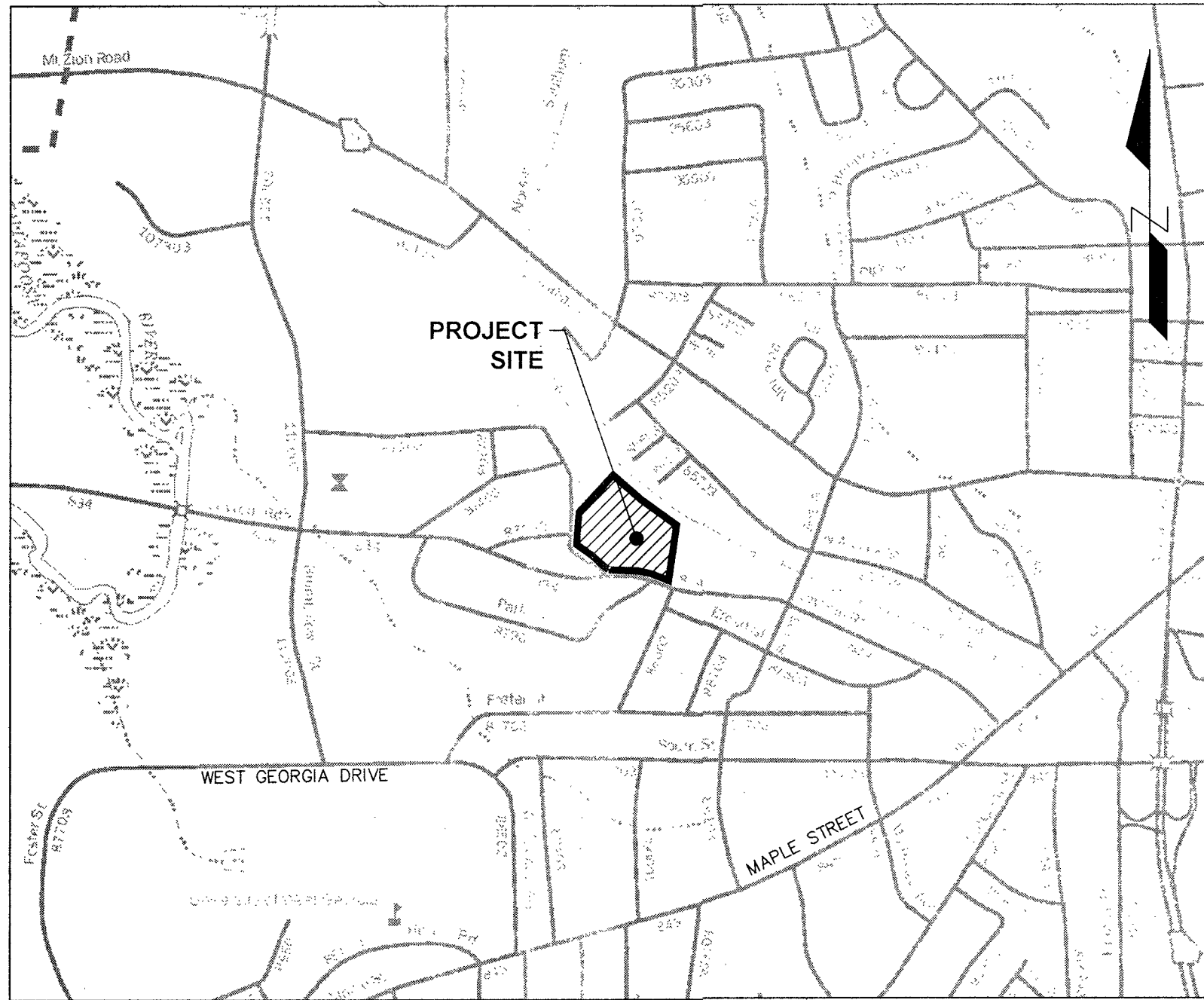




LOCATION MAP
CARROLLTON, GEORGIA
SCALE: 1"=1000'
G.P.S. COORDINATES
33.5791°
-85.0898°

THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL BE SIGNED IN ACCORDANCE WITH PART V.G., AND BE RETAINED ON THE SITE (OR, IF NOT POSSIBLE, AT A READILY ACCESSIBLE LOCATION) WHICH GENERATES THE STORM WATER DISCHARGE IN ACCORDANCE WITH PART IVE. OF THIS PERMIT. THE PRIMARY PERMITTEE SHALL ENSURE, AS PROVIDED FOR ELSEWHERE IN THIS PERMIT, THAT EACH SECONDARY PERMIT IS PROVIDED WITH A COPY OF THE PLAN AND THAT THE SECONDARY PERMIT UNDERSTANDS THEIR ROLE IN IMPLEMENTING THE PLAN. THE SECONDARY PERMITTEE SHALL SIGN THE PLAN OR THE PORTION OF THE PLAN APPLICABLE TO THEIR SITE IN ACCORDANCE WITH THE PART V.G. AND THE PLAN OR APPLICABLE PORTION THEREOF SHALL BE RETAINED ON THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM THE DATE OF THE PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

PRIMARY AND SECONDARY PERMITTEE SIGNATURES:
(APPLICABLE TO ESPC PLANS)

SIGNATURE COMPANY NAME DATE

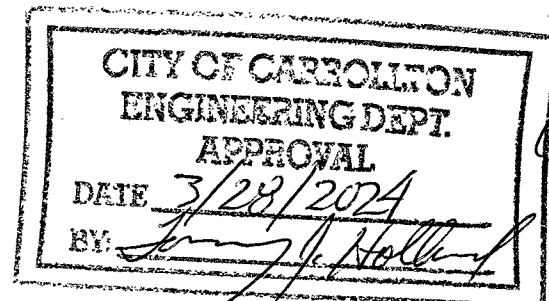
SIGNATURE COMPANY NAME DATE

SIGNATURE COMPANY NAME DATE

SIGNATURE COMPANY NAME DATE

LIST OF SECONDARY PERMITTEES:
-CONSTRUCTION COMPANY/CONTRACTOR
-PAVING CONTRACTOR
-TELEPHONE PROVIDER
-GAS PROVIDER
-POWER PROVIDER
-EROSION CONTRACTOR
-MONITORING CONTRACTOR
-SANITARY SEWER/SEPTIC CONTRACTOR
-WATER CONTRACTOR

*THIS LIST MAY BE UPDATED BY THE OWNER/DEVELOPER AND MUST BE FURNISHED TO GEORGIA AND WEST, INC. AT DATE OF THE CONSTRUCTION ACTIVITIES THAT WILL TAKE PLACE BY SAID COMPANY/INDIVIDUAL.



DESIGN & AS-BUILT CERTIFICATION BY P.E.
REQUIRE FOR RETAINING WALLS

501 LOVVORN ROAD

OWNER / DEVELOPER
24 HOUR CONTACT PERSON

CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159

GENERAL NOTES:

- ALL TRAFFIC CONTROL DESIGN, DEVICES, SIGNS, AND PROCEDURES MUST BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PLATE ALL TRENCHES & PITS THAT ARE OPEN OVERNIGHT.
- BEFORE CONSTRUCTION BEGINS A SEPARATE UTILITY, TRENCHING, CLEARING AND OR RIGHT-OF-WAY PERMIT FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION IS REQUIRED FOR ALL WORK THAT IS CONTAINED WITHIN A GADOT RIGHT-OF-WAY. NO EXCEPTIONS.
- EROSION CONTROL LAW COMPLIANCE IS THE SOLE RESPONSIBILITY OF THE PERMIT HOLDER; VIOLATIONS WILL BE CITED TO THE CITY OF CARROLLTON MAGISTRATE COURT.
- ALL DISTURBED AREAS MUST BE STABILIZED BY GRASSING IMMEDIATELY AFTER FINAL GRADES ARE SET.
- AS-BUILTS DRAWINGS MUST BE SUBMITTED ON ALL DEVELOPED BASED CONTRIBUTION UTILITIES, WHICH INCLUDES: WATER, SEWER, SEWER PROFILES, STORM WATER, DETENTION FACILITIES, CURB & GUTTER, AND ROADS. NO BUILDING PERMITS WILL BE ISSUED, OR FINAL PLATS RECORDED UNTIL A LETTER OF CREDIT OR BOND, AND AS-BUILTS ARE SUBMITTED AND APPROVED.
- ALL VEHICLES SHALL BE WASHED FREE FROM MUD VIA EQUIPMENT PROVIDED BY THE DEVELOPER, SIGNS SHALL BE POSTED ADJACENT TO THE CONSTRUCTION STATING "WASH MUD FROM VEHICLE BEFORE ENTERING PUBLIC RIGHT-OF-WAY".
- IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

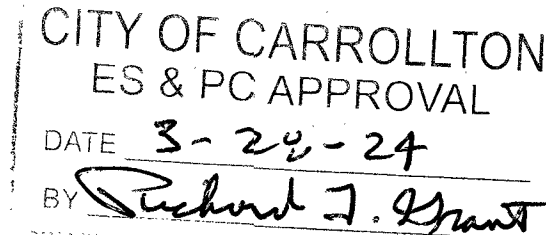
(C) CITY OF CARROLLTON, DEC. 2004

INDEX OF SHEETS

- C-1.0 TOPOGRAPHIC SURVEY
- C-1.1 DEMOLITION PLAN
- C-1.2 SITE PLAN
- C-2A.0 OVERALL GRADING PLAN
- C-2A.1 ENLARGED GRADING PLAN
- C-2A.2 ENLARGED GRADING PLAN
- C-2A.3 ENLARGED GRADING PLAN
- C-2B.0 STORM SEWER PLAN
- C-2B.1 STORM SEWER PROFILES
- C-2B.2 STORM SEWER PROFILES
- C-2B.3 STORM SEWER PROFILES
- C-3A.0 INITIAL PHASE EROSION CONTROL PLAN
- C-3B.0 GRADING PHASE EROSION CONTROL PLAN
- C-3C.0 FINAL PHASE EROSION CONTROL PLAN
- C-3D.0 EROSION CONTROL DATA
- C-3D.1 EROSION CONTROL DATA
- C-3D.2 EROSION CONTROL DATA
- C-3E.0 EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
- C-3E.1 EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES
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- CD-1.0 SITE DETAILS
- CD-1.1 SITE DETAILS
- CD-2.0 STORM SEWER DETAILS
- CD-2.1 STORM SEWER DETAILS
- CD-3.0 EROSION CONTROL DETAILS
- CD-4.0 SANITARY SEWER DETAILS
- CD-5.0 WATER DETAILS
- CD-5.1 WATER DETAILS



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105 CORPORATE DRIVE
CARROLLTON, GA. 30117
OFFICE (770) 834-4694
FAX (770) 834-1005
E-MAIL: mailbox@georgiaandwest.com



Know what's below.
Call before you dig.

501 LOVVORN ROAD

JN 220607
DATE 02-08-2024

OWNER / DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159

69
1/21/12
Lover

C:\PROJECT FOLDERS\2022\20607 - HUGH GLIDEWELL-501 LOVORN ROAD\DWG20607_X-CONST.dwg, 2/9/2024 9:18:00 AM

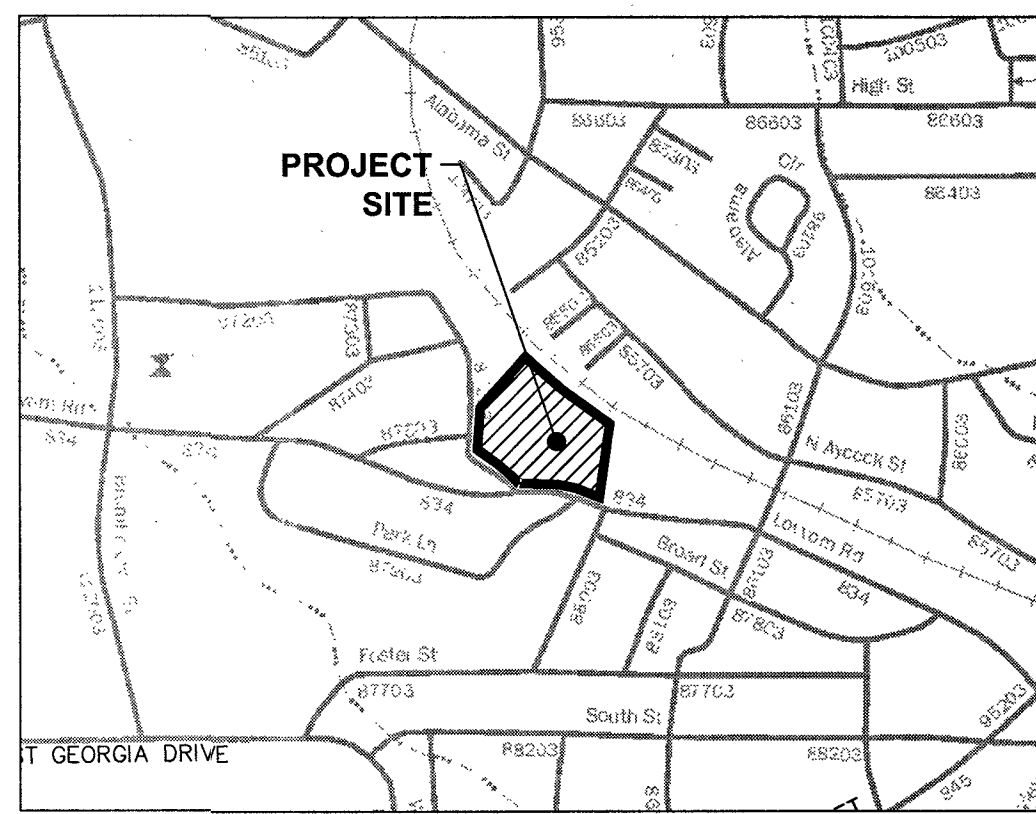


TREE LEGEND			
BE = BOXELDER	CW = COTTONWOOD	MA = MAPLE	PO = POPLAR
BO = BLACK GUM	CY = CYPRESS	MG = MAGNOLIA	RE = REDBUD
BH = BEECH	DW = DODGEWOOD	MI = MIMOSA	SG = SWEETGUM
BI = BIRCH	EM = ELM	O = OAK	SM = SYCAMORE
C = CEDAR	GI = GINKGO	PC = PECAN	SW = SOUTHWOOD
CH = CHERRY	HB = HACKBERRY	PE = PEAR	UK = UNKNOWN
CM = CREPE MYRTLE	HK = HICKORY	PI = PINE	WA = WALNUT

LEGEND		
1033 CATCH BASIN	OVERGROUND DOWNSPOUT	SEDIMENT BARRIER
1034 CATCH BASIN	WATER VALVE	TREE PROTECTION FENCE
1019A DROP INLET	GAS VALVE	CHAIN LINK FENCE
1011A JUNCTION BOX	HANDICAPPED PARKING	EXISTING FENCE
1019A TYPE E CURB INLET	TRAFFIC FLOW	PROPERTY LINE
1125 HEADWALL	UNDERGROUND POWER	EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE	EXISTING SPOT ELEVATION
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE	PROPOSED SPOT ELEVATION
PROPOSED FIRE HYDRANT	WATER	BACKFLOW PREVENTER
LAMP POST	SANITARY SEWER	IRRIGATION CONTROL VALVE
GUY POLE	FORCE MAIN	MAILBOX
UTILITY POLE	GAS	GAS METER
UNDERGROUND DOWNSPOUT	UNDERGROUND COMMUNICATIONS	POWER METER
	STORM DRAIN	UNDERGROUND GAS MARKER
		UNDERGROUND CABLE MARKER

Curve Table				
Curve #	Length	Radius	Chord Direction	Chord Length
C1	138.42'	1727.79'	N74° 01' 17"W	138.38'
C2	308.54'	1018.94'	N81° 03' 29"W	307.36'

Parcel Line Table		
Line #	Length	Direction
L1	88.16'	N52° 12' 16"W
L2	86.36'	N52° 12' 16"W
L3	76.02'	N55° 05' 48"W
L4	71.73'	N61° 05' 45"W
L5	237.50'	N04° 02' 54"E
L6	261.50'	N00° 21' 25"W
L7	182.00'	N83° 09' 13"E
L8	120.85'	N67° 38' 28"E
L9	11.22'	S44° 47' 57"E
L10	79.94'	S46° 19' 10"E
L11	61.49'	S47° 22' 18"E
L12	46.24'	S48° 19' 12"E
L13	79.09'	S49° 14' 55"E
L14	79.50'	S50° 27' 29"E
L15	64.84'	S51° 37' 23"E
L16	81.15'	S52° 28' 52"E
L17	91.53'	S52° 39' 49"E
L18	144.43'	N71° 19' 05"W

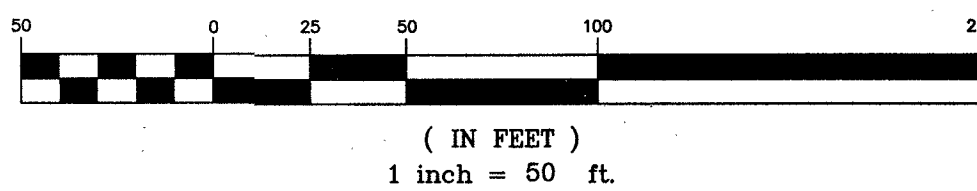


LOCATION MAP
CARROLLTON, GEORGIA
SCALE: 1"=1000'

OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
985 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

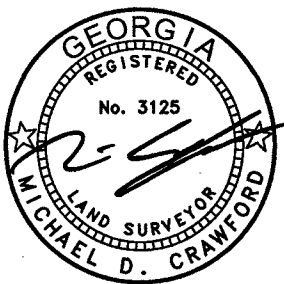
THE F.I.R.M. MAP NUMBER 13045C02540 EFFECTIVE DATE 09/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.

GRAPHIC SCALE



LAST DATE OF FIELD WORK: 11/30/2022

- CONSTRUCTION NOTES
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
 5. COMPACTION STANDARDS:
 - 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 6. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
 7. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.



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105 CORPORATE DRIVE
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OFFICE (770) 834-4694
FAX (770) 834-1005

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NOTICE: IT IS THE PROPERTY OWNER'S/CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

TITLE: TOPOGRAPHIC SURVEY

501 LOVORN ROAD

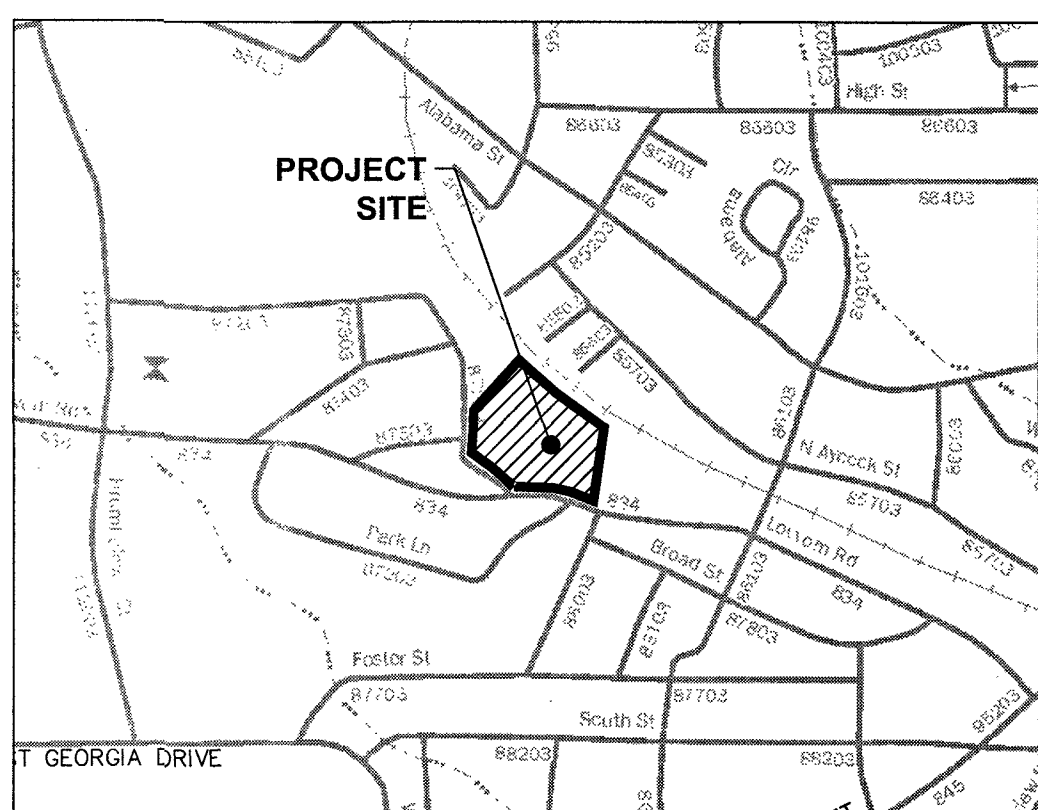
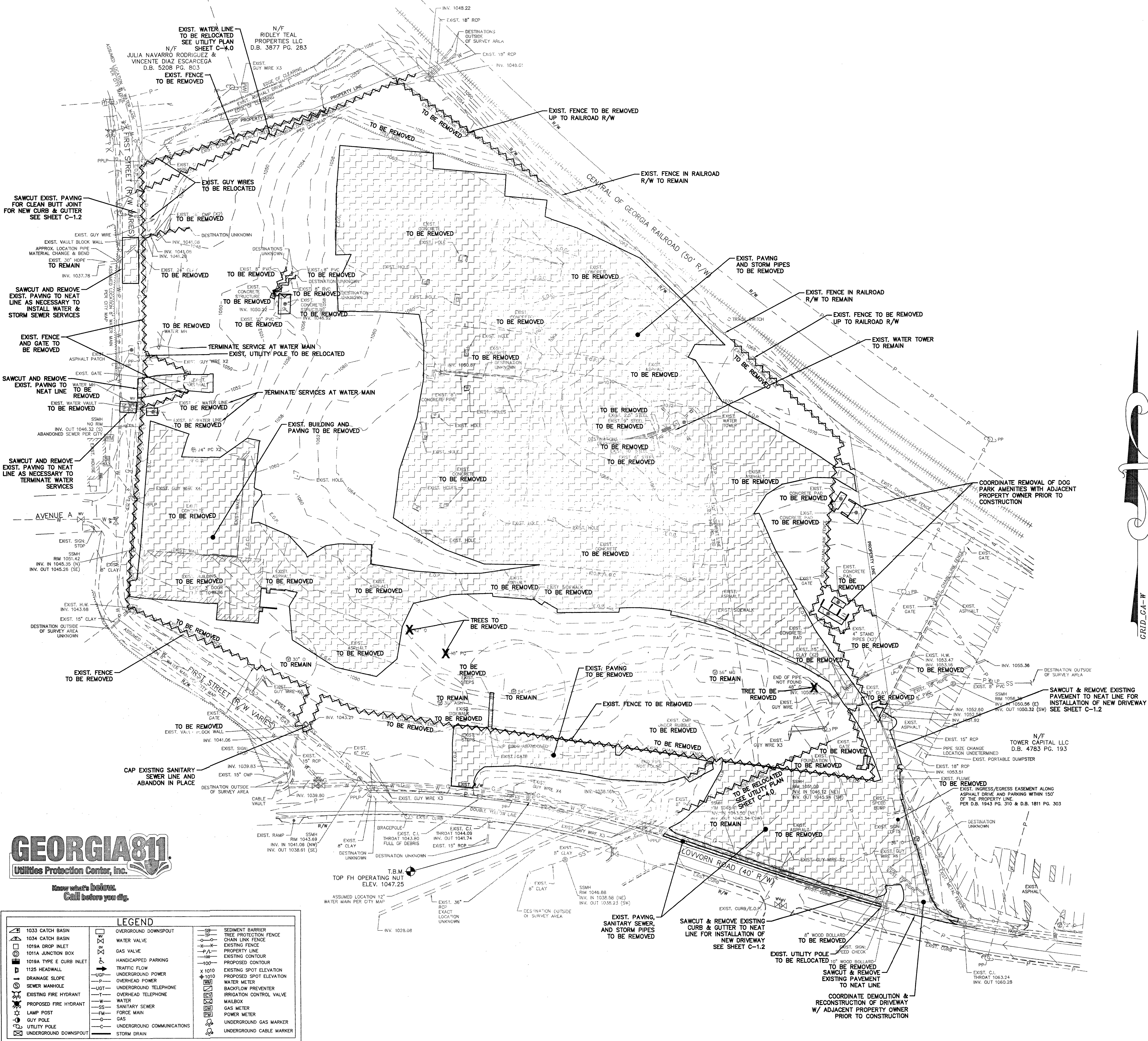
LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

DATE: 02-08-2024
JOB NUMBER: 220607
SCALE: 1" = 50'

C-1.0



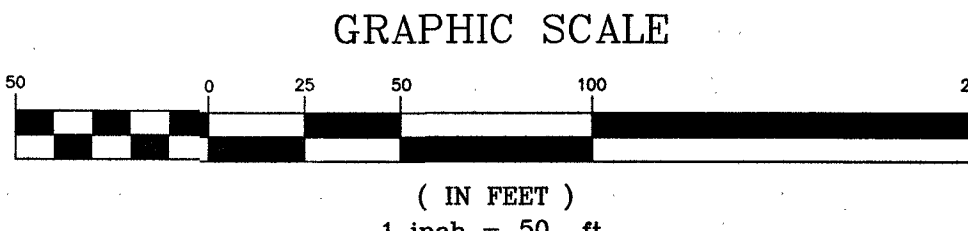
LEGEND			
	1033 CATCH BASIN		SEDIMENT BARRIER
	1034 CATCH BASIN		TREE PROTECTION FENCE
	1019A DROP INLET		CHAIN LINK FENCE
	1019A JUNCTION BOX		EXISTING FENCE
	1019A TYPE E CURB INLET		PROPERTY LINE
	1125 HEADWALL		HANDICAPPED PARKING
	DRAINAGE SLOPE		TRAFFIC FLOW
	SEWER MANHOLE		UNDERGROUND POWER
	EXISTING FIRE HYDRANT		OVERHEAD POWER
	PROPOSED FIRE HYDRANT		BACKFLOW PREVENTER
	LAMP POST		IRRIGATION CONTROL VALVE
	GUY POLE		MAILBOX
	UTILITY POLE		GAS METER
	UNDERGROUND DOWNSPOUT		POWER METER
	OVERGROUND DOWNSPOUT		GAS
	WATER VALVE		UNDERGROUND GAS MARKER
	GAS VALVE		STORM DRAIN
	HANDICAPPED PARKING		
	TRAFFIC FLOW		
	UNDERGROUND POWER		
	OVERHEAD POWER		
	BACKFLOW PREVENTER		
	IRRIGATION CONTROL VALVE		
	MAILBOX		
	GAS METER		
	POWER METER		
	GAS		
	UNDERGROUND GAS MARKER		
	STORM DRAIN		



OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

THE F.I.R.M. MAP NUMBER 13045C0254D EFFECTIVE DATE 09/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.

- DEMOLITION NOTES:
1. ALL DEMOLITION WASTE SHALL BE DISPOSED OFF-SITE TO A STATE-APPROVED LANDFILL OR OTHER APPROVED METHOD.
 2. DEMOLITION PROCESS & SCHEDULE SHALL BE COORDINATED WITH OWNER PRIOR TO CONSTRUCTION.
 3. ALL EXISTING UNDERGROUND UTILITIES UNDER OR WITHIN 10' OF PROP. BLDG. TO BE REMOVED.
 4. COORDINATE ALL UTILITY REMOVAL, RELOCATION, AND/OR ABANDONMENT W/ UTILITY OWNER. ALL WATER AND SANITARY SEWER REMOVAL, RELOCATION, AND/OR ABANDONMENT SHALL BE PERFORMED BY CONTRACTOR. FOR ALL UTILITY TERMINATIONS REQUIRING PAVEMENT REMOVAL WITHIN ROADWAY, CONTRACTOR SHALL PATCH ROAD PER CITY OF CARROLLTON OPEN CUT PAVEMENT REPAIR DETAIL, SHEET CD-5.0.
 5. REFER TO EROSION CONTROL PLANS FOR TREES TO BE PROTECTED.
 6. 3 SPECIMEN TREES TO BE REMOVED. SEE LANDSCAPE PLANS FOR REPLACEMENT OF SPECIMEN TREES.



- CONSTRUCTION NOTES
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
 5. COMPACTION STANDARDS:
 - 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 5. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
 6. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

NO. DATE REVISION

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034591 JOHN D. BAIS

GEORGIA REGISTERED PROFESSIONAL LAND SURVEYOR No. 3125 MICHAEL D. CRAWFORD

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
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TITLE: DEMOLITION PLAN

501 LOVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

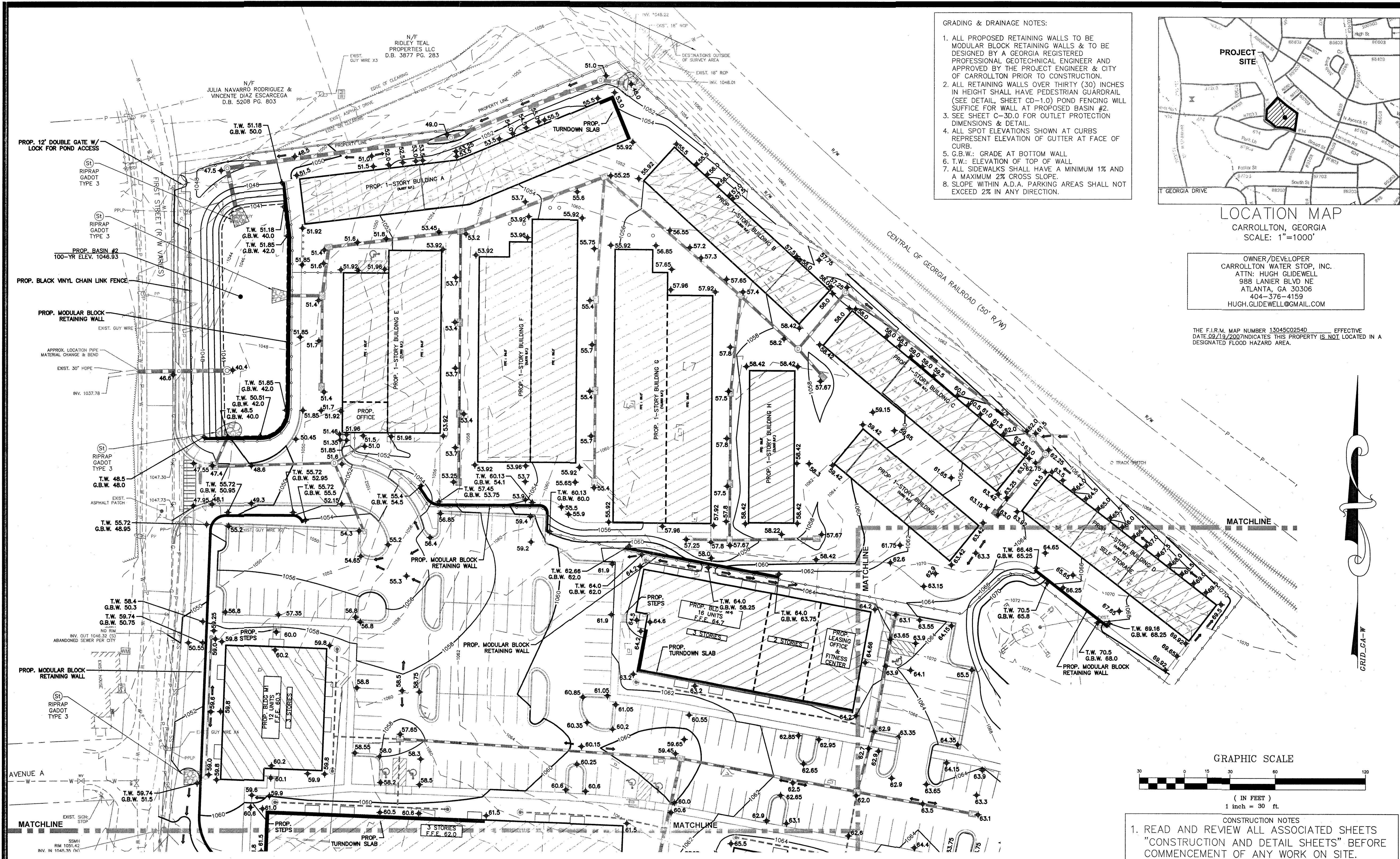
DATE: 02-08-2024

JOB NUMBER: 220607

DESIGNED BY: JDB

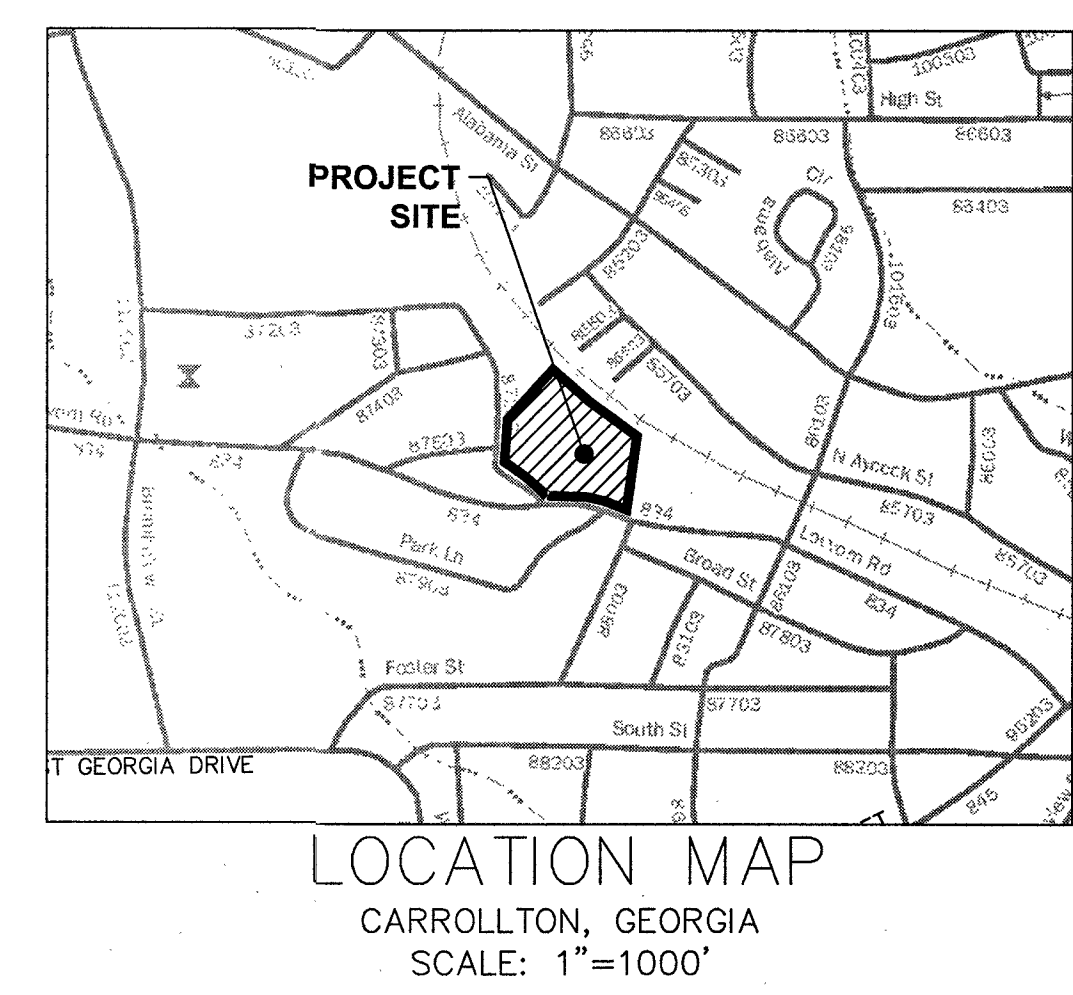
SCALE: 1" = 50'

C-1.1



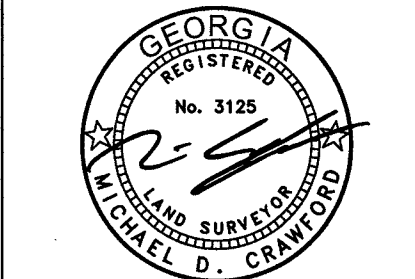
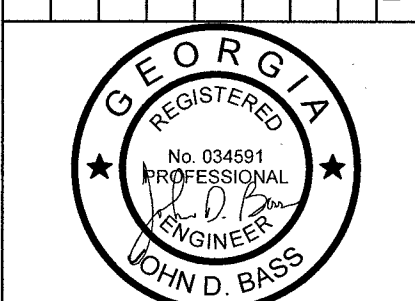
GRADING & DRAINAGE NOTES:

1. ALL PROPOSED RETAINING WALLS TO BE MODULAR BLOCK RETAINING WALLS & TO BE DESIGNED BY A GEORGIA REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER AND APPROVED BY THE PROJECT ENGINEER & CITY OF CARROLLTON PRIOR TO CONSTRUCTION.
2. ALL RETAINING WALLS OVER THIRTY (30) INCHES IN HEIGHT SHALL HAVE PEDESTRIAN GUARDRAIL (SEE DETAIL, SHEET CD-1.0) POND FENCING WILL SUFFICE FOR WALL AT PROPOSED BASIN #2.
3. SEE SHEET C-3D.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.
4. ALL SPOT ELEVATIONS SHOWN AT CURBS REPRESENT ELEVATION OF GUTTER AT FACE OF CURB.
5. G.B.W.: GRADE AT BOTTOM WALL
6. T.W.: ELEVATION OF TOP OF WALL
7. ALL SIDEWALKS SHALL HAVE A MINIMUM 1% AND A MAXIMUM 2% CROSS SLOPE.
8. SLOPE WITHIN A.D.A. PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.



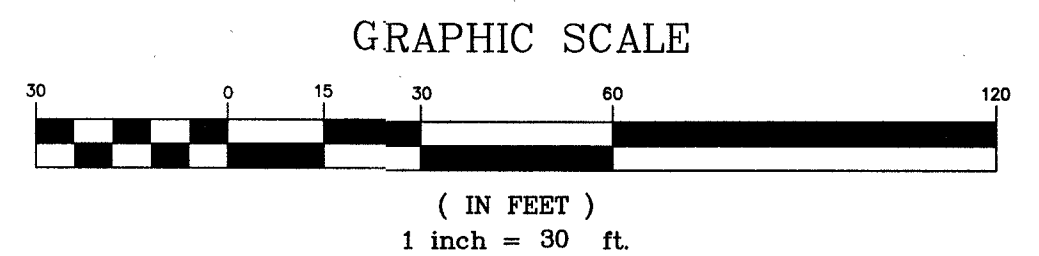
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ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

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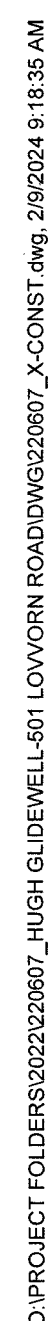
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 6. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
 7. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

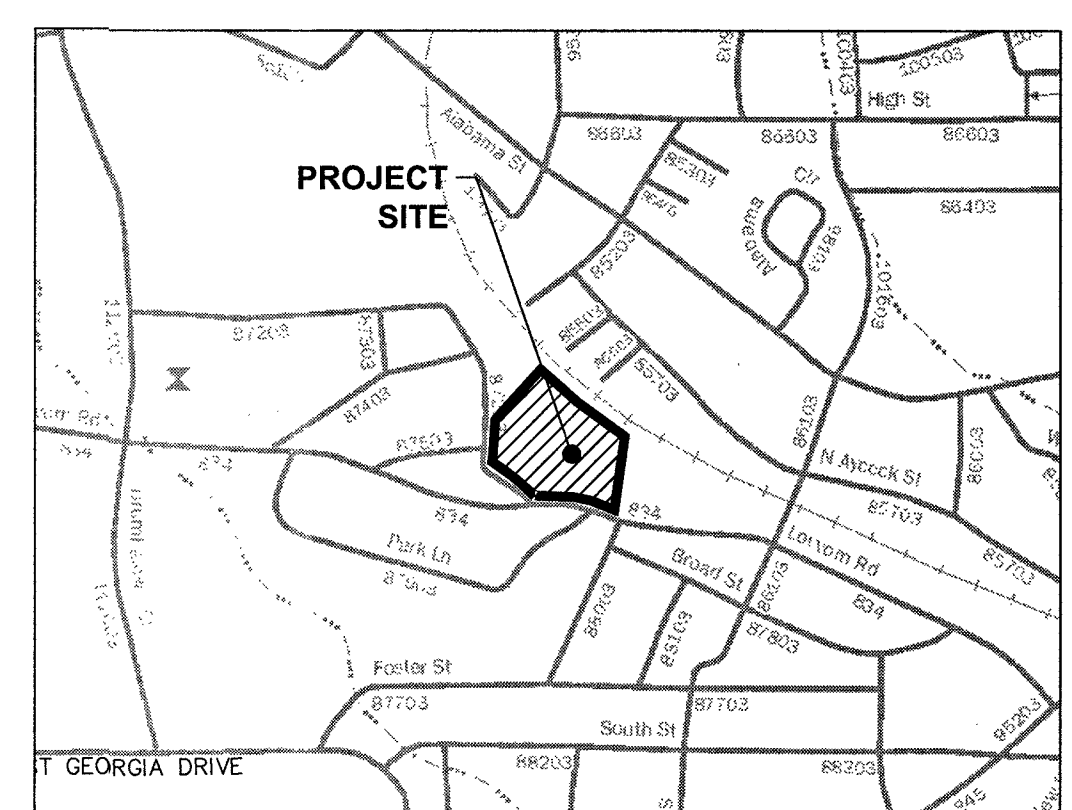
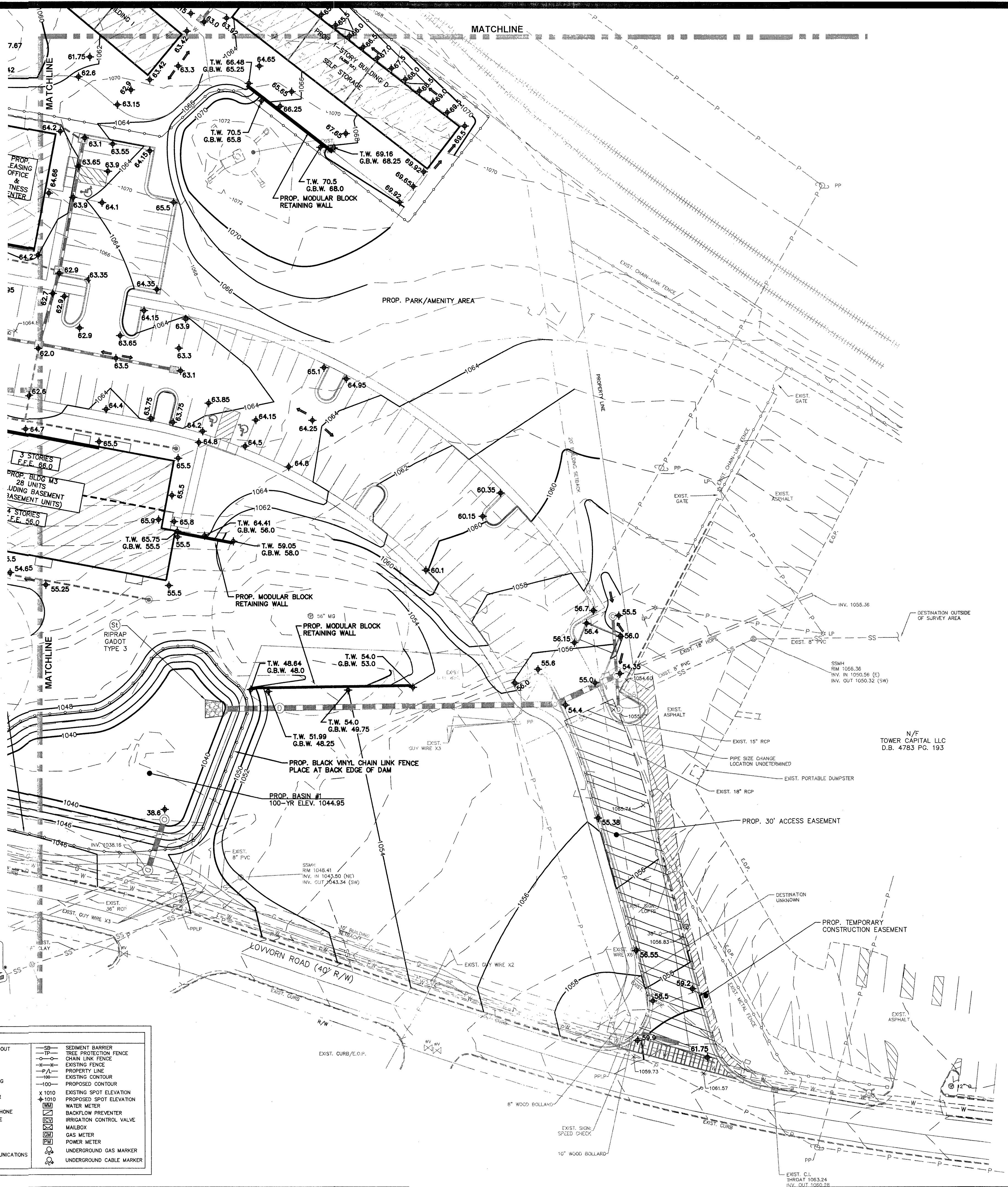
- GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)
1. ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 2. NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
 3. "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
 4. ALL CONTRACTORS FOR GRADING, EROSION CONTROL AND STORMWATER SYSTEM CONSTRUCTION SHALL BE APPROVED BY THE CITY.
 5. CONTRACTORS HAVE THE RESPONSIBILITY TO COMPLY WITH EROSION CONTROL REQUIREMENTS OF THE LOCAL LAND DISTURBANCE PERMIT AND NPDES GENERAL PERMIT IF APPLICABLE.
 6. THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. CITY OF CARROLLTON, NOV. 2007

LEGEND			
	1033 CATCH BASIN		OVERGROUND DOWNSPOUT
	1034 CATCH BASIN		WATER VALVE
	1019A DROP INLET		GAS VALVE
	1019A JUNCTION BOX		HANDICAPPED PARKING
	1019A TYPE E CURB INLET		TRAFFIC FLOW
	1125 HEADWALL		UNDERGROUND POWER
	DRAINAGE SLOPE		OVERHEAD POWER
	SEWER MANHOLE		UNDERGROUND TELEPHONE
	EXISTING FIRE HYDRANT		OVERHEAD TELEPHONE
	PROPOSED FIRE HYDRANT		WATER
	LAMP POST		SANITARY SEWER
	GUY POLE		FURNACE MAIN
	UTILITY POLE		GAS
	UNDERGROUND DOWNSPOUT		UNDERGROUND COMMUNICATIONS
			STORM DRAIN
			SEDIMENT BARRIER
			TREE PROTECTION FENCE
			CHAIN LINK FENCE
			EXISTING FENCE
			PROPERTY LINE
			EXISTING CONTOUR
			PROPOSED CONTOUR
			EXISTING SPOT ELEVATION
			PROPOSED SPOT ELEVATION
			WATER METER
			BACKFLOW PREVENTER
			IRRIGATION CONTROL VALVE
			MAILBOX
			GAS METER
			POWER METER
			UNDERGROUND GAS MARKER
			UNDERGROUND CABLE MARKER



TITLE: ENLARGED GRADING PLAN
501 LOVVORN ROAD
LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA
SCALE: 1" = 30'
DATE: 02-08-2024
JOB NUMBER: 220607
DESIGNED BY: JDB



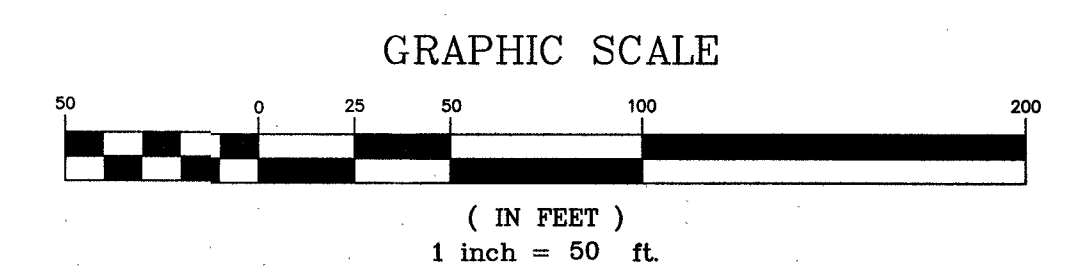


OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

THE F.I.R.M. MAP NUMBER 13045002540 EFFECTIVE
DATE 09/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A
DESIGNATED FLOOD HAZARD AREA.

- GRADING & DRAINAGE NOTES:
1. ALL PROPOSED RETAINING WALLS TO BE MODULAR BLOCK RETAINING WALLS & TO BE DESIGNED BY A GEORGIA REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER AND APPROVED BY THE PROJECT ENGINEER & CITY OF CARROLLTON PRIOR TO CONSTRUCTION.
 2. ALL RETAINING WALLS OVER THIRTY (30) INCHES IN HEIGHT SHALL HAVE PEDESTRIAN GUARDRAIL (SEE DETAIL, SHEET CD-1.0) POND FENCING WILL SUFFICE FOR WALL AT PROPOSED BASIN #2.
 3. SEE SHEET C-3D.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.
 4. ALL SPOT ELEVATIONS SHOWN AT CURBS REPRESENT ELEVATION OF GUTTER AT FACE OF CURB.
 5. G.B.W.: GRADE AT BOTTOM WALL
 6. T.W.: ELEVATION OF TOP OF WALL
 7. ALL SIDEWALKS SHALL HAVE A MINIMUM 1% AND A MAXIMUM 2% CROSS SLOPE.
 8. SLOPE WITHIN A.D.A. PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.

- GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)
1. ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 2. NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
 3. "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
 4. ALL CONTRACTORS FOR GRADING, EROSION CONTROL AND STORMWATER SYSTEM CONSTRUCTION SHALL BE APPROVED BY THE CITY.
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 6. THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. CITY OF CARROLLTON, NOV. 2007



- CONSTRUCTION NOTES
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
 5. COMPACTION STANDARDS:
 - 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 5. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
 6. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.



LEGEND			
	1033 CATCH BASIN		OVERGROUND DOWNSPOUT
	1034 CATCH BASIN		WATER VALVE
	1019A DROP INLET		GAS VALVE
	1011A JUNCTION BOX		HANDICAPPED PARKING
	1019A TYPE E CURB INLET		TRAFFIC FLOW
	1125 HEADWALL		UNDERGROUND POWER
	DRAINAGE SLOPE		OVERHEAD POWER
	SEWER MANHOLE		UNDERGROUND TELEPHONE
	EXISTING FIRE HYDRANT		OVERHEAD TELEPHONE
	PROPOSED FIRE HYDRANT		WATER
	LAMP POST		SANITARY SEWER
	GUY POLE		FORCE MAIN
	UTILITY POLE		GAS
	UNDERGROUND DOWNSPOUT		UNDERGROUND COMMUNICATIONS
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			EXISTING CONTOUR
			PROPOSED CONTOUR
			EXISTING SPOT ELEVATION
			PROPOSED SPOT ELEVATION
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			IRRIGATION CONTROL VALVE
			MAILBOX
			GAS METER
			POWER METER
			UNDERGROUND GAS MARKER
			UNDERGROUND CABLE MARKER

REGISTERED PROFESSIONAL ENGINEER
No. 034591
JOHN D. BASS

REGISTERED LAND SURVEYOR
No. 3125
MICHAEL D. CRAWFORD

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: mailbo@georgiawest.com

OFFICE (770) 834-4684
FAX (770) 834-1005

TITLE: ENLARGED GRADING PLAN

501 LOVVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

SCALE: 1"=50'

DATE: _____

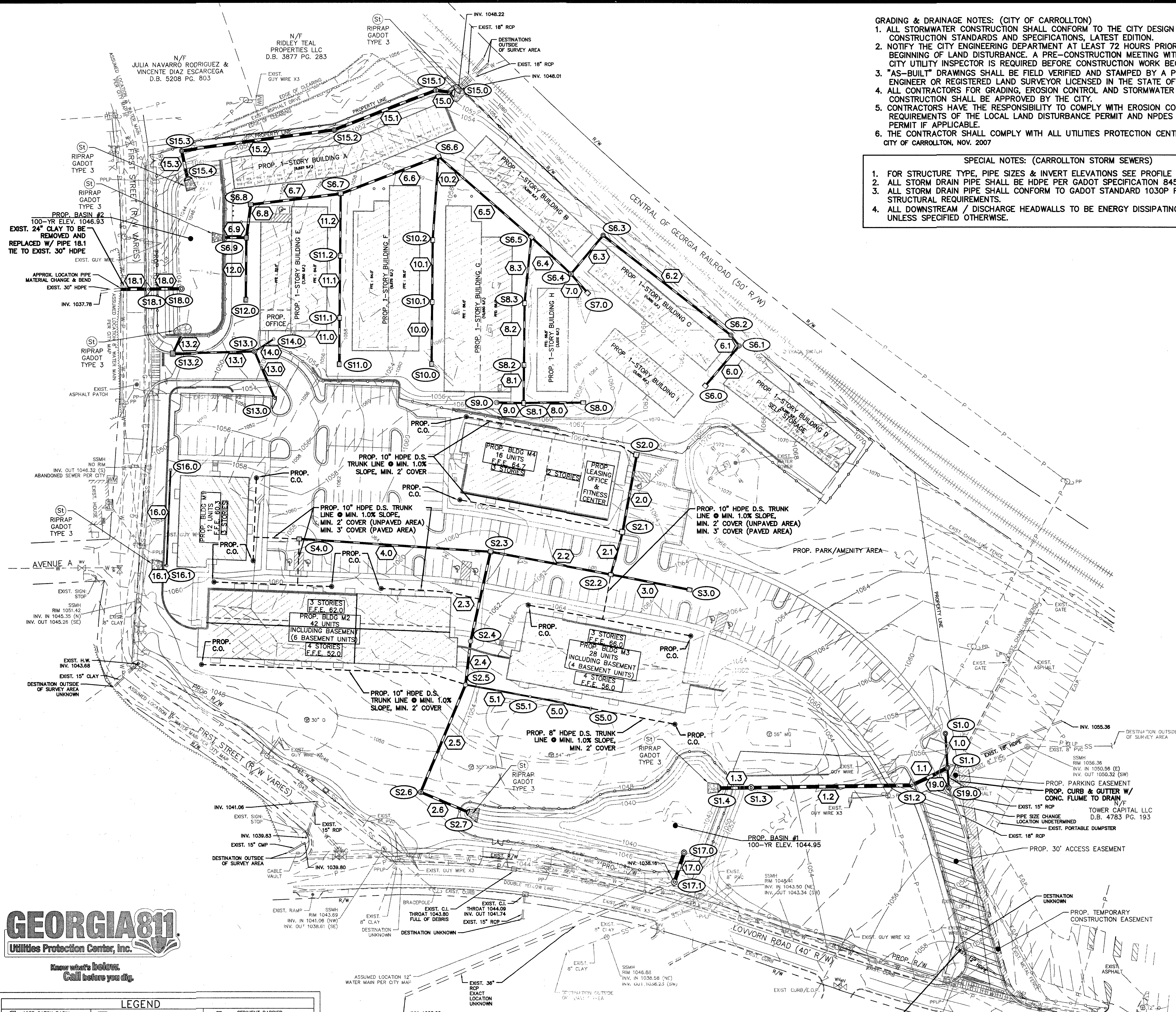
JOB NUMBER: _____

DESIGNED BY: _____

C-2A.3

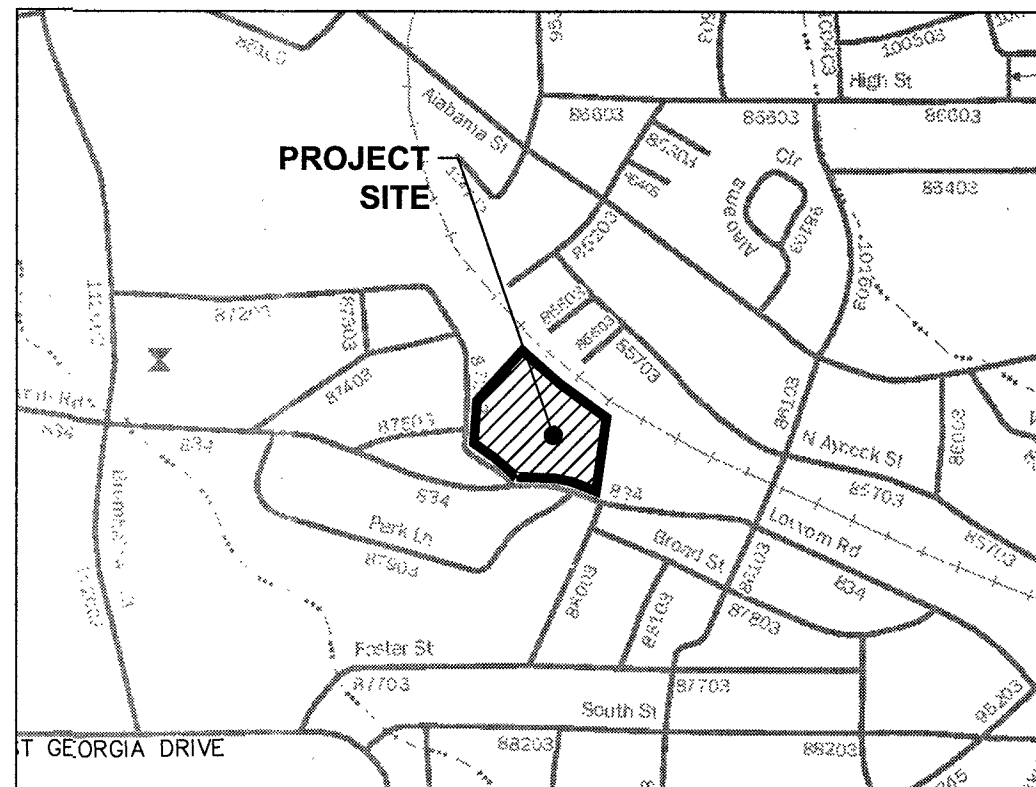


LEGEND			



- GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)
1. ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 2. NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
 3. "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
 4. ALL CONTRACTORS FOR GRADING, EROSION CONTROL AND STORMWATER SYSTEM CONSTRUCTION SHALL BE APPROVED BY THE CITY.
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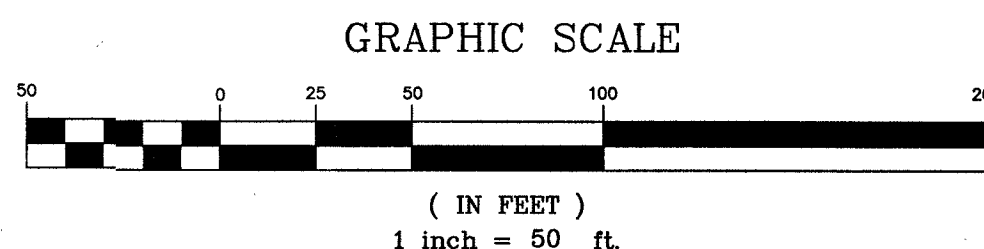
- SPECIAL NOTES: (CARROLLTON STORM SEWERS)
1. FOR STRUCTURE TYPE, PIPE SIZES & INVERT ELEVATIONS SEE PROFILE SHEETS.
 2. ALL STORM DRAIN PIPE SHALL BE HDPE PER GADOT SPECIFICATION 845.
 3. ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030P FOR STRUCTURAL REQUIREMENTS.
 4. ALL DOWNSTREAM / DISCHARGE HEADWALLS TO BE ENERGY DISSIPATING HEADWALL UNLESS SPECIFIED OTHERWISE.



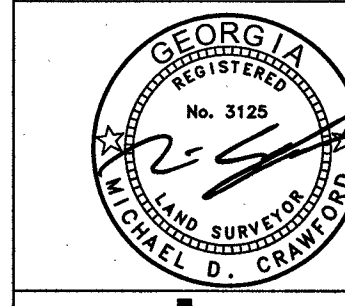
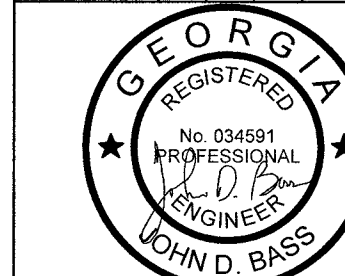
OWNER/DEVELOPER
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ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

THE F.I.R.M. MAP NUMBER 13045C0254D EFFECTIVE DATE 09/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.

- DRAINAGE NOTES:
1. COORDINATION WITH BUILDING PLANS REQUIRED TO VERIFY BUILDING DOWNSPOUT PIPING DESIGN & DOWN SPOUT INVERT ELEVATIONS INTO STORM DRAINAGE STRUCTURES. NOTIFY PROJECT ENGINEER TO VERIFY DESIGN PRIOR TO COMMENCING CONSTRUCTION AND ORDERING OF STORM SEWER MATERIAL.
 2. SEE SHEET C-30.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.
 3. SEE SHEET C-2B.3 FOR OUTLET CONTROL STRUCTURE DETAILS.
 4. GDOT 1019A TYPE C D.I. FRAME AND GRATES TO SIT ABOVE CONCRETE STRUCTURE TOP AND SHALL BE FLUSH WITH PAVEMENT. DO NOT RECESS FRAME AND GRATE INTO STRUCTURE TOP.
 5. YARD INLETS SHALL HAVE EJ 1130Z FRAME AND 1130 O2 GRATE OR APPROVED EQUAL.
 6. DRAIN BASINS & INLINE DRAINS SHALL HAVE NYLOPLAST 15" DUCTILE IRON DOMED GRATES OR APPROVED EQUAL.



- CONSTRUCTION NOTES
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
 5. COMPACTION STANDARDS:
 - 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 6. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVICING UTILITY COMPANY.
 7. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.



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E-MAIL: info@georgiawest.com

WARNING: THIS PLAN SHEET IS NOT AN OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.
WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.
NOTICE: IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITY.

TITLE: STORM DRAINAGE PLAN
501 LOVORN ROAD
LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

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OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

DRAINAGE NOTES:

- COORDINATION WITH BUILDING PLANS REQUIRED TO VERIFY BUILDING DOWNSPOUT PIPING DESIGN & DOWN SPOUT INVERT ELEVATIONS INTO STORM DRAINAGE STRUCTURES. NOTIFY PROJECT ENGINEER TO VERIFY DESIGN PRIOR TO COMMENCING CONSTRUCTION AND ORDERING OF STORM SEWER MATERIAL.
- SEE SHEET C-3D.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.
- SEE SHEET C-2B.3 FOR OUTLET CONTROL STRUCTURE DETAILS.
- ODOT 1019A TYPE C D.I. FRAME AND GRATES TO SIT ABOVE CONCRETE STRUCTURE TOP AND SHALL BE FLUSH WITH PAVEMENT. DO NOT RECESS FRAME AND GRATE INTO STRUCTURE TOP.
- YARD INLETS SHALL HAVE EJ 1130Z FRAME AND 1130 OZ GRATE OR APPROVED EQUAL.
- DRAIN BASINS & INLINE DRAINS SHALL HAVE NYLOPLAST 15" DUCTILE IRON DOMED GRATES OR APPROVED EQUAL.

GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)

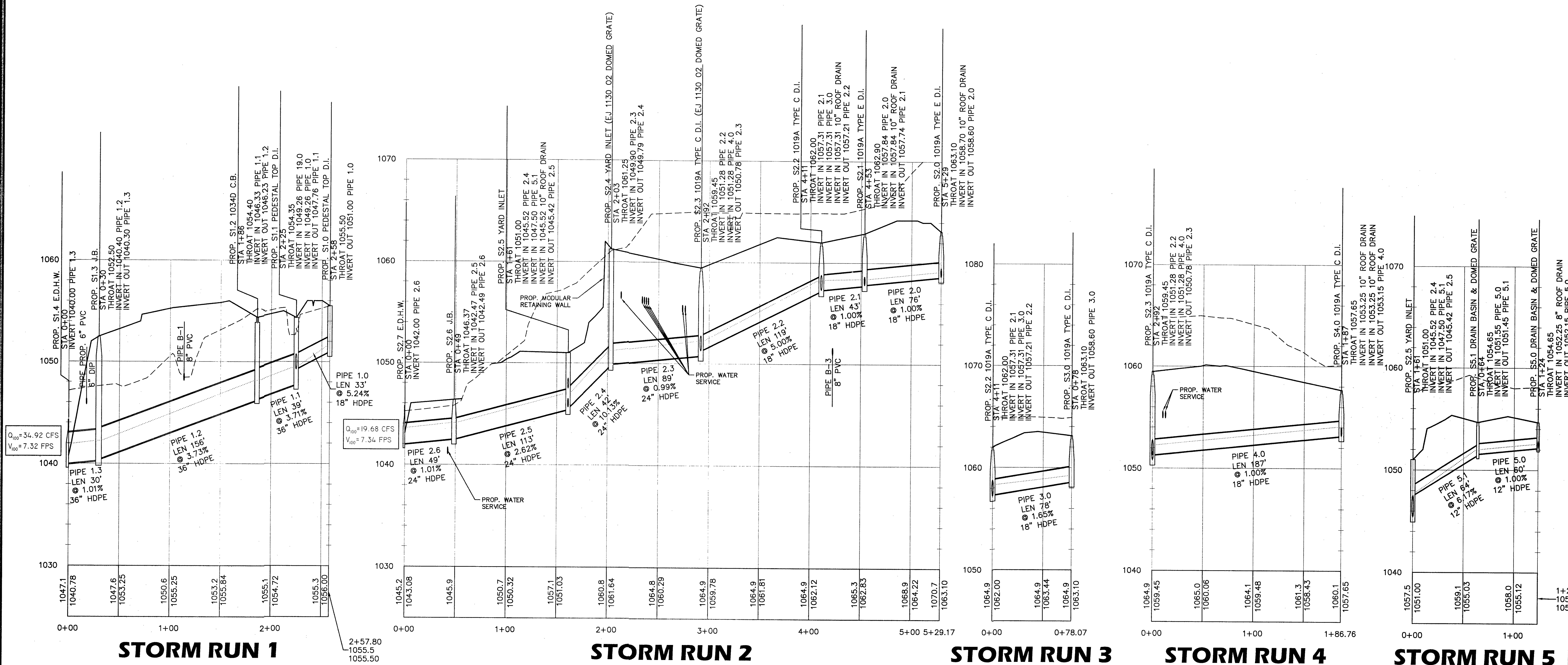
- ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
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- THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. CITY OF CARROLLTON, NOV. 2007

SPECIAL NOTES: (CARROLLTON STORM SEWERS)

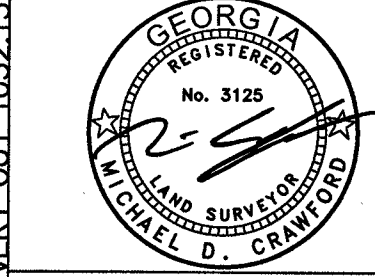
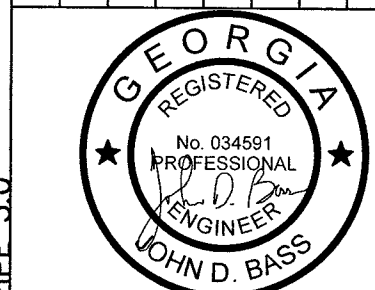
- FOR STRUCTURE TYPE, PIPE SIZES & INVERT ELEVATIONS SEE PROFILE SHEETS.
- ALL STORM DRAIN PIPE SHALL BE HDPE PER GADOT SPECIFICATION 845.
- ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030P FOR STRUCTURAL REQUIREMENTS.
- ALL DOWNSTREAM / DISCHARGE HEADWALLS TO BE ENERGY DISSIPATING HEADWALL UNLESS SPECIFIED OTHERWISE.

CONSTRUCTION NOTES

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- CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
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 - THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVICING UTILITY COMPANY.
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GEORGIA 811
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105 CORPORATE DRIVE
CARROLLTON, GA 30117
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TITLE: STORM SEWER PROFILES

501 LOVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

DATE: 02-08-2024
JOB NUMBER: 220607
DESIGNED BY: JDS
SCALE: 1" = 50'

C-2B.1

O:\PROJECT FOLDERS\2022\226807_HUGH GLIDEWELL-501 LOWVORN ROAD\DWG\226807_A.CONST.dwg, 2/9/2024 9:18:58 AM



OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

DRAINAGE NOTES:

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GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)

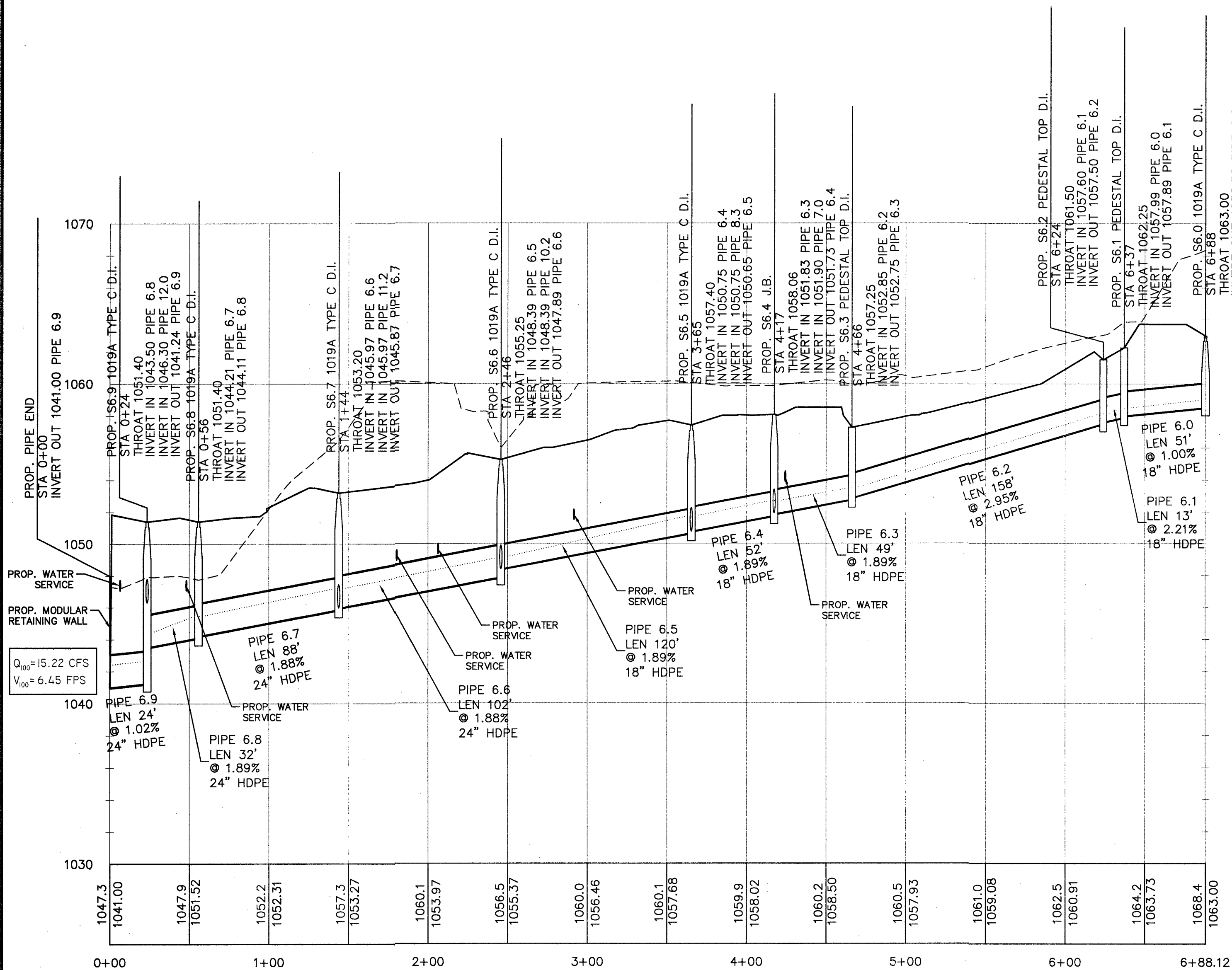
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SPECIAL NOTES: (CARROLLTON STORM SEWERS)

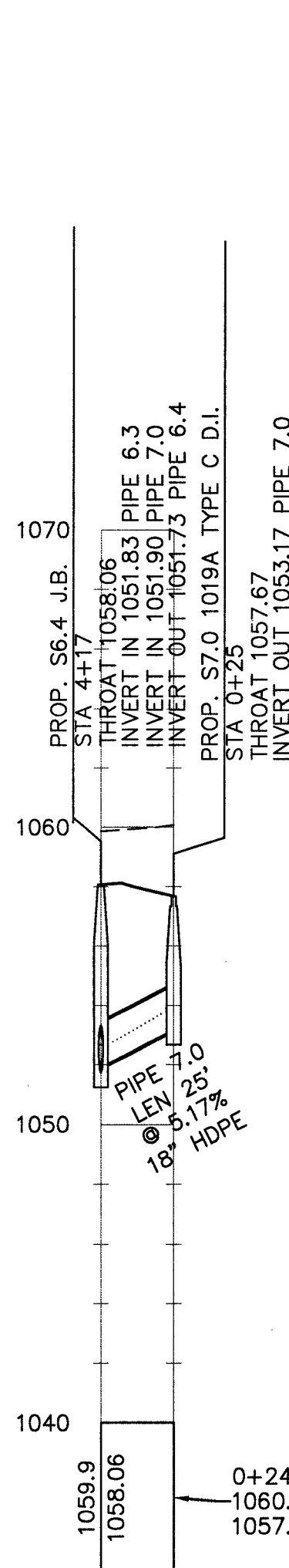
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- ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030P FOR STRUCTURAL REQUIREMENTS.
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CONSTRUCTION NOTES

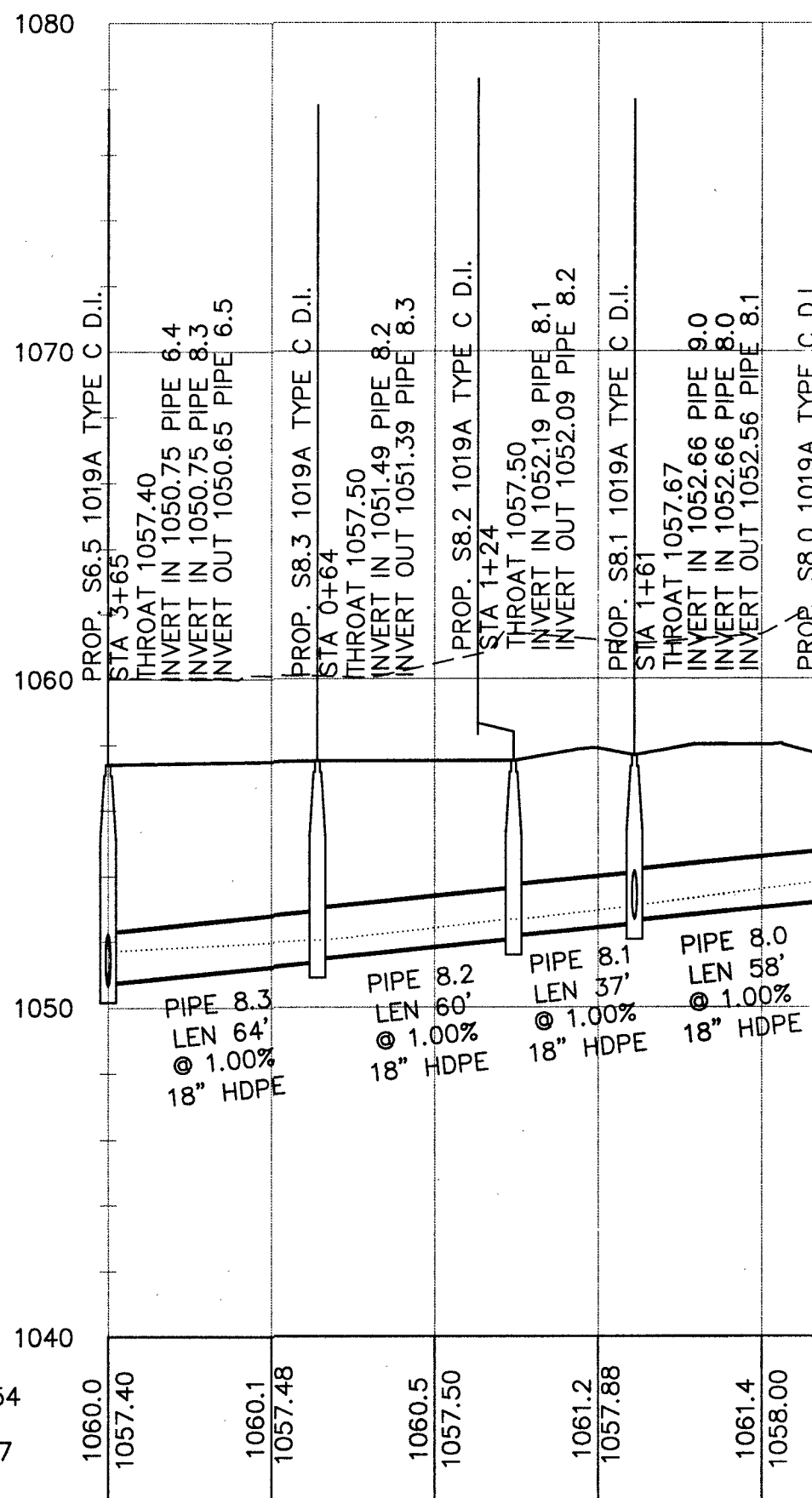
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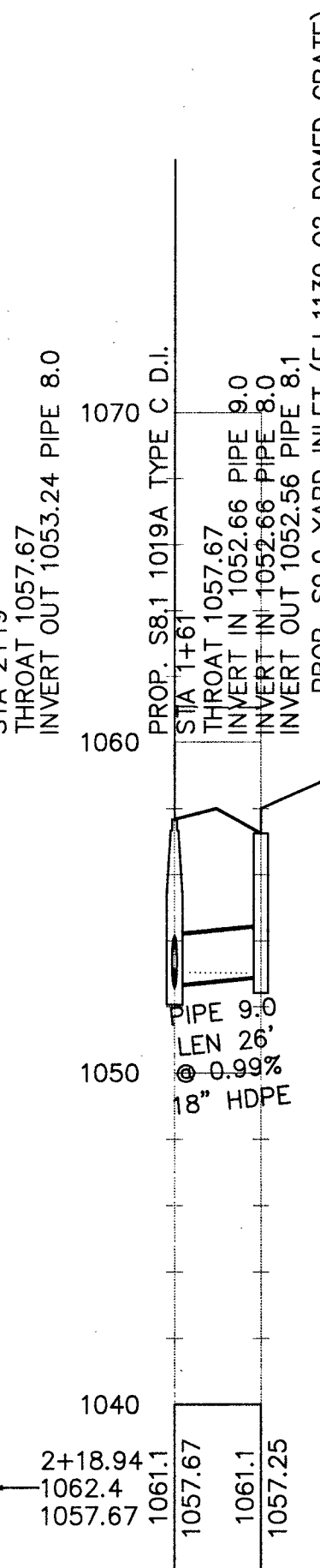
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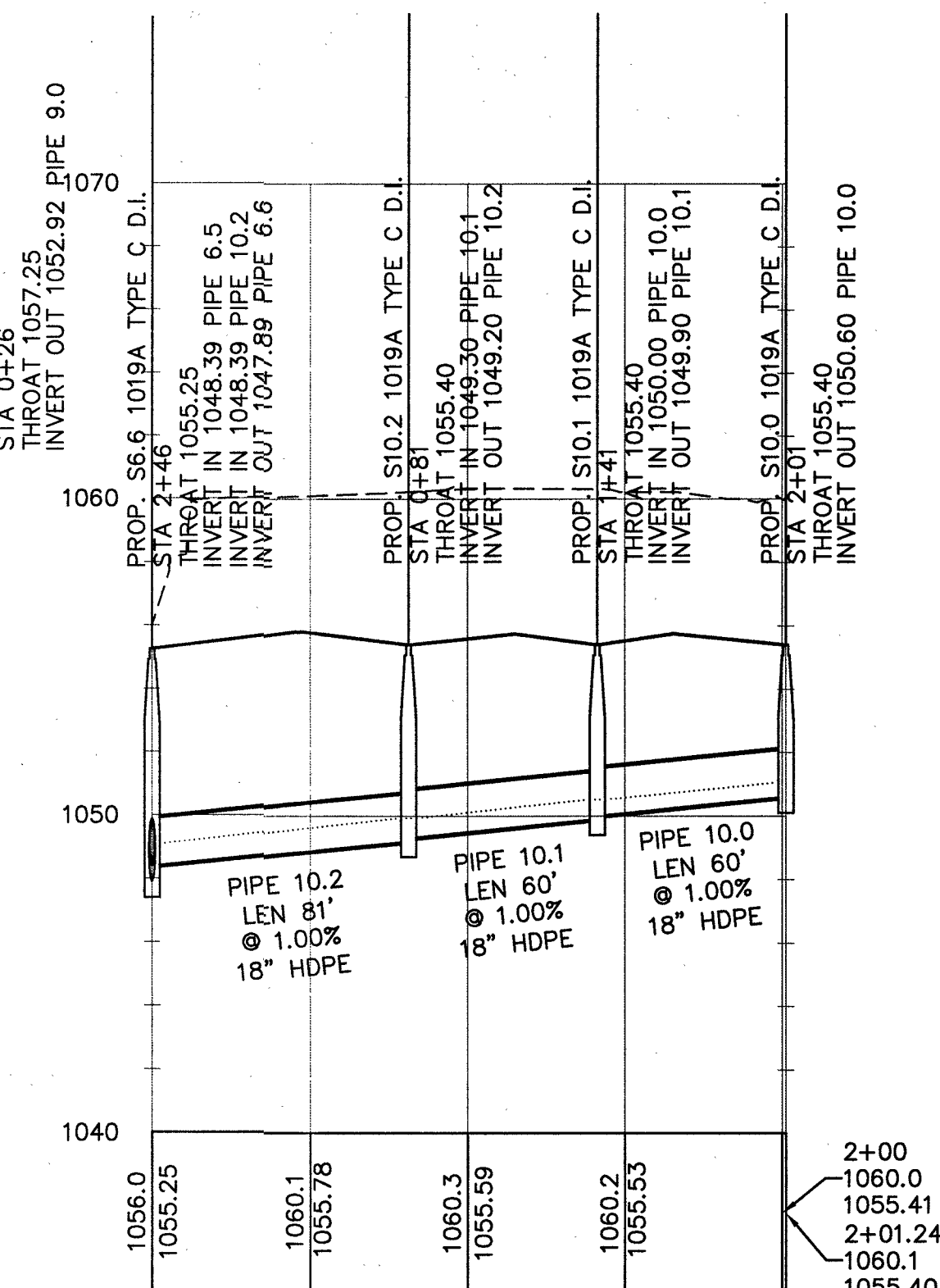
STORM RUN 7



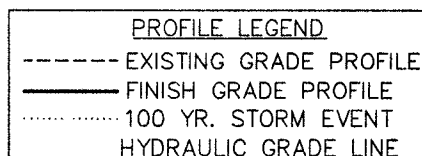
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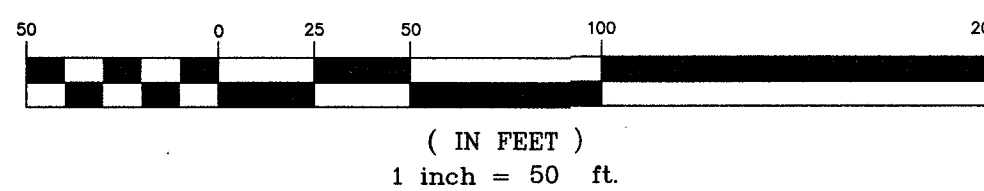
STORM RUN 9



STORM RUN 10



GRAPHIC SCALE



SCALE:
VERT: 1" = 5'
HORIZ: 1" = 50'

TITLE: STORM SEWER PROFILES

501 LOWVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

SCALE: 1" = 50'

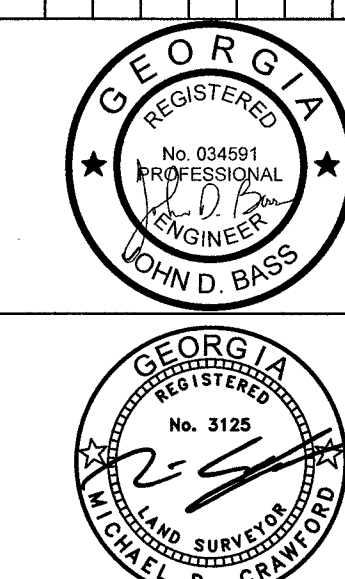
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DESIGNED BY: JDB

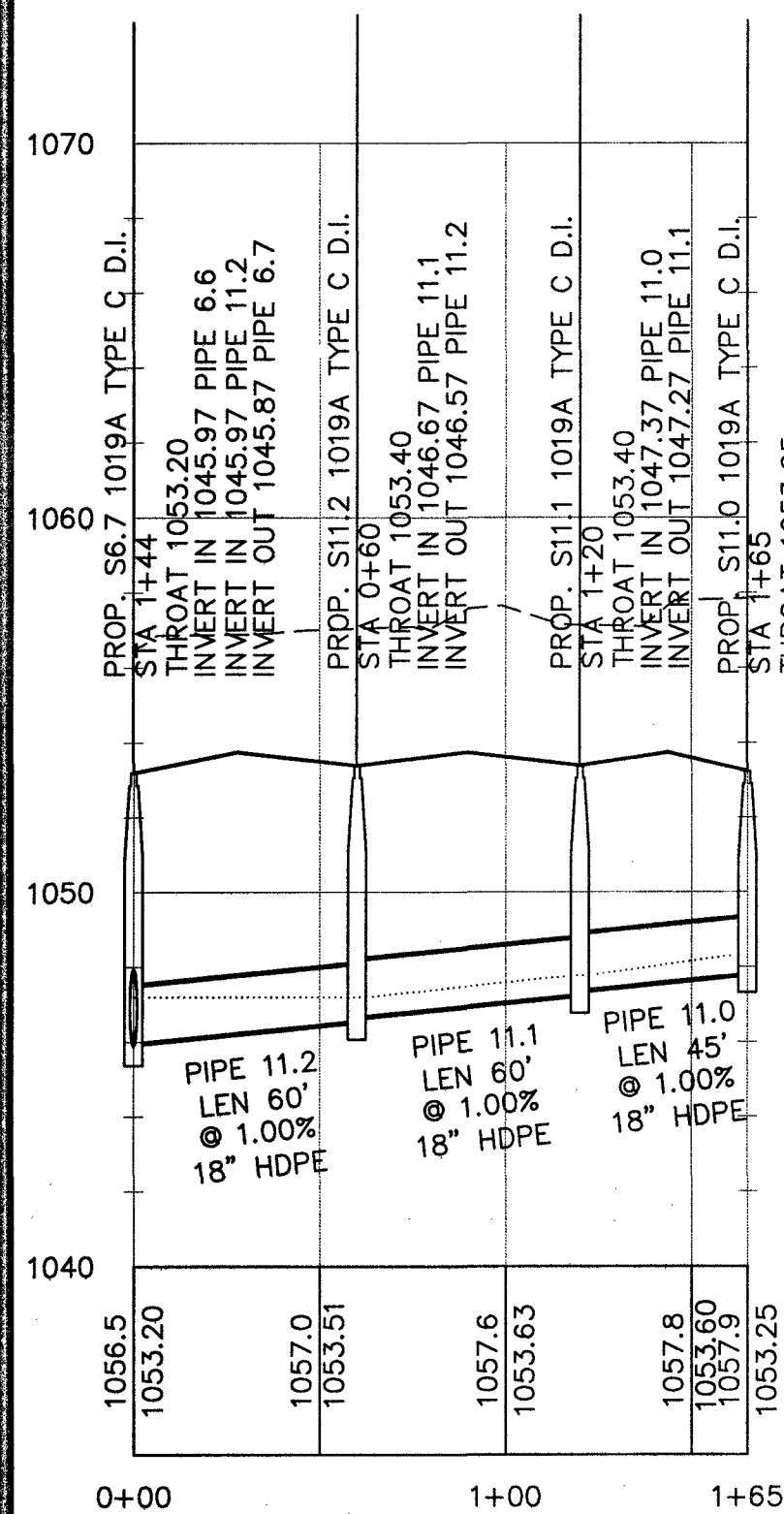
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GEORGIA & WEST, INC.
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105 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: mailto:georgiawest.com

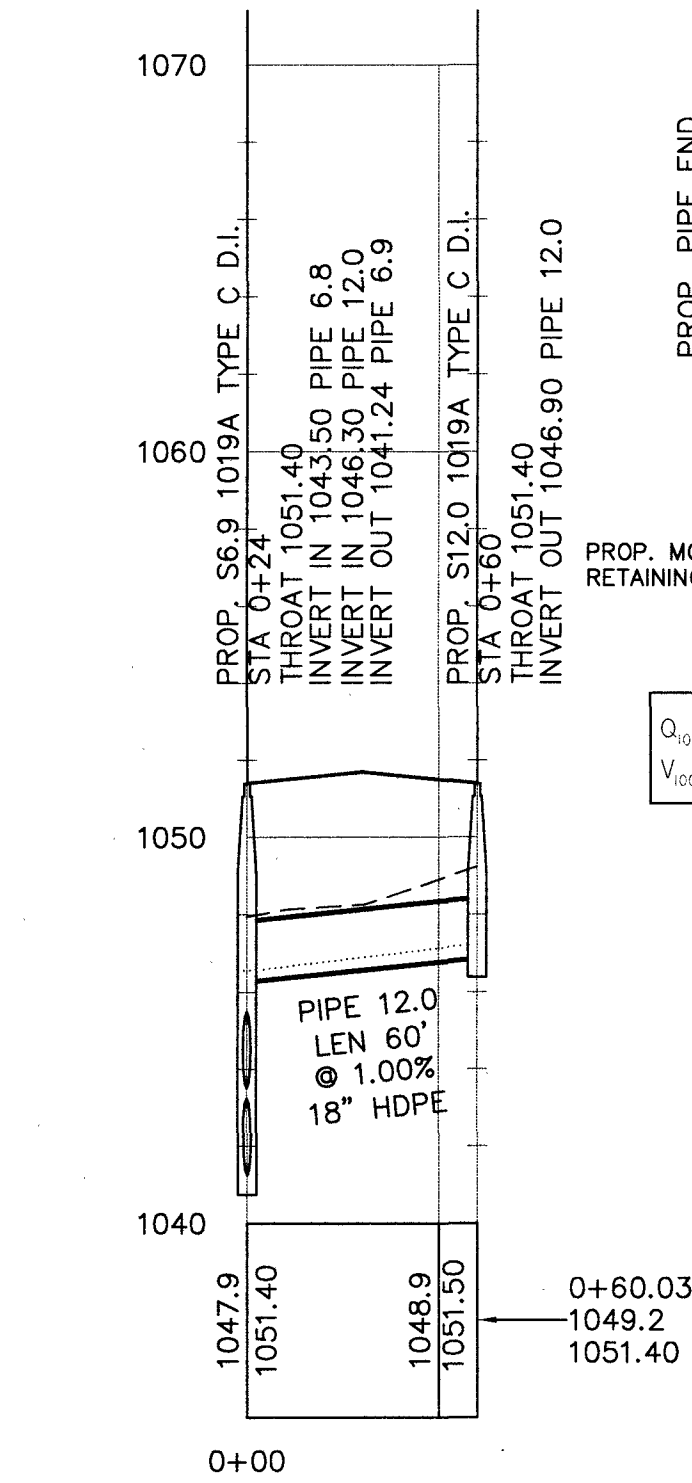


NO.	DATE	REVISION	DESCRIPTION

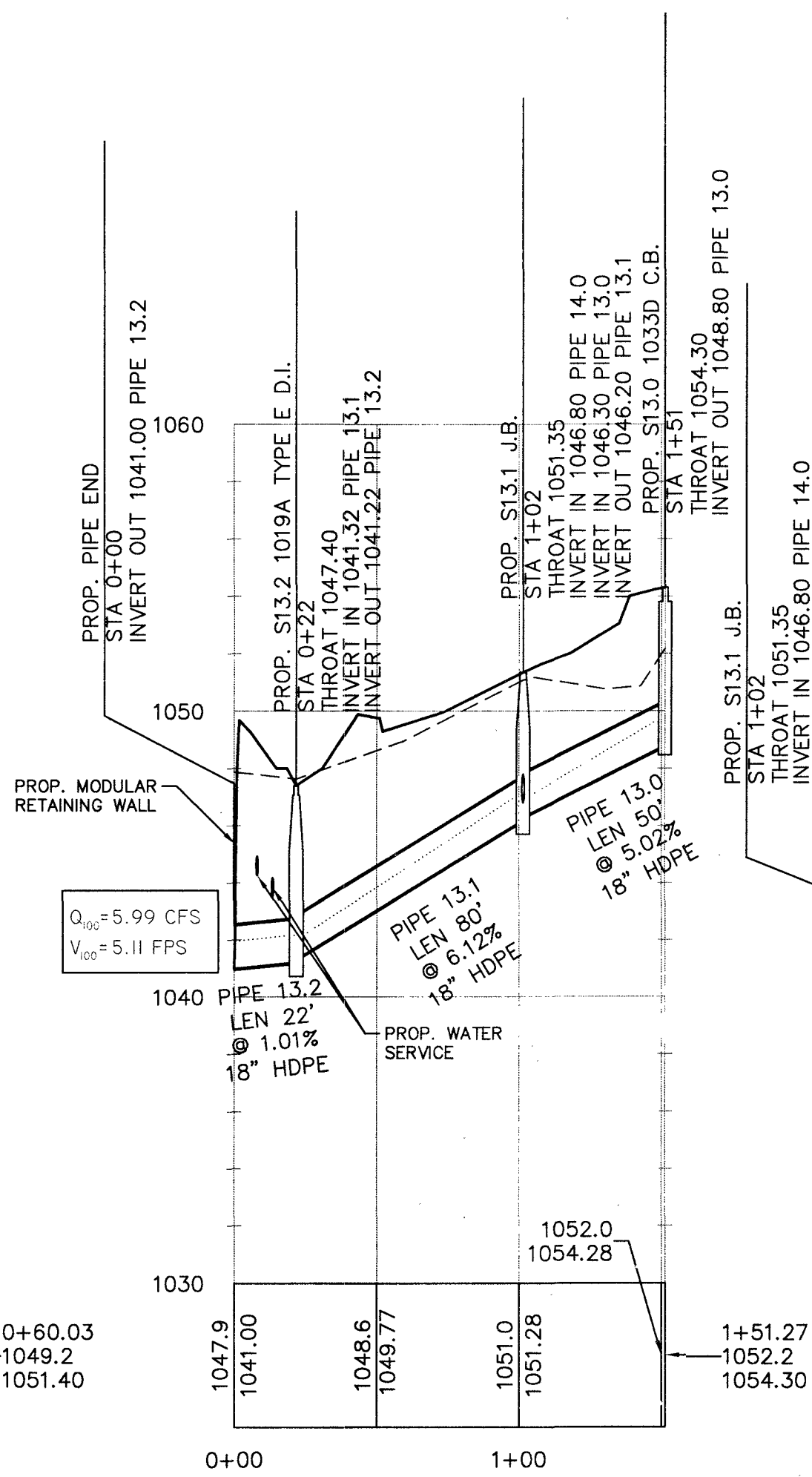
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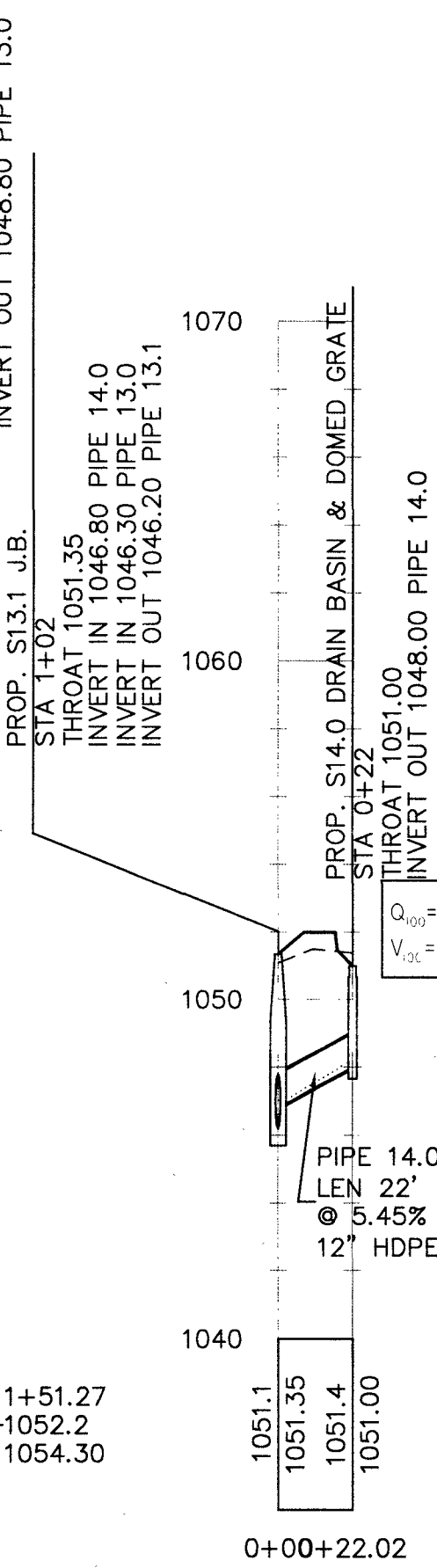
STORM RUN 11



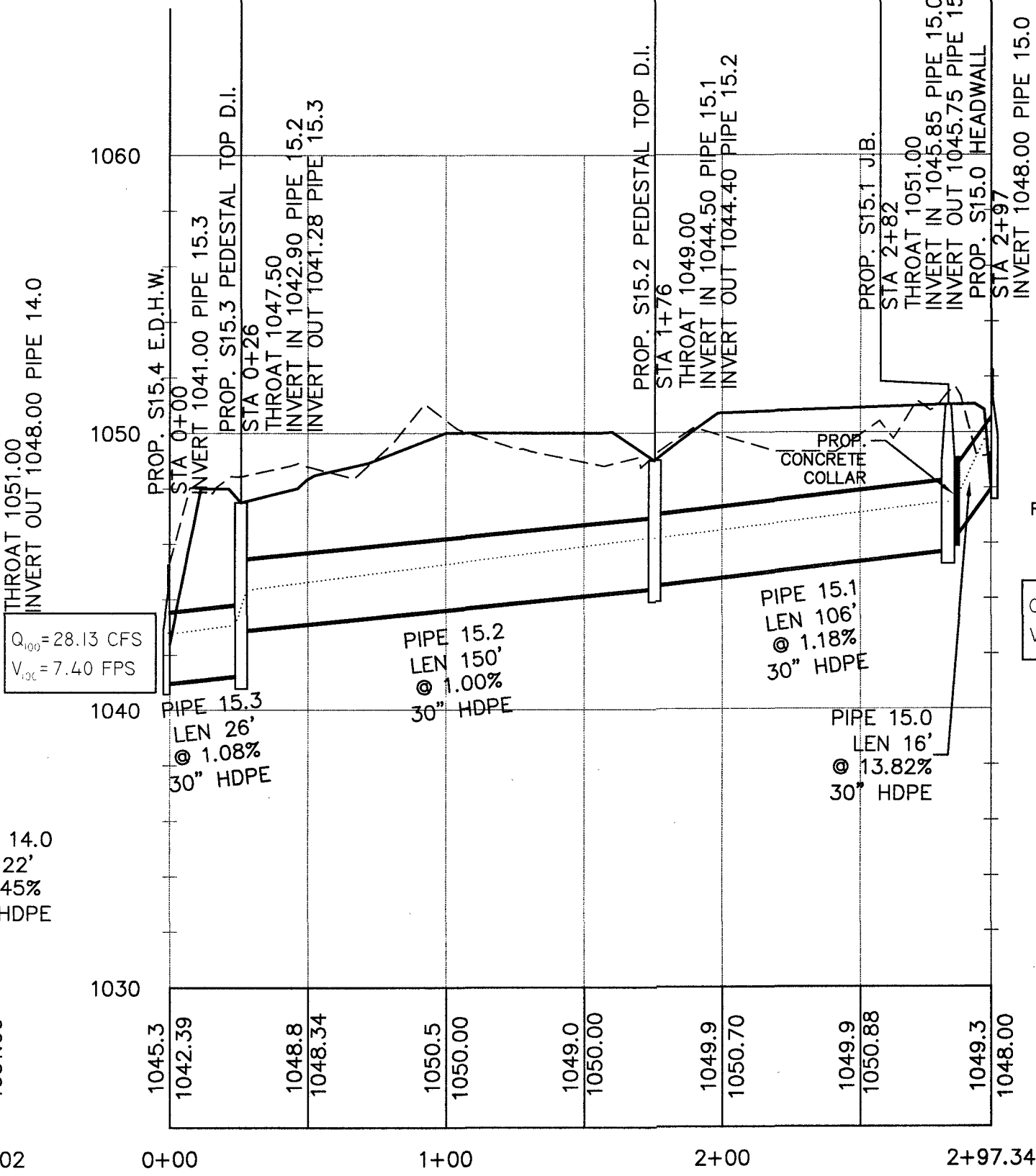
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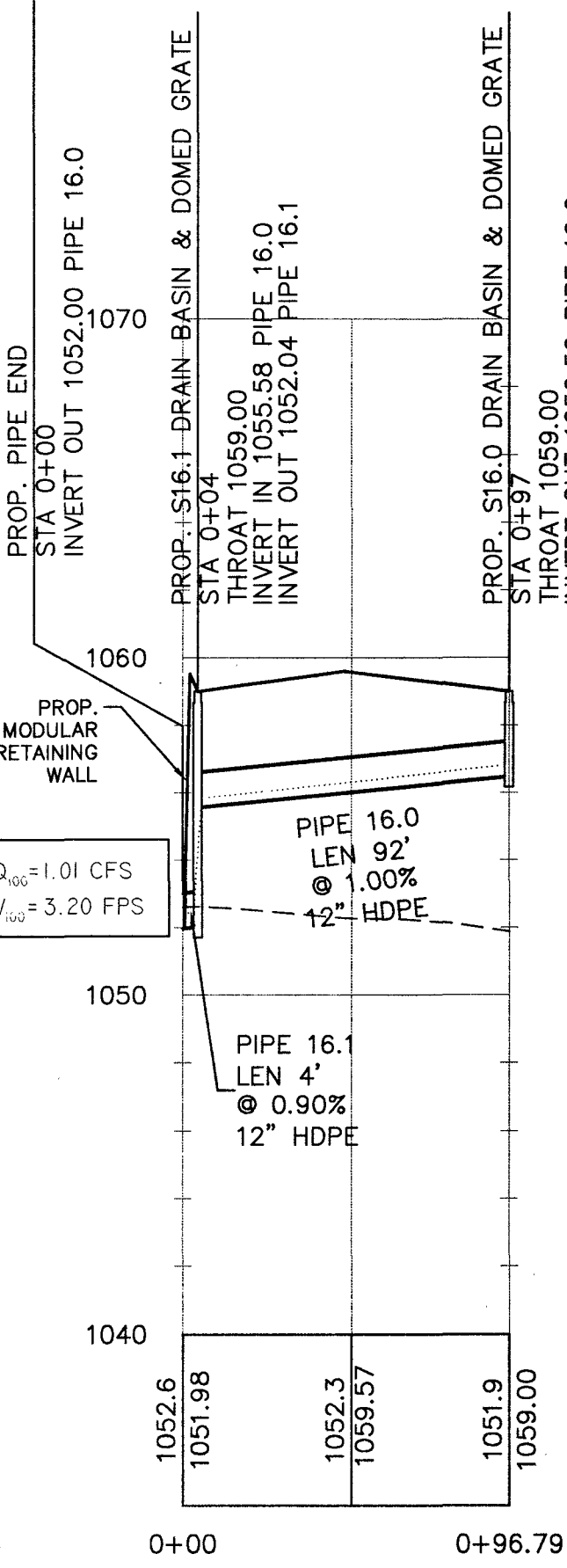
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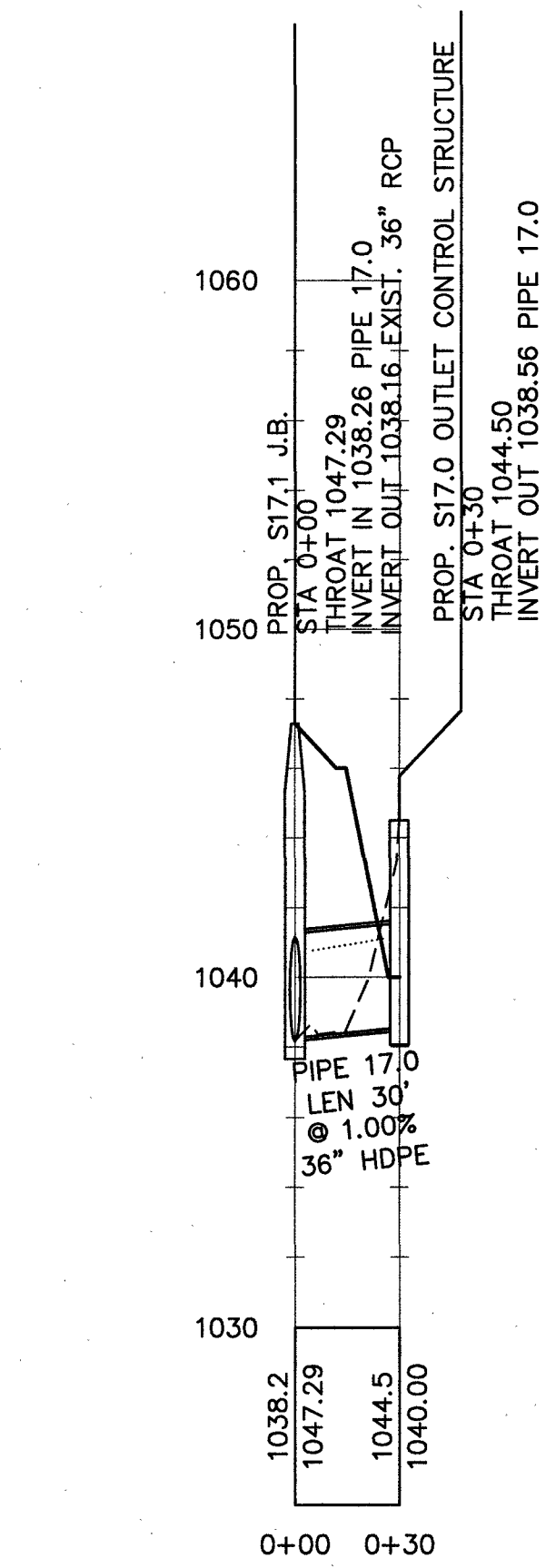
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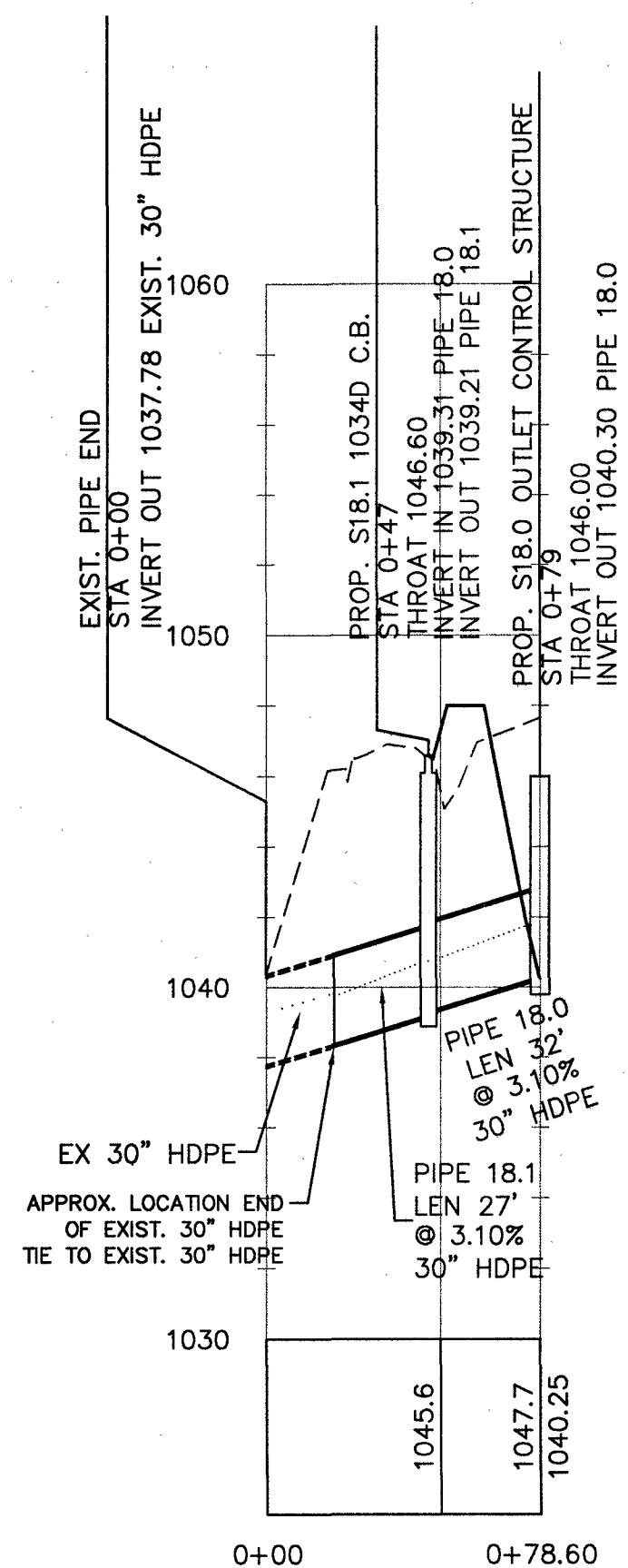
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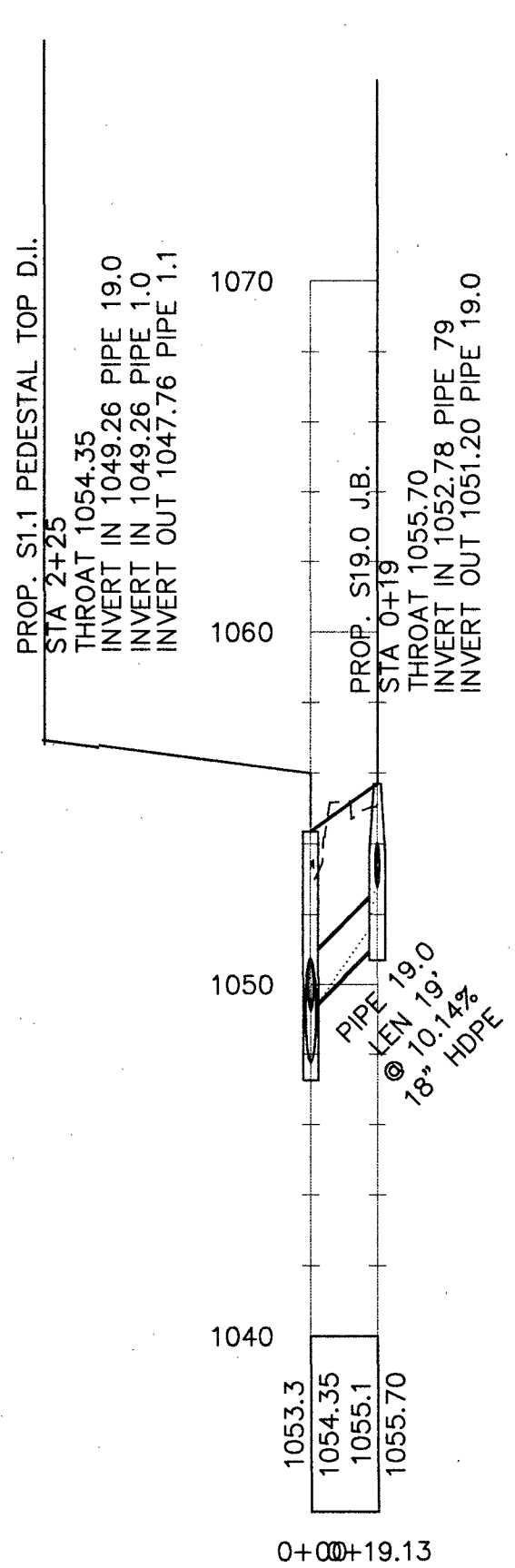
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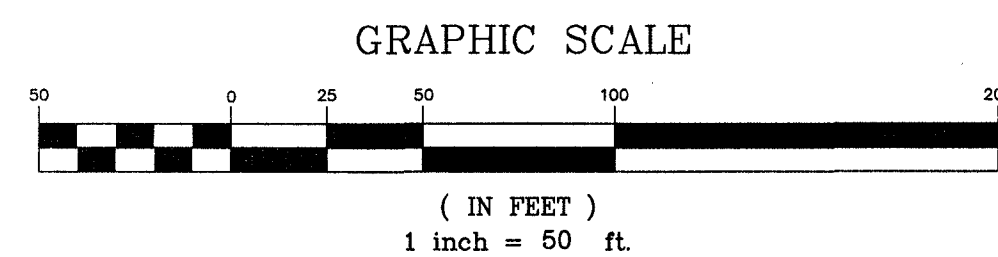
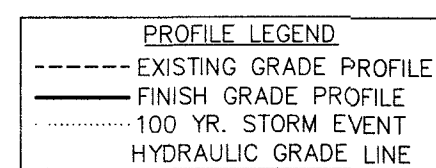
STORM RUN 17



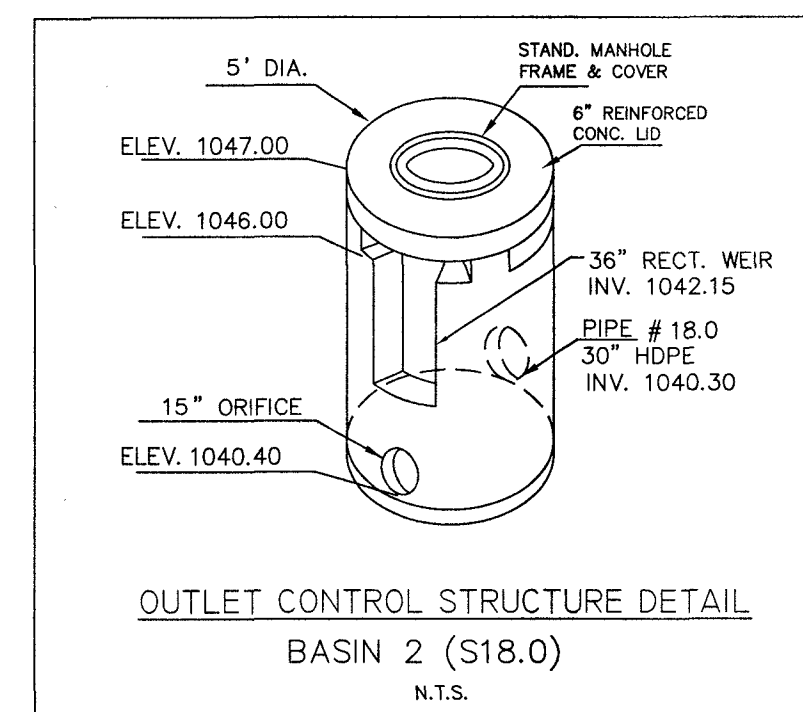
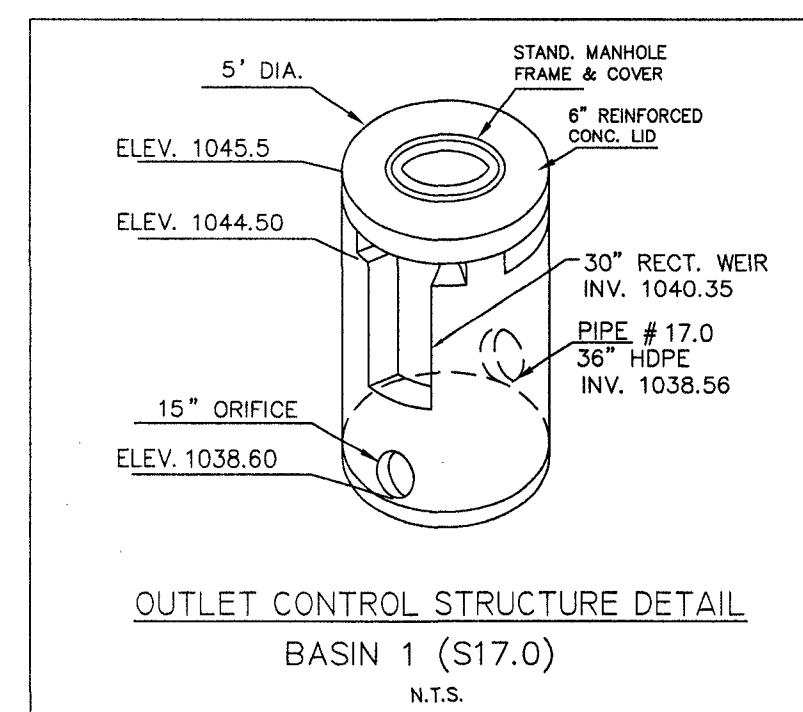
STORM RUN 18



STORM RUN 19



SCALE:
VERT: 1" = 5'
HORIZ: 1" = 50'



OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

SPECIAL NOTES: (CARROLLTON STORM SEWERS)

- FOR STRUCTURE TYPE, PIPE SIZES & INVERT ELEVATIONS SEE PROFILE SHEETS.
- ALL STORM DRAIN PIPE SHALL BE HDPE PER GADOT SPECIFICATION 845.
- ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030P FOR STRUCTURAL REQUIREMENTS.
- ALL DOWNSTREAM / DISCHARGE HEADWALLS TO BE ENERGY DISSIPATING HEADWALL UNLESS SPECIFIED OTHERWISE.

GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)

- ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
- "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
- ALL CONTRACTORS FOR GRADING, EROSION CONTROL AND STORMWATER SYSTEM CONSTRUCTION SHALL BE APPROVED BY THE CITY.
- CONTRACTORS HAVE THE RESPONSIBILITY TO COMPLY WITH EROSION CONTROL REQUIREMENTS OF THE LOCAL LAND DISTURBANCE PERMIT AND NPDES GENERAL PERMIT IF APPLICABLE.
- THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. CITY OF CARROLLTON, NOV. 2007

DRAINAGE NOTES:

- COORDINATION WITH BUILDING PLANS REQUIRED TO VERIFY BUILDING DOWNSPOUT PIPING DESIGN & DOWN SPOUT INVERT ELEVATIONS INTO STORM DRAINAGE STRUCTURES. NOTIFY PROJECT ENGINEER TO VERIFY DESIGN PRIOR TO COMMENCING CONSTRUCTION AND ORDERING OF STORM SEWER MATERIAL.
- SEE SHEET C-30.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.
- SEE SHEET C-28.3 FOR OUTLET CONTROL STRUCTURE DETAILS.
- GDOT 1019A TYPE C D.I. FRAME AND GRATES TO SIT ABOVE CONCRETE STRUCTURE TOP AND SHALL BE FLUSH WITH PAVEMENT. DO NOT RECESS FRAME AND GRATE INTO STRUCTURE TOP.
- YARD INLETS SHALL HAVE EJ 1130Z FRAME AND 1130 O2 GRATE OR APPROVED EQUAL.
- DRAIN BASINS & INLINE DRAINS SHALL HAVE NYLOPLAST 15" DUCTILE IRON DOMED GRATES OR APPROVED EQUAL.

CONSTRUCTION NOTES

- READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
- CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
- COMPACTION STANDARDS:
 - ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVICING UTILITY COMPANY.
- IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

STORM SEWER PROFILES
501 LOVORN ROAD
LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

DATE: 02-08-2024
JOB NUMBER: 220607
SCALE: 1" = 50'

DESIGNED BY: JDB

NO. DATE REVISIONS

GEORGIA REGISTERED PROFESSIONAL ENGINEER
JOHN D. BASS
No. 034591

GEORGIA REGISTERED LAND SURVEYOR
MICHAEL D. CRAWFORD
No. 3125

GEORGIA & WEST, INC.
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C-2B.3



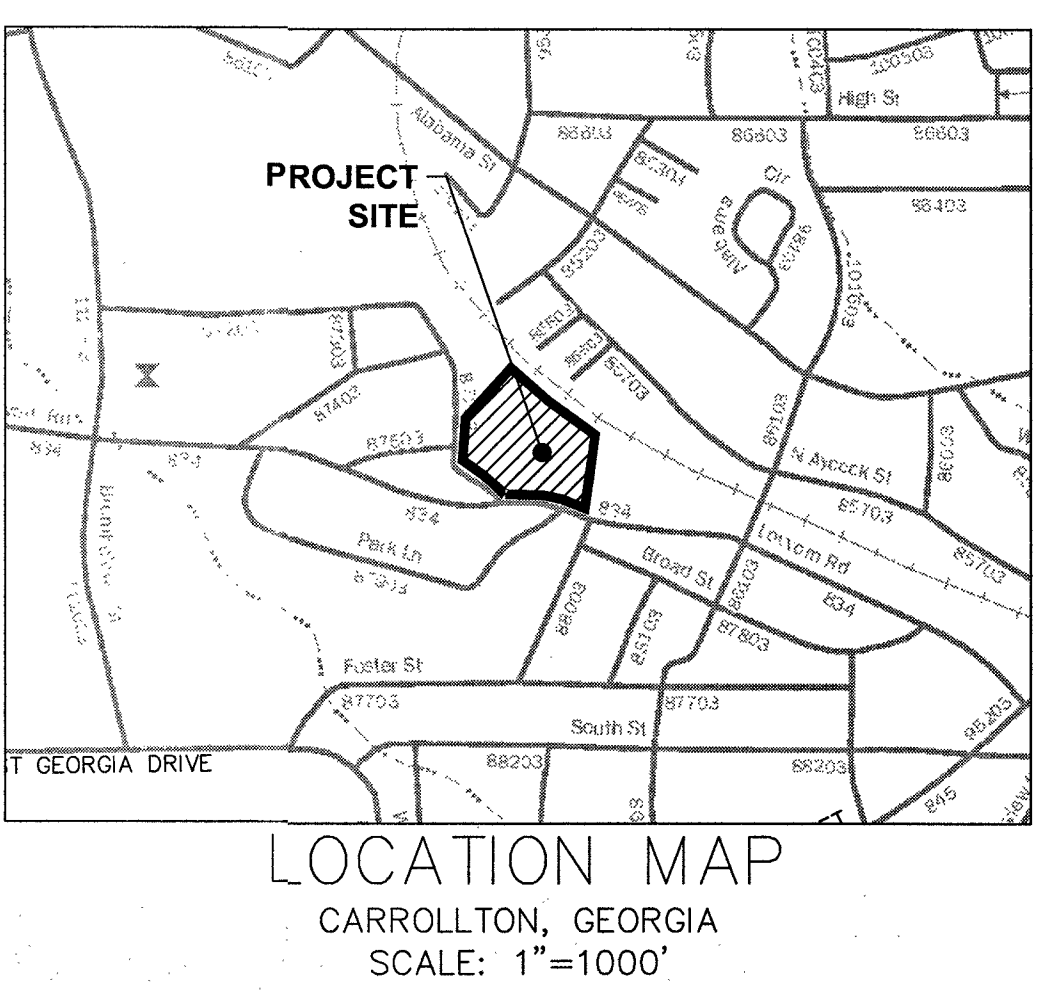
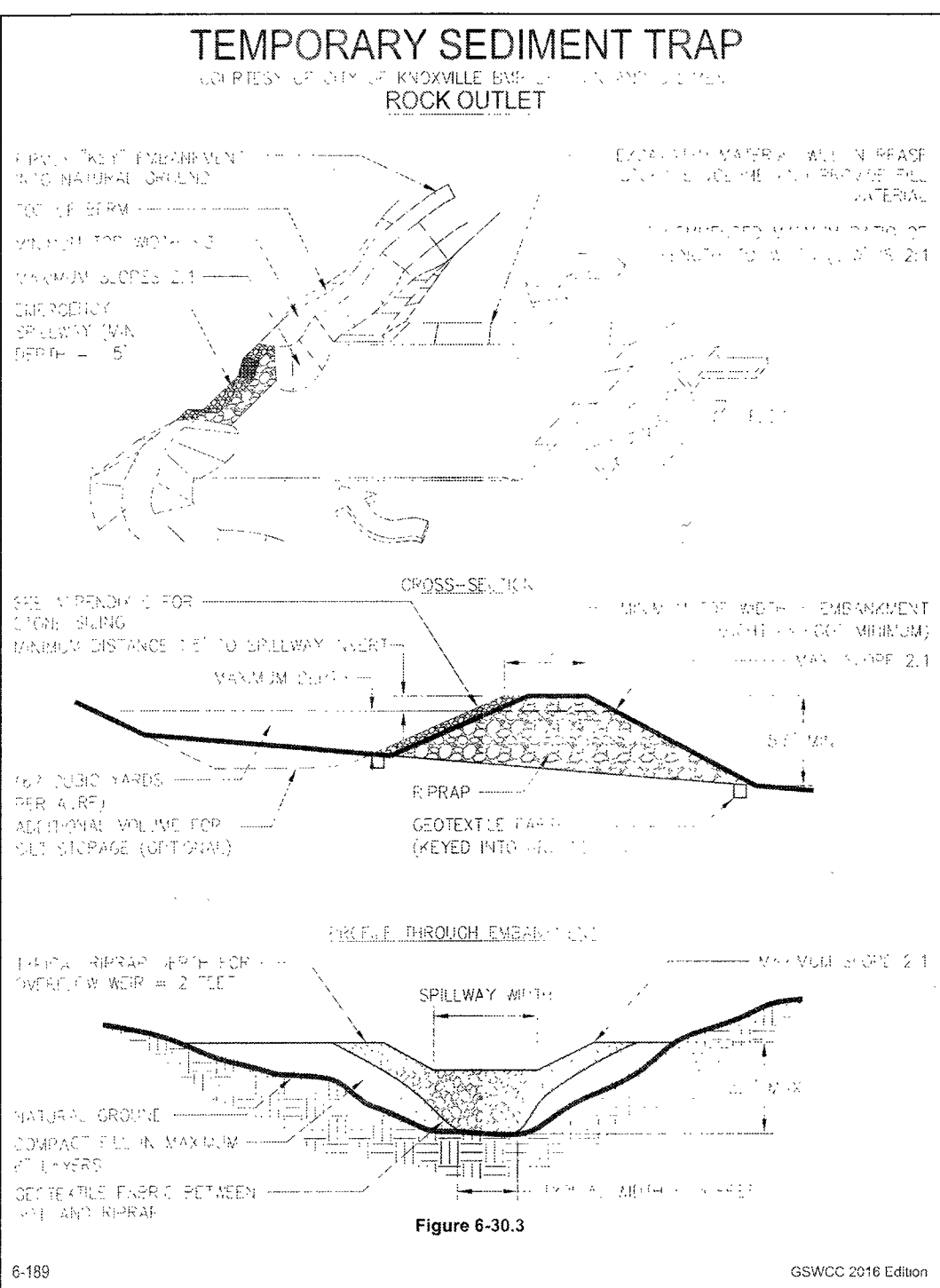
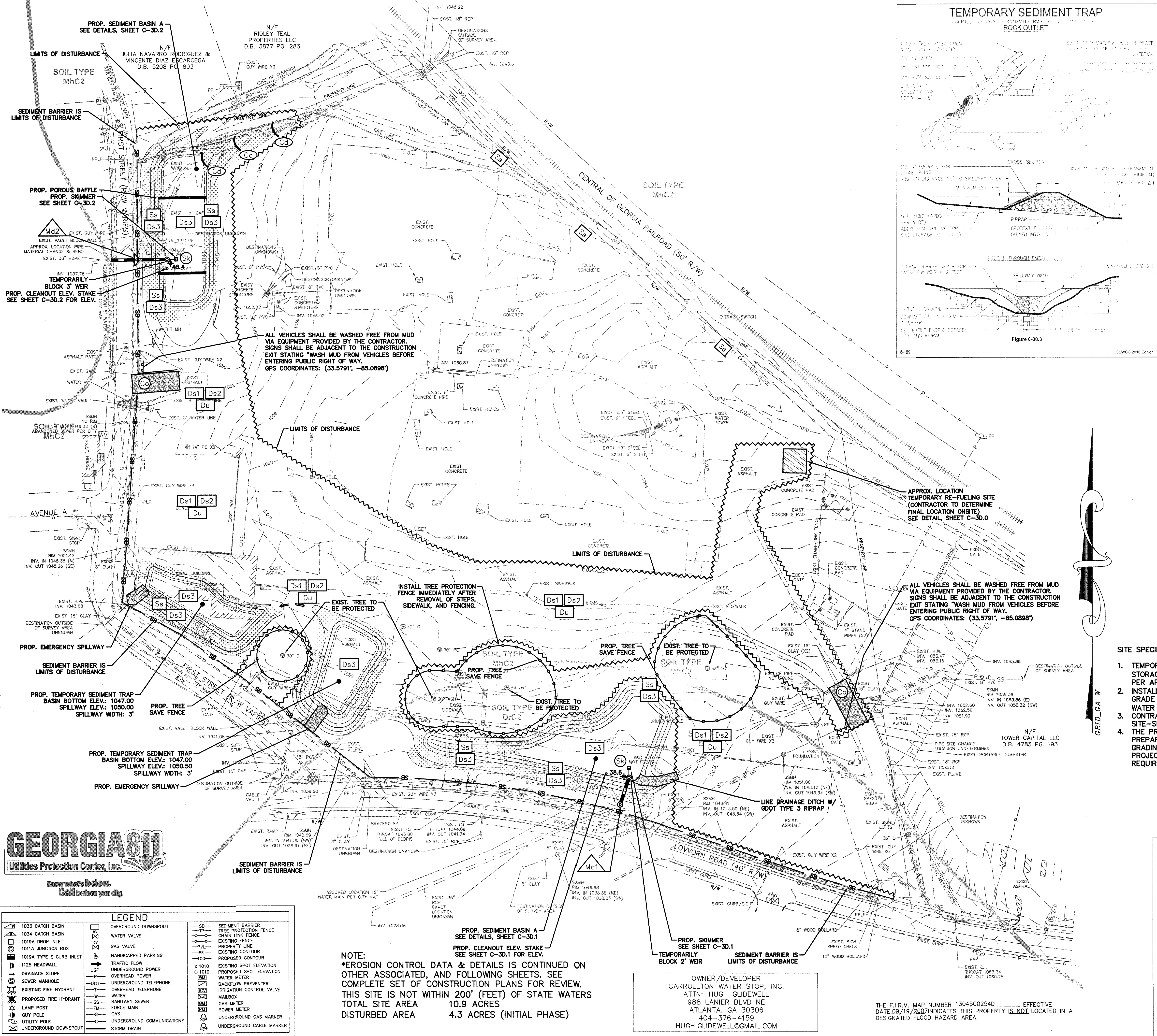
LEGEND			
	1033 CATCH BASIN		OVERGROUND DOWNSPOUT
	1034 CATCH BASIN		WATER VALVE
	1019A DROP INLET		GAS VALVE
	1019A JUNCTION BOX		HANDICAPPED PARKING
	1019A TYPE E CURB INLET		TRAFFIC FLOW
	1125 HEADWALL		UNDERGROUND POWER
	DRAINAGE SLOPE		OVERHEAD POWER
	SEWER MANHOLE		UNDERGROUND TELEPHONE
	EXISTING FIRE HYDRANT		OVERHEAD TELEPHONE
	PROPOSED FIRE HYDRANT		WATER
	LAMP POST		SANITARY SEWER
	GUY POLE		FORCE MAIN
	UTILITY POLE		GAS
	UNDERGROUND DOWNSPOUT		UNDERGROUND COMMUNICATIONS
			STORM DRAIN
			SEDIMENT BARRIER
			TREE PROTECTION FENCE
			CHAIN LINK FENCE
			EXISTING FENCE
			PROPERTY LINE
			EXISTING CONTOUR
			PROPOSED CONTOUR
			EXISTING SPOT ELEVATION
			PROPOSED SPOT ELEVATION
			WATER METER
			BACKFLOW PREVENTER
			IRRIGATION CONTROL VALVE
			MAILBOX
			GAS METER
			POWER METER
			FORCE MAIN
			UNDERGROUND CABLE MARKER

NOTE: *EROSION CONTROL DATA & DETAILS IS CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS NOT WITHIN 200' (FEET) OF STATE WATERS

TOTAL SITE AREA	10.9 ACRES
DISTURBED AREA	4.3 ACRES (INITIAL PHASE)

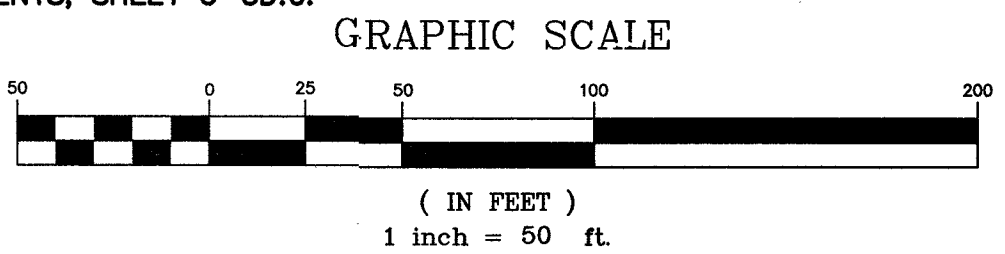
OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30308
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

THE F.I.R.M. MAP NUMBER 13045C0254D IS EFFECTIVE DATE 09/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.



- EROSION CONTROL NOTES:**
1. EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
 2. ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING. STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
 3. 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.
 4. EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
 5. SEDIMENT BARRIERS WILL BE PLACED AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS; ALSO BELOW ALL LOT DISTURBANCES WHERE EROSION RUN-OFF MIGHT LEAVE THE SITE.
 6. ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR INDIVIDUAL OUTLETS.
 7. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
 8. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 9. NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO \$50,000.00 DOLLARS PER DAY, PER VIOLATION.
 10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
 11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 12. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP'S) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
 13. ANY AMENDMENTS/REVISIONS TO THE ESCAPE PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 14. 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:
- NAME: HUGH GLIDEWELL
TELEPHONE #: 404-376-4159

- SITE SPECIFIC EROSION CONTROL NOTES:**
1. TEMPORARY SEDIMENT BASINS AND TRAPS ARE SIZED TO PROVIDE SEDIMENT STORAGE OF AT LEAST 3600 CUBIC FEET (134 CUBIC YARDS) PER ACRE DRAINED PER APPENDIX 1 REQUIREMENTS, SHEET C-30.0.
 2. INSTALL SOD FOR A MINIMUM 2'-0" FOOT MOTH (IN LIEU OF SEEDING) AFTER FINAL GRADE HAS BEEN ACHIEVED, ALONG THE PERIMETER WHEREVER STORM WATER (INCLUDING SHEET FLOW) MAY BE DISCHARGED TO ADJACENT AREAS.
 3. CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS PER APPENDIX 1 REQUIREMENTS, SHEET C-30.0.
 4. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLANS TO CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE OF THE PROJECT IN ACCORDANCE WITH PART IV.A.5 OF THE PERMIT PER APPENDIX 1 REQUIREMENTS, SHEET C-30.0.



- CONSTRUCTION NOTES**
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
 5. COMPACTION STANDARDS:
 - A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
 - B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 6. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
 7. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
JOHN D. BASS
No. 034591
EXPIRES: 09-29-2024

GEORGIA
REGISTERED
PROFESSIONAL
SURVEYOR
MICHAEL D. CRAWFORD
No. 3125
EXPIRES: 09-29-2024

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& WEST, INC.
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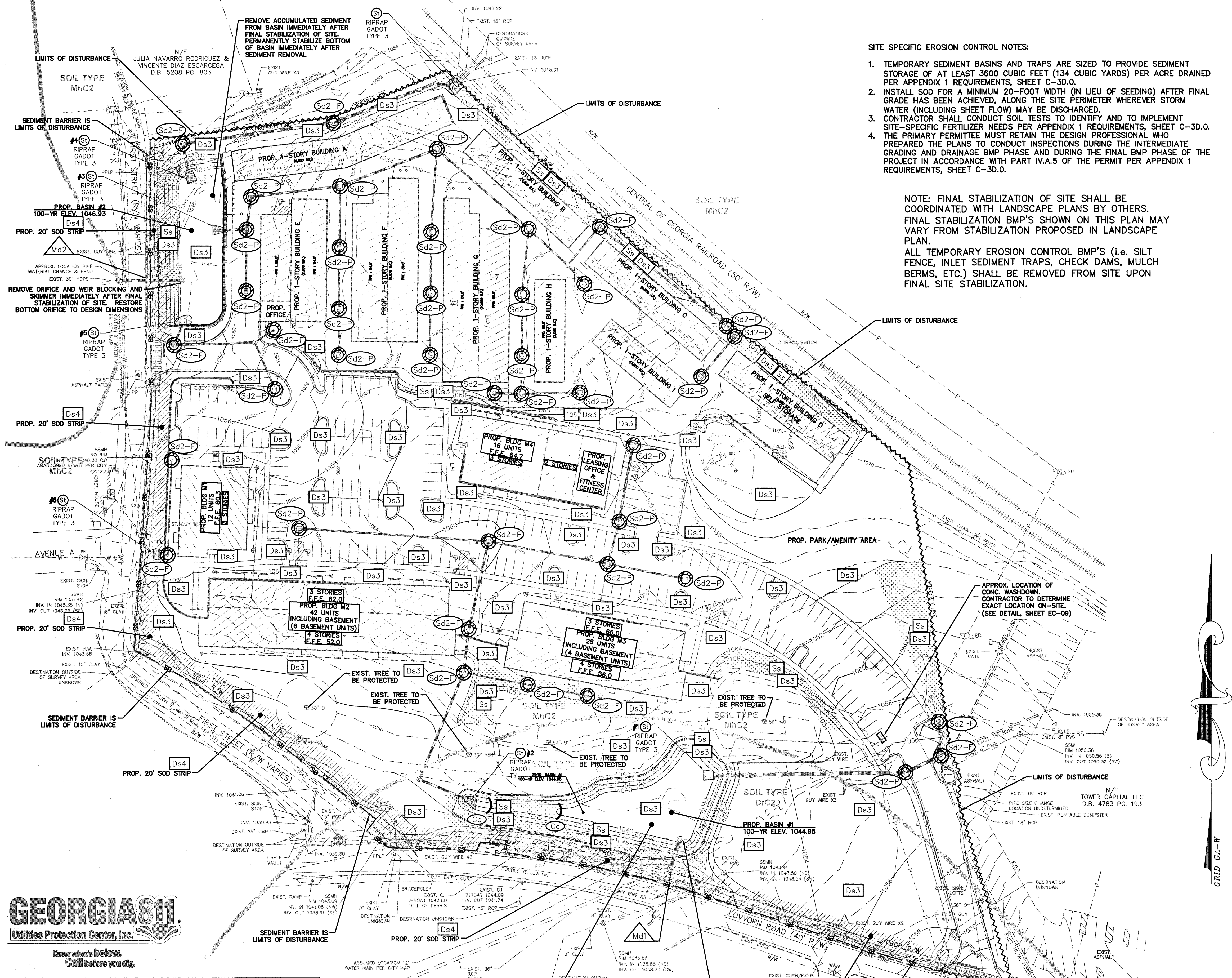
TITLE: INITIAL PHASE EROSION CONTROL PLAN
501 LOVORN ROAD
LOCATED IN LLC 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA
DATE: 02-08-2024
JOB NUMBER: 220607
DESIGNED BY: JDB
SCALE: 1" = 50'

C-3A.0

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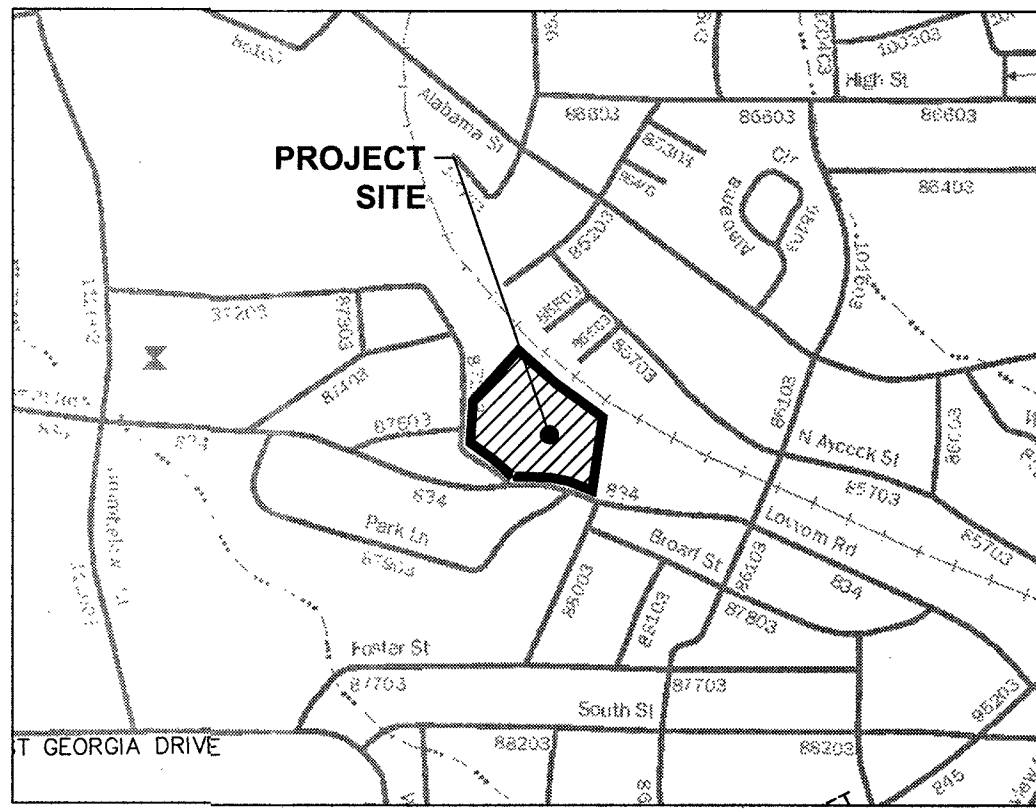
LEGEND			



SITE SPECIFIC EROSION CONTROL NOTES:

1. TEMPORARY SEDIMENT BASINS AND TRAPS ARE SIZED TO PROVIDE SEDIMENT STORAGE OF AT LEAST 3600 CUBIC FEET (134 CUBIC YARDS) PER ACRE DRAINED PER APPENDIX 1 REQUIREMENTS, SHEET C-30.0.
2. INSTALL SOD FOR A MINIMUM 20'-FOOT WIDTH (IN LIEU OF SEEDING) AFTER FINAL GRADE HAS BEEN ACHIEVED, ALONG THE SITE PERIMETER WHEREVER STORM WATER (INCLUDING SHEET FLOW) MAY BE DISCHARGED.
3. CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS PER APPENDIX 1 REQUIREMENTS, SHEET C-3D.0.
4. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLANS TO CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE OF THE PROJECT IN ACCORDANCE WITH PART IV.A.5 OF THE PERMIT PER APPENDIX 1 REQUIREMENTS, SHEET C-3D.0.

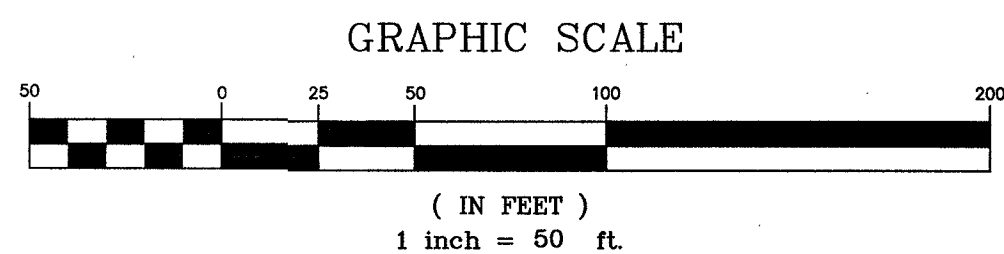
NOTE: FINAL STABILIZATION OF SITE SHALL BE COORDINATED WITH LANDSCAPE PLANS BY OTHERS. FINAL STABILIZATION BMP'S SHOWN ON THIS PLAN MAY VARY FROM STABILIZATION PROPOSED IN LANDSCAPE PLAN.
ALL TEMPORARY EROSION CONTROL BMP'S (I.E. SILT FENCE, INLET SEDIMENT TRAPS, CHECK DAMS, MULCH BERMS, ETC.) SHALL BE REMOVED FROM SITE UPON FINAL SITE STABILIZATION.



EROSION CONTROL NOTES:

1. EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
2. ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
3. STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
4. **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.**
5. EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
6. SEDIMENT BARRIERS WILL BE PLACED AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS; ALSO BELOW ALL LOT DISTURBANCES WHERE EROSION RUN-OFF MIGHT LEAVE THE SITE.
7. ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR DIMENSIONS OF RIPRAP FOR INDIVIDUAL OUTLETS.
8. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**
9. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
10. NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO \$50,000.00 DOLLARS PER DAY, PER VIOLATION!
11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
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14. ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
15. **24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:**

NAME: HUGH GLIDEWELL
TELEPHONE #: 404-376-4159



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 - 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
 5. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
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OWNER/DEVELOPER
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404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

THE F.I.R.M. MAP NUMBER 1304502540 EFFECTIVE DATE 08/19/2007 INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.

GEORGIA 811 & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: malboro@georgiawest.com
OFFICE (770) 834-4684
FAX (770) 834-1005

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FINAL PHASE EROSION CONTROL PLAN	501 LOVORN ROAD
LOCATED IN LL 127 DISTRICT 10	CITY OF CARROLLTON, GEORGIA
DATE: 02-08-2024	DESIGNED BY: JDB
SCALE: 1" = 50'	JOB NUMBER: 22697

C-3C.0



The diagram illustrates a stormwater outlet structure. It shows an inlet pipe at the top with diameter D_o and an outlet pipe at the bottom with diameter D_o . The structure is a trapezoidal box. The top width is L_a . The bottom width is $W_b = 3D_o$. The height of the structure is $W_s = D_o + L_a$. The outlet pipe is shown with a tailwater level indicated by a dashed line and the text "TAILWATER < 0.5D_o". Below the structure, there is a cross-section of a rip rap bed. The rip rap is shown as a layer of stones. The diagram includes a scale bar at the bottom left with the text "D = 1.5 x MAX. ROCK SIZE" and "D = 2.25 x d₅₀". At the bottom right, it says "RIP RAP - CA DOT STD 805".

STEEL POST

3 GAUGE MIN HIGH TENSILE WIRE STRAND SHALL BE SECURED TO POST TO SUPPORT BAFFLE MATERIAL

BRAIN STORAGE ELEVATION (SEE ELEVATION FOR ELEVATION)

4' MAX.

DRAPE BAFFLE MATERIAL OVER WIRE STRAND & SECURE WITH TIES AT POSTS & ON WIRE EVERY 12"

1" EXTEND 3 GAUGE WIRE TO BRAIN SIDE, ANCHOR WITH STAKE OR METAL T-POST TO ANCHOR BAFFLE TO SIDE OF BRAIN AND SECURE TO VERTICAL POST

MIN. 12"

MIN. 2" DEPTH

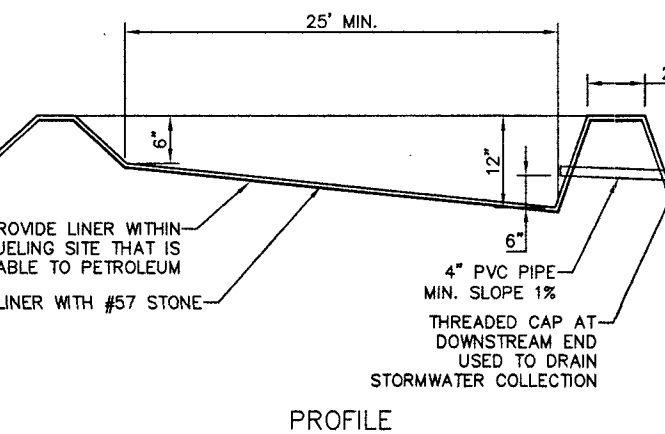
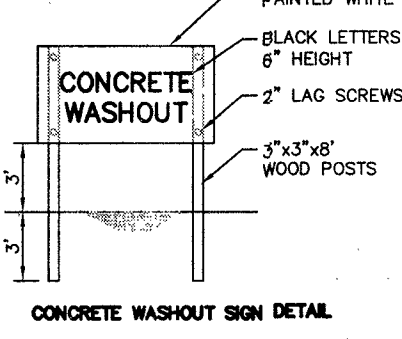
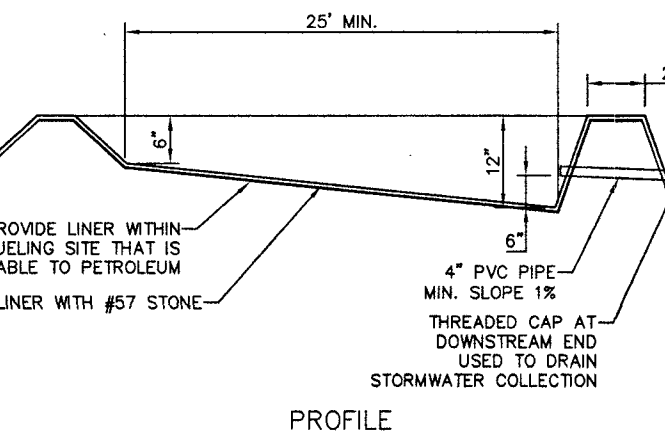
BAFFLE MATERIAL SHALL BE 1/4" COT CROSS BRASS OR EQUAL

BAFFLE MATERIAL SHALL BE CONTINUOUS FOR FULL BAFFLE LENGTH AND SHALL BE SPICED

SECURE BOTTOM OF BAFFLE TO GROUND WITH 11 GAUGE 12" STAKES AT 12" MAX. SPACING (BOTH SIDES)

POROUS BAFFLE DETAIL

N.T.S.

[illegible]

ESCP NOTICES: (CITY OF CARROLLTON)

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBANCE ACTIVITIES.
2. EROSION CONTROL MEASURES SHALL 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. ALL DISTURBED AREAS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER DISTURBANCE.
4. NOTIFY THE CITY AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. AN INSPECTOR WILL BE ASSIGNED AND A PRE-CONSTRUCTION MEETING HELD PRIOR TO COMMENCEMENT OF LAND DISTURBANCE.
5. EROSION CONTROL MEASURES AND POLLUTION CONTROL SHALL BE APPROVED BY THE CITY.
6. THE CONTRACTOR MUST NOTIFY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES.
7. EXPOSURE OF NATURAL GRADING AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.
8. CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM.
9. DEVELOPMENT PLANS SHALL CONFORM TO TOPOGRAPHY AND SOIL TYPE SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
11. DISTURBED AREAS AND THEIR EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
12. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
13. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
14. EXPOSED VEGETATION SHALL BE PROTECTED BY EROSION CONTROL MEASURES SUCH AS DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA HAS BEEN STABILIZED.
15. ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
16. CUTS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY.
17. FILLS SHALL NOT ENCROUGH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER THAT WOULD ADVERSELY AFFECT OTHER PROPERTY OWNERS.
18. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE. FEASIBILITY SHALL BE DETERMINED BY THE CITY, AND SUCH DETERMINATION IS FINAL.
19. TEMPORARY STREAM CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
20. STREAM CROSSINGS SHALL BE KEPT TO A MINIMUM.
21. TEMPORARY STREAM CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
22. ADEQUATE SEDIMENTATION AND CONTROL FACILITIES SHALL BE PROVIDED FOR TREATING AND/OR CONTROLLING OF ANY AND ALL SEDIMENT SOURCES SUCH THAT SEDIMENTS ARE RETAINED ONSITE AND PRECLUDED FROM DISCHARGED TO WATERS OF THE STATE.
23. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ANY STATE WATERS (AS MEASURED FROM THE CENTER OF THE CHANNEL WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION) UNLESS A FORMAL WAIVER HAS BEEN GRANTED BY THE CITY.
24. WHERE THE CITY GRANTS A WAIVER, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER STATE BUFFER WITHOUT FURTHER WAIVER OF THE CITY.
25. EXCEPT AS PROVIDED ABOVE FOR REQUIRED BUFFERS, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN BUFFERS AND ALL BUFFERS SHALL REMAIN IN THEIR NATURAL, UNDISTURBED STATE OF VEGETATION.
26. BUFFERS MAY BE THINNED OR TRIMMED OF VEGETATION BETWEEN THE TIME OF FINAL SITE STABILIZATION AND SUBMITTAL OF THE NOTICE OF TERMINATION. A PROTECTED VEGETATIVE COVER MUST BE MAINTAINED TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAMBED.

CITY OF CARROLLTON, NOV. 2007

C-36.1	☒	28	Clearly note that statement that "Trace materials shall not be discharged to waters of the State, except as authorized by a Section 406 permit."
C-36.0	☒	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to site disturbing activities."
C-36.2	☒	20	Clearly note statement that "Erosion control measures will be maintained at all times. If LULU implementation of the approved Plan does not provide for effective erosion control, non-erosion related sediment and erosion control measures that are implemented to control soil from the sediment source."
C-36.0	☒	21	Clearly note the statement: "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
C-36.0	☒	22	Any construction activity which discharges storm water into an Impaired Stream Segment or within 1 linear mile upstream of and within the same watershed as any portion of a water impaired Stream Segment or an Intermittent Stream Segment shall be controlled, as the completed Appendix A, along all the BMPs. There shall be no direct or indirect loss of the site which discharges to the Impaired Stream Segment."
C-36.0	☒	23	1. Is the TMDL implementation Plan for sediment has been reviewed for the Impaired Stream Segment identified in Item 22 above) all less than six months prior to submittal of NOLA. The E&PCP Plans must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
C-36.CD	☒	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the end of the vehicles. Without the drum at the construction site is prohibited."
C-36.CORE.0.1	☒	25	Provide BMPs for the remediation of all petroleum spills and leaks.
C-36.0	☒	26	Description of the measures that will be implemented during the construction process to control polynuclear in storm water that will occur after construction operations have been completed."
C-36.1	☒	27	Description of practices to provide cover for building materials and building products on site."
C-36.0	☒	28	Description of the practices that will be used to reduce the pollutants in storm water discharges."
C-36.0	☒	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portion of the site. Include a description of the erosion control, BMPs, seeding and grading activities, excavation activities, utility activities, temporary and final stabilization."
C-36.0.1	☒	30	Provide complete requirements of Inspections and record keeping by the primary permittee."
C-36.1	☒	31	Provide complete requirements of Record Keeping and Reporting of sampling results."
C-36.0	☒	32	Provide complete details for Retention of Records as per Part IV.F. of the permit."
C-36.1	☒	33	Description of analytical methods in used to collect and analyze the samples from each location."
C-36.0	☒	34	Appendix B rationale for NTU values in all outfall sampling points where applicable."
C-36.A.C	☒	35	Denial of all sampling locations: perennial and intermittent streams and other water bodies into which storm water is discharged."
C-36.0	☒	36	Description of appropriate controls and measures that will be implemented at the construction site including: 1) initial sediment storage requirements and perimeter control BMPs, 2) intermediate grading and drainage BMPs, and 3) final BMPs. For construction sites where there will be no mass grading and the final perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may consist of all the BMPs into a single phase."

C-3-A-B,C	N		28 Erosion slope and North arrow.						
C-3-A-B,C,D	Y		29 Elevation and proposed contour lines with contour lines drawn at an interval in accordance with the following:						
			<table border="0"> <thead> <tr> <th>Flat or larger size</th> <th>Ground Slope</th> <th>Contour intervals, ft.</th> </tr> </thead> <tbody> <tr> <td>1 inch = 100 ft or larger size</td> <td>Fall or > 2% Rolling 2 - 8% Steep 8% +</td> <td>5 or less 1 or 2 2.5 or more</td> </tr> </tbody> </table>	Flat or larger size	Ground Slope	Contour intervals, ft.	1 inch = 100 ft or larger size	Fall or > 2% Rolling 2 - 8% Steep 8% +	5 or less 1 or 2 2.5 or more
Flat or larger size	Ground Slope	Contour intervals, ft.							
1 inch = 100 ft or larger size	Fall or > 2% Rolling 2 - 8% Steep 8% +	5 or less 1 or 2 2.5 or more							
N/A	N		30 Use of alternative BMP whose performance has been documented to be equivalent to superior to conventional BMPs as certified by a Design Professional (unless disapproved by GABPO or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gawc.georgia.gov						
N/A	N		31 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.						
			32 Determination of the applicable 25-foot or 30-foot undisturbed surface adjacent to water features and any additional buffer required by the Local hosting Authority. Clearly identify and delineate all areas of impact.						
N/A	N		33 Delineation of on-site wetlands and all water bodies located on and within 200 feet of the project site						
C-3-A-B,C	Y		34 Delineation and avoidance of contributing drainage basins on the project site.						
C-3-D-0	Y	*	35 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *						
C-3-E-1	Y		36 An estimate of the runoff magnitude and peak discharge flow of the site prior to and after construction activities are completed.						
C-3-D-0	Y		37 Storm-drain pipe and vent velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Identify all storm water discharge points.						
C-3-A-B,C,D	Y		38 Soil series for the project site and their delimitation.						
C-3-A-B,C	Y		39 The limits of disturbance for each phase of construction.						
C-3-A-B,C,D,D,Y	Y		40 Provide a minimum of 6 cubic yards of sediment storage per acre drained using a temporary sedimentation basin. Determine sediment yield and peak discharge rates for each common drainage location. Compute storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not attainable. If outlet structures that will discharge from the surface are not attainable must also be given. Worksheets from the Manual included for structural BMP's and all calculations used by the design design professional to obtain the required sediment when utilizing equivalent controls. When discharging from streams beds and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining the decision must be included in the Plan.						
C-3-A-B,C	Y		41 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual. Chapter 3, with legend						
C-D-3-0	Y		42 Provide detailed specifications for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia						
C-3-A-B,C,C-D-3-0	Y		43 Provide verifiable plant, either all nonnative and noninvasive vegetative materials, include species, quantity, source, and planting schedule.						

[illegible]

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

CONSIDERATIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. TEMPORARY METHODS:

Mulches. Two standard Ds - D: disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tp-Tackifiers and Binders. Resins such as Carosol or Fernacast may be used according to manufacturer's recommendations.

Vegetative Cover. See standard D1d2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on truck soils). Keep traffic off these areas. Refer to standard Tp-Tackifiers and binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring control harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid barriers (wood fences, barbed fences, straw bales, bales of hay and similar material) can be used to control air currents and sand blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calumna Colombita Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS:

Permanent Vegetation. See standard Dd2 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection in wet areas.

Topsoiling. This entails covering the surface with less erodible soil material. See standard Tp - Topsoiling.

Stones. Cover surface with crushed stone or coarse gravel. See standard Cr-Construction Road Stabilization.

Du

**DUST CONTROL ON
DISTURBED AREAS**

GA **GEORGIA
& WEST, INC.**
ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA. 30117
E-MAIL: mailboxes@georgiawest.com

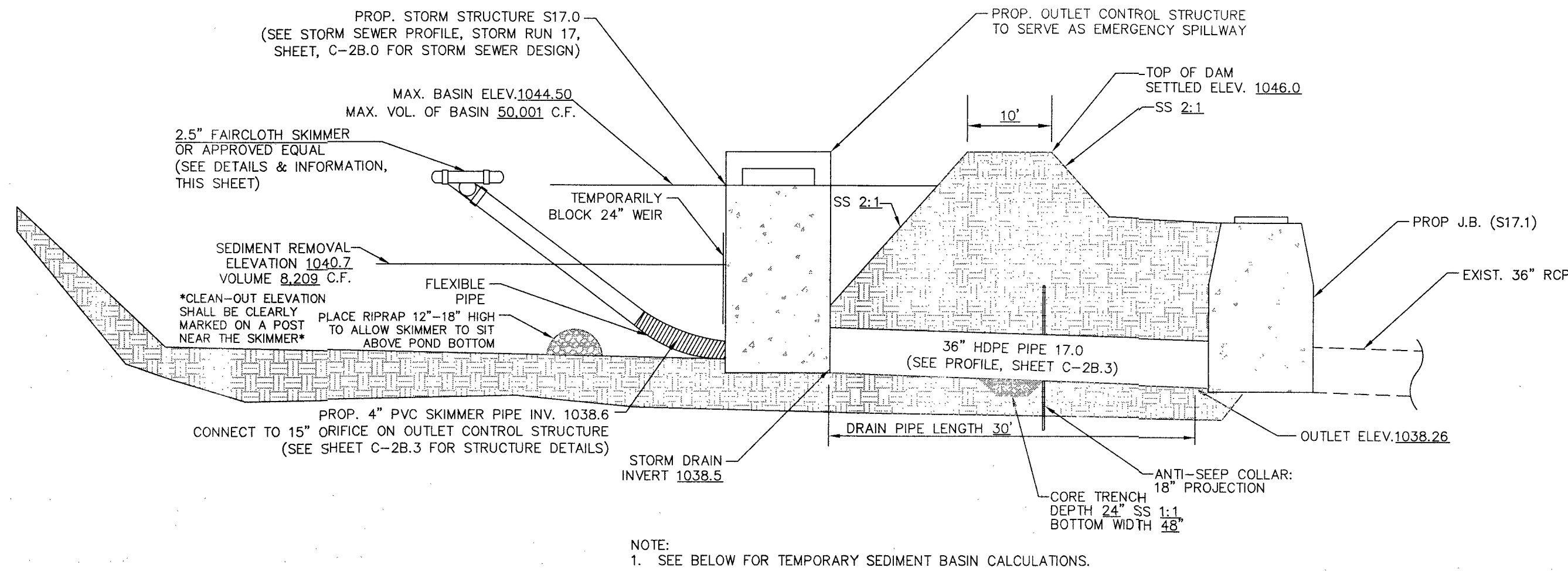
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TITLE:	EROSION CONTROL DATA	DATE:	08-08-2004	JOB NUMBER:	SECOND BYT 0000
	501 LOVVORN ROAD	SCALE:	1" = 10' S		
	LOCATED IN LL 127 DISTRICT 10				
	CITY OF CARROLLTON, GEORGIA				

C-3D.0



NOTE:
1. SEE BELOW FOR TEMPORARY SEDIMENT BASIN CALCULATIONS.

Sd3 TEMPORARY SEDIMENT BASIN A

N.T.S.

TEMPORARY SKIMMER BASIN DESIGN SHEET

Skimmer information obtained from J. W. Faircloth & Son, Inc.
www.fairclothskimmer.com
Phone: (919) 732-1244

Computed by: BSJ Date: 02/06/24
Checked by: JDB Date: 02/06/24

Project Name: 220607 - 501 LOVVORN ROAD
Basin No: A
Total area draining to basin = 13.82 acres.
Disturbed area draining to basin = 5.55 acres.

Volume

1. Compute minimum required storage volume (Vs).
 $V_s = 134 \text{ ctyac} \cdot 13.82 \text{ acres} = 1,851.9 \text{ cy} = 50,001 \text{ ft}^3$
2. Compute volume of basin at cleanout (Vc).
 $V_c = 22 \text{ ctyac} \cdot 13.82 \text{ acres} = 304.0 \text{ cy} = 8,209 \text{ ft}^3$

3. Determine bottom of basin elevation.
Bottom basin elevation = 1038.60 ft.

4. Determine elevation corresponding to minimum required storage volume, Vs.
Basin storage elev. = 1044.50 ft. (Determined by stage/storage relationship).

5. Determine elevation corresponding to cleanout volume, Vc.
Clean-out elevation = 1040.70 ft. (determined by stage/storage relationship).

Note: Clean-out elevation shall be clearly marked by a post near the skimmer.

Stormwater Runoff

6. Compute peak discharge from a 2-yr, 24-hr storm event.
 $Q_p = 23.83 \text{ cfs}$ (Attach runoff computation sheet.)
7. Compute peak discharge from a 25-yr, 24-hr storm event.
 $Q_{25} = 68.83 \text{ cfs}$ (Attach runoff computation sheet.)

Surface Area/Configuration Design (Recommended Area, If Available)

8. Compute minimum basin surface area (SA_{min}).
 $SA_{min} = 0.01 \text{ ac/cfs} \cdot 23.83 \text{ cfs} = 0.2383 \text{ ac} \cdot 43,560 \text{ sf/ac} = 10,424 \text{ sf}$
9. Check available area at 1/2 basin storage elevation (area at Vs).
Available area = 12,275 sf (determined by stage/storage relationship).
If "No", additional devices required inside basin to enhance particle settlement. See E&SC Plan.

10. Compute required length to achieve 2:1 L/V ratio.

Average width = 50 ft.
Req'd length = 2' average width
Req'd length = 2' average width
Required length = 100 ft
Available length = 150 ft
2:1 L/V ratio satisfied? Yes X No
If "No", note any required baffles on E&SC Plan and include calculations and details for baffles(s).

TEMPORARY SKIMMER BASIN DESIGN SHEET

Project Name: 220607 - 501 LOVVORN ROAD
Page 2 Basin No: A

Skimmer Design (sd)

Recommended Drawdown Time is 3 days

Skimmer size	24 hrs	2 days	3 days	4 days	7 days
1 1/2"	1,728	3,456	5,184	6,912	12,096
2"	3,283	6,566	9,849	13,132	22,982
2 1/2"	6,234	12,468	18,702	24,936	43,638
3"	9,774	19,547	29,322	39,096	68,415
4"	20,109	40,218	60,327	80,436	140,763
5"	32,832	65,664	98,496	131,328	229,824
6"	51,840	103,680	155,520	207,360	362,880
8"	97,978	195,956	293,934	391,912	685,846

11. Determine skimmer size for basin volume, Vs.
Skimmer size (Ss) = 2 1/2 in.

12. Determine the pipe length of the principal spillway, L.
L = 30 ft. (See plan)

13. Determine diameter of principal spillway (D_{ps}). Given by J. W. Faircloth & Son, Inc. (Skimmer connected directly to principal spillway)
D_{ps} = 36 in.

Anti-Seep Collar Design

14. Determine toe of dam elevation.
Toe of dam elevation = 1044.00 ft.
15. Determine if anti-seep collar is required. If yes, to any of the following conditions, a collar is required:
The settled height of the dam is greater than 15 feet
The principal spillway diameter (D_{ps}) is smooth pipe larger than 8"
The principal spillway diameter (D_{ps}) is corrugated metal pipe larger than 12".
16. Determine size of anti-seep collar required
X 18-inch projection (for heads (H) less than or equal to 10 feet).
24-inch projection (for heads (H) greater than 10 feet).

Emergency Spillway (es)

17. Compute minimum capacity of emergency spillway (Q_{es}).
 $Q_{es} = Q_{25} = 68.83 \text{ cfs}$
18. Determine stage (H_{ps}), bottom width (b), velocity (V) and minimum exit slope (S).
 $H_p = \text{N/A}$ ft $b = \text{N/A}$ ft $V = \text{N/A}$ fps $S = \text{N/A}$ %
19. Actual entrance channel slope, S_e = N/A %
20. Actual exit channel slope, S_e = N/A %
Note: If S_e is steeper than S, then the velocity in the exit channel will increase.
a) Calculate new exit velocity (V_e).
 $V_e = V \cdot (S_e/S)^{0.5} = \text{N/A}$ fps $\cdot (\text{N/A} / \text{N/A})^{0.5}$
 $V_e = \text{N/A}$ fps
Note: Refer to Channel Stabilization to determine the proper lining for the emergency spillway.
Grass N/A Rip-rap N/A Concrete N/A

Design Elevations

21. Basin storage elevation = 1044.50 ft.
22. Determine design high water elevation.
Design high water elevation = Basin storage elevation + Stage elevation (H_p)
Design high water elevation = 1044.50 ft. + N/A ft.
Design high water elevation = 1044.50 ft.
23. Determine elevation of top of dam.
Elevation of top of dam = Design high water elevation + 1 ft. freeboard
Elevation of top of dam = 1044.50 ft. + 1 ft.
Min. elevation of top of dam = 1045.50 ft.
Design elevation of dam = 1045.00 ft.

PLEASE NOTE THAT DESIGN VALUES DETERMINED BY THIS SHEET REPRESENT THE MINIMUM REQUIREMENTS FOR A TEMPORARY SEDIMENT BASIN.

FILE: 220607_TEMP_SKIMMER BASIN A DESIGN (134 CY STORAGE).xlsx

Page 1 of 2

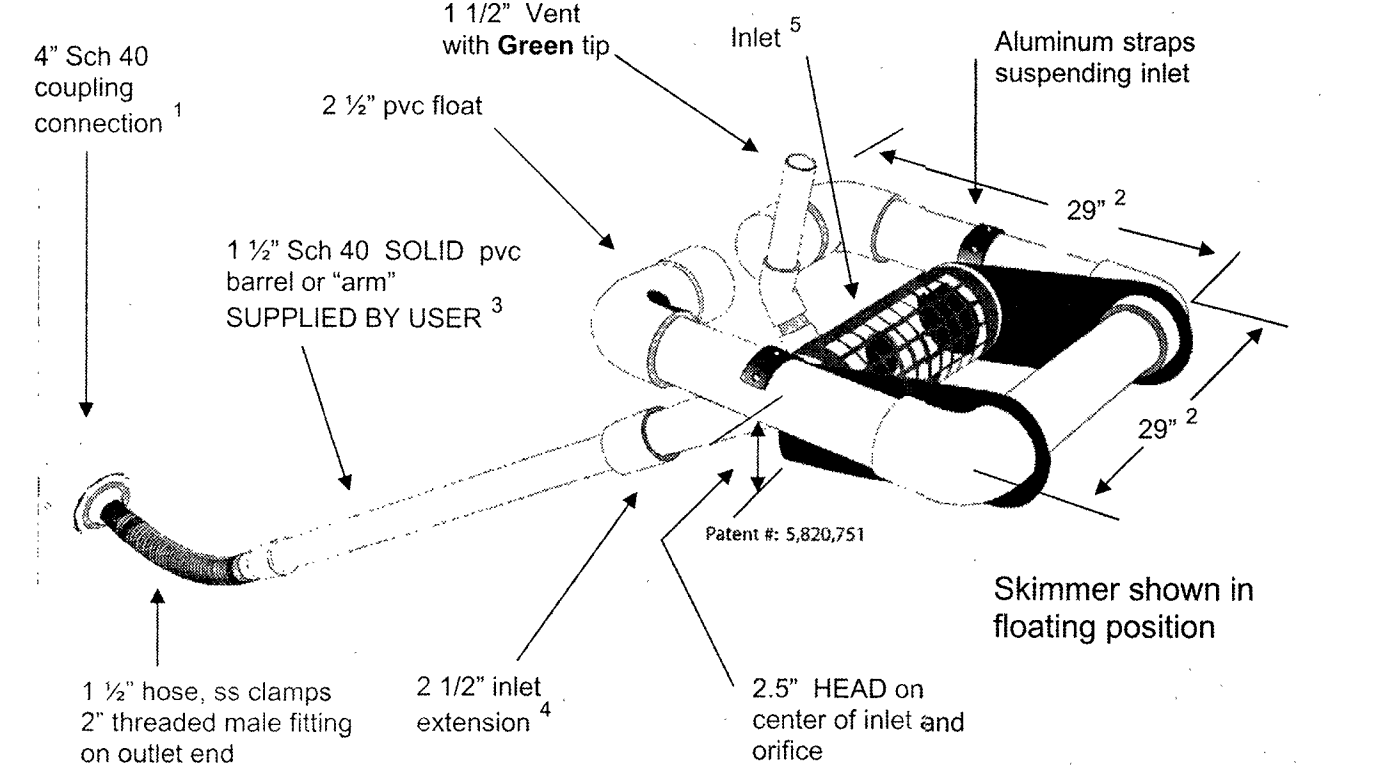
FILE: 220607_TEMP_SKIMMER BASIN A DESIGN (134 CY STORAGE).xlsx

Page 2 of 2

CONTRACTOR MAY SUBMIT ALTERNATE SURFACE DRAINING SKIMMER APPROVED BY GEORGIA SOIL & WATER CONSERVATION COMMISSION TO PROJECT ENGINEER FOR APPROVAL TO USE IN SEDIMENT BASIN

J. W. Faircloth & Son Inc.
Post Office Box 757
Hillsborough, North Carolina 27278
Phone: (919) 732-1244
Fax: (919) 732-1266

OR APPROVED EQUAL
2.5" Faircloth Skimmer® Surface Drain Cut Sheet
J. W. Faircloth & Son, Inc.
www.FairclothSkimmer.com



1. Skimmer can be attached to a straight 4" sch 40 pipe through the dam but the pipe may need to be anchored to the bottom at the connection so it is secure. Coupling can be removed and hose attached to outlet using the threaded 2" fitting. Typical methods used: on a metal structure a steel stubout welded on the side at the bottom with a 2" threaded coupling or reducers; on a concrete structure with a hole or orifice at the bottom, use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant; grout a 4" pvc pipe in a hole in the concrete to connect the skimmer.
2. Dimensions are approximate, not intended as plans for construction.
3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 6' so the inlet can be pulled to the side for maintenance. If more than 8' long weight may have to be added to inlet to counter the increased buoyancy.
4. Inlet tapers down from 2 1/2" maximum inlet to a 1 1/2" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The inlet orifice can be reduced using the plug and cutter provided to control the outflow rate.
5. Inlet is 5" pipe between the straps with aluminum screen door for access to the 2 1/2" inlet and orifice inside.
6. Capacity 6,234 cubic feet per day maximum with 2 1/2" inlet and 2.5 head. Inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular basin volume and drawdown time required.
7. Shipped assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes flexible hose, rope, orifice cutter, etc.

2-5inchCut TM 11-07

November 11, 2007

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 034591
JOHN D. BASS
LEVEL II CERT. #7788
EXPIRES: 09-28-2024

GEORGIA REGISTERED PROFESSIONAL SURVEYOR
No. 3125
MICHAEL D. GRANFORD

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
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WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.
WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.
NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

DATE: 02-08-2024
DESIGNED BY: JDB
JOB NUMBER: 220607
N.T.S.

LOCATION: 501 LOVVORN ROAD
CITY OF CARROLLTON, GEORGIA
LOCATED IN LL 127 DISTRICT 10

SCALE: N.T.S.

EROSION CONTROL DATA

C-3D.1

DEVELOPMENT REFERENCE:

DESIGN PROFESSIONAL: GEORGIA AND WEST, INC.
105 CORPORATE DRIVE
CARROLLTON, GA 30117
PHONE: (770) 834-4684

24-HOUR CONTACT
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
404-376-4159

GENERAL NOTES:

1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
2. EACH SECONDARY PERMITTEE WILL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.
3. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
4. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVE & PARKING, GRASSING, LANDSCAPING, SELF STORAGE BUILDINGS AND APARTMENT BUILDINGS.
5. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.
6. THIS SITE TO BE DEVELOPED INTO AN APARTMENT COMPLEX WITH SELF STORAGE BUILDINGS, THE TOTAL SITE AREA: 10.9 ACRES, THE TOTAL DISTURBED AREA: 11.0 ACRES.
7. TEMPORARY SEDIMENT BASINS WILL BE CONSTRUCTED TO ACCOMMODATE 134 CUBIC YARDS OF STORAGE PER ACRE DRAINED.
8. DETENTION FACILITIES, STORM WATER OUTLET AND LANDSCAPING VEGETATION WILL BE INSTALLED ON-SITE TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES AFTER CONSTRUCTION IS COMPLETED.

CLEARING PHASE - PHASE I
EROSION CONTROL NOTES:

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AREAS SHALL BE ALLOWED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE AND DURATION SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1/2" & 3/4" IN DIAMETER AND OVERLAP ON A GEOTEXTILE UNDERLAYER. THE GEOTEXTILE UNDERLAYER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL. RECORD, SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM DRAINAGE AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL THE FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

RETENTION OF RECORDS:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART IV.1.1.1.
a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT AND THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) "I CERTIFY 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" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

PURSUANCE TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" RELATING TO ENGINEERING SERVICES SHALL MEAN A SIGNED STATEMENT BASED ON FACTS AND KNOWLEDGE KNOWN TO THE ENGINEER AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

John D. Bass
JOHN D. BASS, PE GA NO. 34561 DATE 02-08-2024
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788 EXPIRES: 09-29-2024

CRITICAL WORK ZONE EROSION CONTROL NOTES:

SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND SLOPE STABILIZATION. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

GRADING PHASE - PHASE 2
EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE SLOPE, SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS. THE PERIMETER SILT FENCE SHALL BE MAINTAINED ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

FINAL PHASE - PHASE 3
EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.

STONE DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/2 DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE APPROVED PERMIT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

PERMIT COVERAGE:

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. 100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE.

AUTHORIZED DISCHARGES

1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.4.c

2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1

3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2
A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.

B. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT. AN INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2

- A. FIRE FIGHTING ACTIVITIES
- B. FIRE HYDRANT FLUSHING
- C. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING
- D. IRRIGATION DRAINAGE
- E. AIR CONDITIONING CONDENSATE
- F. SPRINGS
- G. UNCONTAMINATED GROUND WATER
- H. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

LIMITATIONS ON COVERAGE PART I.C.3

1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT.

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT, SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.

D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §812-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4

ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03.

SAMPLING REQUIREMENTS PART IV.D.6

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A

PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

6. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

7. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

8. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

9. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

10. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

11. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

12. PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNFORMALLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

13. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4, WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY PART IV.D.5.d

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM EVENT, DISCHARGE, STORM OR MONITORING RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

3.a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF THE GRADING OPERATIONS IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

3.b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

3.c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

3.d. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED, PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

3.e. EXISTING CONSTRUCTION ACTIVITIES THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES."

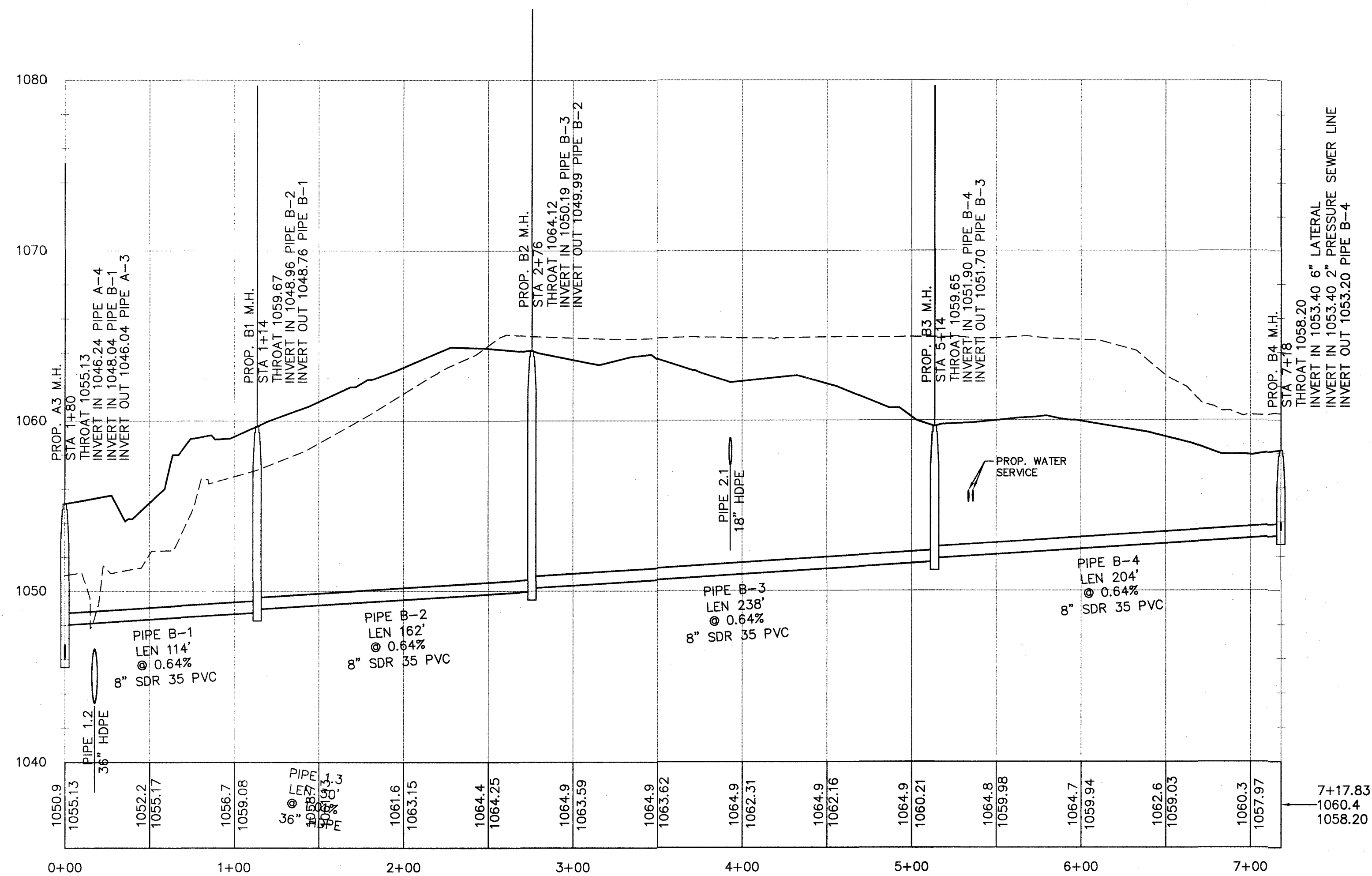
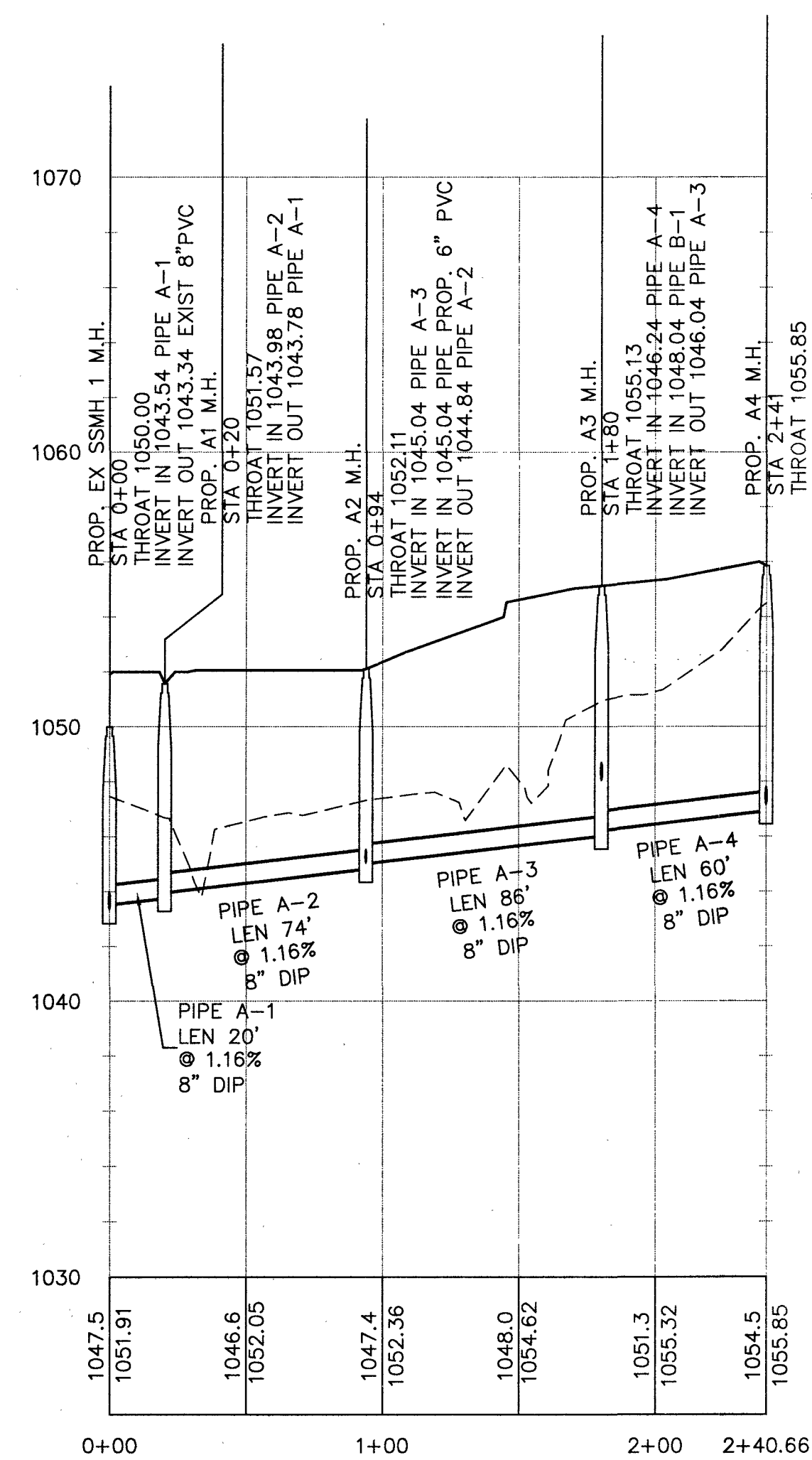
"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."

"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."

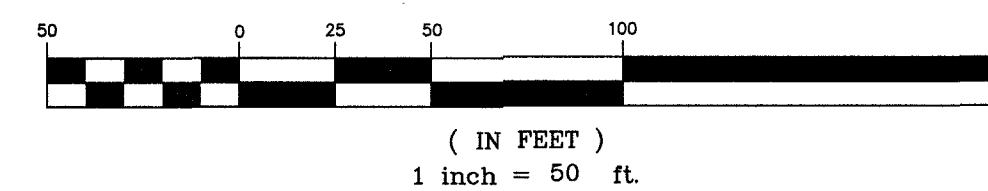
GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
No. 034561
JOHN D. BASS

GEORGIA
REGISTERED
LAND SURVEYOR
No. 3125
MICHAEL D. CRAWFORD

GEORGIA
& WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770)



GRAPHIC SCALE



SCALE:
VERT: 1" = 5'
HORZ: 1" = 50'

VERT: 1" = 5'

HORZ: 1" = 50'

OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

CONSTRUCTION NOTES
REVIEW ALL ASSOCIATED SHEETS
ON AND DETAIL SHEETS" BEFORE
START OF ANY WORK ON SITE.
FIELD VERIFY ALL DIMENSIONS PRIOR TO
BEGINNING WORK.
OBTAIN WRITTEN APPROVAL PRIOR TO EXECUTING
ANY WORK.
ALL MATERIALS WILL COMPLY WITH THE APPROPRIATE
STATE'S STANDARDS & SPECIFICATIONS.
ALL SUBGRADES SHALL BE
COMPACTED TO 95% STANDARD PROCTOR.
ALL AREAS TO RECEIVE PAVEMENT OR
CURB SHALL BE COMPACTED TO 100% STANDARD
PROCTOR.
ALL UTILITIES SHALL BE REPAIRED TO ORIGINAL
CONDITION.
ALL UTILITIES SHALL BE DESIGNED AND INSTALLED
IN ACCORDANCE WITH THE CITY OF
CARROLLTON SERVING UTILITY COMPANY.
ALL WORK SHALL BE IN ACCORDANCE WITH THE
CITY OF CARROLLTON STANDARDS,
SPECIFICATIONS, MAYOR AND CITY COUNCIL/PLANNING
COMMISSION RESOLUTIONS AND VARIANCES APPROVED BY THE
CITY OF CARROLLTON.
THE CITY OF CARROLLTON PLANNING DEPARTMENT APPEALS THE LATTER SHALL GOVERN.

SANITARY SEWER NOTES: (CITY OF CARROLLTON)

- A. ALL WATER MAINS AND SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE CITY STANDARDS, LATEST EDITION.
- B. NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION ON WATER AND SEWER. AN INSPECTOR WILL BE ASSIGNED AND A PRE-CONSTRUCTION MEETING SCHEDULED AT THIS TIME.
- C. "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
- D. ALL GRAVITY SEWER LINES MUST PASS A LOW PRESSURE AIR TEST (5 lbs FOR 5 MINUTES) AND BE TELEVIEWED PRIOR TO ACCEPTANCE.
- E. ALL MANHOLES MUST PASS A VACUUM TEST PRIOR TO ACCEPTANCE.
- F. ALL CONTRACTORS FOR WATER AND SEWER CONSTRUCTION SHALL BE ON THE CITY'S APPROVED CONTRACTORS LIST. CONTACT THE CITY ENGINEERING DEPARTMENT FOR A COPY OF THE LIST AND/OR APPLICATIONS.
- G. CONTRACTORS HAVE THE RESPONSIBILITY TO ASSURE EROSION CONTROL OF ALL CITY EASEMENTS, PARTICULARLY WHEN THESE EASEMENTS ARE IN CLOSE PROXIMITY OF DRAINAGE EASEMENTS. SEE THE ASSIGNED CITY INSPECTOR FOR DETAILS.
- H. THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS.

CITY OF CARROLLTON, NOV. 2007

NOTE:
1. FOR ALL UTILITY TERMINATIONS REQUIRING PAVEMENT REMOVAL WITHIN ROADWAY, CONTRACTOR SHALL PATCH ROAD PER CITY OF CARROLLTON OPEN CUT PAVEMENT REPAIR, SEE SHEET CD-5.0.
2. CONTRACTOR SHALL NOT BYPASS OR DISCHARGE RAW WASTEWATER ONTO THE GROUND OR INTO RECEIVING STREAMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.





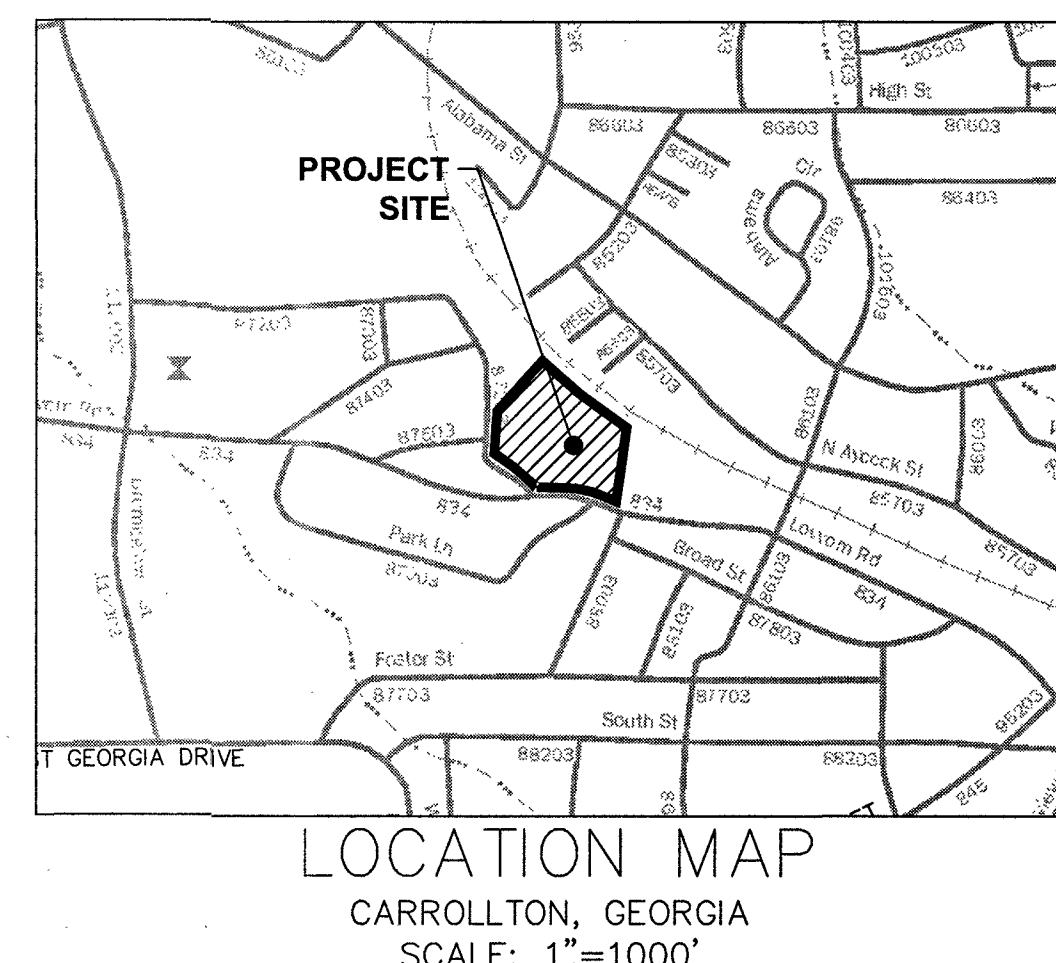
LEGEND		

OWNER/DEVELOPER
CARROLLTON WATER STOP, INC.
ATTN: HUGH GLIDEWELL
988 LANIER BLVD NE
ATLANTA, GA 30306
404-376-4159
HUGH.GLIDEWELL@GMAIL.COM

LANDSCAPING NOTE: THIS PLAN HAS BEEN PROVIDED TO ADDRESS THE MINIMUM STANDARDS REQUIRED BY THE CITY OF CARROLLTON. TREE TYPES AND LOCATIONS ARE RECOMMENDED TO SATISFY THOSE REQUIREMENTS. OWNER RESERVES THE RIGHT TO MODIFY THIS PLAN WITH THE APPROVAL OF THE CITY OF CARROLLTON PRIOR TO INSTALLATION.

- LANDSCAPE SPECIFICATIONS:
1. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE IMPLEMENTING WORK AS SPECIFIED ON THE PLANS.
 2. LANDSCAPE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, UTILITY LOCATIONS, AND PLANT QUANTITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING OR CONTINUING WORK.
 3. THERE SHALL BE NO ADDITIONS, SUBSTITUTIONS, OR DELETIONS TO THIS PLAN WITHOUT PRIOR APPROVAL OF THE CITY.
 4. ALL CONSTRUCTION SHALL CONFORM TO CITY, STATE, COUNTY, AND FEDERAL REQUIREMENTS.
 5. THIS PLAN IS SCHEMATIC AND, DUE TO THE NATURE OF CONSTRUCTION, SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT THIS PLAN.
 6. ALL PLANTING BEDS AND MULCHED AREAS TO RECEIVE PINE STRAW OR BARK MULCH. MULCH TO BE PLACED AT THE DEPTH SPECIFIED.
 7. ALL TREES NOT LOCATED WITHIN SHRUB BEDS SHALL RECEIVE MULCH TO THE DEPTH SPECIFIED IN A 2' RADIUS AROUND THE CENTER OF THE TRUNK.
 8. ALL LANDSCAPING SHALL CONFORM TO THE CITY'S STANDARD SPECIFICATIONS.
 9. ALL PLANT MATERIAL SHALL BE PROVIDED AND MAINTAINED IN CONFORMANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) AS PUBLISHED BY THE "AMERICAN ASSOCIATION OF NURSEYMEN."
 10. ALL PLANTING ON THE PLAN SHALL BE PROVIDED AND MAINTAINED WITH 3 INCHES OF SHREDDED HARDWOOD MULCH OR 4 INCHES OF PINESTRAW.
 11. TREE CARE OPERATIONS SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS A300 (TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE STANDARDS) AND 2133 (SAFETY STANDARDS).
 12. THE CLEARING OF VEGETATION WITHIN THE DRIP LINE OF TREES DESIGNATED FOR PRESERVATION SHALL ONLY BE DONE BY HAND OR LIGHT RUBBER-WHEELED EQUIPMENT THAT WILL NOT DAMAGE ROOTS.
 13. FOR AREAS OUTSIDE DRIVEWAY: TREE STUMPS AND ROOTS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF SIX (6) INCHES BELOW THE AVERAGE CONTOUR OF THE GROUND SURFACE. REMOVAL SHALL BE ACCOMPLISHED BY MEANS OF STUMP GRINDING EQUIPMENT DESIGNED FOR THIS PURPOSE, OR BY HAND. BLASTING OR PUSHING THE STUMPS OUT WITH BULLDOZERS WILL NOT BE PERMITTED. HOLES OR VOIDS CREATED BY THE REMOVAL (GRINDING) OF STUMPS SHALL BE FILLED, GRADED AND COMPACTED WITH ACCEPTABLE FILL MATERIAL TO MEET ACCEPTABLE CONDITION. IN AREAS WHERE STUMPS ARE ADJACENT TO GRASS AREAS, GRASSING OF SOD SHALL BE USED TO REPAIR THE BARE SPOTS CREATED BY THE STUMP REMOVAL OR AREAS DAMAGED BY EQUIPMENT AND/OR CURRENTLY EXPOSED ON SITE.
 14. DAMAGES TO PLANTS REMAINING ON SITE, WHICH INCLUDES, BUT NOT LIMITED TO, IMPROPER PRUNING, AND/OR ENCROACHMENT INTO THE DRIP LINE OF TREES TO REMAIN, SHALL BE ASSESSED USING THE GUIDE FOR PLANT APPRAISAL, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE.

*ZONING USES LABELED TO ESTABLISH REQUIRED TREE CANOPY. USED FOR LANDSCAPE PLAN ONLY.

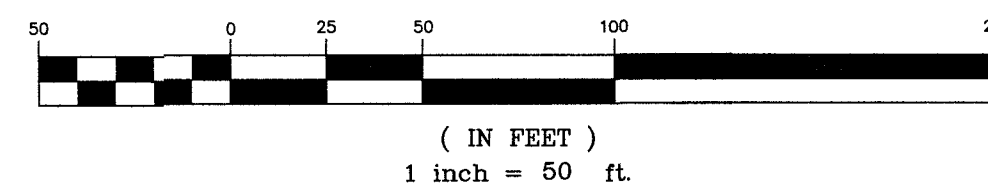


LANDSCAPING LEGEND

SELF STORAGE SITE (C-2 USE)		
TOTAL LANDSCAPED AREA:		
REQUIRED LANDSCAPED AREA: 3.30 (SITE AC) x 0.20 (20%) = 28,750 SF		
PROPOSED LANDSCAPED AREA: = 41,382 SF		
TOTAL SITE CANOPY COVER:		
REQUIRED SITE CANOPY: 3.30 (SITE AC) x 0.40 (40%) = 57,499 SF		
REQUIRED PLANTED CANOPY: = 57,499 SF		
PROPOSED PLANTED CANOPY: = 57,700 SF		
STREETSCAPE PLANTING		
	# TREES	CANOPY COVER (sq)
	3	4,800
OAK OR OTHER APPROVED BY CITY (1800 SF PER TREE)		
	4	800
CRAPEMYRTLES OR OTHER APPROVED BY CITY (150 SF PER TREE)		
PARKING LOT / PERIMETER PLANTING		
	# TREES	CANOPY COVER (sq)
	4	6,400
OAK OR OTHER APPROVED BY CITY (1600 SF PER TREE)		
	51	45,900
EASTERN RED CEDAR OR OTHER APPROVED BY CITY (900 SF PER TREE)		
TOTAL		57,700
MULTI FAMILY SITE (R-M USE)		
TOTAL LANDSCAPED AREA:		
REQUIRED LANDSCAPED AREA: 7.60 (SITE AC) x 0.30 (30%) = 99,317 SF		
PROPOSED LANDSCAPED AREA: = 195,704 SF		
TOTAL SITE CANOPY COVER:		
REQUIRED SITE CANOPY: 7.60 (SITE AC) x 0.50 (50%) = 165,526 SF		
PRESERVED CANOPY: = 24,867 SF		
REQUIRED PLANTED CANOPY: = 140,661 SF		
PROPOSED PLANTED CANOPY: = 141,000 SF		
STREETSCAPE PLANTING		
	# TREES	CANOPY COVER (sq)
	18	28,800
OAK OR OTHER APPROVED BY CITY (1600 SF PER TREE)		
	19	2,850
CRAPEMYRTLES OR OTHER APPROVED BY CITY (150 SF PER TREE)		
PARKING LOT / PERIMETER PLANTING		
	# TREES	CANOPY COVER (sq)
	33	52,800
OAK OR OTHER APPROVED BY CITY (1600 SF PER TREE)		
	42	37,800
EASTERN RED CEDAR OR OTHER APPROVED BY CITY (900 SF PER TREE)		
	61	9,150
CRAPEMYRTLES OR OTHER APPROVED BY CITY (150 SF PER TREE)		
	4	6,400
OAK (SPECIMEN TREE REPLACEMENT) OR OTHER APPROVED BY CITY (1,600 SF PER TREE) (2 OAKS ARE REPLACEMENT FOR REMOVED SPECIMEN OAK)		
	2	3,200
PECAN (SPECIMEN TREE REPLACEMENT) OR OTHER APPROVED BY CITY (1,600 SF PER TREE) (2 PECANS ARE REPLACEMENT FOR REMOVED SPECIMEN PECAN)		
TOTAL		141,000

NOTE: ALL PLANTED TREES SHALL BE MIN. 2" CALIPER UNLESS NOTED OTHERWISE.
ALL SPECIMEN TREES SHALL BE MIN. 4" CALIPER

GRAPHIC SCALE



LANDSCAPE PLAN

501 LOVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

C-5.0

GEORGIA
& WEST, INC.

ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: mailto@georgiawest.com

OFFICE (770) 834-4694
FAX (770) 834-1005

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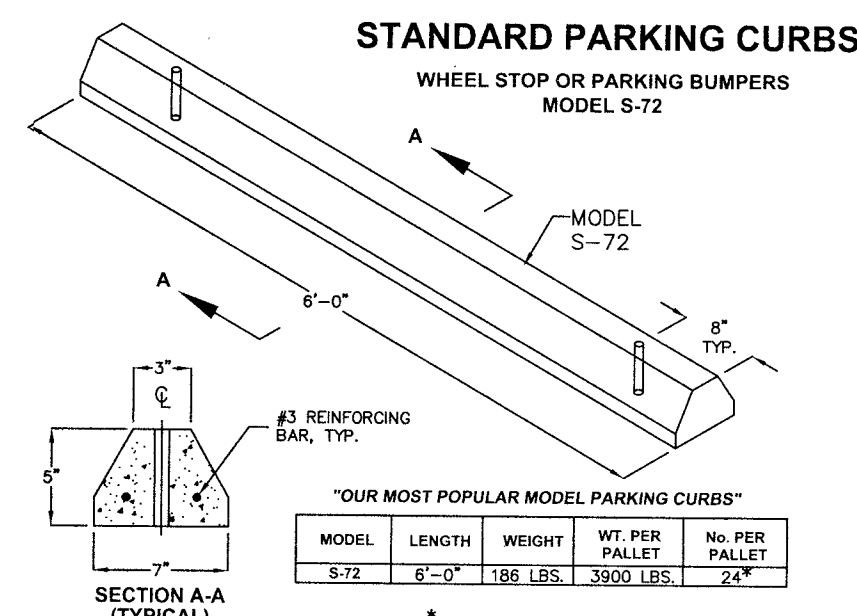
TITLE:

DATE: 02-06-2024

SCALE: 1" = 50'

JOB NUMBER: 220607

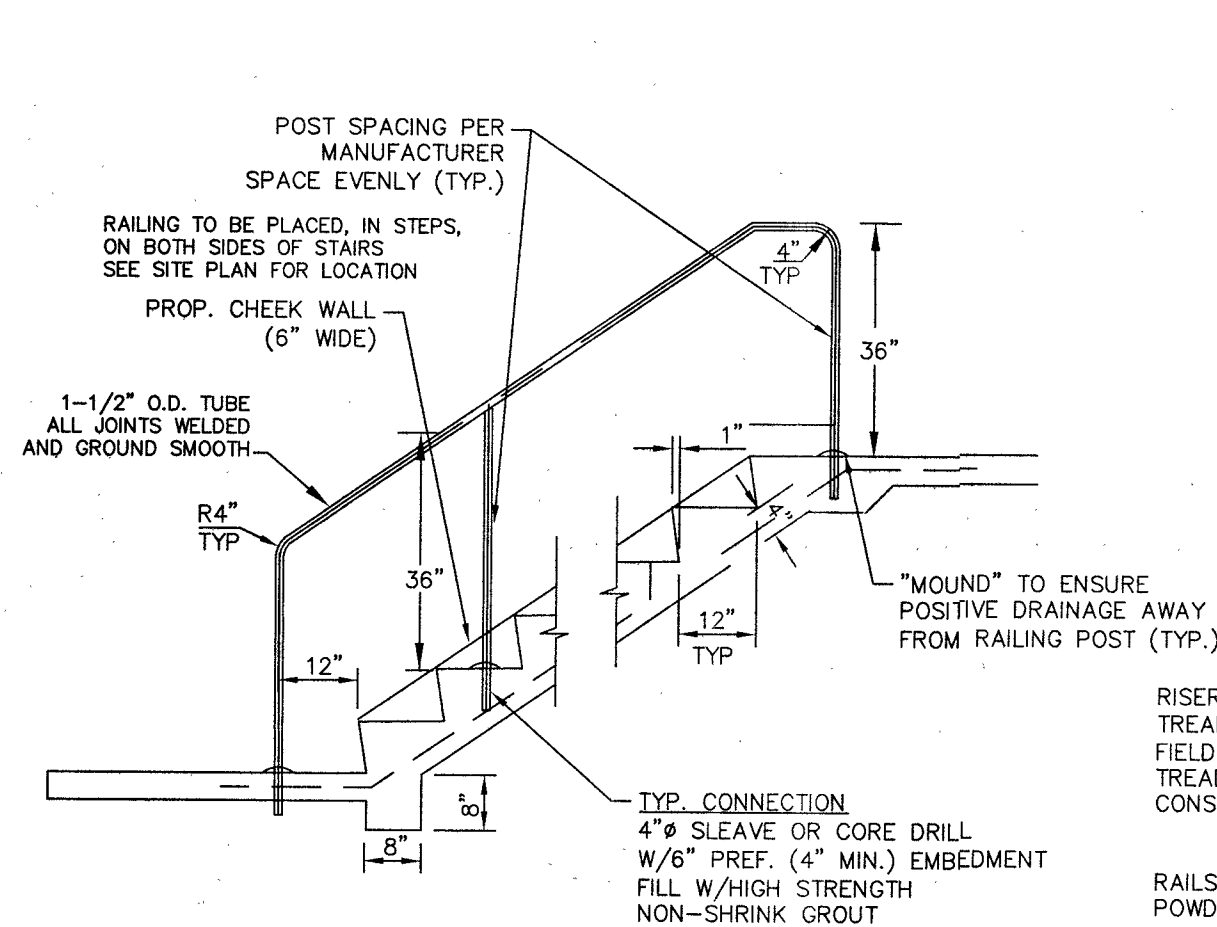
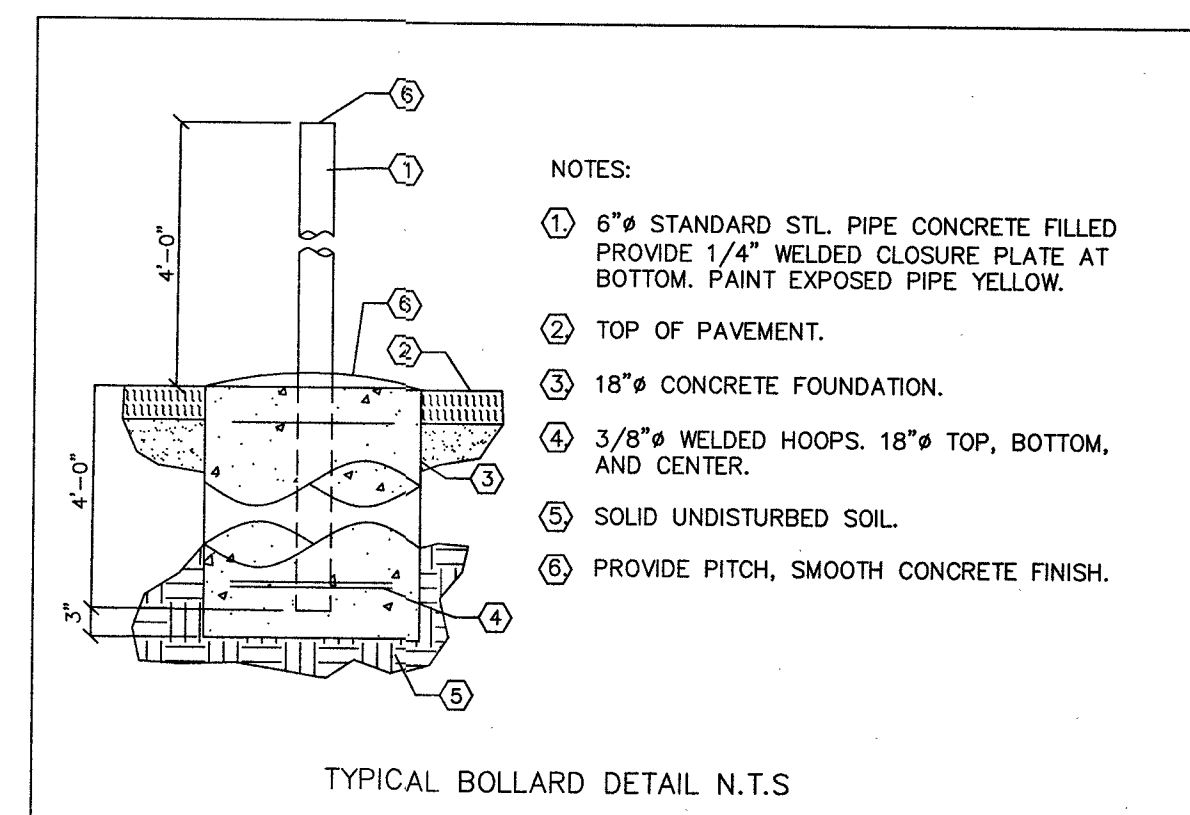
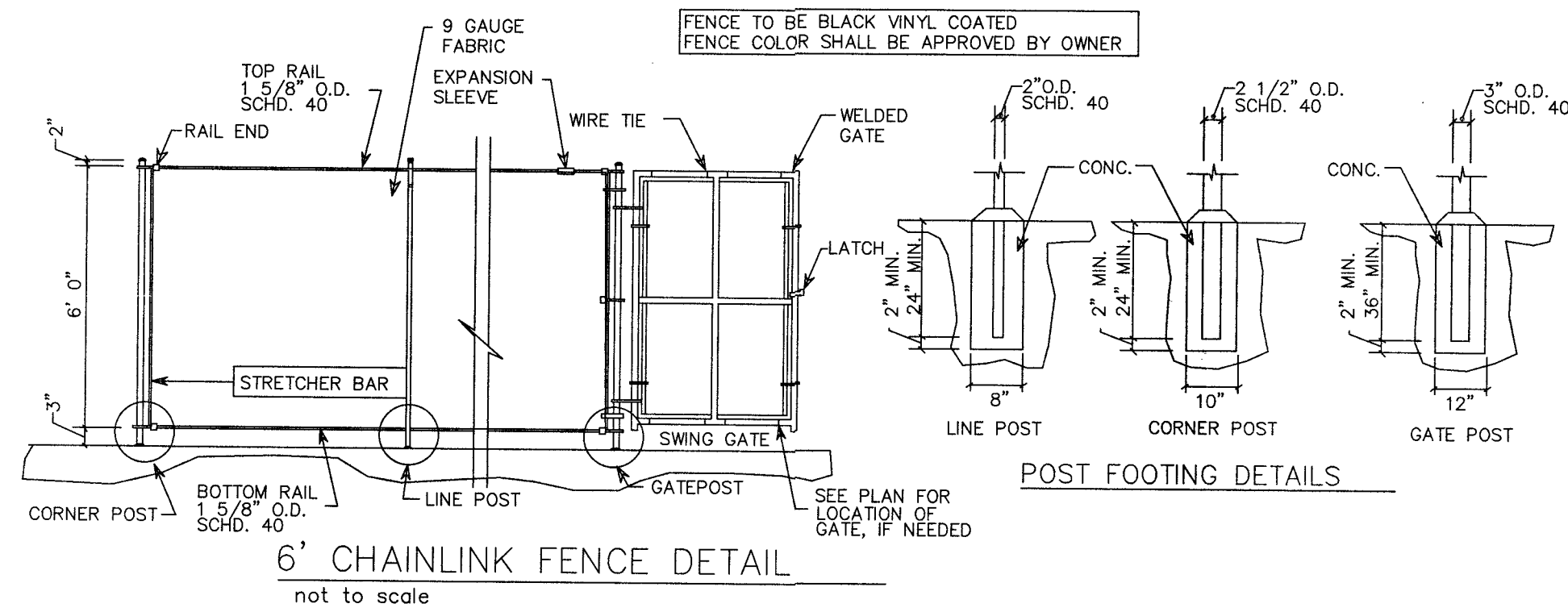
DESIGNED BY: JDB



FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST, OR APPROVED EQUAL

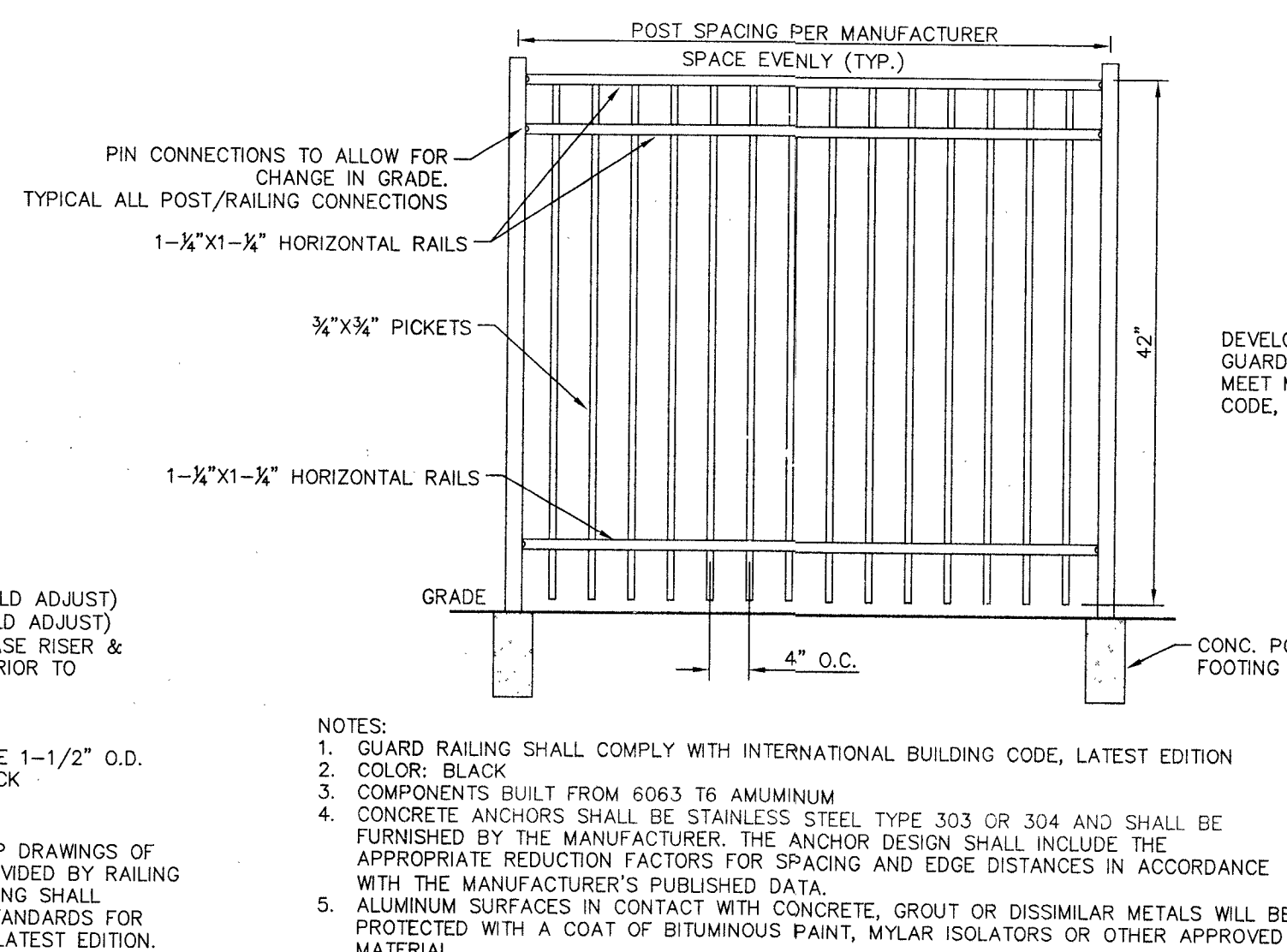
JENSEN PRECAST
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JENSEN PRECAST
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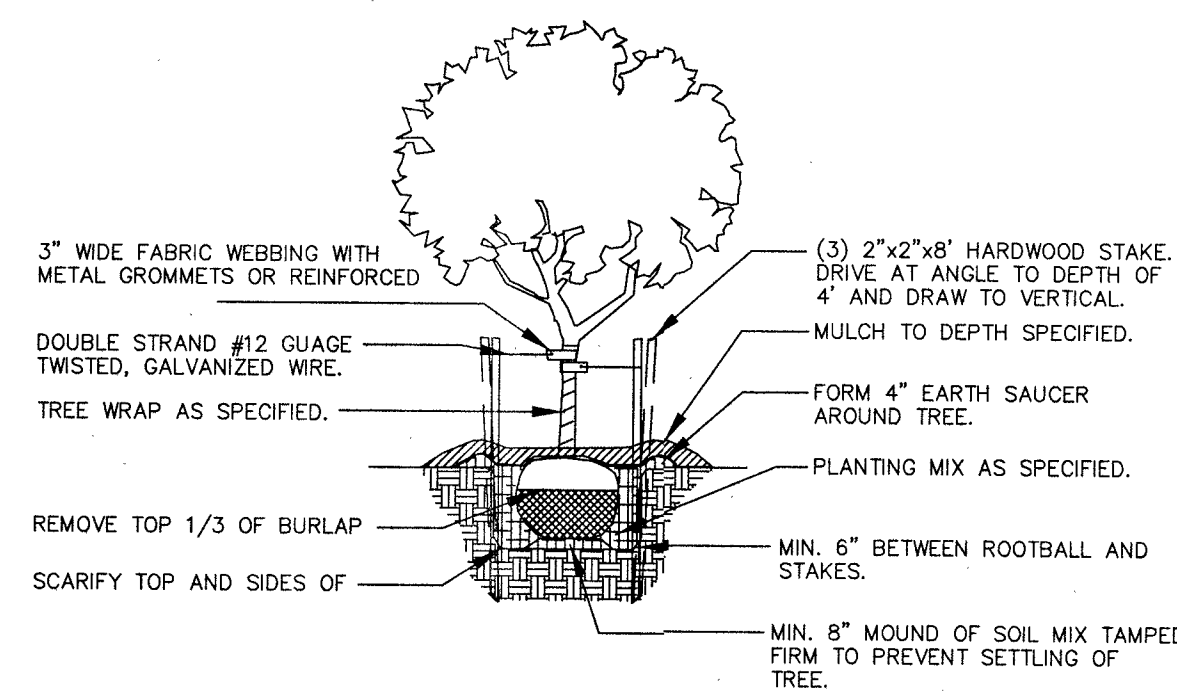
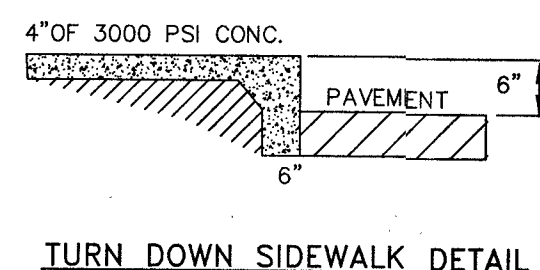
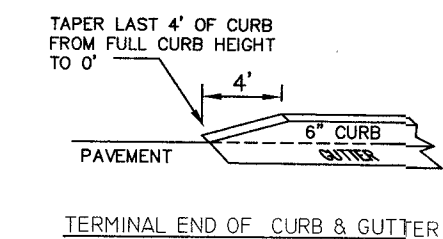
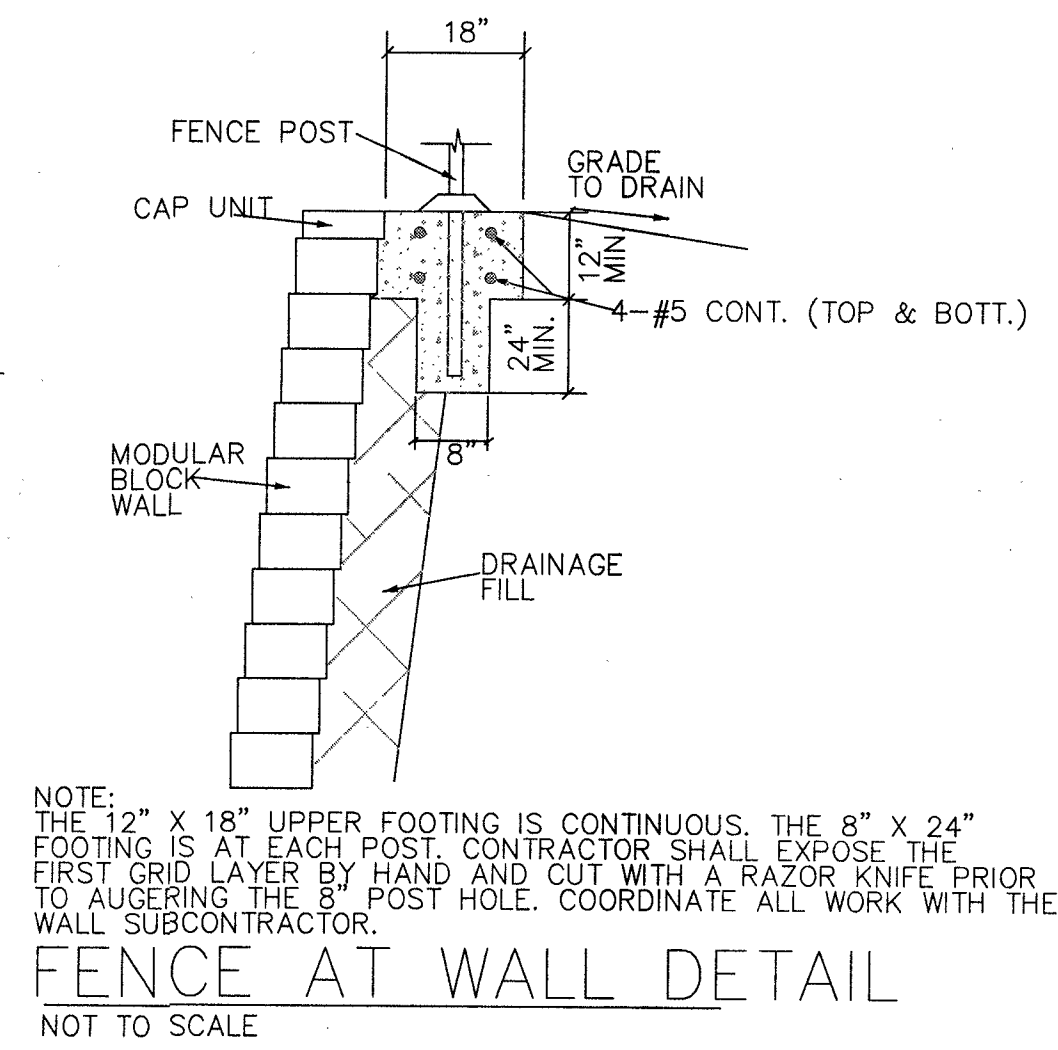


RAILS & POSTS TO BE 1-1/2" O.D. POWDER COATED BLACK

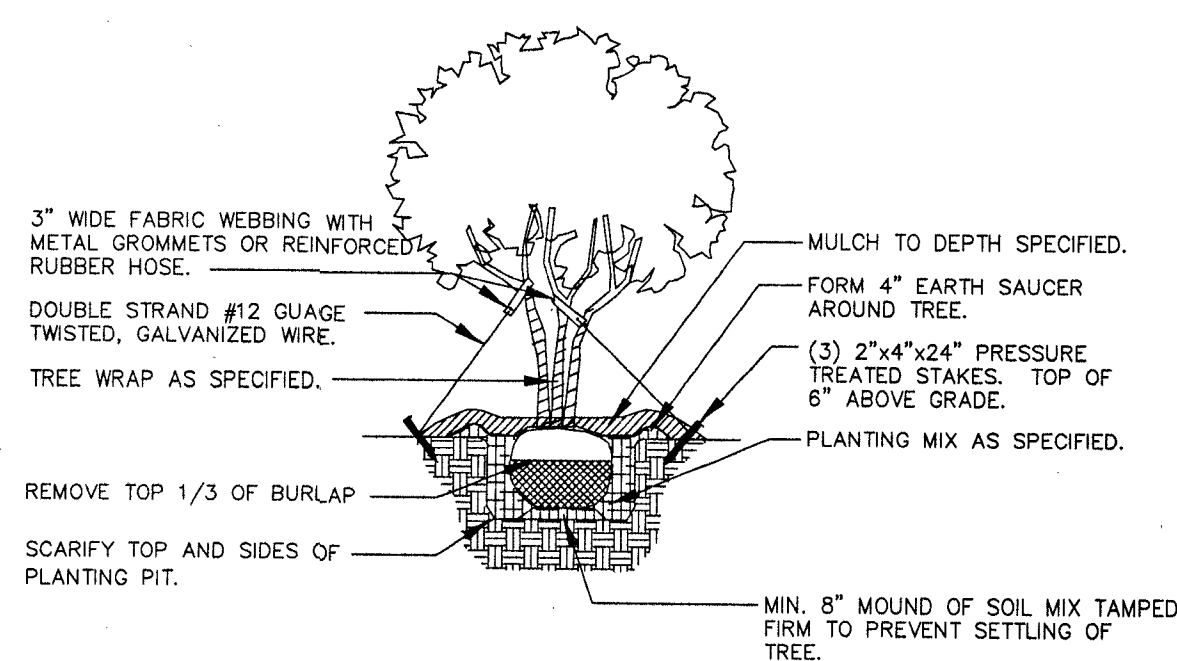
FINAL DESIGN & SHOP DRAWINGS OF HANDRAIL TO BE PROVIDED BY RAILING MANUFACTURER. RAILING SHALL COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.



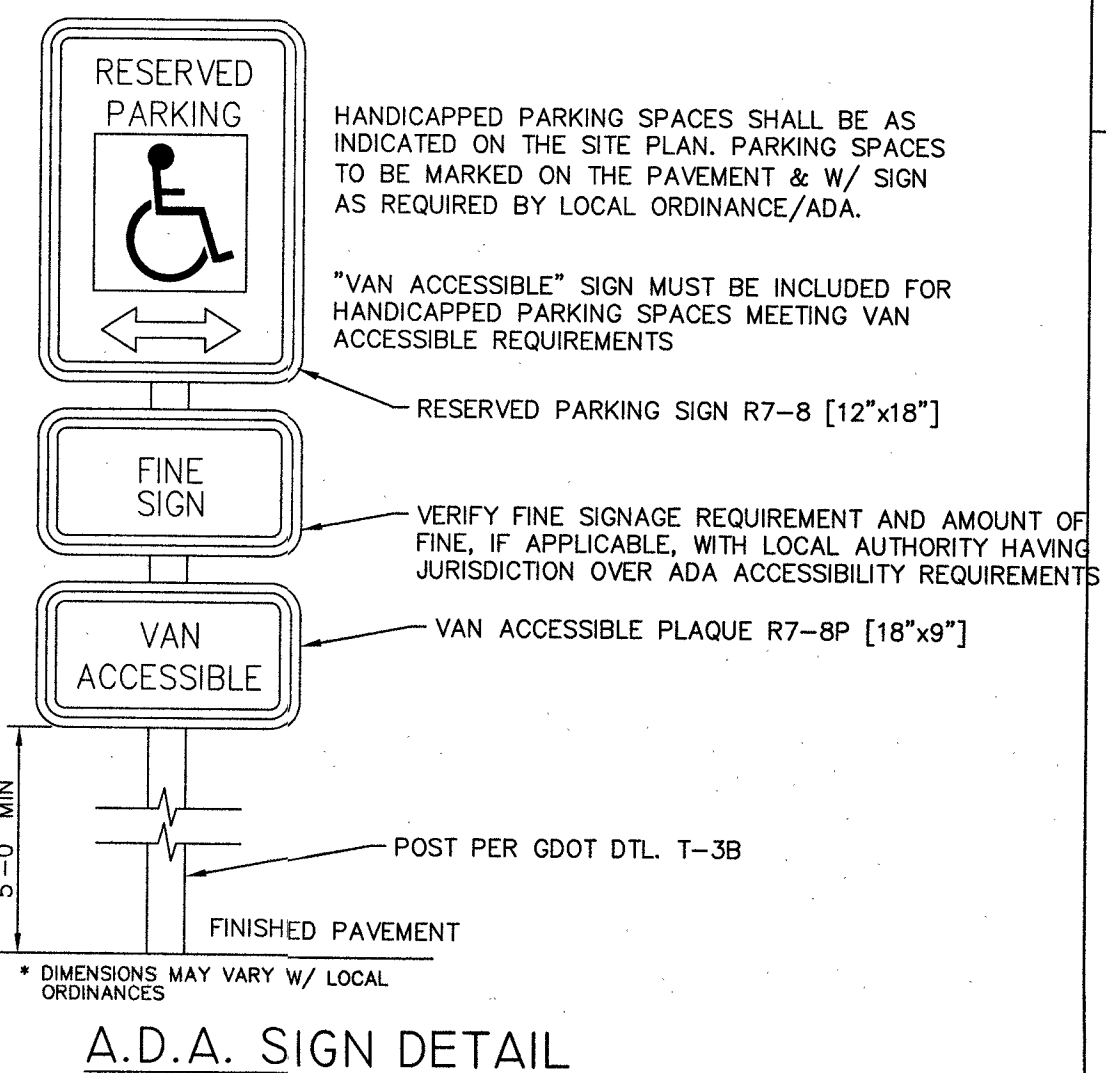
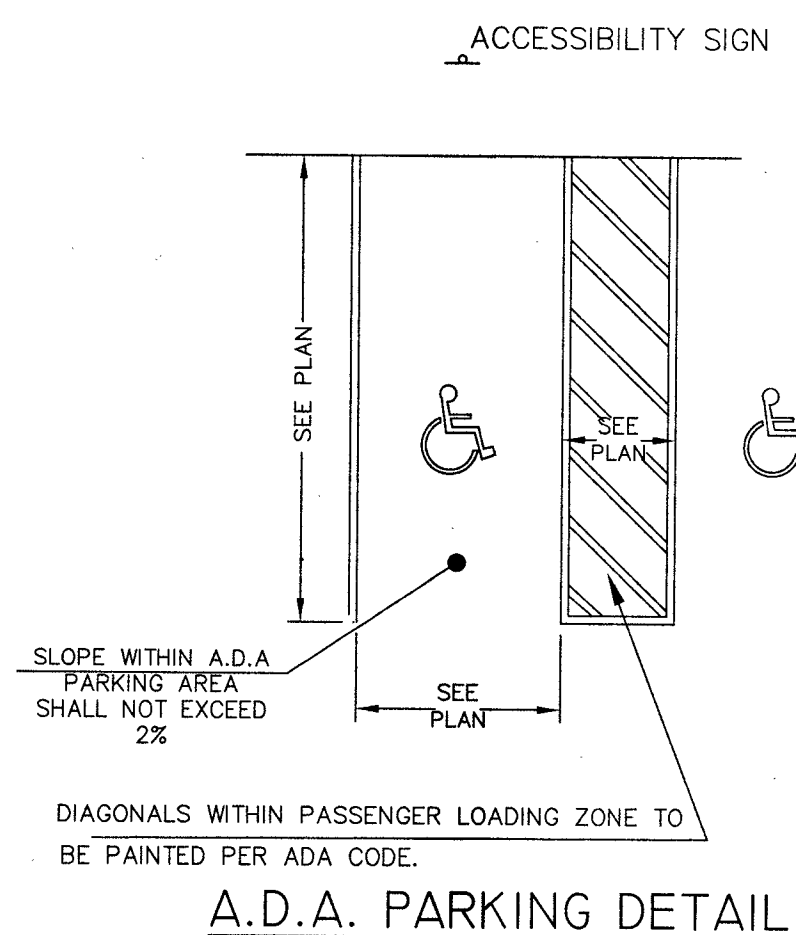
DEVELOPER MAY SUBMIT AN ALTERNATIVE PEDESTRIAN GUARDRAIL TO THE CITY FOR APPROVAL. ALTERNATE SHALL MEET MINIMUM REQUIREMENTS OF INTERNATIONAL BUILDING CODE, LATEST EDITION



- PLANT TREE WITH 1.5-2" OF ROOTBALL ABOVE FINISHED GRADE
- SET STAKES WITHIN MULCH BED
- PLACE STAKES AT EQUAL DISTANCES AROUND TREE
- PLACE MULCH AND WATER TREE THOROUGHLY AFTER PLANTING
- PLANTING PIT SHALL BE TWICE THE DIAMETER OF THE ROOTBALL.



- DETAIL NOTES:
- PLANT TREE WITH 1.5-2" OF ROOTBALL ABOVE FINISHED GRADE
 - SET STAKES WITHIN MULCH BED
 - PLACE STAKES AT EQUAL DISTANCES AROUND TREE
 - PLACE MULCH AND WATER TREE THOROUGHLY AFTER PLANTING
 - FLAG ALL GUY WIRES WITH SURVEYOR'S TAPE
 - PLANTING PIT SHALL BE TWICE THE DIAMETER OF THE ROOTBALL.



GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING

105 CORPORATE DRIVE
CARROLLTON, GA 30117

OFFICE (770) 834-4894
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E-MAIL: mail@georgiawest.com

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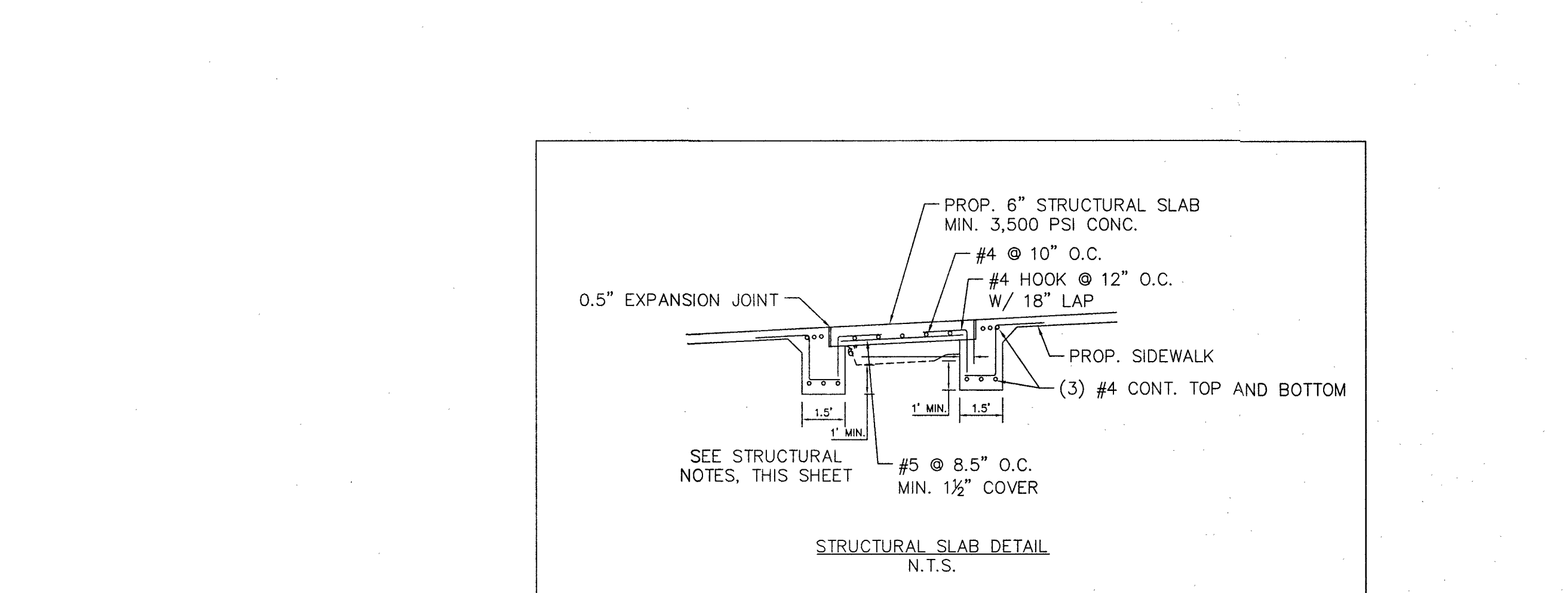
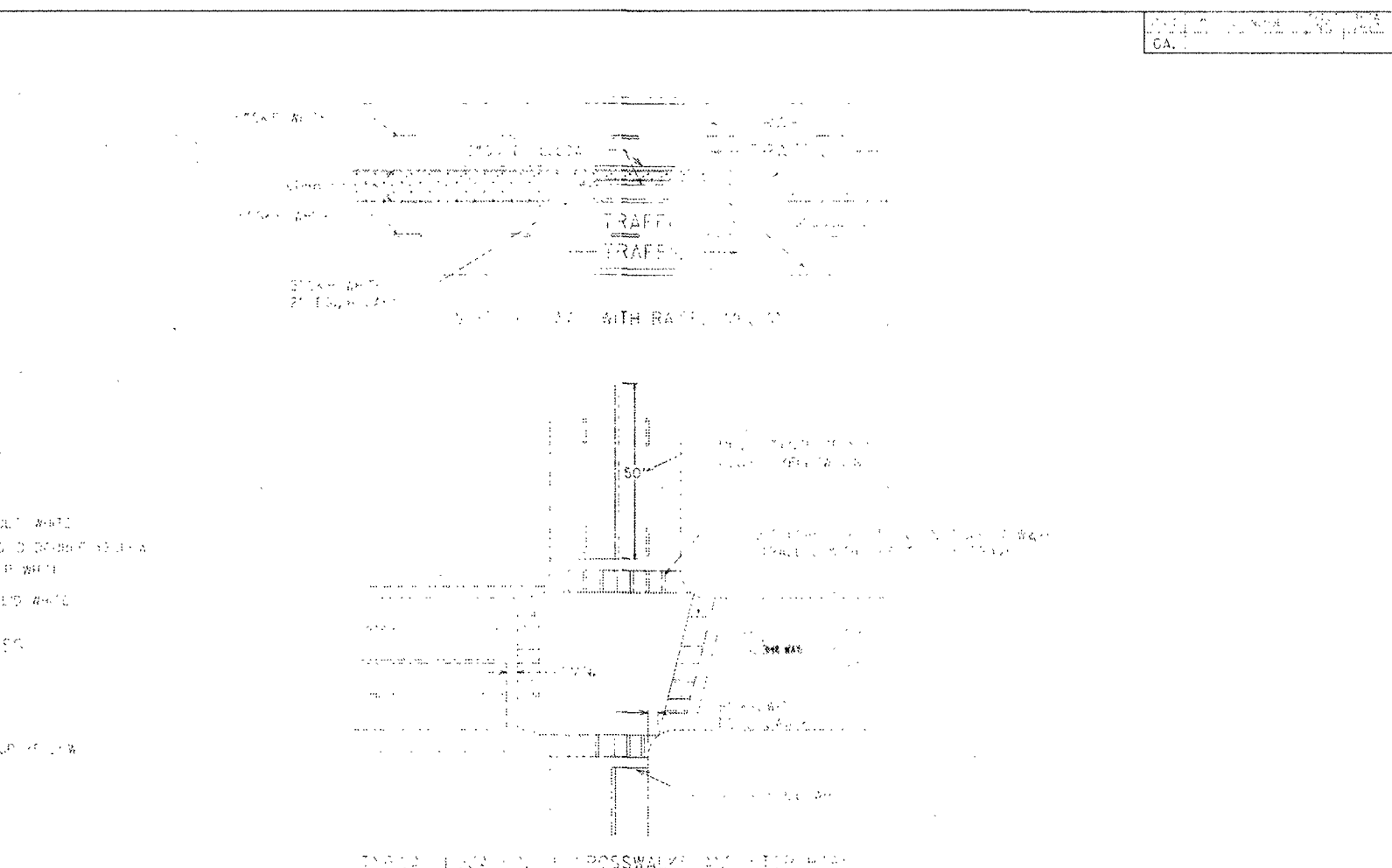
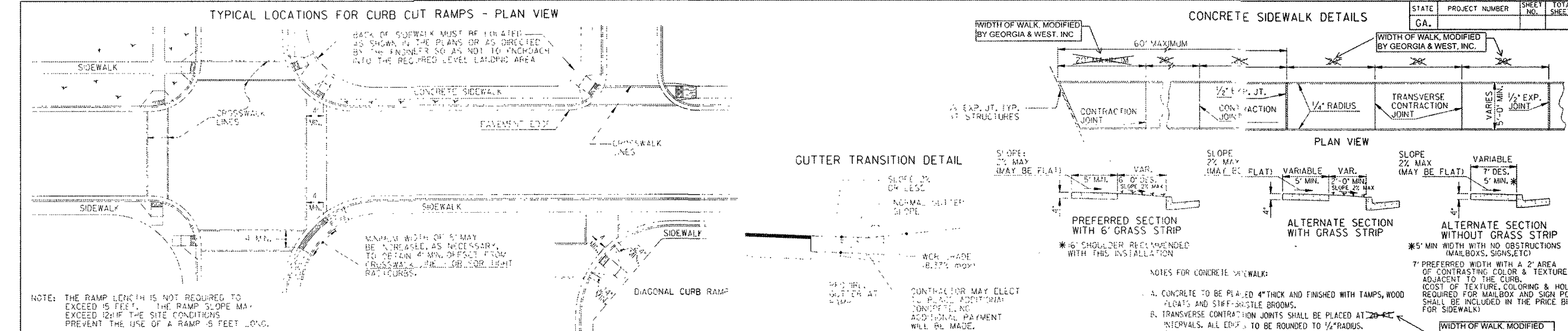
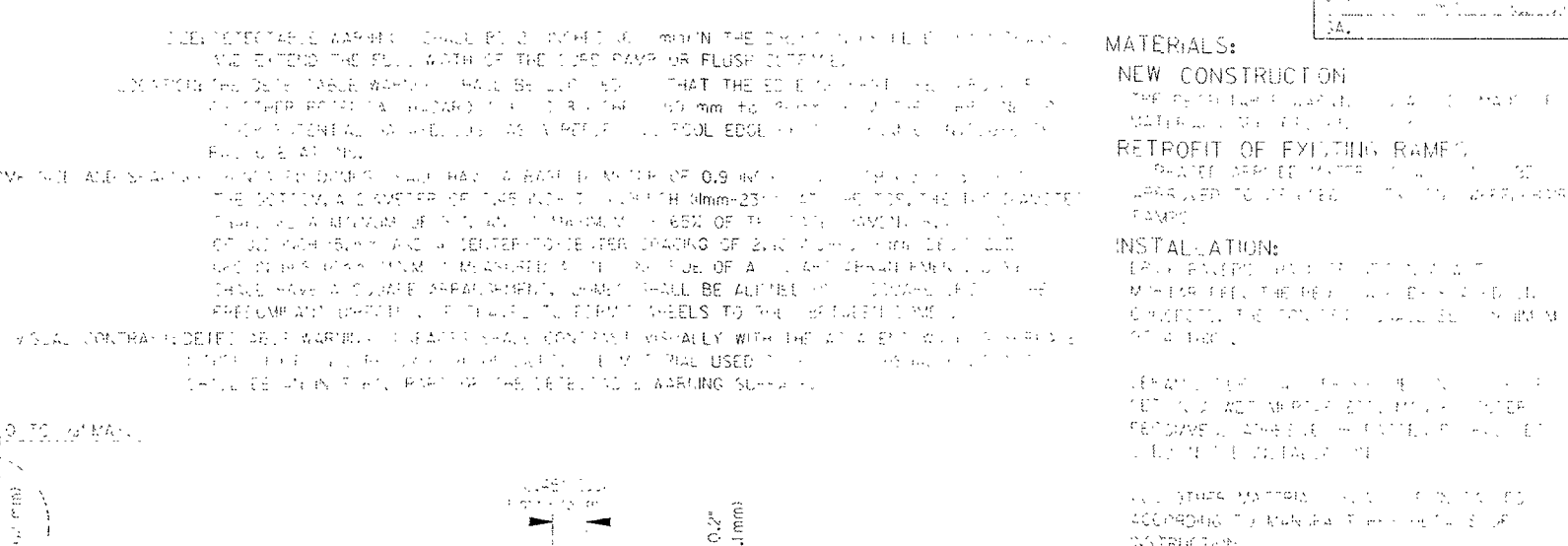
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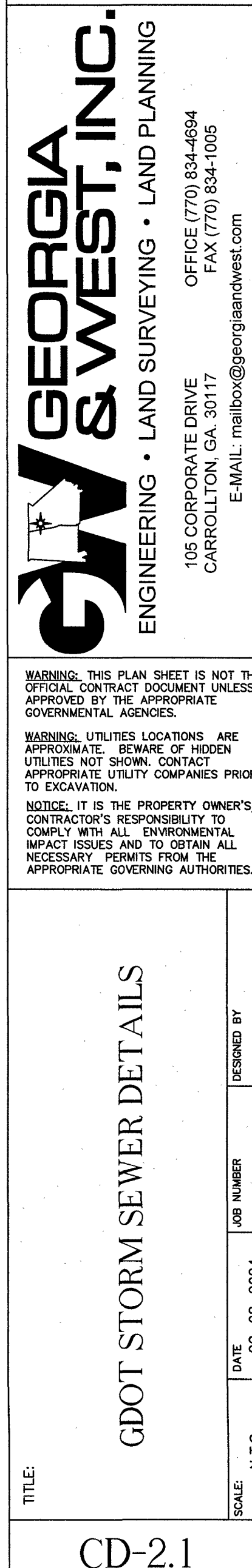
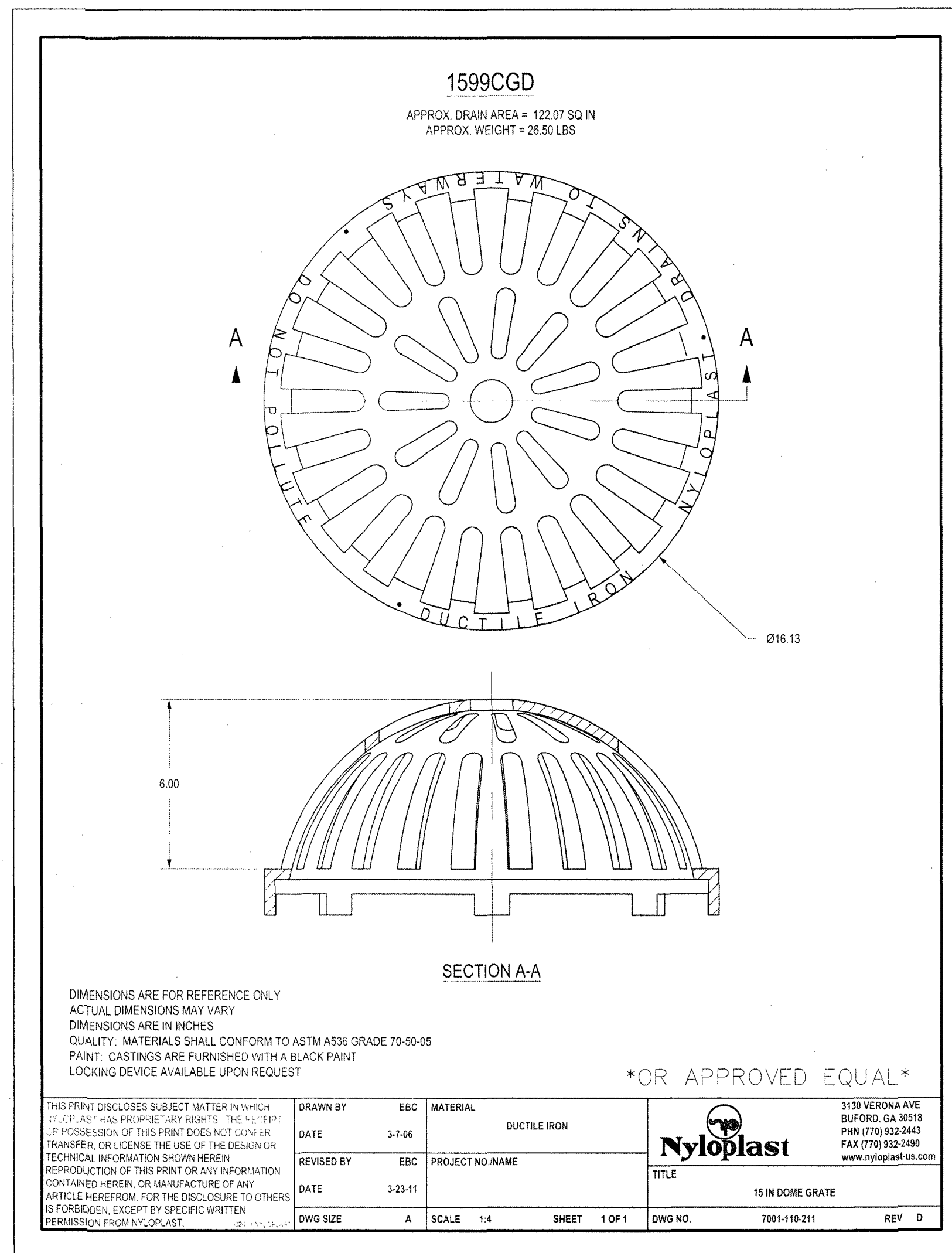
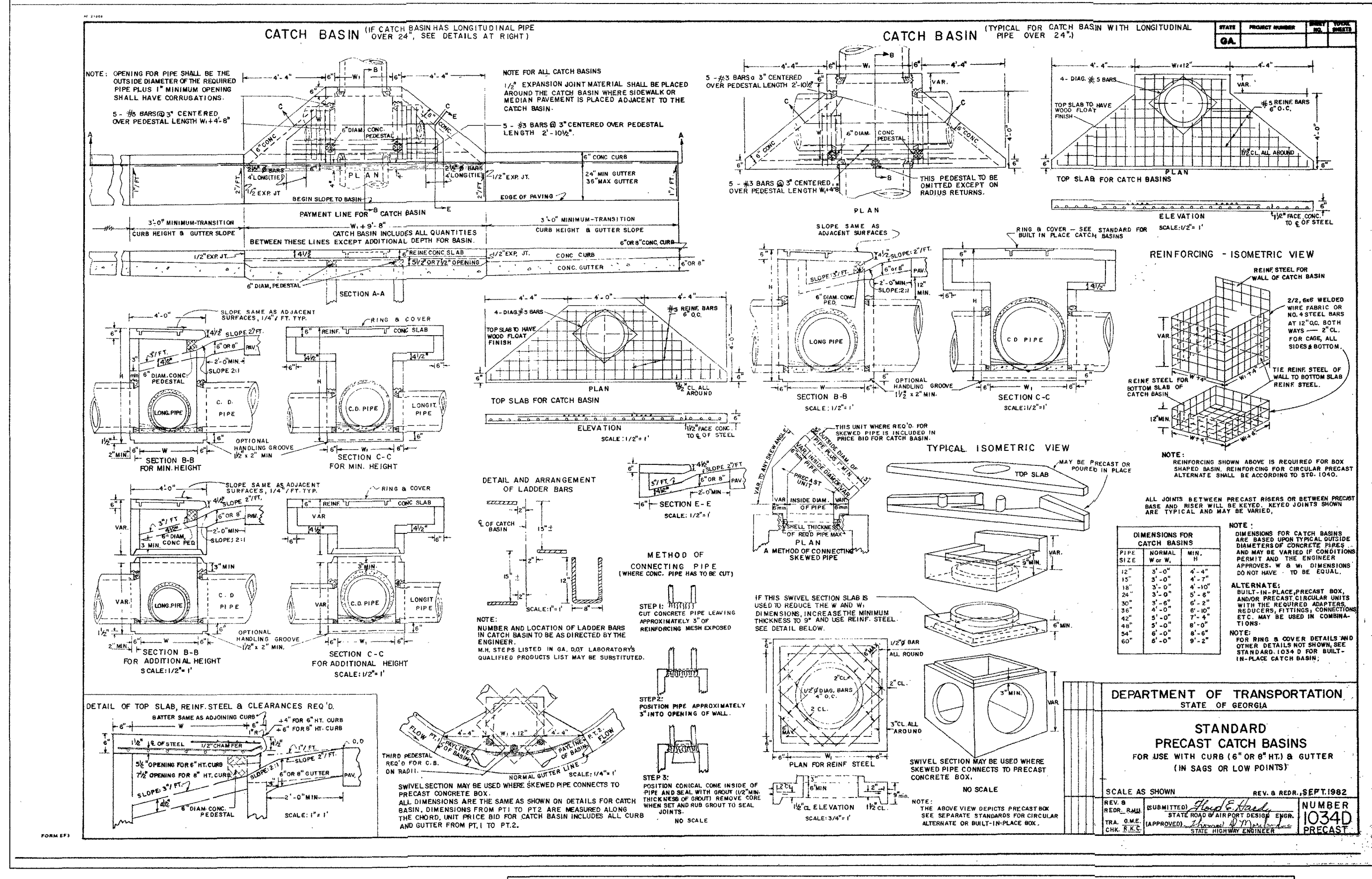
501 LOVORN ROAD

LOCATED IN LL 127 DISTRICT 10
CITY OF CARROLLTON, GEORGIA

DATE: 02-08-2024
JOB NUMBER: 220607
DESIGNED BY: JDB

SCALE: N.T.S.





GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECK DAM			A small temporary barrier or dam constructed across a wide, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the place of construction exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A roadway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DIVERSIONARY STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DIVERSIONARY STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Gd	GARDEN			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRASS STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Rd	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOODING SUMMER			A baffle device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMWATER OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slope left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, air barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Vn	VEGETATED WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the establishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL LINE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are seriously eroded, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCH)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion reducing cover.
Ds2	DISTURBED AREA STABILIZATION (WITH PVP SEEDS)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PVP SEEDS)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cd	FLUCCULANTS AND COAGULANTS			Substances formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STABILIZATION (WITH FERTILIZER)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TERRACES AND BERMES			Substance used to anchor straw or hay matting by causing the organic material to bind together.

GSWCC (Amended - 2013)

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GEORGIA
EROSION CONTROL DETAILS
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SCALE: N.T.S.
DATE: 02-08-2024
JOB NUMBER:
DESIGNED BY:
N.T.S.

CD-3.0

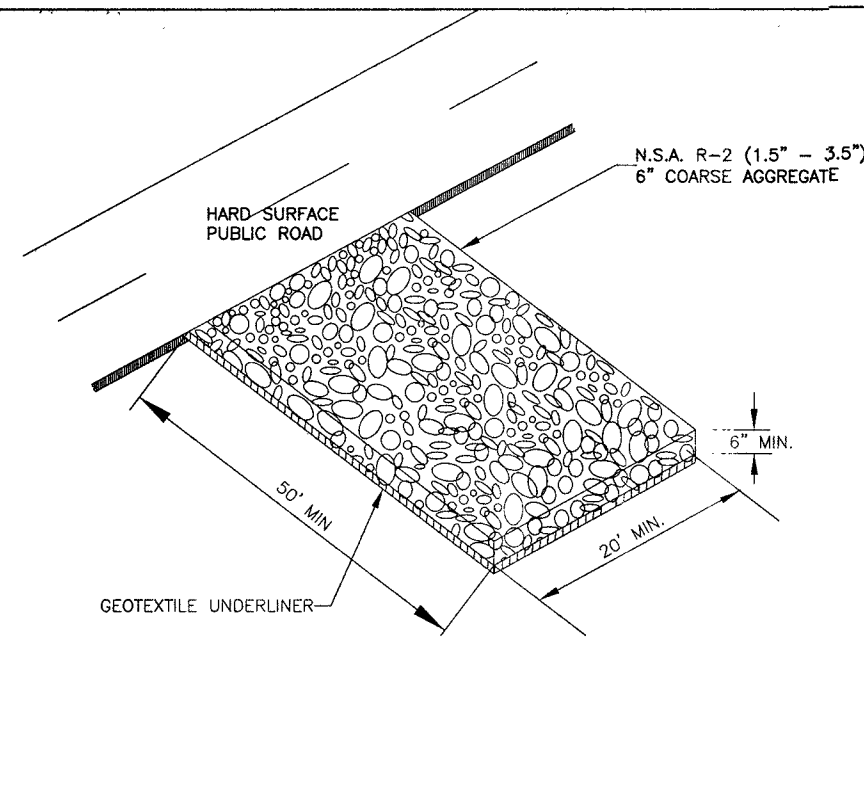
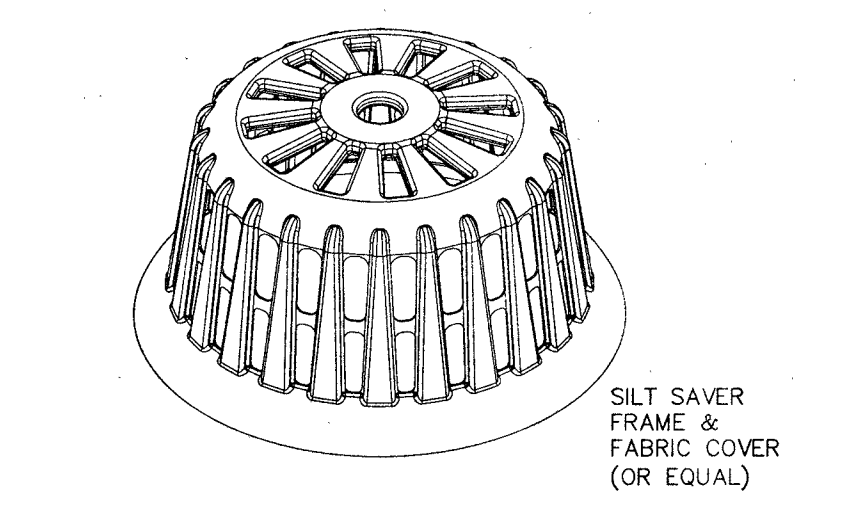


FIGURE 6-11.1
Co CRUSHED STONE CONSTRUCTION EXIT



Sd2 ALTERNATIVE SEDIMENT TRAP

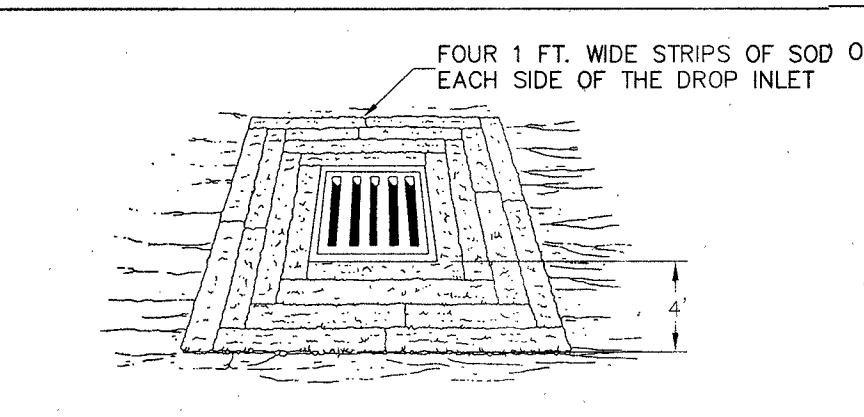


FIG. 6-14.8 - SOD STRIPS PROTECT INLET AREA FROM EROSION (SOURCE: VA SWCC)
Sd2-S SOD INLET PROTECTION

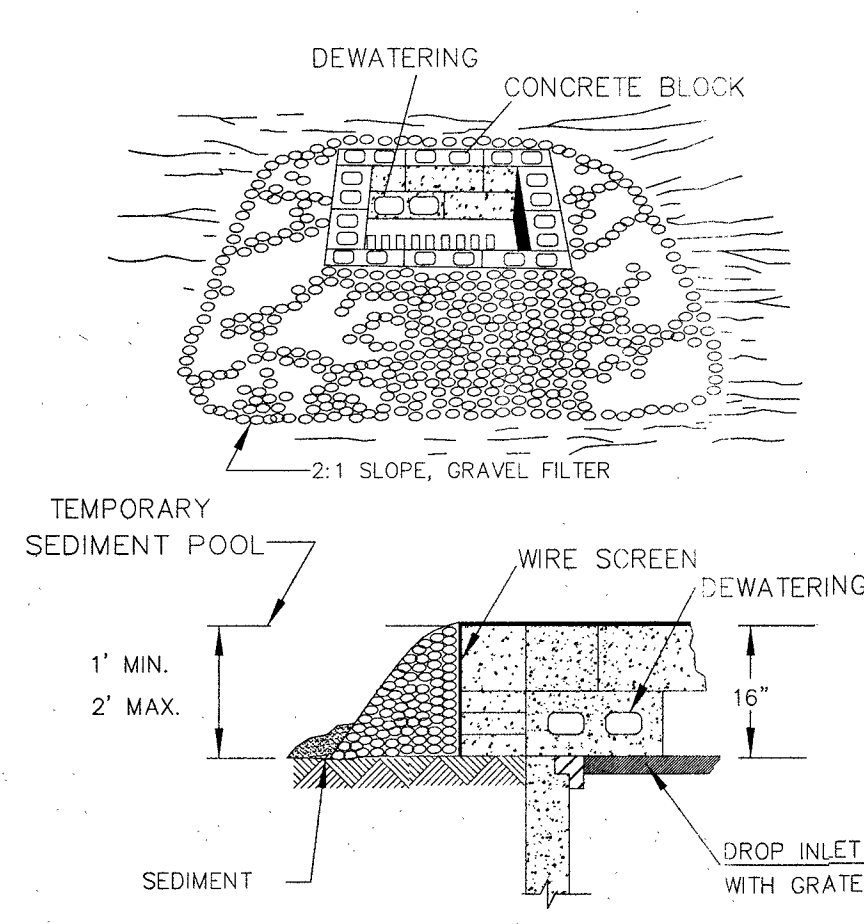


FIGURE 6-21.3
Sd2-Bg BLOCK AND GRAVEL DROP INLET PROTECTION

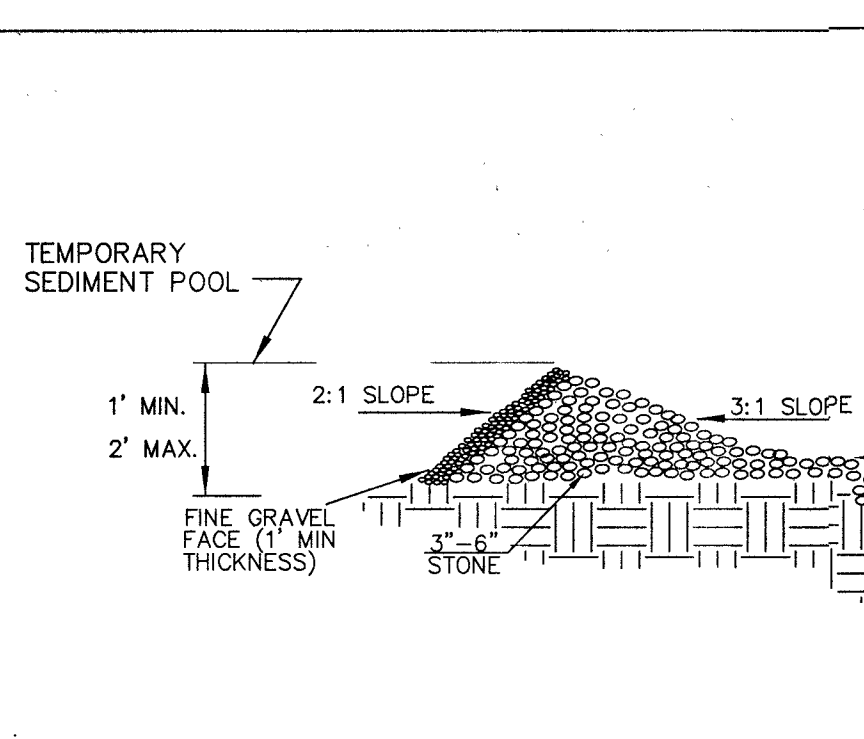


FIGURE 6-21.4
Sd2-G GRAVEL DROP INLET PROTECTION (GRAVEL DONUT)

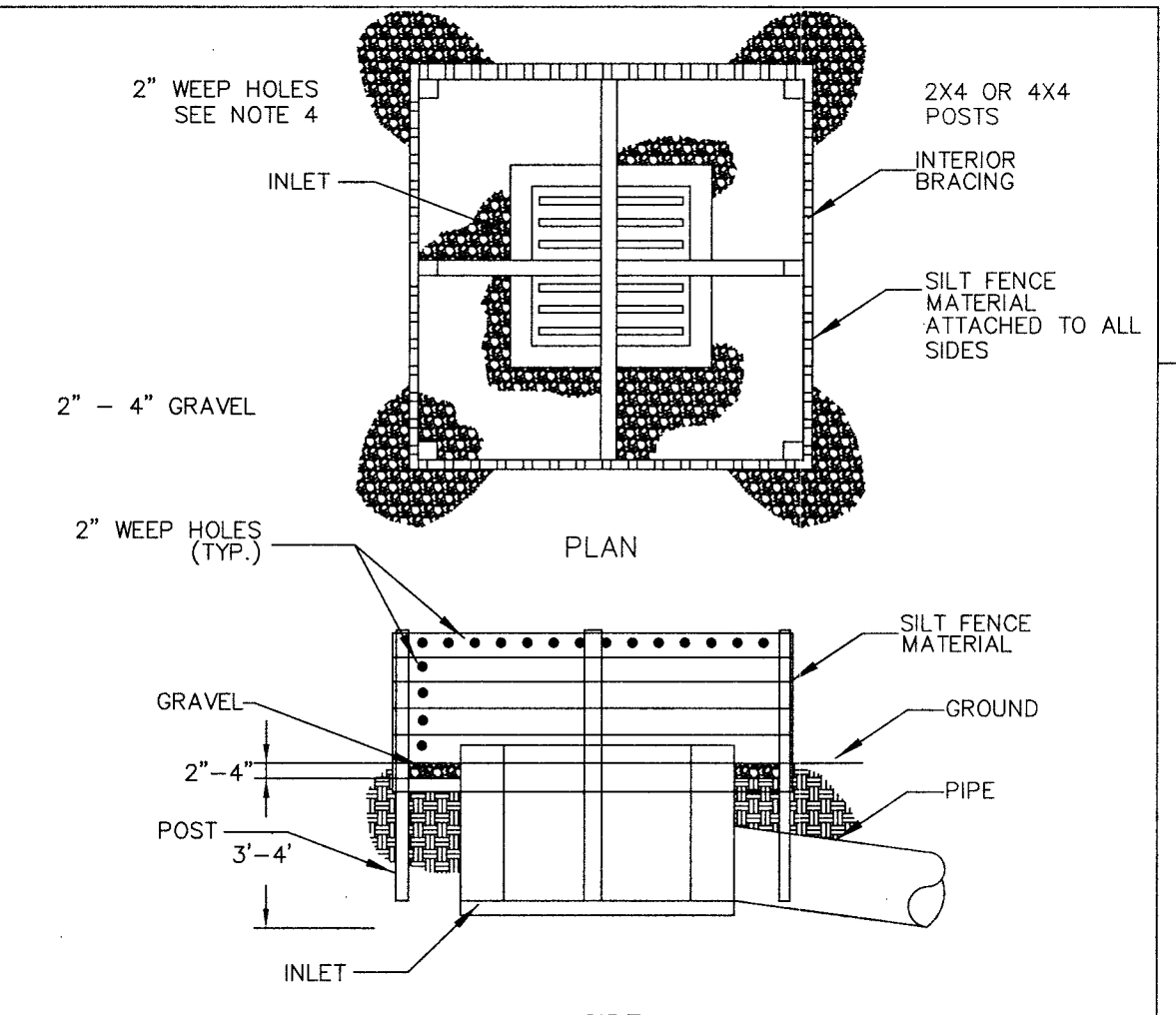
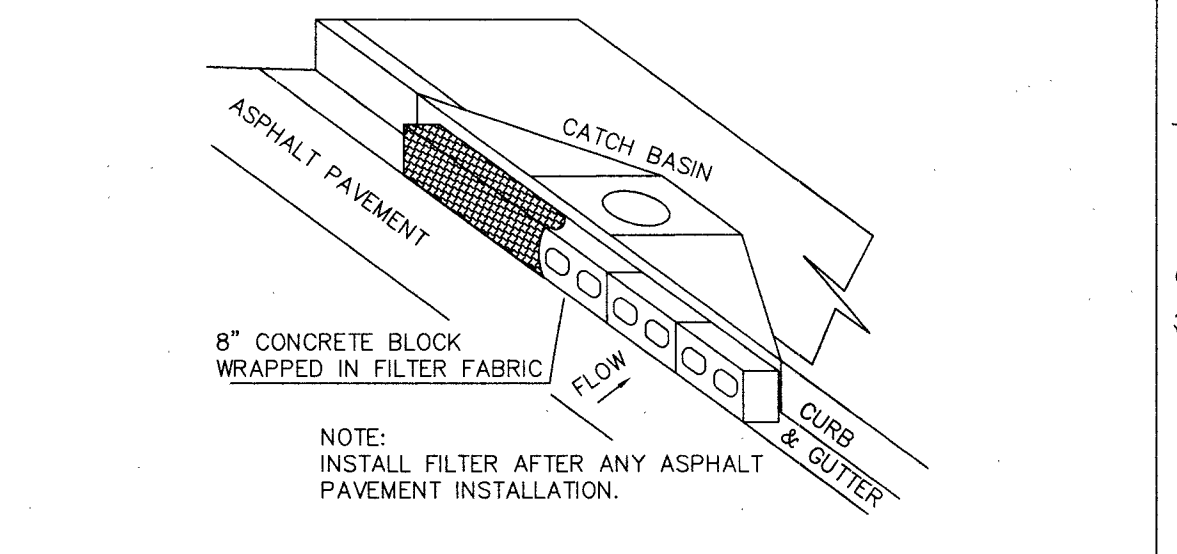


FIGURE 6-21.2
Sd2-B BAFFLE BOX



INFORMATION OBTAINED FROM FIGURE 6-21.5
Sd2-P CURB INLET FILTER "PIGS IN BLANKET"

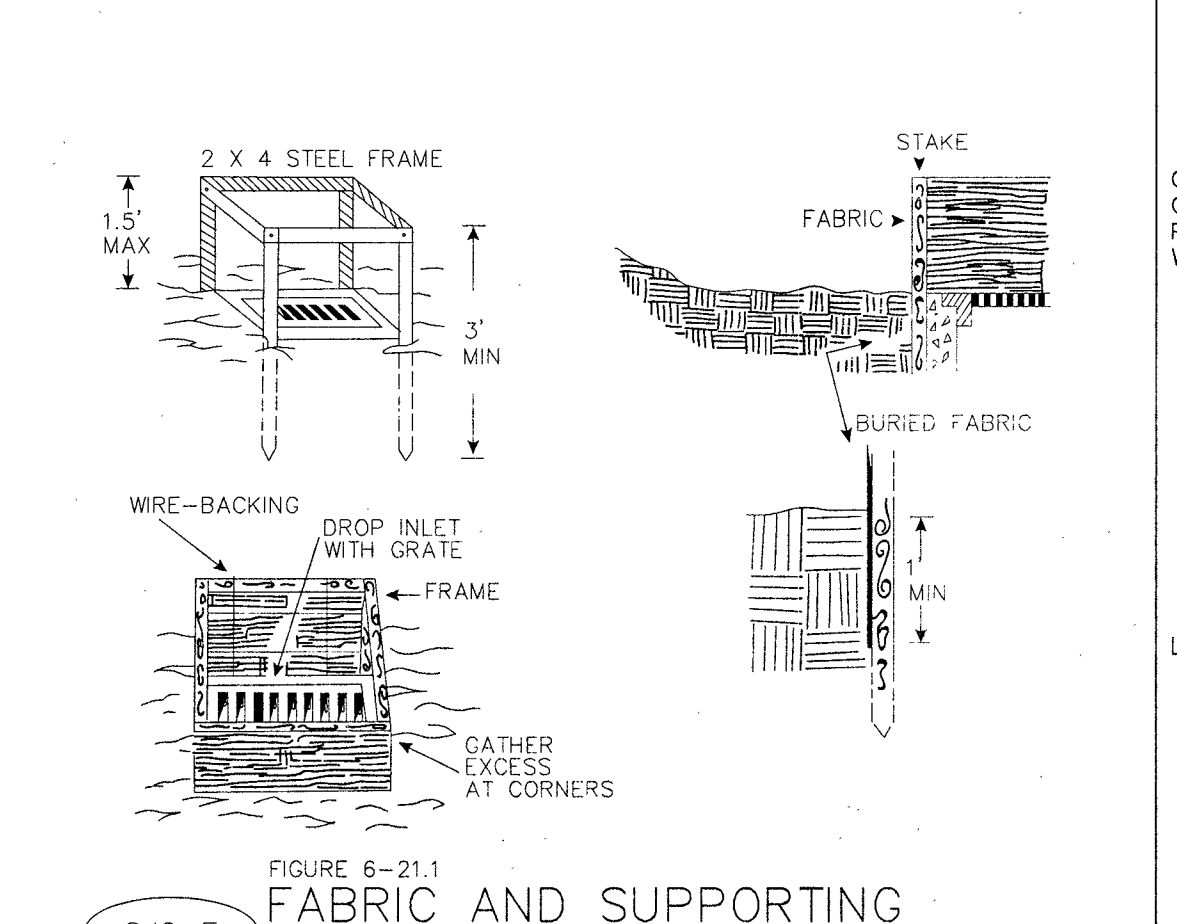


FIGURE 6-21.1
Sd2-F FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

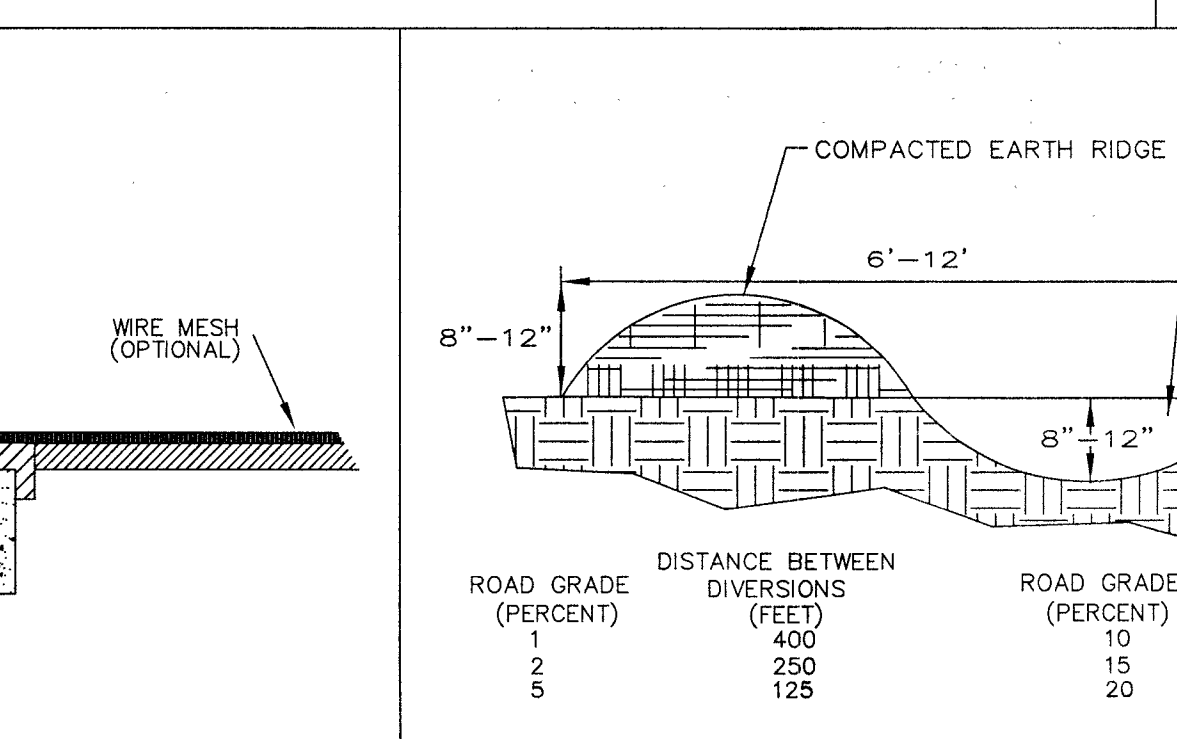


FIGURE 6-13.1
DI DIVERSION CHANNEL

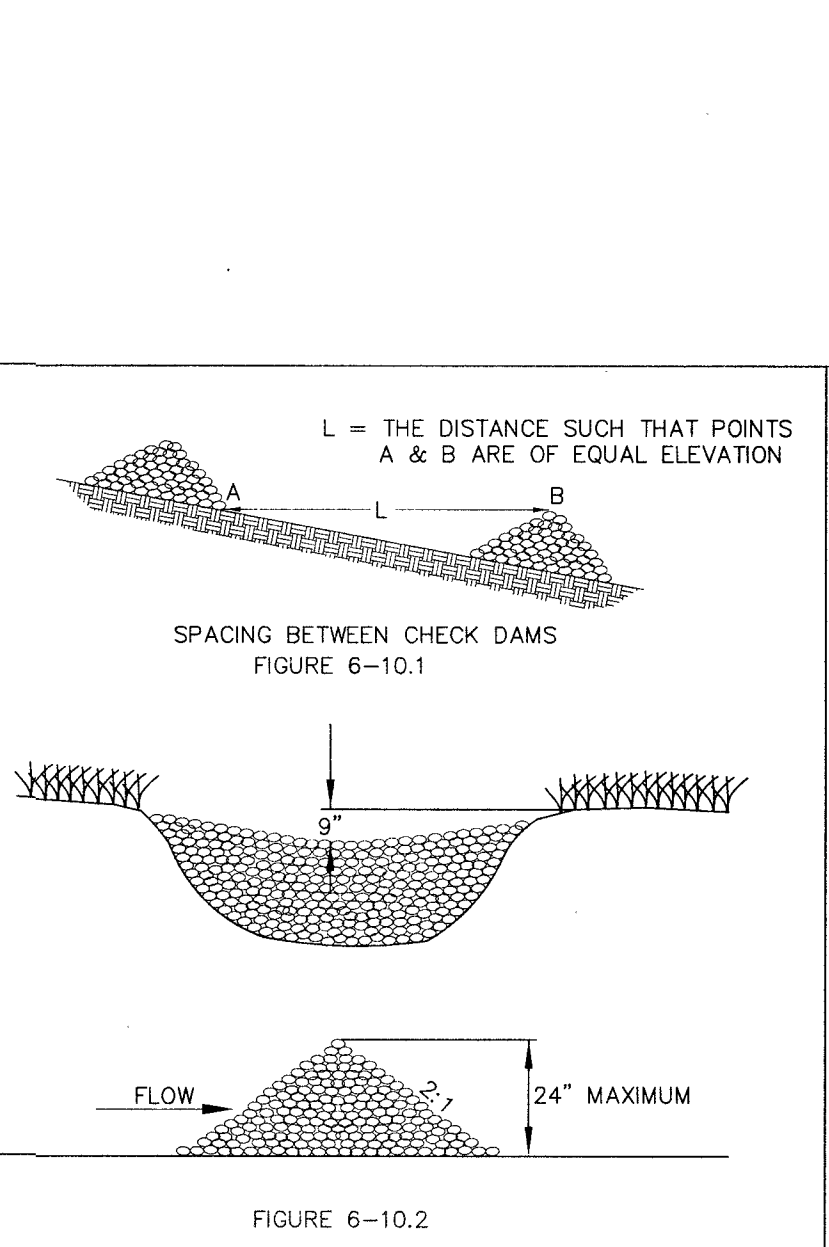


FIGURE 6-10.2
Cd-S STONE CHECK DAM

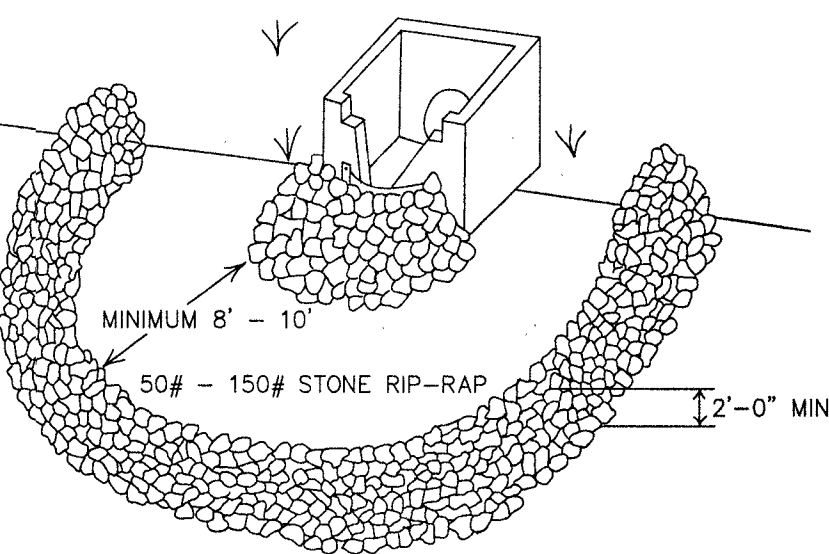
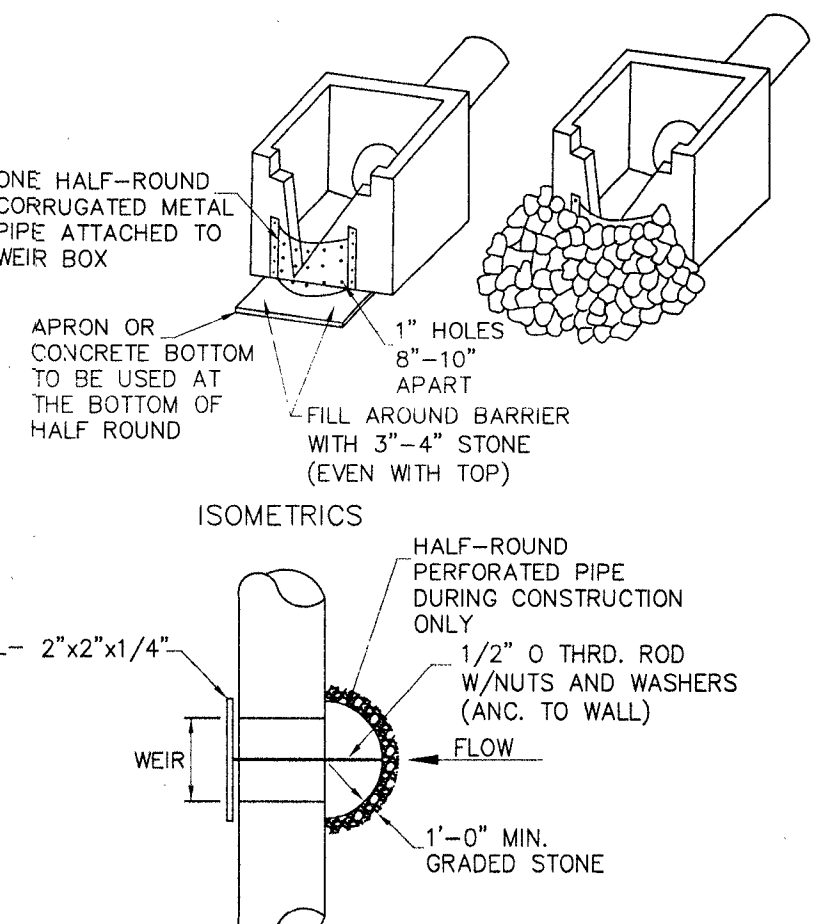
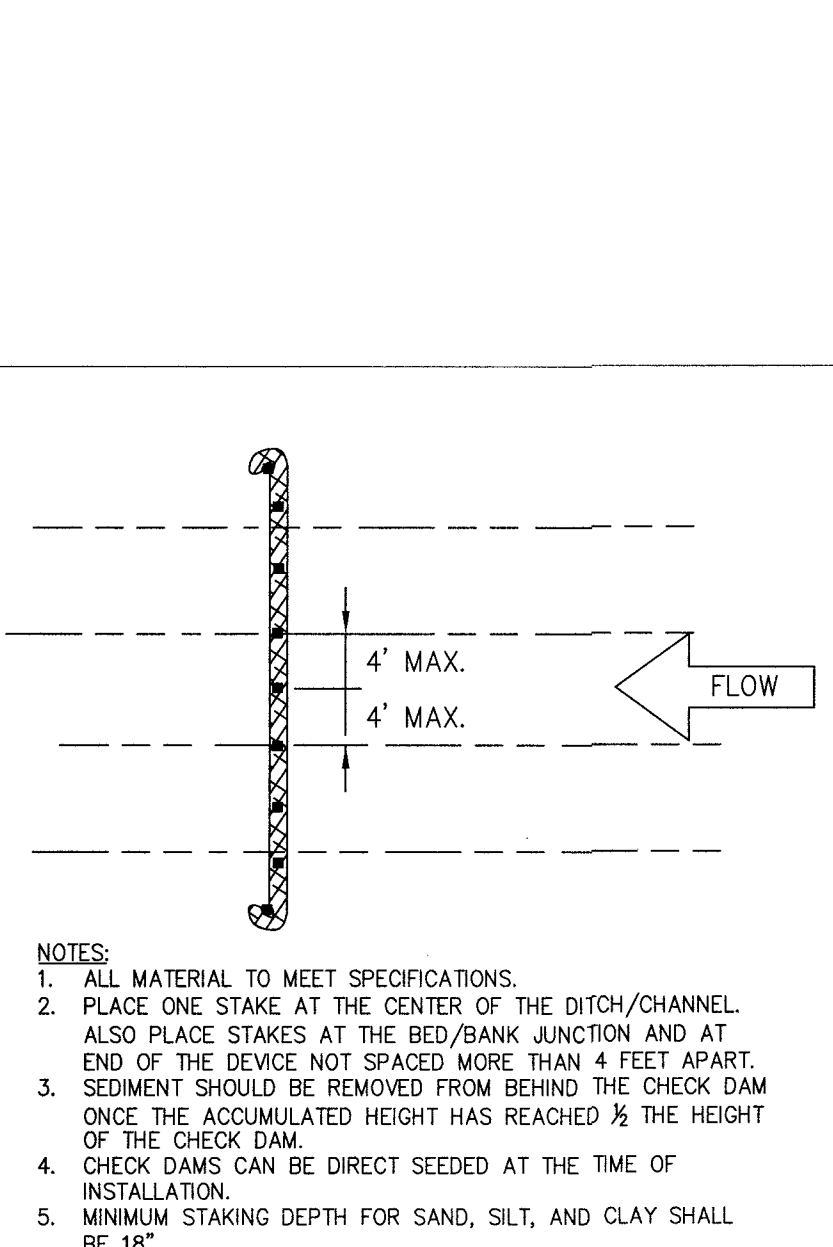


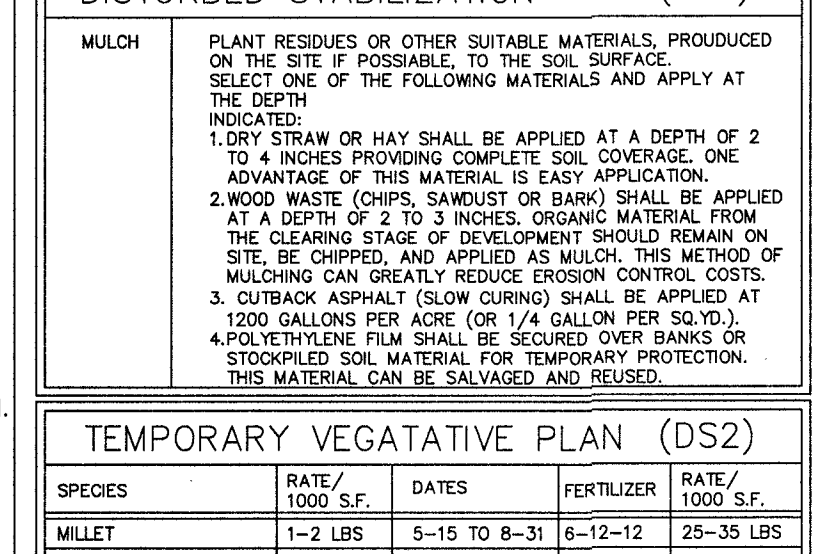
FIGURE 6-15.1
Fr STONE FILTER RING



PERFORATED HALF-ROUND PIPE WITH STONE FILTER RETROFITTING
FIGURE 6-19.1
Rt



CD-Fs FILTER SOCK CHECK DAM



DISTURBED STABILIZATION (DS1)

TEMPORARY VEGETATIVE PLAN (DS2)					
SPECIES	RATE/1000 S.F.	DATES	FERTILIZER	RATE/1000 S.F.	
MULCH	1-2 LBS	5-15 TO 8-31	6-12-12	25-35 LBS	
MILLET	2-3 LBS	10-15 TO 2-15	6-12-12	25-35 LBS	
RYE	2-3 LBS	10-15 TO 2-15	6-12-12	25-35 LBS	

PERMANENT GRASSING PLAN (DS3)					
SPECIES	RATE/1000 S.F.	DATES	FERTILIZER	RATE/1000 S.F.	
WEEDING LOVEGRASS	2-4 LBS	3-1 TO 6-15	6-12-12	25-35 LBS	
VIRATA OF SERICEA LESPEDEZIA (SCARIFIED)	1-2 LB.	9-1 TO 11-1	6-12-12	25-35 LBS	
ALL FESCUE GRASS	8-10 LB.	9-1 TO 11-1	6-12-12	25-35 LBS	
BERMUDA GRASS (MULCHED)	2-3 LB.	3-15 TO 6-15	6-12-12	25-35 LBS	
STRAW MULCH	90 LB.	ANY TIME FOR TEMPORARY COVER.			

NOTES:
1. ALL AREAS TO BE SEED SHALL HAVE LIME APPLIED AT THE RATE OF 90 LBS. PER 1000 S.F. LIME & FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND WATER THOROUGHLY WITH THE SOIL.
2. ALL AREAS SEED SHALL HAVE AN APPLICATION OF STRAW MULCH IMMEDIATELY AFTER APPLICATION OF SEED & FERTILIZER. APPROXIMATELY 2 TONS PER ACRE.
3. PERMANENT GRASSING OCT. - JUNE, ALL OTHER MONTHS USE TEMPORARY GRASSING & REPLANT.
4. USE TEMPORARY GRASSING IF INACTIVE DISTURBED AREA IS TO BE EXPOSED FOR MORE THAN 14 DAYS.
5. REFER TO TABLE 6-5.1, 2, 3, & 4 FOR COMPLETE VEGETATIVE CHARTS AND FERTILIZER REQUIREMENTS.
6. PERMANENT GRASSING FOR FINAL SITE STABILIZATION MUST ACHIEVE A DENSITY OF 70% OR GREATER OVER 100% OF THE DISTURBED AREA.

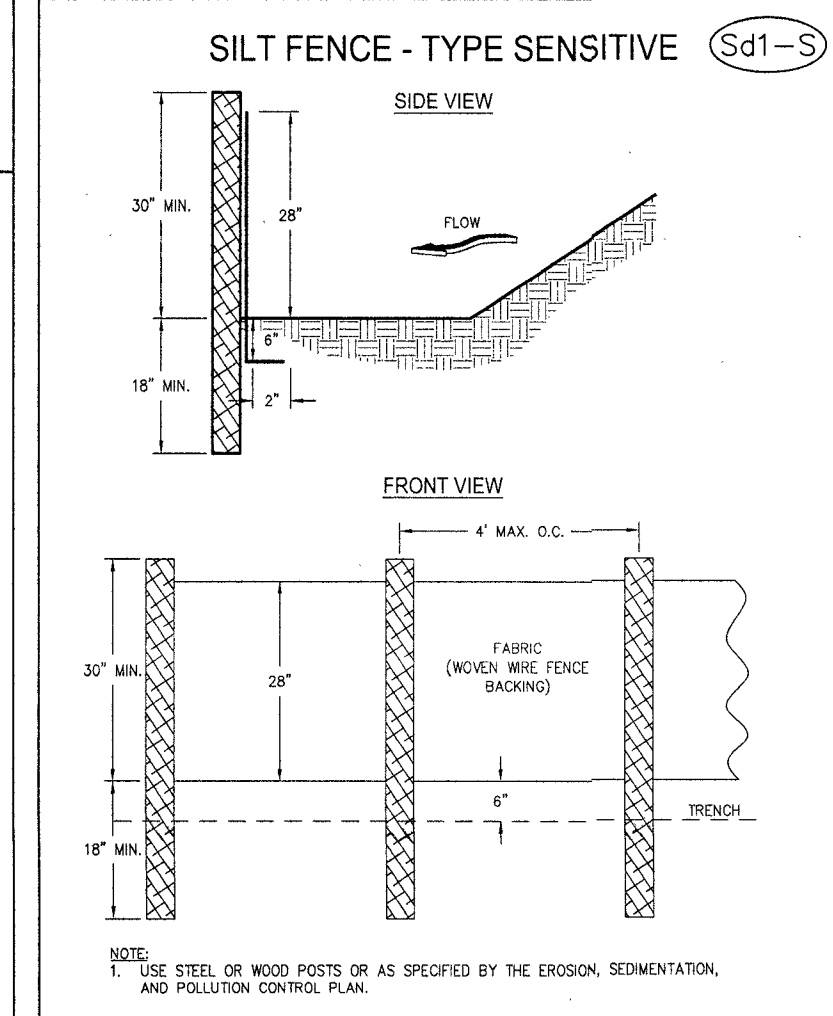


FIGURE 6-18.1
Sd1-S SILT FENCE - TYPE SENSITIVE

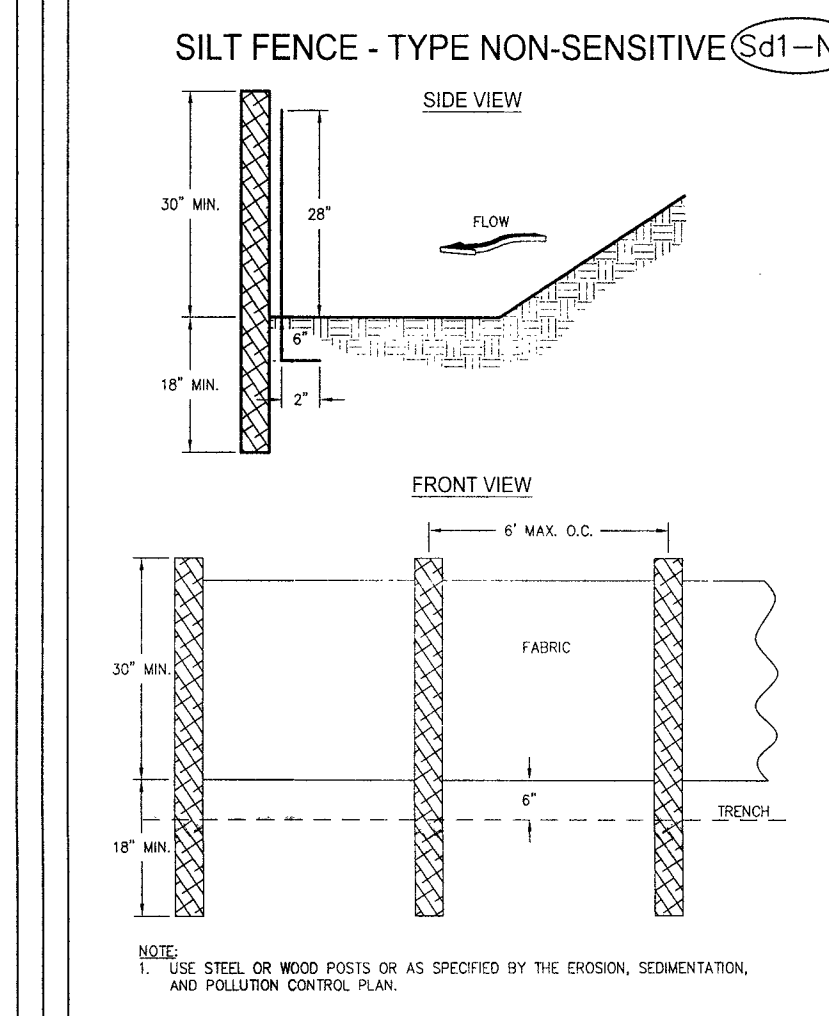


FIGURE 6-18.2
Sd1-NS SILT FENCE - TYPE NON-SENSITIVE

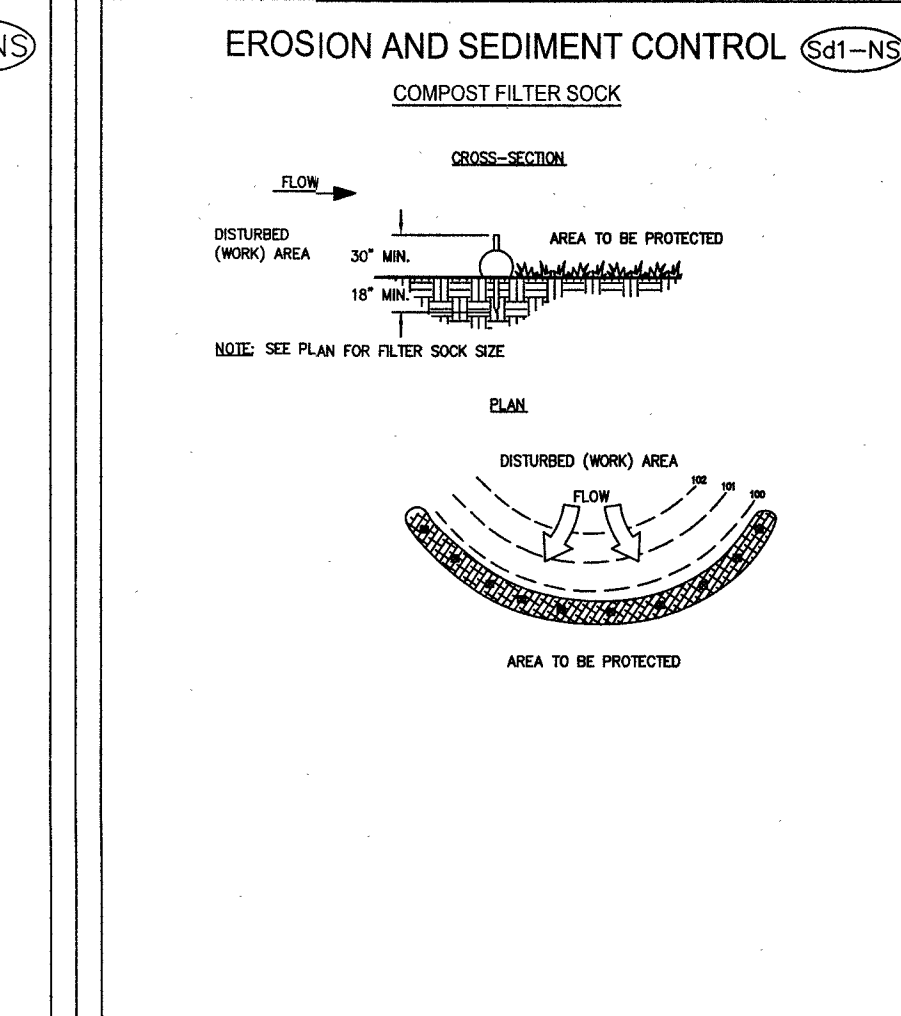
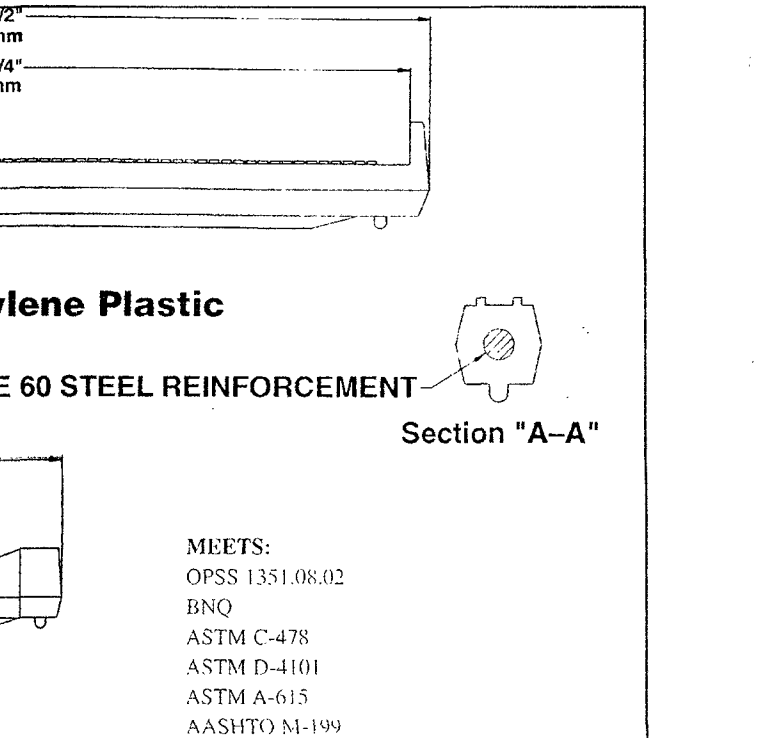
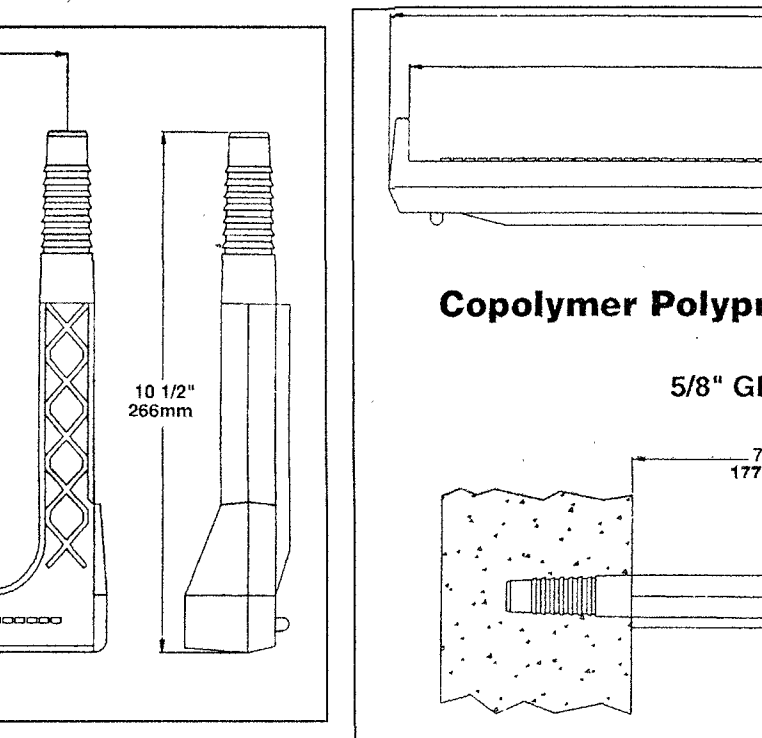
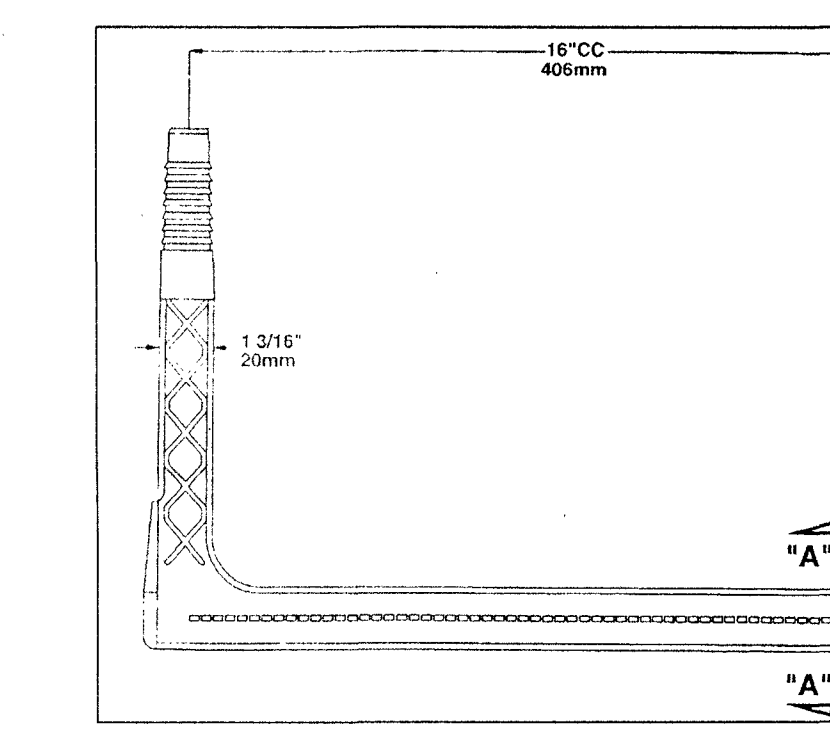
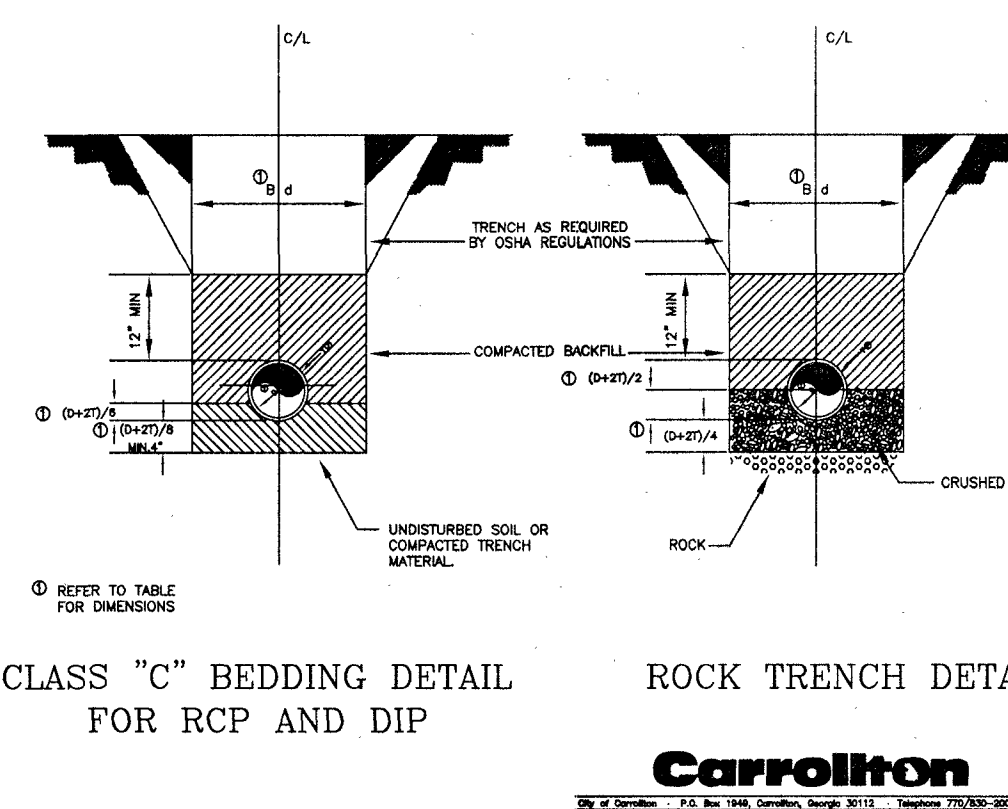
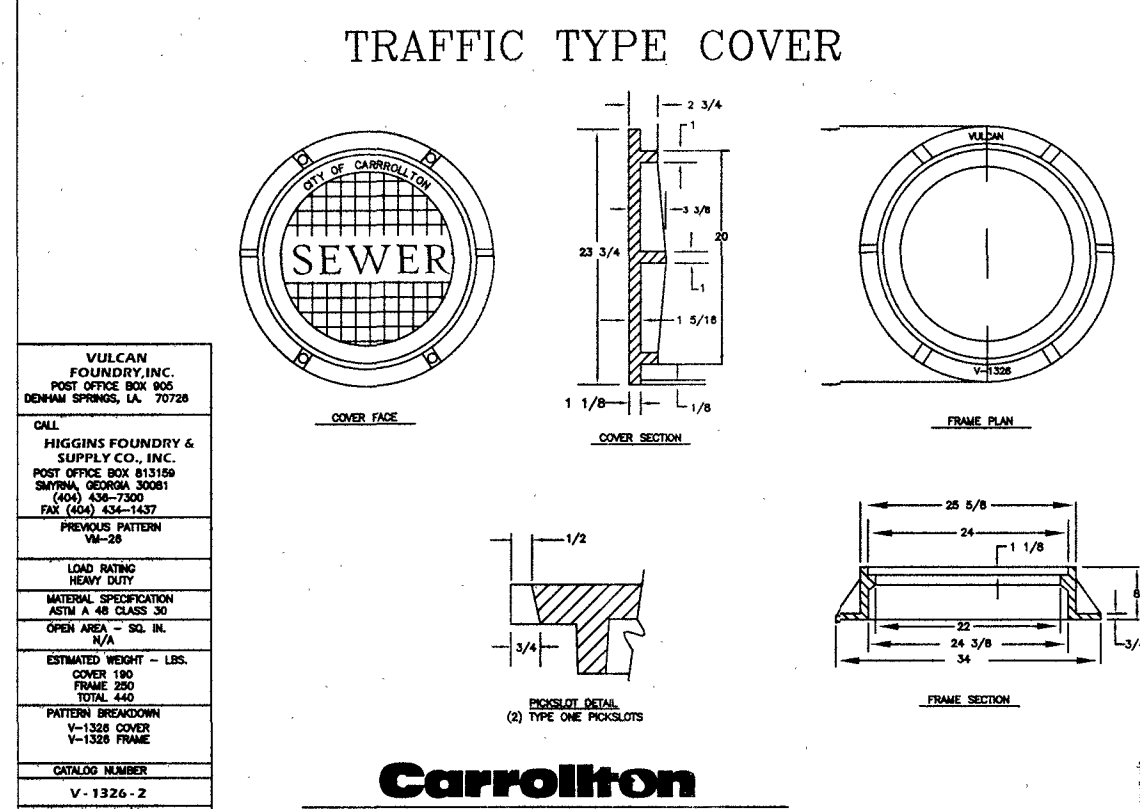
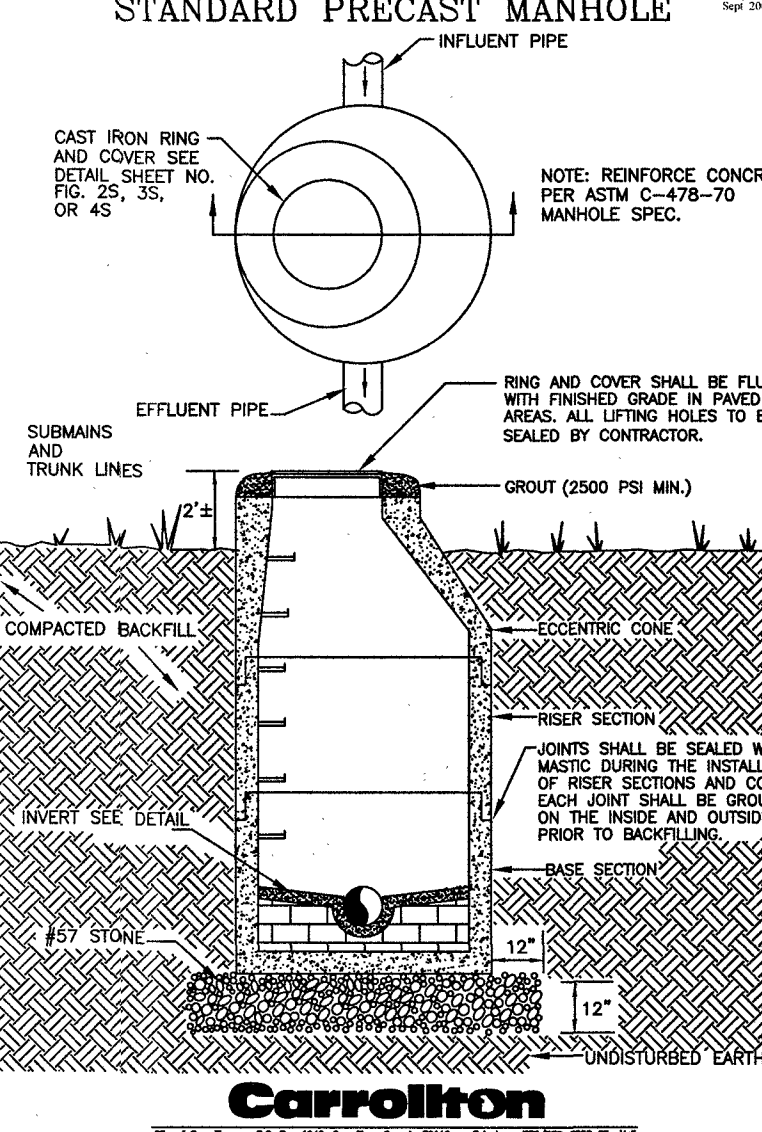
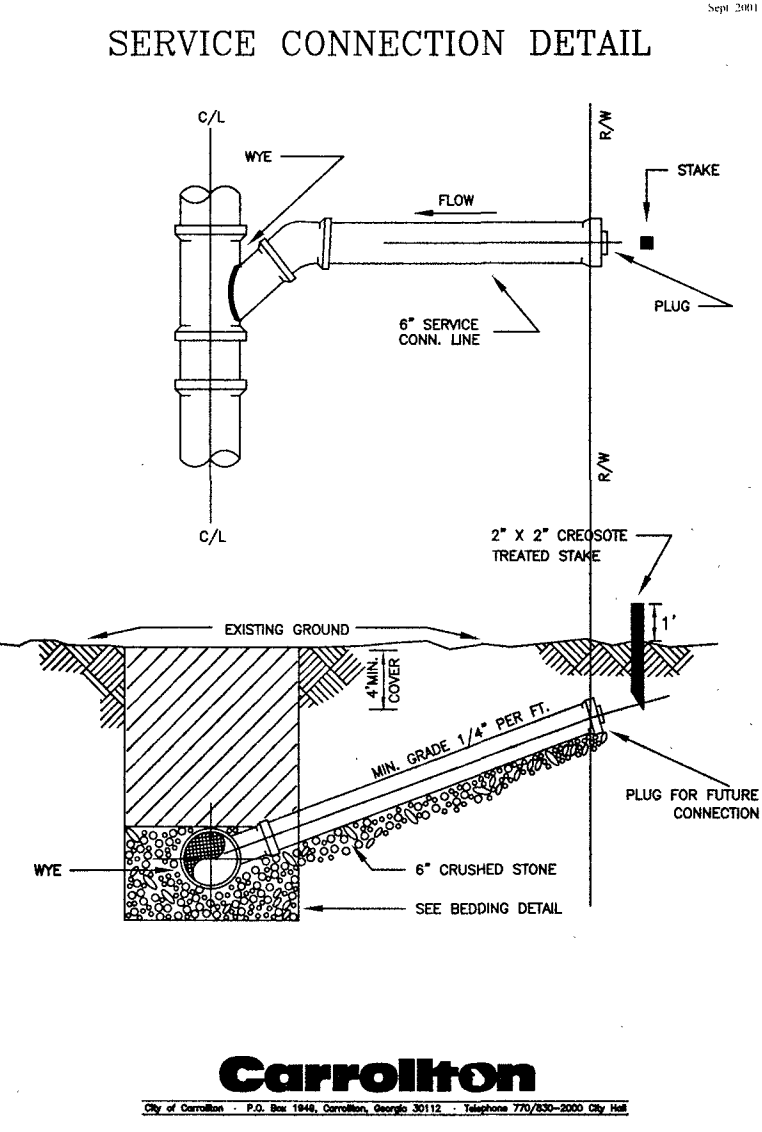
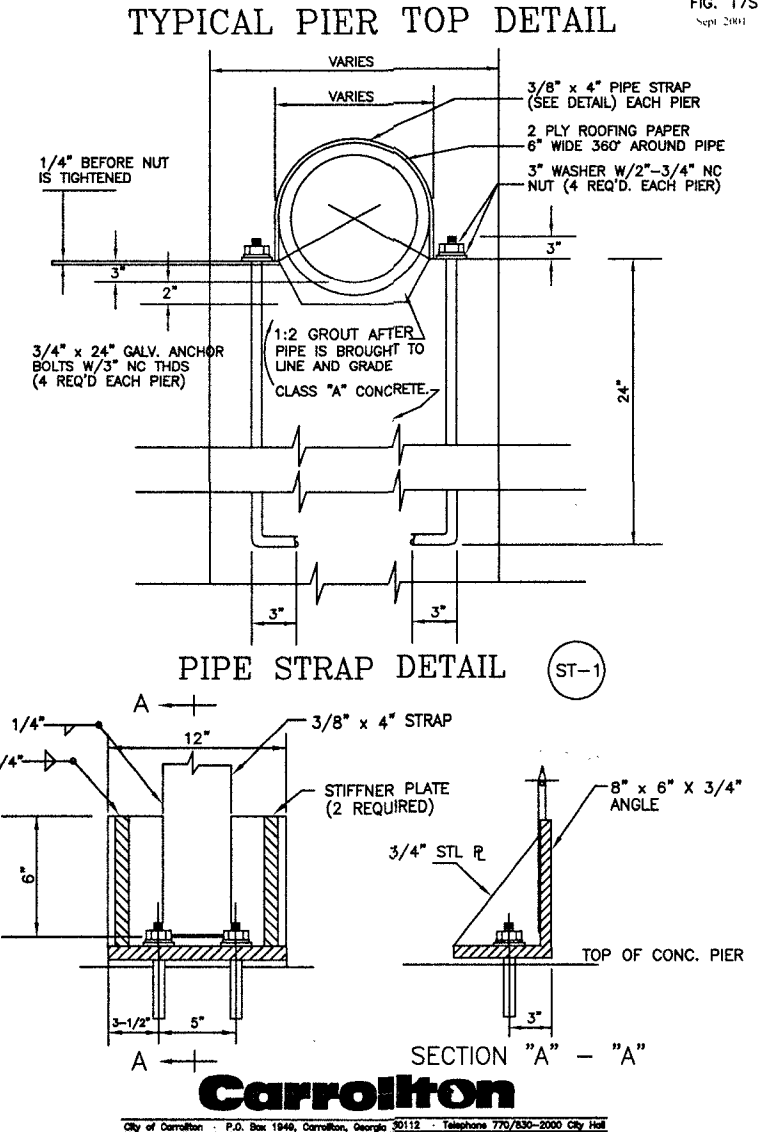
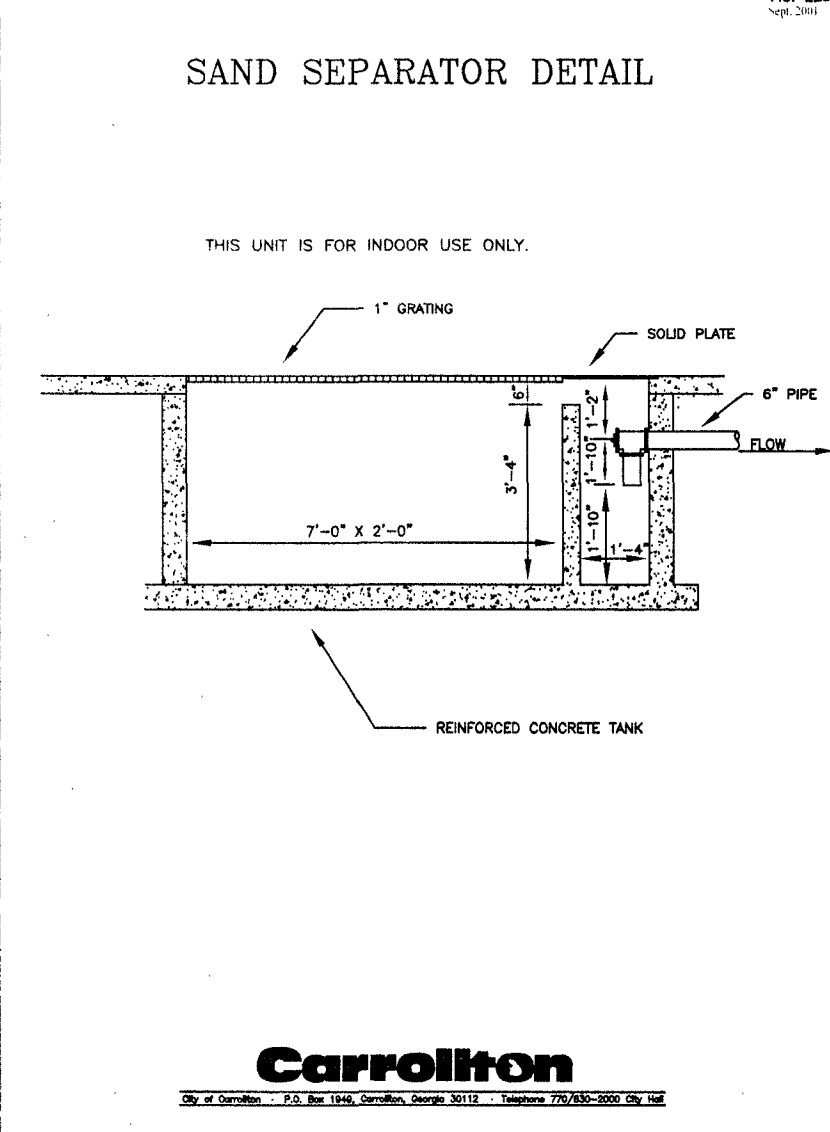
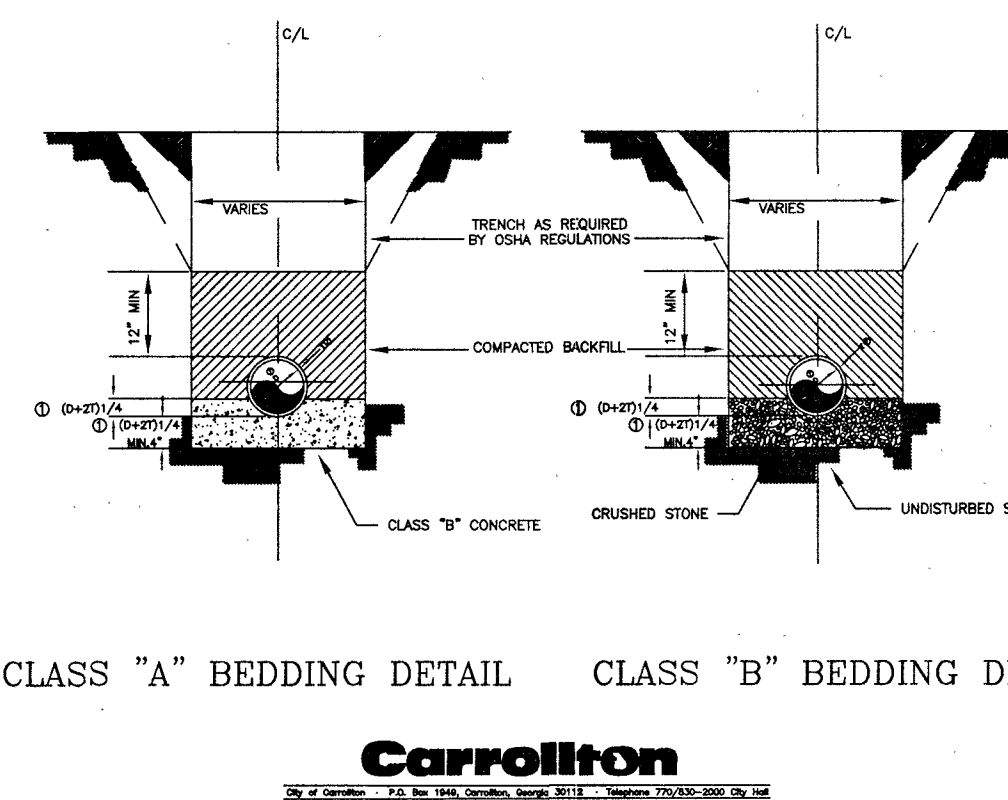
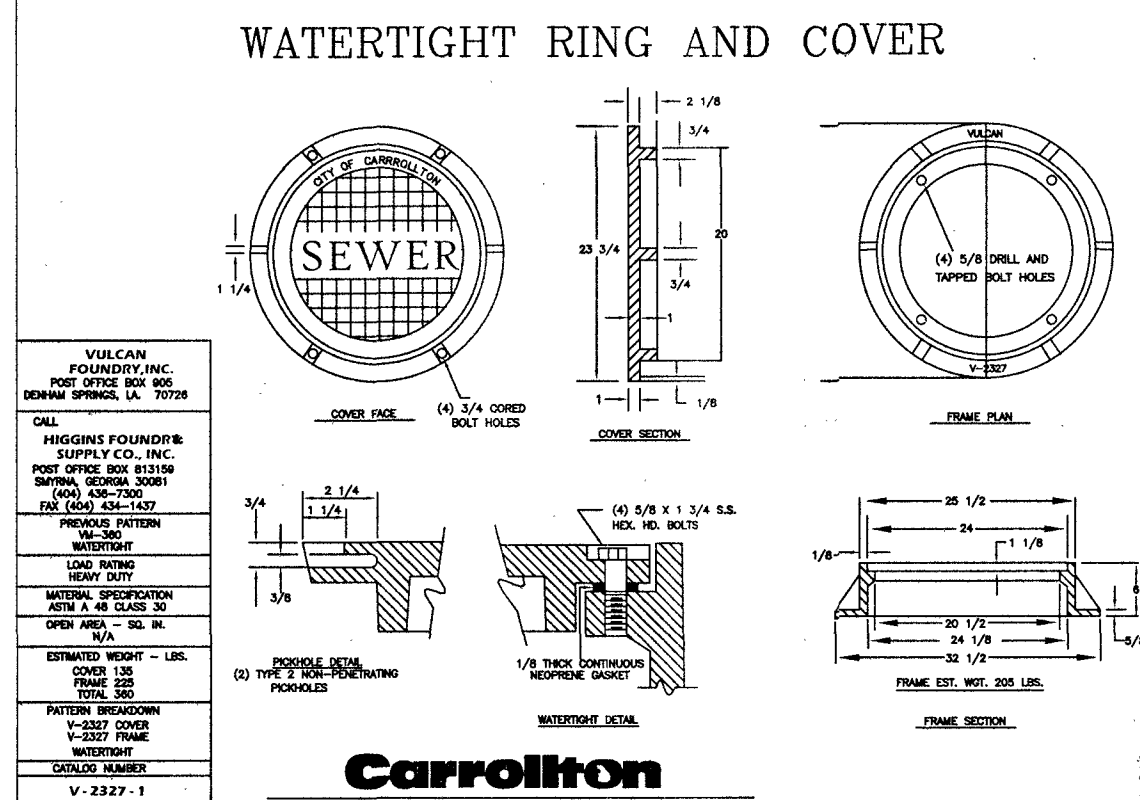
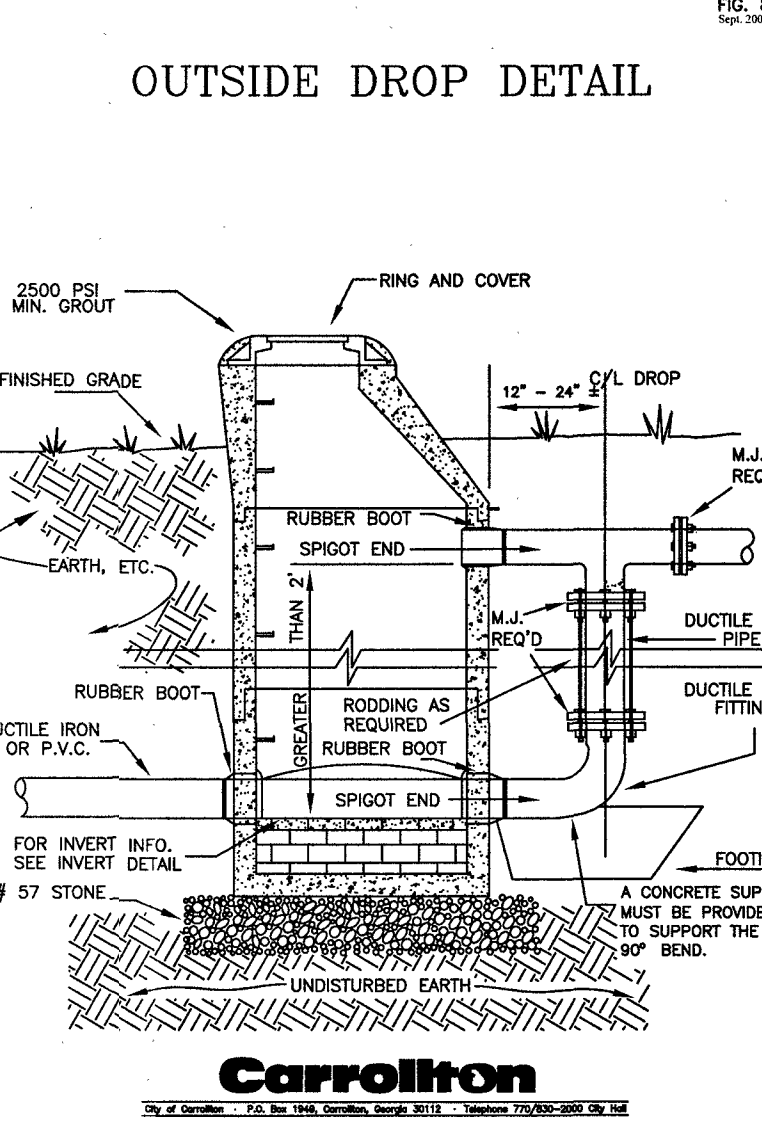
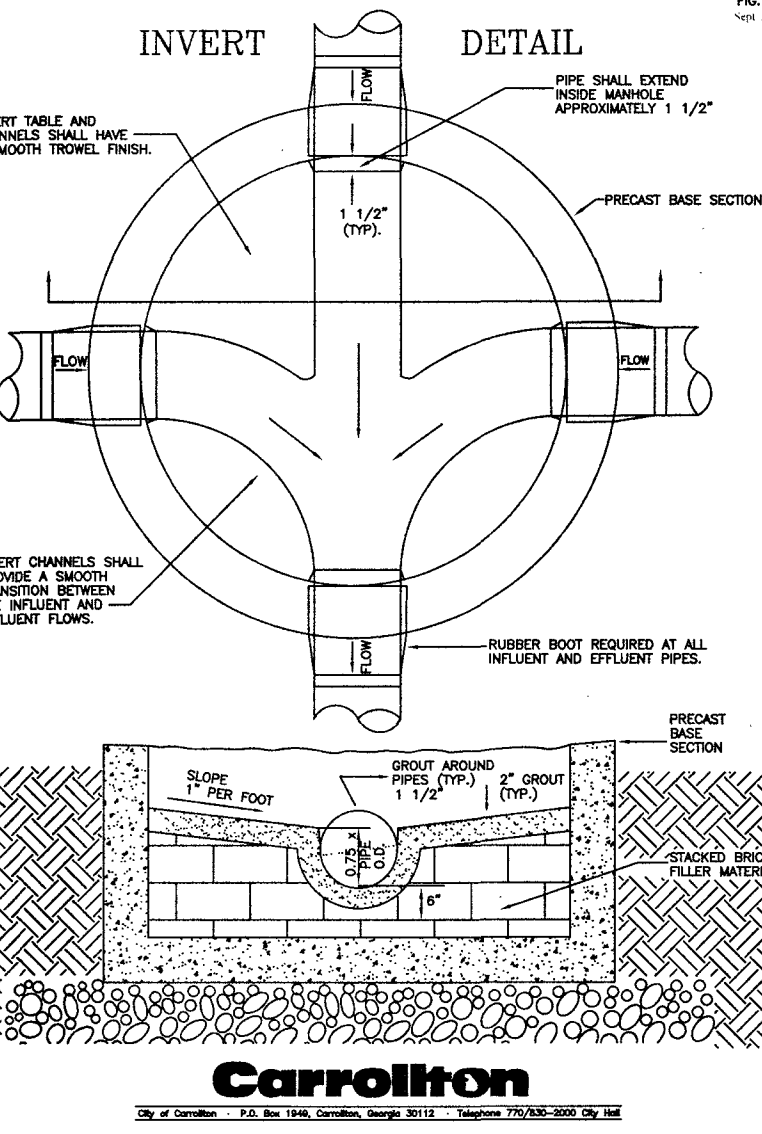
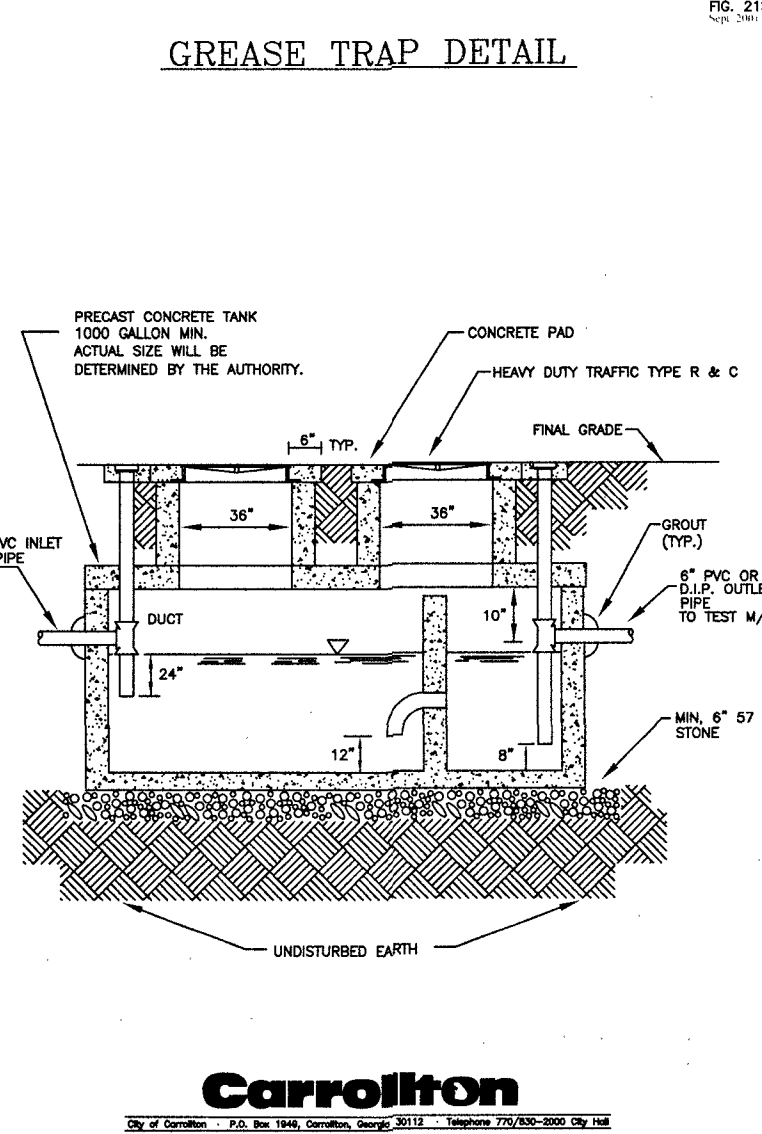
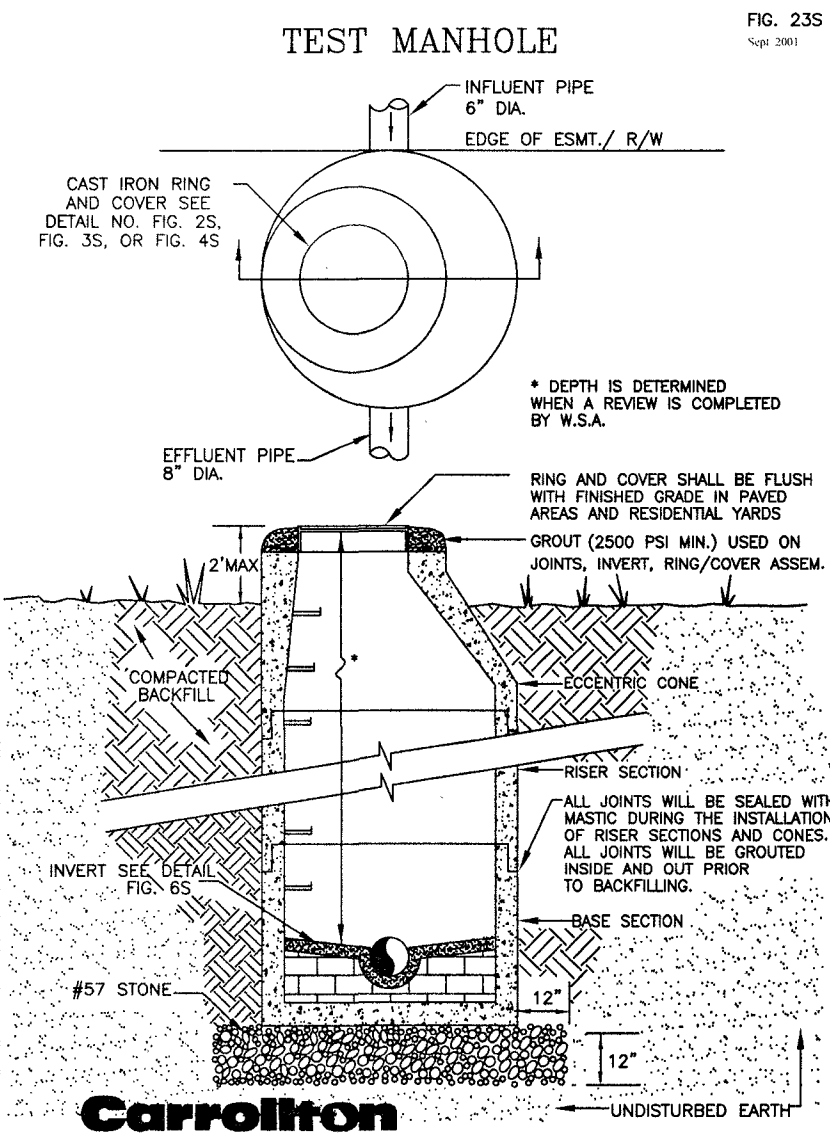
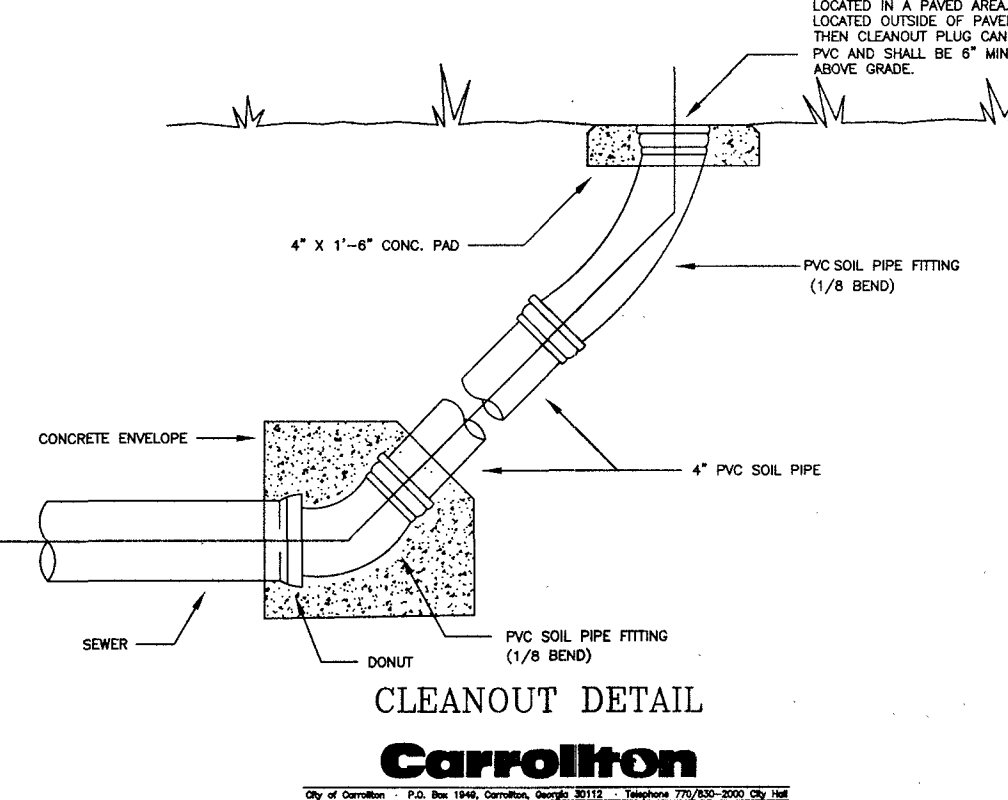
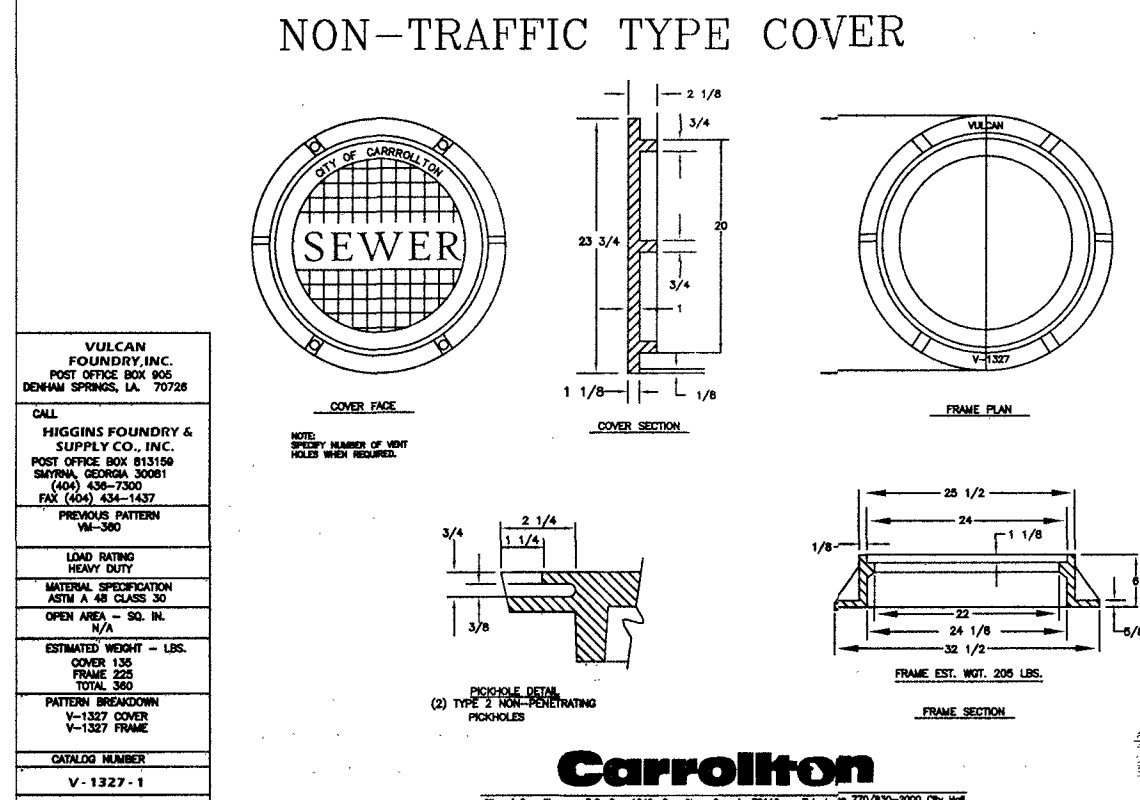
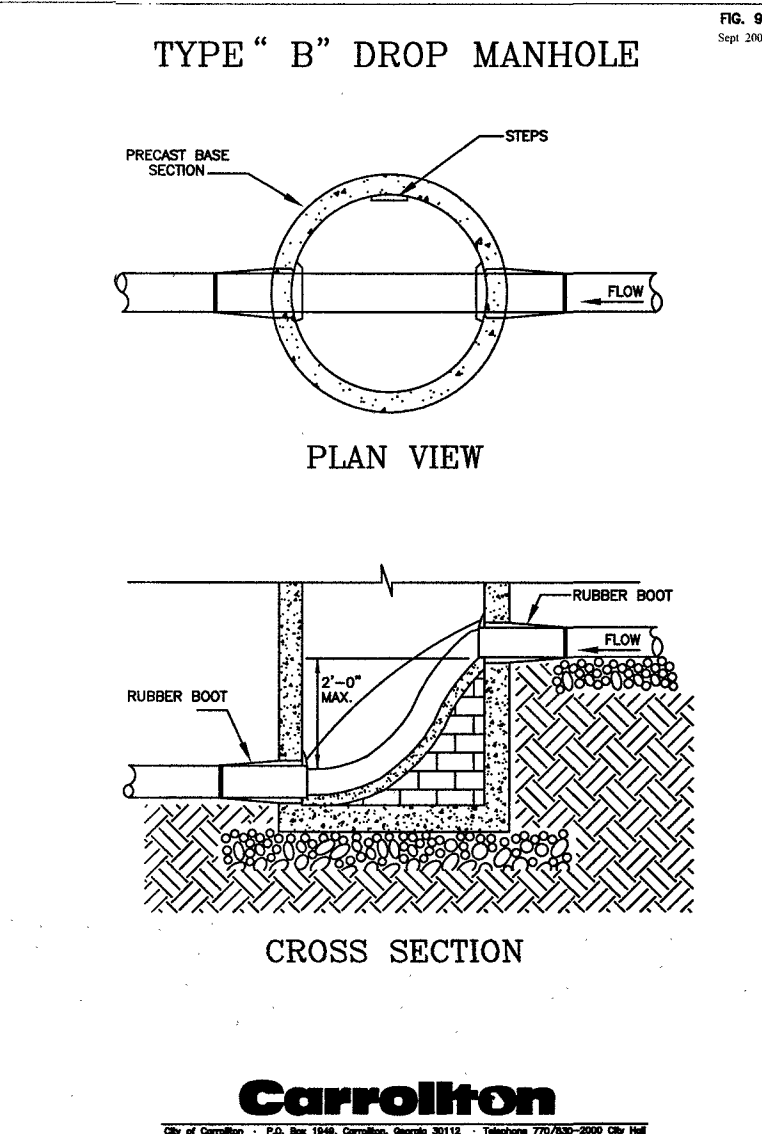
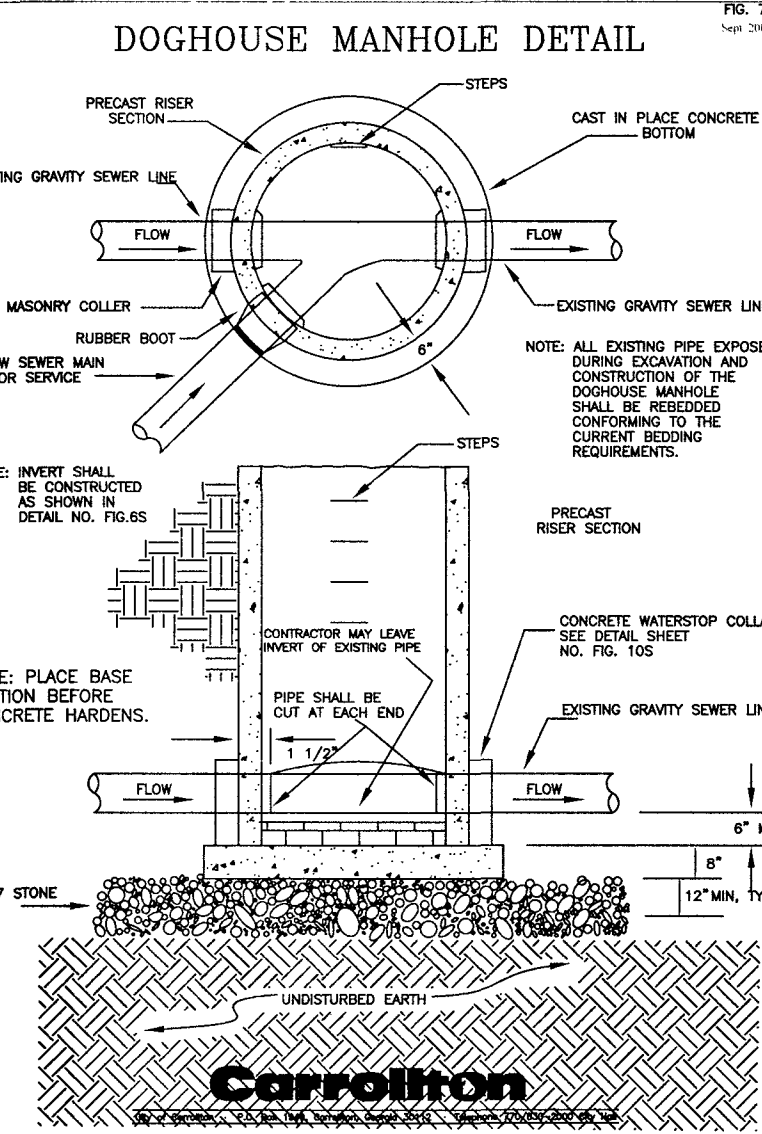
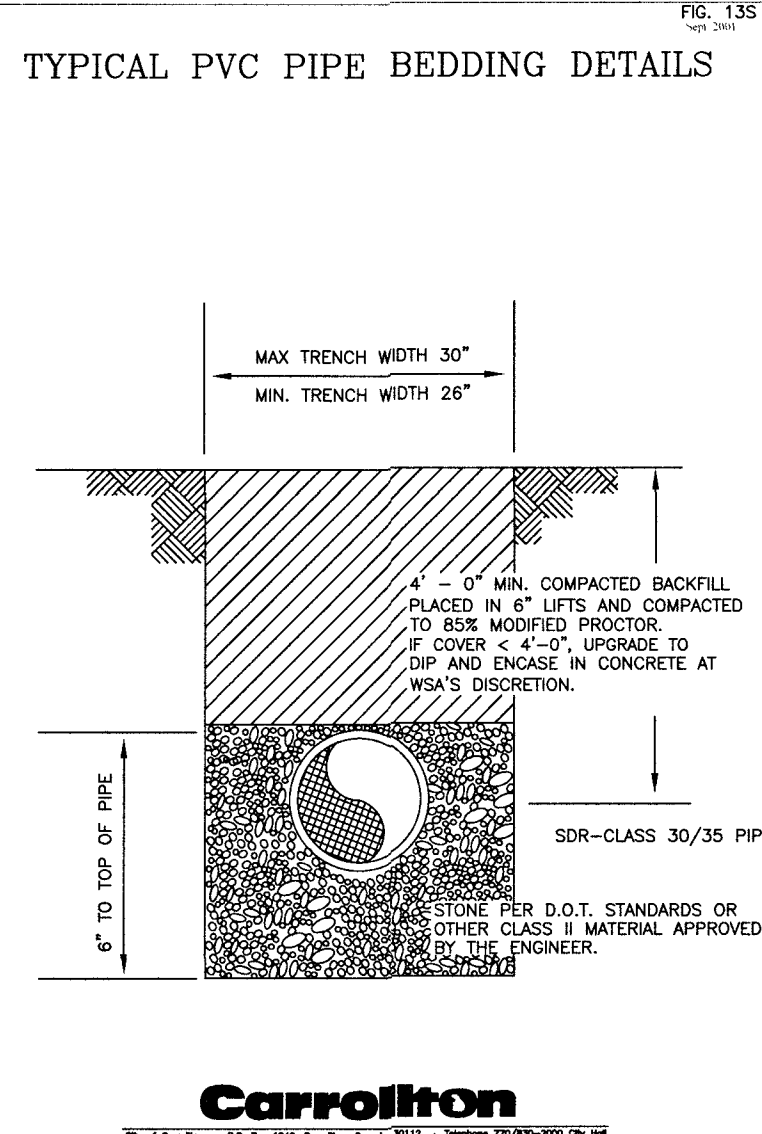
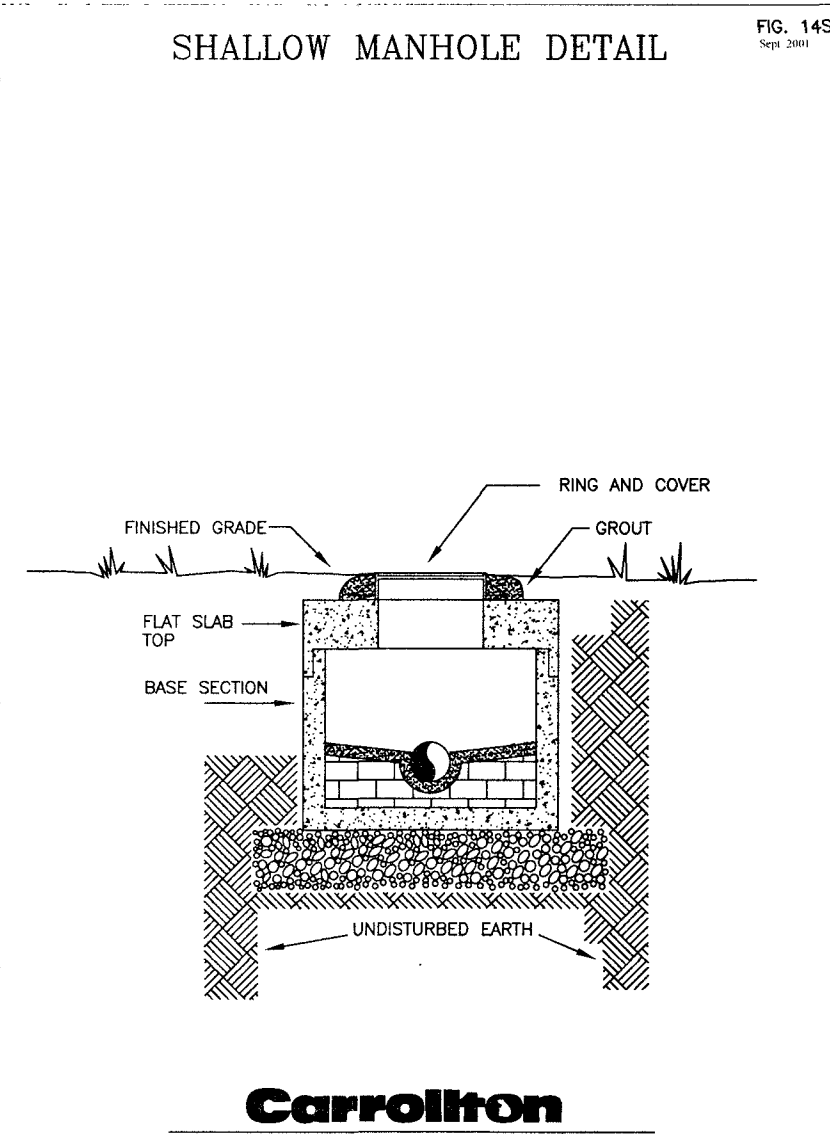
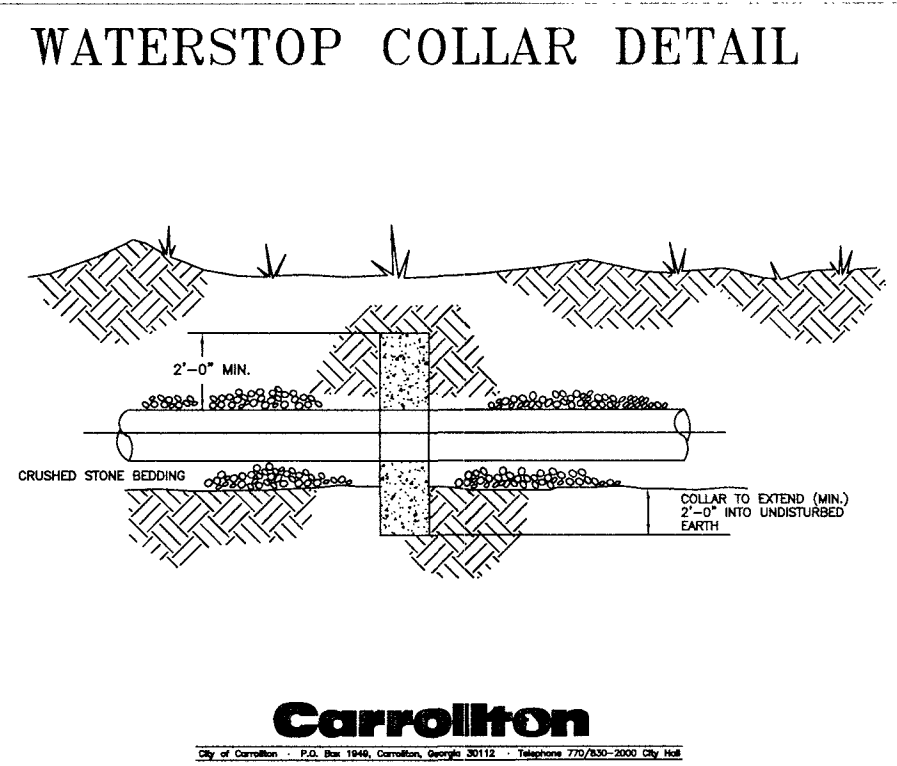
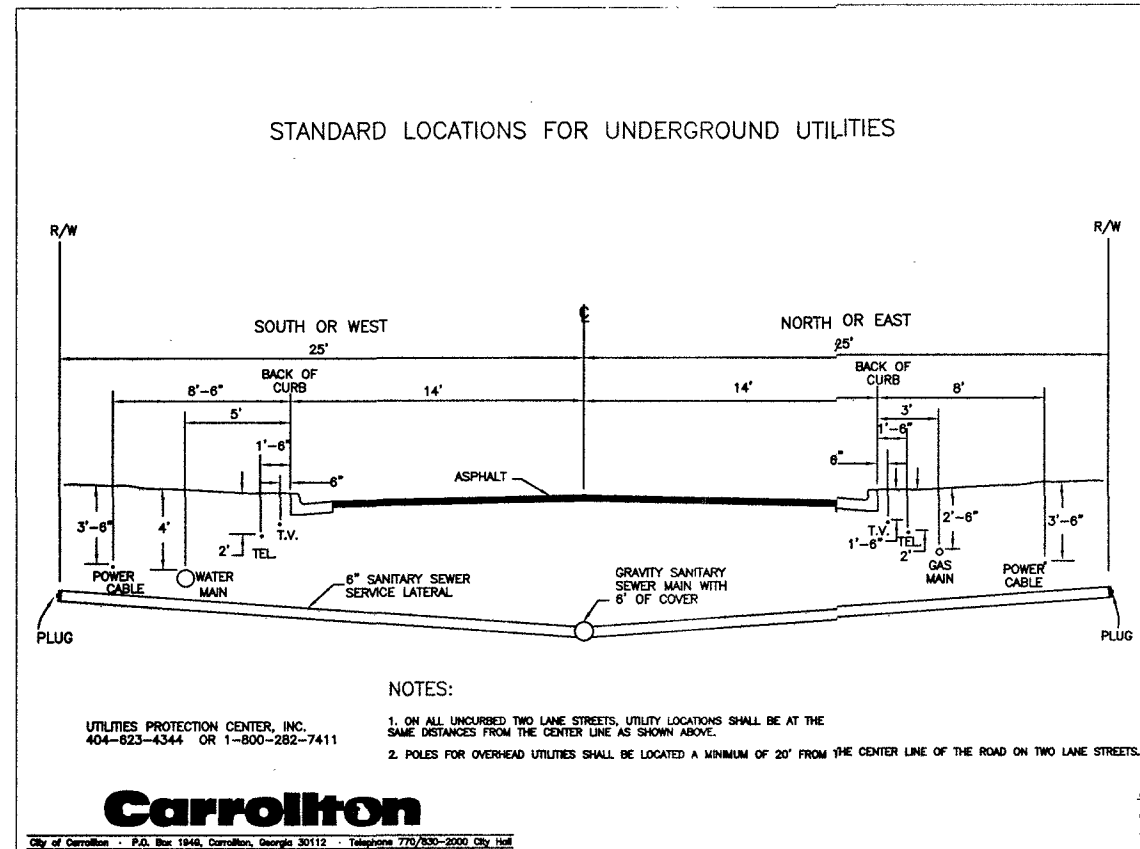


FIGURE 6-18.3
Sd1-NS EROSION AND SEDIMENT CONTROL



REINFORCED CONCRETE PIPE ASTM C76															
"D" (IN)	15	18	21	24	27	30	36	42	48	54	60	66	72	78	84
"T" (IN)	2 1/2	2 1/2	2 3/4	3	3 1/2	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
"Bc" (FT)	1.63	1.92	2.21	2.50	2.79	3.08	3.67	4.25	4.83	5.42	6.00	6.58	7.17	7.75	8.33
"Bd" (FT)	3.00	3.25	3.75	4.00	4.25	4.50	5.75	6.25	7.00	7.50	8.00	8.75	9.25	9.75	10.50

* Bc = D + 2T

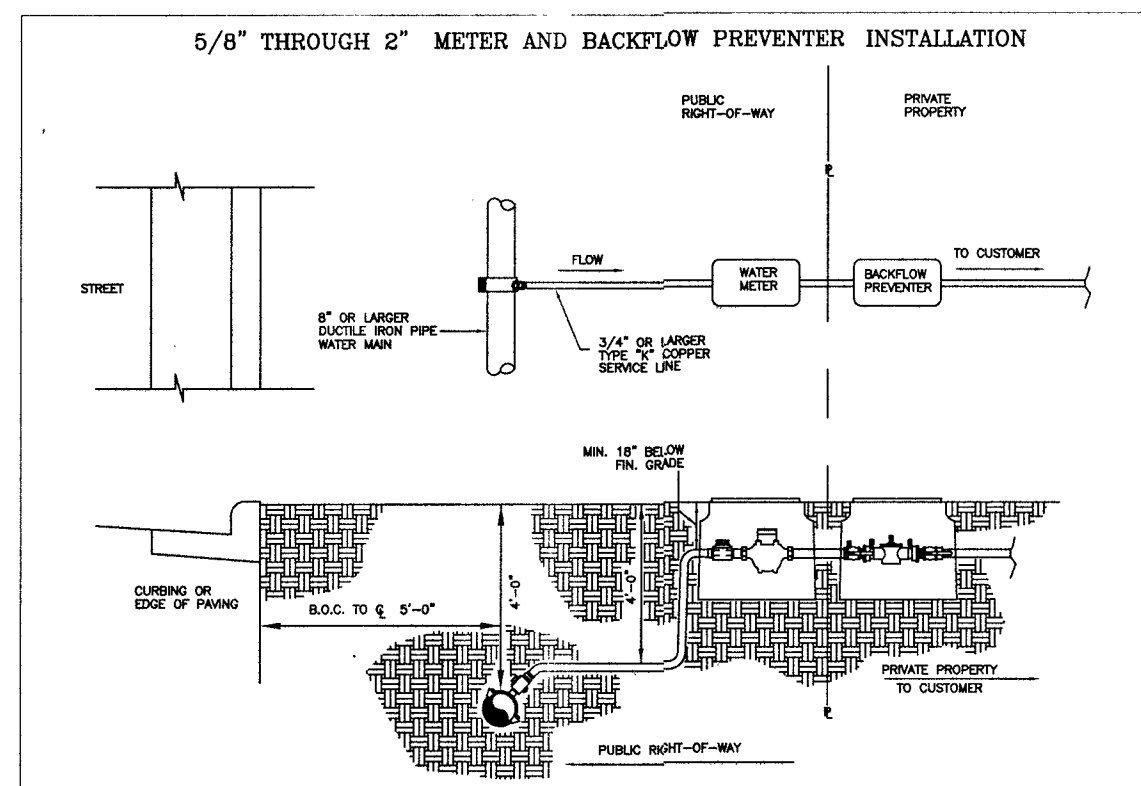
DUCTILE IRON PIPE AWWA C150										
"D" (IN)	6	8	10	12	18	24	30	36	42	54
"T" (IN)	0.25	0.27	0.29	0.31	0.35	0.38	0.39	0.43	0.47	0.51
"Bc" (FT)	0.54	0.71	0.88	1.05	1.56	2.06	2.57	3.07	3.58	4.01
"Bd" (FT)	2.00	2.25	2.25	2.50	3.00	3.50	4.00	5.25	5.75	6.25

MANHOLE STEP DETAIL

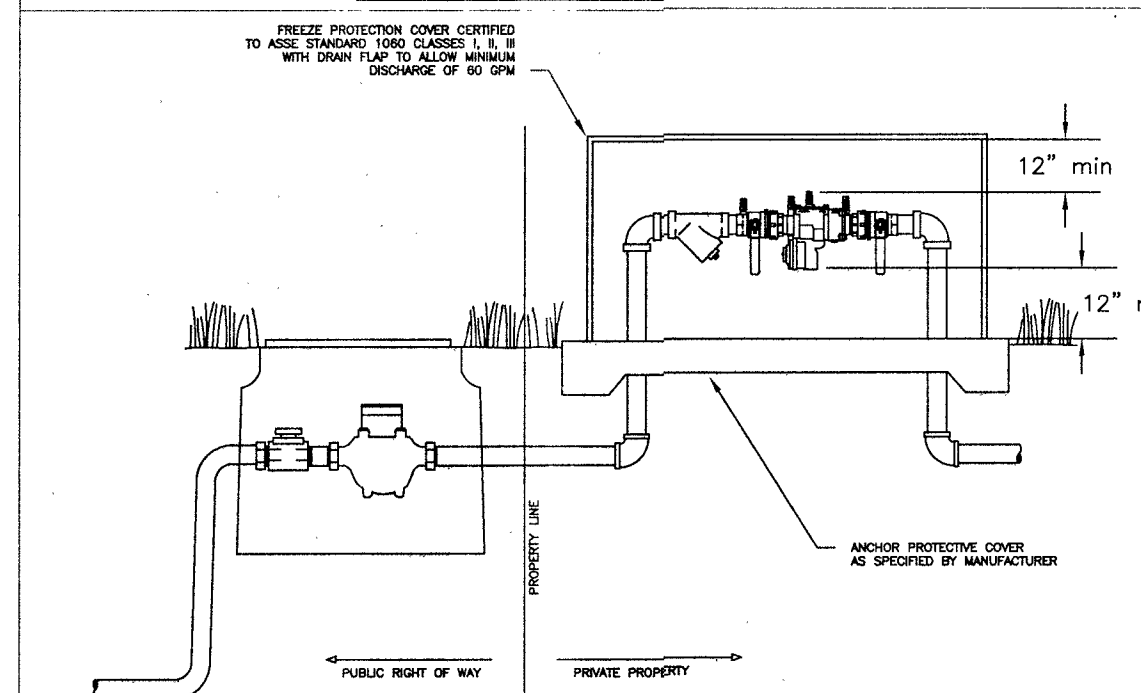
GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA. 30177
E-MAIL: mailbox@georgiawest.com
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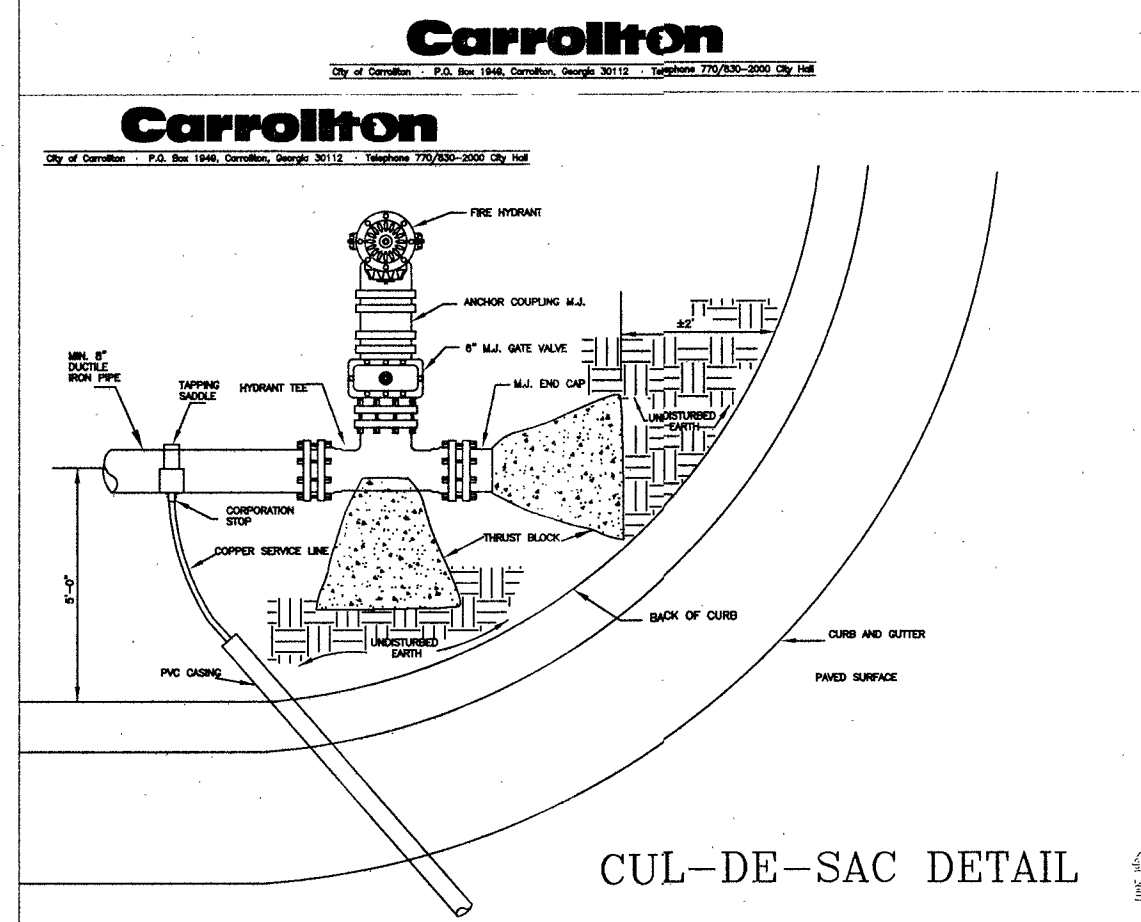
CITY OF CARROLLTON
SANITARY SEWER DETAILS
TITLE:
DESIGNED BY:
JOB NUMBER:
DATE: 02-08-2024
SCALE: N.T.S.



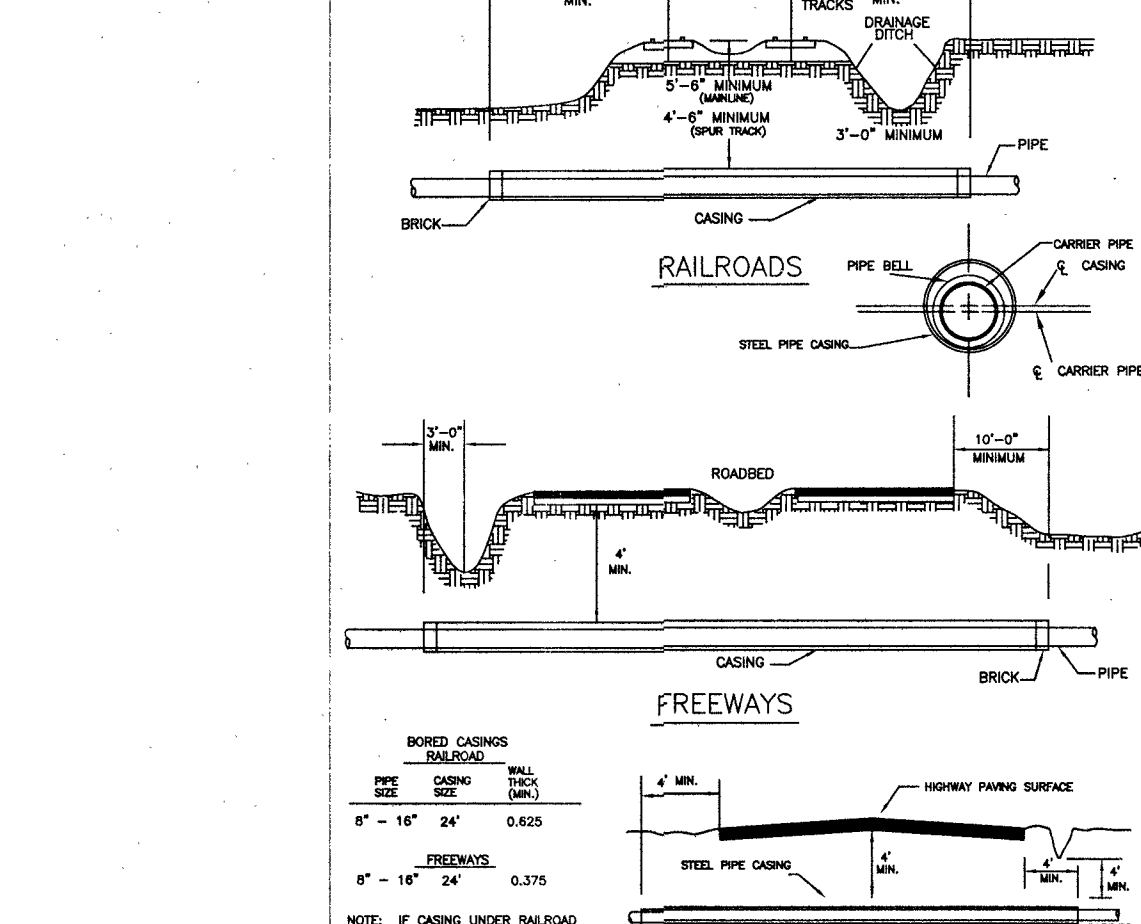
5/8" THROUGH 2" METER AND BACKFLOW PREVENTER INSTALLATION



REDUCED PRESSURE ASSEMBLY - OUTDOOR INSTALLATION

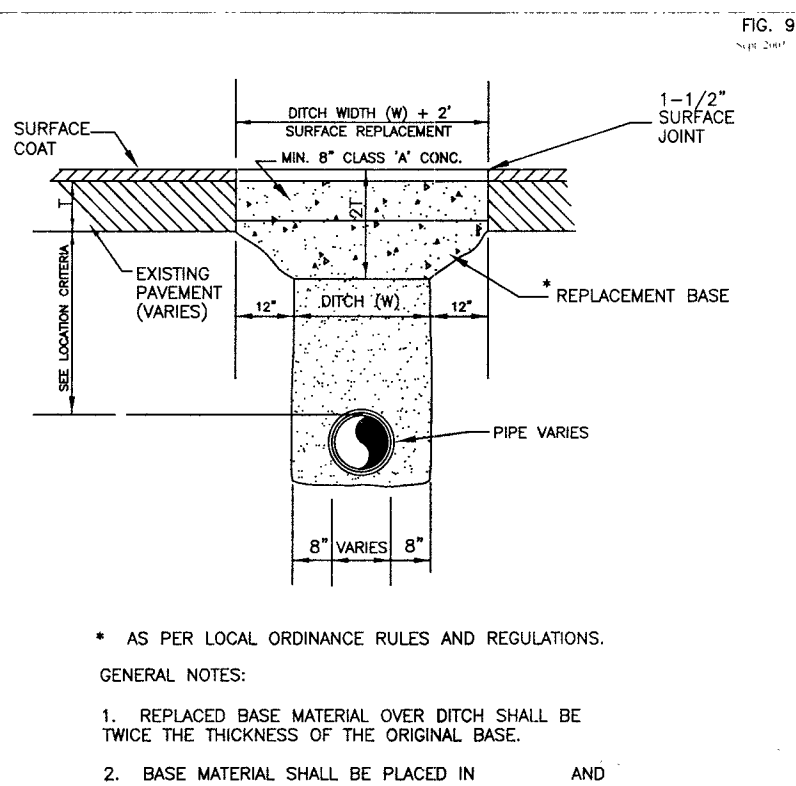


CUL-DE-SAC DETAIL

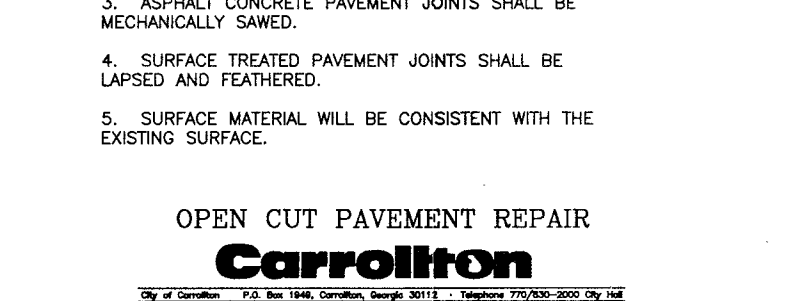


TYPICAL RAILROAD OR FREEWAY CROSSING

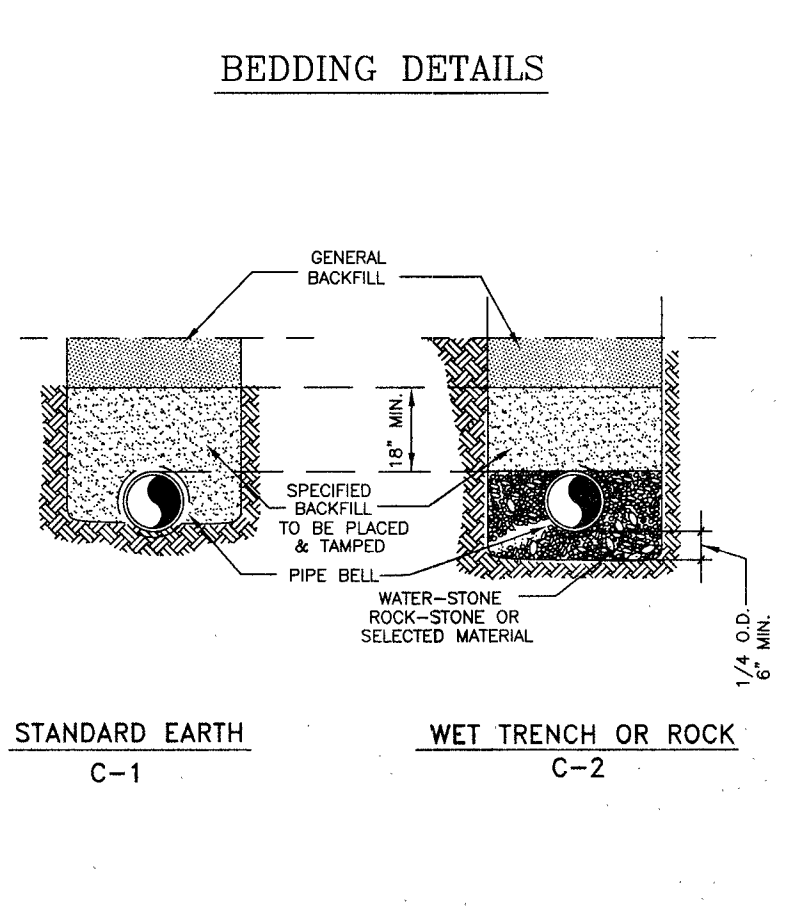
Carrollton



OPEN CUT PAVEMENT REPAIR

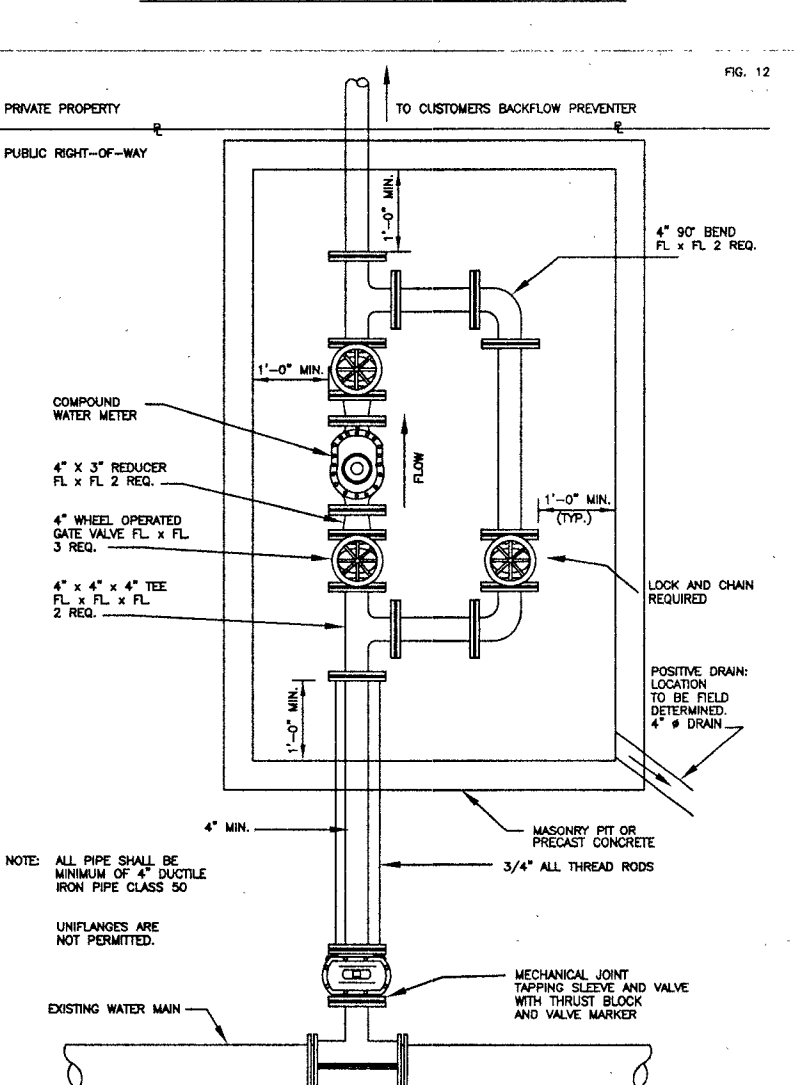


BEDDING DETAILS



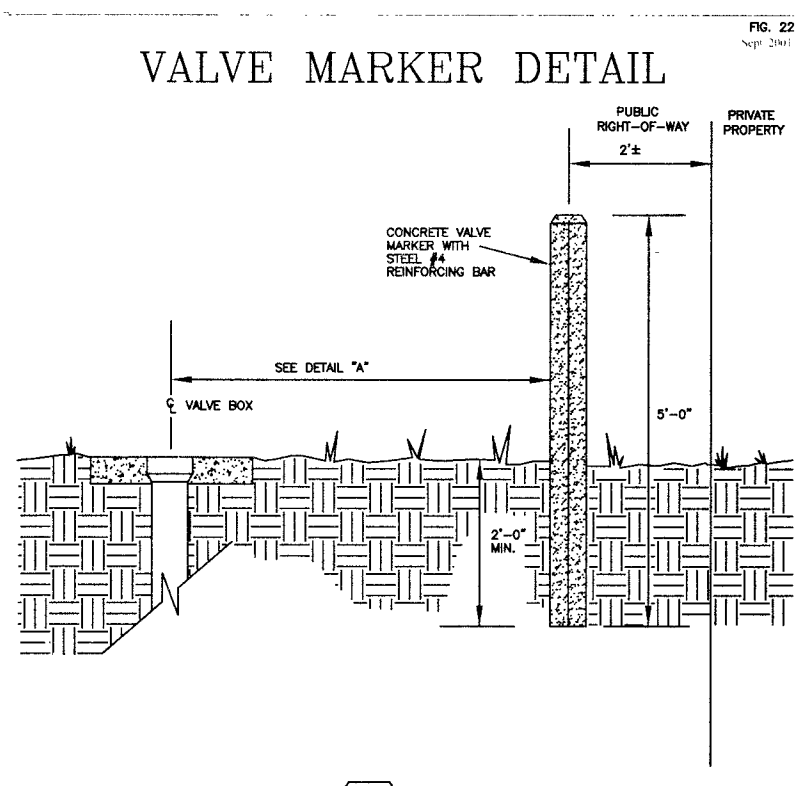
STANDARD EARTH C-1 WET TRENCH OR ROCK C-2

Carrollton

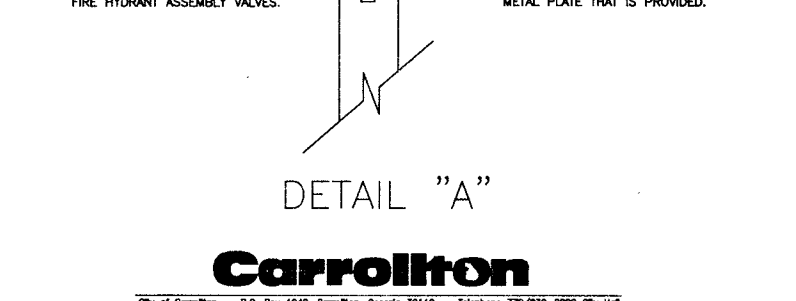


3" THRU 6" METER INSTALLATION (PLAN VIEW)

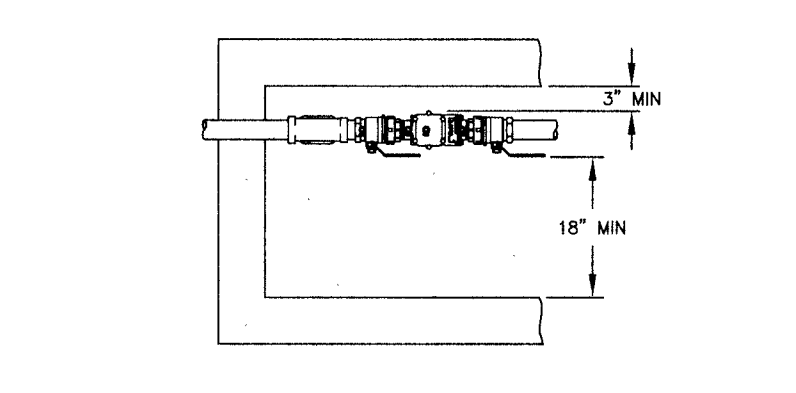
Carrollton



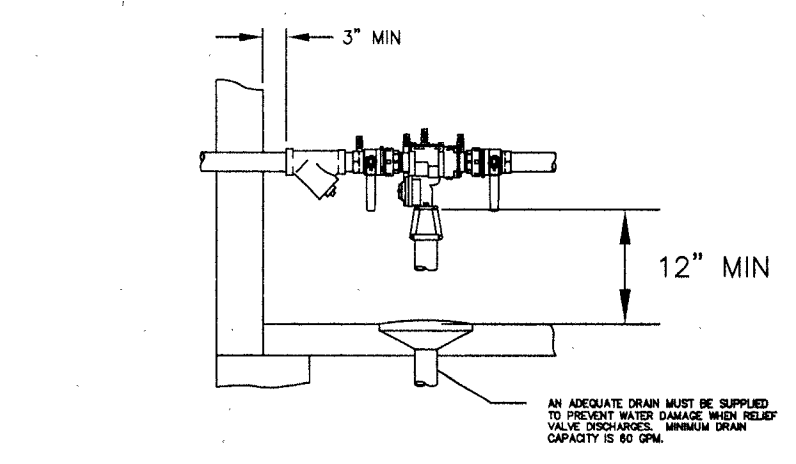
VALVE MARKER DETAIL



DETAIL "A"

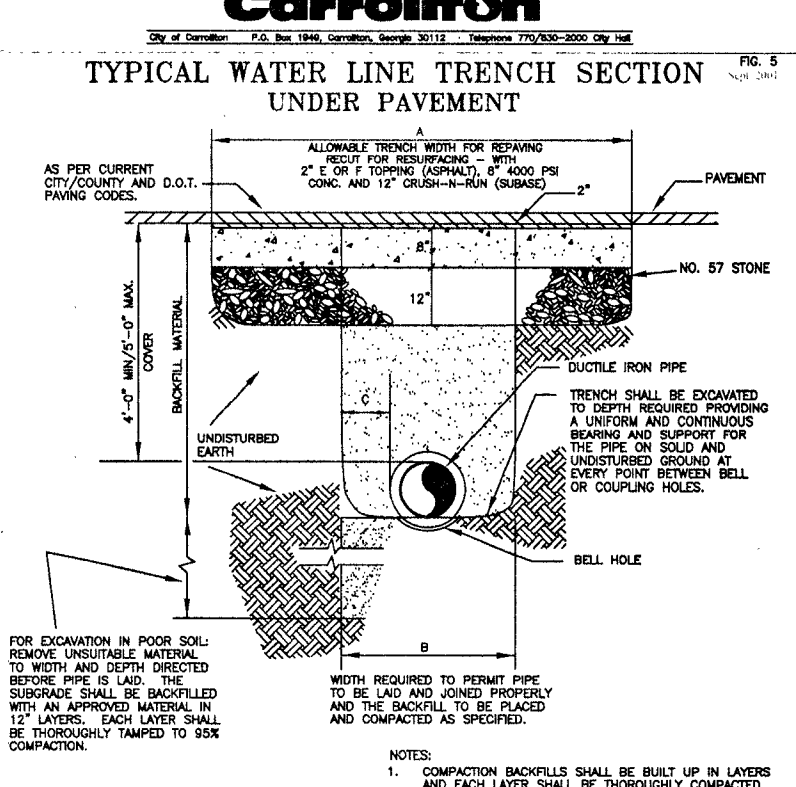


PLAN VIEW



PROFILE VIEW

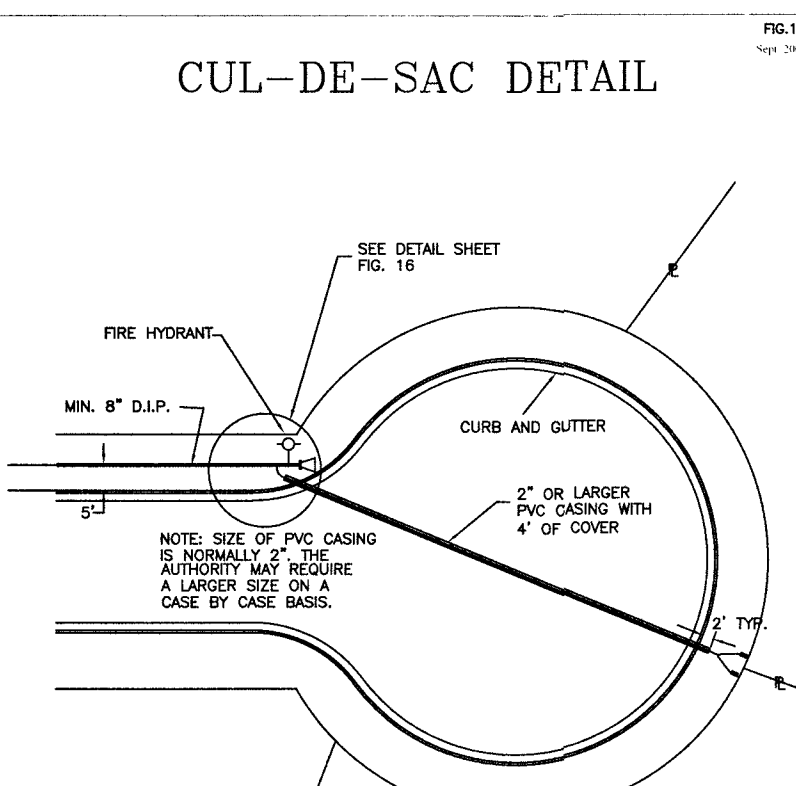
Carrollton



TYPICAL WATER LINE TRENCH SECTION UNDER PAVEMENT

PIPE SIZE (INCH)	MIN. A	MIN. B	MIN. C
4"	3.5/4.0	3.0/3.5	9.7/11
6"	3.5/4.0	3.0/3.5	9.7/11
8"	4.0/4.5	3.5/4.0	9.7/11
10"	4.0/4.5	3.5/4.0	9.7/11
12"	4.0/4.5	3.5/4.0	9.7/11
14"	4.0/4.5	3.5/4.0	9.7/11
16"	4.0/4.5	3.5/4.0	9.7/11
18"	4.0/4.5	3.5/4.0	9.7/11
20"	4.0/4.5	3.5/4.0	9.7/11
24"	4.0/4.5	3.5/4.0	9.7/11
30"	4.0/4.5	3.5/4.0	9.7/11
36"	4.0/4.5	3.5/4.0	9.7/11
42"	4.0/4.5	3.5/4.0	9.7/11

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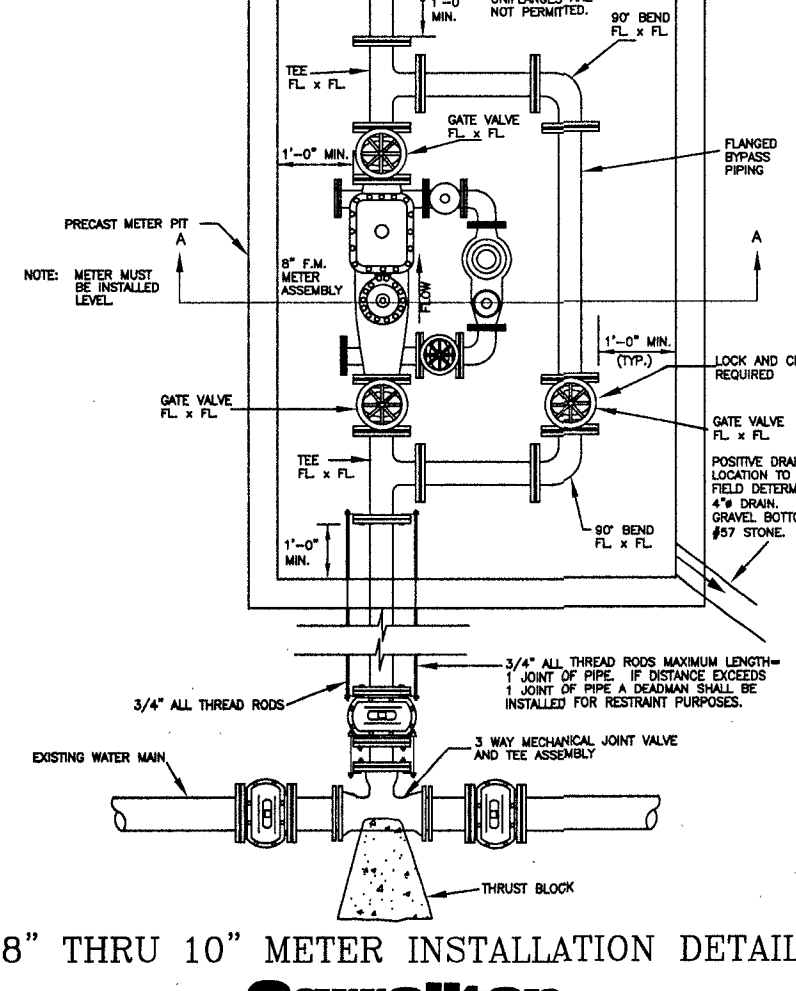


CUL-DE-SAC DETAIL



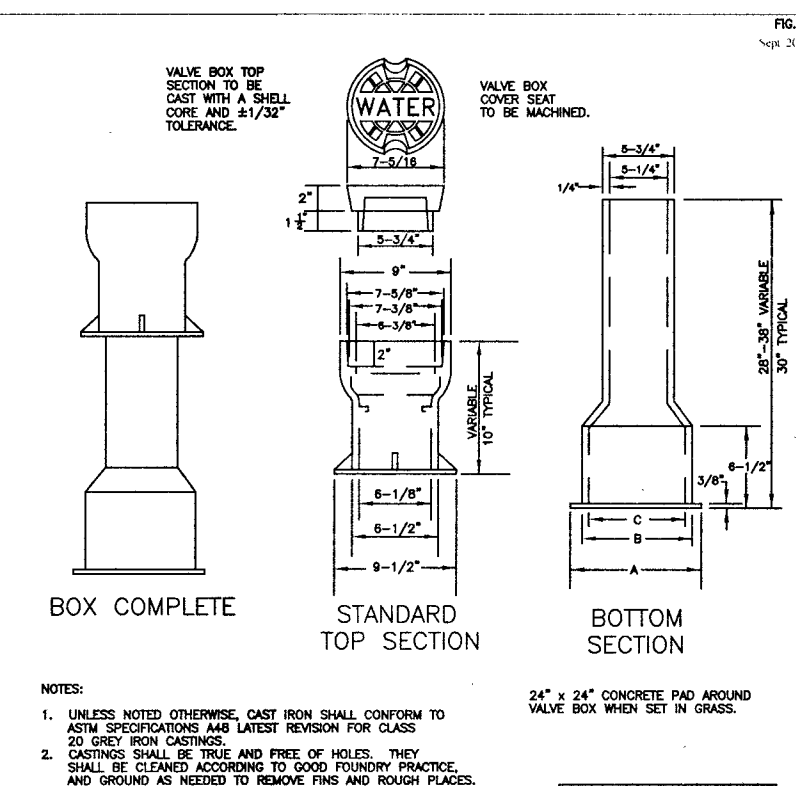
8" THRU 10" METER INSTALLATION DETAIL

Carrollton



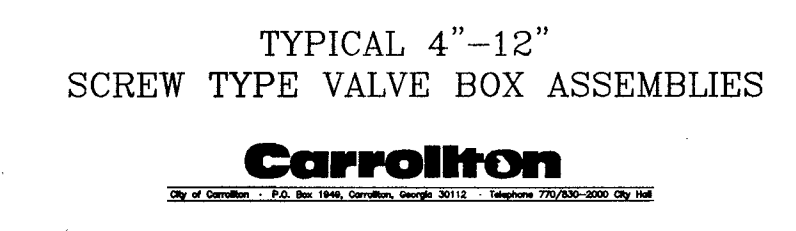
TYPICAL VALVE BOX INSTALLATION

Carrollton



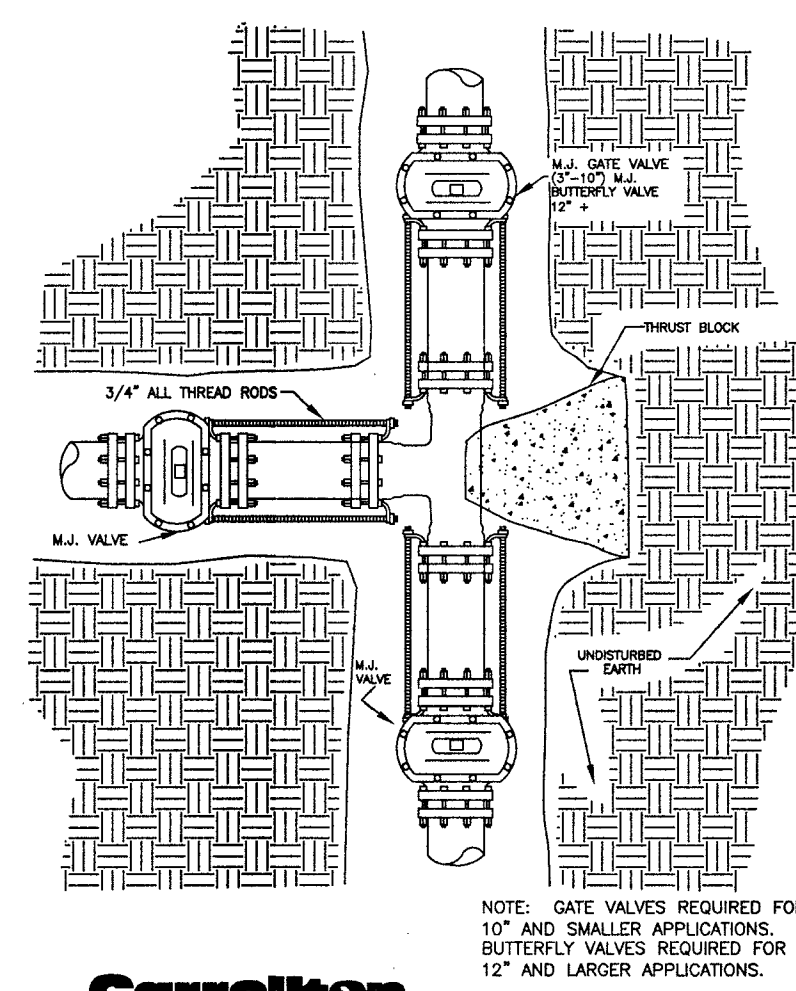
TYPICAL 4"-12" SCREW TYPE VALVE BOX ASSEMBLIES

Carrollton



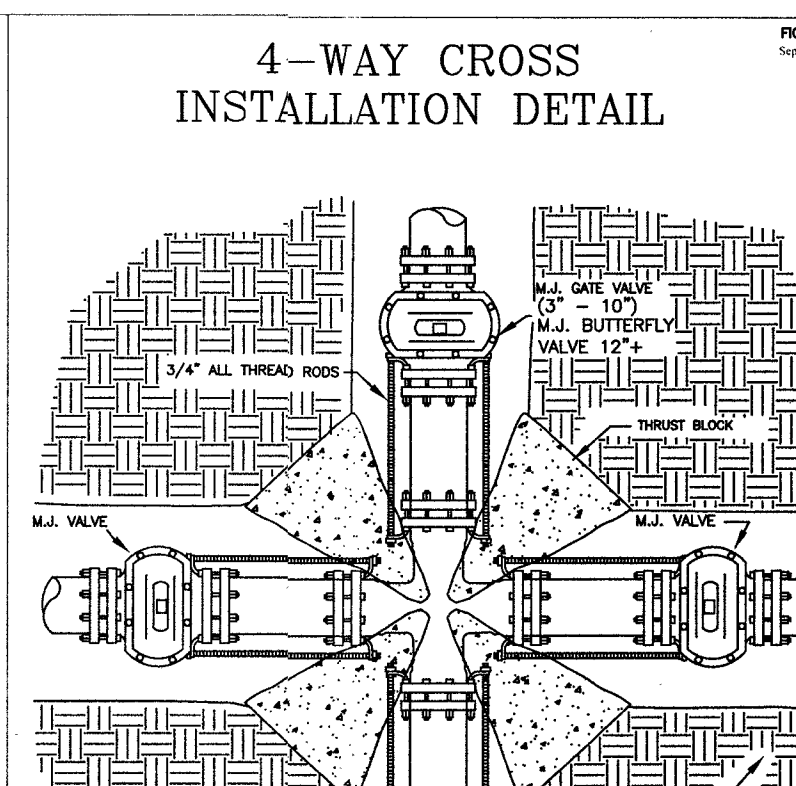
3-WAY VALVE AND TEE INSTALLATION DETAIL

Carrollton



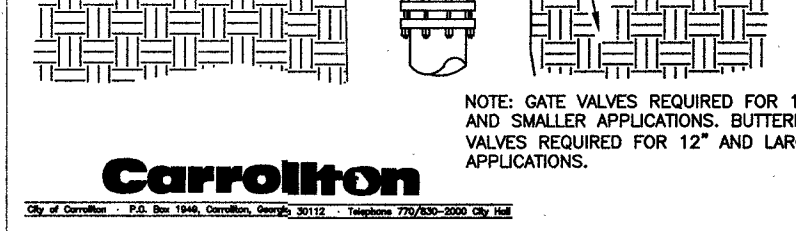
TYPICAL DETECTOR CHECK INSTALLATION

Carrollton



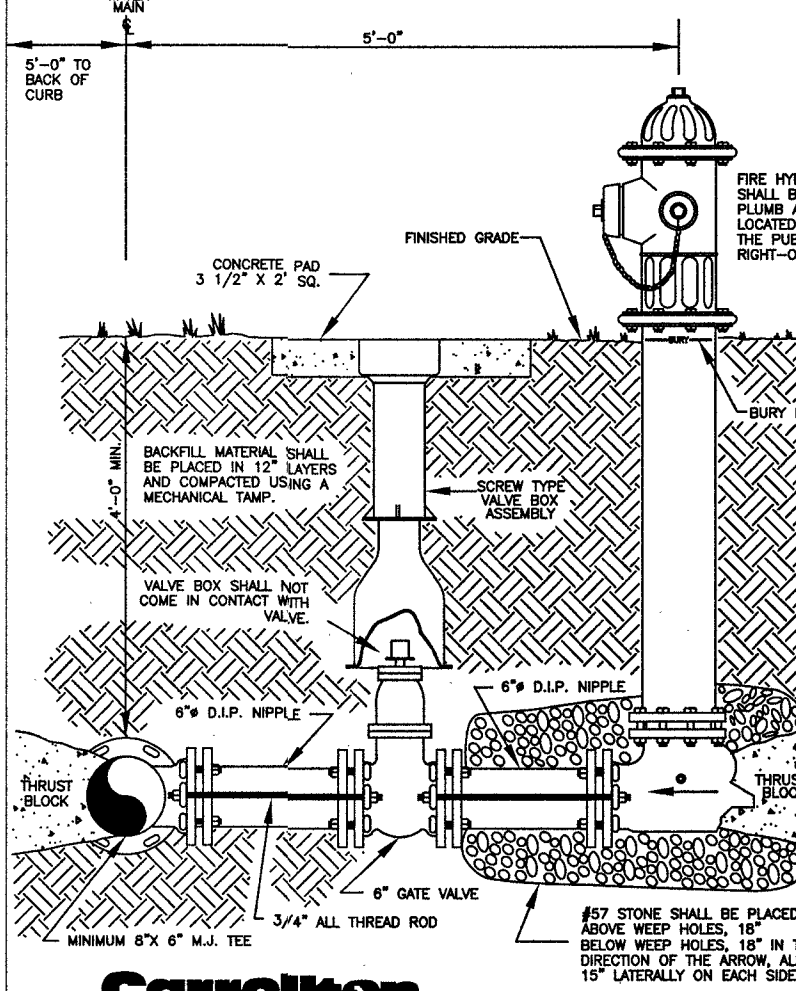
4-WAY CROSS INSTALLATION DETAIL

Carrollton



FIRE HYDRANT DETAIL

Carrollton

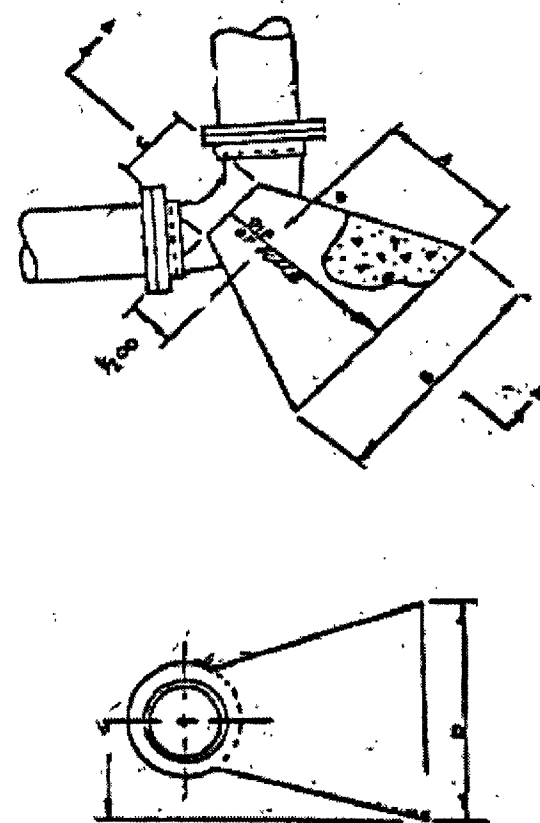


FIRE HYDRANT DETAIL UTILIZING HYDRANT TEE AND ANCHOR COUPLING

Carrollton

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TYPICAL HORIZONTAL THRUST BLOCK



NOTE
Soil conditions shall be verified before thrust block design is implemented.

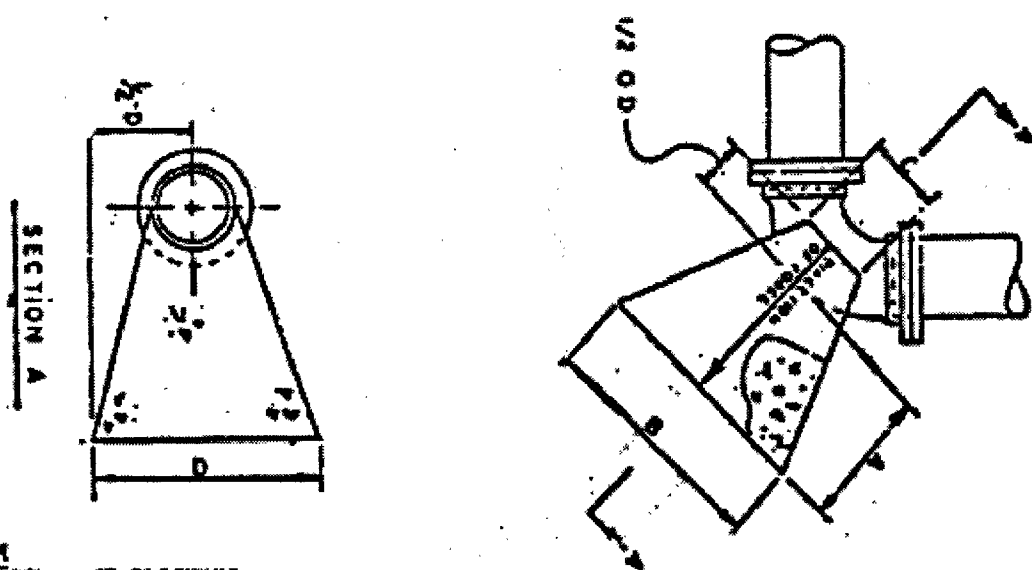
DESIGN DATA
Dimension of thrust block in feet based on 2000 pounds per square foot soil bearing pressure and 250 per square inch test pressure. Actual inside diameter of ductile iron pipe, Class 2 used as standard. Concrete shall be Class A, 3000 psi high early.

NOTE
Soil conditions shall be verified before thrust block design is implemented. Conc formed so that does not interfere with bolts/nuts or holes.

DESIGN DATA
Dimension of thrust block in feet based on 2000 pounds per square foot soil bearing pressure and 250 per square inch test pressure. Actual inside diameter of ductile iron pipe, Class 2 used as standard. Concrete shall be Class A, 3000psi high early.

MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING						
Block Size	A	B	C	D	Volume	Cubic Yard
6"	1.0'	1.0'	7"	1.0'	0.03'	
8"	1.0'	1.25'	7"	1.0'	0.04'	
12"	1.0'	2.0'	11"	2.0'	0.1'	
16"	2.0'	3.0'	15"	2.0'	0.3'	
20"	2.0'	3.0'	19"	3.0'	0.5'	
24"	3.0'	4.0'	22"	3.0'	0.8'	
6"	1.0'	1.5'	7"	1.0'	0.04'	
8"	1.0'	2.0'	7"	2.0'	0.1'	
12"	2.0'	3.0'	11"	2.0'	0.3'	
16"	2.0'	4.0'	15"	3.0'	0.6'	
20"	3.0'	5.0'	19"	3.0'	1.0'	
24"	4.0'	6.0'	22"	4.0'	2.3'	
6"	1.5'	2.0'	7"	1.5'	0.11'	
8"	2.0'	3.0'	7"	2.0'	0.3'	
12"	2.0'	4.0'	11"	3.0'	0.7'	
16"	3.0'	5.0'	15"	4.0'	1.4'	
20"	4.0'	6.0'	19"	5.0'	2.8'	
24"	5.0'	8.0'	22"	6.0'	5.5'	
6"	1.5'	2.5'	7"	2.0'	0.2'	
8"	2.0'	3.0'	7"	3.0'	0.4'	
12"	4.0'	6.0'	11"	4.0'	2.1'	
16"	4.0'	7.0'	15"	5.0'	3.1'	
20"	8.0'	8.0'	19"	7.0'	5.3'	
24"	6.0'	10.0'	22"	8.0'	10.5'	
Tees and Plugs	6"	1.5'	2.0'	7"	1.75'	0.13'
	8"	2.0'	3.0'	7"	2.0'	0.3'
	12"	2.0'	4.0'	11"	4.0'	0.8'
	16"	3.0'	5.0'	15"	5.0'	1.8'
	20"	4.0'	7.0'	19"	5.0'	3.9'
	24"	5.0'	8.0'	22"	7.0'	5.5'

TYPICAL DOWNWARD THRUST BLOCK



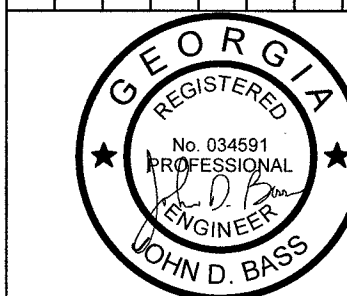
DESIGN DATA
Dimension of thrust block in feet based on 2000 pounds per square foot soil bearing pressure and 250 per square inch test pressure. Actual inside diameter of ductile iron pipe, Class 2 used as standard. Concrete shall be Class A, 3000psi high early.

NOTE
Soil conditions shall be verified before thrust block design is implemented. Conc formed so that does not interfere with bolts/nuts or holes.

NOTE
Soil conditions shall be verified before thrust block design is implemented.

DESIGN DATA
Dimension of thrust block in feet based on 2000 pounds per square foot soil bearing pressure and 250 per square inch test pressure. Actual inside diameter of ductile iron pipe, Class 2 used as standard. Concrete shall be Class A, 3000 psi high early.

MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING						
Block Size	A	B	C	D	Volume	Cubic Yard
6"	1.0'	1.0'	7"	1.0'	0.03'	
8"	1.0'	1.25'	7"	1.0'	0.04'	
12"	1.0'	2.0'	11"	2.0'	0.1'	
16"	2.0'	3.0'	15"	2.0'	0.3'	
20"	2.0'	3.0'	19"	3.0'	0.5'	
24"	3.0'	4.0'	22"	3.0'	0.8'	
6"	1.0'	1.5'	7"	1.0'	0.04'	
8"	1.0'	2.0'	7"	2.0'	0.1'	
12"	2.0'	3.0'	11"	2.0'	0.3'	
16"	2.0'	4.0'	15"	3.0'	0.6'	
20"	3.0'	5.0'	19"	3.0'	1.0'	
24"	4.0'	6.0'	22"	4.0'	2.3'	
6"	1.5'	2.0'	7"	1.5'	0.11'	
8"	2.0'	3.0'	7"	2.0'	0.3'	
12"	2.0'	4.0'	11"	3.0'	0.7'	
16"	3.0'	5.0'	15"	4.0'	1.4'	
20"	4.0'	6.0'	19"	5.0'	2.8'	
24"	5.0'	8.0'	22"	6.0'	5.5'	
6"	1.5'	2.5'	7"	2.0'	0.2'	
8"	2.0'	3.0'	7"	3.0'	0.4'	
12"	4.0'	6.0'	11"	4.0'	2.1'	
16"	4.0'	7.0'	15"	5.0'	3.1'	
20"	8.0'	8.0'	19"	7.0'	5.3'	
24"	6.0'	10.0'	22"	8.0'	10.5'	
Tees and Plugs	6"	1.5'	2.0'	7"	1.75'	0.13'
	8"	2.0'	3.0'	7"	2.0'	0.3'
	12"	2.0'	4.0'	11"	4.0'	0.8'
	16"	3.0'	5.0'	15"	5.0'	1.8'
	20"	4.0'	7.0'	19"	5.0'	3.9'
	24"	5.0'	8.0'	22"	7.0'	5.5'



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NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

CITY OF CARROLLTON
WATER DETAILS

CD-5.1