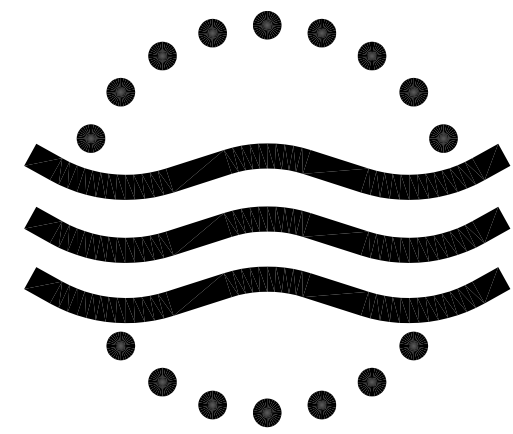


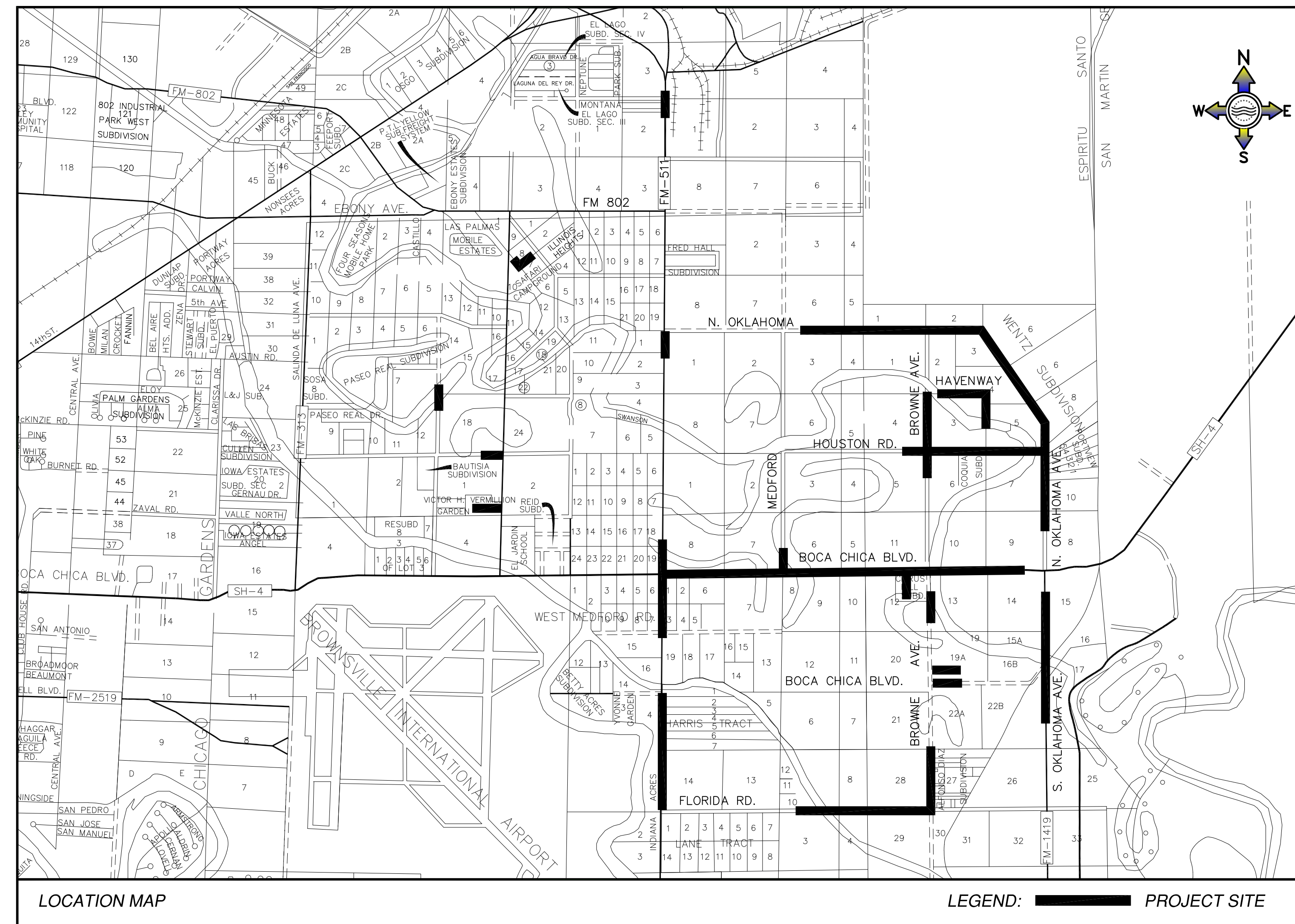
# CONSTRUCTION PLANS FOR CAMERON COUNTY CEDAP PHASE 2 FM 511-802 HOME YARDLINE CONNECTIONS BID #190801



**BROWNSVILLE  
PUBLIC UTILITIES BOARD**

Board of Directors

- JUDE BENAVIDEZ.....MEMBER
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- ARMANDO MAGALLANES.....MEMBER
- ANNA E. OQUIN.....MEMBER
- MAYOR TREY MENDEZ.....EX-OFFICIO MEMBER



LOCATION MAP

LEGEND:  PROJECT SITE



ALFREDO J. RESENDEZ, P.E.



CAMERON COUNTY COMMISSIONS COURT

- HONORABLE EDDIE TREVIÑO, JR. ....COUNTY JUDGE
- SOFIA C. BENAVIDES.....COUNTY COMMISSIONER, Pct. 1
- JOEY LOPEZ.....COUNTY COMMISSIONER, Pct. 2
- DAVID A. GARZA.....COUNTY COMMISSIONER, Pct. 3
- GUSTAVO C. RUIZ.....COUNTY COMMISSIONER, Pct. 4
- PETE SEPULVEDA.....INTERIM COUNTY ADMINISTRATOR

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**CONSTRUCTION NOTES**

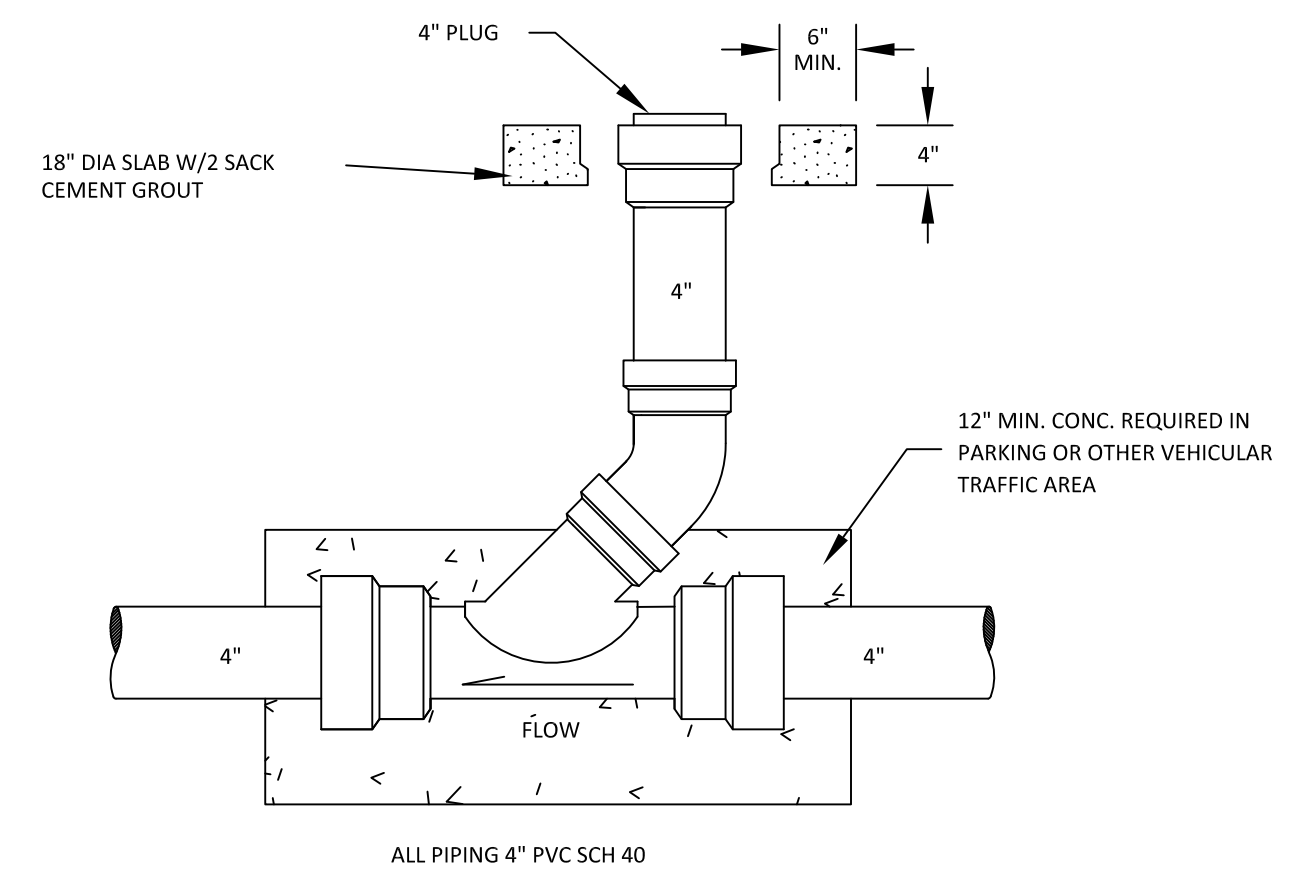
1. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER, CONTRACTOR, PUBLIC UTILITIES, AND ALL OTHER AFFECTED PARTIES.
2. THE CONTRACTOR SHALL HAVE TWO PERSONS (ONE PRIMARY AND ONE SECONDARY) ON CALL 24 HOURS A DAY, SEVEN DAYS A WEEK TO TAKE CARE OF MAINTENANCE ITEMS - CONSTRUCTION AREA, SIGNAGE, DRAINAGE, ETC. THESE PERSONS SHALL HAVE THE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR IN EMERGENCY CONDITIONS. THE PERSONS SHALL BE STATIONED CLOSE ENOUGH TO BE ON THE PROJECT SITE WITHIN 30 MINUTES OF NOTIFICATION. THE PERSONS SHALL BE IDENTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. THE ON-SITE REPRESENTATIVES SHALL HAVE ACCESS TO ALL EQUIPMENT AND MATERIAL AND HAVE FULL AUTHORITY NECESSARY TO CORRECT ANY PROBLEMS, DEFICIENCIES, OR EMERGENCIES WHICH MAY ARISE DURING NON-WORKING HOURS, AND DURING THE ABSENCE OF THE SUPERINTENDENT.
3. THE CONTRACTOR SHALL KEEP PUBLIC ROADS OPEN AT ALL TIMES. AREAS USED FOR THE CONTRACTOR'S PERSONNEL PARKING, MATERIAL STORAGE, MATERIAL FABRICATION, AND RELATED CONSTRUCTION USES ARE NOT TO INTERFERE WITH NORMAL TRAFFIC FLOW.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES DURING CONSTRUCTION. ONLY TEMPORARY CLOSURE OF DRIVEWAYS WILL BE PERMITTED. THE CONTRACTOR SHALL PROVIDE SERVICES TO ACCOMMODATE RESIDENCE DURING THE TEMPORARY CLOSURE OF DRIVEWAYS. NO SEPARATE PAYMENT.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY GATES AND VEHICLES ENCOUNTERED WITHIN THE PROPOSED WORK AREA. THE CONTRACTOR SHALL NOTIFY THE OWNER AND IF THE OWNER DOES NOT REMOVE THE VEHICLES WITHIN TWO CALENDAR DAYS, THEN THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE POLICE OR SHERIFF DEPARTMENT TO HAVE THE LAW ENFORCEMENT PERSONNEL REMOVE THE CAR FROM THE PUBLIC RIGHT-OF-WAY.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, AND ALL UTILITY COMPANIES PRIOR TO BEGINNING OF CONSTRUCTION IN A PARTICULAR AREA. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED ONLY TO THE CONTRACTOR SHALL BE OBTAINED AT HIS EXPENSE. NO SEPARATE PAYMENT.
8. **UTILITY NOTES:** THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, HORIZONTAL AND VERTICAL OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. NO SEPARATE PAYMENT.
9. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL NOT BLOCK DRAINAGE FROM ADJACENT AREAS NOR ADD FLOW TO ADJACENT AREAS. THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR IS TO ASSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED.
10. ALL EXCESS EXCAVATED MATERIAL AND SPOIL TO BECOME PROPERTY OF THE CONTRACTOR AND TO BE REMOVED FROM THE PROJECT SITE AT HIS OWN EXPENSE.
11. DAMAGES DONE TO EXISTING UTILITIES, POWER POLES, FENCES, SIGNS, MAILBOXES, DRIVEWAYS, CULVERTS, PAVEMENT, DRAINAGE SYSTEMS, LANDSCAPING, ETC. (ALL PUBLIC AND PRIVATE IMPROVEMENTS), SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL MATCH EXISTING IMPROVEMENTS, PAVEMENTS, SIDEWALKS, LANDSCAPING, OR OTHER IMPROVEMENT ON A LIKE-FOR-LIKE BASIS. ALL CONCRETE AND ASPHALT PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE SAW-CUT IN A STRAIGHT NEAT LINE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO VARIOUS OTHER ITEMS IN THE BID SCHEDULE.
12. ALL EXISTING MAILBOXES THAT NEED TO BE TEMPORARILY RELOCATED SHALL BE PLACED IN THE SAME LOCATION FOUND UPON COMPLETION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE MAILBOXES ARE NOT DAMAGED DURING CONSTRUCTION OR RELOCATION. MAILBOXES WILL BE TEMPORARILY RELOCATED AS REQUIRED BY THE U.S. POSTAL SERVICE FOR THE DURATION OF CONSTRUCTION.
13. THE CONTRACTOR OPERATIONS MUST BE CONDUCTED TO PREVENT UNNECESSARY INTERFERENCE WITH ANY EXISTING UTILITY SYSTEM. IF THE UTILITY MUST BE TEMPORARILY TAKEN OUT OF SERVICE THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE OWNER, AND THE UTILITY OWNER AT LEAST 24 HOURS PRIOR TO INTERFERING WITH ANY UTILITY SERVICE.
14. CONTRACTOR SHALL NOT ALLOW SAND, DEBRIS OR RUNOFF TO ENTER SEWER SYSTEM.
15. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH OSHA STANDARDS AND FOR CONFINED SPACE INCLUDING A MONITOR FOR AIR AND EQUIPMENT FOR BREATHING AIR AND RETRIEVING SYSTEMS.
16. CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE DIVERSION PUMPING EQUIPMENT AS NEEDED TO MAINTAIN SEWAGE FLOW AND TO PREVENT BACKUP OR OVERFLOW AT ALL TIMES.
17. IN THE EVENT OF ACCIDENTAL SPILL OR OVERFLOW, IMMEDIATELY STOP THE OVERFLOW AND TAKE ACTION TO CLEAN UP AND DISINFECT SPILLAGE. PROMPTLY NOTIFY P.U.B. SO THAT REQUIRED REPORTING CAN BE MADE TO THE TCEQ AND ENVIRONMENTAL PROTECTION AGENCY.
18. **MATERIAL CERTIFICATION AND TESTING:** THE CONTRACTOR SHALL PROVIDE SUPPLIER CERTIFICATION FOR ALL PROJECT MATERIALS CONCRETE, LIME, FLEXIBLE BASE, PRE-CAST INLETS, PIPES, VALVES, FITTINGS, MANHOLES, ETC. THAT SUCH MATERIALS DO MEET PROJECT SPECIFICATIONS PRIOR TO DELIVERY ON-SITE. THE CONTRACTOR SHALL PROVIDE HOT MIX ASPHALTIC CONCRETE DESIGN FROM A REPUTABLE COMMERCIAL TESTING LABORATORY. THE OWNER WILL PROVIDE ALL ON-SITE TESTING OF MATERIALS AND FIELD DENSITIES. ANY RE-TESTING DUE TO FAILURE OF INITIAL TESTING WILL BE CHARGED TO THE CONTRACTOR. THE CONTRACTOR SHALL GIVE THE TESTING LABORATORY A MINIMUM OF 24 HOURS PRIOR NOTICE FOR ALL TESTING TO BE CONDUCTED IN THE FIELD. THE CONTRACTOR SHALL PROVIDE THE TESTING LABORATORY WITH CONSTRUCTION MATERIALS, WHICH NEEDS LABORATORY TESTING, A MINIMUM OF ONE WEEK PRIOR TO ANY FIELD TESTING BEING CONDUCTED.
19. EL JARDIN WATER SUPPLY CORPORATION (WSC) INDICATES THEIR WATER MAINS ARE 5 FEET INSIDE THE ROAD RIGHT-OF-WAY LINE. THESE WATERLINES VARY IN DEPTH FROM 30-INCHES TO 48-INCHES OF COVER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE EL JARDIN WSC SPOT THE LINES (WATER MAINS, SERVICE LATERALS, AND WATER METERS) AND VERIFY THE DEPTHS OF THE WATER LINE PRIOR TO BEGINNING WORK IN THE AREA.
20. ALL SEWER SERVICE LINES SHALL MAINTAIN A MINIMUM DISTANCE OF 5 FEET FROM ANY WATER SERVICE LINE OR DISTRIBUTION LINE.
21. ALL SEWER LATERALS SHALL BE INSTALLED WITH AT LEAST 5-FEET HORIZONTAL AND 1-FOOT LOWER THAN ANY WATER METER OR SERVICE LINE, AS PER THE SOUTHERN BUILDING CODE CRITERIA.
22. ALL DEVIATIONS FROM THE PROJECT PLANS AND SPECIFICATIONS MUST BE APPROVED IN WRITTEN FORM BY THE ENGINEER AND THE OWNER PRIOR TO CONSTRUCTION OF SUCH DEVIATIONS. DEVIATIONS MADE WITHOUT WRITTEN APPROVAL SHALL BE AT THE CONTRACTOR'S EXPENSE WITHOUT ANY ADDITIONAL COMPENSATION AND MAY RESULT IN A DECREASE IN THE CONTRACT PRICE IF THE DEVIATION RESULTS IN ELIMINATION OR REDUCTION OF BID ITEMS.
23. UPON COMPLETION OF THE IMPROVEMENTS IN EACH ROADWAY (INCLUDING DRIVES), THE CONTRACTOR SHALL CONDUCT ALL PAVEMENT REPAIRS REQUIRED FOR SUCH ROADWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS CAUSED BY CONSTRUCTION MACHINERY AND ANY RAVELING OF THE TRENCH PAVEMENT EDGE DUE TO NORMAL TRAFFIC. NO SEPARATE PAYMENT.
24. CONTRACTOR SHALL VERIFY FLOWLINES OF EXISTING ROADSIDE DITCHES, DRIVEWAY CULVERTS AND SAFETY END TREATMENTS PRIOR TO CONSTRUCTION IN THE AREA. CONTRACTOR SHALL REINSTALL EXISTING IMPROVEMENTS TO MATCH PRECONSTRUCTION CONDITIONS (INCLUDING ROADSIDE DITCHES, DRIVEWAYS, DRIVEWAY CULVERTS AND SAFETY END TREATMENTS). IF NOT INCLUDED IN THE BID SCHEDULE, THE COST SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
25. **AS BUILT DRAWINGS:** THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SET OF AS-BUILT PLANS SHOWING NOTES TO ANY CHANGES TO THE DESIGN PLANS. THIS INFORMATION, SIGNED BY ALL INSPECTORS, WILL BE SUBMITTED TO THE ENGINEER AT THE END OF CONSTRUCTION. THE PROJECT'S FINAL ACCEPTANCE AND FINAL PAYMENT WILL NOT BE APPROVED UNTIL THE CONTRACTOR HAS SUBMITTED THE REQUIRED INFORMATION NEEDED BY THE ENGINEER FOR AS-BUILT DRAWINGS.
26. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DEBRIS ENCOUNTERED WITHIN THE PROPOSED WORK AREA. IF THE OWNER REFUSES TO REMOVE THE DEBRIS THEN THE CONTRACTOR SHALL NOTIFY THE INSPECTOR

**YARDLINE INSTALLATION NOTES**

1. ALL YARDLINE MATERIAL AND INSTALLATION METHODS SHALL MEET ALL STATE AND LOCAL PLUMBING CODES.
2. ALL INSTALLATION WORK SHALL BE CONDUCTED BY A LICENSED PLUMBER.
3. ALL YARDLINES SHALL BE CONSTRUCTED OF 4-INCH DIAMETER SCH 40 PVC UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL YARDLINE TRENCHES SHALL BE COMPACTED TO 80-PERCENT STD. PROCTOR.
4. ALL YARDLINES SHALL BE CONSTRUCTED WITH A CLEANOUT AT EACH BEND AND AT EVERY 100-FEET. CLEANOUTS SHALL BE INSTALLED FLUSH WITH THE FINISH NATURAL GROUND.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONNECTING ALL SERVICE TAPS FROM THE HOME.
6. PRIOR TO THE BEGINNING OF WORK ON EACH SITE, THE CONTRACTOR SHALL COORDINATE WITH BPUB AND THE INSPECTOR TO VERIFY THE BEST LOCATION FOR THE PROPOSED YARDLINE. ONCE THE BEST ROUTE IS DETERMINED BY THE PARTIES, THE CONTRACTOR SHALL MARK THE LOCATION WITH FLUORESCENT PAINT.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF ANY WORK IN A PARTICULAR AREA.
8. SANITARY SEWER HOUSE SERVICE TAPS MAY REQUIRE AIR VENTS AND OTHER PLUMBING CODE REQUIREMENTS. THE COST ASSOCIATED WITH ADDING THESE ITEMS IS CONSIDERED SUBSIDIARY TO THE UNIT COST OF THE YARDLINE HOOK UP.
9. IN THE EVENT MULTIPLE STRUCTURES ARE LOCATED ON A SINGLE LOT, ALL STRUCTURES SHALL BE CONNECTED AND THE YARDLINE SHALL BE PAID AS A SINGLE YARDLINE BASED ON THE TOTAL LINEAR FOOTAGE.

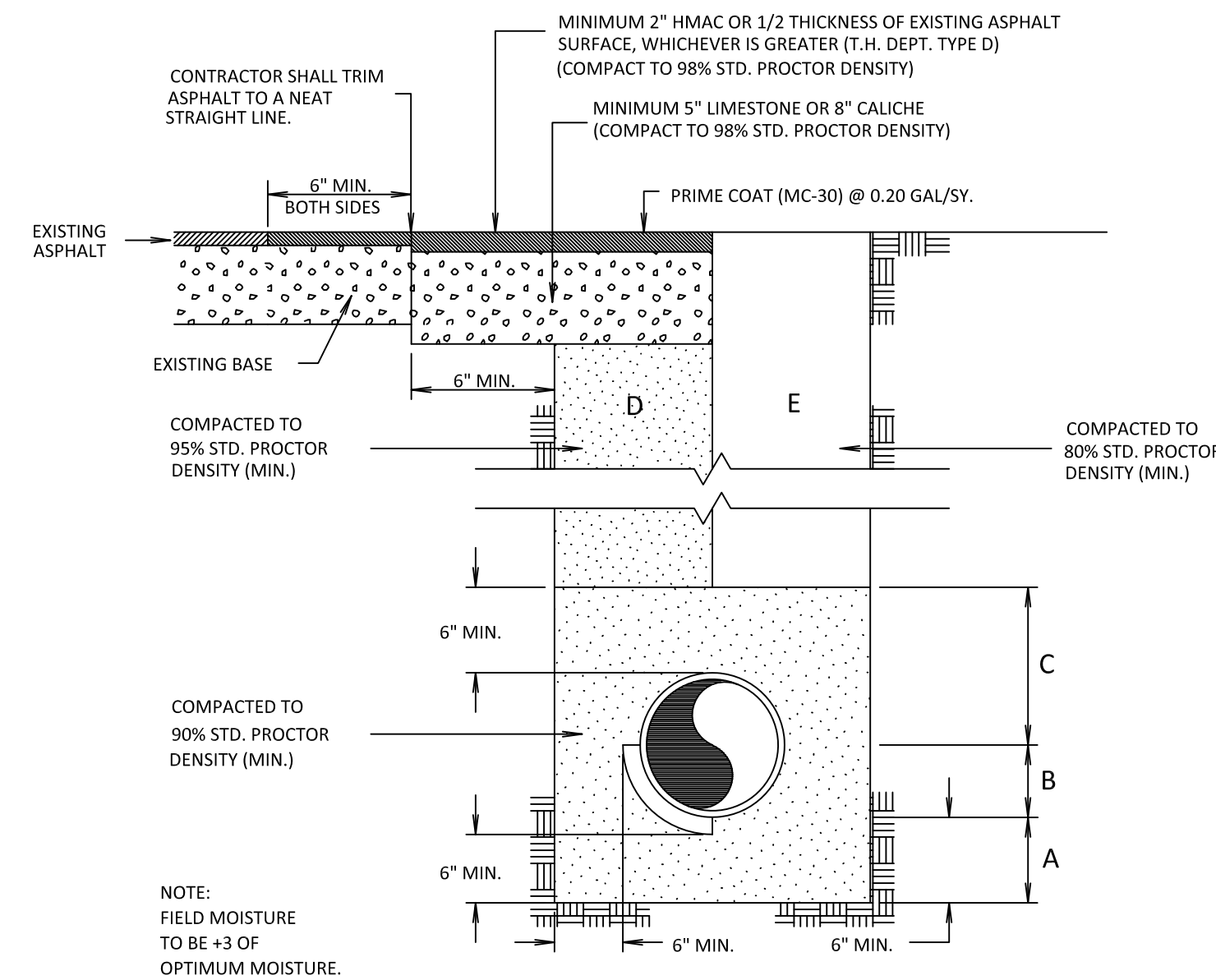
**SEPTIC SYSTEM DECOMMISSIONING/REMOVAL NOTES:**

1. ALL SEPTIC TANKS SHALL BE PUMPED CLEAN OF SEWAGE AND SLUDGE BY A TCEQ CERTIFIED HAULER. ALL SEWAGE SHALL BE DISPOSED OF ACCORDING TO TCEQ RULES.
2. REMOVAL AND DECOMMISSIONING OF THE SEPTIC TANK SYSTEM ARE CONSIDERED SEPARATE BID ITEMS.
3. DECOMMISSIONING OF SEPTIC TANK BID ITEM INCLUDES THE CRUSHING OF THE SEPTIC TANK IN-PLACE AND BACKFILLING WITH NATURAL SOIL CLEAN OF CONSTRUCTION DEBRIS. THE SEPTIC TANK SHALL BE CRUSHED TO A MINIMUM OF 3 FEET BELOW NATURAL GROUND. ALL BACKFILL SHALL BE COMPACTED TO 80-PERCENT STD. PROCTOR.
4. REMOVAL OF SEPTIC TANK BID ITEM INCLUDES THE COMPLETE REMOVAL OF TANKS AND PIPING ASSOCIATED WITH THE SEPTIC SYSTEM. THIS DOES NOT INCLUDE THE REMOVAL OF ABSORPTION FIELD DRAIN LINES. ABSORPTION FIELD DRAIN LINES SHALL BE CAPPED AND ABANDONED IN-PLACE.
5. FOR BOTH DECOMMISSIONING AND REMOVAL OF THE SEPTIC TANKS SYSTEM, THE CONTRACTOR SHALL NOTE THAT A SEPTIC TANK SYSTEM MAY INCLUDE MORE THAN ONE TANK. THE UNIT PRICE INCLUDES THE DECOMMISSIONING OR REMOVAL OF ALL SEPTIC TANKS IN THE SEPTIC TANK SYSTEM.
6. INSPECTOR SHALL INSPECT THE SEPTIC TANK PRIOR TO THE CONTRACTOR CRUSHING OR REMOVING THE STRUCTURE.



**TYPICAL SINGLE CLEAN-OUT**

NOTE: 12" MIN. CONC. WITH 3 #3 BARS  
3" O.C. CONTINUOUS IF IN PARKING LOT OR OTHER VEHICULAR TRAFFIC AREA



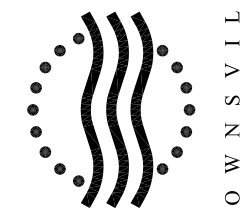
**6" SERVICE LINE BEDDING DETAIL**

NOT TO SCALE

- A SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6").
- B SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE (4" LIFTS, HAND TAMPED).
- C SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE (6" LIFTS, HAND TAMPED).
- D SAND BACKFILL, CLASS "A" (6" LIFTS, MECHANICAL COMPACTION).
- E EARTH BACKFILL, CLASS "B" (12" LIFTS, MECHANICAL COMPACTION).

FOUNDATION PREPERATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS STABLE.

BACKFILL AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED.



BROWN SVILLE  
PUBLIC UTILITIES BOARD

Public Utilities Board  
1425 Robinhood Drive  
Brownsville, Texas 78521  
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Water and Wastewater  
Engineering Department  
(956) 983-6230  
FAX: (956) 983-6220



CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS

**GENERAL NOTES**

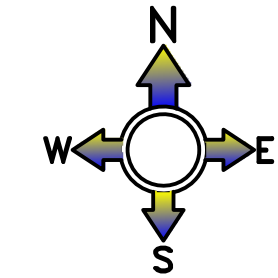
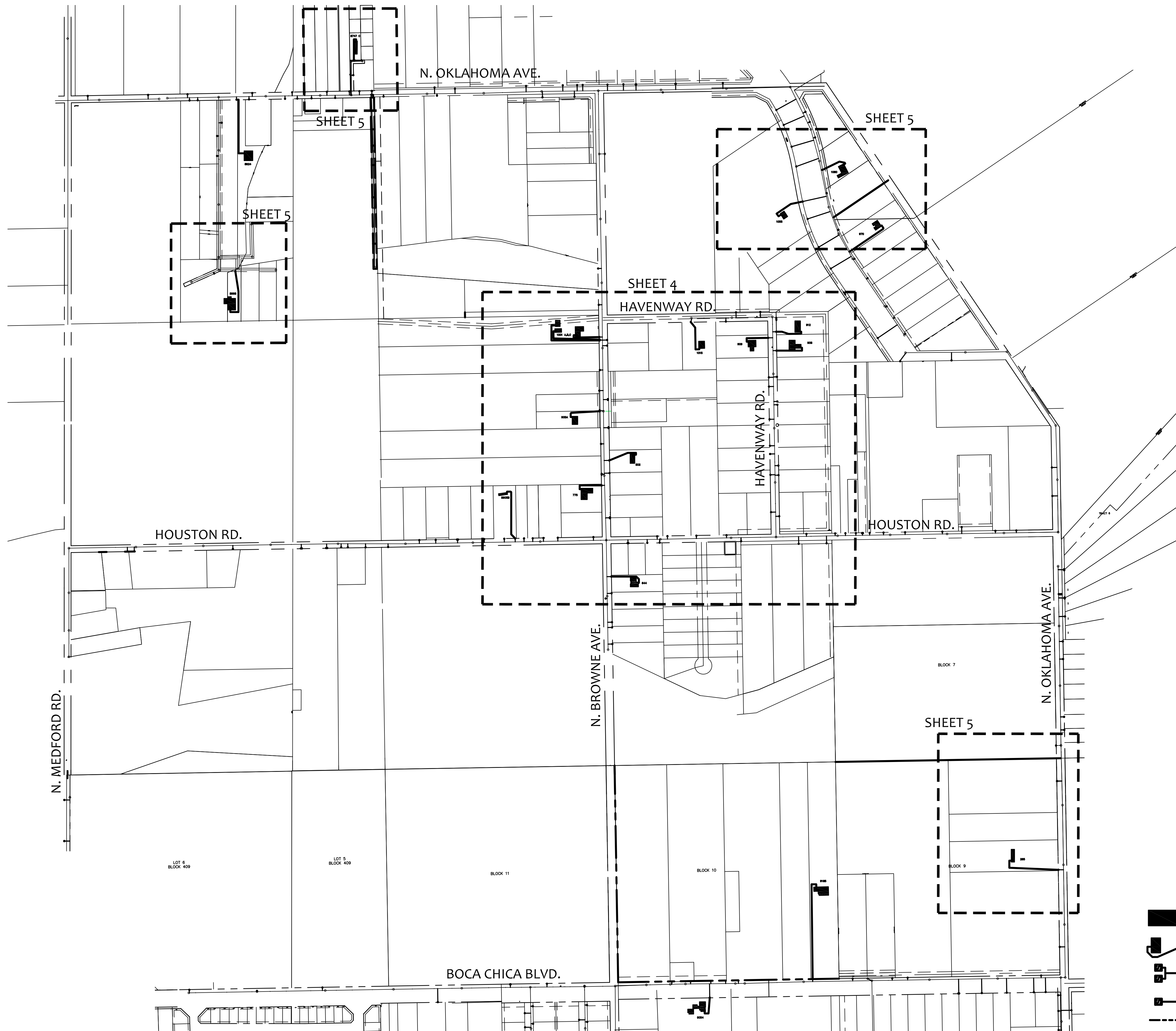
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Scale: AS SHOWN Date: MAY 2019  
Designed by: ALFREDO J. RESENDEZ  
Drawn by: A. HERNANDEZ  
Checked by: ALFREDO J. RESENDEZ  
Approved by: ALFREDO J. RESENDEZ  
Project #: .....

SHEET

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OF 13

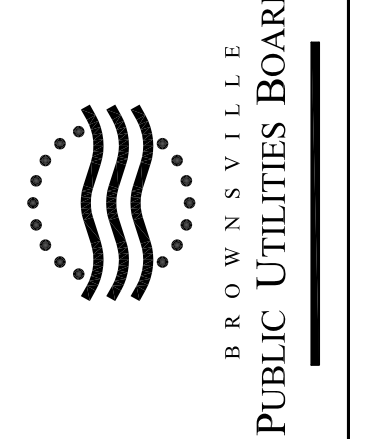


**PROJECT OVERVIEW AREA 1**  
SCALE: 1" = 300'

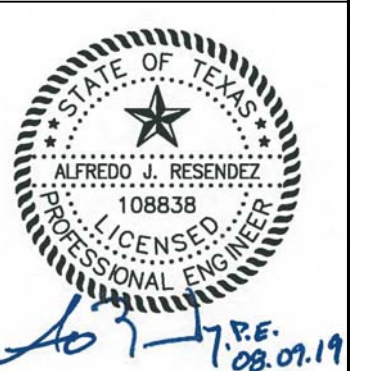
**LEGEND**

- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

NOTE:  
SERVICE LINES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LOCATION AND LENGTH WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.

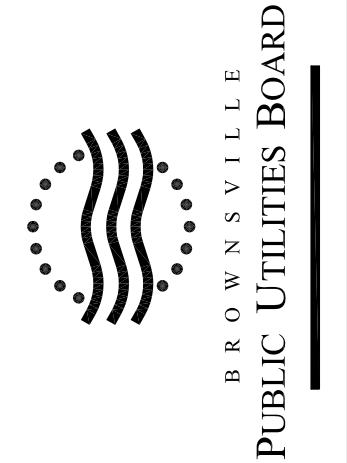
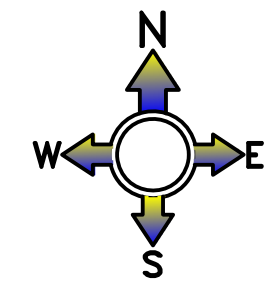
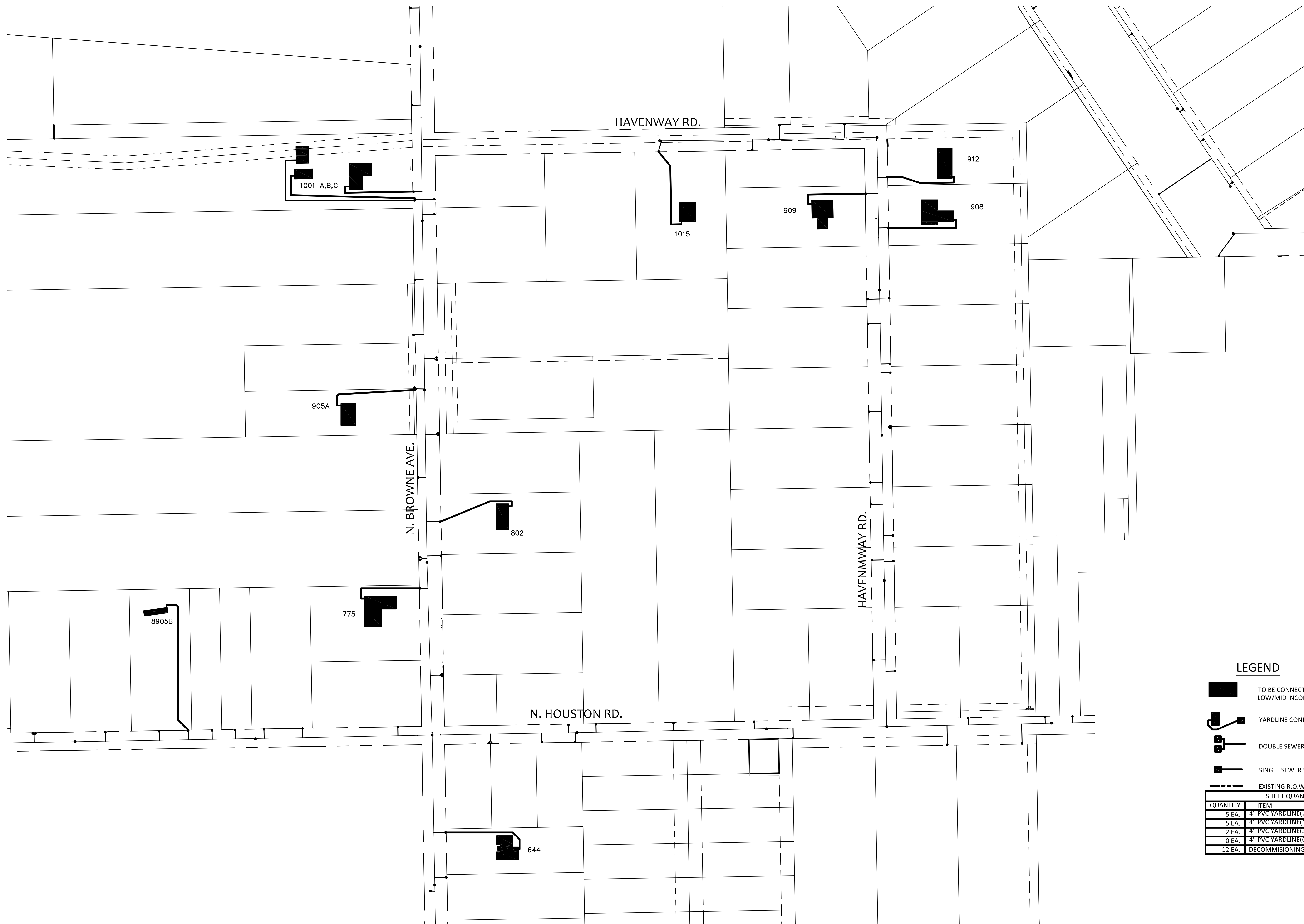


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CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS  
**PROJECT OVERVIEW AREA 1**

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CAMERON COUNTY CEDAP PHASE 2  
 FM 511-802 HOME YARDLAINE CONNECTIONS  
 HOUSTON ROAD  
 N. BROWNE AVENUE  
 HAVENWAY ROAD

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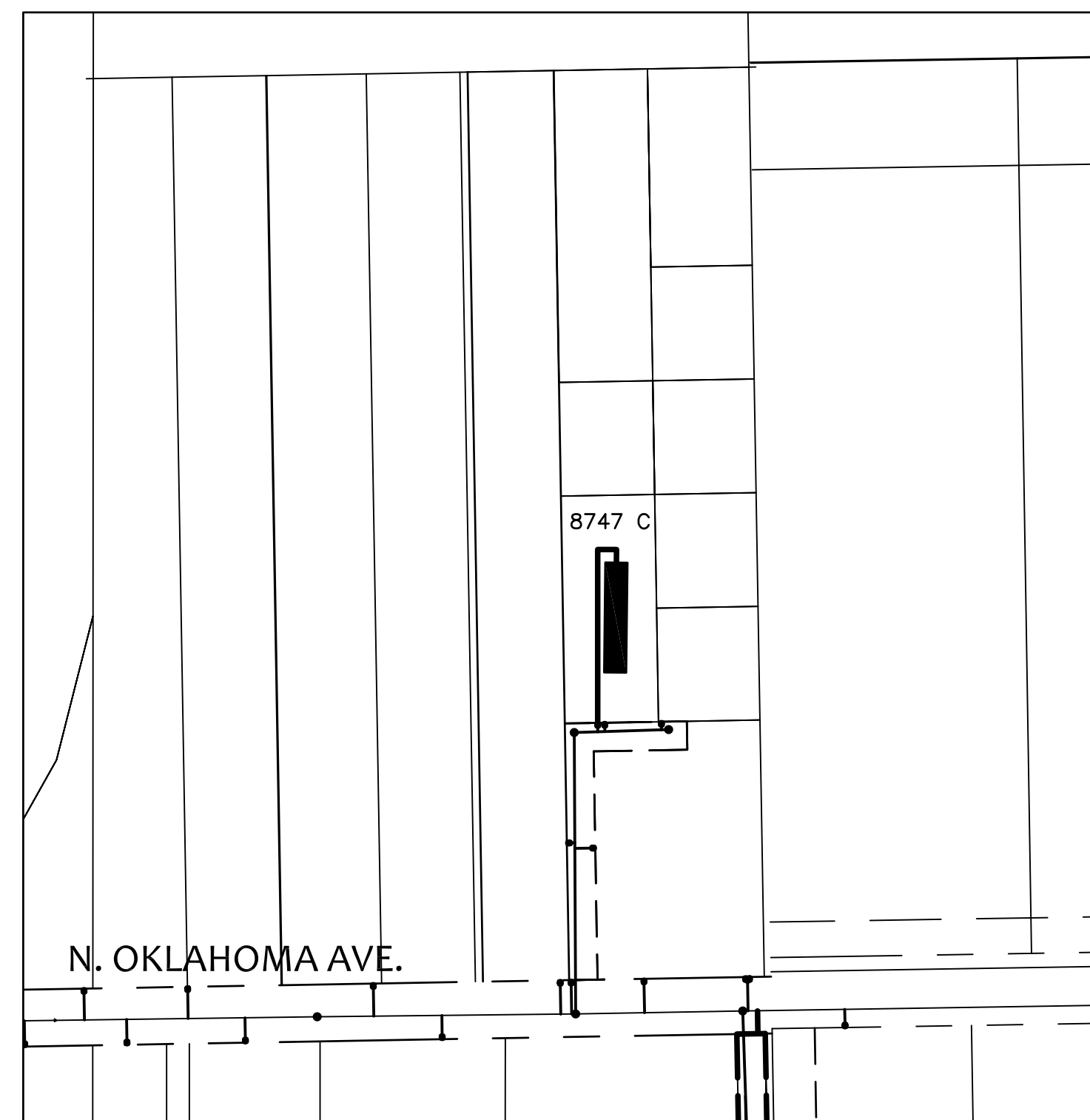
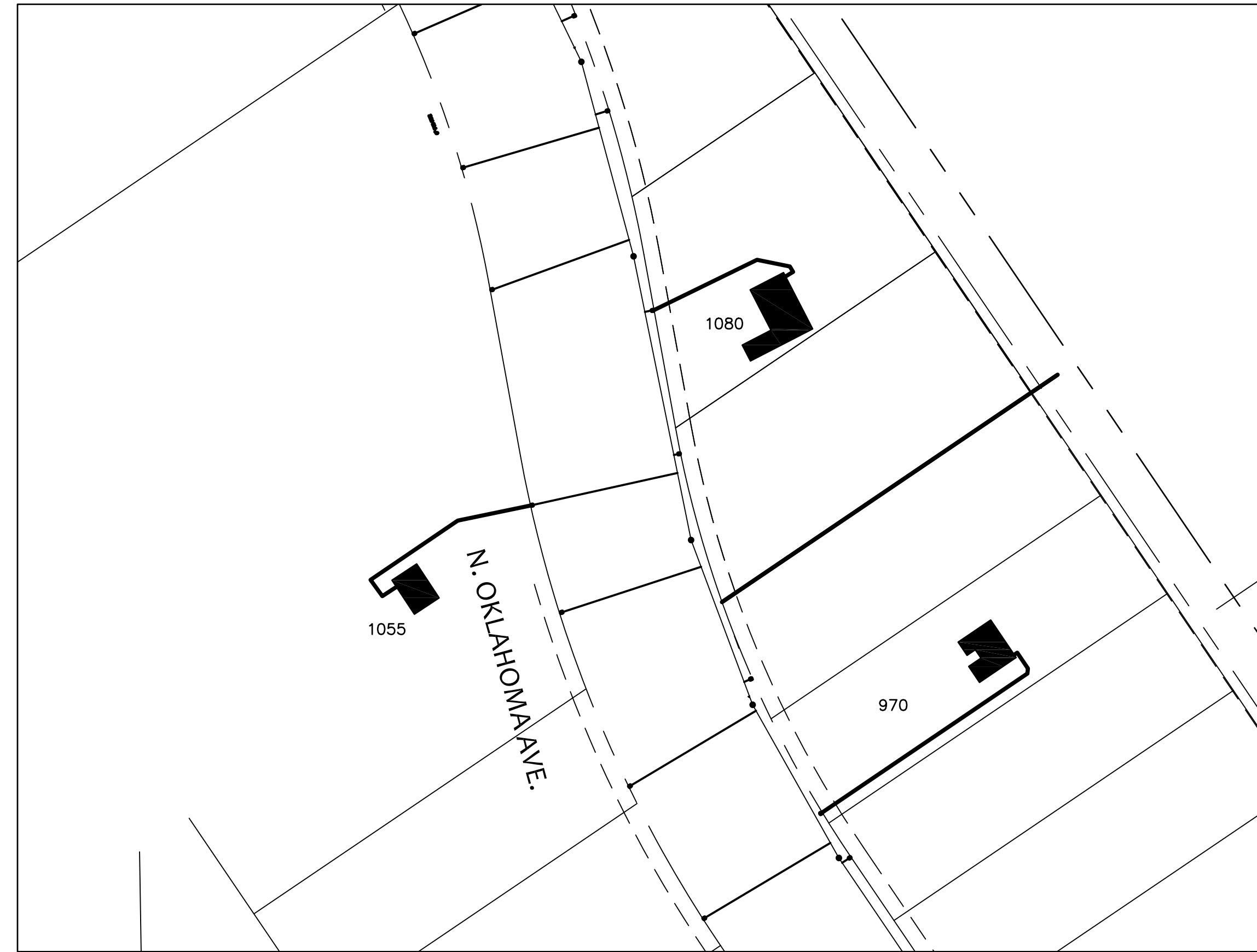
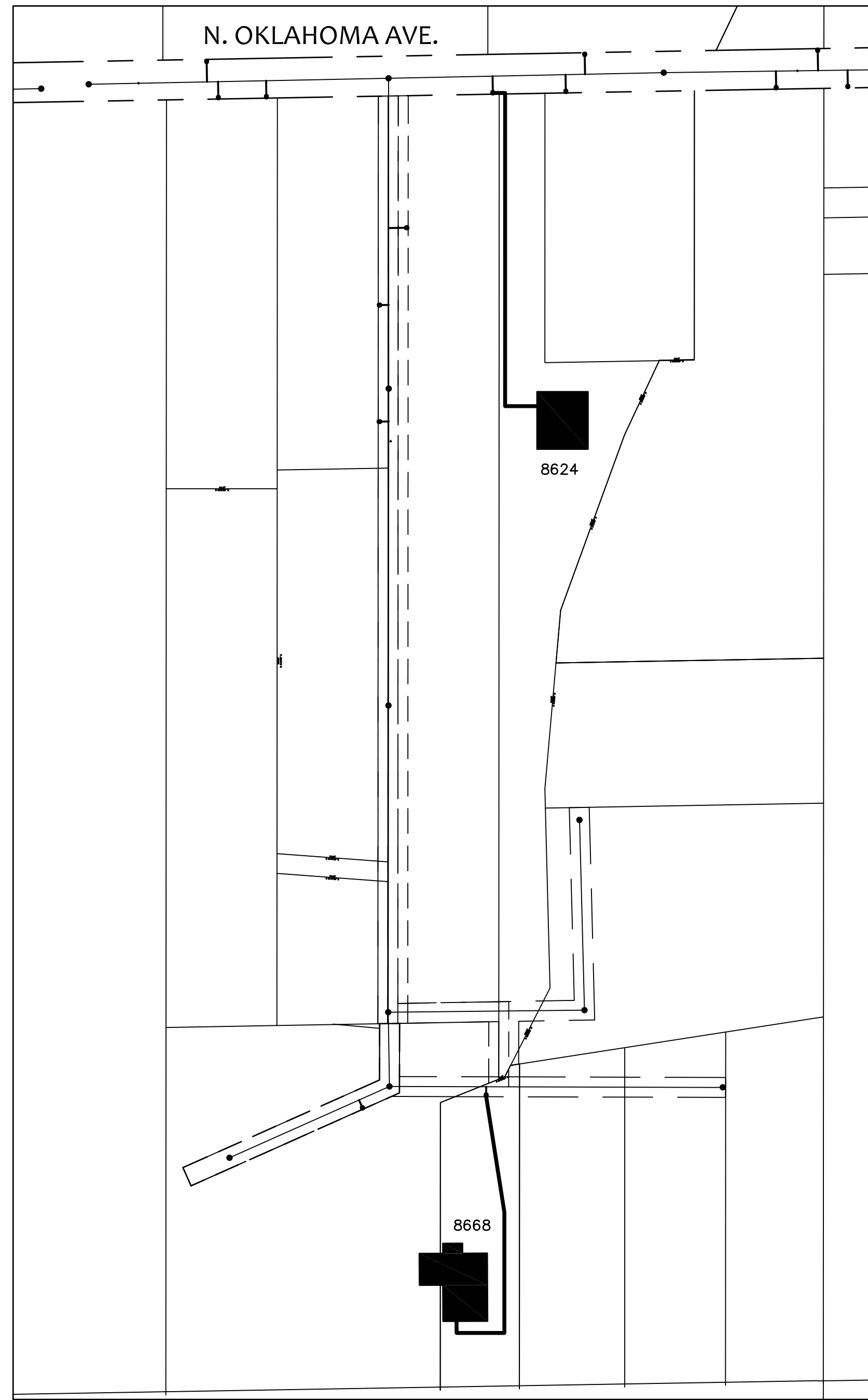
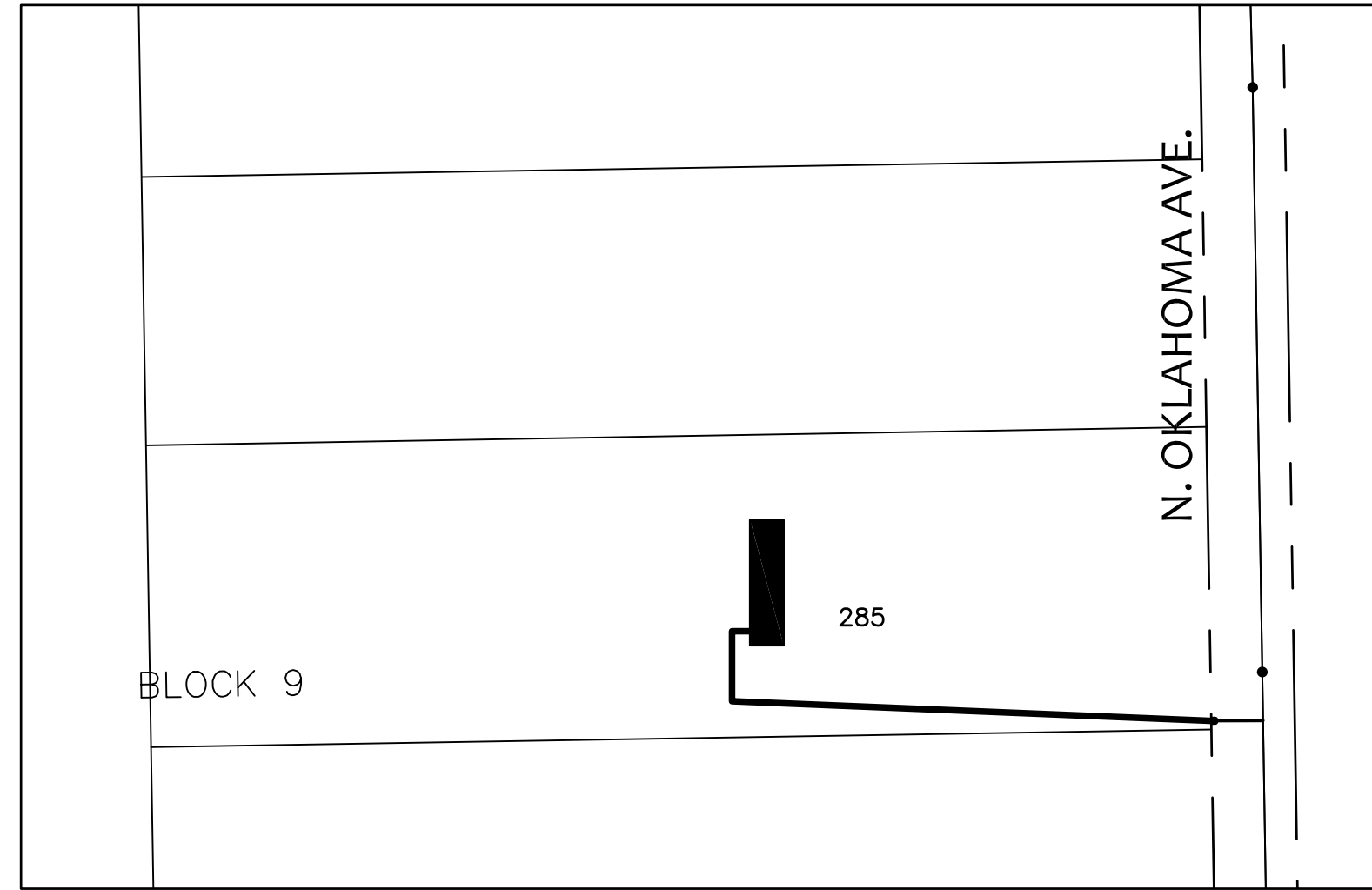
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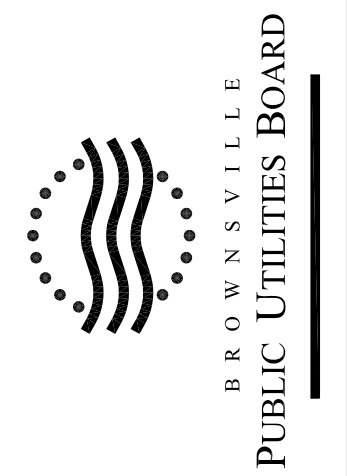
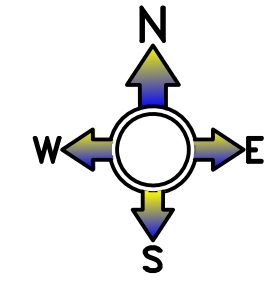
SHEET QUANTITIES	
QUANTITY	ITEM
5 EA.	4" PVC YARDLINE(UNDER 150 FT.)
5 EA.	4" PVC YARDLINE(151 FT. -300 FT.)
2 EA.	4" PVC YARDLINE(301 FT. -500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
12 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

NOTE:  
 SERVICE LINES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LOCATION AND LENGTH WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.

HOUSTON RD., N. BROWNE AVE. & HAVENWAY RD.  
 SCALE: 1" = 100'



N. OKLAHOMA AVE.  
SCALE: 1" = 100'



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N. OKLAHOMA AVENUE

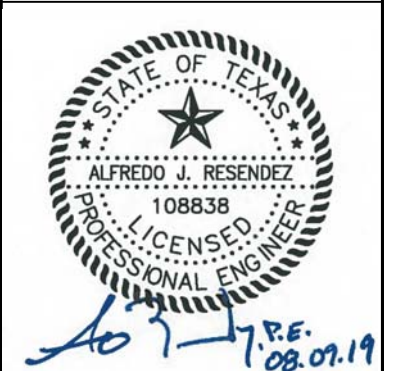
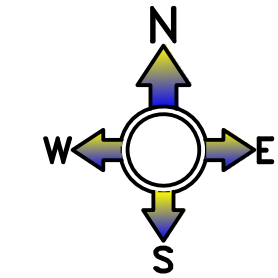
- LEGEND**
- TO BE CONNECTED LOW/MID INCOME
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  - DOUBLE SEWER SERVICES
  - SINGLE SEWER SERVICE
  - EXISTING R.O.W.

SHEET QUANTITIES	
QUANTITY	ITEM
2 EA.	4" PVC YARDLINE(UNDER 150 FT.)
3 EA.	4" PVC YARDLINE(151 FT. -300 FT.)
2 EA.	4" PVC YARDLINE(301 FT. -500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
7 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

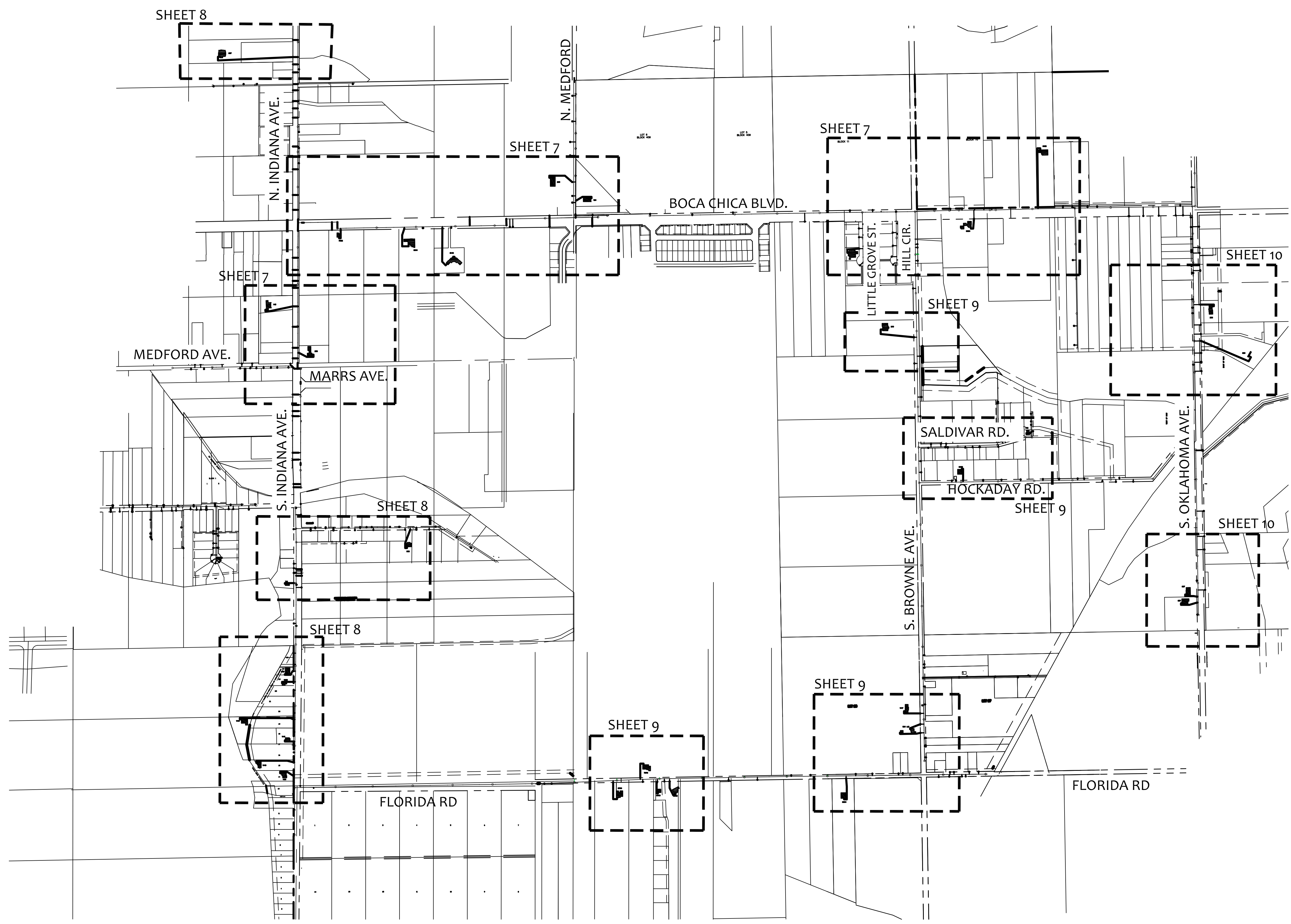
NOTE:  
SERVICE LINES SHOWN ARE FOR ILLUSTRATION  
PURPOSES ONLY. ACTUAL LOCATION AND LENGTH  
WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.

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Scale: AS SHOWN Date: MAY 2019  
Designed by: ALFREDO J. RESENDEZ  
Drawn by: A. HERNANDEZ  
Checked by: ALFREDO J. RESENDEZ  
Approved by: ALFREDO J. RESENDEZ  
Project #: .....



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2			
1			

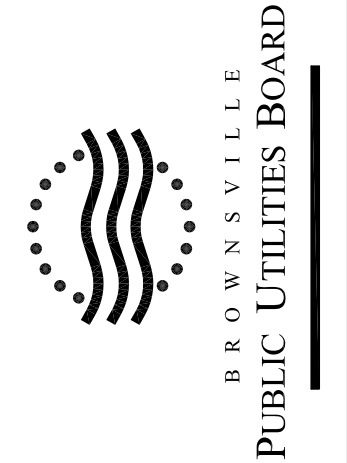
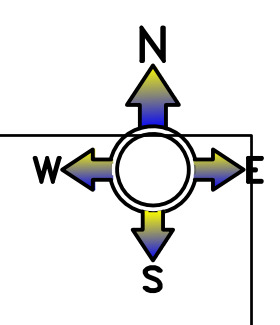
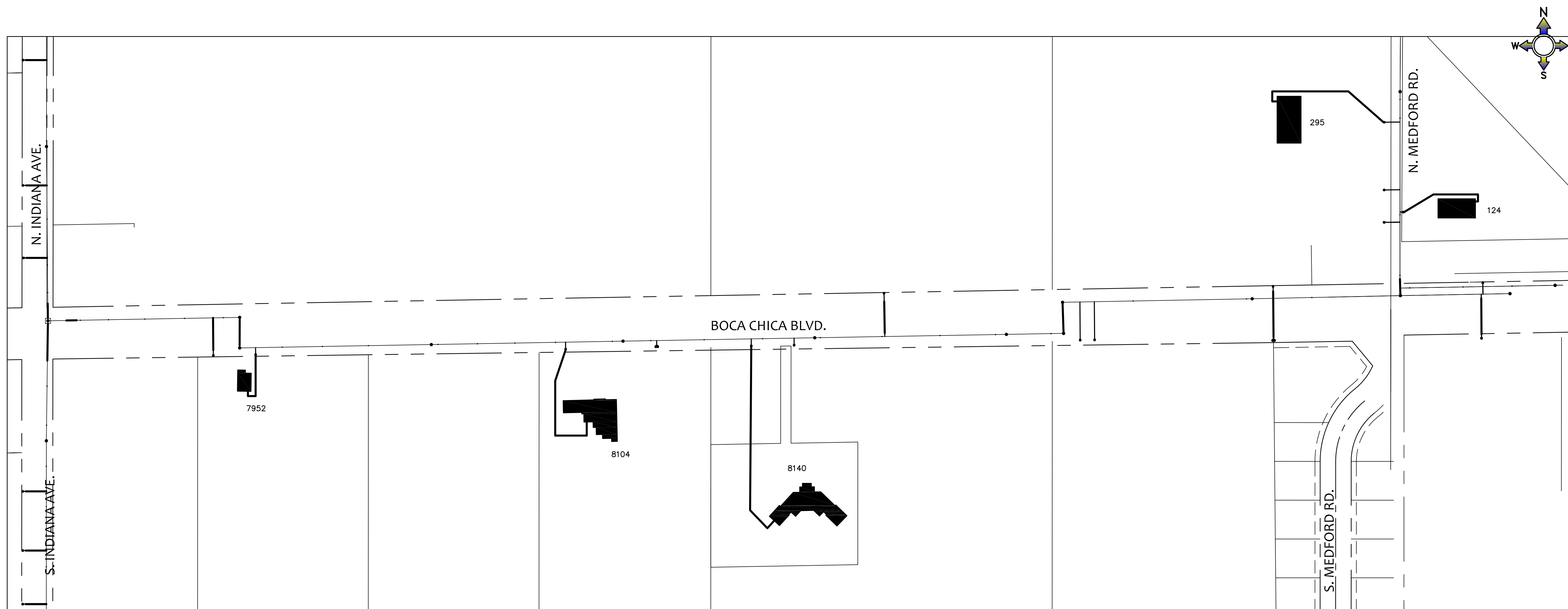


**PROJECT OVERVIEW AREA 2**  
SCALE: 1" = 500'

**LEGEND**

- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

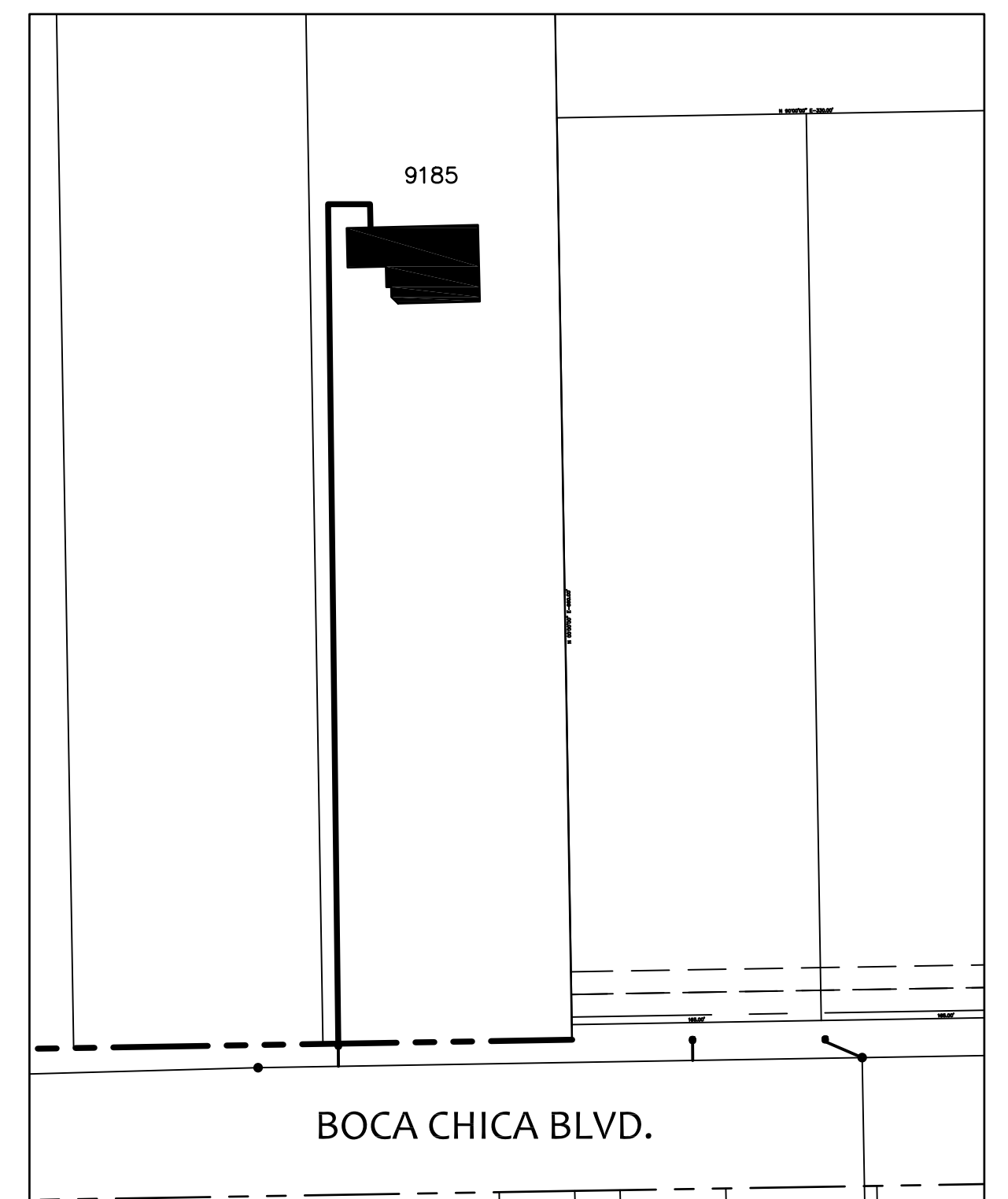
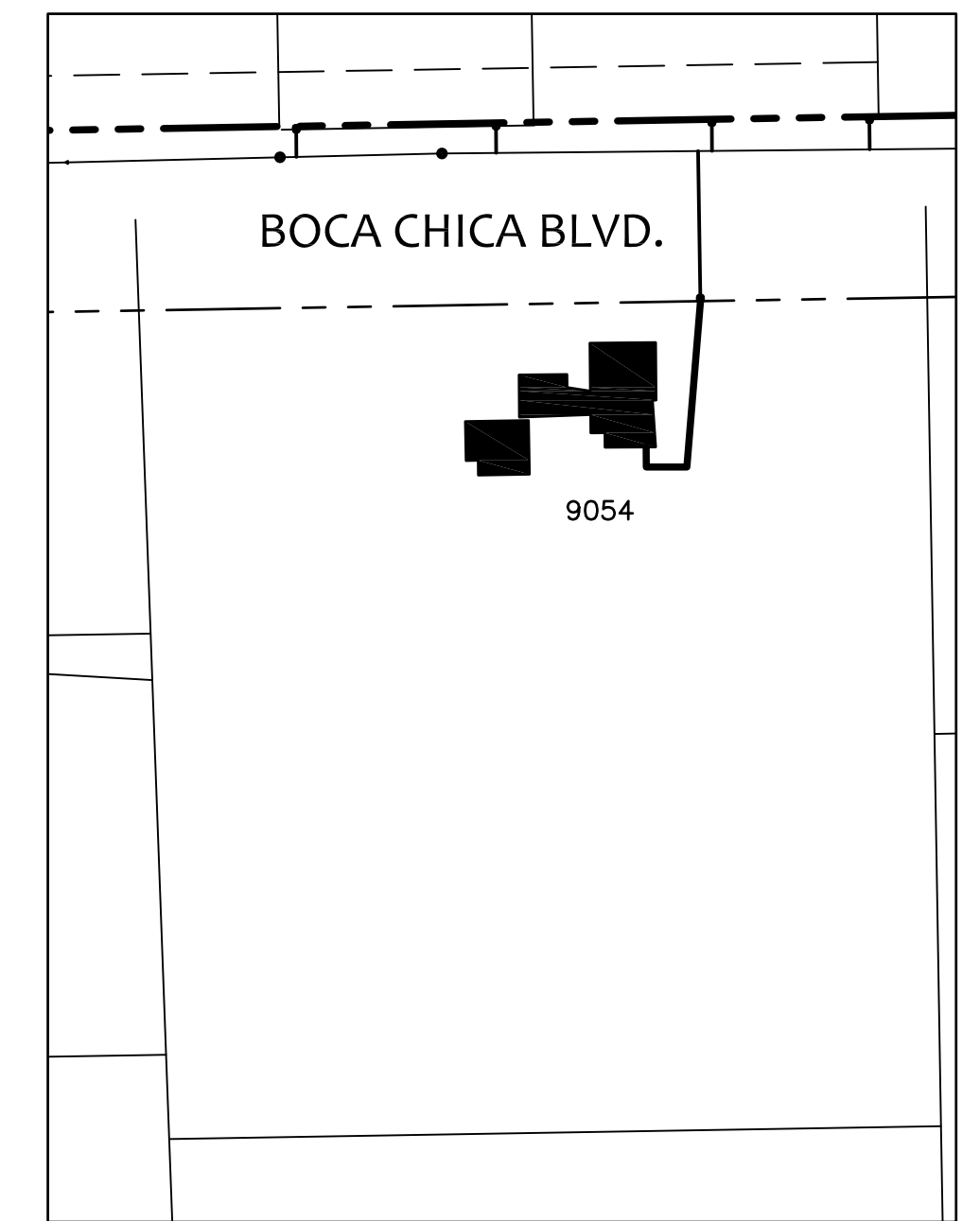
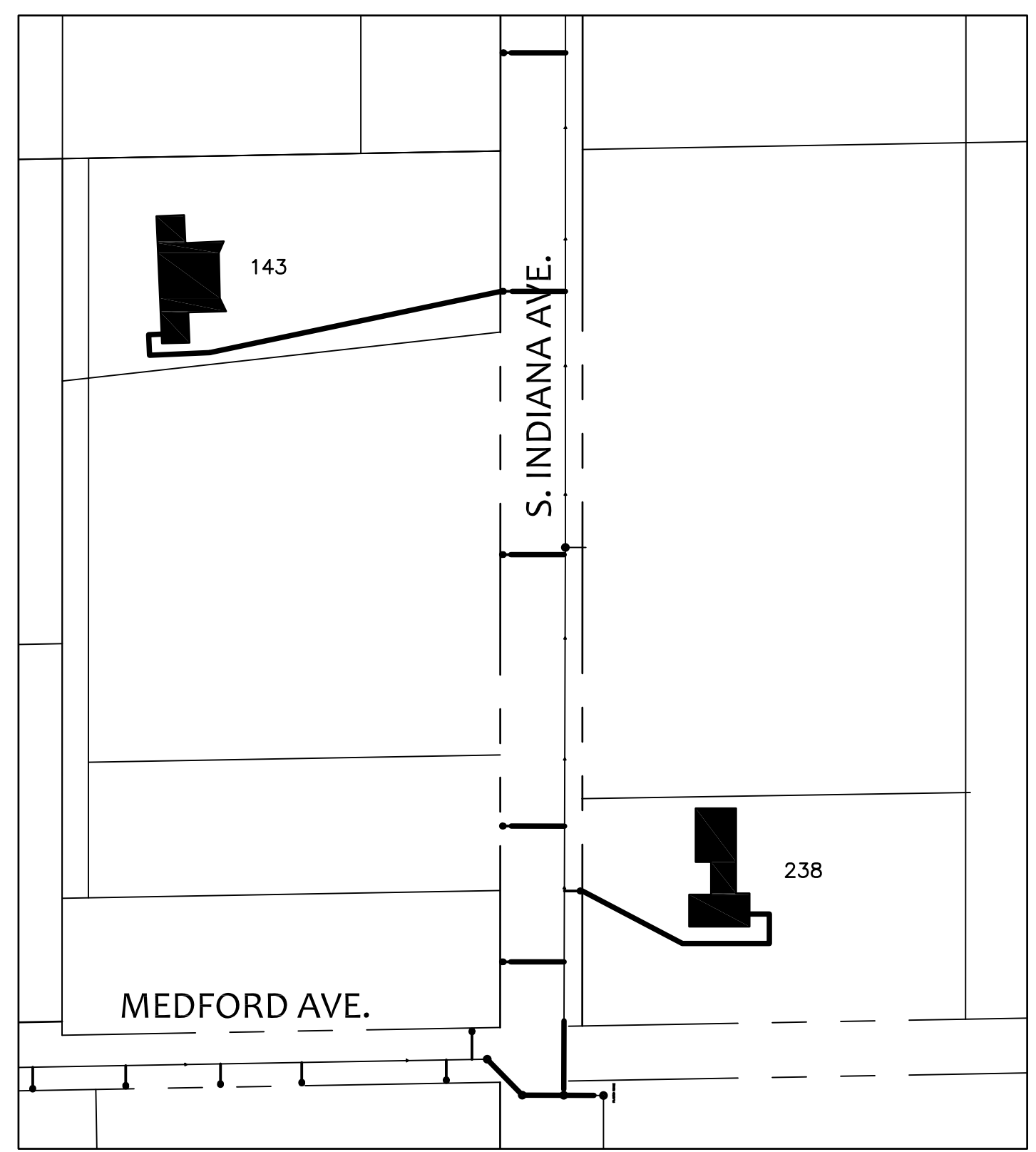
NOTE:  
SERVICE LINES SHOWN ARE FOR ILLUSTRATION  
PURPOSES ONLY. ACTUAL LOCATION AND LENGTH  
WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.



Public Utilities Board  
 1425 Robinhood Drive  
 Brownsville, Texas 78521  
 1-800-869-2922  
 Water and Wastewater  
 Engineering Department  
 (956) 983-6230  
 FAX: (956) 983-6220



CAMERON COUNTY CEDAP PHASE 2  
 FM 511-802 HOME YARDLINE CONNECTIONS  
 S. INDIANA AVE. BOCA CHICA BLVD.  
 N. MEDFORD ROAD  
 LITTLE GROVE ST.



S. INDIANA AVE., BOCA CHICA, N. MEDFORD RD. & LITTLE GROVE ST.  
 SCALE: 1" = 100'

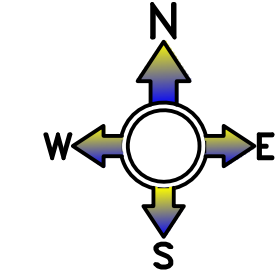
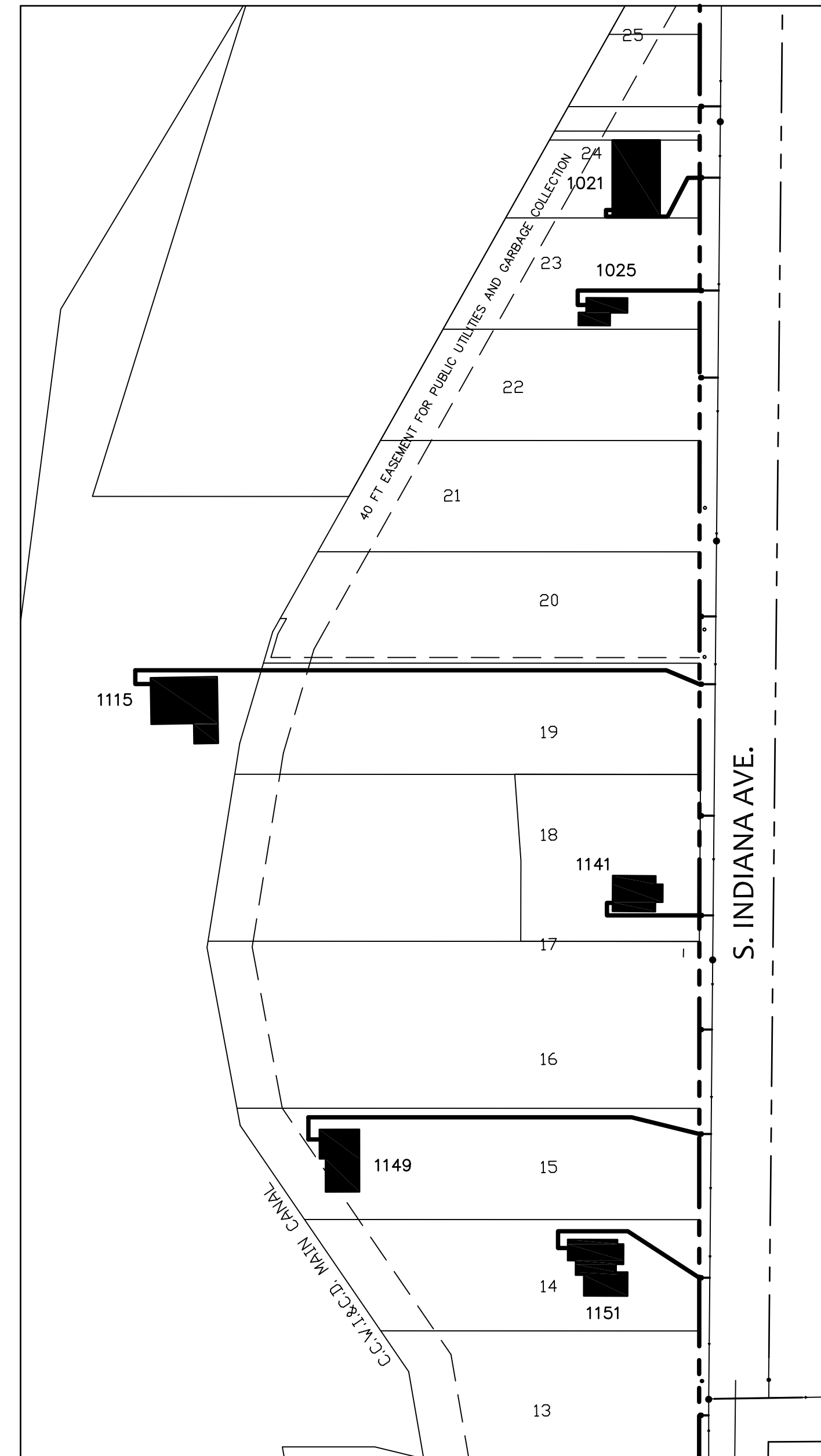
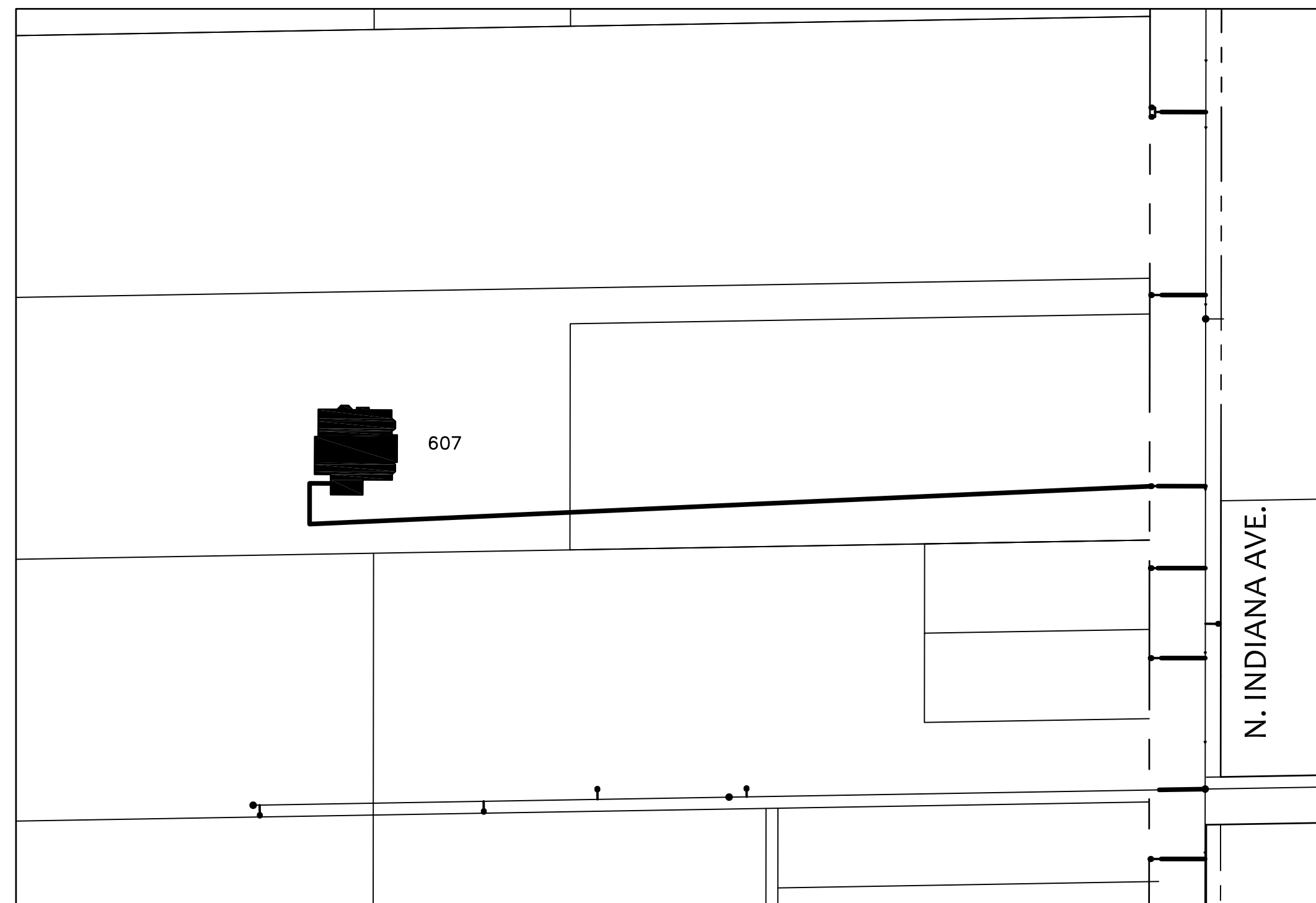
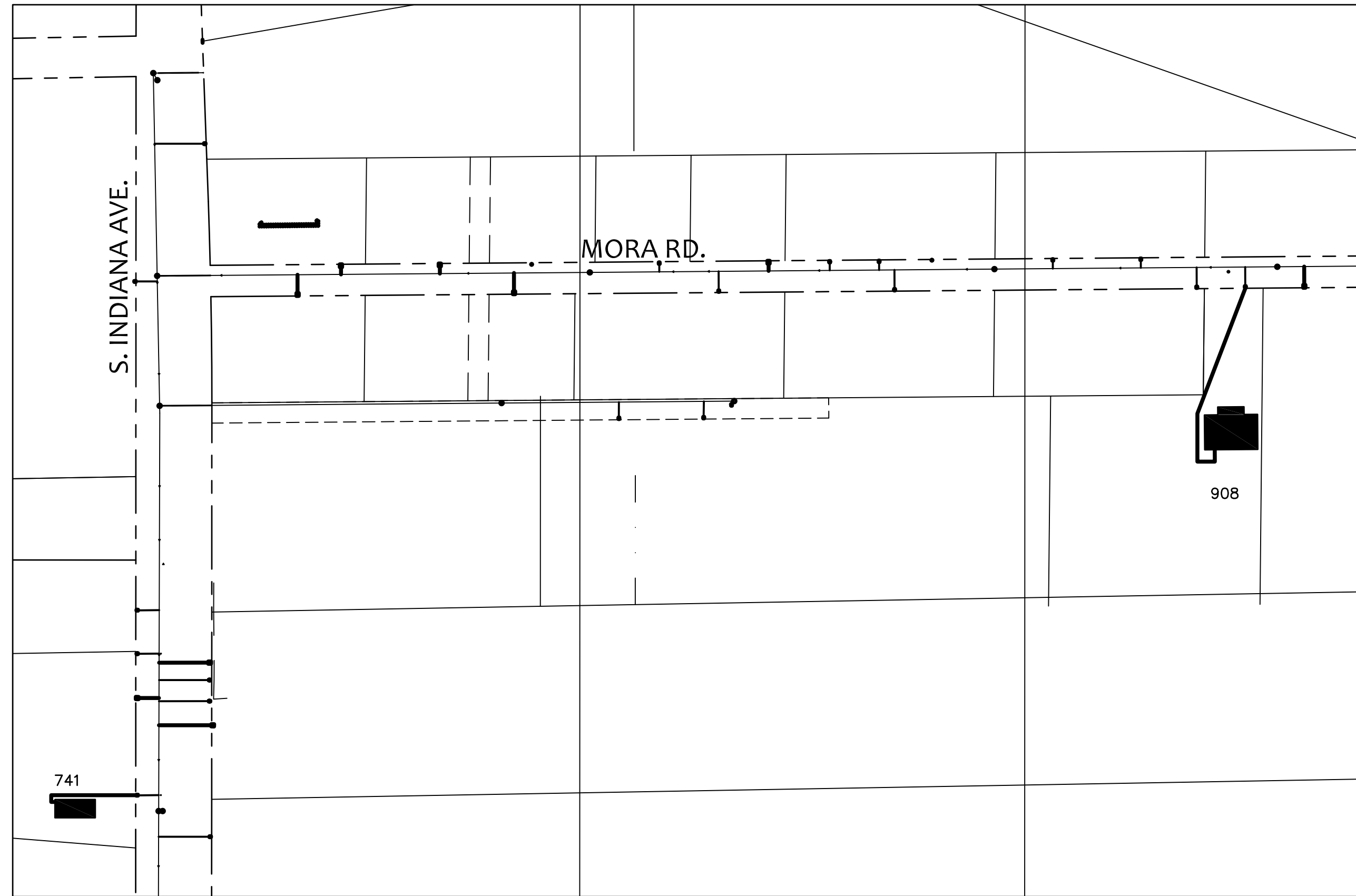
- LEGEND**
- TO BE CONNECTED LOW/MID INCOME
  - YARDLINE CONNECTION
  - DOUBLE SEWER SERVICES
  - SINGLE SEWER SERVICE
  - EXISTING R.O.W.

SHEET QUANTITIES	
QUANTITY	ITEM
3 EA.	4" PVC YARDLINE(UNDER 150 FT.)
5 EA.	4" PVC YARDLINE(151 FT.-300 FT.)
2 EA.	4" PVC YARDLINE(301 FT.-500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
10 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			

Scale: AS SHOWN Date: MAY 2019  
 Designed by: ALFREDO J. RESENDEZ  
 Drawn by: A. HERNANDEZ  
 Checked by: ALFREDO J. RESENDEZ  
 Approved by: ALFREDO J. RESENDEZ  
 Project #: .....

NOTE:  
 SERVICE LINES SHOWN ARE FOR ILLUSTRATION  
 PURPOSES ONLY. ACTUAL LOCATION AND LENGTH  
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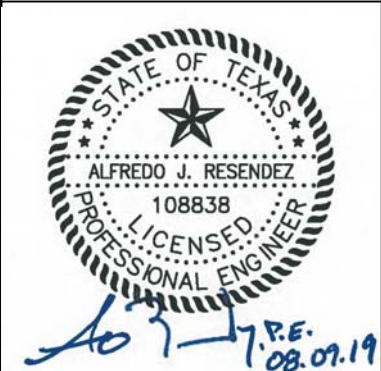
N. INDIANA AVE, S. INDIANA AVE. & MORA ST.  
SCALE: 1" = 100'

SHEET QUANTITIES	
QUANTITY	ITEM
4 EA.	4" PVC YARDLINE(UNDER 150 FT.)
2 EA.	4" PVC YARDLINE(151 FT.-300 FT.)
2 EA.	4" PVC YARDLINE(301 FT.-500 FT.)
1 EA.	4" PVC YARDLINE(OVER 501 FT.)
9 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

- LEGEND**
- TO BE CONNECTED LOW/MID INCOME
  - YARDLINE CONNECTION
  - DOUBLE SEWER SERVICES
  - SINGLE SEWER SERVICE
  - EXISTING R.O.W.

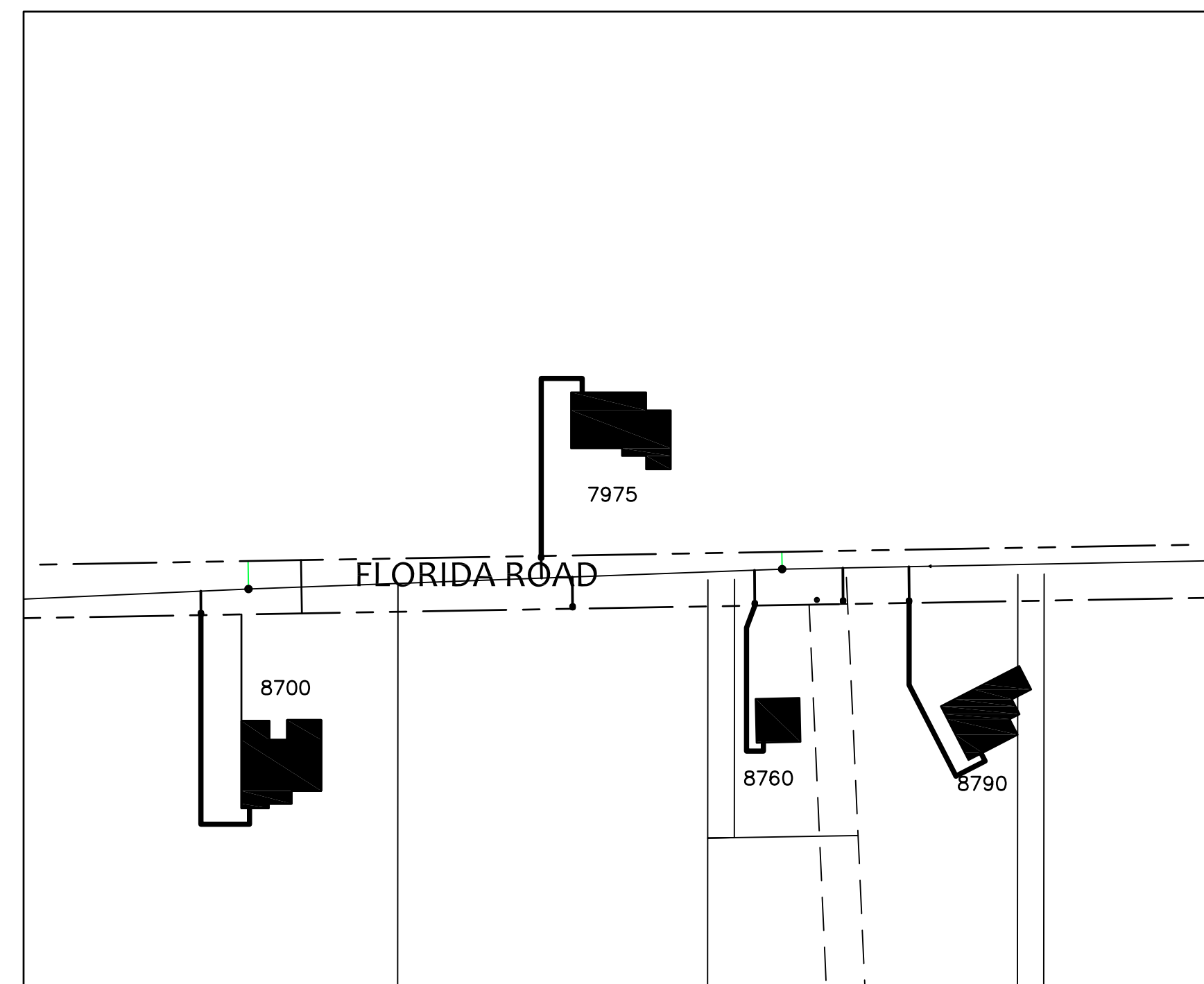
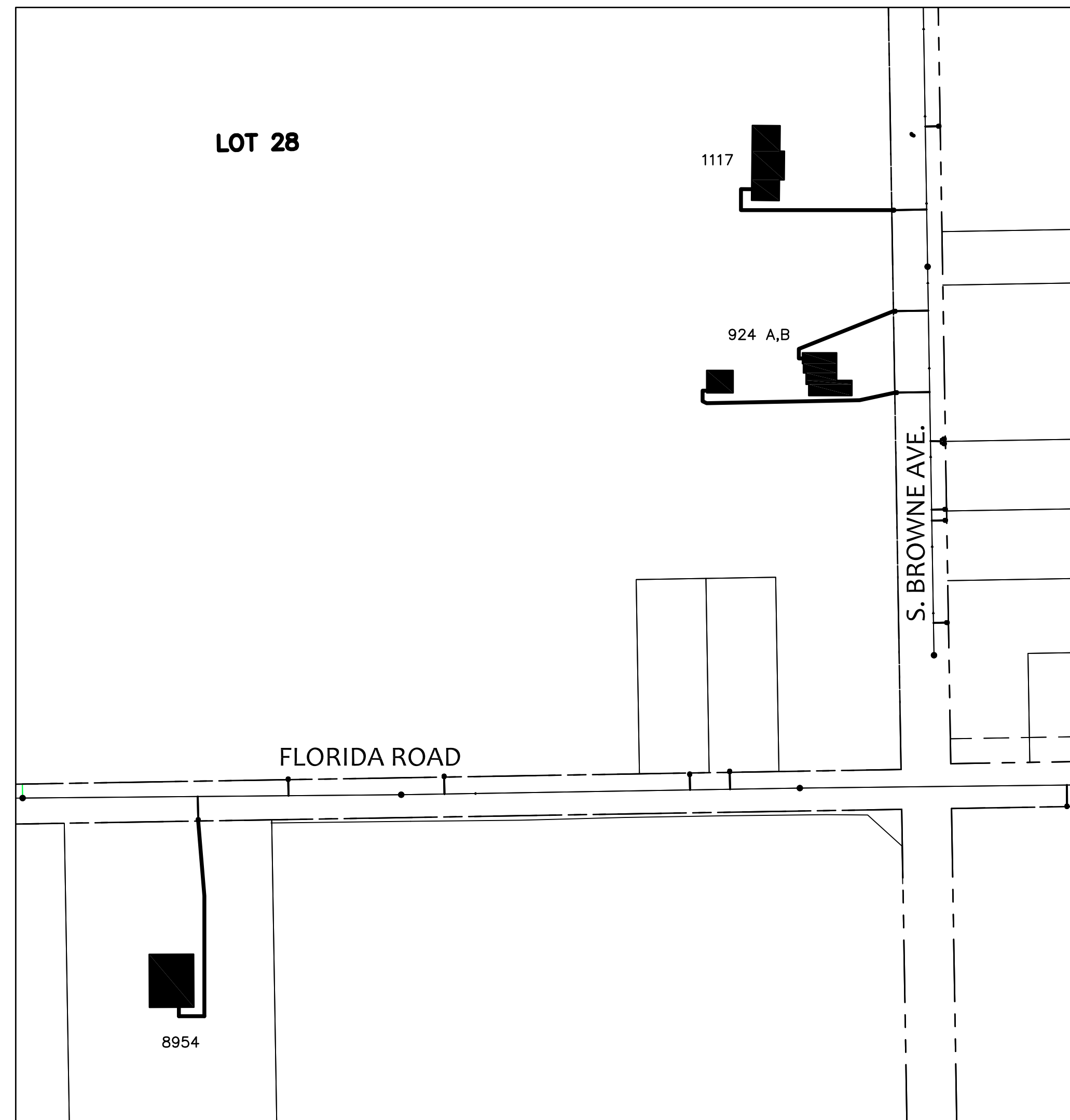
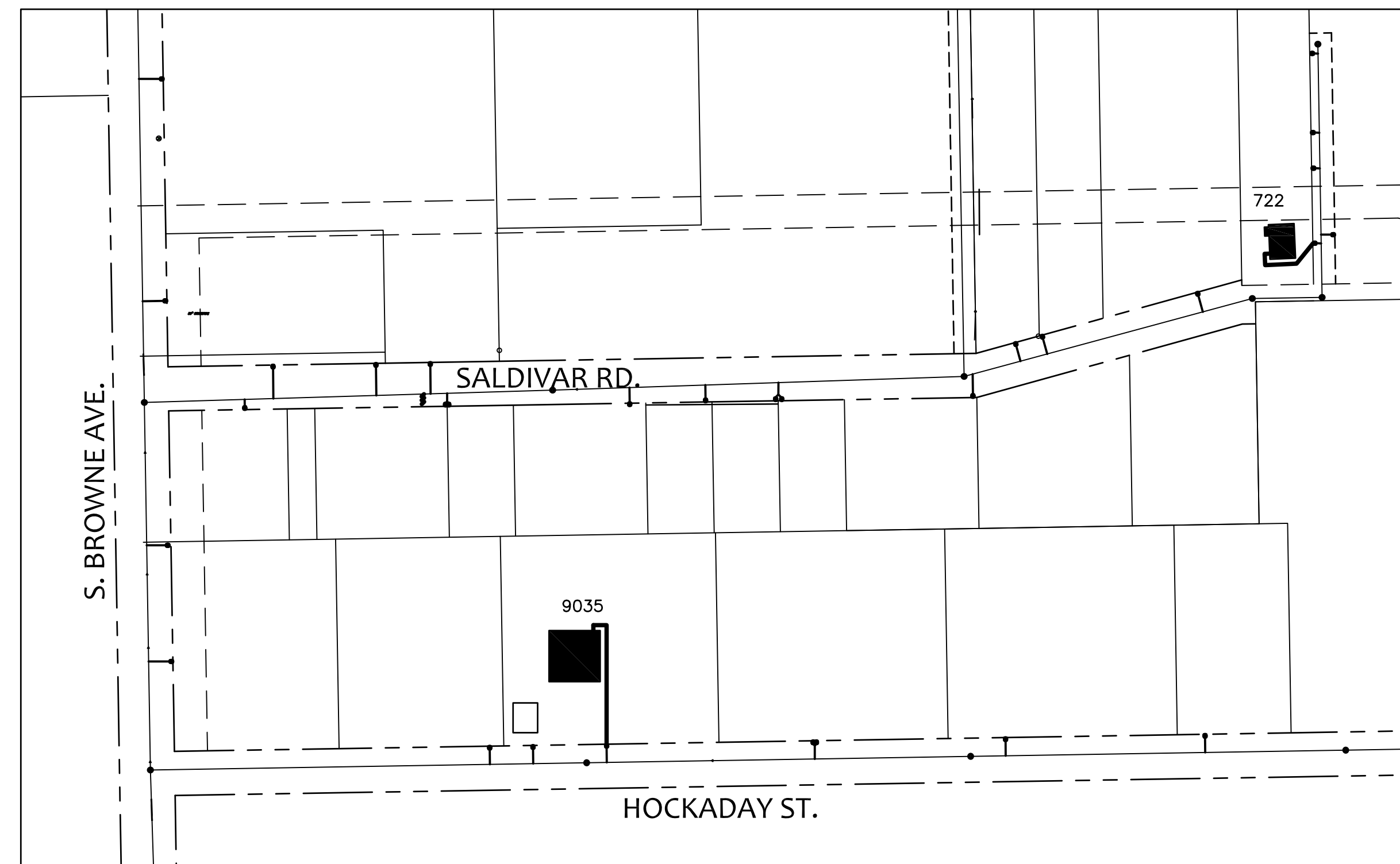
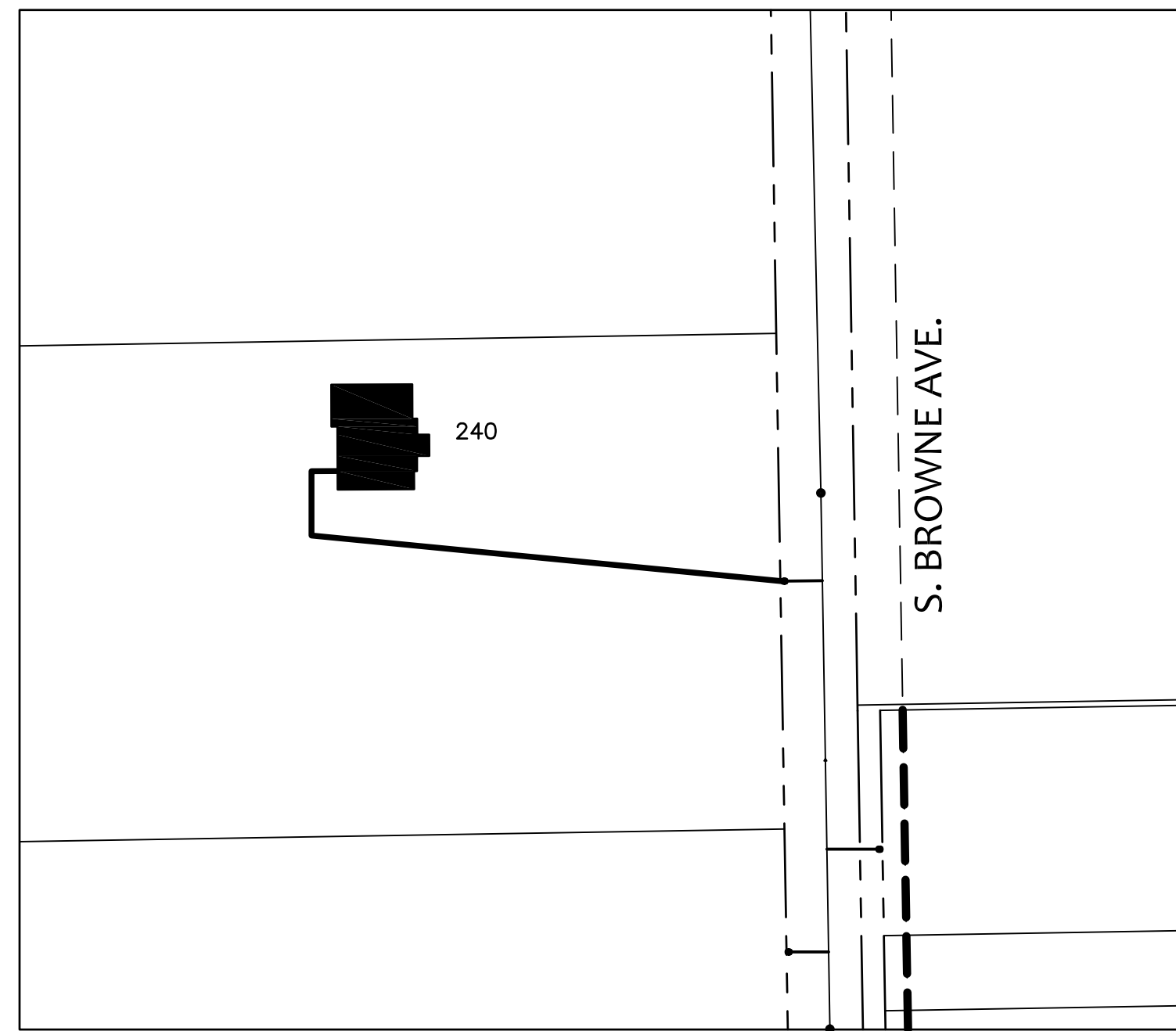
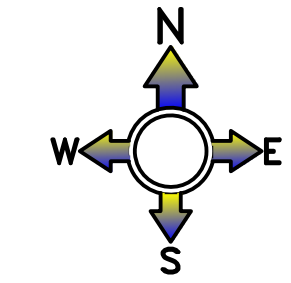
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SERVICE LINES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LOCATION AND LENGTH WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.

Public Utilities Board  
1425 Robinhood Drive  
Brownsville, Texas 78521  
1-800-869-2922  
Water and Wastewater  
Engineering Department  
(956) 983-6230  
FAX: (956) 983-6220



CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS  
N. INDIANA AVENUE  
S. INDIANA AVENUE  
MORA STREET

NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			



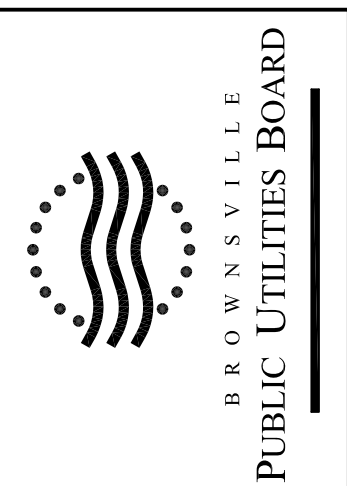
S. BROWNE AVE., FLORIDA RD., SALDIVAR RD. AND HOCKADAY ST.

SCALE: 1" = 100'

- LEGEND**
- TO BE CONNECTED LOW/MID INCOME
  - YARDLINE CONNECTION
  - DOUBLE SEWER SERVICES
  - SINGLE SEWER SERVICE
  - EXISTING R.O.W.

SHEET QUANTITIES	
QUANTITY	ITEM
4 EA.	4" PVC YARDLINE(UNDER 150 FT.)
6 EA.	4" PVC YARDLINE(151 FT. - 300 FT.)
1 EA.	4" PVC YARDLINE(301 FT. - 500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
11 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

NOTE:  
SERVICE LINES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LOCATION AND LENGTH WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.



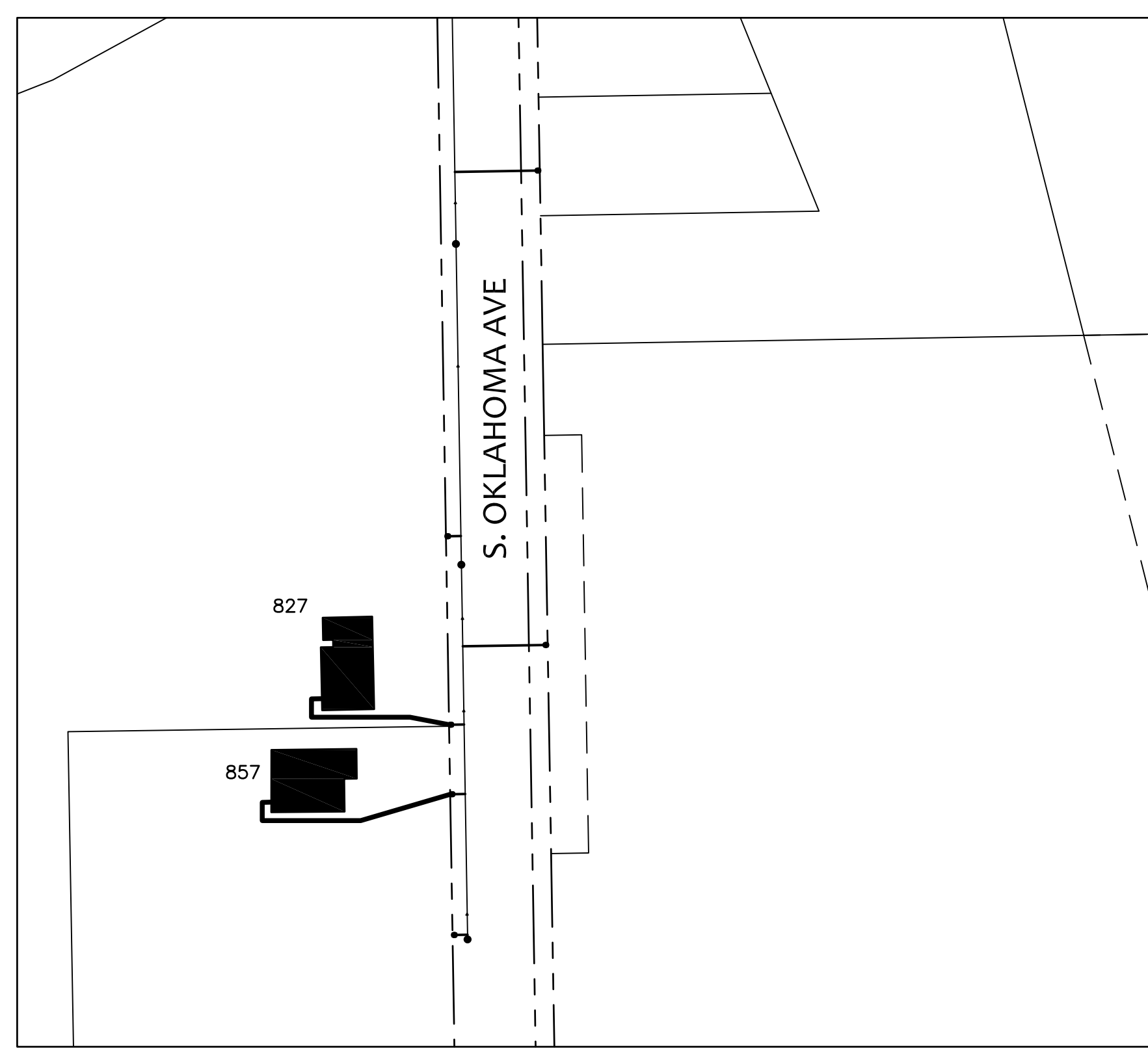
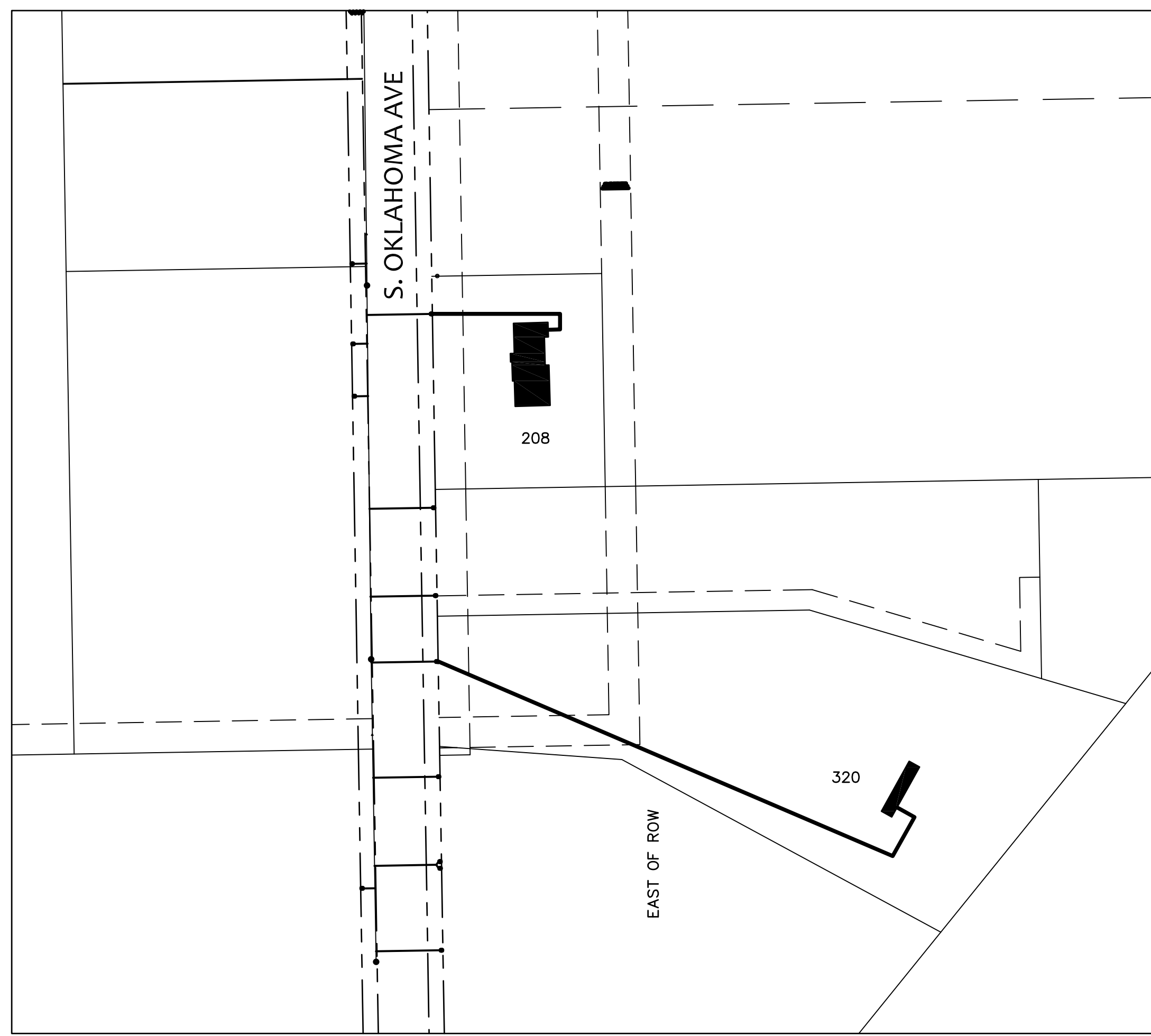
Public Utilities Board  
1425 Robinhood Drive  
Brownsville, Texas 78521  
1-800-869-2922  
Water and Wastewater  
Engineering Department  
(956) 983-6230  
FAX: (956) 983-6220



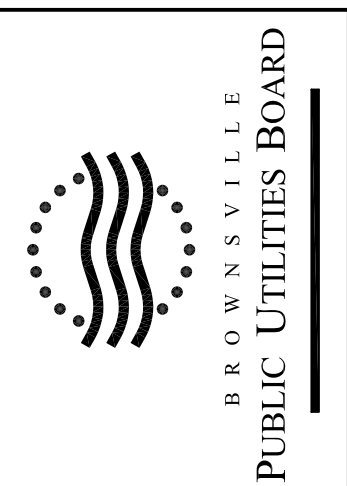
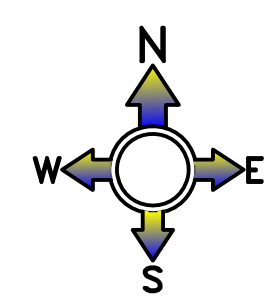
CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS  
S. BROWNE AVE, FLORIDA ROAD  
SALDIVAR ROAD  
HOCKADAY STREET

NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			

Scale: AS SHOWN Date: MAY 2019  
Designed by: ALFREDO J. RESENDEZ  
Drawn by: A. HERNANDEZ  
Checked by: ALFREDO J. RESENDEZ  
Approved by: ALFREDO J. RESENDEZ  
Project #: .....



**S. OKLAHOMA AVE.**  
SCALE: 1" = 100'



Public Utilities Board  
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Brownsville, Texas 78521  
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CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS  
**S. OKLAHOMA AVE.**

**LEGEND**

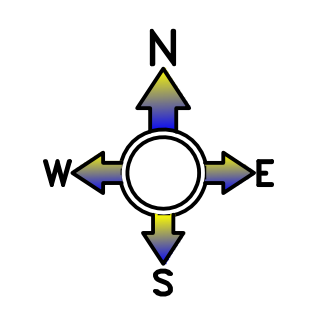
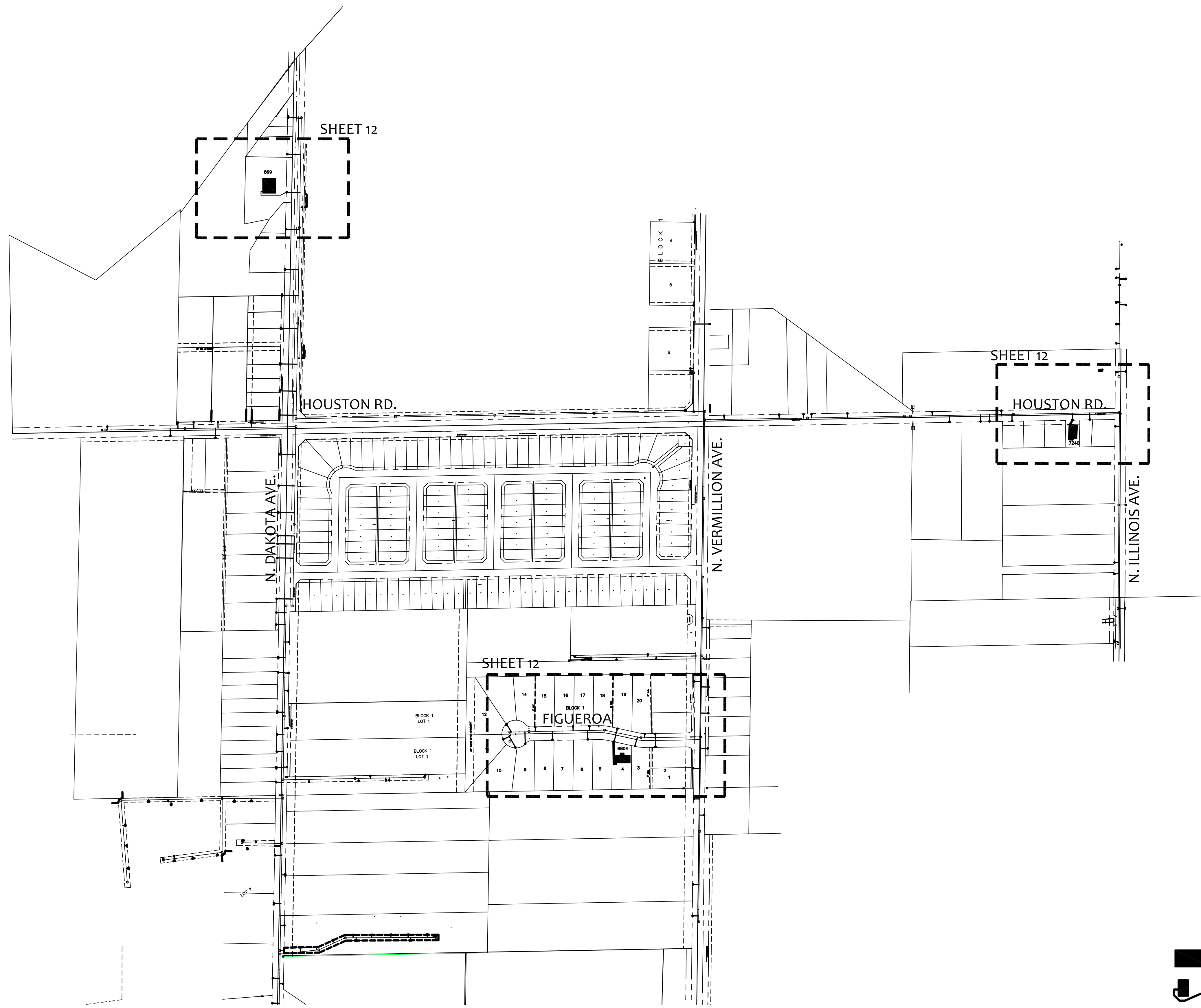
- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

SHEET QUANTITIES	
QUANTITY	ITEM
2 EA.	4" PVC YARDLINE(UNDER 150 FT.)
1 EA.	4" PVC YARDLINE(151 FT.-300 FT.)
1 EA.	4" PVC YARDLINE(301 FT.-500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
4 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

NOTE:  
SERVICE LINES SHOWN ARE FOR ILLUSTRATION  
PURPOSES ONLY. ACTUAL LOCATION AND LENGTH  
WILL BE VERIFIED BY THE INSPECTOR IN THE FIELD.

NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			

Scale: AS SHOWN Date: MAY 2019  
Designed by: ALFREDO J. RESENDEZ  
Drawn by: A. HERNANDEZ  
Checked by: ALFREDO J. RESENDEZ  
Approved by: ALFREDO J. RESENDEZ  
Project #: .....



**PROJECT OVERVIEW AREA 3**  
SCALE: 1" = 200'

**LEGEND**

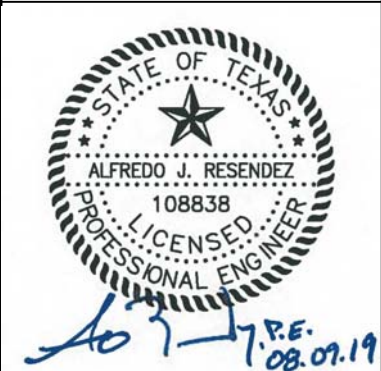
- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

NOTE:  
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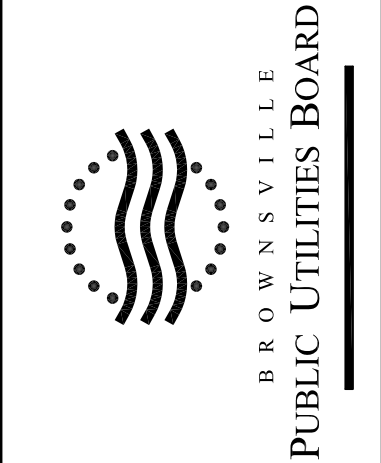
Scale: AS SHOWN	Date: MAY 2019
Designed by: ALFREDO J. RESENDEZ	
Drawn by: A. HERNANDEZ	
Checked by: ALFREDO J. RESENDEZ	
Approved by: ALFREDO J. RESENDEZ	
Project #:	.....

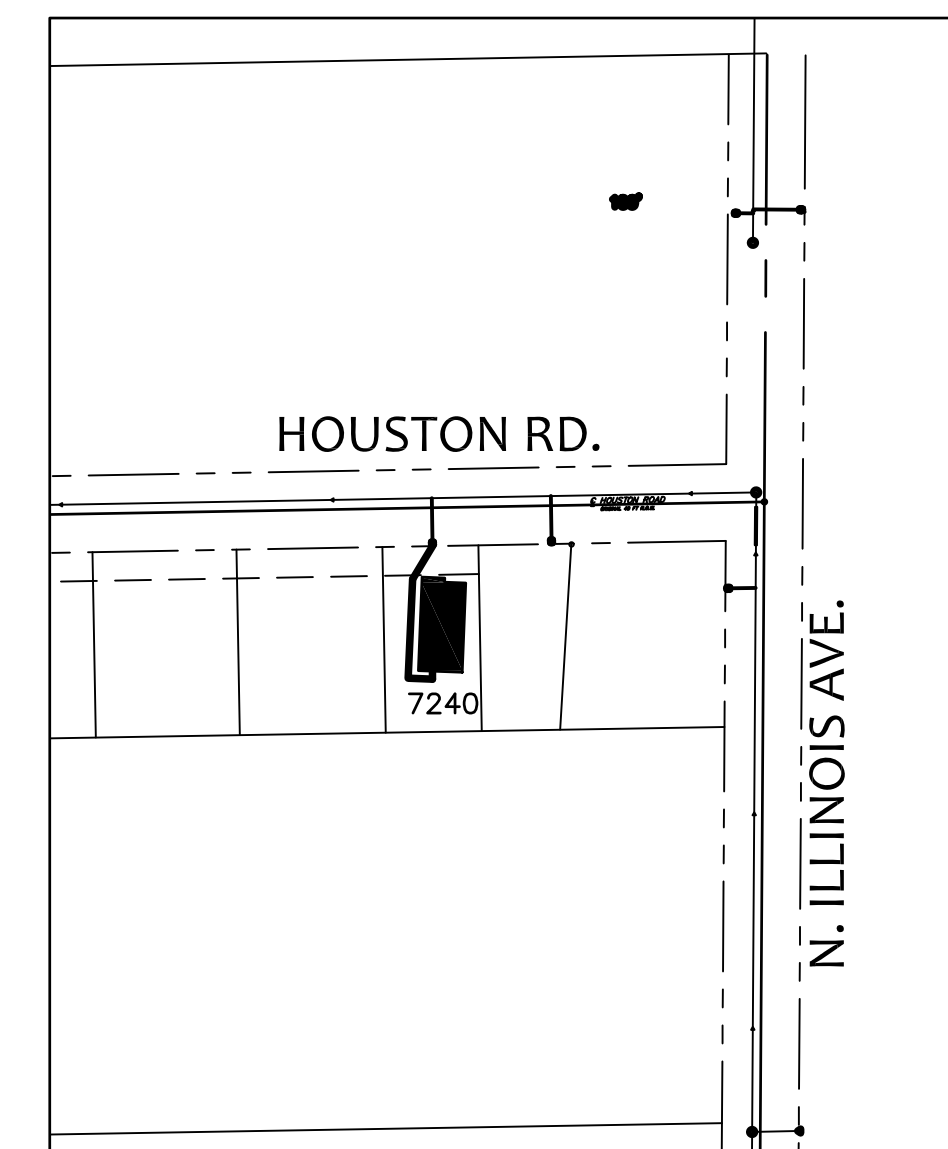
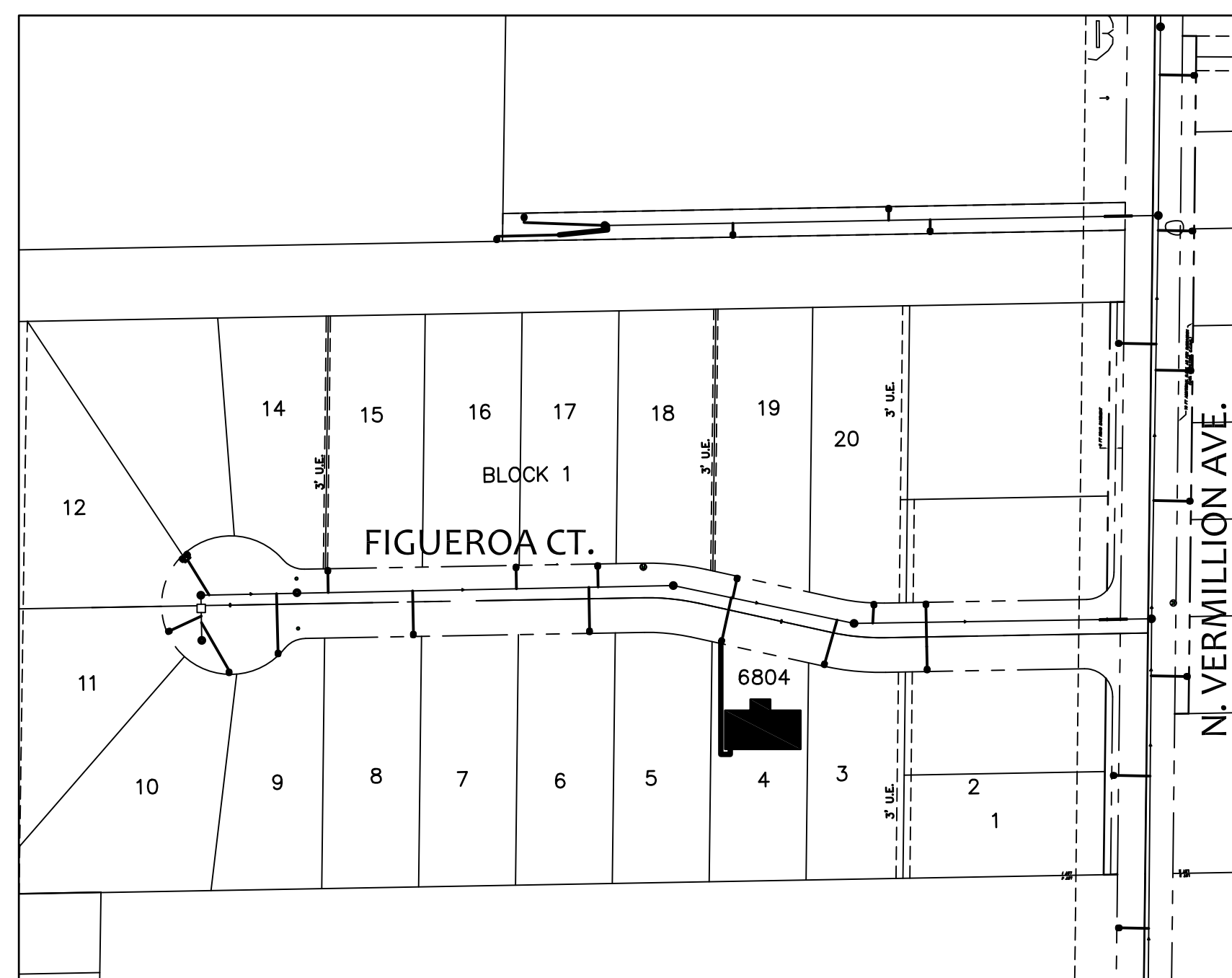
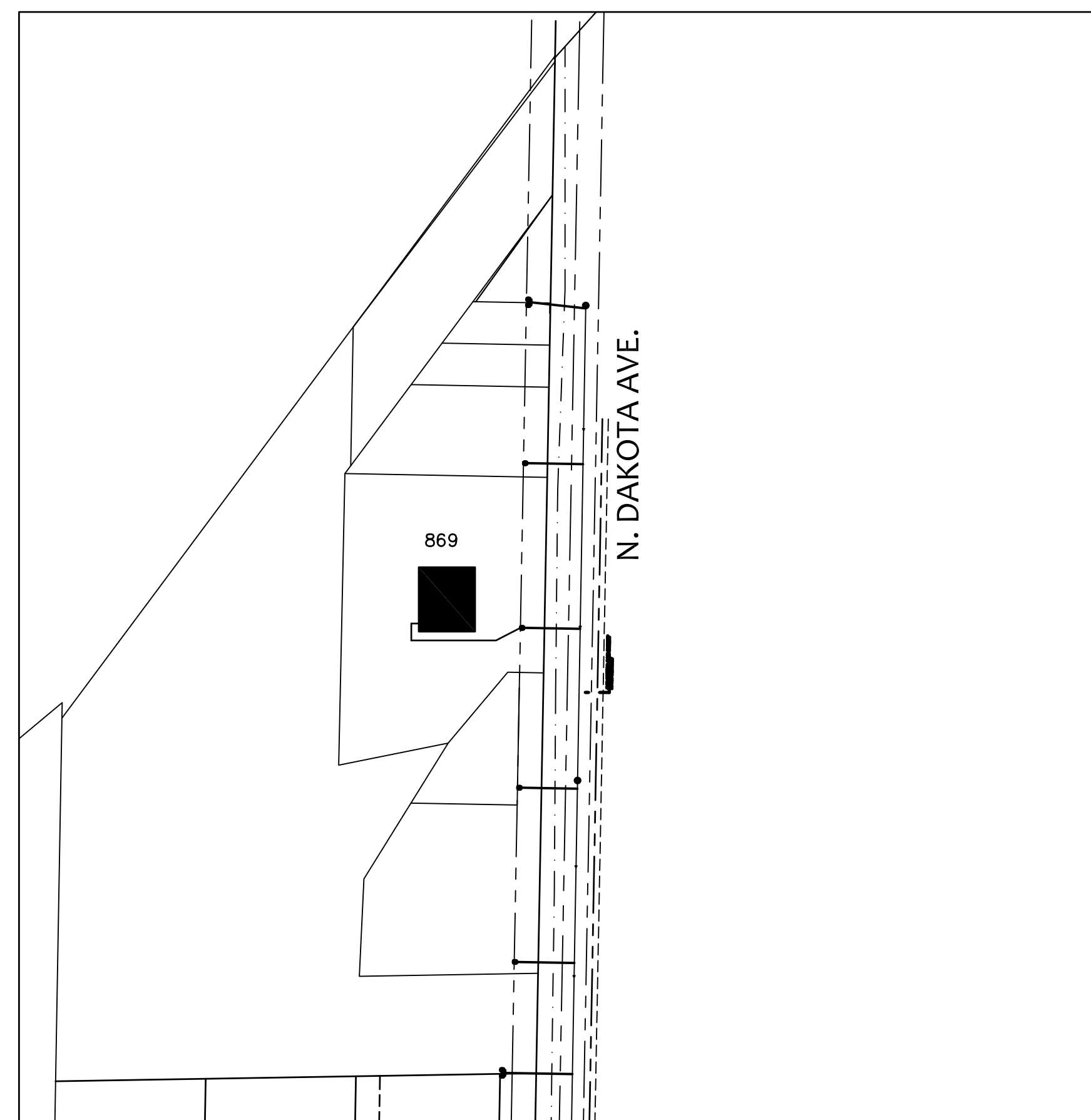
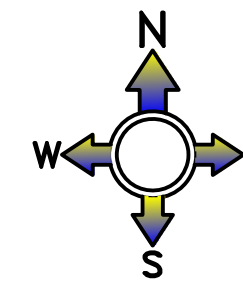
NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			

CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLAINE CONNECTIONS  
**PROJECT OVERVIEW AREA 3**



Public Utilities Board  
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**LEGEND**

- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

SHEET QUANTITIES	
QUANTITY	ITEM
3 EA.	4" PVC YARDLINE(UNDER 150 FT.)
0 EA.	4" PVC YARDLINE(151 FT.-300 FT.)
0 EA.	4" PVC YARDLINE(301 FT.-500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
3 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

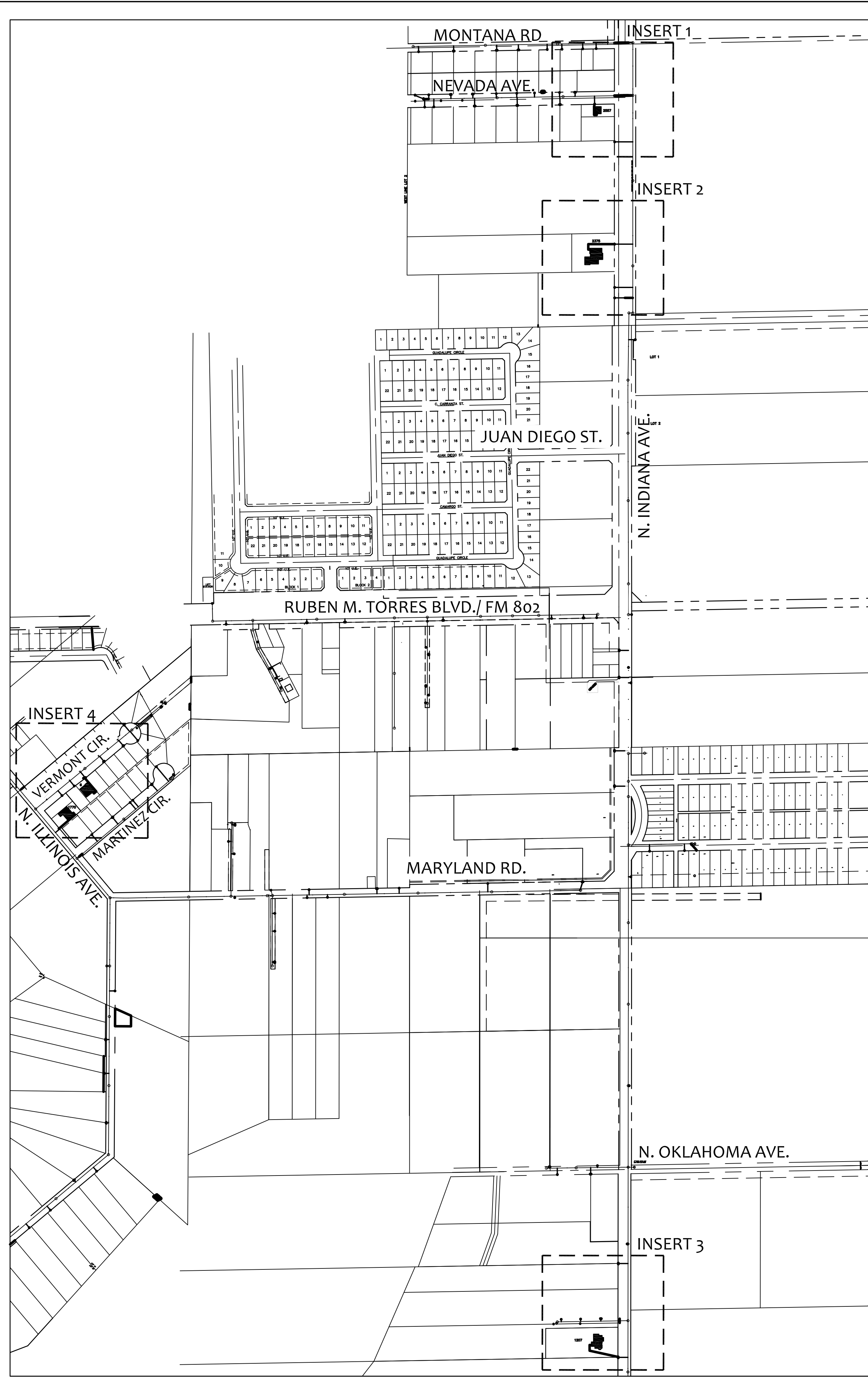
NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			

Scale: AS SHOWN Date: MAY 2019  
Designed by: ALFREDO J. RESENDEZ  
Drawn by: A. HERNANDEZ  
Checked by: ALFREDO J. RESENDEZ  
Approved by: ALFREDO J. RESENDEZ  
Project #: .....

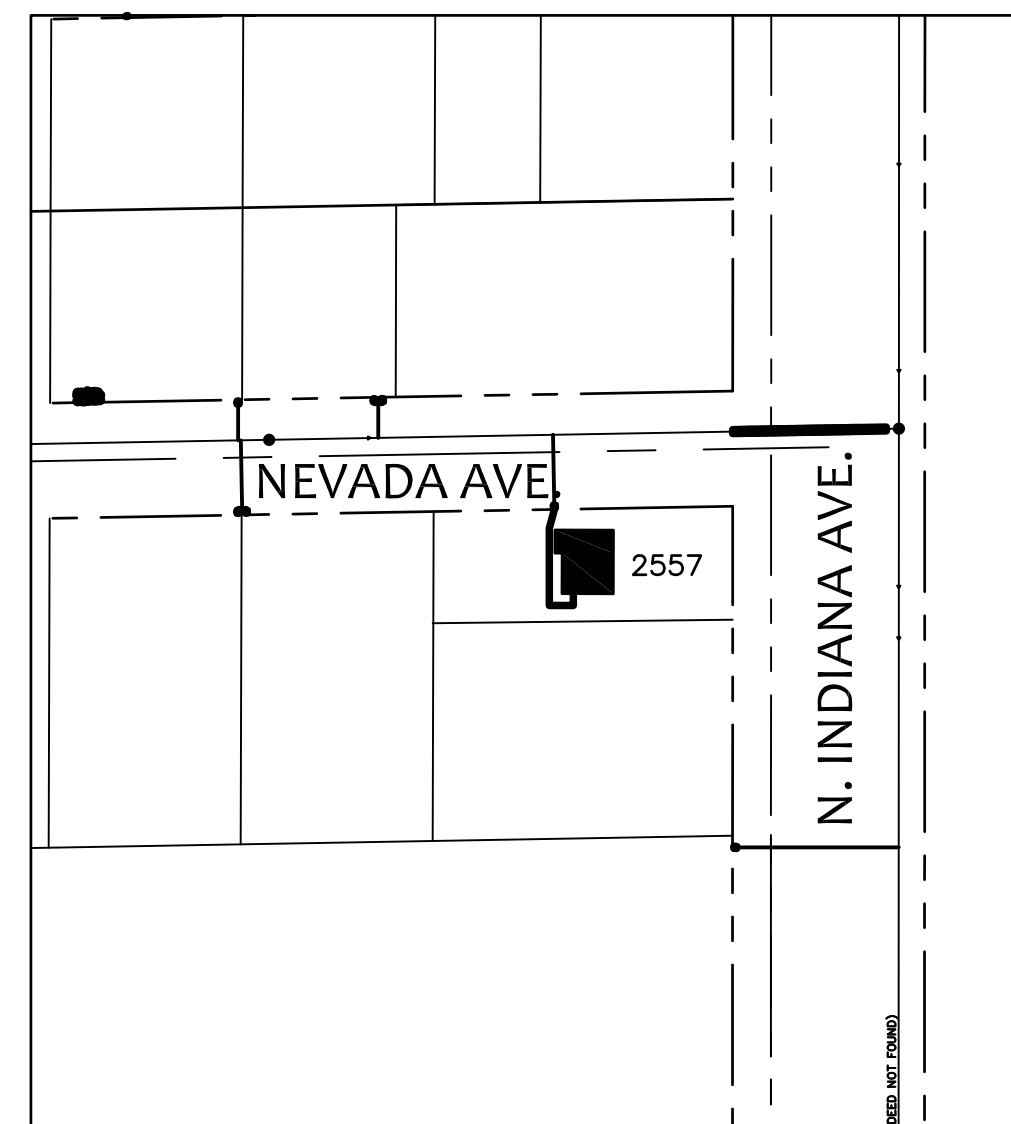
**HOUSTON RD., N. DAKOTA AVE. & FIGUEROA CT.**

SCALE: 1" = 100'

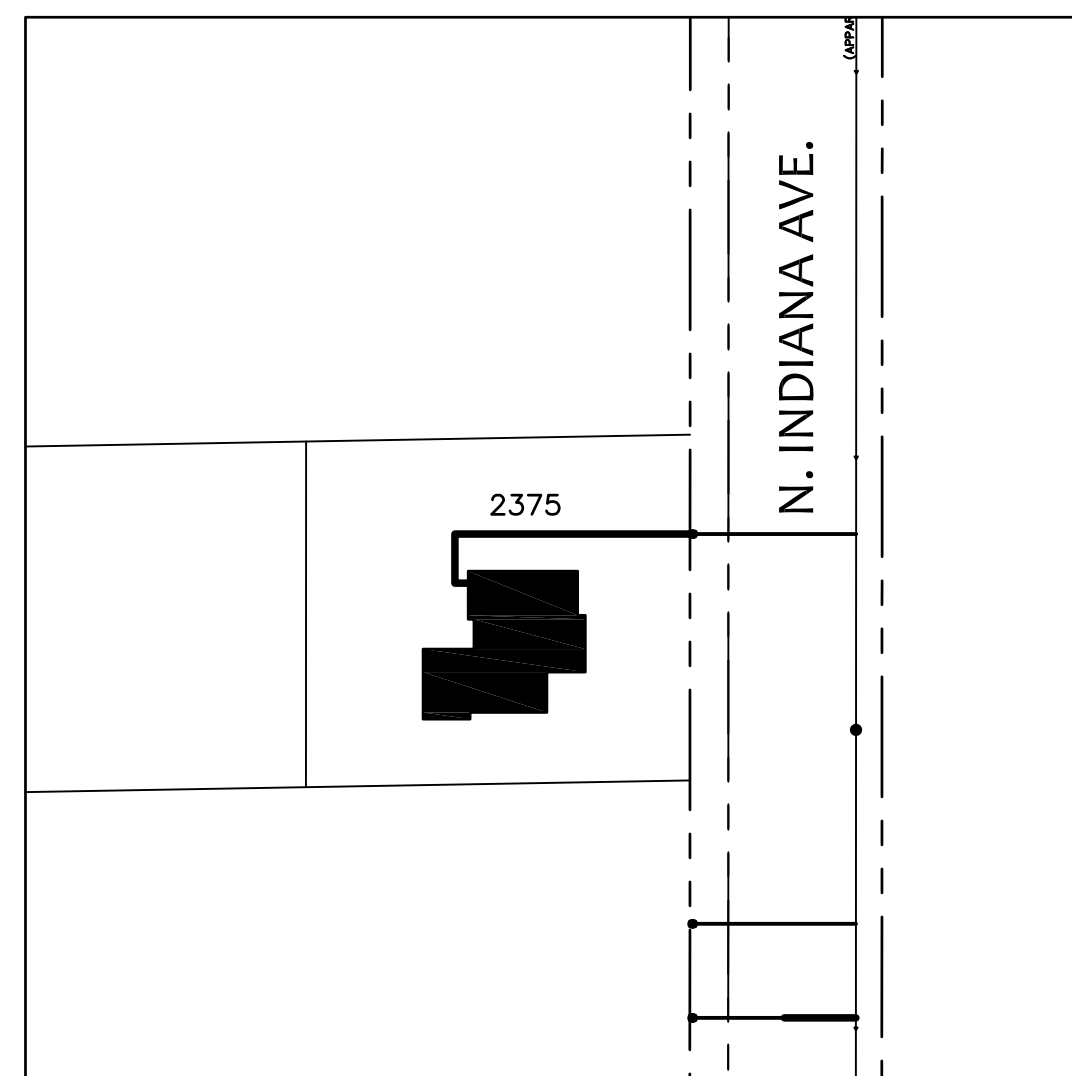
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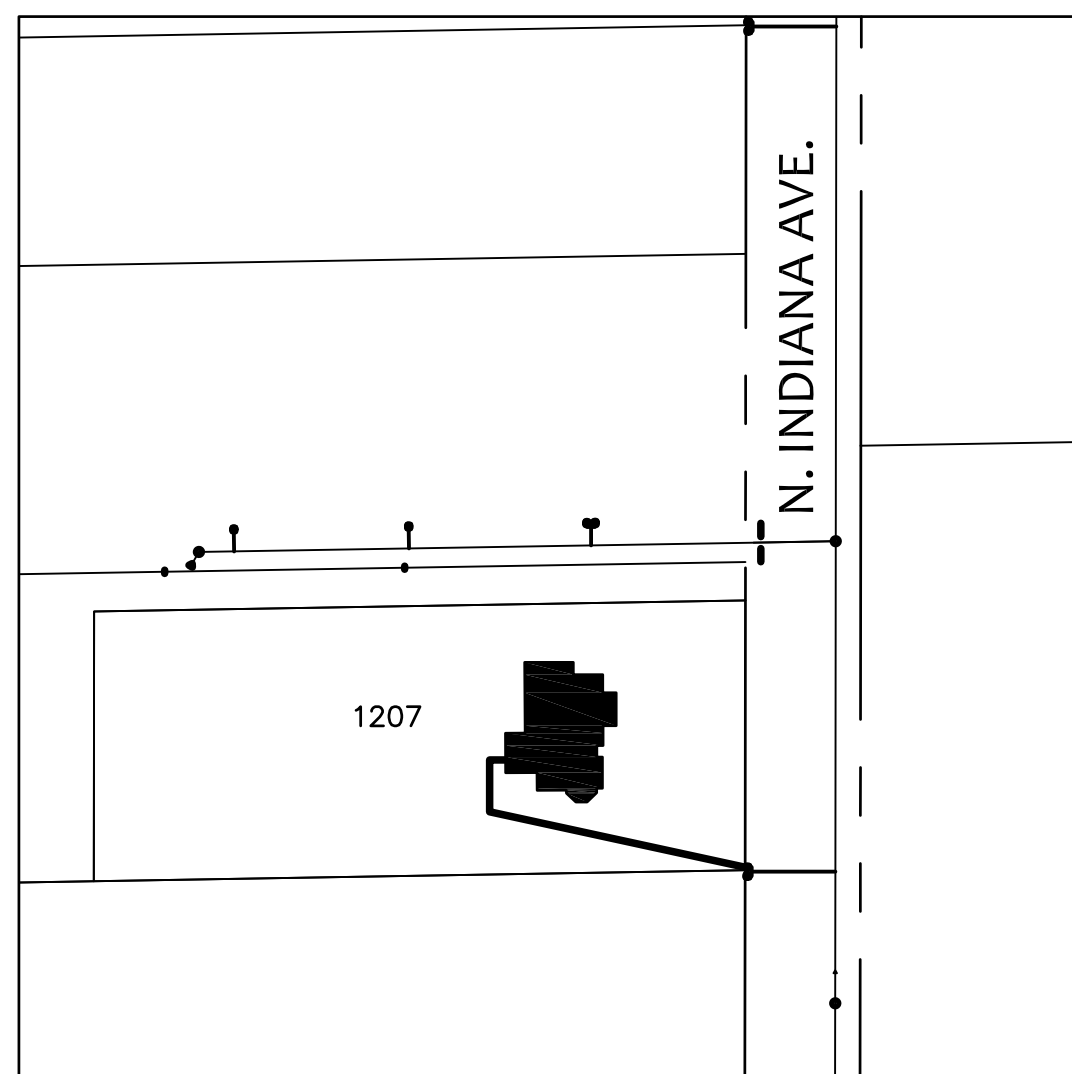
**PROJECT OVERVIEW AREA 4**  
SCALE: 1" = 300'



**INSERT 1**  
SCALE: 1" = 100'



**INSERT 2**  
SCALE: 1" = 100'



**INSERT 3**  
SCALE: 1" = 100'



**INSERT 4**  
SCALE: 1" = 100'

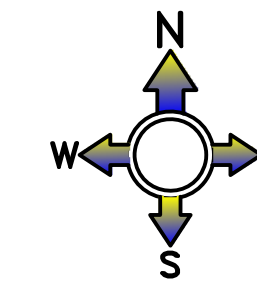
**LEGEND**

- TO BE CONNECTED LOW/MID INCOME
- YARDLINE CONNECTION
- DOUBLE SEWER SERVICES
- SINGLE SEWER SERVICE
- EXISTING R.O.W.

NOTE:  
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SHEET QUANTITIES	
QUANTITY	ITEM
3 EA.	4" PVC YARDLINE(UNDER 150 FT.)
2 EA.	4" PVC YARDLINE(151 FT. -300 FT.)
0 EA.	4" PVC YARDLINE(301 FT. -500 FT.)
0 EA.	4" PVC YARDLINE(OVER 501 FT.)
5 EA.	DECOMMISSIONING OF SEPTIC SYSTEM

NOTE:  
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CAMERON COUNTY CEDAP PHASE 2  
FM 511-802 HOME YARDLINE CONNECTIONS  
**PROJECT OVERVIEW AREA 4**  
N. INDIANA AVE., N. ILLINOIS AVE,  
VERMONT CIR., NEVADA AVE.

NO.	DATE	REVISION	APPROV.
5			
4			
3			
2			
1			