

⊙	GAS METER	Ⓜ	STORM DRAIN MANHOLE	▨	ASPHALT
⊙	WATER METER	Ⓜ	SEWER CLEANOUT	▨	CONCRETE
⊙	GUY WIRE	N	NORTH	●	SET 1/2" REBAR w/ CAP #1853
⊙	POWER/UTILITY POLE	S	SOUTH	●	SET COTTON-PICKER SPINDLE
⊙	TELEPHONE PEDESTAL	E	EAST	○	FOUND MONUMENT (DESC. NOTED)
⊙	SEWER MANHOLE	W	WEST	△	COMPLETED CORNER (NOT SET)
⊙	WATER VALVE	(M)	AS MEASURED	▲	CORRESPONDS TO DRAWING NOTE
⊙	FIRE HYDRANT	(D)	PER DEED		
⊙	SIGNS	(R)	RECORDED		
⊙	LIGHT POLE	RW	RIGHT-OF-WAY		
⊙	TELEPHONE MANHOLE	L.A.	LANDSCAPED AREA		
---	SS --- SANITARY SEWER LINE	CR4	CAPPED 1/2" REBAR		
---	W --- WATER LINE	CONC.	CONCRETE		
---	STORM SEWER PIPE	P.O.C.	POINT OF COMMENCEMENT		
---	ROADWAY CENTERLINE	P.O.B.	POINT OF BEGINNING		
---	UTILITY EASEMENT	CMP	CORRUGATED METAL PIPE		
---	BUILDING SETBACK LINE	RCP	REINFORCED CONCRETE PIPE		
---	ROADWAY RIGHT-OF-WAY	ESMT	EASEMENT		
---	OHE --- OVERHEAD ELECTRIC LINES	HDPE	HIGH DENSITY POLYETHYLENE		
---	UST --- UNDERGROUND TELEPHONE	SUBD	SUBDIVISION		
---	UG --- UNDERGROUND GAS	FDC	FIRE DEPARTMENT CONNECTION		
---	FO --- UNDERGROUND FIBER OPTIC	CPS	COTTON PICKER SPINDLE		
		P5	5/8" PIPE		

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C1.1	OVERALL SITE PLAN
C1.2	SITE PLAN
C1.3	SITE DETAILS
C1.4	GRADING PLAN
C1.5	STORM SEWER PLAN
C1.6	STORM SEWER PROFILE
C1.7	UTILITY PLAN
C1.8	SANITARY SEWER PROFILE
C1.9	UTILITY DETAILS
C1.10	UTILITY DETAILS
C1.11	PRE DRAINAGE MAP
C1.12	POST DRAINAGE MAP
C1.13	LANDSCAPE PLAN
C1.14	STORM WATER POLLUTION PREVENTION PLAN
C1.15	SWPPP DETAILS
AA-1	3D VIEWS -ISO
AA-2	3D VIEWS
AA-3	3D VIEWS
AA-4	3D VIEWS-INTERIOR
AA-5	FLOOR PLAN- FURNITURE
AA-6	EXTERIOR ELEVATIONS
AA-7	EXTERIOR ELEVATIONS
AA-8	EXTERIOR ELEVATIONS

BRYANT SEMINARY

HIGHWAY 5
BRYANT, AR

GENERAL CONSTRUCTION NOTES

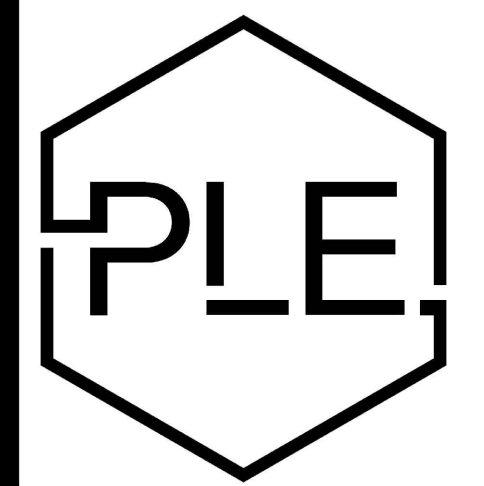
- A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
- C. THE DUTY OF THE LOCAL UTILITY PROVIDER TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.
- E. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- F. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- G. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- H. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY THE LOCAL UTILITY PROVIDER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.
- I. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.
- J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.



Vicinity Map

SCALE 1" = 1000'

DEVIATIONS/VARIANCES

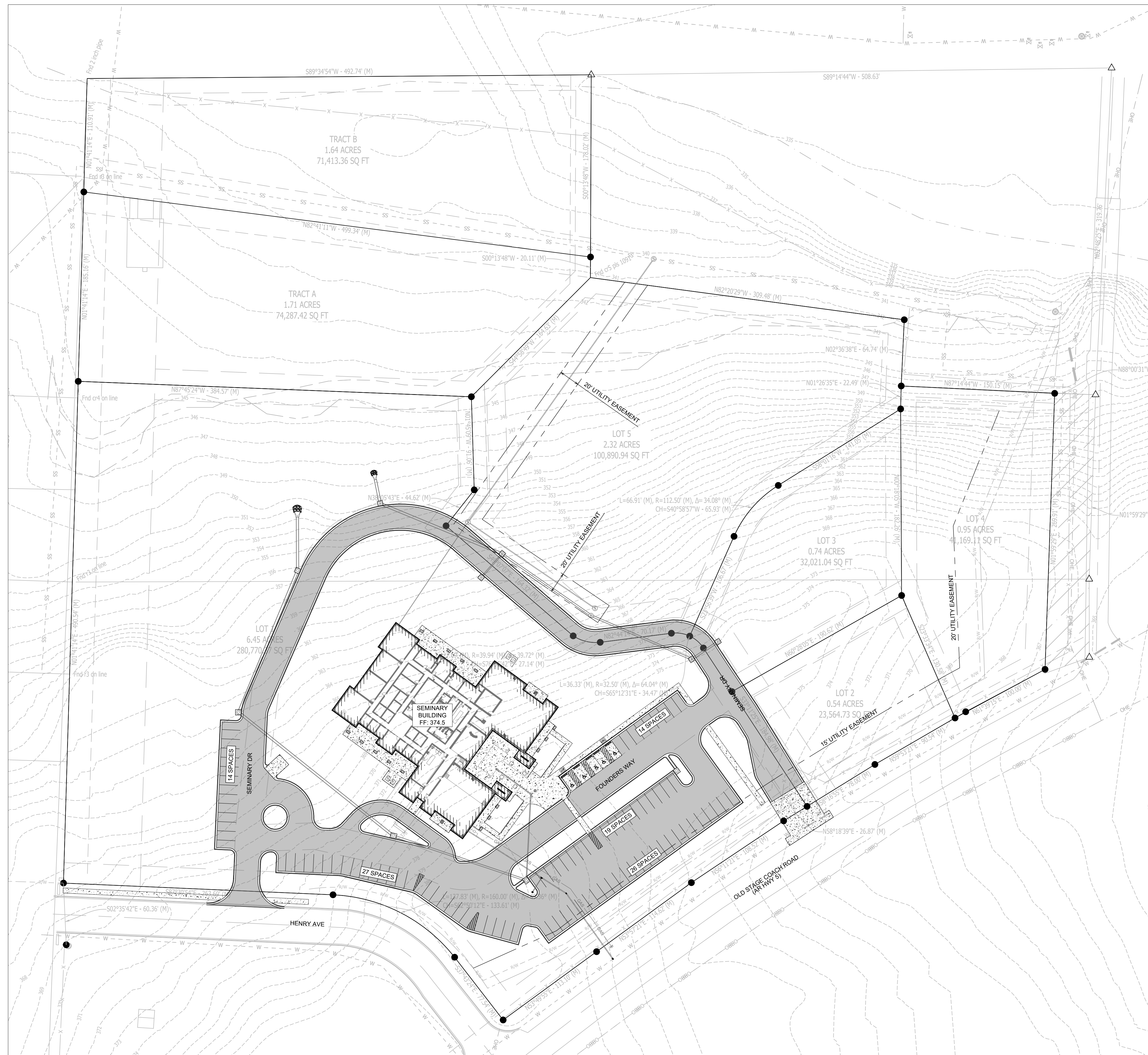


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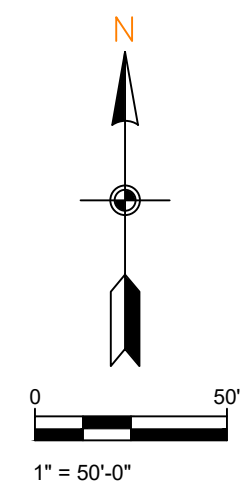




SITE LAYOUT PLAN

ADDITIONAL UTILITY EASEMENTS SHOWN ON THIS PLAN WILL BE GRANTED INDEPENDENTLY OR INCLUDED IN A FUTURE REPEAT PRIOR TO ANY CERTIFICATE OF OCCUPANCY

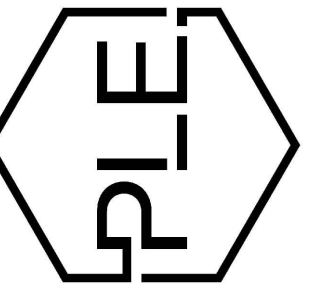
SCALE 1" = 50'



GENERAL CONSTRUCTION NOTES

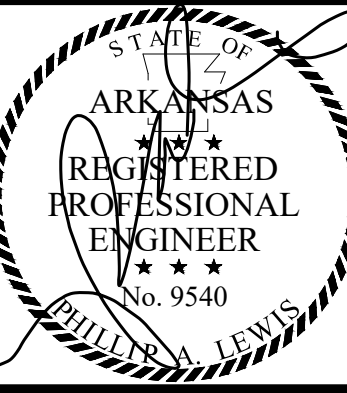
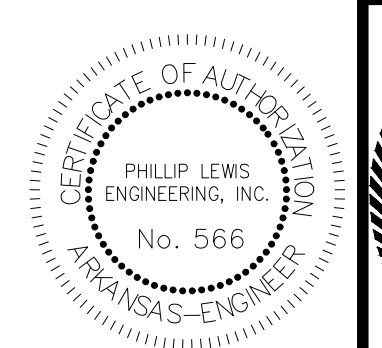
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BRYANT, ARKANSAS



PROJECT NUMBER:

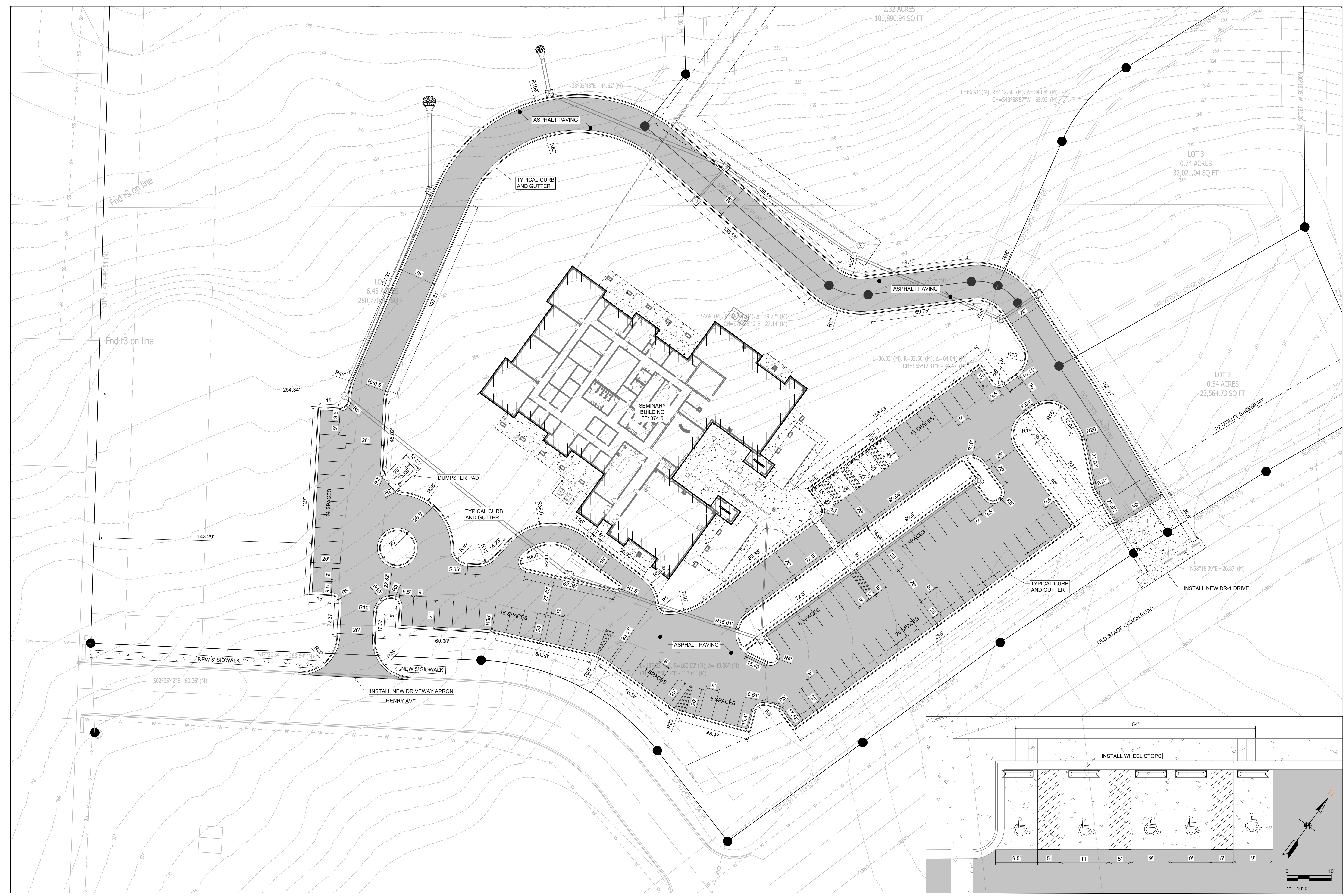
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10-31-2024

PAGE TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

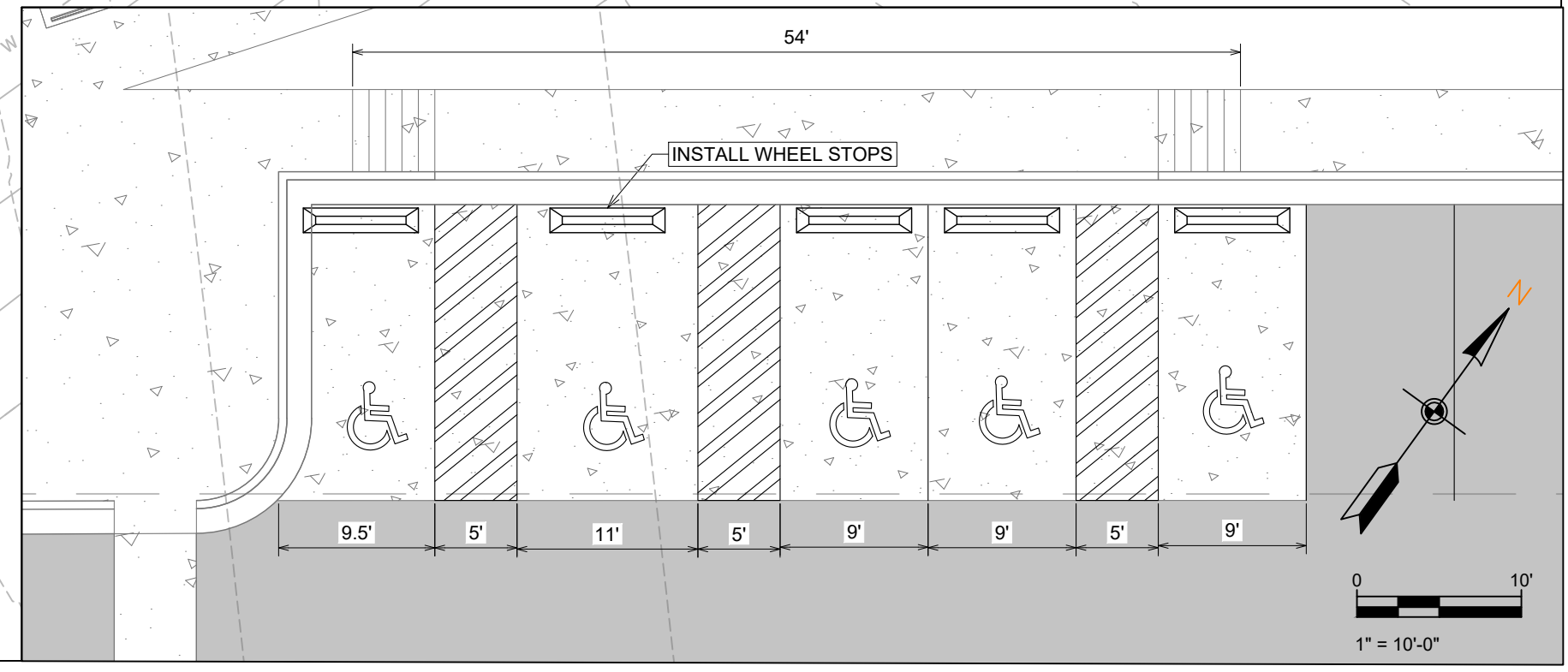
C1.1



SITE PLAN
GENERAL SITE NOTES

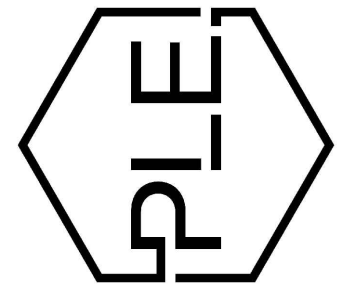
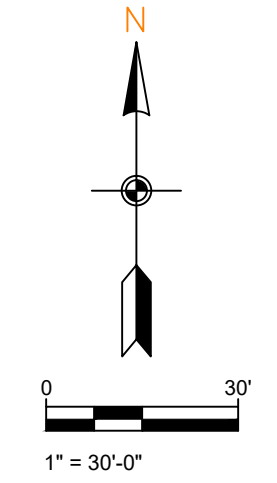
- TOTAL NEW DEVELOPMENT AREA = (+/-) 4.96 ACRES
- PROPERTY IS ZONED C-2
- 100 PARKING SPACES PROVIDED INCLUDING 5 ADA ACCESSIBLE PARKING SPACES
- ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
- DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
- ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.
- ALL MECHANICAL EQUIPMENT WILL NEED TO BE SCREENED TO MEET THE CITY OF BRYANT COMMERCIAL DESIGN STANDARDS.

ADA PARKING STALLS



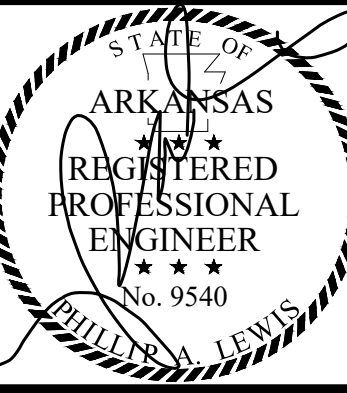
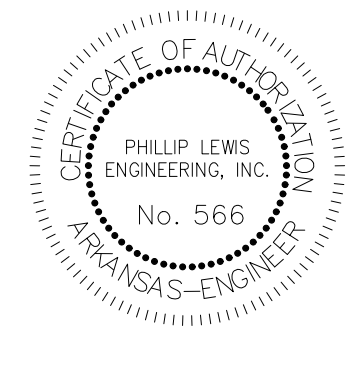
SCALE 1" = 30'

SCALE 1" = 10'-0"



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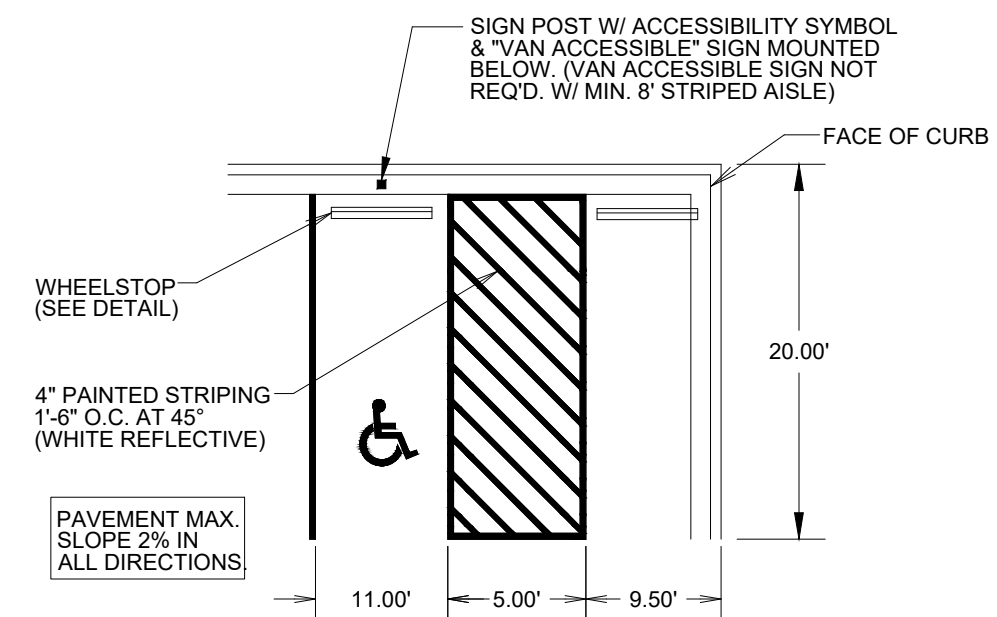
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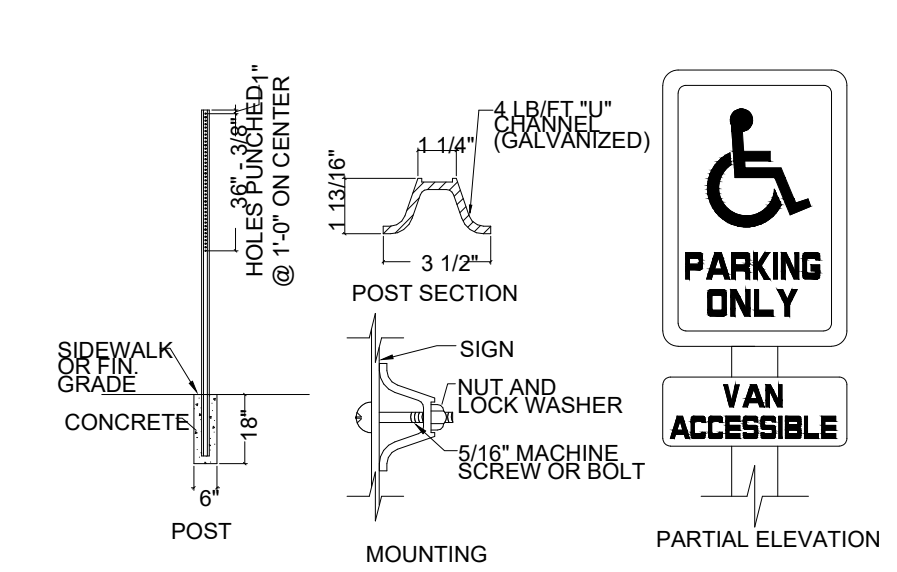
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SITE PLAN

SHEET NUMBER:
C1.2

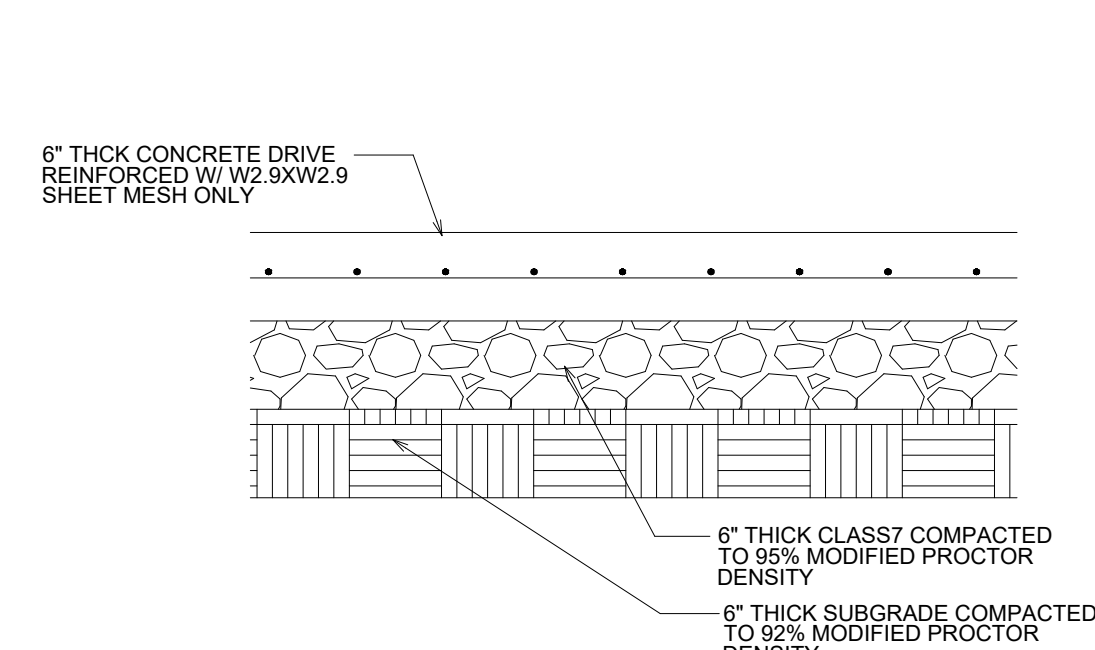


TYPICAL ACCESSIBLE PARKING STALLS

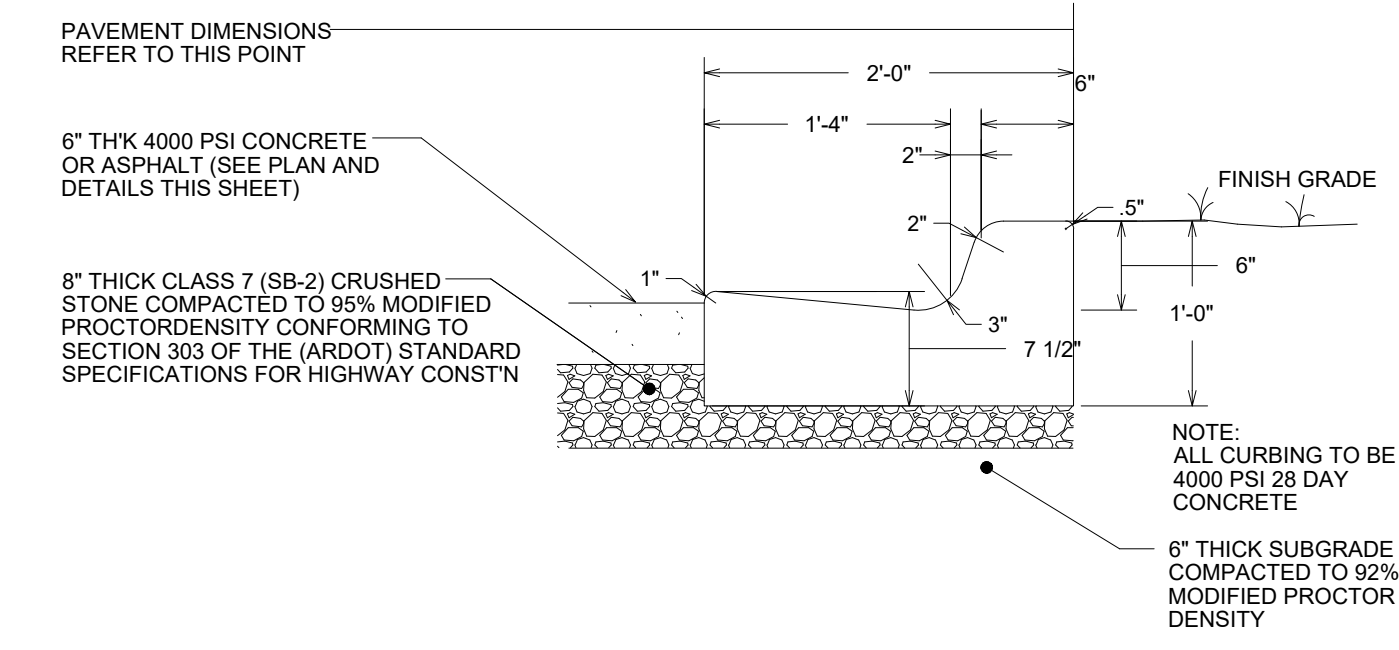


HANDICAP SIGN DETAIL NOT TO SCALE

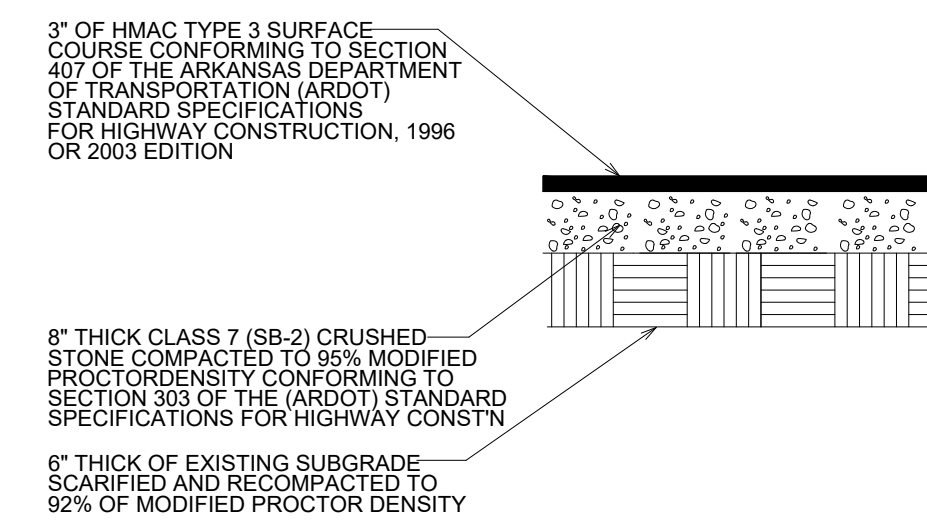
NOTE: HANDICAP SIGNAGE SHALL BE IN STRICT COMPLIANCE WITH CURRENT FEDERAL AND LOCAL LAW REQUIREMENTS.



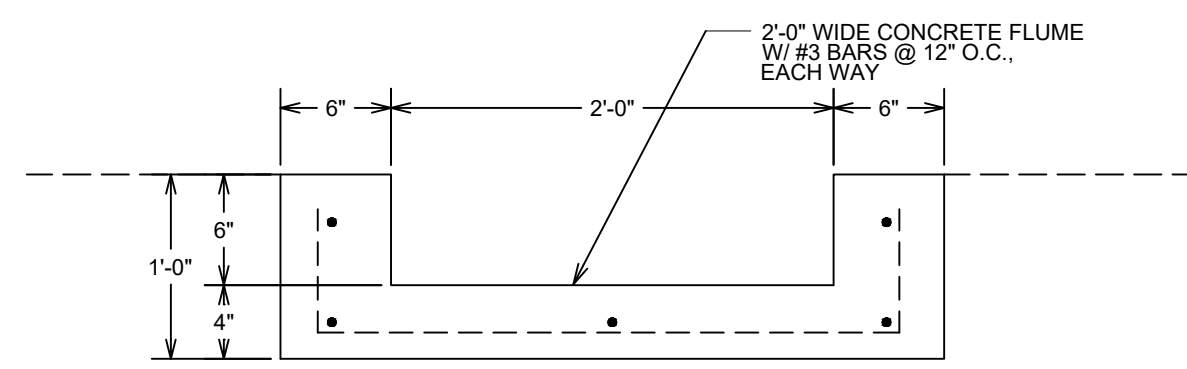
CONCRETE DRIVE SECTION NOT TO SCALE



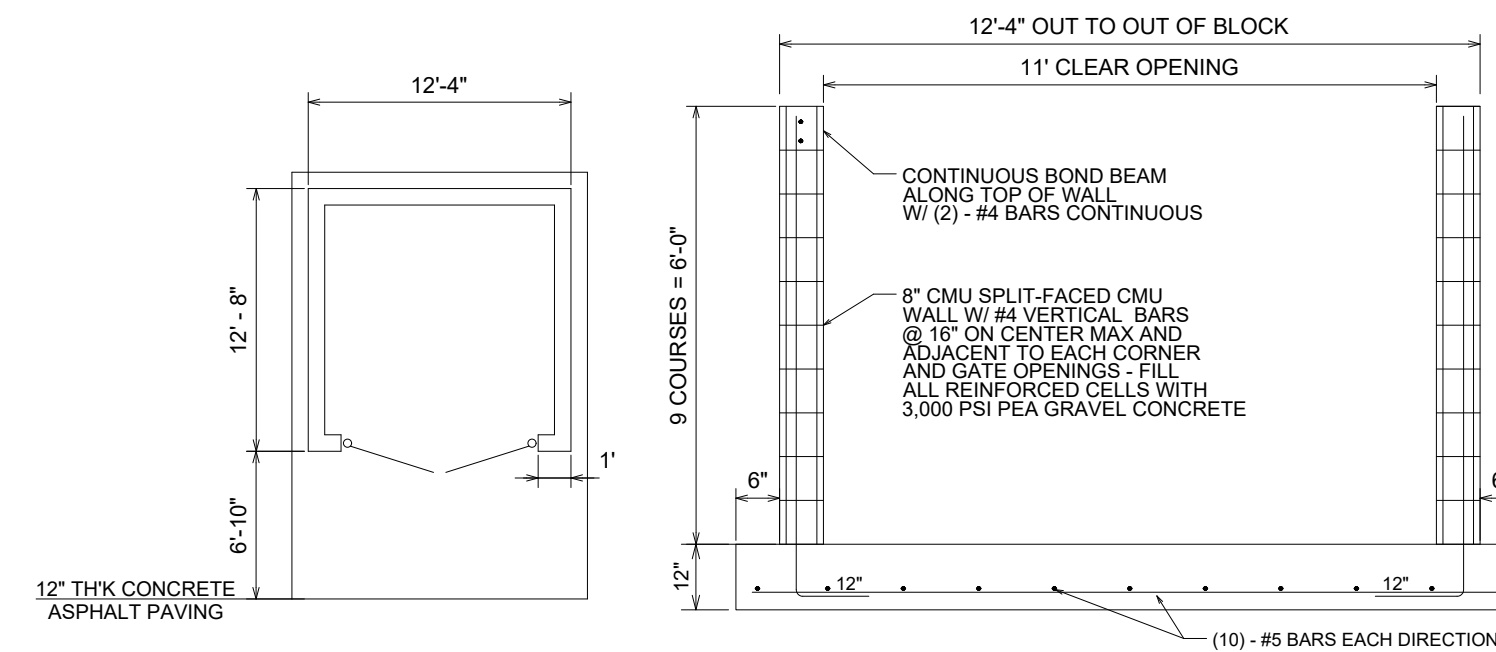
2'-0" CONCRETE CURB & GUTTER NOT TO SCALE



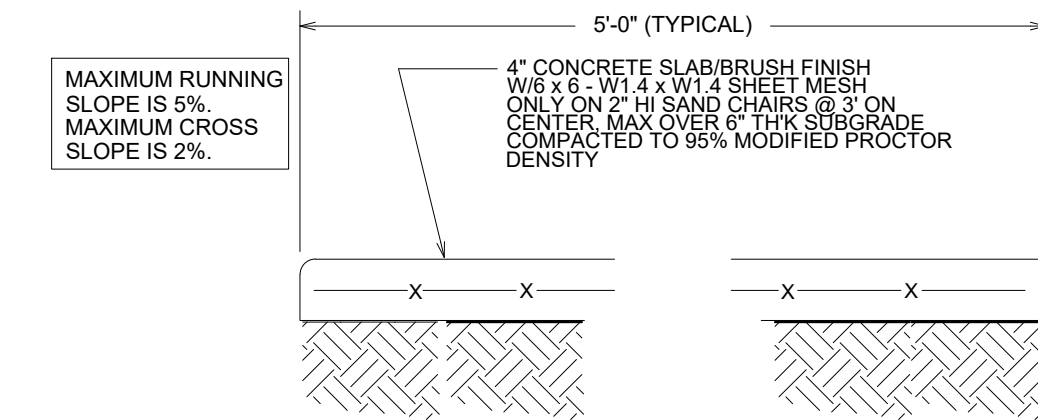
HMAC ASPHALT SURFACE COURSE NOT TO SCALE



CONCRETE FLUME DETAIL NOT TO SCALE

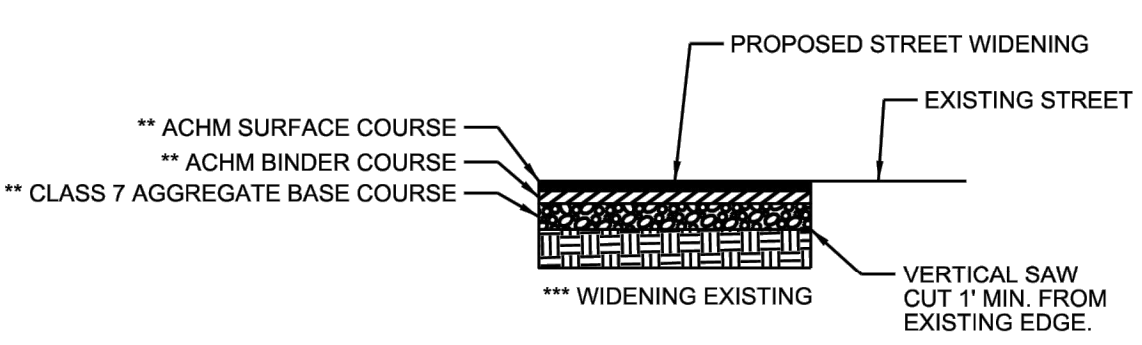
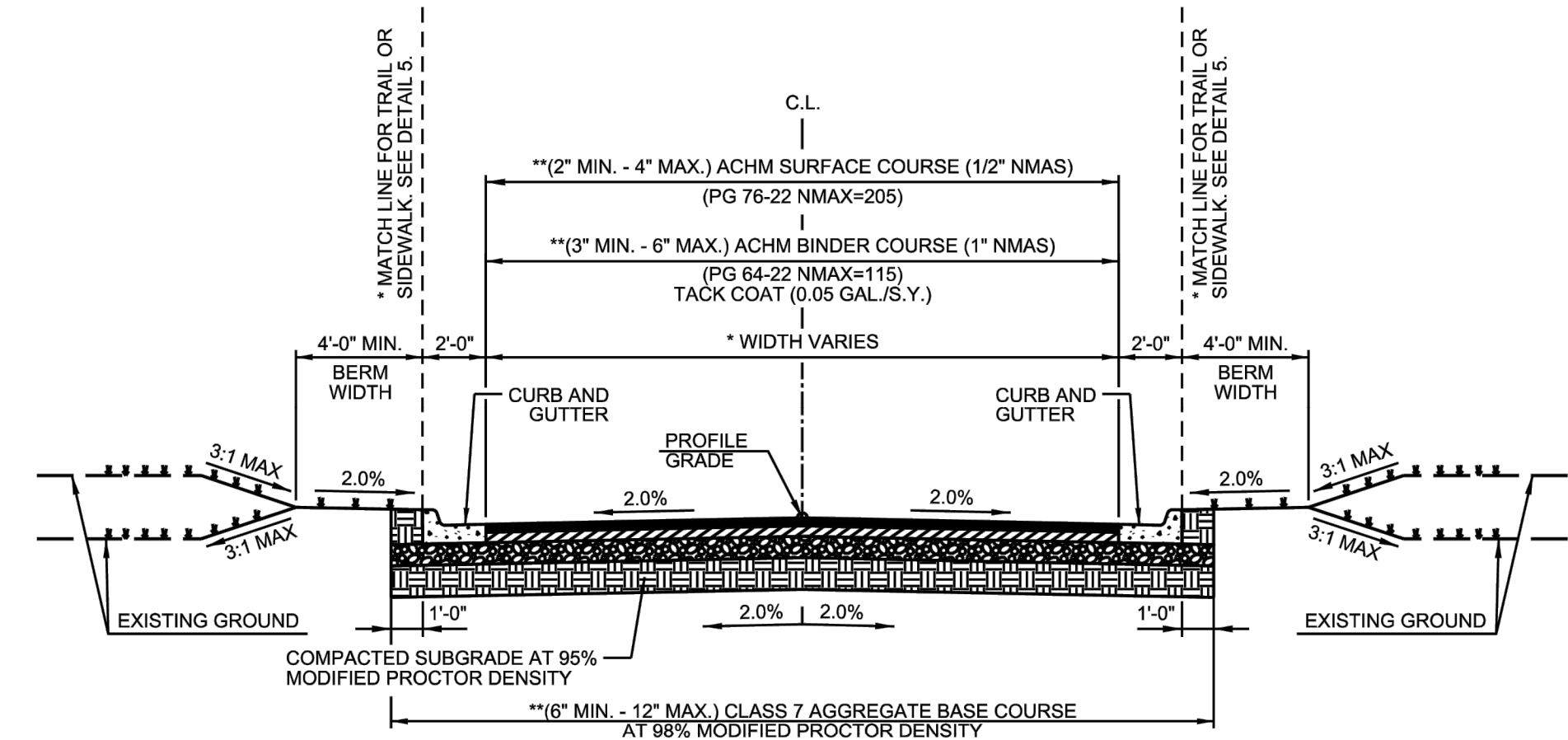


DUMPSTER PAD/ENCLOSURE DETAIL NOT TO SCALE



CONCRETE WALK SECTION NOT TO SCALE

NOTE: ALL SIDEWALK JOINTS TO BE STEEL TROWELED. ALL JOINT EDGES SHALL BE SPACED AT 5 FEET ON CENTER MAXIMUM IN ALL DIRECTIONS AND SHALL BE STEEL TROWELED ON A RADIUS NOT TO EXCEED ONE-HALF INCH.



- GENERAL NOTES**
- IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM MODIFIED DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT.
 - FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO DENSITY OF 90% MAXIMUM MODIFIED DENSITY.
 - CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.
 - ACHM BASE COURSE (4" MIN. - 12" MAX) (1 1/2" NMAS) MAY BE USED IF INCLUDED IN AN APPROVED PAVEMENT DESIGN.
- * CROSS SECTIONS AND RIGHT-OF-WAY SHALL ADHERE TO THE MINIMUM WIDTH REQUIREMENTS SHOWN IN THE CITY OF BRYANT MASTER TRANSPORTATION PLAN. THE DEVELOPMENT REVIEW COMMITTEE SHALL DETERMINE WHICH VERSION OF STREET CLASSIFICATION AND WHAT WIDTHS WILL BE REQUIRED.
- ** THICKNESS TO BE DETERMINED BY PAVEMENT DESIGN IN ACCORDANCE WITH SECTION 5.0 OF THE MINIMUM STANDARD SPECIFICATIONS FOR STREETS.
- *** PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE STANDARDS.

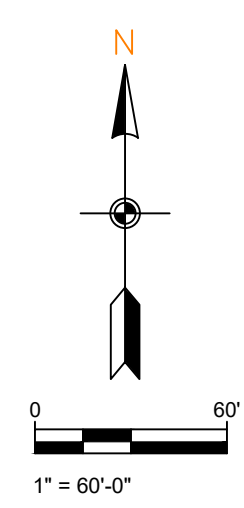
CITY OF BRYANT

**TYPICAL SECTION
MINOR ARTERIAL**

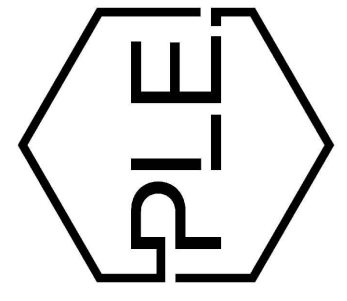
ISSUE DATE
AUGUST 2021

REVISION DATE

DETAIL 1

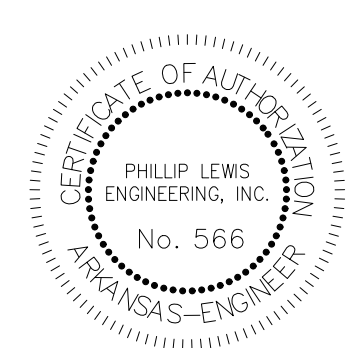


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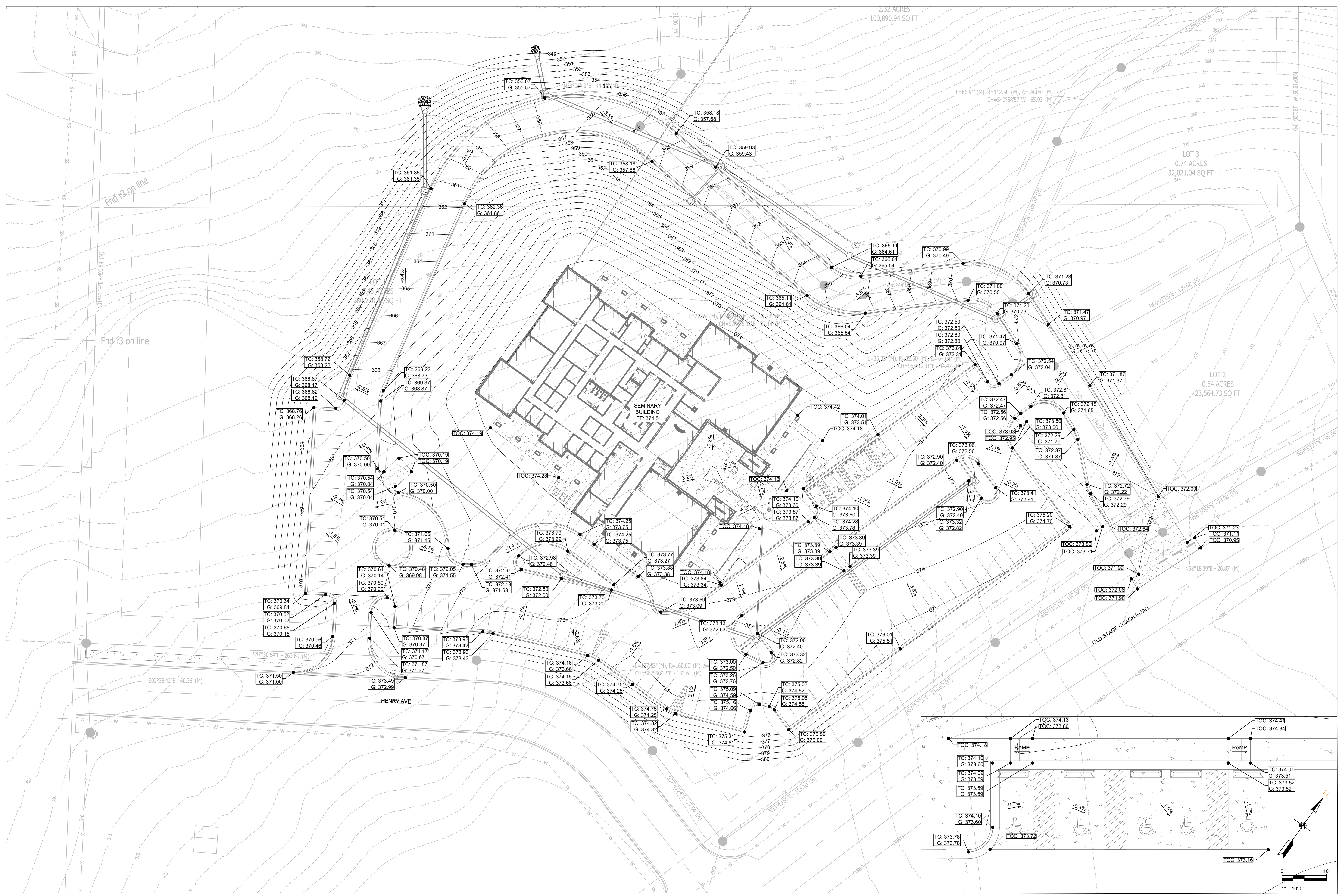
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**SITE
DETAILS**

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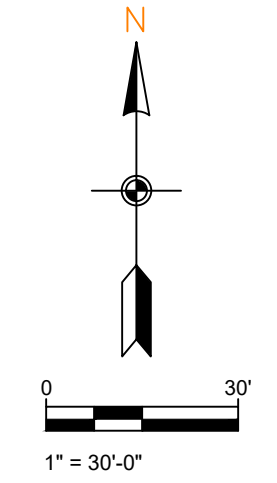
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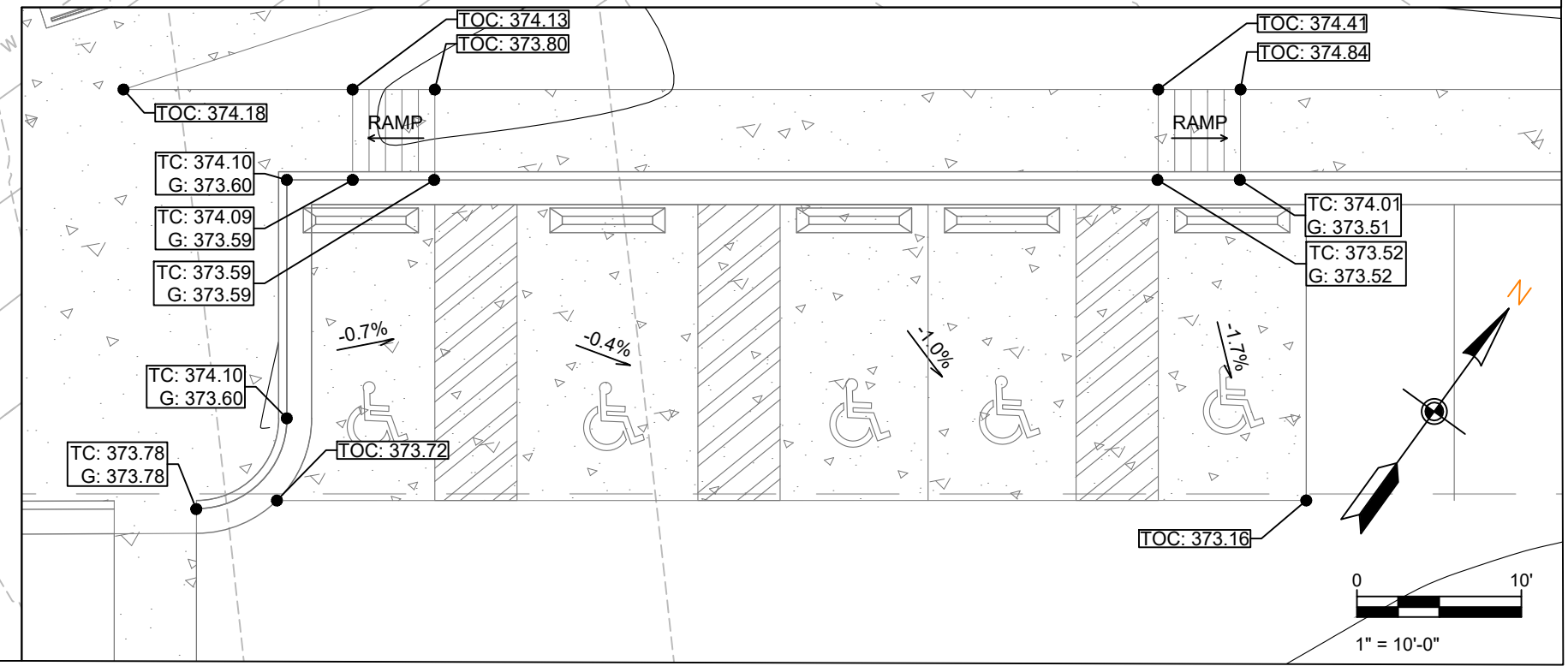
GRADING PLAN

TC = TOP OF CURB ELEVATION
 G = GUTTER ELEVATION
 TOC = TOP OF CONCRETE ELEVATION
 FG = FINAL GRADE ELEVATION
 TP = TOP OF PAVEMENT ELEVATION
 EG = EXISTING GRADE ELEVATION

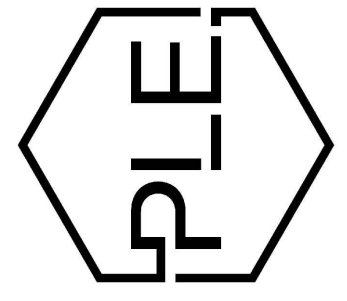
SCALE 1" = 30'



ADA PARKING STALLS

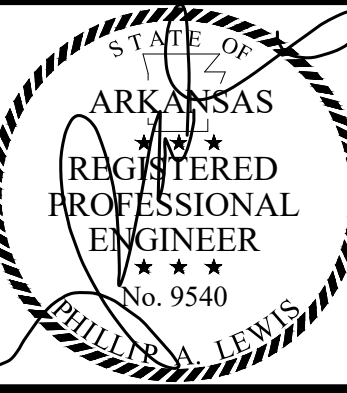
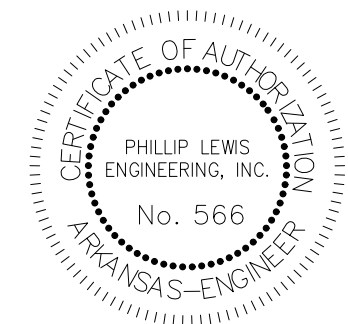


SCALE 1" = 10'-0"



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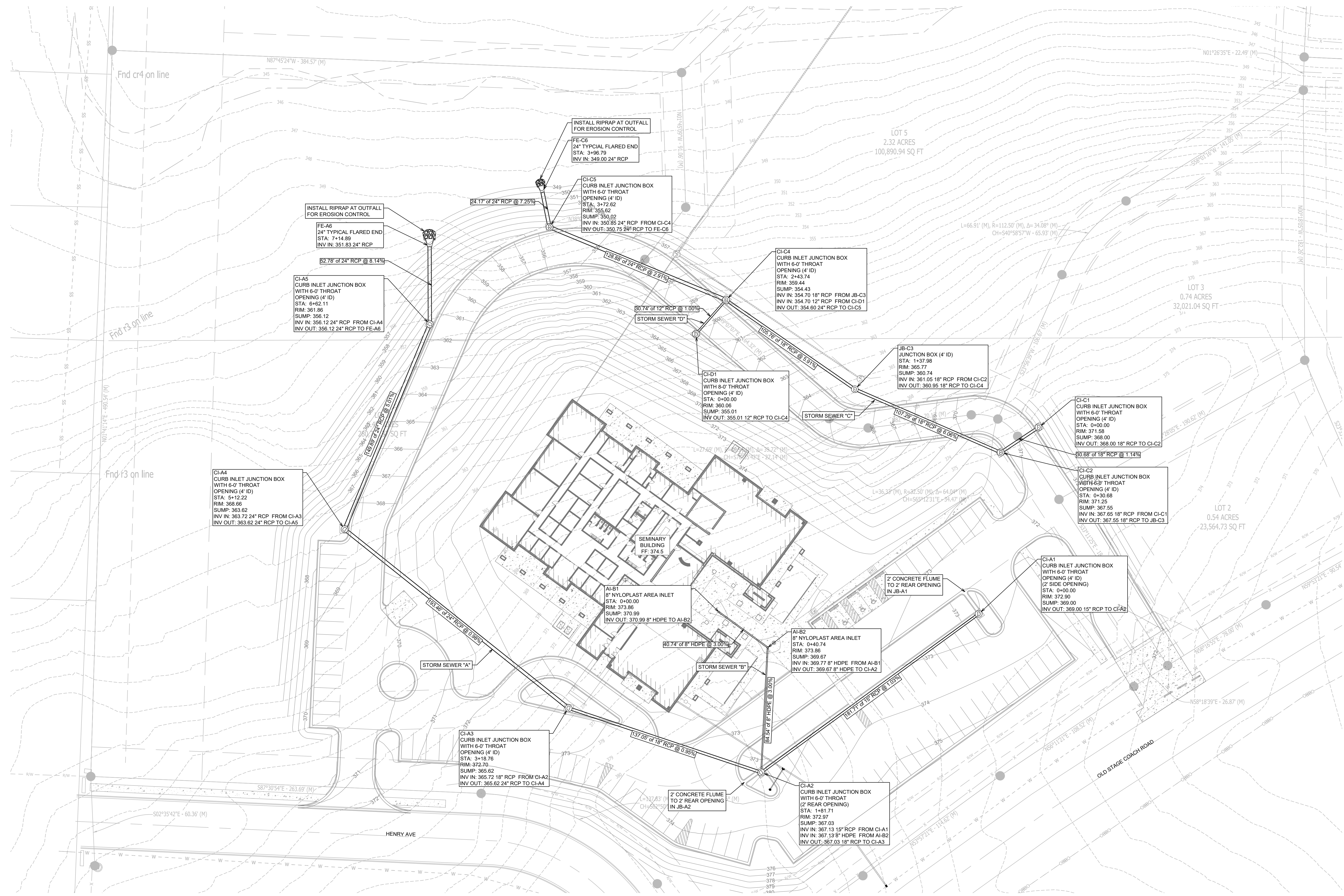
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GRADING PLAN

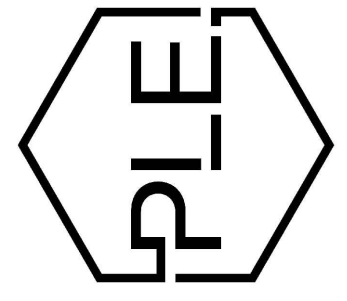
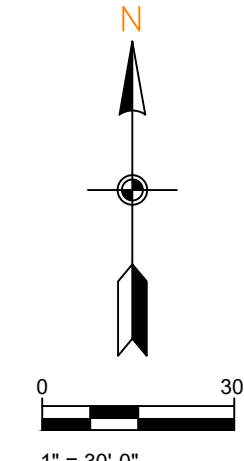
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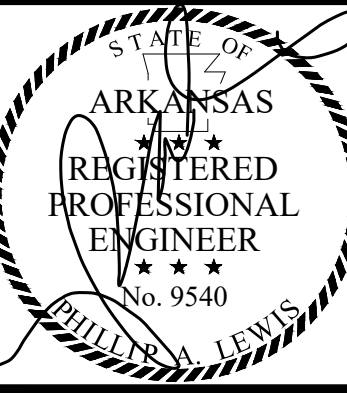
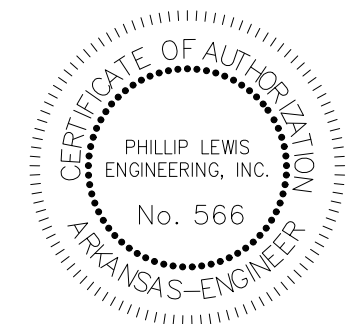
STORM SEWER PLAN

SCALE 1" = 30'



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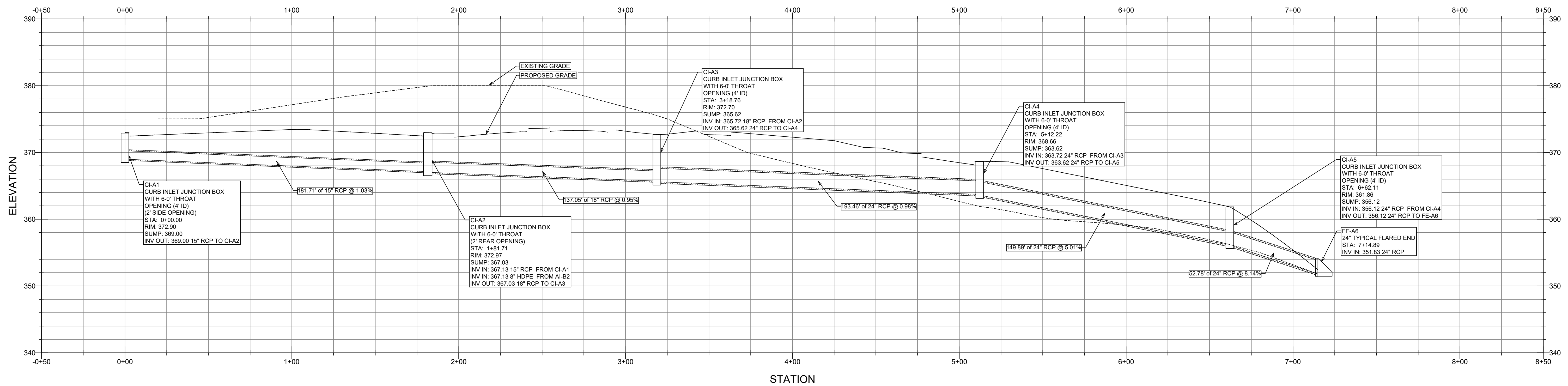
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STORM SEWER PLAN

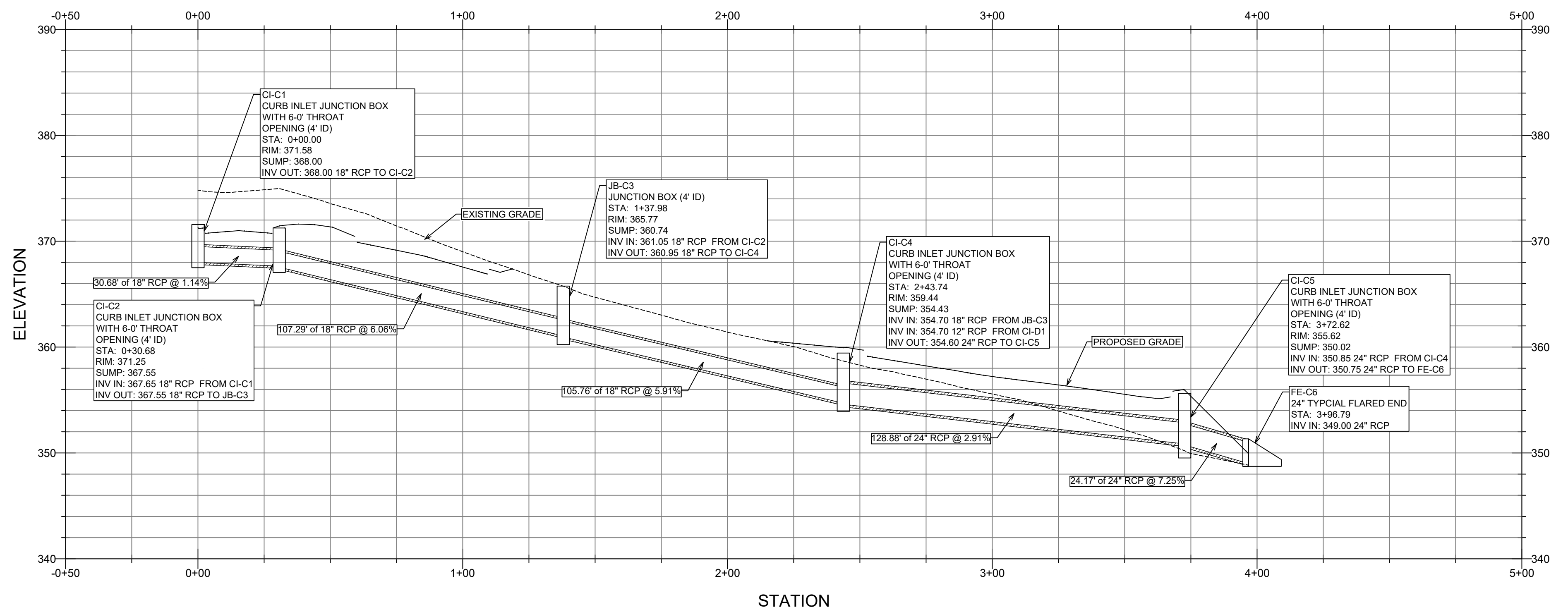
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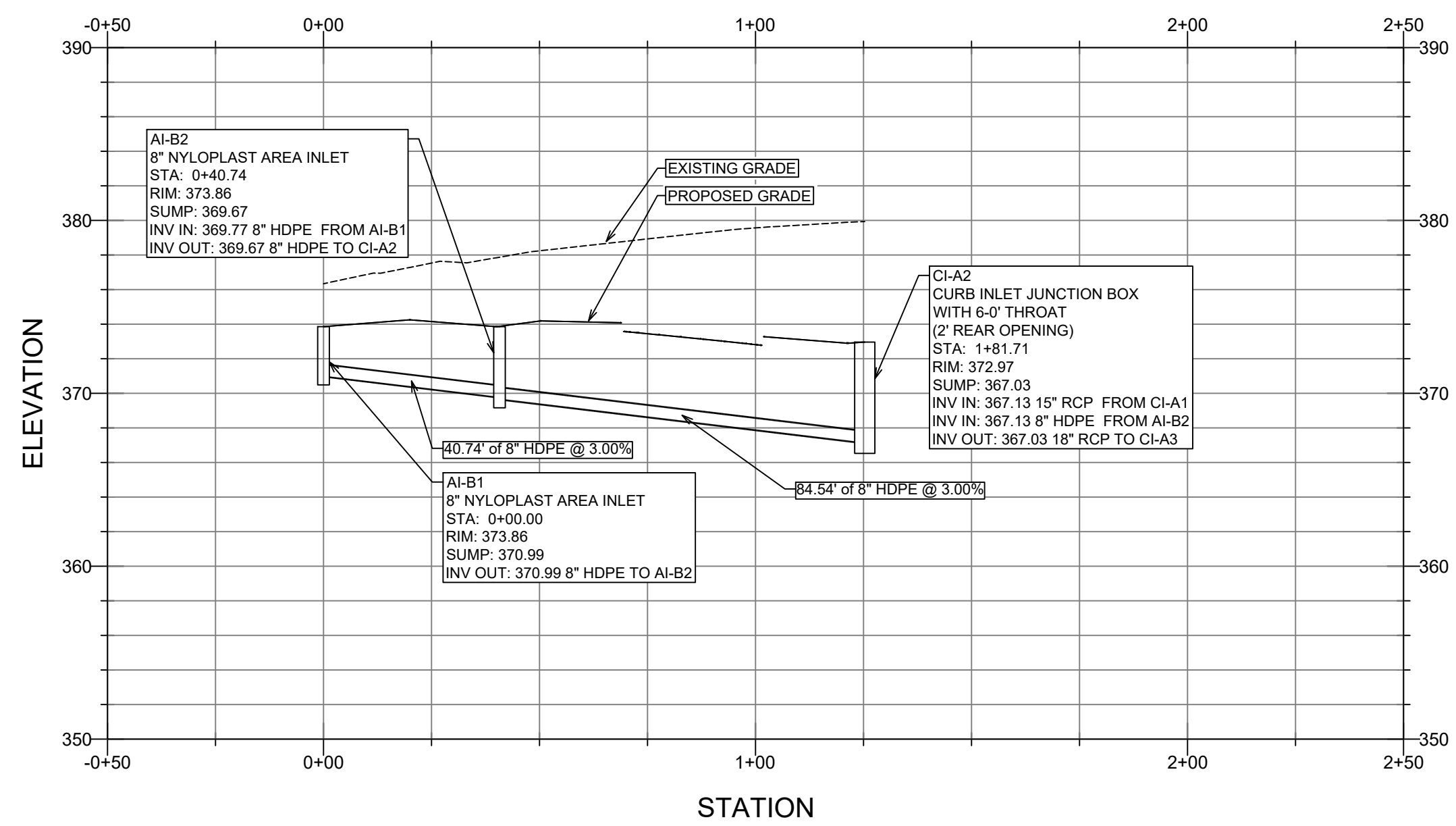
STORM SEWER A



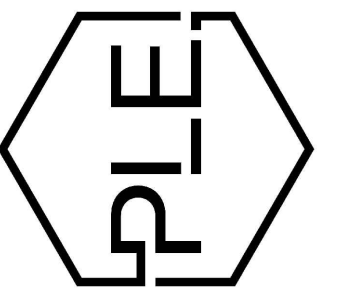
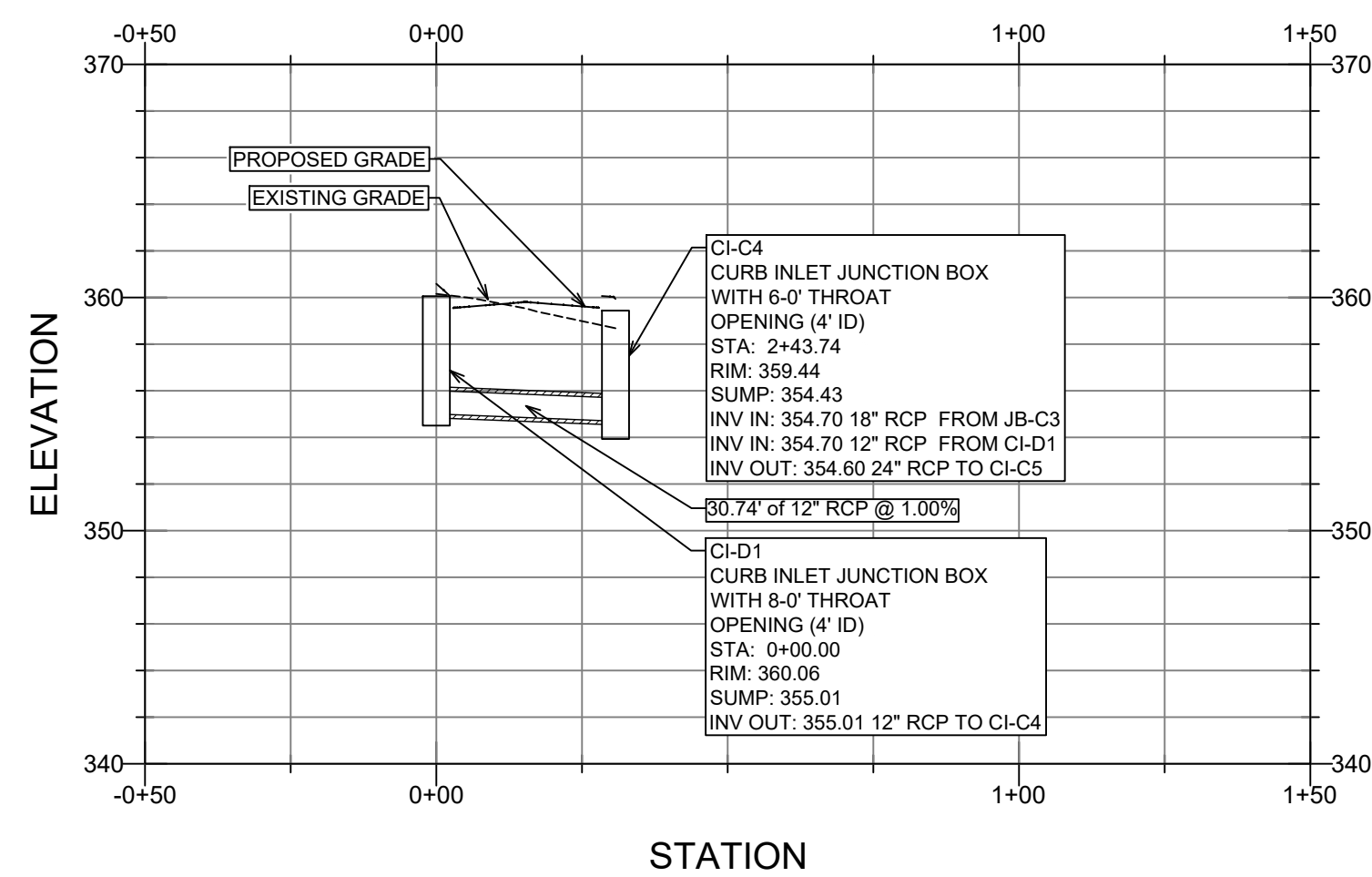
STORM SEWER C



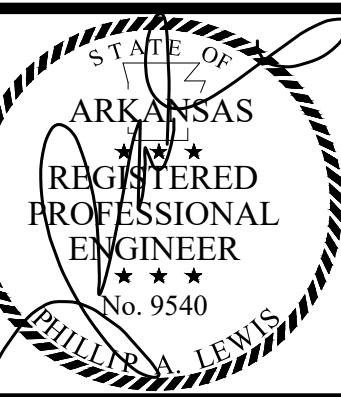
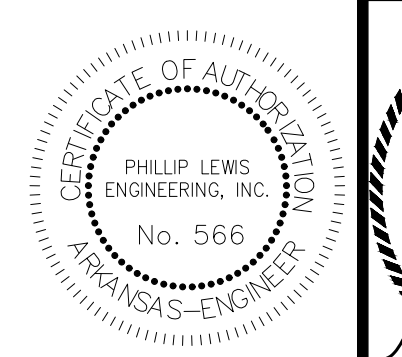
STORM SEWER B



STORM SEWER D



REVISION:



PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:

**STORM
SEWER
PROFILES**

SHEET NUMBER:

C1.6



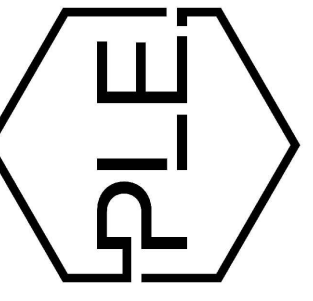
UTILITY PLAN

SCALE 1" = 50'

GENERAL CONSTRUCTION NOTES

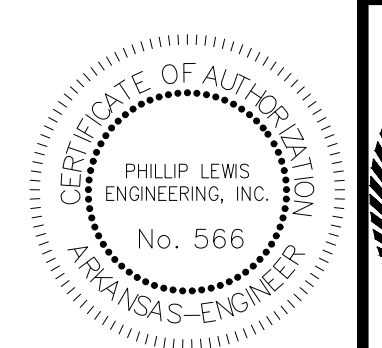
- A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
- C. THE DUTY OF THE LOCAL UTILITY PROVIDER TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.
- E. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- F. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- G. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- H. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY THE LOCAL UTILITY PROVIDER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.
- I. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.
- J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840



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BRYANT, ARKANSAS



PROJECT NUMBER:

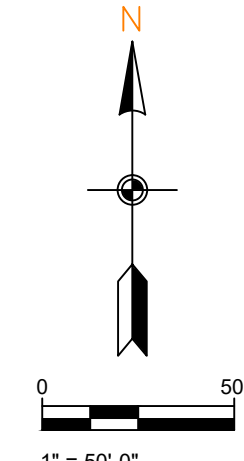
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10-31-2024

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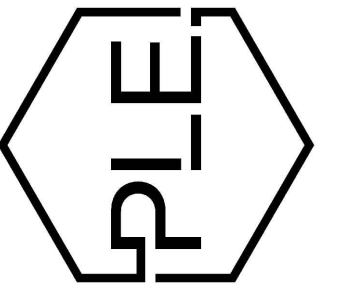
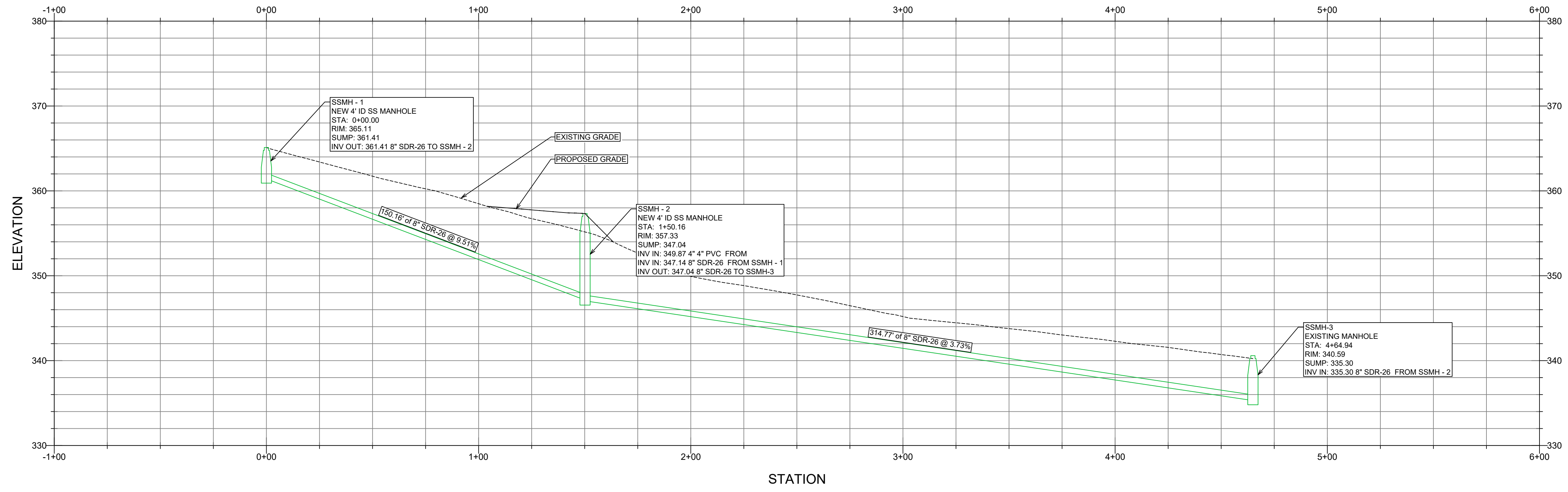
UTILITY PLAN

SHEET NUMBER:

C1.7

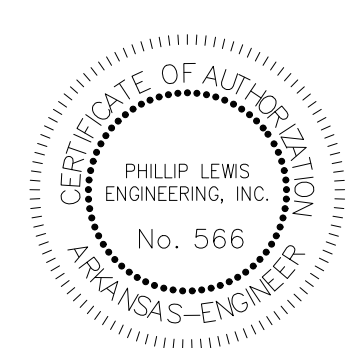


SANITARY SEWER



REVISION:

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 HIGHWAY 5
 BRYANT, ARKANSAS



PROJECT NUMBER:

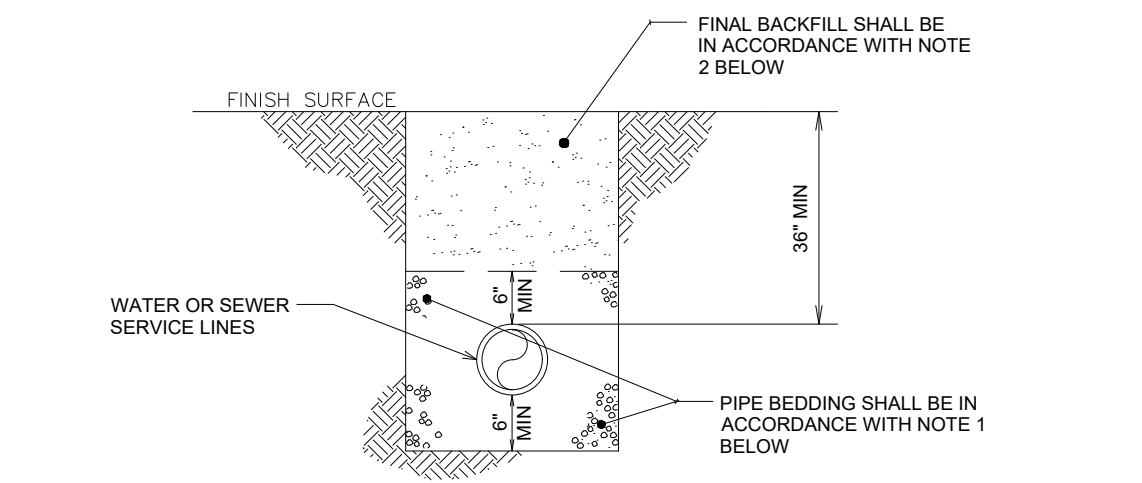
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 10-09-2024

PAGE TITLE:

SANITARY SEWER PROFILE

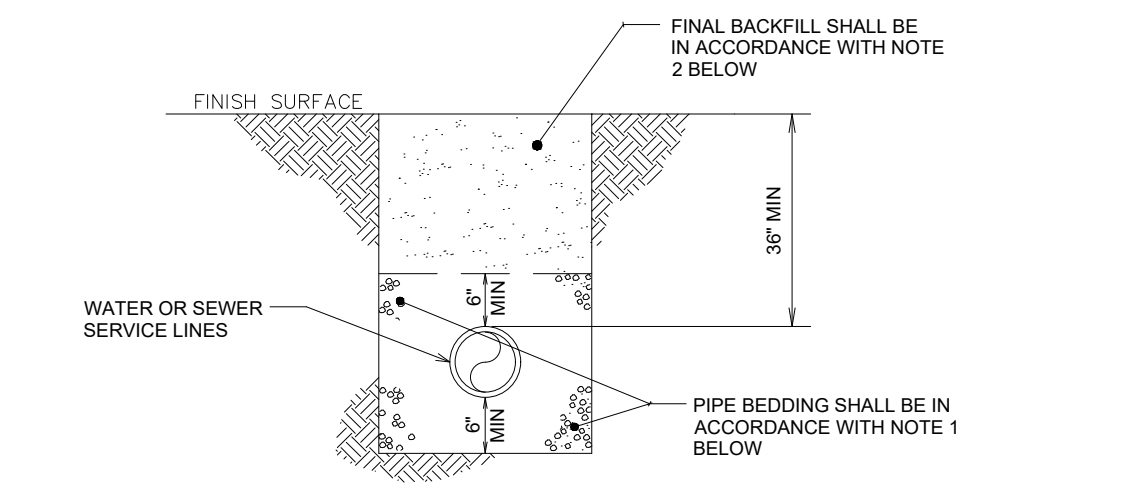
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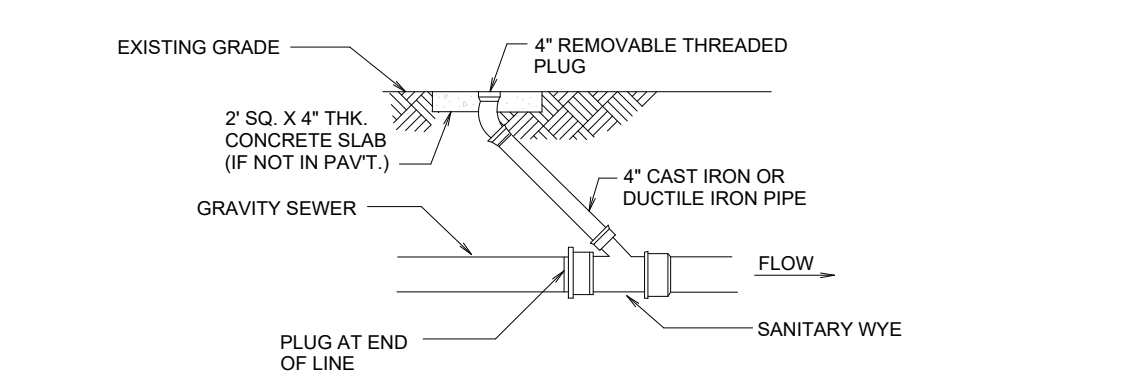
GAS LINE BEDDING DETAIL

- NOTES:
- BEDDING SHALL BE "GRIT" PER ASTM 2774 OR ASTM D448 SIZE 67 A MINIMUM OF 6" ALL AROUND PIPE.
 - BEDDING SHALL BE CLEAN SAND A MINIMUM OF 6" ALL AROUND PIPE.
 - INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR. ALL BACKFILL UNDER PAVED AREAS SHALL BE CLASS 7 CRUSHED STONE (SB-2) COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - ALL MATERIALS CLASSIFIED IN ACCORDANCE WITH ASTM D2321-89.
 - ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 6" LIFTS IN ACCORDANCE WITH ASTM D698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED TO NEAR OPTIMUM MOISTURE CONTENT.
 - FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS, AND ROCKS LARGER THAN 3".
 - ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

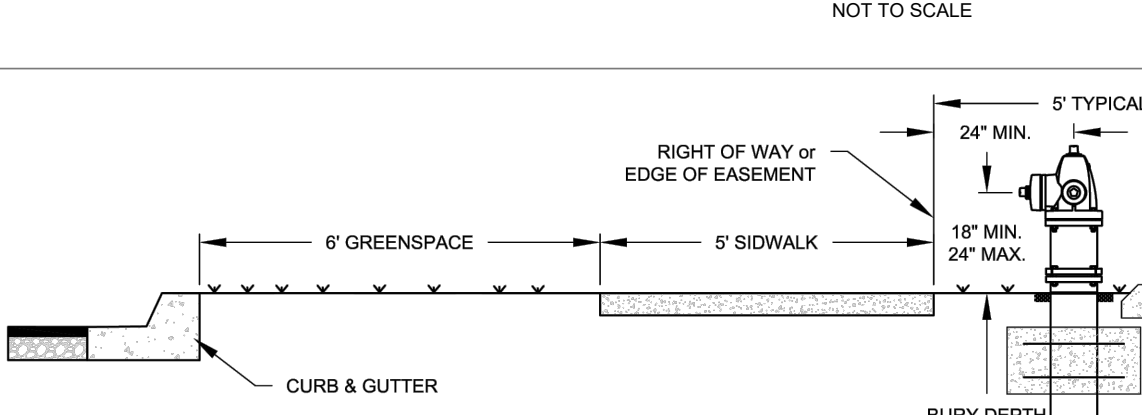


WATER AND SEWER LINES BEDDING DETAIL

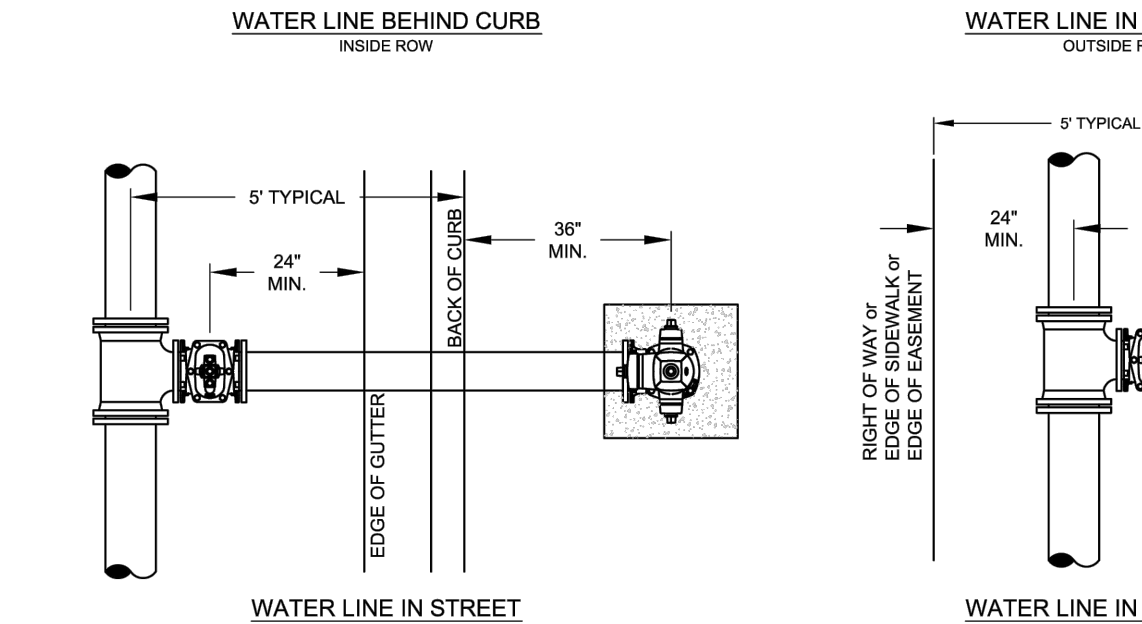
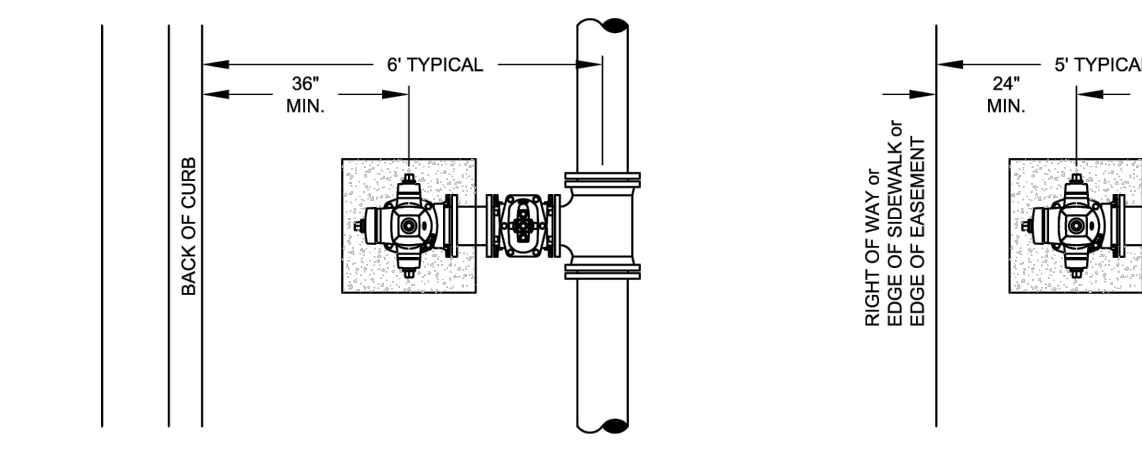
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THROUGH FLOW CLEANOUT

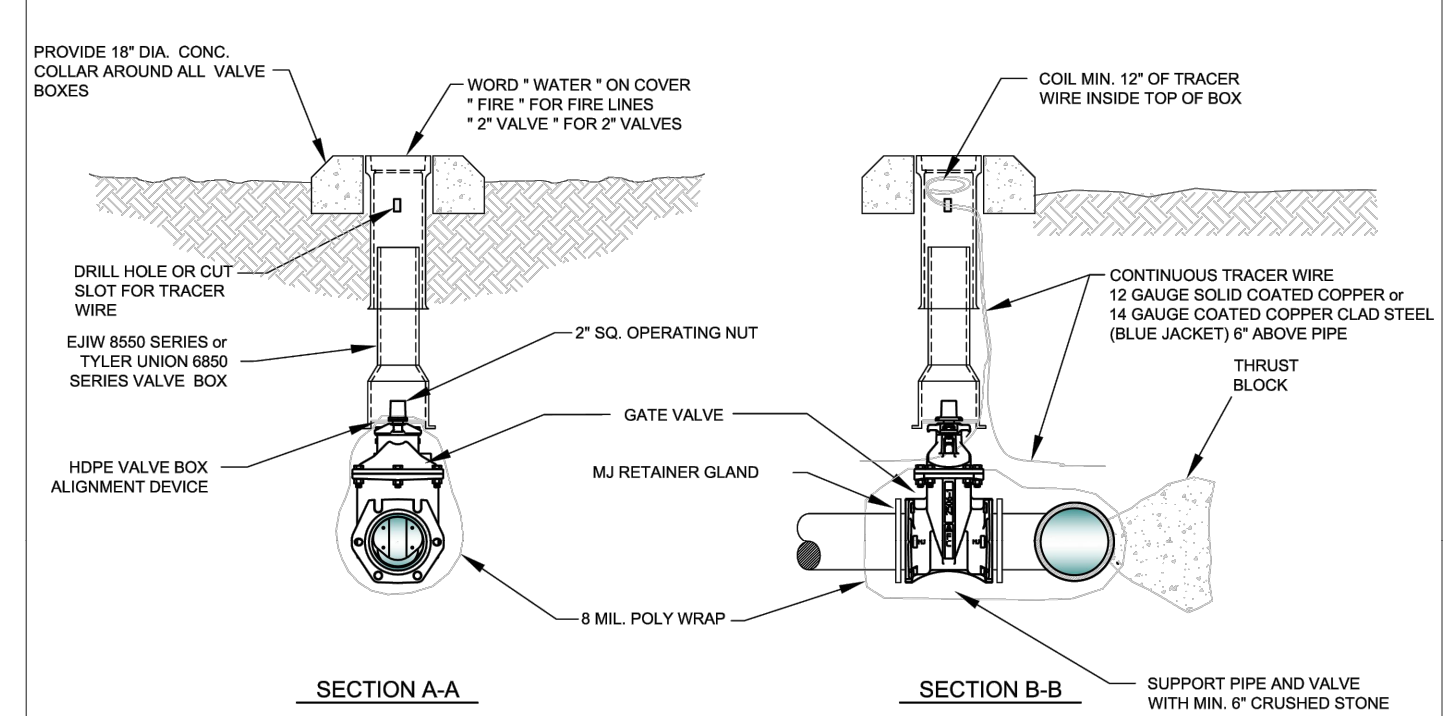
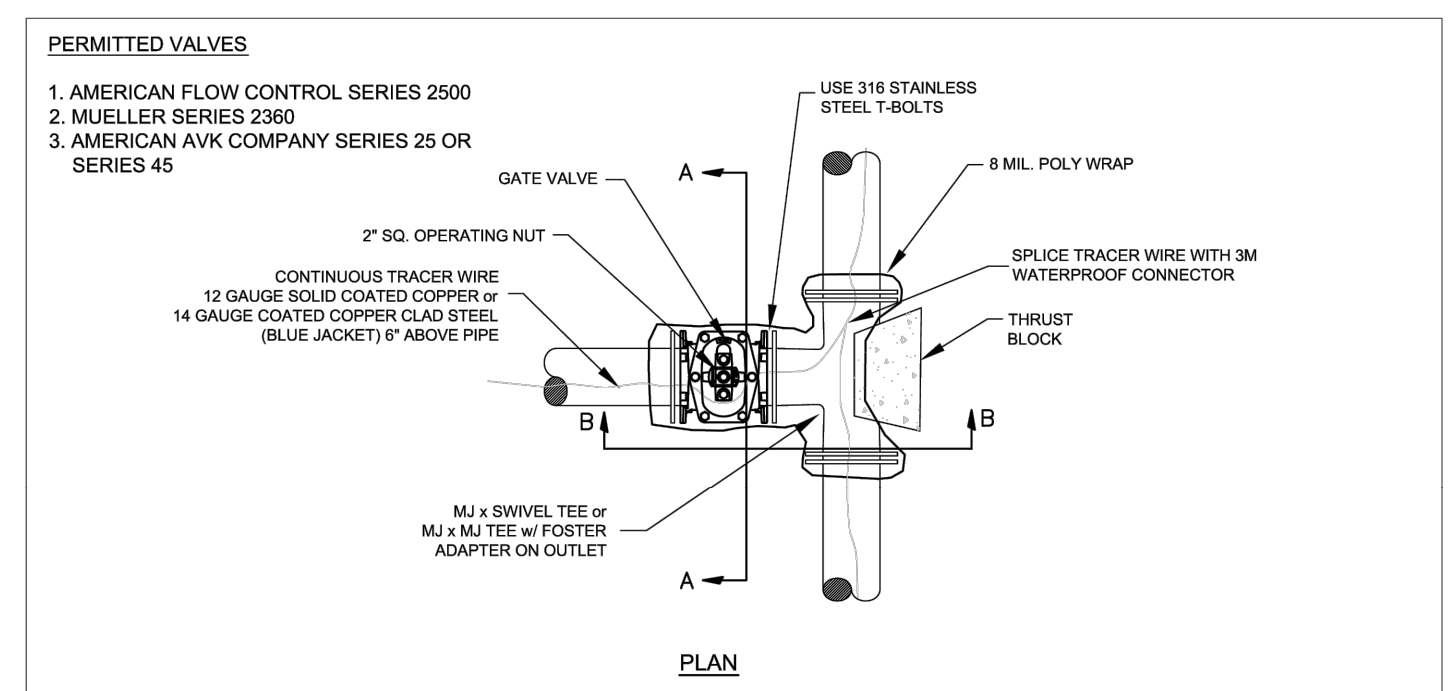


- NOTES:
- THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
 - FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
 - NO MORE THAN ONE EXTENSION PER HYDRANT.
 - IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
 - DO NOT COVER UP WEEP HOLE WITH CONCRETE.
 - MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
 - AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



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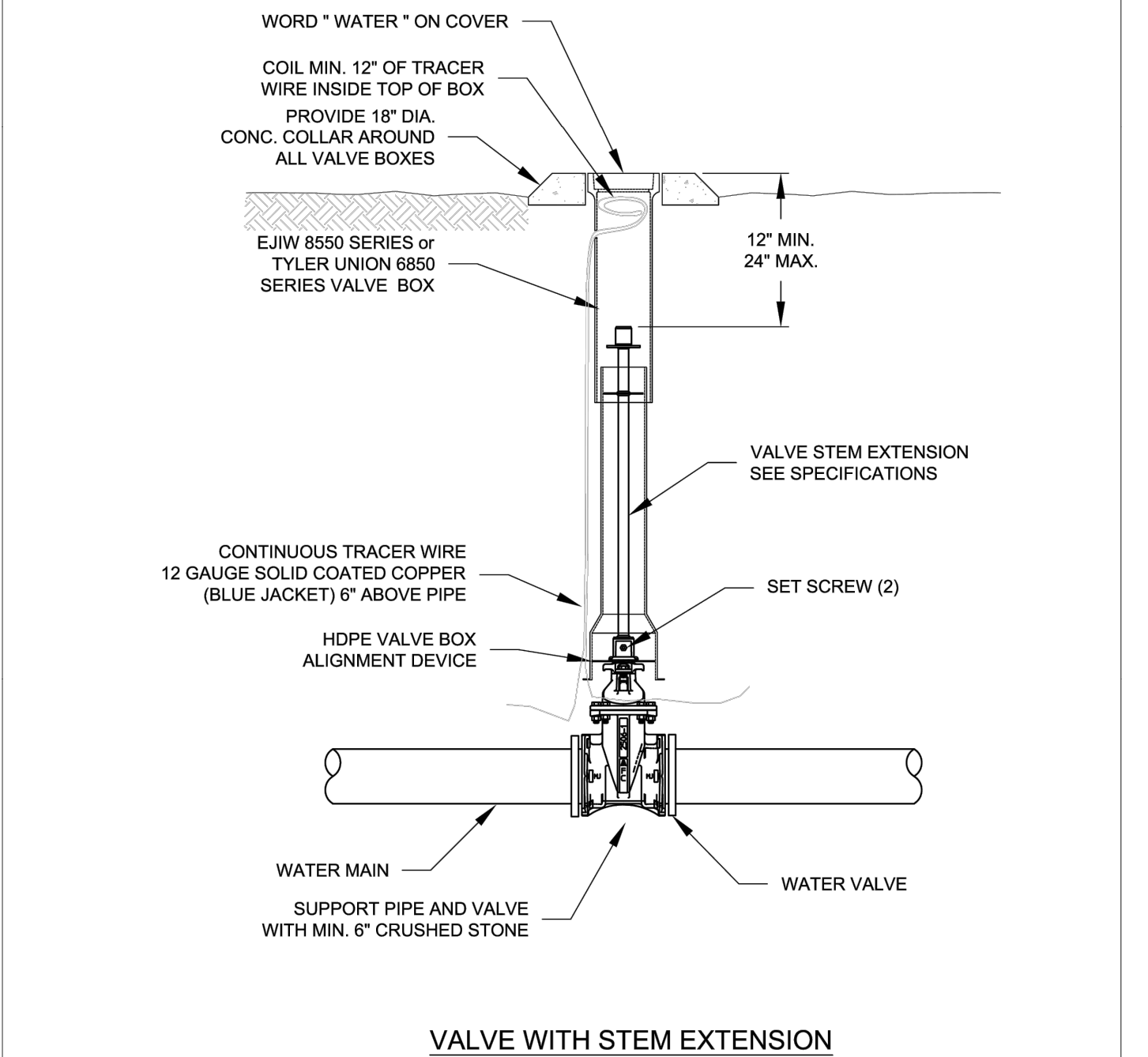
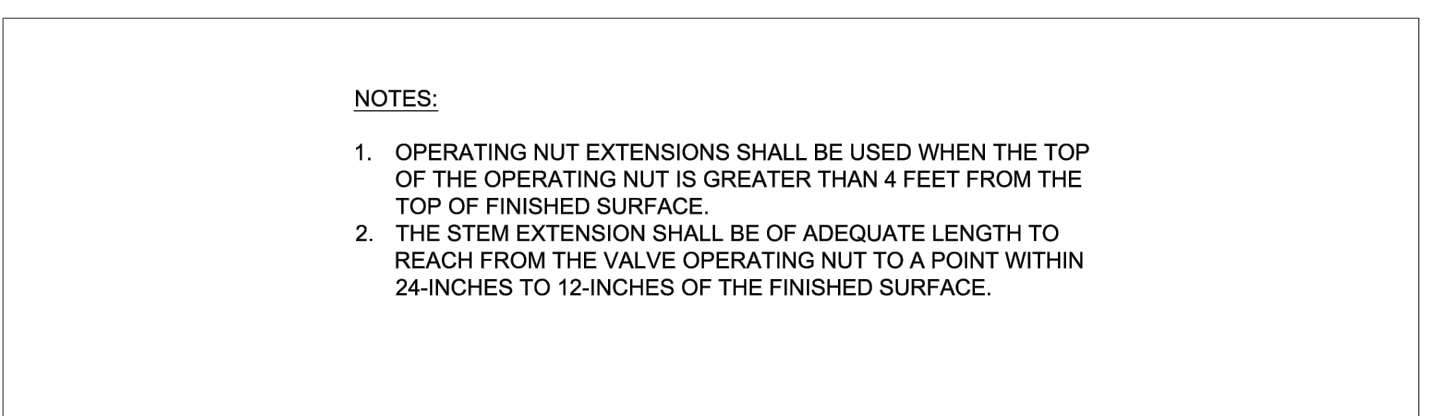
WATER DETAILS
 DESCRIPTION: FIRE HYDRANT PLACEMENT
 DATE: APRIL 2015
 SHEET: W9



- NOTES:
- ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
 - ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
 - IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

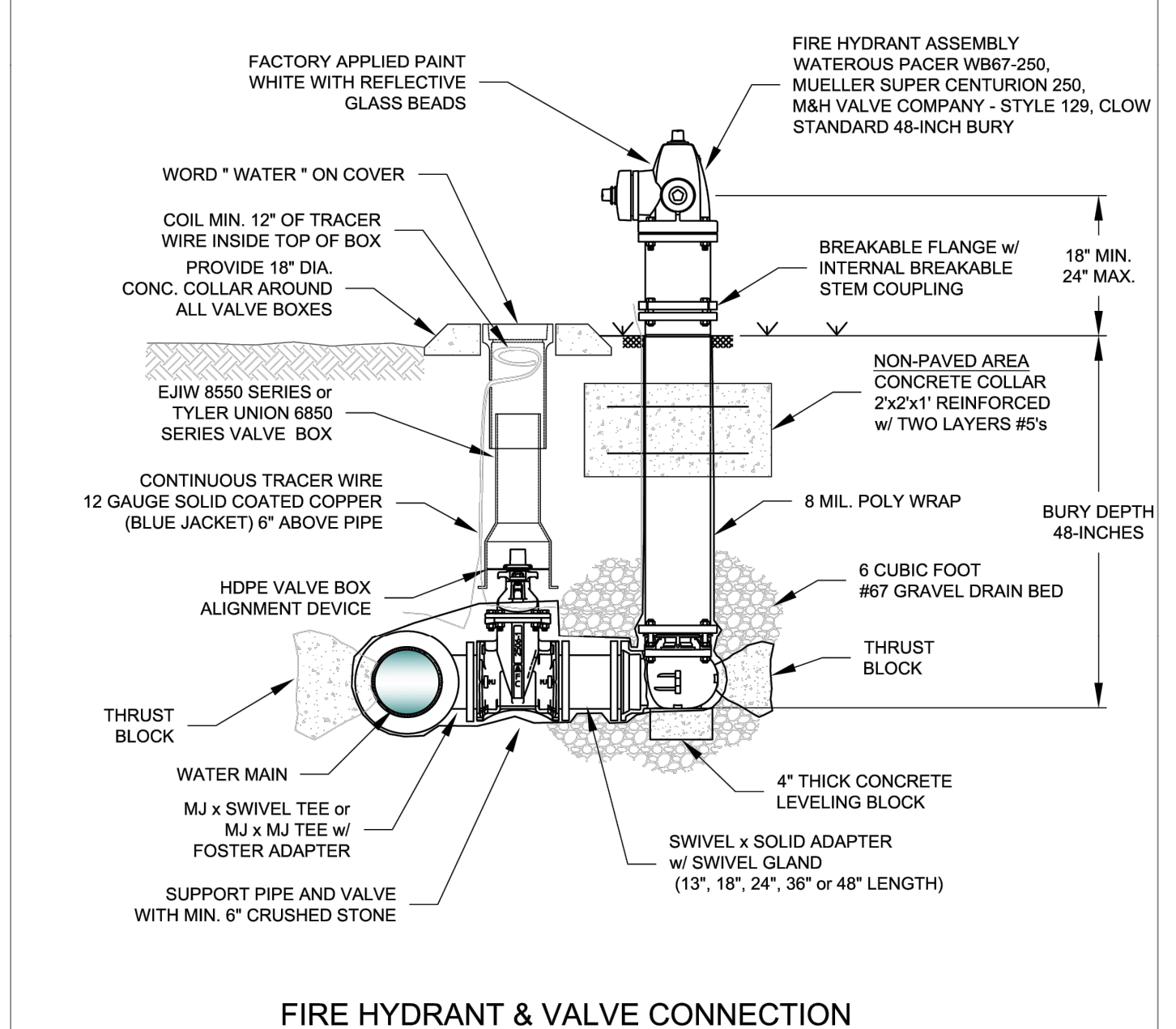
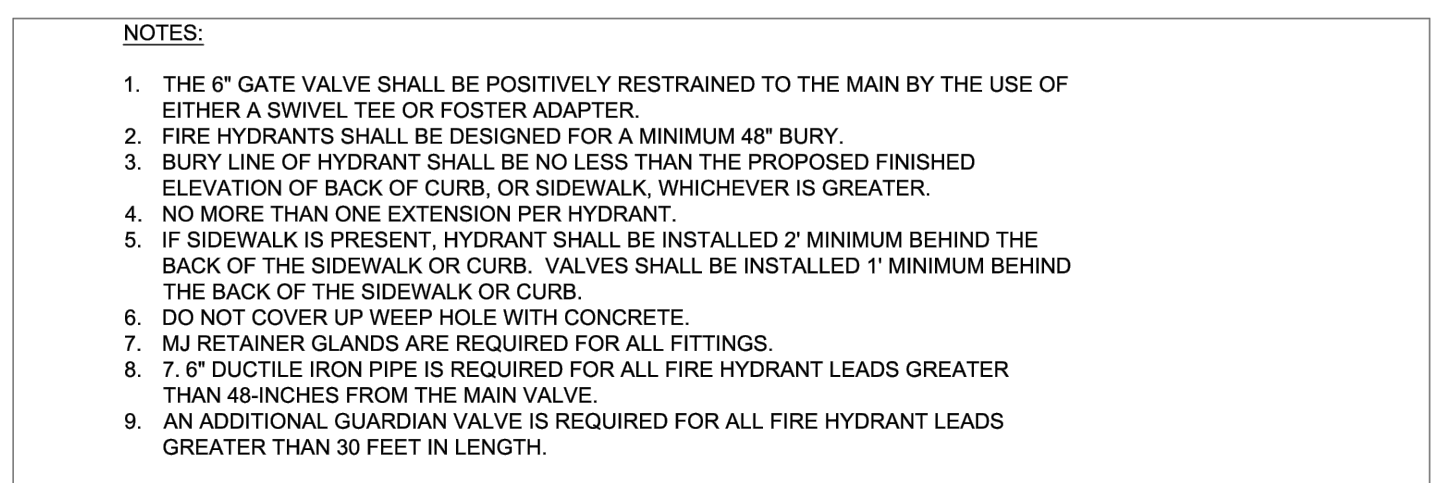
CITY OF BRYANT, AR
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WATER DETAILS
 DESCRIPTION: GATE VALVE
 DATE: APRIL 2015
 SHEET: W4



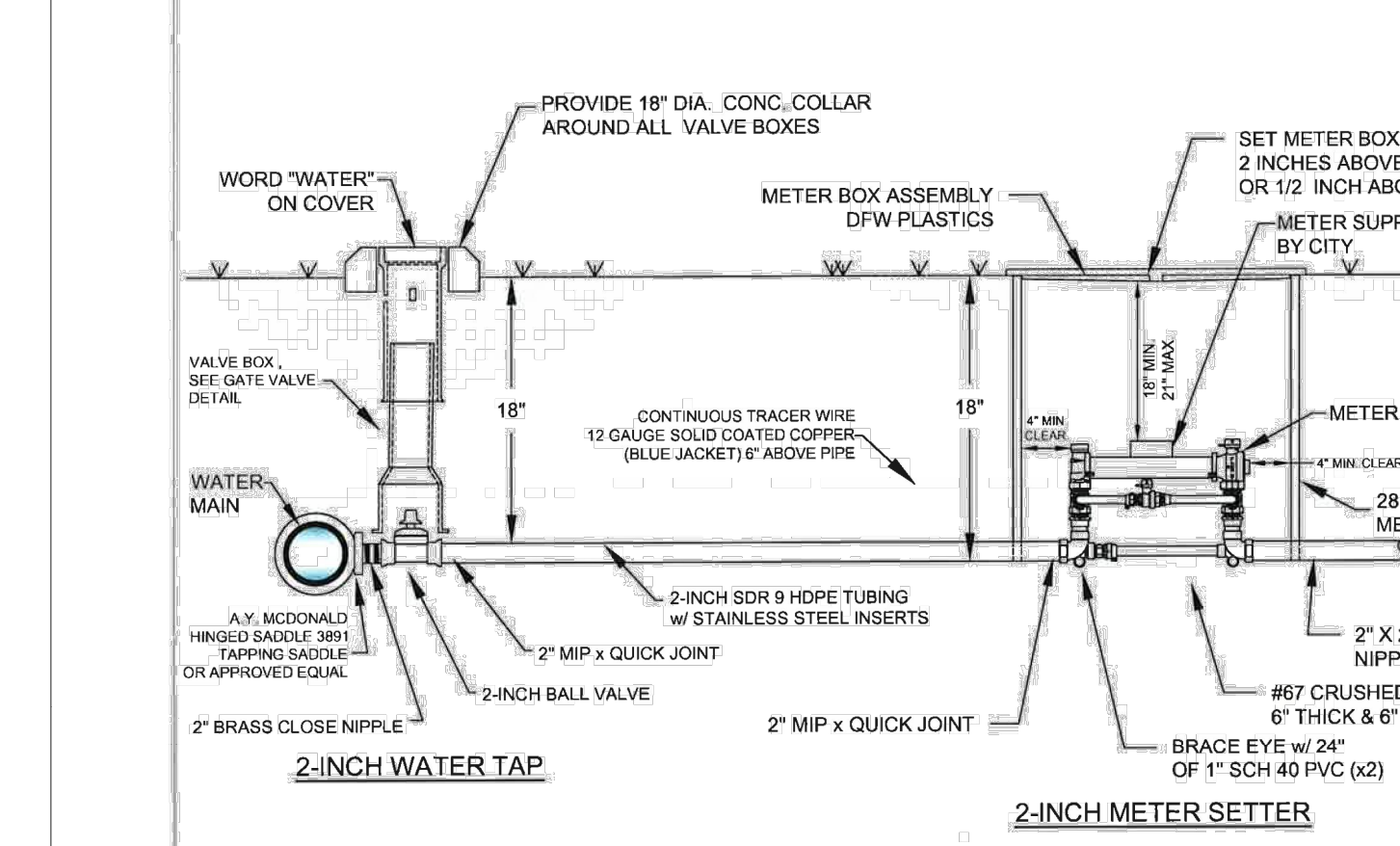
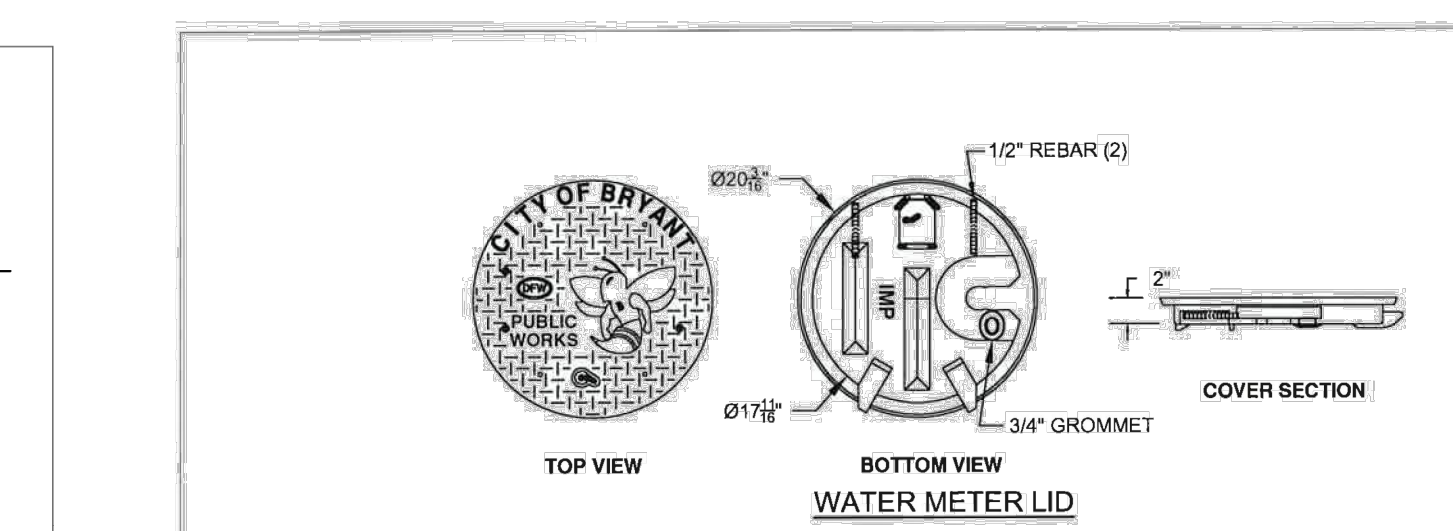
CITY OF BRYANT, AR
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WATER DETAILS
 DESCRIPTION: VALVE STEM EXTENSION
 DATE: APRIL 2015
 SHEET: W7



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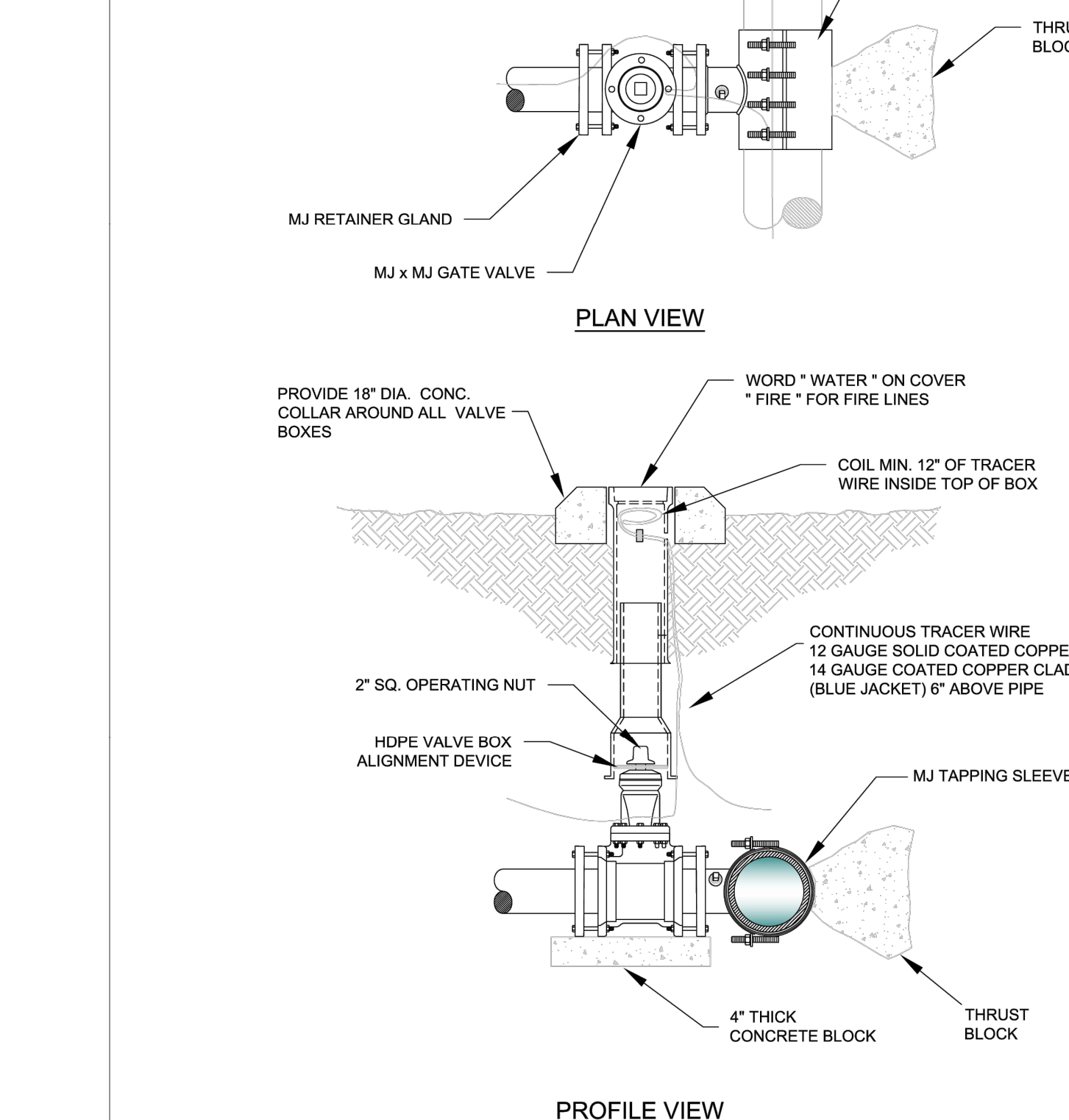
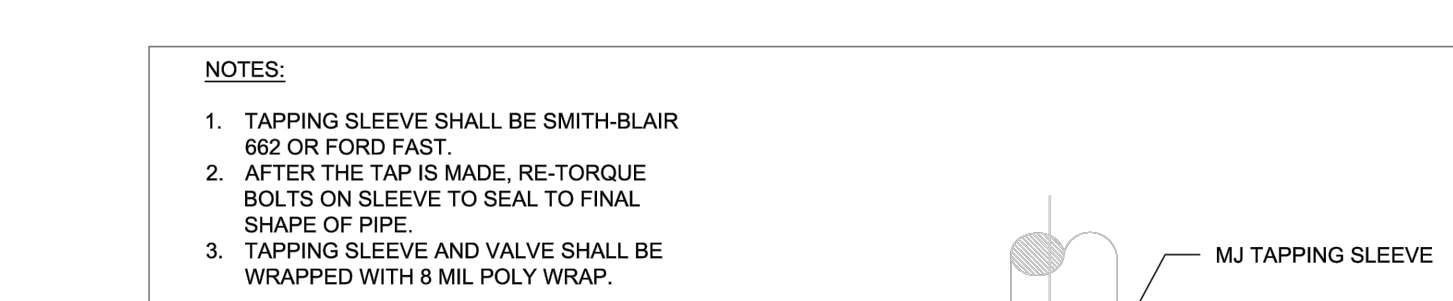
WATER DETAILS
 DESCRIPTION: FIRE HYDRANT AND VALVE CONNECTION
 DATE: APRIL 2015
 SHEET: W8



- NOTES:
- COORDINATE INSTALLATION AND CONFIGURATION OF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY.
 - ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
 - SUPPORT METER INSTALLATION WITH 1 1/2" x 24" SCH40 PVC THROUGH EACH BRACE EYE.

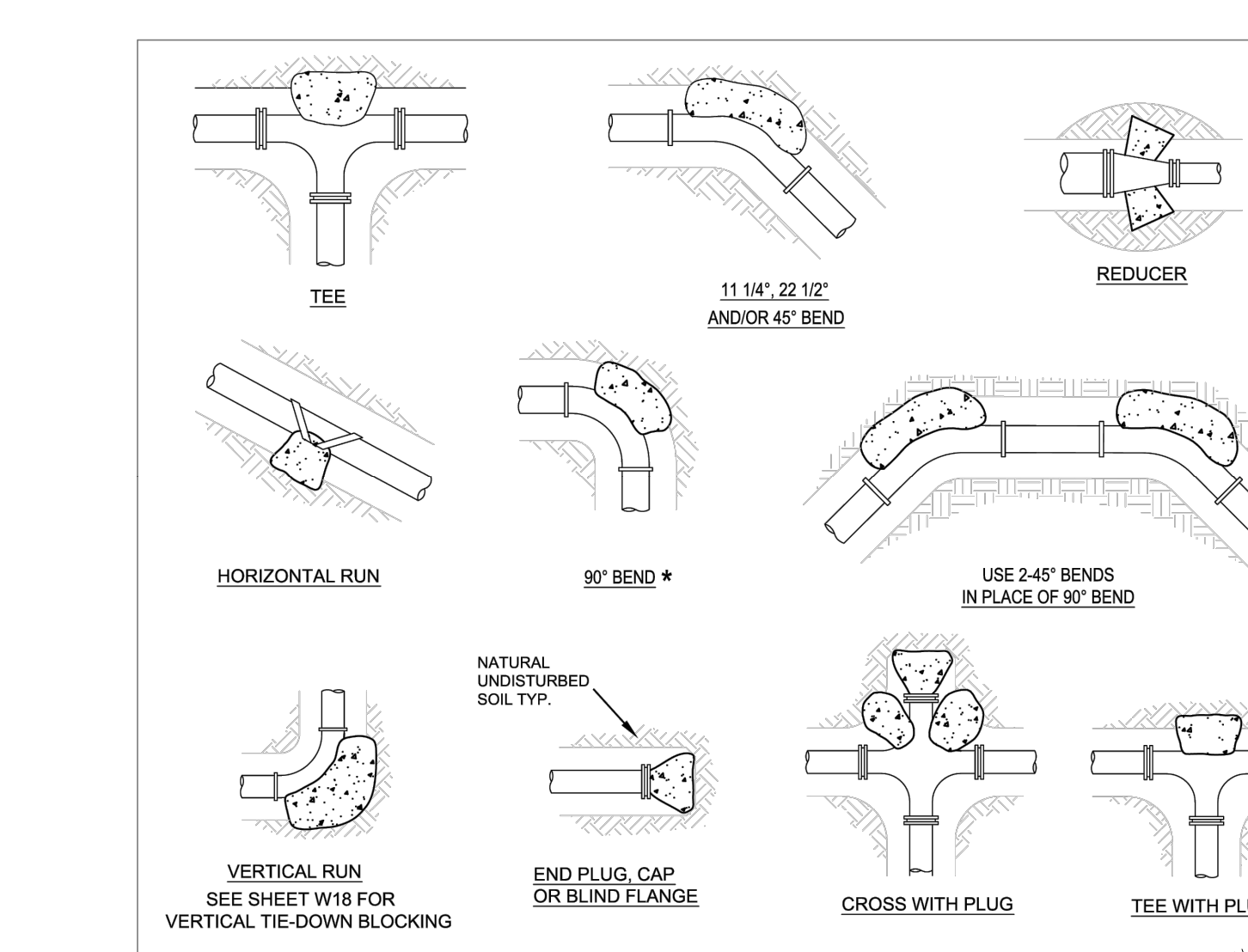
CITY OF BRYANT, AR
 WATER UTILITIES
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 BRYANT, AR
 PHONE: (501) 943-0988

WATER DETAILS
 DESCRIPTION: 2" WATER METER
 DATE: APRIL 2015
 SHEET: W12



CITY OF BRYANT, AR
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 PHONE: (501) 943-0988

WATER DETAILS
 DESCRIPTION: TAPPING SLEEVE AND VALVE
 DATE: APRIL 2015
 SHEET: W13



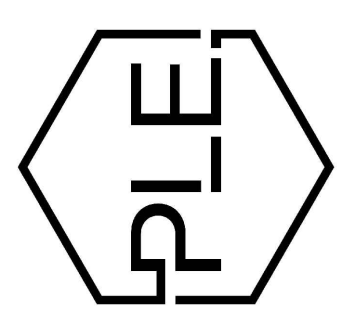
THRUST BLOCK SCHEDULE
 (2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

FITTING SIZE	BEARING AREA IN SQ. FT. (HORIZONTAL BENDS)			VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)		
	45°	90°	114°	45°	90°	114°
2, 3, 4	1.9	2.7	1.4	0.7	0.4	2.3
6	5.6	7.9	4.3	2.2	1.1	6
8	8.8	11.8	6.5	3.3	1.6	8
10	12.1	16.5	9.1	4.5	2.2	10
12	15.4	21.1	11.8	5.7	2.8	12
14	18.7	25.7	14.5	6.9	3.4	14
16	22.0	30.4	17.2	8.1	4.0	16
18	25.3	35.0	19.9	9.3	4.6	18
20	28.6	39.7	22.6	10.5	5.2	20
24	35.4	48.4	28.1	12.9	6.4	24

- THRUST BLOCK NOTES:
- CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
 - ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
 - WRAP JOINTS IN 8 MIL "POLYETHYLENE" BEFORE PLACING CONCRETE.
 - BEARING AREA SHOWN IN TABLE IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 PSI PLUS 100 PSI WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
 - MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
 - USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
 - ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
 - ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/ASTM 116.
 - UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

CITY OF BRYANT, AR
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WATER DETAILS
 DESCRIPTION: THRUST BLOCKING
 DATE: APRIL 2015
 SHEET: W16



REVISION:

PROJECT NUMBER:
 SHEET ISSUE DATE:
 10-31-2024
 PAGE TITLE:
 UTILITY DETAILS
 SHEET NUMBER:
 C1.9

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 BRYANT, ARKANSAS

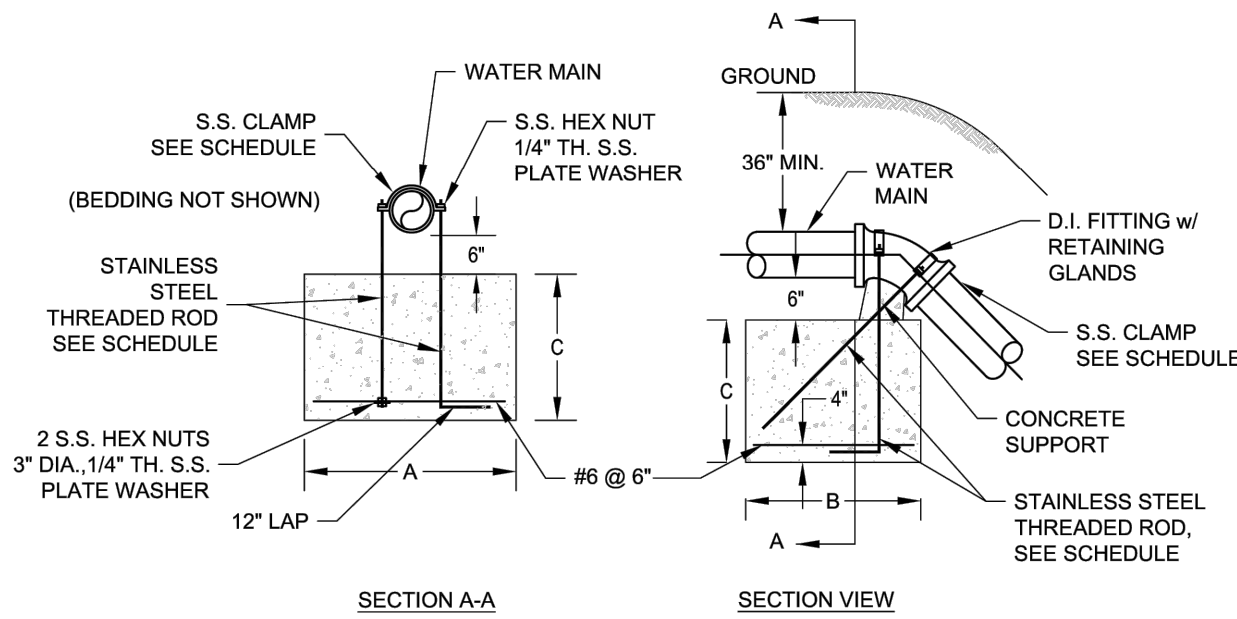


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 No. 566
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF ARKANSAS
 No. 9540

BLOCKING SCHEDULE				
PIPE SIZE	BENDS			ROD DIA.
	45°	22 1/2°	11 1/4°	
8"	VOLUME REQ'D (CU. FT.)	98.5	50.2	25.2
	A (FT.)	5.00'	4.00'	3.00'
	B (FT.)	4.00'	3.20'	2.80'
	C (FT.)	5.00'	4.00'	3.00'
MIN. CLAMP (2 EA.)		3/8 IN. x 2 IN.		
12"	VOLUME REQ'D (CU. FT.)	209.5	106.8	53.7
	A (FT.)	8.00'	5.00'	4.00'
	B (FT.)	6.00'	4.25'	3.50'
	C (FT.)	6.00'	5.00'	4.00'
MIN. CLAMP (2 EA.)		1/2 IN. x 2 IN.		
18"	VOLUME REQ'D (CU. FT.)	457.2	233.1	117.1
	A (FT.)	12.00'	8.50'	5.00'
	B (FT.)	7.25'	5.50'	4.75'
	C (FT.)	8.00'	6.50'	5.00'
MIN. CLAMP (2 EA.)		5/8 IN. x 3 IN.		
24"	VOLUME REQ'D (CU. FT.)	800.3	408.0	205.0
	A (FT.)	15.00'	7.50'	6.00'
	B (FT.)	9.00'	7.25'	5.75'
	C (FT.)	9.50'	7.50'	6.00'
MIN. CLAMP (2 EA.)		5/8 IN. x 3 IN.		

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 250 PSI, 50 PSI SURGE AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

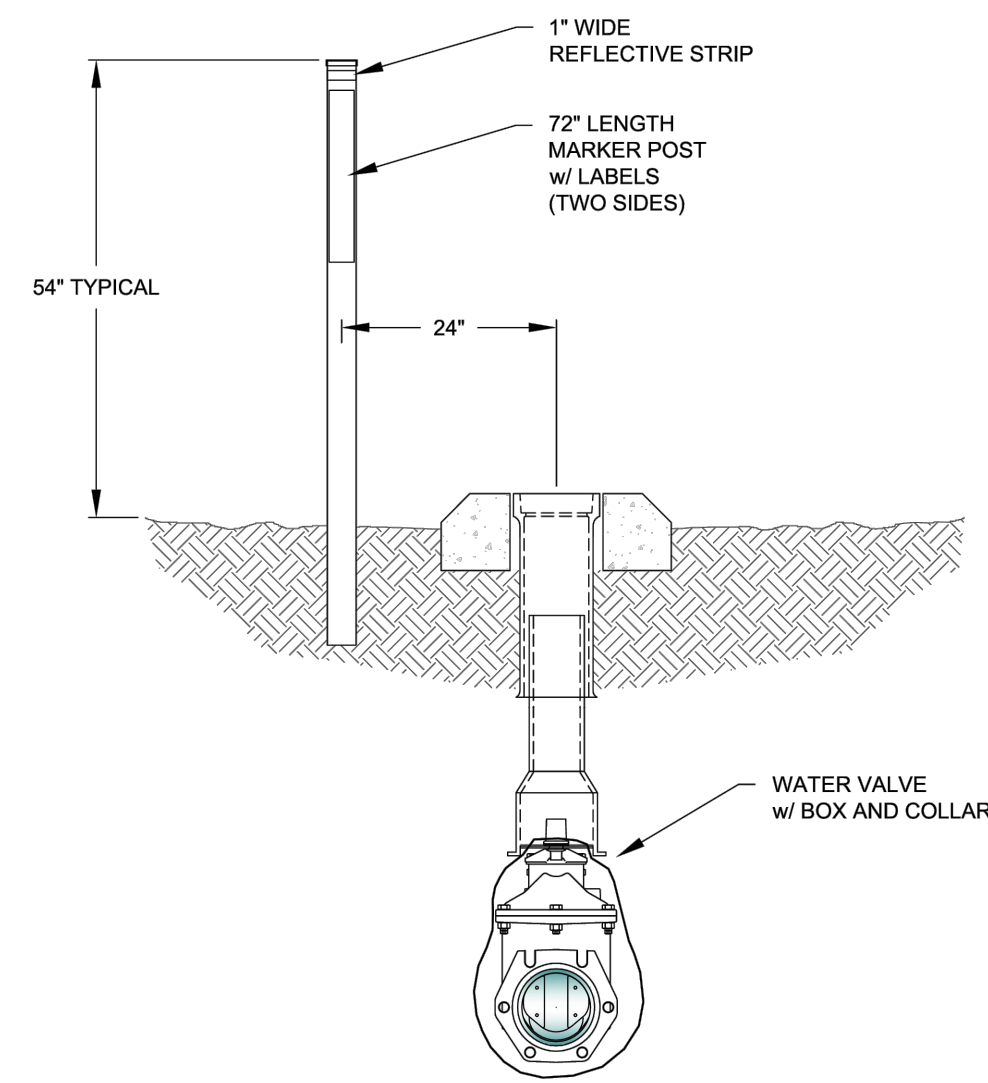
ALL FITTINGS SHALL BE MECHANICAL JOINTS WITH RETAINING GLANDS. BEDDING NOT SHOWN



VERTICAL TIE-DOWN BLOCKING

CITY OF BRYANT, AR	TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET: W17
	DESCRIPTION: VERTICAL TIE-DOWN BLOCKING	REVISIONS:	

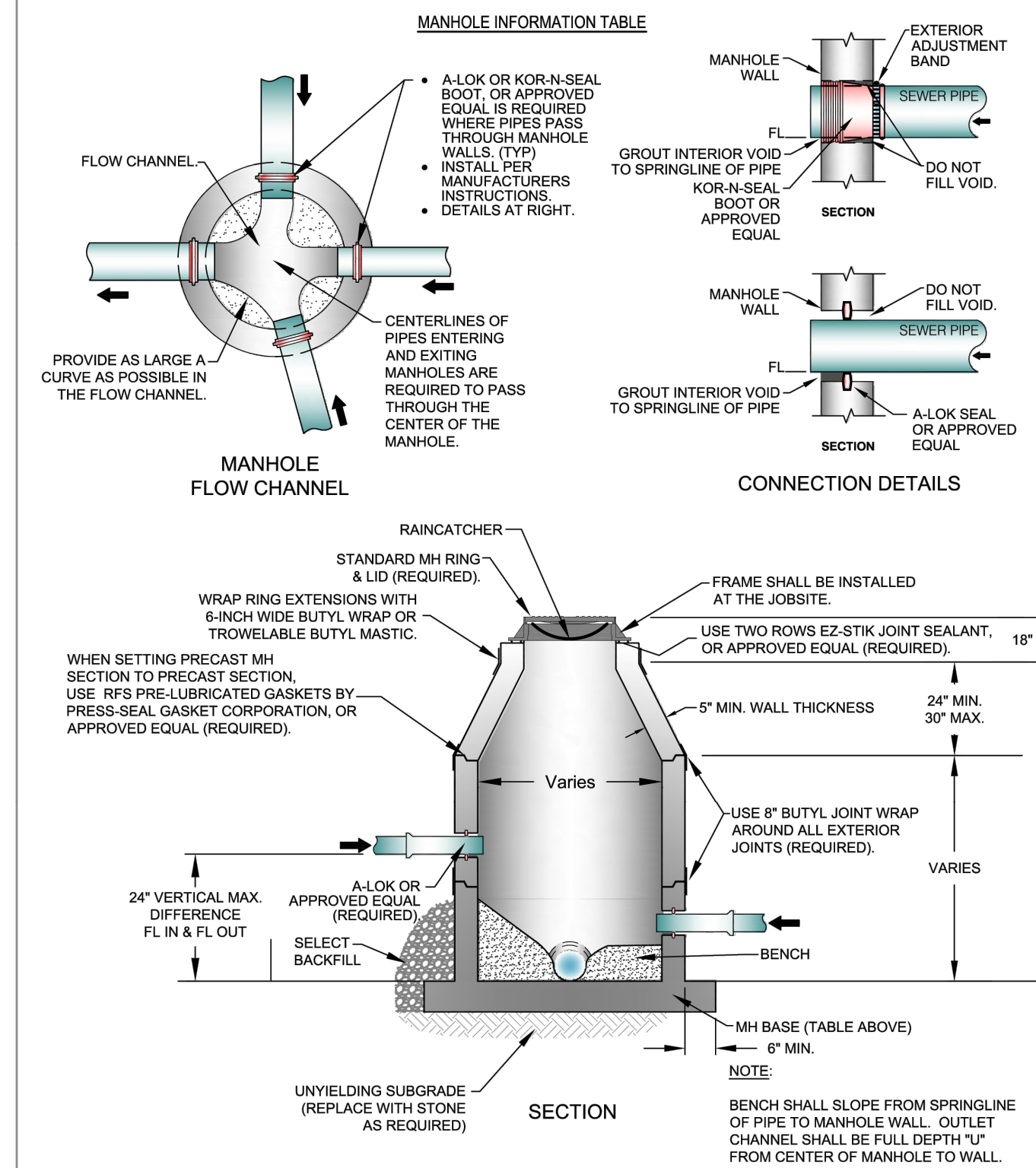
- NOTES:
- WATER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
 - THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
 - TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
 - AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



VALVE MARKER

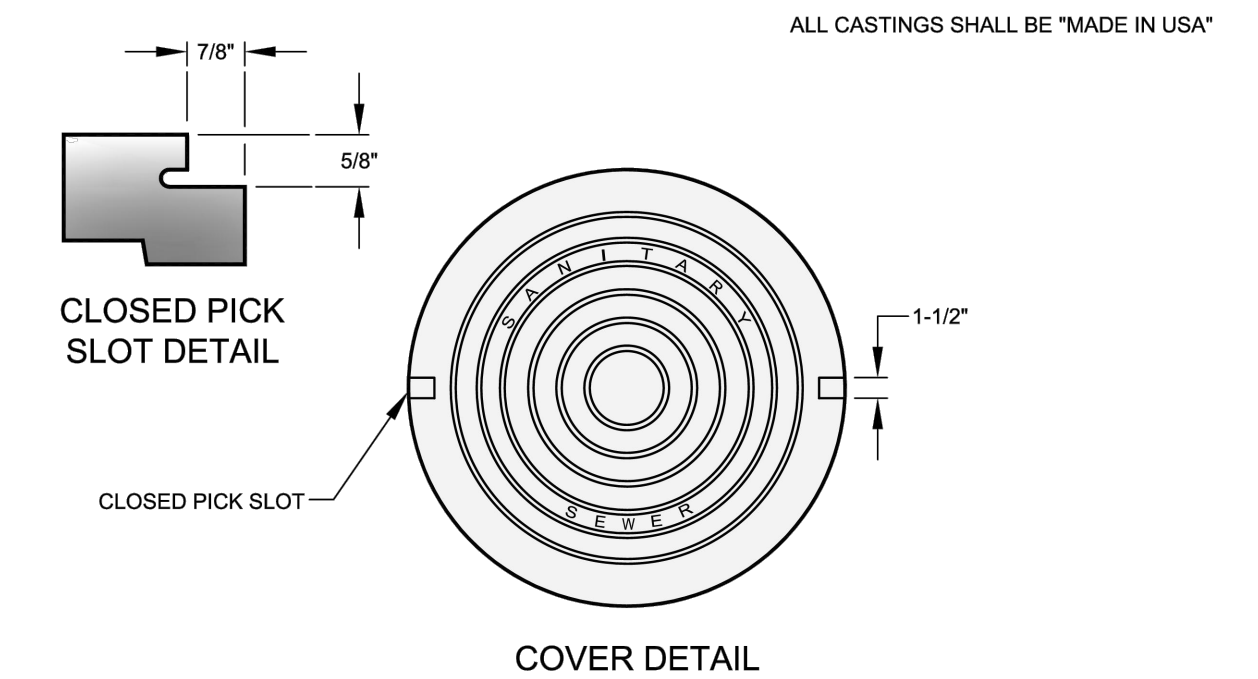
CITY OF BRYANT, AR	TITLE: WATER DETAILS	DATE: APRIL 2015	SHEET: W22
	DESCRIPTION: VALVE MARKER	REVISIONS:	

Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4 DIA	5"	6"	24" (< or Equal to 24" Pipes)
5 DIA	7"	8"	30" (> 24" Pipes)
6 DIA	7"	8"	30" (> 24" Pipes)

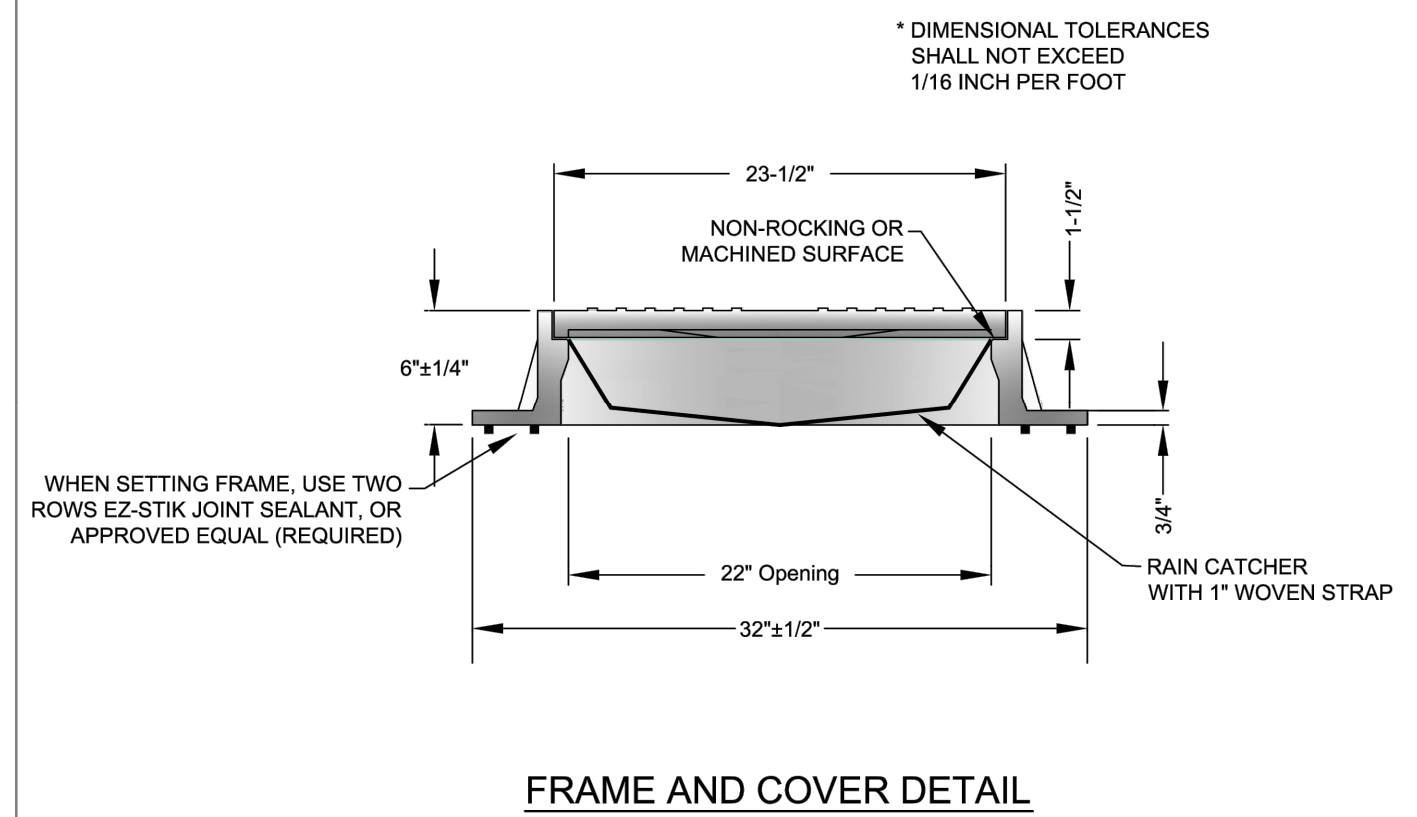


PRECAST MANHOLE

CITY OF BRYANT, AR	TITLE: SEWER DETAILS	DATE: APRIL 2015	SHEET: S5
	DESCRIPTION: PRECAST MANHOLE	REVISIONS:	

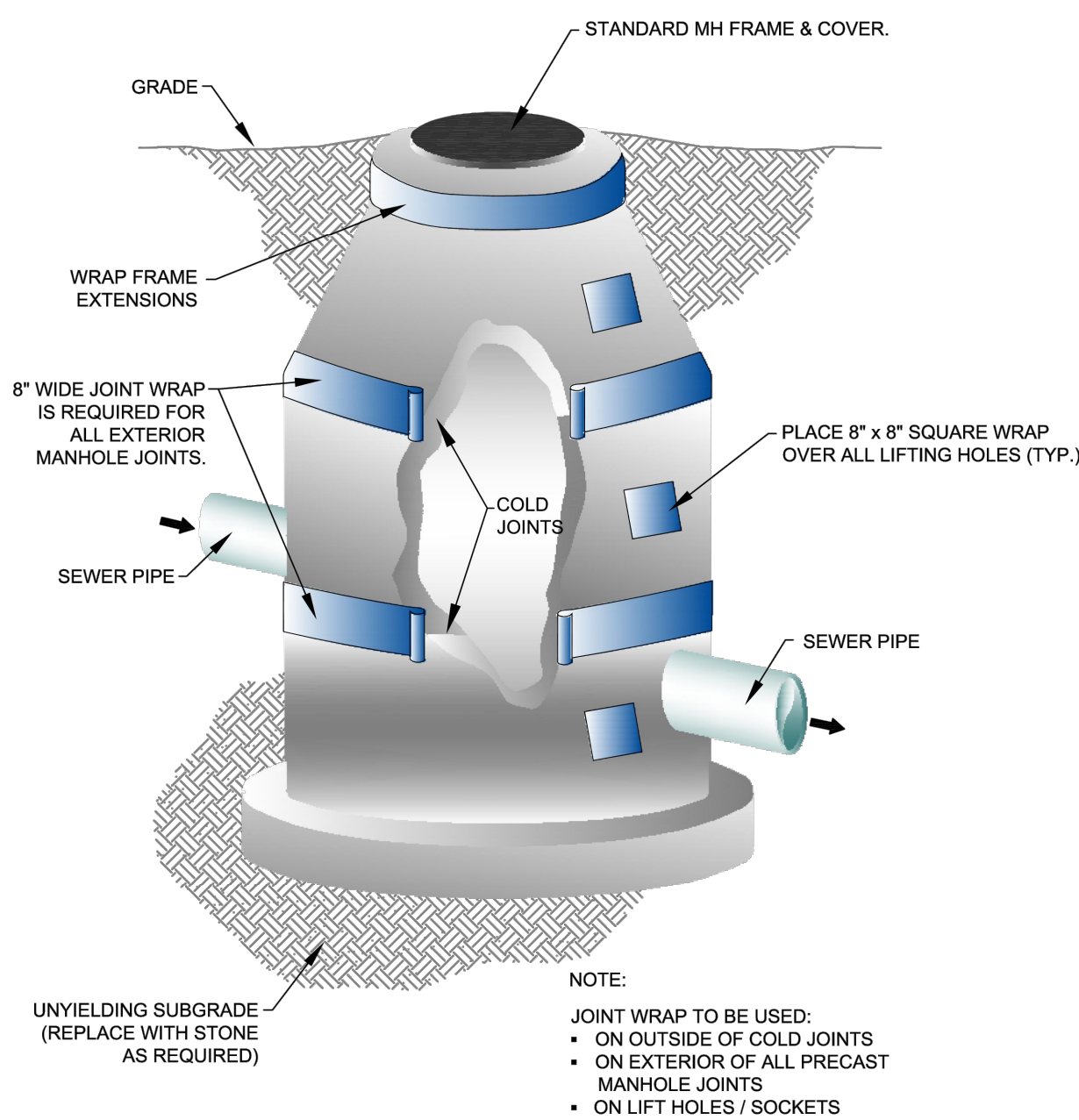


- MINIMUM WEIGHT OF RING: 100 POUNDS
- MINIMUM WEIGHT OF COVER: 110 POUNDS
- COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
- CASTINGS SHALL BE "MADE IN USA"



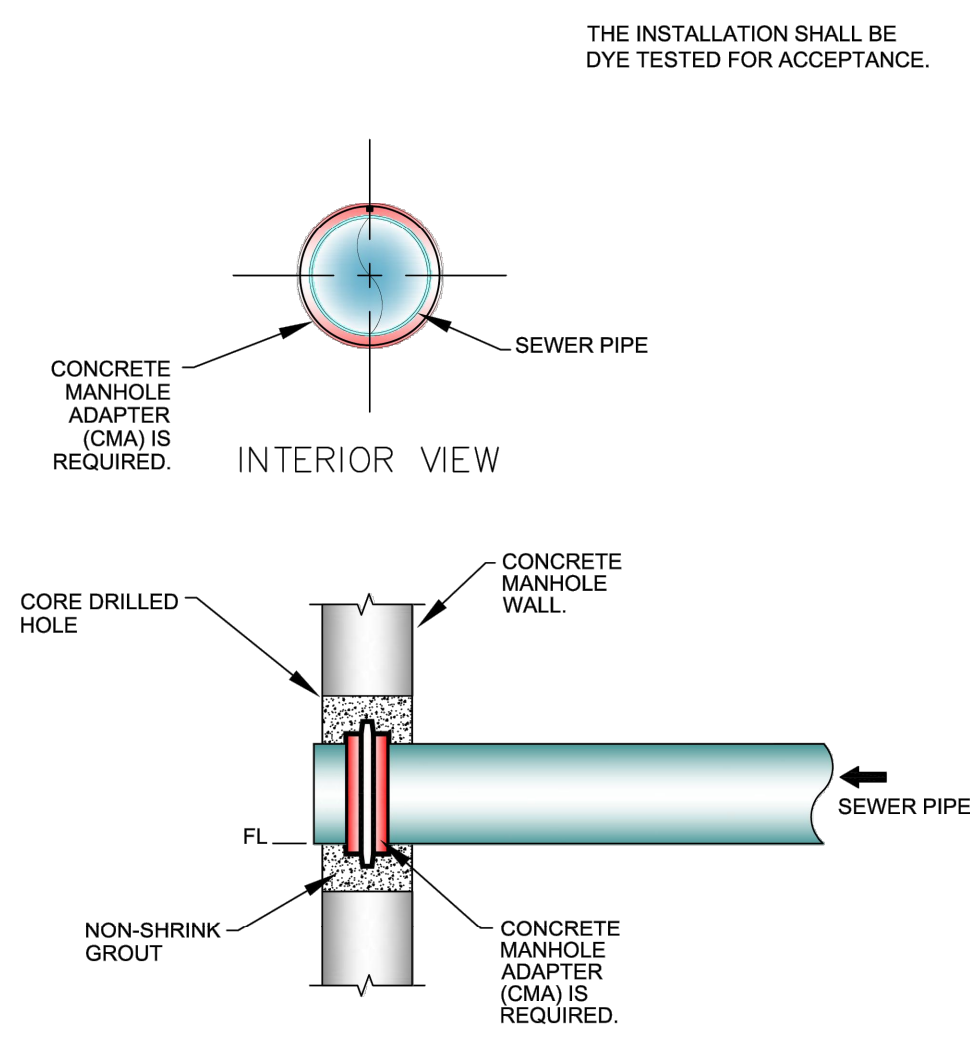
FRAME AND COVER DETAIL

CITY OF BRYANT, AR	TITLE: SEWER DETAILS	DATE: APRIL 2015	SHEET: S6
	DESCRIPTION: MANHOLE FRAME AND COVER	REVISIONS:	



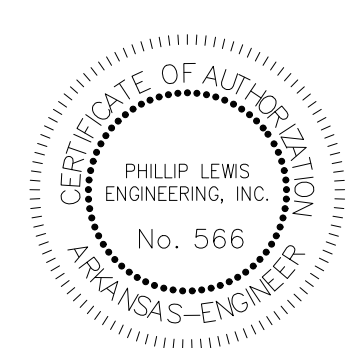
MANHOLE JOINT WRAP

CITY OF BRYANT, AR	TITLE: SEWER DETAILS	DATE: APRIL 2015	SHEET: S9
	DESCRIPTION: MANHOLE JOINT WRAP	REVISIONS:	

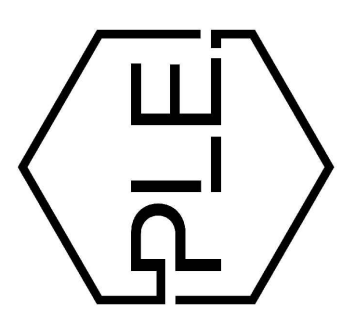


MANHOLE CORING DETAILS

CITY OF BRYANT, AR	TITLE: SEWER DETAILS	DATE: APRIL 2015	SHEET: S11
	DESCRIPTION: MANHOLE CORING	REVISIONS:	



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Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840



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HIGHWAY 5
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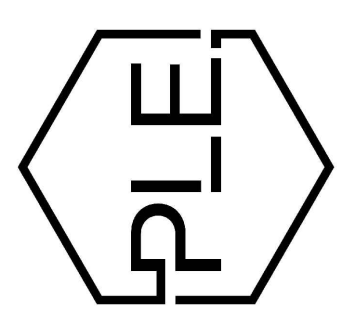
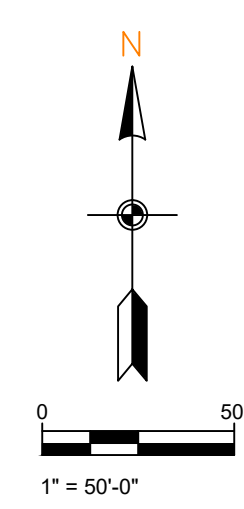
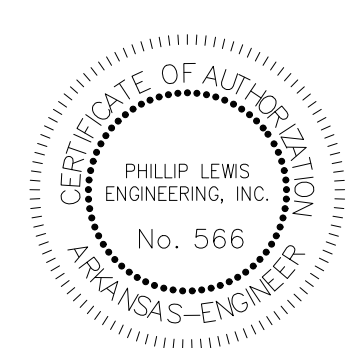
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UTILITY DETAILS



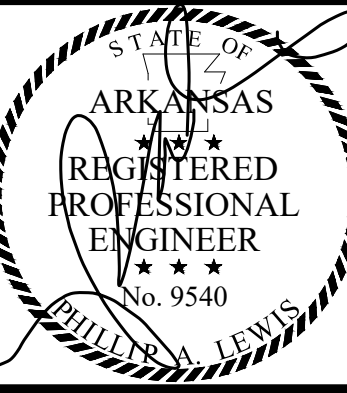
PRE DRAINAGE MAP

SCALE 1" = 50'



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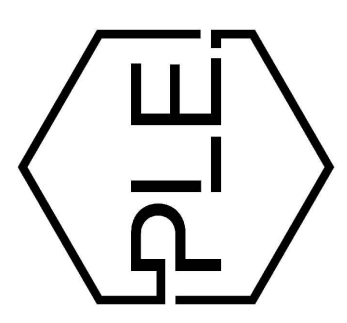
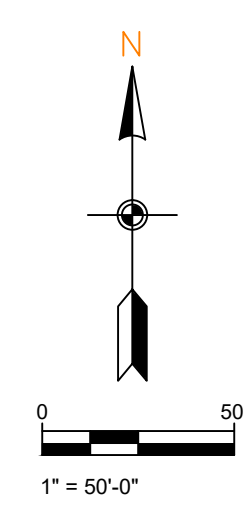
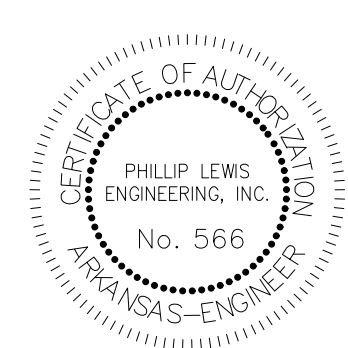


POST DRAINAGE MAP

SCALE 1" = 50'

GENERAL SITE NOTES

- TOTAL NEW DEVELOPMENT AREA = (+/-) 1.12 ACRES
- PROPERTY IS ZONED C-2
- 43 PARKING SPACES PROVIDED INCLUDING 2 ADA ACCESSIBLE PARKING SPACES
- ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
- DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
- ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.



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POST DRAINAGE MAP

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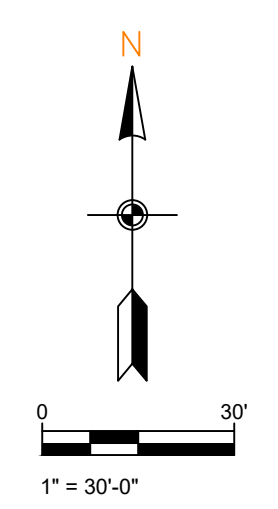
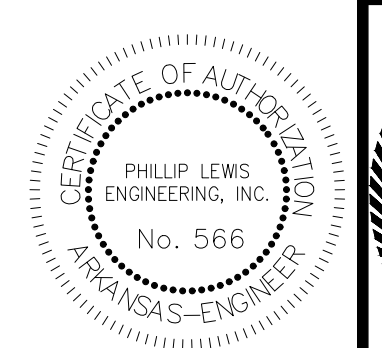


LANDSCAPE PLAN

NOTES:
 1. LANDSCAPED AREAS TO BE AMENDED WITH 4" OF TOPSOIL, SCARIFY SOIL 3" PRIOR TO APPLICATION. ALL TOP SOIL SHALL BE PLACED IN COORDINATION WITH GRADING AND DRAINAGE PLANS TO ENSURE THAT THE GRADING AND DRAINAGE DESIGN FOR THE SITE IS MAINTAINED AFTER BEING SOODED OR SEEDED. EXISTING SOIL FROM THE SITE CAN BE STOCK PILED AND REUSED AS LONG AS IT IS OF QUALITY THAT ENCOURAGES ADEQUATE GROWTH OF PLANTING MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL TESTING THAT MAY BE REQUIRED.
 2. LANDSCAPE PLAN REPRESENTS RECOMMENDED SPECIES, SIZES, & LOCATIONS. OWNER SHALL CHANGE THE ITEMS TO EQUAL OR GREATER VALUE.

SCALE 1" = 30'

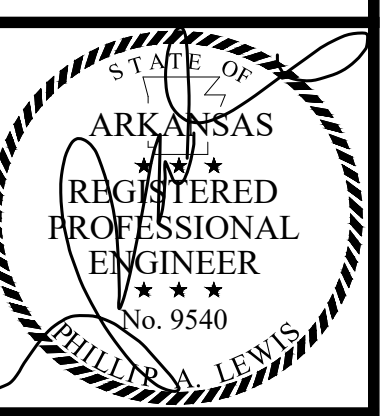
PLANT SCHEDULE						
PLANT TYPE	SYMBOL	CODE	QTY	COMMON SPECIES	SCIENTIFIC NAME	CAL / SIZE
TREES		WO	15	WILLOW OAK	QUERCUS PHELLOS	MIN. 3" DIAMETER @ BASE AND 12' TALL
SHRUBS		BW	85	DWARF NANDINA	N. DOMESTICA "HARBOUR DWARF"	3 GAL
GROUND COVER		SO	61,425 SF	BERMUDA SOD		
		GS	36,022 SF	GRASS SEED		
			5,114 SF	LANDSCAPE BEDDING (TBD BY OWNER)		



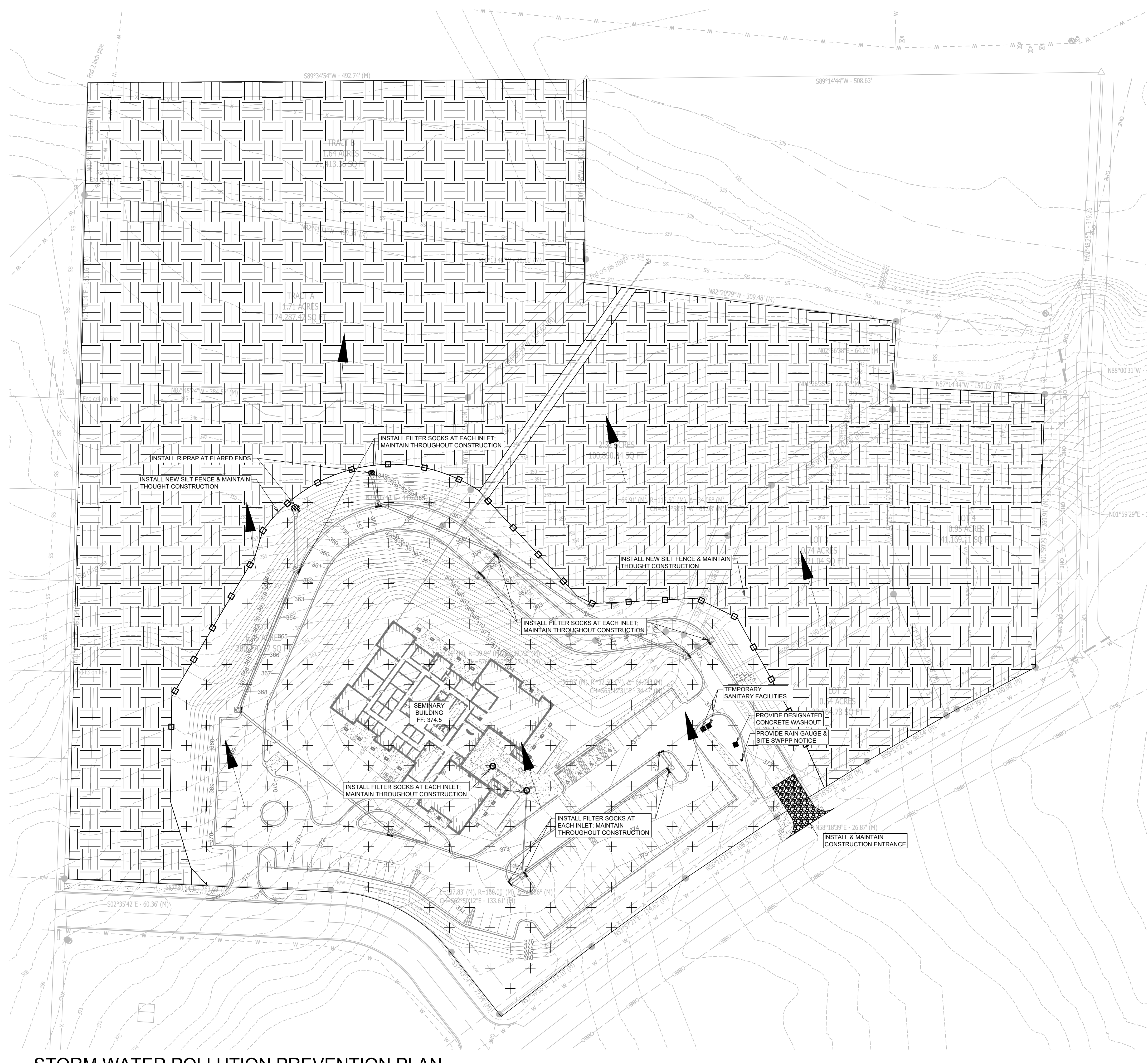
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LANDSCAPE PLAN



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LEGEND

- DISTURBED AREA
- UNDISTURBED AREA
- SEDIMENT FENCE WITH WIRE BACKING
- DRAINAGE DIRECTION

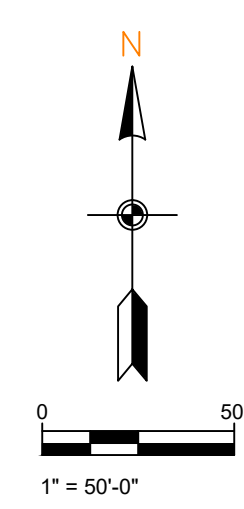
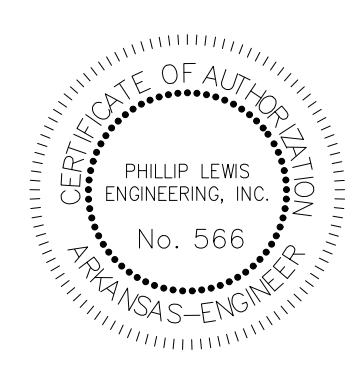
GENERAL CONSTRUCTION NOTES

- A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
- C. THE DUTY OF THE LOCAL UTILITY PROVIDER TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.
- E. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- F. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- G. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
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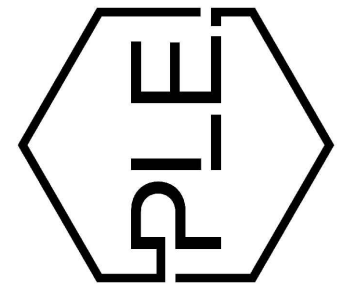
STORM WATER POLLUTION PREVENTION PLAN

INSTALL FILTER SOCKS AT ALL INLETS; MAINTAIN THROUGHOUT CONSTRUCTION.

SCALE 1" = 50'



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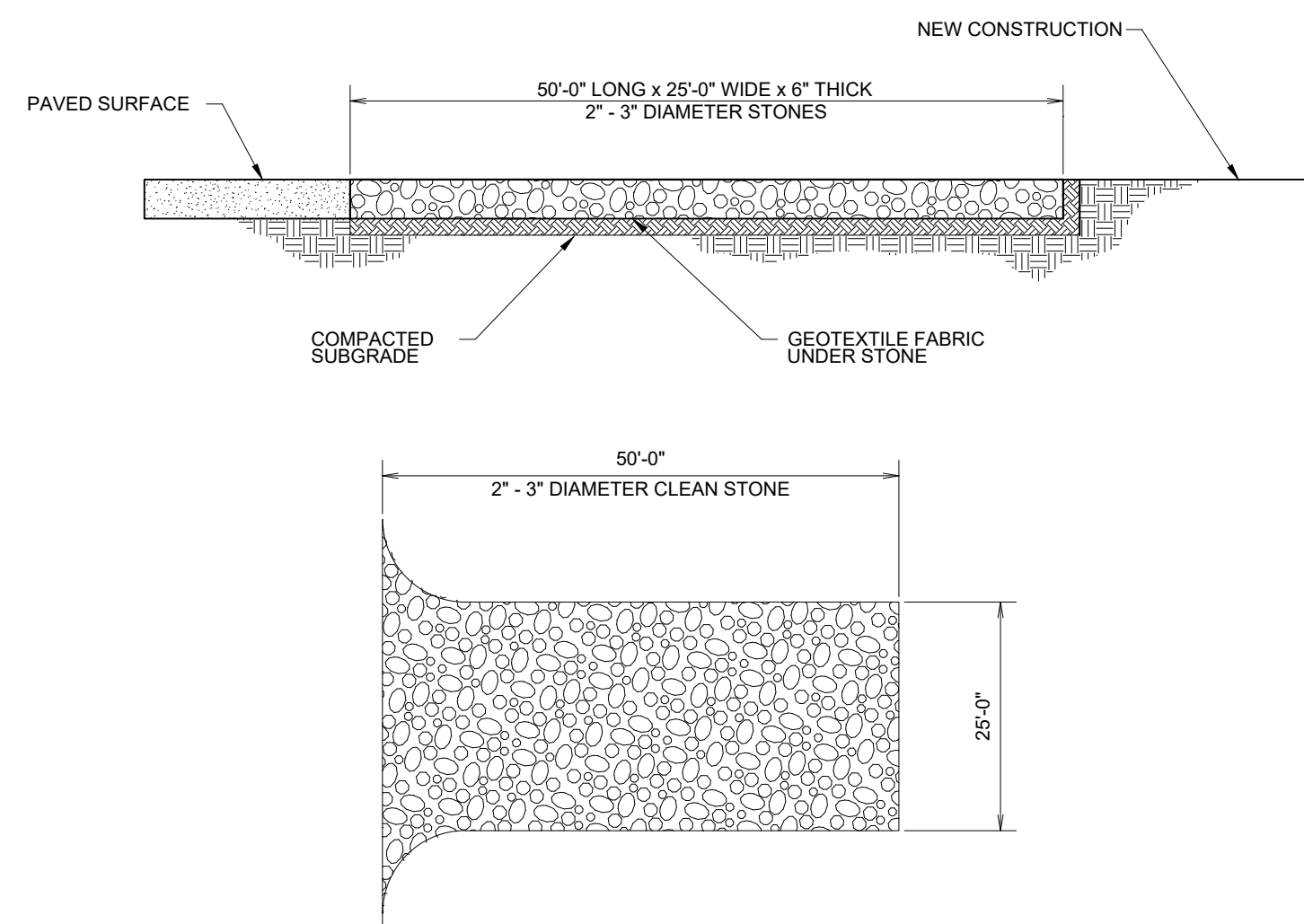
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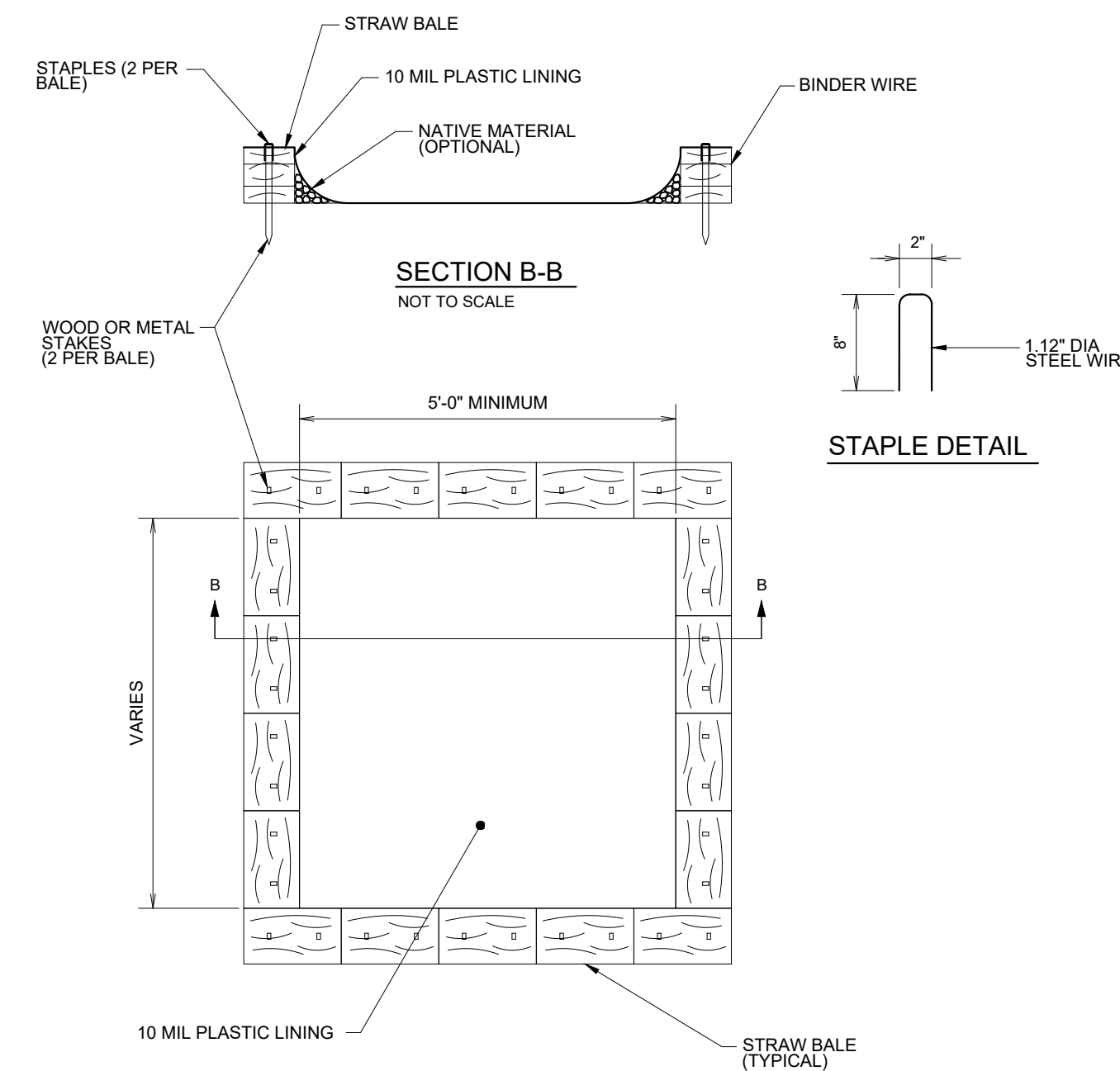
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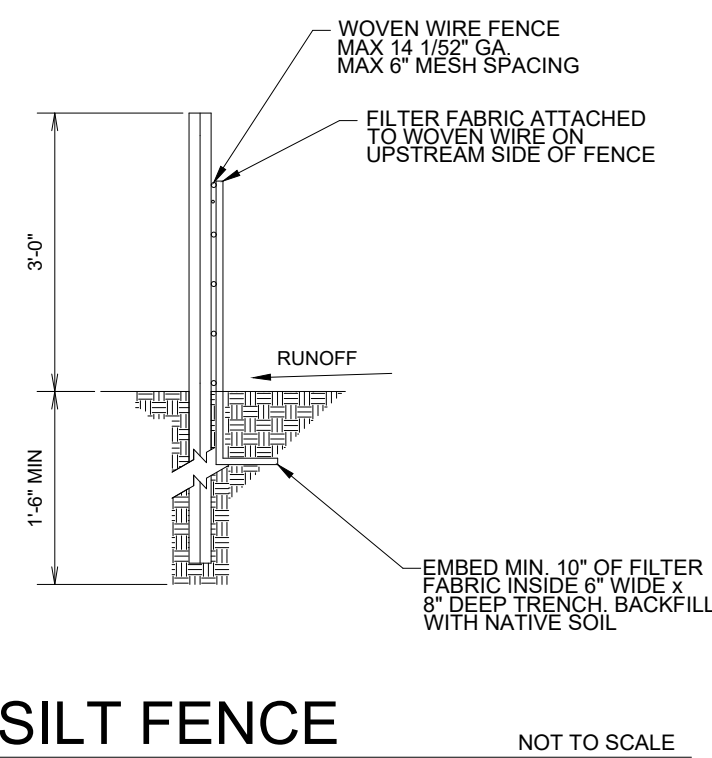
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CONSTRUCTION ENTRANCE NOT TO SCALE



CONCRETE WASHOUT NOT TO SCALE



SILT FENCE NOT TO SCALE

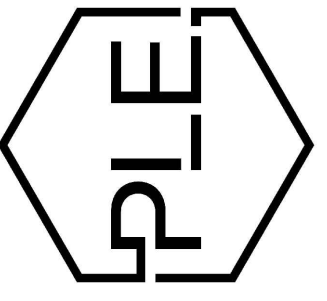
NOTES AND SPECIFICATIONS:

1. POSTS SHALL BE A MINIMUM OF 36 INCHES CONSTRUCTED OF EITHER OF THE FOLLOWING MATERIALS: STEEL 1" OR 1 1/2" TYPE, OR 2" x 2" HARDWOOD.
2. WOVEN WIRE USED AS ADDITIONAL FENCE SUPPORT SHALL BE MINIMUM 14.5 GA. WITH 6" MAXIMUM SPACING.
3. WOVEN WIRE SHALL BE PLACED ALONG THE UPHILL SIDE OF THE FENCE AND FASTENED WITH WIRE TIES OR 1" STAPLES ALONG THE UPHILL SIDE OF THE POSTS.
4. FILTER FABRIC SHALL BE FASTENED TO WOVEN WIRE ACCORDING TO MANUFACTURER'S RECOMMENDATION, OR WITH TIES EVERY 24" AT THE TOP AND MID-SECTIONS.
5. WHERE TWO PIECES OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED TOGETHER.
6. WHERE TWO POSTS MEET TO JOIN FENCE SECTIONS, THE TOPS OF THE POSTS SHALL BE SECURED TOGETHER WITH WIRE.
7. THE FENCE SHALL BE CONSTRUCTED ALONG THE CONTOUR AS MUCH AS POSSIBLE.
8. ENDS OF FENCES SHALL BE EXTENDED UP THE SLOPE TO PREVENT RUNOFF FROM MIGRATING AROUND THE END OF THE FENCE.
9. INSPECTION OF THE FENCE SHALL BE PERFORMED WEEKLY, OR IMMEDIATELY AFTER A RAIN EVENT, OR WHEN BULGES APPEAR IN THE FENCE. ACCUMULATED SILT SHALL NOT BE ALLOWED TO EXCEED HALF THE HEIGHT OF THE FABRIC. REPAIR AND OR REPLACEMENT OF DAMAGED FENCE SHALL BE COMPLETED PROMPTLY.
10. ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE IN SUCH A MANNER THAT IT WILL NOT CONTRIBUTE TO OFF-SITE SILTATION.
11. ALL FENCING SHALL BE REMOVED WITH THE CONSTRUCTION SITE IS FULLY STABILIZED SO AS TO NOT IMPEDE STORM FLOW OR DRAINAGE.
12. PRE-FRABRICATED UNITS DO NOT REQUIRE THE USE OF WOVEN WIRE FENCE.

GENERAL CONSTRUCTION NOTES

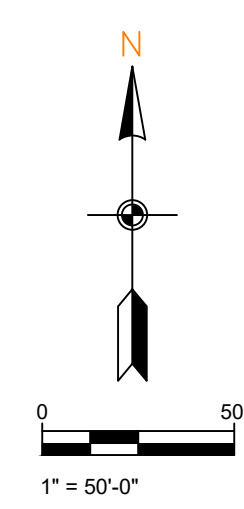
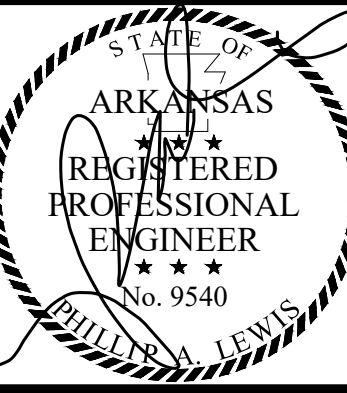
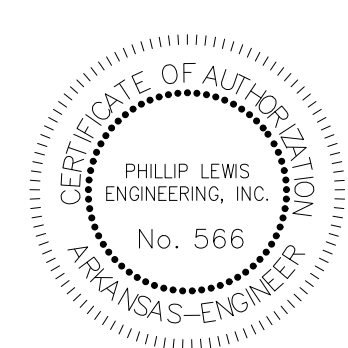
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