

# HUNTER WOODS

## CITY OF LA PORTE, INDIANA

### Section 25, Township 37 N, Range 03 W

### APPROXIMATE CENTER OF PROJECT 41°37' 59" N and 86°42'58" W

**OWNER/DEVELOPER:**  
 FOUR FIRST LLC  
 2134 WATERMARK DRIVE  
 GRAND RAPIDS, MI, 49546  
 PHONE: 708-351-7777

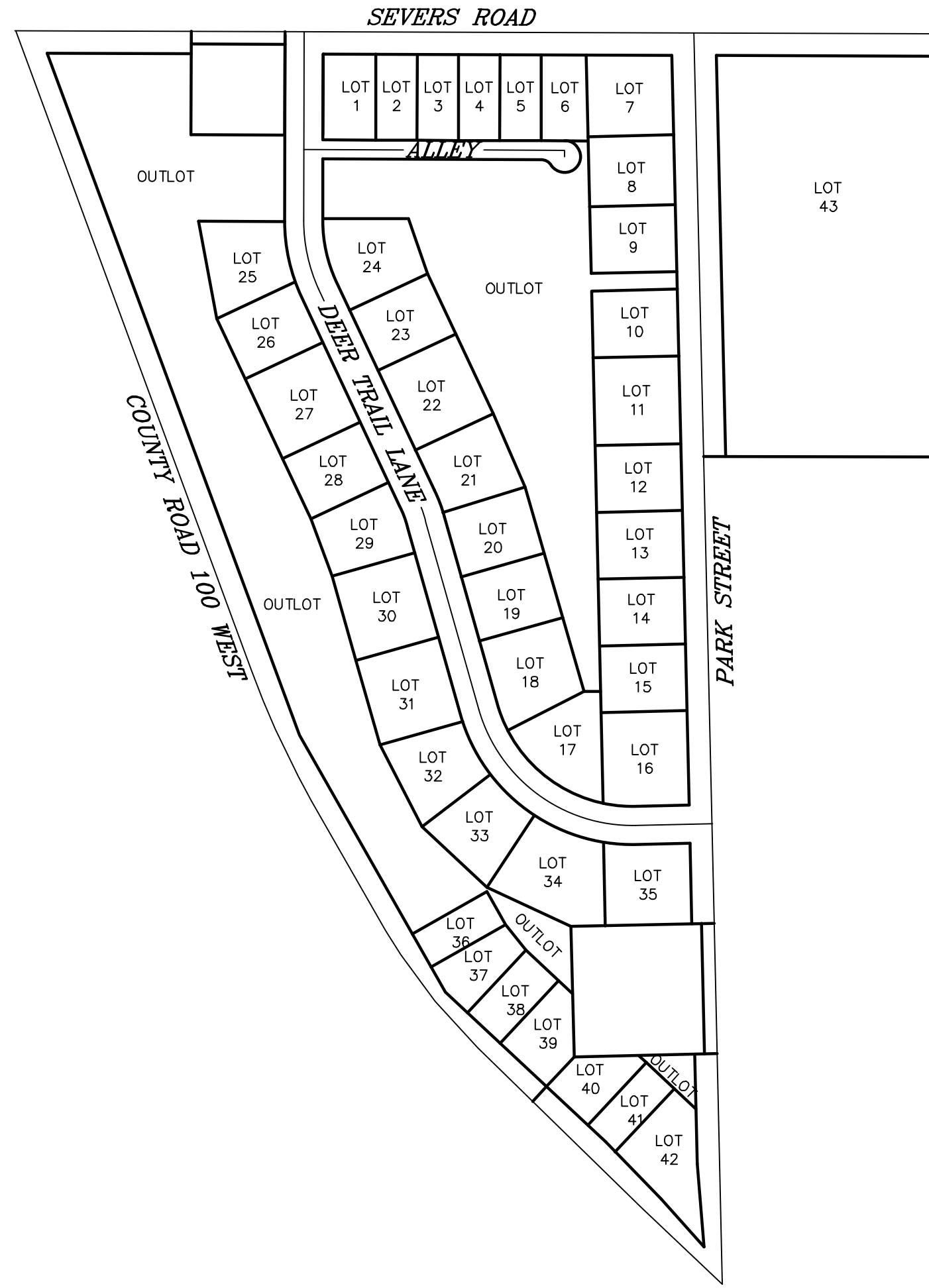
**ENGINEER/SURVEYOR:**  
 DUNELAND GROUP INC.  
 1498 POPE CT.  
 CHESTERTON, IN, 46304  
 PHONE: 219-926-1007

**UTILITIES:**  
 ELECTRIC & GAS - NIPSCO  
 TELEPHONE - TBD  
 WATER - CITY OF LAPORTE  
 SEWER - CITY OF LAPORTE  
 CABLE TV - TBD

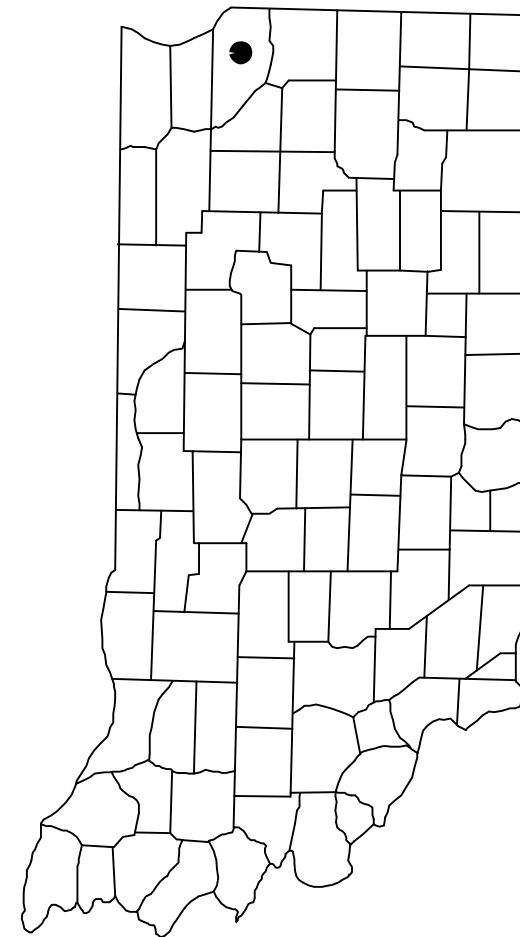
**DRAWING LIST**

COVER	04/19/2024
SHEET C-1: NOTE SHEET	04/19/2024
SHEET P-1: BOUNDARY EXHIBIT	04/19/2024
SHEET C-2: PRIMARY PLAT - WEST SIDE	04/19/2024
SHEET C-3: PRIMARY PLAT - EAST SIDE	04/19/2024
SHEET C-4: ADJACENT PROPERTY OWNERS	04/19/2024
SHEET C-5: EXISTING CONDITIONS - WEST SIDE	04/19/2024
SHEET C-6: EXISTING CONDITIONS ENLARGED - WEST SIDE	04/19/2024
SHEET C-7: EXISTING CONDITIONS ENLARGED - WEST SIDE	04/19/2024
SHEET C-8: EXISTING CONDITIONS ENLARGED - WEST SIDE	04/19/2024
SHEET C-9: EXISTING CONDITIONS - EAST SIDE	04/19/2024
SHEET C-10: UTILITY PLAN OVERALL - WEST SIDE	04/19/2024
SHEET C-11: UTILITY PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-12: UTILITY PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-13: UTILITY PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-14: UTILITY PLAN - EAST SIDE	04/19/2024
SHEET C-15: GRADING PLAN OVERALL - WEST SIDE	04/19/2024
SHEET C-16: GRADING PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-17: GRADING PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-18: GRADING PLAN ENLARGED - WEST SIDE	04/19/2024
SHEET C-19: GRADING PLAN OVERALL - EAST SIDE	04/19/2024
SHEET C-20: DEER TRAIL LANE SOUTH PLAN/PROFILE	04/19/2024
SHEET C-21: DEER TRAIL LANE NORTH PLAN/PROFILE	04/19/2024
SHEET C-22: ALLEY SANITARY PLAN / PROFILE	04/19/2024
SHEET C-23: CR 100 W SANITARY PLAN / PROFILES	04/19/2024
SHEET C-24: STORM PLAN / PROFILES	04/19/2024
SHEET C-25: STORM PLAN / PROFILES	04/19/2024
SHEET C-26: OUTLET CULVERT PIPE PLAN/PROFILE	04/19/2024
SHEET C-27: CR 100 W DITCH STA. 2+00-10+00	04/19/2024
SHEET C-28: CR 100 W DITCH STA. 11+00-16+00	04/19/2024
SHEET C-29: PARK STREET DITCH PLAN/PROFILE	04/19/2024
SHEET C-30: PARK STREET DITCH PLAN/PROFILE	04/19/2024
SHEET C-31: CENTRAL POND STORM WATER DETAILS	04/19/2024
SHEET C-32: EAST POND STORM WATER DETAILS	04/19/2024
SHEET C-33: STORM WATER DETAILS	04/19/2024
SHEET C-34: LOW-PRESSURE SYSTEM DETAILS	04/19/2024
SHEET C-35: WATER PLAN/PROFILE	04/19/2024
SHEET C-36: COUNTRY ROAD 100 WEST WATER PLAN/PROFILE	04/19/2024
SHEET C-37: SIDEWALK AND CURB RAMP DETAILS	04/19/2024
SHEET C-38: CURB RAMP DETAILS	04/19/2024
SHEET C-39: CITY OF LA PORTE DETAILS	04/19/2024
SHEET C-40: CITY OF LA PORTE DETAILS	04/19/2024
SHEET C-41: CITY OF LA PORTE DETAILS	04/19/2024
SHEET C-42: CITY OF LA PORTE DETAILS	04/19/2024
SHEET C-43: CITY OF LA PORTE DETAILS	04/19/2024
SHEET C-44: EROSION CONTROL PLAN	04/19/2024
SHEET C-45: EROSION CONTROL PLAN	04/19/2024
SHEET C-46: EROSION CONTROL PLAN	04/19/2024
SHEET C-47: EROSION CONTROL PLAN	04/19/2024
SHEET C-48: EROSION CONTROL PLAN	04/19/2024
SHEET C-49: SIGN PLACEMENT/VISION CLEARANCE	04/19/2024
SHEET C-50: LANDSCAPING PLAN	04/19/2024

**DRAWING DATE REVISION DATE**



**VICINITY MAP**  
 NOT TO SCALE



● - LOCATION OF PROJECT

**SITE LAYOUT**  
 SCALE: 1"=200'



**RECORD DESCRIPTION:**

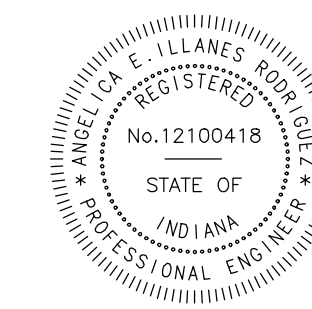
A parcel of land situated in the Northwest Quarter (NW<sup>1</sup>/<sub>4</sub>) of Section Twenty-five (25), Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana, and being more particularly described as follows:  
 Commencing at a cast iron monument marking the Northwest corner of Section Twenty-five (25) Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana; thence South twenty degrees nineteen minutes zero seconds East (S20°19'00"E), along the center line of County Road 100 West, a distance of One thousand one hundred ninety-six and six hundredths (1196.60) feet to a bolt; thence South twenty-nine degrees thirty minutes ten seconds East (S29°30'10"E), continuing along said center line, a distance of Four hundred seventy-two and fifty hundredths (472.50) feet to a bolt; thence South forty-six degrees fifty-six minutes zero seconds East (S46°56'00"E), continuing along said center line, a distance of Two hundred twenty-three and ten hundredths (223.10) feet to the point of beginning; thence North forty-three degrees four minutes zero seconds East (N43°04'00"E), a distance of Ninety-eight and eighty-five hundredths (98.85) feet to an iron pipe; thence North eighty-eight degrees forty-one minutes five seconds East (N88°41'05"E), a distance of Two hundred twenty-five (225.00) feet to a railroad spike on the center line of Park Road; thence South one degree eighteen minutes fifty-five seconds East (S01°18'55"E), along said center line, a distance of One hundred seventy-one and sixty-six hundredths (171.66) feet to a railroad spike; thence South four degrees forty-two minutes zero seconds East (S04°42'00"E), continuing along said center line, a distance of Two hundred thirty-three and fifty hundredths (233.50) feet to an iron pipe marking the center line of County Road 100 West; thence North forty-one degrees fifty-three minutes thirty seconds West (N41°53'30"W), along the center line of County Road 100 West, a distance of Two hundred four and ten hundredths (204.10) feet to a bolt; thence North forty-four degrees twenty-four minutes fifteen seconds West (N44°24'15"W), continuing along said center line, a distance of One hundred twenty-three and ninety-six hundredths (123.96) feet to a bolt; thence North forty-six degrees fifty-six minutes zero seconds West (N46°56'00"W), continuing along said center line, a distance of One hundred twenty-six and six hundredths (126.60) feet to the point of beginning, containing One and four hundred eighty-six thousandths (1.486) acres, more or less, subject to the right of way of County Road 100 West and the right of way of Park Road.

ALSO

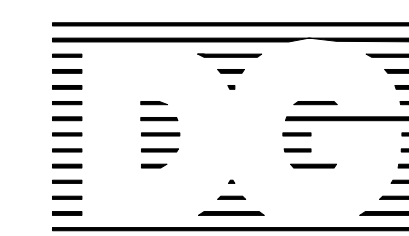
A parcel of land situated in the Northwest Quarter (NW<sup>1</sup>/<sub>4</sub>) of Section Twenty-five (25), Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana, being more particularly described as follows:  
 Commencing at a cast iron monument marking the Northwest corner of Section Twenty-five (25), Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana, for the point of beginning; thence South eighty-nine degrees forty-eight minutes twenty-five seconds East (S 89° 48' 25" E), along the North line of said Section Twenty-five (25), a distance of two hundred seventy-seven and two hundredths (277.02) feet to a masonry nail marking the Northwest corner of a parcel of land as described in Deed Record Six (6) Page One hundred seventy-three (173); thence South zero degrees eleven minutes thirty-five seconds West (S 0° 11' 35" W), along the West line of said parcel, a distance of one hundred sixty-two and fifty hundredths (162.50) feet to an iron pipe marking the Southwest corner thereof; thence South eighty-nine degrees forty-eight minutes twenty-five seconds East (S 89° 48' 25" E), along the South line of said parcel, a distance of one hundred forty-seven and fifty-eight hundredths (147.58) feet to an iron pipe marking the Southeast corner thereof; thence North zero degrees eleven minutes thirty-five seconds East (N 0° 11' 35" E), along the East line of said parcel, a distance of one hundred sixty-two and fifty hundredths (162.50) feet to the North line of said Section Twenty-five (25); thence South eighty-nine degrees forty-eight minutes twenty-five seconds East (S 89° 48' 25" E), along the North line of said Section Twenty-five (25), a distance of one thousand one hundred ninety-six and six hundredths (1196.60) feet to an iron pipe; thence North eighty-eight degrees forty-one minutes five seconds East (N 88° 41' 05" E), a distance of Two hundred twenty-five (225.00) feet to a railroad spike on the center line of Park Road; thence South one degree eighteen minutes fifty-five seconds East (S 1° 18' 55" E), along the centerline of Park Road, a distance of three hundred seventy-five and seventy-four hundredths (375.74) feet to a railroad spike on the centerline of Park Road; thence South one degree eighteen minutes fifty-five seconds East (S 1° 18' 55" E), along the centerline of Park Road, a distance of one thousand one hundred eleven and seven hundredths (1111.07) feet to a railroad spike; thence South four degrees forty-two minutes zero seconds East (S 4° 42' 00" E), continuing along the centerline of County Road 100 West, a distance of two hundred thirty-three and fifty hundredths (233.50) feet to an iron pipe marking the centerline of County Road 100 West; thence North forty-one degrees fifty-three minutes thirty seconds West (N 41° 53' 30" W), along the centerline of County Road 100 West, a distance of Two hundred four and ten hundredths (204.10) feet to a bolt; thence North forty-four degrees twenty-four minutes fifteen seconds West (N 44° 24' 15" W), continuing along said centerline, a distance of one hundred twenty-three and ninety-six hundredths (123.96) feet to a bolt; thence North forty-six degrees fifty-six minutes zero seconds West (N 46° 56' 00" W), continuing along said centerline, a distance of three hundred forty-nine and seventy hundredths (349.70) feet to an iron pipe; thence North twenty-nine degrees thirty minutes ten seconds West (N 29° 30' 10" W), continuing along said centerline, a distance of four hundred seventy-two and fifty hundredths (472.50) feet to a bolt; thence North twenty-nine degrees nineteen minutes zero seconds West (N 29° 19' 00" W), continuing along said centerline, a distance of one thousand one hundred ninety-six and six hundredths (1196.60) feet to the point of beginning, containing Thirty-five and two hundred eighty-six thousandths (35.286) acres.

EXCEPTING THEREFROM:

A parcel of land situated in the Northwest Quarter (NW<sup>1</sup>/<sub>4</sub>) of Section Twenty-five (25), Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana, and being more particularly described as follows:  
 Commencing at a cast iron monument marking the Northwest corner of Section Twenty-five (25), Township Thirty-seven (37) North, Range Three (3) West, LaPorte County, Indiana; thence South twenty degrees nineteen minutes zero seconds East (S20°19'00"E), along the centerline of County Road 100 West, a distance of One Thousand One Hundred Ninety-six and Sixty hundredths (1196.60) feet to a bolt; thence South Forty-six degrees Fifty-six minutes Zero seconds East (S46°56'00"E), continuing along said centerline, a distance of Four Hundred Seventy-two and Fifty hundredths (472.50) feet to a bolt; thence South Forty-six degrees Fifty-six minutes Zero seconds East (S46°56'00"E), continuing along said centerline, a distance of Two Hundred Twenty-three and Ten hundredths (223.10) feet to the point of beginning; thence North Forty-three degrees Four minutes Zero seconds East (N43°04'00"E), a distance of Ninety-eight and Eighty-five hundredths (98.85) feet to an iron pipe; thence North One degree Eighteen minutes Fifty-five seconds East (N1°18'55"E), a distance of Two Hundred Twenty-five (225.00) feet to a railroad spike on the centerline of Park Road; thence South one degree Eighteen minutes Fifty-five seconds East (S1°18'55"E), along said centerline, a distance of Three Hundred Seventy-six and Seventy-nine hundredths (376.79) feet to a railroad spike; thence South Four degrees Forty-two minutes Zero seconds East (S4°42'00"E) continuing along said centerline, a distance of Two Hundred Thirty-three and Fifty hundredths (233.50) feet to an iron pipe marking the centerline of County Road 100 West; thence North Forty-one degrees Fifty-three minutes Thirty seconds West (N41°53'30"W), along the centerline of County Road 100 West, a distance of Two Hundred Four and Ten hundredths (204.10) feet to a bolt; thence North Forty-four degrees Twenty-four minutes Fifteen seconds West (N44°24'15"W), continuing along said centerline, a distance of One Hundred Twenty-three and Ninety-six hundredths (123.96) feet to a bolt; thence North Forty-six degrees Fifty-six minutes Zero seconds West (N46°56'00"W), continuing along said centerline, a distance of One Hundred Twenty-six and Sixty hundredths (126.60) feet to the point of beginning, containing Two and Five Hundred Forty-five thousandths (2.545) acres, more or less.



*[Signature]*  
 4/19/2024



**DUNELAND GROUP**  
 ENGINEERING & SURVEYING  
 1498 POPE COURT  
 CHESTERTON, INDIANA 46304  
 Ph: 219-926-1007  
 E-MAIL: dg@dunelandgroup.com



NOTES:

1. PARCEL IS ZONED R1C, R2B, R3A.
2. SURROUNDING PARCELS ARE ZONED M2 HEAVY INDUSTRIAL (CITY OF LA PORTE), AND R1B-SINGLE FAMILY (LAPORTE COUNTY).
3. ALL DIMENSIONS ARE IN FEET.
4. SEE BUILDING DIMENSIONAL REQUIREMENTS TABLE FOR BUILDING LINES.

Building Dimensional Requirements										
District	Max. building height		*Min. setbacks (ft.)			% Lot coverage		Min. floor area		
	Height (ft.)	Height (st.)	Front yard	Side yard	Total both sides	Rear yard	Building	Imper. surface	First floor (sq.ft.)	
<b>R1C</b> Single family residential	35	2.5	25	5	15	25	45%	55%	1000	800
<b>R2B</b> Townhouse residential district	45	3.5	15	10	20	25	65%	85%	1000	
<b>R3A</b> Low-rise multiple family Townhouses	45	4	15	10	20	25	65%	75%	800	
Multiple-family	45	4	25	20	40	25	55%	75%	500	

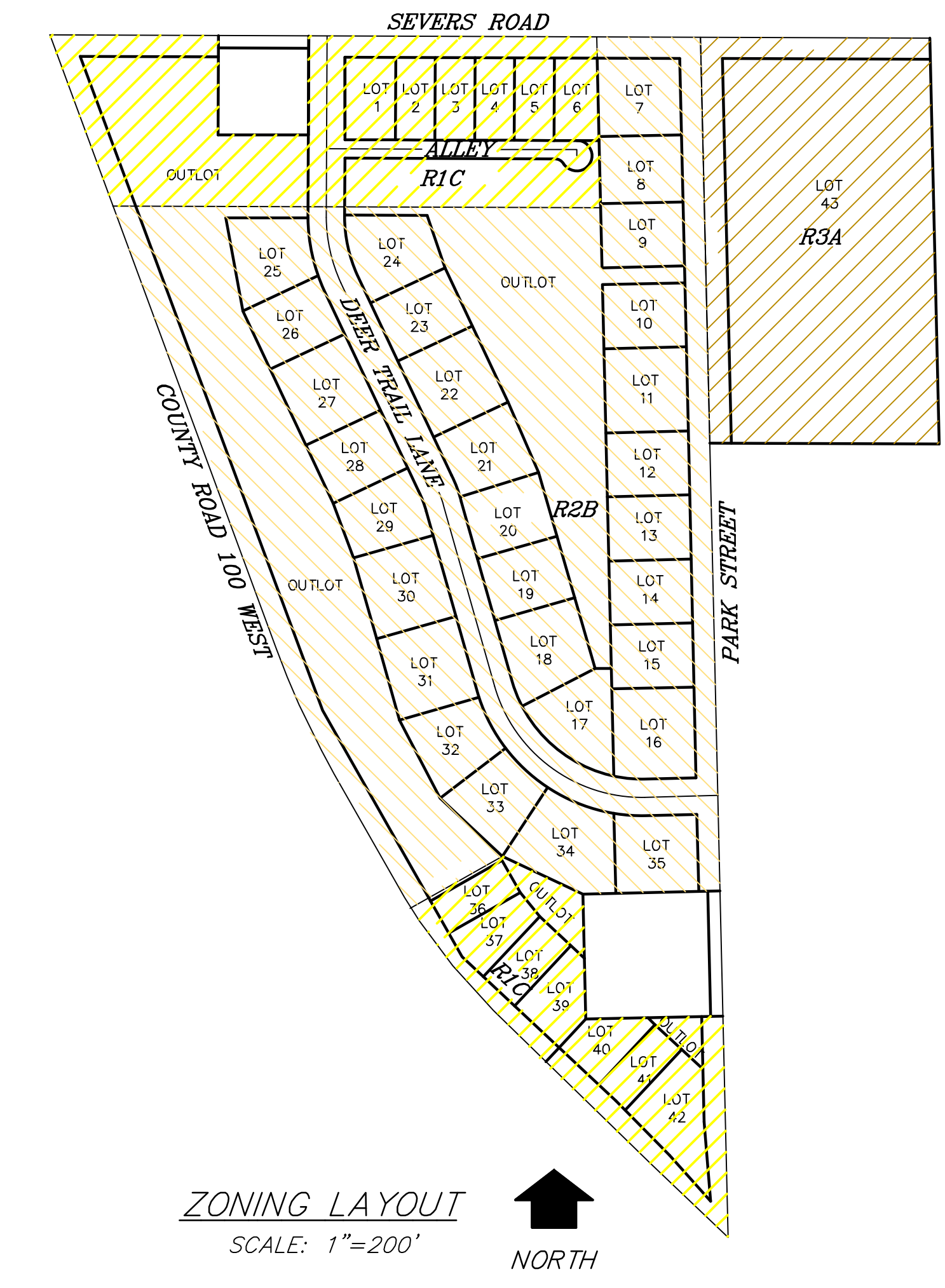
\*Setbacks apply as stated unless otherwise specified in the Primary Plat

5. 5/8" REBAR WITH ID CAPS WILL BE SET AT ALL LOT CORNERS AND POINTS OF CURVATURE.
6. IN ACCORDANCE WITH THE FEMA FLOOD INSURANCE RATE MAP PANEL #18091C0165D, DATED 11/06/2013, THIS PARCEL IS IN FLOOD HAZARD ZONE X.
7. LOT AREAS ARE AS SHOWN ON DRAWING.
8. THIS PROPERTY IS IN THE LA PORTE COMMUNITY SCHOOL DISTRICT - HAILMANN ELEMENTARY SCHOOL, KESLING INTERMEDIATE SCHOOL, LA PORTE MIDDLE SCHOOL, AND LA PORTEHIGH SCHOOL.
9. THE SOILS ON THIS PROPERTY ARE ChB Charlton-Hollis-Rock (K=0.17), EsB Elston (K=0.28), HkA Haskins (K=0.37), TcA TRACY (K=0.24), TcB TRACY (K=0.24), TcC2 TRACY (K=0.10), TcD2 TRACY (K=0.10), Wh WHITAKER (K=0.37).
10. ALL GRAVITY SANITARY SEWERS SHALL BE 8" DIAMETER SDR-26
11. ALL WATERLINES SHALL BE 8" DIAMETER DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.
12. ALL LOTS SHALL BE SERVED BY SANITARY SEWER.
13. ALL LOTS SHALL BE SERVED BY WATER SERVICE.
14. INTERIOR STREETS SHALL BE 30' WIDE - ASPHALT WITH CONCRETE CURB AND GUTTER.
15. SIDEWALKS SHALL BE 5' WIDE WITH HANDICAP RAMPS.
16. OUTLOTS "A", AND "B" SHALL BE DRAINAGE, AND UTILITY EASEMENT.
17. THE SUBDIVISION SPEED LIMIT SHALL BE POSTED AT 20 mph AND ALL MUTCD REQUIRED SIGNAGE (SPEED LIMIT, STOP SIGN, STREET NAMES, ASPHALT MARKINGS, ETC.) WILL BE PROVIDED BY THE DEVELOPER. STOP SIGNS TO BE PLACED AT THE EXITS OF DEER TRAIL LANE FROM THE SUBDIVISION AND AT LOCATIONS DETERMINED. BY THE STREET COMMISSIONER.
18. WARNING AND REGULATORY SIGNS SHALL BE PLACED ACCORDING TO THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST ADDITION. THE SIGNS SHALL HAVE REFLECTIVITY.
19. AREAS:  
 SUBDIVISION = 811,483.0 SQ. FT. = 18.63 ± ACRES  
 RIGHT OF WAY = 307,207.6 SQ. FT. = 7.05 ± ACRES  
 OUTLOTS = 370,301.5 SQ. FT. = 8.547 ± ACRES  
 TOTAL = 34.227 ± ACRES
20. CURBS WILL BE STAMPED WITH AN "S" AT THE LOCATION OF THE SANITARY SEWER LATERALS.
21. ALL SANITARY SEWERS LATERALS SHALL BE 6" DIAMETER PVC SDR-26.
22. SIDE YARD UTILITY AND DRAINAGE EASEMENTS OF ADJOINING LOTS IS 6 FT AND 6 FT UNLESS OTHERWISE SHOWN.
23. SEE LOW-PRESSURE SYSTEM DETAILS FOR TYPICAL GRINDER STATION EASEMENTS.
24. NO PHASING OF PROJECT.
25. PROPOSED STARTING DATE OF PROJECT JUNE 1, 2024 AND ENDING DATE SEPTEMBER 30, 2025.
26. 34.227 ± TOTAL ACRES WITH 13 LOTS/ UNITS (R1C); 29 LOTS/ 95 UNITS (R2B), 52 UNITS (R3A).
27. SEE DRAINAGE REPORT FOR STORM WATER DRAINAGE CALCULATIONS.
28. THE DESIGN FOR THIS PROJECT WAS BASED ON THE 2017 CITY OF LA PORTE REVISED JOINT ZONING ORDINANCE DESIGN & DEVELOPMENT STANDARDS, WHICH WERE ADOPTED ON MAY 16, 2016.
29. VISION CLEARANCE: A VISION CLEARANCE TRIANGLE WILL BE MAINTAINED AT EVERY INTERSECTION OF RIGHT-OF-WAY AND/OR DRIVEWAY. THE TRIANGLE LEG LENGTHS WILL BE TWENTY-FIVE (25) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF TWO (2) STREET RIGHTS-OF-WAY AND FIFTEEN (15) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF A PRIVATE DRIVEWAY AND STREET RIGHT-OF-WAY. NO FENCING, WALLS, STRUCTURES OR SIGNS ARE PERMITTED TO BE PLACED OR TO PROJECT INTO THE VISION CLEARANCE TRIANGLE. LANDSCAPE MATERIALS ARE PERMITTED WITHIN THE VISION CLEARANCE TRIANGLE, BUT SHALL NOT EXCEED A MATURE HEIGHT OF THREE (3) FEET ABOVE THE STREET CURB.
30. THE CONTRACTOR SHALL ASSESS NECESSARY UTILITY SUPPORTS OR RELOCATION OF UTILITIES BEFORE CONSTRUCTION STARTS.
31. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
32. ALL RADII AND OTHER DIMENSIONS FOR 6" STANDING CURB AND CONCRETE CURB AND WALK ARE TO THE FACE OF CURB AND/OR EDGE OF WALK.
33. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK OR FACING MATERIAL WHERE APPLICABLE.
34. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE. REFER TO RECORDED PLATS AND SURVEYS FOR ADDITIONAL PROPERTY INFORMATION.
35. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.

36. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
37. SIDEWALK EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES AND CONTROL JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 5' INTERVALS OR LESS WITH AN EXPANSION JOINT EVERY 30' OR LESS.
38. PARKING SPACE STRIPES SHALL BE 4 INCHES WIDE. YELLOW OR WHITE STRIPES SHALL BE PROVIDED AT OWNER'S PREFERENCE UNLESS OTHERWISE SHOWN.
39. UNLESS OTHERWISE SHOWN, PERMANENT SIGNS SHALL BE MOUNTED ON A SINGLE U-CHANNEL DRIVE POST DRIVEN 42 INCHES BELOW GRADE, THE BOTTOM EDGE OF THE SIGN SHALL BE 6 FEET ABOVE THE NEAREST PAVEMENT EDGE ELEVATION.
40. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SODDED/SEEDED AREAS SHALL HAVE 4" TO 6" TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.
41. MANHOLE CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 12 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.
42. RESURFACE OR Reconstruct AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS HAVE DAMAGED EXISTING PAVEMENT, LAWNS OR OTHER IMPROVEMENTS DURING CONSTRUCTION, AFTER CONSTRUCTION WORK IS COMPLETE.
43. FOR AREAS OUTSIDE THE PROPERTY LINES, REPAIR AND/OR REPLACE ALL DAMAGE DONE TO EXISTING ELEMENTS (SIDEWALKS, PAVING, LANDSCAPING, ETC.) AS REQUIRED BY OWNER AND/OR GOVERNING AUTHORITY.
44. ALL SIDEWALK CURB AND GUTTER STREET PAVING, CURS CUTS, DRIVEWAY APPROACHES, HANDICAP RAMP, ETC. Constructed OUTSIDE THE PROPERTY LINE IN THE RIGHT-OF-WAY SHALL CONFORM TO ALL MUNICIPAL AND/OR STATE SPECIFICATIONS AND REQUIREMENTS.
45. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
46. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
47. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S Responsibility TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED.
48. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANCES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
49. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
50. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
51. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
52. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
53. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE OWNER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.
54. FOR PROPOSED GRADING AND TOPOGRAPHY, SEE THE GRADING PLAN.
55. FOR PROPOSED UTILITY LOCATIONS, SEE THE UTILITY PLAN.

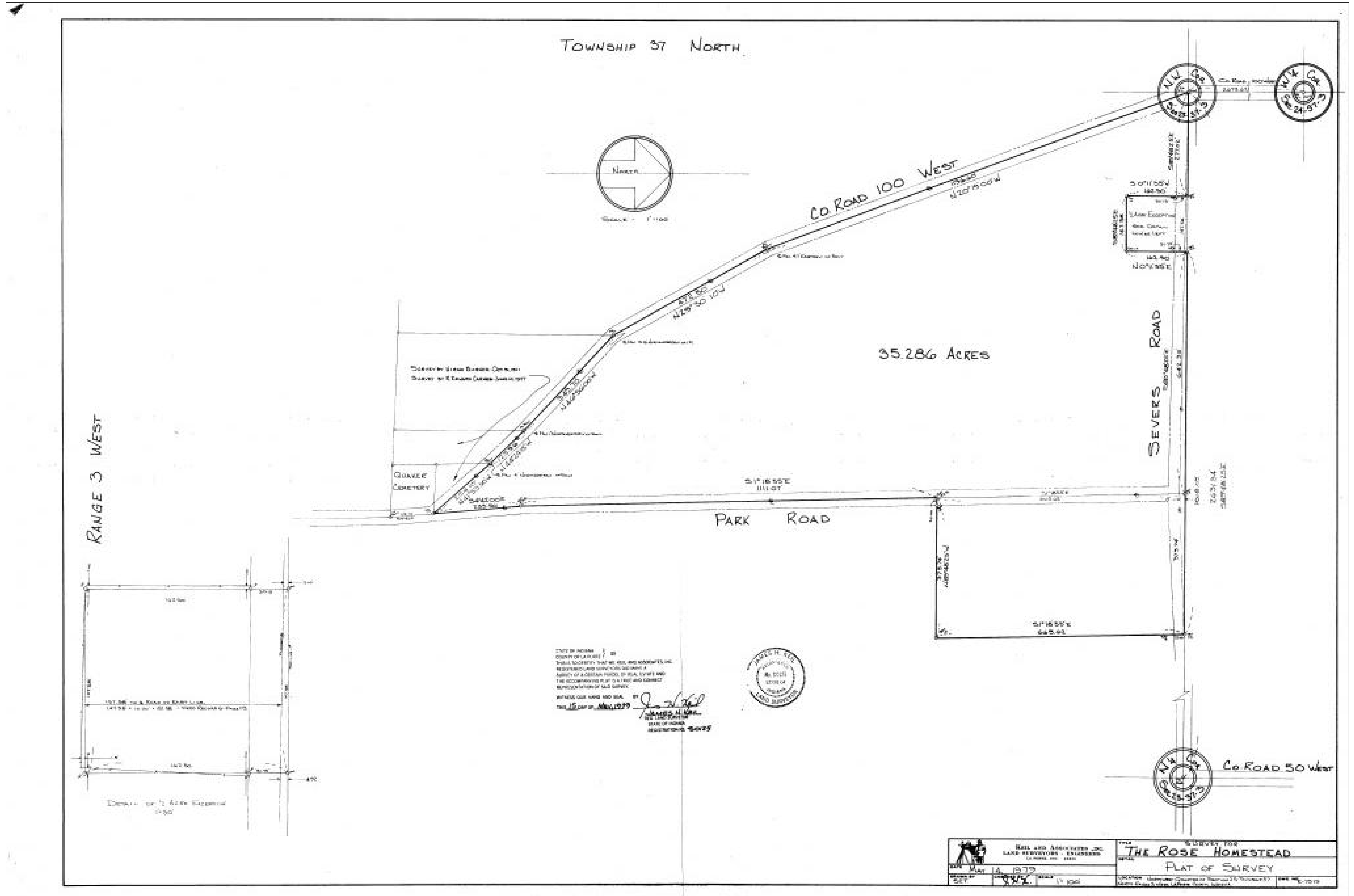
MASTER LEGEND

---XXX---	EXISTING CONTOUR	---XXX---	PROPOSED CONTOURS
---FM---	EXISTING SANITARY FORCE MAIN	---W---	PROPOSED WATER LINE
---E---	EXISTING ELECTRIC (BURIED)	---PSAN---	PROPOSED SANITARY LINE
---G---	EXISTING GAS LINE (BURIED)	---FM---	PROPOSED FORCEMAIN
---T---	EXISTING TELEPHONE (BURIED)	---LAT---	PROPOSED STORM SEWER
---OH---	EXISTING OVERHEAD LINES	---LAT---	PROPOSED SANITARY LATERAL
---O---	EXISTING FENCE	---O---	PROPOSED E-ONE SANITARY LINE
---T---	EXISTING TREE LINE	---O---	PROPOSED E-ONE PUMP STATION AND LATERAL
---P---	EXISTING POWER POLE	---S---	PROPOSED SANITARY MANHOLE
---A---	EXISTING GUY ANCHOR	---C---	PROPOSED CLEAN-OUT
---S---	EXISTING SIGN	---M---	PROPOSED DRAINAGE MANHOLE
---I---	EXISTING STORM INLET	---C---	PROPOSED CURB INLET/CATCH BASIN
---P---	EXISTING PIPELINE MARKER	---Y---	PROPOSED YARD INLET
---M---	EXISTING MANHOLE (UNKNOWN USE)	---F---	PROPOSED FIRE HYDRANT
---M---	EXISTING MAILBOX	---W---	PROPOSED WATER VALVE
---T---	EXISTING TREE (DIAMETER IN INCHES)	---S---	PROPOSED SWALE/GRASS LINED CHANNEL
---T---	EXISTING EVERGREEN TREE (DIAMETER IN INCHES)	---S---	PROPOSED RIP-RAP OUTLET/ENERGY DISSIPATER
---B---	EXISTING SOIL BORING	---D---	PROPOSED DIRECTION OF DRAINAGE FLOW
---G---	EXISTING GAS MARKER	---A---	PROPOSED ADDRESS
---T---	EXISTING TELECOM. LINE MARKER	---W---	PROPOSED WELL
---F---	EXISTING FIBER OPTIC MARKER	---G---	PROPOSED GARAGE FLOOR ELEVATION
---F---	EXISTING FIBER OPTIC VAULT	---S---	PROPOSED SPOT ELEVATION
---S---	EXISTING SANITARY MANHOLE	---C---	PROPOSED CENTERLINE OF PAVEMENT ELEVATION
---O---	PROPOSED STORM CLEANOUT	---S---	EXISTING SOIL TYPE SEPERATION LINE
---W---	EXISTING WETLAND AREA	---X---	EXISTING SOIL TYPE
		---X---	RIGHT OF WAY LINE



<p><b>DUNELAND GROUP</b> ENGINEERING &amp; SURVEYING 1498 POPE COURT CHESTERTON, INDIANA 46304 Ph: 219-926-1007 E-MAIL: dgi@dunelandgroup.com</p>	<p>Know what's below. Call before you dig.</p>	DRAWN: SCC DESIGNED: AIR DATE: 4/19/2024 HORIZ. SCALE: 1"=60' VERT. SCALE: N/A PROJECT STATUS: PRELIMINARY	CHK'D: SCC APPR'D: CLR No. 12100418 INDIANA PROFESSIONAL ENGINEER	NO. [ ] REVISION [ ] BY [ ] DATE [ ]	STORM [ ] SANITARY [ ] WATER [ ] ROAD [ ] EROSION [ ]	CITY OF LA PORTE HUNTER WOODS NOTE SHEET	INDIANA SHEET C-1 PROJECT NUMBER: 3139 DRAWING NUMBER: 3139.000.1
						CITY OF LA PORTE HUNTER WOODS NOTE SHEET	





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DRAWN: AIR	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	Δ				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=N/A'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						

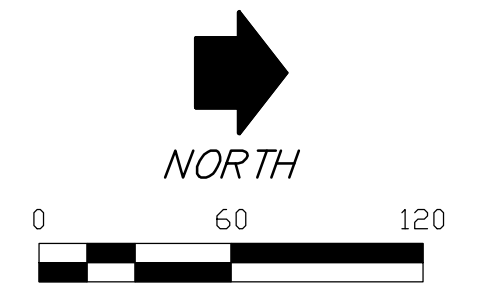
CITY OF LAPORTE

HUNTER WOODS  
 BOUNDARY EXHIBIT

INDIANA

SHEET P-1  
 PROJECT NUMBER 3139  
 DRAWING NUMBER 3139.000

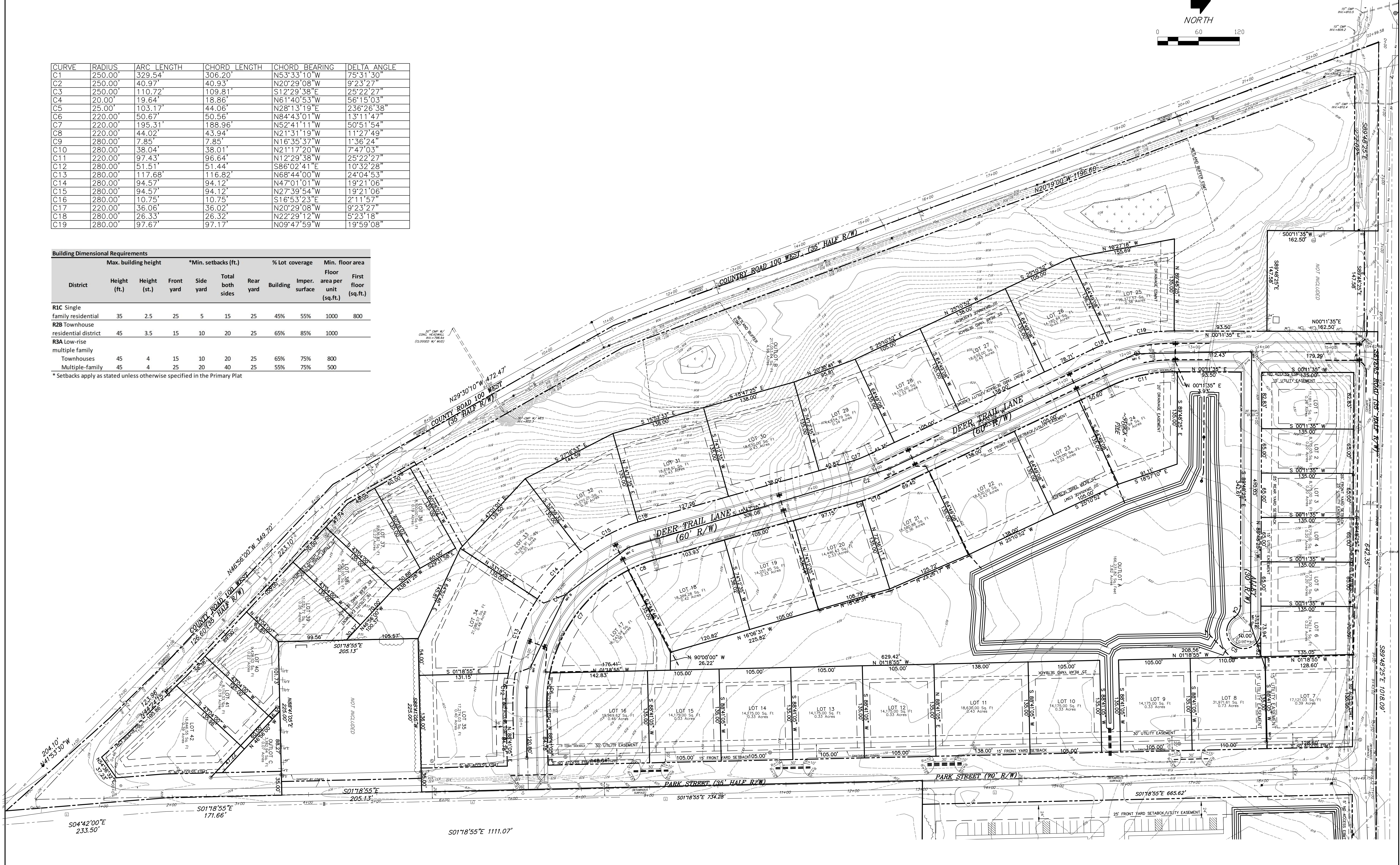




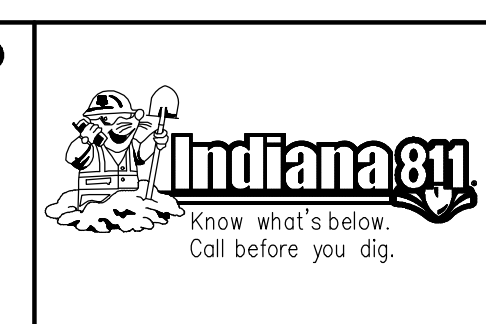
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	250.00'	329.54'	306.20'	N53°33'10"W	75°31'30"
C2	250.00'	40.97'	40.93'	N20°29'08"W	9°23'27"
C3	250.00'	110.72'	109.81'	S12°29'38"E	25°22'27"
C4	20.00'	19.64'	18.86'	N61°40'53"W	56°15'03"
C5	25.00'	103.17'	44.06'	N28°13'19"E	236°26'38"
C6	220.00'	50.67'	50.56'	N84°43'01"W	13°11'47"
C7	220.00'	195.31'	188.96'	N52°41'11"W	50°51'54"
C8	220.00'	44.02'	43.94'	N21°31'19"W	11°27'49"
C9	280.00'	7.85'	7.85'	N16°35'37"W	1°36'24"
C10	280.00'	38.04'	38.01'	N21°17'20"W	7°47'03"
C11	220.00'	97.43'	96.64'	N12°29'38"W	25°22'27"
C12	280.00'	51.51'	51.44'	S86°02'41"E	10°32'28"
C13	280.00'	117.68'	116.82'	N68°44'00"W	24°04'53"
C14	280.00'	94.57'	94.12'	N47°01'01"W	19°21'06"
C15	280.00'	94.57'	94.12'	N27°39'54"W	19°21'06"
C16	280.00'	10.75'	10.75'	S16°53'23"E	2°11'57"
C17	220.00'	36.06'	36.02'	N20°29'08"W	9°23'27"
C18	280.00'	26.33'	26.32'	N22°29'12"W	5°23'18"
C19	280.00'	97.67'	97.17'	N09°47'59"W	19°59'08"

Building Dimensional Requirements									
District	Max. building height		*Min. setbacks (ft.)			% Lot coverage		Min. floor area	
	Height (ft.)	Height (st.)	Front yard	Side yard	Total both sides	Rear yard	Building	Imper. surface	First floor (sq.ft.)
<b>R1C</b> Single family residential	35	2.5	25	5	15	25	45%	55%	1000 800
<b>R2B</b> Townhouse residential district	45	3.5	15	10	20	25	65%	85%	1000
<b>R3A</b> Low-rise multiple family									
Townhouses	45	4	15	10	20	25	65%	75%	800
Multiple-family	45	4	25	20	40	25	55%	75%	500

\* Setbacks apply as stated unless otherwise specified in the Primary Plat



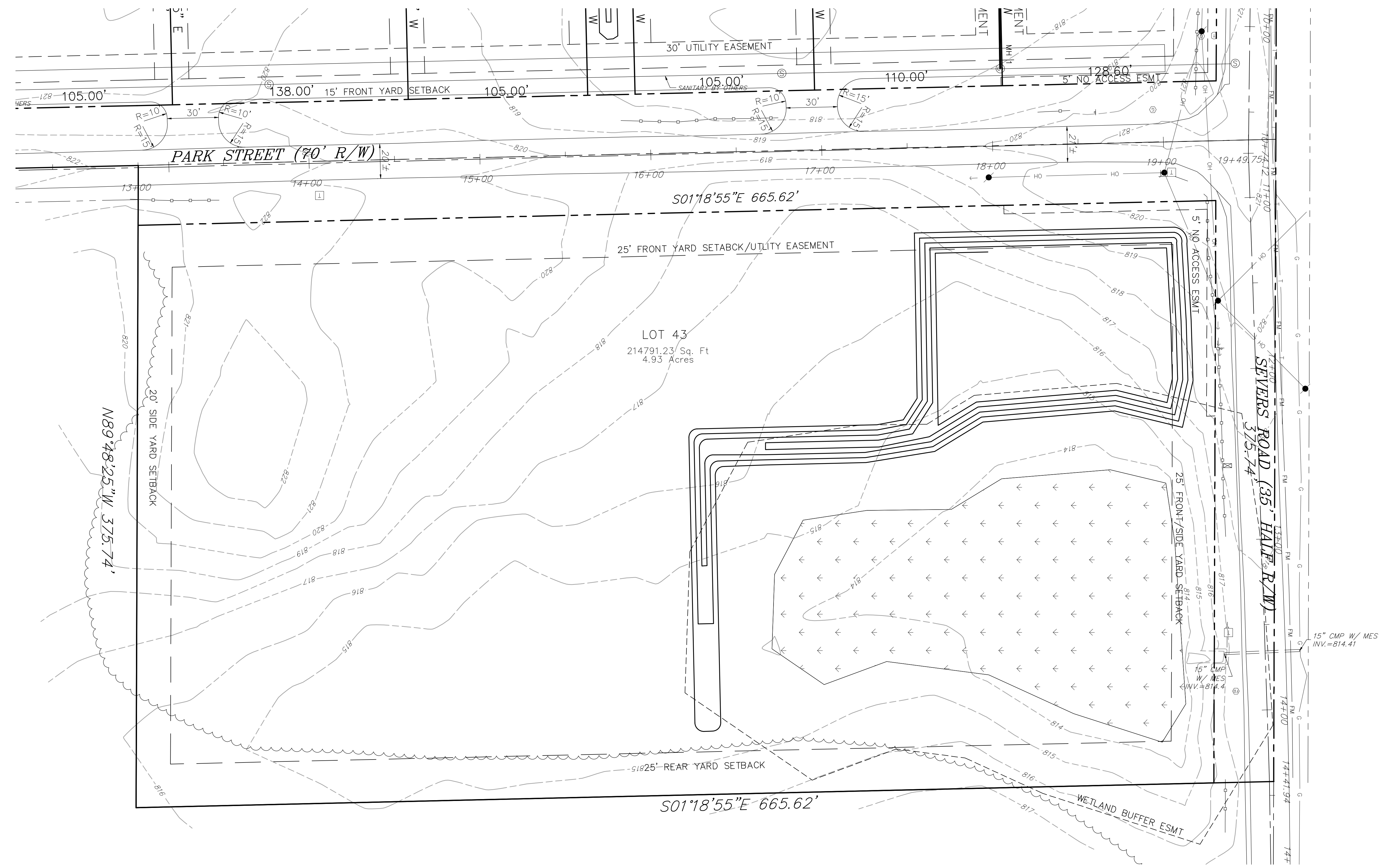
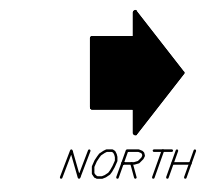
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DESIGNED: AIR	APPR'VD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=60'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						

CITY OF LA PORTE	INDIANA	SHEET C-2
<b>HUNTER WOODS</b>		PROJECT 3139
<b>PRIMARY PLAT- WEST SIDE</b>		NUMBER
		DRAWING NUMBER
		3139.000.2





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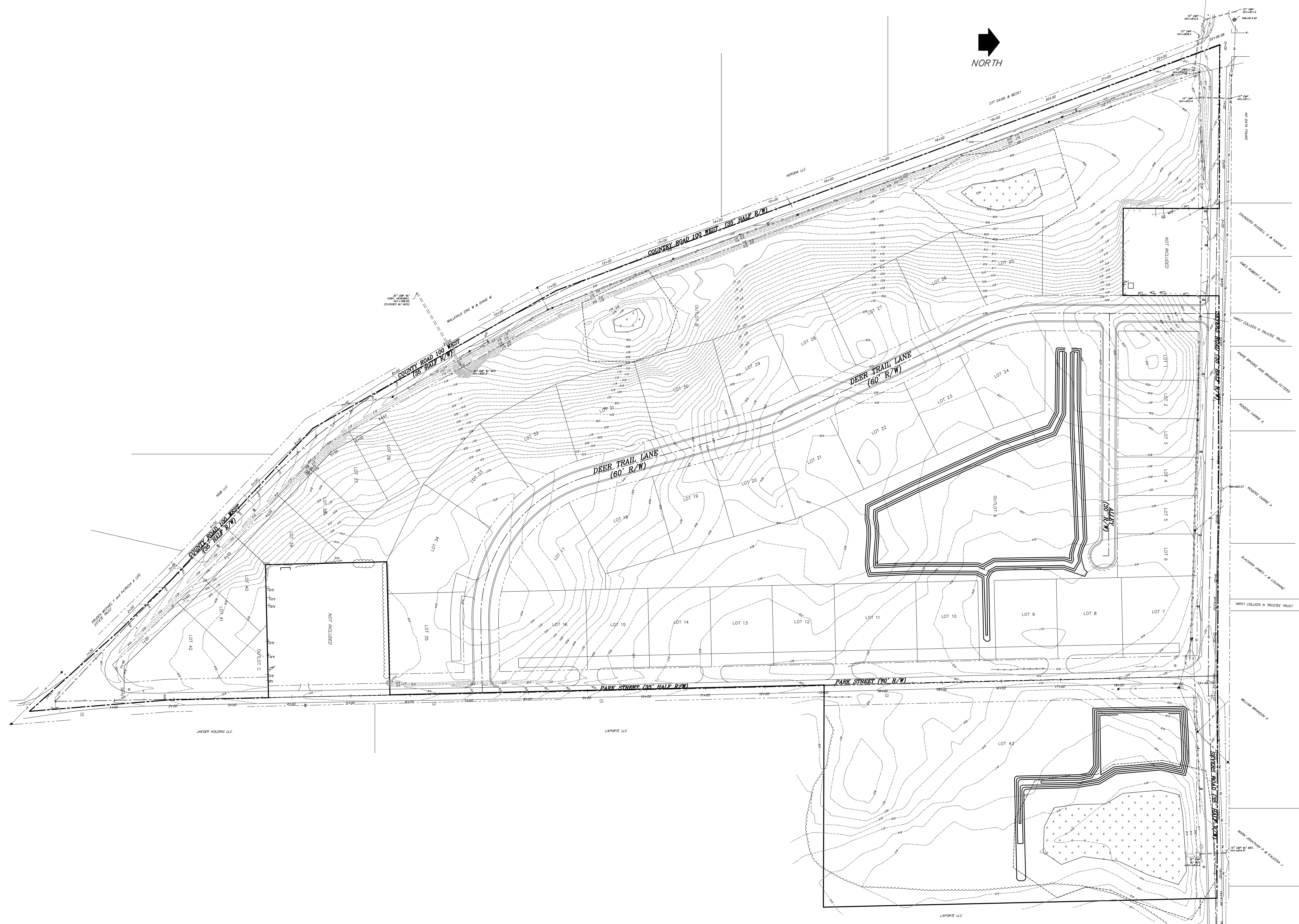
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1	DESIGNED: SCC		
2	CHK'D: SCC		
3	NO. APPROV'D: CLR		
4	DATE: 4/19/2024		
5	HORIZ. SCALE: 1"=30'		
6	VERT. SCALE: N/A		
7	PROJECT STATUS		
8	PRELIMINARY		

STORM	SANITARY	WATER	ROAD	EROSION

CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
**PRIMARY PLAT - EAST SIDE**

SHEET **C-3**  
 PROJECT NUMBER 3139  
 DRAWING NUMBER 3139.000.3





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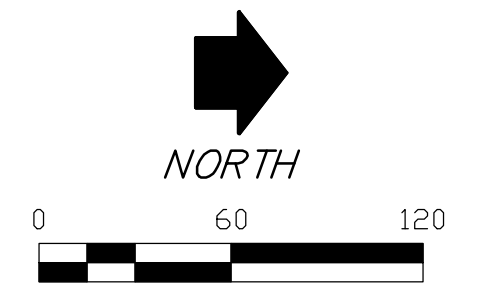
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DATE: 4/19/2024						WATER
HORIZ. SCALE: N/A						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
**ADJACENT PROPERTY OWNERS**

SHEET C-4  
 PROJECT NUMBER 3139  
 DRAWING NUMBER 3139.000.4





DATE OF SURVEY: FEBRUARY 26, 2024.

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DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=60'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						

CITY OF LA PORTE INDIANA

**HUNTER WOODS**

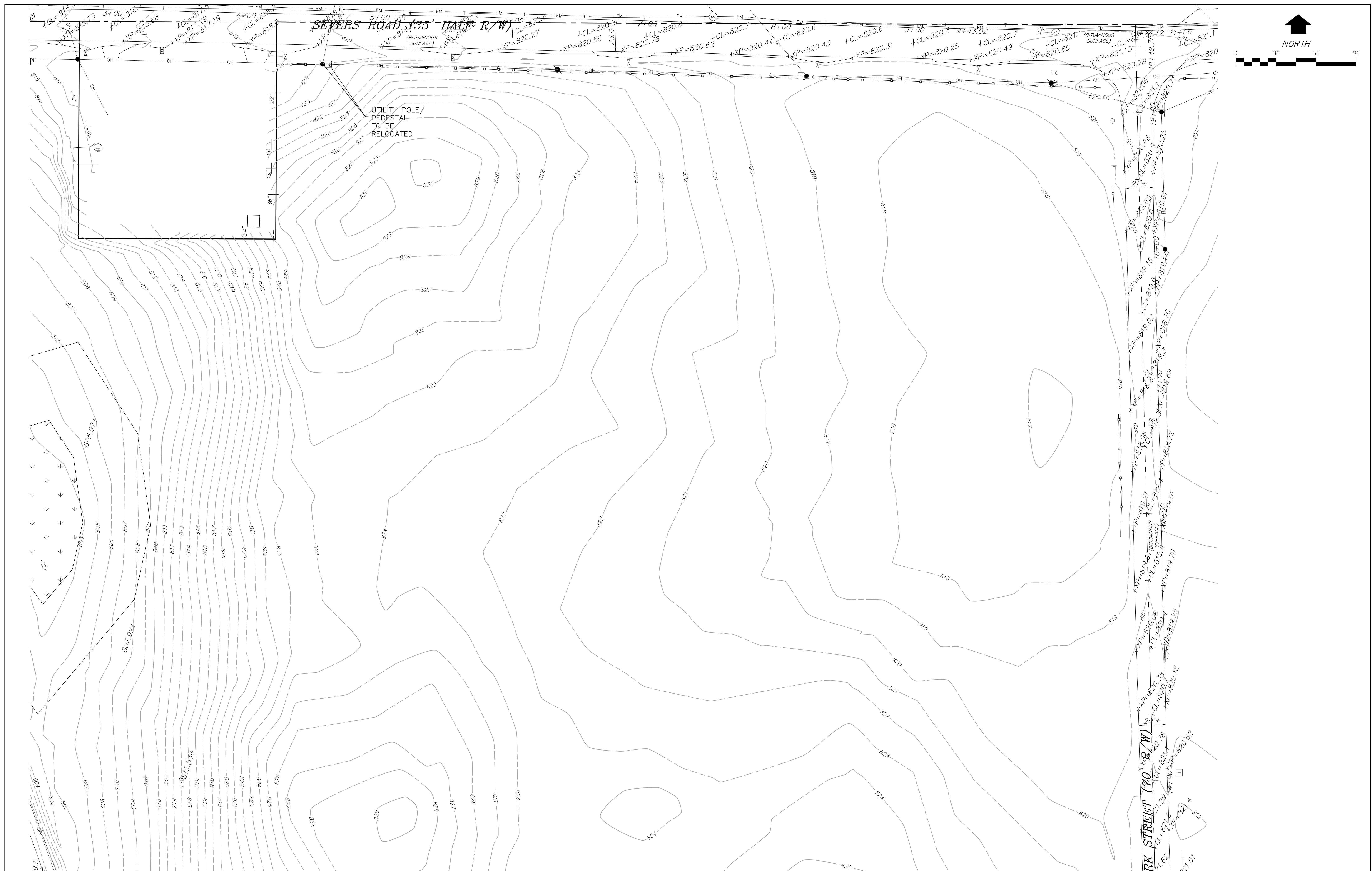
**EXISTING CONDITIONS – WEST SIDE**

SHEET C-5

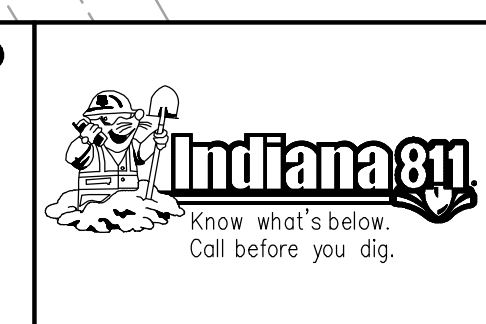
PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.5

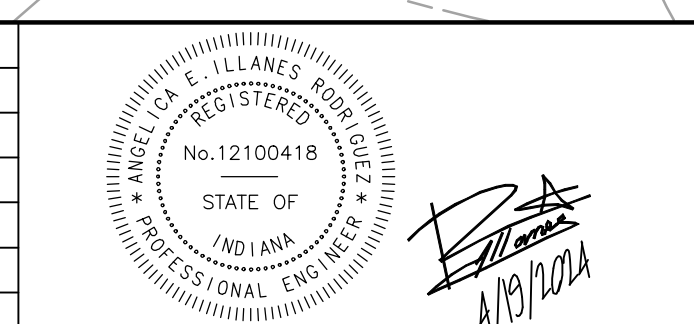




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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPR'VD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

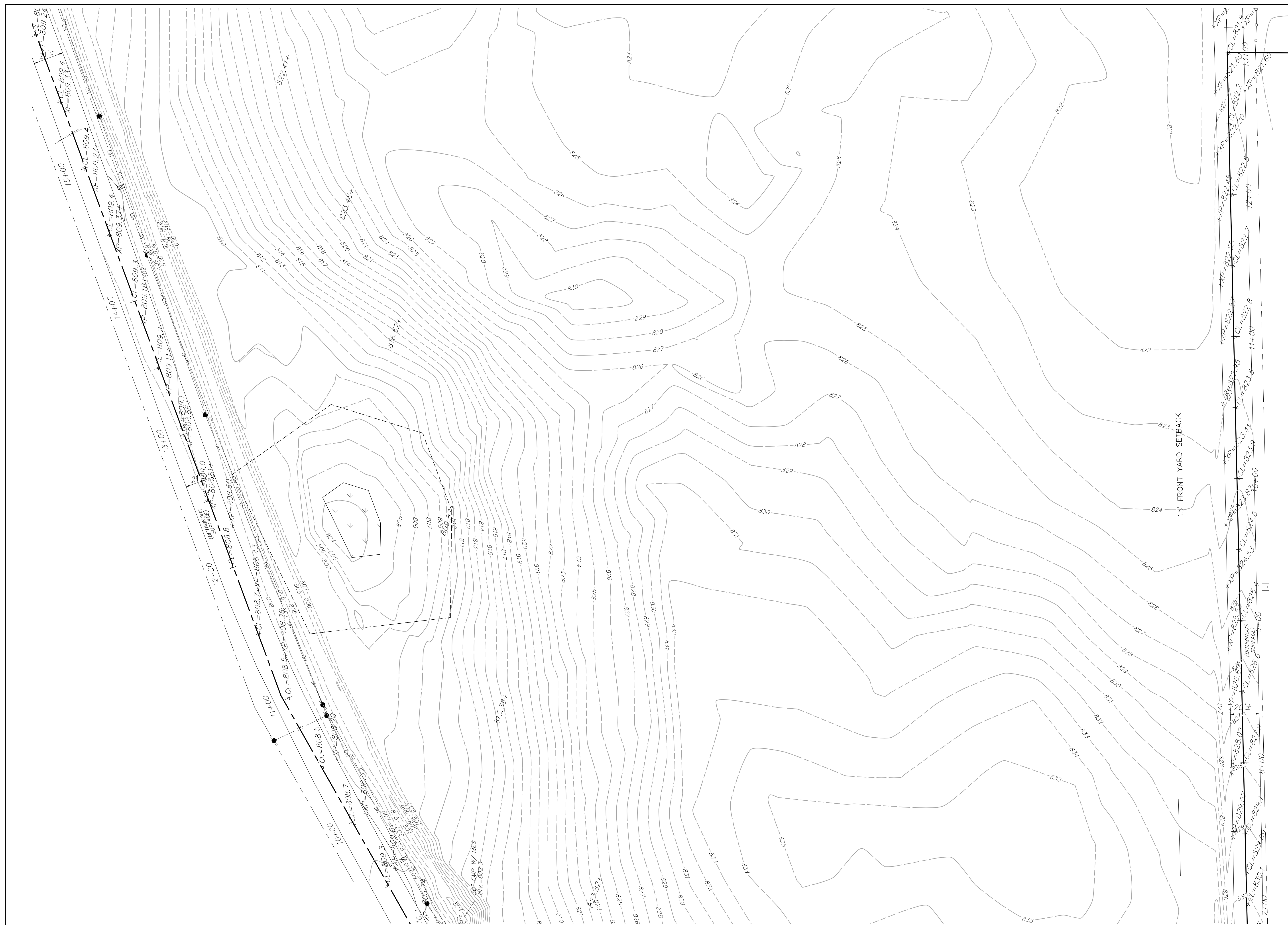
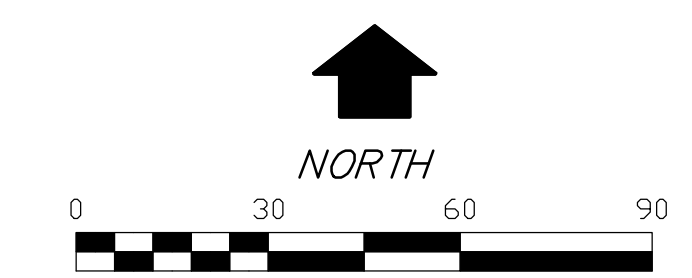
## HUNTER WOODS

**EXISTING CONDITIONS ENLARGED - WEST SIDE**

SHEET **C-6**

PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.6

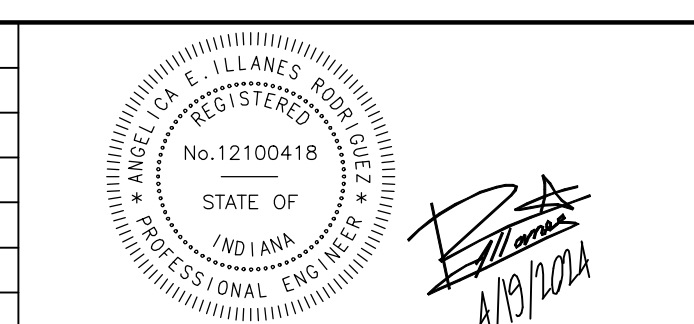




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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



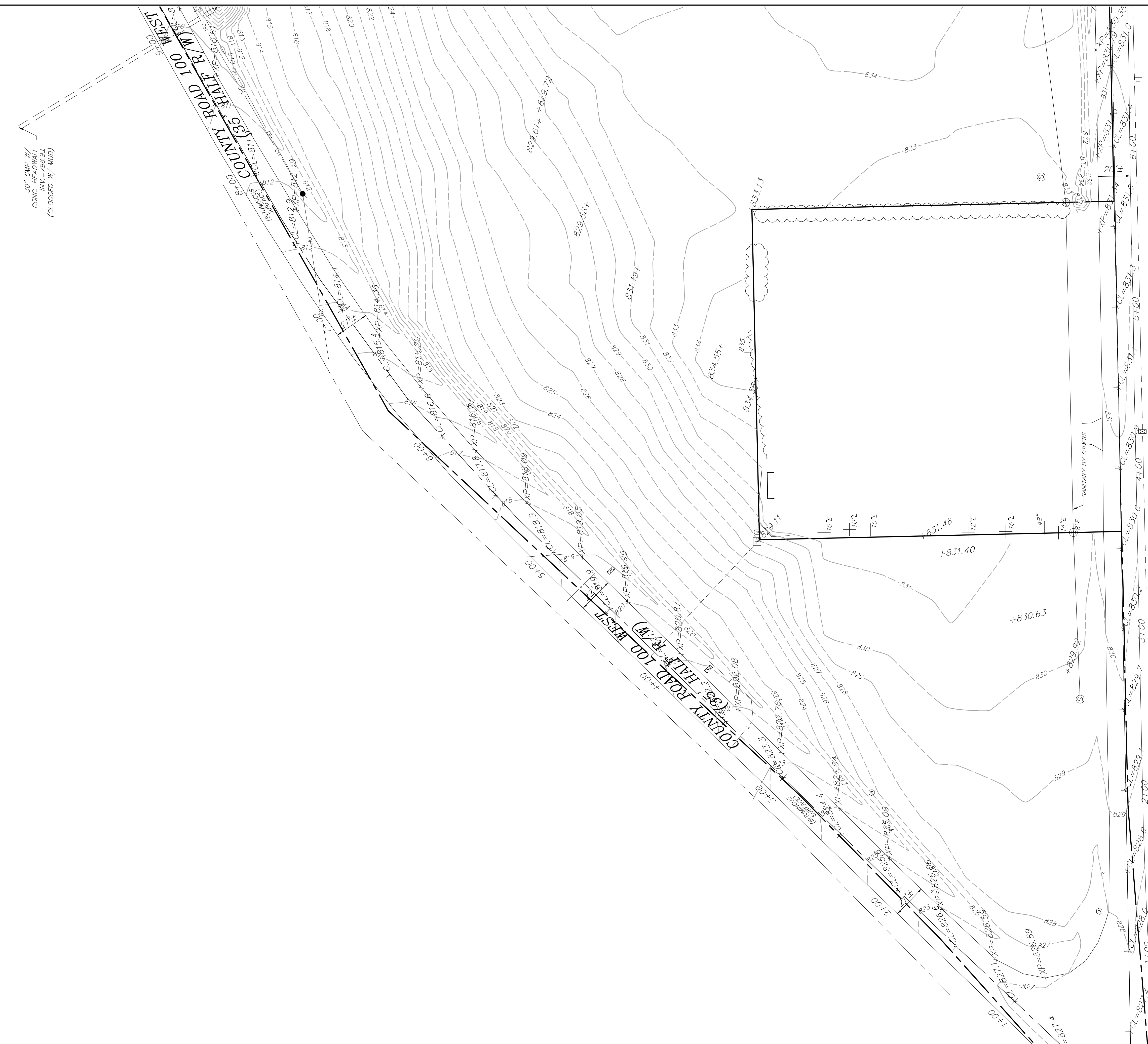
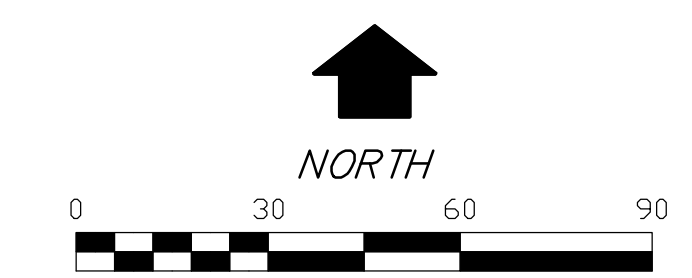
CITY OF LA PORTE INDIANA

## HUNTER WOODS

### EXISTING CONDITIONS ENLARGED - WEST SIDE

SHEET C-7	PROJECT NUMBER 3139
DRAWING NUMBER 3139.000.7	

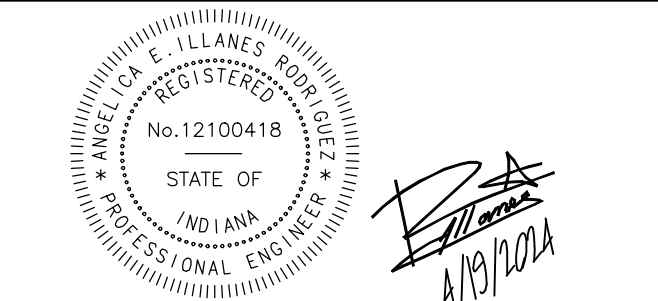




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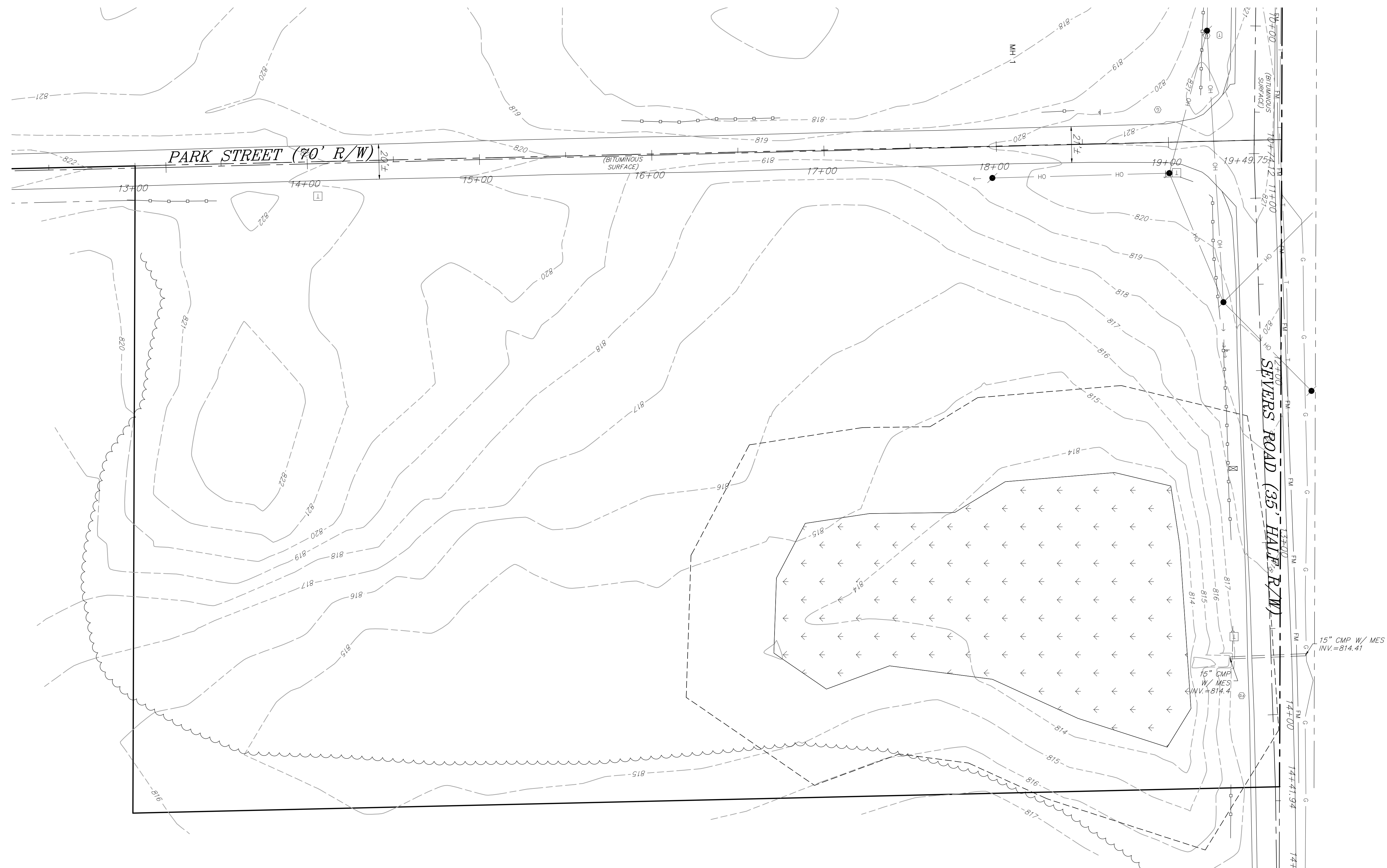
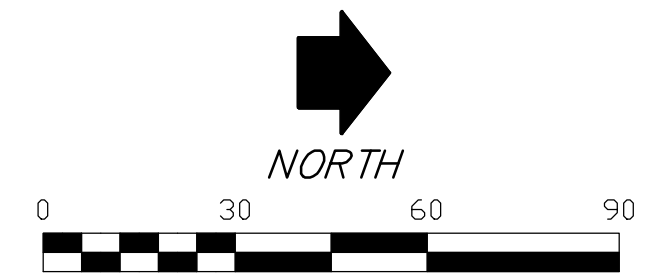
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SCC	SCC					SANITARY
DESIGNED: AIR	APPRVD: CLR					WATER
DATE: 4/19/2024						ROAD
HORIZ. SCALE: 1"=30'						EROSION
VERT. SCALE: N/A						
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
 EXISTING CONDITIONS ENLARGED - WEST SIDE

SHEET C-8  
 PROJECT NUMBER 3139  
 DRAWING NUMBER 3139.000.8

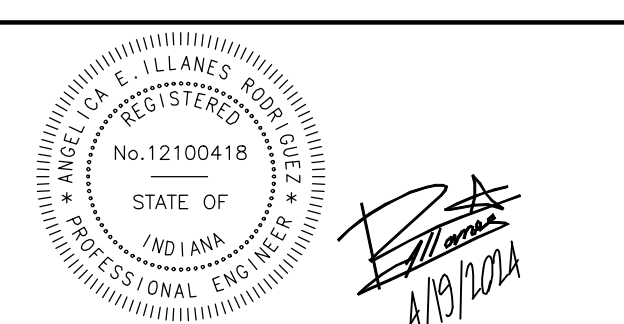




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DRAWN:	CHK'D:	NO.	REVISION	BY	DATE	STORM
SCC	SCC					
DESIGNED: AIR	APPRVD: CLR					SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

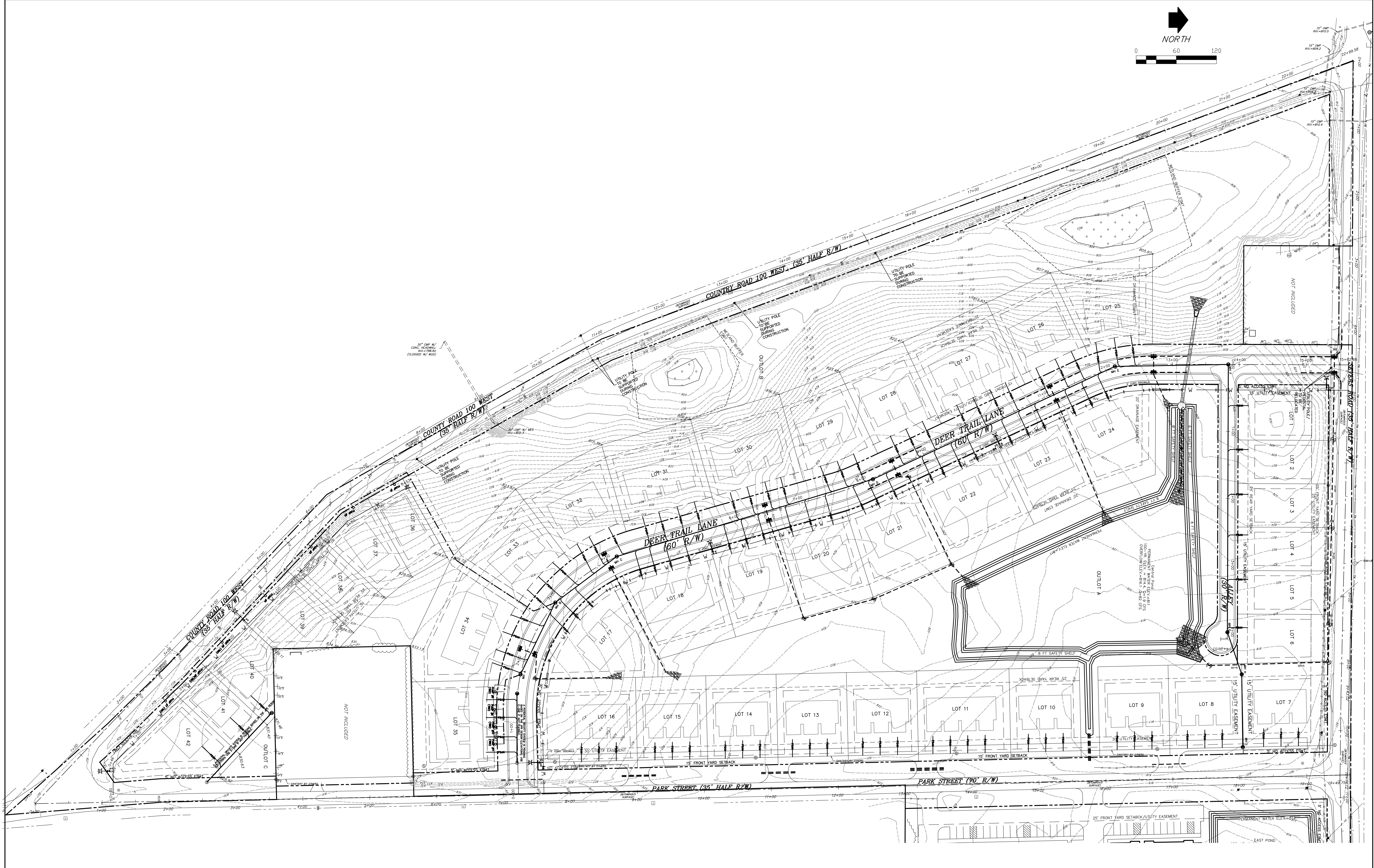
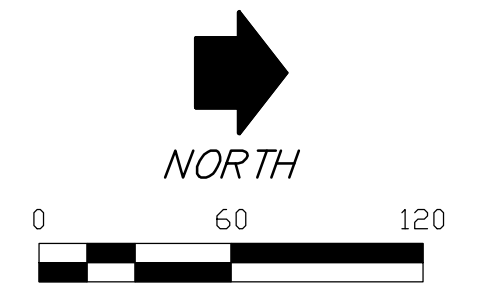
**EXISTING CONDITIONS – EAST SIDE**

SHEET **C-9**

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.9

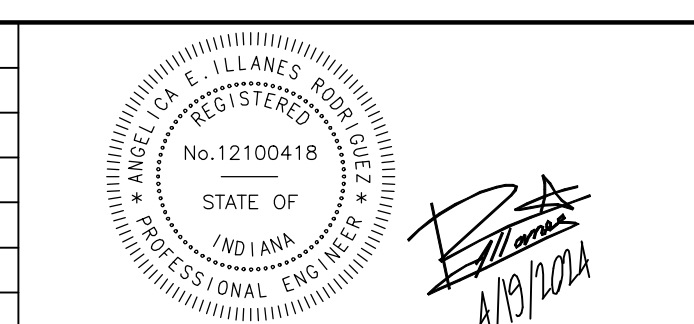




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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPR'D: CLR	▲				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=60'						ROAD
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PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

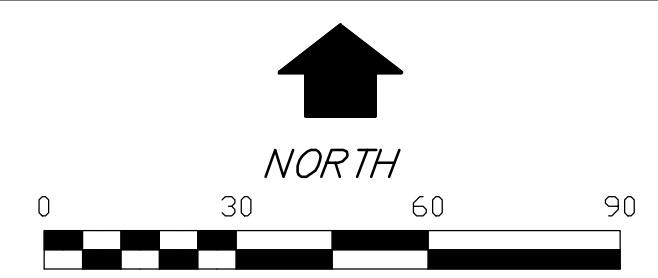
**UTILITY PLAN OVERALL – WEST SIDE**

SHEET C-10

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.10

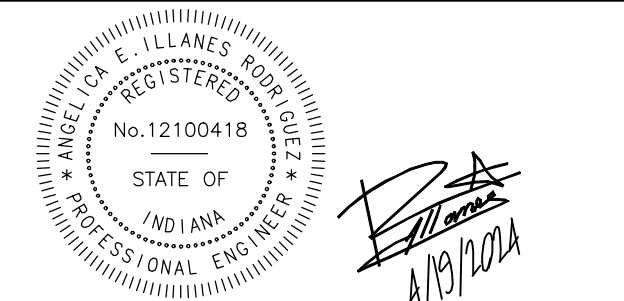




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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS: PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

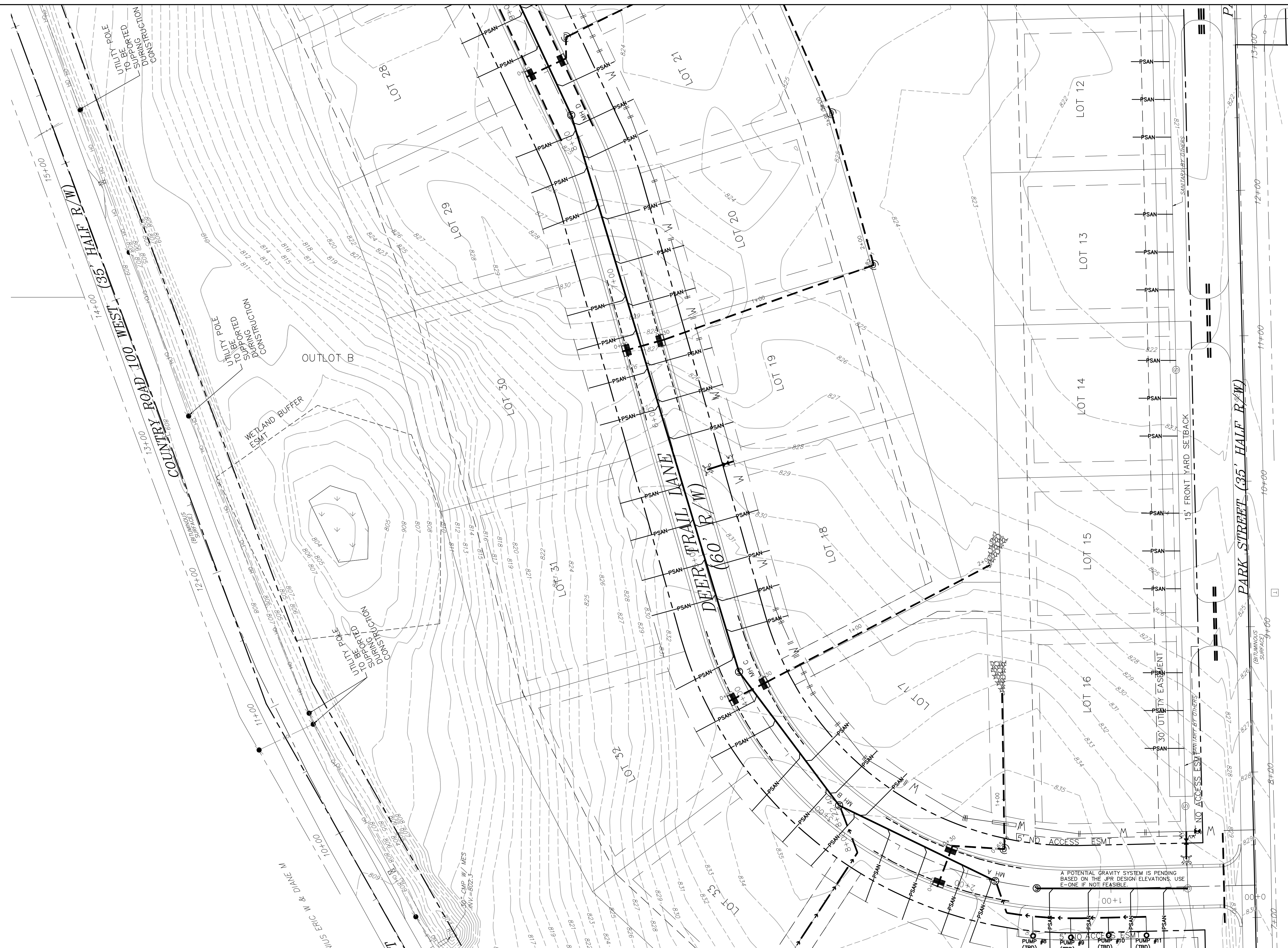
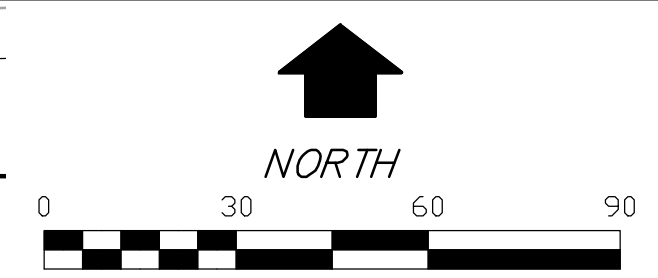
UTILITY PLAN ENLARGED - WEST SIDE

SHEET C-11

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.11



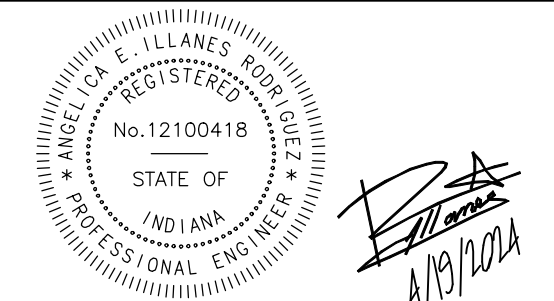


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DESIGNED: AIR	APPR'VD: CLR	△			
DATE: 4/19/2024					
HORIZ. SCALE: 1"=30'					
VERT. SCALE: N/A					
PROJECT STATUS					
PRELIMINARY					

STORM	
SANITARY	
WATER	
ROAD	
EROSION	



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

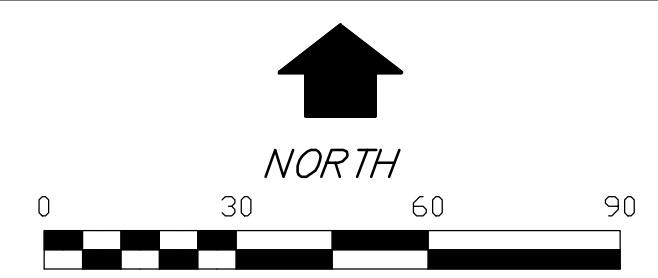
**UTILITY PLAN ENLARGED - WEST SIDE**

SHEET C-12

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.12





30" CMP W/  
CONC. PIPE SHALL  
BE INSTALLED  
(CLOGGED W/ MUD)

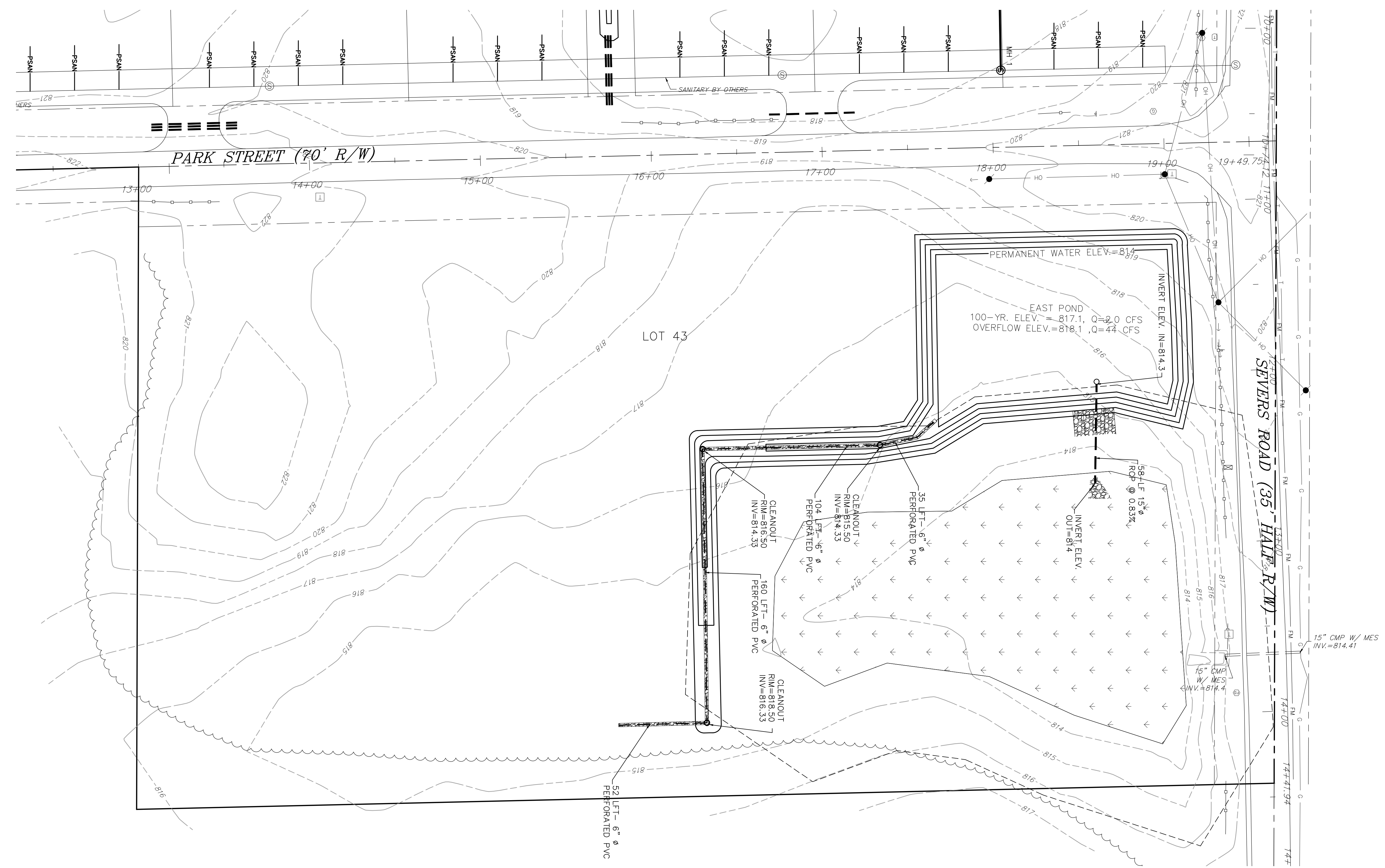
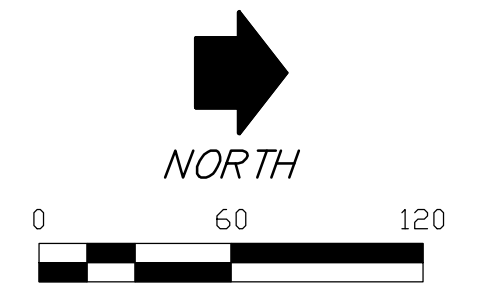
NO.	REVISION	BY	DATE

Rick E. Hill
   
 Professional Engineer

CITY OF LA PORTE <b>HUNTER WOODS</b> INDIANA	SHEET <i>C-13</i>
	PROJECT 3139 NUMBER DRAWING NUMBER 3139.000.13

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		DATE: 4/19/2024 HORIZ. SCALE: 1"=30' VERT. SCALE: N/A PROJECT STATUS PRELIMINARY

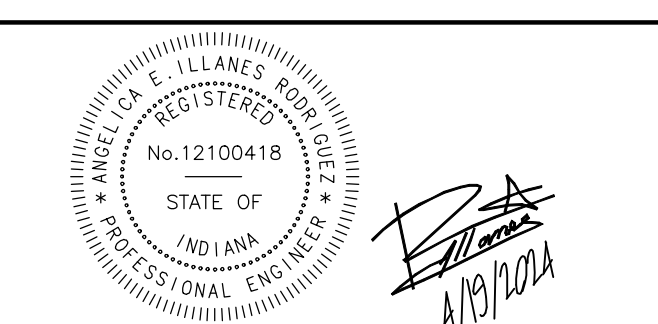




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NO.	REVISION	BY	DATE
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5	DATE: 4/19/2024		
6	HORIZ. SCALE: 1"=30'		
7	VERT. SCALE: N/A		
8	PROJECT STATUS		
9	PRELIMINARY		



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

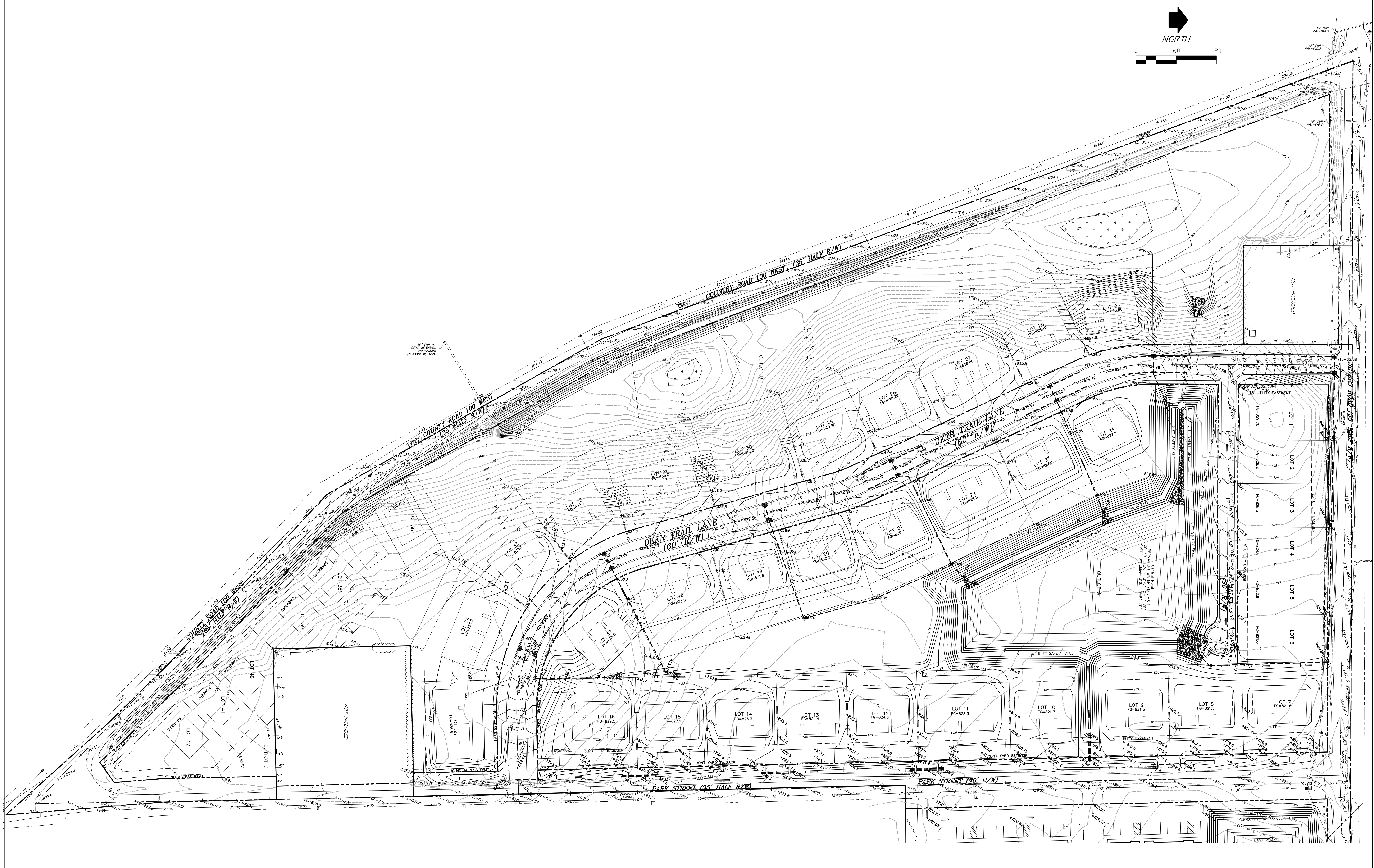
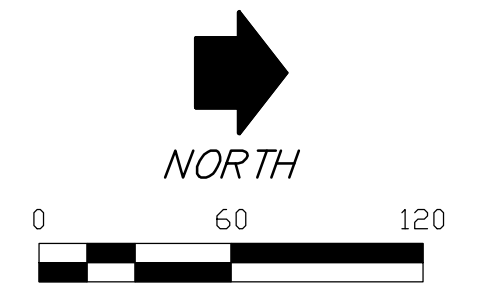
**UTILITY PLAN - EAST SIDE**

SHEET *C-14*

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.14





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 1498 POPE COURT  
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 Ph: 219-926-1007  
 E-MAIL: dgi@dunelandgroup.com

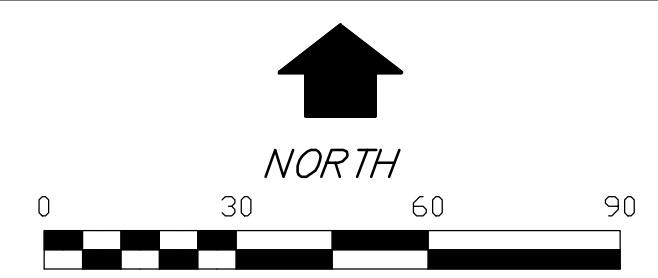


NO.	REVISION	BY	DATE	STORM	EROSION
DESIGNED: AIR	CHK'D: SCC			SANITARY	
DATE: 4/19/2024	APPR'D: CLR			WATER	
HORIZ. SCALE: 1"=60'				ROAD	
VERT. SCALE: N/A					
PROJECT STATUS					
PRELIMINARY					



CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
 GRADING PLAN OVERALL – WEST SIDE  
 SHEET C-15  
 PROJECT NUMBER 3139  
 DRAWING NUMBER 3139.000.15



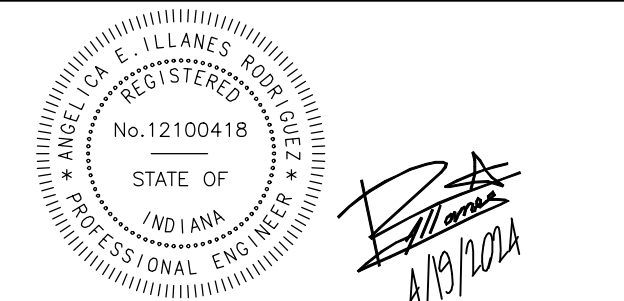


SEE SHEET 29 AND 30 FOR  
PARK AVE. ROAD SIDE DITCH  
PROFILE

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E-MAIL: dgi@dunelandgroup.com



DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LAPORTE

**HUNTER WOODS**

INDIANA

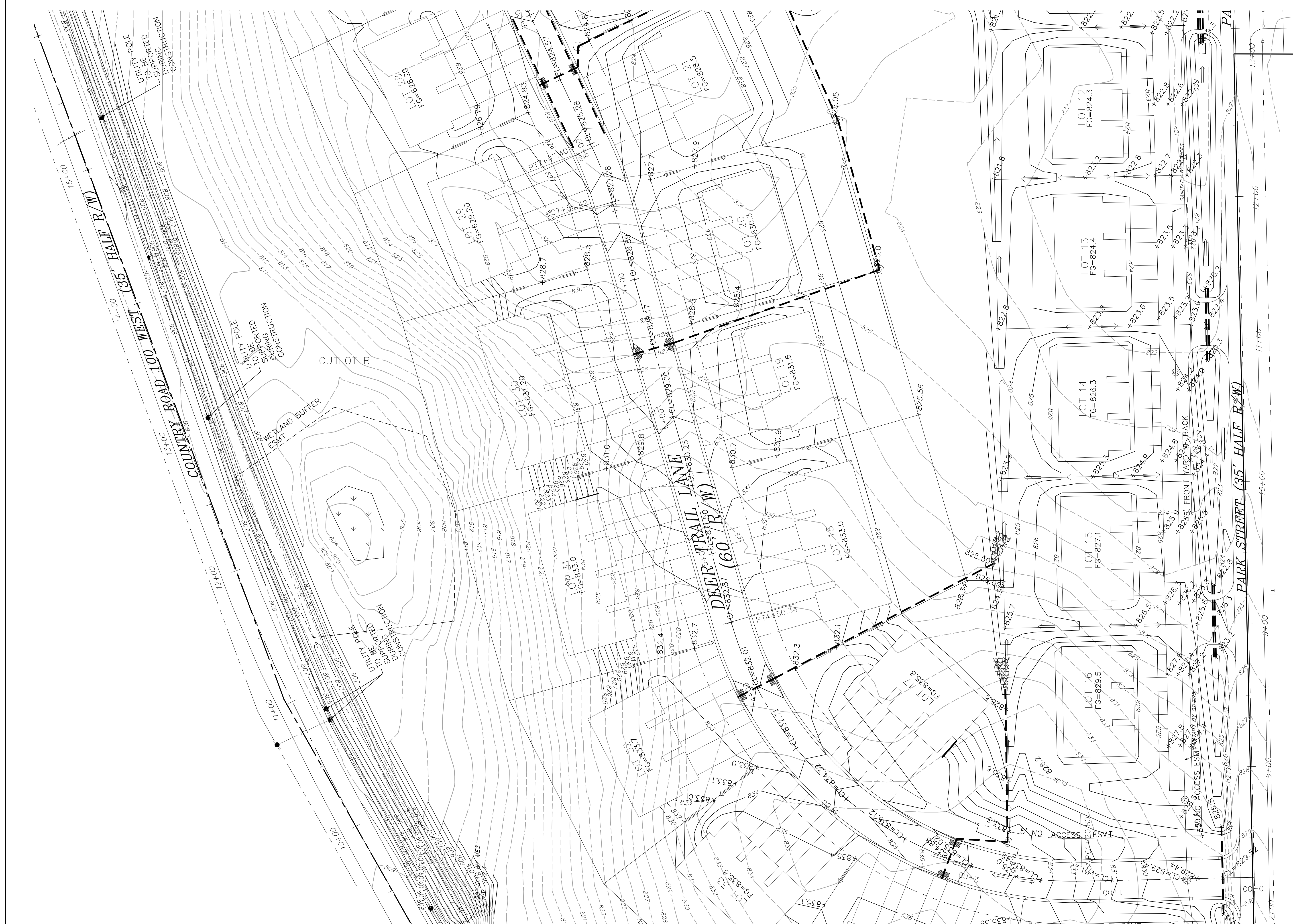
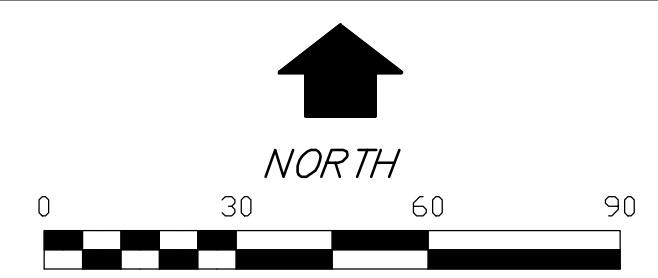
**GRADING PLAN ENLARGED - WEST SIDE**

SHEET C-16

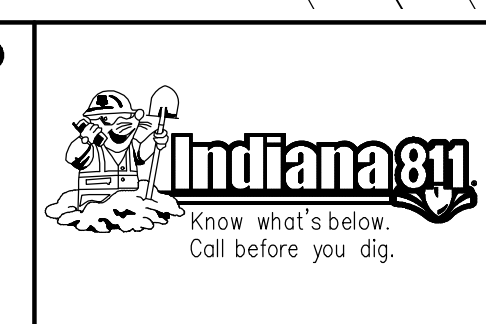
PROJECT 3139  
NUMBER

DRAWING NUMBER  
3139.000.16





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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE
DESIGNED: AIR	APPRVD: CLR	▲			
DATE: 4/19/2024					
HORIZ. SCALE: 1"=30'					
VERT. SCALE: N/A					
PROJECT STATUS: PRELIMINARY					

STORM	
SANITARY	
WATER	
ROAD	
EROSION	

CITY OF LA PORTE

**HUNTER WOODS**

INDIANA

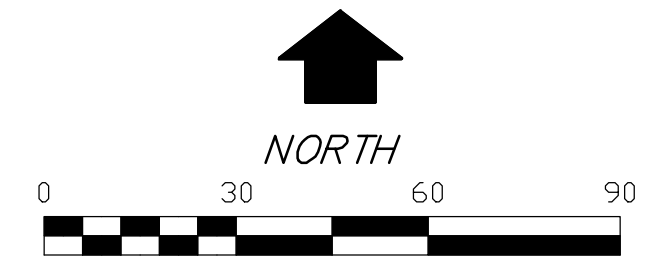
**GRADING PLAN ENLARGED - WEST SIDE**

SHEET C-17

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.17





30" CMP W/  
CONC. HEADWALL  
(CLOGGED W/ MUD)

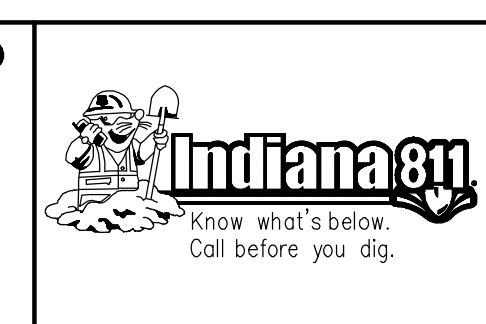
UTILITY POLE  
TO BE  
SUPPORTED  
CONSTRUCTION

SEE SHEET 27 AND 28 FOR  
CR 100 W CROSS-SECTIONS

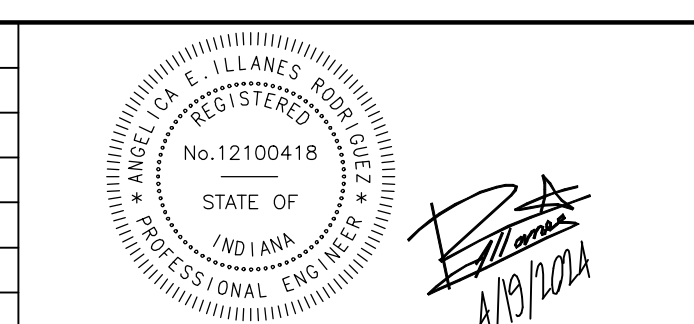
NOT INCLUDED

OUTLOT C

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NO.	REVISION	BY	DATE
1	DESIGNED: SCC		
2	CHK'D: SCC		
3	DESIGNED: AIR		
4	APPRV'D: CLR		
5	DATE: 4/19/2024		
6	HORIZ. SCALE: 1"=30'		
7	VERT. SCALE: N/A		
8	PROJECT STATUS		
9	PRELIMINARY		



CITY OF LAPORTE INDIANA

**HUNTER WOODS**

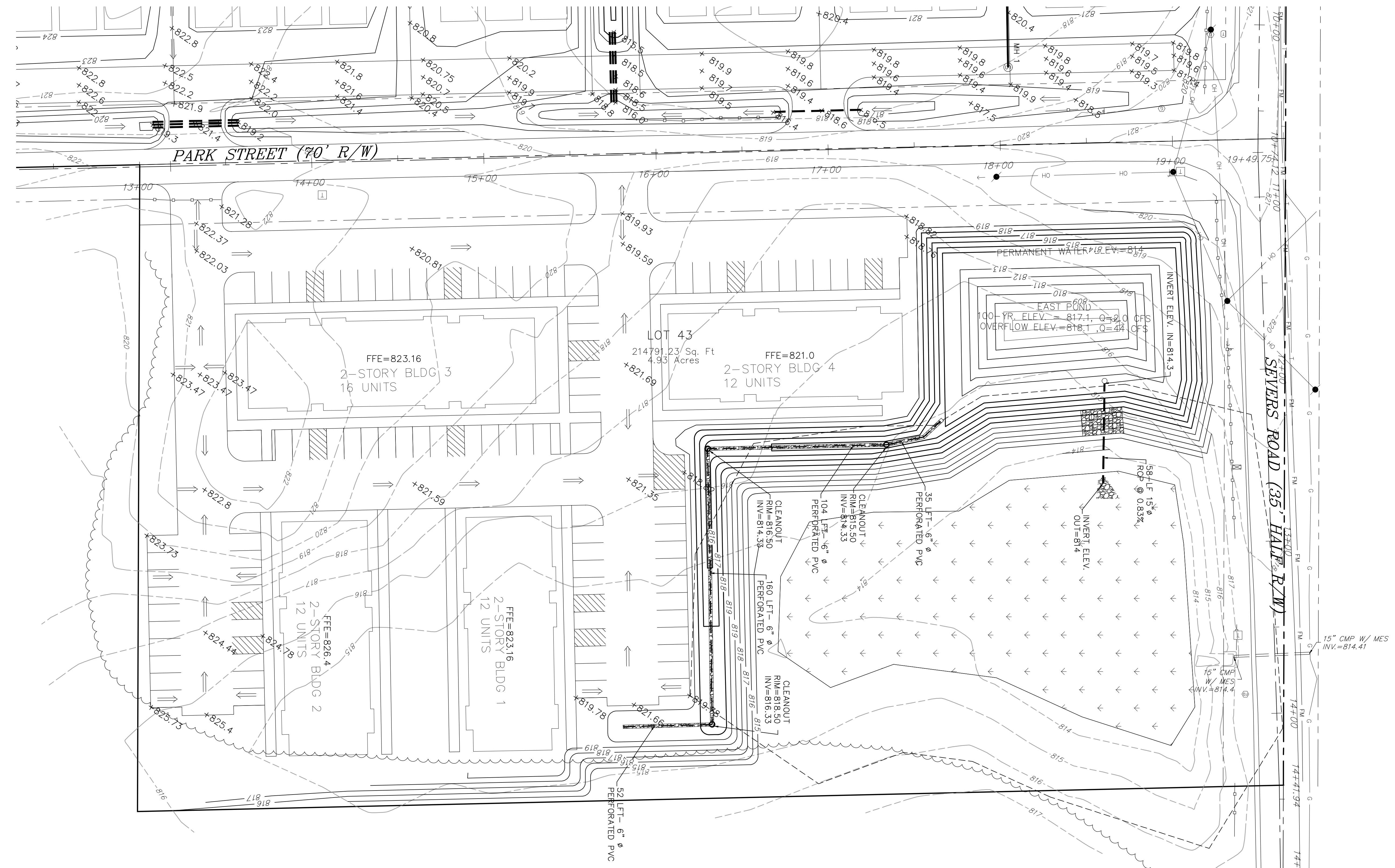
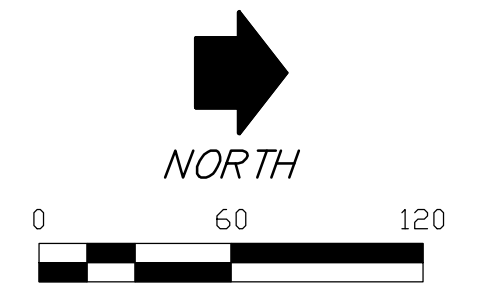
**GRADING PLAN ENLARGED - WEST SIDE**

SHEET C-18

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.18

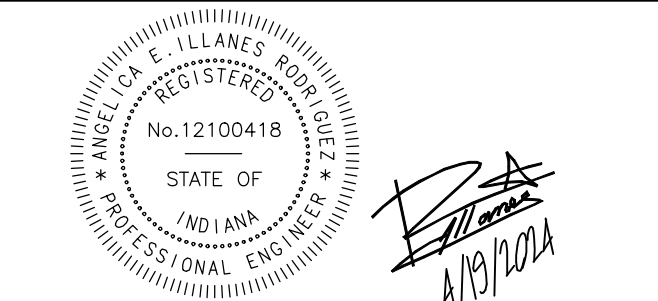




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1498 POPE COURT  
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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

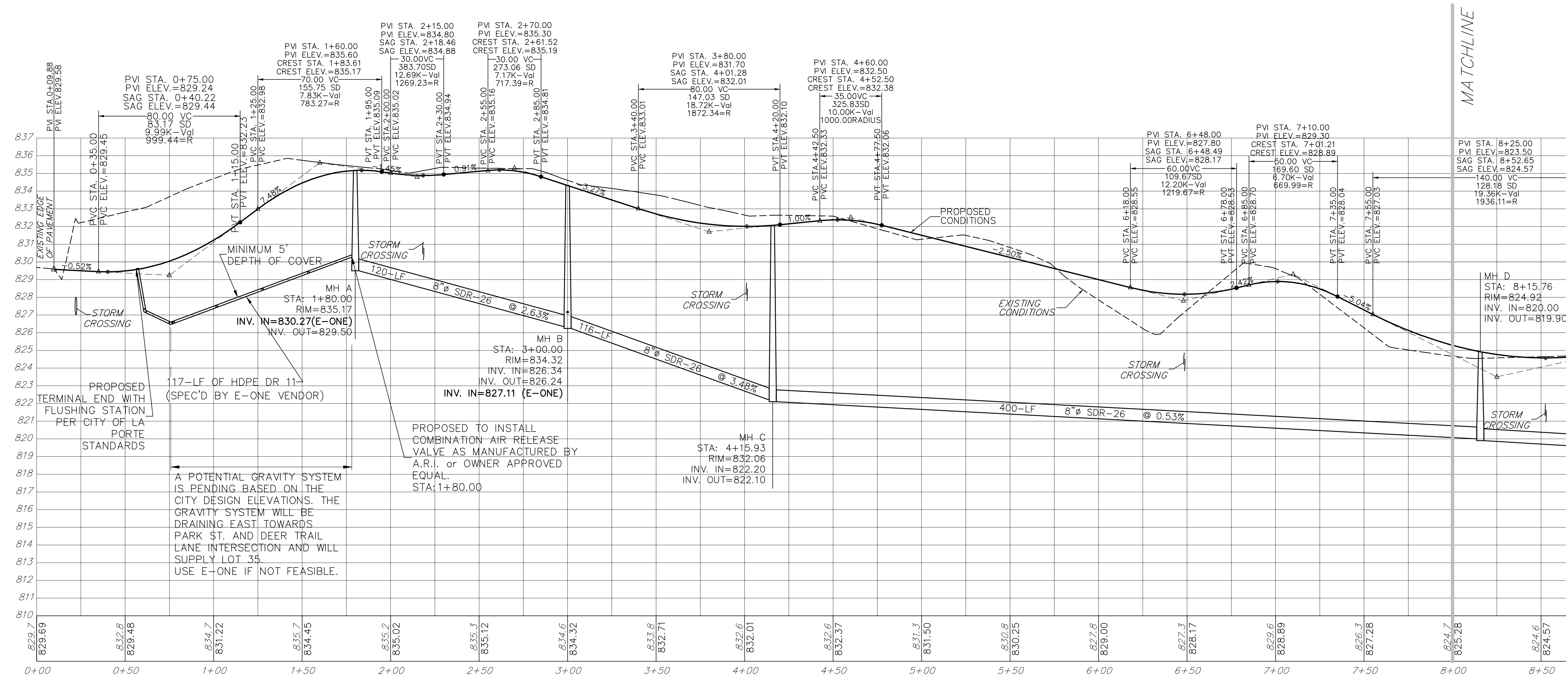
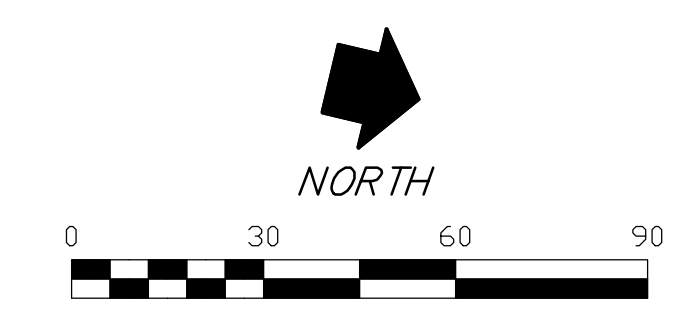
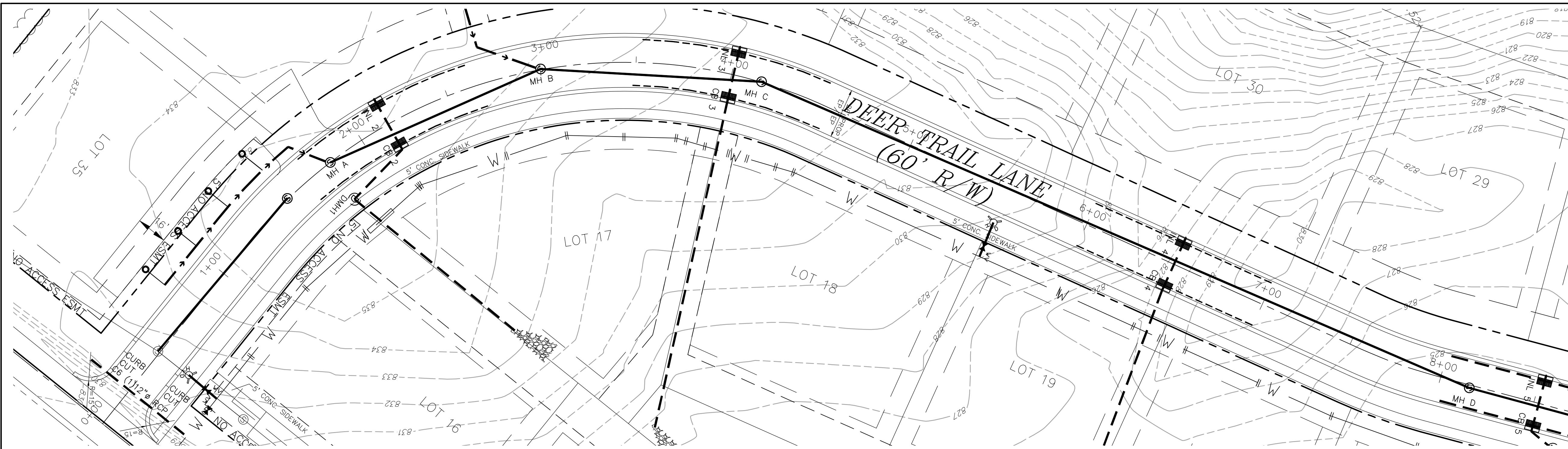
**GRADING PLAN OVERALL - EAST SIDE**

SHEET C-19

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.19





MATCHLINE

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Call before you dig.

DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE
DESIGNED: AIR	APPRVD: CLR	△			
DATE: 4/19/2024					
HORIZ. SCALE: 1"=30'					
VERT. SCALE: 1"=3'					
PROJECT STATUS: PRELIMINARY					

SANITARY	
WATER	
ROAD	
EROSION	

CITY OF LA PORTE INDIANA

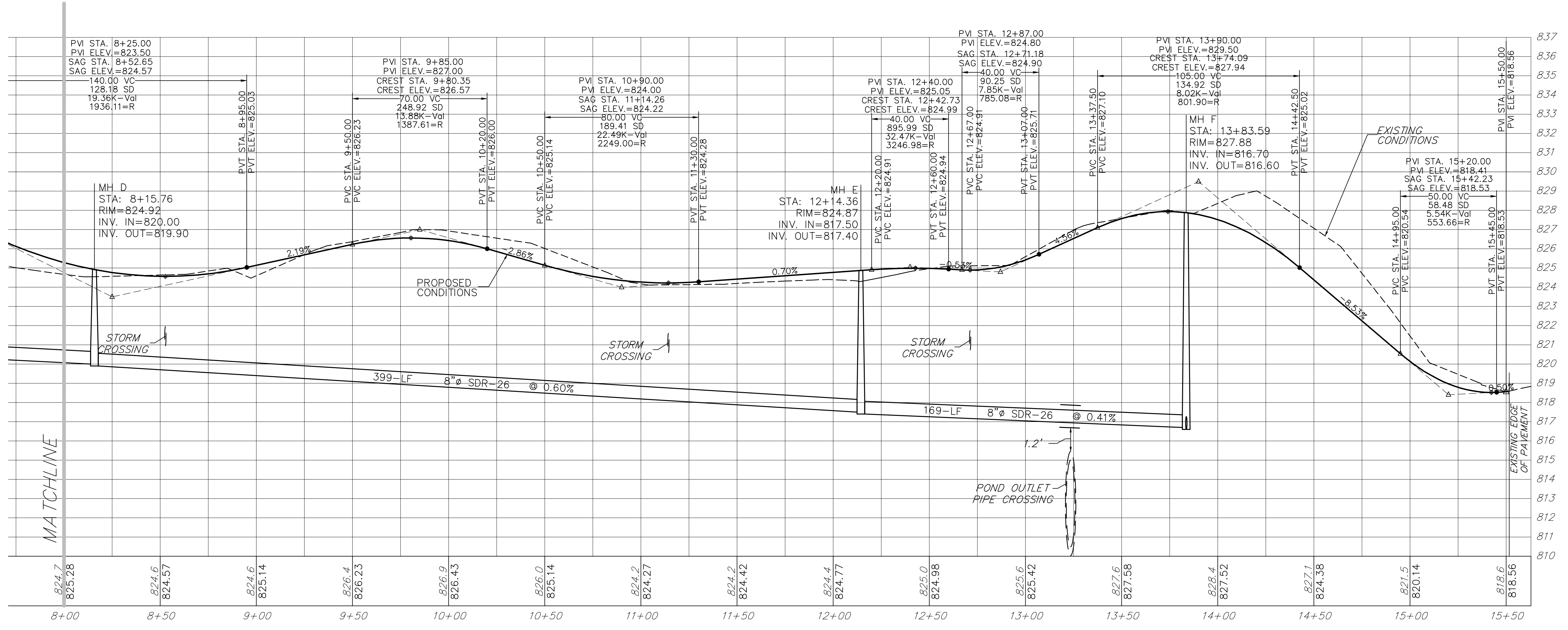
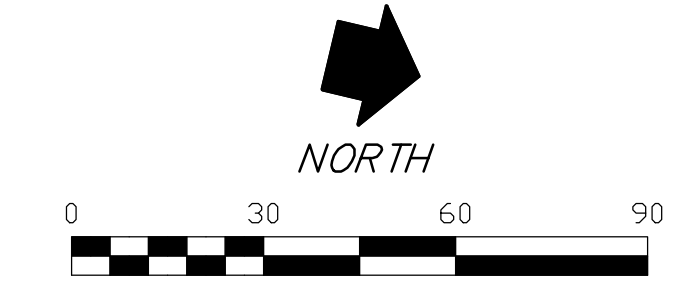
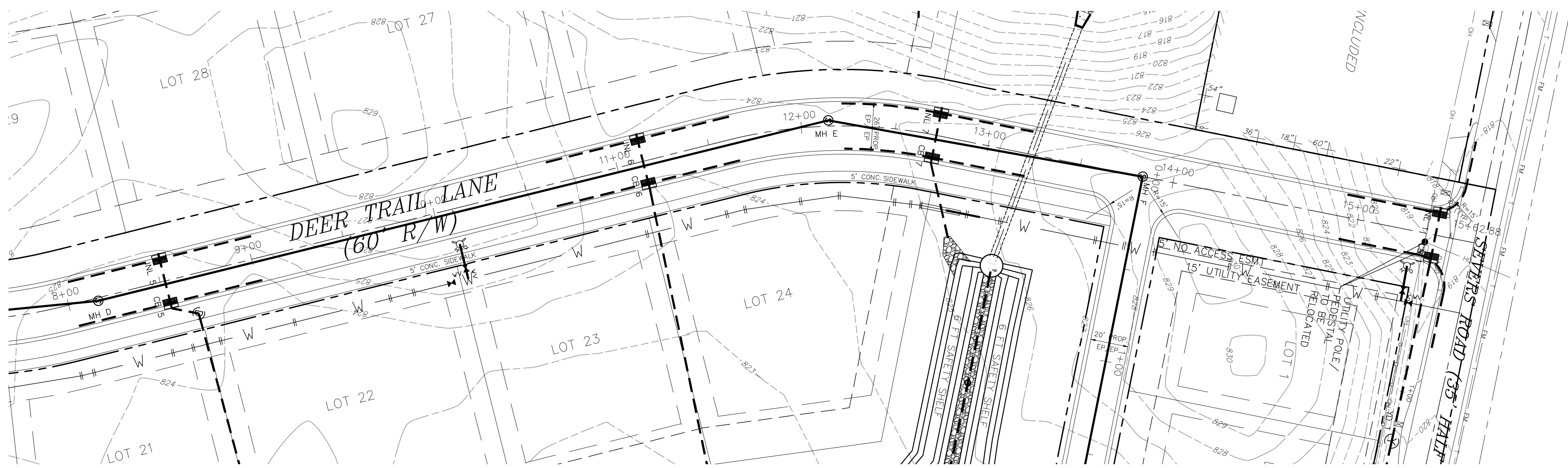
**HUNTER WOODS**

**DEER TRAIL LANE SOUTH PLAN/ PROFILE**

SHEET C-20

PROJECT NUMBER: 3139  
DRAWING NUMBER: 3139.000.20

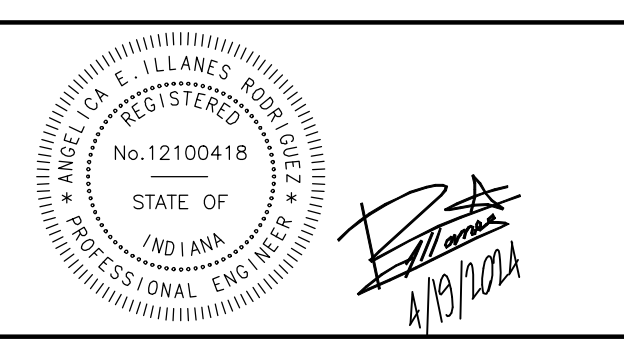




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NO.	REVISION	BY	DATE	STORM	SANITARY	WATER	ROAD	EROSION
1	DESIGNED: SCC	CHK'D: SCC	NO.					
2	DESIGNED: AIR	APPRVD: CLR	DATE: 4/19/2024					
3	HORIZ. SCALE: 1"=30'							
4	VERT. SCALE: 1"=3'							
5	PROJECT STATUS: PRELIMINARY							



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

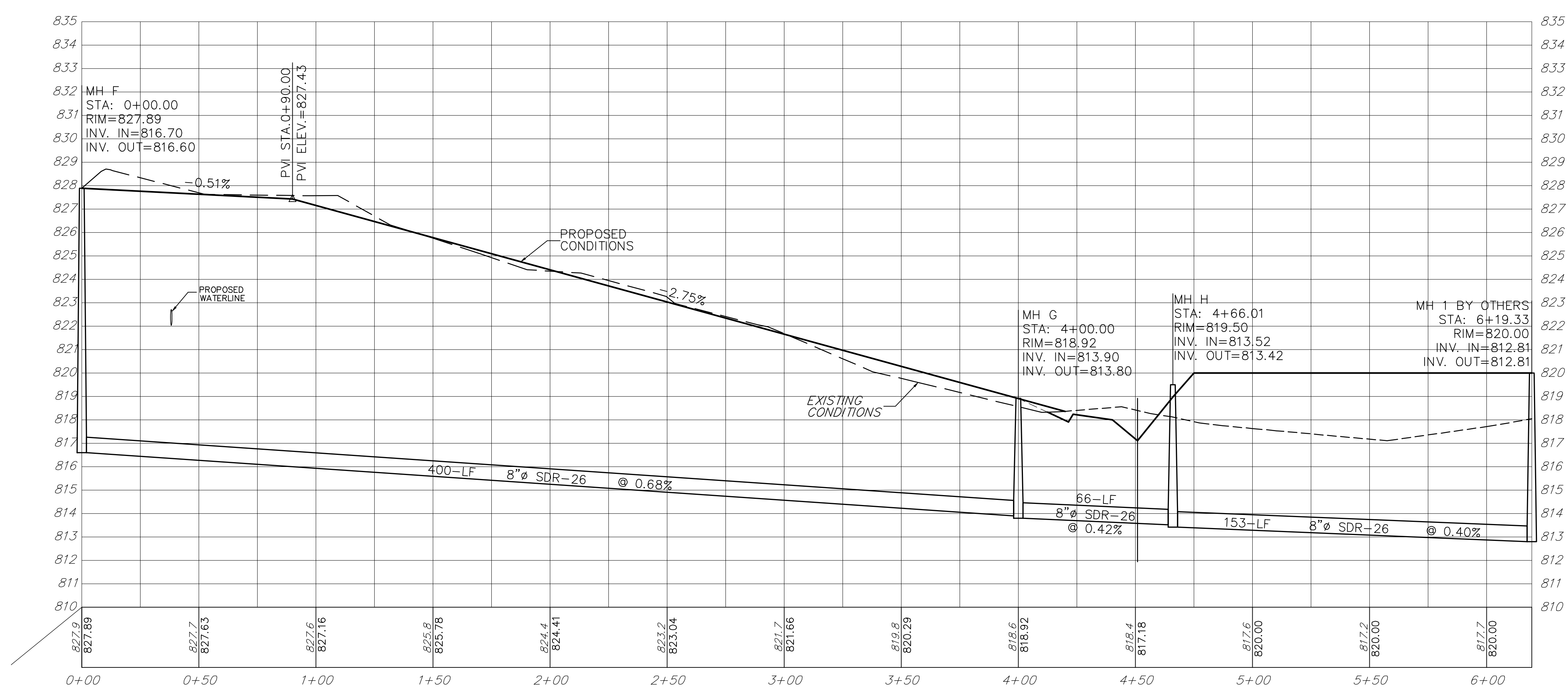
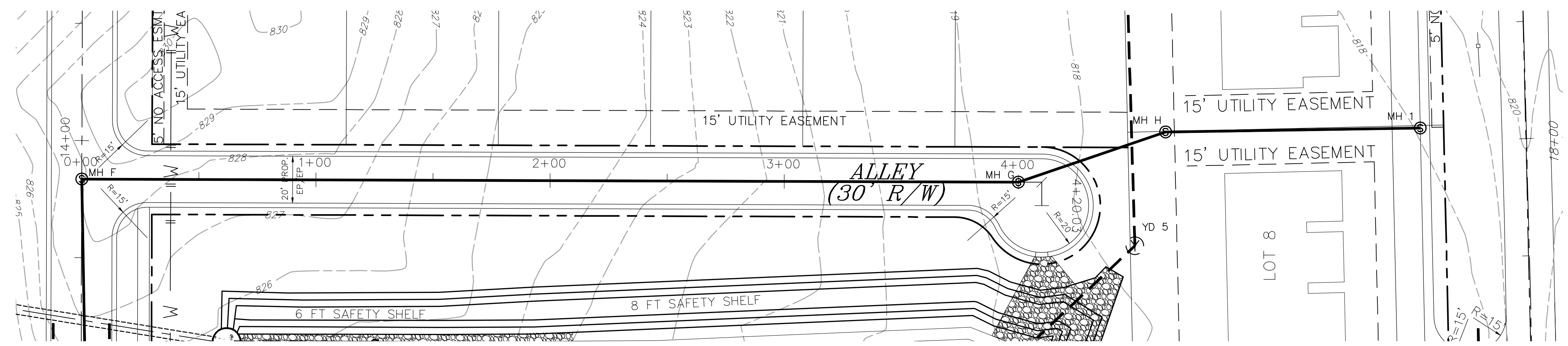
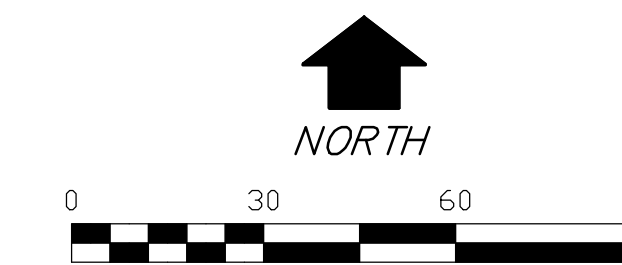
DEER TRAIL LANE NORTH PLAN/ PROFILE

SHEET C-21

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.21

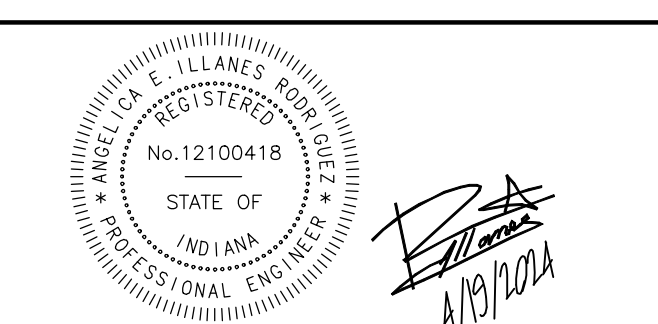




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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE
DESIGNED: AIR	APPRV'D: CLR	△			
DATE: 4/19/2024					
HORIZ. SCALE: 1"=30'					
VERT. SCALE: 1"=3'					
PROJECT STATUS: PRELIMINARY					



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

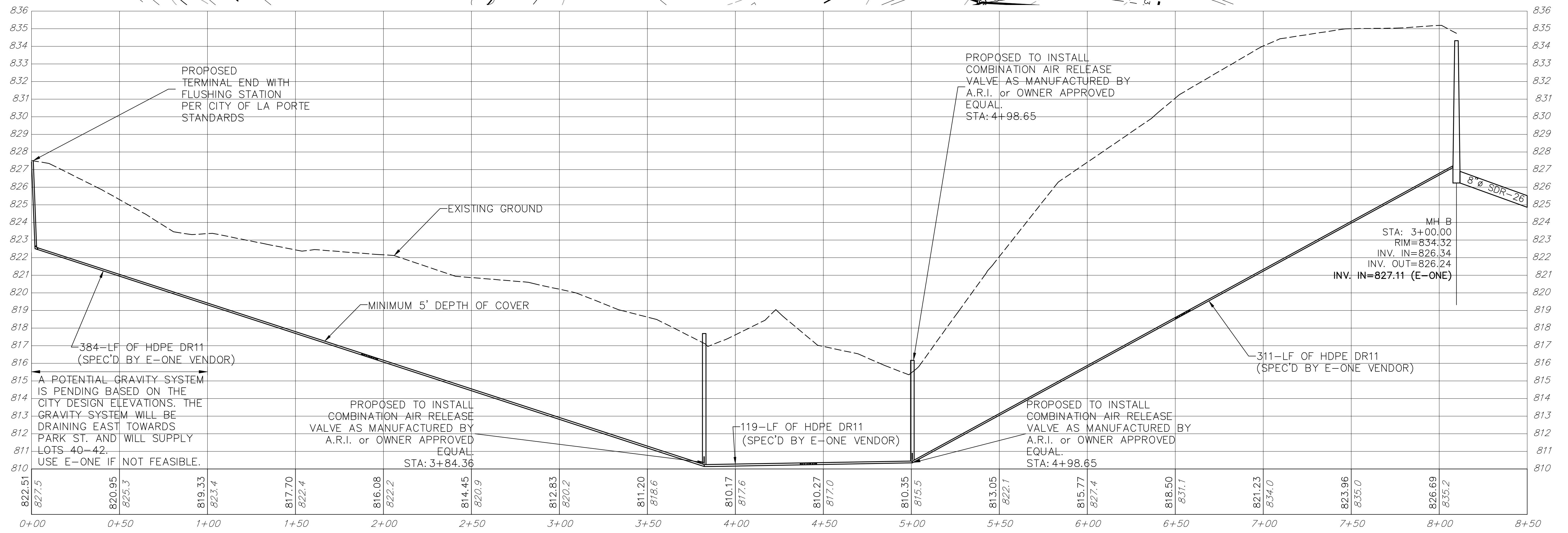
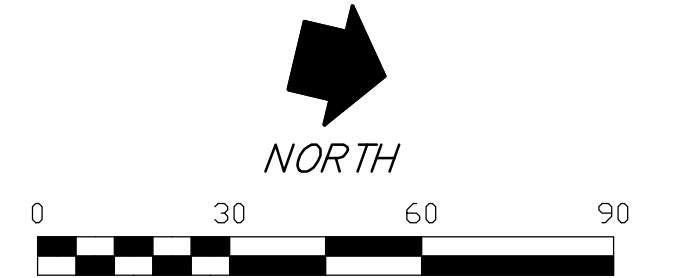
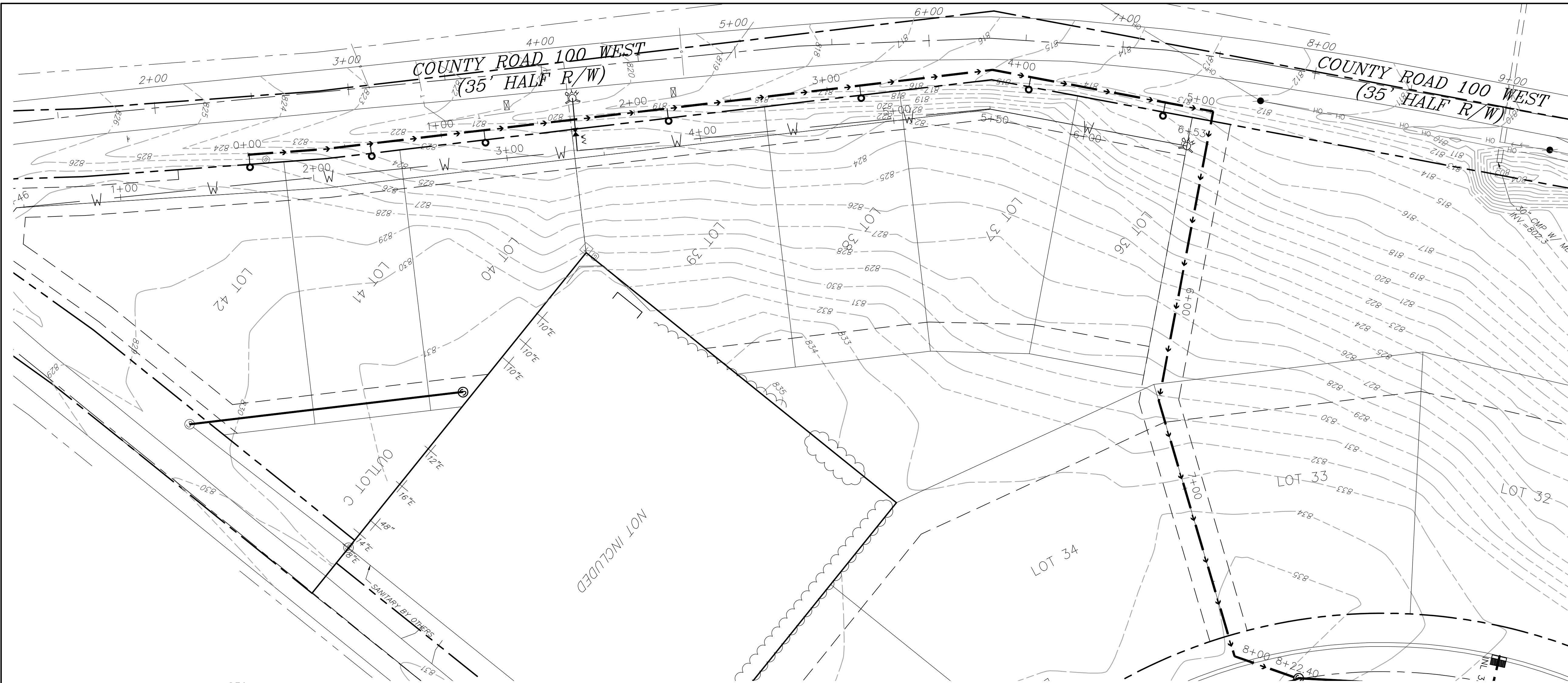
**ALLEY SANITARY PLAN/ PROFILE**

SHEET C-22

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.22

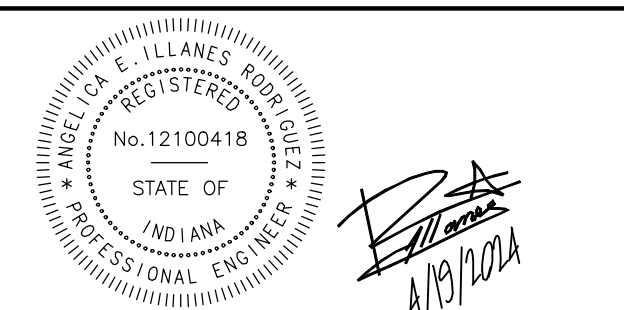




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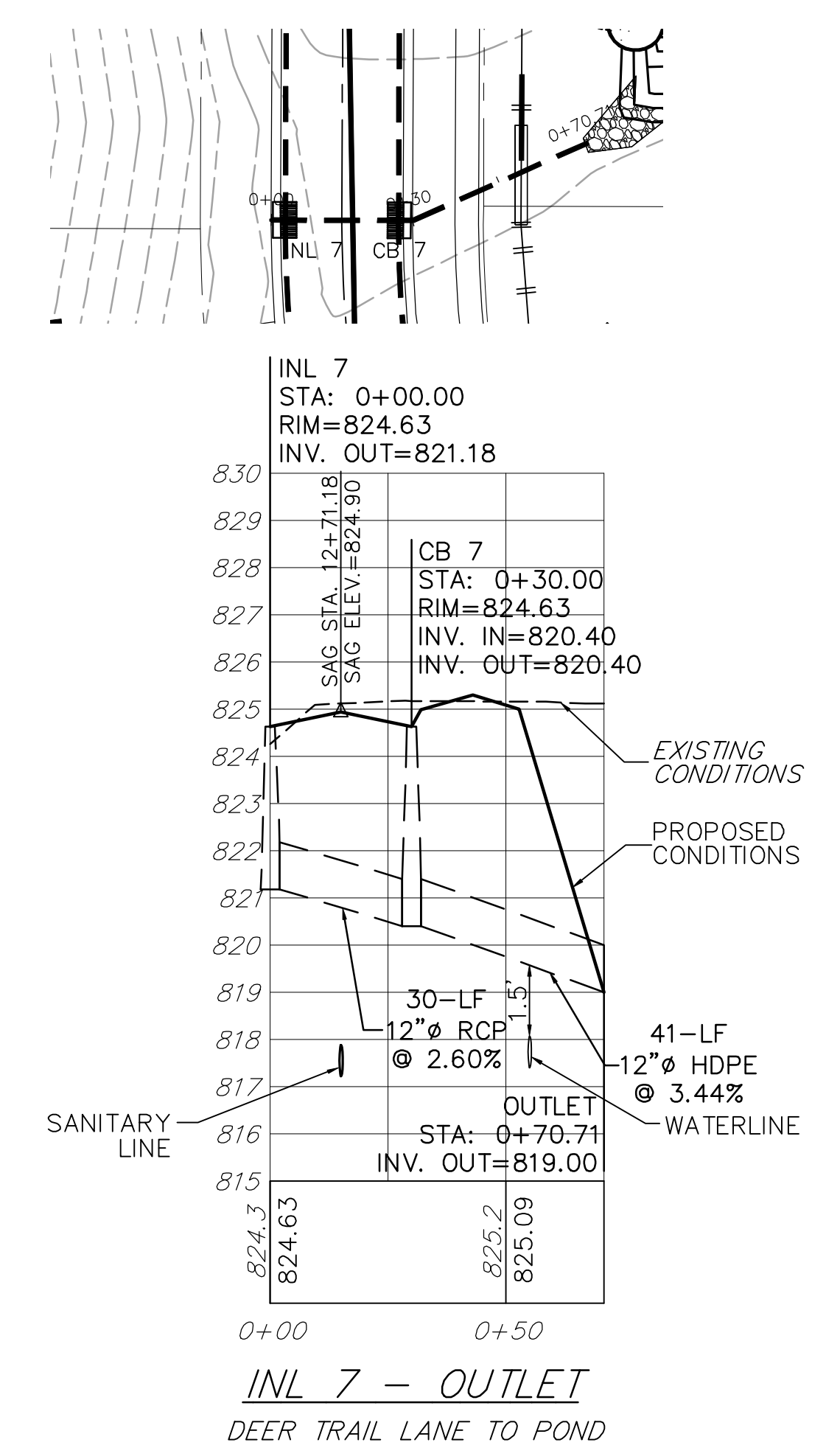
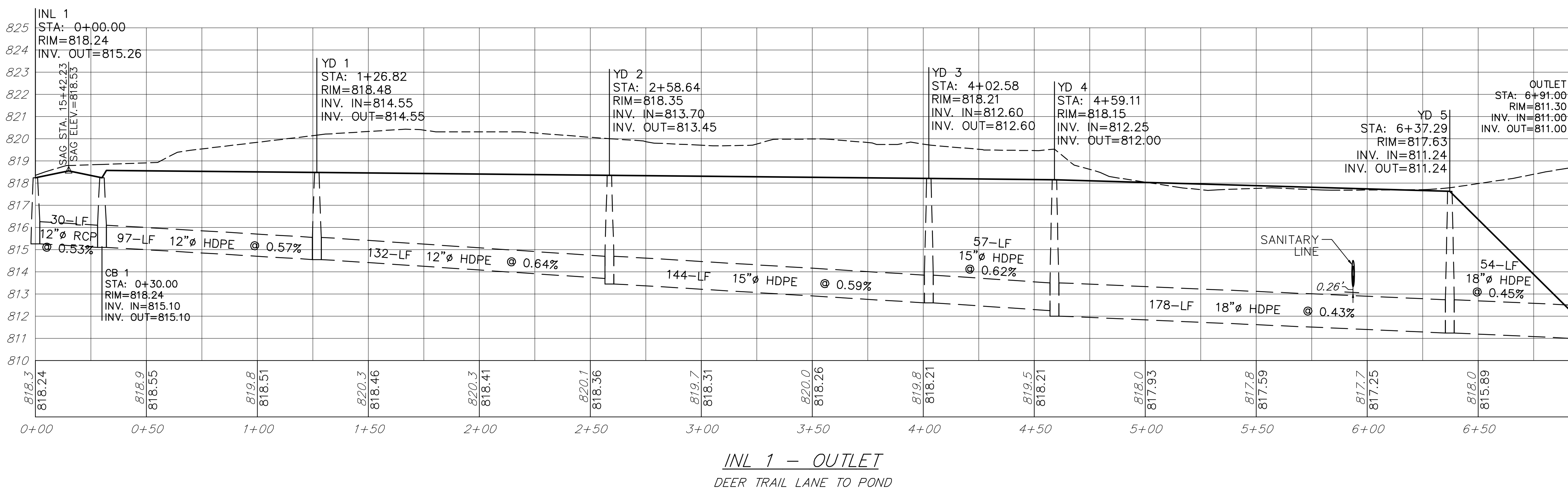
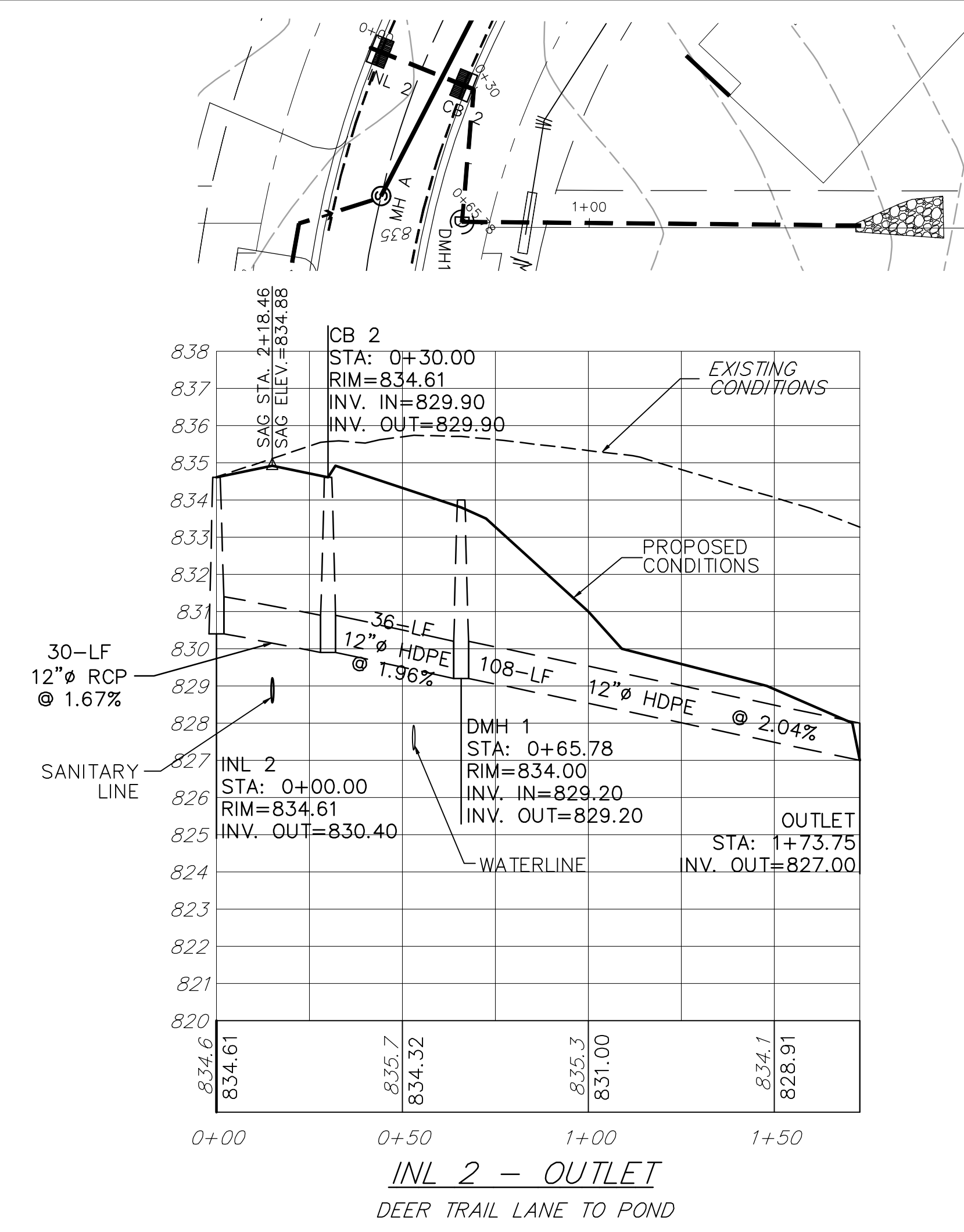
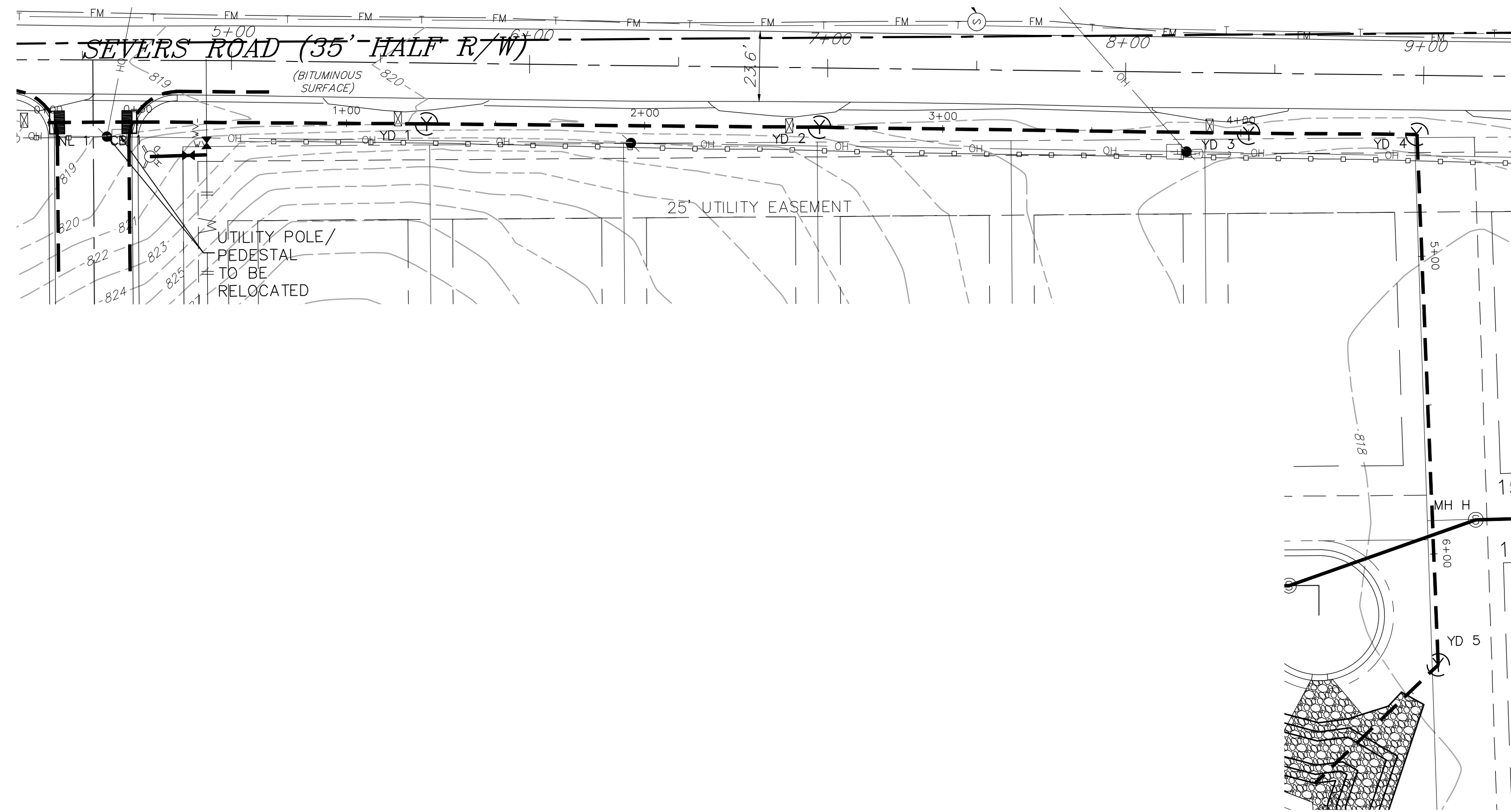
DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
CR 100 W SANITARY PLAN/ PROFILE

SHEET C-23
PROJECT NUMBER 3139
DRAWING NUMBER 3139.000.23

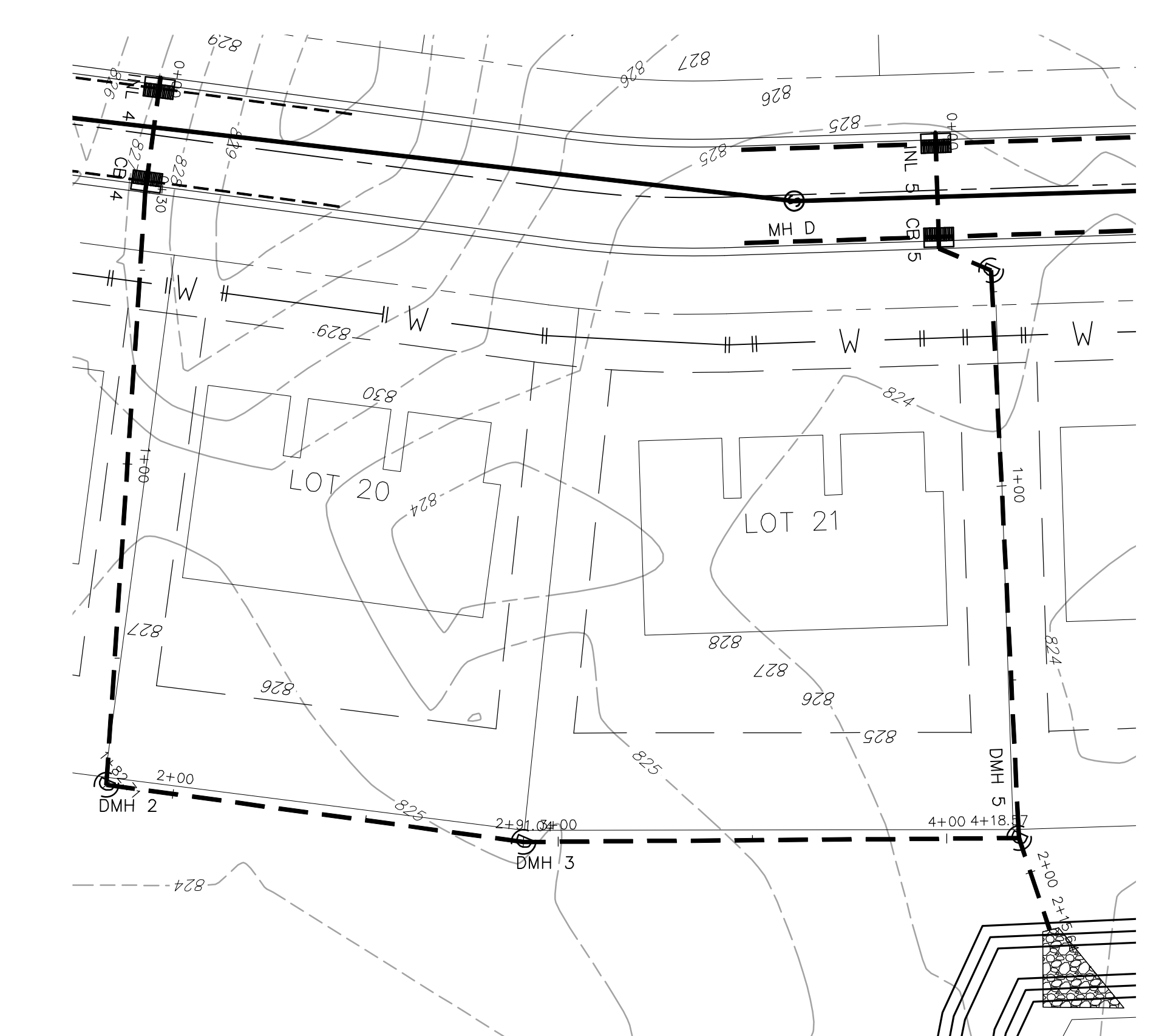
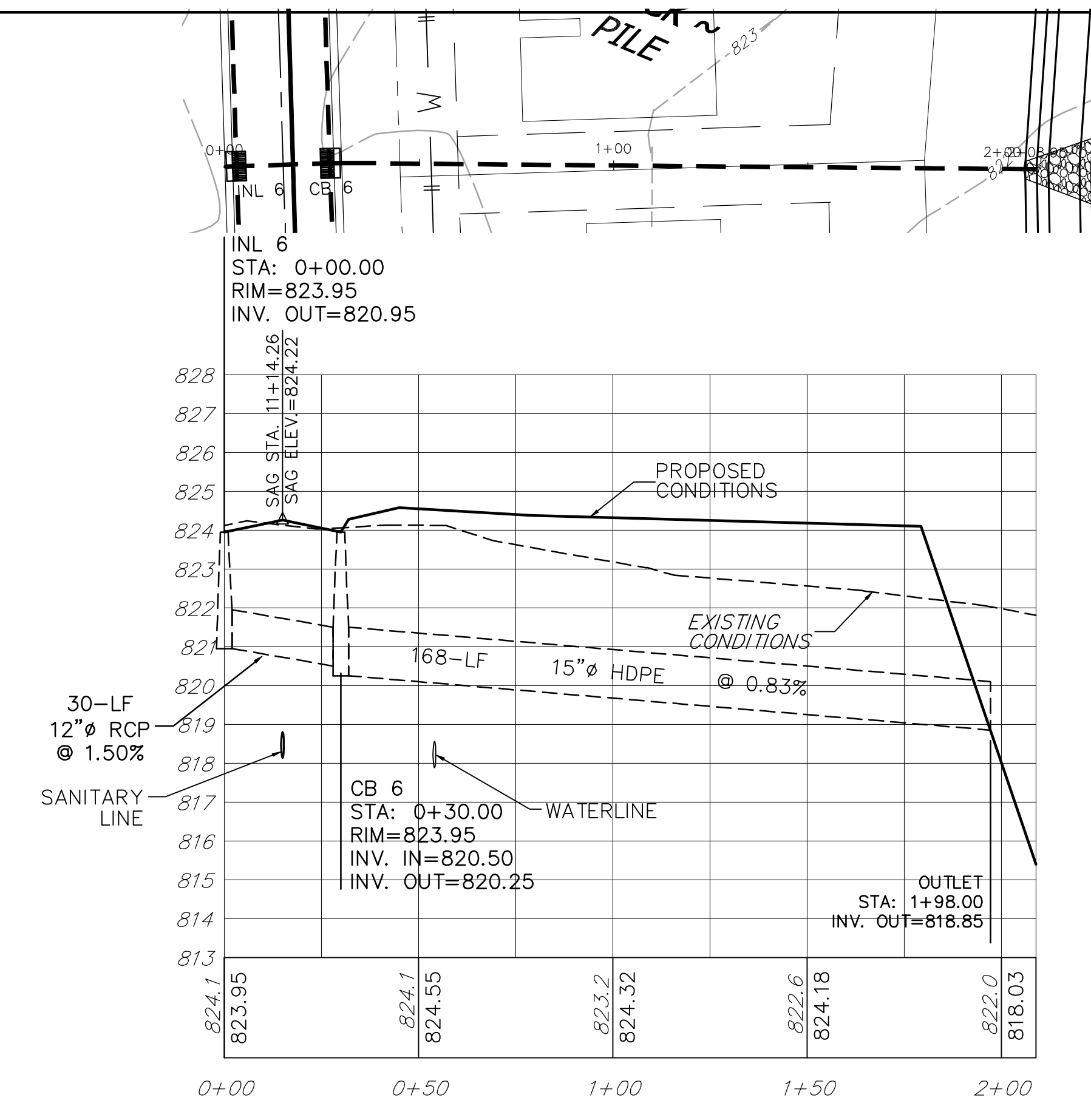
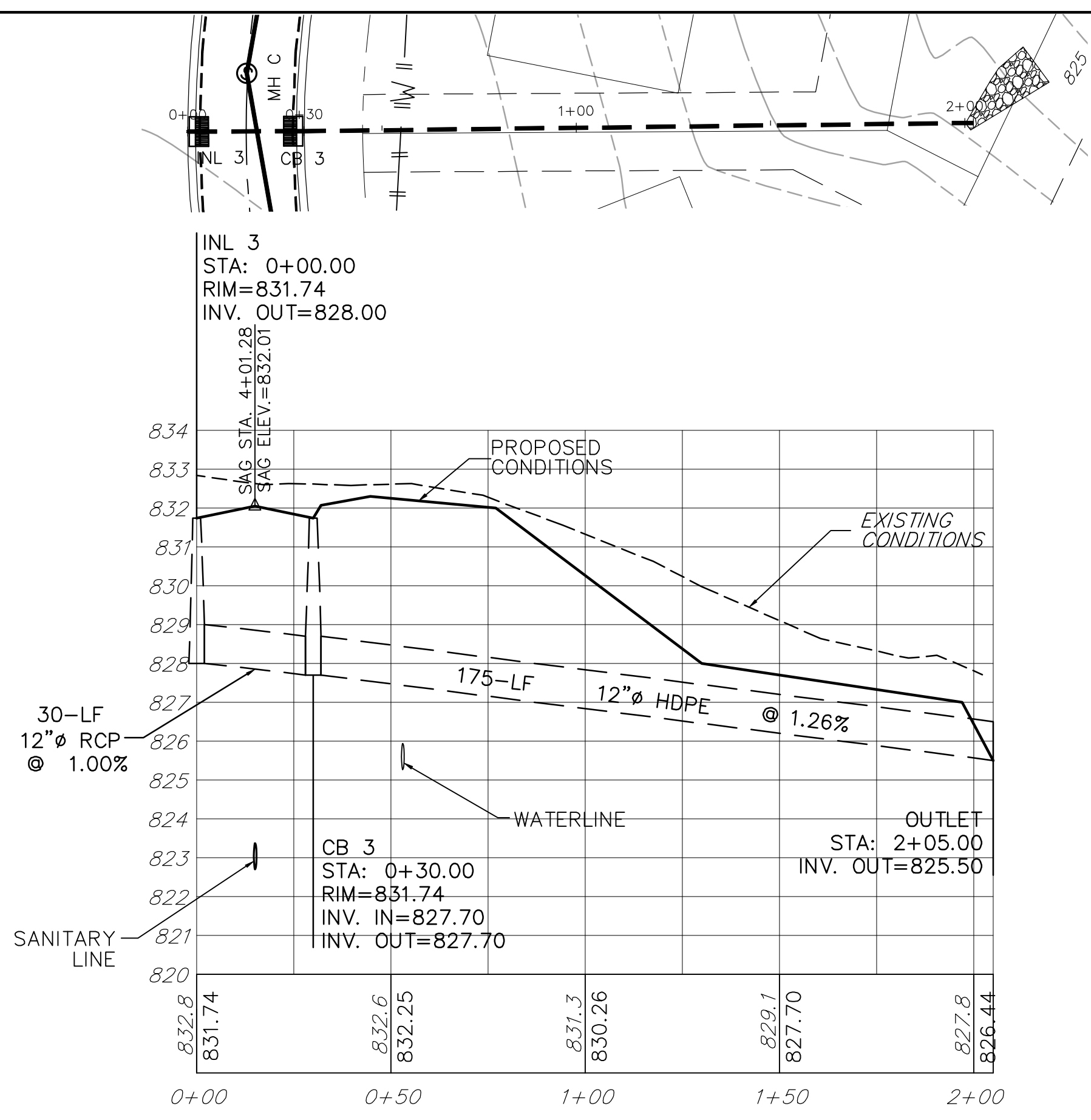




1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

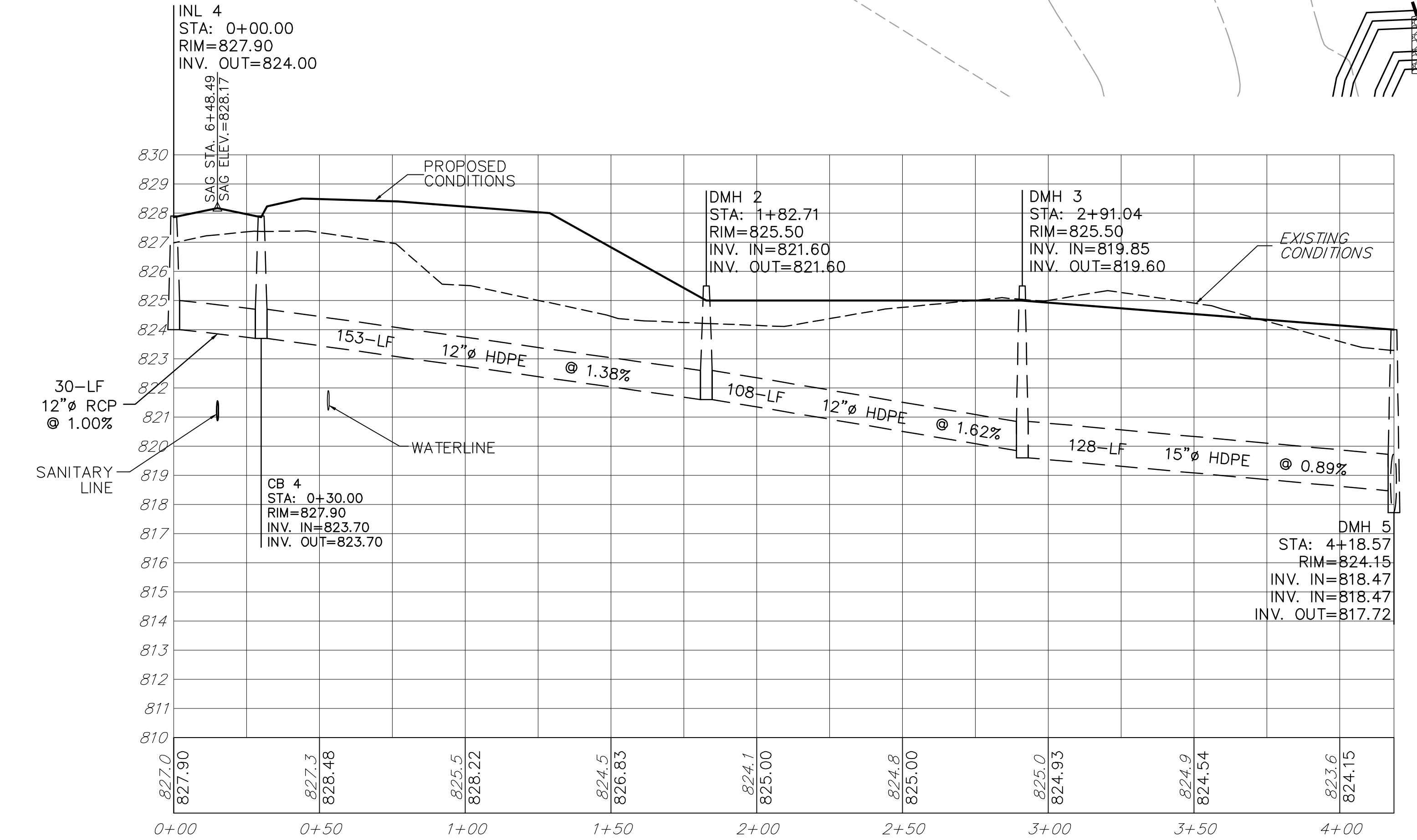
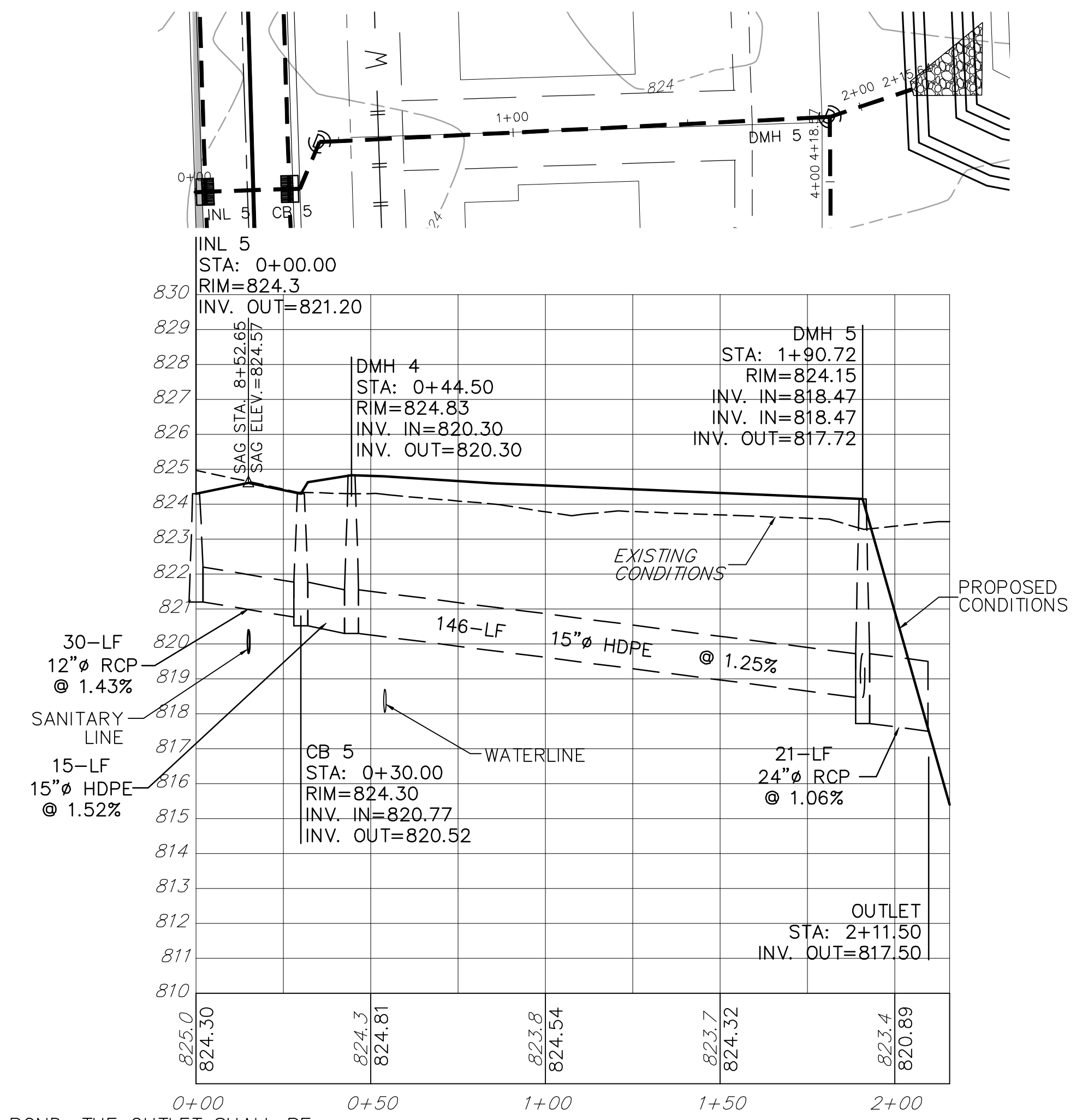
<b>DUNELAND GROUP</b> ENGINEERING & SURVEYING 1498 POPE COURT CHESTERTON, INDIANA 46304 Ph: 219-926-1007 E-MAIL: dgi@dunelandgroup.com	Know what's below. Call before you dig.	DRAWN: SCC DESIGNED: AIR DATE: 4/19/2024 HORIZ. SCALE: 1"=30' VERT. SCALE: 1"=3' PROJECT STATUS: PRELIMINARY	CHK'D: SCC APPR'D: CLR NO. <input type="checkbox"/>	REVISION BY DATE	STORM SANITARY WATER ROAD EROSION		CITY OF LA PORTE <b>HUNTER WOODS</b> STORM PLAN/ PROFILES	INDIANA SHEET C-24 PROJECT NUMBER: 3139 DRAWING NUMBER: 3139.000.24
		1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.						





**INL 3 - OUTLET**  
 DEER TRAIL LANE TO POND

**INL 6 - OUTLET**  
 DEER TRAIL LANE TO POND



**INL 4 - DMH 5**  
 DEER TRAIL LANE TO DMH 5

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

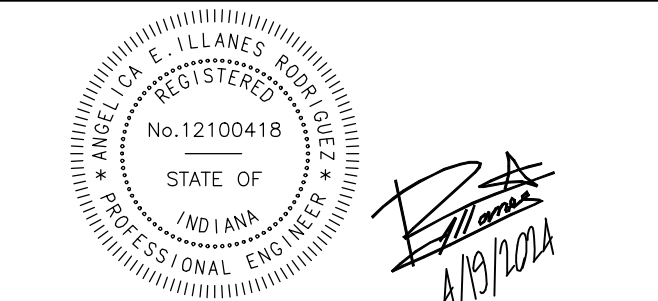
**INL 5 - OUTLET**  
 DEER TRAIL LANE TO POND



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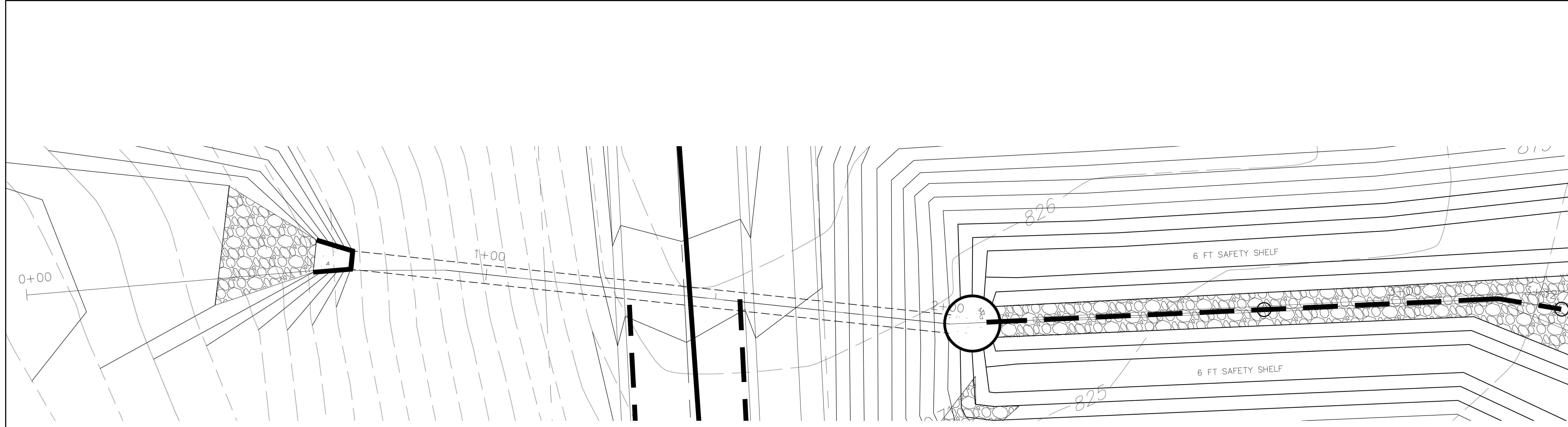


DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						

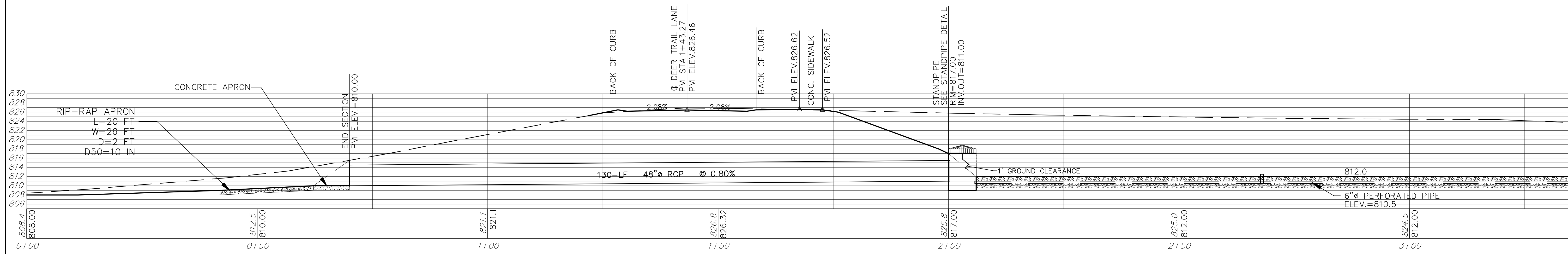


CITY OF LA PORTE	INDIANA	SHEET C-25
<b>HUNTER WOODS</b>		PROJECT 3139
<b>STORM PLAN/ PROFILES</b>		DRAWING NUMBER
		3139.000.25





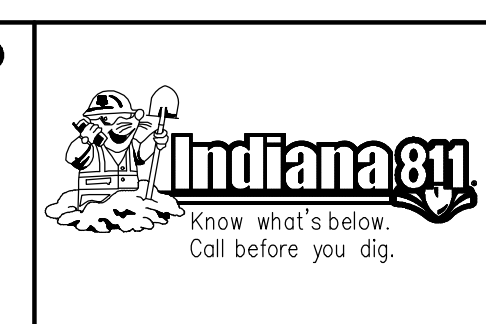
CENTRAL POND OUTLET PIPE CROSSING  
DEER TRAIL LANE  
PLAN VIEW



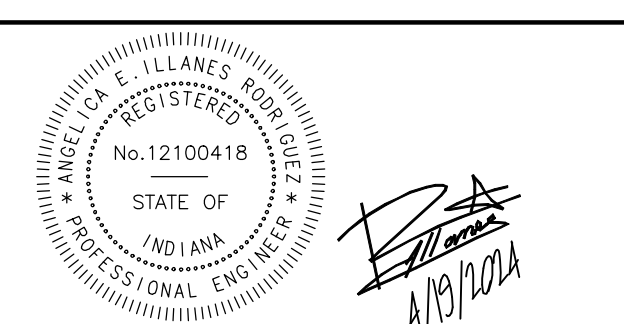
CENTRAL POND OUTLET PIPE CROSSING  
DEER TRAIL LANE  
PROFILE

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPR'VD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=10'						ROAD
VERT. SCALE: 1"=10'						EROSION
PROJECT STATUS						
PRELIMINARY						



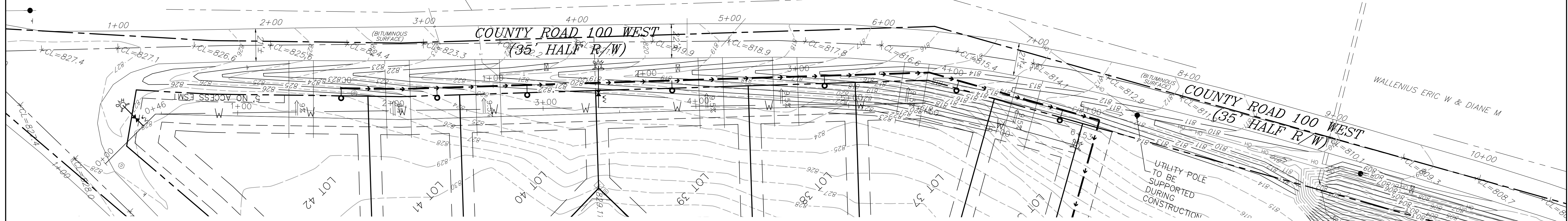
CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
OUTLET CULVERT PIPE PLAN/ PROFILE

SHEET C-26  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.26

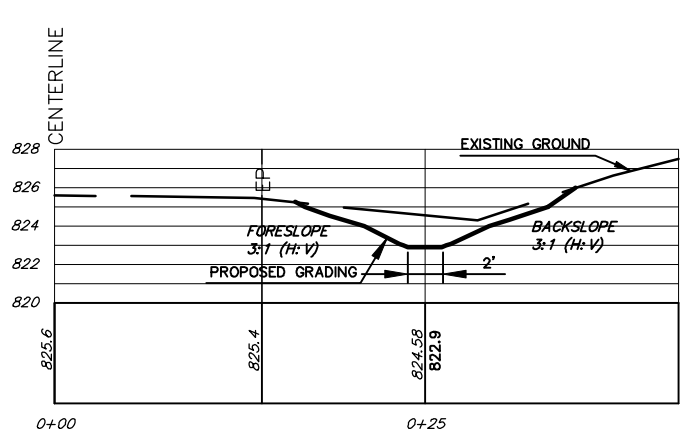


PRUDEN MICHAEL F and PATRICIA A LIFE ESTATE TRUST

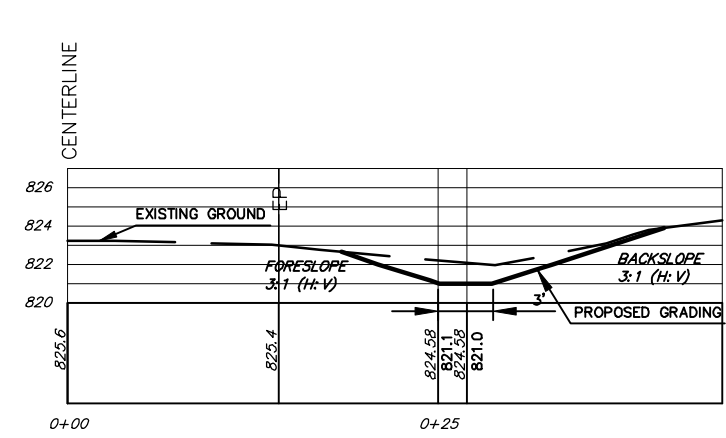
1698 LLC



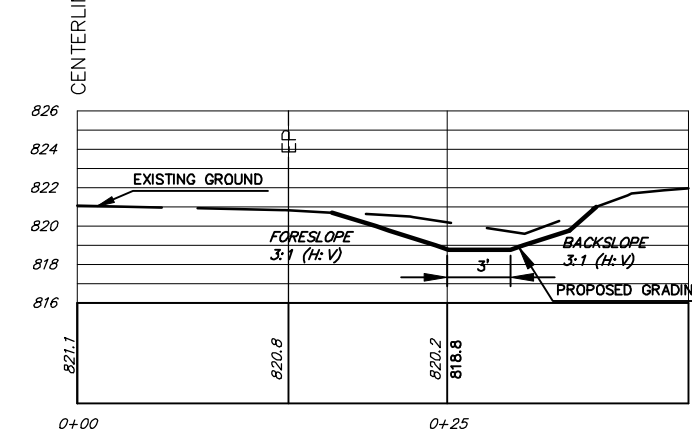
CR 100 W ROAD SIDE DTCH  
PLAN VIEW



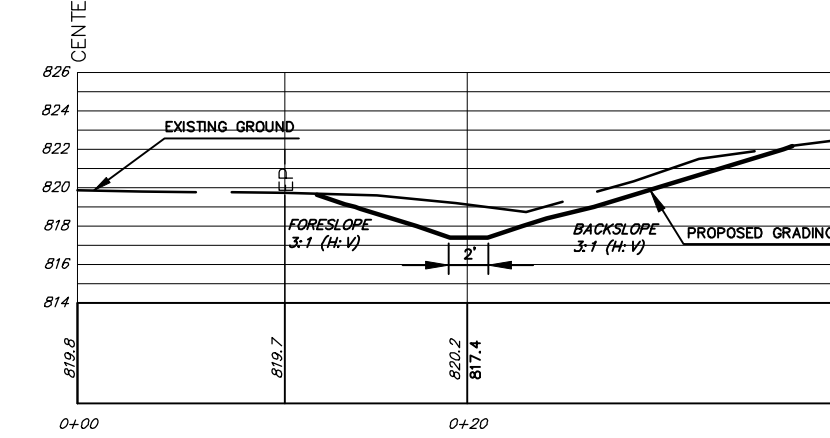
SOUTH DTCH  
STA: 2+00  
HORIZ. 1"=10'  
VERT. 1"=10'



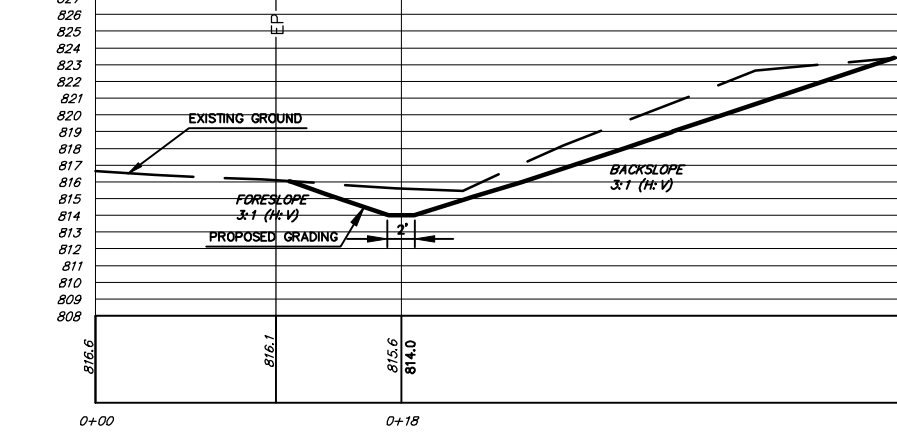
SOUTH DTCH  
STA: 3+00  
HORIZ. 1"=10'  
VERT. 1"=10'



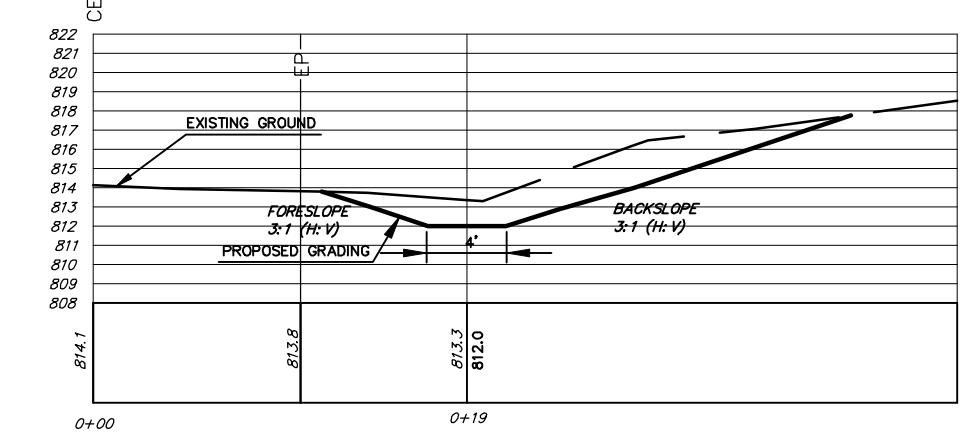
SOUTH DTCH  
STA: 4+00  
HORIZ. 1"=10'  
VERT. 1"=10'



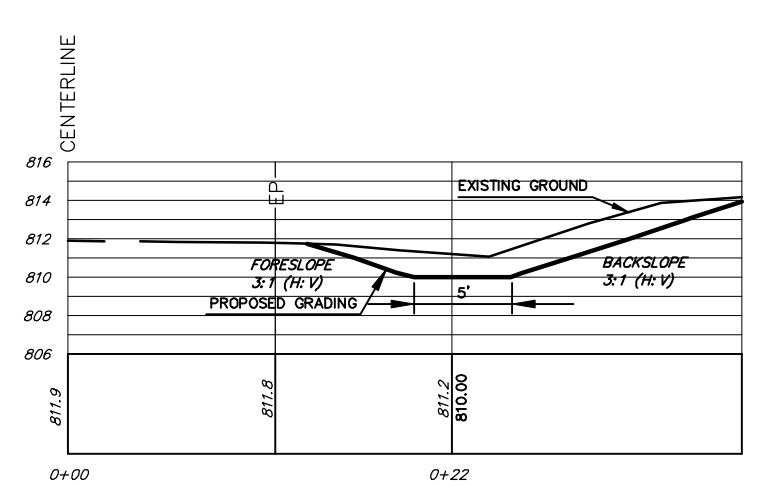
SOUTH DTCH  
STA: 5+00  
HORIZ. 1"=10'  
VERT. 1"=10'



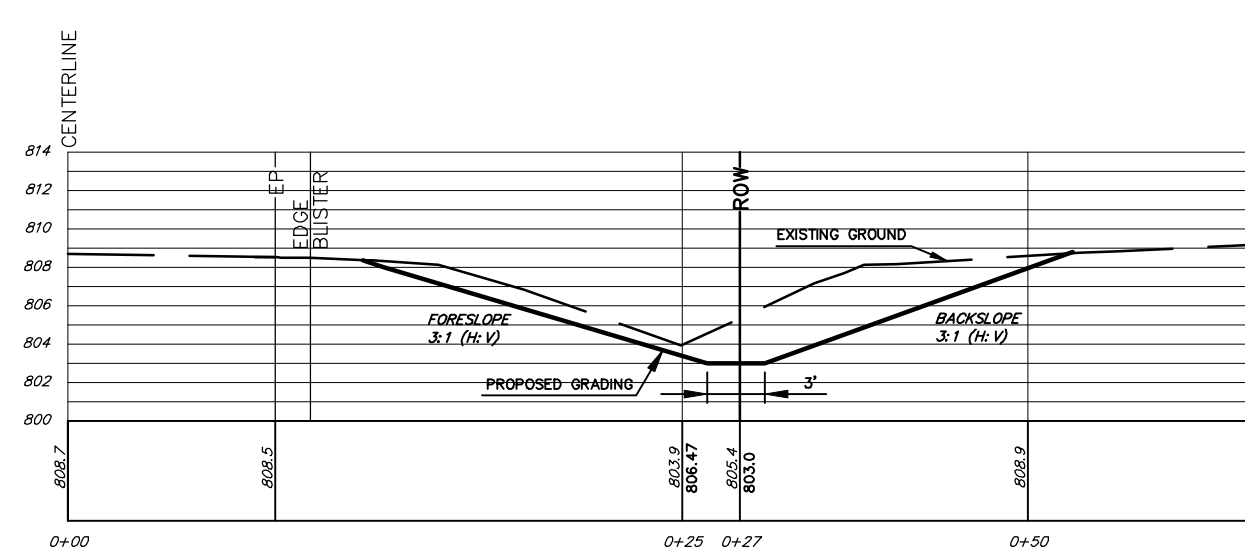
SOUTH DTCH  
STA: 6+00  
HORIZ. 1"=10'  
VERT. 1"=10'



SOUTH DTCH  
STA: 7+00  
HORIZ. 1"=10'  
VERT. 1"=10'

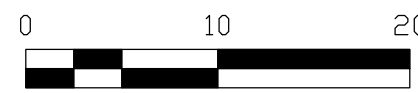


SOUTH DTCH  
STA: 8+00  
HORIZ. 1"=10'  
VERT. 1"=10'



SOUTH DTCH  
STA: 10+00  
HORIZ. 1"=10'  
VERT. 1"=10'

CR 100 W ROAD SIDE DTCH  
CROSS-SECTIONS

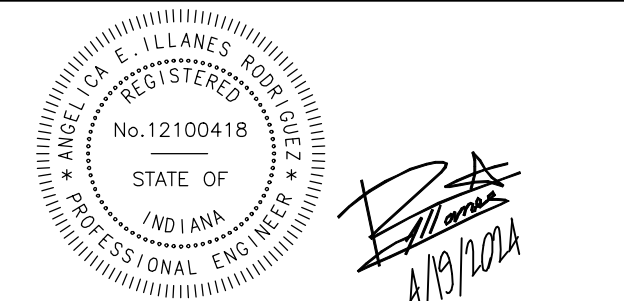


1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com



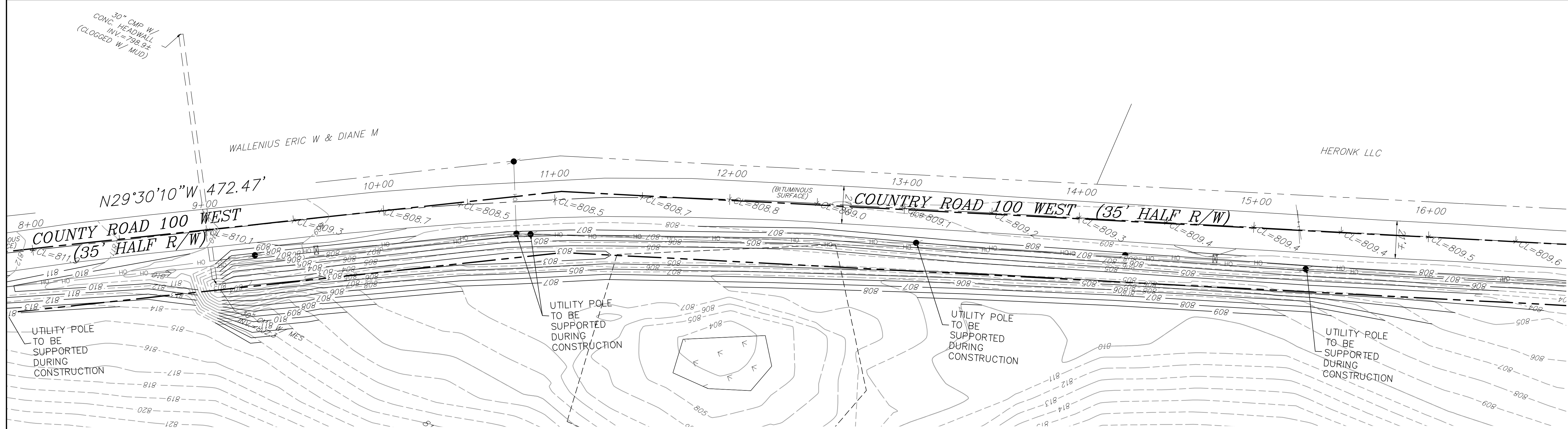
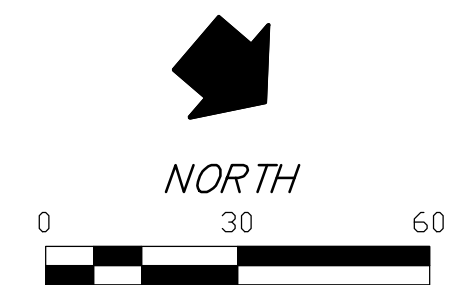
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DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=10'						ROAD
VERT. SCALE: 1"=10'						EROSION
PROJECT STATUS						
PRELIMINARY						



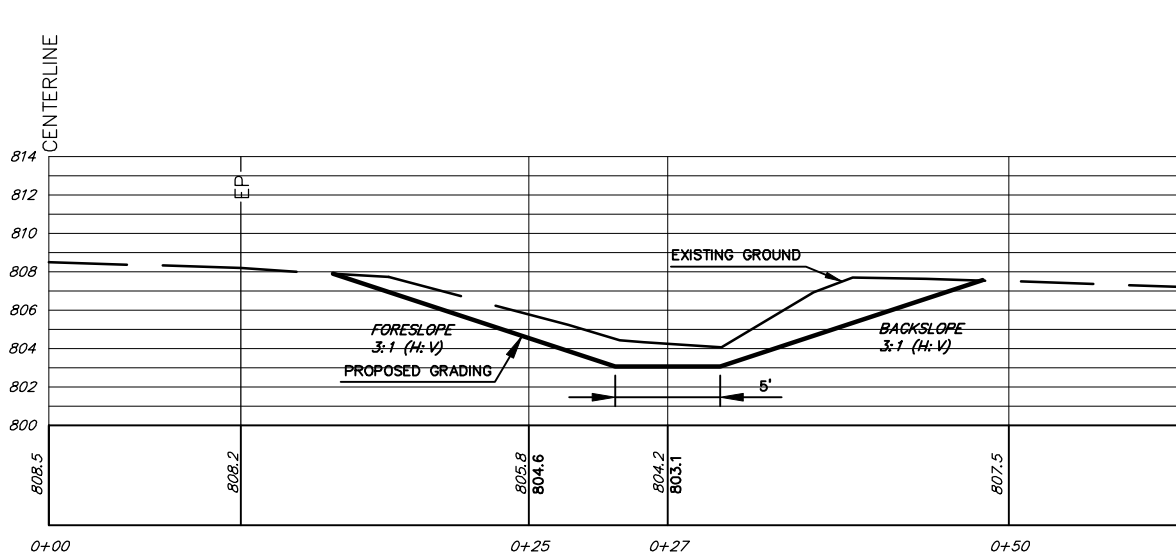
CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
CR 100 W DITCH STA. 2+00-10+00

SHEET C-27  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.27

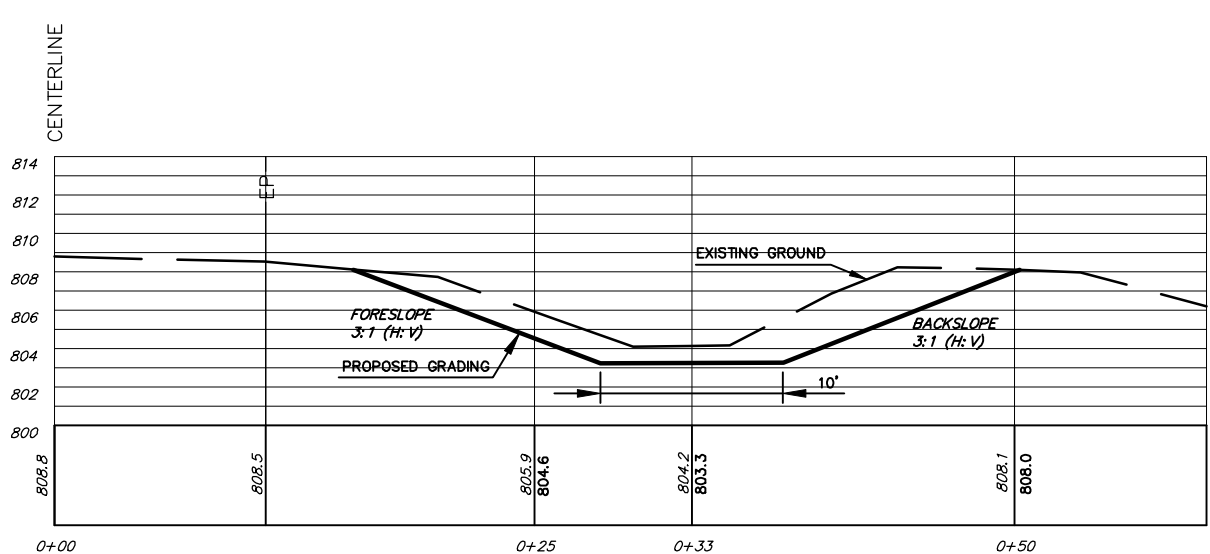




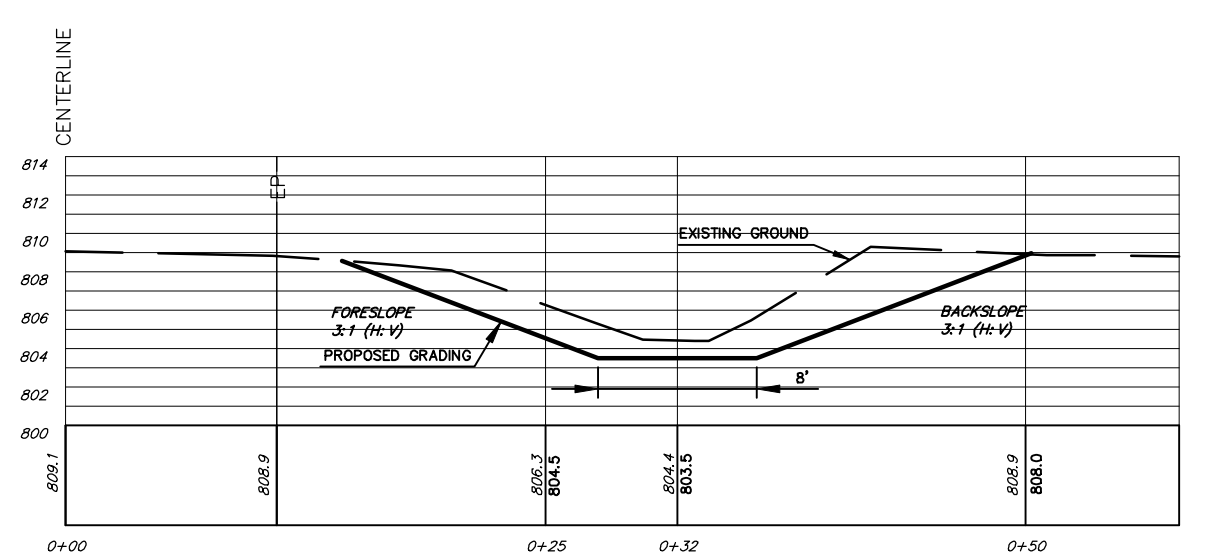
CR 100 W ROAD SIDE DTCH  
PLAN VIEW



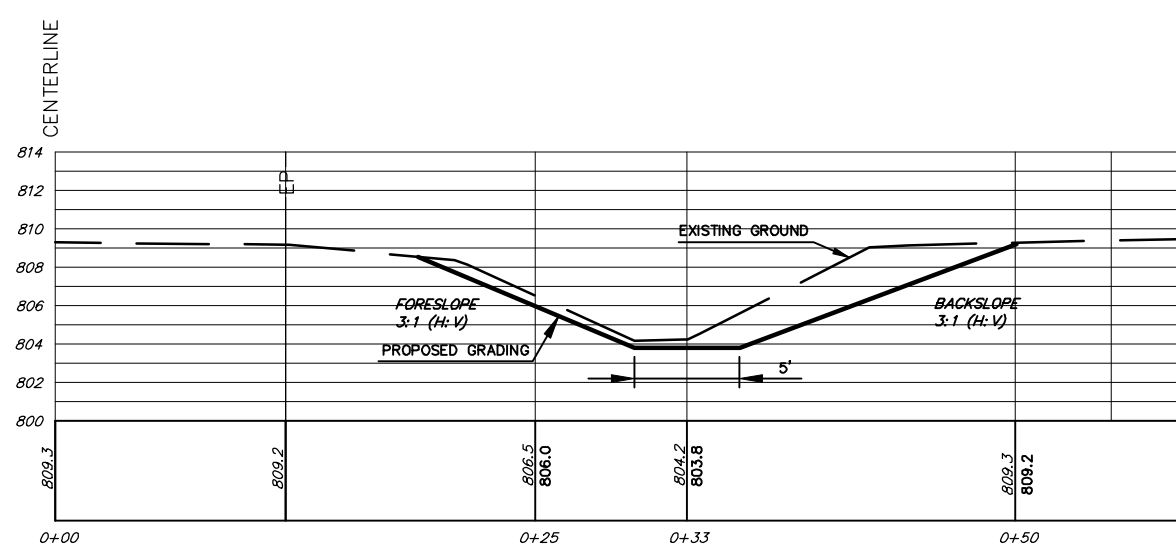
SOUTH DTCH  
STA: 11+00  
HORIZ. 1"=10'  
VERT. 1"=10'



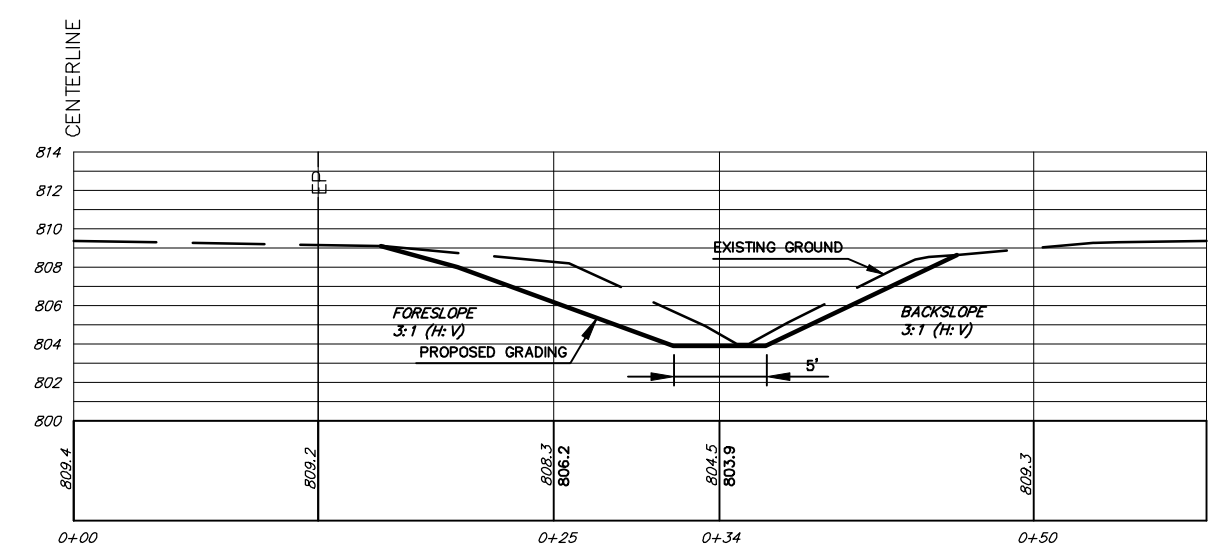
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STA: 12+00  
HORIZ. 1"=10'  
VERT. 1"=10'



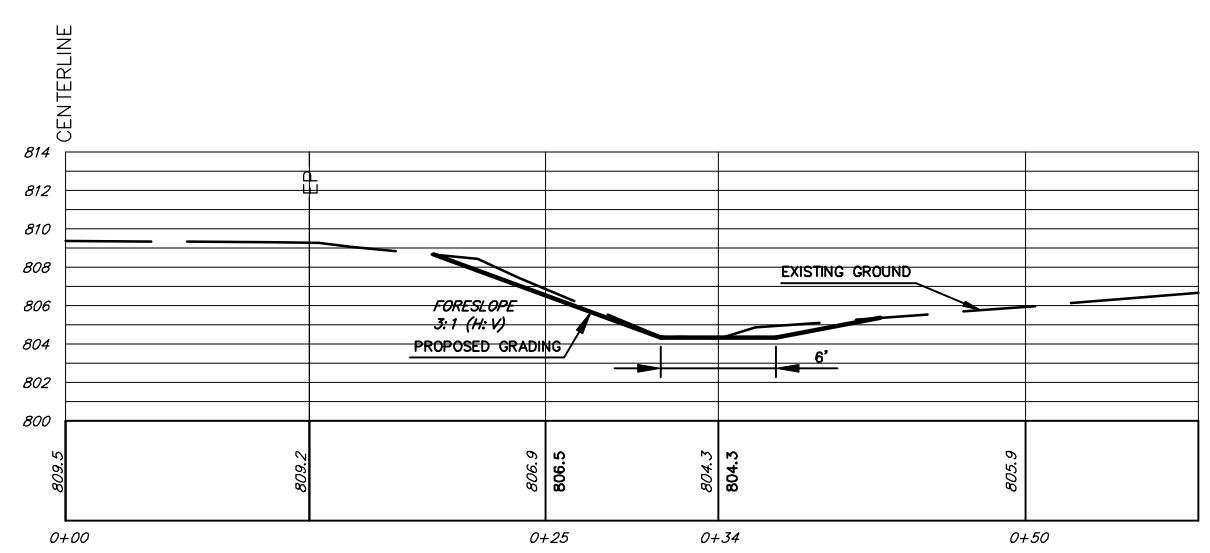
SOUTH DTCH  
STA: 13+00  
HORIZ. 1"=10'  
VERT. 1"=10'



SOUTH DTCH  
STA: 14+00  
HORIZ. 1"=10'  
VERT. 1"=10'

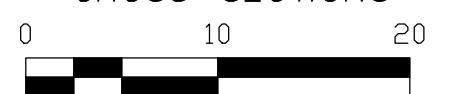


SOUTH DTCH  
STA: 15+00  
HORIZ. 1"=10'  
VERT. 1"=10'



SOUTH DTCH  
STA: 16+00  
HORIZ. 1"=10'  
VERT. 1"=10'

CR 100 W ROAD SIDE DTCH  
CROSS-SECTIONS

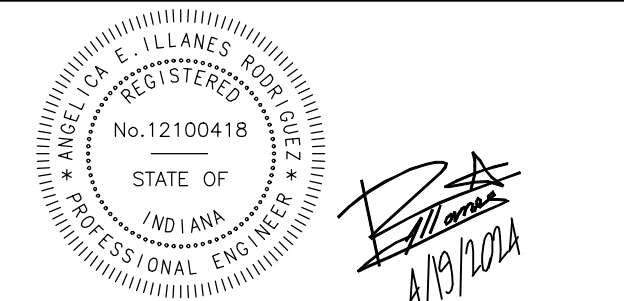


1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

**DUNELAND GROUP**  
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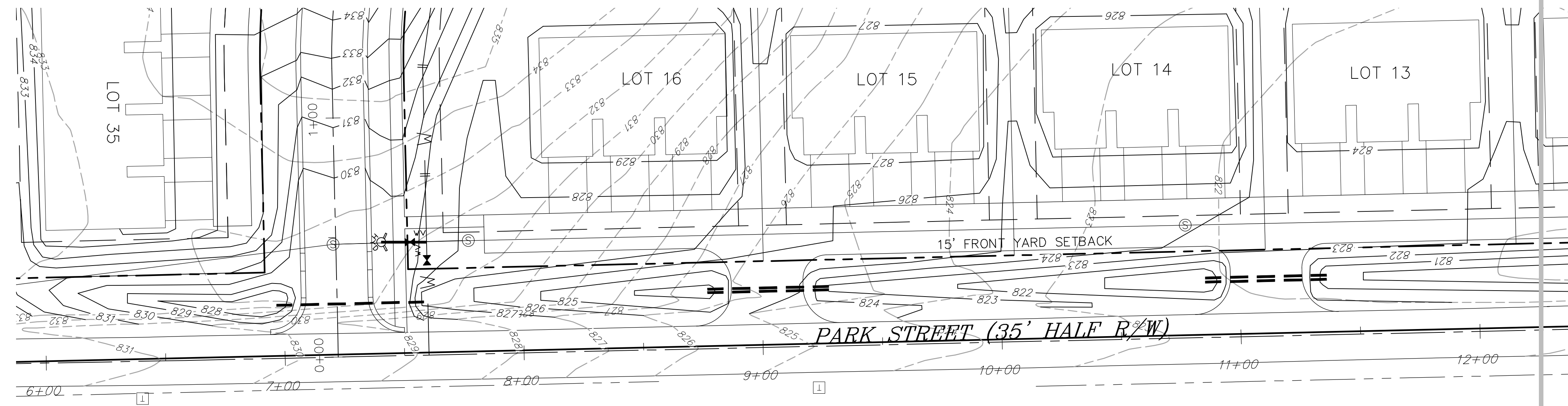
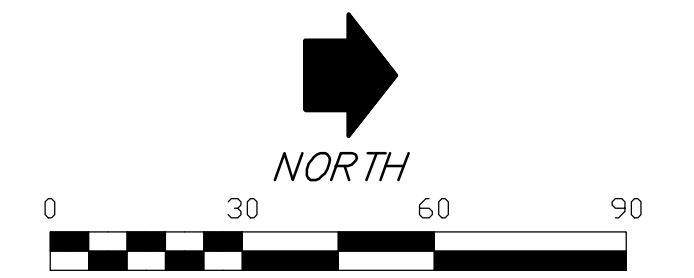


DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=10'						ROAD
VERT. SCALE: 1"=10'						EROSION
PROJECT STATUS						
PRELIMINARY						

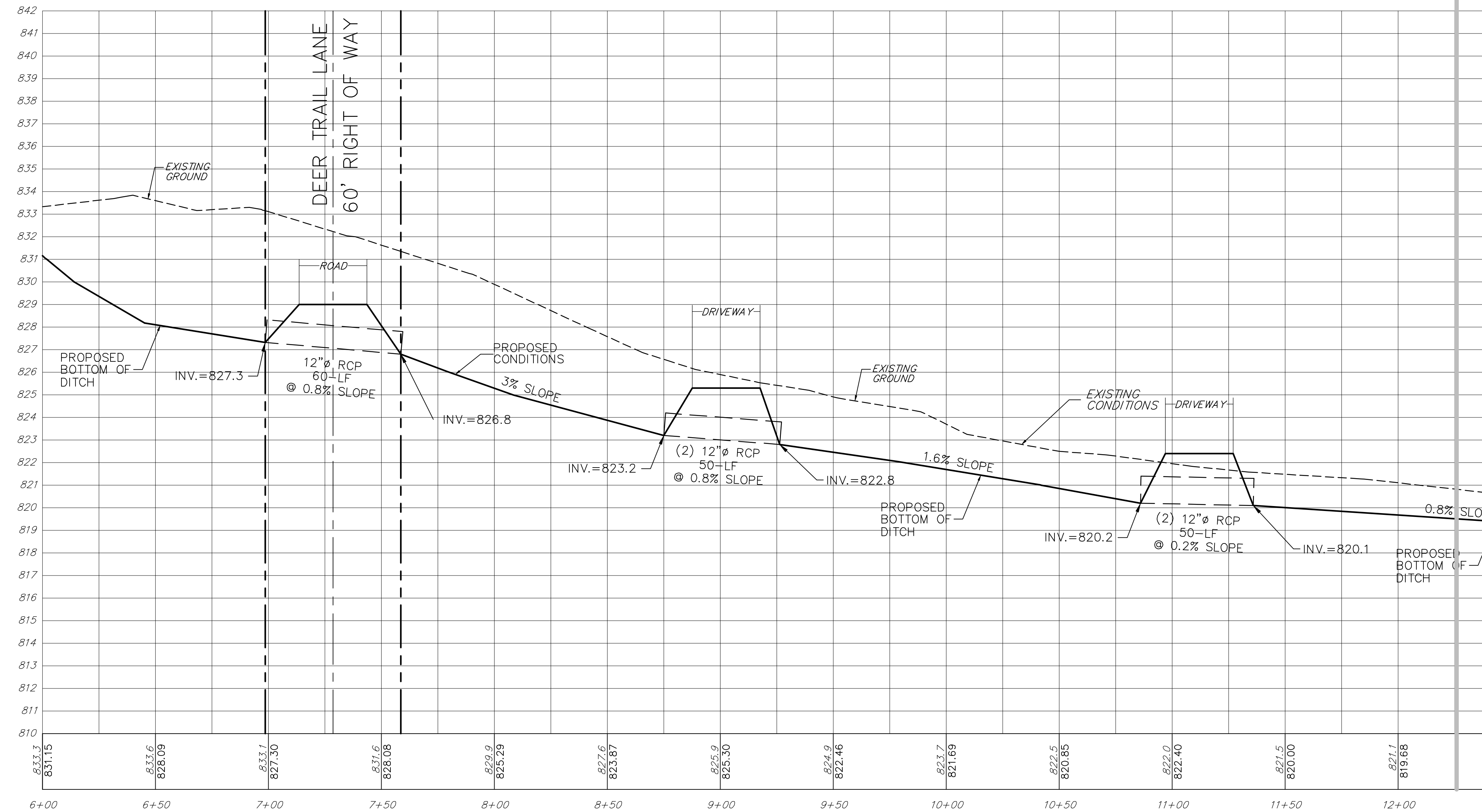


CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
CR 100 W DITCH STA. 11+00-16+00

SHEET C-28  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.28



**PARK STREET & DITCH**  
PLAN VIEW



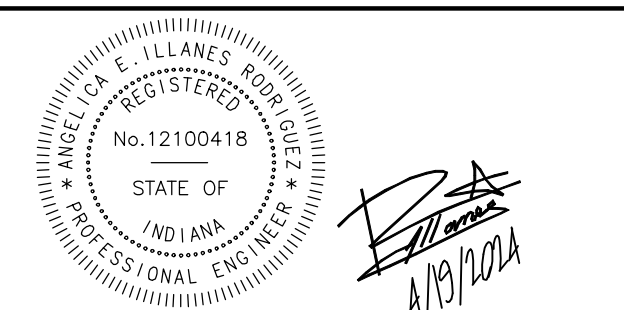
**PARK STREET & DITCH**  
PROFILE

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

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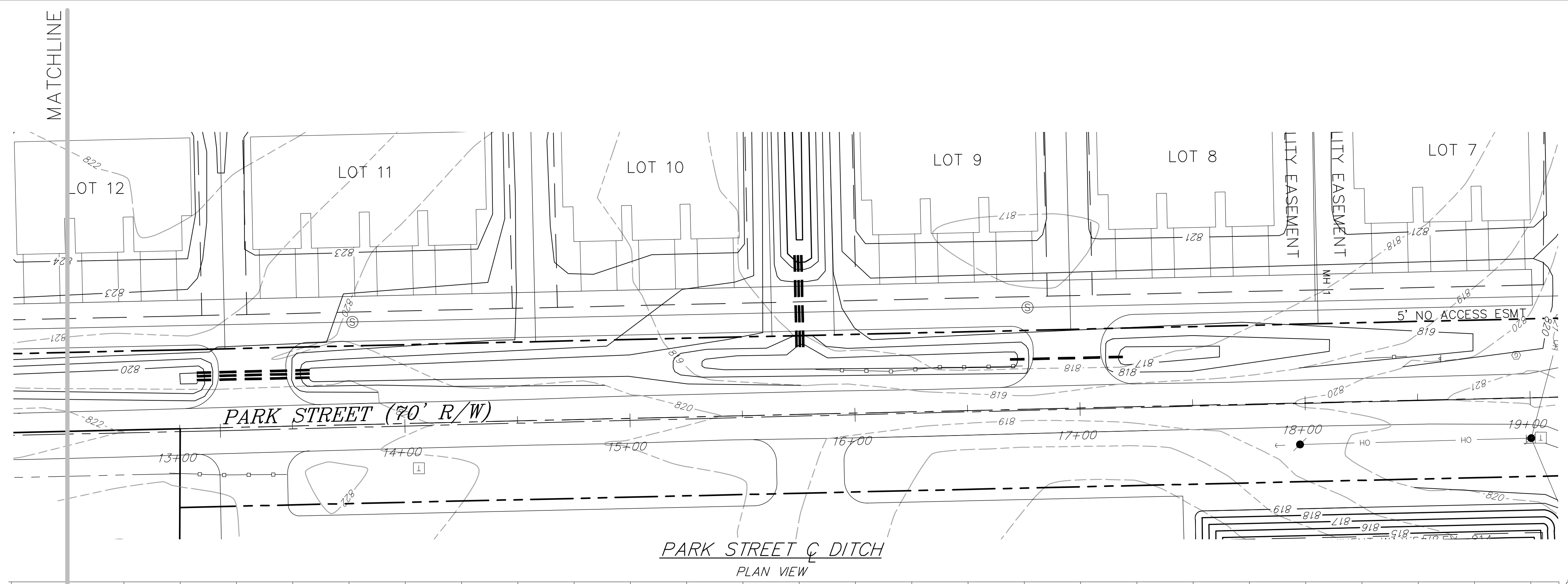
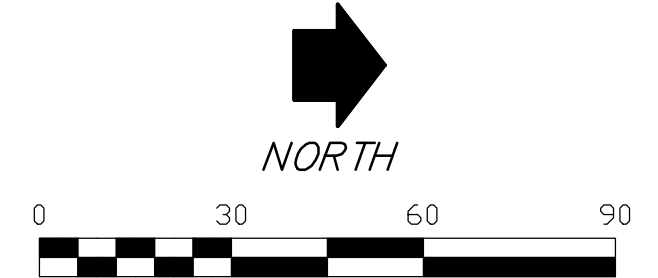


DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						

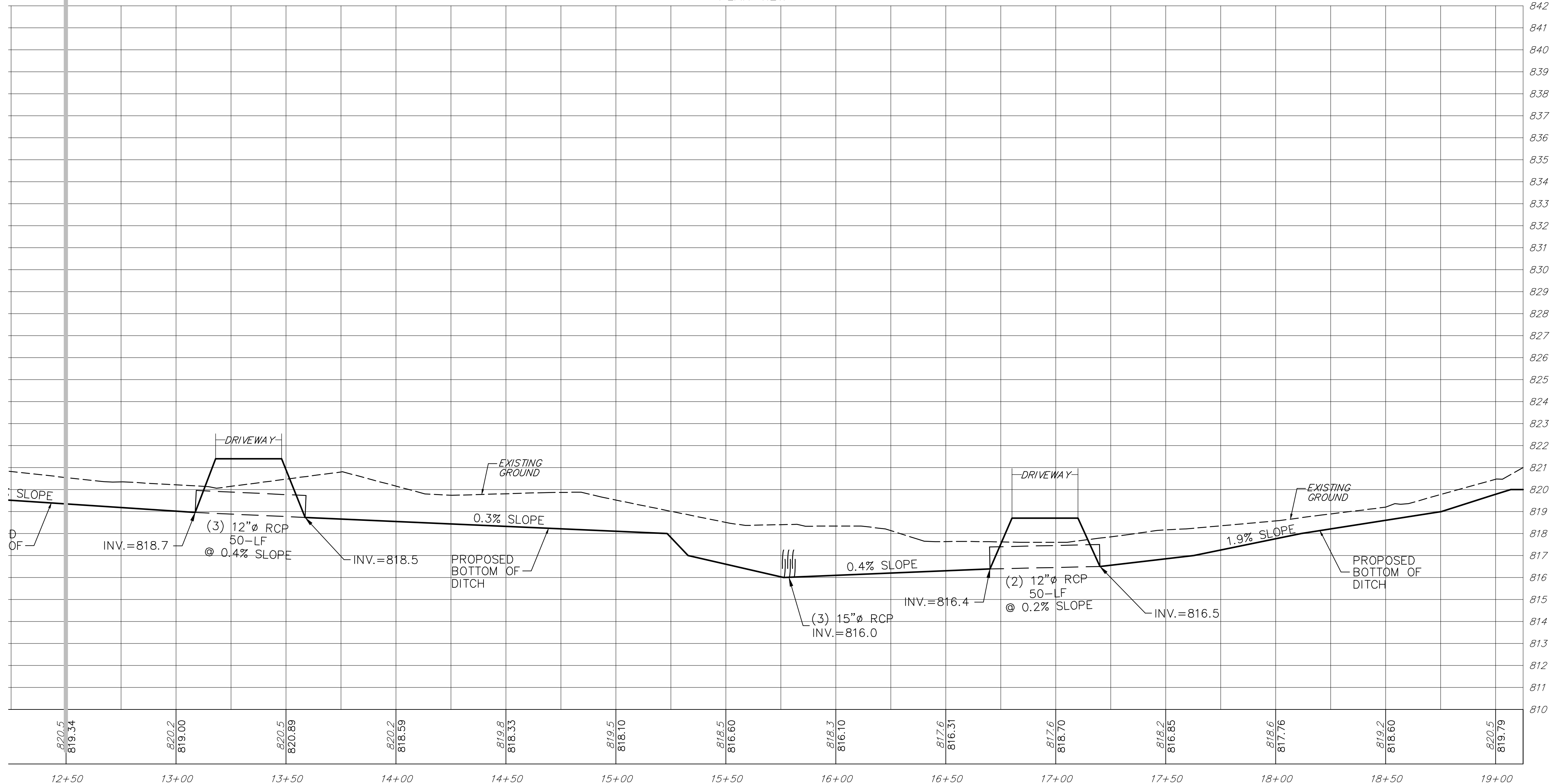


CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
SHEET *C-29*  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.29  
**PARK STREET DITCH PLAN/ PROFILE**





PARK STREET & DITCH  
PLAN VIEW



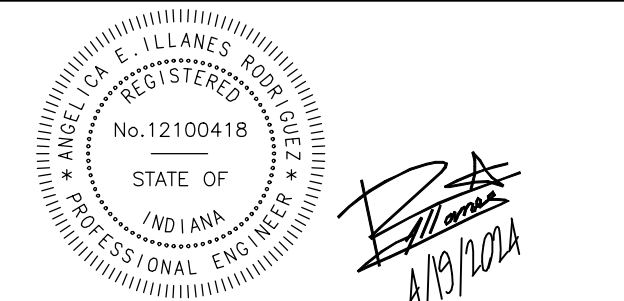
PARK STREET & DITCH  
PROFILE

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS.

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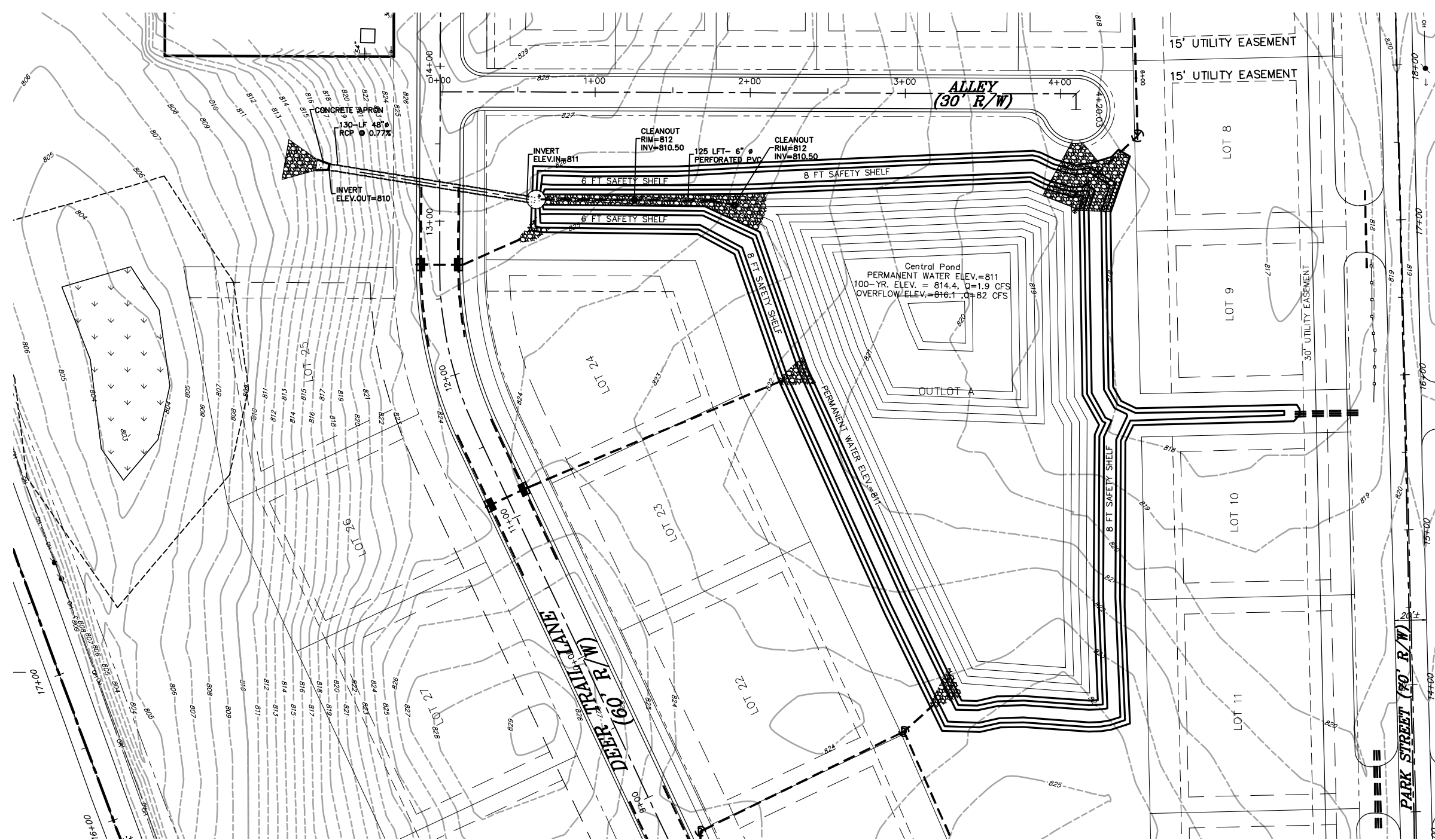


DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						



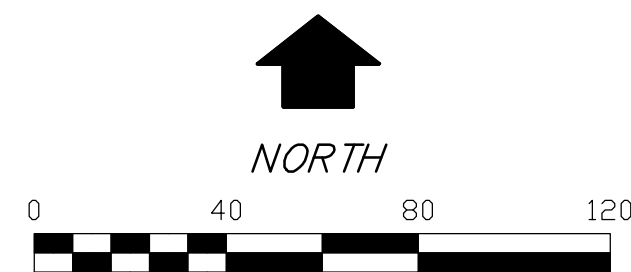
CITY OF LA PORTE INDIANA  
**HUNTER WOODS**  
SHEET C-30  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.30  
**PARK STREET DITCH PLAN/ PROFILE**





**PLAN VIEW**

1" = 60'



**PYRAMID STRUCTURES (STANDARD SIZES)**  
DIMENSIONS IN INCHES TO THE NEAREST 1/4"  
\*AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY\*

HOST STRUCTURE INSIDE DIMENSIONS	
PART NUMBER:	<b>PYD-96</b>
TYPE OF PIPE MOUNTING TO:	<b>CONCRETE</b>
INSIDE DIAMETER OF PIPE:	<b>96"</b>

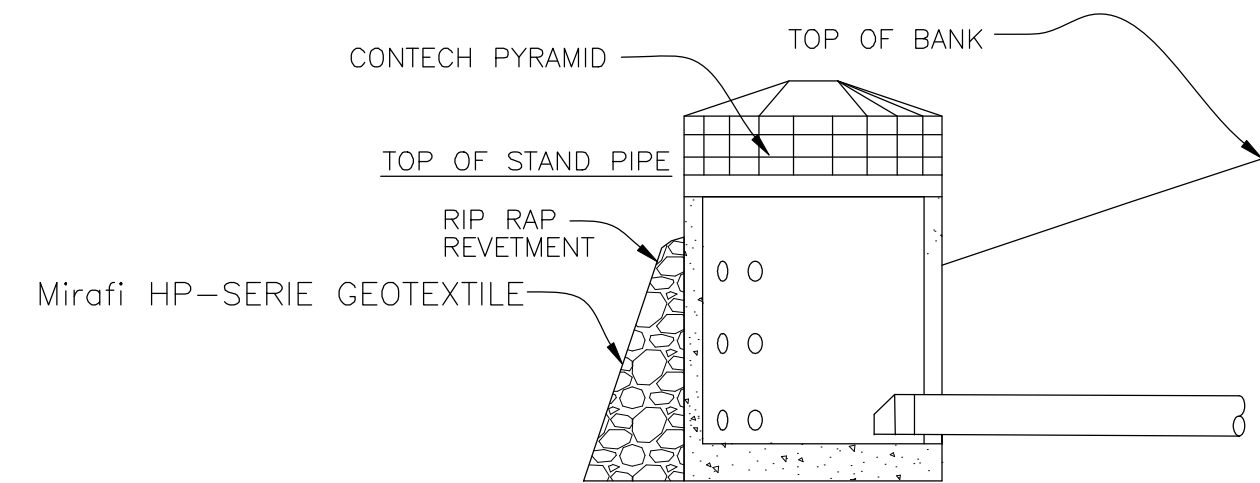
**PYRAMID RACKS FOR CONCRETE PIPE**

PART NO.	PIPE I.D.*	PIPE O.D.*	A"	B"	C"
PYD-24	24	30	33 1/2	12 1/2	15 3/4
PYD-36	36	44	43	12 1/2	19 1/4
PYD-48	48	58	57	12 1/2	20 1/4
PYD-60	60	72	68 1/2	12 1/2	20 1/2
PYD-72	72	86	84	18	27 1/2
PYD-84	84	100	94 1/2	18	32 1/2
PYD-96	96	114	113	23	39 1/2

**PYRAMID RACKS FOR PLASTIC OR METAL PIPE**  
(PYD RACKS HAVE A MINIMUM 3-GRID SIZE RISE TO ACCOMMODATE SLOTTED HOLES.)

PART NO.	CORRUGATED	RISE	A"	B"	C"
PYDP-24	12,15,18	12,15,18	33 1/2	18	21 1/4
PYDP-36	21,24,27,30	24,30	43	18	24 3/4
PYDP-48	33,36,42	36,42	57	18	26 3/4
PYDP-60	48,54	48	68 1/2	18	26
PYDP-72	60,66	60	84	23 1/2	33
PYDP-84	72,78	N/A	94 1/2	23 1/2	38
PYDP-96	84,90,96	N/A	113	28 1/2	45

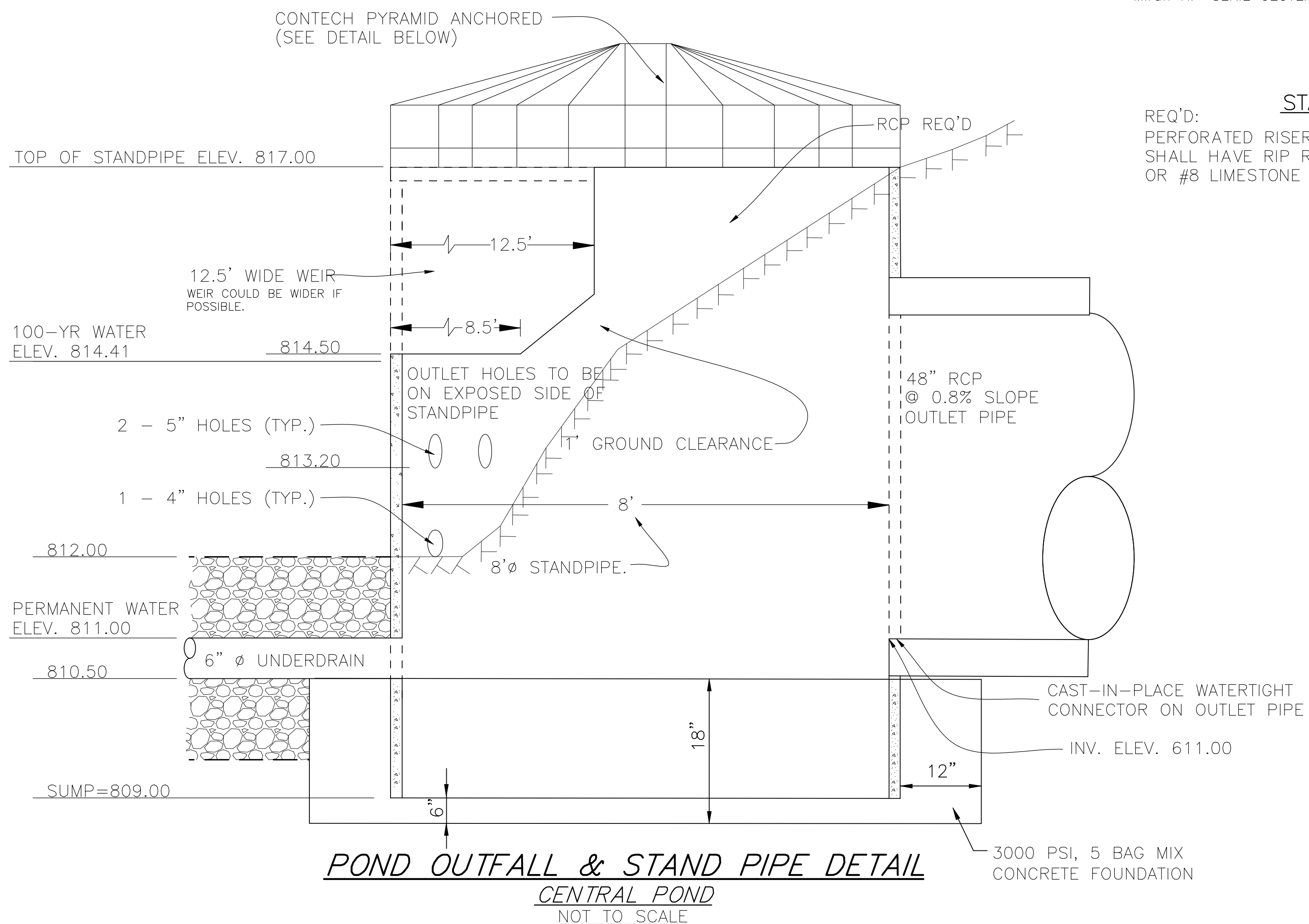
CUSTOMER: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
APP'D BY: \_\_\_\_\_  
DETAIL: \_\_\_\_\_



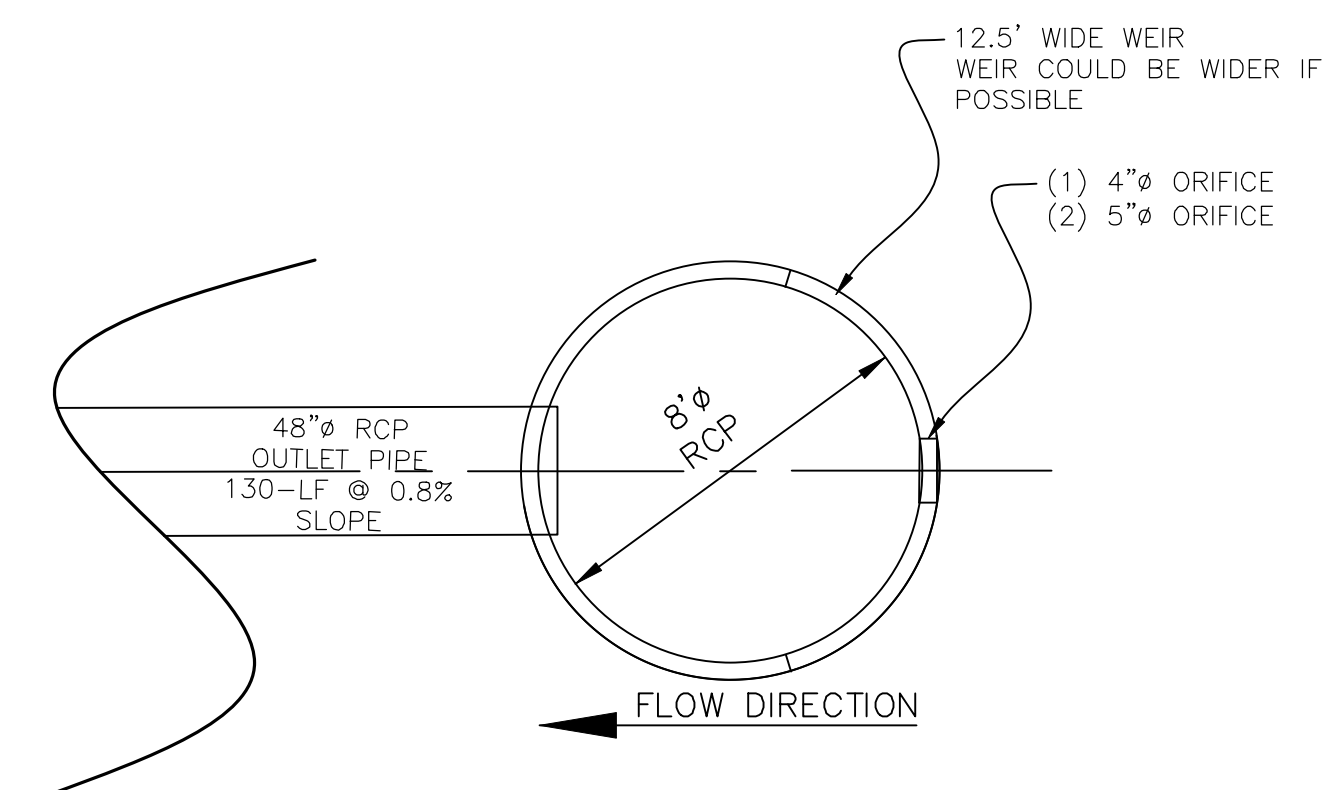
**STAND PIPE EROSION CONTROL**

REQ'D:  
PERFORATED RISERS W/ HOLES < 4INØ  
SHALL HAVE RIP RAP, REVETMENT, THEN INDOT APPROVED #5 OR #8 LIMESTONE GRADUATED FILTER AROUND THE RISER.

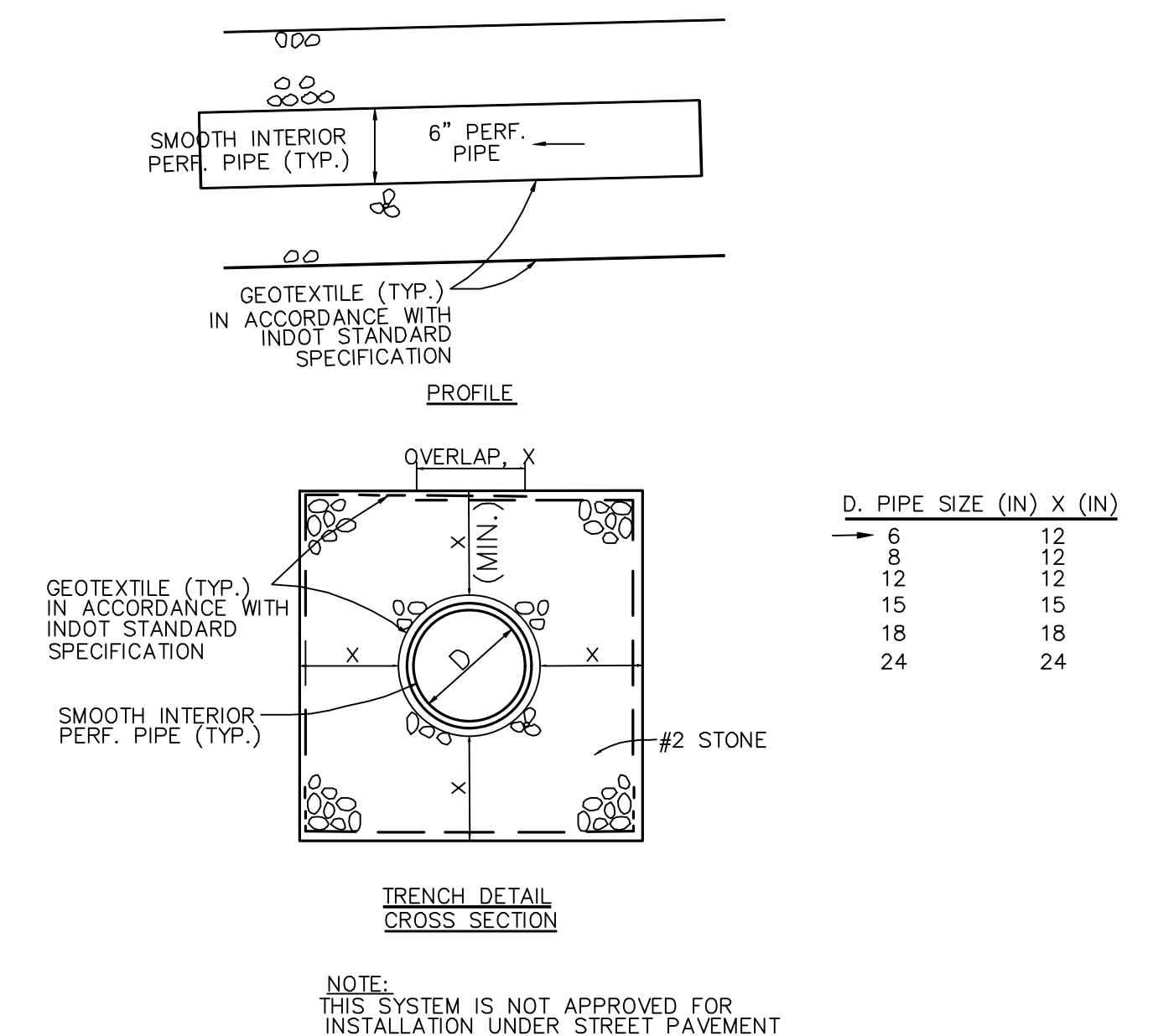
BASIN CHARACTERISTICS	Central Pond
100-YR On-site High Water Elevation	814.4
Storage required (cuft)	382,449
Storage On-site provided (cuft)	382,449 @ 814.4
Release provided (cfs) & Drain Time (hrs)	1.9 cfs @ 236 hr
Storage provided with 1ft freeboard (cuft)	456,121 @ 815.4
Storage provided for Emergency Overflow (cuft)	510,563 @ 816.10
Release Emergency Overflow (cfs) & Drain Time (h)	82.03 @ 239 hrs
Wet-Bottom Pond Elevation	811



**POND OUTFALL & STAND PIPE DETAIL**  
CENTRAL POND  
NOT TO SCALE



**STAND PIPE ENLARGED TOP VIEW**  
CENTRAL POND  
NOT TO SCALE



**UNDER DRAIN DETAIL**

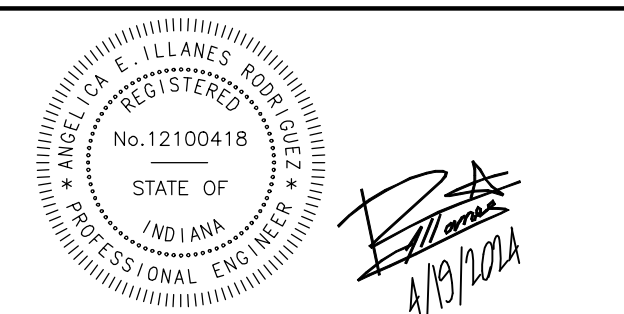
NOTE:  
THIS SYSTEM IS NOT APPROVED FOR INSTALLATION UNDER STREET PAVEMENT

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS..

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NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	CHK'D: SCC			SANITARY
DATE: 4/19/2024	APPR'VD: CLR			WATER
HORIZ. SCALE: 1"=30'				ROAD
VERT. SCALE: 1"=3'				EROSION
PROJECT STATUS				
PRELIMINARY				



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

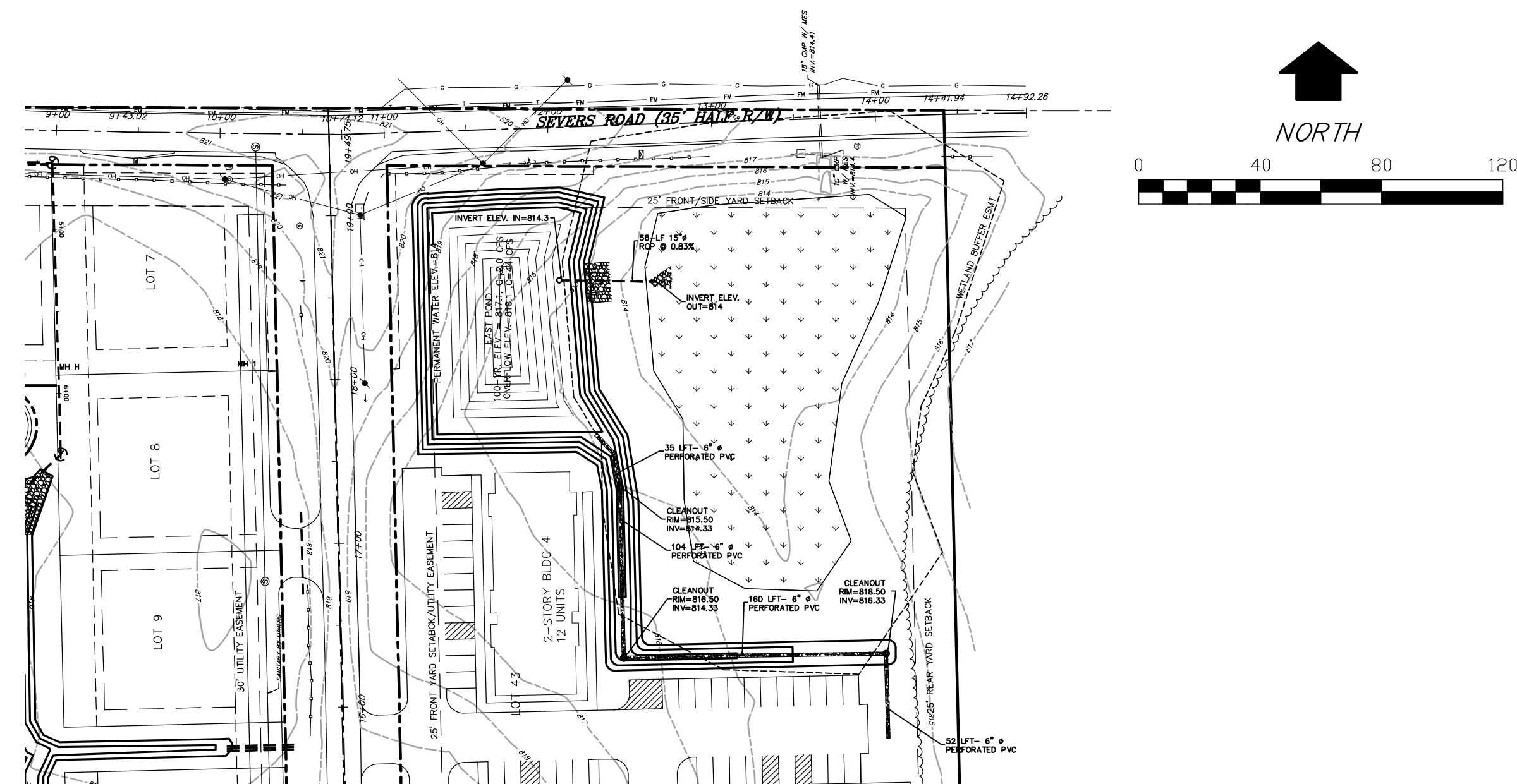
**CENTRAL POND STORM WATER DETAILS**

SHEET **C-31**

PROJECT NUMBER 3139

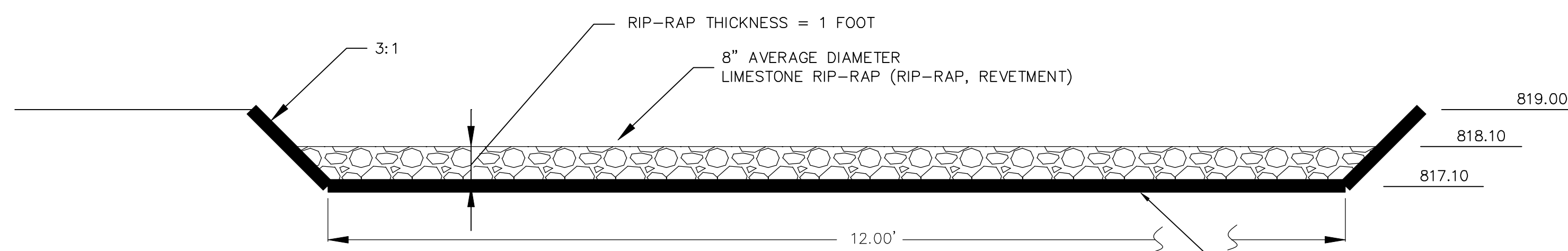
DRAWING NUMBER 3139.000.31



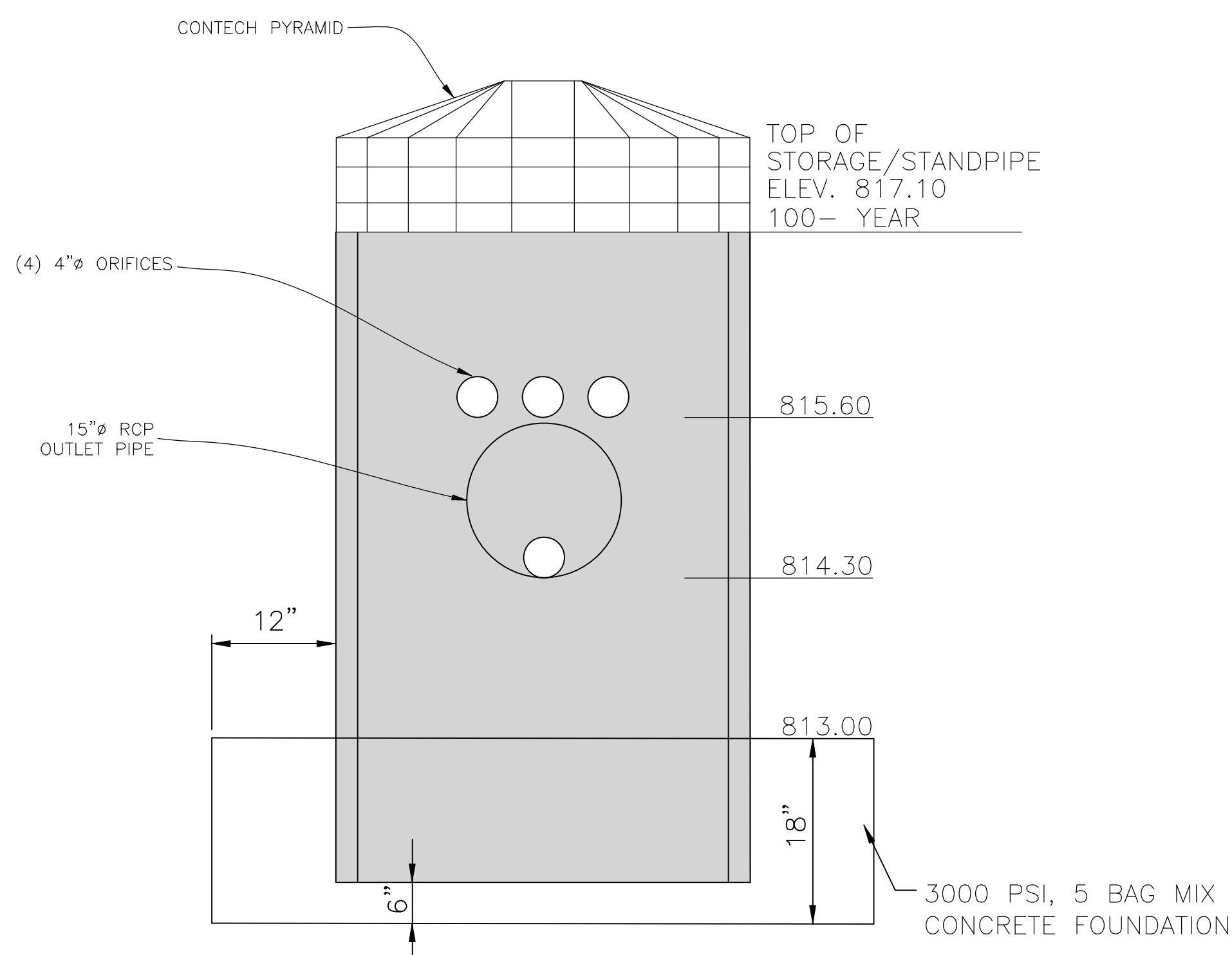


**PLAN VIEW**

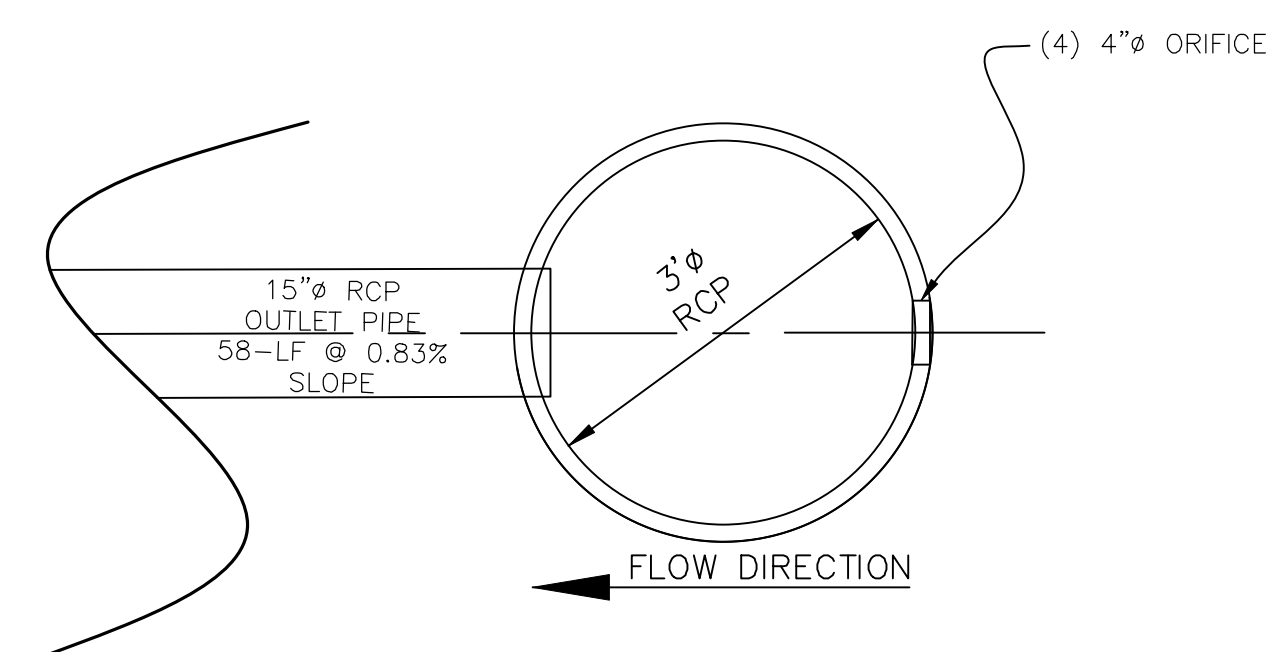
1" = 60'



**POND EMERGENCY OVERFLOW DETAIL**  
APARTMENT COMPLEX—EAST POND



**POND OUTFALL & STAND PIPE DETAIL**  
APARTMENT COMPLEX — EAST POND  
NOT TO SCALE



**STAND PIPE ENLARGED TOP VIEW**  
APARTMENT COMPLEX—EAST POND  
NOT TO SCALE

PYRAMID RACKS FOR CONCRETE PIPE

PART NO.	PIPE I.D.*	PIPE O.D.*	A"	B"	C"
PYD-24	24	30	33 1/2	12 1/2	15 3/4
PYD-36	36	44	43	12 1/2	19 1/4
PYD-48	48	58	57	12 1/2	20 1/4
PYD-60	60	72	68 1/2	12 1/2	20 1/2
PYD-72	72	86	84	18	27 1/2
PYD-84	84	100	94 1/2	18	32 1/2
PYD-96	96	114	113	23	39 1/2

PYRAMID RACKS FOR PLASTIC OR METAL PIPE  
(PYD RACKS HAVE A MINIMUM 3-ORB SIZE HOLE TO ACCOMMODATE BOUNCING STONE.)

PART NO.	CORRUGATED PIPE	PIPE	A"	B"	C"
PYDP-24	12,15,18	12,15,18	33 1/2	18	21 1/4
PYDP-36	21,24,27,30	24,30	43	18	24 3/4
PYDP-48	33,36,42	36,42	57	18	26 3/4
PYDP-60	48,54	48	68 1/2	18	26
PYDP-72	60,66	60	84	23 1/2	33
PYDP-84	72,78	N/A	94 1/2	23 1/2	38
PYDP-96	84,90,96	N/A	113	28 1/2	45

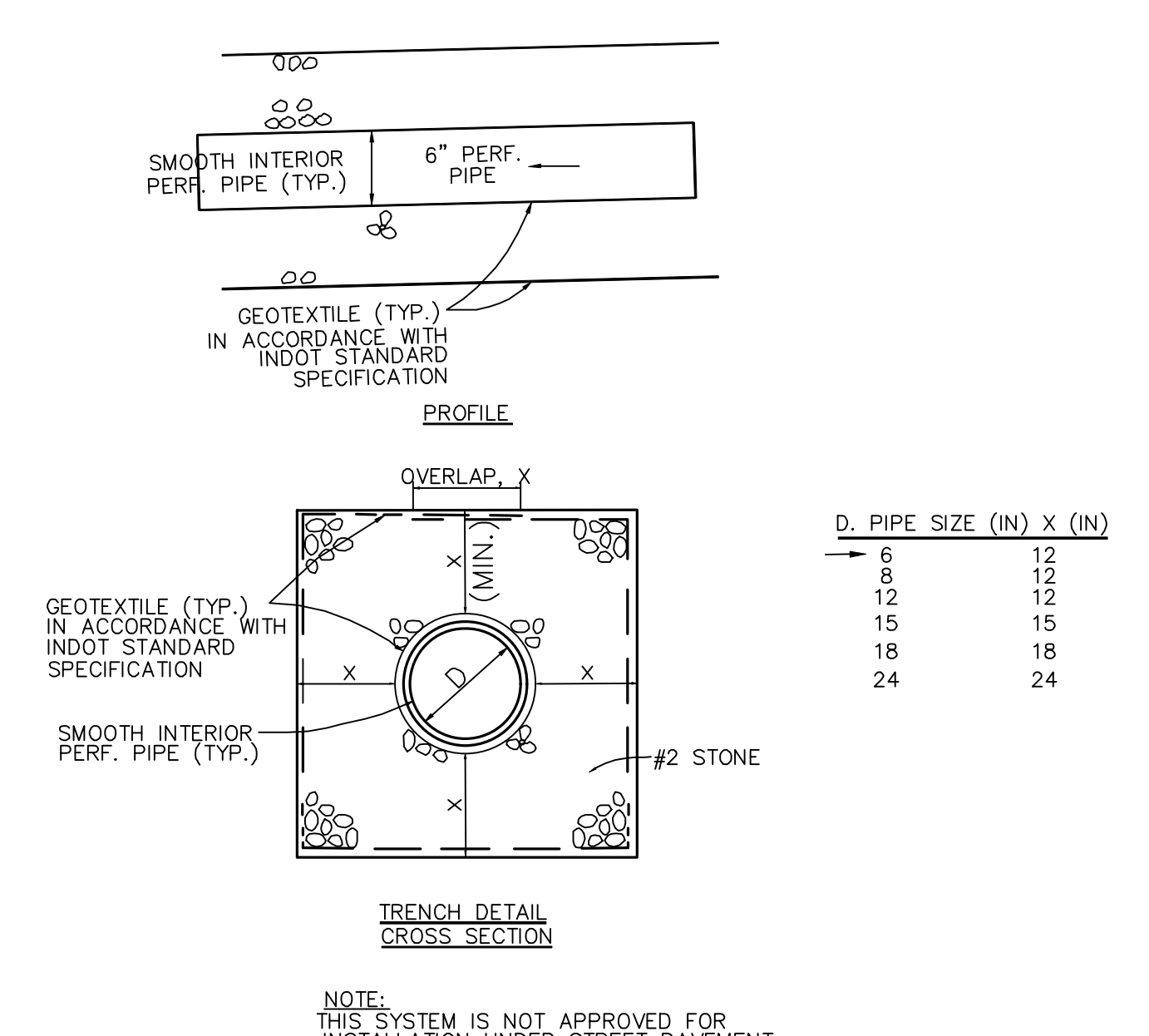
**PYRAMID STRUCTURES (STANDARD SIZES)**  
DIMENSIONS IN INCHES TO THE NEAREST 1/4"  
\*AS DISTRIBUTED BY CONTECH CONSTRUCTION PRODUCTS NATIONALLY\*

HOST STRUCTURE INSIDE DIMENSIONS	
PART NUMBER:	<b>PYD-36</b>
TYPE OF PIPE MOUNTING TO:	<b>CONCRETE</b>
INSIDE DIAMETER OF PIPE:	<b>36"</b>

**CONTECH CONSTRUCTION PRODUCTS INC.**  
1800 S. STATE ST., SUITE 400  
MELBOURNE, FL 32909  
PH: 1-800-326-1122 FAX: 321-245-7399 © COPYRIGHT

CUSTOMER: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
APP'D BY: \_\_\_\_\_  
DETAIL: \_\_\_\_\_

BASIN CHARACTERISTICS		East Pond
100-YR On-site High Water Elevation		817.05
Storage required (cuft)		76,712
Storage On-site provided (cuft)		76,712 @ 817.05
Release provided (cfs) & Drain Time (hrs)		2.0 cfs @ 66 hrs
Storage provided with 1 ft freeboard (cuft)		97,414 @ 818.1
Storage provided for Emergency Overflow (cuft)		94,955 @ 818.0
Release Emergency Overflow (cfs) & Drain Time (h)		43.8 @ 66 hrs
Wet-Bottom Pond Elevation		814.3



**UNDER DRAIN DETAIL**

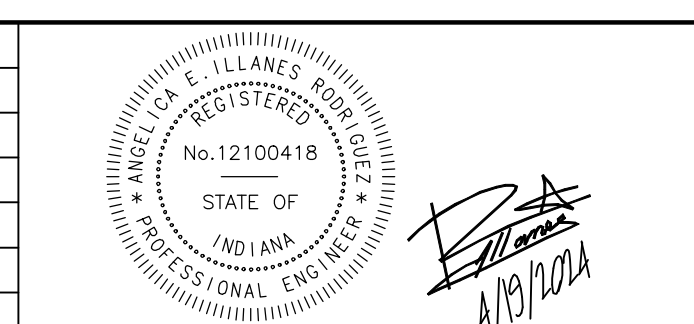
NOTE: THIS SYSTEM IS NOT APPROVED FOR INSTALLATION UNDER STREET PAVEMENT

1. WHEN PIPE ENTERS A DITCH OR POND, THE OUTLET SHALL BE PROTECTED WITH APPROPRIATE END SECTION AND RIP RAP PAD. THIS SHALL NOT APPLY TO PIPES THROUGH WINGWALLS..

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NO.	REVISION	BY	DATE



CITY OF LAPORTE INDIANA

**HUNTER WOODS**

**EAST POND STORM WATER DETAILS**

SHEET **C-32**

PROJECT NUMBER **3139**

DRAWING NUMBER **3139.000.32**

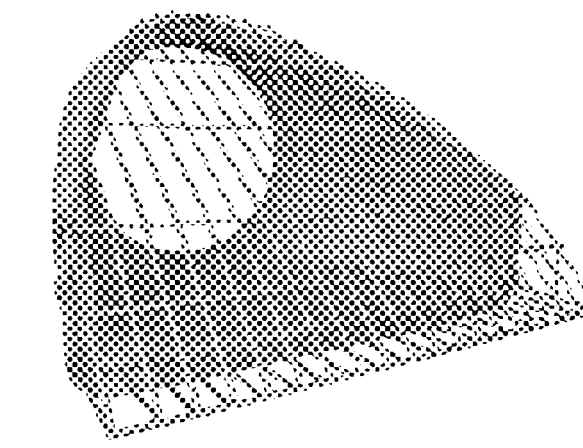


Structure I.D.	Casting	Inlet Structure	Rim Elevation	Invert Elevation		Underdrain Elevation
				IN	OUT	
DMH1	Neenah Type R-1580	TYPE MH	834.00	829.20	829.20	No
DMH2	Neenah Type R-1580	TYPE MH	825.50	821.60	821.60	No
DMH3	Neenah Type R-1580	TYPE MH	825.50	819.85	819.60	No
DMH4	Neenah Type R-1580	TYPE MH	824.83	820.30	820.30	No
DMH5	Neenah Type R-1580	TYPE MH	824.15	818.47	817.72	No
CB1	Neenah Type R-3501-L1A	Catch Basin	818.24	815.10	815.10	Yes
CB2	Neenah Type R-3501-L1A	Catch Basin	834.61	829.90	829.90	Yes
CB3	Neenah Type R-3501-L1A	Catch Basin	831.74	827.70	827.70	Yes
CB4	Neenah Type R-3501-L1A	Catch Basin	827.90	823.70	823.70	Yes
CB5	Neenah Type R-3501-L1A	Catch Basin	824.30	820.77	820.52	Yes
CB6	Neenah Type R-3501-L1A	Catch Basin	823.95	820.50	820.25	Yes
CB7	Neenah Type R-3501-L1A	Catch Basin	824.63	820.40	820.40	Yes
INL1	Neenah Type R-3501-L1A	Gutter Inlet	818.24	-	815.26	Yes
INL2	Neenah Type R-3501-L1A	Gutter Inlet	834.61	-	830.40	Yes
INL3	Neenah Type R-3501-L1A	Gutter Inlet	831.74	-	828.00	Yes
INL4	Neenah Type R-3501-L1A	Gutter Inlet	827.90	-	824.00	Yes
INL5	Neenah Type R-3501-L1A	Gutter Inlet	824.30	-	821.20	Yes
INL6	Neenah Type R-3501-L1A	Gutter Inlet	823.95	-	820.95	Yes
INL7	Neenah Type R-3501-L1A	Gutter Inlet	824.63	-	821.18	Yes
YD1	Neenah Type R-2561	Beehive Inlet	818.48	814.55	814.55	No
YD2	Neenah Type R-2561	Beehive Inlet	818.35	813.70	813.45	No
YD3	Neenah Type R-2561	Beehive Inlet	818.21	812.60	812.60	No
YD4	Neenah Type R-2561	Beehive Inlet	818.15	812.25	812.00	No
YD5	Neenah Type R-2561	Beehive Inlet	817.63	811.24	811.24	No
OUTLET 1	For 18" HDPE Pipe	End section	-	-	811.00	-
OUTLET 2	For 12" HDPE Pipe	End section	-	-	827.00	-
OUTLET 3	For 12" HDPE Pipe	End section	-	-	825.50	-
OUTLET 4	For 24" RCP Pipe	End section	-	-	817.50	-
OUTLET 5	For 15" HDPE Pipe	End section	-	-	818.85	-
OUTLET 6	For 12" HDPE Pipe	End section	-	-	819.00	-

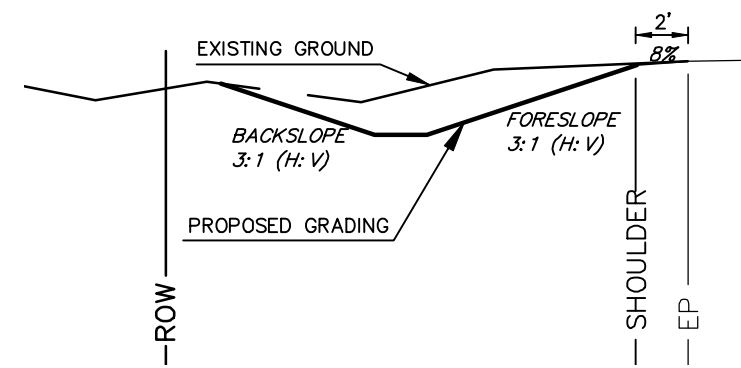
NOTE: CONTRACTOR SHALL VERIFY SIZES PRIOR TO ORDERING.  
Casting shall have 2-inch-high-letters indicating "Storm Sewer"

Structure I.D.	Diameter (in)	Line Length	Slope of Invert	Invert Elevation		Casting Elevation		Pipe Material
				Upper	Lower	Upper	Lower	
INL1 - CB1	12	30	0.53	815.26	815.10	818.24	818.24	RCP
CB1 - YD1	12	97	0.57	815.1	814.55	818.24	818.48	HDPE
YD1 - YD2	12	132	0.64	814.55	813.7	818.48	818.35	HDPE
YD2 - YD3	15	144	0.59	813.45	812.6	818.35	818.21	HDPE
YD3 - YD4	15	57	0.62	812.6	812.25	818.21	818.15	HDPE
YD4 - YD5	18	178	0.43	812	811.24	818.15	817.63	HDPE
YD5 - OUTLET	18	54	0.45	811.24	811	817.63	-	HDPE
INL2 - CB2	12	30	1.67	830.4	829.9	834.61	834.61	RCP
CB2 - DMH1	12	36	1.96	829.9	829.2	834.61	834	HDPE
DMH1 - OUTLET	12	108	2.04	829.2	827	834	-	HDPE
INL3 - CB3	12	30	1	828	827.7	831.74	831.74	RCP
CB3 - OUTLET	12	175	1.26	827.7	825.5	831.74	-	HDPE
INL4 - CB4	12	30	1	824	823.7	827.9	827.9	RCP
CB4 - DMH2	12	153	1.38	823.7	821.6	827.9	825.5	HDPE
DMH2 - DMH3	12	108	1.62	821.6	819.85	825.5	825.5	HDPE
DMH3 - DMH5	15	128	0.89	819.6	818.47	825.5	824.15	HDPE
DMH5 - OUTLET	24	21	1.06	817.72	817.5	824.15	-	RCP
INL5 - CB5	12	30	1.43	821.2	820.77	824.3	824.3	RCP
CB5 - DMH4	15	15	1.52	820.52	820.3	824.3	824.83	HDPE
DMH4 - DMH5	15	146	1.25	820.3	818.47	824.83	824.15	HDPE
INL6 - CB6	12	30	1.5	820.95	820.5	823.95	823.95	RCP
CB6 - OUTLET	15	168	0.83	820.25	818.85	823.95	-	HDPE
INL7 - CB7	12	30	2.6	821.18	820.4	824.63	824.63	RCP
CB7 - OUTLET	12	41	3.44	820.4	819	824.63	-	HDPE

SEE PARK STREET DITCH PLAN/PROFILE SHEETS FOR FRONTAGE ROAD CULVERT PIPE DETAILS

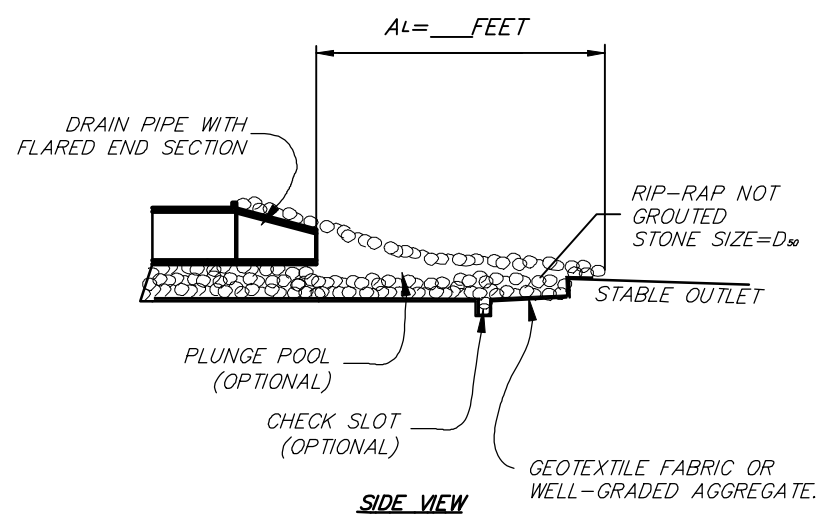
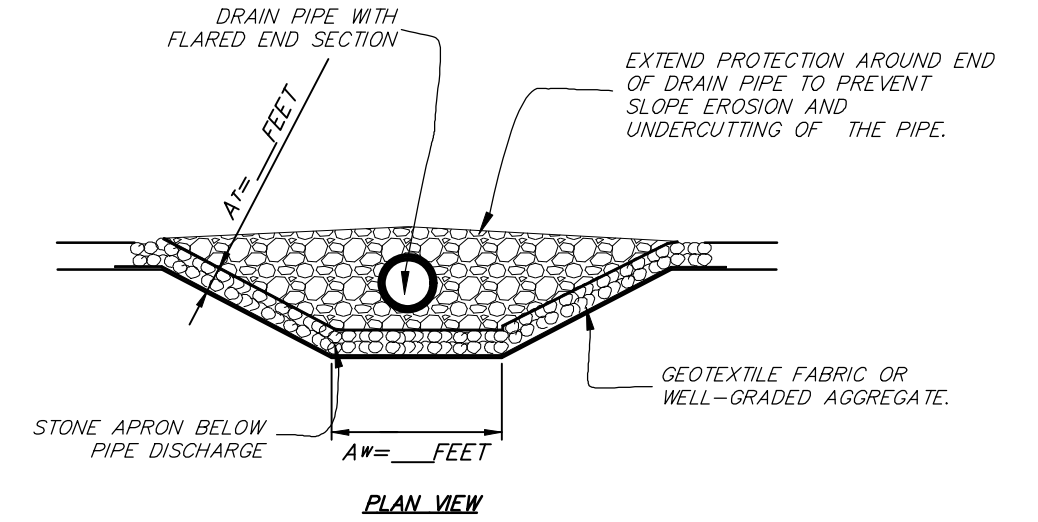


BULL NOSE TRASH GUARD FOR OUTLET PIPES



SWALE TYPICAL SECTION DETAILS

NOT TO SCALE



PIPE SIZE	AVERAGE RIPRAP Ø	APRON WIDTH	APRON LENGTH
8 IN	3 IN	2 TO 3 FT	5 TO 7 FT
12 IN	5 IN	3 TO 4 FT	6 TO 12 FT
18 IN	8 IN	4 TO 6 FT	8 TO 18 FT
24 IN	10 IN	6 TO 8 FT	12 TO 22 FT
30 IN	12 IN	8 TO 10 FT	14 TO 28 FT
36 IN	14 IN	10 TO 12 FT	16 TO 32 FT

- FOR LARGER OR HIGHER FLOWS CONSULT A REGISTERED ENGINEER.
- APRON WIDTH AT THE NARROW END OF APRON (PIPE OR CHANNEL OUTLET).
- SELECT LENGTH TAKING INTO CONSIDERATION THE LOW FLOW (NO PRESSURE HEAD) OR HIGH FLOW (PRESSURE HEAD) CONDITIONS OF THE CULVERT PIPE.
- MIN. APRON THICKNESS OR AT IS.
- 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A D<sub>50</sub> STONE SIZE OF 15 INCHES OR LARGER.
- 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A D<sub>50</sub> STONE SIZE OF 15 INCHES OR SMALLER.
- FOR ADDITIONAL INFORMATION ON INSTALLATION, MAINTENANCE, AND RIPRAP SIZE SELECTION, PLEASE SEE THE INDIANA STORM WATER QUALITY MANUAL OF OCTOBER 2007 OR LATER BY IDEM.

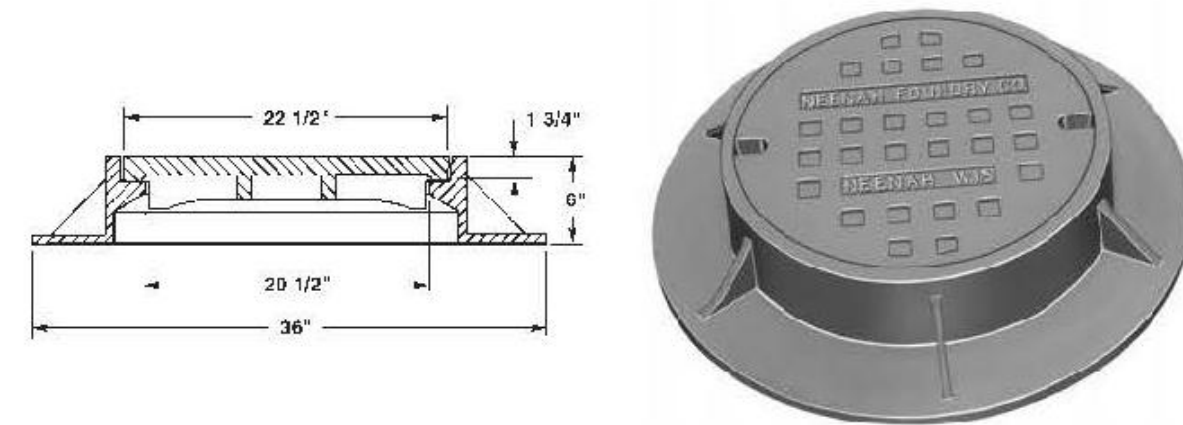
R-1580 Manhole Frame, Solid Lid

Heavy Duty

Non-Rocking feature available, see p. 12.  
Also available with 38" diameter frame flange.



Available Grate: R-2080  
(see Catch Basin Inlets, R-2000 Series table)

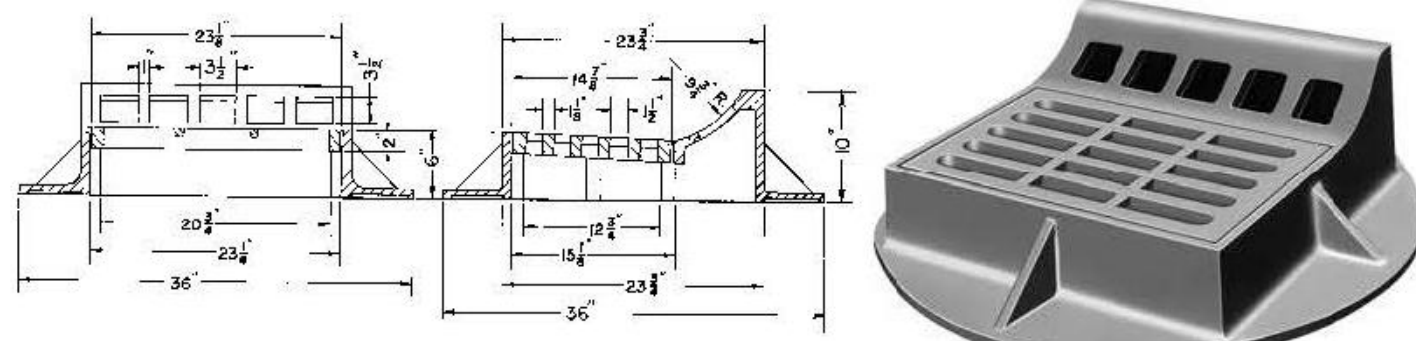


R-3501-L1A Inlet for Roll Type Curb

Heavy Duty

Available Lid: R-1733

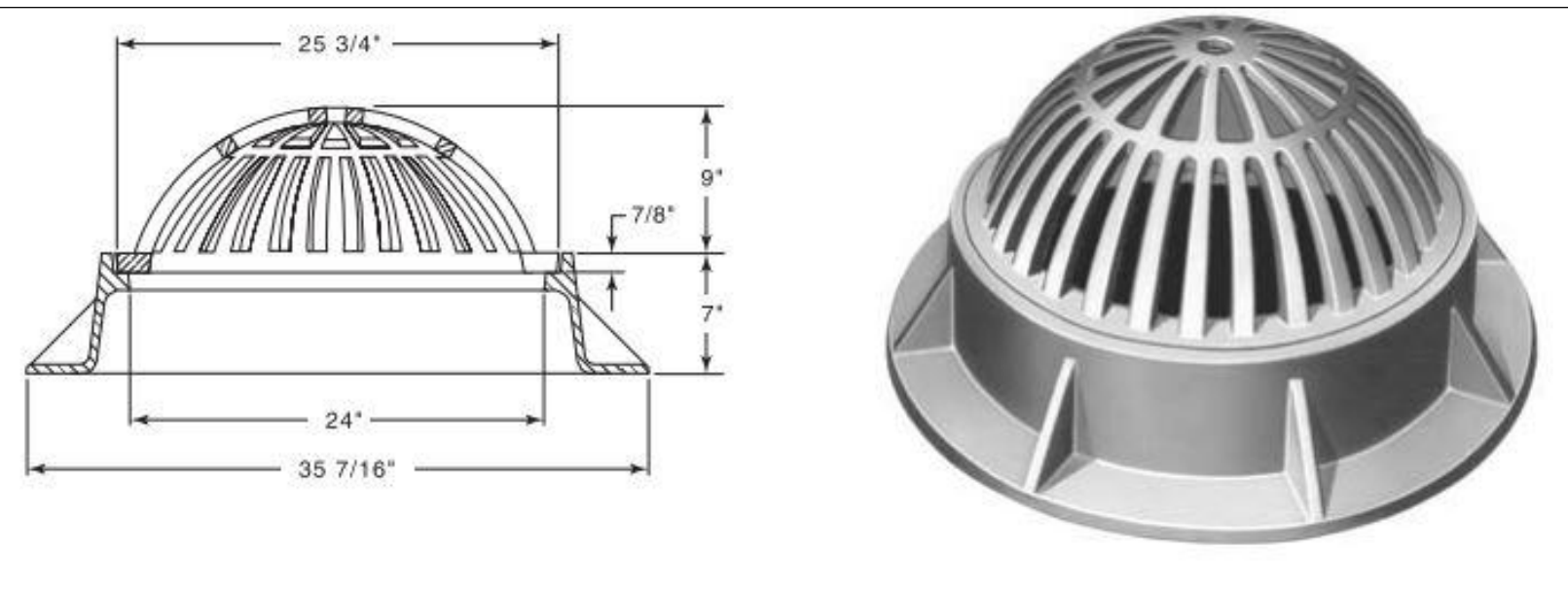
CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-3501-L1A	0	1.2	4.4



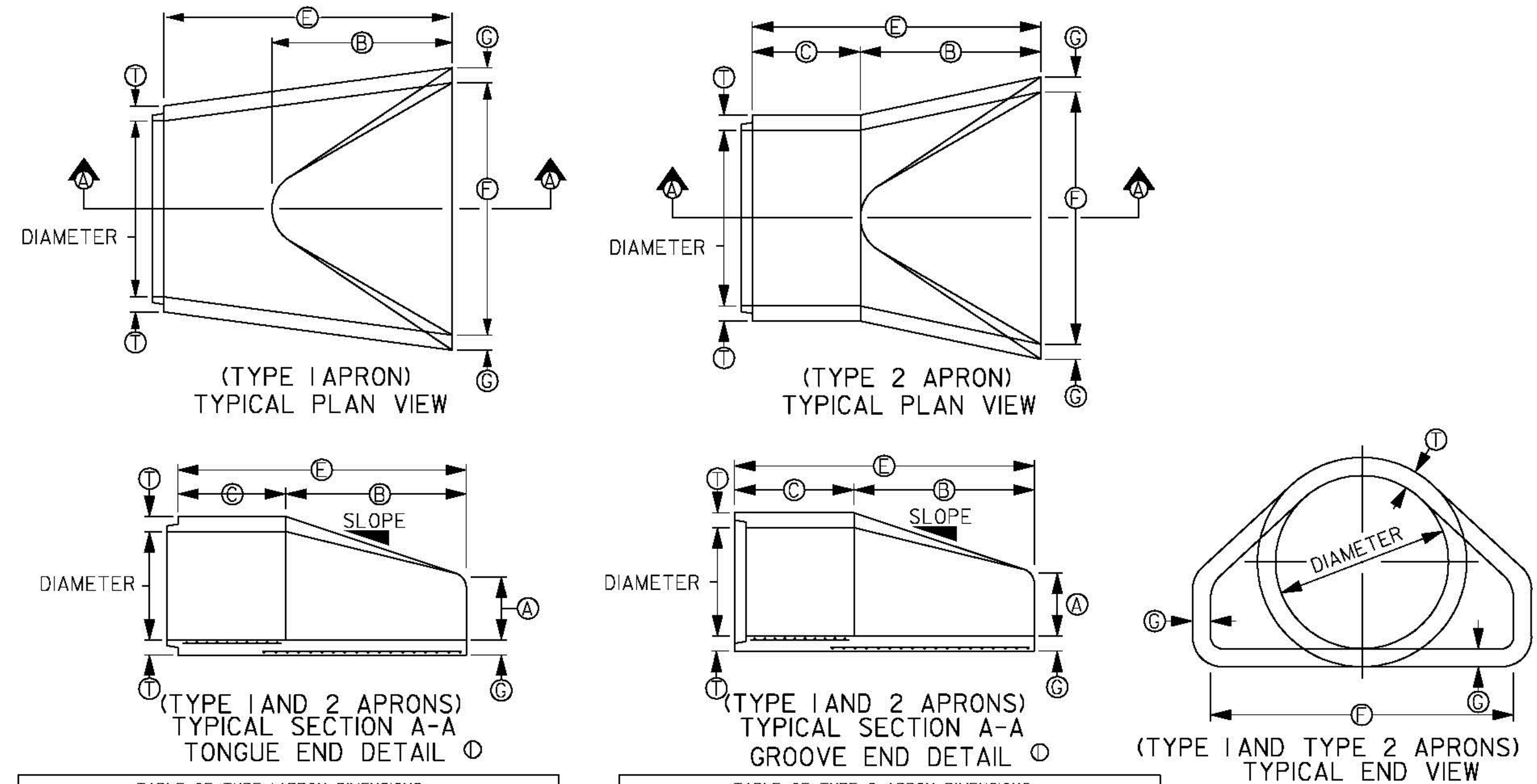
R-2561 Inlet Frame, Beehive Grate

CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-2561	Beehive	2.0	6.7

Available Lid: R-1733



OUTLET EROSION CONTROL DETAIL



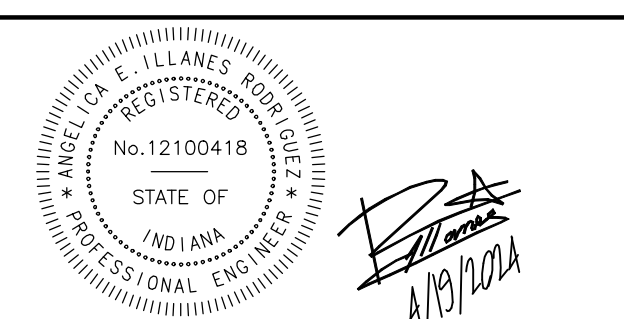
DIAM.	SLOPE	A	B	MINIMUM			G	T
				C	E	F		
12"	2.4d	4"	2'-0"	4'-7/8"	6'-1/8"	2'-0"	2"	2"
15"	2.4d	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	2 1/4"
18"	2.3d	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	2 1/2"
24"	2.5d	9 1/2"	3'-7 1/2"	2'-6"	6'-11/2"	4'-0"	3"	3"
30"	2.5d	12"	4'-6"	7'-3/4"	6'-13/4"	5'-0"	3 1/2"	3 1/2"
36"	2.5d	15"	5'-3"	2'-9"	8'-0"	6'-0"	4"	4"
42"	2.5d	21"	5'-3"	2'-9"	8'-0"	6'-6"	4 1/2"	4 1/2"
48"	2.5d	24"	6'-0"	2'-0"	8'-0"	7'-0"	5"	5"
54"	1.8d	27"	5'-0"	3'-0"	8'-0"	7'-6"	5 1/2"	5 1/2"
60"	1.6d	29 1/2"	5'-0"	3'-0"	8'-0"	8'-0"	5 1/2"	6"
66"	1.7d	30"	6'-0"	2'-3"	8'-3"	8'-0"	5 1/2"	6"
72"	1.6d	30"	6'-6"	1'-9"	8'-3"	9'-0"	6"	7"
78"	1.8d	36"	7'-6"	1'-9"	9'-3"	9'-6"	6 1/2"	7 1/2"
84"	1.3d	29 1/2"	6'-9"	2'-6 1/2"	8'-3 1/2"	10'-0"	6 1/2"	8"

DIAM.	SLOPE	A	B	MINIMUM			G	T
				C	E	F		
12"	2.4d	4"	2'-0"	4'-7/8"	6'-1/8"	2'-0"	2"	2"
15"	2.4d	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	2 1/4"
18"	2.3d	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	2 1/2"
24"	2.5d	9 1/2"	3'-7 1/2"	2'-6"	6'-11/2"	4'-0"	3"	3"
30"	2.5d	12"	4'-6"	7'-3/4"	6'-13/4"	5'-0"	3 1/2"	3 1/2"
36"	2.5d	15"	5'-3"	2'-9"	8'-0"	6'-0"	4"	4"
42"	2.5d	21"	5'-3"	2'-9"	8'-0"	6'-6"	4 1/2"	4 1/2"
48"	2.5d	24"	6'-0"	2'-0"	8'-0"	7'-0"	5"	5"
54"	1.9d	24 1/2"	5'-5"	3'-0"	8'-0"	7'-6"	5 1/2"	5 1/2"
60"	1.4d	24 1/2"	5'-5"	3'-0"	8'-0"	8'-0"	5 1/2"	6"
66"	1.7d	30"	6'-0"	2'-3"	8'-3"	8'-0"	5 1/2"	6"
72"	1.4d	24"	6'-6"	1'-9"	8'-3"	9'-0"	6"	7"
78"	1.8d	36"	7'-6"	1'-9"	9'-3"	9'-6"	6 1/2"	7 1/2"
84"	1.5d	23 1/2"	7'-6 1/2"	1'-9"	8'-3 1/2"	10'-0"	6 1/2"	8"

⊙ TONGUE END USED ON INLET END SECTION.  
GROOVE END USED ON OUTLET END SECTION.  
DIMENSIONS FOR TONGUE AND GROOVE CONNECTIONS SHALL BE SAME AS FOR REINFORCED CONCRETE PIPE, SECTION 4020, 2.01A.

PIPE END SECTION DETAILS

DESIGNED: ATR	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
APPRVD: CLR <td></td> <td></td> <td></td> <td></td> <td></td> <td>SANITARY</td>						SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS: PRELIMINARY						



CITY OF LAPORTE INDIANA

HUNTER WOODS

STORM WATER DETAILS

SHEET C-33

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.33

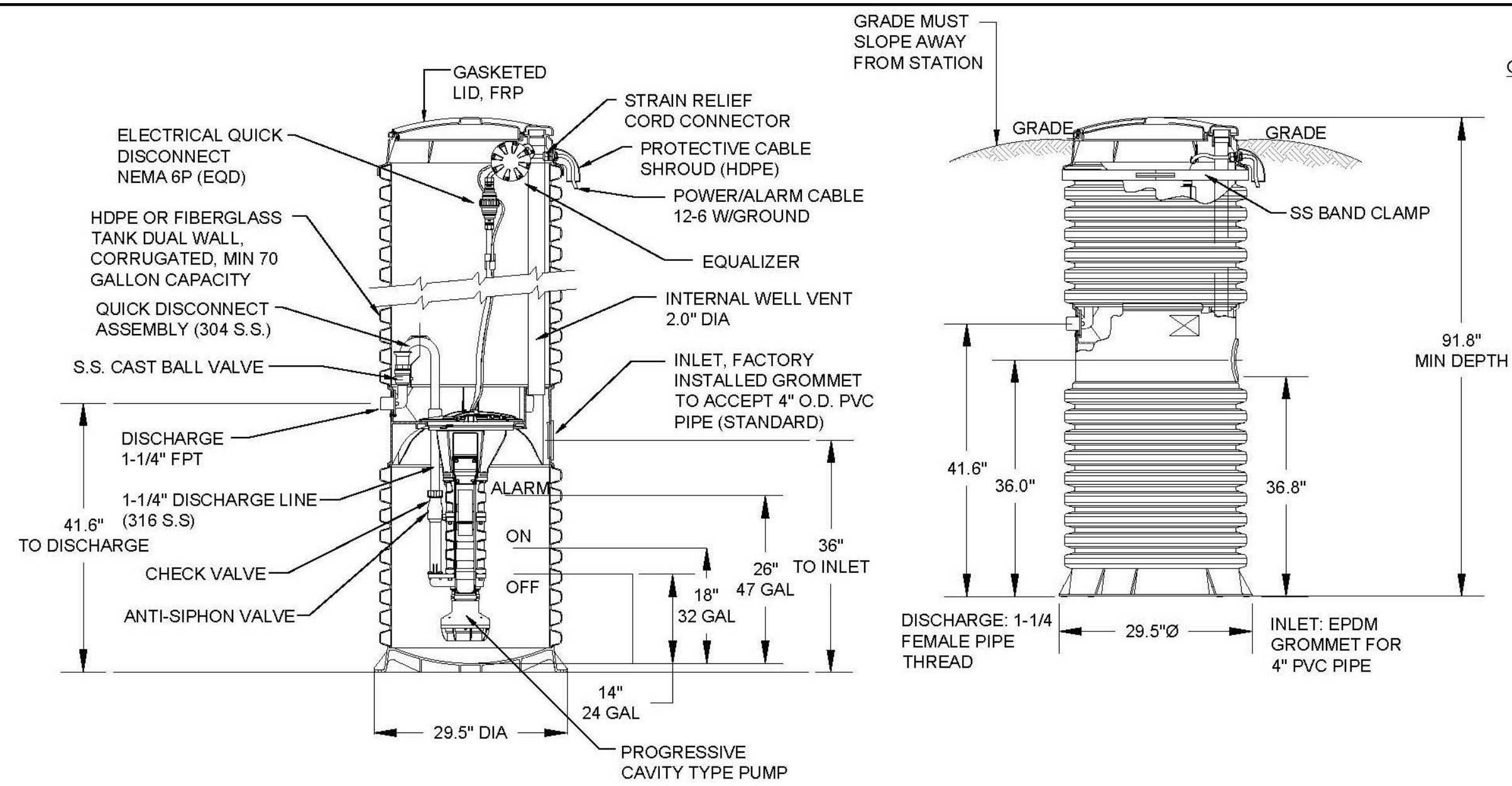
DUNELAND GROUP ENGINEERING & SURVEYING

1498 POPE COURT CHESTERTON, INDIANA 46304

Ph: 219-926-1007

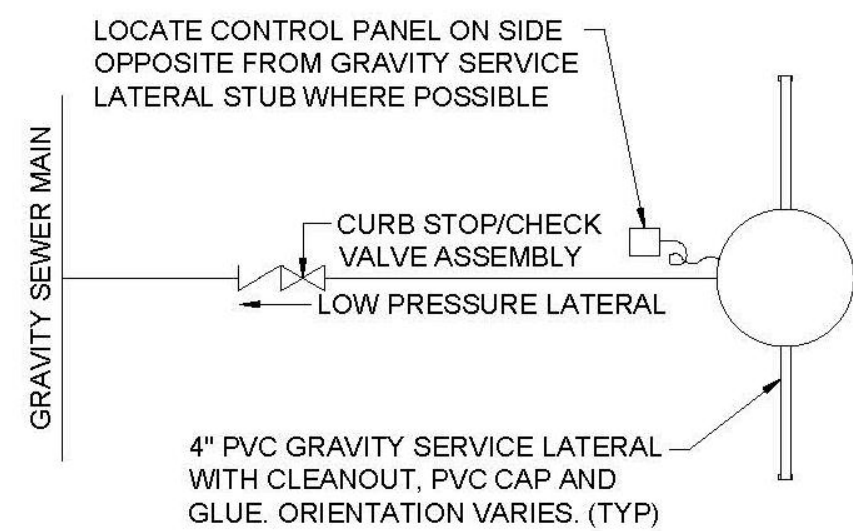
E-MAIL: dgi@dunelandgroup.com





**E-ONE DH071-93 GRINDER STATION, TYPE 1 - PROGRESSING CAVITY SIMPLEX GRINDER PUMP STATION FOR SINGLE RESIDENTIAL CONNECTIONS** 1/18

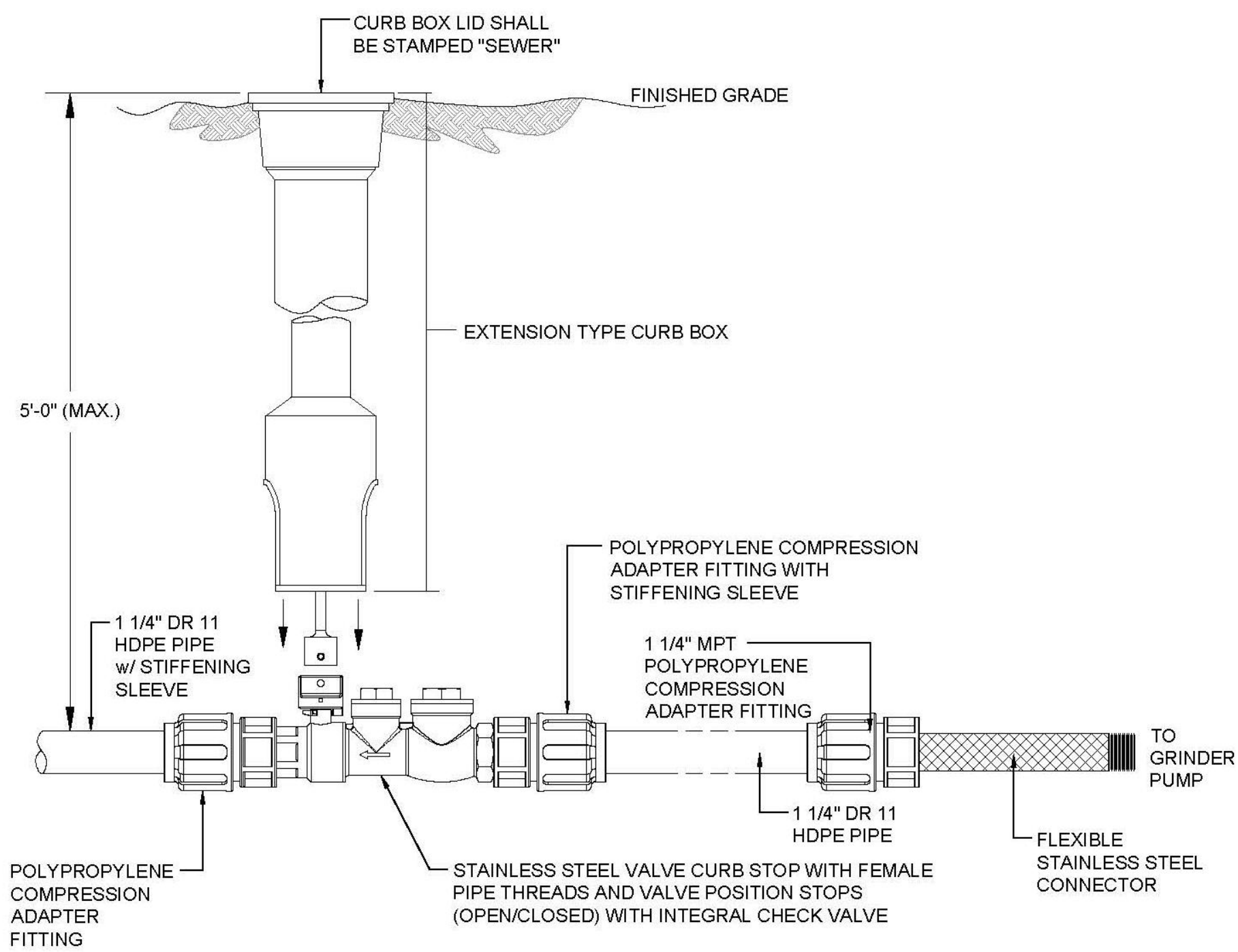
NOT TO SCALE  
CONSULT WITH THE CITY OF LA PORTE UTILITY DEPARTMENT BEFORE ORDERING PUMPS.



**TYPICAL CONTROL PANEL LOCATION**

NOTE:  
GRINDER PUMP GRAVITY SERVICE CONNECTION(S)/PIPE STUB(S) SHALL BE LOCATED IN A MANNER TO MINIMIZE PIPE RUNS AND BENDS FOR FUTURE EXTENSION/TIE-IN TO EXISTING SEPTIC TANK GRAVITY SERVICE LATERAL. CONTRACTOR SHALL COORDINATE WITH GRINDER PUMP STATION MANUFACTURER FOR PROPER LOCATION/ORIENTATION OF LATERAL CONNECTION(S) RELATIVE TO DISCHARGE LOCATION PRIOR TO FABRICATION.

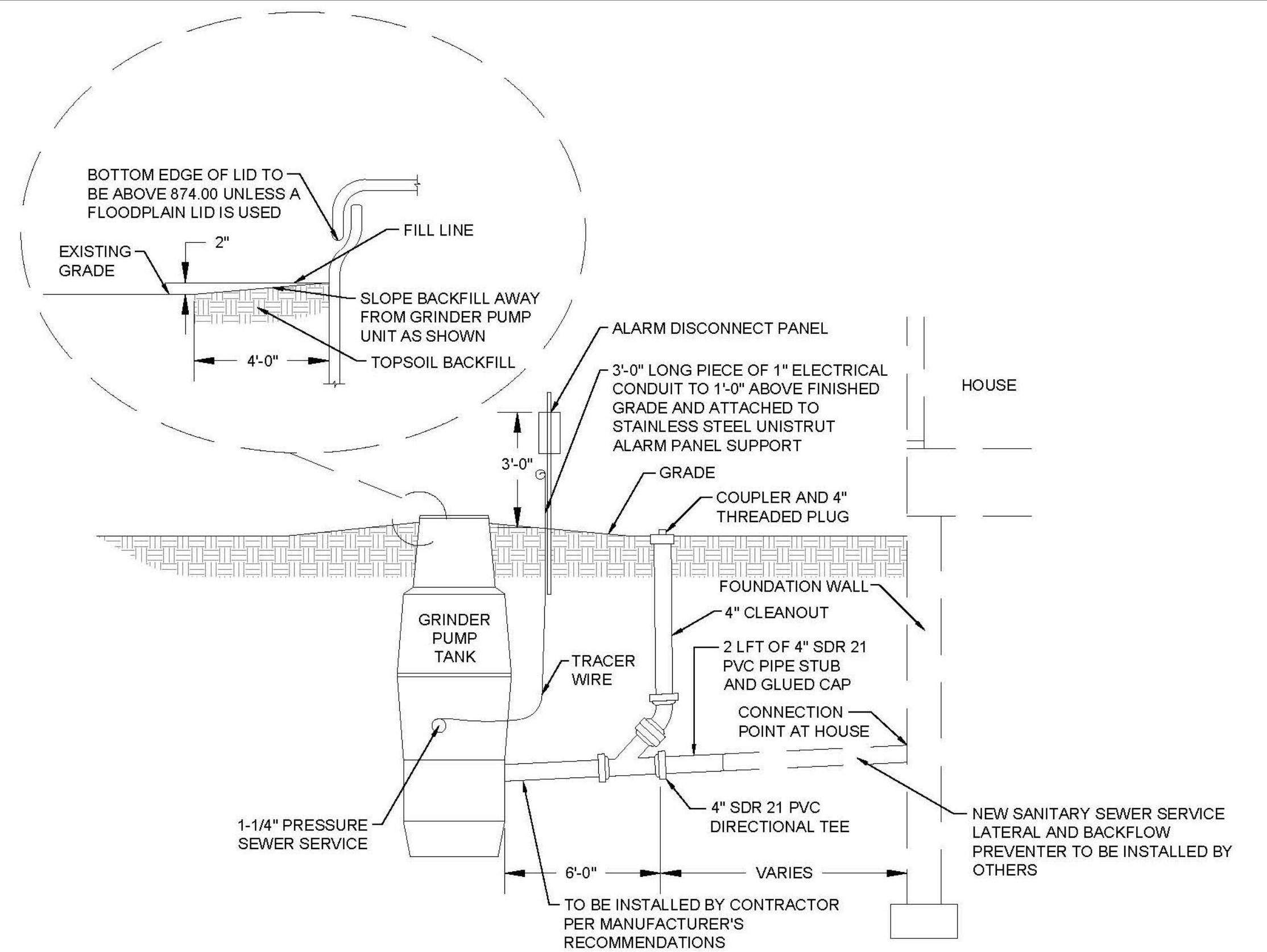
**GENERAL GRINDER PUMP PLAN VIEW** 4/18



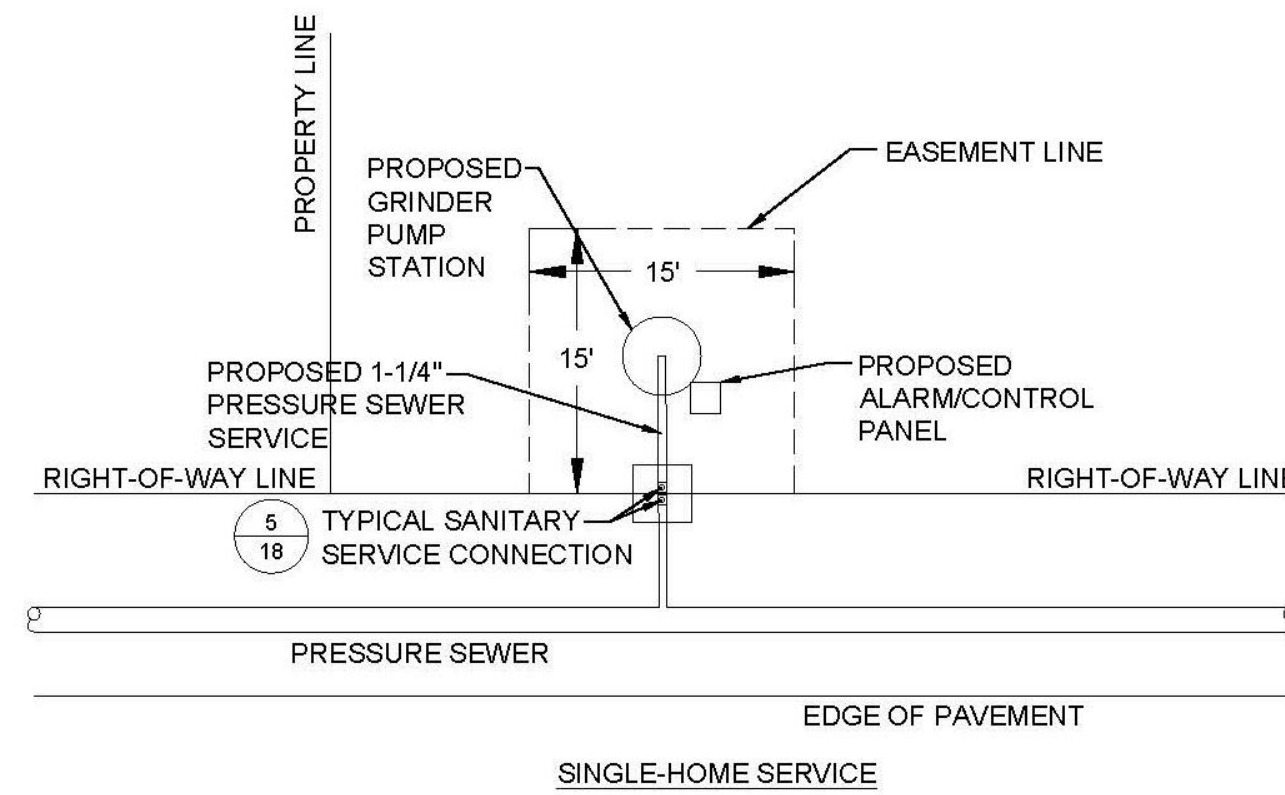
**TYPICAL SANITARY SERVICE CONNECTION** 5/18

**GENERAL GRINDER STATION NOTES:**

1. CONTRACTOR TO INSTALL ANTI-FLOTATION CONCRETE BALLAST PER GRINDER STATION MANUFACTURER'S RECOMMENDATION ON ALL GRINDER STATION TYPES.
2. GRINDER PUMP STATION FIELD ENGINEERING REQUIREMENTS
  - 2.1. AT LEAST FOUR WEEKS PRIOR TO GRINDER PUMP INSTALLATION, PERFORM AND SUBMIT THE FOLLOWING TO THE ENGINEER:
    - 2.1.1. SET SURVEY LATH IN GROUND IDENTIFYING PROPOSED GRINDER PUMP STATION
    - 2.1.2. LOCATE SEWER LATERAL ON PROPERTY AT LOCATION WHERE LATERAL EXITS STRUCTURE
    - 2.1.3. USING SURVEY INSTRUMENT, OBTAIN ELEVATION OF SEWER LATERAL OR LATERALS AND EXISTING GROUND ELEVATION AT PROPOSED GRINDER PUMP LOCATION
    - 2.1.4. RECORD THE FOLLOWING SURVEY DATA IN FIELD BOOK:
      - 2.1.4.1. DATE OF FIELD WORK
      - 2.1.4.2. PROPERTY ADDRESS
      - 2.1.4.3. SKETCH SHOWING LOCATION OF FIELD SHOTS
    - 2.1.5. PERFORM CALCULATION TO SHOW THAT ADEQUATE GRADE EXISTS TO ALL THE PROPERTY OWNERS SERVICE LATERAL FROM HOUSE TO FLOW BY GRAVITY FLOW TO THE PROPOSED GRINDER PUMP LOCATION USING THE STANDARD DEPTH UNIT (TYPE 1, 2, 3 OR 4). USE MINIMUM SLOPE OF 1/4 INCH PER FOOT (2%) FOR CALCULATIONS. CALCULATIONS MUST BE SUBMITTED AT LEAST THREE WEEKS PRIOR TO THE PROPOSED GRINDER STATION INSTALLATION
    - 2.1.6. IF PROPOSED GRINDER LOCATION CANNOT BE CONNECTED BY GRAVITY FLOW USING MINIMUM SLOPE, NOTIFY ENGINEER. ENGINEER WILL THEN EVALUATE AND ISSUE A WORK DIRECTIVE TO EITHER RELOCATE THE GRINDER STATION TO A NEW LOCATION OR DIRECT CONTRACTOR TO INSTALL THE GRINDER STATION WITH A GRINDER STATION EXTENSION KIT
      - 2.1.6.1. SEE MANUFACTURER'S INSTALLATION DETAILS FOR DETAILS ON THE EXTENSION KITS



**TYPICAL GRINDER STATION ASSEMBLY INSTALLATION** 2/18



**TYPICAL GRINDER STATION EASEMENT** 3/18

**ENVIRONMENTAL ONE LOW PRESSURE SANITARY SEWER NOTES:**

1. LOT 35-42 SHALL HAVE AN INDIVIDUAL EXTERIOR PUMP WITH AN E-ONE STATION WITH 5' OF COVER OVER THE LATERAL.
2. EACH STATION SHALL BE EQUIPPED WITH A \_\_\_\_\_ MODEL PUMP.
3. ALL LOW PRESSURE SANITARY SEWER LINES SHALL BE HDPE DR 11.
4. CONTRACTOR SHALL USE A FLEXIBLE BOOT SEAL, KOR-N-SEAL, CAST-IN-PLACE DURA-SEAL GASKET, OR AN APPROVED EQUAL. PROVIDE 24 HOURS NOTICE FOR CORE DRILLING MANHOLES, CITY OF LA PORTE INSPECTOR MUST BE ON-SITE.
5. INSTALL SANITARY LATERAL ASSEMBLY AT THE ROW FOR EACH LOT.
6. FOLLOW CITY OF LA PORTE STANDARDS.
7. CONSULT WITH THE CITY OF LA PORTE UTILITY DEPARTMENT BEFORE ORDERING PUMPS.

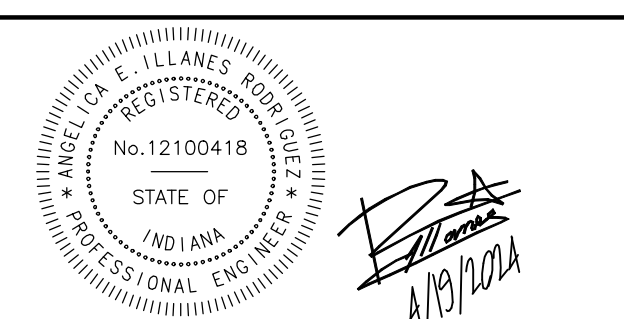
EXCEPTION:  
A POTENTIAL GRAVITY SYSTEM FOR LOTS 35 AND 40-42 IS PENDING BASED ON THE CITY DESIGN ELEVATIONS. USE E-ONE IF NOT FEASIBLE.



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1498 POPE COURT  
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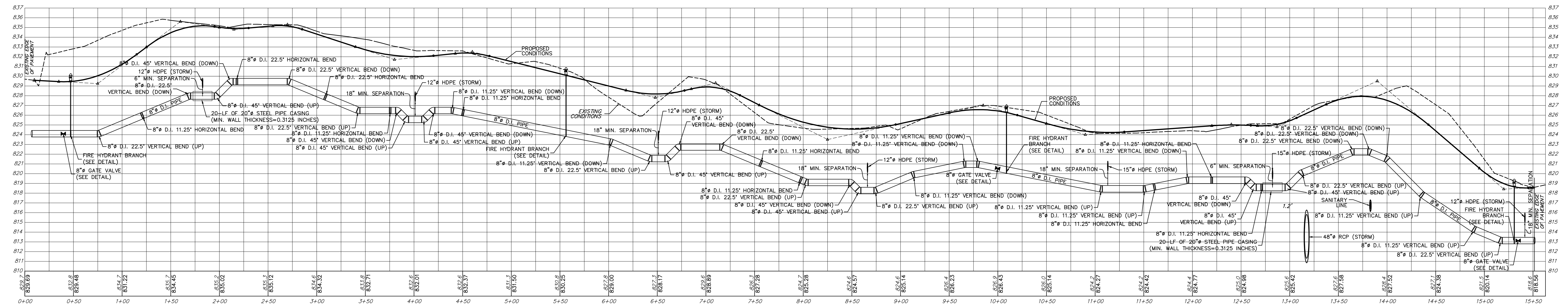
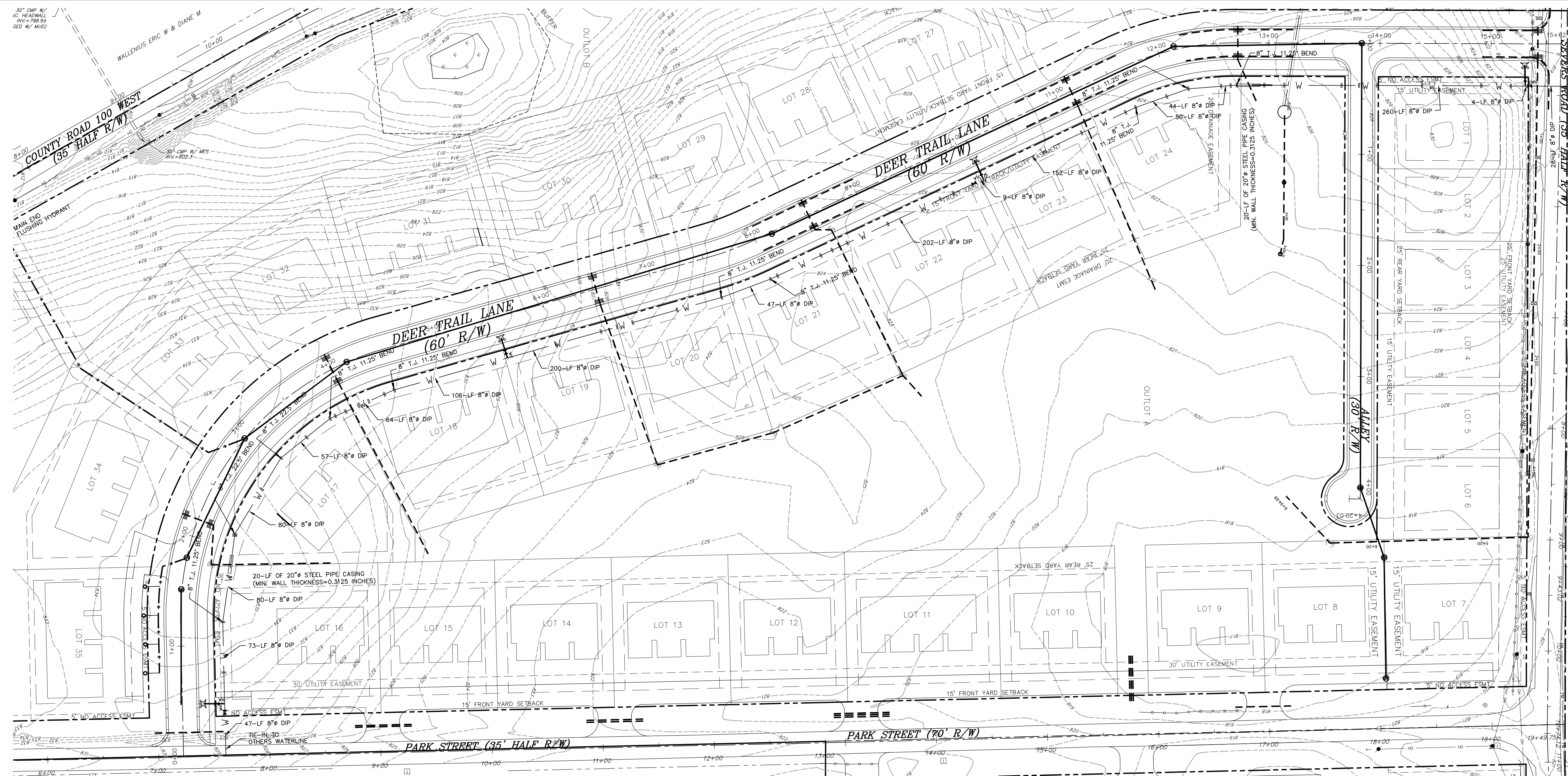


DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPR'VD: CLR	Δ				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE	INDIANA	SHEET C-34
<b>HUNTER WOODS</b>		PROJECT 3139
<b>LOW-PRESSURE SYSTEM DETAILS</b>		DRAWING NUMBER 3139.000.34

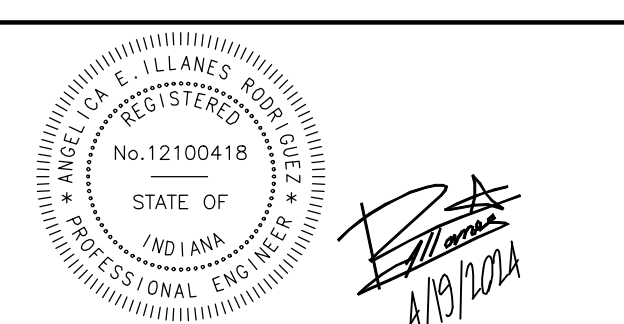




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 CHESTERTON, INDIANA 46304  
 Ph: 219-926-1007  
 E-MAIL: dgi@dunelandgroup.com



DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=50'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

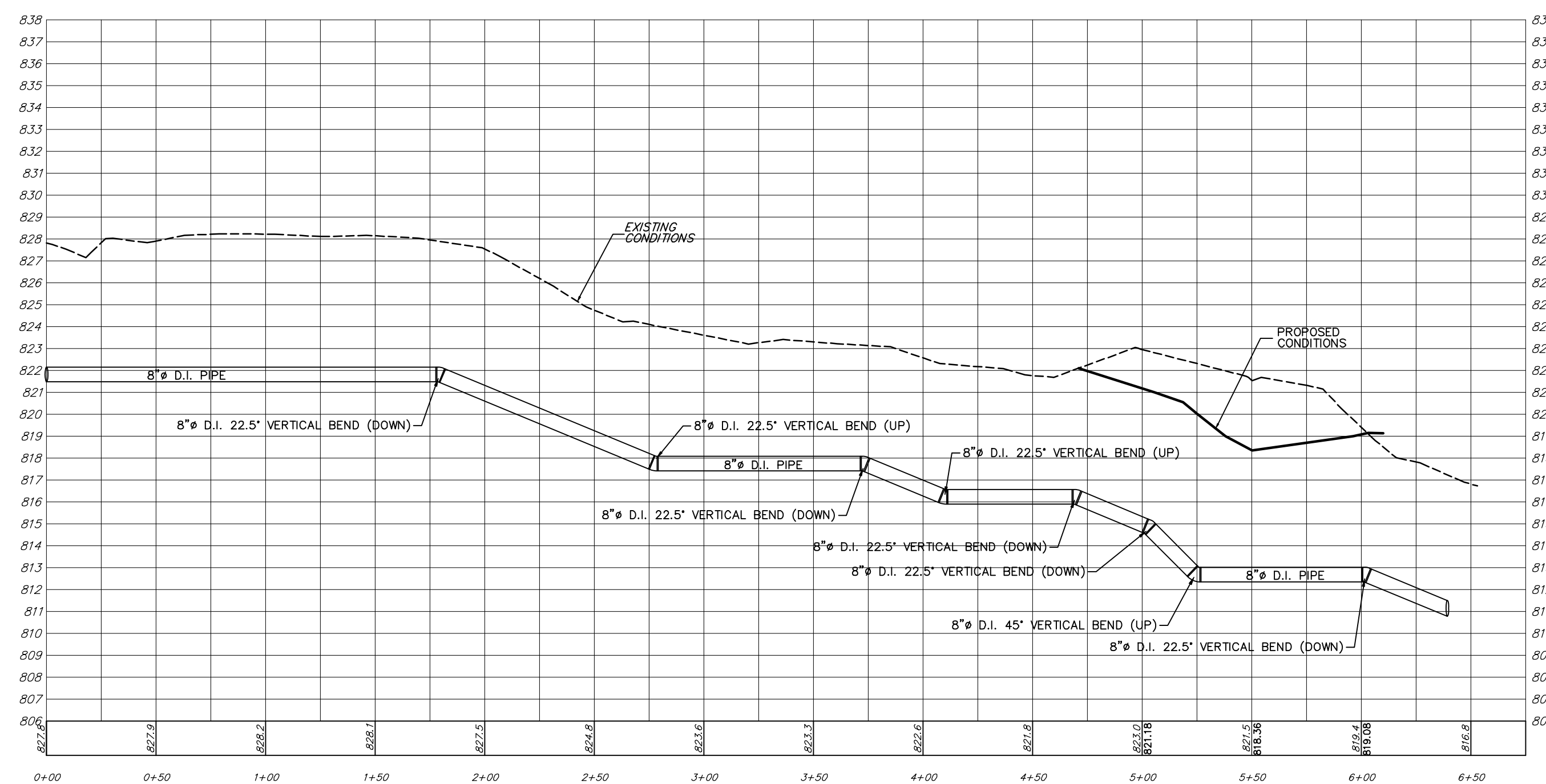
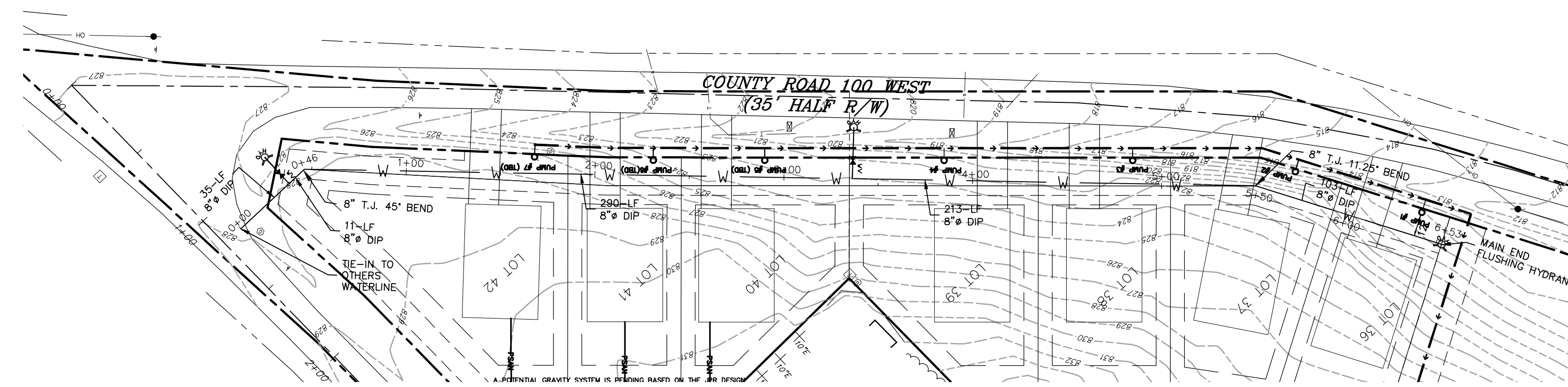
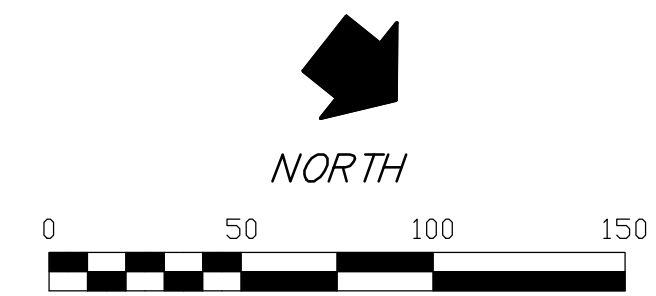
**HUNTER WOODS**

**WATER PLAN/ PROFILE**

SHEET C-35

PROJECT 3139  
 NUMBER  
 DRAWING NUMBER  
 3139.000.35



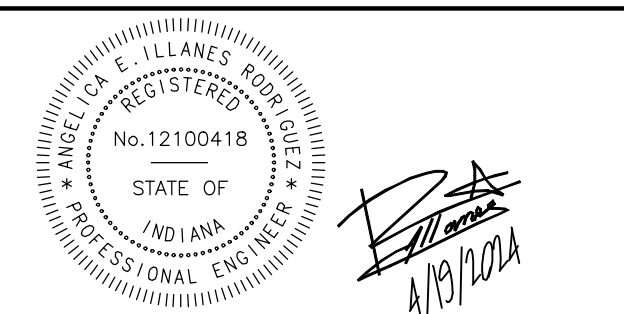


# MIDDLE ROAD — WATER

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: [dgi@dunelandgroup.com](mailto:dgi@dunelandgroup.com)



NO.	REVISION	BY	DATE
1	DESIGNED: <i>AIR</i> CHK'D: <i>SCC</i>		
2	DATE: 4/19/2024 APPR'D: <i>CLR</i>		
3	HORIZ. SCALE: 1"=50'		
4	VERT. SCALE: N/A		
5	PROJECT STATUS: PRELIMINARY		



CITY OF LA PORTE	INDIANA	SHEET <i>C-36</i>
<b>HUNTER WOODS</b>		PROJECT NUMBER 3139
<b>COUNTY ROAD 100 WEST WATER PLAN/ PROFILE</b>		DRAWING NUMBER 3139.000.36

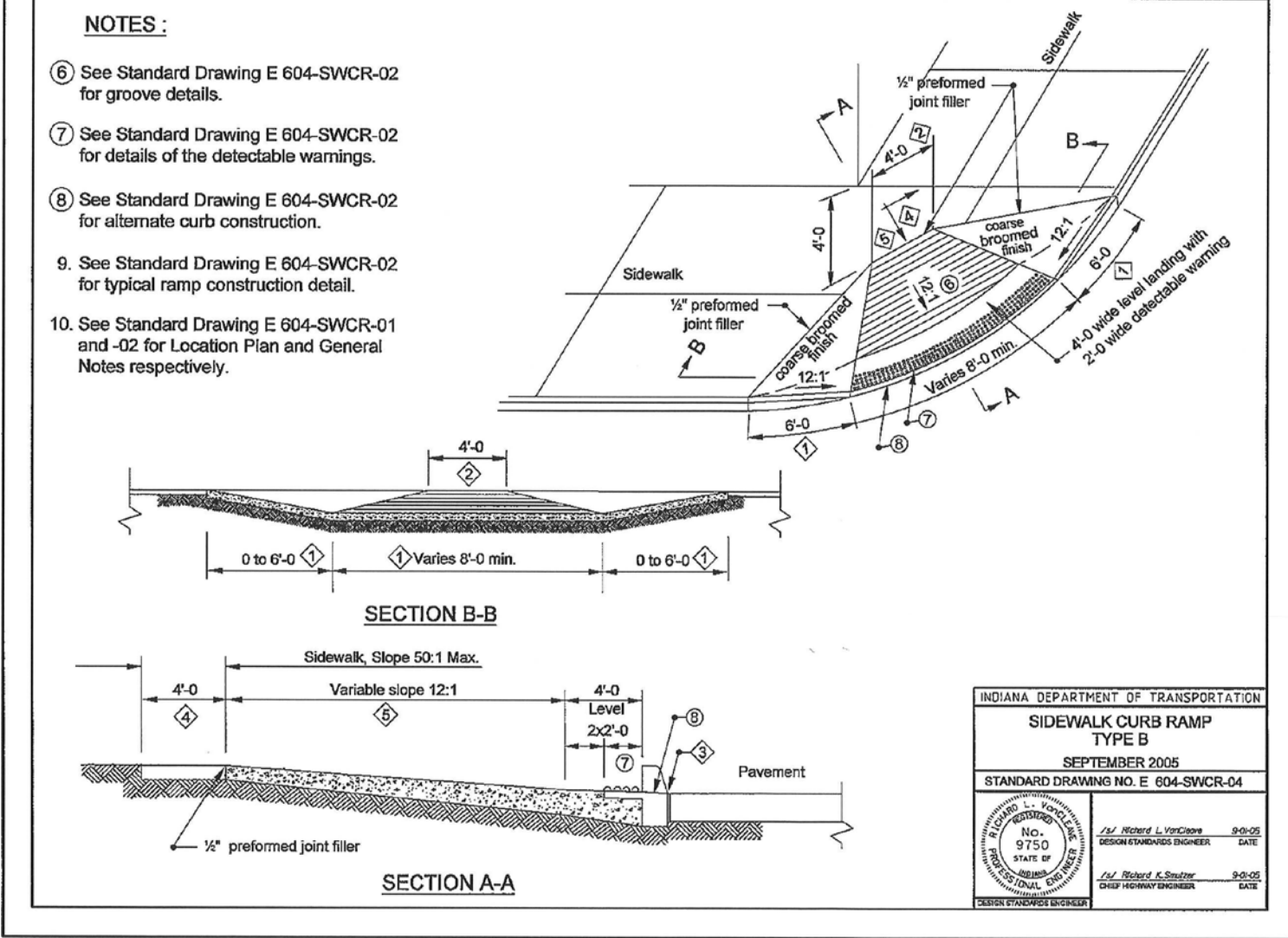






**NOTES:**

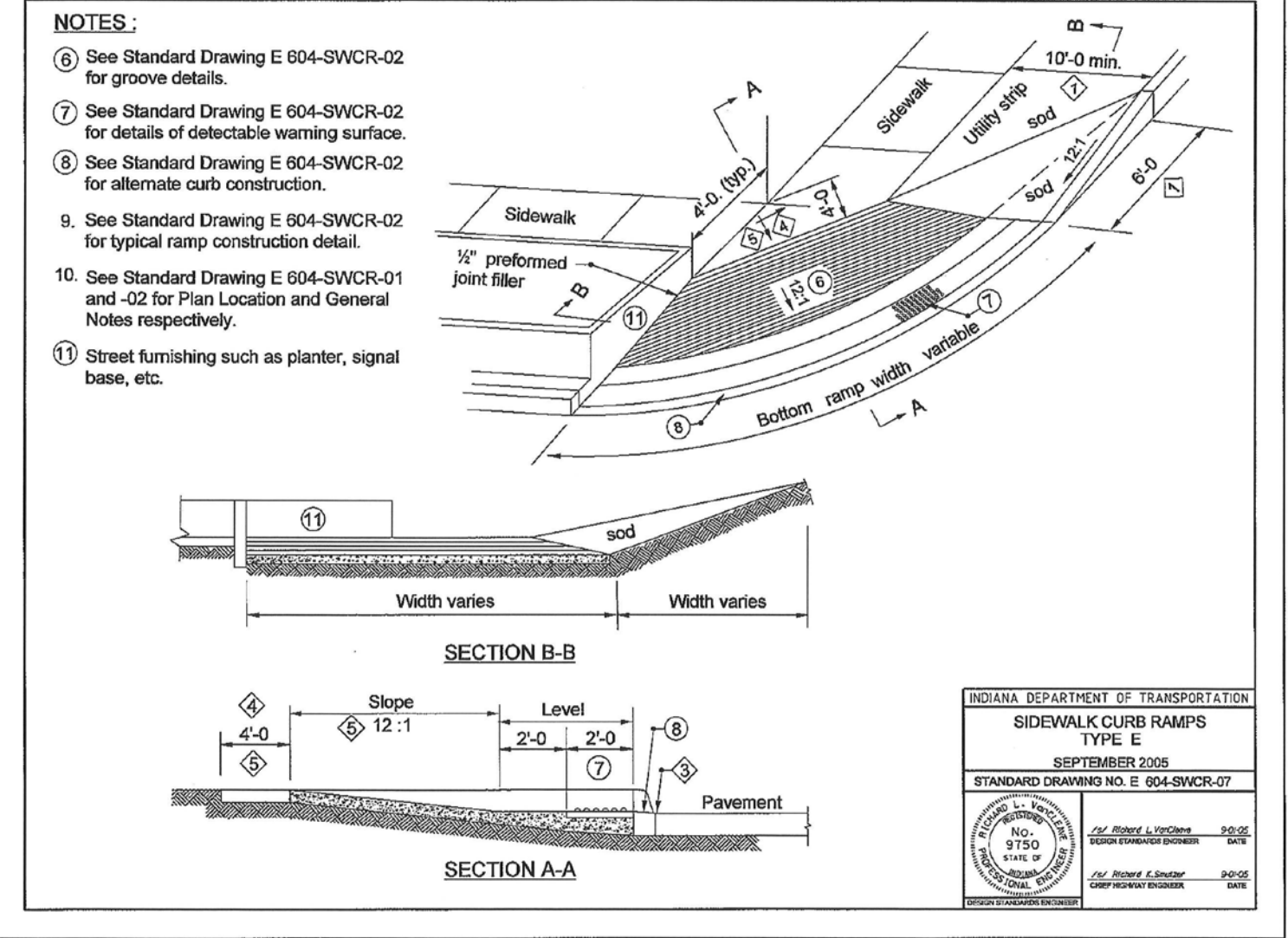
- ⑥ See Standard Drawing E 604-SWCR-02 for groove details.
- ⑦ See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
- ⑧ See Standard Drawing E 604-SWCR-02 for alternate curb construction.
- ⑨ See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
- ⑩ See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.



\* ALL RAMPS WILL HAVE TRUNCATED DOMES MANUFACTURED BY NEENAH OR APPROVED EQUAL.

**NOTES:**

- ⑥ See Standard Drawing E 604-SWCR-02 for groove details.
- ⑦ See Standard Drawing E 604-SWCR-02 for details of detectable warning surface.
- ⑧ See Standard Drawing E 604-SWCR-02 for alternate curb construction.
- ⑨ See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
- ⑩ See Standard Drawing E 604-SWCR-01 and -02 for Plan Location and General Notes respectively.
- ⑪ Street furnishing such as planter, signal base, etc.



\* ALL RAMPS WILL HAVE TRUNCATED DOMES MANUFACTURED BY NEENAH OR APPROVED EQUAL.

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DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPRV'D: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						

CITY OF LA PORTE INDIANA

**HUNTER WOODS**

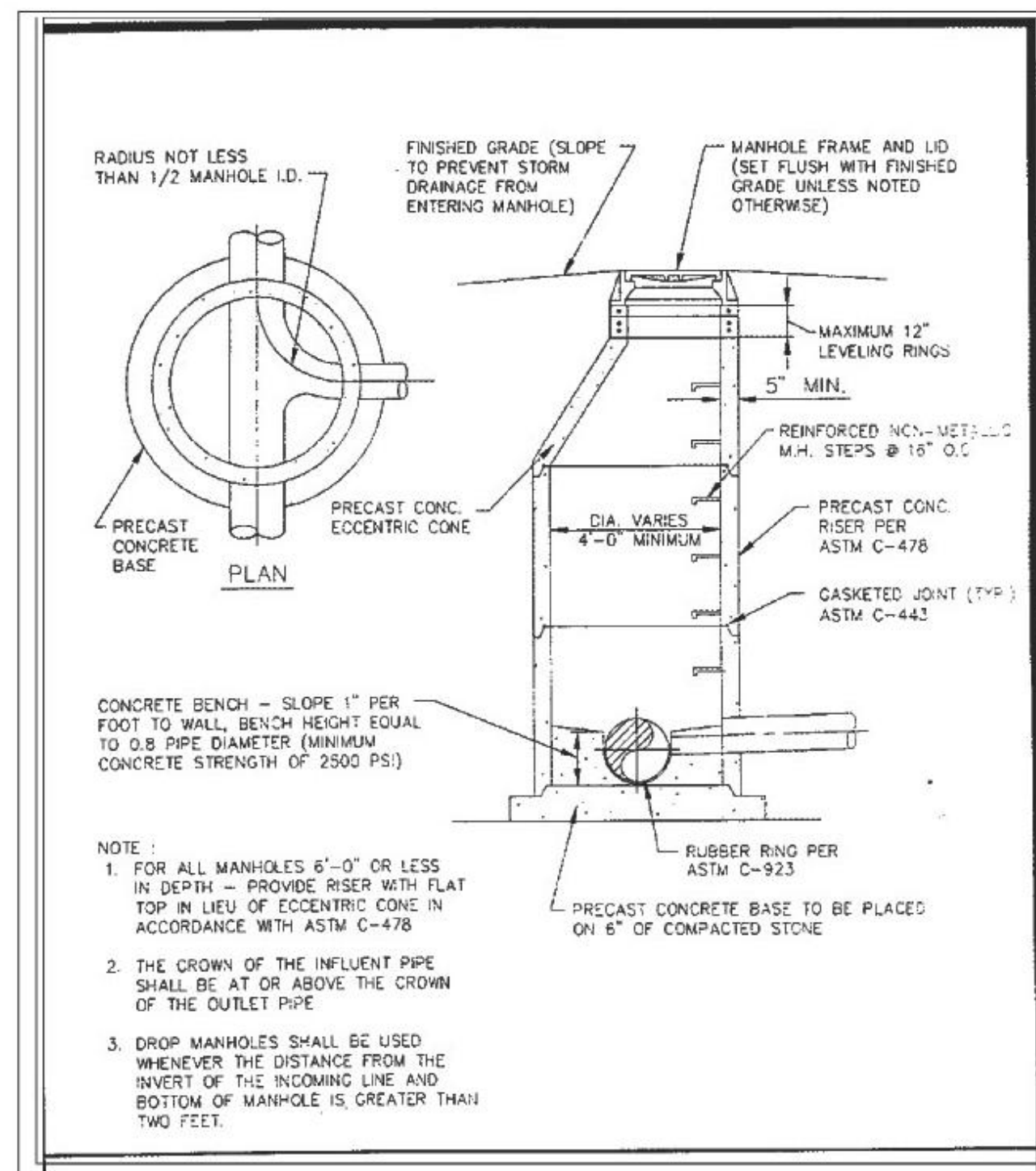
**CURB RAMP DETAILS**

SHEET C-38

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.38

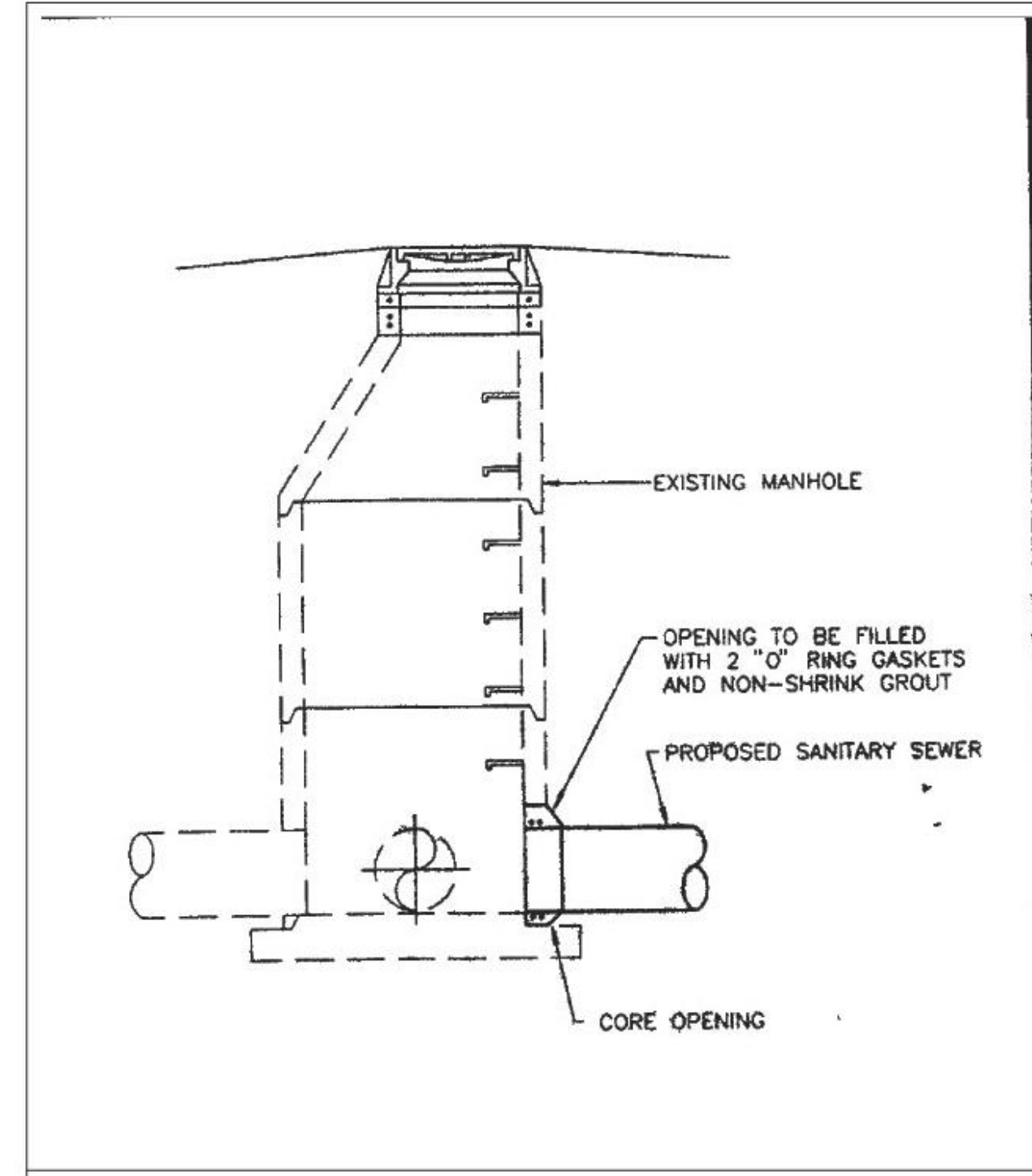




STANDARD SANITARY MANHOLE DETAIL

NO.	REVISION	DATE	FIGURE
			5-1

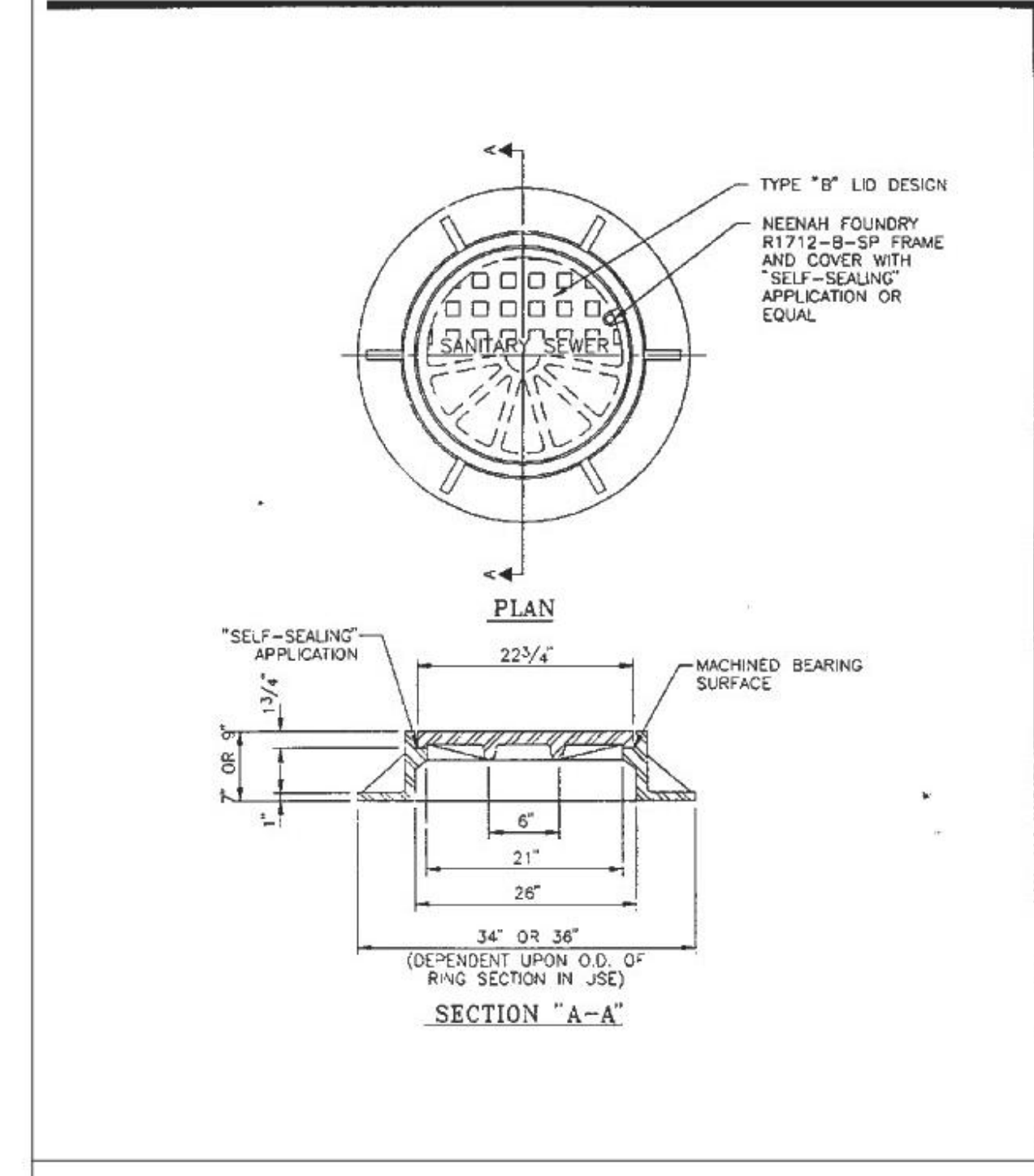
CITY OF LA PORTE INDIANA



TYPICAL EXISTING MANHOLE ENTRY DETAIL

NO.	REVISION	DATE	FIGURE
			5-4

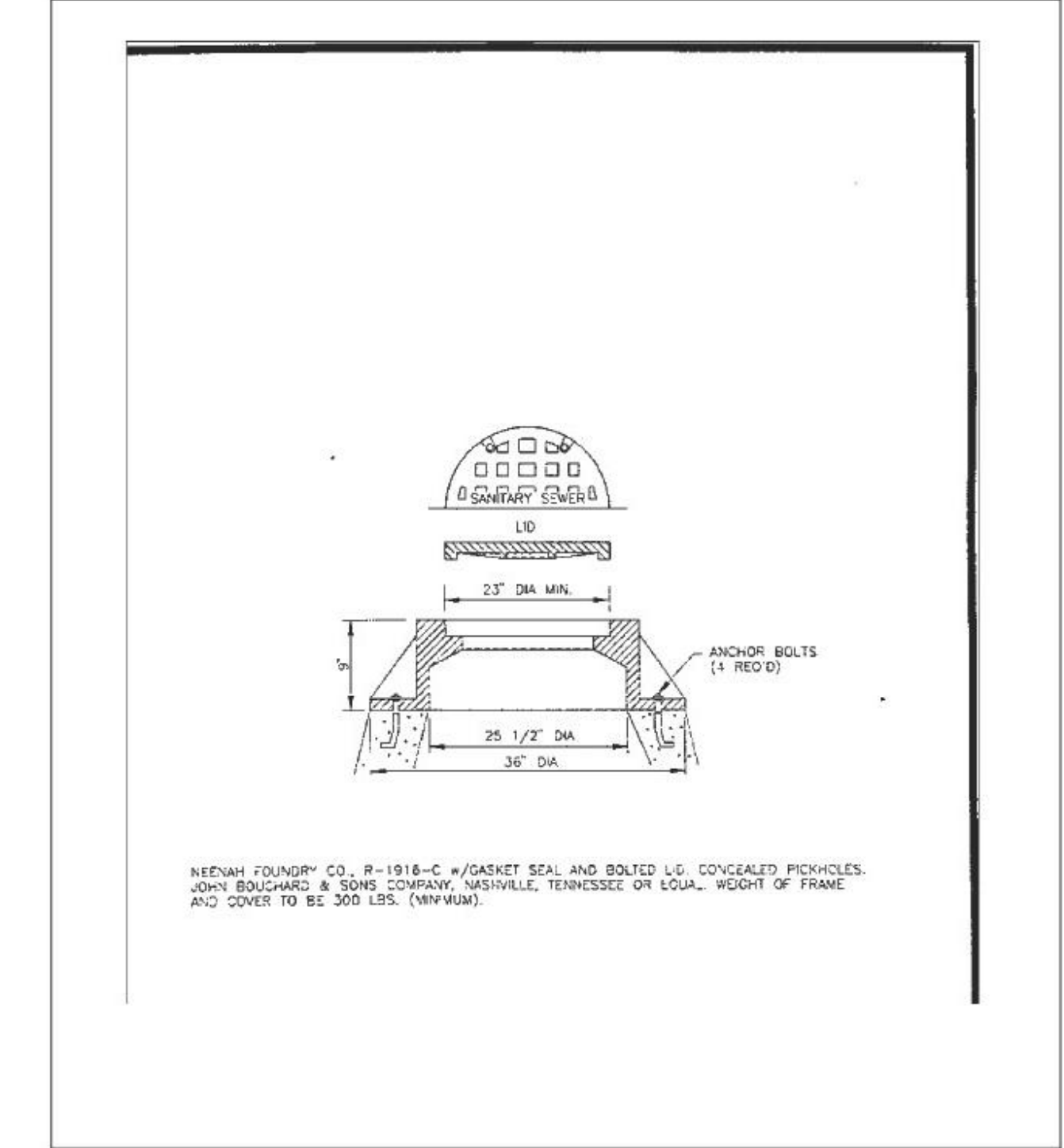
CITY OF LA PORTE INDIANA



SANITARY SEWER MANHOLE FRAME AND COVER

NO.	REVISION	DATE	FIGURE
			5-6

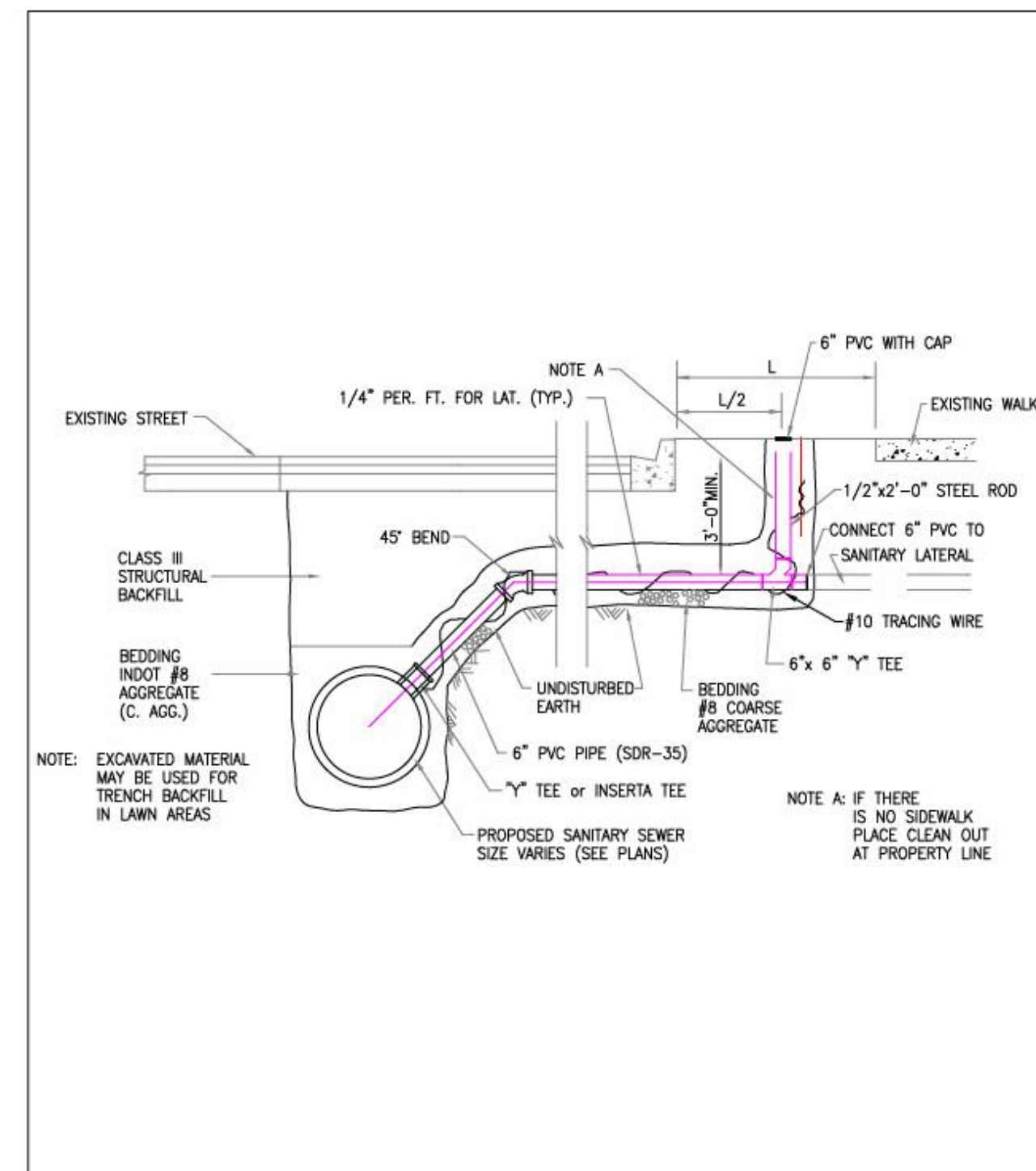
CITY OF LA PORTE INDIANA



WATERPROOF SANITARY MANHOLE FRAME AND BOLTED LID

NO.	REVISION	DATE	FIGURE
			5-7

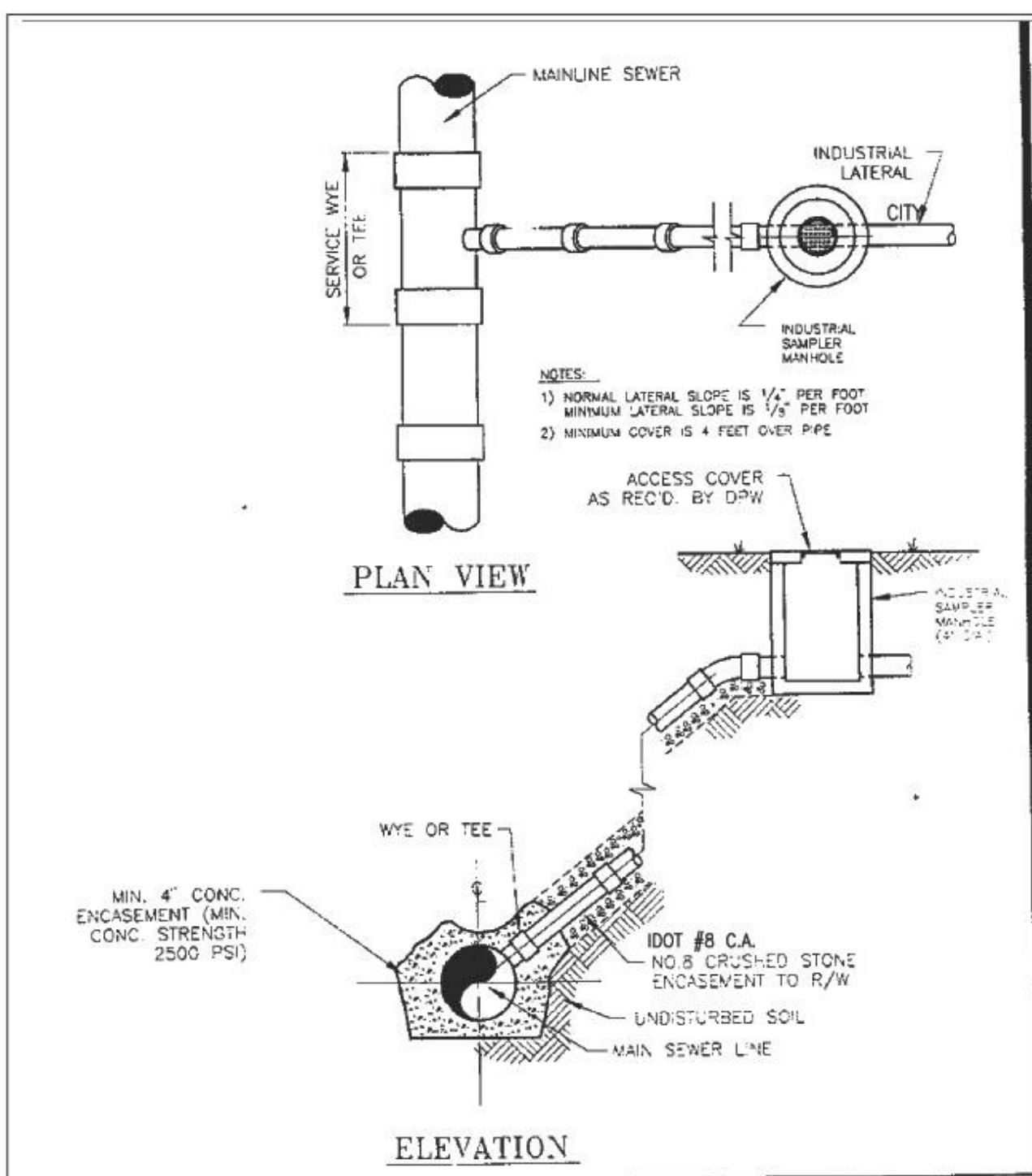
CITY OF LA PORTE INDIANA



SANITARY LATERAL DETAIL

NO.	REVISION	DATE	FIGURE
			5-8

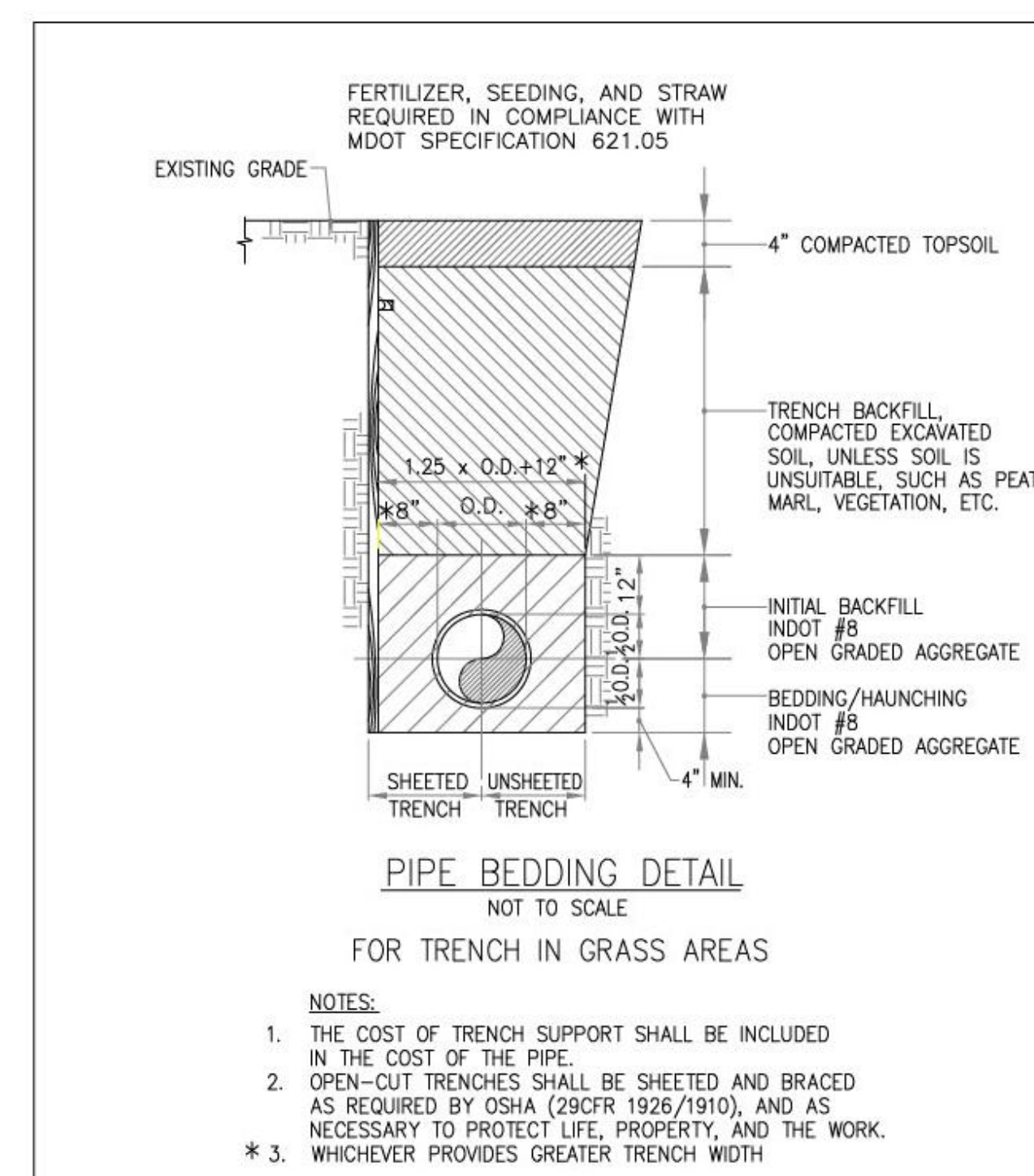
CITY OF LA PORTE INDIANA



INDUSTRIAL SEWER SERVICE CONNECTION

NO.	REVISION	DATE	FIGURE
			5-9

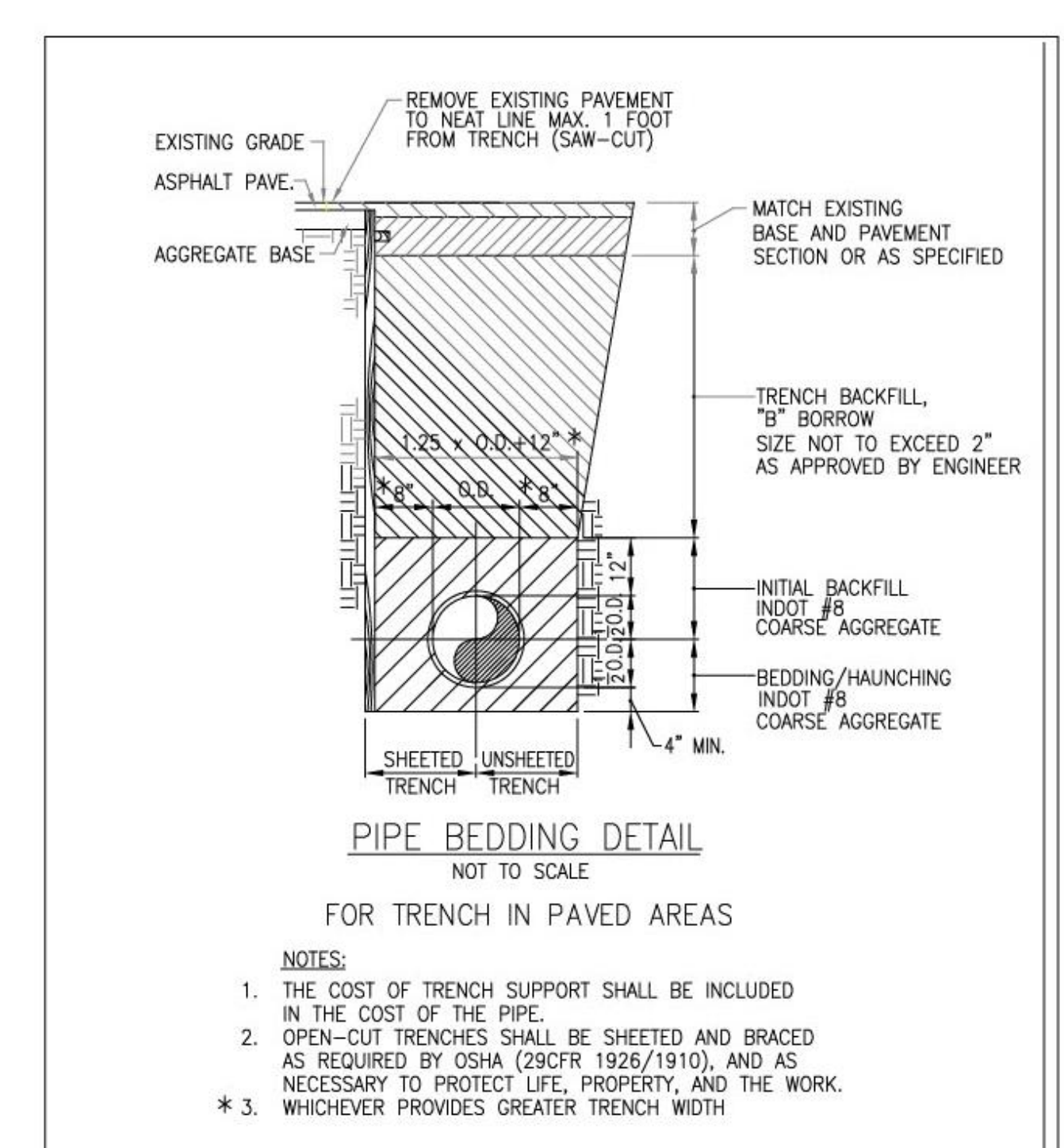
CITY OF LA PORTE INDIANA



FIRST CLASS PIPE LAYING METHOD FOR CONDUITS IN GRASSED AREAS

NO.	REVISION	DATE	FIGURE
			5-10

CITY OF LA PORTE INDIANA

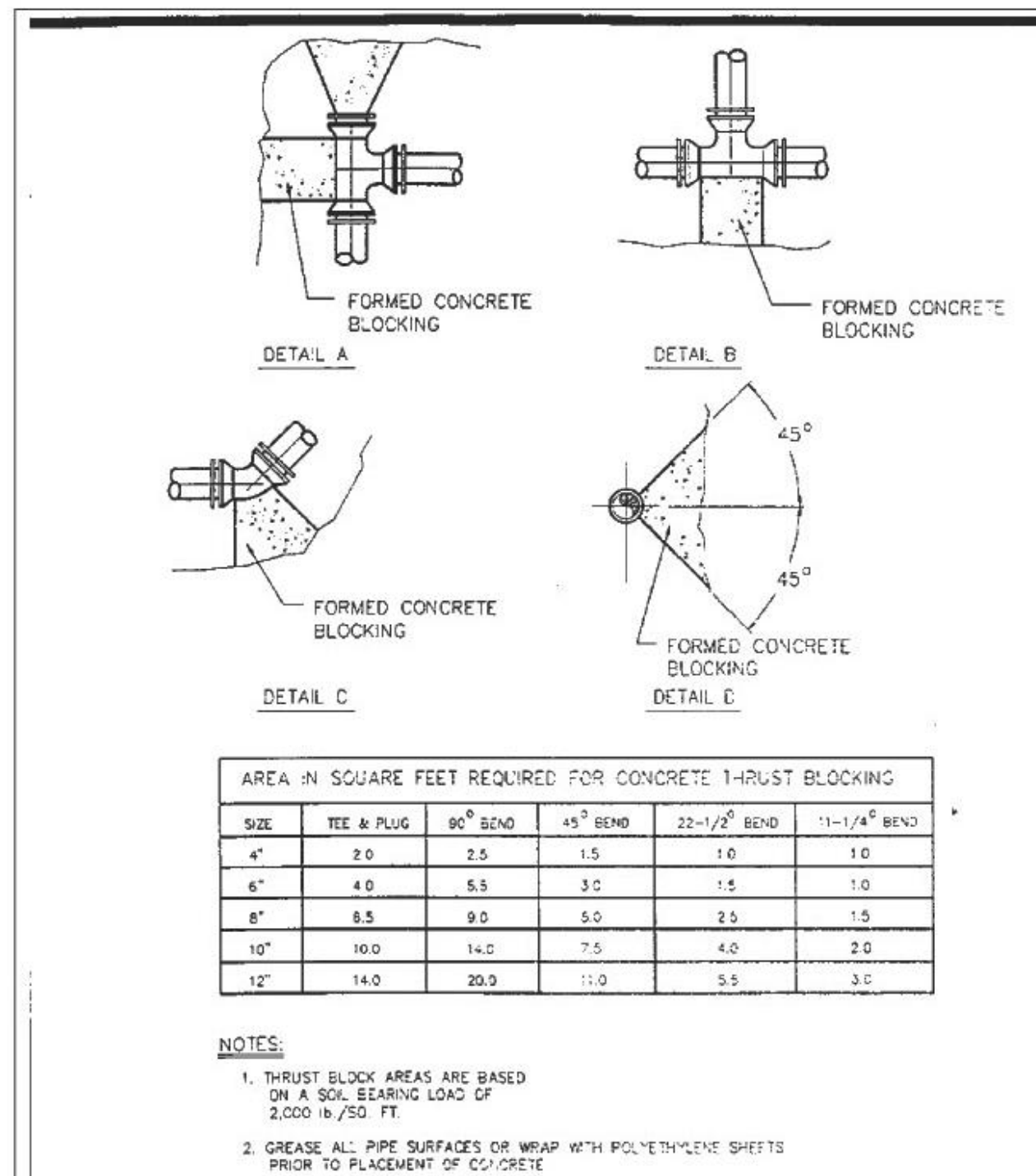


FIRST CLASS PIPE LAYING METHOD FOR CONDUITS IN PAVED AREAS

NO.	REVISION	DATE	FIGURE
			5-11

CITY OF LA PORTE INDIANA

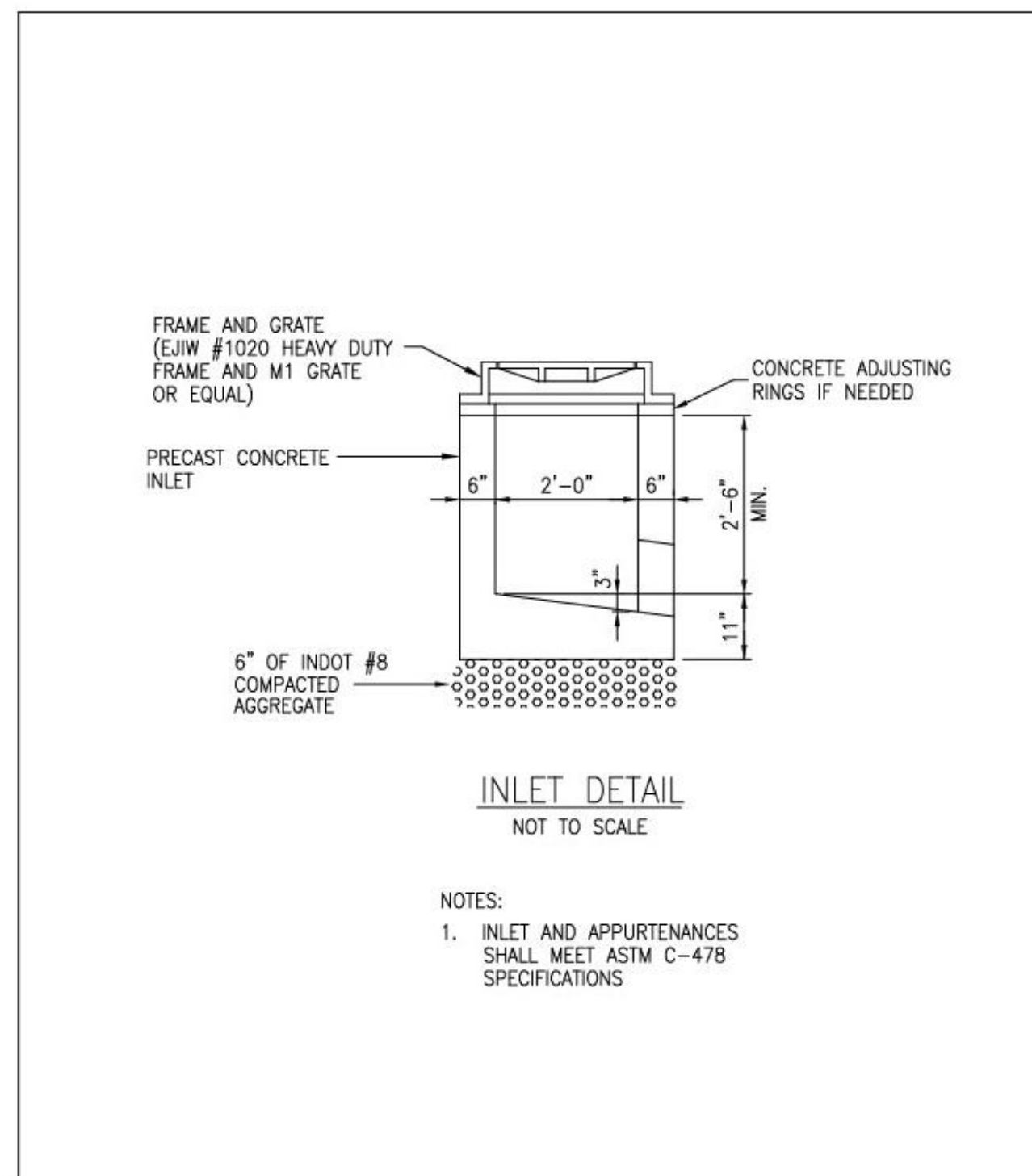




THRUST BLOCKING DETAILS FOR PRESSURE MAIN

NO.	REVISION	DATE	FIGURE
			5-13

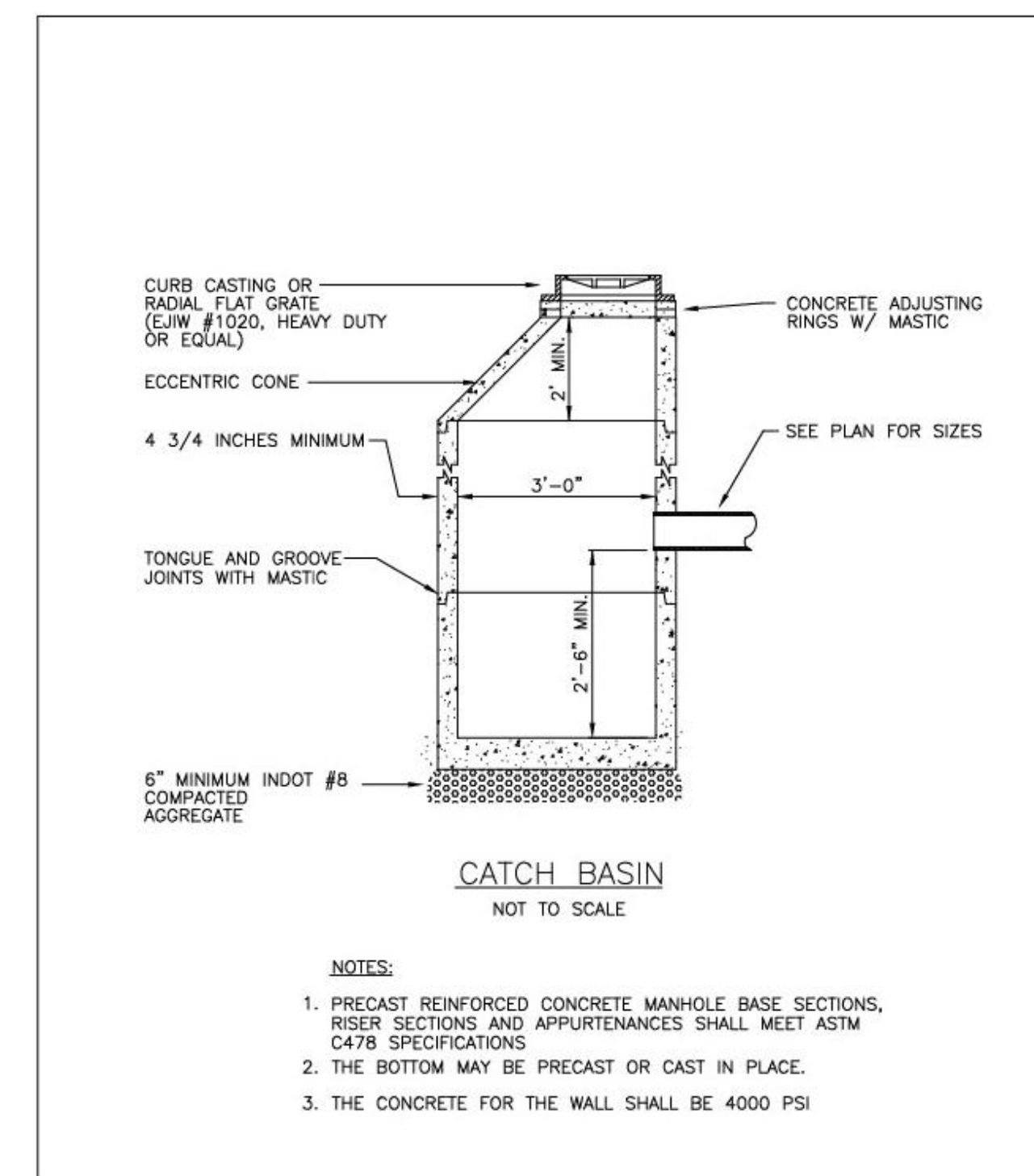
CITY of LA PORTE INDIANA



STORM SEWER INLET AND CATCHBASIN DETAILS

NO.	REVISION	DATE	FIGURE
			5-21

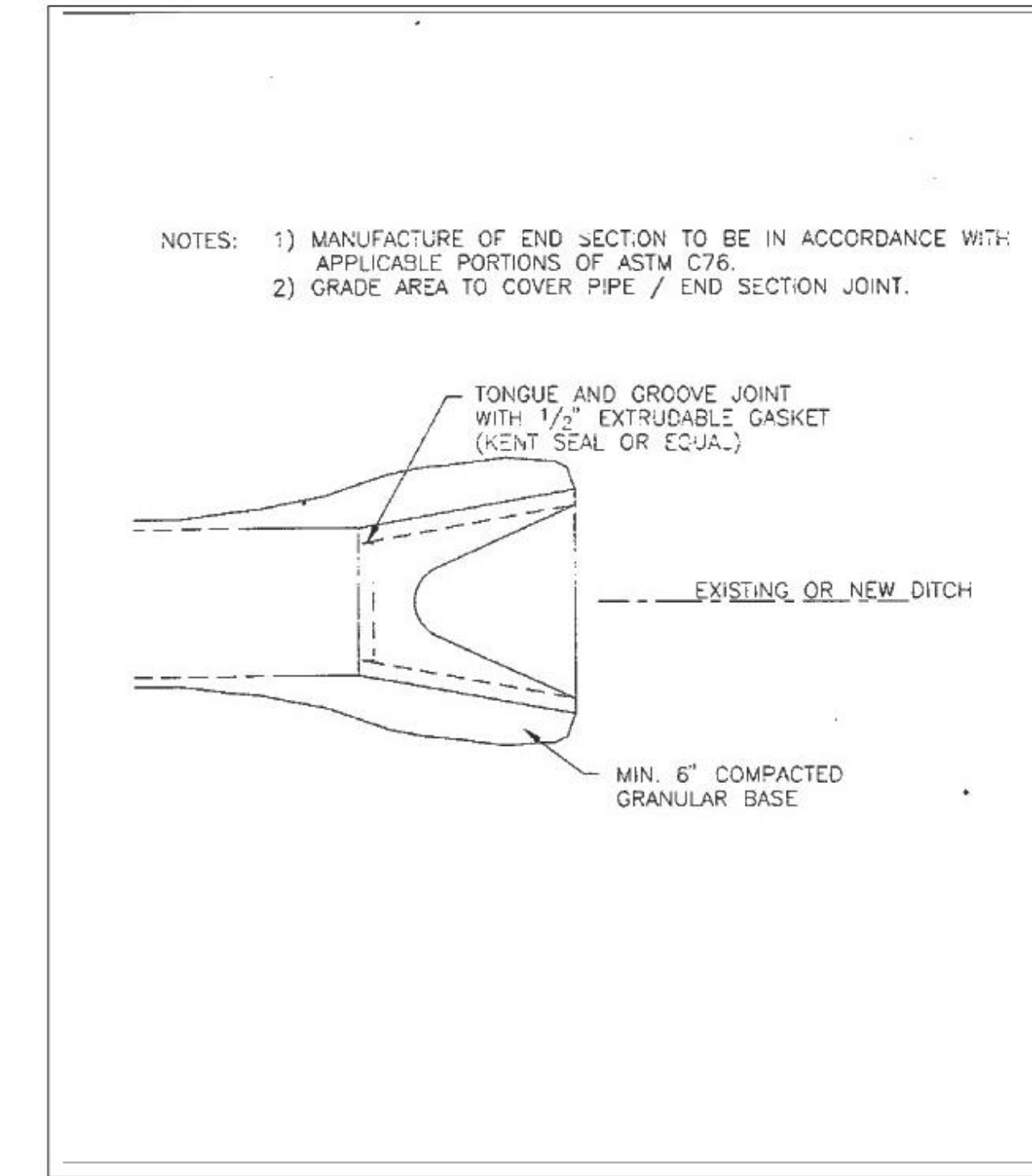
CITY of LA PORTE INDIANA



STORM SEWER CATCHBASIN DETAILS

NO.	REVISION	DATE	FIGURE
			5-22

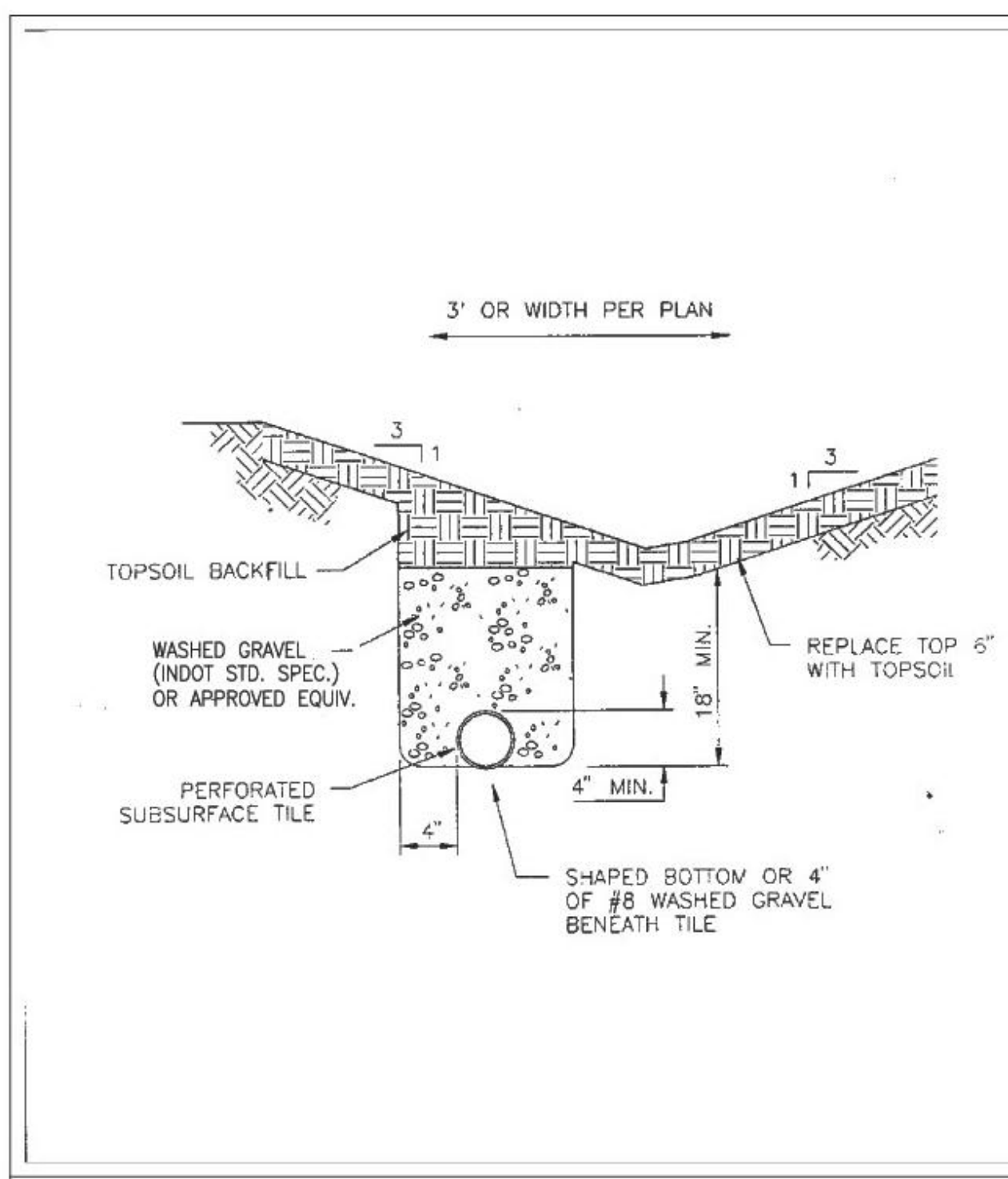
CITY of LA PORTE INDIANA



CULVERT PIPE CONCRETE END SECTION DETAIL

NO.	REVISION	DATE	FIGURE
			5-25

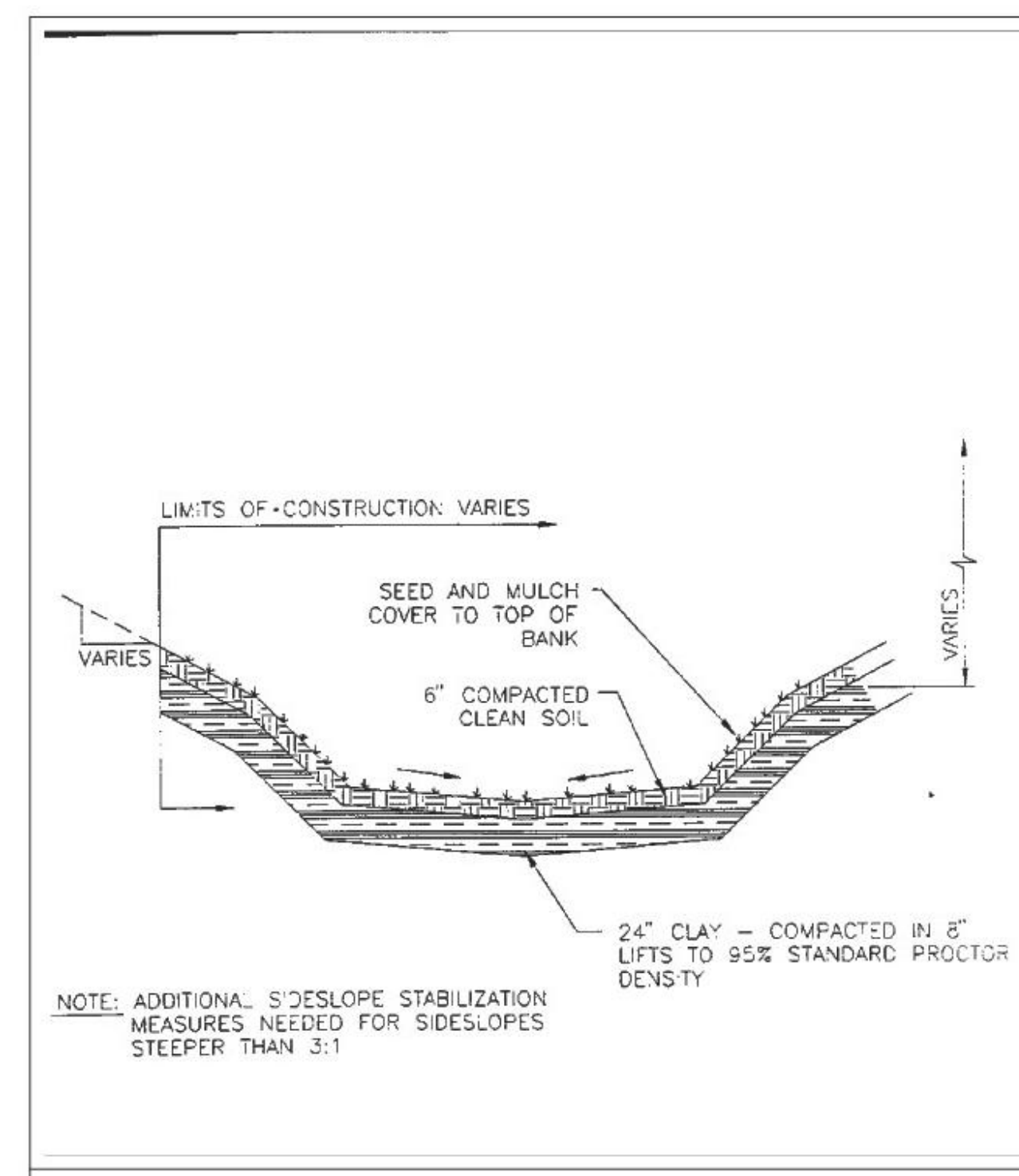
CITY of LA PORTE INDIANA



DITCH/SWALE UNDERDRAIN DETAIL

NO.	REVISION	DATE	FIGURE
			5-26

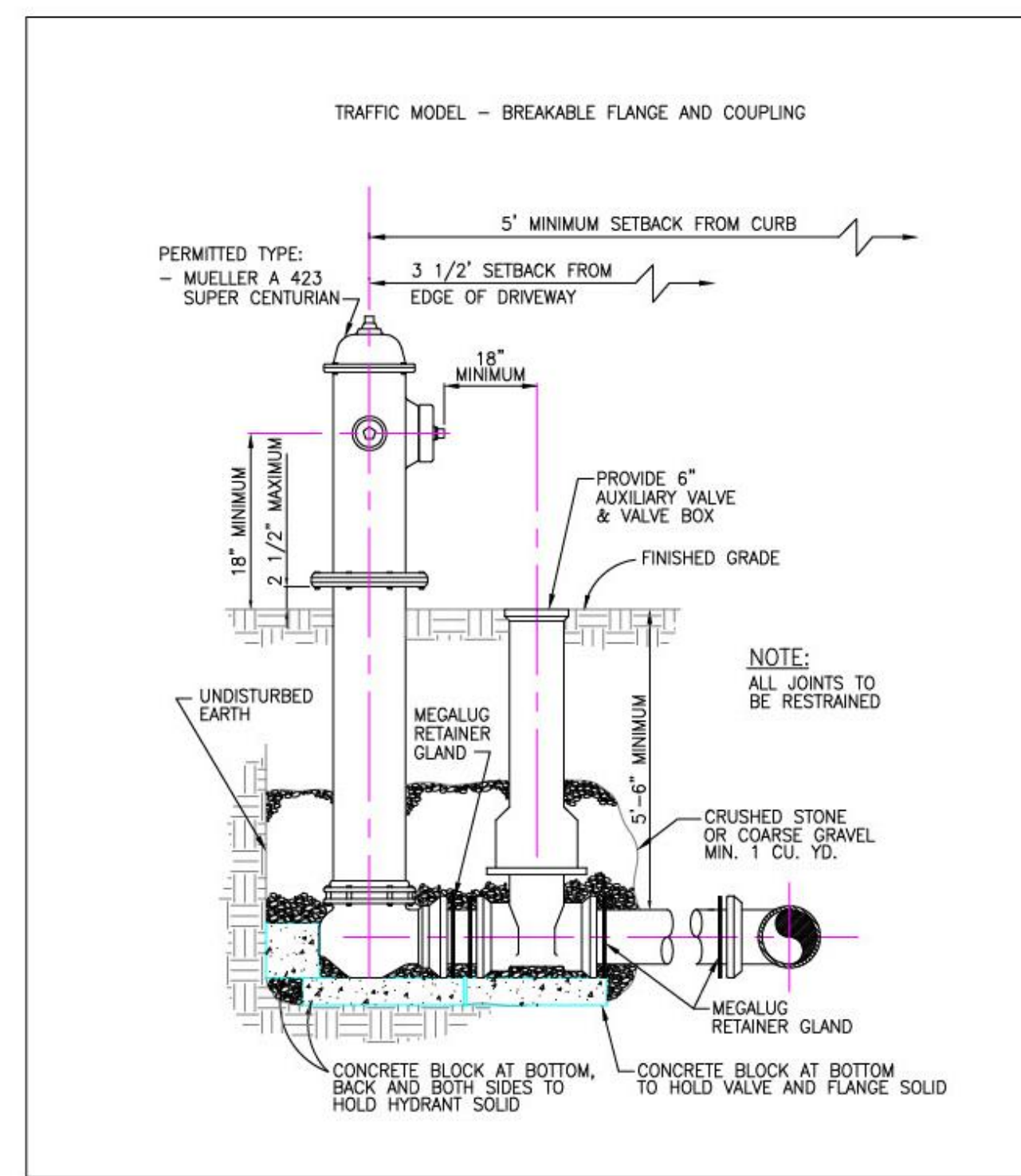
CITY of LA PORTE INDIANA



STREAM/DITCH RESTORATION

NO.	REVISION	DATE	FIGURE
			5-27

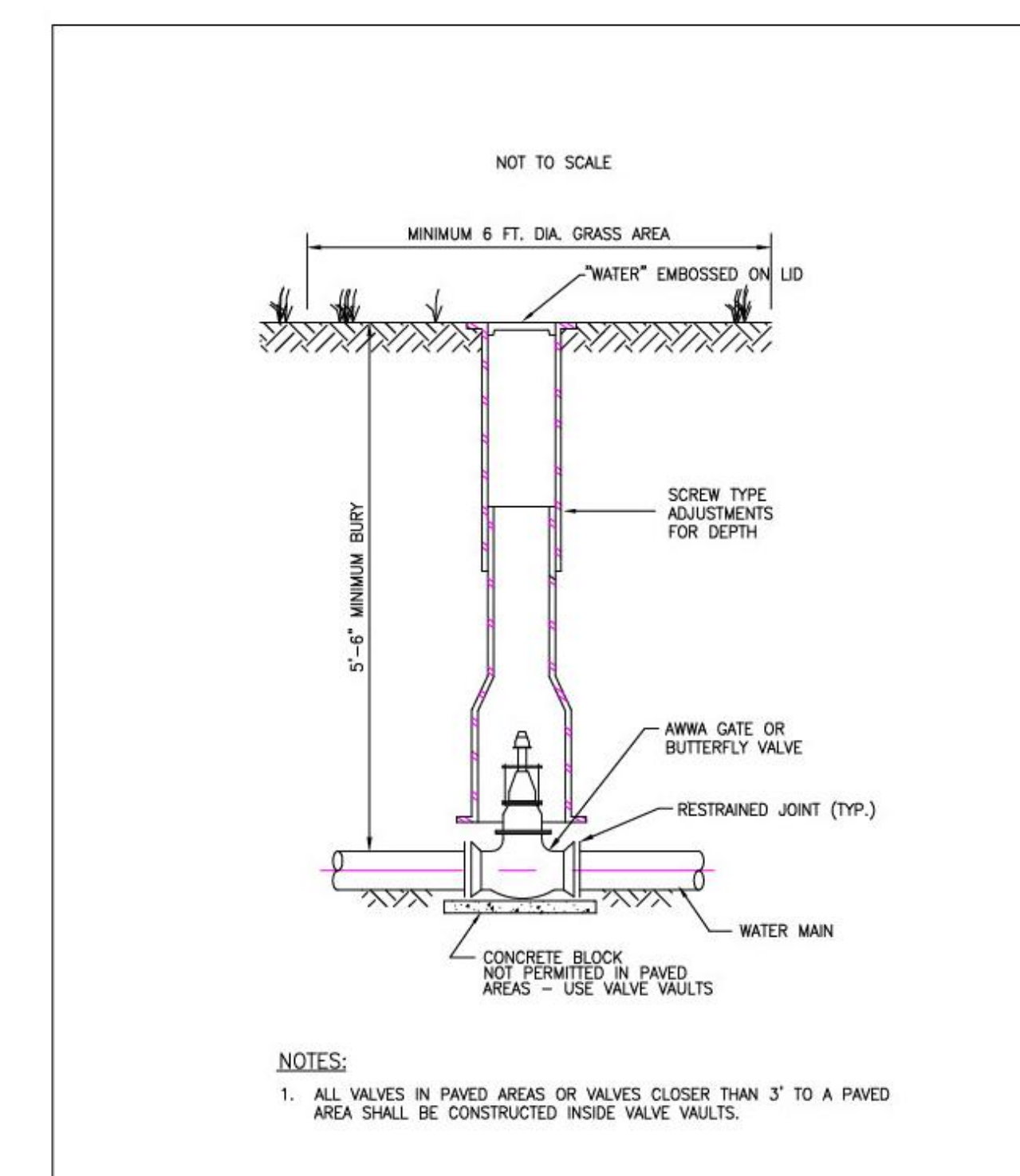
CITY of LA PORTE INDIANA



HYDRANT AND GATE VALVE DETAIL

NO.	REVISION	DATE	FIGURE
			5-28

CITY of LA PORTE INDIANA

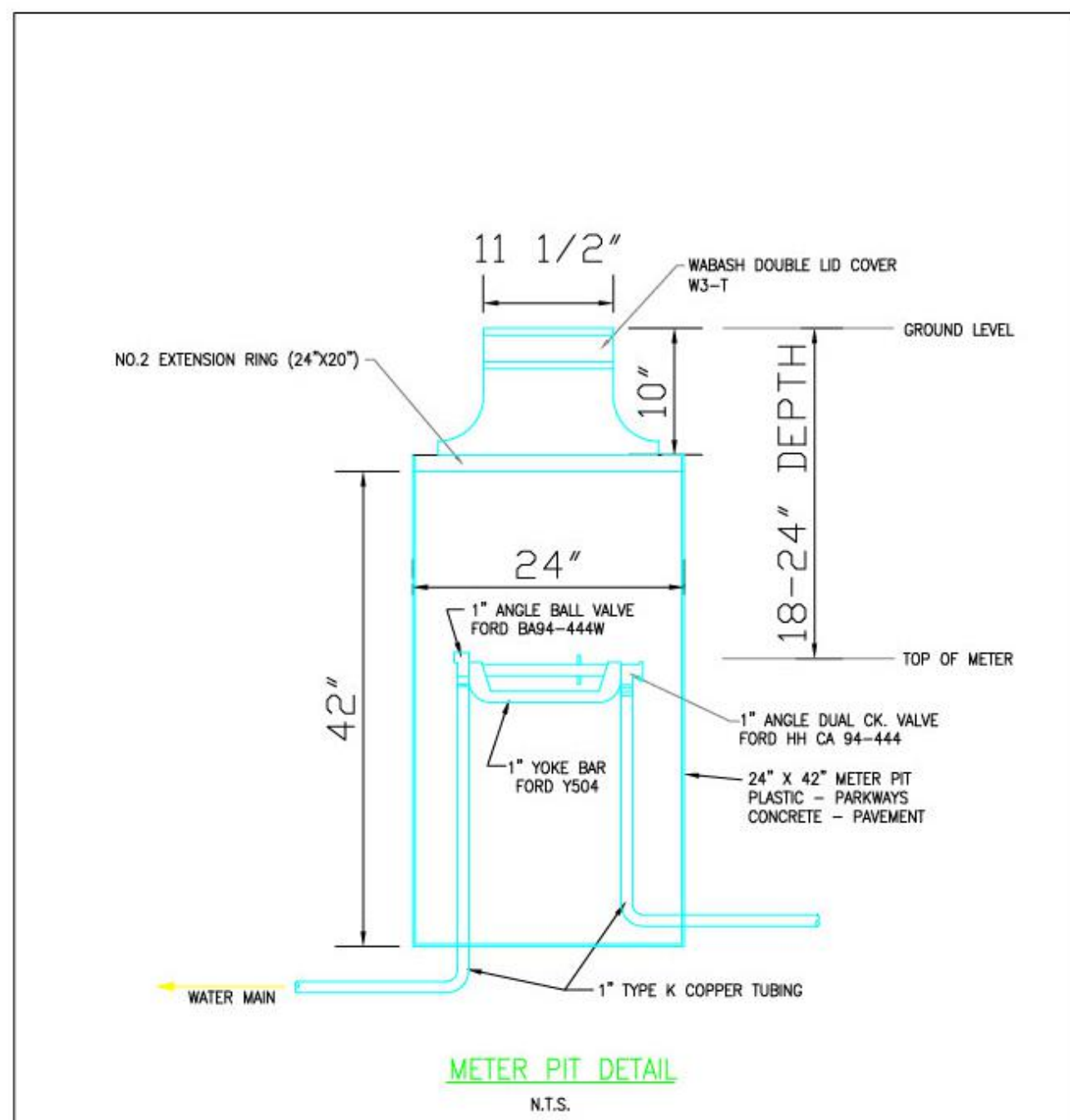


GATE VALVE AND BOX

NO.	REVISION	DATE	FIGURE
			5-29

CITY of LA PORTE INDIANA

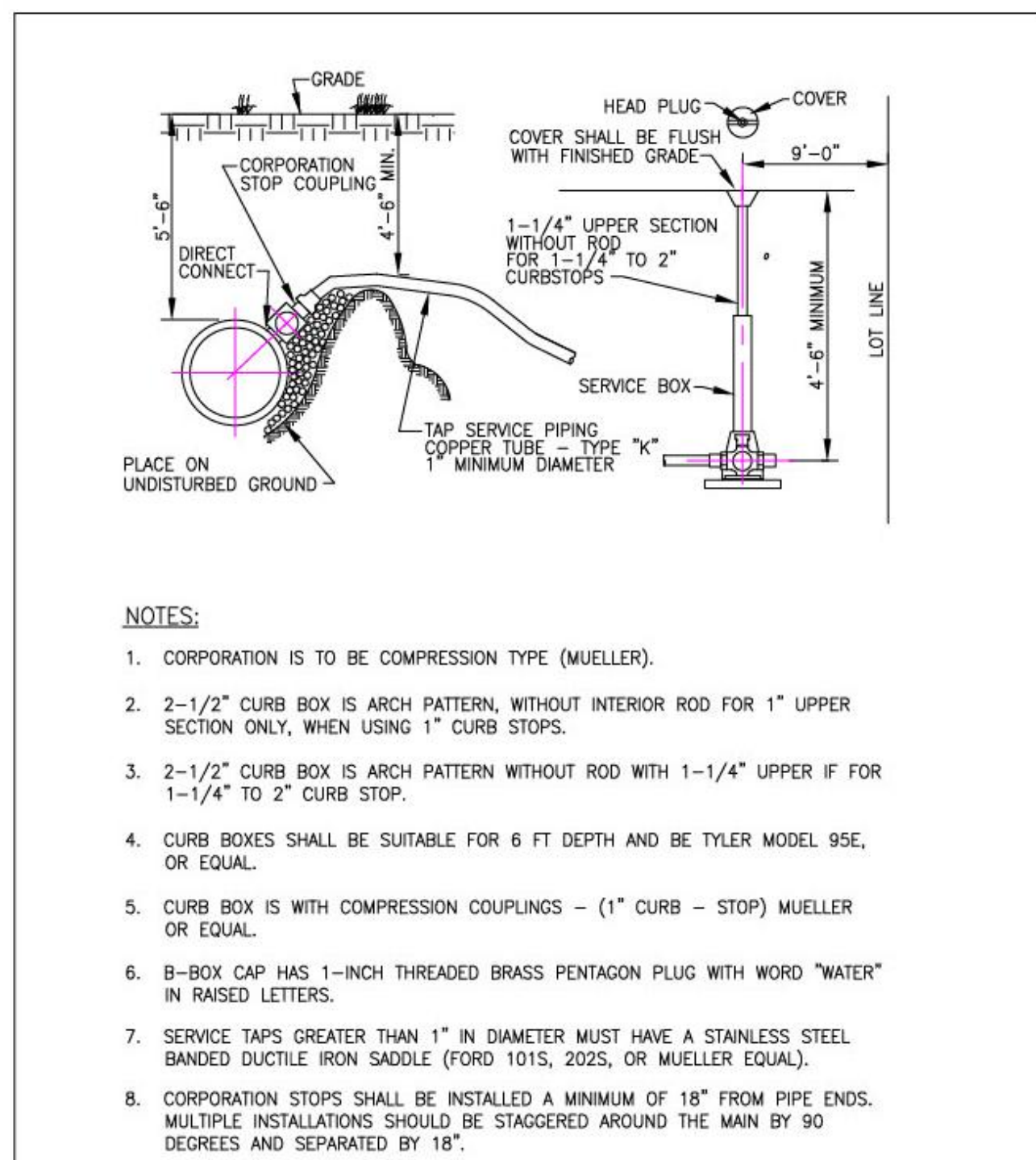




RESIDENTIAL METER/SERVICE INSTALLATION

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			5-30

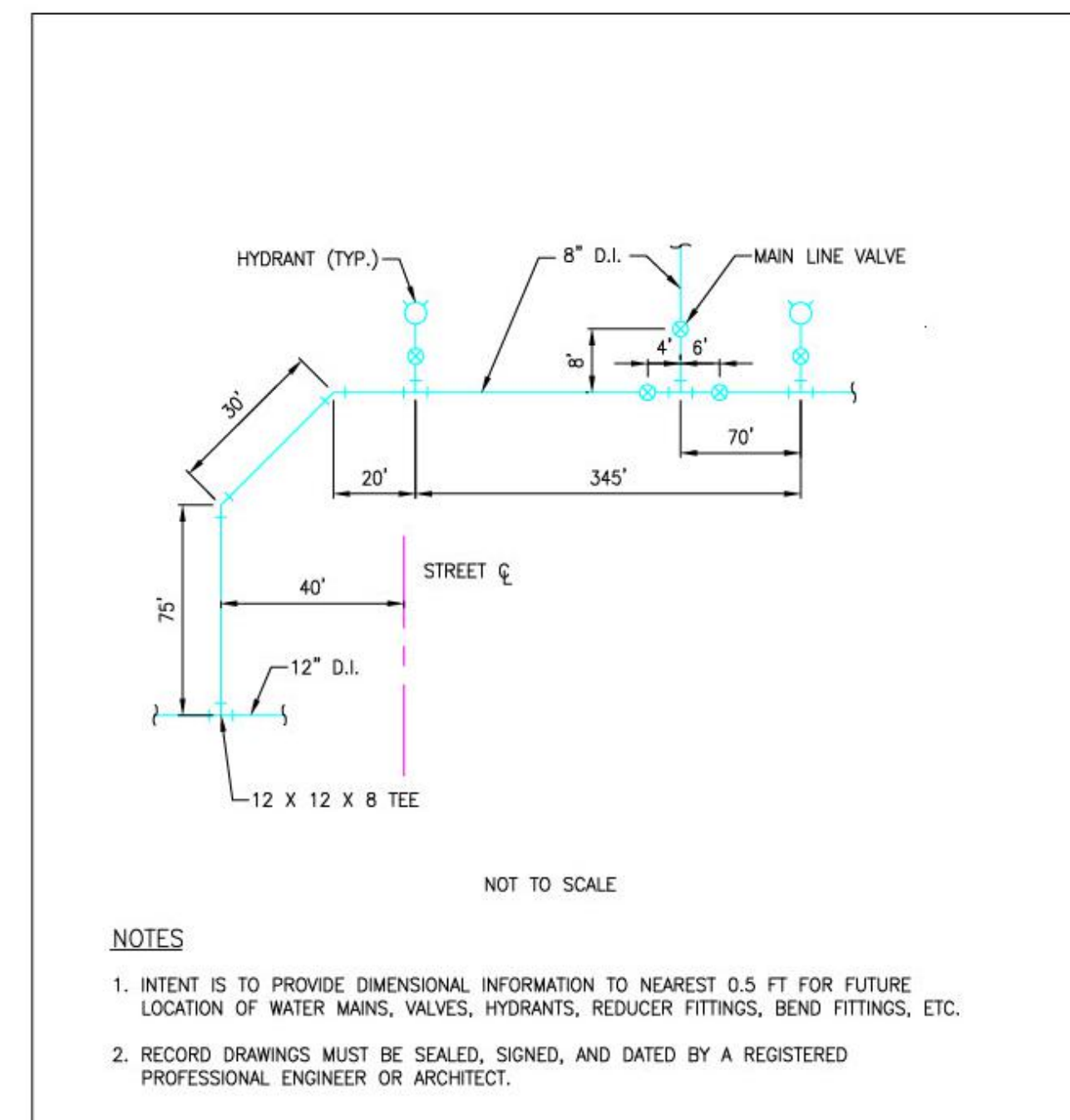
CITY of LA PORTE INDIANA



SERVICE TAP AND CONNECTION

NO.	REVISION	DATE	FIGURE
			5-30

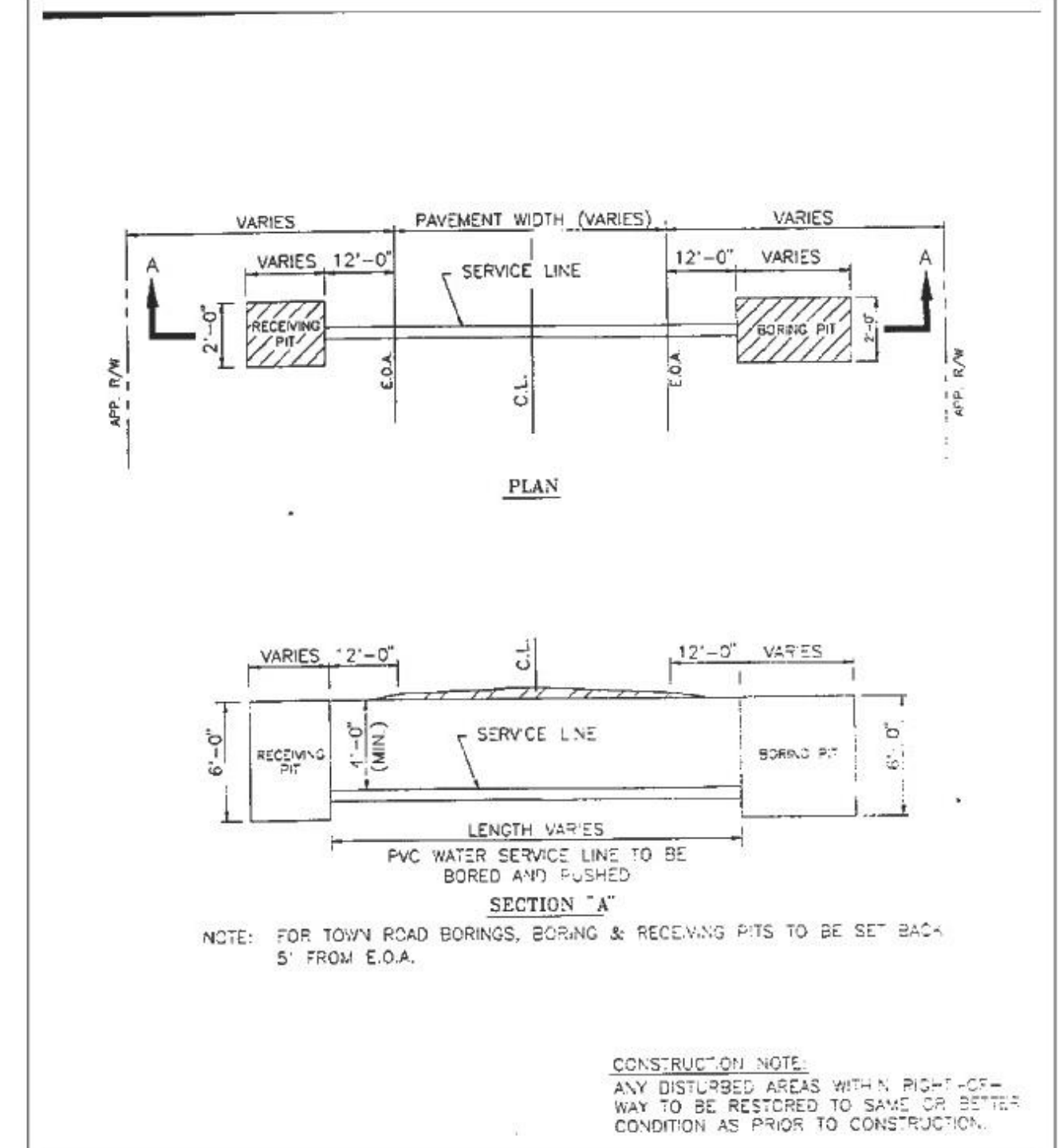
CITY of LA PORTE INDIANA



RECORD DRAWING EXAMPLE

NO.	REVISION	DATE	FIGURE
			5-32

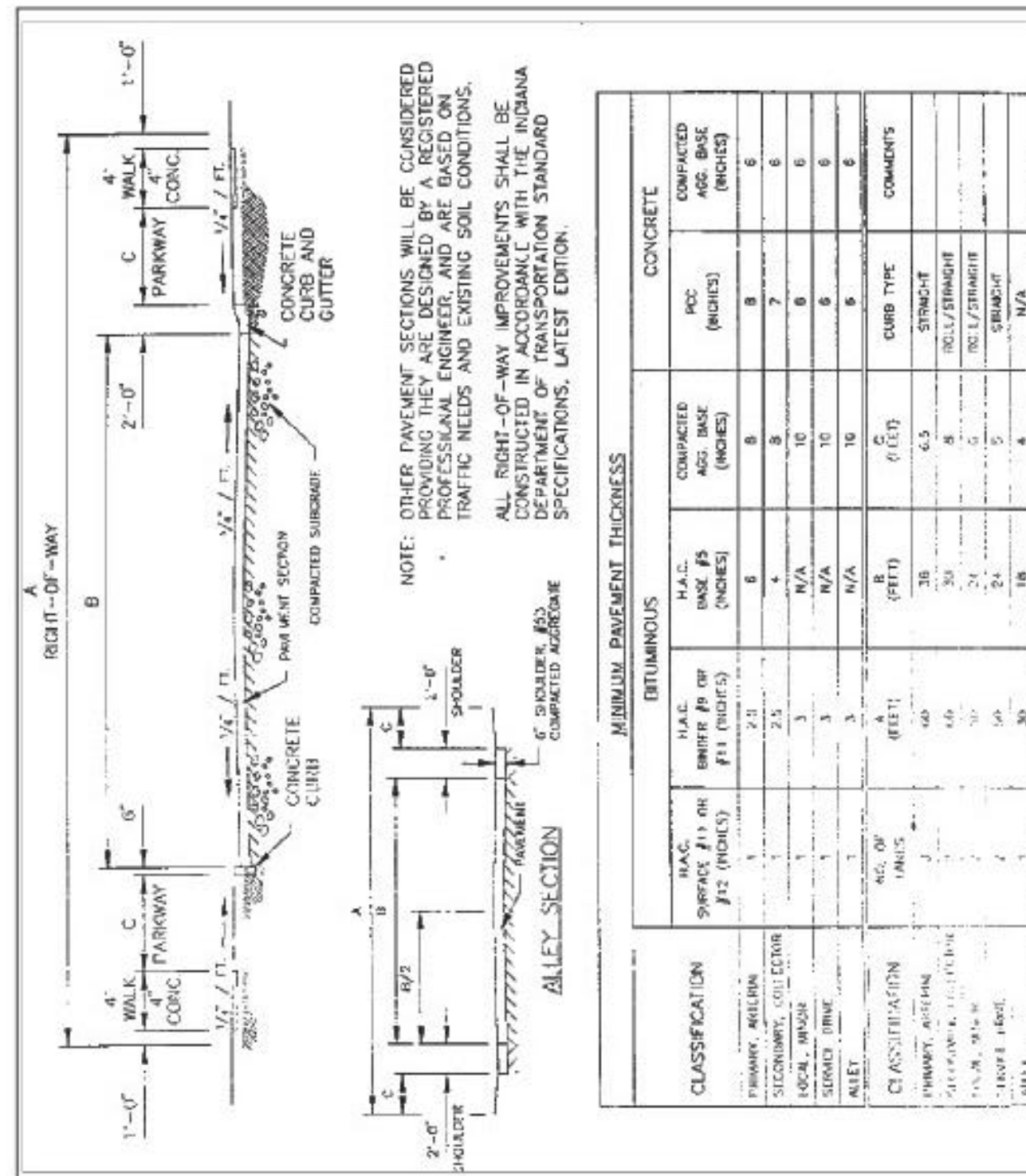
CITY of LA PORTE INDIANA



WATER SERVICE LINE JACK AND BORE DETAIL

NO.	REVISION	DATE	FIGURE
			5-33

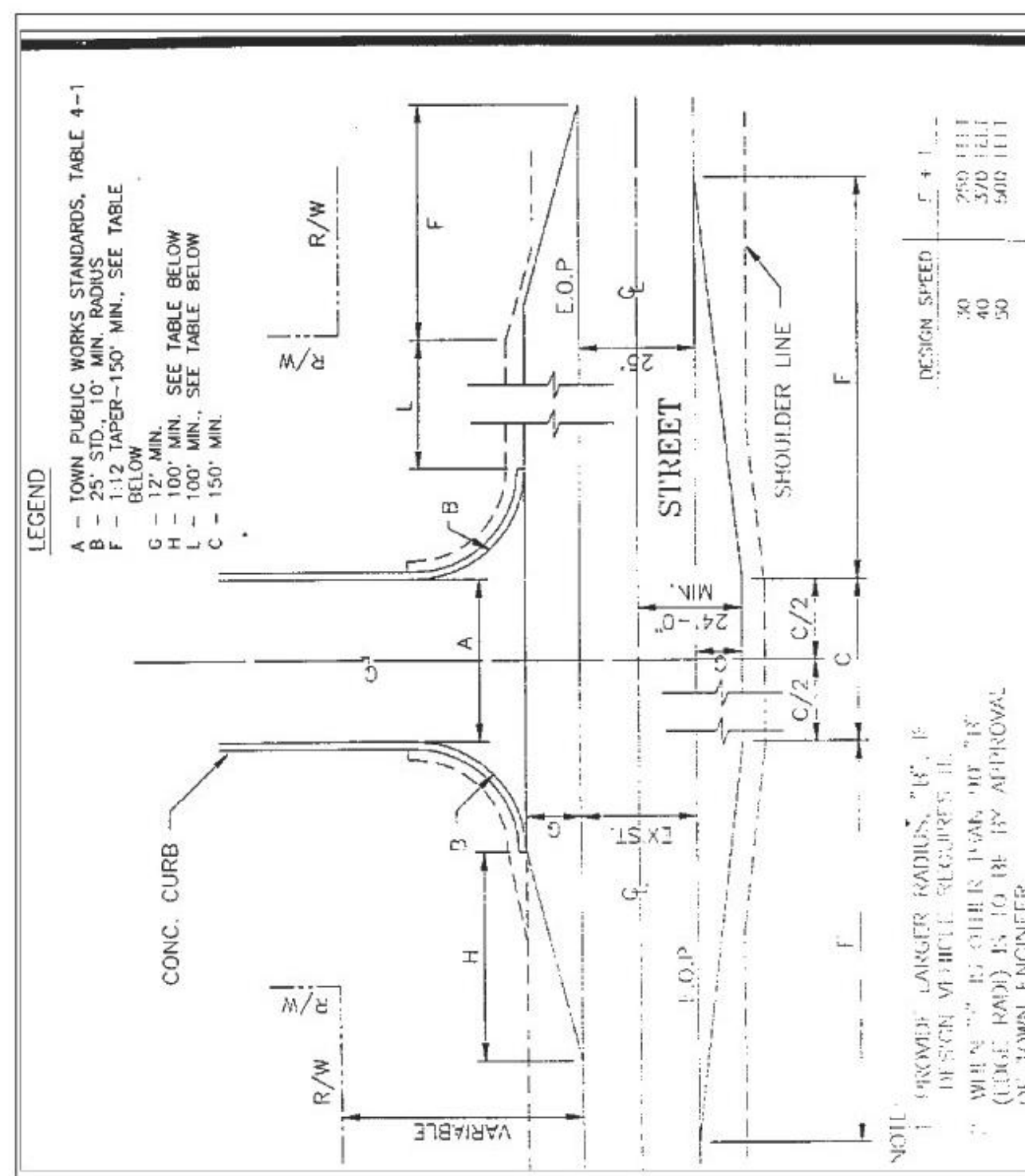
CITY of LA PORTE INDIANA



PAVEMENT DETAILS

NO.	REVISION	DATE	FIGURE
			5-34

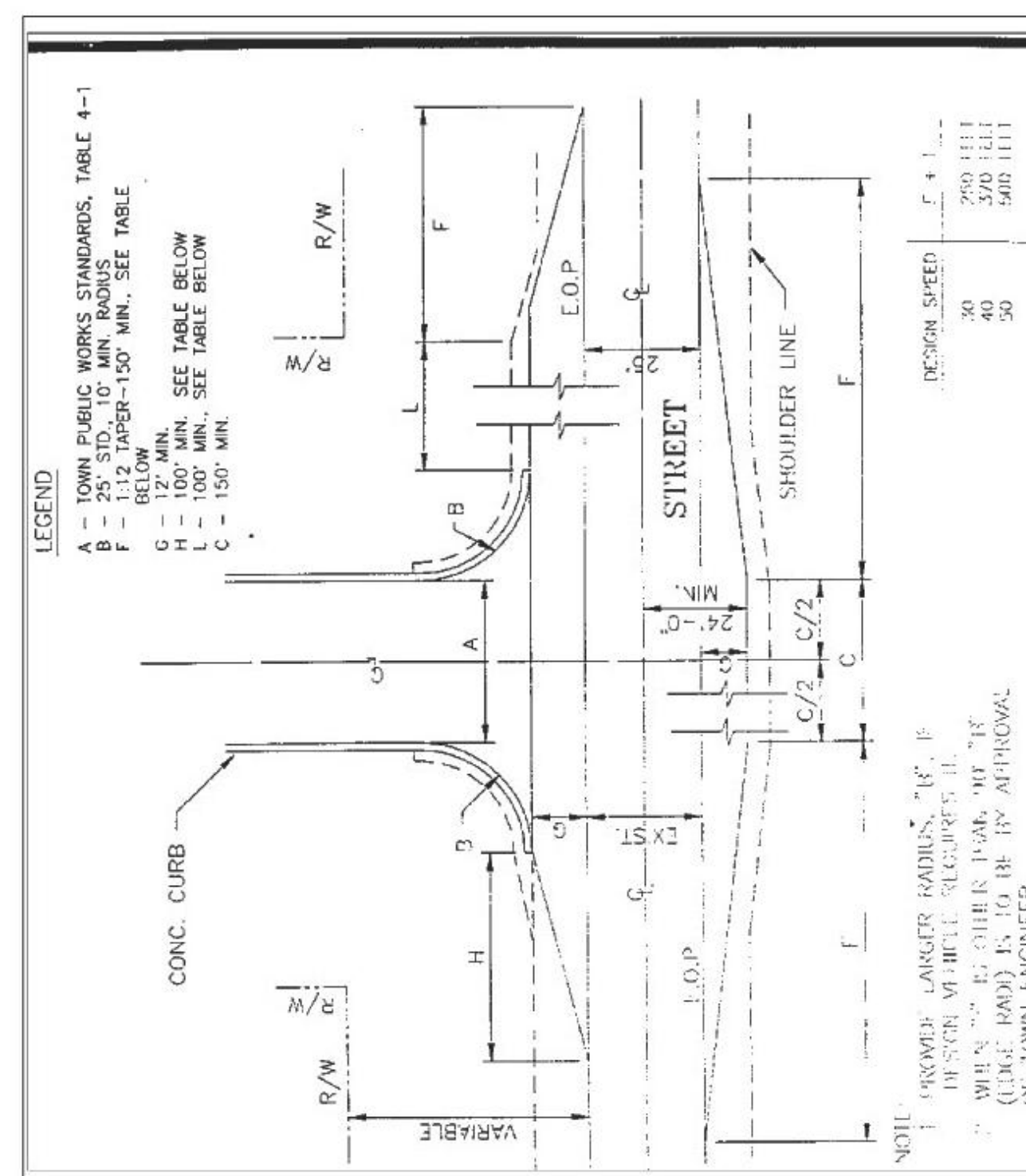
CITY of LA PORTE INDIANA



PUBLIC STREET OR ROAD APPROACH DETAIL

NO.	REVISION	DATE	FIGURE
			5-36

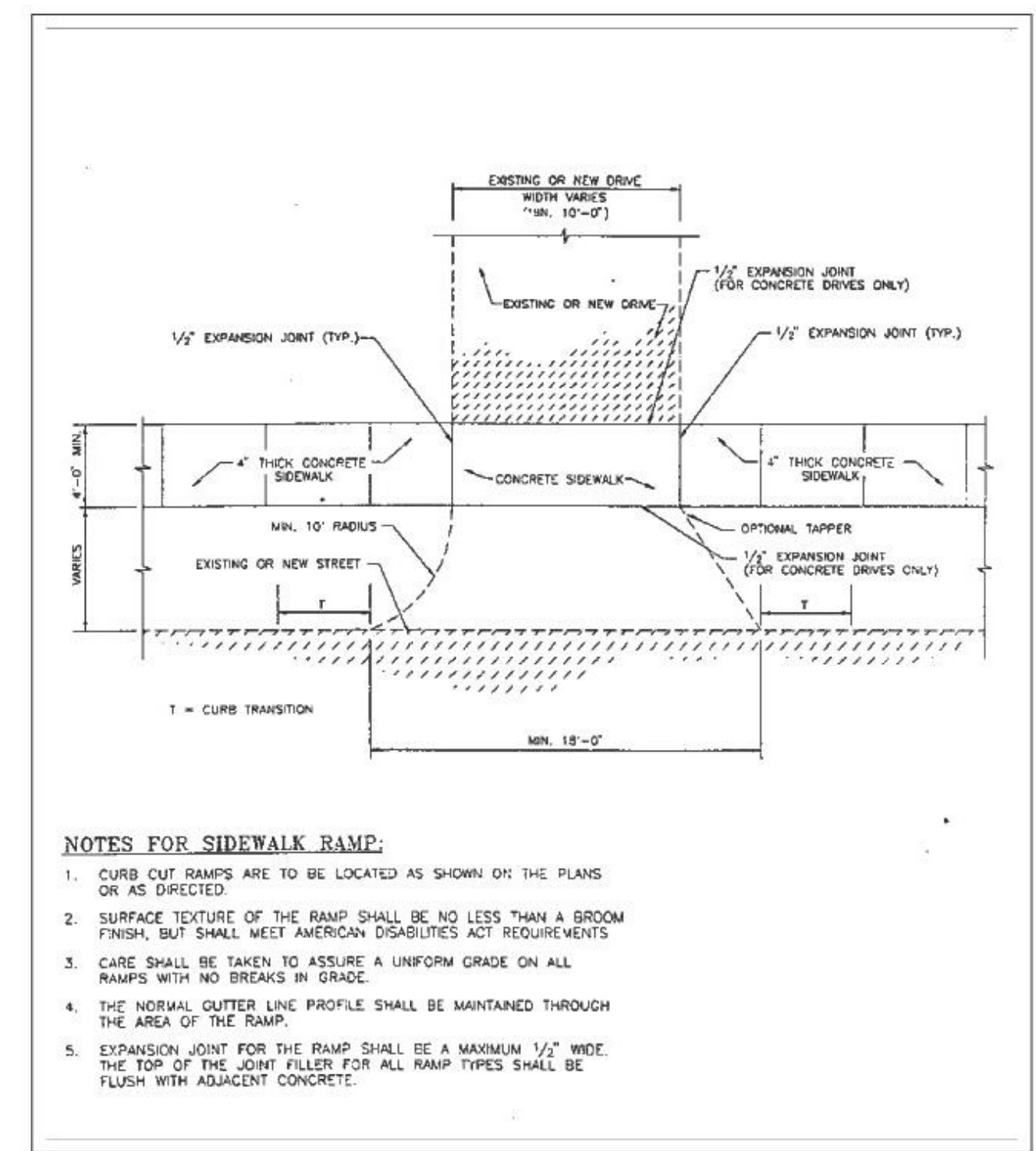
CITY of LA PORTE INDIANA



PUBLIC STREET OR ROAD APPROACH DETAIL

NO.	REVISION	DATE	FIGURE
			5-36

CITY of LA PORTE INDIANA



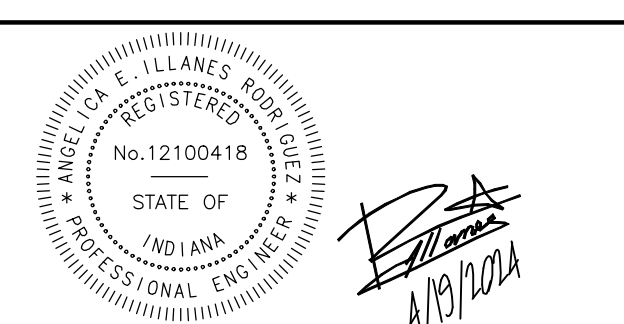
TYPICAL RESIDENTIAL DRIVE APPROACH DETAIL

NO.	REVISION	DATE	FIGURE
			5-37

CITY of LA PORTE INDIANA

NO.	REVISION	DATE	FIGURE
			5-34

CITY of LA PORTE INDIANA



CITY OF LA PORTE INDIANA

HUNTER WOODS

CITY OF LAPORTE DETAILS

INDIANA

SHEET C-41

PROJECT 3139

DRAWING NUMBER 3139.000.41

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com

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

DRAWN: SCC CHK'D: SCC  
DESIGNED: AIR APPR'D: CLR  
DATE: 4/19/2024  
HORIZ. SCALE: 1"=30'  
VERT. SCALE: 1"=3'  
PROJECT STATUS: PRELIMINARY







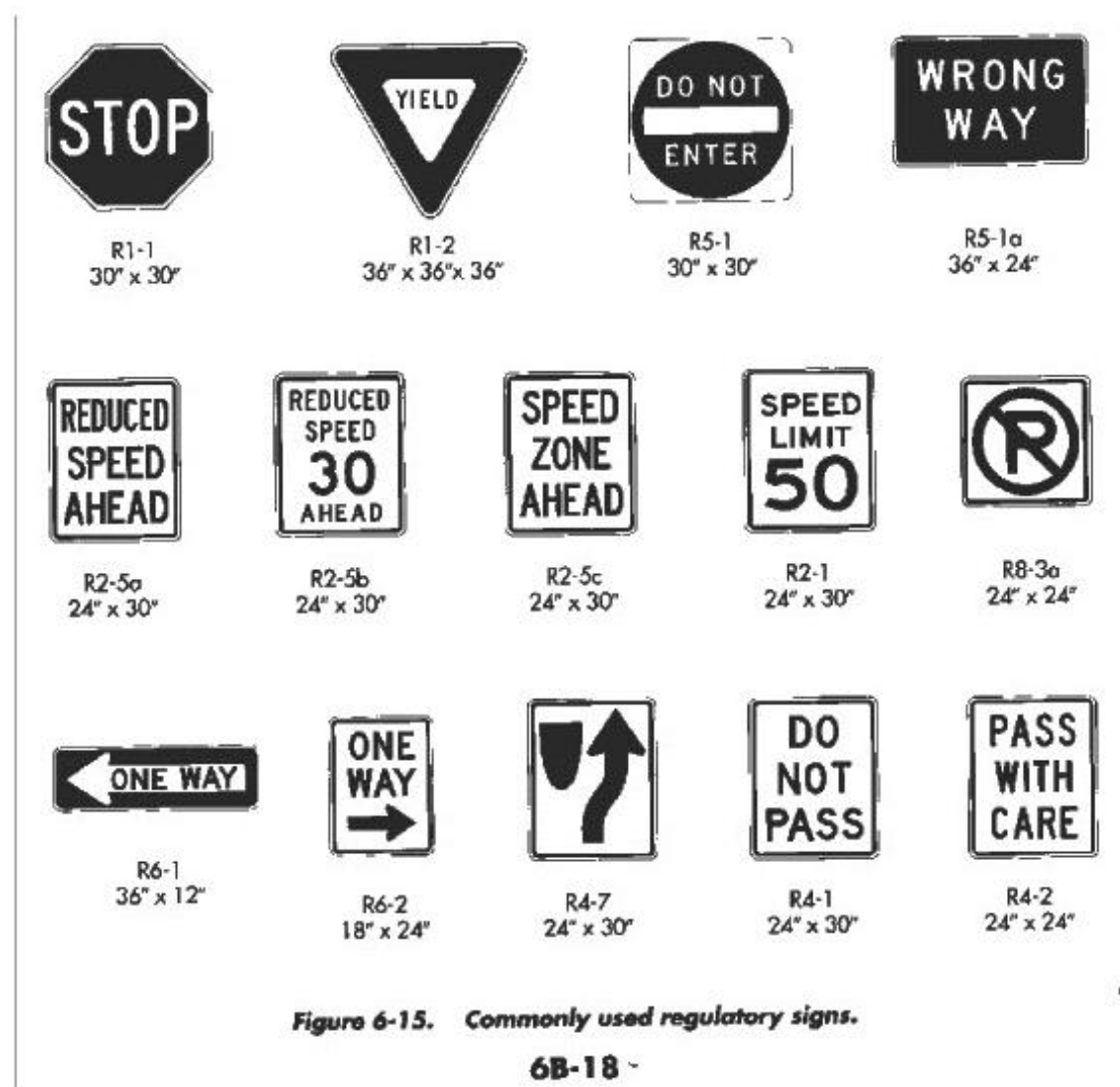
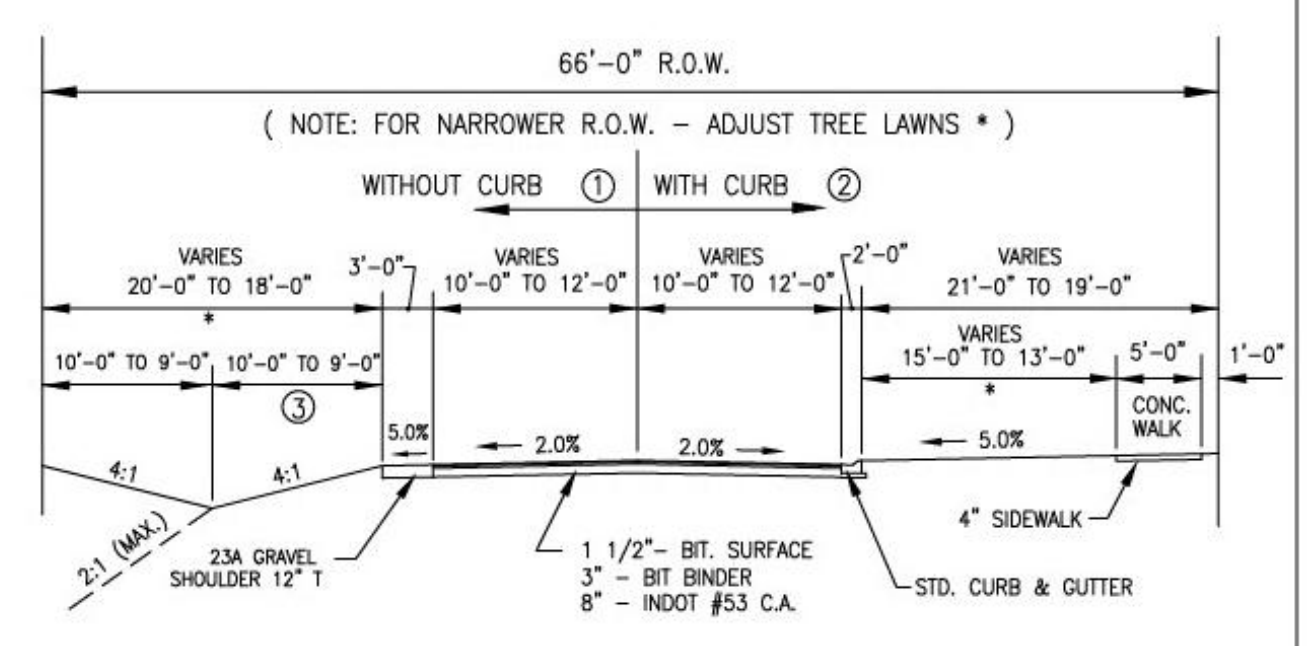


Figure 6-15. Commonly used regulatory signs. 6B-18



NOTES:  
 1. POSITIVE OUTLET FOR SIDE DITCH DRAINAGE REQUIRED.  
 2. IF CURBED, STORM DRAINAGE SYSTEM REQUIRED.  
 3. IF GRADE IS STEEPER THAN 4:1, GUARD RAIL MAY BE REQUIRED BY CITY ENGINEER.

REGULATORY SIGNS		
NO.	REVISION	DATE

CITY of LA PORTE  
INDIANA

FIGURE  
5-61

LOCAL STREET SECTION - WITHOUT PARKING		
NO.	REVISION	DATE

CITY of LA PORTE  
INDIANA

FIGURE  
5-66



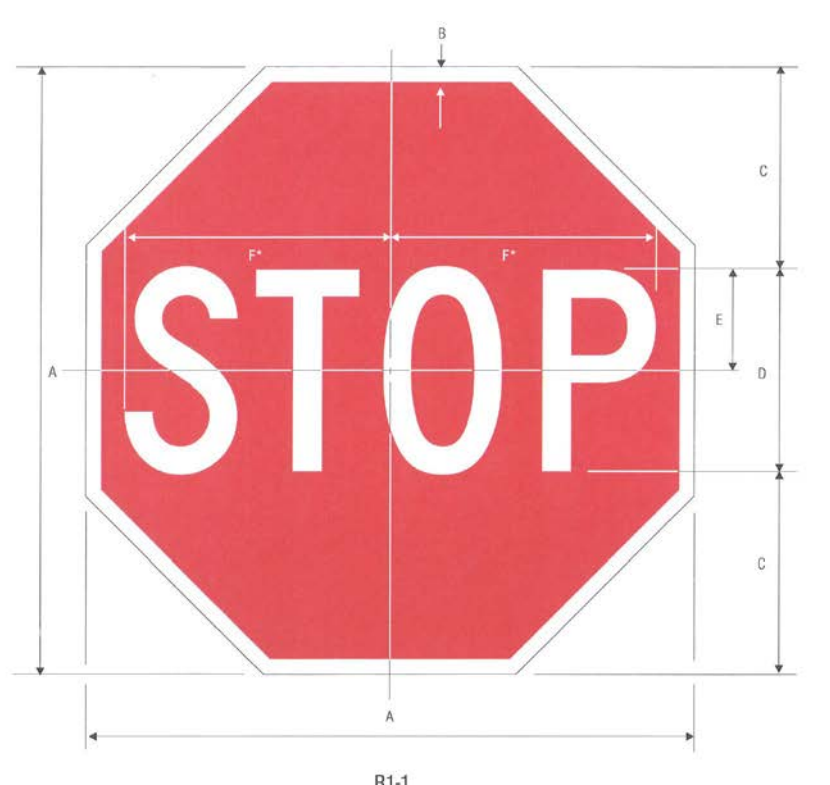
A	B	C	D	E	F	G	H	J	K	L
24	375	625	5 01	3	75	4.125	45	11.625	12.063	15
30	5	75	6 6	4	100	5	5.375	13.50	14.5	18.75
36	625	875	7 6	5	1.125	5.875	6.25	16.25	16.500	2.25
48	75	1.25	10 0	6	1.5	8.25	9	23.25	24.100	3

COLORS: LEGEND BORDER - BLACK  
BACKGROUND - YELLOW (RETROREFLECTIVE)



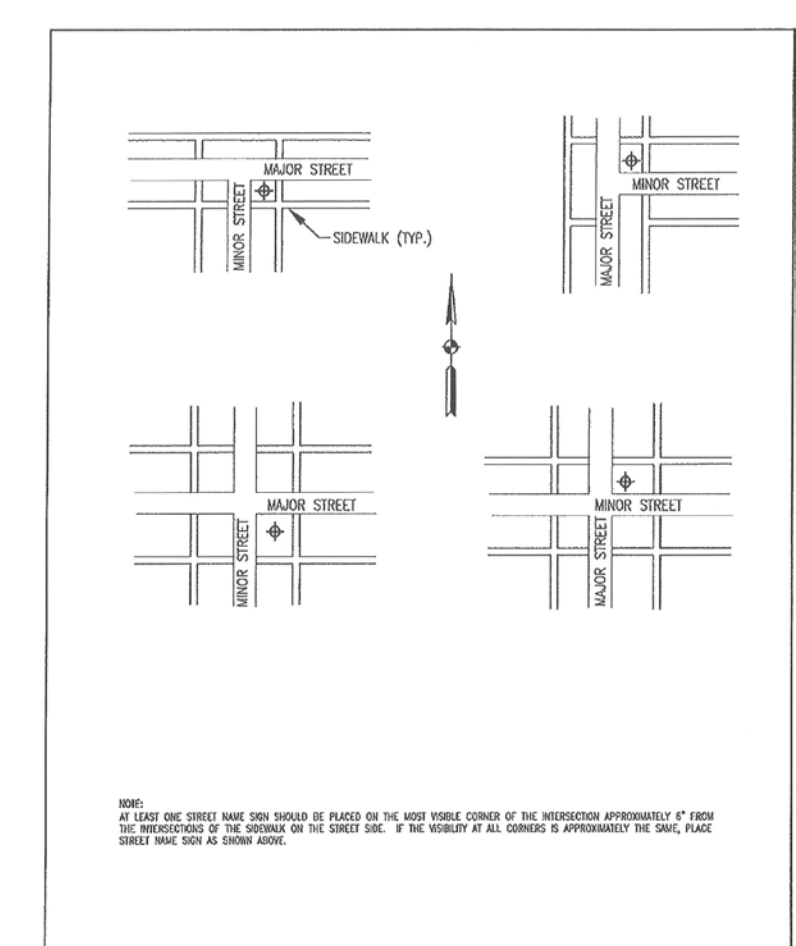
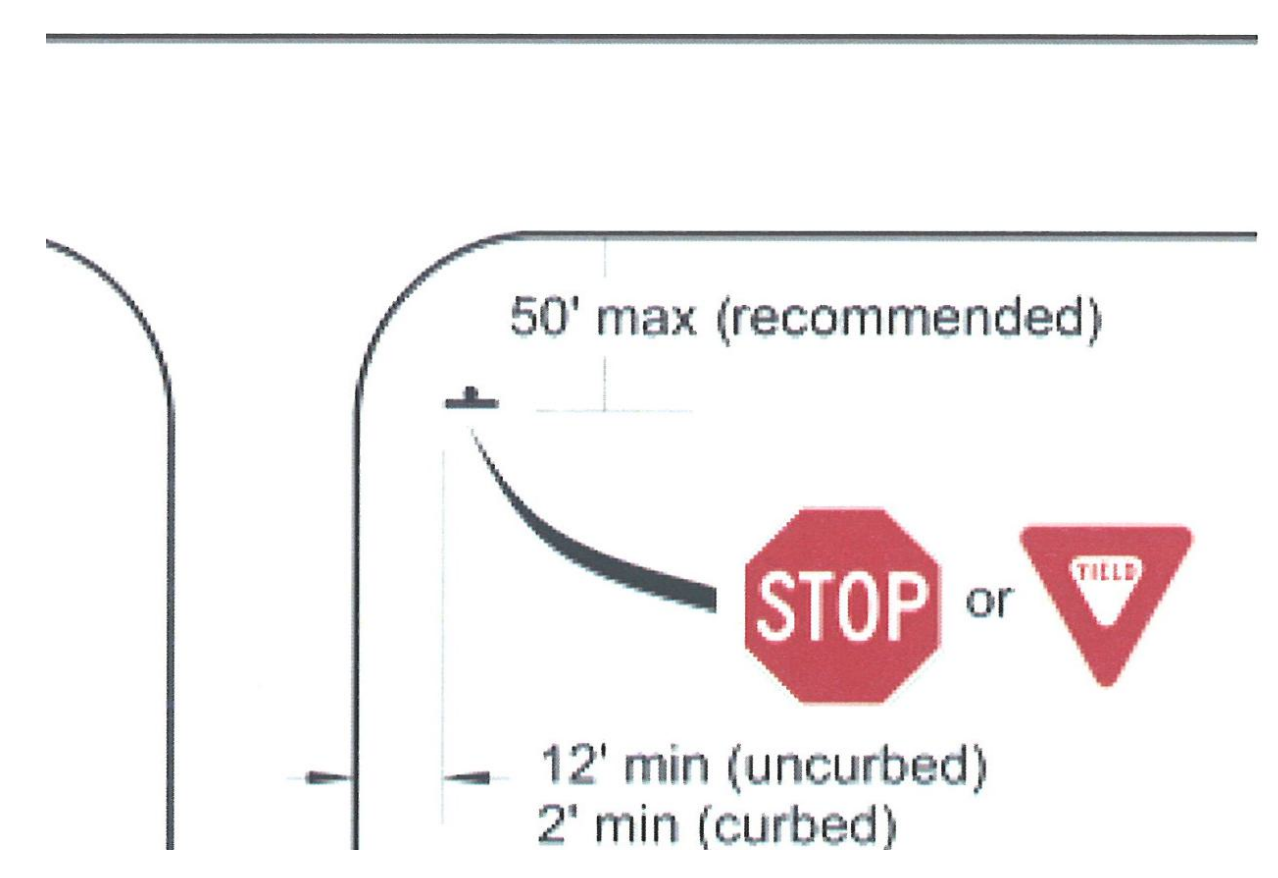
A	B	C	D	E	F	G	H	J	K	L
18	24	375	825	3	3 1/2	2	8 1/2	17.66	5.5	1.5
24	30	375	825	4	4 E	2	10 E	5.903	2.313	1.5
36	48	625	875	6	6 E	5	14 E	14.375	11	2.25
48	60	75	1.25	8	8 E	6	18 E	19.25	14.825	3

COLORS: LEGEND - BLACK  
BACKGROUND - WHITE (RETROREFLECTIVE)



A	B	C	D	E	F
18	375	6	8 C	3	7.75
24	508	8	8 C	4	10
30	75	10	10 C	5	12.5
36	875	12	12 C	6	15
48	1.25	16	16 C	8	20

COLORS: LEGEND - WHITE (RETROREFLECTIVE)  
BACKGROUND - RED (RETROREFLECTIVE)



STREET NAME SIGN PLACEMENT

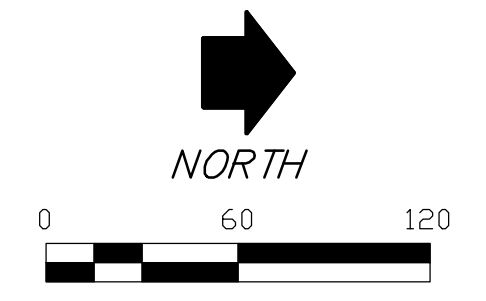
**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: [dgi@dunelandgroup.com](mailto:dgi@dunelandgroup.com)

Know what's below.  
Call before you dig.

DRAWN: SCC	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: AIR	APPR'VD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: 1"=3'						EROSION
PROJECT STATUS						
PRELIMINARY						

CITY OF LA PORTE	INDIANA	SHEET C-43
HUNTER WOODS		PROJECT 3139
CITY OF LAPORTE DETAILS		DRAWING NUMBER
		3139.000.43





BOUNDARY OF PROPOSED CONSTRUCTION. AREA OUTSIDE THIS BOUNDARY TO REMAIN UNDISTURBED DURING CONSTRUCTION OF IMPROVEMENTS AND BUILDING.

SILT FENCE - INSTALL ALONG SWALES OR DITCHES, IF REQUIRED. INSTALL ALONG FILL MATERIAL SLOPE/EMBANKMENT PRIOR TO CONSTRUCTION. MAINTAIN UNTIL A THICK GRASS GROWTH IS ESTABLISHED ON EXPOSED AREAS ADJACENT AND SLOPING TOWARD THE PAVEMENT / ROADS / DITCHES.

- SILT FENCE CONSTRUCTION**
- 1.) ALONG THE ENTIRE INTENDED FENCE LINE, DIG AN 8-IN. DEEP FLAT-BOTTOMED TRENCH.
  - 2.) ON THE DOWNSLOPE SIDE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT. INTO THE GROUND SPACING THEM NO MORE THAN 8 FT. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 FT. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE.
  - 3.) FASTEN SUPPORT WIRE FENCE, IF THE MANUFACTURER RECOMMENDS ITS USE TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN. INTO THE TRENCH.
  - 4.) RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC UPSLOPE OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
  - 5.) IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
  - 6.) PLACE THE BOTTOM 1 FT. OF FABRIC IN THE 8-IN. DEEP TRENCH, EXTENDING THE REMAINING 4 IN. TOWARD THE UPSLOPE SIDE.
  - 7.) BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**SILT FENCE OUTLET CONSTRUCTION (OPTIONAL)**

- 1.) PLAN FOR THE FENCE TO BE AT LEAST 10' FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
- 2.) PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.
- 3.) DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL FROM A 2-YEAR FREQUENCY, 24-HOUR DURATION STORM EVENT).
- 4.) SET THE OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1 1/2 FEET AT THE LOWEST POINT ALONG THE FENCE LINE.
- 5.) LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 FT. APART, AND INSTALL A HORIZONTAL BRACE BETWEEN THEM. (WEIR HEIGHT SHOULD BE NO MORE THAN 1 FT. AND WATER DEPTH NO MORE THAN 1 1/2 FT. ANYWHERE ELSE ALONG THE FENCE.)
- 6.) EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 FT. DEEP, 5 FT. WIDE, AND 5 FT. LONG ON LEVEL GRADE.
- 7.) FILL THE EXCAVATED FOUNDATION WITH INDOT CA NO. 1 STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLENDS WITH THE SURROUNDING AREA, ALLOWING NO OVERFALL.
- 8.) STABILIZE THE AREA AROUND THE PAD.

**SOIL TYPE BOUNDARY**

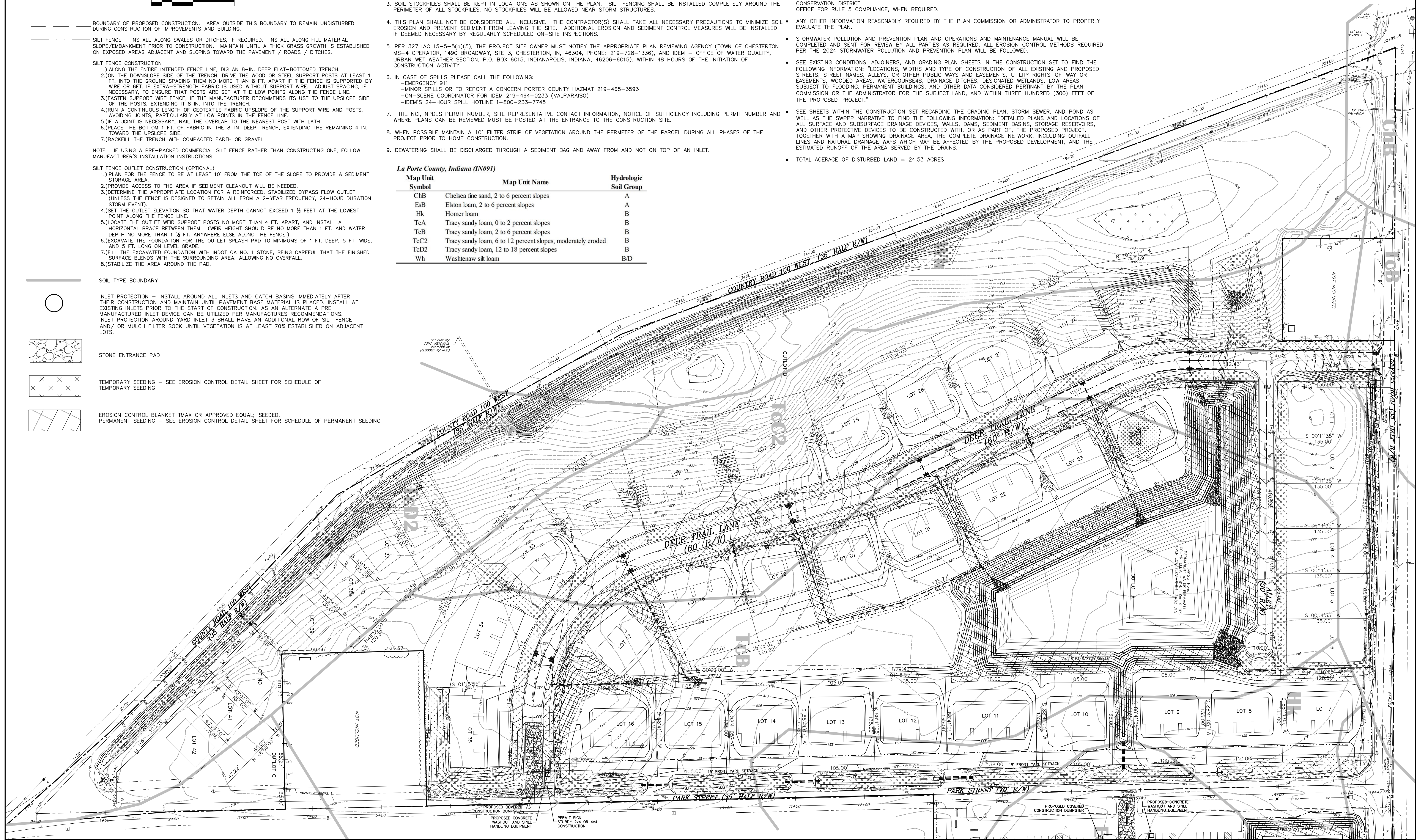
- INLET PROTECTION - INSTALL AROUND ALL INLETS AND CATCH BASINS IMMEDIATELY AFTER THEIR CONSTRUCTION AND MAINTAIN UNTIL PAVEMENT BASE MATERIAL IS PLACED. INSTALL AT EXISTING INLETS PRIOR TO THE START OF CONSTRUCTION, AS AN ALTERNATE A PRE MANUFACTURED INLET DEVICE CAN BE UTILIZED PER MANUFACTURER'S RECOMMENDATIONS. INLET PROTECTION AROUND YARD INLET 3 SHALL HAVE AN ADDITIONAL ROW OF SILT FENCE AND/ OR MULCH FILTER SOCK UNTIL VEGETATION IS AT LEAST 70% ESTABLISHED ON ADJACENT LOTS.
- STONE ENTRANCE PAD
- TEMPORARY SEEDING - SEE EROSION CONTROL DETAIL SHEET FOR SCHEDULE OF TEMPORARY SEEDING
- EROSION CONTROL BLANKET TMAX OR APPROVED EQUAL, SEEDED. PERMANENT SEEDING - SEE EROSION CONTROL DETAIL SHEET FOR SCHEDULE OF PERMANENT SEEDING

1. ALL EROSION CONTROL PRACTICES SHALL CONFORM TO RULE 5 REGULATIONS AND STANDARD SPECIFICATIONS FROM THE INDIANA STORM WATER QUALITY MANUAL.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES OUTLINED IN THESE PLANS AT ANY LOCATION USED TO OBTAIN OR DISPOSE OF FILL MATERIAL. IN THE EVENT THAT FILL FROM OUTSIDE OF THE SITE IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE NPDES PERMITS FOR THE OFFSITE LOCATION. IF A NPDES PERMIT FOR THE OFFSITE LOCATION EXISTS, THE CONTRACTOR SHALL COMPLY WITH ITS REQUIREMENTS.
3. SOIL STOCKPILES SHALL BE KEPT IN LOCATIONS AS SHOWN ON THE PLAN. SILT FENCING SHALL BE INSTALLED COMPLETELY AROUND THE PERIMETER OF ALL STOCKPILES. NO STOCKPILES WILL BE ALLOWED NEAR STORM STRUCTURES.
4. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR(S) SHALL TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE SOIL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY REGULARLY SCHEDULED ON-SITE INSPECTIONS.
5. PER 327 IAC 15-5-5(a)(5), THE PROJECT SITE OWNER MUST NOTIFY THE APPROPRIATE PLAN REVIEWING AGENCY (TOWN OF CHESTERTON MS-4 OPERATOR, 1490 BROADWAY, STE 3, CHESTERTON, IN, 46304, PHONE: 219-728-1336), AND IDEM - OFFICE OF WATER QUALITY, URBAN WET WEATHER SECTION, P.O. BOX 6015, INDIANAPOLIS, INDIANA, 46206-6015), WITHIN 48 HOURS OF THE INITIATION OF CONSTRUCTION ACTIVITY.
6. IN CASE OF SPILLS PLEASE CALL THE FOLLOWING:
  - EMERGENCY 911
  - MINOR SPILLS OR TO REPORT A CONCERN PORTER COUNTY HAZMAT 219-465-3593
  - ON-SCENE COORDINATOR FOR IDEM 219-464-0233 (VALPARAISO)
  - IDEM'S 24-HOUR SPILL HOTLINE 1-800-233-7745
7. THE NOI, NPDES PERMIT NUMBER, SITE REPRESENTATIVE CONTACT INFORMATION, NOTICE OF SUFFICIENCY INCLUDING PERMIT NUMBER AND WHERE PLANS CAN BE REVIEWED MUST BE POSTED AT THE ENTRANCE TO THE CONSTRUCTION SITE.
8. WHEN POSSIBLE MAINTAIN A 10' FILTER STRIP OF VEGETATION AROUND THE PERIMETER OF THE PARCEL DURING ALL PHASES OF THE PROJECT PRIOR TO HOME CONSTRUCTION.
9. DEWATERING SHALL BE DISCHARGED THROUGH A SEDIMENT BAG AND AWAY FROM AND NOT ON TOP OF AN INLET.

- NOTES:**
- "ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDNR INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS: DATED OCTOBER 1992 AND THE SCS FIELD OFFICE TECHNICAL GUIDE."
  - "THE ADMINISTRATOR, LA PORTE COUNTY SURVEYOR, AND OTHER APPLICABLE DEPARTMENTS HAVE THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT."
  - COPIES OF THE LETTER OF INTENT AND RESPONSE FROM THE LA PORTE COUNTY SOIL AND WATER CONSERVATION DISTRICT.
  - ANY OTHER INFORMATION REASONABLY REQUIRED BY THE PLAN COMMISSION OR ADMINISTRATOR TO PROPERLY EVALUATE THE PLAN.
  - STORMWATER POLLUTION AND PREVENTION PLAN AND OPERATIONS AND MAINTENANCE MANUAL WILL BE COMPLETED AND SENT FOR REVIEW BY ALL PARTIES AS REQUIRED. ALL EROSION CONTROL METHODS REQUIRED PER THE 2024 STORMWATER POLLUTION AND PREVENTION PLAN WILL BE FOLLOWED.
  - SEE EXISTING CONDITIONS, ADJOINERS, AND GRADING PLAN SHEETS IN THE CONSTRUCTION SET TO FIND THE FOLLOWING INFORMATION: "LOCATIONS, WIDTHS AND TYPE OF CONSTRUCTION OF ALL EXISTING AND PROPOSED STREETS, STREET NAMES, ALLEYS, OR OTHER PUBLIC WAYS AND EASEMENTS, UTILITY RIGHTS-OF-WAY OR EASEMENTS, WOODED AREAS, WATERCOURSES, DRAINAGE DITCHES, DESIGNATED WETLANDS, LOW AREAS SUBJECT TO FLOODING, PERMANENT BUILDINGS, AND OTHER DATA CONSIDERED PERTINANT BY THE PLAN COMMISSION OR THE ADMINISTRATOR FOR THE SUBJECT LAND, AND WITHIN THREE HUNDRED (300) FEET OF THE PROPOSED PROJECT."
  - SEE SHEETS WITHIN THE CONSTRUCTION SET REGARDING THE GRADING PLAN, STORM SEWER, AND POND AS WELL AS THE SWPPP NARRATIVE TO FIND THE FOLLOWING INFORMATION: "DETAILED PLANS AND LOCATIONS OF ALL SURFACE AND SUBSURFACE DRAINAGE DEVICES, WALLS, DAMS, SEDIMENT BASINS, STORAGE RESERVOIRS, AND OTHER PROTECTIVE DEVICES TO BE CONSTRUCTED WITH, OR AS PART OF, THE PROPOSED PROJECT, TOGETHER WITH A MAP SHOWING DRAINAGE AREA, THE COMPLETE DRAINAGE NETWORK, INCLUDING OUTFALL LINES AND NATURAL DRAINAGE WAYS WHICH MAY BE AFFECTED BY THE PROPOSED DEVELOPMENT, AND THE ESTIMATED RUNOFF OF THE AREA SERVED BY THE DRAINS."
  - TOTAL ACERAGE OF DISTURBED LAND = 24.53 ACRES

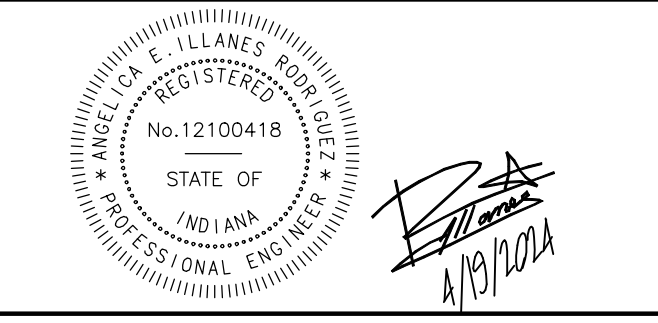
**La Porte County, Indiana (IN091)**

Map Unit Symbol	Map Unit Name	Hydrologic Soil Group
ChB	Chelsea fine sand, 2 to 6 percent slopes	A
EsB	Elston loam, 2 to 6 percent slopes	A
Hk	Homer loam	B
TcA	Tracy sandy loam, 0 to 2 percent slopes	B
TcB	Tracy sandy loam, 2 to 6 percent slopes	B
TcC2	Tracy sandy loam, 6 to 12 percent slopes, moderately eroded	B
TcD2	Tracy sandy loam, 12 to 18 percent slopes	B
Wh	Washtenaw silt loam	B/D



**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL [dgi@dunelandgroup.com](mailto:dgi@dunelandgroup.com)

DRAWN: TWE	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: TWE	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=60'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

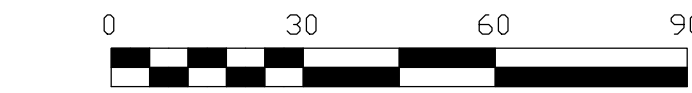
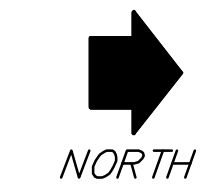
**EROSION CONTROL PLAN**

SHEET C-44

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.44





- BOUNDARY OF PROPOSED CONSTRUCTION. AREA OUTSIDE THIS BOUNDARY TO REMAIN UNDISTURBED DURING CONSTRUCTION OF IMPROVEMENTS AND BUILDING.
- - - SILT FENCE - INSTALL ALONG SWALES OR DITCHES, IF REQUIRED. INSTALL ALONG FILL MATERIAL SLOPE/EMBANKMENT PRIOR TO CONSTRUCTION. MAINTAIN UNTIL A THICK GRASS GROWTH IS ESTABLISHED ON EXPOSED AREAS ADJACENT AND SLOPING TOWARD THE PAVEMENT / ROADS / DITCHES.

- SILT FENCE CONSTRUCTION**
- 1.) ALONG THE ENTIRE INTENDED FENCE LINE, DIG AN 8-IN. DEEP FLAT-BOTTOMED TRENCH.
  - 2.) ON THE DOWNSLOPE SIDE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT. INTO THE GROUND SPACING THEM NO MORE THAN 8 FT. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6FT. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE.
  - 3.) FASTEN SUPPORT WIRE FENCE, IF THE MANUFACTURER RECOMMENDS ITS USE TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN. INTO THE TRENCH.
  - 4.) RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC UPSLOPE OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
  - 5.) IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
  - 6.) PLACE THE BOTTOM 1 FT. OF FABRIC IN THE 8-IN. DEEP TRENCH, EXTENDING THE REMAINING 4 IN. TOWARD THE UPSLOPE SIDE.
  - 7.) BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.
- NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- SILT FENCE OUTLET CONSTRUCTION (OPTIONAL)**
- 1.) PLAN FOR THE FENCE TO BE AT LEAST 10' FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
  - 2.) PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.
  - 3.) DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL FROM A 2-YEAR FREQUENCY, 24-HOUR DURATION STORM EVENT).
  - 4.) SET THE OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1 1/2 FEET AT THE LOWEST POINT ALONG THE FENCE LINE.
  - 5.) LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 FT. APART, AND INSTALL A HORIZONTAL BRACE BETWEEN THEM. (WEIR HEIGHT SHOULD BE NO MORE THAN 1 FT. AND WATER DEPTH NO MORE THAN 1 1/2 FT. ANYWHERE ELSE ALONG THE FENCE.)
  - 6.) EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 FT. DEEP, 5 FT. WIDE, AND 5 FT. LONG ON LEVEL GRADE.
  - 7.) FILL THE EXCAVATED FOUNDATION WITH INDOT CA NO. 1 STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLENDS WITH THE SURROUNDING AREA, ALLOWING NO OVERFALL.
  - 8.) STABILIZE THE AREA AROUND THE PAD.

**SOIL TYPE BOUNDARY**

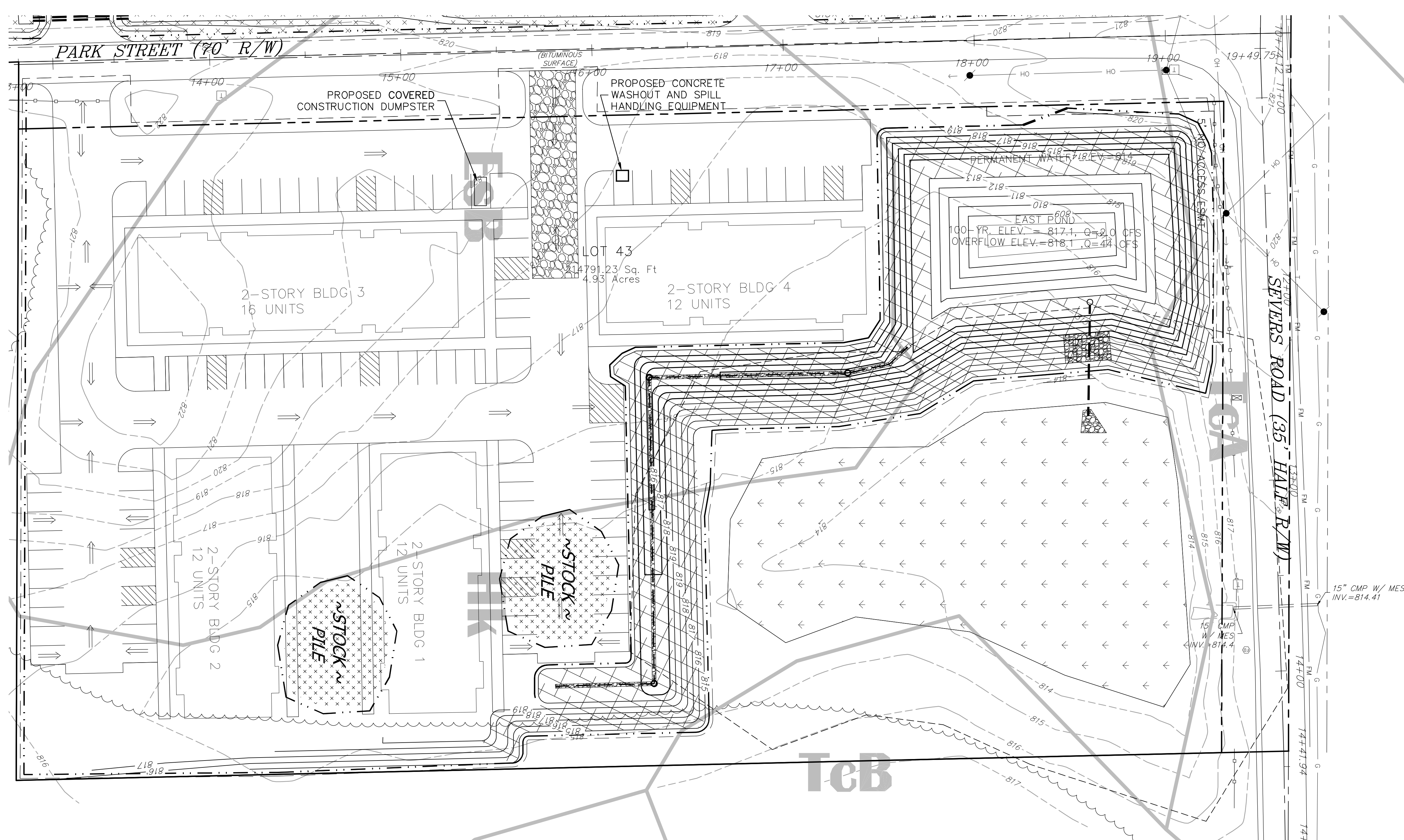
○ INLET PROTECTION - INSTALL AROUND ALL INLETS AND CATCH BASINS IMMEDIATELY AFTER THEIR CONSTRUCTION AND MAINTAIN UNTIL PAVEMENT BASE MATERIAL IS PLACED. INSTALL AT EXISTING INLETS PRIOR TO THE START OF CONSTRUCTION. AS AN ALTERNATE A PRE-MANUFACTURED INLET DEVICE CAN BE UTILIZED PER MANUFACTURER'S RECOMMENDATIONS. INLET PROTECTION AROUND YARD INLET 3 SHALL HAVE AN ADDITIONAL ROW OF SILT FENCE AND/OR MULCH FILTER SOCK UNTIL VEGETATION IS AT LEAST 70% ESTABLISHED ON ADJACENT LOTS.

- STONE ENTRANCE PAD
- TEMPORARY SEEDING - SEE EROSION CONTROL DETAIL SHEET FOR SCHEDULE OF TEMPORARY SEEDING
- EROSION CONTROL BLANKET TMAX OR APPROVED EQUAL; SEEDED. PERMANENT SEEDING - SEE EROSION CONTROL DETAIL SHEET FOR SCHEDULE OF PERMANENT SEEDING

**La Porte County, Indiana (IN091)**

Map Unit Symbol	Map Unit Name	Hydrologic Soil Group
ChB	Chelsea fine sand, 2 to 6 percent slopes	A
EsB	Elston loam, 2 to 6 percent slopes	A
Hk	Homer loam	B
TcA	Tracy sandy loam, 0 to 2 percent slopes	B
TcB	Tracy sandy loam, 2 to 6 percent slopes	B
TcC2	Tracy sandy loam, 6 to 12 percent slopes, moderately eroded	B
TcD2	Tracy sandy loam, 12 to 18 percent slopes	B
Wh	Washtenaw silt loam	B/D

1. ALL EROSION CONTROL PRACTICES SHALL CONFORM TO RULE 5 REGULATIONS AND STANDARD SPECIFICATIONS FROM THE INDIANA STORM WATER QUALITY MANUAL.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES OUTLINED IN THESE PLANS AT ANY LOCATION USED TO OBTAIN OR DISPOSE OF FILL MATERIAL. IN THE EVENT THAT FILL FROM OUTSIDE OF THE SITE IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE NPDES PERMITS FOR THE OFFSITE LOCATION. IF A NPDES PERMIT FOR THE OFFSITE LOCATION EXISTS, THE CONTRACTOR SHALL COMPLY WITH ITS REQUIREMENTS.
3. SOIL STOCKPILES SHALL BE KEPT IN LOCATIONS AS SHOWN ON THE PLAN. SILT FENCING SHALL BE INSTALLED COMPLETELY AROUND THE PERIMETER OF ALL STOCKPILES. NO STOCKPILES WILL BE ALLOWED NEAR STORM STRUCTURES.
4. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR(S) SHALL TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE SOIL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY REGULARLY SCHEDULED ON-SITE INSPECTIONS.
5. PER 327 IAC 15-5-5(a)(5), THE PROJECT SITE OWNER MUST NOTIFY THE APPROPRIATE PLAN REVIEWING AGENCY (TOWN OF CHESTERTON MS-4 OPERATOR, 1490 BROADWAY, STE 3, CHESTERTON, IN, 46304, PHONE: 219-728-1336), AND IDEM - OFFICE OF WATER QUALITY, URBAN WET WEATHER SECTION, P.O. BOX 6015, INDIANAPOLIS, INDIANA, 46206-6015), WITHIN 48 HOURS OF THE INITIATION OF CONSTRUCTION ACTIVITY.
6. IN CASE OF SPILLS PLEASE CALL THE FOLLOWING:
  - EMERGENCY 911
  - MINOR SPILLS OR TO REPORT A CONCERN PORTER COUNTY HAZMAT 219-465-3593
  - ON-SCENE COORDINATOR FOR IDEM 219-464-0233 (VALPARAISO)
  - IDEM'S 24-HOUR SPILL HOTLINE 1-800-235-7745
7. THE NOI, NPDES PERMIT NUMBER, SITE REPRESENTATIVE CONTACT INFORMATION, NOTICE OF SUFFICIENCY INCLUDING PERMIT NUMBER AND WHERE PLANS CAN BE REVIEWED MUST BE POSTED AT THE ENTRANCE TO THE CONSTRUCTION SITE.
8. WHEN POSSIBLE MAINTAIN A 10' FILTER STRIP OF VEGETATION AROUND THE PERMETER OF THE PARCEL DURING ALL PHASES OF THE PROJECT PRIOR TO HOME CONSTRUCTION.
9. DEWATERING SHALL BE DISCHARGED THROUGH A SEDIMENT BAG AND AWAY FROM AND NOT ON TOP OF AN INLET.

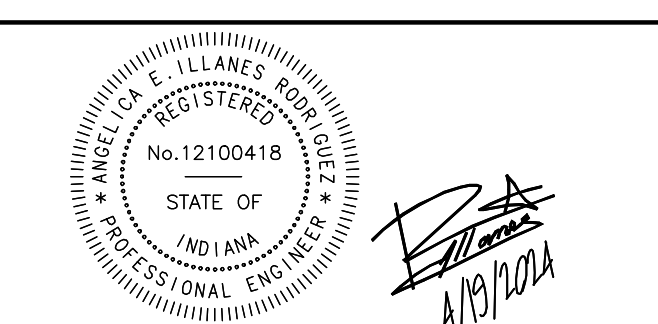


- NOTES:**
- "ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDNR INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS: DATED OCTOBER 1992 AND THE SCS FIELD OFFICE TECHNICAL GUIDE."
  - "THE ADMINISTRATOR, LA PORTE COUNTY SURVEYOR, AND OTHER APPLICABLE DEPARTMENTS HAVE THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT."
  - COPIES OF THE LETTER OF INTENT AND RESPONSE FROM THE LA PORTE COUNTY SOIL AND WATER CONSERVATION DISTRICT OFFICE FOR RULE 5 COMPLIANCE, WHEN REQUIRED.
  - ANY OTHER INFORMATION REASONABLY REQUIRED BY THE PLAN COMMISSION OR ADMINISTRATOR TO PROPERLY EVALUATE THE PLAN.
  - STORMWATER POLLUTION AND PREVENTION PLAN AND OPERATIONS AND MAINTENANCE MANUAL WILL BE COMPLETED AND SENT FOR REVIEW BY ALL PARTIES AS REQUIRED. ALL EROSION CONTROL METHODS REQUIRED PER THE 2024 STORMWATER POLLUTION AND PREVENTION PLAN WILL BE FOLLOWED.
  - SEE EXISTING CONDITIONS, ADJOINERS, AND GRADING PLAN SHEETS IN THE CONSTRUCTION SET TO FIND THE FOLLOWING INFORMATION: "LOCATIONS, WIDTHS AND TYPE OF CONSTRUCTION OF ALL EXISTING AND PROPOSED STREETS, STREET NAMES, ALLEYS, OR OTHER PUBLIC WAYS AND EASEMENTS, UTILITY RIGHTS-OF-WAY OR EASEMENTS, WOODED AREAS, WATERCOURSE4S, DRAINAGE DITCHES, DESIGNATED WETLANDS, LOW AREAS SUBJECT TO FLOODING, PERMANENT BUILDINGS, AND OTHER DATA CONSIDERED PERTINANT BY THE PLAN COMMISSION OR THE ADMINISTRATOR FOR THE SUBJECT LAND, AND WITHIN THREE HUNDRED (300) FEET OF THE PROPOSED PROJECT."
  - SEE SHEETS WITHIN THE CONSTRUCTION SET REGARDING THE GRADING PLAN, STORM SEWER, AND POND AS WELL AS THE SWPPP NARRATIVE TO FIND THE FOLLOWING INFORMATION: "DETAILED PLANS AND LOCATIONS OF ALL SURFACE AND SUBSURFACE DRAINAGE DEVICES, WALLS, DAMS, SEDIMENT BASINS, STORAGE RESERVOIRS, AND OTHER PROTECTIVE DEVICES TO BE CONSTRUCTED WITH, OR AS PART OF, THE PROPOSED PROJECT, TOGETHER WITH A MAP SHOWING DRAINAGE AREA, THE COMPLETE DRAINAGE NETWORK, INCLUDING OUTFALL LINES AND NATURAL DRAINAGE WAYS WHICH MAY BE AFFECTED BY THE PROPOSED DEVELOPMENT, AND THE ESTIMATED RUNOFF OF THE AREA SERVED BY THE DRAINS."
  - TOTAL ACERAGE OF DISTURBED LAND = 24.53 ACRES

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com



DRAWN: TWE	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: TWE	APPRVD: CLR	△				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

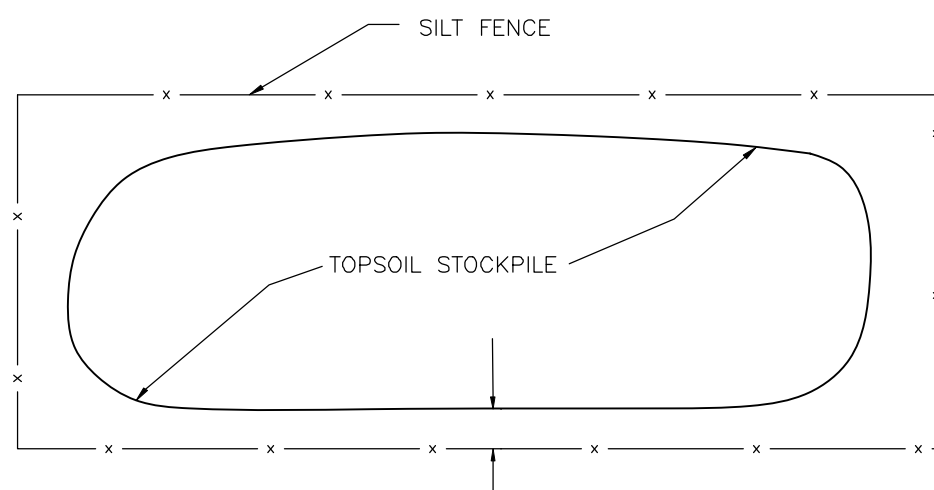
**HUNTER WOODS**

**EROSION CONTROL PLAN**

SHEET C-45

PROJECT 3139  
NUMBER  
DRAWING NUMBER  
3139.000.45





**TOPSOIL STOCKPILE NOTE:**

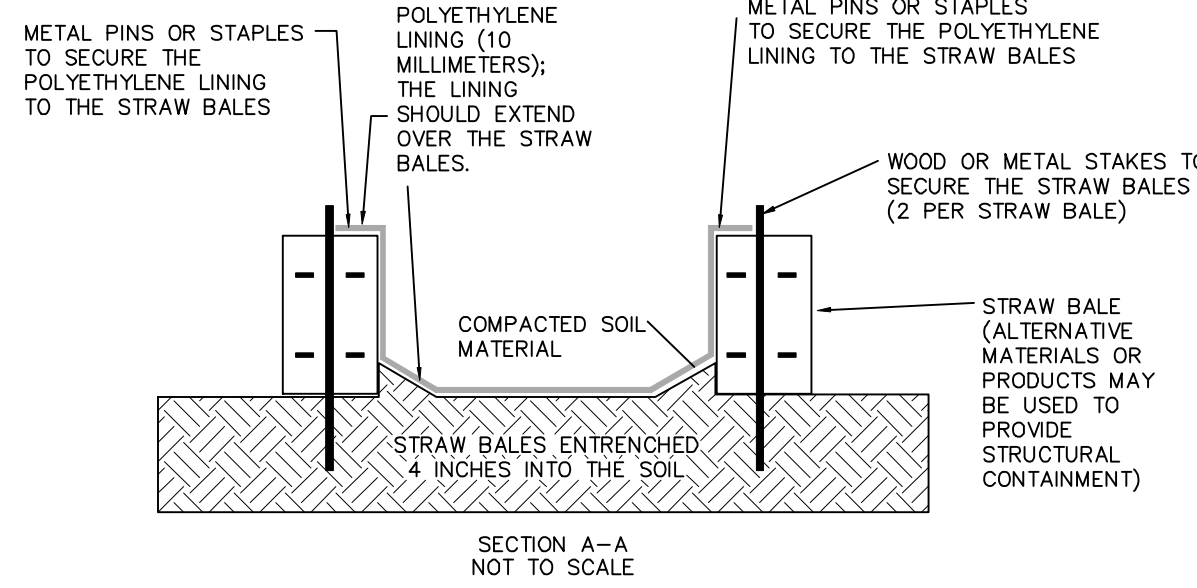
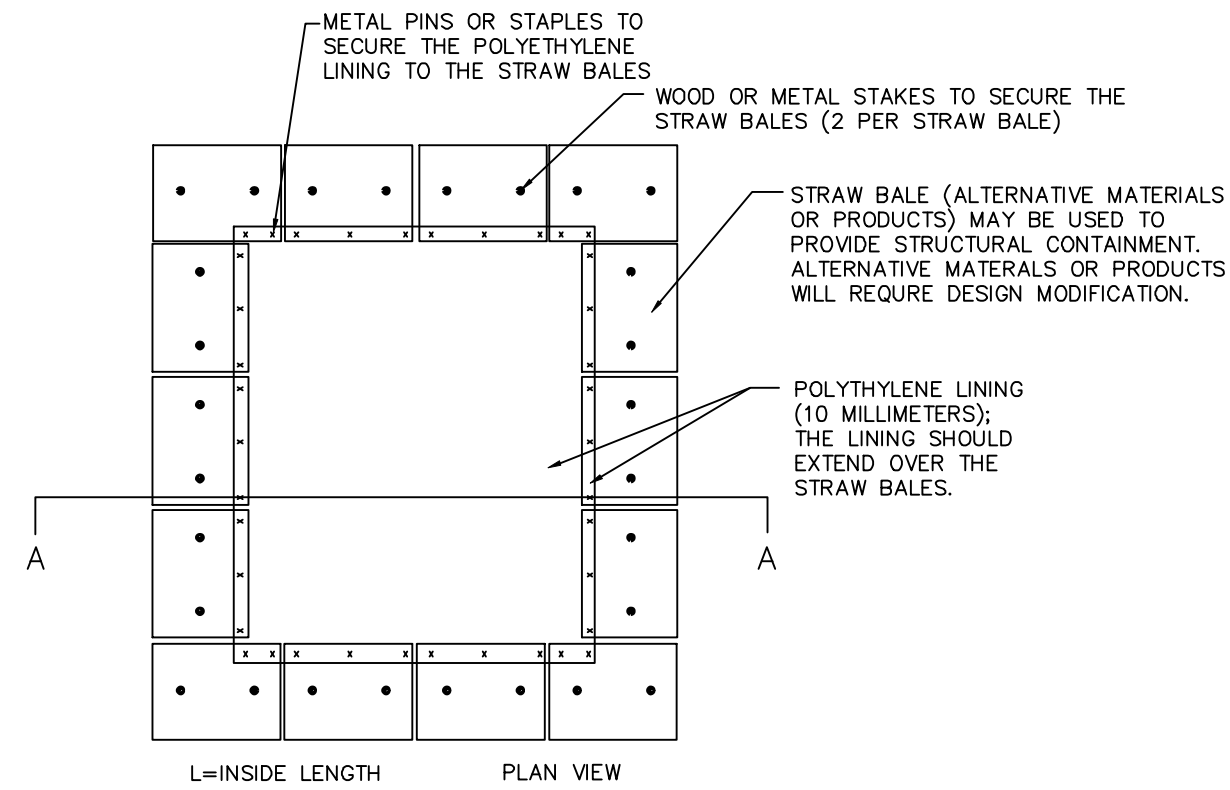
- 1) TEMPORARY PILES OF TOPSOIL LEFT UNDISTURBED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED
- 2) CONTRACTOR SHALL MAKE EVERY EFFORT TO SPREAD 4"-6" OF TOPSOIL AROUND THE LOT.

**TYPICAL TOPSOIL STOCKPILE**

**SILT SOCK MAINTENANCE AND REMOVAL PROCEDURES:**

INSPECT WEEKLY AND WITHIN 24 HOURS OF EACH MEASURABLE STORM EVENT FOR THE FOLLOWING AND TAKE THE RECOMMENDED ACTION:

- DEFORMATION DUE TO DRIVE-OVER OR DRAGGING. IF NOTED CORRECTIVE ACTION SHALL INCLUDE RE-CONTOURING THE SOCK BY HAND.
- SOCK ROLLING DUE TO HYDRAULIC FORCE. IF NOTED CORRECTIVE ACTION SHALL INCLUDE REPOSITIONING THE SOCK BY HAND.
- LOSS OF GROUND CONTACT. IF NOTED CORRECTIVE ACTION SHALL INCLUDE PLACEMENT OF WEIGHT ON TOP OF THE SILT SOCK TO ASSURE CONTACT WITH THE GROUND SURFACE IS MADE.
- SEDIMENT ACCUMULATION TO 1/2 THE SOCK HEIGHT. IF SEDIMENT ACCUMULATES REMOVE IT BY HAND AND DISPOSE OF THE SEDIMENT IN A LEGAL MANNER.
- HOLES, RIPS OR TEARS OF THE SOCK. IF NOTED SMALL HOLES AND NARROW RIPS SHORTER THAN 12 INCHES MAY BE STITCHED CLOSED USING PLASTIC ZIP-TIES. TEARS THAT ARE LONGER THAN 12 INCHES REQUIRE THE SOCK TO BE REPLACED.
- PINCHING OR LOCALIZED DIAMETER REDUCTION OF MORE THAN 1/2 THE ORIGINAL DIAMETER. INSTALL A NEW SECTION OF SOCK AROUND THE INLET.



"SIZE SHALL BE APPROPRIATE TO CONTAIN ALL LIQUID AND WASTE EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. A FOUR-INCH FREEBOARD MUST BE PROVIDED.

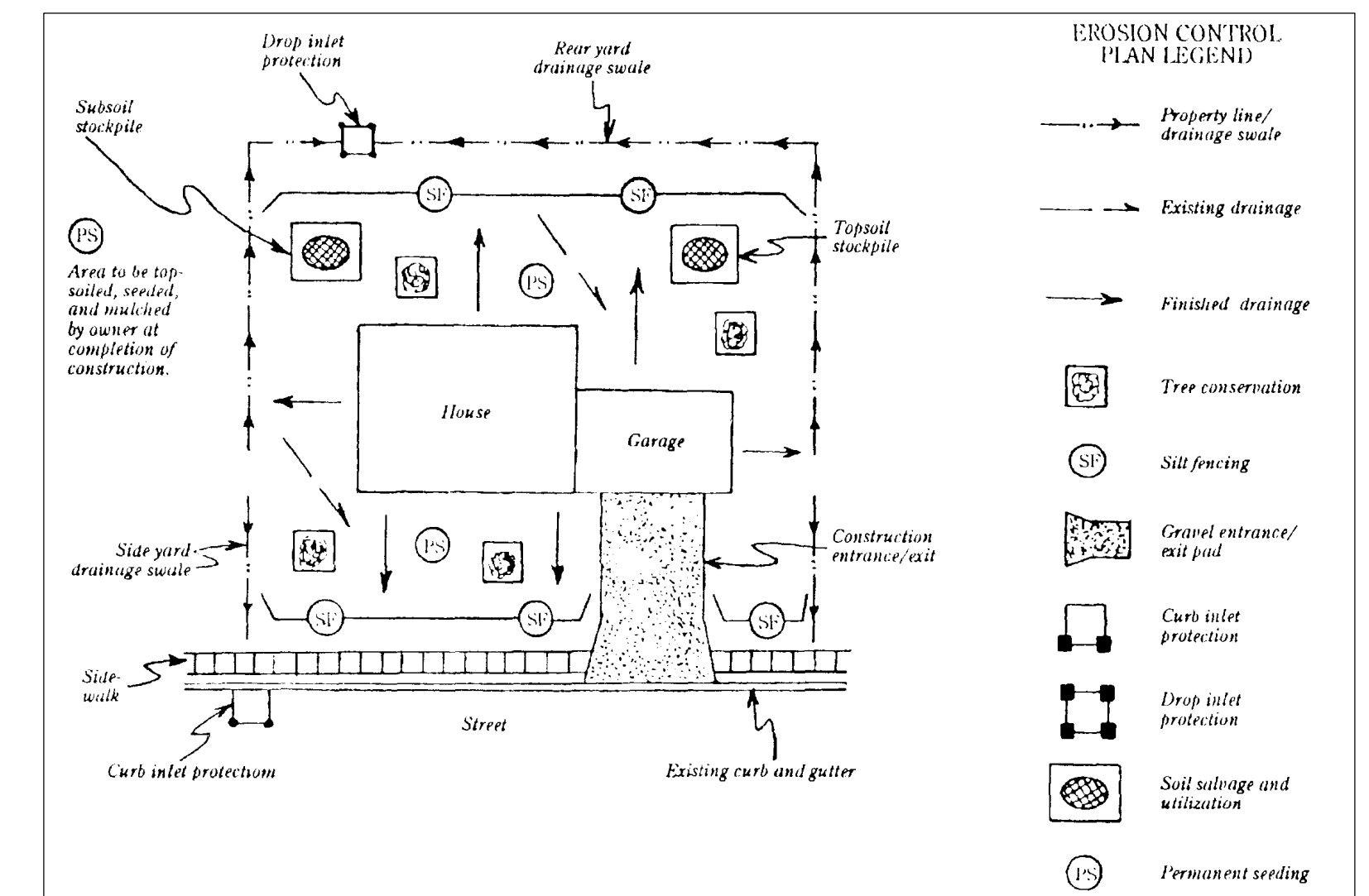
ALTERNATE MATERIALS COULD INCLUDE EARTH BERMS, SANDBAGS, OR OTHER ACCEPTABLE BARRIERS THAT WILL MAINTAIN ITS SHAPE AND SUPPORT THE POLYETHYLENE LINING.

**CONCRETE WASHOUT (ABOVE GRADE SYSTEM) WORKSHEET**

**CONCRETE WASHOUT NOTES INCLUDING MAINTENANCE AND REMOVAL PROCEDURES:**

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
3. THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY AND REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
4. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
5. WHEN THE CONCRETE WASHOUT IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE INSPECTOR.
6. AS AN ALTERNATIVE, A PREFABRICATED WASHOUT SYSTEM CONTAINER COULD BE UTILIZED.

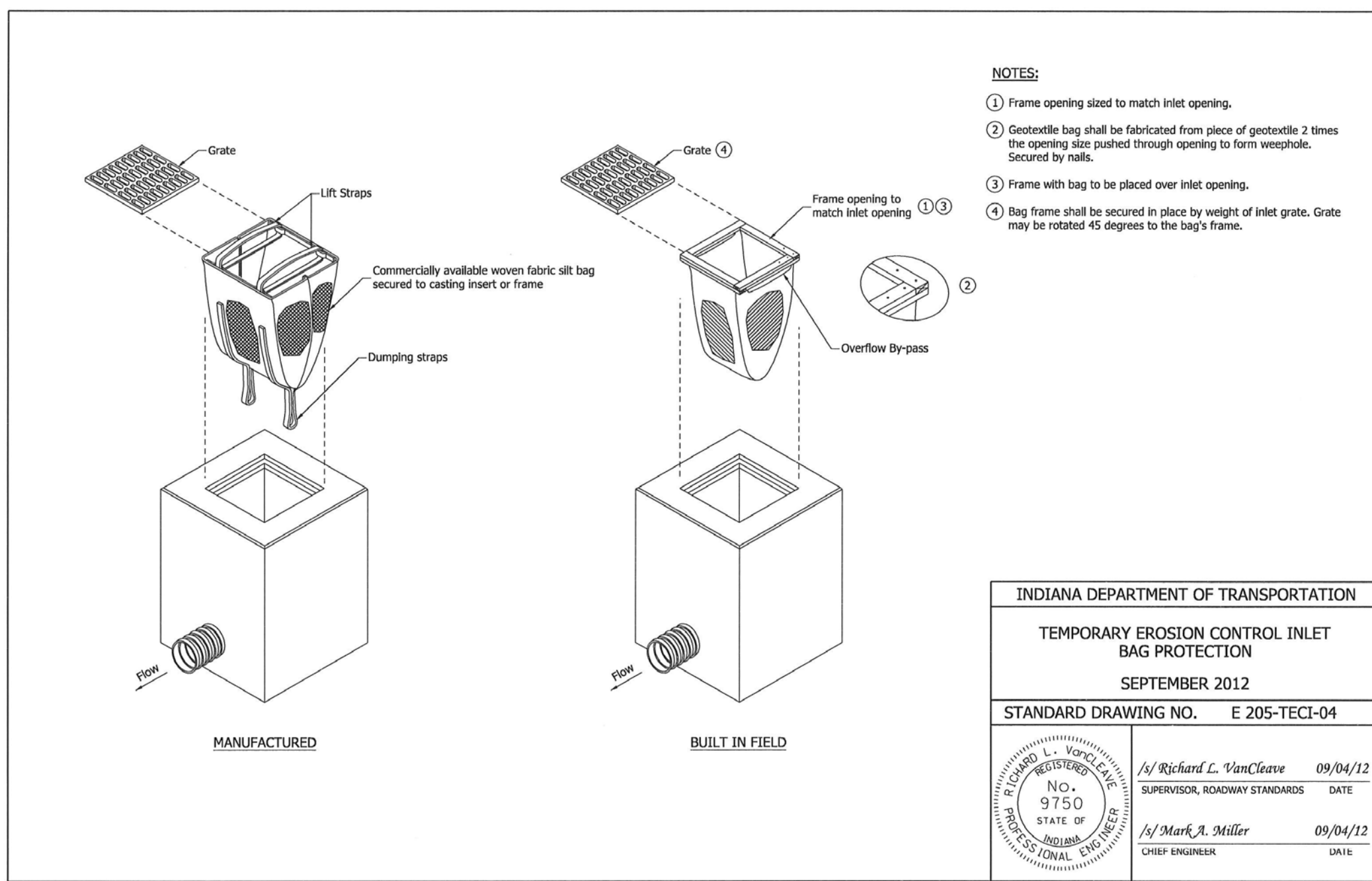
**CONCRETE WASHOUT DETAIL**



**LOT EROSION CONTROL PLAN NOTES:**

1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND CONTRACTOR TO COMPLY WITH STATE LAWS AND COUNTY ORDINANCES REGARDING CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL.
2. THIS IS ONLY A SAMPLE PLAN AND IS NOT INTENDED TO BE ALL INCLUSIVE OR ADDRESS EVERY SITUATION. ADDITIONAL OR MODIFIED PRACTICES MAY BE REQUIRED ON SOME SITES.
3. EROSION OR SEDIMENT CONTROL MEASURES MUST BE FUNCTIONAL AND MAINTAINED THROUGHOUT CONSTRUCTION.
4. MAINTAIN POSITIVE DRAINAGE AWAY FROM THE STRUCTURES.

**TYPICAL LOT EROSION CONTROL PLAN**



**EROSION CONTROL MAINTENANCE AND REMOVAL PROCEDURES:**

**DUST CONTROL**

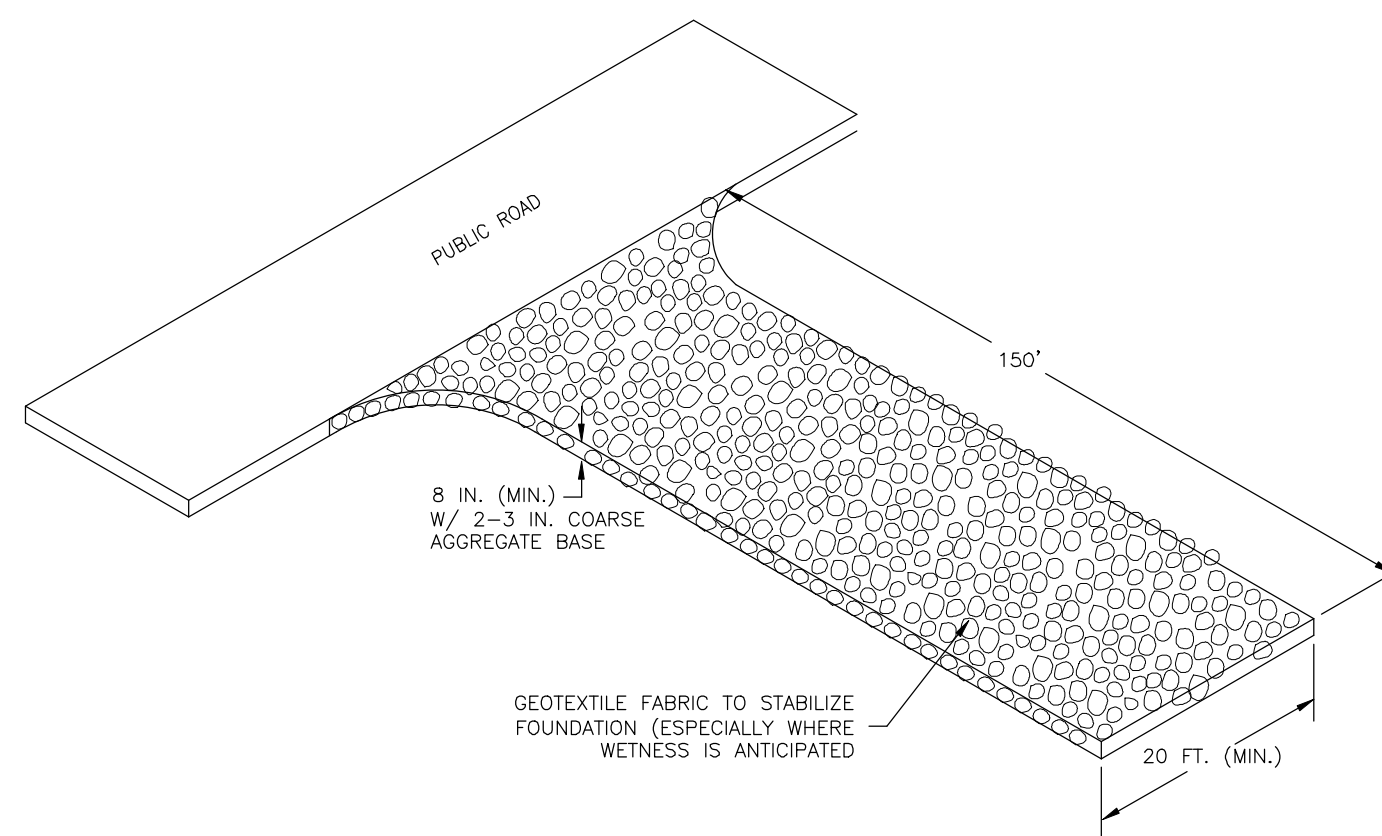
DUST CONTROL MEASURES ARE TO BE USED DURING ALL PHASES OF CONSTRUCTION. WATER MAY BE USED AS A DUST CONTROL AGENT, HOWEVER, IF THIS IS NOT EFFECTIVE ON THE SITE, USE AN ENVIRONMENTALLY FRIENDLY CHEMICAL AGENT SUCH AS A POLYMER EMULSION LIKE DIRT GLUE, (TRADE NAME). DO NOT USE SODIUM CHLORIDE. ALL DUST CONTROL AGENTS MUST BE RATED SAFE TO USE IN WETLAND AREAS REGARDLESS OF THE SITE LOCATION.

**SILT FENCE**

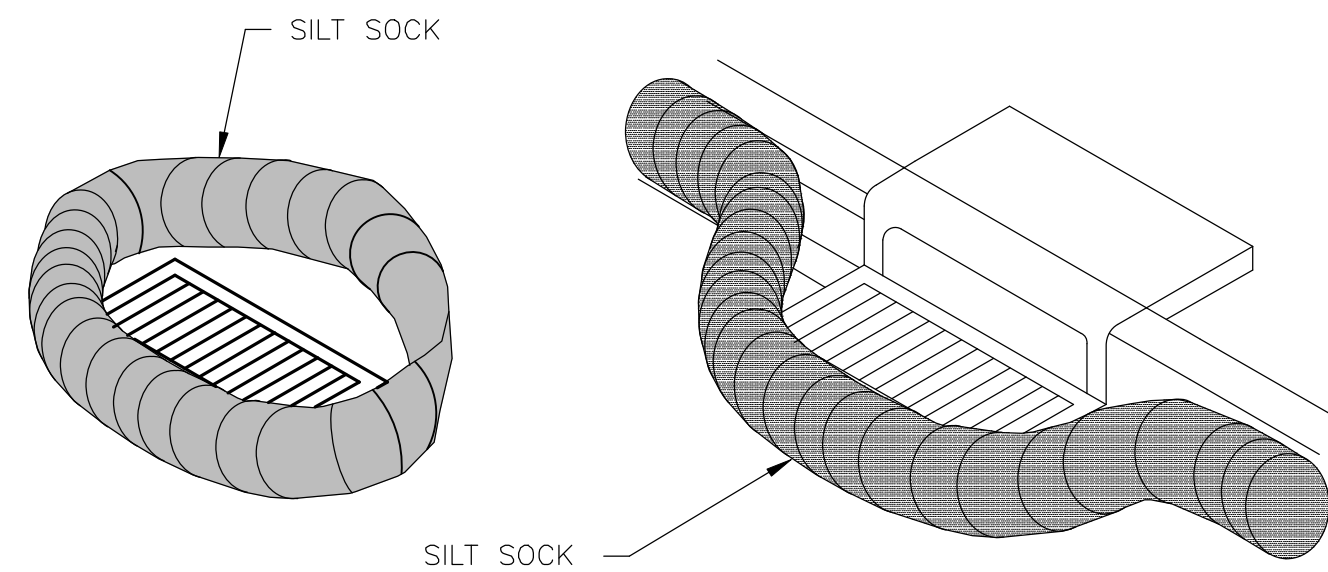
INSPECT THE SILT FENCE FOR STORM WATER POLLUTION PREVENTION DEFICIENCIES DAILY, AND WITHIN 24 HOURS AFTER A MEASURABLE STORM EVENT. IF THE FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. REMOVE ANY DEPOSITED SEDIMENT WHEN IT REACHES THE HALF HEIGHT OF THE FENCES AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

**INLET PROTECTION**

INSPECT THE SILT SOCKS & INLET BAG INSERTS FOR STORM WATER POLLUTION PREVENTION DEFICIENCIES DAILY, AND WITHIN 24 HOURS AFTER A MEASURABLE STORM EVENT. IF THE SILT SOCKS START TO DECOMPOSE, OR IN ANY WAY BECOME INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. IF THE INLET BAGS SHOW ANY INDICATION OF DAMAGE THEY SHOULD BE REPLACED IMMEDIATELY.



**STONE ENTRANCE DETAIL**



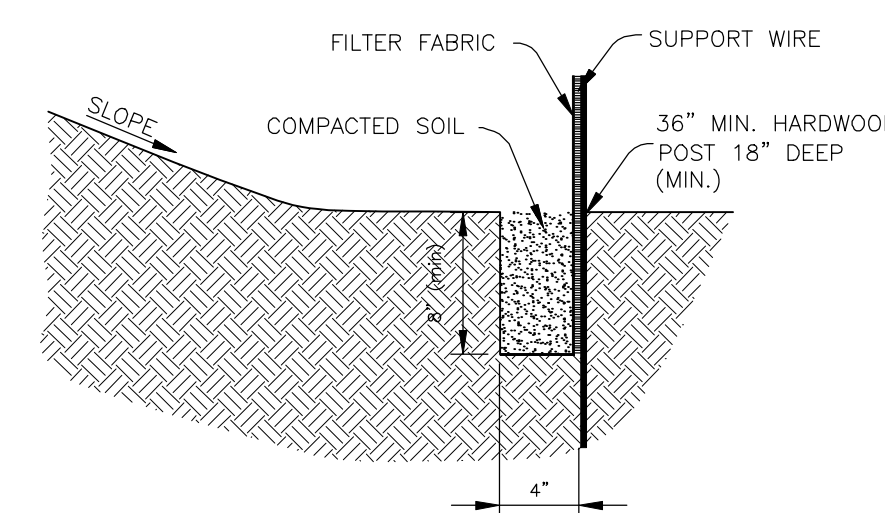
**SILT SOCK INLET PROTECTION DETAIL**

**SILT SOCK INLET PROTECTION**

A SILT SOCK CONSISTING OF AN 8" OR 12" DIAMETER SILT SOCKS INSTALLED IN 16 TO 25 FOOT LENGTHS OR AROUND INLET/ CB. THE SILT SOCKS SHALL CONSIST OF TUBULAR-SHAPED MATERIAL COMPRISED OF A FABRIC EXTERIOR STUFFED WITH WOOD CHIPS. THE WOOD MULCH USED IN THE SOCKS MUST BE ENVIRONMENTALLY SAFE MATERIALS.

**INSTALLATION PROCEDURE**

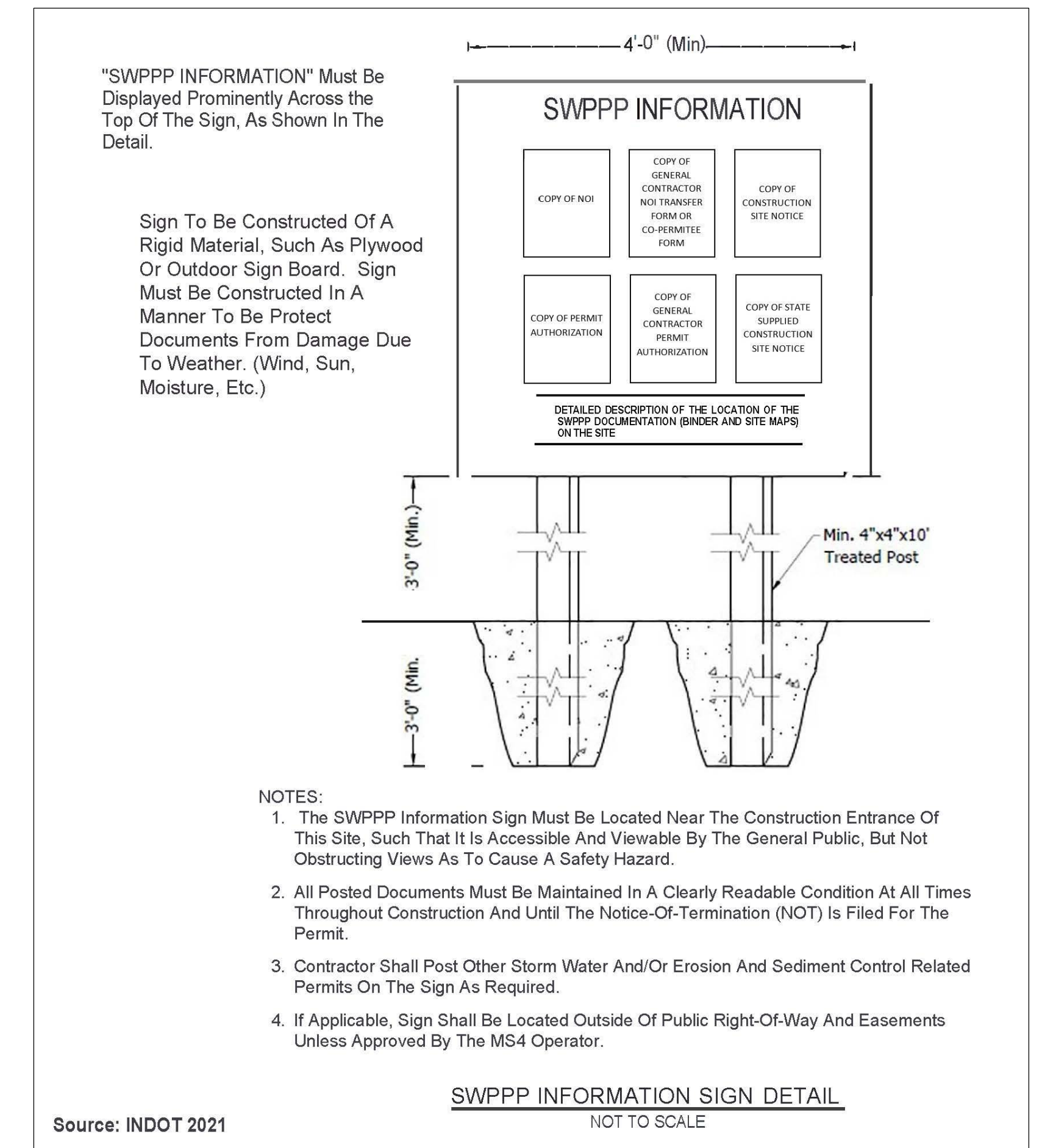
THE SILT SOCK IS TO BE LAID ON TOP OF THE GROUND AROUND THE INLET/CATCH BASIN TO PROVIDE PROTECTION AROUND THE INLET. THE FIRST WATER TO CONTACT THE SOCK IS INTENDED TO BE ABSORBED TO HOLD THE SOCK IN PLACE. WHEN THE CONTRIBUTING AREA HAS BEEN STABILIZED REMOVE THE SILT SOCK PER THE MANUFACTURER'S RECOMMENDATIONS AND DISPOSE OF PROPERLY. SILT SOCKS PLACED AROUND AN INLET MUST BE USED IN COMBINATION WITH WOVEN INLET SILT BAGS.



**SILT FENCE DETAIL**

**SILT FENCE NOTES:**

- 1.) PLAN FOR THE FENCE TO BE AT LEAST 10' FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
- 2.) PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.
- 3.) DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL FROM A 2-YEAR FREQUENCY, 24-HOUR DURATION STORM EVENT).

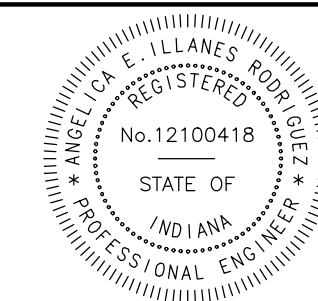


Source: INDOT 2021

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com



DRAWN: TWE	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: TWE	APPR'VD: CLR	Δ				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: N/A						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE

**HUNTER WOODS**  
**EROSION CONTROL PLAN**

INDIANA

SHEET C-46
PROJECT NUMBER 3139
DRAWING NUMBER 3139.000.46



**PLAN NARRATIVE**

**A. Site Description:**

Hunter Woods comprises 13 lots (R1C), 29 lots (R2B), and 52 Units (R3A). Construction activity consists of grading, sanitary sewer construction, storm sewer, water, roadway construction, and associated site restoration work.

**B. Phasing of Construction:**

The sequence of construction should commence in the following order: NO MASS GRADING WILL BE ALLOWED.

1. Post storm water pollution prevention plan.
2. Establish ingress/egress construction entrances for the site.
3. Install silt fence.
4. Install protection measures for existing utilities.
5. Establish location of stockpile and install silt fence around stockpile.
6. Begin self monitoring program.
7. Clear swale before building subdivision. Clear from southwest property corner up to proposed pond outlet.
8. Clear site in proposed areas of construction only.
9. Begin grading of site. This includes creating the ponds and swales.
10. Install concrete washout.
11. Install utilities including sanitary sewers, water, lighting, and storm sewers. Storm utility also includes the outfall pipe. The lift station/force main is included with the sanitary utility installation.
12. Install protection measures for new utilities. This includes the protection for the outfall pipe.
13. Construct roads including curbs.
14. Temporary seed as required. This is intended to occur on the disturbed areas which are to remain untouched for a period of 7 days.
15. Final grading of site.
16. Permanent seeding stabilization.
17. Each builder will be responsible for erosion control measures for the individual lots.
18. Removal and proper disposal of temporary erosion control measures when 70% of permanent stabilization is achieved.

**C. Existing Site Conditions:**

The site is currently a vacant grassed area. The southern portion of the site is wooded and wetland.

**D. Erosion /Sediment Control Measures:**

Erosion and Sediment Controls

Clearing and grubbing operations are limited to construction areas shown on the plan. Areas outside of the limits will be left in their natural state which will provide a physical barrier for any discharges of sediment from the site. Upon completion of construction, sod or permanent seeding will be placed at all unvegetated areas.

Other Controls:

None anticipated.

Self-monitoring Program:

1. Self-monitoring reports shall be submitted to the City of La Porte's MS4 coordinator on a weekly basis and after every measurable storm event.
2. The self-monitoring forms shall be kept in a binder and be made available at the request of town personnel.
3. Equipment shall be routinely inspected. See the maintenance section for each erosion protection measure for more information.

SWPPP IMPLEMENTATION SEQUENCE:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT, SEDIMENT TRAP AND SWPPP INFORMATION SIGN
2. INSTALL SILT FENCES ON THE SITE (CLEAR ONLY NECESSARY AREAS FOR SILT FENCE INSTALL)
3. INSTALL INLET PROTECTION DEVICES AROUND ALL EXISTING STORM SEWER INLETS PER PLAN
4. PREPARE TEMPORARY PARKING AND STORAGE AREA.
5. BEGIN CLEARING AND GRUBBING THE SITE
6. BEGIN MASS GRADING OF SITE:PHASE SITE AS NEEDED FOR PROPER BALANCING OF CUT AND FILLS.
7. TEMPORARILY SEED WITHIN 7 DAYS
8. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
9. INSTALL UTILITIES, STORM SEWERS, WATERMAIN, SANITARY SEWER, AND CURBS AND GUTTERS.
10. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
11. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
12. PREPARE SITE FOR PAVING AND PAVE SITE
13. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
14. AFTER THE SITE IS FULLY STABILIZED, BEGIN REMOVING ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMP'S
16. CONTINUE DAILY INSPECTIONS UNTIL FINAL INSPECTION TO BE SIGNED BY GC.

Temporary vegetation shall be established for barren areas rough graded but left undisturbed for more than 7 days. Seeding shall be applied according to the following chart depending on the time of year. Fertilizer and mulch are required.

SITE PREPARATION

1. These installation practices are needed to control erosion, sedimentation, and water runoff, such as temporary and permanent diversions, sediment traps or basins, silt fences, and triangular silt dikes.
2. Grade the site as specified in the construction plans. MASS GRADING WILL NOT BE ALLOWED.

SEEDBED PREPARATION

1. Fertilize as required.
2. Work the fertilizer into the soil 2 to 4 inches deep with a disk or rake operated across the slope.

SEEDING

1. Select a seeding mixture and rate from the table and plant at depth and dates shown.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting, firm the seedbed with a roller or cultipacker.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker.
4. Mulch seeded area to increase seeding success.

MAINTENANCE

1. Inspect periodically after planting to see that vegetative stands are adequately established, re-seed if necessary.
2. Check for erosion damage after storm events and repair, reseed and mulch if necessary.
3. Topdress fill seeded wheat or rye seeding with 50 lbs./acres in February or March if nitrogen deficiency is apparent.

Temporary Seeding Recommendations:

Seed species	Rate/acre	Planting depth	Optimum dates
Wheat or rye	150 lbs.	1 to 1 1/2 in.	9/15 to 10/30
Spring oats	100 lbs.	1 in.	3/1 to 4/15
Annual ryegrass	40 lbs.	1/4 in.	3/1 to 5/1 & 8/1 to 9/1
German millet	40 lbs.	1 to 2 in.	5/1 to 6/1
Sudangrass	35 lbs.	1 to 2 in.	5/1 to 7/30

Permanent seeding:

Disturbed areas which are at finish grade shall be permanently seeded within seven (7) days. Use a perennial ryegrass mixtures chosen for slope characteristics from the following list. Fertilizer and mulch are required.

SITE PREPARATION

1. These installation practices are needed to control erosion, sedimentation, and water runoff, such as temporary and permanent diversions, sediment traps or basins, silt fences, and triangular silt dikes.
2. Grade the site as specified in the construction plans. MASS GRADING WILL NOT BE ALLOWED.
3. Add topsoil to achieve needed depth for establishment of vegetation.

SEEDBED PREPARATION

1. Fertilize as required.
2. Work the fertilizer into the soil 2 to 4 inches deep with a disk or rake operated across the slope.

SEEDING

Optimum seeding dates are March 1 – May 10 and August 10 – September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. As an alternative, use temporary seeding until the preferred date for permanent seeding.

1. Select a seeding mixture and rate from the table and plant at depth and dates shown.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting, firm the seedbed with a roller or cultipacker.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker.
4. Mulch seeded area to increase seeding success. Use erosion control blankets on sloping areas. If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.

MAINTENANCE

1. Inspect periodically after planting to see that vegetative stands are adequately established, re-seed if necessary.
2. Check for erosion damage after storm events and repair, reseed and mulch if necessary.

**OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)**

Seed Species & Mixtures	Rate/Acre	Optimum Soil pH
1. Perennial ryegrass + white clover*	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass** + tall fescue**	70 lbs. 50 lbs.	5.6 to 7.0

**STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS ( NOT MOWED)**

1. Orchardgrass + red clover* + white clover*	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
2. Tall fescue** + red clover*	50 lbs. 20 lbs.	5.5 to 7.5

**LAWNS AND HIGH MAINTENANCE AREAS**

1. Perennial ryegrass (turf-type)** + bluegrass	170 lbs. 30 lbs.	5.6 to 7.5
--	---------------------	------------

**CHANNELS AND AREAS OF CONCENTRATED FLOW**

1. Perennial ryegrass + white clover*	150 lbs. 2 lbs.	5.5 to 7.0
2. Tall fescue** + Perennial ryegrass + Kentucky bluegrass	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

\* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded; and (c) if legumes are fall-seeded, do so in early fall.

\*\* Tall fescue provides little cover for, and may be toxic to, some species of wildlife. The IDNR recognizes the need for additional research on alternatives to tall fescue, such as buffalograss, orchardgrass, smooth brome grass, and switch-grass. This research, in conjunction with demonstration areas, should focus on erosion control characteristics, wildlife toxicity, turf durability, and drought resistance.

A project site owner shall meet the following requirements, at a minimum:

1. Sediment-laden water flowing from the project site shall be treated by erosion and sediment control measures appropriate to minimize sedimentation;
2. Appropriate measures shall be implemented to minimize or eliminate wastes or unused building materials, including garbage, debris, cleaning wastes, wastewater, concrete truck washout and other substances from being carried from a project site by run-off or wind. Identification of areas where concrete truck washout is permissible must be clearly posted at appropriate areas of the site. Wastes and unused building materials shall be managed and disposed of in accordance with all applicable statutes and regulations;
3. A stable construction site access shall be provided at all points of construction traffic ingress and egress to the project site;
4. Public or private roadways shall be kept cleared of accumulated sediment that is a result of run-off or tracking. Bulk clearing of sediment shall not include flushing the area with water. Cleared sediment shall be redistributed or disposed of in a manner that is in accordance with all applicable statutes and regulations;
5. Storm water run-off leaving a project site must be discharged in a manner that is consistent with town code and all applicable state or federal laws;
6. The project site owner shall post a notice near the main entrance of the project site. For linear project sites, such as a pipeline or highway, the notice must be placed in a publicly accessible location near the project field office. The notice must be maintained in a legible condition and contain the following information:
  - A. A copy of the valid erosion and sediment control permit and any applicable NPDES permit number;
  - B. The name, company name, telephone number, e-mail address (if available) and address of the project site owner, or a local contact person; and
  - C. The location of the construction plan, if the project site does not have an on-site location to store and keep a copy of the plan.
7. The construction plan/SWPPP shall serve as a guideline for storm water quality, but should not be interpreted to be the only basis for implementation of storm water quality measures for a project site. The project site owner is responsible for implementing, in accordance with this rule, all measures necessary to adequately prevent polluted storm water run-off;
8. The project site owner shall inform all general contractors, construction management firms, grading or excavating contractors, utility contractors and the contractors that have primary oversight on individual building lots of the terms and conditions of this rule and the conditions and standards of the construction plan/SWPPP and the schedule for proposed implementation;
9. Phasing of construction activities shall be used, where possible, to minimize disturbance of large areas;
10. Appropriate measures shall be planned and installed as part of an erosion and sediment control system;
11. All storm water quality measures must be designed and installed under the guidance of a trained individual;
12. Sediment control measures for sheet flow areas;
13. Sediment control measures for concentrated flow areas;
14. Sediment control measures for storm sewer inlet protection;
15. Run-off control measures (e.g., diversions, rock check dams, slope drains and the like);
16. Storm water outlet protection specifications;
17. Grade stabilization structure locations and specifications;
18. Sediment control associated with dewatering and directional boring operations;
19. Erosion and sediment control provisions for stream/channel crossings;
20. Collected run-off leaving a project site must be either discharged directly into a well-defined, stable receiving channel or diffused and released to adjacent property without causing an erosion or pollutant problem to the adjacent property owner;
21. Drainage channels and swales must be designed and adequately protected so that their final gradients and resultant velocities will not cause erosion in the receiving channel or at the outlet;
22. Natural features, including wetlands and sinkholes, shall be protected from pollutants associated with storm water run-off;
23. Un-vegetated areas that are scheduled or likely to be left inactive for 15 calendar days or more must be temporarily or permanently stabilized with measures appropriate for the season to minimize erosion potential. Alternative measures to site stabilization are acceptable if the project site owner or his, her or their representative can demonstrate they have implemented erosion and sediment control measures adequate to prevent sediment discharge. Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the erosion potential;
24. During the period of construction activities, all storm water quality measures necessary to meet the requirements of this article shall be maintained in working order;
25. A self-monitoring program that contains all requirements in § 24-58 of this chapter;
26. Proper storage and handling of materials, such as fuels or hazardous wastes, and spill prevention and clean-up measures shall be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality; and
27. Achieve final stabilization.

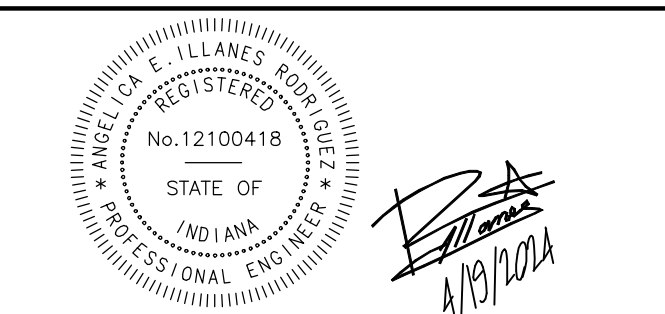
Individual building lots within a permitted project shall meet the following requirements:

1. Erosion and sediment control requirements associated with activities on individual lots.
2. Installation and maintenance of a stable construction site access.
3. Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance.
4. Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization has been achieved.
5. Clean-up of sediment that is either tracked or washed onto roads. Bulk clearing of sediment shall not include flushing the area with water. Cleared sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules.
6. Erosion and sediment control specifications for individual building lots.
7. Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with temporary or permanent surface stabilization.
8. Each individual residential lot shall meet the criteria for final stabilization.

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL dgi@dunelandgroup.com



DRAWN:	CHK'D:	NO.	REVISION	BY	DATE	STORM
TWE	SCC					SANITARY
DESIGNED: TWE	APPRVD: CLR	△				WATER
DATE: 4/19/2024						ROAD
HORIZ. SCALE: N/A						EROSION
VERT. SCALE: N/A						
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**

**EROSION CONTROL PLAN**

SHEET C-47

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.47





**Mirafi® FW402**

Mirafi® FW402 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi® FW402 geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). [NTPPEP Listed](#)

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	365 (1624)	200 (890)
Grab Tensile Elongation	ASTM D4632	%	24	10
Trapezoid Tear Strength	ASTM D4533	lbs (N)	115 (512)	75 (334)
CBR Puncture Strength	ASTM D6241	lbs (N)	675 (3004)	
			Minimum Roll Value	
Percent Open Area	COE-02215	%	10	
Permittivity	ASTM D4491	sec <sup>-1</sup>	2.1	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	145 (5907)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Physical Properties	Unit	Roll Size
Roll Dimensions (width x length)	ft (m)	12.5 x 300 (3.8 x 91)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	417 (348)

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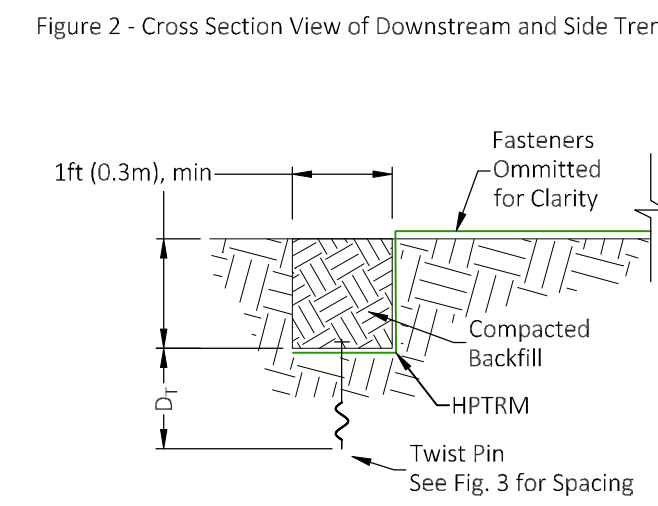
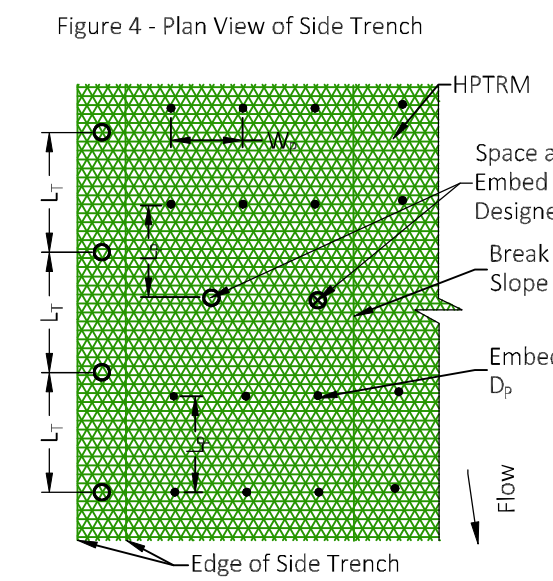
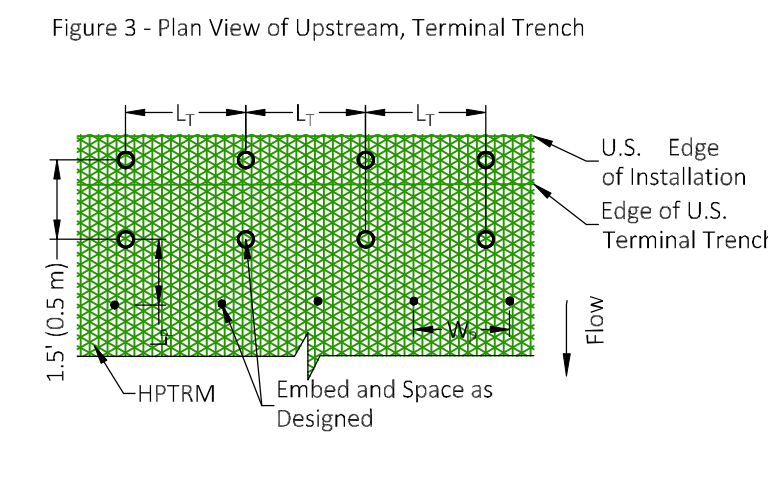
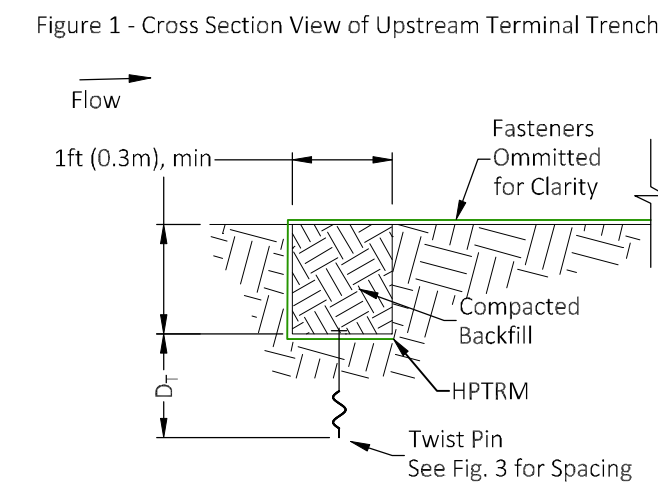
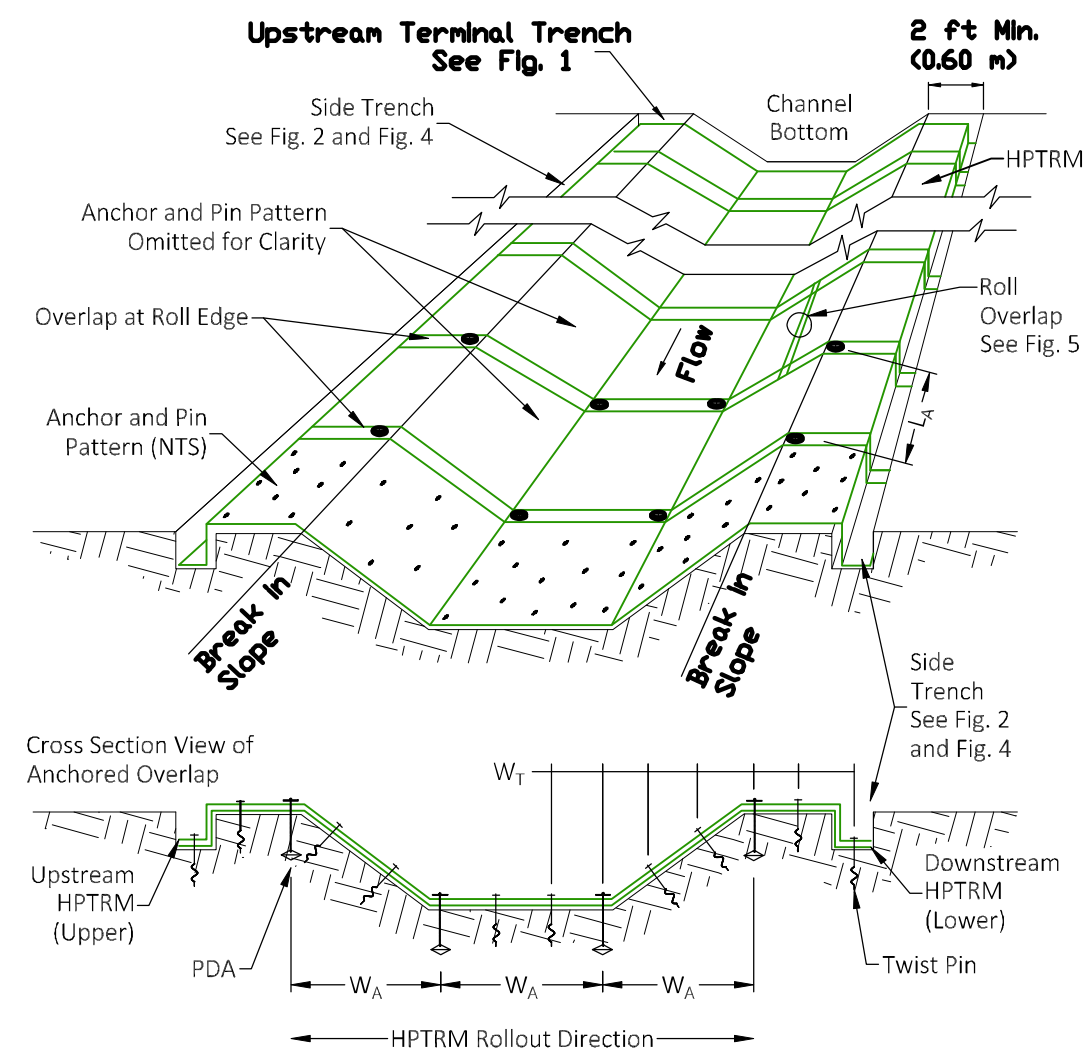
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365 South Holland Drive  
Pendergrass, GA 30967  
Tel: 706 893 2220  
Tel: 898 796 0908  
Fax: 706 893 4400  
www.tencate.com



GEOTEXTILE FILTER FABRIC SPECIFICATION



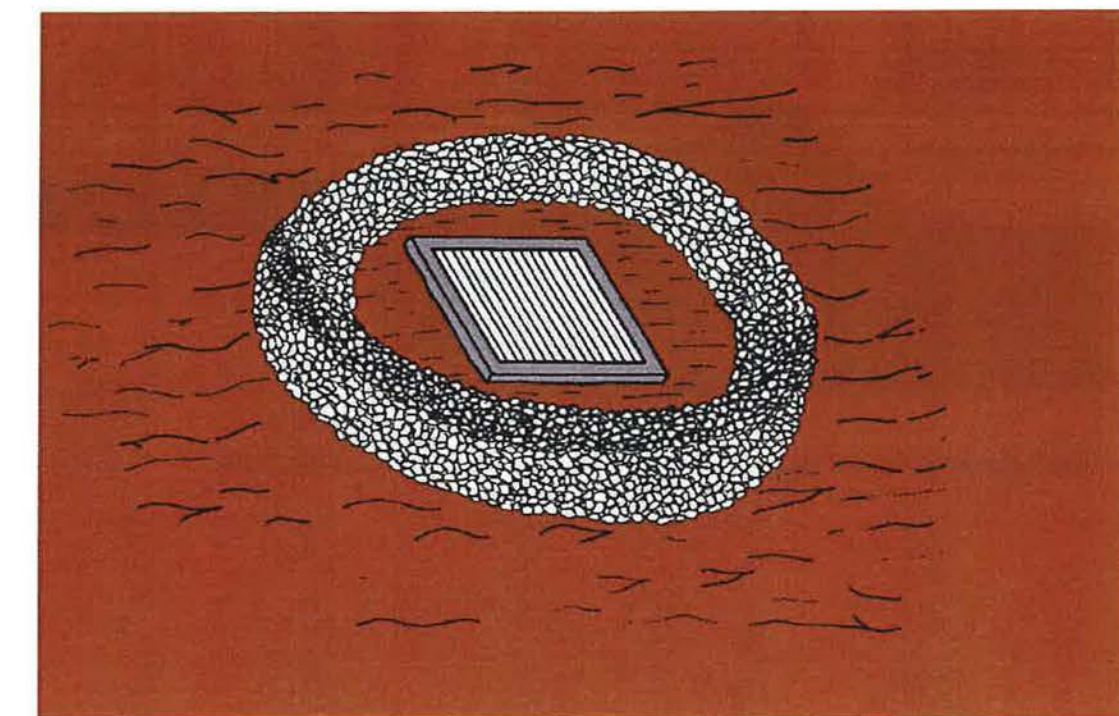
- \*Notes:**
- Drawings not to scale. Spacing exaggerated, vegetation omitted and some fasteners excluded for clarity.
  - Secure anchors at top and toe of bank at each seam overlap (shingled in the direction of flow).  $W_A$  shall not exceed spacing design dimension (Table 1), secure additional anchors along bottom of channel and between top and toe to meet spacing design dimension. Secure Twist Pins in side trenches and between anchors to meet spacing design dimension,  $W_T$ .
  - If roll width exceeds spacing design dimension ( $L_A$ ), add identical, parallel row of anchors and pins to reduce distance between rows, equal to or less than spacing design dimension. Embed all anchors to design depth,  $D_A$ .
  - Secure trenches as indicated, with Twist Pins to meet the minimum design depth,  $D_T$ . Twist Pins in trench not to exceed spacing,  $L_T$ .
  - TL-TA1 Twist Pins are specified, however TL-TA2 pins may be substituted, based on in-situ soil conditions, with no change in length.
  - Add tie-down pins through the body of the installation (between anchor rows) to meet the spacing design requirements (Figure 4).

Configuration	TERMS-110	
HPTRM	TMAX	
Fastener Type	Dimension	Value
	$W_A$ (Max)	5.0' (1.5 m)
	$L_A$ (Max)	5.0' (1.5 m)
PDA	$D_A$ (Min)	3.0' (0.9 m)
	$W_T$ (Max)	20' (6.1 m)
	$D_T$ (Min)	1.5' (0.5 m)
Twist Pin	$L_T$ (Max)	8" (22 cm)
	$W_T$ (Max)	20' (6.1 m)
	$D_T$ (Min)	1.2' (36 cm)
Steel Pin	$L_T$ (Max)	20' (6.1 m)
	$W_T$ (Max)	20' (6.1 m)
	$D_T$ (Min)	1.2' (36 cm)

TMAX HIGH-PERFORMANCE TURF REINFORCEMENT MAT – CHANNEL DETAIL

GRAVEL DONUT DROP INLET PROTECTION

Exhibit 1



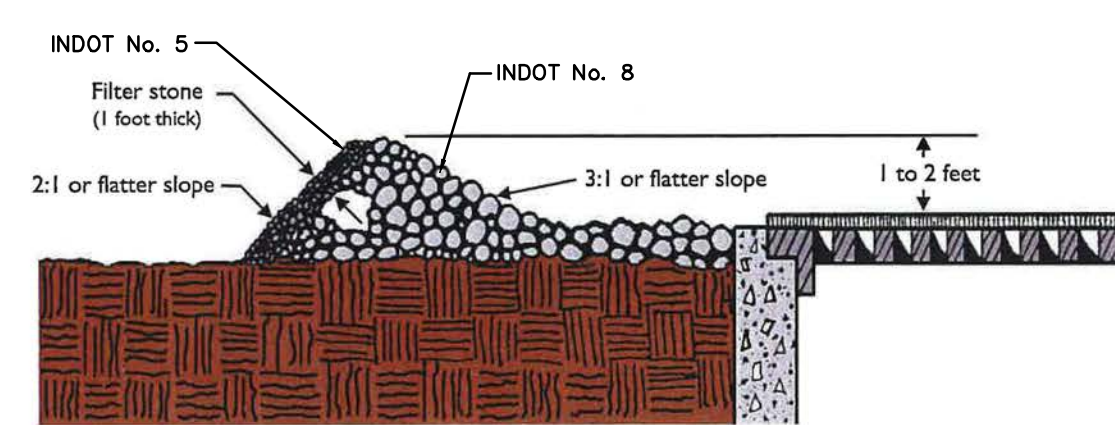
October 2007

Chapter 7

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GRAVEL DONUT DROP INLET PROTECTION

Exhibit 2



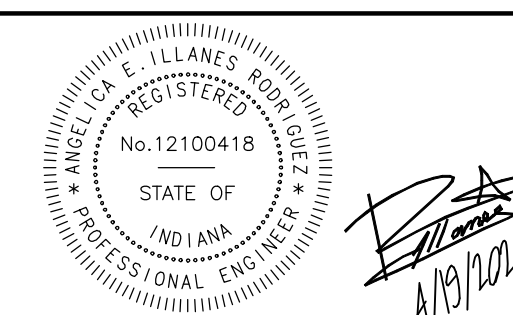
Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

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Chapter 7

October 2007

DRAWN:	CHK'D:	NO.	REVISION	BY	DATE	STORM
SCC	SCC					
DESIGNED: TWE	APPRVD: CLR					SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=30'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE

HUNTER WOODS  
EROSION CONTROL PLAN

INDIANA

SHEET C-48

PROJECT NUMBER 3139

DRAWING NUMBER

3139.000.48



Specification Sheet  
**TMax™ High-Performance Turf Reinforcement Mat**

DESCRIPTION

The TMax™ high-performance turf reinforcement mat (HP-TRM) shall be a machine-produced mat of 100% UV-stabilized, high denier polypropylene monofilament yarns woven into permanent, high-strength, three-dimensional turf reinforcement matting. Available in either a green/black or a tan/black coloring, the mat shall be composed of polypropylene yarns woven into a uniform configuration of resilient, pyramid-like projections. The mat provides sufficient thickness, optimum open area, and three-dimensionality for effective erosion control and vegetation reinforcement against high flow induced shear forces. The mat has high tensile strength for excellent damage resistance and for increasing the bearing capacity of vegetated soils subject to heavy loads from maintenance equipment and other vehicular traffic. The material has very high interlock and reinforcement capacities with both soil and root systems, and is designed for erosion control applications on steep slopes and vegetated waterways.

Material Content

100% UV stable Polypropylene Monofilament yarns

Woven Structure	Black/Green or Black/Tan
Width	11.5 ft (3.5 m)
Length	78 ft (23.8 m)
Weight ± 10%	72 lbs (32.7 kg)
Area	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )

**Standard Roll Sizes**

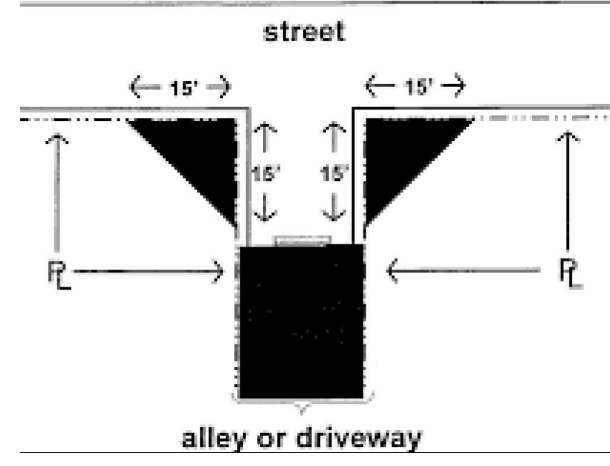
Width	11.5 ft (3.5 m)	11.5 ft (3.5 m)
Length	78 ft (23.8 m)	156 ft (47.5 m)
Weight ± 10%	72 lbs (32.7 kg)	143.5 lbs (65.1 kg)
Area	100 yd <sup>2</sup> (83.6 m <sup>2</sup> )	200 yd <sup>2</sup> (167 m <sup>2</sup> )

**North American Green**  
Western Green  
4609 E. Boonville-New Harmony Rd.  
Evansville, IN 47725  
nagreen.com  
800-772-2040

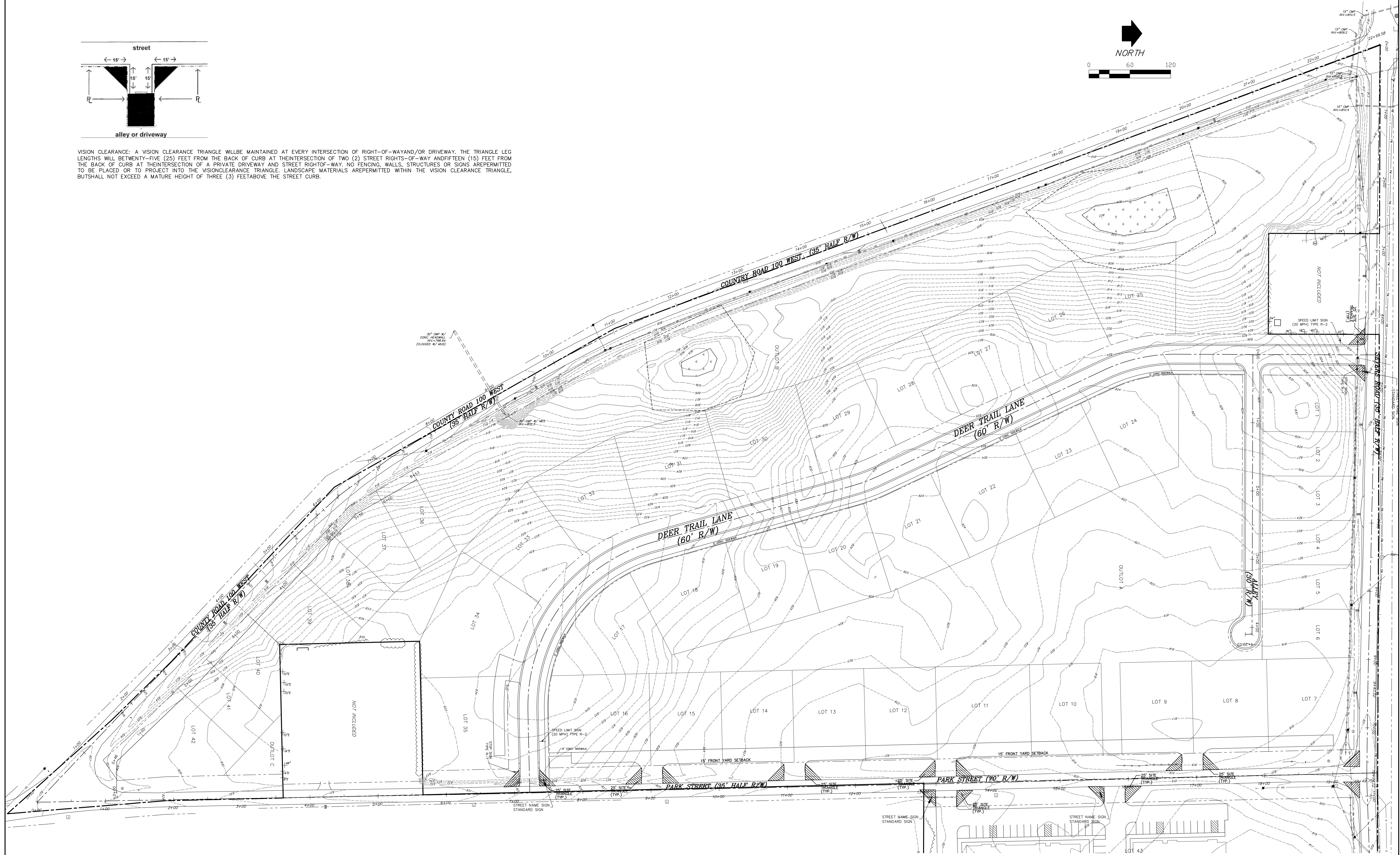
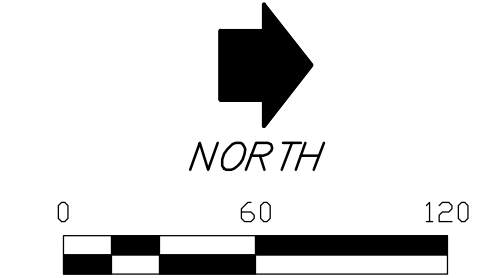
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RMX\_MP05\_TMAX\_139





VISION CLEARANCE: A VISION CLEARANCE TRIANGLE WILL BE MAINTAINED AT EVERY INTERSECTION OF RIGHT-OF-WAY AND/OR DRIVEWAY. THE TRIANGLE LEG LENGTHS WILL BE TWENTY-FIVE (25) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF TWO (2) STREET RIGHTS-OF-WAY AND FIFTEEN (15) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF A PRIVATE DRIVEWAY AND STREET RIGHT-OF-WAY. NO FENCING, WALLS, STRUCTURES OR SIGNS ARE PERMITTED TO BE PLACED OR TO PROJECT INTO THE VISION CLEARANCE TRIANGLE. LANDSCAPE MATERIALS ARE PERMITTED WITHIN THE VISION CLEARANCE TRIANGLE, BUT SHALL NOT EXCEED A MATURE HEIGHT OF THREE (3) FEET ABOVE THE STREET CURB.



1. STOP SIGNS, STREET NAMES, AND SPEED LIMIT SIGNS ARE TO BE VERIFIED BY THE CITY OF LA PORTE.

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
CHESTERTON, INDIANA 46304  
Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com

NO.	REVISION	BY	DATE	STORM
DESIGNED: SCC	CHK'D: SCC			
DESIGNED: AIR	APPRVD: CLR			SANITARY
DATE: 4/19/2024				WATER
HORIZ. SCALE: 1"=30'				ROAD
VERT. SCALE: 1"=3'				EROSION
PROJECT STATUS				
PRELIMINARY				

CITY OF LA PORTE INDIANA

**HUNTER WOODS**

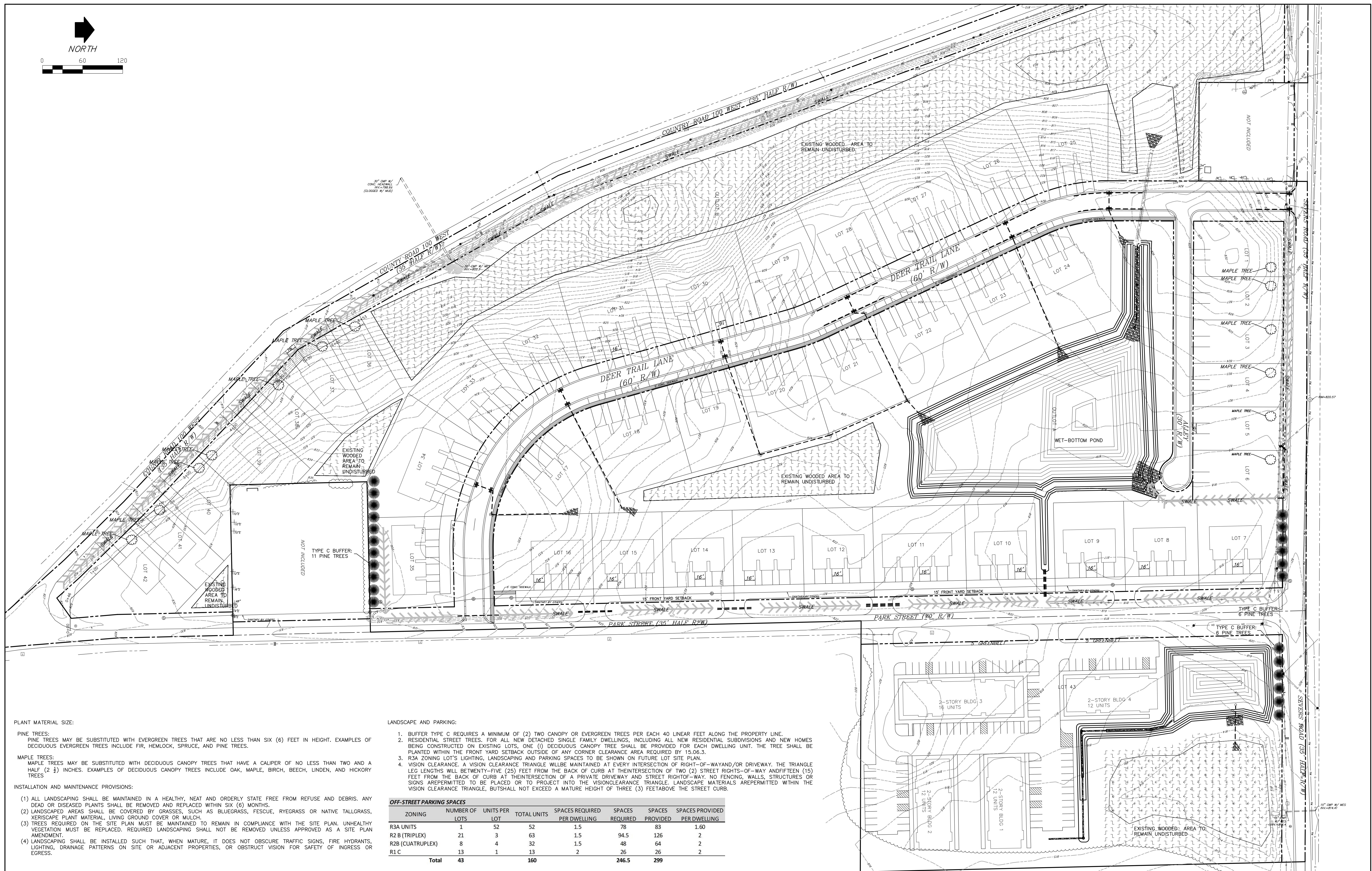
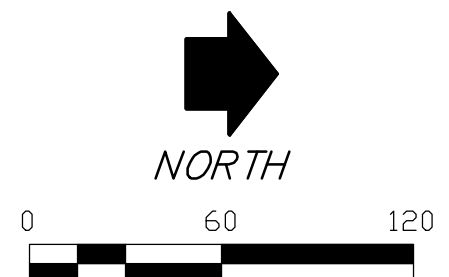
**SIGN PLACEMENT/ VISION CLEARANCE**

SHEET C-49

PROJECT NUMBER 3139

DRAWING NUMBER 3139.000.49





**PLANT MATERIAL SIZE:**

**PINE TREES:**  
PINE TREES MAY BE SUBSTITUTED WITH EVERGREEN TREES THAT ARE NO LESS THAN SIX (6) FEET IN HEIGHT. EXAMPLES OF DECIDUOUS EVERGREEN TREES INCLUDE FIR, HEMLOCK, SPRUCE, AND PINE TREES.

**MAPLE TREES:**  
MAPLE TREES MAY BE SUBSTITUTED WITH DECIDUOUS CANOPY TREES THAT HAVE A CALIPER OF NO LESS THAN TWO AND A HALF (2 1/2) INCHES. EXAMPLES OF DECIDUOUS CANOPY TREES INCLUDE OAK, MAPLE, BIRCH, BEECH, LINDEN, AND HICKORY TREES

**INSTALLATION AND MAINTENANCE PROVISIONS:**

- (1) ALL LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY, NEAT AND ORDERLY STATE FREE FROM REFUSE AND DEBRIS. ANY DEAD OR DISEASED PLANTS SHALL BE REMOVED AND REPLACED WITHIN SIX (6) MONTHS.
- (2) LANDSCAPED AREAS SHALL BE COVERED BY GRASSES, SUCH AS BLUEGRASS, FESCUE, RYEGRASS OR NATIVE TALLGRASS, XERISCAPE PLANT MATERIAL, LIVING GROUND COVER OR MULCH.
- (3) TREES REQUIRED ON THE SITE PLAN MUST BE MAINTAINED TO REMAIN IN COMPLIANCE WITH THE SITE PLAN. UNHEALTHY VEGETATION MUST BE REPLACED. REQUIRED LANDSCAPING SHALL NOT BE REMOVED UNLESS APPROVED AS A SITE PLAN AMENDMENT.
- (4) LANDSCAPING SHALL BE INSTALLED SUCH THAT, WHEN MATURE, IT DOES NOT OBSCURE TRAFFIC SIGNS, FIRE HYDRANTS, LIGHTING, DRAINAGE PATTERNS ON SITE OR ADJACENT PROPERTIES, OR OBSTRUCT VISION FOR SAFETY OF INGRESS OR EGRESS.

**LANDSCAPE AND PARKING:**

1. BUFFER TYPE C REQUIRES A MINIMUM OF (2) TWO CANOPY OR EVERGREEN TREES PER EACH 40 LINEAR FEET ALONG THE PROPERTY LINE.
2. RESIDENTIAL STREET TREES, FOR ALL NEW DETACHED SINGLE FAMILY DWELLINGS, INCLUDING ALL NEW RESIDENTIAL SUBDIVISIONS AND NEW HOMES BEING CONSTRUCTED ON EXISTING LOTS, ONE (1) DECIDUOUS CANOPY TREE SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE TREE SHALL BE PLANTED WITHIN THE FRONT YARD SETBACK OUTSIDE OF ANY CORNER CLEARANCE AREA REQUIRED BY 15.06.3.
3. R3A ZONING LOT'S LIGHTING, LANDSCAPING AND PARKING SPACES TO BE SHOWN ON FUTURE LOT SITE PLAN.
4. VISION CLEARANCE. A VISION CLEARANCE TRIANGLE WILL BE MAINTAINED AT EVERY INTERSECTION OF RIGHT-OF-WAY/AND/OR DRIVEWAY. THE TRIANGLE LEG LENGTHS WILL BE TWENTY-FIVE (25) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF TWO (2) STREET RIGHTS-OF-WAY AND FIFTEEN (15) FEET FROM THE BACK OF CURB AT THE INTERSECTION OF A PRIVATE DRIVEWAY AND STREET RIGHT-OF-WAY. NO FENCING, WALLS, STRUCTURES OR SIGNS ARE PERMITTED TO BE PLACED OR TO PROJECT INTO THE VISION CLEARANCE TRIANGLE. LANDSCAPE MATERIALS ARE PERMITTED WITHIN THE VISION CLEARANCE TRIANGLE, BUT SHALL NOT EXCEED A MATURE HEIGHT OF THREE (3) FEET ABOVE THE STREET CURB.

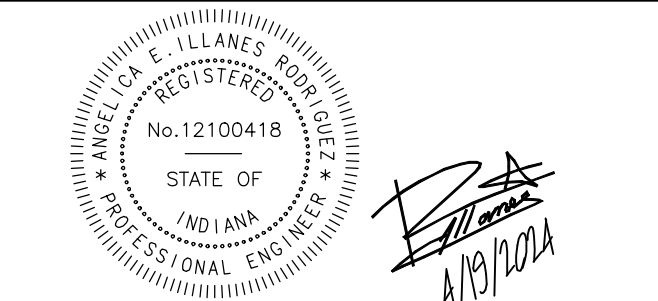
**OFF-STREET PARKING SPACES**

ZONING	NUMBER OF LOTS	UNITS PER LOT	TOTAL UNITS	SPACES REQUIRED PER DWELLING	SPACES REQUIRED	SPACES PROVIDED	SPACES PROVIDED PER DWELLING
R3A UNITS	1	52	52	1.5	78	83	1.60
R2 B (TRIPLEX)	21	3	63	1.5	94.5	126	2
R2B (CUATRIplex)	8	4	32	1.5	48	64	2
R1 C	13	1	13	2	26	26	2
<b>Total</b>	<b>43</b>		<b>160</b>		<b>246.5</b>	<b>299</b>	

**DUNELAND GROUP**  
ENGINEERING & SURVEYING  
1498 POPE COURT  
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Ph: 219-926-1007  
E-MAIL: dgi@dunelandgroup.com



DRAWN: TWE	CHK'D: SCC	NO.	REVISION	BY	DATE	STORM
DESIGNED: TWE	APPR'VD: CLR	Δ				SANITARY
DATE: 4/19/2024						WATER
HORIZ. SCALE: 1"=60'						ROAD
VERT. SCALE: N/A						EROSION
PROJECT STATUS						
PRELIMINARY						



CITY OF LA PORTE INDIANA

**HUNTER WOODS**  
LANDSCAPING PLAN

SHEET C-50  
PROJECT NUMBER 3139  
DRAWING NUMBER 3139.000.50