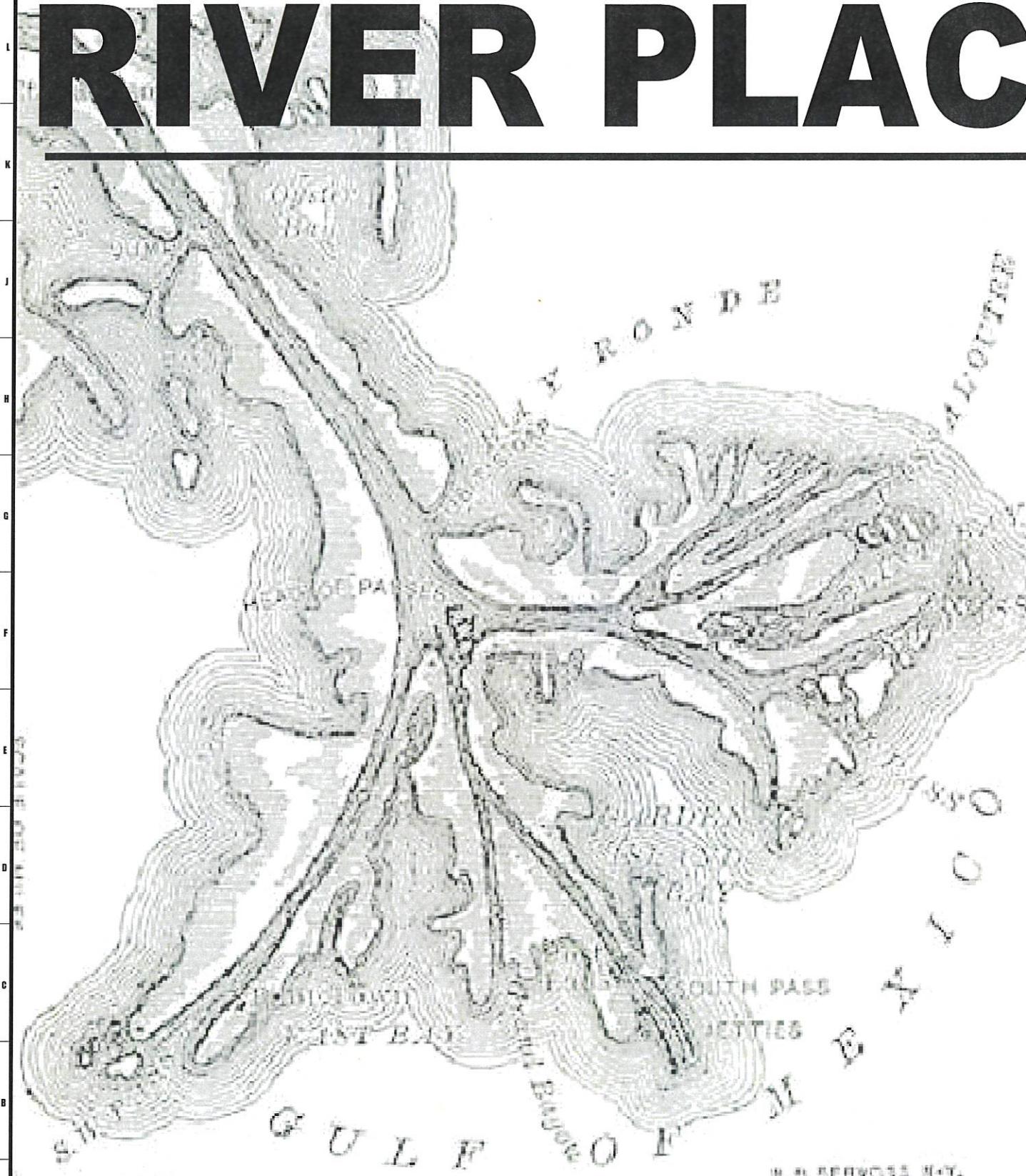


CONSTRUCTION APPROVAL PLANS

The seal is circular with "STATE OF LOUISIANA" at the top and bottom. In the center is a red hand holding a compass over a map of Louisiana. The text "PROFESSIONAL ENGINEER" is around the bottom of the circle, and "PE" is at the bottom right.

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RIVER PLACE ESTATES

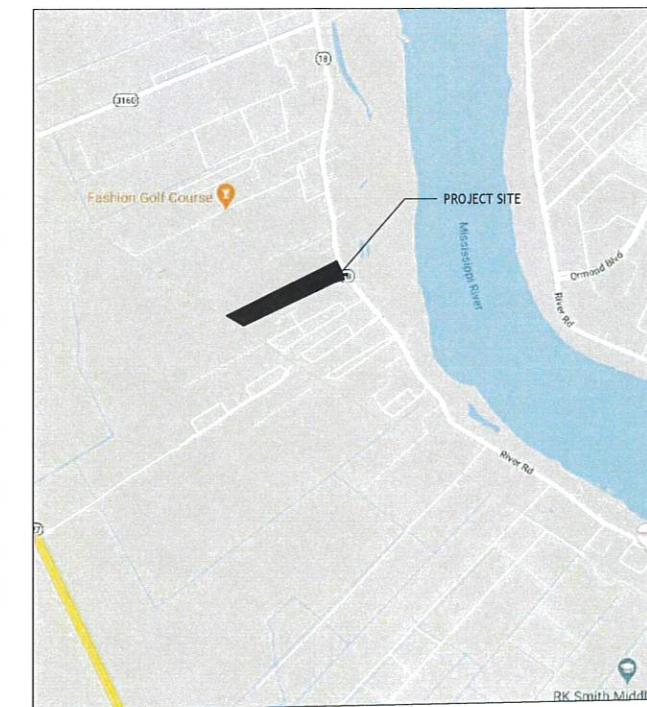


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A-1 SITE PLAN

Mikhail O. Alex

Director of Planning and Zoning



LOCATION MAP

The logo for Carubba Engineering features the company name in a bold, serif font. The word "CIVIL-STRUCTURAL" is at the top, "INDUSTRIAL-MARINE" is below it, and "CARUBBA" is prominently displayed in large letters, with "ENGINEERING" underneath in a slightly smaller size.

C.O.O

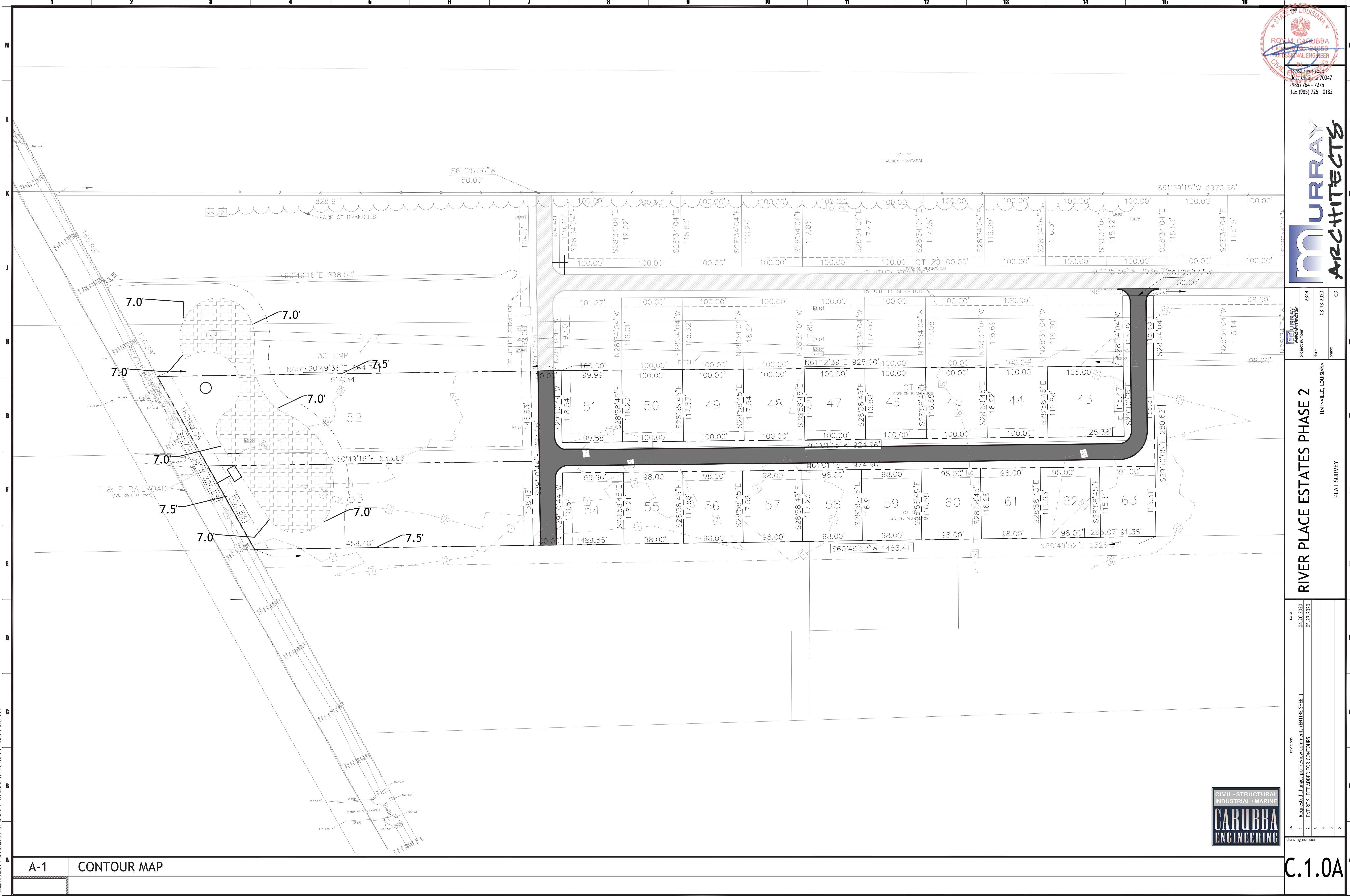
SHEET INDEX

- C.0.0 Title Sheet
- C.1.0 Plat Survey
- C.1.0A Contour Map
- C.1.1 Overall Street Layout
- C.1.2 Detail Paving Plan
- C.1.3 Paving Details
- C.1.4 Drainage Plan
- C.1.5 Drainage Plan and Profile
- C.1.6 Drainage Plan and Profile
- C.1.7 Water Plan
- C.1.8 Water Plan Notes
- C.1.9 Sewer Plan
- C.1.10 Sewer Plan and Profile
- C.1.11 Sewer Plan and Profile
- C.1.12 Lighting Plan
- C.1.13 Details
- C.1.14 Details
- C.1.15 Details
- C.1.16 Street Section

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project number:
date: 08.13.
phase:

RIVER PLACE ESTATES PHASE 2
HAWTHORPE, LOUISIANA

TITLE SHEET



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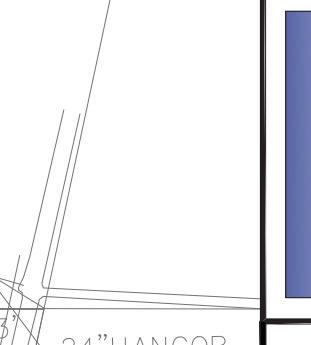
RIVER PLACE ESTATES PHASE 2

HAINVILLE, LOUISIANA

Street Layout

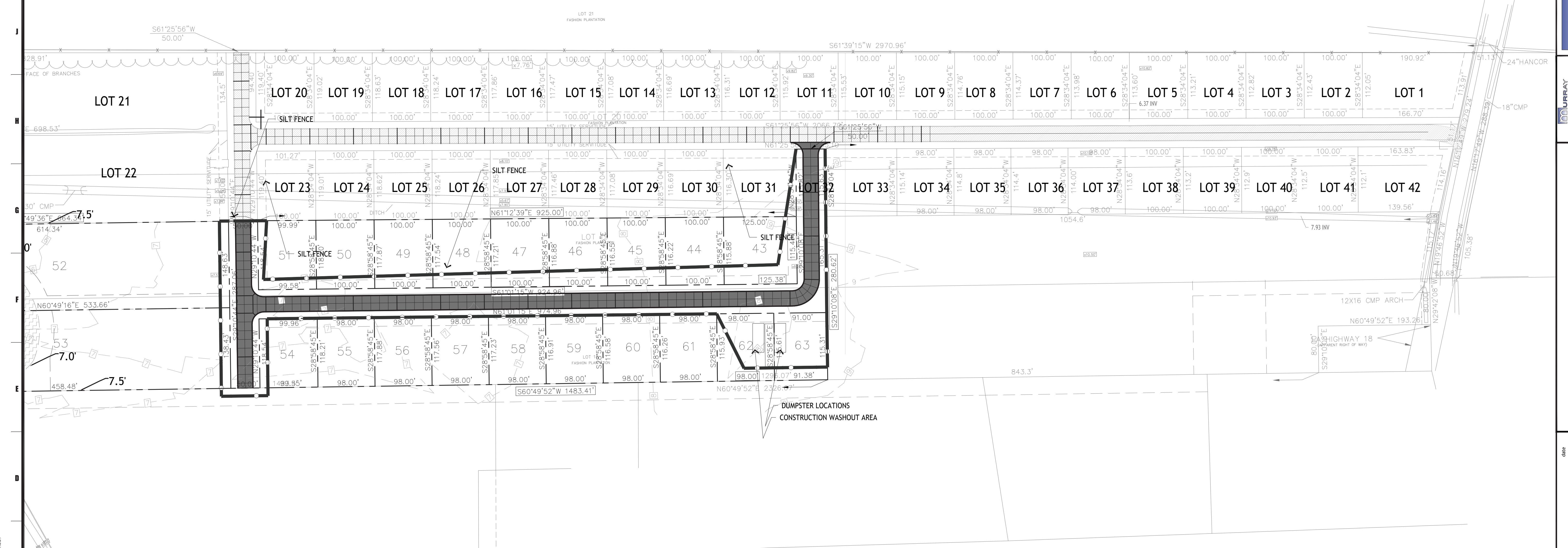
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project number
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date
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RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA

Detail Street Layout

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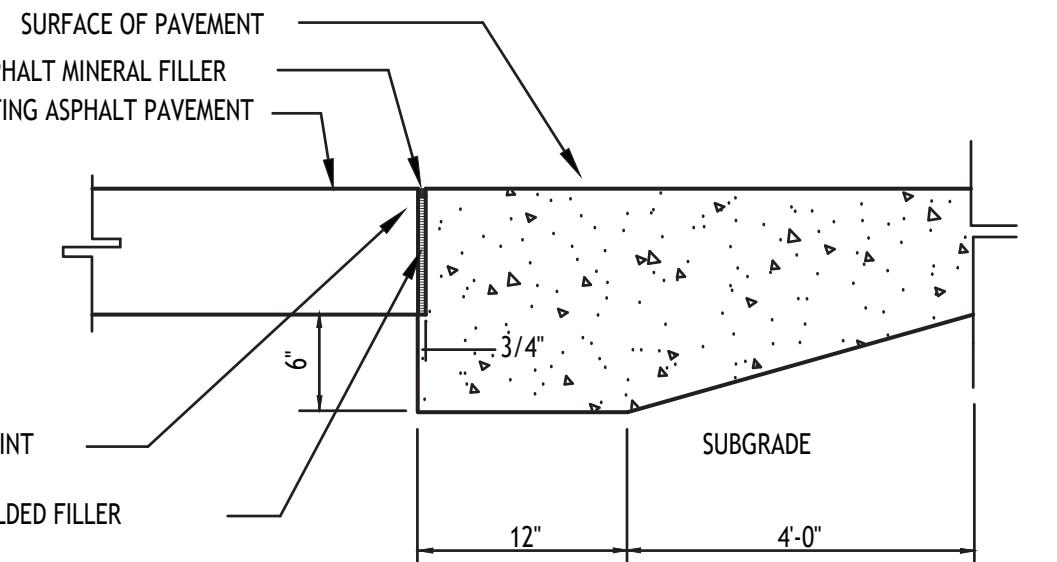
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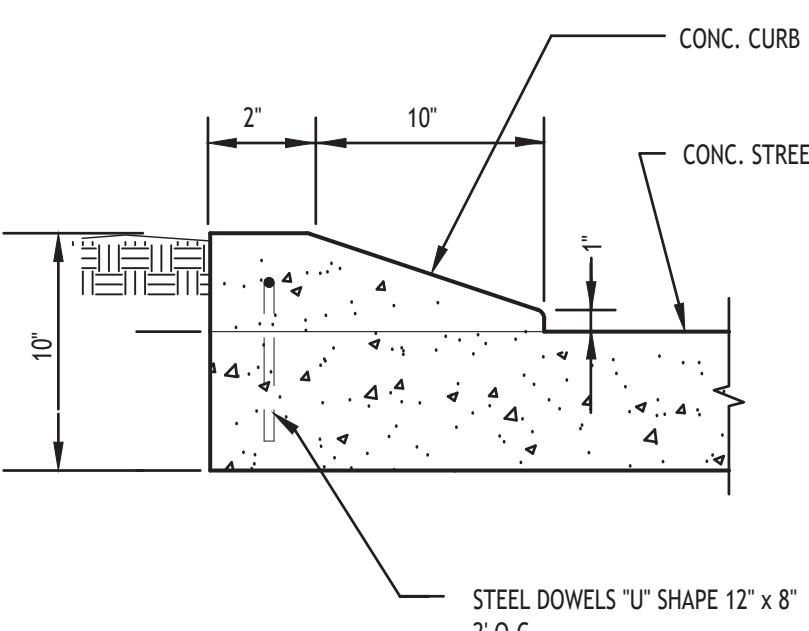
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RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA
Paving Details

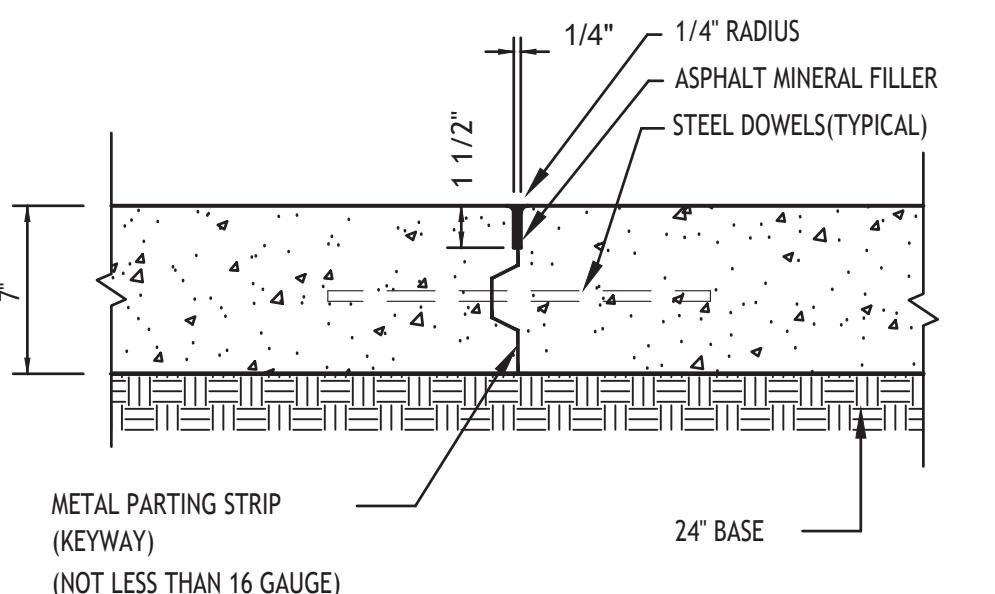
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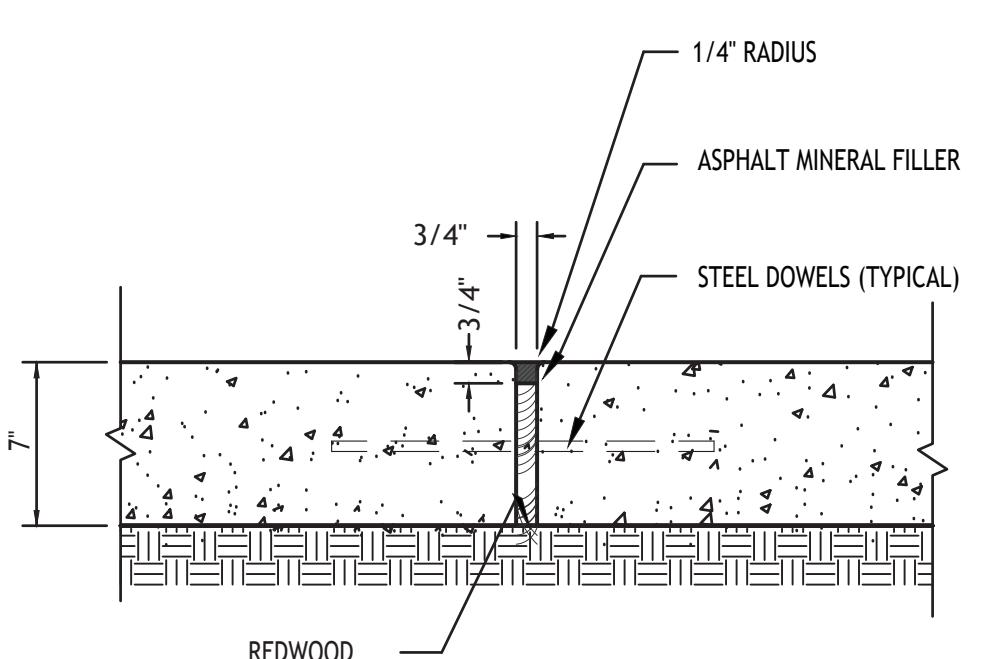
THICKEN EDGE AT STREET TIE-IN



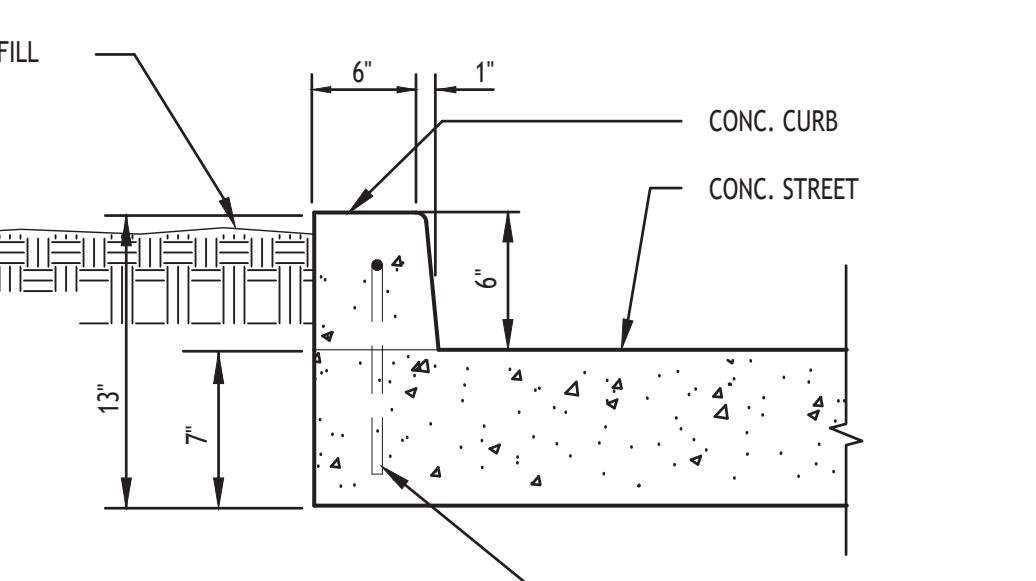
TYPICAL ROLL OVER CURB



CONTROL JOINT



EXPANSION JOINT



NOTES:

GENERAL

1. THE TESTING LABORATORY SHALL BE SELECTED BY ST. CHARLES PARISH.
2. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF ST. CHARLES PARISH, AND OFFER SUCH PARISH STANDARDS THAT MAY BE APPLICABLE, AND THE GENERAL SPECIFICATIONS OF CARUBBA ENGINEERING
3. CONTRACTOR TO ADJUST EXISTING UTILITIES TO AVOID CONFLICTS WITH SEWERAGE AND DRAINAGE STRUCTURES.

PAVEMENT

1. UNLESS OTHERWISE SHOWN ALL PAVEMENT SHALL MEASURE 27' FROM BACK OF CURB TO STREET EDGE AND SHALL BE 7" THICK.
2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS AND SHALL BE DESIGNED WITH A WATER REDUCING ADMIXTURE AND SHALL HAVE A MAXIMUM SLOP OF 4".
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED CONCRETE MIX DESIGN TO THE Carubba FOR APPROVAL. NO CONCRETE SHALL BE PLACED UNTIL THE MIX DESIGN HAS BEEN APPROVED IN WRITING.
4. IF CONCRETE TEMPERATURE MEASURED AT THE POINT OF DISCHARGE EXCEEDS 85° F OR IF IT CAN REASONABLY BE EXPECTED TO EXCEED 85° F AT THE TIME OF PLACEMENT, A WATER REDUCING ADMIXTURE, A.S.T.M. C494, TYPE D, SHALL BE DESIGNED INTO THE MIX.
5. CONCRETE, WHEN ITS TEMPERATURE AT THE TIME OF PLACEMENT IS 95° F OR HIGHER, OR CONCRETE NOT DEPOSITED WITHIN 1 1/2 HRS; AFTER THE INITIAL INTRODUCTION OF THE MIXING WATER, SHALL BE REJECTED AND NOT USED.
6. PAVEMENT SHALL NOT BE OPEN TO TRAFFIC UNTIL 21 DAYS AFTER PLACEMENT WITHOUT APPROVAL OF THE ENGINEER.
7. ALL PAVEMENT SHALL HAVE ONE LONGITUDINAL JOINT, LOCATED 9.5' FROM BACK OF CURB
8. BASE COURSE SHALL CONSIST OF A MINIMUM OF 6" AASHTO A-3 OR BETTER (COMMON RIVER SAND) 97% STANDARD PROCTOR DENSITY.
9. SUB BASE MATERIAL SHALL CONSIST OF A MINIMUM OF 18" AASHTO A-3 OR BETTER (COMMON RIVER SAND) 97% STANDARD PROCTOR DENSITY.
10. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 75' ON CENTER. SEE PLAN FOR EXAMPLE
11. TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED 5 EQUAL SPACES EVERY 75 FEET. SEE PLAN FOR EXAMPLE
12. ALL SIDEWALKS SHALL INSTALLED BY LOT OWNER AS PART OF THE PERMIT FOR CONSTRUCTION OF EACH STRUCTURE

H-1

PAVING DETAILS

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drawing number		
CARUBBA ENGINEERING		

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RIVER PLACE ESTATES PHASE 2

HAMMILL, LOUISIANA

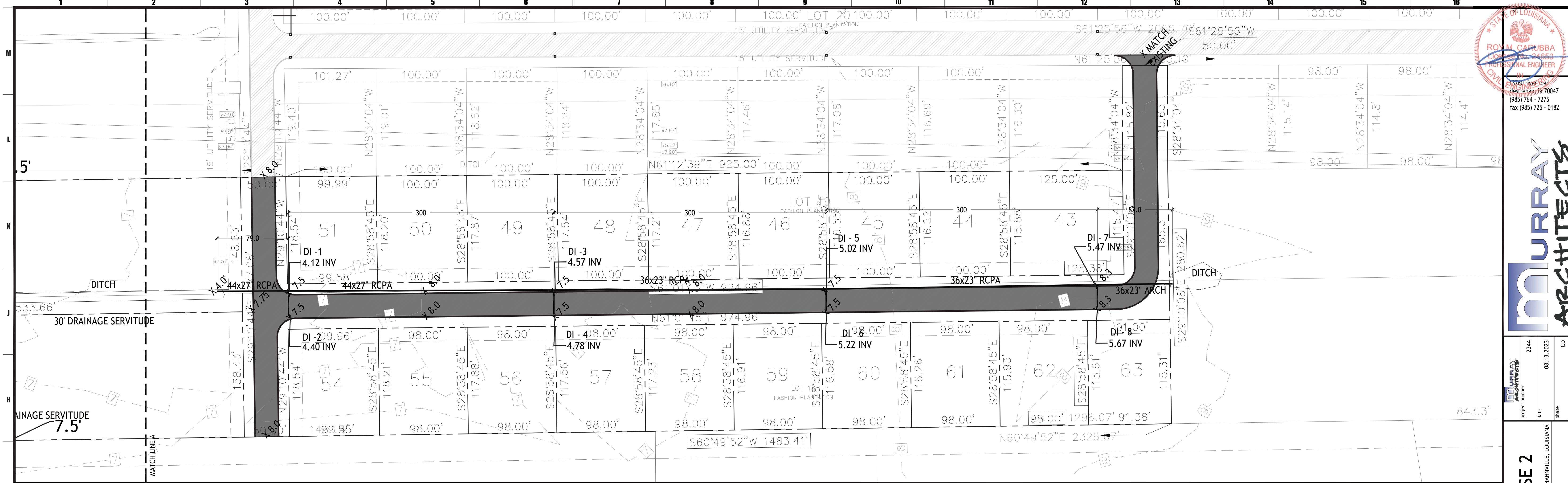
Drainage Plan

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G-1 Drainage Plan Part A

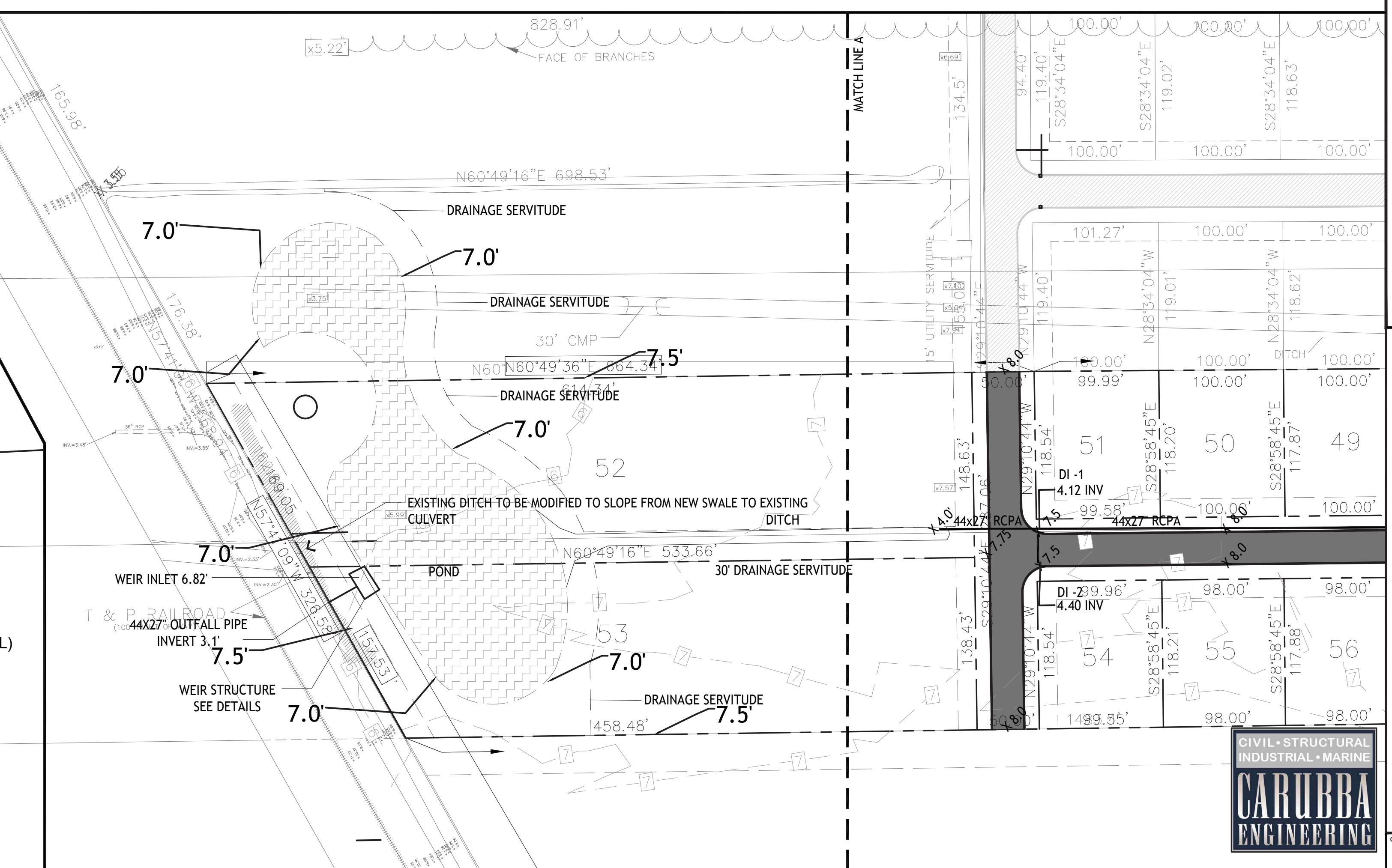
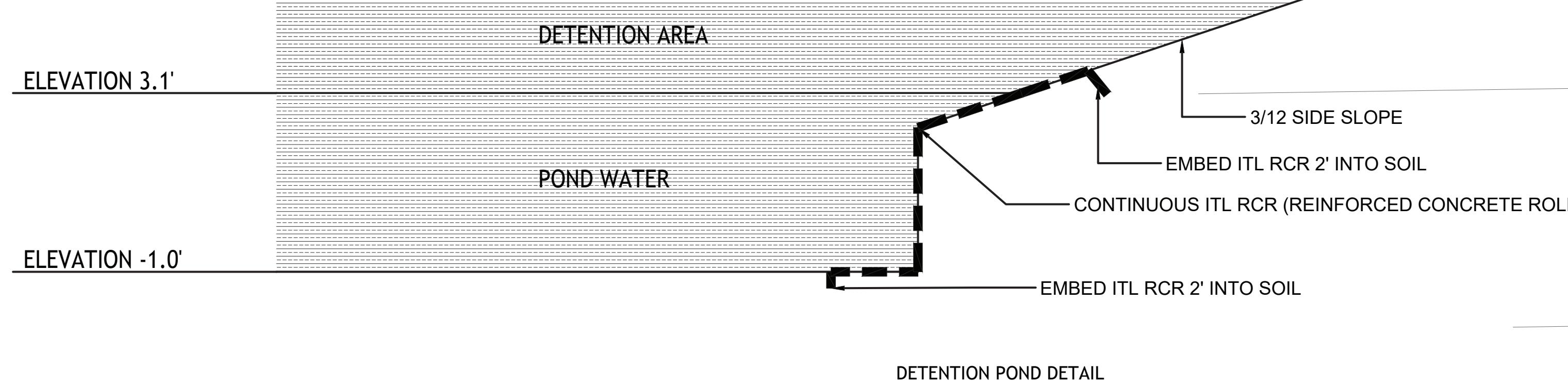
1'=50'

NOTE:
1. ENTIRE SITE SHALL BE GRADED FROM REAR OF LOT TO STREET TO ALLOW PROPER DRAINAGE.
2. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF ONSITE AND SHALL BE AT THE DIRECTION OF THE OWNER.

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A-1 Drainage Plan Part B

N.T.S.

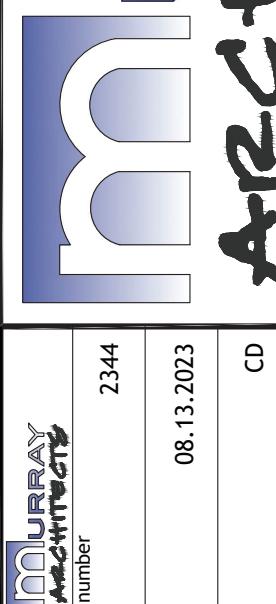


A-9 Drainage Plan Part B

1'=50'

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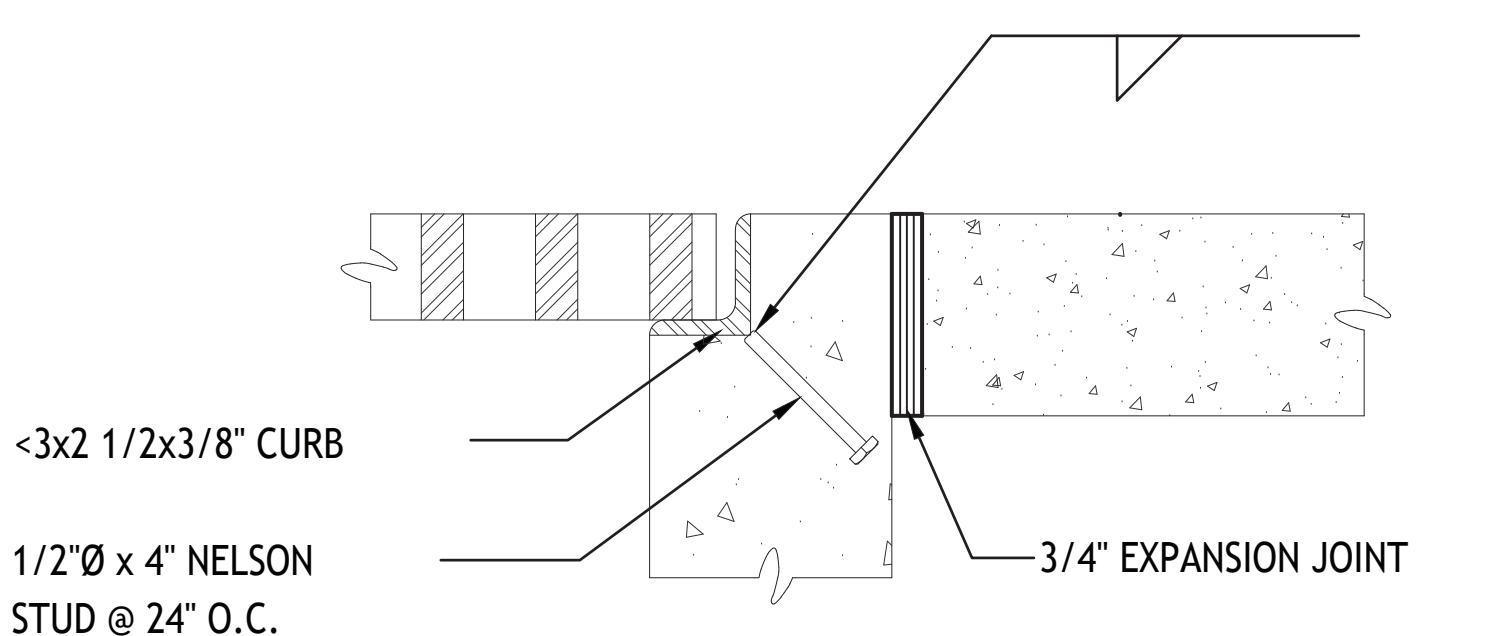


RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA
Drainage Plan

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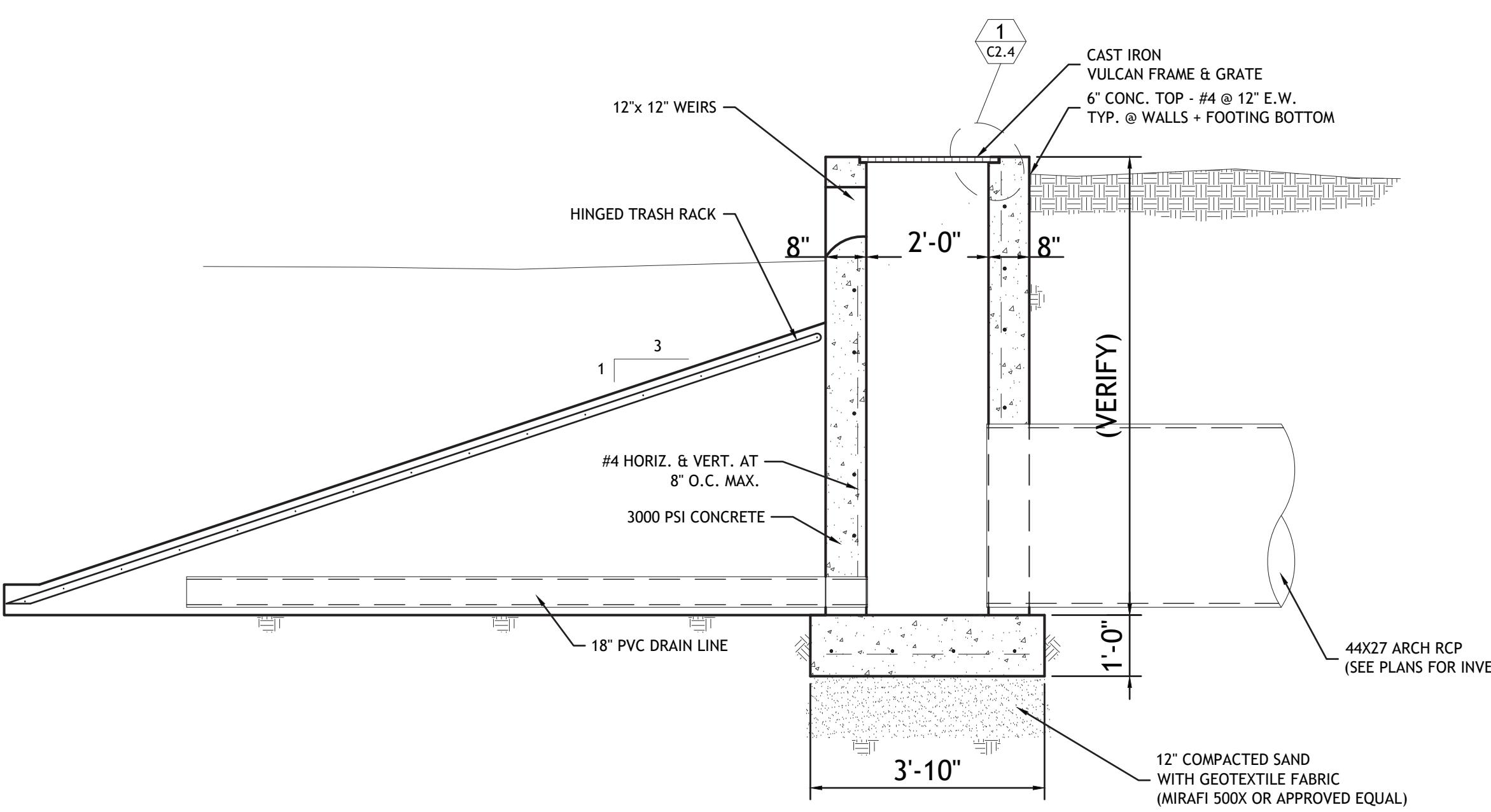
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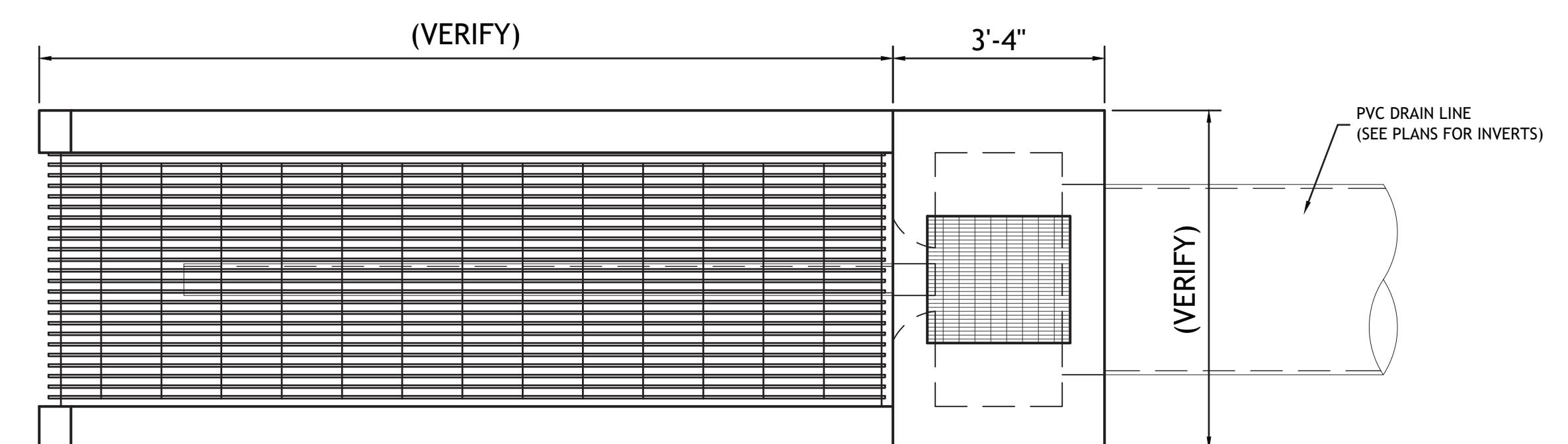
CURB ANGLE DETAIL

SCALE: N.T.S.



TYPICAL OUTFALL STRUCTURE

SCALE: 1/2" = 1'-0"



TYPICAL OUTFALL STRUCTURE PLAN

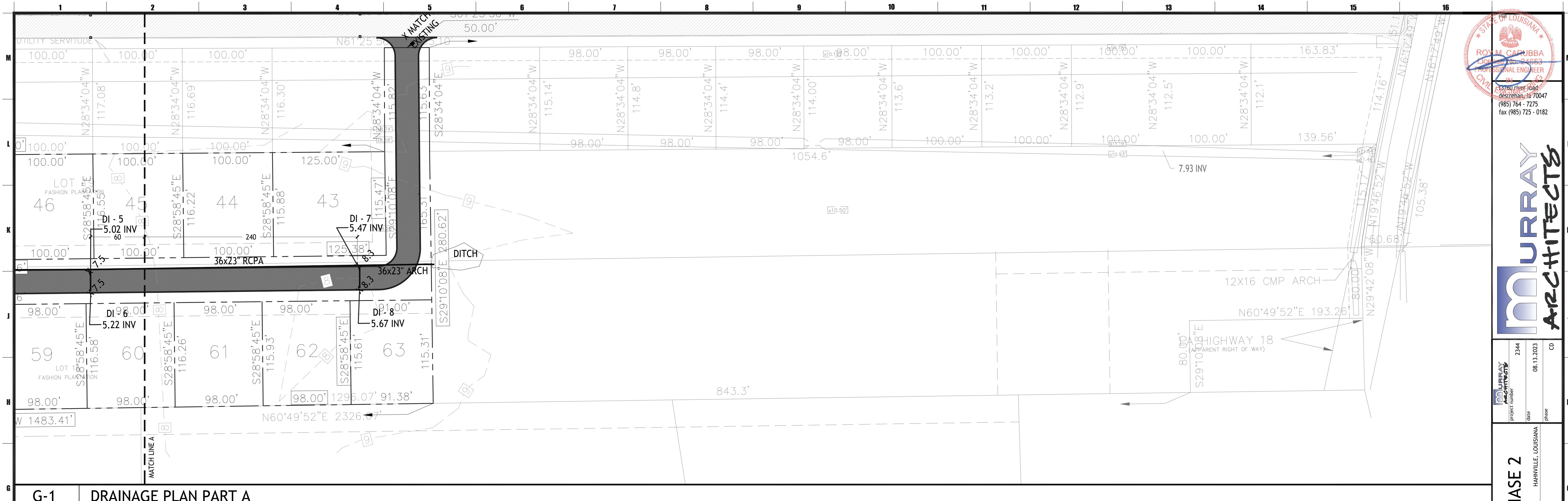
SCALE: 1/2" = 1'-0"

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DRAINAGE PLAN PART A

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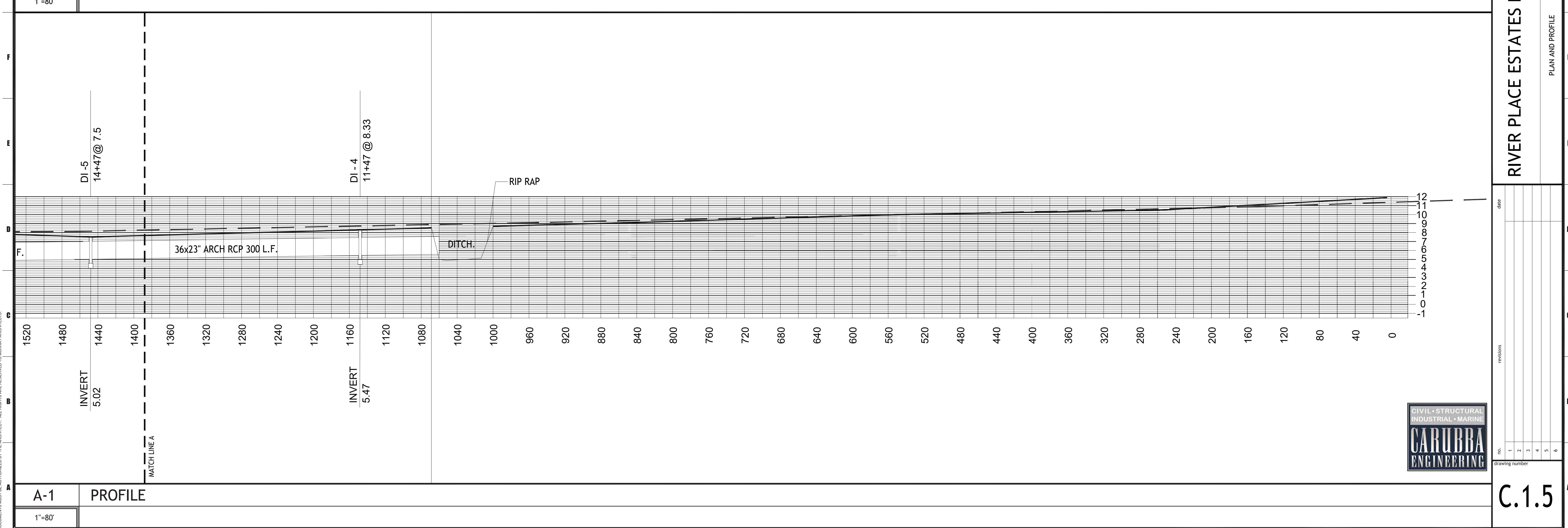
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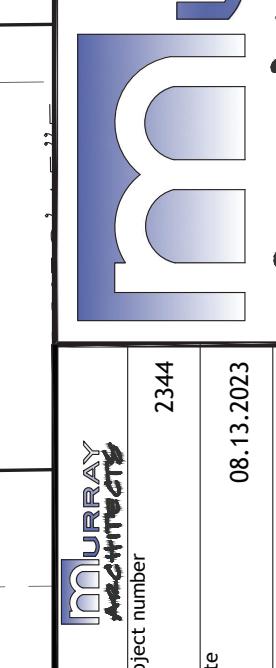
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RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA

PLAN AND PROFILE

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2344

08.13.2023

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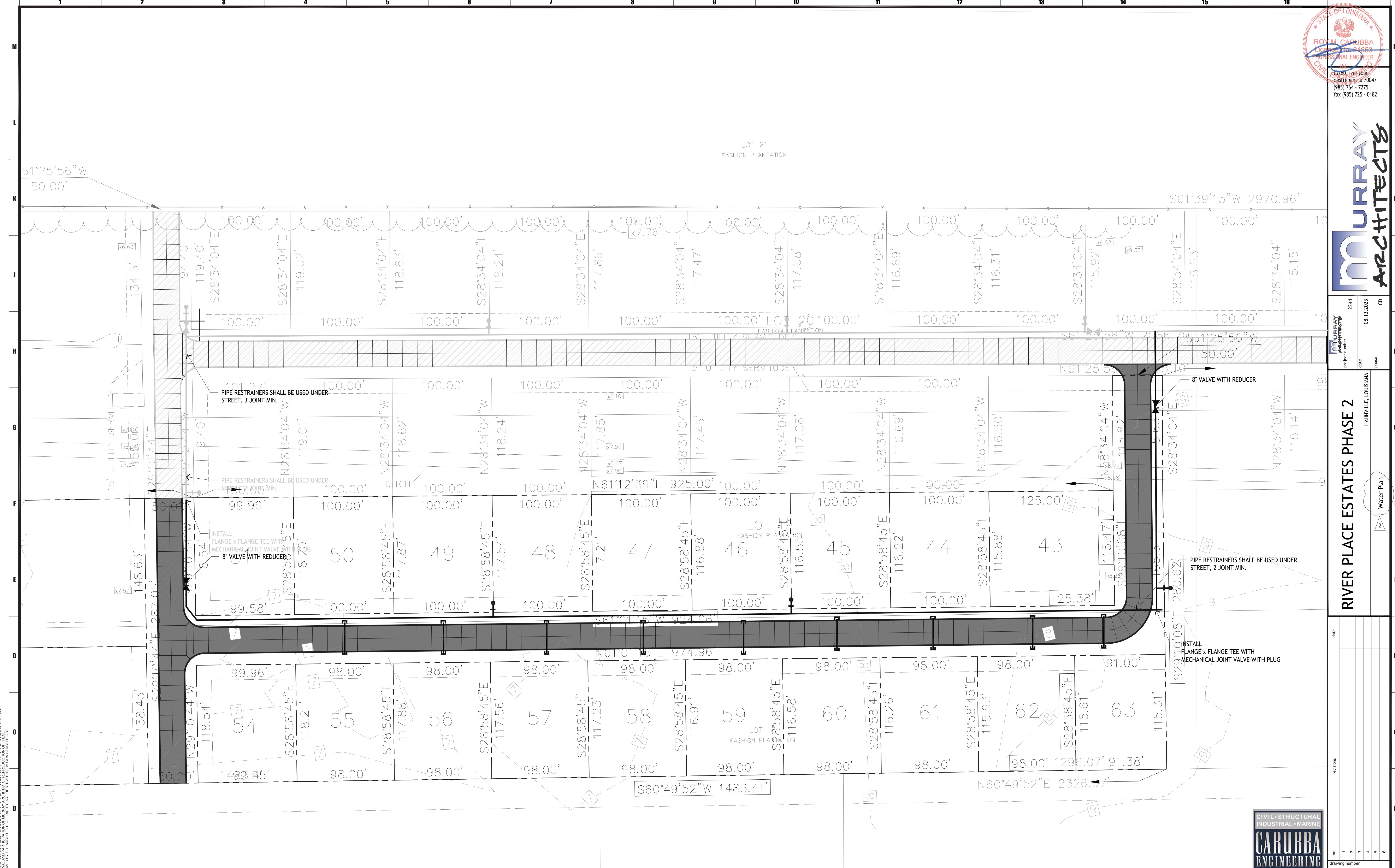
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MURRAY C. W. G. Number	2344	08.13.2023	CD
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RIVER PLACE ESTATES PHASE 2

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drawing number						

C.1.7



An architectural line drawing of a building's front elevation. The drawing features a central entrance with a pedimented portico supported by four columns. The facade is divided into sections by vertical pilasters. Labels A, B, and C are positioned along the left side of the drawing, pointing to specific parts of the building's profile. Label A points to the base of the columns, label B points to the top of the columns, and label C points to the roofline.

A-1	Water Plan Part A
1"=80'	

WATER NOTES

1. THE CONTRACTOR SHALL NOT EXPOSE, CUT, TAP INTO OR CONNECT TO EXISTING DEPARTMENT OF WATERWORKS LINES WITHOUT FIRST ADVISING AND SECURING PERMISSION OF THE DEPARTMENT OF WATERWORKS.U
 2. USE NECESSARY D.I. FITTINGS TO AVOID CONFLICTS WITH OTHER UTILITIES.
 3. BACK FILL ALL STREET CROSSINGS WITH RIVER SAND.
 4. 8" DIA. WATERLINE SHALL BE PVC PIPE, BLUE IN COLOR, IN ACCORDANCE WITH AWWA C-900, CLASS 150 (DR 18).
 5. WATERLINES TO BE INSTALLED 4' OFFSET FROM PAVEMENT EDGE. 6. WATERLINES SHALL BE INSTALLED WITH 36" TO 40" OF COVER OVER THE BARREL OF THE PIPE EXCEPT AT DITCH CROSSINGS.
 7. FIRE HYDRANTS SHALL CONFORM TO AWWA SPECIFICATION C-502. MAIN VALVE SHALL BE 5 1/4" INCH COMPRESSION TYPE WHICH CLOSES WITH PRESSURE. FIRE HYDRANTS SHALL BE THREE-WAY IN DESIGN, HAVING TWO 2 1/2 INCH HOSE NOZZLES AND ONE 4 1/2" INCH PUMPER NOZZLE WITH NOZZLE CAPS AND CAP CHAINS. ALL NOZZLES SHALL HAVE NATIONAL STANDARD THREADS. OPERATING NUT SHALL BE PENTAGONAL MEASURING 1 1/2 INCHES FROM POINT TO FLAT. HYDRANT SHALL OPEN BY TURNING COUNTER-CLOCKWISE INTO HYDRANT BARREL UTILIZING A CHLORAMINES RESISTANT O-RING SEAL. A SUITABLE NOZZLE LOCK SHALL BE IN PLACE TO PREVENT INADVERTENT NOZZLE REMOVAL. HYDRANT SHOE SHALL HAVE MECHANICAL JOINT CONNECTION FOR 6 INCH PIPE. THE INTERIOR OF THE SHOE INCLUDING THE LOWER VALVE PLATE AND STEM CAP NUT SHALL HAVE A PROTECTIVE COATING THAT MEETS THE REQUIREMENTS OF AWWA C-550. FIRE HYDRANTS SHALL BE RED IN COLOR. FIRE HYDRANTS SHALL BE RATED FOR A WORKING PRESSURE OF 250 PSIG. COMPOSITION OF THE MAIN VALVE SHALL BE EPDM MOLDED RUBBER HAVING A DUROMETER HARDNESS OF 95+- 5 AND SHALL BE REVERSIBLE IN DESIGN TO PROVIDE A SPARE IN PLACE. THE GREASE OR OIL USED FOR LUBRICATION SHALL BE NONTOXIC AND SAFE FOR USE IN POTABLE WATER SYSTEMS. ALL HYDRANTS WILL BE OF THE TRAFFIC "BREAKAWAY" TYPE WITH SAFETY STEM COUPLING AND BREAKABLE FLANGE THAT PERMITS FULL 360 DEGREE ROTATION OF THE NOZZLE SECTION. CUT DOWN BOLTS ARE NOT ACCEPTABLE FOR THIS REQUIREMENT. ALL BELOW GROUND NUTS AND BOLTS SHALL BE STAINLESS STEEL FOR CORROSION RESISTANCE. THE HYDRANT SHALL BE DESIGNED WITH AN ANTI-FRICTION BEARING, LOCATED SO THAT IT REDUCES THE TORQUE REQUIRED TO OPERATE THE HYDRANT. PLASTIC (POLYURETHANE) MAIN VALVES ARE UNACCEPTABLE. THE MAIN VALVE SHALL HAVE A CROSS SECTION NOT LESS THAN 1". HYDRANT SHALL BE MUELLER A-423 SUPER CENTURION 250 OR APPROVED EQUAL.
 8. PIPE RESTRAINING GLANDS SHALL BE USED AT HYDRANTS, TAPPING SLEEVES AND VALVES, AND ANY DIRECTIONAL CHANGE AND SHALL BE MEGALUG RING PIPE RESTRAINTS.
 9. MECHANICAL JOINT FITTINGS SHALL MEET OR EXCEED AWWA DUCTILE IRON C153/A21.53 SSB OR APPROVED EQUAL, LATEST REVISION. MJ FITTINGS SHALL BE THE RUBBER GASKET COMPRESSION TYPE. MJ FITTINGS SHALL CONFORM TO AWWA/ANSI C111/A21.11, LATEST REVISION. GASKET MATERIAL SHALL BE CHLORAMINES RESISTANT. FITTING BODY MATERIAL SHALL BE DUCTILE IRON CONFORMING TO ASTM 536. PRESSURE RATING SHALL BE 350 PSI FOR 4" - 24" DIAMETER FITTINGS. PLAIN END FITTINGS ARE NOT PERMITTED. FITTINGS SHALL HAVE FUSION-BONDED EPOXY COATINGS ON ALL INTERIOR AND EXTERIOR SURFACES OF DUCTILE IRON IN ACCORDANCE WITH AWWA/ANSI C116/A21.16, LATEST REVISION, STAR OR APPROVED (CR TAG)
 10. DUCTILE IRON MECHANICAL JOINT FITTINGS SHALL BE COMPACT TYPE CONFORMING TO AWWA C153 AND AWWA C110 RATED FOR 350 PSI WORKING PRESSURE, CEMENT LINED IN ACCORDANCE WITH AWWA C104 WITH JOINTS AND ACCESSORIES.
 11. GATE VALVES SHALL BE IRON BODIED AND HAVE ALL INTERNAL AND EXTERNAL FERROUS SURFACES COATED WITH A FUSION BONDED THERMOSETTING POWDER EPOXY COATING OF A MINIMUM OF 10 MILS NOMINAL THICKNESS. THE COATING SHALL CONFORM TO AWWA C550. THE VALVE DISC AND GUIDE LUGS MUST BE FULLY (100%) ENCAPSULATED IN EPDM RUBBER MATERIAL. EPDM MUST BE IN RAISED LETTERS MOLDED IN THE RESILIENT WEDGE. IT MUST BE FULLY SUPPORTED WITH A MODIFIED WEDGE DISC WITH A RESILIENT RUBBER SEAT RING INTERNALLY REINFORCED BY A CONCENTRIC STEEL RING, WHICH ARE MANUFACTURED AND TESTED IN ACCORDANCE WITH AWWA SPECIFICATION C509. THEY SHALL BE 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE. VALVES SHALL BE NON-RISING STEM WITH A 2 INCH SQUARE WRENCH NUT, SHALL OPEN BY TURNING COUNTER CLOCKWISE AND SHALL BE EQUIPPED WITH CHLORAMINES RESISTANT O-RING STEM SEALS. HEX HEAD NUT AND BOLT MATERIAL SHALL BE 304 OR 316 STAINLESS STEEL. VALVES SHALL BE MUELLER SERIES A-2360-20 /A-2360-16 AND T-2360-16 OR APPROVED EQUAL.
 12. ALL VALVE BOXES SHALL BE CONSTRUCTED OF CAST IRON FOR ROADWAY SERVICE. VALVE BOXES SHALL BE TYLER 461-S/562-S OR APPROVED EQUAL. THE COVER SHALL BE OF THE DEEP SOCKET TYPE WITH THE WORD "WATER" CAST ON TOP.
 13. VALVE BOX RISERS SHALL BE CONSTRUCTED OF CAST IRON FOR ROADWAY SERVICE. THE RISER SHALL FIT INTO THE TOP SECTION OF THE VALVE BOX. THE RISER SHALL BE TRUMBULL 352 SERIES OR APPROVED EQUAL.

14. A CONCRETE PRE CAST SLAB MEASURING 2' X 2' X 4" WITH COMPRESSIVE STRENGTH OF 2500 PSI SHALL BE PROVIDED AROUND ALL VALVE BOXES NOT ON ROADWAY. THE OPENING IN THE SLAB SHALL BE 3/4" GREATER IN DIAMETER THAN THE OUTER DIAMETER OF THE VALVE BOX.
 15. THE CONTRACTOR WILL INDICATE THE LOCATION OF EACH VALVE BY MEANS OF A "V" CUT IN A PRE CAST SLAB PLACED ADJACENT TO THE ROADWAY EDGE AND LOCATED AT THE VALVE SITE.
 16. THE CONTRACTOR WILL BE REQUIRED TO FURNISH AN AS-BUILT WATER PLAN TO THE ENGINEER AND TO THE PARISH WATERWORKS DEPARTMENT PRIOR TO ACCEPTANCE OF THE WATER LINE.
 17. REFER TO OTHER DRAWINGS FOR THE LOCATION OF OTHER PROPOSED AND EXISTING UTILITIES.
 18. THE CONTRACTOR SHALL VERIFY THE LOCATION OF OTHER UTILITIES AND TAKE NECESSARY PRECAUTIONS TO PROTECT SAME.
 19. ALL OTHER WORK NOT SPECIFIED WITHIN THESE DRAWINGS SHALL CONFORM TO THE SPECIFICATIONS OF THE ST. CHARLES DEPARTMENT OF WATERWORKS AND ST. CHARLES SUBDIVISION REGULATIONS 99-4-44, REVISED THROUGH APRIL 4, 1999. CONTRACTOR SHALL VERIFY THAT ALL PROPOSED MATERIALS, METHODS AND WORKMANSHIP CONFORM TO THE REQUIREMENTS OF AND ARE ACCEPTABLE TO THE DIRECTOR OF THE DEPARTMENT OF WATER WORKS PRIOR TO INSTALLATION OR USAGE.
 20. TESTING AND DISINFECTING OF WATERLINE: ALL WATER SYSTEM INSTALLATIONS MUST PASS DEPARTMENT OF WATERWORKS APPROVED PRESSURE, LEAKAGE AND BACTERIOLOGICAL TESTS PRIOR TO APPROVAL. SEE ST. CHARLES PARISH DEPARTMENT OF WATERWORKS DISTRIBUTION SYSTEM SPECIFICATIONS.
 FIRST CHLORINATION WILL BE PROVIDED BY WATER WORKS. ANY ADDITIONAL CHLORINATION WILL BE AT THE CONTRACTORS EXPENSE
 21. PVC PIPE TO BEAPPED EACH END. MARK EACH END ON ROADWAY WITH REPNET MARKER TYPE NCT-8-WP-CBD OR RFT-8-WP-CBD.
 22. A TRACER WIRE SHALL BE ATTACHED DIRECTLY TO THE PIPE, ALL FIXTURES AND, APPURTENANCES. THE TRACER WIRE WILL BE RUN TO THE TOP OF EACH VALVE BOX TO ALLOW CONNECTION TO THE WIRE.
 23. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE CORRECT FIRE HYDRANT SERVICE LINE DEPTHS DUE TO PIPE INTERFERENCE, DITCHES OR OTHER OBSTRUCTIONS. NO ADDITIONAL PIPE EXTENSIONS WILL BE AUTHORIZED FOR PAYMENT. A BREAKAWAY FLANGE IS TO BE PLACED 5 TO 8 INCHES BELOW FINISH GRADE. ALL HYDRANTS SHALL BE VALVED.
 24. THE REQUIRED COVER FOR WATER AND SANITARY SEWER PIPES SHALL BE A MINIMUM OF 18 INCHES, WHERE THE SEWER PIPE IS BELOW THE WATER PIPE. THE REQUIRED HORIZONTAL SEPARATION FOR PARALLEL WATER AND SEWER PIPES SHALL BE A MINIMUM OF 6 FEET.
 25. CONTRACTOR TO PROVIDE (7)SEVEN DAY WRITTEN NOTICE TO ST. CHARLES PARISH WATERWORKS BEFORE COMMENCEMENT OF CONSTRUCTION.
 26. ALL WORK TO CONFORM WITH ST. CHARLES PARISH WATERWORKS DISTRIBUTION SYSTEM SPECIFICATION

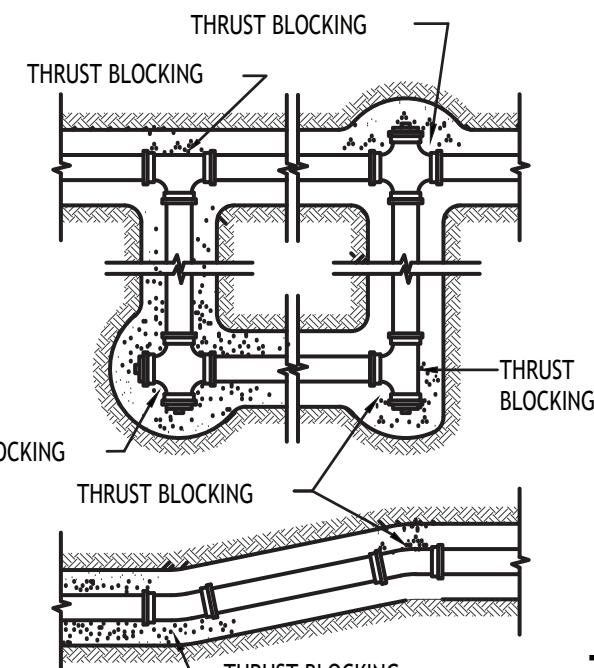
STATE OF LOUISIANA
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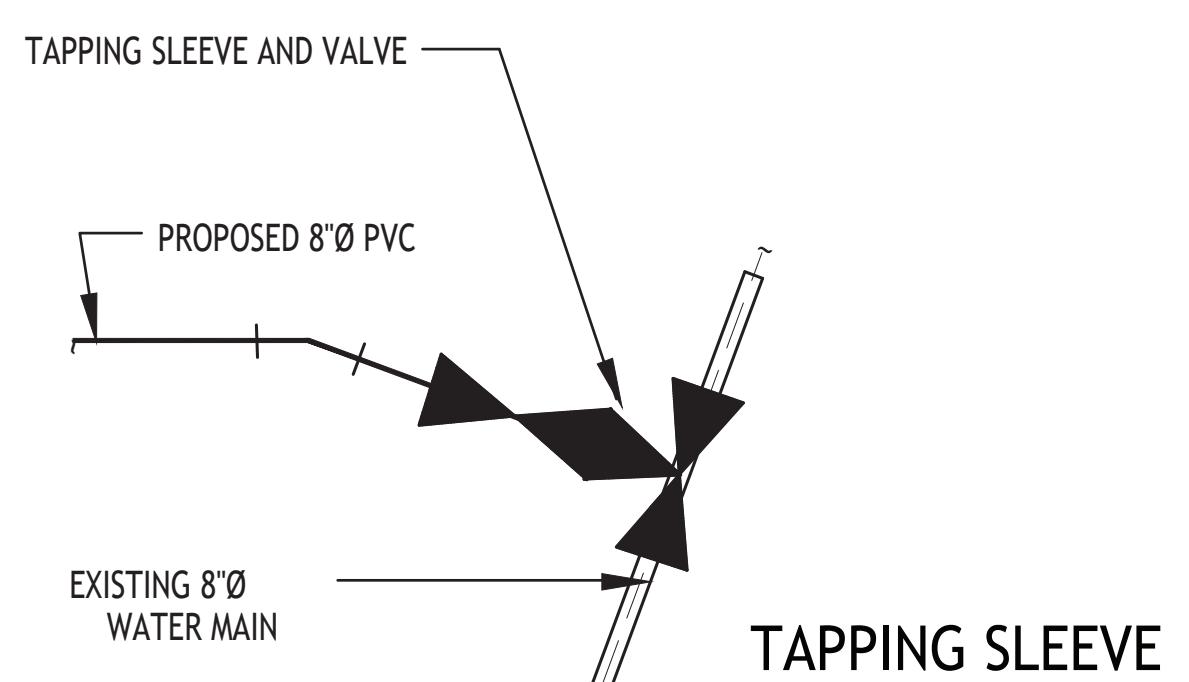
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phase	CD

RIVER PLACE ESTATES PHASE 2
 HAINVILLE, LOUISIANA
 WATER PLAN NOTES

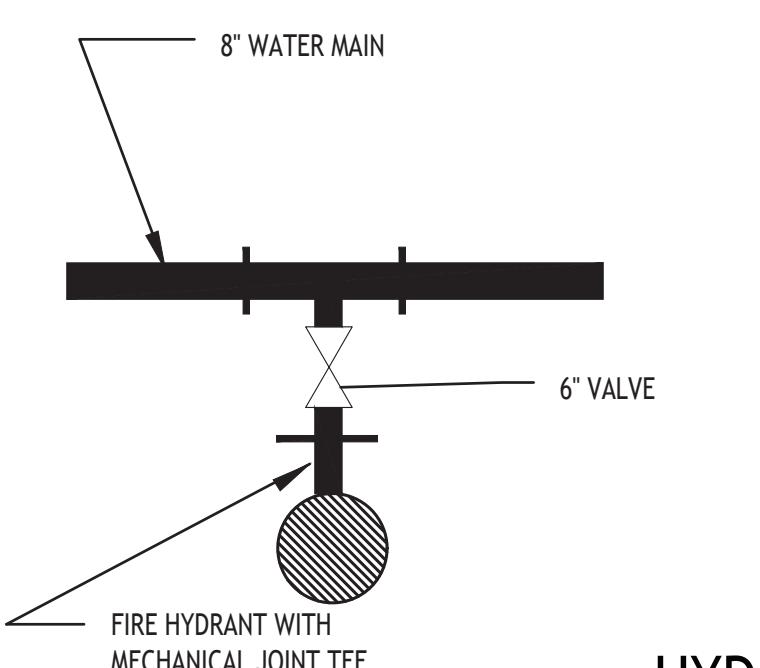
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revisions	
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phase	
no.	
drawing number	
C.1.8	



THRUST BLOCK



TAPPING SLEEVE



HYDRANT

LEGEND

- MECHANICAL JOINT x MECHANICAL JOINT TEE WITH MECHANICAL JOINT, RIDIGLY SECURED.
- MECHANICAL JOINT GATE VALVE MUELLER SERIES A2360-20 OR APPROVED EQUAL
- TAP INTO EXISTING 12" PVC MAIN
- MECHANICAL JOINT TEE IN LINE WITH HYDRANT
- TAPPING SLEEVE SHALL BE STAINLESS STEEL SMITH-BLAIR 662 OR 663 JCM 432 ROMAC SST
- TAPPING SLEEVE VALVE SHALL BE MUELLER SERIES A2360-16 OR APPROVED EQUAL

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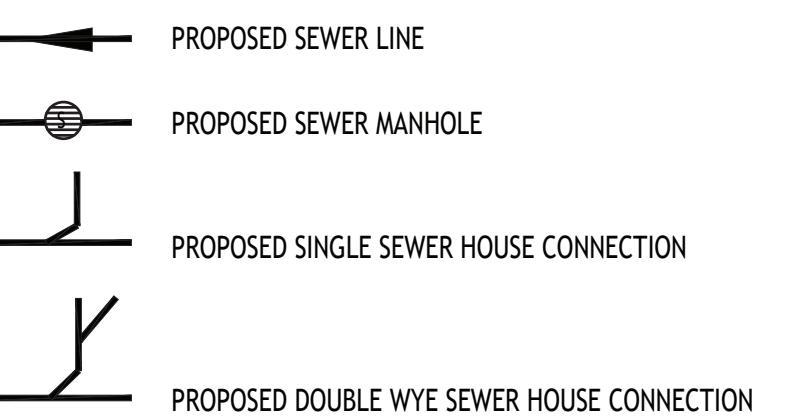
EWER NOTES

NOTE: ALL GRAVITY SEWER, FORCE MAINS AND MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ST. CHARLES PARISH REQUIREMENTS

1. SANITARY SEWER PIPE SHALL BE PVC PIPE, GREEN IN COLOR, CONFORMING TO ASTM D-3034, SDR 35 OR APPROVED EQUAL.
 2. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A PLAN SHOWING THE DISTANCE FROM THE NEAREST MANHOLE TO EACH HOUSE CONNECTION. HE SHALL INDICATE THE DEPTH OF MANHOLES AND DISTANCE BETWEEN THEM. HE SHALL VERIFY THE DEPTH AND LOCATION OF ALL HOUSE CONNECTIONS UPON COMPLETION OF THE PROJECT.
 3. THE SEWER PLAN SHOWS THE LOCATION OF MOST, IF NOT ALL HOUSE CONNECTIONS. THE CONTRACTOR MUST SERVE EACH LOT IN THE SUBDIVISION.
 4. WHERE REQUIRED BY GROUND CONDITIONS AND OR OSHA REGULATIONS, THE CONTRACTOR SHALL USE TIMBER OR SHEETING OR OTHER MEANS TO CONTROL THE WIDTH OF THE EXCAVATION AND TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN. THE COST OF THIS SHEETING AND BRACING SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE FOR INSTALLING THE SEWER. NO EXTRA WILL BE PAID FOR THIS ITEM.
 5. SEWER BEDDING SHALL CONFORM TO DRAWING DETAILS
 6. THE LETTERS "HC" SHALL BE PLACED IN THE FACE OF A PRE CAST PAD AND INSTALLED NEXT TO THE EDGE OF THE PAVING AND OVER EACH HOUSE CONNECTION. SEE DETAIL FOR COMPLETE DESCRIPTION OF THE WORK.
 7. SEWER MAIN TO BE INSTALLED AS SHOWN ON DRAWINGS
 8. ALL HOUSE CONNECTIONS SHALL BE 6" DIA. UNLESS NOTED OTHERWISE.
 9. ALL MANHOLES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ST. CHARLES PARISH CODE OF ORDINANCE.
 10. ALL MANHOLE FRAMES AND COVERS SHALL BE AS APPROVED BY ST. CHARLES PARISH DEPARTMENT OF WASTEWATER.
 11. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AN AS-BUILT SEWER PLAN TO THE ENGINEER AND TO THE PARISH DEPARTMENT OF PUBLIC WORKS PRIOR TO ACCEPTANCE OF THE WORK.

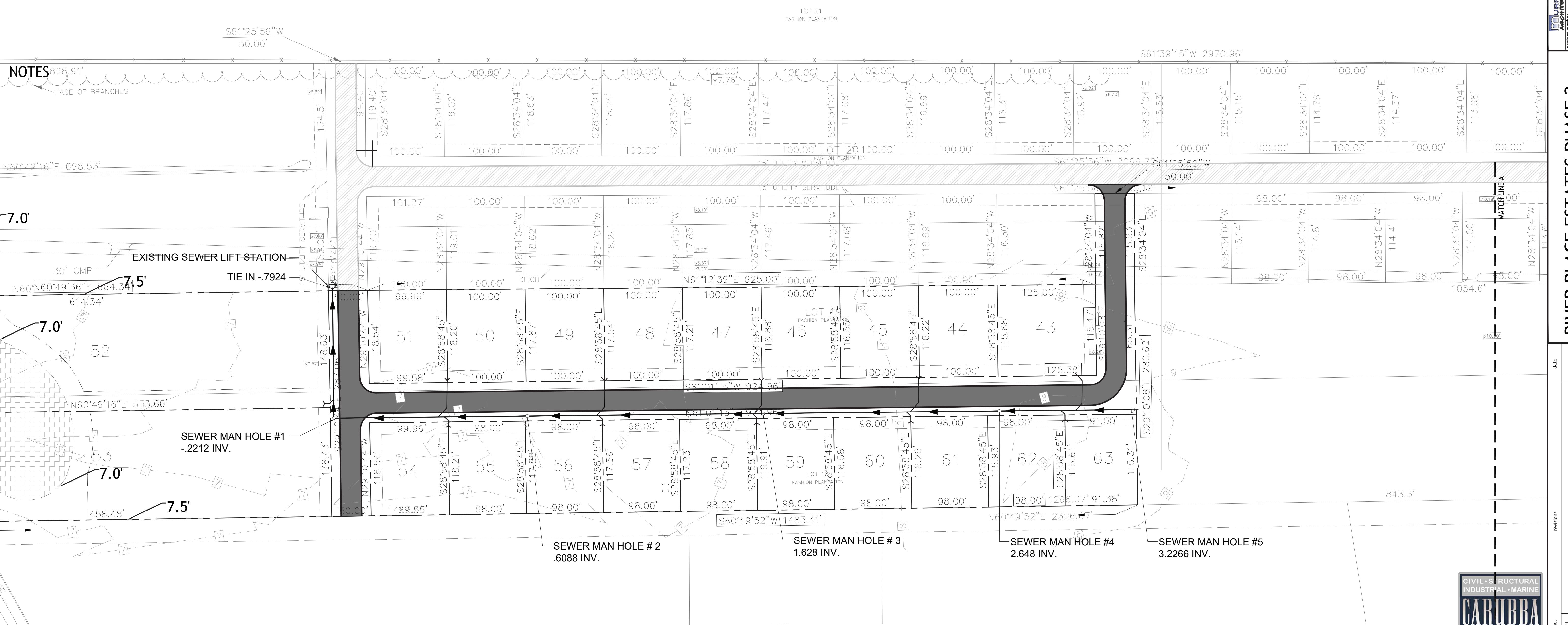
- 12. MISCELLANEOUS SEWER MATERIALS SHALL BE STANDARD SEWER MATERIALS AND SHALL BE APPROVED BY THE PARISH ENGINEER.**

LEGEND:



EWER CALCULATIONS

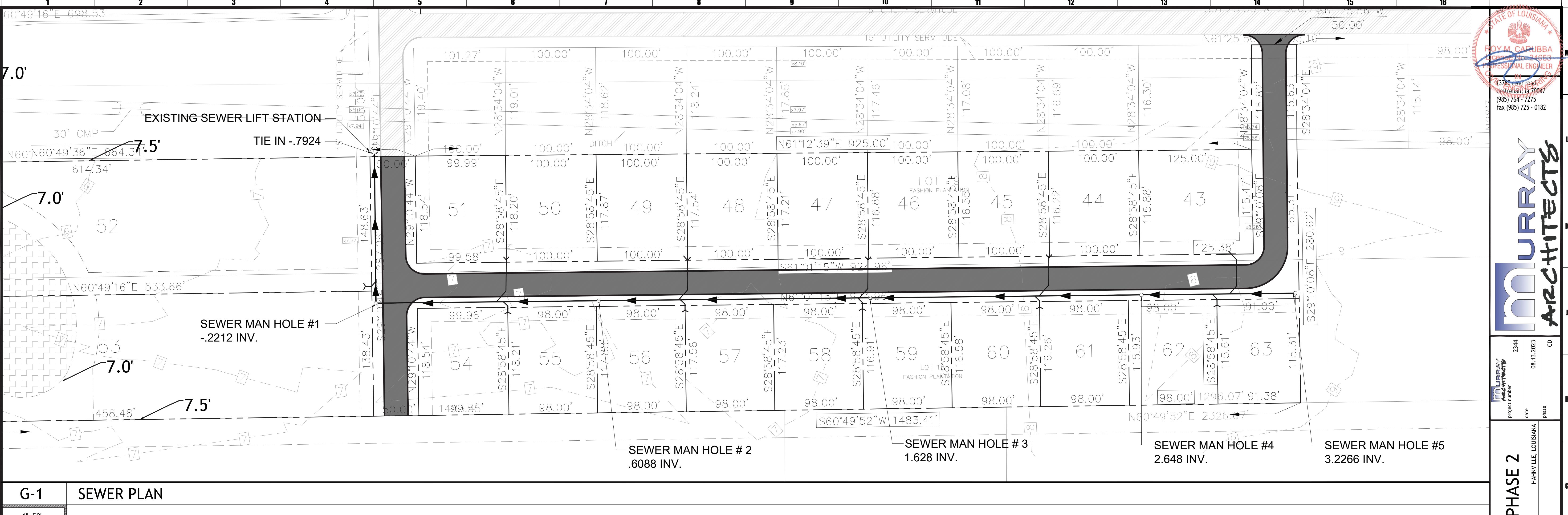
BUILDING SITE
x400 GALLONS PER DAY=8,400 GALLONS
 $,800/1440=5.83$ GALLONS PER MINUTE



C.1.9

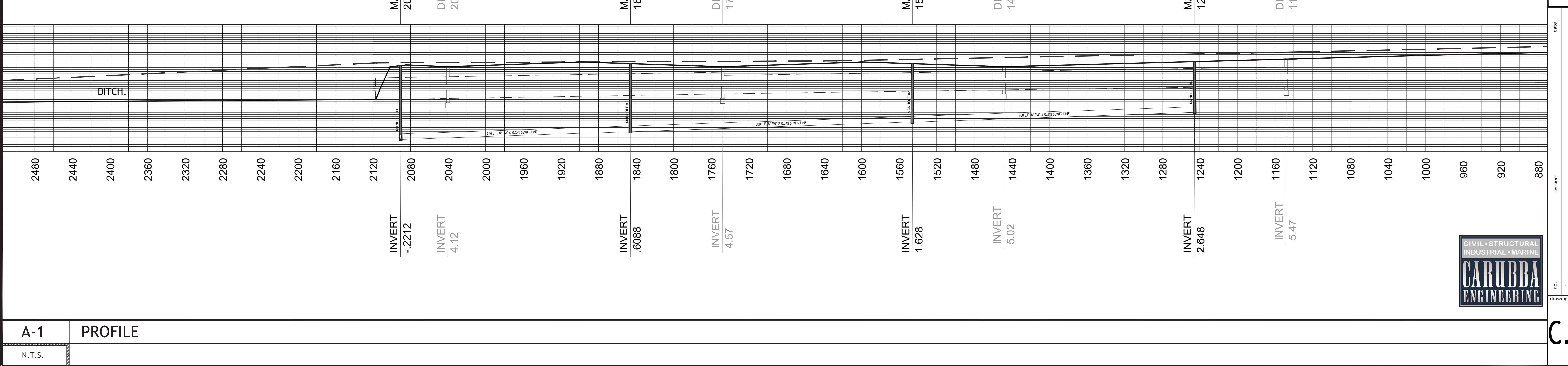
The logo for Carubba Engineering features the company name in a large serif font, with "CARUBBA" on top and "ENGINEERING" below it, all contained within a dark rectangular box.

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G-1 SEWER PLAN

1"=50'



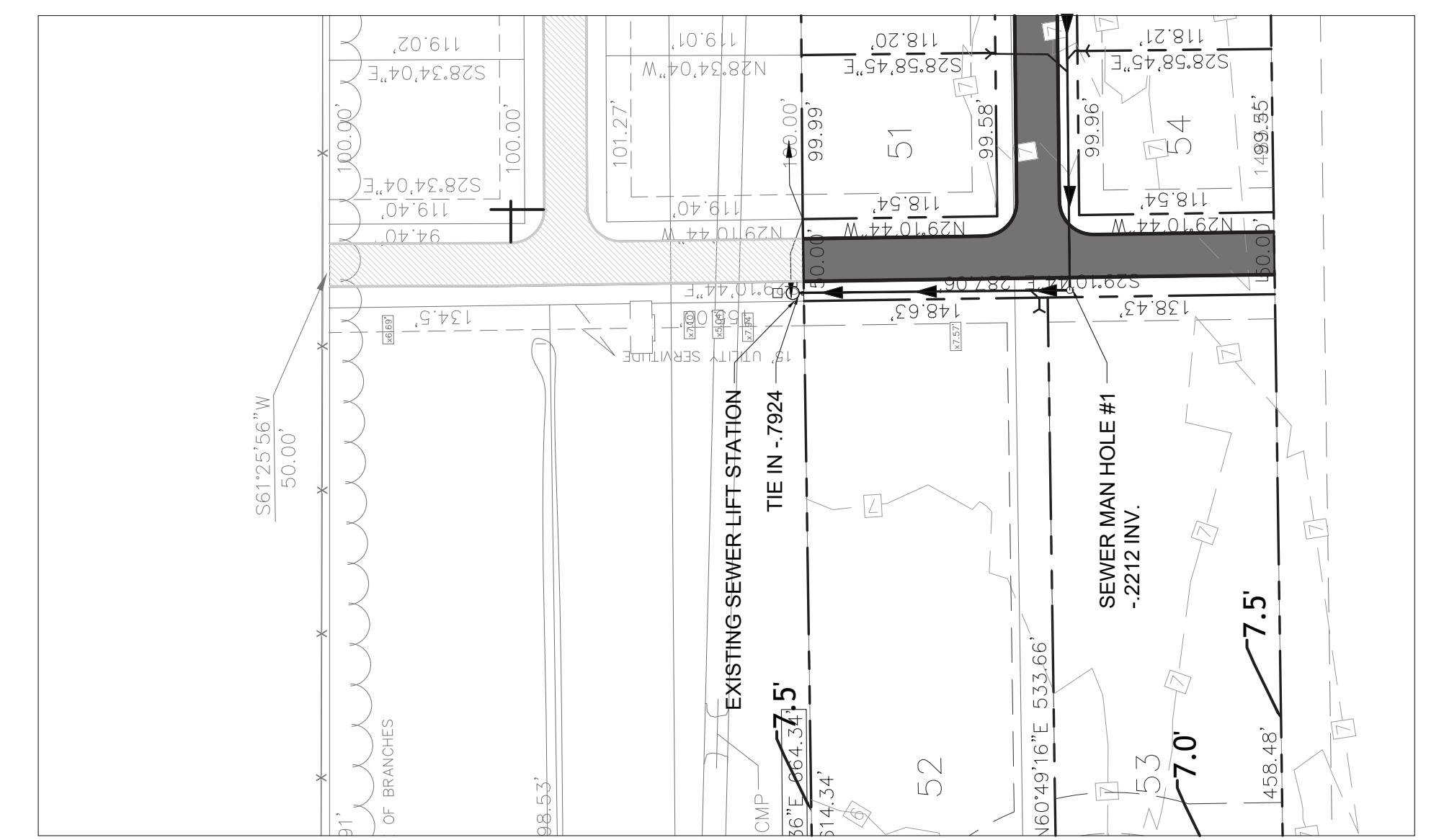
A-1 | PROFILE

N.T.S.

c.1.10

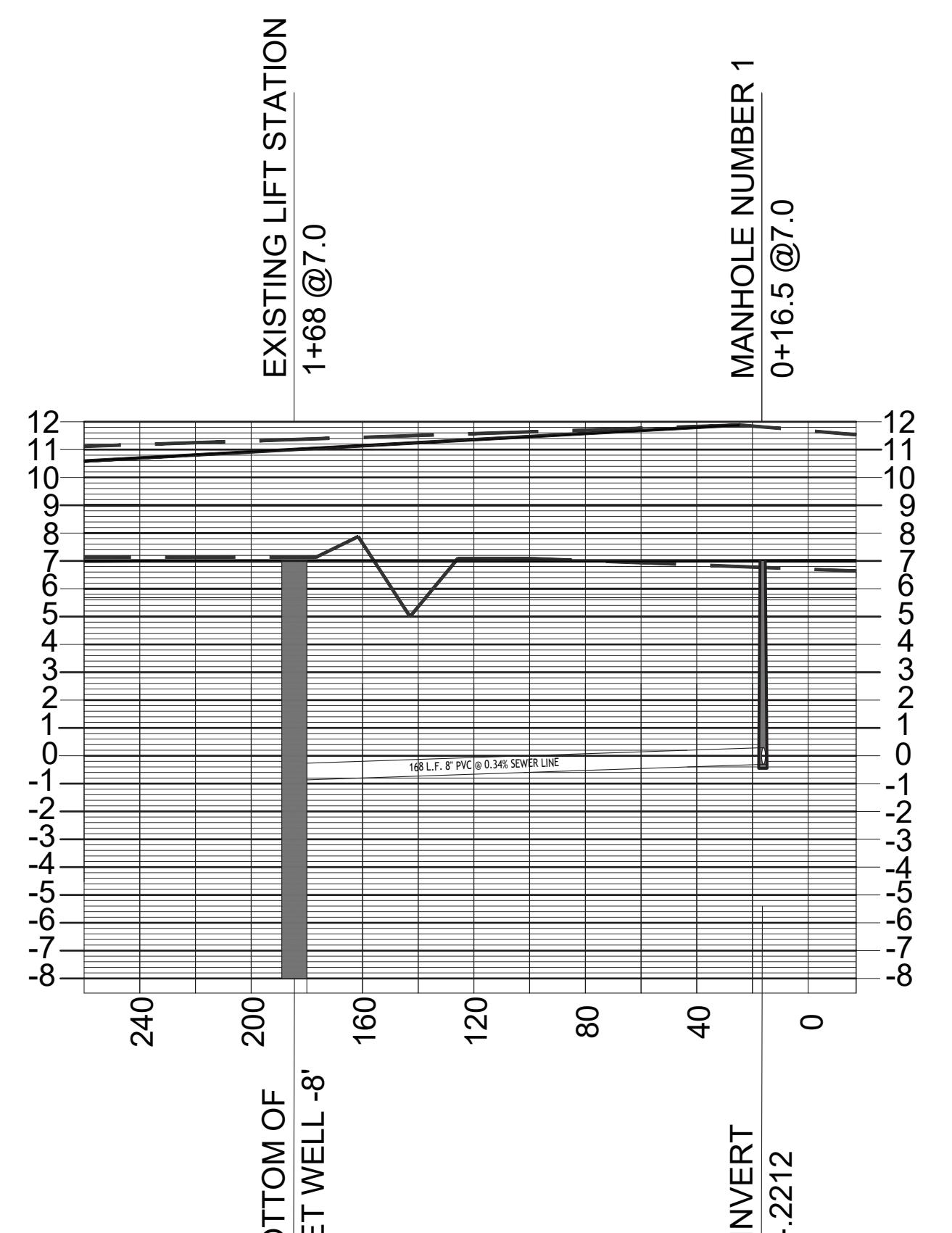
G-1 SEWER PLAN

1"=50'



A-1 SEWER PROFILE

N.T.S.



C.1.11

• STRUCTURAL
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Member			

RIVER PLACE ESTATES PHASE 2

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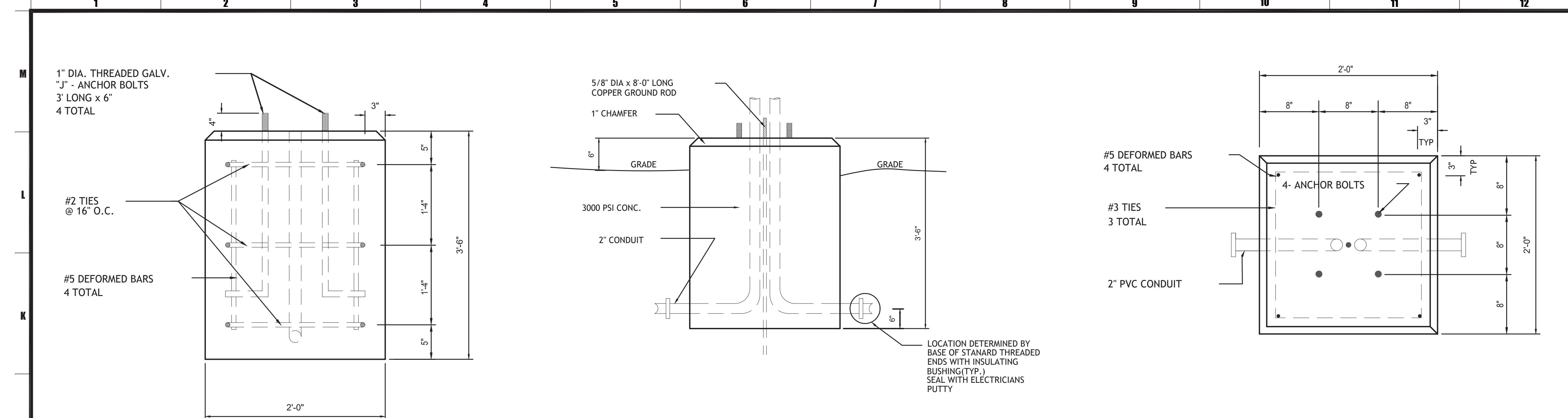
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date 08.13.2023
phase CD

RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA
LIGHTING PLAN

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO CONSTRUCT A COMPLETE UNDERGROUND SERVICE LIGHTING SYSTEM AS SHOWN IN THE PLANS AND SPECIFICATIONS AND TO COMPLY WITH THE CURRENT ST. CHARLES PARISH ORDINANCE.
- THE ELECTRICAL CONTRACTOR SHALL SECURE APPROVAL FOR HIS WORK IN WRITING FROM THE INSPECTING PARISH AGENCY AND PRESENT THE APPROVAL TO THE OWNER BEFORE REQUESTING FINAL PAYMENT.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND TAKE PRECAUTION TO PROTECT SAME.
- LIGHTING STANDARDS ARE TO BE SPUN ALUMINUM TAPERED POLES FROM 7" AT BASE TO 4" AT TOP.
- WIRE SIZE TO BE #8 COPPER STRANDED RHH/RHW USE CABLE 3 CONDUCTOR IN CONTINUOUS PVC FLEXIBLE DUCT OR CONDUIT.
- ENGINEER WILL ESTABLISH PROPERTY CORNERS. THE CONTRACTOR WILL BE REQUIRED TO FURNISH HIS OWN LAYOUT FOR STREET LIGHT STANDARDS.
- ALL WORK MUST CONFORM TO THE CURRENT ORDINANCE OF THE ELECTRICAL CODE FOR STREET LIGHTING IN THE PARISH OF ST. CHARLES PARISH.
- FEED POINTS FOR STREET LIGHT STANDARDS TO BE FURNISHED AS PER LP&L CO. STANDARDS (20.02.2).

- CONCRETE USED FOR CONSTRUCTION OF POLE FOUNDATIONS OR JUNCTION BOXES SHALL CONTAIN A MINIMUM OF FIVE AND ONE QUARTER (5 1/4) SACKS OF CEMENT PER CUBIC YARD AND SHALL DISPLAY A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. MAXIMUM SLUMP SHALL BE 5".
- SERVICE LINES TO FEED POINTS SHALL BE PROVIDED BY CONTRACTOR. CONNECTION AT STREET LIGHT FEED POINT SHALL BE MADE BY LP&L CO. SERVICE LINE CONNECTIONS SHALL BE COORDINATED WITH LP&L CO. AS PART OF CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR TO INSTALL 2" SCHEDULE 40 PVC CONDUIT UNDER ROADWAY PRIOR TO POURING CONCRETE STREET FOR FUTURE ELECTRICAL SERVICE TO STREET LIGHTS



LIGHT POLE FOUNDATION

ELECTRICAL PIPING IN FOOTING

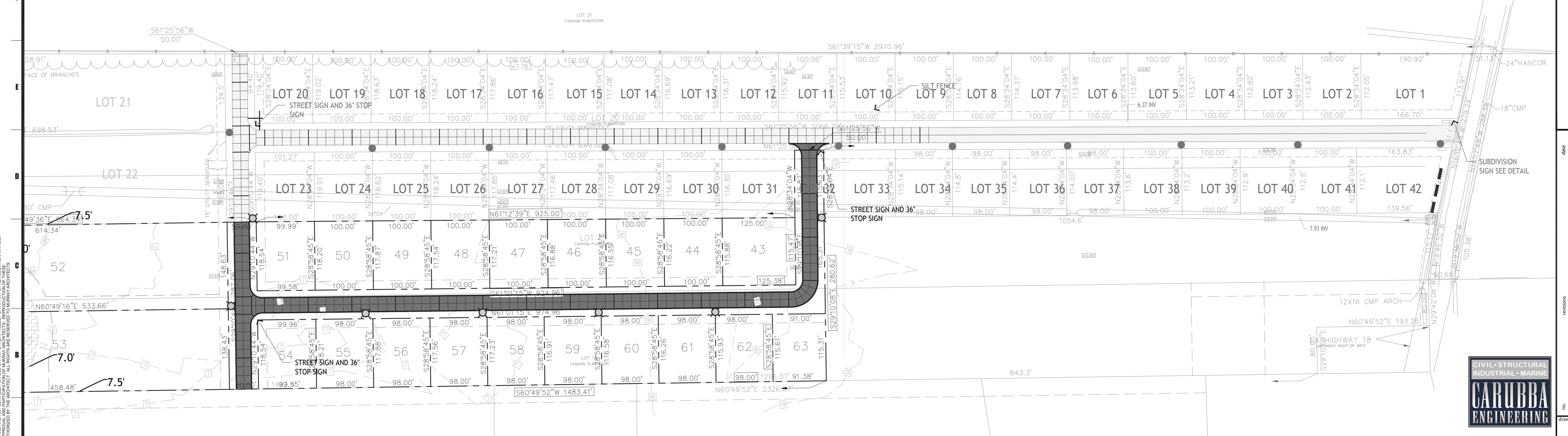
LIGHT POST FOUNDATION PLAN

- CONTRACTOR'S ATTENTION IS DIRECTED TO THE EXISTING UTILITIES SHOWN ON APPROVED CONSTRUCTION PLANS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND WHERE NECESSARY, PROTECT THE UTILITIES DURING CONSTRUCTION. UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ON STREET LIGHT FACILITIES BY PRIVATE DEVELOPERS WITHIN THE PARISH OF ST. CHARLES, PLANS AND SPECIFICATION SHALL BE SUBMITTED TO LOUISIANA POWER AND LIGHT AND TO THE DEPARTMENT OF PUBLIC WORKS OF THE PARISH OF ST. CHARLES FOR APPROVAL OF SAID PLANS AND SPECIFICATIONS FOR CONSTRUCTION.
- STREET LIGHT STANDARDS SHALL BE LOCATED 3'-6" FEET FROM BACK OF CURB OR AS DIRECTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH M.U.T.C.D.

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A-1 LIGHTING PLAN
1'=80'

C.1.12



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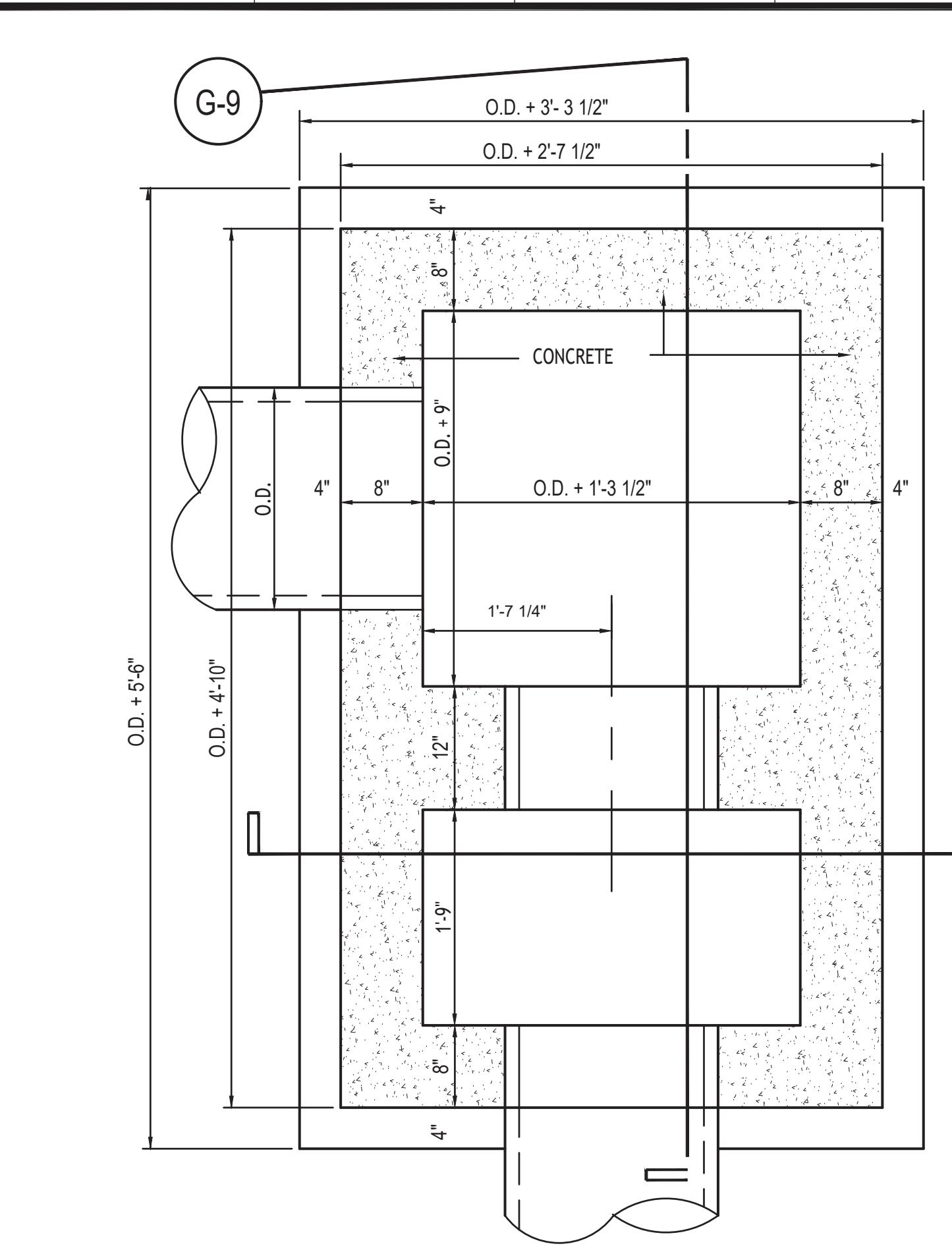
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date 08.13.2023
phase CD

RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA
Roll Over Drain Inlet

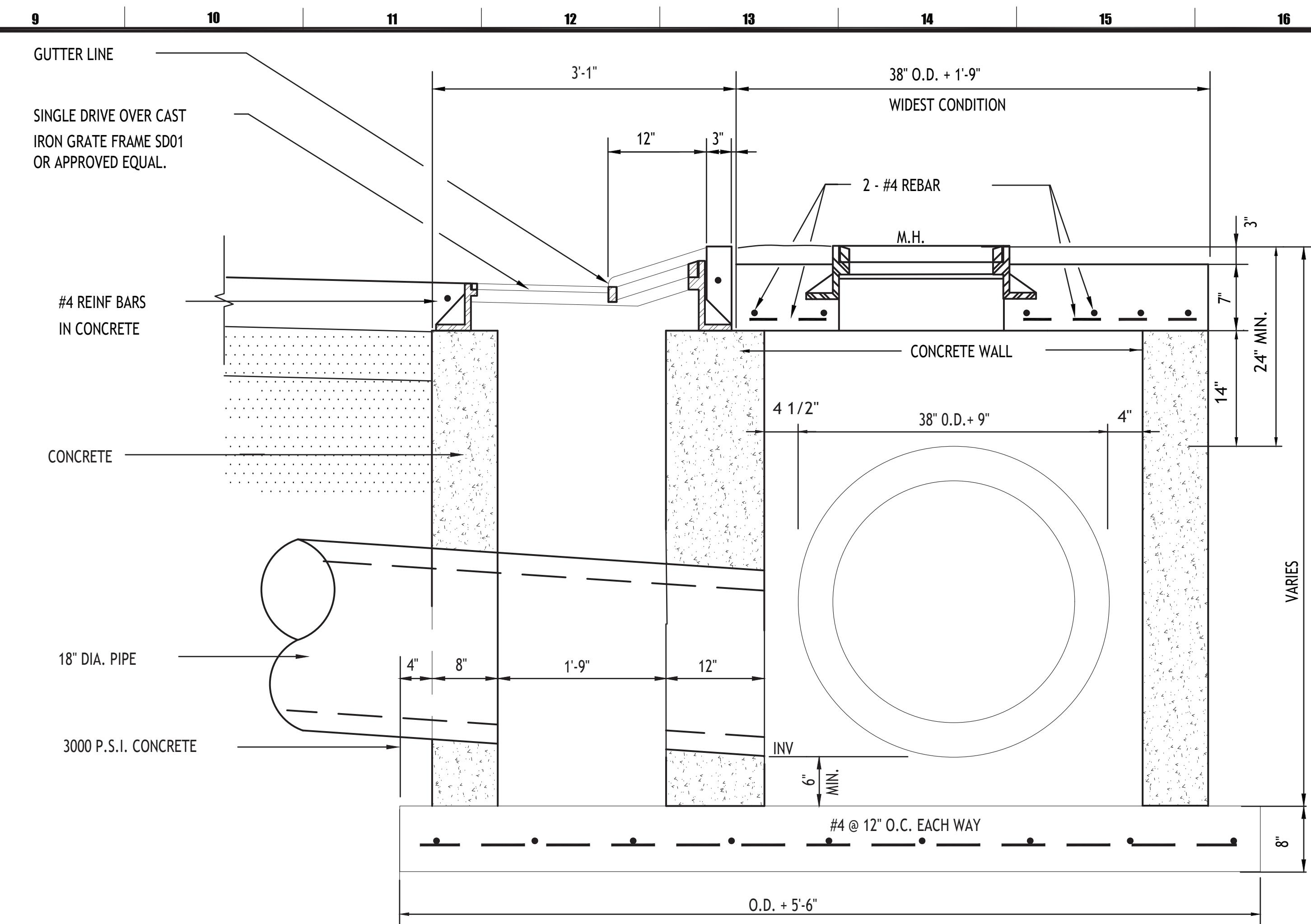
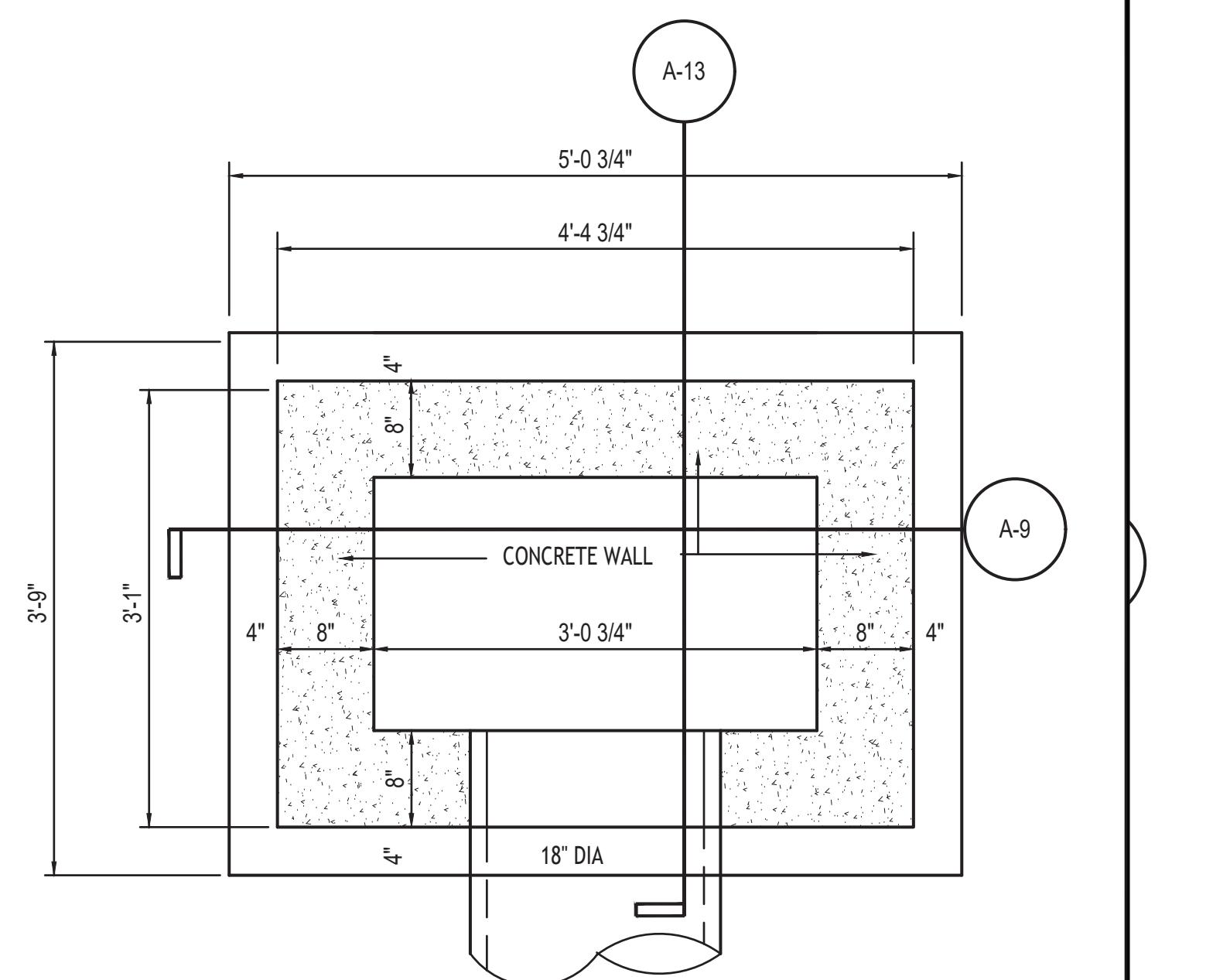
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drawing number
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C.1.13



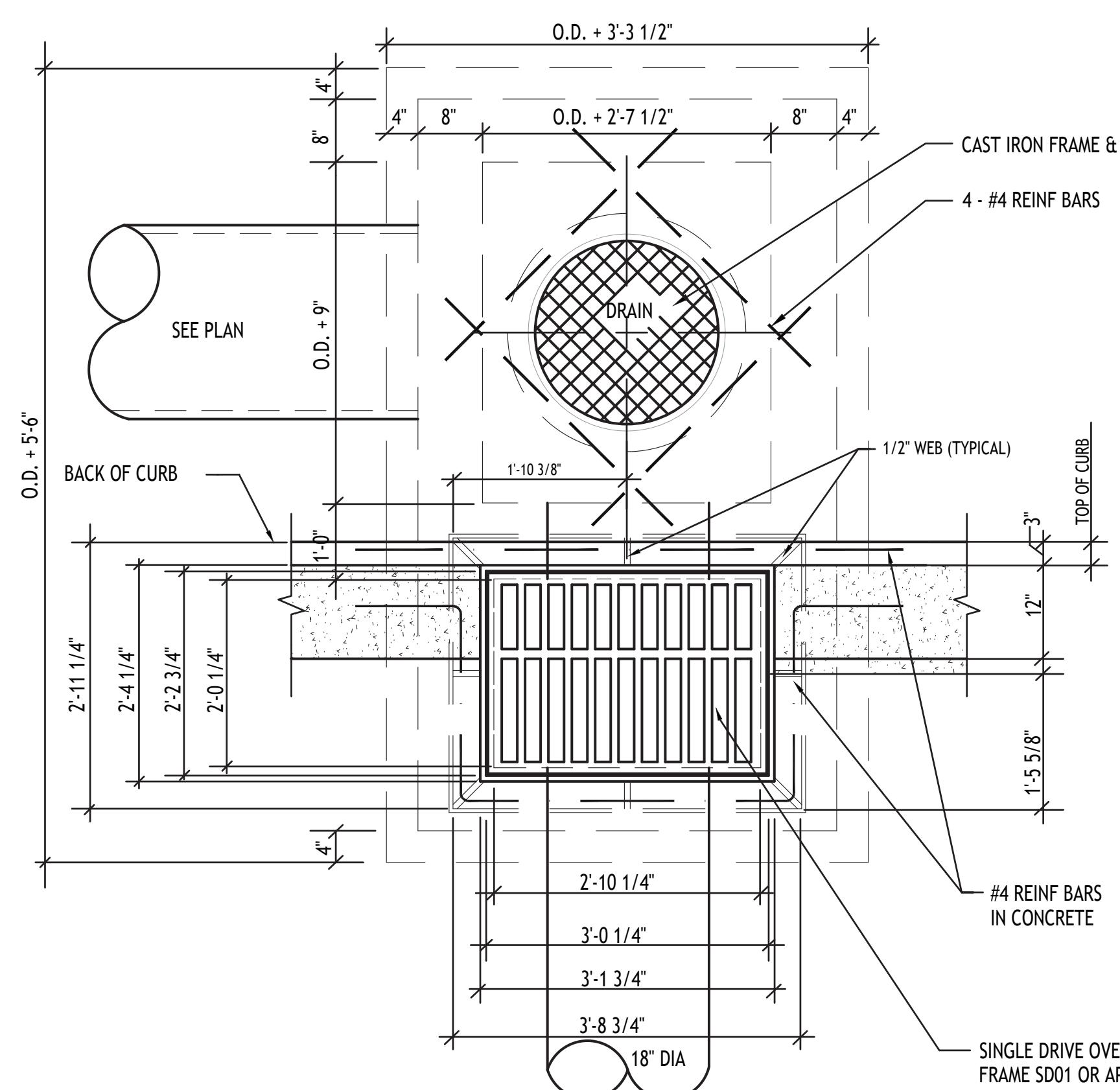
G-1 STANDARD CATCH BASIN FOUNDATION PLAN

N.T.S



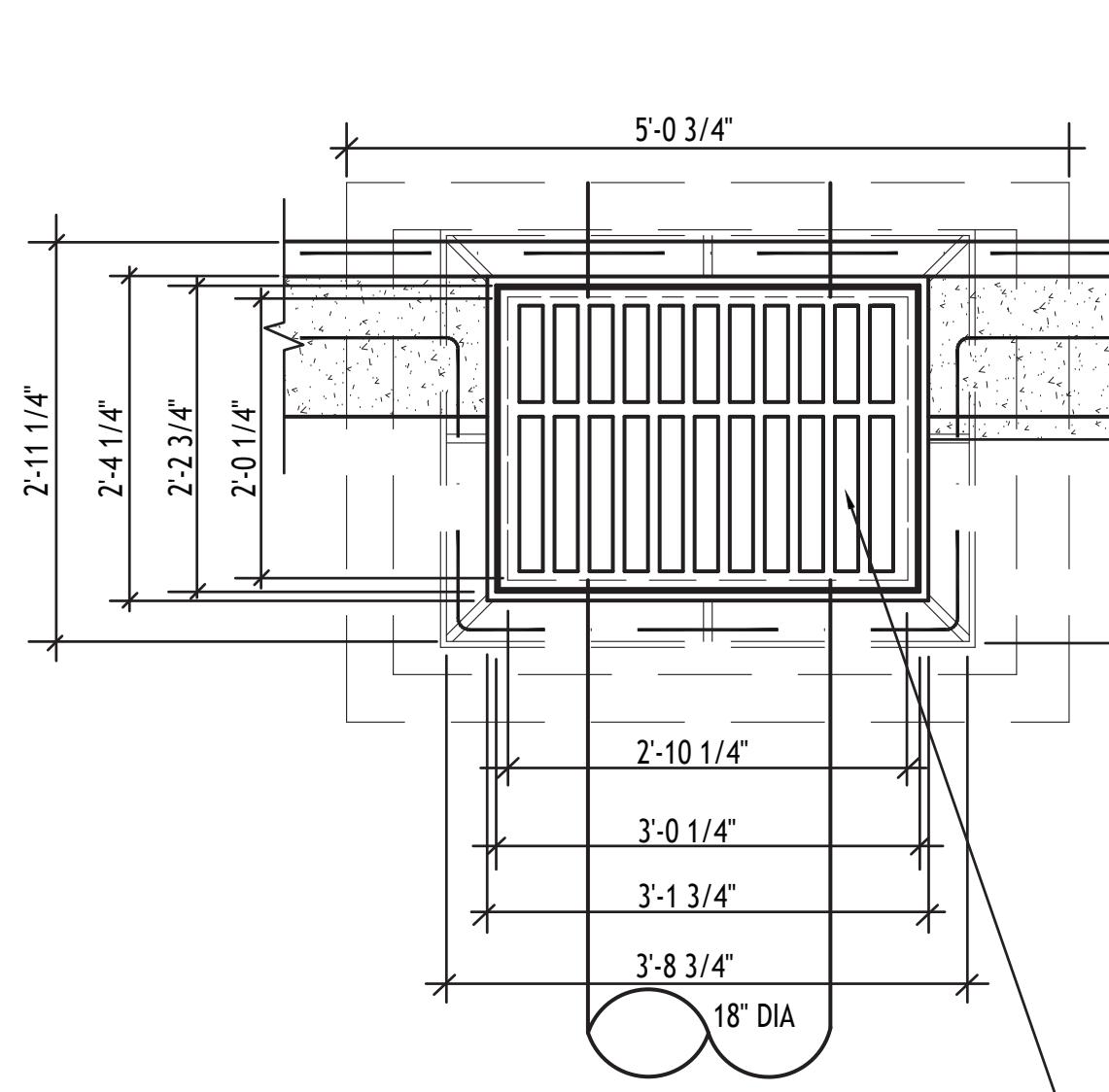
A-9 TYPICAL STANDARD CATCH BASIN SECTION

N.T.S

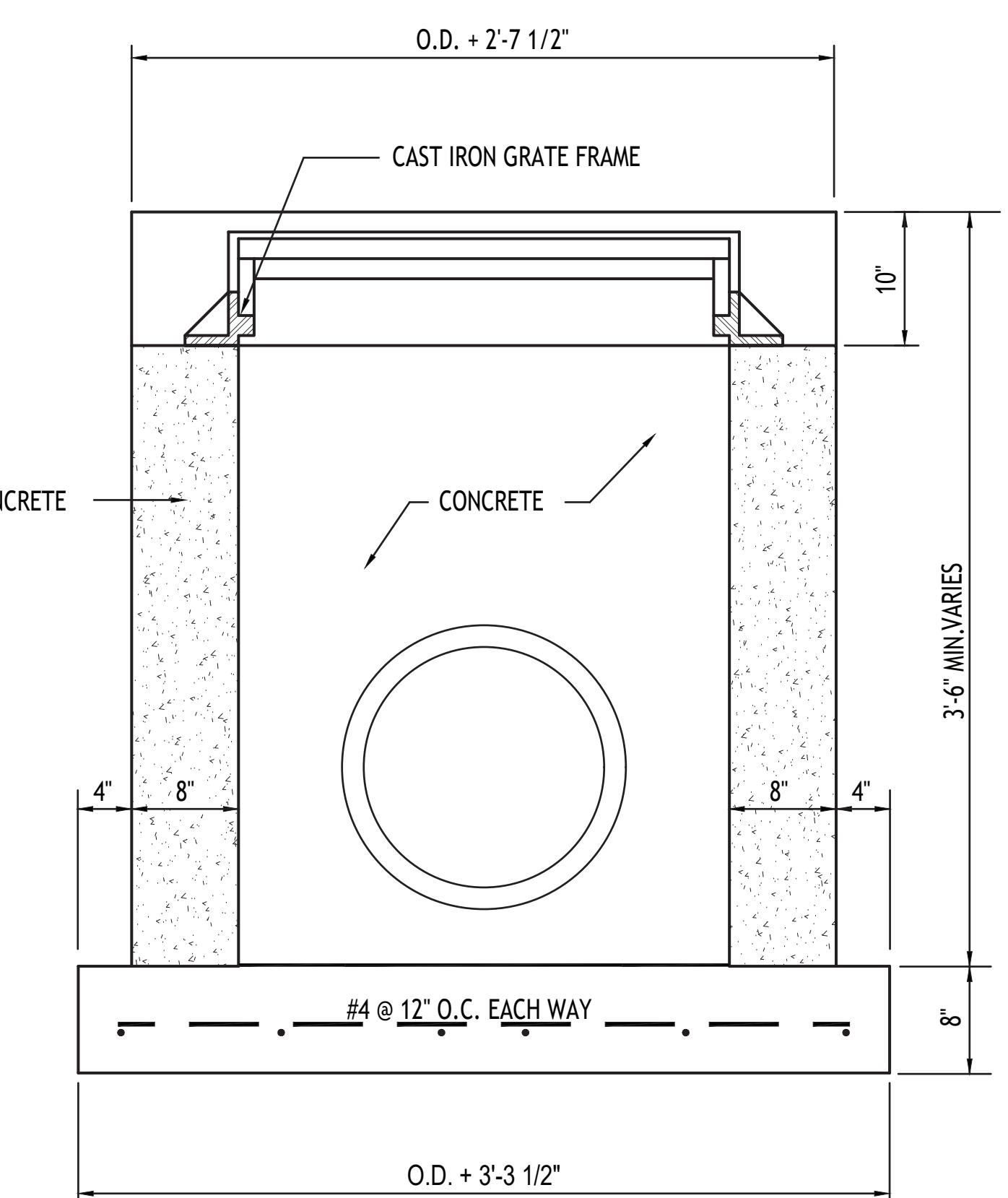


A-1 STANDARD CATCH BASIN PLAN

N.T.S

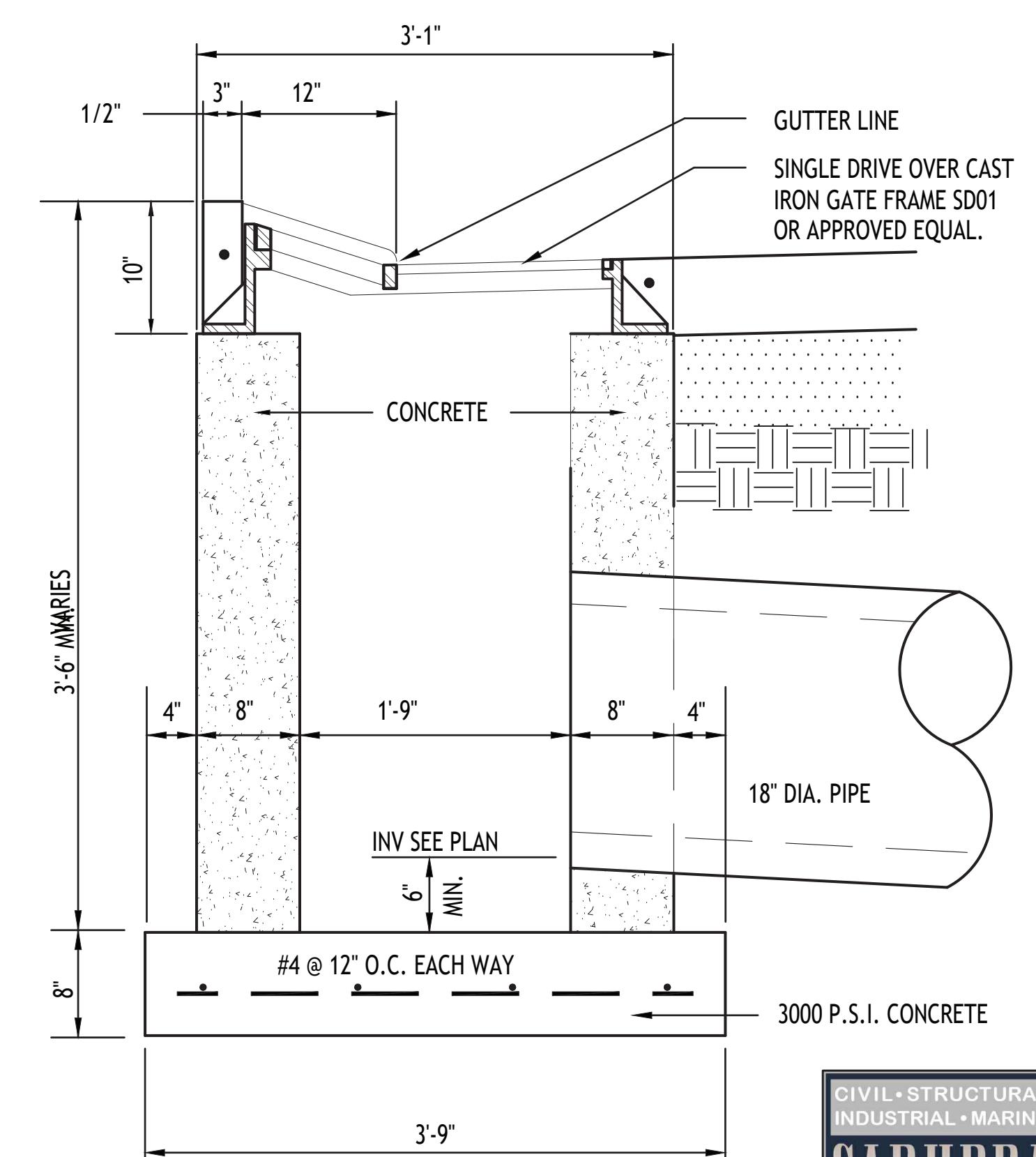


O.D. - OUTSIDE DIAMETER OF PIPE



A-9 TYPICAL STANDARD CATCH BASIN SECTION

N.T.S



C.1.13

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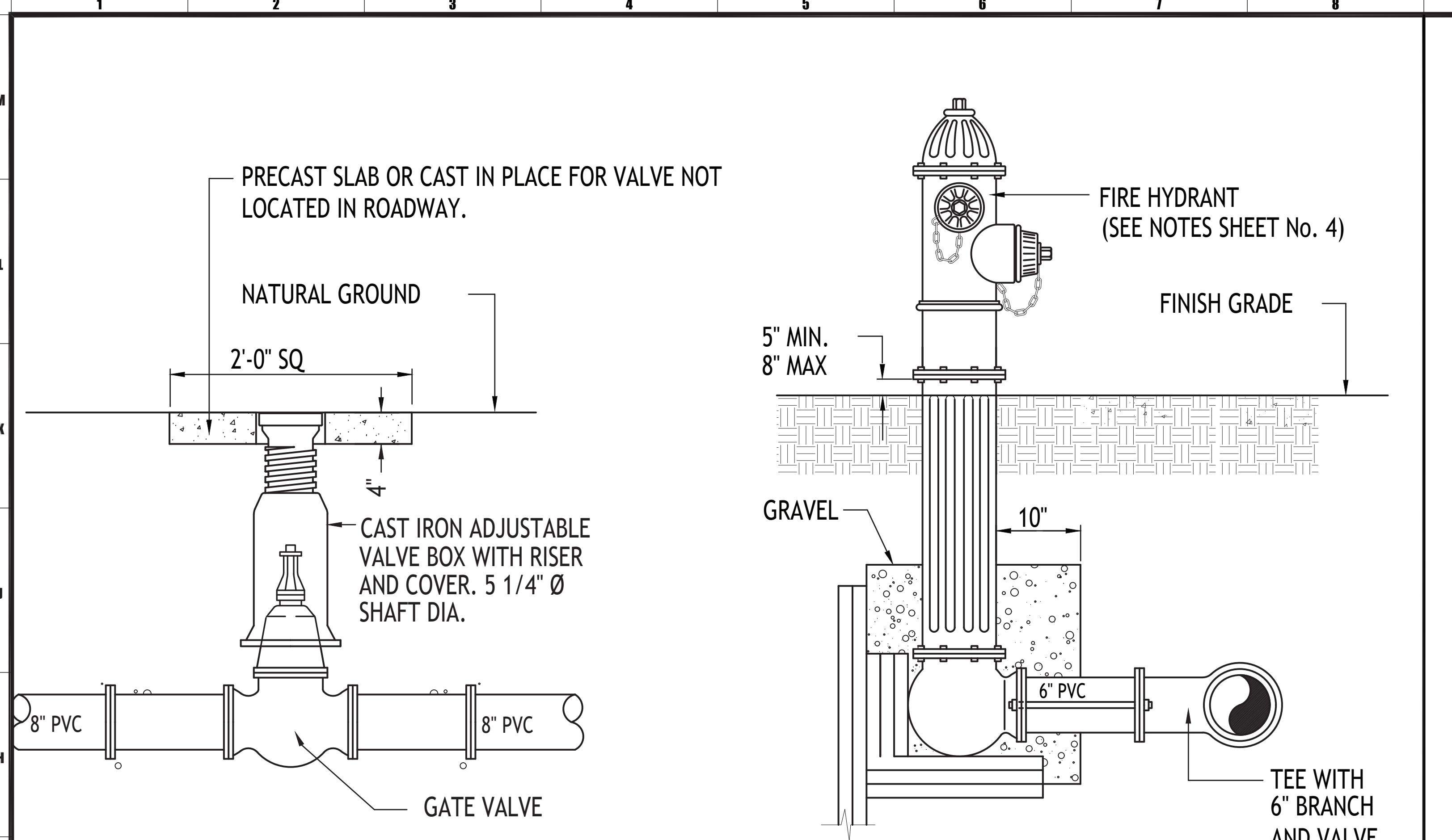
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date 08.13.2023
phase CD

RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA
DETAILS

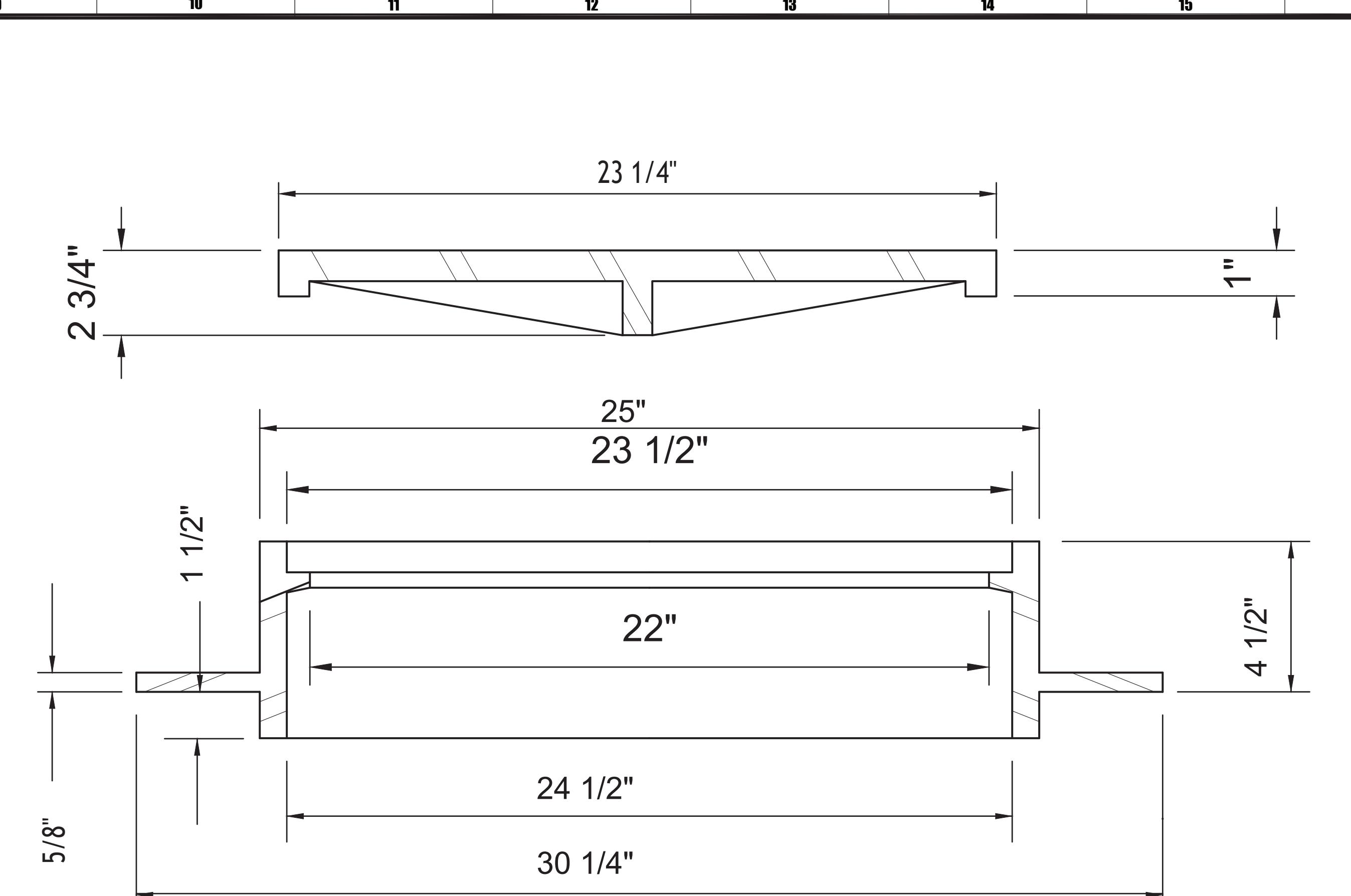
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C.1.14



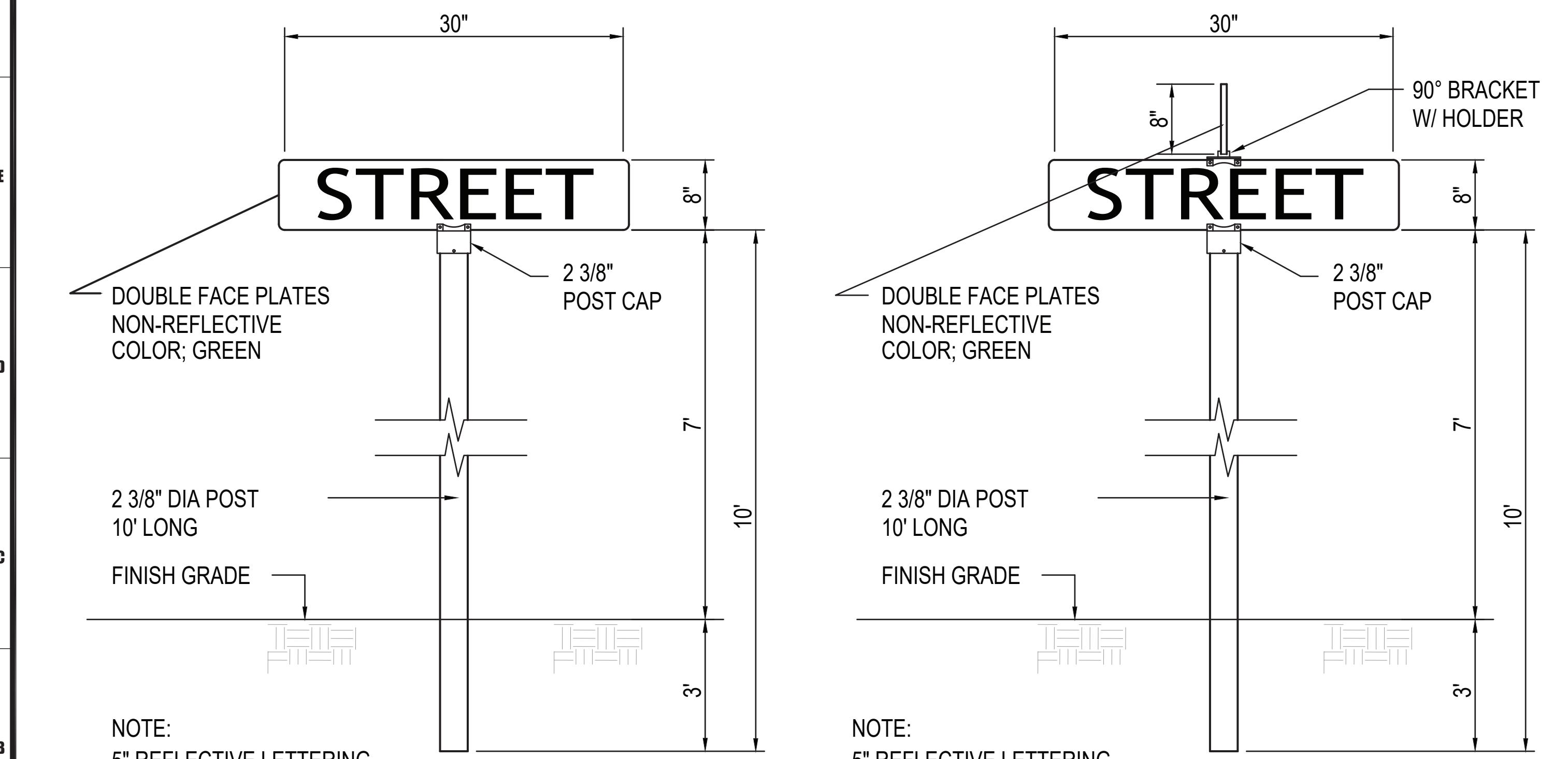
G-1 GATE VALVE AND FIRE HYDRANT DETAIL

N.T.S.



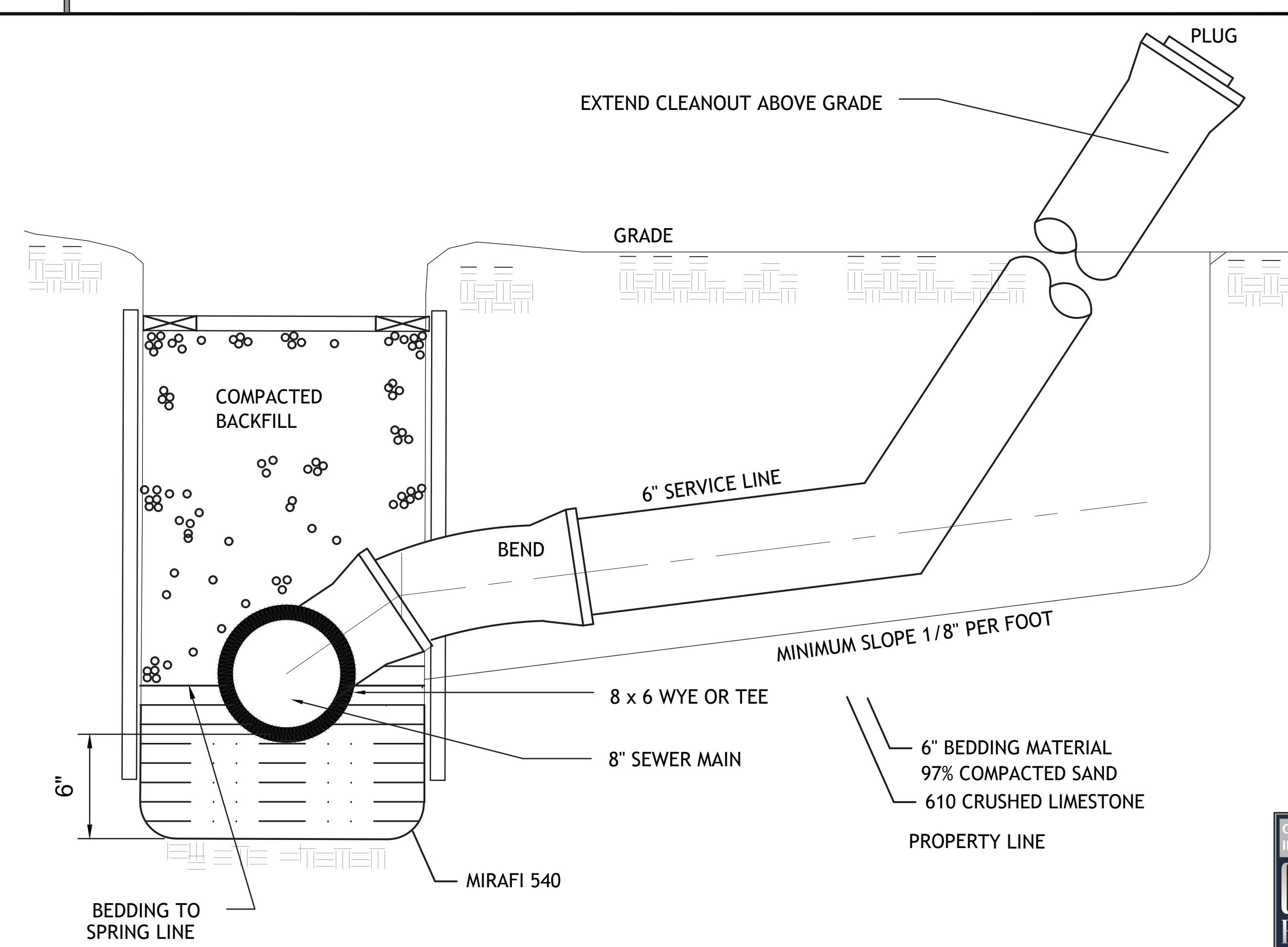
G-9 STANDARD MANHOLE COVER AND FRAME

N.T.S.



A-1 STREET SIGN DETAIL

N.T.S.

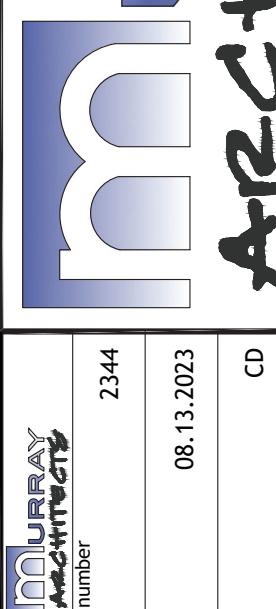


A-9 SERVICE CONNECTION / SECTION

N.T.S.

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RIVER PLACE ESTATES PHASE 2

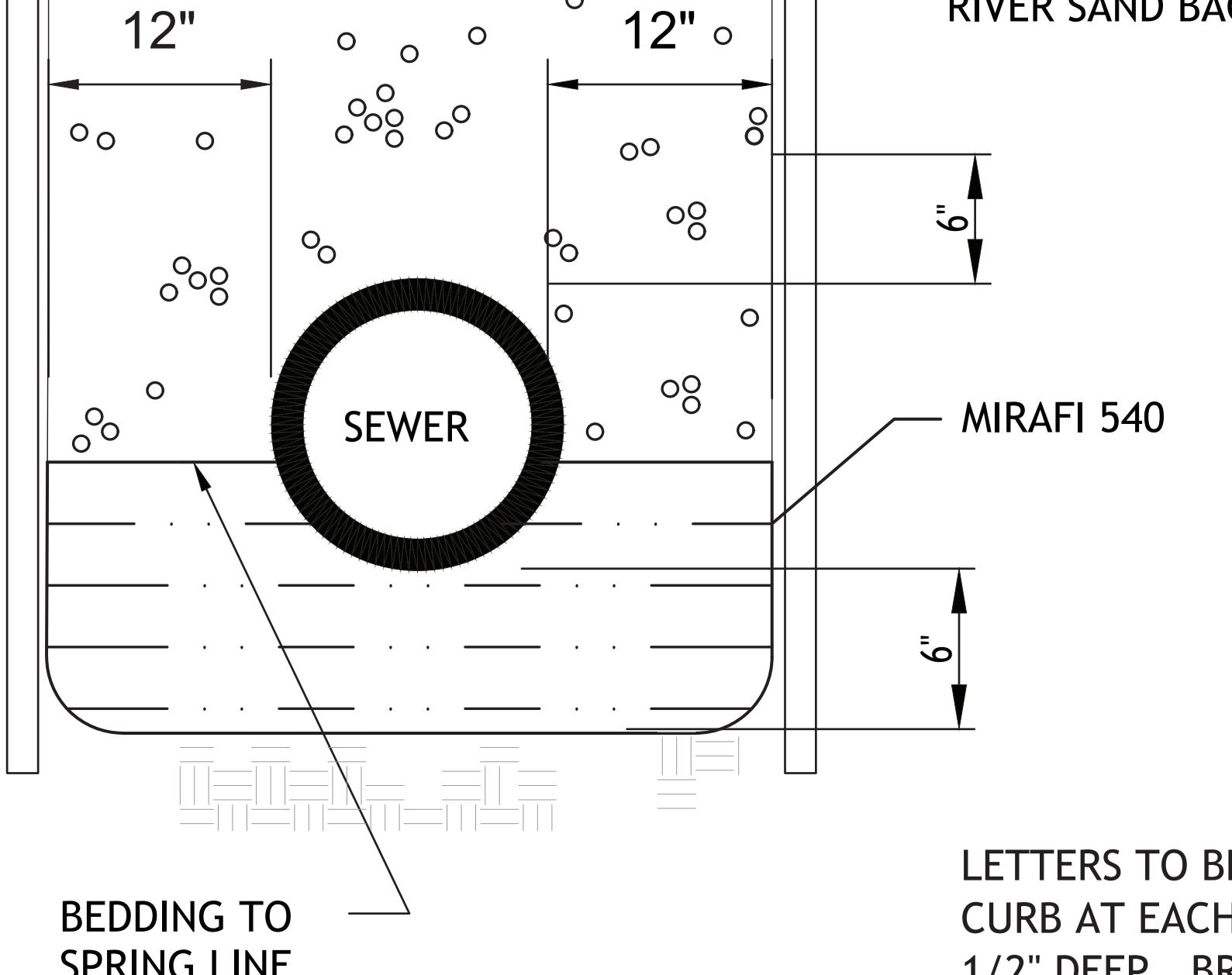
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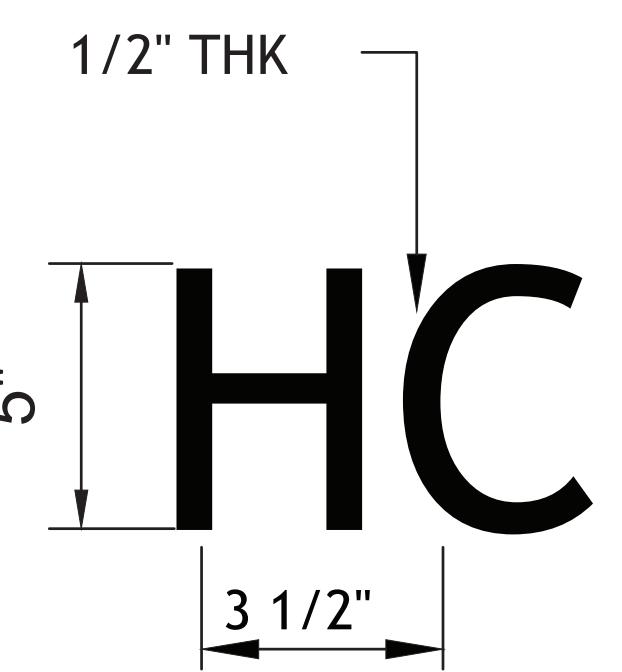
BRACING IF REQUIRED

SHEETING OR OTHER METHODS AS
REQUIRED TO MAINTAIN ALLOWABLE
TRENCH WIDTH 2" THICK MIN. BOARD



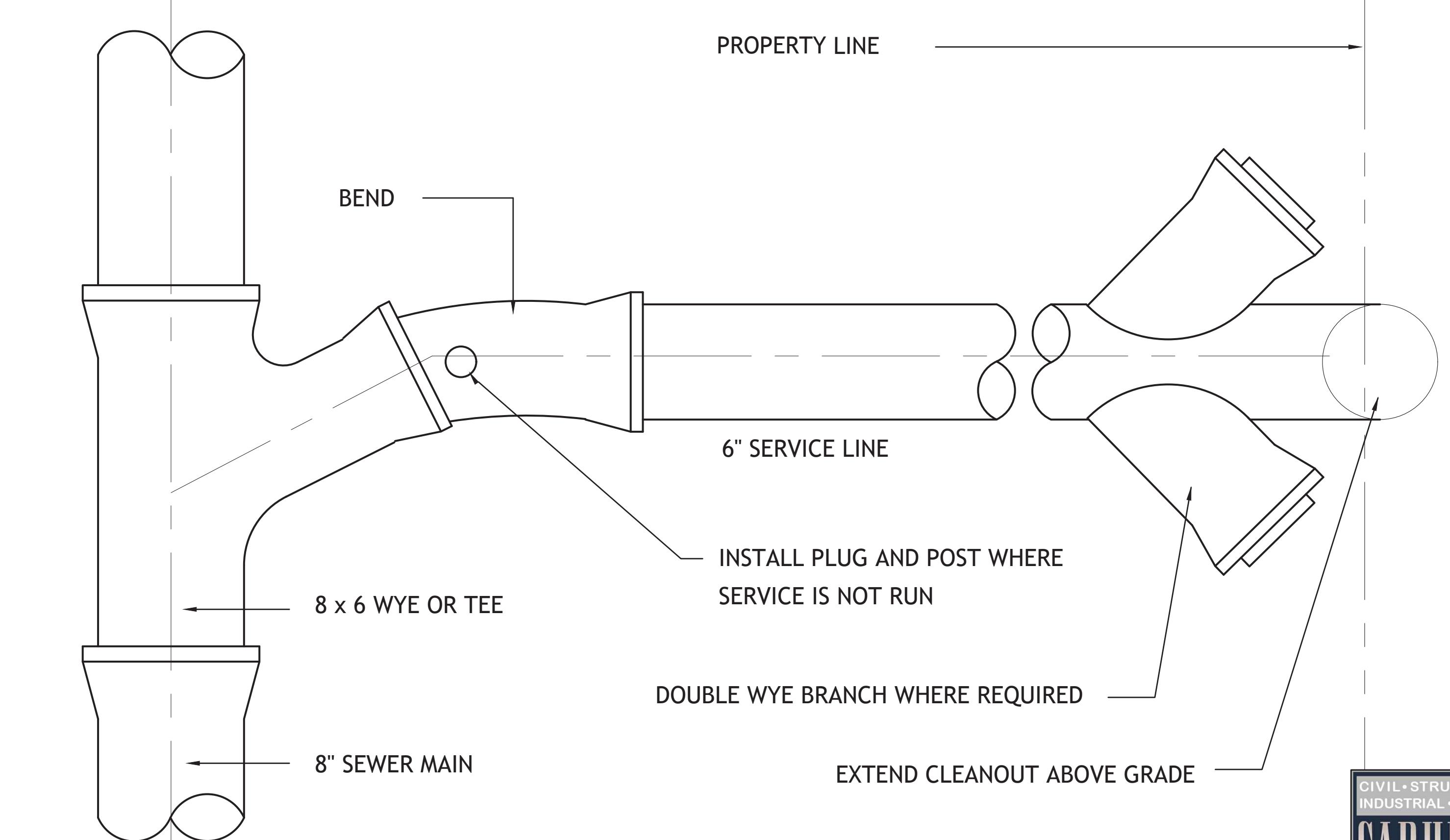
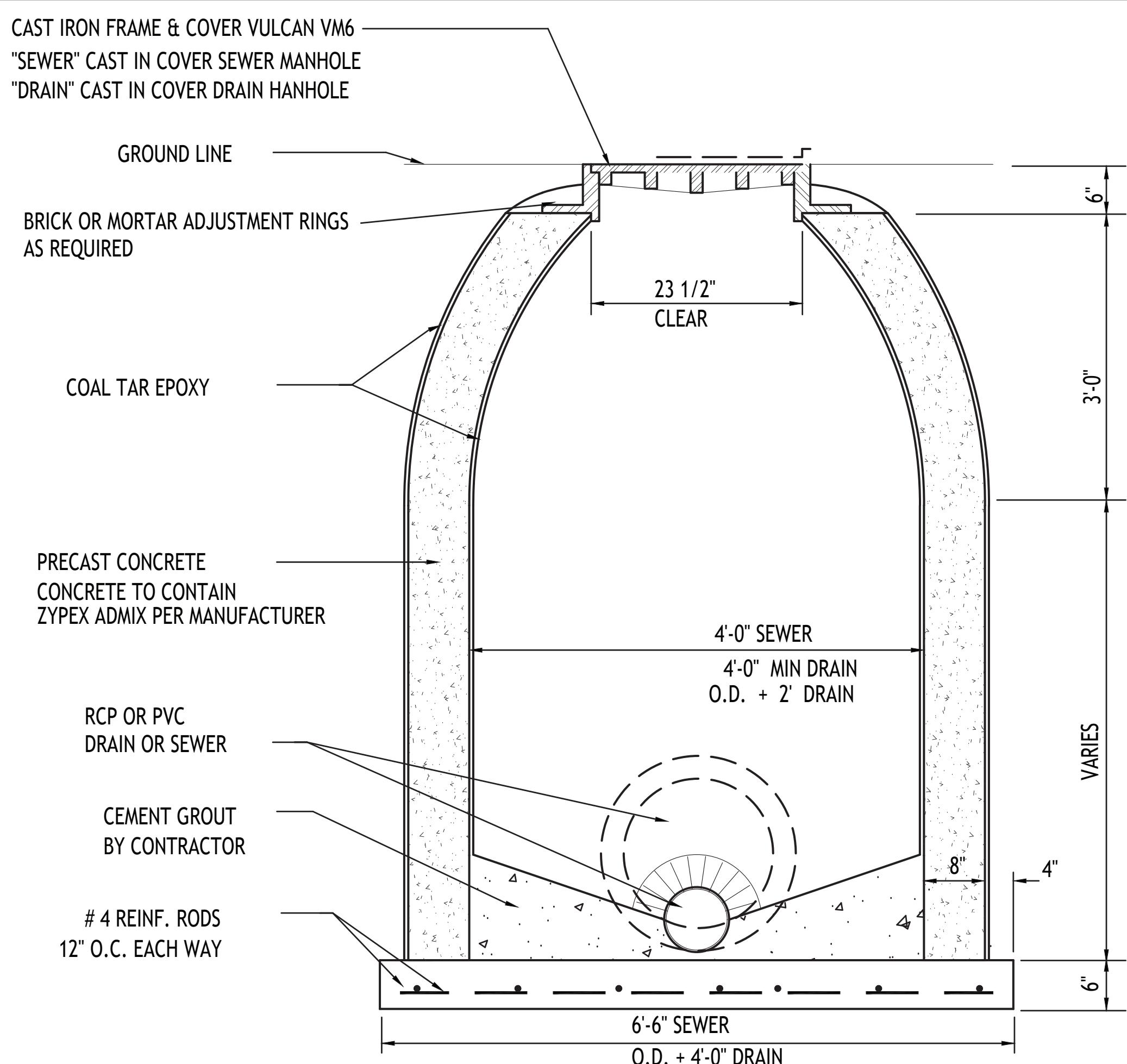
BEDDING TO
SPRING LINE

LETTERS TO BE IMPRESSED IN FACE OF ROLLOVER
CURB AT EACH HOUSE CONNECTION. IMPRESS
1/2" DEEP. BRAND TO BE MADE BY CONTRACTOR
AND APPROVED BY ENGINEER.



G-9 TRENCH DETAIL AND SEWER CONNECTION LABEL

N.T.S



A-9 SERVICE CONNECTION - DIAGRAM

N.T.S

A-1 STANDARD MANHOLE SECTION

N.T.S

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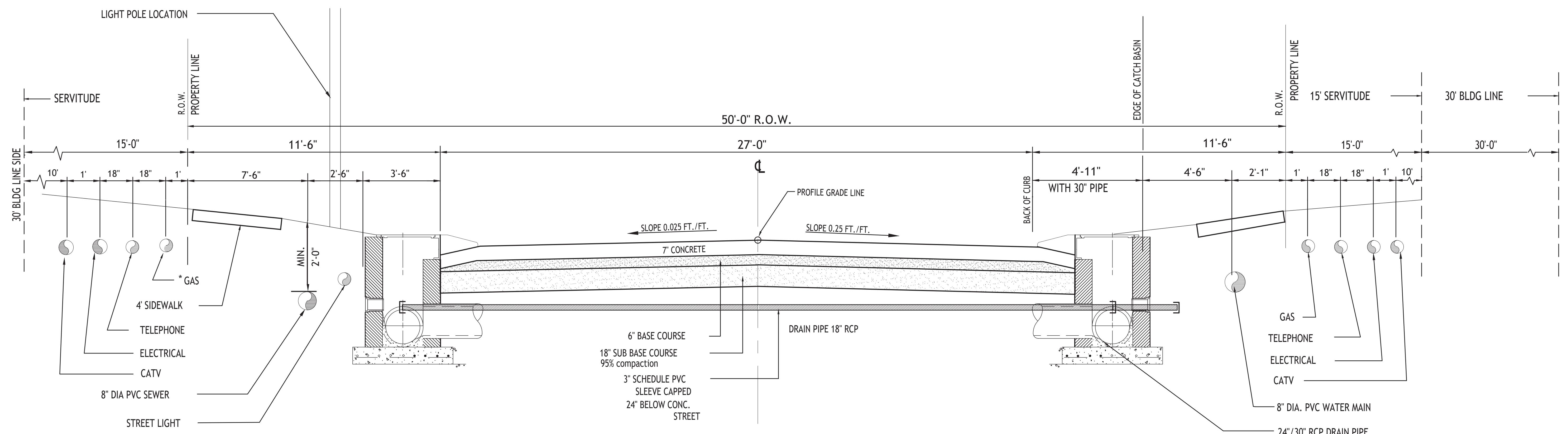
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RIVER PLACE ESTATES PHASE 2
HAINVILLE, LOUISIANA

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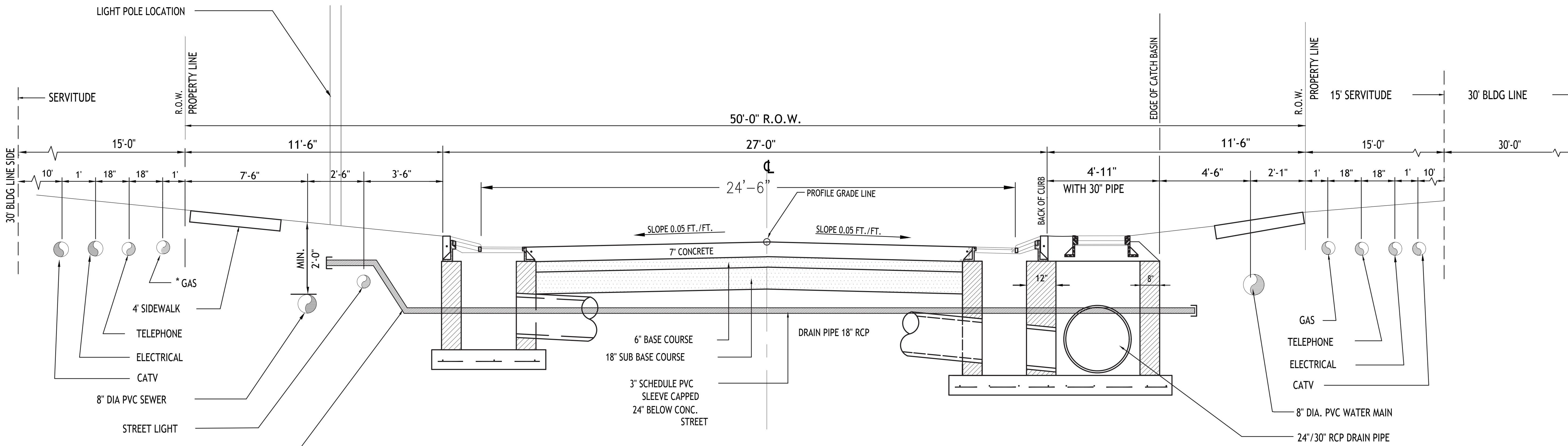
C.1.16



*3000 LB CONC. SIDEWALK NOT TO BE INSTALLED BY CONTRACTOR SELECTED TO DO STREET WORK,
HOWEVER, BY INDIVIDUAL LOT OWNERS AS PART OF THE DEVELOPMENT.
EXPANSION JOINTS WILL BE PROVIDED EVERY 100 FEET AND CONTRACTION JOINTS WILL BE SPACED EVERY 4 FEET
LIGHT POLE LOCATIONS SEE LIGHTING PLAN

A-1 TYPICAL ROADWAY SECTION WITH VERTICAL DRAIN INLET

N.T.S.



*3000 LB CONC. SIDEWALK NOT TO BE INSTALLED BY CONTRACTOR SELECTED TO DO STREET WORK,
HOWEVER, BY INDIVIDUAL LOT OWNERS AS PART OF THE DEVELOPMENT.
EXPANSION JOINTS WILL BE PROVIDED EVERY 100 FEET AND CONTRACTION JOINTS WILL BE SPACED EVERY 4 FEET
LIGHT POLE LOCATIONS SEE LIGHTING PLAN

A-1 TYPICAL ROADWAY SECTION WITH STANDARD DRAIN INLET

N.T.S.