ADDENDUM NO. ONE (1)
CITY OF HOSCHTON, GEORGIA
PANTHER COURT SEWER SYSTEM IMPROVEMENTS:
CONTRACT 1: SANITARY SEWER REHABILITATION
ISSUED JUNE 10, 2024

RE: PANTHER COURT SEWER SYSTEM IMPROVEMENTS:
CONTRACT 1: SANITARY SEWER REHABILITATION
EMI PROJECT No. 13-059

FROM: ENGINEERING MANAGEMENT, INC.
303 SWANSON DRIVE
LAWRENCEVILLE, GA 30043
Greg Bennett, P.E.
770-962-1387

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and Drawings and modifies the original bidding documents dated June 2024.

The following items of the Contract Documents are modified as part of this Addendum:

Clarifications/Questions:

1. What fittings are to be used at the locations where existing check valves will be removed and new check valves installed at each service line connection?
   EMI Response: All fittings shall be bronze fittings by Ford, Mueller, or approved equal, conforming to AWWA C800, with pack-joint ends where connections to the existing service lines are made. Refer to the "Plans" section below for more information.

2. Does the city know if there are valves where laterals tie into mainline?
   EMI Response: The plans from the original low pressure sewer system installation in 1988 include a detail showing a corporation stop and check valve on each service line where each service lateral connects to the main forcemain. The City is not aware if the corporation stops were installed as shown or if they are operational if present. The plans from the original 1988 installation and plans from a 2000 improvements project have been attached for reference. The contractor is to be aware, as stated on the project plans, that the locations of the existing forcemain and service lines are approximate and are to be located prior to construction. The contractor shall include the cost of anticipated exploration and location services in their bid, as outlined in Part 3.01 of the Measurement and Payment, Section 01025, of the project specifications.

3. Does city have a storage area for pumps, control panels etc.?
   EMI Response: The City has multiple areas where materials can be stored during construction. The specific location will be determined at the preconstruction conference.

Plans

- *Plan Sheets SS1 and SS2 have been revised as follows. See attached revised plan sheet. (revisions are shown with revision clouds)*

    - ***A note has been added prohibiting the discharge of sewage onto the ground or into a stream of body of water.***

- *Plan Sheet D1-1 has been revised as follows. See attached revised plan sheet. (revisions are shown with revision clouds)*

    - ***A note has been added to detail FM-1 detailing the types of fittings to be used for the service line connections.***

END OF ADDENDUM NO. 1

Z:\PROJECTS\13\13059-Hoschton-Panther Court Swr\Design Stage\DS18-Specifications\Contract 1 - Grinder Station Replacement\Working Files\Addendum\AddendumNo 1 07-10-24.doc

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.

LEGEND

EXISTING GRINDER PUMP STATION	WW	APPROXIMATE LOCATION 6" Ø PVC WATERLINE	W
EXISTING SERVICE LINE VALVE BOX	VB	APPROXIMATE LOCATION EX. 1-1/4" FORCEMAIN SERVICE LINE	FM
APPROXIMATE LOCATION EX. LOW PRESSURE FORCEMAIN	FM	PROPOSED VALVE BOX ON EX. SERVICE FORCEMAIN SEE SHEET D1-1 FOR DETAILS	NEW VB

1 NOTE:
UNDER NO CIRCUMSTANCE SHALL THE DISCHARGE OF WASTEWATER ONTO THE GROUND OR INTO A STREAM OR OTHER BODY OF WATER BE ALLOWED.

NOTE:
LOCATIONS AND SIZES OF LOW PRESSURE FORCEMAIN, FORCEMAIN SERVICE LINES, AND WATERLINE ARE ALL APPROXIMATE. CONTRACTOR SHALL LOCATE AND CONFIRM SIZES, AS NEEDED, PRIOR TO CONSTRUCTION TO ENSURE NO CONFLICTS EXIST.

NOTE:
ENTRY INTO EACH HOUSEHOLD WILL BE NECESSARY IN ORDER TO SHUT OF POWER TO THE INDIVIDUAL GRINDER PUMP STATIONS. CONTRACTOR SHALL COORDINATE ENTRY INTO HOMES WITH THE CITY OF HOSCHTON AND EACH INDIVIDUAL HOME OWNER. CARE SHOULD BE TAKEN INSIDE EACH HOME, AND NO DAMAGE OR OTHER DISTURBANCE IS ALLOWED INSIDE EACH HOME.

INSTALL NEW VALVE BOX WITH CHECK VALVE ASSEMBLY INSTALLED ON EX. SERVICE FORCEMAIN VIA CUT-IN. INSTALL MAX. 3' FROM LATERAL CONNECTION TO MAIN (TYP) — FM-1, D1-1

EXISTING VALVE BOX ABANDONMENT (TYP.) REMOVE AND DISPOSE OF EXISTING CHECK VALVE, BALL VALVE, AND VALVE BOX. RECONNECT SERVICE LINE WITH APPROPRIATE LENGTH OF SCH. 40 PIPE.

SEPTIC ACCESS LID (TYPICAL)

MATCHLINE BOT STA. 4+00

MATCHLINE TOP STA. 4+00

PANTHER CT - 50' R/W

6' WOOD FENCE

4' CHAIN LINK

ROCK WALL

25' STATE WATERS BUFFER

GRINDER PUMP STATION NOTES:

1. THERE ARE 30 TOTAL GRINDER PUMP STATIONS IN THE PANTHER COURT AREA. THE FOLLOWING WORK SHALL BE COMPLETED AT ALL STATIONS:
   - A. REPLACE EXISITNG GRINDER PUMP ASSEMBLY WITH NEW E/ONE GRINDER PUMP, INCLUDING DISCHARGE HOSE AND SUPPLY CABLE FROM PUMP TO CONTROL PANEL.
   - B. REMOVE AND REPLACE CONDUIT FROM FIBERGLASS TANK TO CONTROL PANEL WITH NEW 1" DIA. PVC CONDUIT. ALL CONDUIT SHALL BE BURIED A MIN. 12" AND CONUIT CONNECTION AT TANK SHALL BE SUFFICIENTY BURIED TO PROTECT THE CONNECTION.
   - C. REPLACE ALARM PANEL WITH NEW NEMA 4X-RATE CORROSION PROOF THERMOPLASTIC SIMPLEX ALARM PANEL.
   - D. INSTALL NW NON-METALLIC ENCLOSURE WITH NEW DISCONNECT AND SURGE PROTECTOR. SEE DETAIL ON SHEET G3-1.
   - E. RETHREAD ALL BOLT HOLES IN ALL FIBERGLASS LIDS/TANKS AND INSTALL NEW SS BOLTS SO THAT ALL LIDS BOLT DOWN AND CREATE AN AIRTIGHT SEAL.
   - F. REPLACE 2" MUSHROOM VENT ASSEMBLY WITH NEW. IF NO VENT EXISTS, DRILL APPROPRIATELY SIZED HOLE AND INSTALL NEW ASSEMBLY. ALL NEW BOLTS TO BE STAINLESS STEEL.
   - G. SEE SHEET D1 FOR GRINDER STATION AND ALARM PANEL DETAILS.
   - H. CONTRACTOR SHALL COORDINATE WITH CITY AND ENGINEER TO DETERMINE WHICH COMPONENTS SHALL BE DELIVERED TO THE CITY WASTEWATER PLANT AND/OR REBUILT BY THE MANUFACTURER FOR THE CITY FOR FUTURE USE.
   - I. ALL OTHER COMPONENTS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE FOLLOWING WORK SHALL BE COMPLETED AT THE LOCATIONS SHOWN ON THE TABLE ON SHEET G3-1 AT EACH INDIVIDUAL RESIDENCE. THE STREET NUMBERS SHOWN MATCH THE ADDRESS NUMBER AND THE LARGE NUMBER SHOWN ON THE PLANS AT EACH PROPERTY:
   - A. INSTALL A NEW CHECK VALVE/BALL VALVE ASSEMBLY ON THE EXISITNG 1¼" SERVICE FORCEMAIN IN A NEW METER BOX. SEE DETAIL FM-1 ON SHEET D1-1. VALVE ASSEMBLY TO BE LOCATED NO MORE THAN 3 FEET FROM SERVICE LINE CONNECTION TO MAIN FOR EACH RESIDENCE. CONTRACTOR TO PROVIDE ALL NECESSARY FITTINGS TO INSTALL ASSEMBLY.
   - B. REINSTALL GRAVITY SEWER LATERAL: REMOVE EXISTING GRAVITY SEWER LATERAL AND GROMMET FROM FIBERGLASS TANK, CLEAN BOTH SIDE OF TANK AROUND EXISTING HOLE, REMOVE ALL ROOTS FROM TANK INTERIOR, INSTALL FIBERGLASS BOLT ON PATCH AS SHOWN ON THE "FIBERGLASS BOLT ON PATCH FOR SEWER LATERAL" DETAIL ON SHEET D1.1. ONCE PATCH IS INSTALLED, DRILL NEW HOLE IN PATCH AND INSTALL A NEW EPDM INLET GROMMET APPROPRIATELY SIZED TO CREATE A WATERTIGHT SEAL AROUND THE GRAVITY SEWER LATERAL. REINSTALL GRAVITY SEWER LATERAL IN NEW HOLE. LATERAL SHALL NOT PENETRATE FIBERGLASS TANK MORE THAN 3 INCHES.

REVISION

DATE	NO	DESCRIPTION
5/31/2024	1	RELEASED FOR BID
7/10/2024	2	REVISED PER ADDENDUM NO. 1

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

PANTHER COURT AREA SANITARY SEWER SYSTEM IMPROVEMENTS
FOR THE
CITY OF HOSCHTON
JACKSON COUNTY, GA

SANITARY SEWER PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
GKB	DCS	GKB

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 33581 05/31/2024 GREGORY K. BENNETT

STAMP

3/1/2024 DATE
13059 JOB NUMBER
z:\projects FILE LOCATION

SS1

SHEET

PATH & FILE: Z:\PROJECTS\13151\13059-Hoschton-Panther Court Swr\Design Stage\13059 Base

LEGEND

EXISTING GRINDER PUMP STATION	WW	APPROXIMATE LOCATION 6" Ø PVC WATERLINE	——w——
EXISTING SERVICE LINE VALVE BOX	VB	APPROXIMATE LOCATION EX. 1-1/4" FORCEMAIN SERVICE LINE	- - - - -
APPROXIMATE LOCATION EX. LOW PRESSURE FORCEMAIN	——fm——	PROPOSED VALVE BOX ON EX. SERVICE FORCEMAIN SEE SHEET D1-1 FOR DETAILS	NEW VB

GRAPHIC SCALE

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(IN FEET)
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REMOVE AND DISPOSE OF EXISTING CHECK VALVE, BALL VALVE, AND VALVE BOX. RECONNECT SERVICE LINE WITH APPROPRIATE LENGTH OF SCH. 40 PIPE.

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W. JEFFERSON STREET
70' R/W

PANTHER CT - 50' R/W

MATCHLINE BOT STA. 106+00

MATCHLINE TOP STA. 106+00

MEADOW VISTA LN

#643 #621 #599 #592 #590 #515 #21 #501 #477 #476A #476B #459 #437 #417

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EXPOSE BOTH ENDS OF CASING AND INSTALL CONCRETE ANCHORS (SEE DETAIL S-27, SHEET D2-1)

REPLACE ±50 L.F. OF 1 ¼" SERVICE LINE WITH 1 ¼" DR11 HDPE INSTALLED VIA HORIZONTAL DRILL UNDER CREEK WITH A MIN. 3' OF COVER UNDER CREEK. CONNECT EX. SERVICE LINE ON BOTH ENDS WITH ALL NECESSARY FITTINGS.

FULL HEIGHT MANHOLE REHABILITATION IN ACCORDANCE WITH SECTION 02604 OF THE PROJECT SPECIFICATIONS

NO	DESCRIPTION	DATE
1	RELEASED FOR BID	5/31/2024
2	REVISED PER ADDENDUM NO. 1	7/10/2024

REVISION

ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.emincbiz

PANTHER COURT AREA SANITARY SEWER SYSTEM IMPROVEMENTS
FOR THE
CITY OF HOSCHTON
JACKSON COUNTY, GA

SANITARY SEWER PLAN

SHEET TITLE

DESIGN BY: CMB | DRAWN BY: DCS | CHECKED BY: CMB

GEORGIA REGISTERED NO. 35581 PROFESSIONAL 05/31/2024 ENGINEER GREGORY K. BENNETT

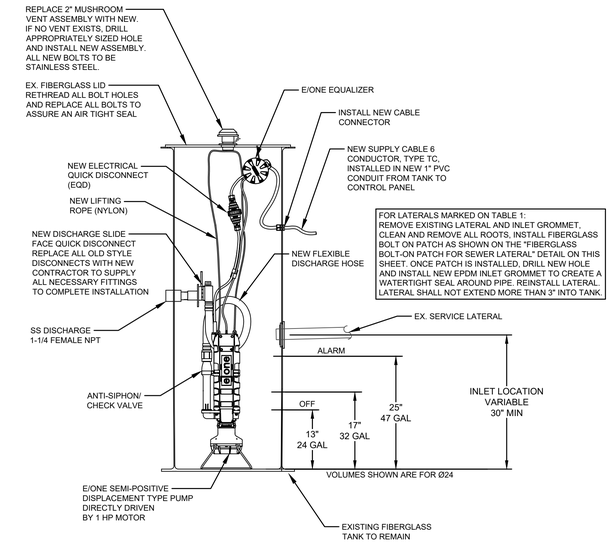
STAMP

DATE: 3/1/2024
JOB NUMBER: 13059
FILE LOCATION: z:\projects

SHEET SS2

PATH & FILE: Z:\PROJECTS\13059-Hoschton-Panther Court Swr\Design Stage\13059.lbsm

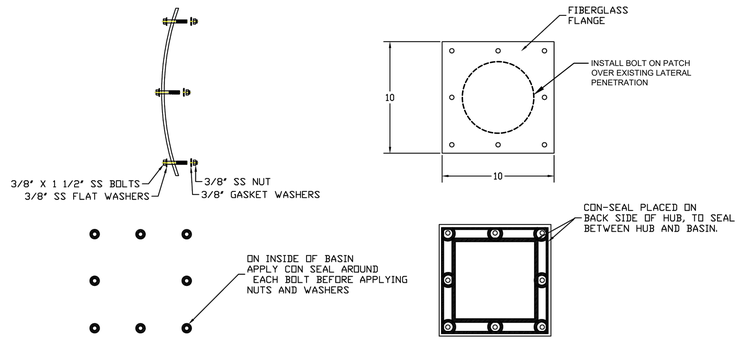
STATION TO BE USED WITH
(1) SENTRY SIMPLEX PANEL
(SEE DETAIL SHEET D1)



FOR LATERALS MARKED ON TABLE 1:
REMOVE EXISTING LATERAL AND INLET GROMMET, CLEAN AND REMOVE ALL ROOTS, INSTALL FIBERGLASS BOLT ON PATCH AS SHOWN ON THE "FIBERGLASS BOLT-ON PATCH FOR SEWER LATERAL" DETAIL ON THIS SHEET. ONCE PATCH IS INSTALLED, DRILL NEW HOLE AND INSTALL NEW EPDM INLET GROMMET TO CREATE A WATERTIGHT SEAL AROUND PIPE. REINSTALL LATERAL. LATERAL SHALL NOT EXTEND MORE THAN 3" INTO TANK.

GRINDER PUMP REPLACEMENT DETAIL
N.T.S.

NOTE: MEASUREMENTS OF BASINS ARE ALL I.D., IF NOT OTHERWISE SPECIFIED



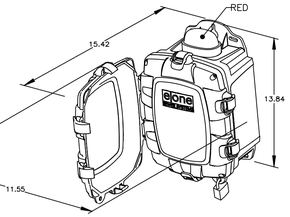
FIBERGLASS BOLT ON PATCH FOR (_24_)Ø BASIN

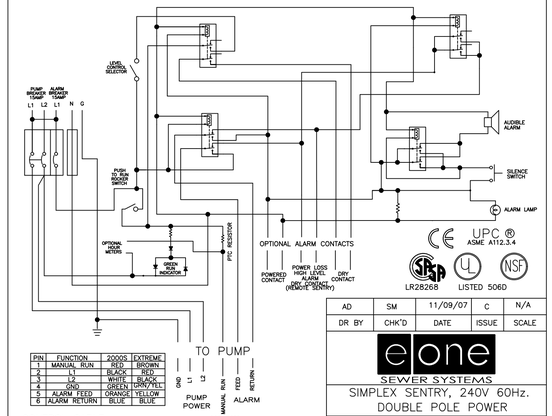
TO CUSTOMER:
EXAMINE THIS DRAWING CAREFULLY. VERIFY ALL DIMENSIONS, LOCATIONS, AND ELEVATIONS FOR ACCURACY. SIGN AND DATE AT LINE. ANY MODIFICATIONS OR CHANGES TO THIS DRAWING OR FINISHED PRODUCT, AFTER IT HAS BEEN SIGNED, MAY RESULT IN ADDITIONAL CHARGES AND SHIPPING DELAYS. NO JOB WILL BE STARTED UNTIL CONFIRMATION THROUGH SIGNATURE.

DRAWN FOR: — — — — —	PO# –––	DISCONNECTS: –––	SHEET 1 OF 1 Revision 0
	QUOTE # –––––	PUMPS: –––	"THE BEST AROUND UNDERGROUND"
JOB REFERENCE / Notes: FIBERGLASS BOLT ON PATCH FOR SEWER LATERAL	BASIN DESCRIPTION: –––	DRAWN BY: B.SNYDER DATE: 2/28/13	PH: (574)-936-6022 FX: (574)-936-5811 WWW.AKINDUSTRIES.COM
	COVER DESCRIPTION: –––	CHECKED BY: DATE CHECKED:	

SIMPLEX SENTRY

REDUNDANT RUN (HIGH LEVEL)
EXTERNAL VISUAL & AUDIBLE ALARM
EXTERNAL LATCHING MANUAL SILENCE
MANUAL RUN
PUMP RUN INDICATOR
CONFORMAL COATED CIRCUIT BOARD
PADLOCK
NEMA 4X ENCLOSURE ASSEMBLY
CORROSION PROOF THERMOPLASTIC POLYESTER APPROVED BY UL FOR ELECTRICAL CONTROL ENCLOSURE





PIN	FUNCTION	2000S	EXTREME
1	MANUAL RUN	RED	BROWN
2	L1	BLACK	RED
3	L2	WHITE	BLACK
4	GND	GREEN	GRAY/YEL
5	ALARM FEED	ORANGE	YELLOW
6	ALARM RETURN	BLUE	BLUE

CONTROL CABLE:
TYPE TC: DIRECT BURIAL, 12AWG, SIX CONDUCTOR

UPC ® ASME A112.3.4
LR28268 LISTED 506D

AD	SM	11/09/07	C	N/A
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS
SIMPLEX SENTRY, 240V 60Hz. DOUBLE POLE POWER
LM000326

CONTROL PANEL DETAIL
N.T.S.

NO	DATE	DESCRIPTION
1	5/31/2024	RELEASED FOR BID
2	7/10/2024	REVISED PER ADDENDUM NO. 1

REVISION

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PANTHER COURT AREA SANITARY SEWER SYSTEM IMPROVEMENTS
FOR THE
CITY OF HOSCHTON
JACKSON COUNTY, GA

CONSTRUCTION DETAILS-CONTRACT 1

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
GKB	DCS	GKB

GEORGIA REGISTERED NO. 35581 PROFESSIONAL 05/31/2024 ENGINEER GREGORY K. BENNETT

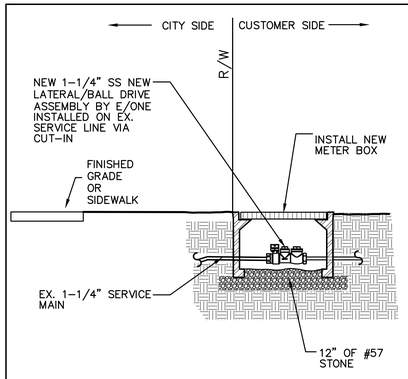
STAMP

3/1/2024 DATE
13059 JOB NUMBER
z:\projects FILE LOCATION

SHEET D1-1

PATH & FILE: Z:\PROJECTS\13059-Hoschton-Panther Court Swr\Design Stage\13059.Stamp

CITY SIDE — CUSTOMER SIDE



NOTES:

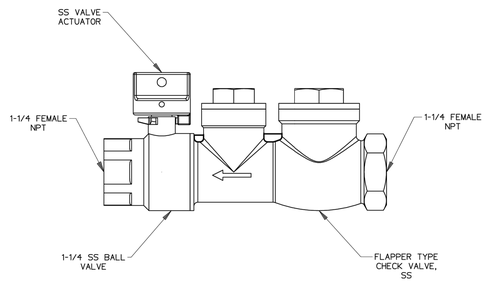
1. TOP OF VALVE ASSEMBLY MUST BE A MINIMUM OF 12" FROM THE TOP OF THE METER BOX.
2. METER BOX:
   A. BOX SHALL BE MODEL DFW1200IT-12-BODY BY DFW PLASTICS, INC.
   B. DIMENSIONS SHALL BE 21-13/16"L X 16-9/16"W X 12" DEEP.
   C. LID SHALL BE MODEL DFW1200-1-LID BY DFW PLASTICS, INC.
   D. BOX SHALL BE SET BELOW GRADE WITH TOP FLUSH WITH GROUND SURFACE.
3. ALL FITTINGS SHALL BE BRONZE FITTINGS BY FORD, MUELLER, OR APPROVED EQUAL, CONFORMING TO AWWA C800, WITH PACK-JOINT ENDS WHERE CONNECTIONS TO THE EXISTING SERVICE LINES ARE MADE

1 EM 7-31-07

CITY OF HOSCHTON WATER & SEWER DEPARTMENTS

JOB TITLE	SHEET TITLE	DRN. BY: EMI	REV. NO.	BY	DATE
STANDARD DETAIL	**SERVICE LATERAL CHECK VALVE**	CKD BY:			
		APPD. BY:			
		DATE: MAY 2024			
	DETAIL No. FM-1	FILE No. 13051\FM-1.dwg	SCALE: N.T.S.		

STAINLESS STEEL LATERAL ASSEMBLY NO FITTINGS



PART IS A BALL VALVE CURB STOP WITH FEMALE PIPE THREADS, VALVE POSITION STOPS (OPEN/CLOSED), AND INTEGRAL CHECK VALVE
MATERIAL: STAINLESS STEEL

PRESSURE RATING: 235 PSI

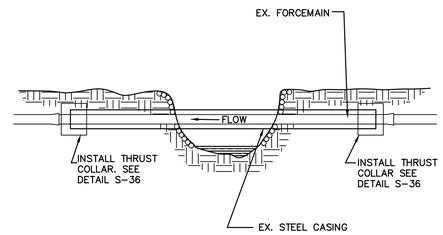
TO ORDER SS LATERAL, NO FITTINGS USE PART NUMBER NB0184P01

NOTES:

1. FOR SS FITTING INTO SS THREAD, USE PIPE DOPE OR TEFLON TAPE, NOT BOTH
2. FOR PLASTIC FITTINGS INTO SS THREAD, USE BOTH PIPE DOPE AND 2 LAYERS OF TEFLON TAPE

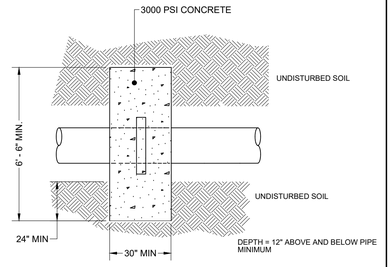
SGS	DN	09/20/11	A	3/16
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS
STAINLESS STEEL LATERAL ASSEMBLY NO FITTINGS
NA0330P05



NOTE:
INSTALL COLLAR SO THAT CASING AND CARRIER PIPE ARE RESTRAINED BY CONCRETE.

JOB TITLE	SHEET TITLE	DRN. BY:	REV. NO.	BY	DATE
STANDARD DRAWING	NON-PIER AERIAL D.I.P. SEWER LINE	CKD BY:	A	EMI	7-31-07
		APPD. BY:			
		DATE: MAR. 2002			
	DETAIL No. S-27	FILE No. 05062\S-27	SCALE: N.T.S.		



PLAN VIEW

CONCRETE ANCHOR
NTS

NOTE:
DIMENSIONS SHOWN ARE MINIMUM ACCEPTABLE DIMENSIONS. DESIGN ENGINEER SHALL PROVIDE A THRUST COLLAR DETAIL APPROPRIATE FOR SPECIFIC PROJECT CONDITIONS ON THE PLANS.

JOB TITLE	SHEET TITLE	DRN. BY:	REV. NO.	BY	DATE
STANDARD DRAWING	THRUST COLLAR	CKD BY:	A	EMI	7-31-07
		APPD. BY:			
		DATE: MAR. 2002			
	DETAIL No. S-36	FILE No. 05062\S-36	SCALE: N.T.S.		

AP 48413A3

LEGEND

- ——— •GUY WIRE
- I.P.F.O.=IRON PIN FOUND
- I.P.S.●=IRON PIN SET (½" REBAR)
- H.T.P. •HOLLOW TOP PIPE
- T.B.M. •BENCH MARK
- L.L.L. •LAND LOT LINE
- P.L. •PROPERTY LINE
- Ac. •ACRE
- INV. •INVERT ELEVATION
- D.I. •DROP INLET
- C.B. •CATCH BASIN
- R/W •RIGHT-OF-WAY
- J.B. •JUNCTION BOX
- H.W. •HEADWALL
- EL. •ELEVATION
- B.L. •BUILDING LINE
- ℄ •CENTER LINE
- T.H. •TEST HOLE
- R •RADIUS
- T.L. •TRAVERSE LINE
- D.E. •DRAINAGE EASEMENT
- S.E. •SEWER EASEMENT
- C.E. •CONSTRUCTION EASEMENT
- T.C. •TOP OF CURB ELEVATION
- B.C. •BOTTOM OF CURB ELEVATION
- W.V. •WATER VALVE
- G.V. •GAS VALVE
- M.H.O •SANITARY MANHOLE
- V.C.P. •VITRIFIED CLAY PIPE
- C.M.P. •CORRUGATED METAL PIPE
- R.C.P. •REINFORCED CONCRETE PIPE
- ——→ •DIRECTION OF FLOW
- ——— •CREEK
- P.P.● •POWER POLE
- F.H.Ø •FIRE HYDRANT
- —x— •FENCE
- C.M.F. •CONCRETE MONUMENT FOUND
- -S— •SANITARY SEWER LINE

NOTE
ALL TAPS ON WATER LINE TO BE MADE BY THE CITY OF HOSCHTON.

NOW OR FORMERLY
JEWEL C. GOOCH

STREAM
EXISTING 18"ϕ CMP
EXISTING 2"x 30"ϕ RBP
EXTENSION TO EXISTING 6"ϕ WATERMAIN BY CITY OF HOSCHTON
PROPERTY LINE IS ℄ CREEK
MAGNETIC
EXISTING 24"ϕ CMP
(70' R/W)
℄ DITCH
6"ϕ OFF 6" TEE WATER VALVE (GATE) & STUB OUT BY CITY OF HOSCHTON
START POINT FOR JEWEL C. GOOCH DEV.
℄ INTERSECTION JEFFERSON STREET STA. 0+00.0
6"ϕ CL. 900 PVC WATERMAIN
2"ϕ CL. 900 PVC WATERMAIN
BLOCK "A"
PANTHER COURT
50' R/W
22' PAVEMENT
PC STA. 1+98.00
PT STA. 5+05.62
PC STA. 7+30.62
PC STA. 10+14.16
RP STA. 10+39.15
JEFFERSON STREET (18' PAVEMENT)
TREE TO BE RETAINED
GEORGIA POWER EASEMENT
DRAW
NOW OR FORMERLY
STEVE PIRKLE
88-653
NOW OR FORMERLY
JEWEL C. GOOCH

1 — 0.70 Ac.
2 — 0.75 Ac.
3 — 1.02 Ac.
4 — 1.13 Ac.
5 — 0.94 Ac.
6 — 1.17 Ac.
7 — 1.39 Ac.
6 — 0.86 Ac.
9 — 0.84 Ac.
10 — 0.84 Ac.
11 — 1.09 Ac.
12 — 1.04 Ac.
13 — 1.47 Ac.

VICINITY MAP

TYPICAL ROADWAY SECTION
N.T.S.

CURVE	ARC	DELTA	RADIUS	DEGREE OF CURVE	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	168.49	20°01'40"	482.02	11°53'12"	167.63	N 67°52'25" E	85.11
C2	201.36	24°14'06"	476.04	12°02'09"	199.86	S 89°59'42" E	102.21
C3	281.07	2°35'11"	6226.19	0°55'13"	281.05	S 79°10'15" E	140.56
C4	86.98	0°48'01"	6226.19	0°55'13"	86.98	S 80°51'42" E	43.49
C5	307.62	13°55'58"	1265.00	4°31'46"	306.86	S 3°17'12" W	154.57
C6	283.53	31°21'39"	518.00	11°03'39"	280.00	S 19°21'36" E	145.41
C7	150.77	6°57'59"	1240.00	4°37'14"	150.68	S 6°46'12" W	75.48
C8	150.77	6°57'59"	1240.00	4°37'14"	150.68	S 0°11'47" E	75.48
C9	75.39	8°45'42"	493.00	11°37'19"	75.32	S 8°03'38" E	37.77
C10	194.45	22°35'56"	493.00	11°37'19"	193.19	S 23°44'27" E	98.51
C11	52.36	59°59'51"	50.00	114°35'30"	50.00	S 5°02'30" E	28.87
C12	76.85	88°03'30"	50.00	124°35'30"	69.50	S 68°59'11" W	48.33
C13	92.65	106°09'50"	50.00	114°35'30"	79.95	N 13°54'09" W	66.55
C14	29.20	66°55'11"	25.00	229°10'59"	27.57	N 5°43'11" E	16.52
C15	139.02	14°40'10"	543.00	10°33'06"	138.65	N 20°24'20" W	69.89
C16	89.00	9°23'28"	543.00	10°33'06"	88.90	N 8°22'31" W	44.60
C17	55.57	2°28'05"	1290.00	4°26'30"	55.56	N 2°26'44" W	27.79
C18	154.03	6°50'28"	1290.00	4°26'30"	153.94	N 2°12'32" E	77.11
C19	104.10	4°37'25"	1290.00	4°26'30"	104.07	N 7°56'29" E	52.08
C20	24.81	2°59'11"	476.04	12°02'09"	24.81	N 79°22'50" E	12.41
C21	176.54	21°14'55"	476.04	12°02'09"	175.53	S 88°30'07" E	89.30
C22	14.13	1°42'01"	476.04	12°02'09"	14.13	S 77°56'33" E	7.06
C23	216.92	1°59'46"	6226.19	0°55'13"	216.91	S 79°27'57" E	108.47

LINE	BEARING	DISTANCE
L1	N 70°11'47" E	100.01
L2	N 64°51'26" E	92.92
L3	N 9°38'19" E	94.32
L4	N 31°17'23" W	42.19
L5	N 36°34'33" W	83.79
L6	N 18°08'04" W	47.81
L7	N 56°09'55" E	32.45
L8	N 21°37'55" E	91.26
L9	N 7°12'38" E	92.11
L10	N 30°04'38" E	33.34
L11	N 6°44'32" W	57.41
L12	N 52°29'55" W	96.13
L13	N 23°45'15" W	106.00
L14	N 21°03'07" W	58.80
L15	S 21°03'07" E	28.92
L16	S 21°03'07" E	29.88
L17	N 21°37'55" W	35.21

PANTHER CREEK ESTATES
PROTECTIVE COVENANTS

Lots shown on this plat are subject to the following restrictions which are covenants running with the land and may be enforced by the City, the developer or any owner of any lot within the subdivision and shall remain in force and effect until the _____ day of _____ 2005.

1. Lots shown shall be used for single family residence purposes only.
2. No lot shall be subdivided or no more than one house erected on any one lot.
3. No house shall be nearer a fronting street than building line shown on plat nor nearer than 15 feet to any side lot line, maintaining 30 feet between adjacent structures.
4. No building shall be erected on any lot to be used as a school, church or kindergarten.
5. No temporary house, shack, tent or trailer shall be erected or occupied on any lot as a residence, school, church or kindergarten.
6. No residence shall be erected on any lot to have less than 1,300 square feet and a double car garage.
7. Residential construction plans must be submitted to and approved by the developer.
8. Home builder shall be held responsible for implementation of and conformance with county soil erosion control ordinance.
9. Home builder shall be required to maintain cleanliness of building site; removing all debris and construction materials after completion of construction. He shall be required to remove transported soils from street gutters and catch basins abutting developed lot and he shall seed all disturbed earth with a permanent vegetive covering.
10. 10' interior and 15' perimeter drainage and utility easements shall exist for all lots though not actually shown for all lots.
11. Ditches are to be constructed with approved ditch checks which are to be maintained at the residences expense.
12. No Satellite receiving dishes or antennas are to be constructed or placed in the subdivision except in the rear yard of a completed residence.
13. No vehicle shall be parked on any lot that does not have a current years registration.
14. All drainage ditches and easements are to be maintained by the county at the homeowners expense.
15. NO MOBILE HOME SHALL BE ALLOWED ON ANY LOT.
16. No secondary structures of any kind can be erected in the front yard of any lot.
17. Fence construction within Georgia Power Easement require a 16 foot gate on each side (Lots 9, 10, 11, & 13 only)

The above protective covenants have been established this _____ day of _____, 1988.

Developer _____ Date _____

GENERAL NOTES

1. ZONING OF PROPERTY = R1
2. TOTAL AREA = 14.51 Ac
3. ROAD AREA = 1.29 Ac
4. LOT AREA = 13.22 Ac
5. DENSITY LOTS/Ac = 0.98
6. AVERAGE LOT SIZE = 1.02 Ac
7. PROPOSED USE = SINGLE FAMILY RESIDENCE
8. FLOOD PLAIN HAZARD LINE FROM FIA FLOOD HAZARD BOUNDARY MAP NO. H01, APRIL, 1975
9. SOILS DATA FROM SHEET NUMBER 52 USDA SOIL SURVEY OF BARROW, HALL AND JACKSON COUNTIES.
10. SOURCE OF TOPOGRAPHICAL SURVEYING IS MEAN SEA LEVEL. BENCHMARK U.S.G.S. MONUMENT AT CITY HALL, ELEV. 918.00
11. BOUNDARY AND TOPOGRAPHICAL SURVEYING BY SEC, APRIL, 1988.

THIS PRELIMINARY PLAT WAS GIVEN PRELIMINARY APPROVAL BY THE JACKSON COUNTY PLANNING COMMISSION ON _____, 19____.

THIS PRELIMINARY APPROVAL DOES NOT CONSTITUTE APPROVAL OF A FINAL PLAT. THIS CERTIFICATE OF PRELIMINARY APPROVAL SHALL EXPIRE AND BE NULL AND VOID ONE (ONE YEAR FROM PRELIMINARY APPROVAL):

DATE _____

SECRETARY
JACKSON COUNTY PLANNING COMMISSION

SCALE IN FEET
50 0 50 100 150
1" = 50'

OWNER
JEWELL C. GOOCH
P.O. BOX 545
LILBURN, GEORGIA 30247
(404)921-6207

GEORGIA REGISTERED No. 1710 PROFESSIONAL LAND SURVEYOR BEN D. TRAIL

IN MY OPINION, THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW.

GEORGIA REGISTERED No. 6826 PROFESSIONAL ENGINEER EARL EDWARD DUCKETT, JR.

ENGINEERS & SOUTHEAST CONSULTANTS, INC.
SURVEYORS ONE RIVERCLIFF PLACE
4978 HWY. 78
LILBURN, GEORGIA. 30247
(404)979-8191

NOT FOR FINAL RECORDING

DES. BY: JL
DWG. BY: KD
CKD. BY: EED

REVISIONS

PANTHER CREEK ESTATES - PHASE I
PRELIMINARY PLAT

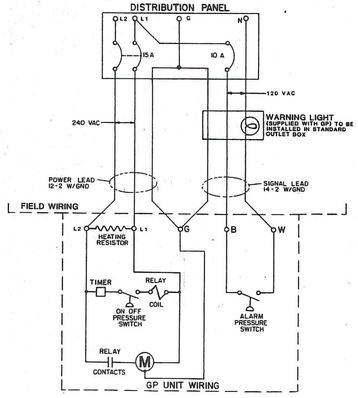
ROADWAY DATA
WATER NETWORK

CITY OF HOSCHTON
G.M.D. 1407, JACKSON COUNTY, GEORGIA

SOUTHEAST CONSULTANTS INC

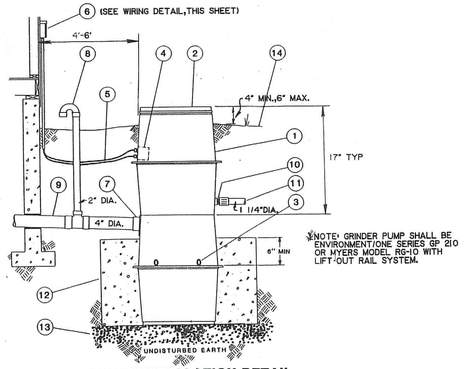
JOB NO. 88-04-017 | DATE: 4-18-88
FILE NO. | SCALE: 1" = 50'

AF 48413A8



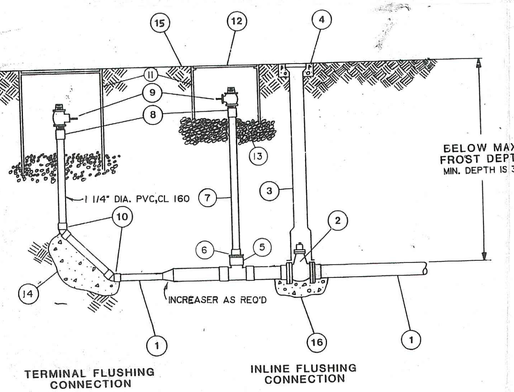
240 VOLT WIRING DETAILS

NOTE-USE ONLY APPROVED WIRING MATERIALS AND METHODS PER APPLICABLE NATIONAL ELECTRICAL CODES.



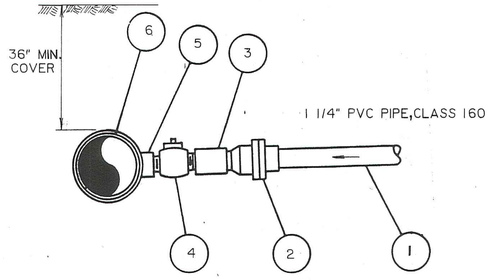
GRINDER PUMP INSTALLATION DETAIL

1. ENVIRONMENT ONE GRINDER PUMP TANK & ACCESSWAY - Fiberglass Reinforced Polyester (FRP).
2. ACCESSWAY COVER - FRP
3. LIFTING EYES - for lifting complete grinder pump.
4. ELECTRICAL JUNCTION BOX - leads from grinder pump terminate here. Electrician connects leads from disconnect box (item 6) thru 2 watertight connectors provided (for UF cable).
5. GRINDER PUMP POWER AND ALARM LEADS - Circuit to be run in accordance with applicable electrical codes in accordance with National Electric Code.
6. RAINPROOF (Nema 3R) ENCLOSURE - Equipped with circuit breakers and disconnect switch, located adjacent to grinder pump on side of home. Alarm light mounted directly to enclosure.
7. TANK INLET - 4" PVC Socket for solvent cementing DWV pipe.
8. TANK VENT - Tank must be vented thru inlet piping within 4' of tank, 2" PVC minimum.
9. GRAVITY SERVICE LINE - 4" DWV.
10. DISCHARGE OUTLET - 1 1/4" Male pipe thread.
11. GRINDER PUMP DISCHARGE LINE - 1 1/4" nominal pipe size.
12. CONCRETE ANCHOR - 900 (cu. ft.) lbs plus 300 (2 cu. ft.) lbs per foot of accessway. Ex. GP210 S6 w/17" accessway - 900 + 425 = 1325 lbs. (9 cu. ft.). Sleeve over inlet line is required if anchor is poured to a level above the inlet.
13. BEDDING MATERIAL - 6" Minimum, rounded aggregate (pea gravel).
14. FINISHED GRADE - Grade line to be 4" (6" max.) below top of accessway and slope away from accessway opening.



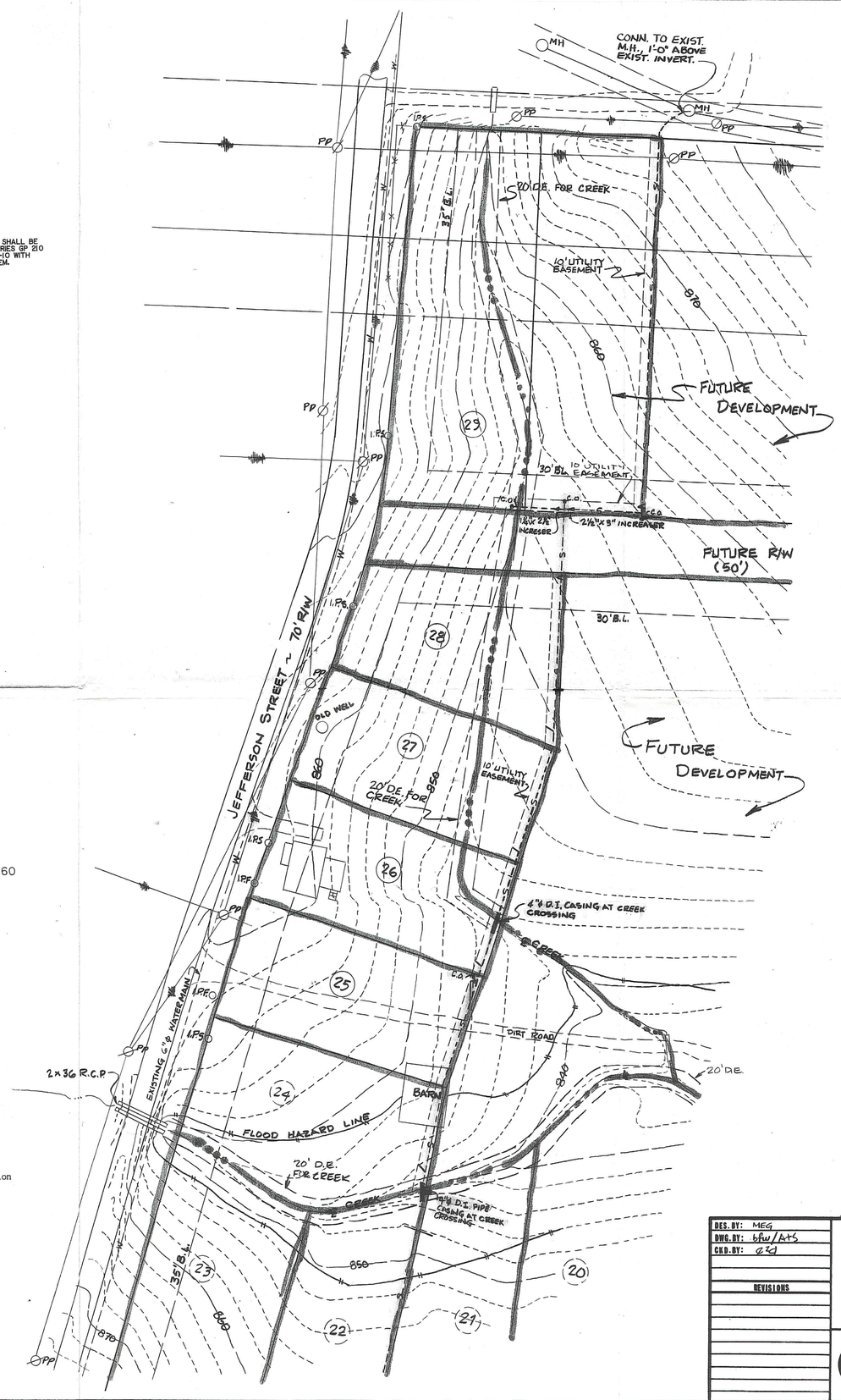
LOW PRESSURE SEWER SYSTEM INSTALLATION DETAILS

1. LOW PRESSURE SEWE SYSTEM (LPSS) MAIN.
2. GATE VALVE - fully ported, size of LPSS main.
3. VALVE BOX - length as required.
4. CONCRETE COLLAR.
5. TEE or SADDLE - size of LPSS main.
6. REDUCER - 2" x size of LPSS main.
7. 2" RISER
8. THREADED ADAPTER
9. 2" GATE VALVE - wrench operated.
10. ELBOW - 45
11. METER BOX - standard size, PVC or cast iron.
12. COVER - PVC or cast iron.
13. GRAVEL BEDDING - for box support and surface water leaching.
14. CONCRETE THRUST BLOCK
15. FINISHED GRADE



LOW PRESSURE SEWER SERVICE CONNECTION DETAIL

1. PIPE - 1 1/4" PVC (160 PSI minimum).
2. CHECK VALVE - 1 1/4" Fully Ported Swing Type.
3. ADAPTER 1 1/4" FPT X 1 1/4" Socket, PVC.
4. CORPORATION STOP - 1 1/4" MPT X MPT, Brass.
5. TEE or TAPPING SADDLE - 1 1/4" FPT X As Required for connection into low pressure main.
6. LOW PRESSURE MAIN, Size Varies.



GEORGIA REGISTERED No. 8889 PROFESSIONAL ENGINEER MACON E. GOOCH, III

DES. BY:	MEG
DWG. BY:	bfw/AAS
CKD. BY:	EEG
REVISIONS	

PANTHER CREEK ESTATES - PHASE I
PRELIMINARY PLAT

CONSTRUCTION DETAILS

CITY OF HOSCHTON
G.M.D. 1407, JACKSON COUNTY, GEORGIA

SOUTHEAST CONSULTANTS, INC.

JOB NO. 28-04-017	DATE: 9-19-88	SHEET 2 OF 6
FILE NO.	SCALE: 1"= 50'	

AF 48413AB

FUTURE DEVELOPMENT

℄ STREAM

18"ϕ CMP

20' D.E.

℄ CREEK

ROCK %

24"ϕ CMP

TOP OF BANK 824.25
INV. CREEK 819.20

RIPRAP ON CREEK

SWALE CUT TO SUIT SITE CONDITIONS

10' D.E. TO CREEK

SPILLWAY INV. 847.80

RIPRAP ON SLOPES

MAGNETIC

10' UTILITY & DRAINAGE EASMT

EXISTING ℄ & WATERMAIN

2x30"ϕ RCP

FLOOD HAZARD LINE

PARK

2" D.I. EASTING ℄ CREEK CROSSING

RIPRAP ON CREEK

2½"ϕ CL 160 PVC FORCEMAIN

FLOOD PLAIN HAZARD

10' DRAINAGE AND UTILITY EASEMENT

DITCH REGRADED TO SUIT SITE CONDITIONS

DITCH TO BE GRADED AWAY FROM VIEW TO CATER FOR EXISTING STREET SURFACE WATER RUNOFF

INV. 876.00

INV. 878.00

TYPICAL VALVE

6"ϕ CL 200 PVC WATERMAIN

2½"ϕ CL 160 FORCEMAIN

INV. 860.25

PANTHER COURT

50' R/W

22' PAVEMENT

TYPICAL SEWER CONNECTION

8"ϕ CL 160 FORCEMAIN

SPILLWAY INV. 820.75

10' UTILITY EASEMENT

GEORGIA POWER EASEMENT

JEFFERSON STREET

5' DITCH

2½"ϕ CL 160 PVC FORCEMAIN

10' UTILITY EASEMENT

(70' R/W)

22' PAVEMENT

30' B/L

35' B/L

40' B/L

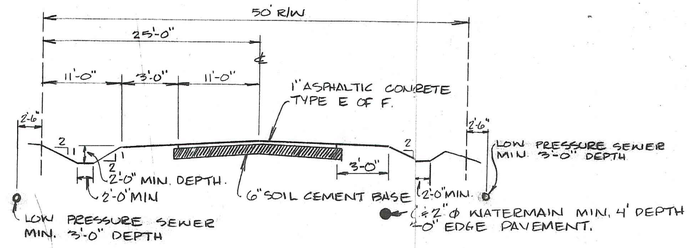
PUD 2

PUD 3

C.O.

SWALE

RIPRAP ON SLOPES



TYPICAL ROADWAY SECTION
N.T.S.

APPROVED
STATE OF GEORGIA
OCT 21 1988
WATER QUALITY CONTROL SECTION
ENVIRONMENTAL PROTECTION DIVISION
By John Jay McLeod, P.E.

PANTHER CREEK ESTATES
PROTECTIVE COVENANTS

Lots shown on this plat are subject to the following restrictions which are covenants running with the land and may be enforced by the City, the developer or any owner of any lot within the subdivision and shall remain in force and effect until the _____ day of _____ 2008.

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15. NO MOBILE HOME SHALL BE ALLOWED ON ANY LOT.
16. No secondary structures of any kind can be erected in the front yard of any lot.
17. Fence construction within Georgia Power Easement require a 16 foot gate on each side (Lots 9, 10, 11, & 13 only)

The above protective convenants have been established this _____ day of _____, 1988.

Developer _____ Date _____

NOTES

1. All lots to be served by small dia. low pressure sewers discharging to the City of Hoschton sanitary sewer system.
2. Flood plain from FIA Flood Hazard Boundary Map No. 401, April, 1975.
3. Soils data from sheet 52 USDA Soil Survey of Barrow Hall and Jackson Counties.
4. Maximum cut or fill slope is 2H:1V.
5. Minimum ground cover for pipes 1'-6".
6. Developer to clean out any accumalated silt in pipes at the end of the construction phase when all the disturbed areas are stabilitized.
7. See sheet no. 4 for horizontal and vertical geometrics.
8. Min. lot width at ℬ is 100', minimum lot size is 20,000 sq.ft.

GEORGIA
REGISTERED
No. 8889
PROFESSIONAL
ENGINEER
MACON E. GOODWYN

50 0 50 100 150
SCALE IN FEET
1" = 50'

DES. BY:	MEG
DWG. BY:	bw / ATS
CHK. BY:	e'd
REVISIONS	
1. @ ADDED PERK TEST LOCATIONS.	
2. REVISED LOT LAYOUT AND ADDED LOW PRESSURE SEWER.	

PANTHER CREEK ESTATES – PHASE I
PRELIMINARY PLAT

CONSTRUCTION DETAILS

CITY OF HOSCHTON
G.M.D. 1407, JACKSON COUNTY, GEORGIA

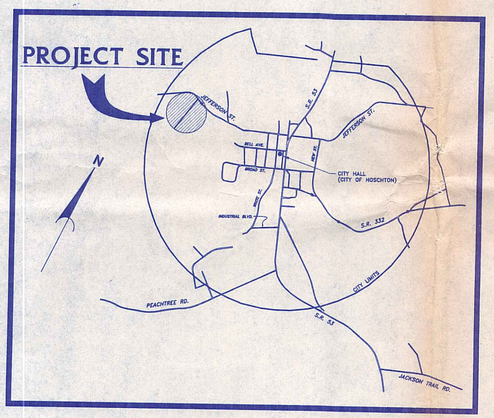
SOUTHEAST CONSULTANTS, INC.

JOB NO. 88-04-017	DATE: 4-18-88	SHEET 1 OF 6
FILE NO.	SCALE: 1" = 50'	

SANITARY SEWER IMPROVEMENTS
PANTHER CREEK SUBDIVISION
CITY OF HOSCHTON, GA

NOVEMBER 2000

LOCATION MAP



CITY OF HOSCHTON

BILLY HOLDER – MAYOR

CITY COUNCIL:

ROSEMARY BAGWELL
GENORIA BRIDGEMAN
JAN BUCHANAN
ROSLYN CLARK
JOYCE PEPPERS
PAUL TURMAN

CINDY EDGE – CITY CLERK

SHEET INDEX

NOT RELEASED FOR CONSTRUCTION
PRINT DATE: NOVEMBER 2000

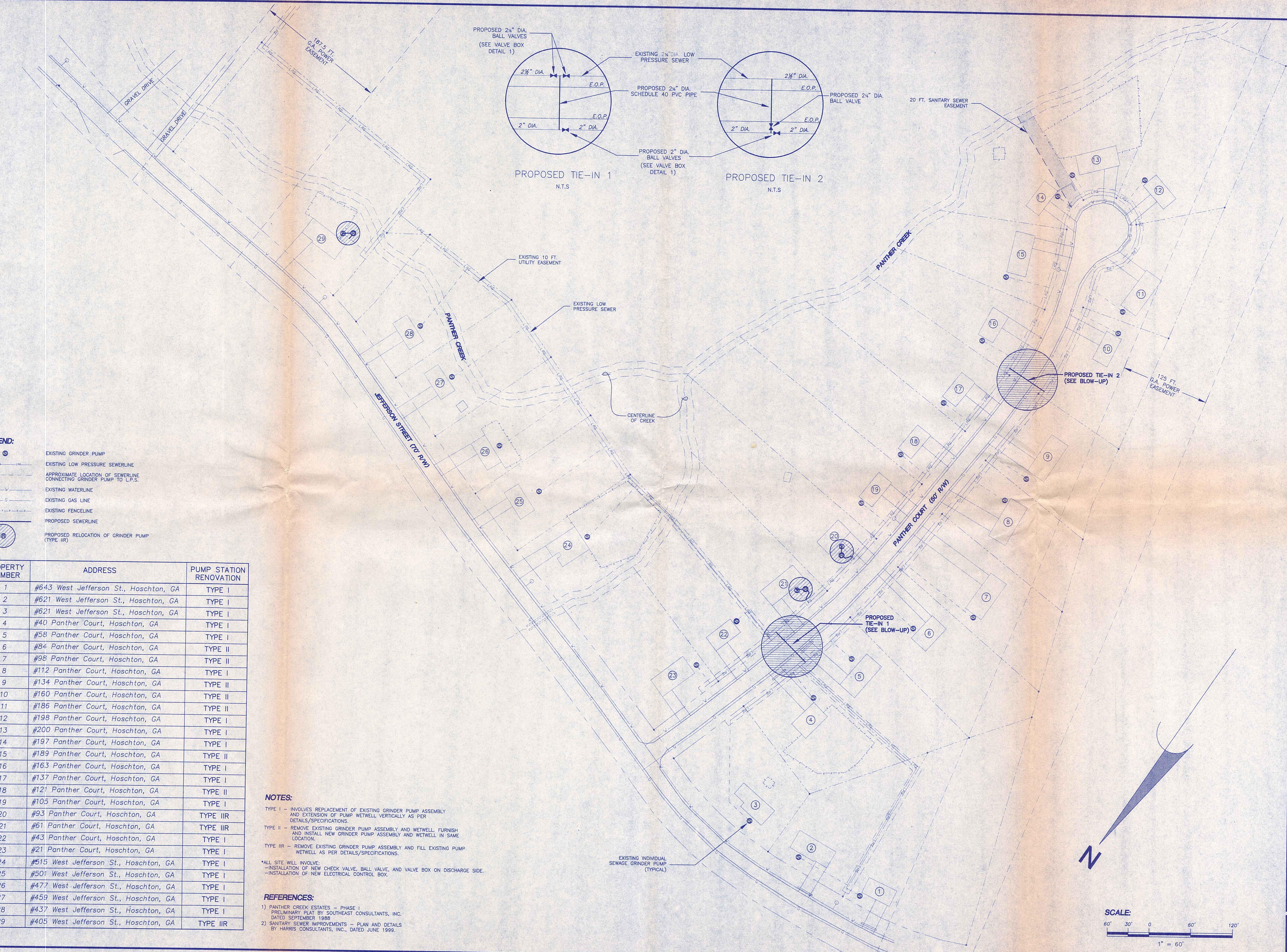
CALL BEFORE YOU DIG!
UTILITIES PROTECTION INC.
1-800-282-7411

ARMENTROUT • ROEBUCK • MATHENY
CONSULTING GROUP, P.C.
ENGINEERS-ARCHITECTS-CONSTRUCTION MANAGERS
OAKBROOK CORPORATE CAMPUS
330 RESEARCH DRIVE, SUITE A240
ATHENS, GEORGIA, USA 30605-2760
PHONE: (706) 548 8211
FAX: (706) 548 1814
http://www.armentrout-roebuck.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES S. ARMENTROUT
11/13/2000

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION AND CONTROL.

BY _____ GEORGIA REGISTERED P.E. NO. 14742



LEGEND:

- EXISTING GRINDER PUMP
- EXISTING LOW PRESSURE SEWERLINE
- APPROXIMATE LOCATION OF SEWERLINE CONNECTING GRINDER PUMP TO L.P.S.
- EXISTING WATERLINE
- EXISTING GAS LINE
- EXISTING FENCELINE
- PROPOSED SEWERLINE
- PROPOSED RELOCATION OF GRINDER PUMP (TYPE IIR)

PROPERTY NUMBER	ADDRESS	PUMP STATION RENOVATION
1	#643 West Jefferson St., Hoschton, GA	TYPE I
2	#621 West Jefferson St., Hoschton, GA	TYPE I
3	#621 West Jefferson St., Hoschton, GA	TYPE I
4	#40 Panther Court, Hoschton, GA	TYPE I
5	#58 Panther Court, Hoschton, GA	TYPE I
6	#84 Panther Court, Hoschton, GA	TYPE II
7	#98 Panther Court, Hoschton, GA	TYPE II
8	#112 Panther Court, Hoschton, GA	TYPE I
9	#134 Panther Court, Hoschton, GA	TYPE II
10	#160 Panther Court, Hoschton, GA	TYPE II
11	#186 Panther Court, Hoschton, GA	TYPE II
12	#198 Panther Court, Hoschton, GA	TYPE I
13	#200 Panther Court, Hoschton, GA	TYPE I
14	#197 Panther Court, Hoschton, GA	TYPE I
15	#189 Panther Court, Hoschton, GA	TYPE II
16	#163 Panther Court, Hoschton, GA	TYPE I
17	#137 Panther Court, Hoschton, GA	TYPE I
18	#121 Panther Court, Hoschton, GA	TYPE II
19	#105 Panther Court, Hoschton, GA	TYPE I
20	#93 Panther Court, Hoschton, GA	TYPE IIR
21	#61 Panther Court, Hoschton, GA	TYPE IIR
22	#43 Panther Court, Hoschton, GA	TYPE I
23	#21 Panther Court, Hoschton, GA	TYPE I
24	#515 West Jefferson St., Hoschton, GA	TYPE I
25	#501 West Jefferson St., Hoschton, GA	TYPE I
26	#477 West Jefferson St., Hoschton, GA	TYPE I
27	#459 West Jefferson St., Hoschton, GA	TYPE I
28	#437 West Jefferson St., Hoschton, GA	TYPE I
29	#405 West Jefferson St., Hoschton, GA	TYPE IIR

NOTES:

TYPE I – INVOLVES REPLACEMENT OF EXISTING GRINDER PUMP ASSEMBLY AND EXTENSION OF PUMP WETWELL VERTICALLY AS PER DETAILS/SPECIFICATIONS.

TYPE II – REMOVE EXISTING GRINDER PUMP ASSEMBLY AND WETWELL. FURNISH AND INSTALL NEW GRINDER PUMP ASSEMBLY AND WETWELL IN SAME LOCATION.

TYPE IIR – REMOVE EXISTING GRINDER PUMP ASSEMBLY AND FILL EXISTING PUMP WETWELL AS PER DETAILS/SPECIFICATIONS.

*ALL SITE WILL INVOLVE:
–INSTALLATION OF NEW CHECK VALVE, BALL VALVE, AND VALVE BOX ON DISCHARGE SIDE.
–INSTALLATION OF NEW ELECTRICAL CONTROL BOX.

REFERENCES:

1) PANTHER CREEK ESTATES – PHASE I PRELIMINARY PLAT BY SOUTHEAST CONSULTANTS, INC. DATED SEPTEMBER 1988
2) SANITARY SEWER IMPROVEMENTS – PLAN AND DETAILS BY HARRIS CONSULTANTS, INC., DATED JUNE 1999.

REVISIONS

DATE	NO.	BY	DESCRIPTION

DESIGNED: FWCT
DRAWN: FWCT
CHECKED: CSA
APPROVED: CSA
DRAWING: sewer-plan

GEORGIA REGISTERED No. 14742 PROFESSIONAL ENGINEER CHARLES ARMENTROUT
11/13/2001

ARMENTROUT • ROEBUCK • MATHENY
CONSULTING GROUP, P.C.
ENGINEERS-ARCHITECTS-CONSTRUCTION MANAGERS
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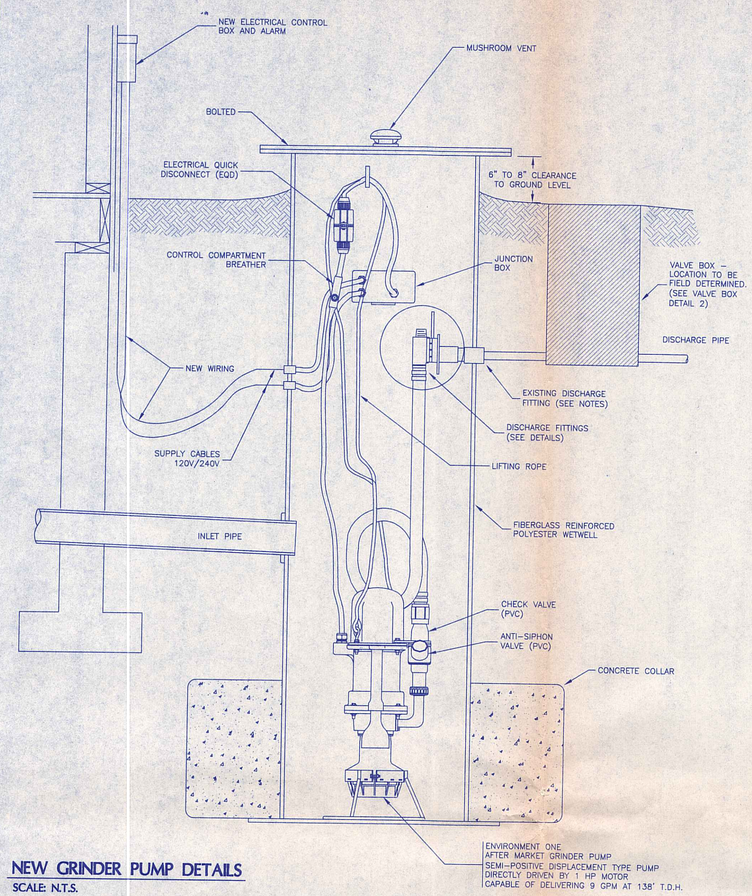
PROJECT 00219

HOSCHTON

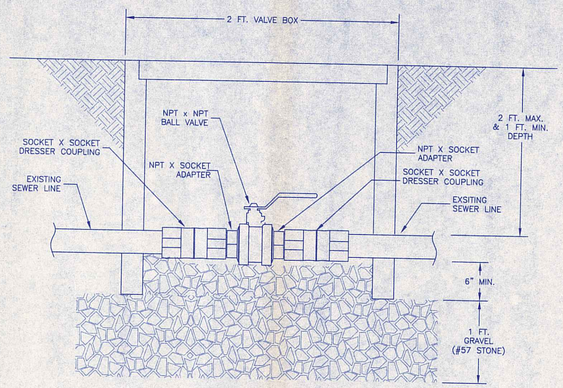
PANTHER CREEK SUBDIVISION SANITARY SEWER IMPROVEMENTS CITY OF HOSCHTON, GA

PLAN

SHEET 2 OF 5

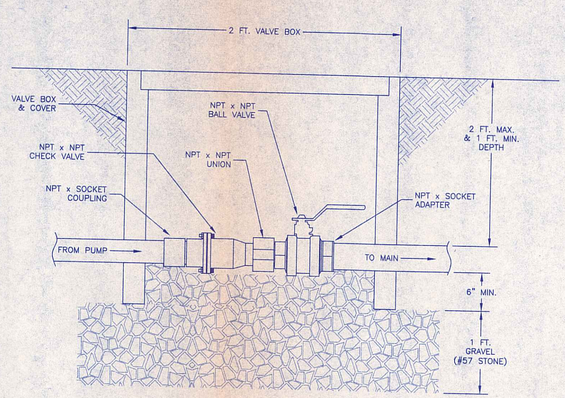


NEW GRINDER PUMP DETAILS
SCALE: N.T.S.



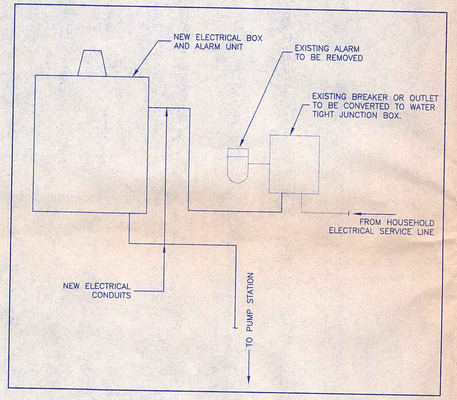
VALVE BOX DETAIL 1 - TYPICAL
SCALE: N.T.S.

NOTES:
1) USE TEFLON TAPE ON ALL NPT CONNECTIONS.
2) VALVE BOX TO BE PLASTIC WITH CAST IRON LID TYPICAL FOR WATER METER SERVICE.

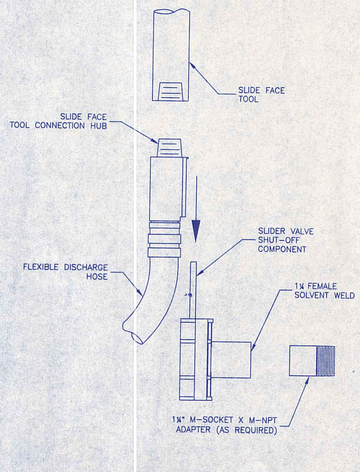


VALVE BOX DETAIL 2 - TYPICAL
SCALE: N.T.S.

NOTES:
1) USE TEFLON TAPE ON ALL NPT CONNECTIONS.
2) VALVE BOX TO BE PLASTIC WITH CAST IRON LID TYPICAL FOR WATER METER SERVICE.

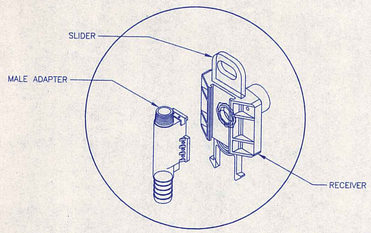


SCHEMATIC DIAGRAM FOR ELECTRICAL BOX
SCALE: N.T.S.



DISCHARGE FITTINGS DETAIL
SCALE: N.T.S.

NOTE:
1) USE TEFLON TAPE ON ALL NPT CONNECTIONS.

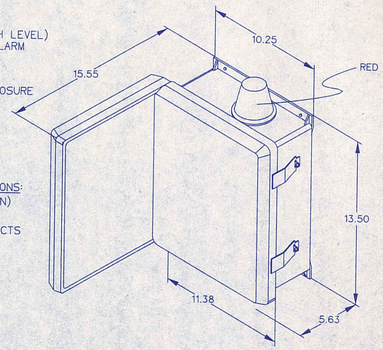


SLIDE FACE DISCHARGE COMPONENTS
SCALE: N.T.S.

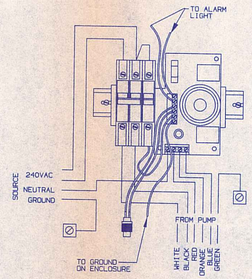
SIMPLEX MOD 250

REDUNDANT RUN (HIGH LEVEL)
VISUAL & AUDIBLE ALARM
MANUAL SILENCE
MANUAL RUN
240VAC
4X FIBERGLASS ENCLOSURE

AVAILABLE CONFIGURATIONS:
G01 - STANDARD (SHOWN)
G02 - WITHOUT HORN
G03 - WITH DRY CONTACTS
G04 - WITH REMOTE



NEW ELECTRICAL BOX COMPONENTS
SCALE: N.T.S.



CONTROL CABLE:
TYPE TC: DIRECT BURIAL, 12AWG, SIX CONDUCTOR.

REVISIONS

NO.	DESCRIPTION	BY	DATE

DESIGNED: FWCT
DRAWN: FWCT
CHECKED: CSA
APPROVED: CSA
DRAWING: details

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES SAMUEL ARMENTROUT

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PANTHER CREEK SUBDIVISION
SANITARY SEWER IMPROVEMENTS
CITY OF HOSCHTON, GA

DETAILS
SHEET 4 OF 5

VEGETATIVE PLAN NOTES

1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER DRILL, CULTIPACKER-SEEDER OR HYDRAULIC SEEDER.

2. ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA.

3. THE AGRICULTURAL LIME TO BE USED SHALL BE WITHIN SPECIFICATIONS OF THE GERGIA DEPARTMENT OF AGRICULTURE.

4. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE LAND PREPARATION SO THAT IT CAN BE MIXED WITH THE SOIL DURING SEED BED PREPARATION.

   FERTILIZER: – 1,500 LBS/ACRE (6-12-12) (FOR COOL AND WARM SEASON GRASSES AND LEGUMES)

   – 500 LBS/ACRE (10-10-10) (FOR TEMPORARY COVER CROPS SEEDED ALONE)

   LIME: 2 TON/ACRE OF AS INDICATED BY SOIL TESTS

5. USE MULCH ON ALL SLOPES STEEPER THAN 3% AND IN THE BOTTOM OF SPILLWAYS. THE MULCHING MATERIAL SHALL CONSIST OF:

   DRY STRAW OR HAY OF GOOD QUALITY, FREE OF SEEDS OF COMPETING PLANTS AT A RATE OF 2.5 TONS/ACRE.

   STRAW OR HAY MULCH SHALL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE EQUIPMENT, OTHER SPREADING EQUIPMENT, OR BY HAND. APPROXIMATELY 75% OF THE SOIL SURFACE SHALL BE COVERED.

   ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS.

   1. BY EMULSIFIED ASPHALT SPRAYED ONTO THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION OR SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE.

   2. BY PRESSING THE MULCH INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD WITH A SPECIAL PACKER DISK OR DISK HARROW WITH THE DISKS SET STRAIGHT AND DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT.

   3. PLASTIC MESH OR NETTING WITH NO LARGER THAN ONE INCH BY ONE INCH MESH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOIL AND IN CONCENTRATED FLOW AERAS.

   WOOD CELLULOSE MULCH OR WOOD PULP FIBER MULCH SHALL BE APPLIED WITH HYDRAULIC SEEDING EQUIPMENT AT THE RATE OF 1,000 LBS/ACRE. THIS TYPE OF MULCH IS SELF-ANCHORING.

6. IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

7. TOP DRESSING SHALL BE APPLIED ON ALL TEMPORARY GRASS SPECIES AND PERMANENT GRASSES PLANTED ALONE OR IN MIXTURE WITH OTHER SPECIES.

   PERMANENT GRASSES (COOL AND WARM SEASON-ALONE AND WITH LEGUMES) – 50 LBS/ACRE OF NITROGEN FERTILIZER

   TEMPORARY GRASS COVER CROPS SEEDED ALONE – 30 LBS/ACRE OF NITROGEN FERTILIZER

8. SECOND YEAR AND MAINTENANCE FERTILIZATION:

   PERMANENT GRASSES (COOL AND WARM SEASON-ALONE WITH LEGUMES) – 1,000 LBS/ACRE (0-10-10) (SECOND YEAR FERTILIZER)

   – 400 LBS/ACRE (0-10-10) (MAINTENANCE FERTILIZER)

9. LIME MAINTENANCE APPLICATION: APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS, OR AS INDICATED BY SOIL TESTS.

10. USE AND MANAGEMENT:

    BERMUDA GRASS AND BAHIA GRASS MAY BE MOWED AS DESIRED. MAINTAIN AT LEAST 6" OF TOP GROWTH UNDER ANY USE AND MANAGEMENT.

VEGETATIVE PLAN

TEMPORARY VEGETATION	PERMANENT VEGETATION
SPECIES: RYEGRASS, ANNUAL RATE: 40 LBS./ACRE DATES: 8/15 THRU 3/31	SPECIES: FESCUE, HYBRID RATE: 50 LBS./ACRE DATES: 3/1 THRU 4/15 8/15 THRU 10/15
SPECIES: BROWNTOP MILLET RATE: 40 LBS./ACRE DATES: 4/1 THRU 7/15	

NOTE: SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED

* PROBABLE CONSTRUCTION SCHEDULE

DATES	CALENDAR DAYS	ACTIVITY
NOVEMBER 15, 2000	1	PLAN SUBMITTAL TO EPD
NOVEMBER 15, 2000 – DECEMBER 15, 2000	30	PLAN REVIEW & APPROVAL
DECEMBER 15, 2000 – DECEMBER 30, 2000	15	INSTALL EROSION CONTROL MEASURES
DECEMBER 15, 2000 – MARCH 2, 2001	75	INSTALL NEW GRINDER PUMPS
MARCH 2, 2001 – MARCH 27, 2001	15	PLANT PERMANENT VEGETATION

* ACTUAL DATES WILL VARY DUE TO ACTUAL START OF CONSTRUCTION

"I cerify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act, and the document "Manual for Erosion and Sediment Control in Georgia," and that the designed system of best management practices meets the design requirements contained in the General NPDES Permit No. GAR 100000."

CHARLES S. ARMENTROUT — DATE 11/13/2000

GEORGIA REGISTERED PROFESSIONAL ENGINEER #14742

GENERAL SOIL EROSION & SEDIMENT CONTROL NOTES:

PROJECT NARRATIVE

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES & PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

3. EXISTING CONDITIONS: THE EXISTING SITE CONSISTS OF GRASSY OPEN AREAS.

4. OWNER'S REPRESENTATIVE & 24 HOUR CONTACT:

   CITY OF HOSCHTON
   c/o CINDY EDGE, CITY CLERK
   P.O. BOX 61
   HOSCHTON, GEORGIA 30548
   PHONE: (706) 654-3034
   FAX: (706) 654-9834

6. STRIPPING OF VEGETATION, REGRADING AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.

7. DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL.

8. ADJACENT AREAS:

   ADJACENT PROPERTY WILL NOT BE AFFECTED BY THE DISTURBANCE. THE ADJACENT AREA TO THE SOUTH EAST, WEST & NORTH IS GRASSY OR PAVED.

9. EROSION AND SEDIMENT CONTROL MEASURES:

   A. STORM DRAIN OUTLET PROTECTION SHALL BE INSTALLED AT ALL SIDE DRAIN AND STORM DRAIN OUTLETS AS REQUIRED.

   B. SILT FENCE SHALL BE INSTALLED AT THE BASE OF ALL SLOPES, BOTTOMS OF ALL SWALES AND DITCHES AS REQUIRED. SILT FENCE SHALL BE INSTALLED AT 100 FT. O.C. FOR SLOPES LESS THAN 5% AND INSTALLED AT 50 FT. O.C. FOR SLOPES GREATER THAN OR EQUAL TO 5%.

   C. ADDITIONAL SILT FENCE SHALL BE INSTALLED AS REQUIRED BY SITE CONDITIONS OR AS DIRECTED BY THE ENGINEER.

   D. ALL DISTURBED AREAS SHALL BE VEGETATED WITH TEMPORARY VEGETATION IN ACCORDANCE WITH THE VEGETATIVE PLAN.

   E. THERE ARE NO AREAS CONSIDERED CRITICAL EROSION AREAS.

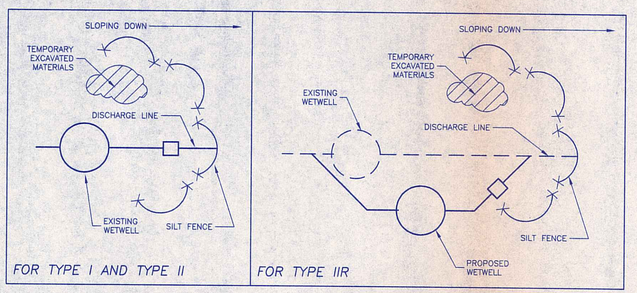
   F. THERE WILL NOT BE ANY ON-SITE DISPOSAL AREAS.

10. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 4th EDITION, 1996".

11. SOIL TYPES AS PER U.S.D.A. SOIL CONSERVATION SERVICE SOIL SURVEY FOR BARROW, HALL AND JACKSON COUNTIES, GEORGIA:

    CeB – CECIL SANDY LOAM, 2 TO 6 PERCENT SLOPES, PERMEABILITY: 2.0-6.0, SHRINK-SWELL POTENTIAL: LOW

12. ALL SLOPES OF 3:1 OR GREATER SHALL HAVE JUTE MATTING INSTALLED. JUTE MATTING SHALL BE AS MANUFACTURED BY NORTH AMERICAN GREEN S-150 OR APPROVED EQUAL.



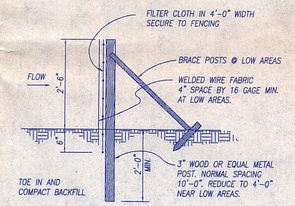
TYPICAL EROSION CONTROL

SCALE: N.T.S.

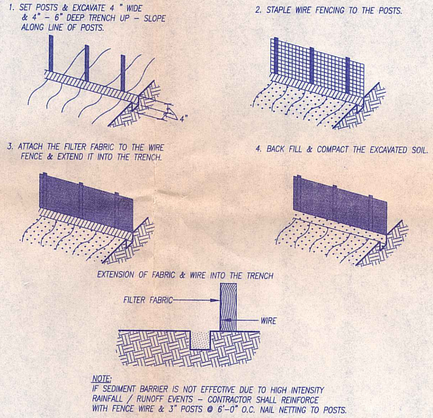
NOTE:
SILT FENCE SHALL COMPLY TO D.O.T. STANDARD SPECIFICATIONS SECTION 171.

SEDIMENT FENCES:
A SEDIMENT FENCE SHOULD BE CONSTRUCTED OF WOVEN WIRE FENCING WITH COMMERCIAL FILTER FABRIC SECURELY ATTACHED TO THE UPPER FACE. THE BOTTOM EDGE OF THE FILTER FABRIC SHOULD BE INSTALLED IN A TRENCH 4" TO 6" IN DEPTH, 8" TO 12" IN DEPTH FOR SURFACE MINING APPLICATIO.

MAINTENANCE:
SEDIMENT BARRIERS ARE TARGETS FOR VANDALS; FREQUENT INSPECTIONS ARE REQUIRED. REPAIR OR REPLACEMENT MUST BE MADE PROMPTLY AS NEEDED. CLEAN OUT TRAPPED SEDIMENT WHEN NEEDED.

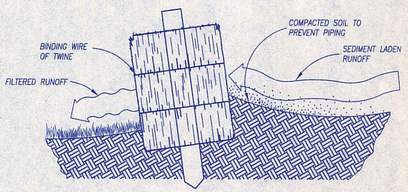


Sd1 SILT FENCE DETAIL
NOT TO SCALE



NOTE:
IF SEDIMENT BARRIER IS NOT EFFECTIVE DUE TO HIGH INTENSITY RAINFALL / RUNOFF EVENTS – CONTRACTOR SHALL REINFORCE WITH FENCE WIRE & 3" POSTS @ 6'-0" O.C. NAIL NETTING TO POSTS.

SILT FENCE CONSTRUCTION
NOT TO SCALE



NOTE: EMBED HAY BALES A MINIMUM OF 4 INCHES.

CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

Sd1 STRAW BALE DETAIL
NOT TO SCALE

REVISIONS

DATE	NO.	BY	DESCRIPTION

DESIGNED: FWCT
DRAWN: FWCT
CHECKED: CSA
APPROVED: CSA
DRAWING: detail

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES S. ARMENTROUT 11/13/2000

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HOSCHTON

PANTHER CREEK SUBDIVISION
SANITARY SEWER IMPROVEMENTS
CITY OF HOSCHTON, GA

EROSION AND SEDIMENTATION CONTROL DETAILS
SHEET 5 OF 5

NOT RELEASED FOR CONSTRUCTION

PRINT DATE: