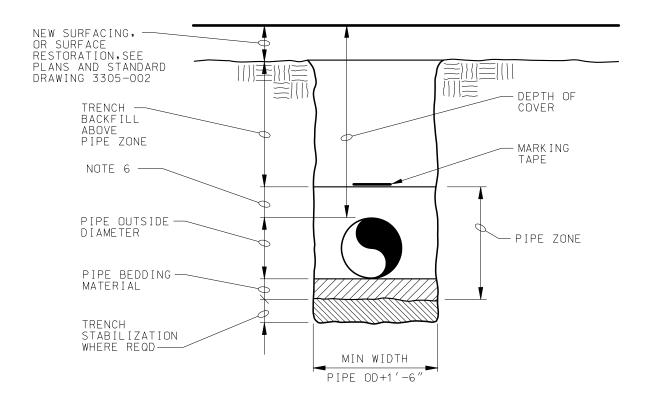
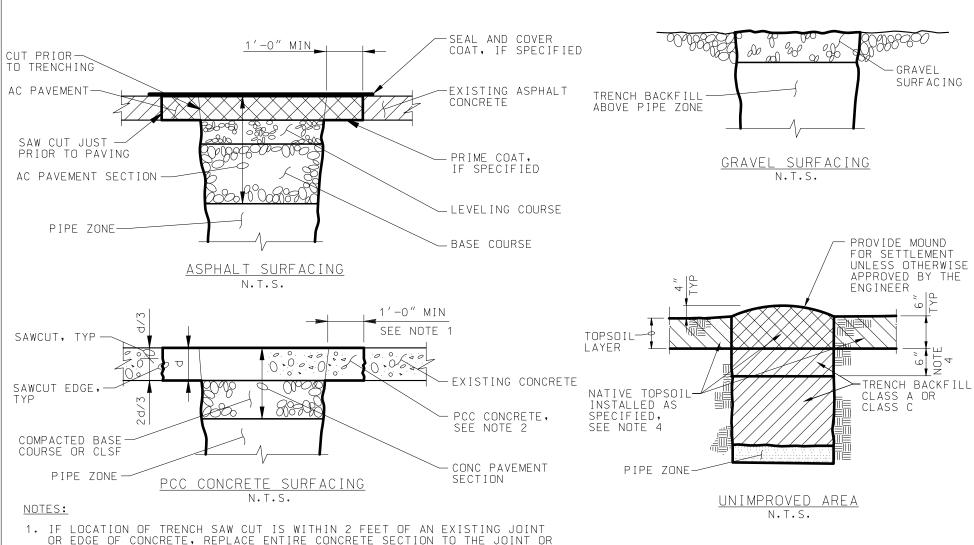
# SECTION 5 STANDARD DRAWING INDEX

DWG NO.	TITLE
	T
3305-001	TYPICAL TRENCH
3305-002	SURFACE RESTORATION
3305-500	SERVICE LINE STANDARD SYMBOLS AND ABBREVIATIONS
3305-505	ILLUSTRATION OF NUMBER OF SERVICE LINES REQUIRED FOR HOUSE, GARDEN HOME, TOWNHOUSE, PATIO HOME OR DUPLEX
3305-510	ILLUSTRATION OF NUMBER OF SERVICE LINES REQUIRED FOR COMMERCIAL DEVELOPMENTS
3305-515	ILLUSTRATION OF TYPICAL SERVICE LINE FOR A RESTAURANT
3305-520	ILLUSTRATION OF SERVICE LINE REQUIREMENTS FOR MOBILE HOME PARK
3305-525	SERVICE LINE DETAIL
3305-530	SERVICE LINE CONNECTION TO AN EXISTING 4" OR 6" STUB-OUT FROM MAIN SEWER
3305-535	SERVICE LINE CONNECTION TO EXISTING MAIN SEWER GREATER THAN 18"
3305-540	MAIN SEWER CONNECTION RISER
3305-545	MANHOLE SERVICE LINE CONNECTION
3305-550	SERVICE LINE CLEANOUT FOR C-900
3305-555	SERVICE LINE CLEANOUT FOR D.I.P.
3305-560	SERVICE LINE CLEANOUT FOR SCH 40
3305-565	SERVICE LINE HORIZONTAL CHANGE IN DIRECTION
3305-570	MOBILE HOME "P" TRAP
3305-575	SERVICE LINE PERMANENT CAPPING FOR ABANDONED CONNECTION TO MAIN SEWER



- CONTRACTOR SHALL SLOPE TRENCH WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY AND IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS.
- 2. FOUNDATION STABILIZATION MATERIAL SHALL BE INSTALLED ONLY AS APPROVED AND DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE SPECIFICATION.
- 3. SEE SPECIFICATION SECTION 31 23 16 EXCAVATION AND 31 23 23 TRENCH BACKFILL.
- 4. COORDINATE LOCATION OF MARKING TAPE WITH SPECIFICATIONS. PROVIDE NEW SURFACING AS SHOWN ON THE DRAWINGS.
- 5. WHERE TRENCHES ARE IN AREAS NOT DESIGNATED TO RECEIVE NEW ASPHALT, GRAVEL OR PCC CONCRETE SURFACING, RESTORE EXISTING SURFACE USING SEED OR SOD AS DIRECTED.
- 6. MINIMUM DEPTH OVER PIPE IS BY SIZE AND SERVICE AS FOLLOWS: a. 4" AND 6" GRAVITY SERVICE: 6" MIN.
  - 6. 8" GRAVITY SERVICE AND LARGER AND ALL FORCE MAINS: 12" MIN.

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
01/15	TEXT UPDATE	ENVIRONMENTAL SERVICES DEPARTMENT
		TYPICAL TRENCH
MAY 2015		
APPROVED:		STANDARD DRAWING NO. 3305-001



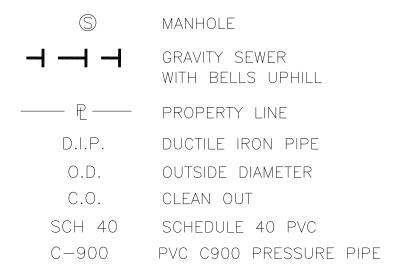
DATE

DEVICIONIC

- EDGE.
- 2. CONSTRUCT JOINTS ACROSS NEW CONCRETE TO MATCH EXISTING JOINT TYPES AND LOCATIONS.
- 3. SURFACE RESTORATION MUST BE COMPATIBLE WITH TYPE OF BACKFILL USED. COMPACTED CRUSHED ROCK AND LEVELING COURSE BASE SHOULD NOT BE PLACED ON NATIVE MATERIAL.
- 4. THE TOP 6" OF TRENCH BACKFILL, BENEATH THE TOPSOIL LAYER, SHOULD BE INSTALLED, SMOOTHED, BUT LEFT UN-COMPACTED.
- 5. TOPSOIL SHALL EXTEND BEYOND TOP OF TRENCH A MINIMUM OF 12".
- 6. SOD OR SEED AS DIRECTED.

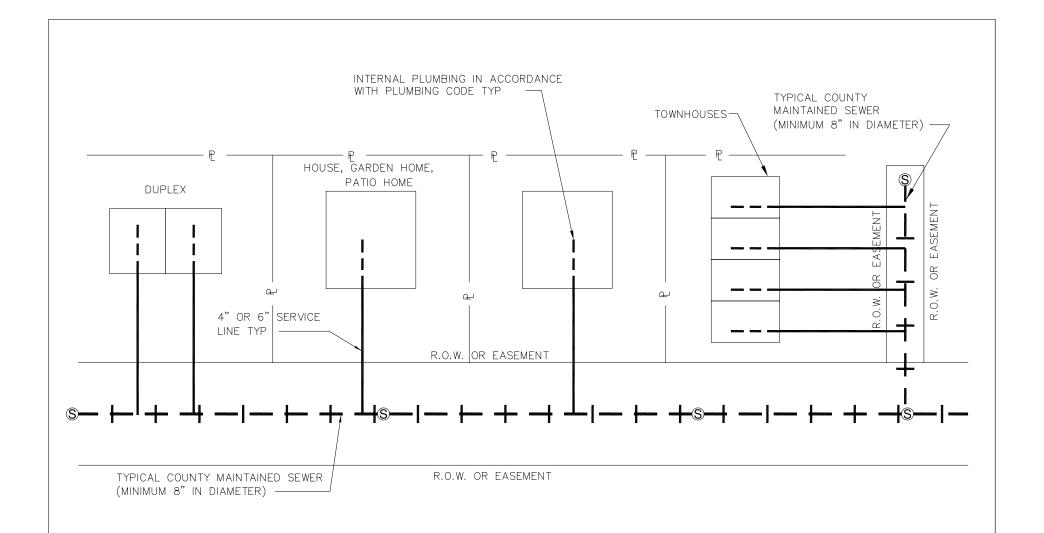
DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
01/15	TEXT UPDATE	ENVIRONMENTAL SERVICES DEPARTMENT
01/13	ITEXT OF DATE	
		SURFACE RESTORATION
	MAY 2015	
1\	MAI ZUIJ	
APPR	OVED:	STANDARD DRAWING NO. <u>3305-002</u>

IEEEEDOONI OOLINITY ALADAMA



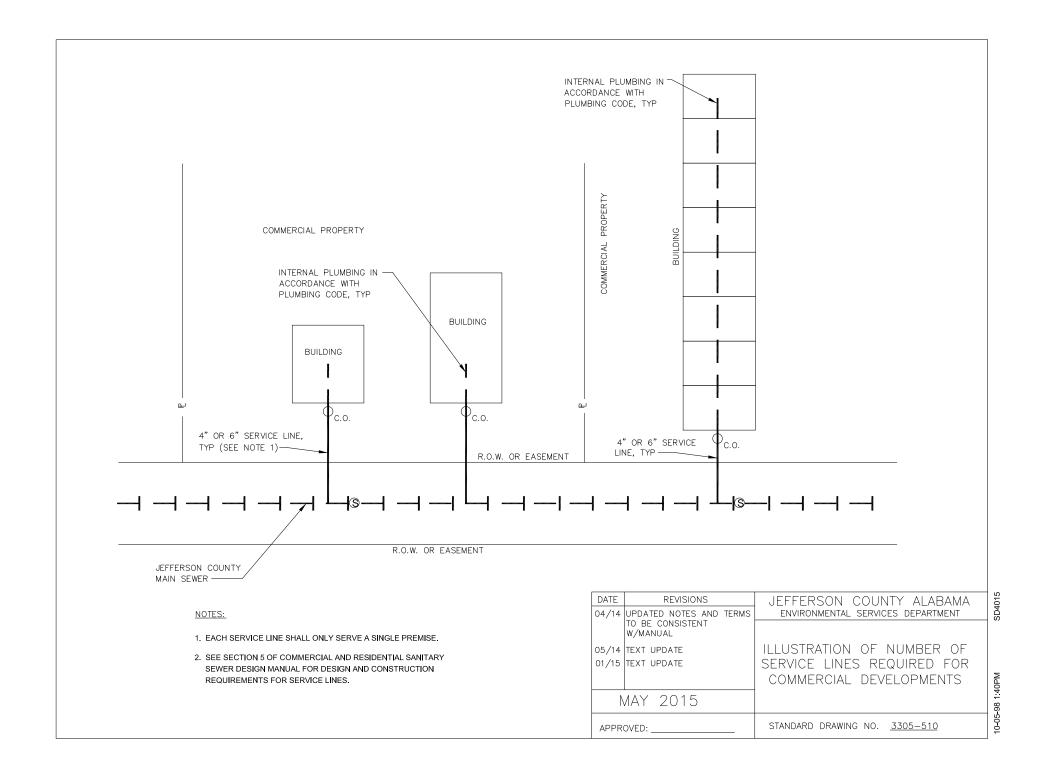
DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
05/14	TEXT UPDATE	ENVIRONMENTAL SERVICES DEPARTMENT
01/15	TEXT UPDATE	
		SERVICE LINE
		STANDARD SYMBOLS
		AND ABBREVIATIONS
MAY 2015		, , , , , , , , , , , , , , , , , , , ,
APPROVED:		STANDARD DRAWING NO. 3305-500

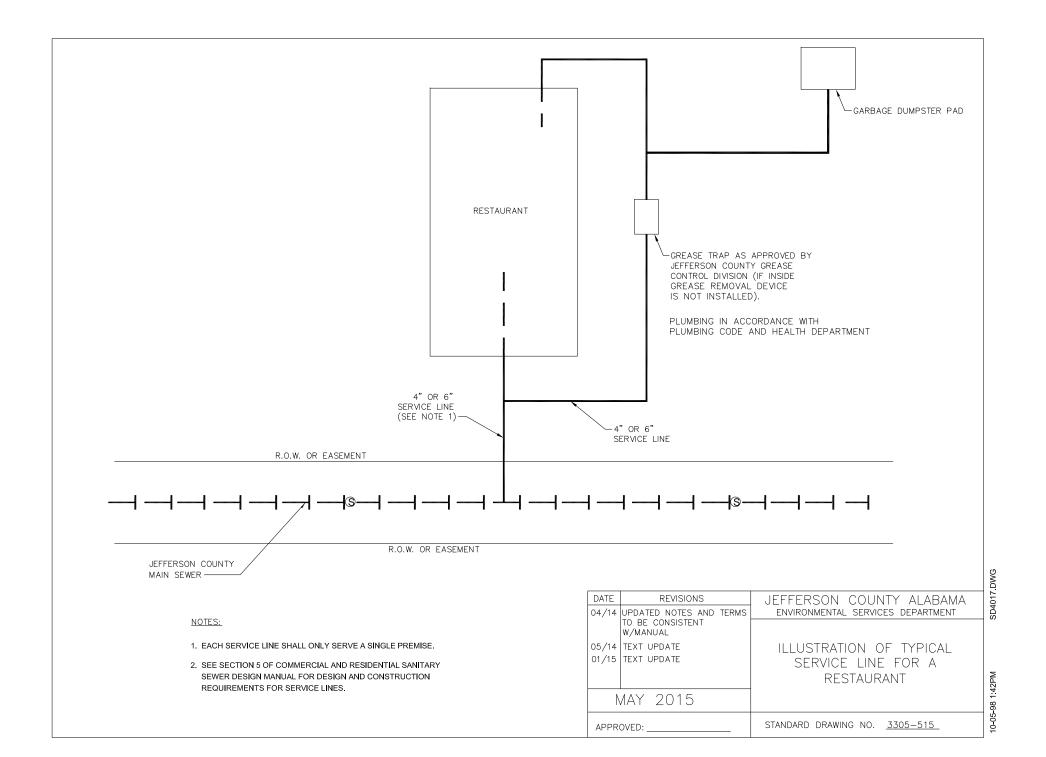
SD4000

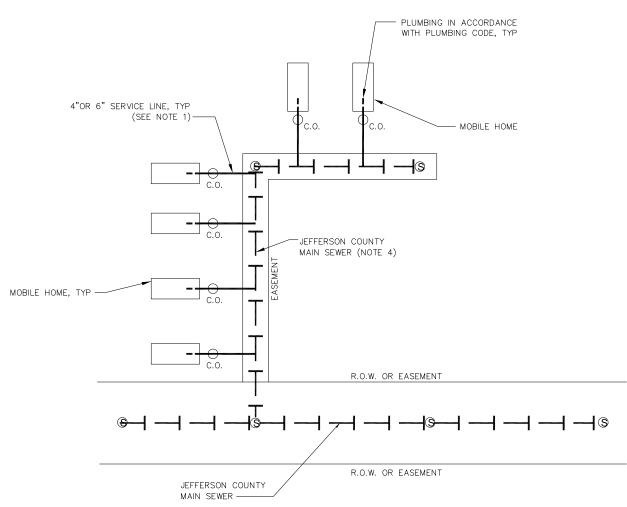


- 1. EACH INDIVIDUAL OWNER SHALL HAVE THEIR OWN SERVICE LINE.
- 2. THE 8" MAIN SHALL BE DESIGNED, SUBMITTED FOR APPROVAL, AND CONSTRUCTED IN ACCORDANCE WITH THE JEFFERSON COUNTY STANDARDS FOR CONSTRUCTION OF COMMERCIAL AND RESIDENTIAL SANITARY SEWER SYSTEMS.

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
11/15	TEXT UPDATE	ENVIRONMENTAL SERVICES DEPARTMENT
11710	TEXT OF BITTE	ILLUSTRATION OF NUMBER
		OF SERVICE LINES REQUIRED
		FOR HOUSE, GARDEN HOME,
		TOWNHOUSE, PATIO HOME
1	NOV 2015	OR DUPLEX
APPR	OVED:	STANDARD DRAWING NO. <u>3305-505</u>





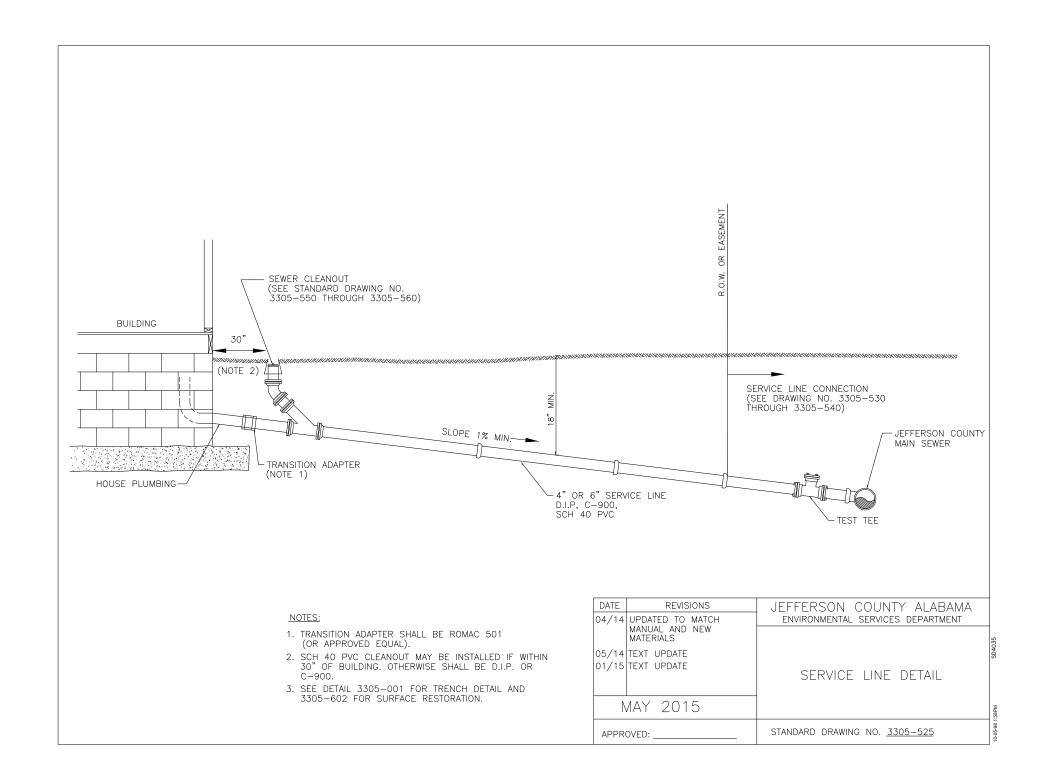


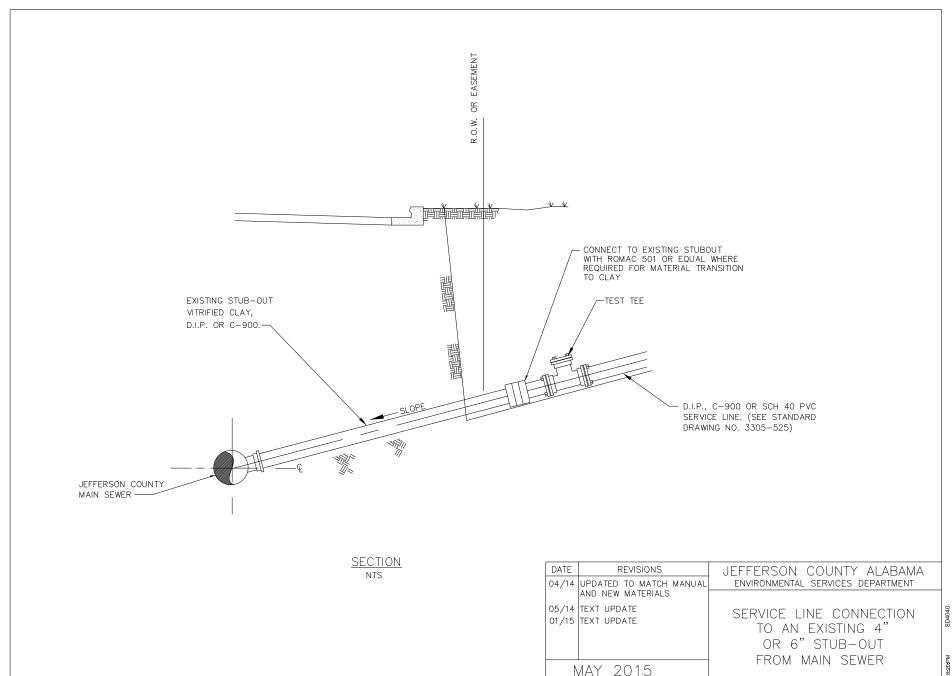
- 1. EACH SERVICE LINE SHALL ONLY SERVE A SINGLE MOBILE HOME.
- 2. SEE SECTION 5 OF COMMERCIAL AND RESIDENTIAL SANITARY SEWER DESIGN MANUAL FOR SERVICE LINES.
- 3. "P" TRAP SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. 3305-570.
- MAIN SEWER SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 6 OF THE COMMERCIAL AND RESIDENTIAL DESIGN AND CONSTRUCTION MANUAL.

DATE	REVISIONS		JEFFERSON COUNTY ALABAMA	1
04/14	UPDATED NOTES AND TO BE CONSISTENT	TERMS	ENVIRONMENTAL SERVICES DEPARTMENT	_
	W/MANUAL			
05/14	TEXT UPDATE		ILLUSTRATION OF SERVICE	
01/15	TEXT UPDATE		LINE REQUIREMENTS FOR	
			MOBILE HOME PARK	
MAY 2015				
APPR	OVED:	_	STANDARD DRAWING NO. 3305-520	

SD402

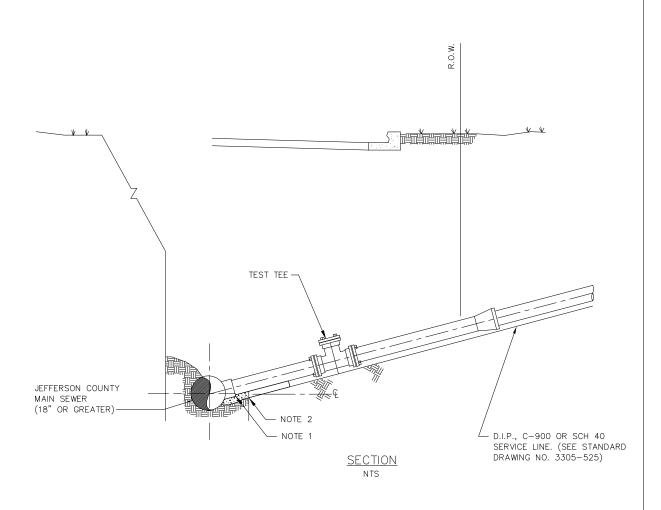
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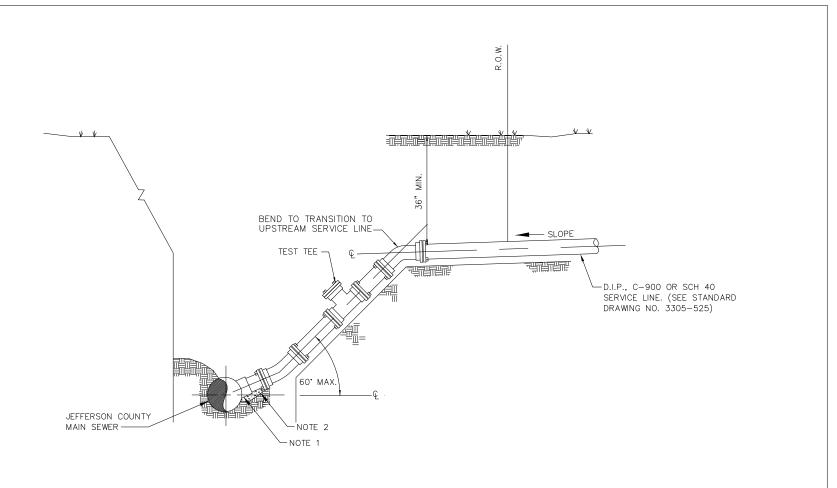
APPROVED: \_

STANDARD DRAWING NO. 3305-530



- 1. TAP PIPE AND PROVIDE WATERTIGHT CONNECTION USING INSERTA TEE OR ROMAC CB.
- 2. BACKFILL UNDER TAP WITH FLOWABLE FILL. DO NOT ENCASE INSERTA OR ROMAC CB TEE IN FLOWABLE FILL IN FLOWABLE FILL.
- 3. BACKFILL ABOVE AND AROUND TEE WITH NO. 57 OR NO. 67 AGGREGATE.

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
04/14	UPDATED TO MATCH MANUAL	ENVIRONMENTAL SERVICES DEPARTMENT
05/14	AND NEW MATERIALS TEXT UPDATE	SERVICE LINE CONNECTION
,	TEXT UPDATE	TO EXISTING
		MAIN SEWER
		GREATER THAN 18"
١	MAY 2015	
APPR	OVED:	STANDARD DRAWING NO. 3305-535



### SECTION NTS

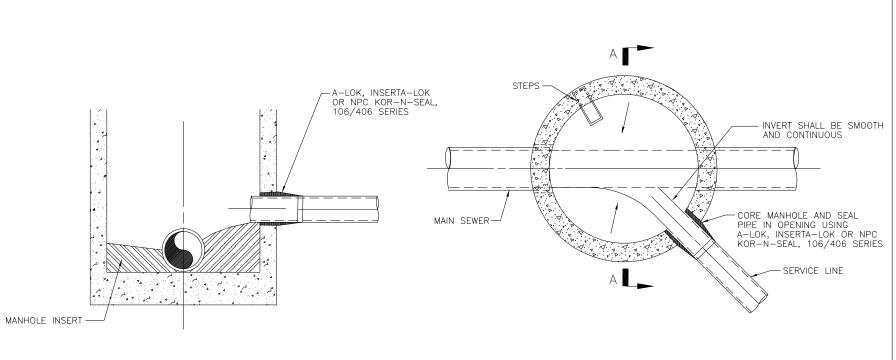
### NOTES:

- TAP PIPE AND PROVIDE WATERTIGHT CONNECTION USING INSERTA TEE OR ROMAC CB.
- 2. BACKFILL UNDER TAP WITH FLOWABLE FILL. DO NOT ENCASE INSERTA TEE OR ROMAC CB IN FLOWABLE FILL.
- 3. BACKFILL ABOVE AND AROUND TEE WITH NO. 57 OR NO. 67 AGGREGATE.

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA
04/14	UPDATED TO MATCH MANUAL AND NEW MATERIALS	ENVIRONMENTAL SERVICES DEPARTMENT
1 '	TEXT UPDATE TEXT UPDATE	MAIN SEWER CONNECTING RISER
1	MAY 2015	
APPR	OVED:	STANDARD DRAWING NO. 3305-540

SD

10-05-98 3:33PM



A-A SECTION N.T.S.

MANHOLE BASE PLAN N.T.S.

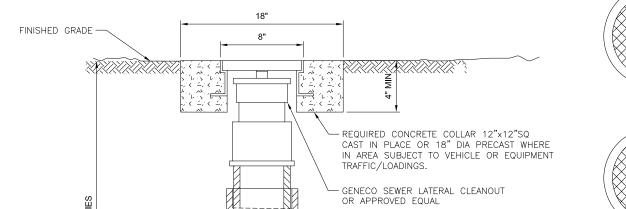
#### NOTES:

1. CONNECTION TO A MANHOLE REQUIRES APPROVAL OF THE ENVIRONMENTAL SERVICES DEPARTMENT.

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA	
04/14	UPDATE TO MATCH MANUAL AND NEW MATERIALS	ENVIRONMENTAL SERVICES DEPARTMENT	OW D
05/14	TEXT UPDATE TEXT UPDATE	MANHOLE SERVICE LINE CONNECTION	sd4080
1	MAY 2015		2.45DM
APPROVED:		STANDARD DRAWING NO. 3305-545	1000



OR

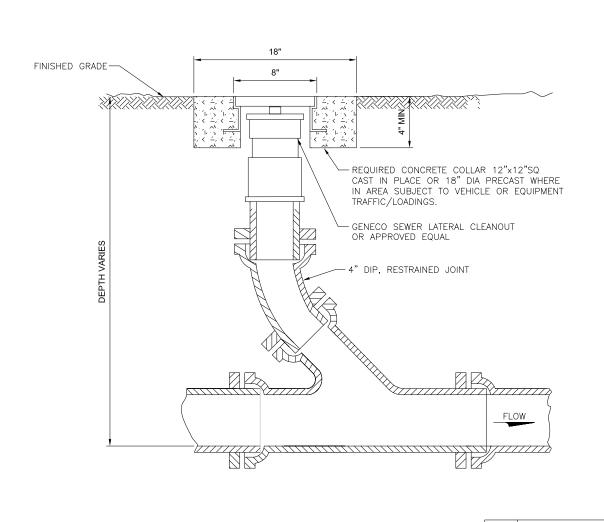


C-900

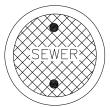
FLOW

LID MUST HAVE
"SEWER" OR "C.O."
STAMPED ON IT
FROM THE FACTORY

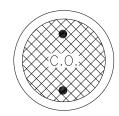
DATE	REVISIONS	JEFFERSON COUNTY ALABAMA	
04/14	UPDATE TO MATCH MANUAL AND NEW MATERIALS	ENVIRONMENTAL SEVICES DEPARTMENT	4
01/15			1
01713	TEXT OF BATE	SERVICE LINE CLEANOUT FOR C-900	
MAY 2015			
APPROVED:		STANDARD DRAWING NO. 3305-550	



### COVER DETAIL

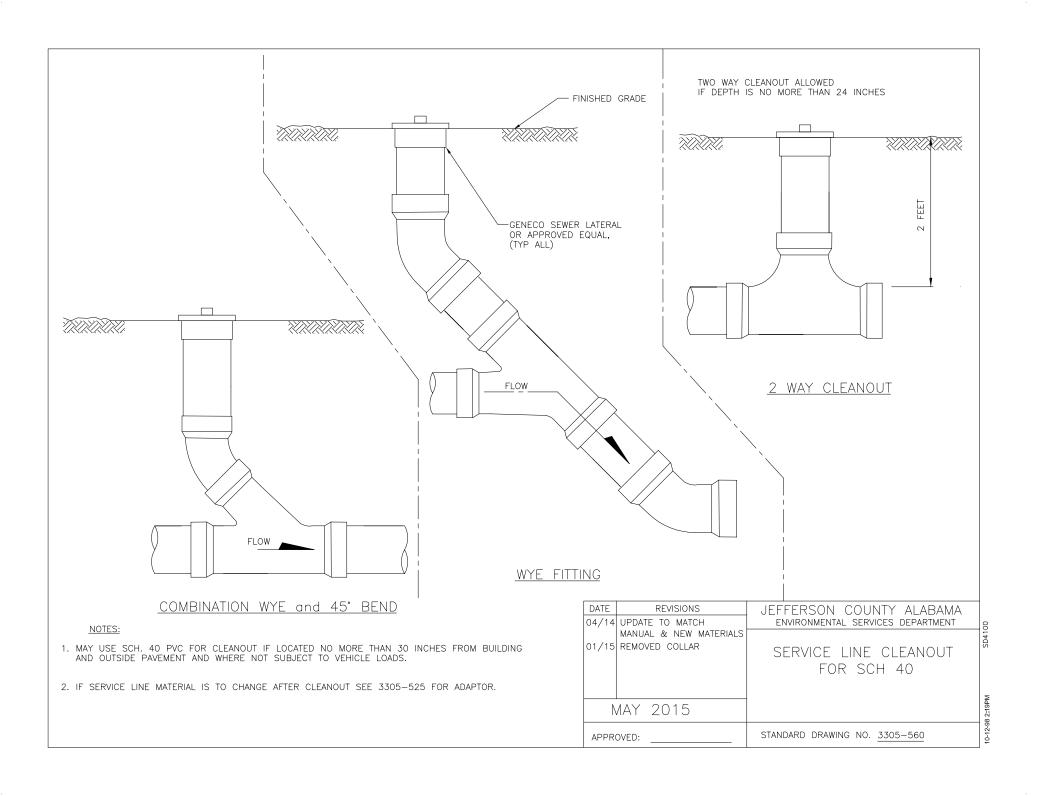


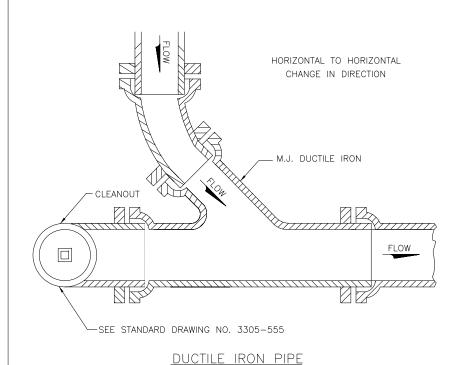
OR



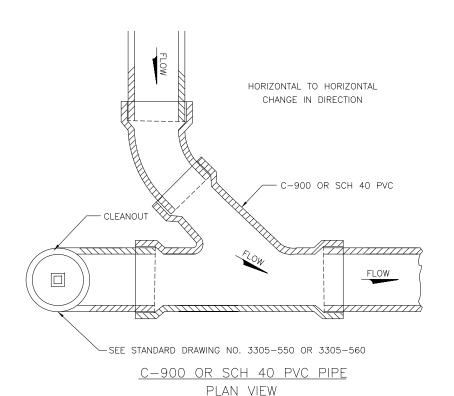
LID MUST HAVE "SEWER" OR "C.O." STAMPED ON IT FROM THE FACTORY

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA	
04/14	UPDATED TO MATCH MANUAL & NEW MATERIALS	ENVIRONMENTAL SEVICES DEPARTMENT	SD4093
01/15	TEXT UPDATE	SERVICE LINE CLEANOUT FOR D.I.P.	S
<u> </u>	 MAY 2015		8 4:10PM
APPR	OVED:	STANDARD DRAWING NO. 3305-555	0.05-98





PLAN VIEW



JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SEVICES DEPARTMENT

SERVICE LINE
HORIZONTAL CHANGE
IN DIRECTION

STANDARD DRAWING NO. 3305-565

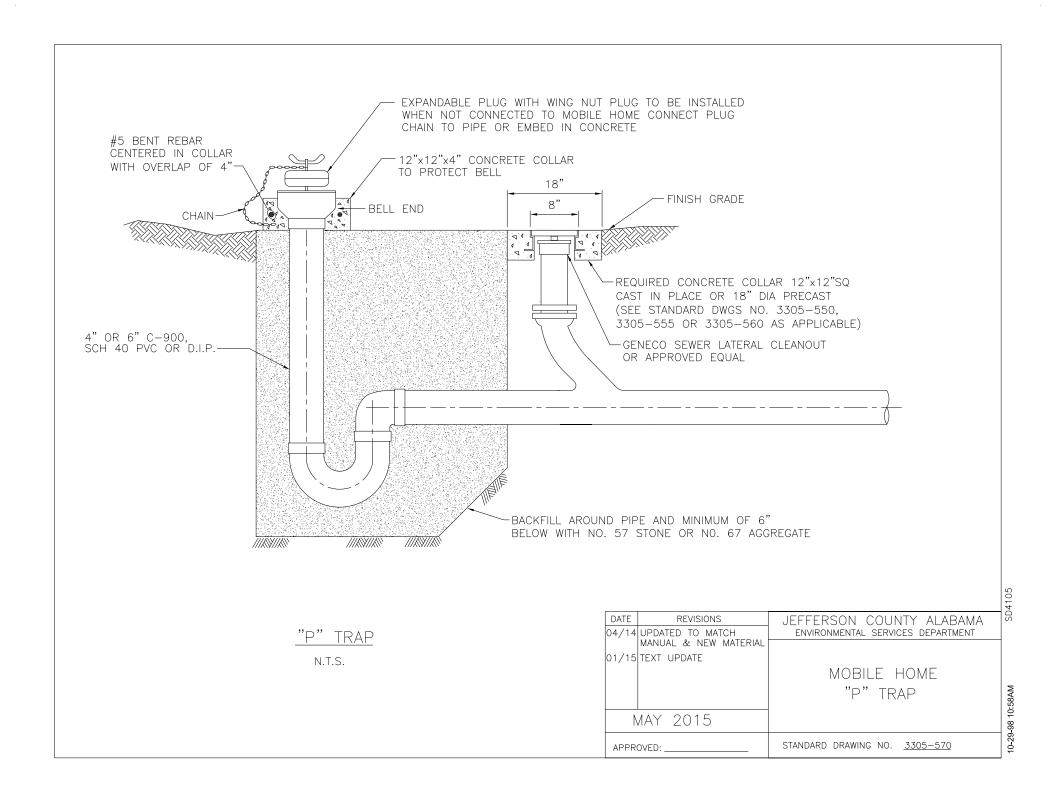
DATE

01/15 TEXT UPDATE

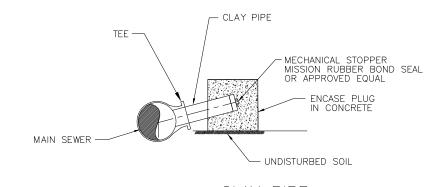
MAY 2015

APPROVED:

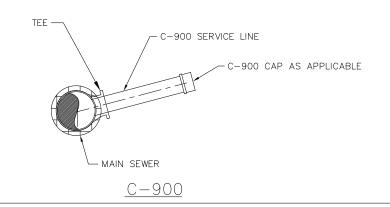
REVISIONS



## SCH 40 PVC



# CLAY PIPE

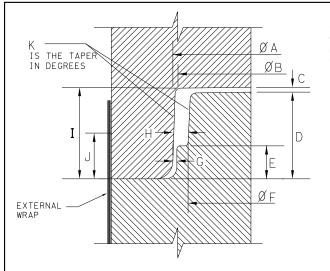


### GENERAL NOTE:

BACKFILL UNDER, AROUND AND 12" ABOVE EXCAVATED SECTION OF SERVICE LINE WITH NO. 57 OR NO. 67 AGGREGATE.

/	- D.I.P. SERVICE LINE
MAIN SEWER	D.I.P. MJ CAP
	<u>D.I.P.</u>

DATE	REVISIONS	JEFFERSON COUNTY ALABAMA	ľ
01/15	TEXT UPDATE	ENVIRONMENTAL SERVICES DEPARTMENT	
		SERVICE LINE	
		PERMANENT CAPPING FOR	
		ABANDONED CONNECTION	
		TO MAIN SEWER	
JAN 2015		TO MAIN SEWER	
APPROVED:		STANDARD DRAWING NO. 3305-575	



lDia.|

48

60

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ØΒ

67.512 67.315 0.160 5.24

79.362 79.105 0.160 5.24

TYLOX-SUPER SEAL PRELUBRICATED —
GASKET TO BE PLACED FIRMLY
AGAINST THE OFFSET ALL THE WAY
AROUND THE SPIGOT OF THE MANHOLE.

SEE REQUIRED SIZE CHART-FOR CONSEAL CS-231

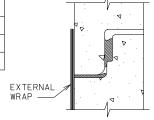
CONSEAL		
CS-231	REQ'D	
SIZE	CHART	
48″ O.D.	3/8"	
60″ I.D.	3/8"	
72″ I.D.	3/8"	
84″ I.D.	3/4"	
96″ I.D.	3/4"	

20

1.8°

1.8°





SEALED MANHOLE JOINT

GASKET DETAILS

N.T.S.

PRECAST
RISER SECTION

STEEL R 1/2" X 3" X 16"

COAT WITH BITUMASTIC

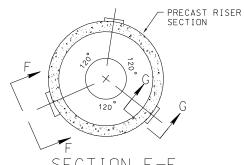
COAL TAR EPOXY ON
ALL SIDES, ENDS
& EDGES

JOINT

3/4" X 3" CINCH ANCHOR BOLTS J 2' UNIT. TYPE 2, COAT HEADS OF BOLTS WITH BITUMASTIC COAL TAR EPOXY BEFORE BACKFILL.

### SECTION F-F SECTION G-G

3 ANCHOR ASSEMBLIES REQUIRED PER JOINT 120° APART.



SECTION E-E

TYPICAL MANHOLE SECTION ANCHOR

DATE	REVISIONS			JEFFERSON COUNTY ALABAMA
05/14	UPDATED	TO MATCH	MANUA	ENVIRONMENTAL SERVICES DEPARTMENT
				MAIN SEWER
				PRECAST MANHOLE
				JOINT DETAILS
	1.4.1.7	0015		OOTH BETATES
	MAY	2015		
APPR	OVED:			STANDARD DRAWING NO. 3305-615

# PRECAST MANHOLE JOINT

G

Н

66.450|0.150|0.500|5.394|3.268

78.233 0.150 0.500 5.400 3.400

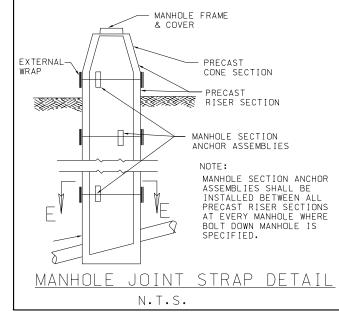
N.T.S.

ØF

53.121 52.966 0.125 4.125 1.600 52.217 0.146 0.452 4.250 2.033

2.68

2.68

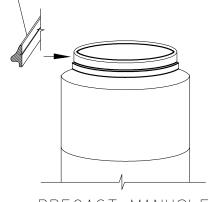


TYLOX-SUPER SEAL PRELUBRICATED

GASKET TO BE PLACED FIRMLY

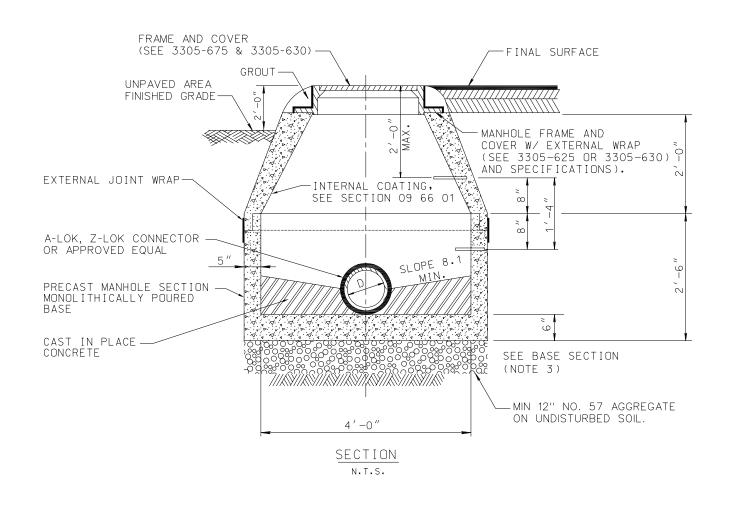
AGAINST THE OFFSET ALL THE WAY

AROUND THE SPIGOT OF THE MANHOLE.



PRECAST MANHOLE

N.T.S.



- 1. WHERE INSTALLED IN ROADWAY OR IN AREA BELOW 100' FLOOD ELEVATION WATERTIGHT MANHOLE FRAME AND COVER SHALL BE INSTALLED.
- 2. SLOPE OF PIPE SHALL EXTEND THROUGH MANHOLE.
- 3. PROVIDE EXTENDED BASE IN AREAS WITH GROUNDWATER.
- 4. SEE SPECIFICATION SECTION 33 05 13 MANHOLES.

L	DATE	REVISIONS	I JEFFERSON COUNTY ALABAMA
Ī	05/14	UPDATED TO MATCH	ENVIRONMENTAL SERVICES DEPARTMENT
١		MANUAL AND NEW	
-		MATERIALS	MAIN CEWED
-			MAIN SEWER
			MINIMUM DEPTH
			MANUACI E
ŀ		11111 0015	MANHOLE
		MAY 2015	
	APPROVED:		STANDARD DRAWING NO. 3305-620

