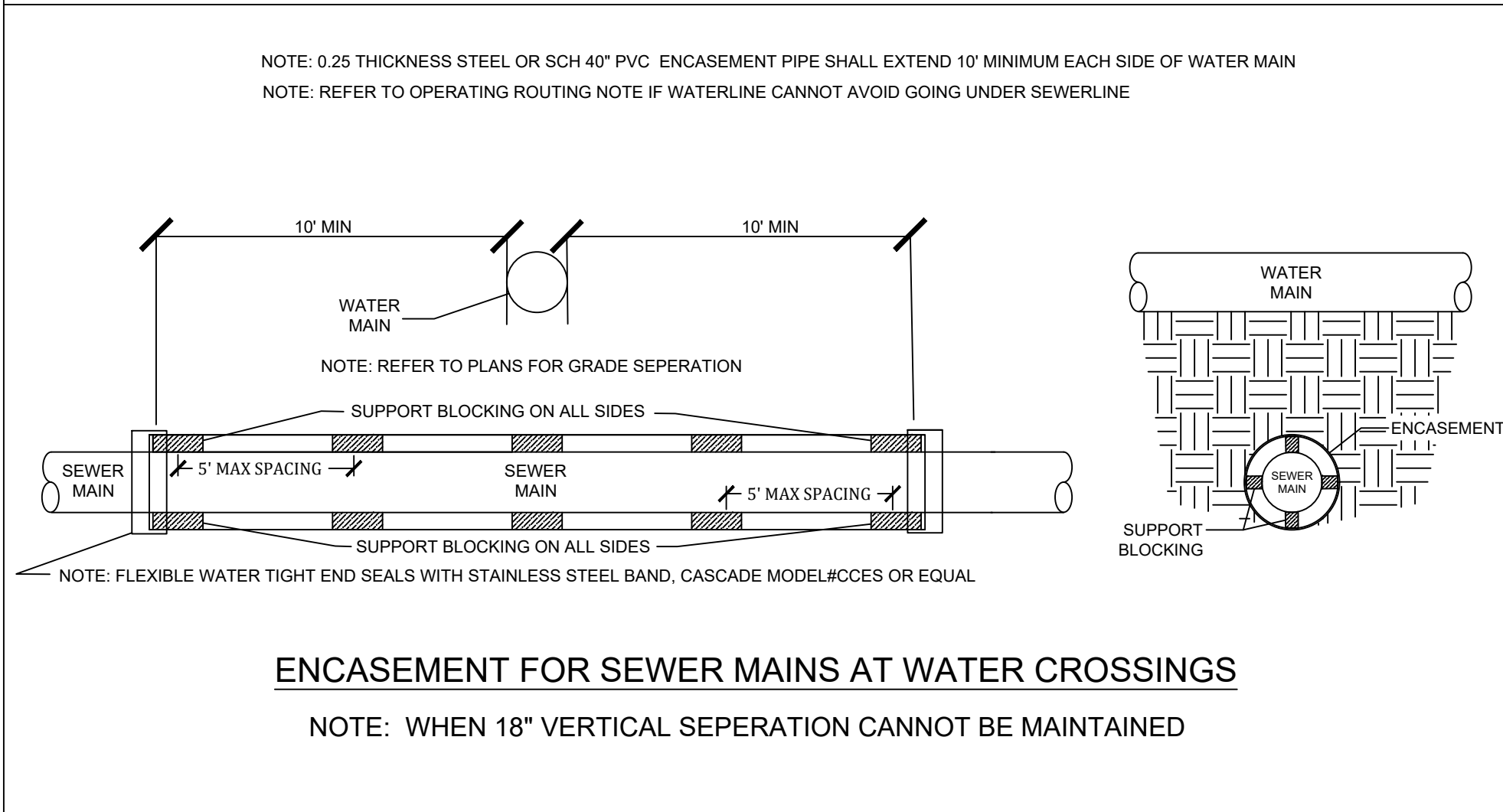
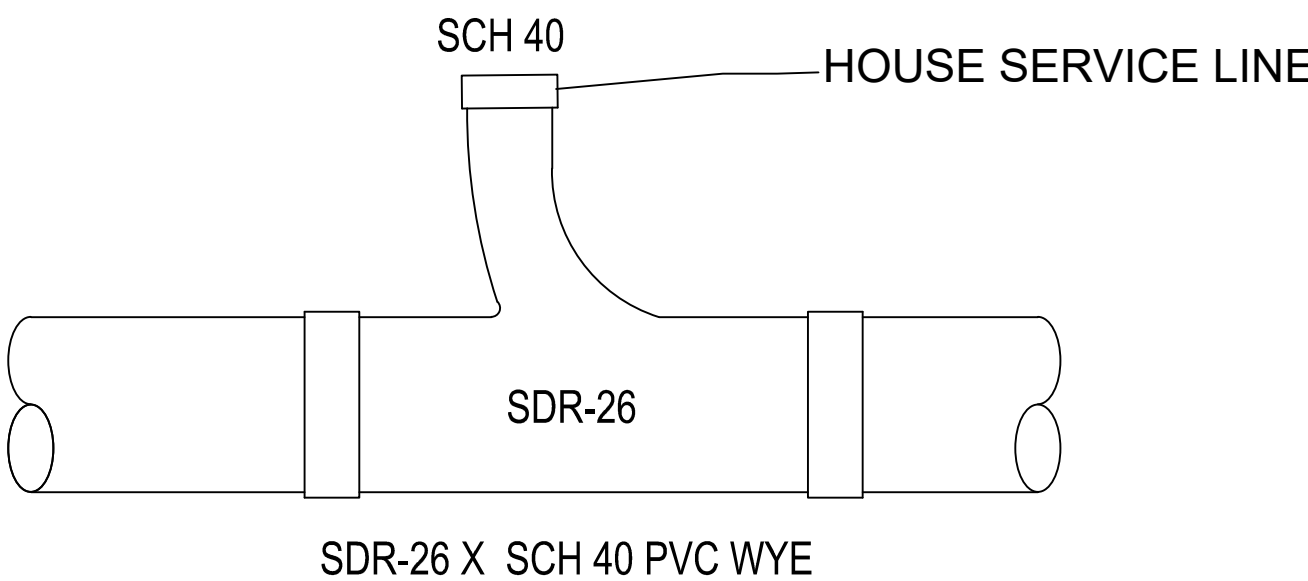


EXISTING STREET LOCATIONS

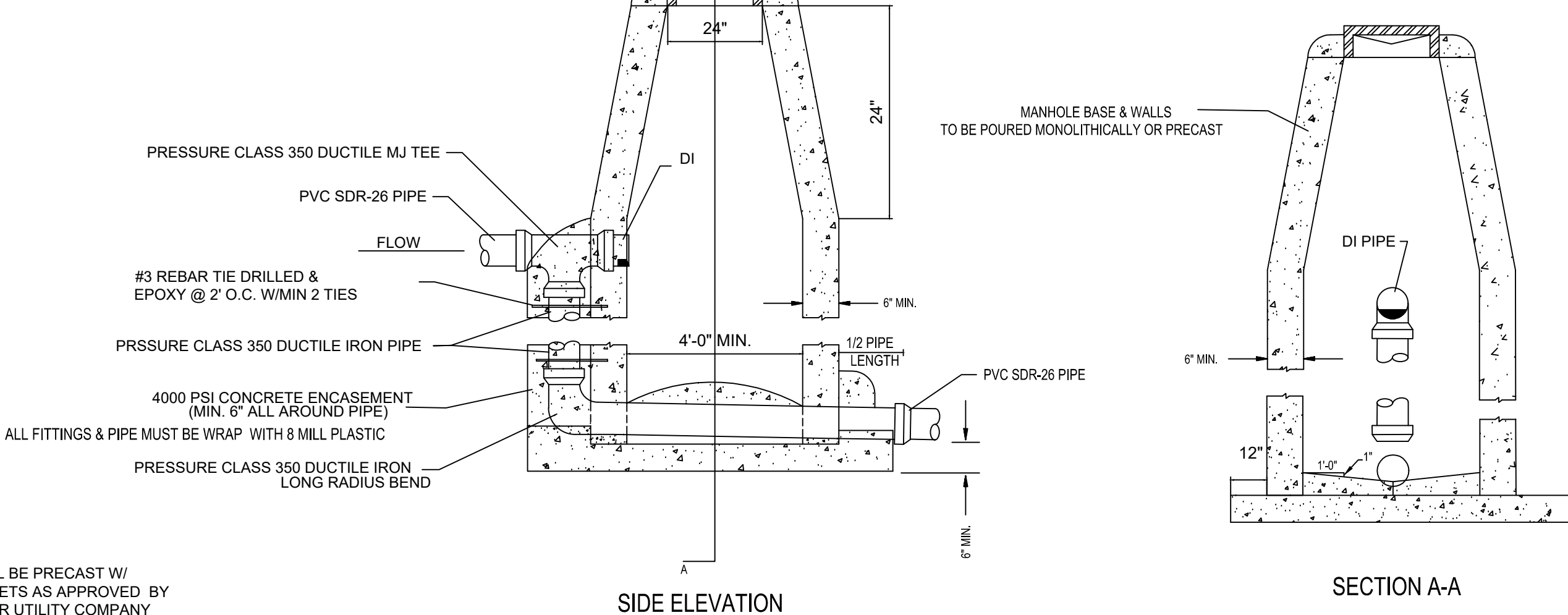
SINGLE WYE

ALL SERVICE LINES UNDER PAVEMENT SHALL BE PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

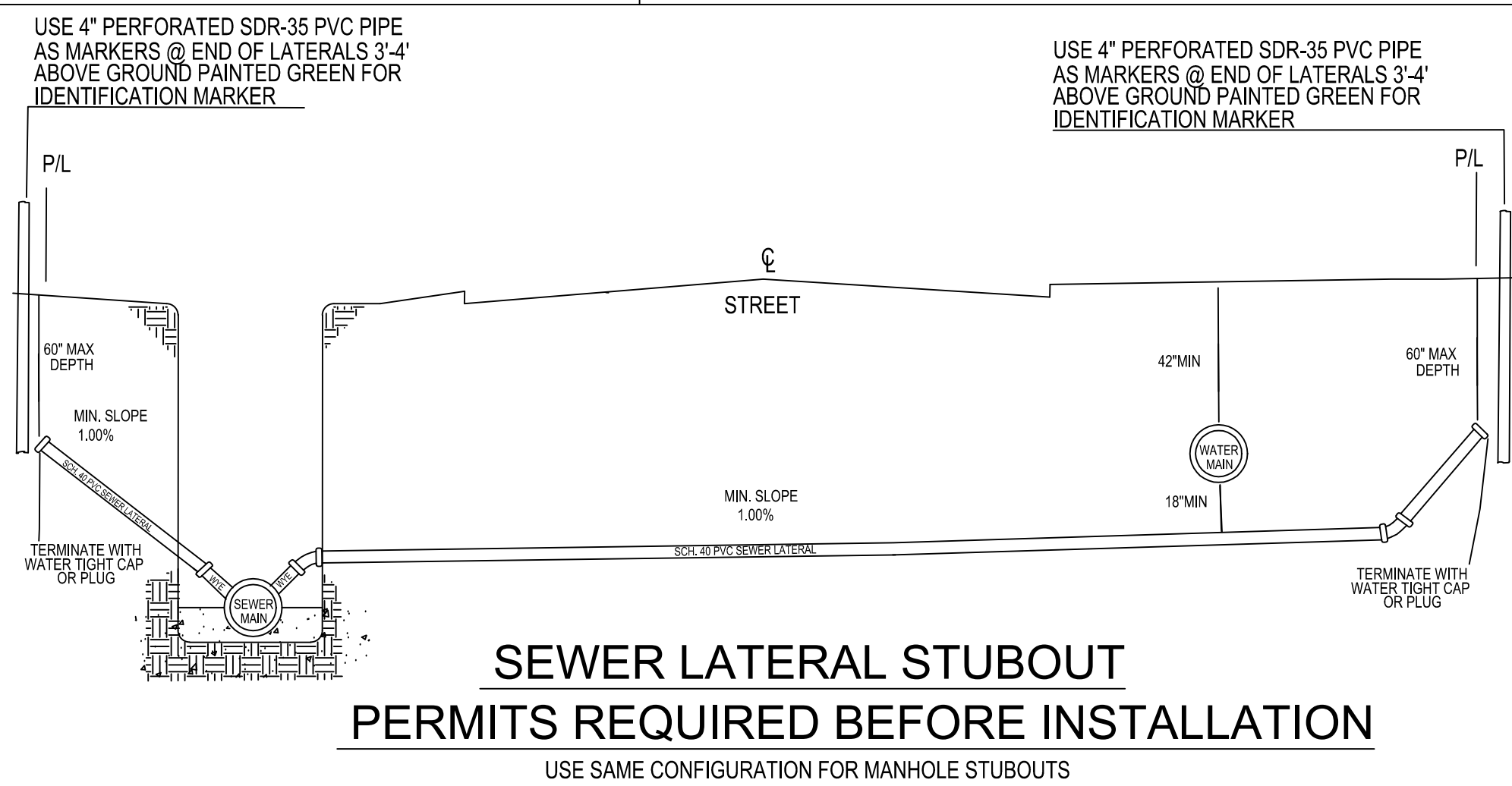
TEE WYE ONLY



MANHOLE
CONSTRUCTION DETAIL

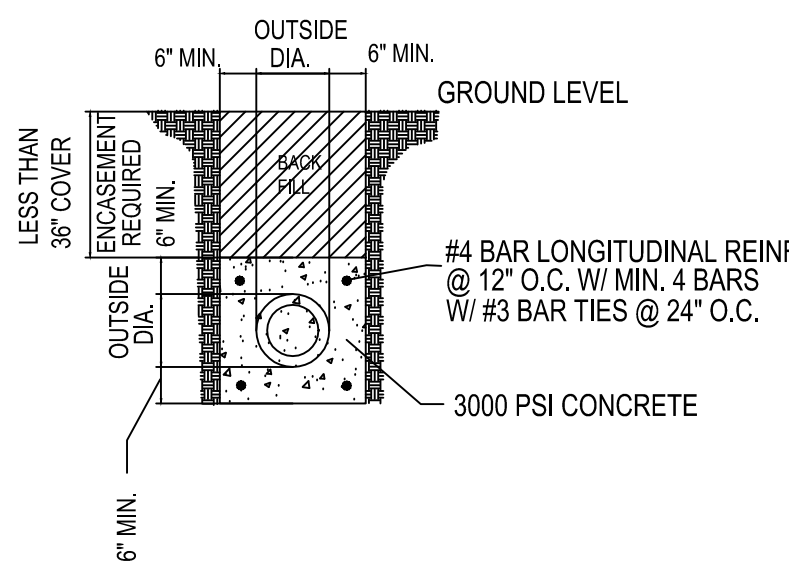


DROP MANHOLE



SEWER LATERAL STUBOUT
PERMITS REQUIRED BEFORE INSTALLATION

USE SAME CONFIGURATION FOR MANHOLE STUBOUTS

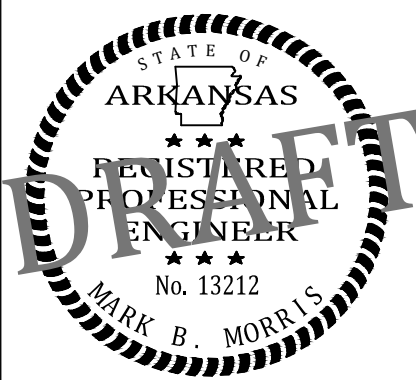


CONCRETE ENCASEMENT
FOR
DITCH CROSSINGS

NOTE: ENCASEMENT PIPE MUST PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MILL PLASTIC

PROSPECT FARMS PHASE VI

SEWER DETAILS



REVISIONS

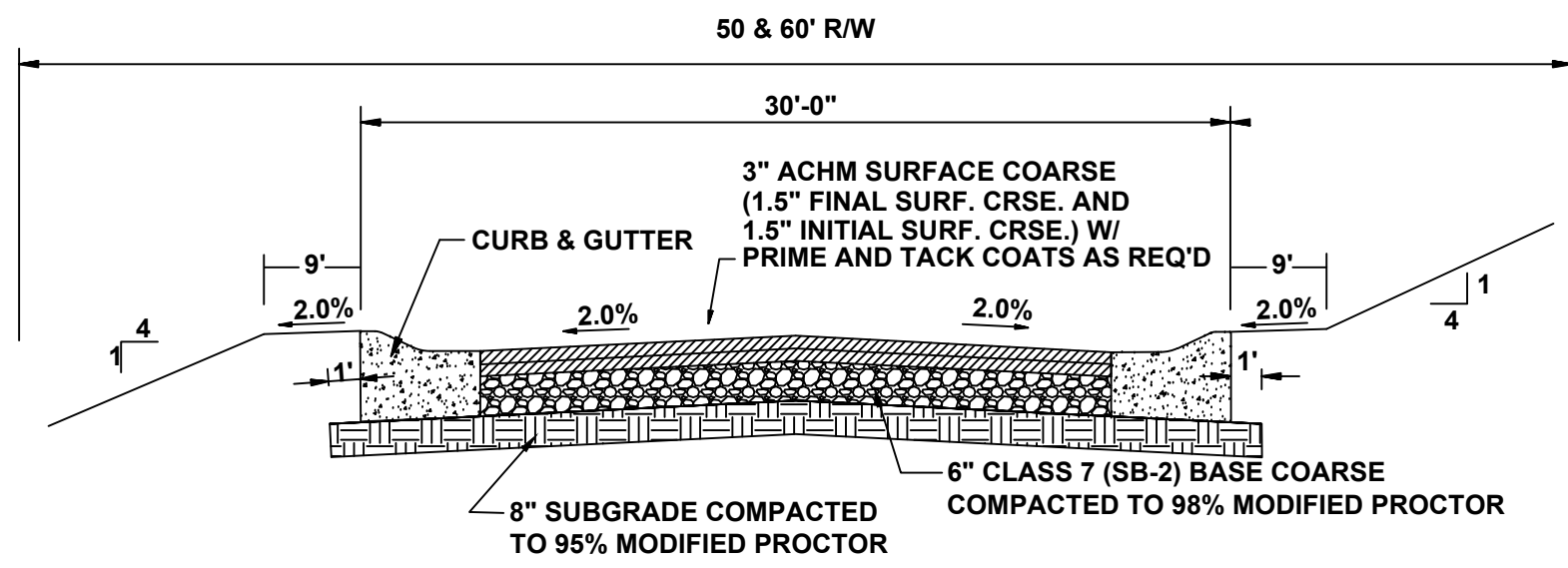
DATE	BY	DESCRIPTION

DRAWING INFO.

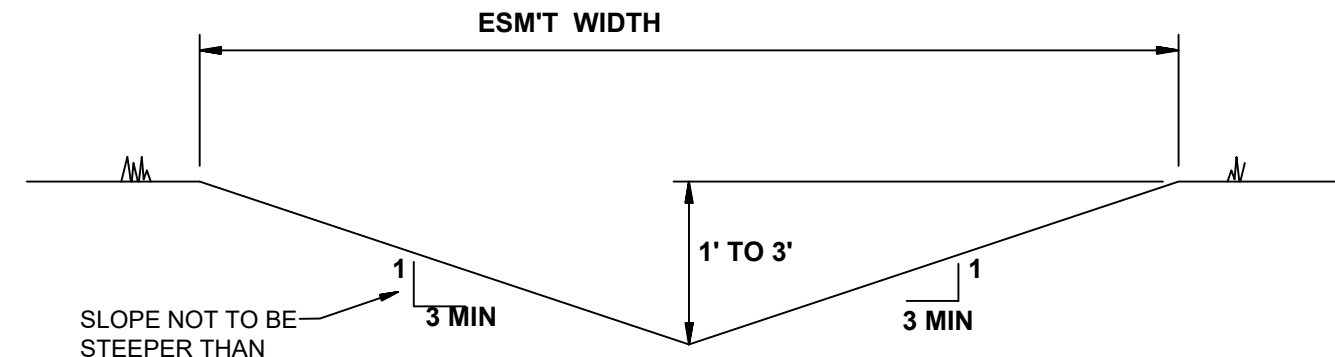
DRAWN BY:	
DATE:	
SCALE:	

SHEET NUMBER:

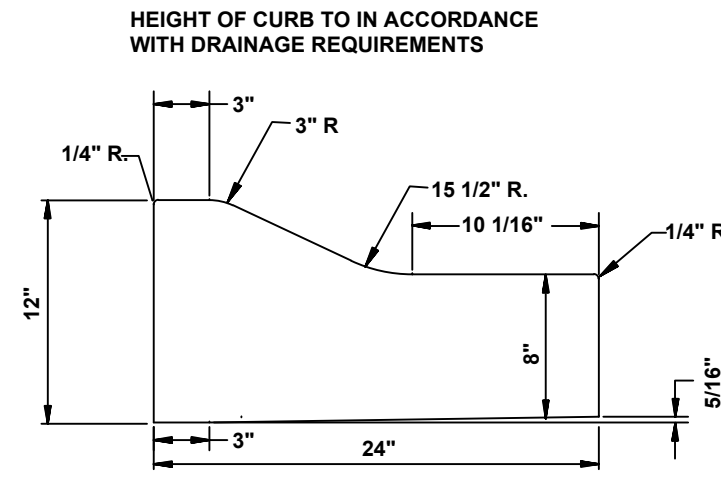
DT-3



TYPICAL SECTION - INTERIOR STREETS
N.T.S.

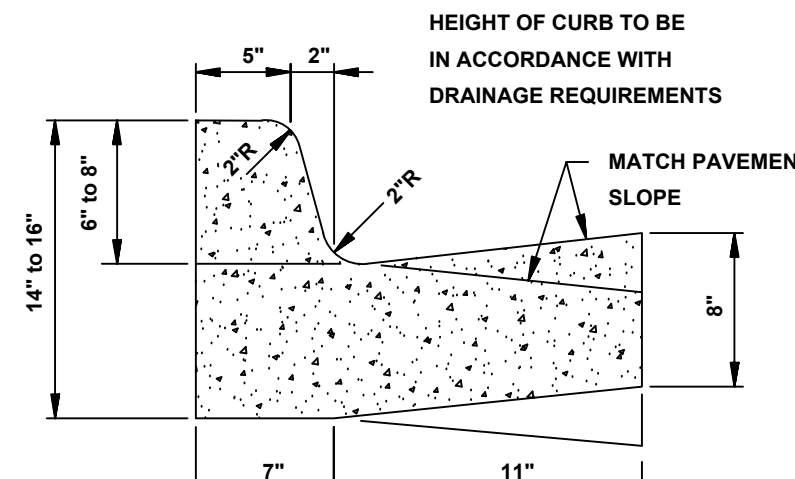


'A' TYPICAL DITCH DETAIL
N.T.S.

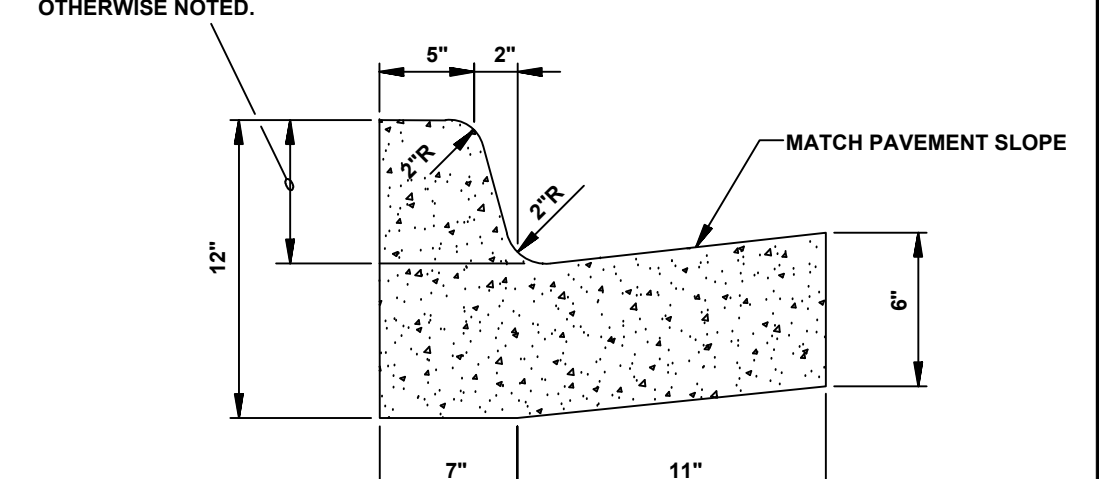


TYPE 'B' CURB & GUTTER
N.T.S.

NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF JONESBORO SPECIFICATIONS
NO DRIVEWAY CUTS ALLOWED WITH THIS TYPE OF CURB



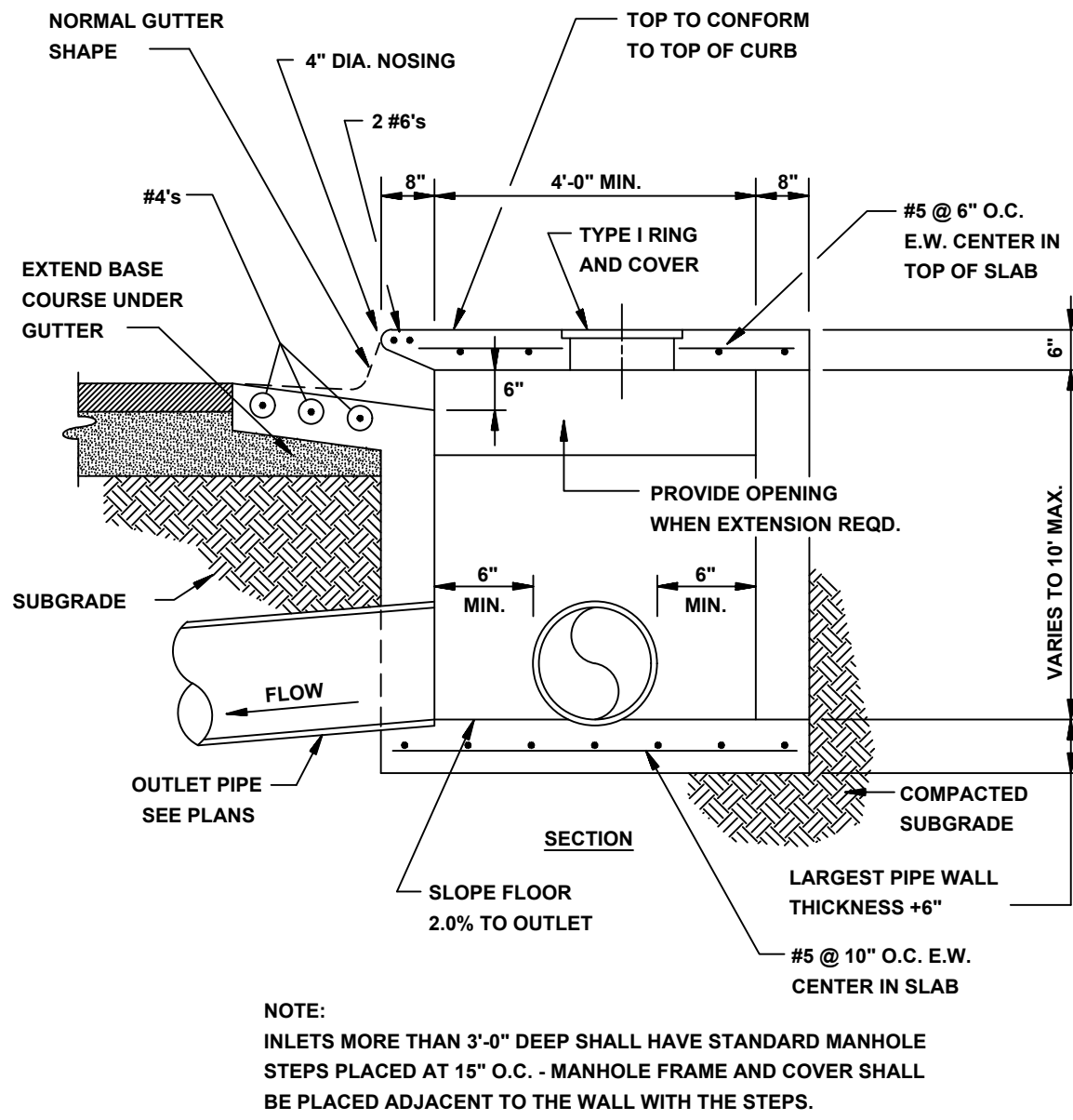
TYPE "A-18" (BARRIER) ARTERIAL STREETS



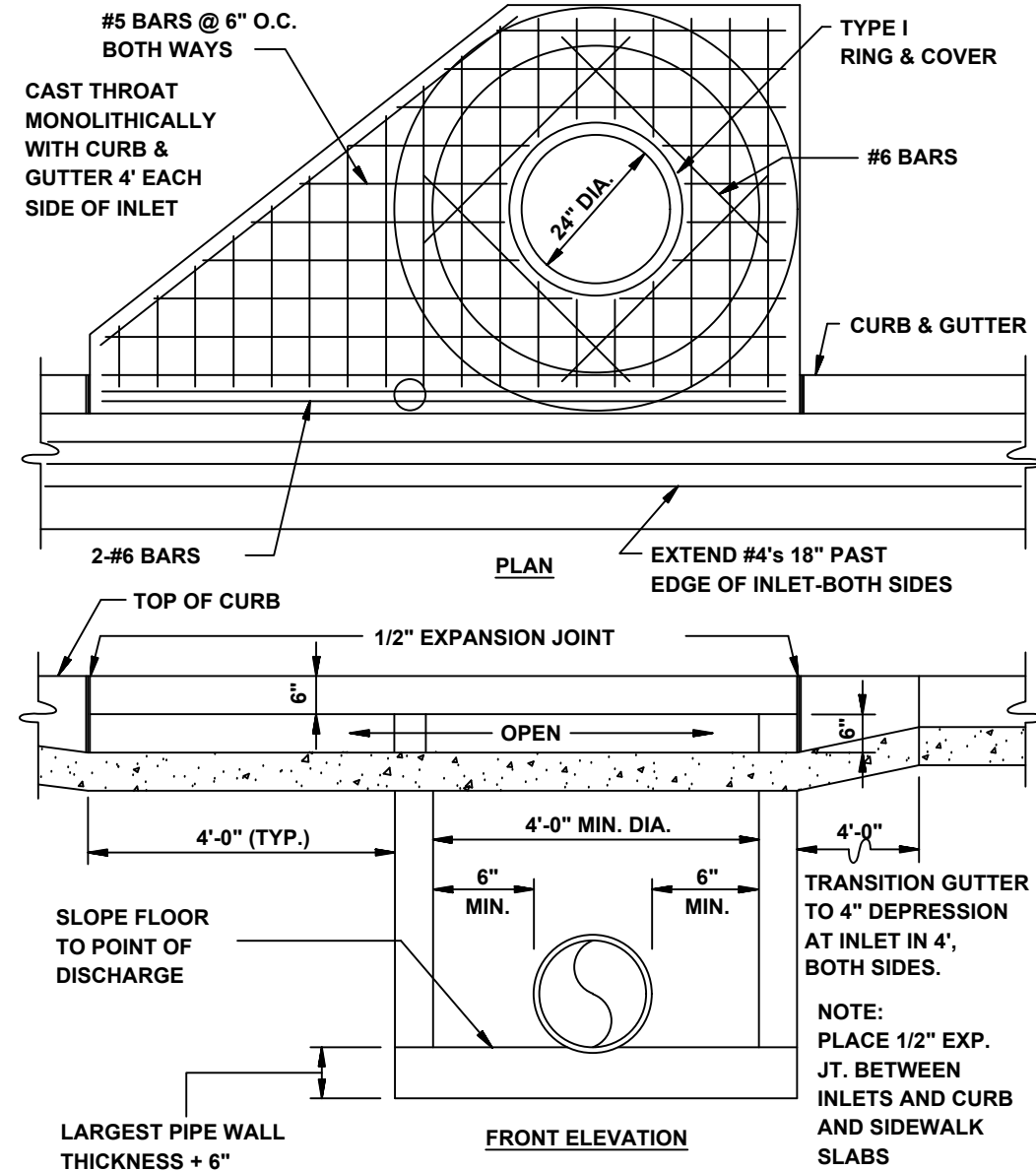
TYPE "A-18" (BARRIER) RESIDENTIAL & COLLECTOR STREETS

COMBINATION CURB & GUTTER
N.T.S.

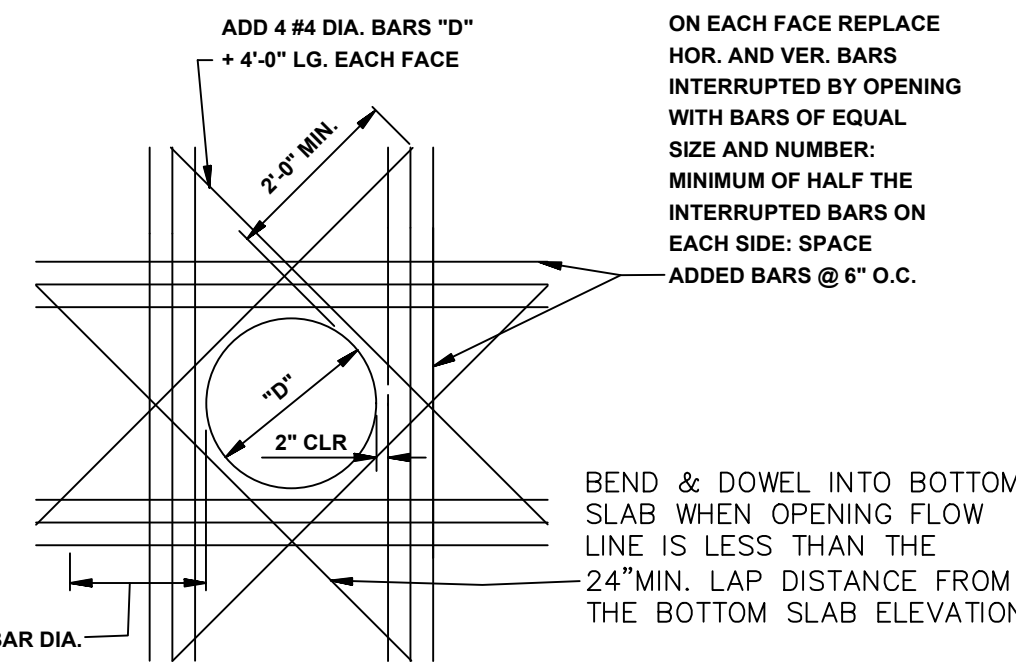
NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.



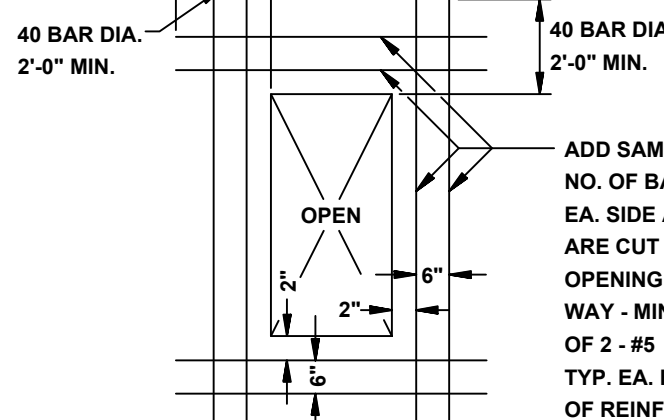
SECTION - CIRCULAR CURB INLET
N.T.S.



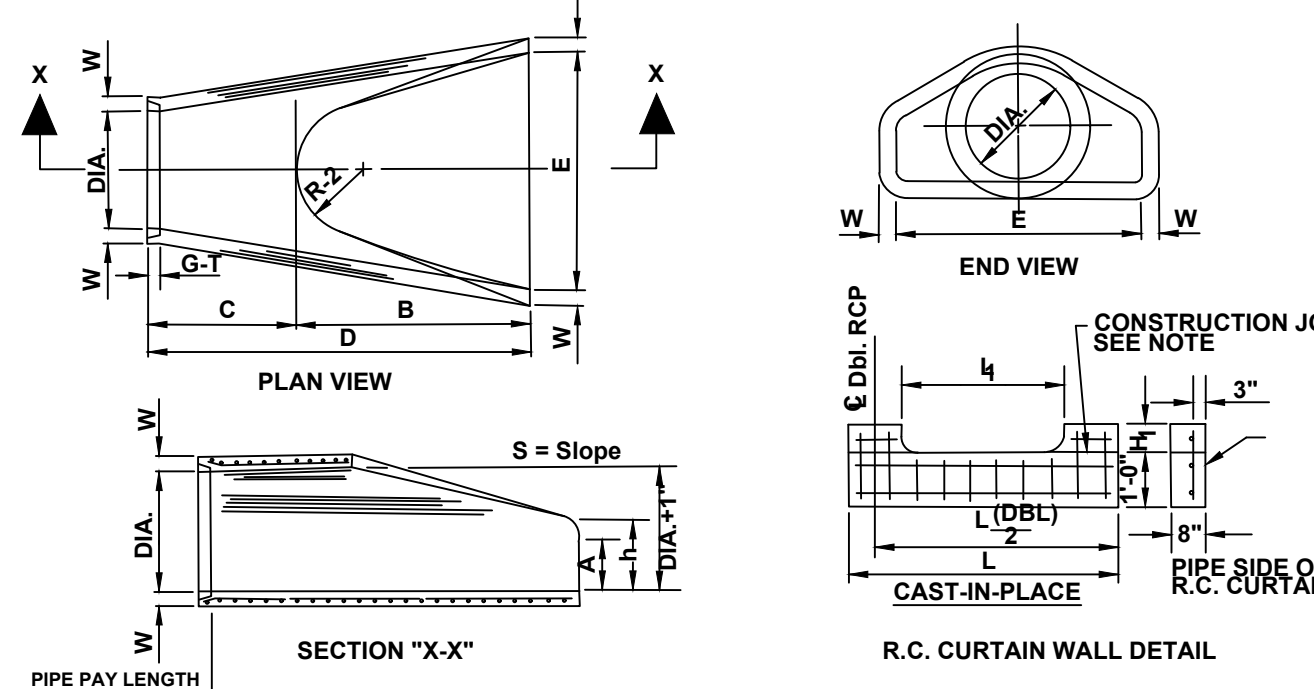
**CIRCULAR CURB INLET
W/ INLET EXTENSION**
N.T.S.



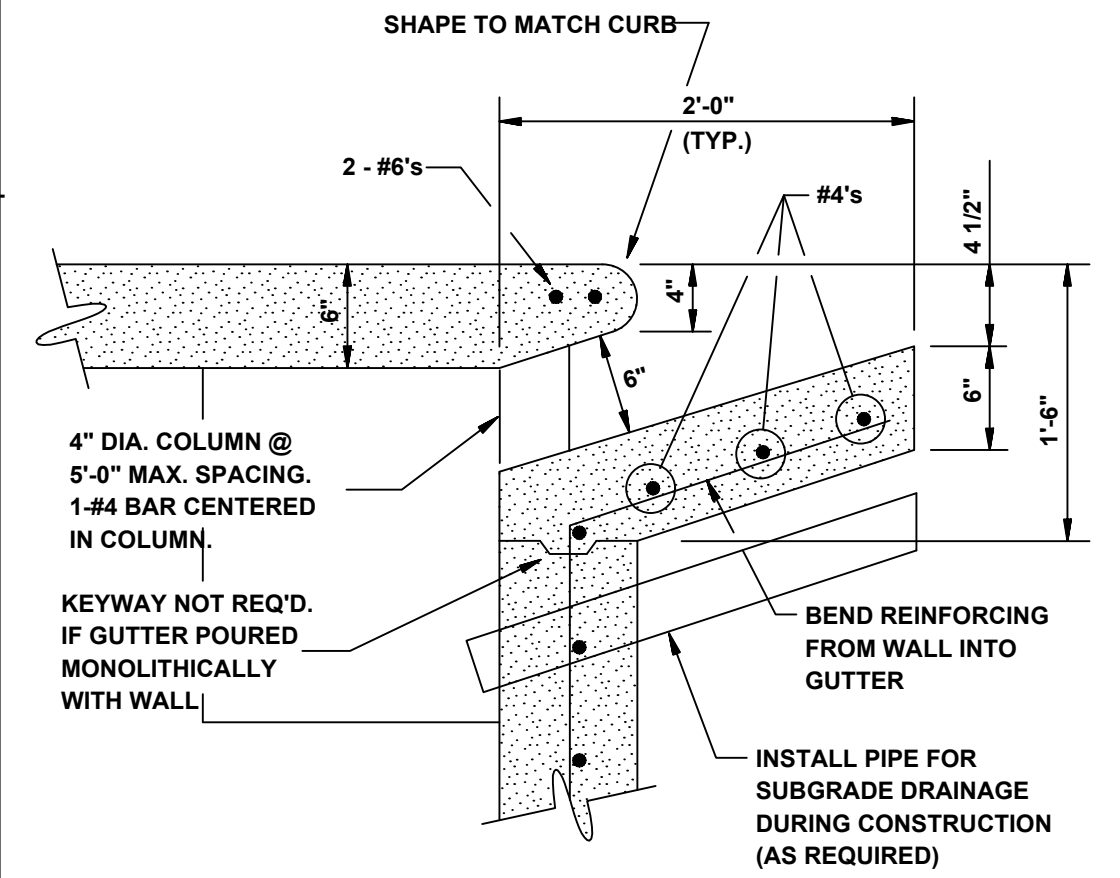
**ADDED REINFORCEMENT AT
ROUND OPENING IN WALL OR SLAB**
N.T.S.



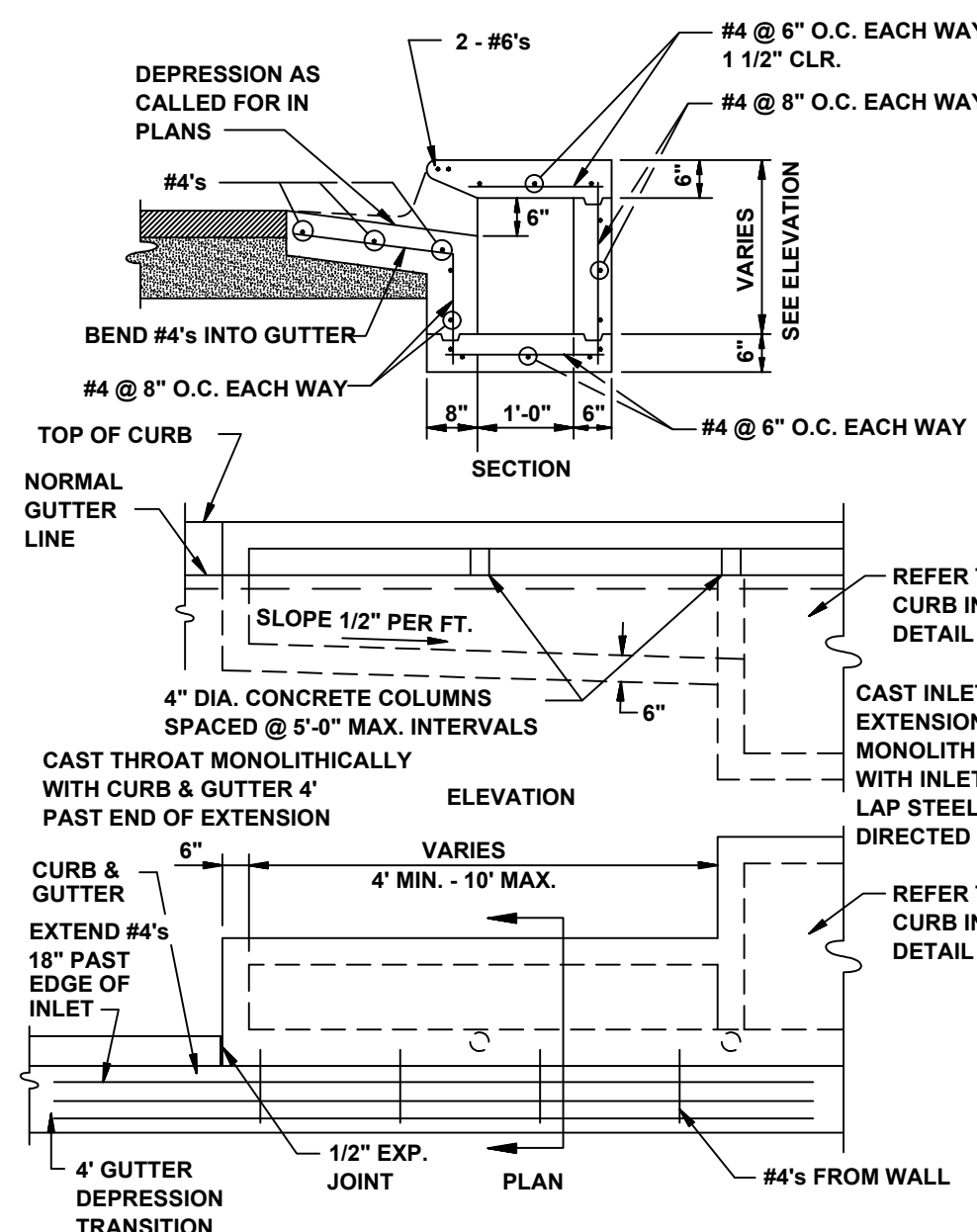
**ADDED REINFORCEMENT AT
RECTANGULAR OPENING
IN WALL OR SLAB**
N.T.S.



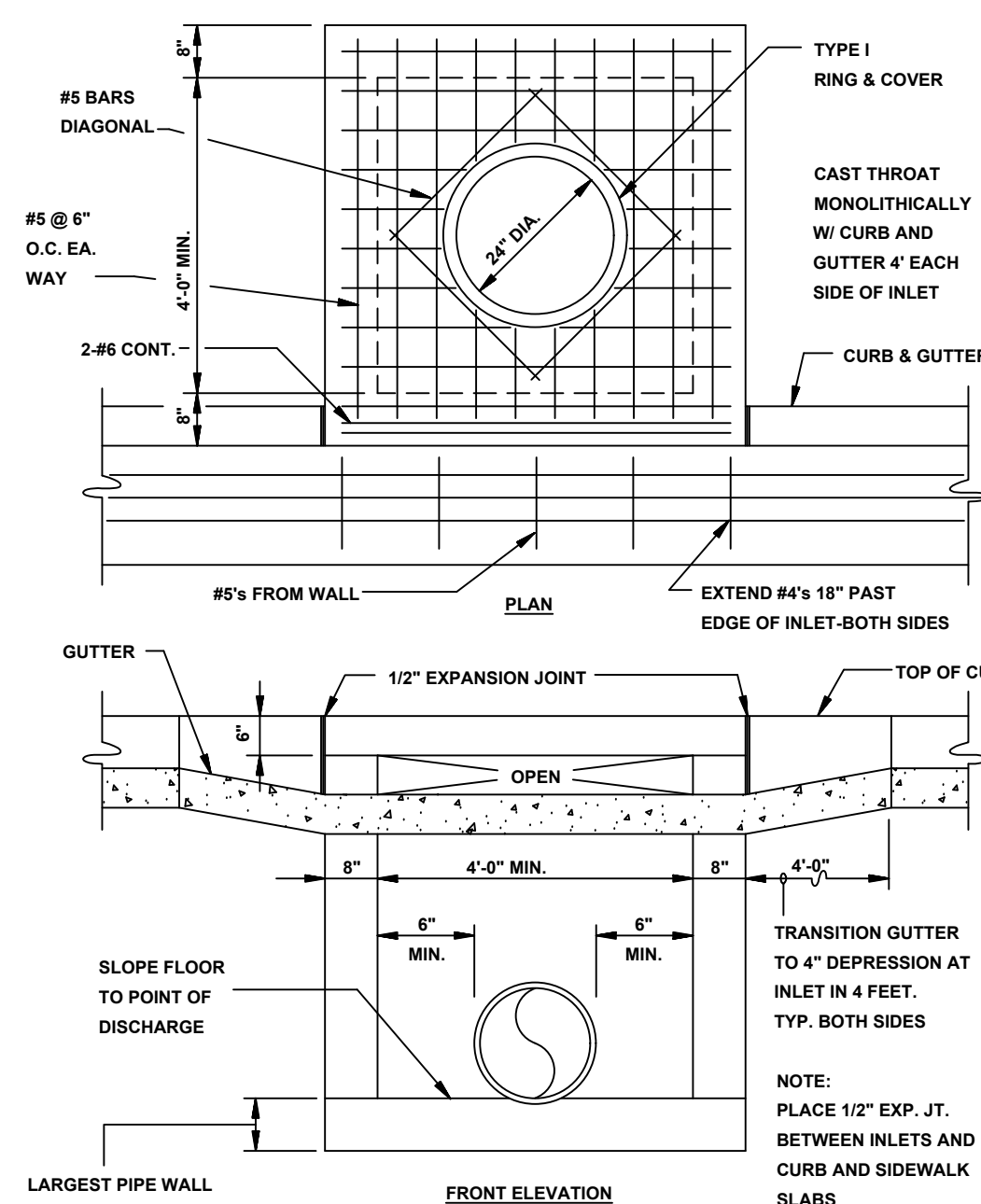
**FLARED END SECTION DETAIL FOR
REINFORCED CONCRETE PIPE CULVERT**
N.T.S.



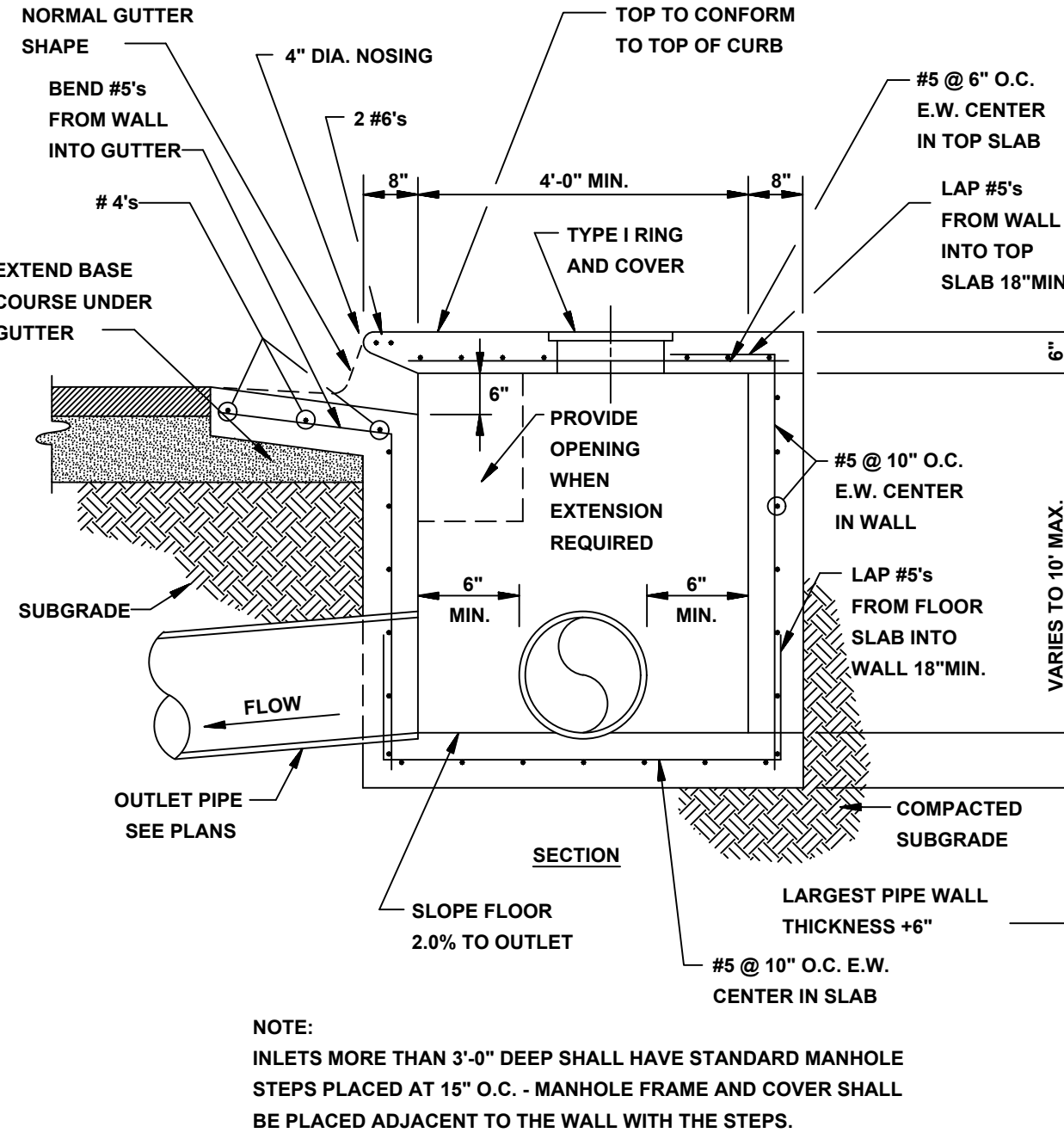
CURB OPENING
N.T.S.



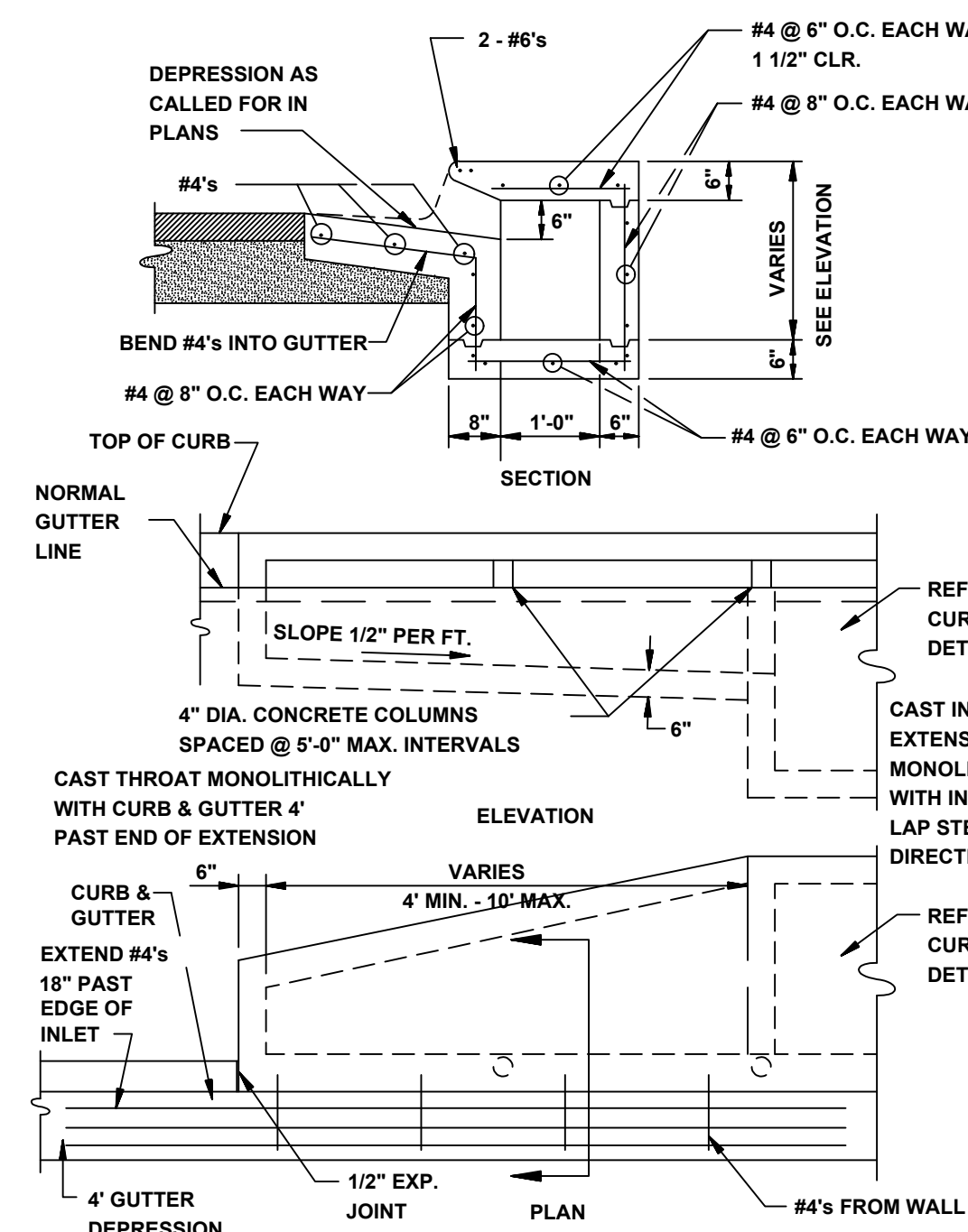
RECTANGULAR CURB INLET EXTENSION
N.T.S.



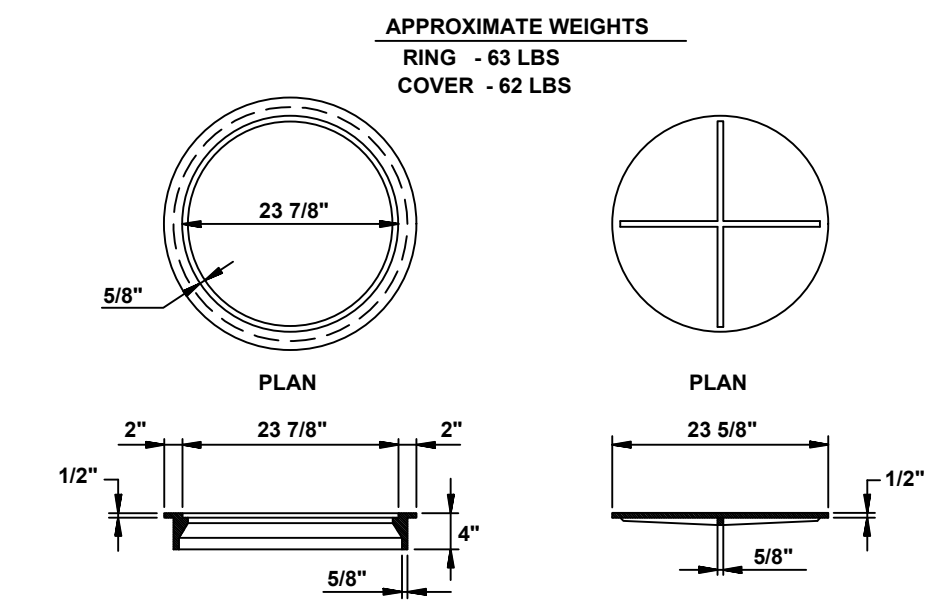
RECTANGULAR CURB INLET
N.T.S.



SECTION - TYPICAL CURB INLET - TYPE 'A'
N.T.S.

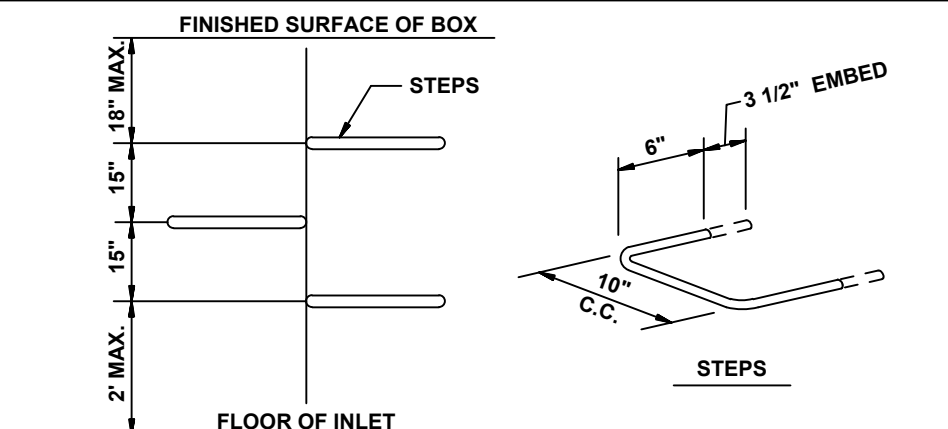


ALTERNATE CURB INLET EXTENSION
N.T.S.



TYPE I RING & COVER
N.T.S.

NOTE: TYPE I FRAME AND COVER PERMITTED ONLY ON STRUCTURES NOT SUBJECT TO VEHICULAR TRAFFIC.



MANHOLE / INLET STEPS
N.T.S.

STEPS SPECIFICATIONS:
A. MANHOLE STEPS: CORROSION RESISTANT, COATED AND REINFORCED WITH STEEL PER ASTM C-478. STEEL REINFORCING MINIMUM 1/2" DIAMETER.
B. CAPABLE OF SUPPORTING MINIMUM 300 LB. LOAD.
C. NON-SLIP TEXTURED TREADS.
D. REQUIRED IN ALL STRUCTURES 3'-0" DEEP OR DEEPER, UNLESS SPECIFIED OTHERWISE.