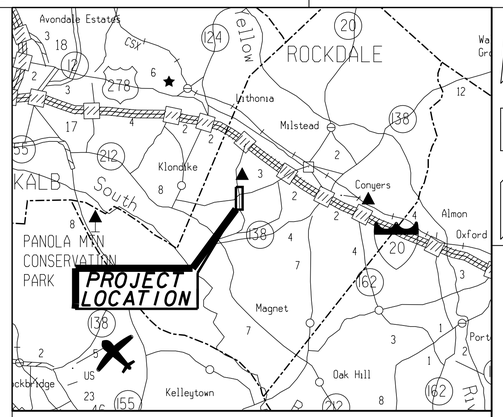
DATE$$S	PRF	DGN	STATE	PROJECT NUMBER	P. I. No.
$USER$	$$PENTABLE$$	GRWCOV	GA	CSSTP-0006-00(932)	0006932



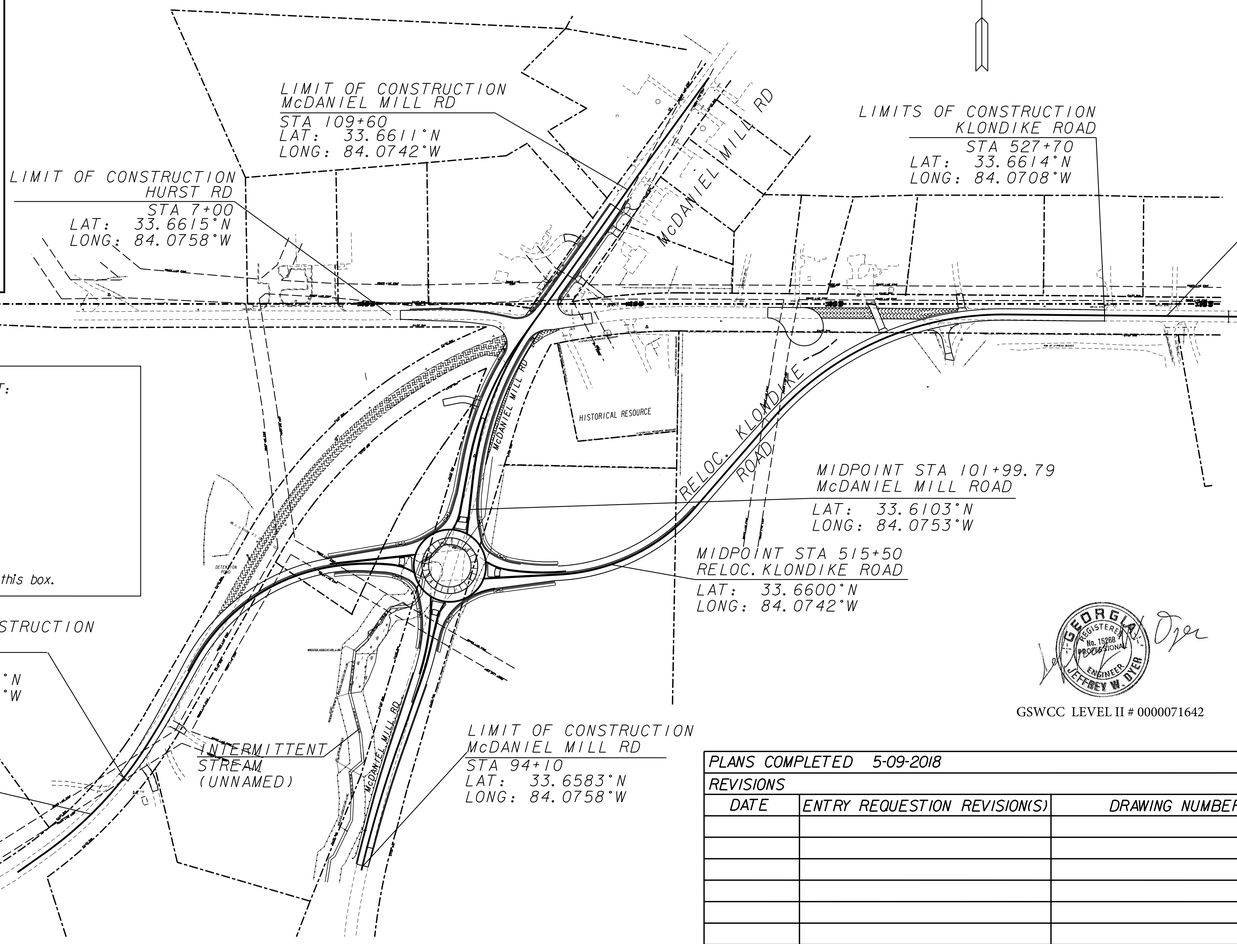
VICINITY MAP - N.T.S.

DEPARTMENT OF TRANSPORTATION
ROCKDALE COUNTY

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
KLONDIKE ROAD (CR 57)/ MCDANIEL MILL ROAD (CR 62)/ HURST ROAD INTERSECTION IMPROVEMENTS

CSSTP-0006-00 (932)
P.I. NO. 0006932

FEDERAL ROUTE * N/A
STATE ROUTE * N/A



PRIMARY PERMITEE:

Rockdale County
Name

(770) 278-7200
Phone Number

2570 Old Covington Hwy, Conyers, GA 300012
Address

Brian.Allen@RockdaleCountyGA.gov
Email

24 HOUR CONTACT:

NAME

ADDRESS

EMAIL

PHONE NUMBER

Contractor shall update the information in this box.

THIS PROJECT IS 100% IN ROCKDALE COUNTY AND IS 100% IN CONG.DIST.NO.4.

PROJECT DESIGNATION: EXEMPT

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH TITLE II PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the NPDES Permit No. GAR100002."

"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 State 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 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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.

PLANS PREPARED BY Qk4, Inc.

RECOMMENDED FOR APPROVAL BY:

1/29/18
DATE

Jeffrey W. Dyer
JEFFREY W. DYER, PE
GSWCC LEVEL II 0000071642

GEORGIA REGISTERED No. 15208 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

PLANS COMPLETED 5-09-2018

REVISIONS

DATE	ENTRY REQUESTION REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GWSCC LEVEL II CERT.#

GRWCOV
3/1/2007

ESPCP GENERAL NOTES

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 and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMP's may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or special provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

This is a multi-stage project that will require multiple phases. The initial phase of this project includes the installation of perimeter silt fences for the fill sections of Relocated Klondike Road that will be constructed in Stage 1. The intermediate phase of Stage 1 will include the construction of the new alignment portions of Klondike Road except for the center of the roundabout intersection. Inlet sediment traps will be installed on the proposed drop inlets and catch basins. Ditch checks will be installed in ditches that are constructed as part of Stage 1. Traffic will remain open on existing McDaniel Mill and Klondike. The final phase of stage 1 and the initial phase of Stage 2 will coincide. Traffic will be detoured away from the proposed roundabout. A culvert will be installed under McDaniel Mill Road to convey stormwater to the intermittent stream on the west side of McDaniel Mill. Ditch checks will be installed in the ditches that are constructed as part of Stage 2. Inlet sediment traps will be installed on all drop inlets and catch basins. After Stage 2 has been implemented, with through traffic detoured from McDaniel Mill Road, the vertical crest north of the intersection with Hurst Road will be lowered to improve sight distance. This work will be done in Stage 2 and Stage 3, and access to existing driveways will be maintained. The final stage of the project will include permanent grassing.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION

A project-specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

The following is a summary of the soils that are expected to be found on the project site:

Newton and Rockdale Counties, Georgia (GA649)	
Soil Symbol	**Soil Name**
AcB	Alcovy loamy sand, 2 to 6 percent slopes
AwC	Ashlar-Pacolet-Wedowee complex, 4 to 15 percent slopes
GeC	Gwinnett sandy loam, 6 to 10 percent slopes
GwC2	Gwinnett sandy clay loam, 6 to 10 percent slopes, eroded
HeB	Hiwassee sandy loam, 2 to 6 percent slopes
PaC	Pacolet sandy loam, 6 to 10 percent slopes
WeB	Wedowee sandy loam, 2 to 6 percent slopes
WuC	Wedowee-Urban land-Ashlar complex, 6 to 15 percent slopes

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm.

POSTCONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

All permanent postconstruction BMP's are shown in the construction plans and in the ESPCP plan. The postconstruction BMP's for this project consist of vegetation, riprap at pipe outlets for velocity dissipation and outlet stabilization, vegetated ditches where practical, channel/ditch stabilization with turf reinforcing mats, riprap and concrete ditch lining where necessary. The postconstruction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.)

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABLIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

INSPECTIONS

The primary permittee (GDOT) must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project within seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

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(404) 329-5900

GEORGIA REGISTERED No. 15288 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

REVISION DATES

ESPCP GENERAL NOTES

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015
Rev.01/18/2017 GPLN

SEDIMENT STORAGE

The site has a total disturbed area of 9.3 acres. *The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.*

Four of the seven outfalls, plus the sheet flow area provide sediment storage in excess of the required sediment storage volume. The remaining three outfalls (D,E,G) do not provide as much storage volume as required based on their total drainage area. This is caused by the location of this project within the watershed of Honey Creek. Each of these three outfalls drain areas above the actual project limits that are in far excess of the actual disturbed areas. The predominant land use of these areas are wooded/undeveloped and low density residential. There is not enough available right-of-way to provide sediment storage for the entire drainage area above the project. In order to mitigate this situation, numerous check dams, rock dams, and inlet sediment traps are included in the BMP plan to store sediment that passes through the project area. The available sediment storage is still greater than would be needed to accommodate sedimate storage for the disturbed areas alone. In addition, exposed areas will have temporary mulching applied as soon as practical and leave exposed for a period of time no longer than 14 days as per the EPD General Permit.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Bypassed Area (acres)	Required Sediment Storage Volume (yd³)	Total Storage Volume Provided (yd³)	Check Dam @ 3% (12.5 yd³/each)		Check Dam @ 6% (4.5 yd³/each)		Rock Dam (4.5 yd³/each)		Inlet Sediment Traps (2ft sump) (4 yd³/each)		Inlet Sediment Traps (2.5ft sump) (8 yd³/each)		Silt Fence (0.3 yd³/ft)	
						# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	Length of Fence (ft)	Total Volume (yd³)
Outfall A	0.03	0.03	0	2.01	66.3		0		0		0		0		0	221	66.3
Outfall B	0.36	0.27	0	24.12	26	1	12.5	3	13.5		0		0		0		0
Outfall C	0.43	0.43	0	28.81	45.5	2	25	1	4.5		0	2	8	1	8		0
Outfall D	20.70	4.70	0	1386.9	527	9	112.5	64	288	3	13,5	11	44	6	48	70	21
Outfall E	18.60	2.00	0	1246.2	391.5	20	250	10	45	2	9	3	12	1	8	225	67.5
Outfall F	0.18	0.18	0	12.06	16		0		0		0	2	8	1	8		0
Outfall G	5.19	0.53	0	347.73	112.5	9	112.5		0		0		0		0	0	0
Outfall H	0.56	0.28	0	37.52	73.5	3	37.5		0		0		0		0	120	36
Total Sheet Flow	0.88	0.88	0	58.96	552		0		0		0		0		0	1840	552

To prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

TEMPORARY SEDIMENT BASIN DETAILS:

Due to size and location of this project, sediment basins are not proposed for this project.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative or additional BMPs will be used on this project.

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the traveled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A. 12-7-1, are impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point 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.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

Name or Number of Stream or Other Water Body Type	Location of Buffered Streams and State Waters**			Stream Type (Warm/Cold Water)*	Buffer Variance Required? (Yes/No)
	Roadway Alignment	Begin Station and Offset	End Station and Offset		
Stream 1	McDaniel Mill Rd	STA 98+95, 95'LT	STA 100+86, 115'LT	Warm	No
The contractor is allowed to install the new culverts and construct slopes.					
Stream 1	McDaniel Mill Rd	STA 94+40, 30'LT	STA 96+65, 50'LT	Warm	Yes
The contractor is allowed to construct slopes and install silt fence.					

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

** Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.*
***Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the Individual BMP sheets*

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GEORGIA REGISTERED No. 15288 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

REVISION DATES

ESPCP GENERAL NOTES

CHECKED:		DATE:		DRAWING No.
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CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015
Rev.01/18/2017 GPLN

SAMPLING GENERAL NOTES

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

Note: The Total site area is 13.3 acres.											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi^2)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
Ditch	94+10, 17' RT	Honey Creek	All	Outfall	13.0	0.53	Warm	50	25	New Location-Fill	Road Widening	0-1	0.042	5	Str # I-4
Ditch	528+00, 22' LT	Honey Creek	All	Outfall	13.0	0.25	Warm	50	25	New Location-Cut	Road Widening	0-1	0.019	5	N/A
Spillway	7+00, 16' LT	Honey Creek	All	Outfall	13.0	0.07	Warm	50	25	Widening	Road Widening	0-1	0.0287	5	ditch
Str # C-6	99+22, 85' LT	Honey Creek	All	Outfall	13.0	6.18	Warm	50	25	New Location-Fill	Road Widening	>2	0.038	5	N/A

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Pipe Diameter Do (ft)	Q_{25} (ft^3/s)	V_{25} (ft/s)	Tailwater Condition (TW<0.5 Do TW>0.5 Do)	Width at Drainage Structure W1=3Do (ft)	Apron Length La (ft)	Downstream Width W2=Do+La (ft)	Average Stone Diameter do (ft)	Apron Thickness D (ft)	Riprap Type (Type 3 or Type 1)	Quantity (yd^2)
A-9	2.5	38.8	15.2	TW<0.5 Do	7.50	16	18.50	0.67	1.50	Type 3	29
G-3	1.5	1.5	4.2	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	9
B-2	2.5X2	28.4	5.8	TW>0.5 Do	7.50	12	17.00	0.67	1.50	Type 3	75
F-4	1.5	0.6	4.2	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	10
F-2	1.5	0.7	6.5	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	8
K-2	1.5	0.8	8.3	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	9
J-2	1.5	0.6	4.3	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	10
I-4	1.5	2.0	10.5	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	10
D-5	3.0	51.5	18.6	TW<0.5 Do	9.00	16	19.00	0.67	1.50	Type 3	29
C-6	3.5	69.1	19.7	TW<0.5 Do	10.50	16	19.50	0.67	1.50	Type 3	31
H-4	3.0	1.2	4.3	TW<0.5 Do	9.00	10	13.00	0.67	1.50	Type 3	11
L-2	1.5	0.3	4.7	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	9
E-5	1.5	3.1	6.3	TW<0.5 Do	4.50	10	11.50	0.67	1.50	Type 3	20

CHANNEL PROTECTION

All channels may be stabilized exclusively with permanent grassing except as noted otherwise in the table below.

Begin Station and Offset	End Station and Offset	Q_{25} (ft^3/s)	V_{25} (ft/s)	Type of Channel Lining	Channel Bottom Width (ft)	Depth of Protection Dp (ft)	Quantity (yd^2)
102+70 RT	103+75 RT	40.6	9.83	Type-3 Riprap	4.0	1.50	100
103+75 RT	104+75 LT	40.2	9.77	Type-3 Riprap	2.0	1.50	86
104+75 RT	106+00 RT	36.7	8.92	Type-3 Riprap	2.0	1.50	75
512+80 LT	101+80 RT	47.9	8.56	Type-3 Riprap	4.0	1.50	50

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GSWCC LEVEL II # 0000071642

REVISION DATES

ESPCP GENERAL NOTES

		DATE:		DRAWING No.
CHECKED:		DATE:		
BACKCHECKED:		DATE:		51-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SW SWCD: Rockdale County SWCD

Project Name: Klondike Rd @ McDaniel Mill Rd **Address:** 2570 Old Covington Hwy. Conyers, GA 30012

City/County: Rockdale **Date on Plans:** 1/29/2019

Name &email of person filling out checklist: Jeffrey W. Dyer jdyer@qk4.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
51-0004	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ALL	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	3	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-0001	Y	4	Provide the name, address, email address, and phone number of primary permittee.
51-0001	Y	5	Note total and disturbed acreage of the project or phase under construction.
50-0001	Y	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0001	Y	8	Description of the nature of construction activity.
50-0001	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-0003	Y	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Y	11	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
50-0001	Y	12	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
51-0001	Y	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *
51-0001	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5 page 26 of the permit. *
51-0002	Y	15	Clearly note the statement that "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."
51-0002	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0001	Y	17	Clearly note the statement that "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."*
51-0001	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
51-0001	Y	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 land disturbing activities."
51-0001	Y	20	Clearly note statement that "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."
51-0001	Y	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."
N/A	N	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 an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
N/A	N/A	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."
51-0002	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."
51-0001	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
51-0001	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."
51-0001	Y	27	Description of practices to provide cover for building materials and building products on site. *
54-0001 to 54-0060	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges."
51-0001	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0001	Y	30	Provide complete requirements of inspections and record keeping by the primary permittee."
51-0003	Y	31	Provide complete requirements of sampling frequency and reporting of sampling results."
51-0001	Y	32	Provide complete details for retention of records as per Part IV.F. of the permit."
51-0003	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location."
51-0003	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable."
51-0003	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is YYYY discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable."
54-0001 to 54-0060	Y	36	A 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 initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase."
54-0001 to 54-0060	Y	37	Graphic scale and North arrow.
53-0001	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: USGS 1": 2000' Topographical Sheets; Proposed Contours: 1" : 400' Centerline Profile
N/A	N	39	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A	N	40	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."
54-0001 to 54-0060	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
54-0001 to 54-0060	Y	42	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-0001	Y	43	Delineation and acreage of contributing drainage basins on the project site.
55-0001	Y	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
53-0001	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0003	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0001	Y	47	Soil series for the project site and their delineation.
54-0001 to 54-0060	Y	48	The limits of disturbance for each phase of construction.
51-0001	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment 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 provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins 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 feasable, a written justifcation explaining this decision must be included in the plan.
54-0001 to 54-0060	Y	50	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 6, with legend.
52-0001 to 52-0007	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0001	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2019

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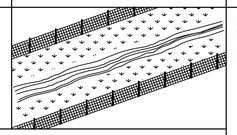
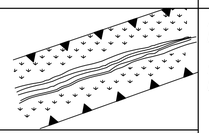
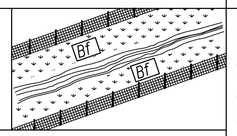
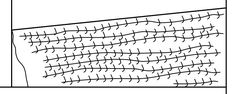
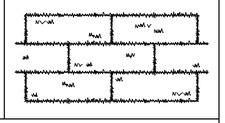
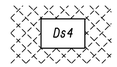
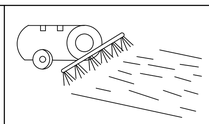
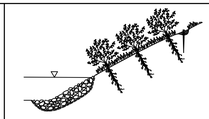
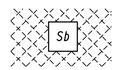
REVISION DATES

ESPCP GENERAL NOTES

CHECKED: DATE: BACKCHECKED: DATE: CORRECTED: DATE: VERIFIED: DATE:

DRAWING No. 51-0004

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
	LINE CODE	ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
	LINE CODE	ESA-25'(OR 50')STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
	SYMBOL	Bf	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds1	
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds2	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds3	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	PATTERN	 Ds4	
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
	SYMBOL	Fl-Co POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
	PATTERN	 Sb	

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

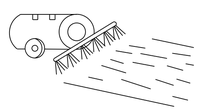
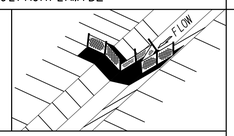
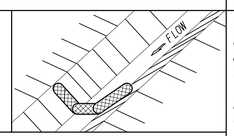
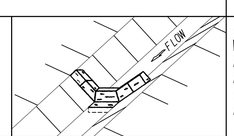
UNIFORM CODE SHEET

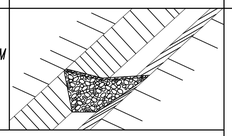
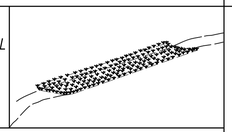
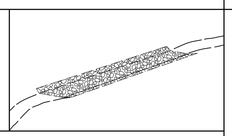
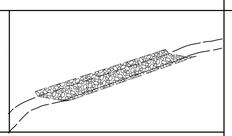
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0001

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN: Ss		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895 SYMBOL: Tac POLYACRYLAMIDE		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 SYMBOL: Cd-F		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL: Cd-Fs		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL: Cd-Hb		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603 SYMBOL: Cd-S		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-I	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE: Ch-I		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2RI	CHANNEL STABILIZATION RIP-RAP, TYPE I CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE: Ch-2RI		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE I RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE: Ch-2R3		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

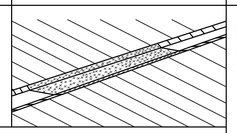
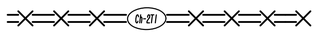
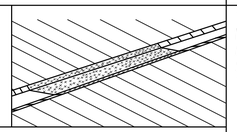
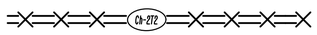
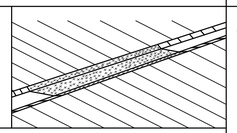
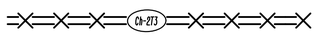
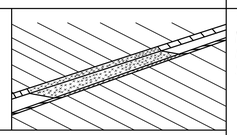
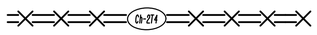
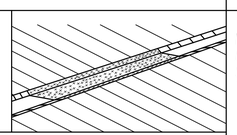
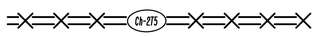
REVISION DATES
3/2/2017
11/28/2018

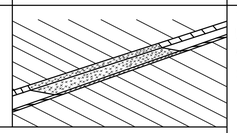
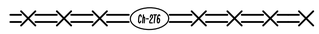
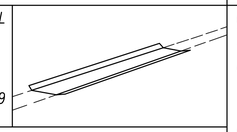
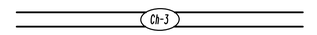
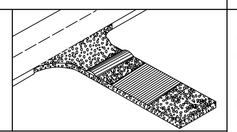
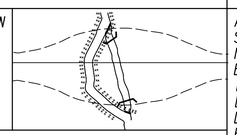
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441	 LINE CODE 	CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800	 SYMBOL 	A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

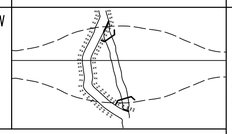
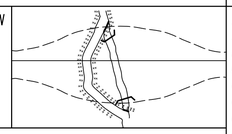
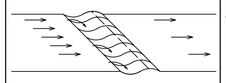
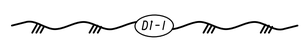
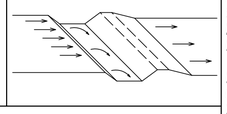
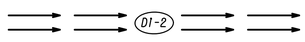
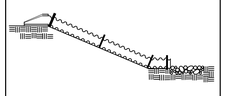
UNIFORM CODE SHEET

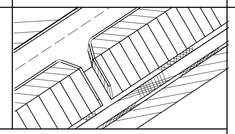
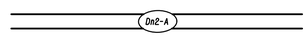
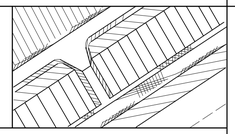
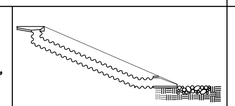
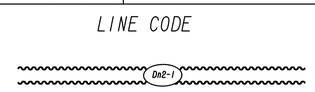
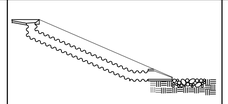
SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0003

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		
Dl-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS "Dnl"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE		
Dl-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
	LINE CODE		
Dnl	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0004
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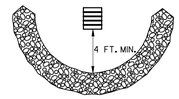
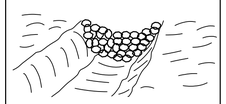
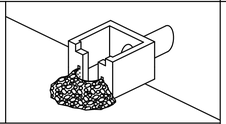
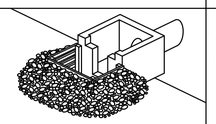
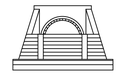
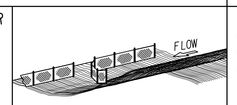
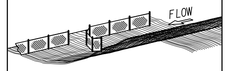
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL: Fr		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL: Rd		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT, THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE: Rd-B		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-I SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN: Rp		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL: Rt-P		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL: Rt-B		
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
	SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3		
Sdl-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE: A Sdl-NS A		
Sdl-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE: C Sdl-S C		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
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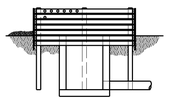
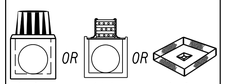
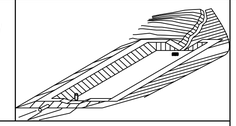
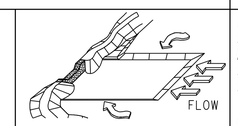
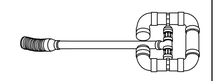
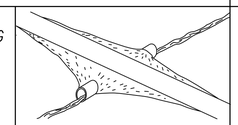
DRAWING No. 52-0005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL (Sd2-B)		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL (Sd2-Bg)		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL (Sd2-F)		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL (Sd2-G)		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd3)		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd4-C)		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL (Sk)		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL (Sr)		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
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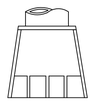
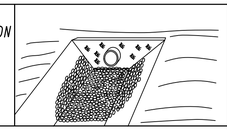
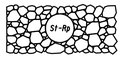
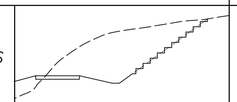
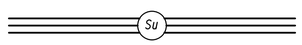
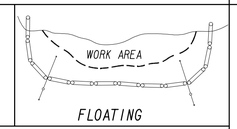
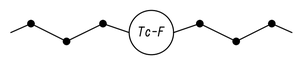
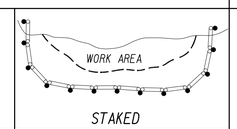
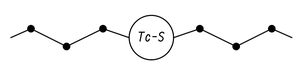
VERIFIED:		DATE:	

DRAWING No. 52-0006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL St		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 </= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
	PATTERN FLAT AREA  OR  WELL-DEFINED CHANNEL		
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE 		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE 		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 7 OF 7

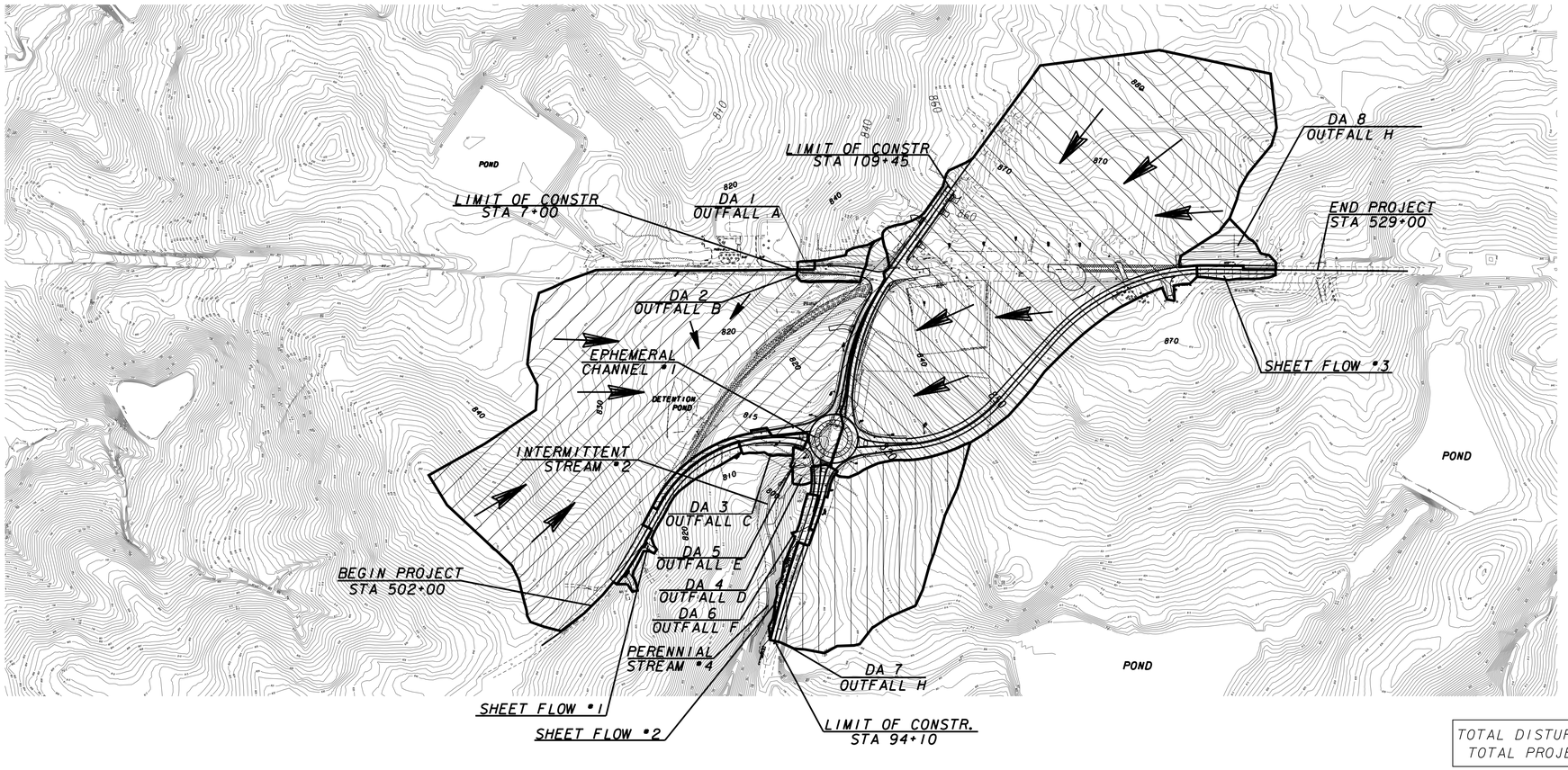
CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DATE$$$ TIME$$$ PRF DGN $USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	PI. No.
GA	CSSTP-0006-00(932)	0006932

OUTFALL NO.	OUTFALL STRUCTURE	AREA CONTRIBUTING	LOCATION	RECEIVING WATER	PRE C	POST C	PRE Q_{50} CFS	POST Q_{50} CFS	PRE Q_{100} CFS	POST Q_{100} CFS	PRE V_{50} CFS	POST V_{50} CFS	PRE V_{100} CFS	POST V_{100} CFS	AVG SLOPE	METHOD FOR Q
A	SPILLWAY TO DITCH	1	HURST ROAD STA 7+00. 16 FT LT	HONEY CREEK	0.62	0.67	0.19	0.21	0.21	0.23	1.40	1.45	1.45	1.50	5.00%	RATIONAL
B	DITCH OULET	2	HURST ROAD STA 7+00. 13 FT RT	HONEY CREEK	0.53	0.57	1.90	2.04	2.07	2.22	2.41	2.46	2.47	2.53	2.60%	RATIONAL
C	18" PIPE	3	RELOC KLONDIKE RD STA 510+00. 47 FT RT	HONEY CREEK	0.34	0.93	0.81	2.21	0.88	2.42	8.0	10.76	8.2	11.04	8.70%	RATIONAL
D	42" CROSS PIPE	4	McDANIEL MILL RD SB STA 199+34. 49 FT LT	HONEY CREEK	0.44	0.48	69.05	75.33	75.40	82.26	19.0	20.25	20.0	20.72	3.80%	RATIONAL
E	36" CROSS PIPE	5	RELOC KLONDIKE ROAD STA 511+10. 65 FT RT	HONEY CREEK	0.39	0.44	49.97	56.38	54.55	61.55	18.50	19.10	19.00	19.48	3.75%	RATIONAL
F	18" PIPE	6	McDANIEL MILL ROAD STA 97+54. 28 FT LT	HONEY CREEK	0.57	0.93	0.83	1.36	0.91	1.48	3.80	4.41	3.90	4.52	1.10%	RATIONAL
G	DITCH OUTLET	7	McDANIEL MILL ROAD STA 94+10. 17 FT RT	HONEY CREEK	0.24	0.26	9.57	10.37	10.44	11.31	4.22	4.32	4.33	4.44	4.20%	RATIONAL
H	DITCH OUTLET	8	KLONDIKE ROAD STA 528+00. 21 FT LT	HONEY CREEK	0.43	0.44	1.85	1.89	2.01	2.06	1.84	1.85	1.89	1.9	1.90%	RATIONAL

DRAINAGE AREA #	DRAINAGE AREA DESCRIPTION	DRAINAGE AREA ACRES	DISTURBED AREA ACRES
1	SPILLWAY	0.03	0.03
2	DITCH OUTLET	0.36	0.27
3	18" PIPE	0.43	0.43
4	42" PIPE	20.70	4.70
5	36" PIPE	18.60	2.00
6	18" PIPE	0.18	0.18
7	DITCH OUTLET	5.19	0.53
8	DITCH OUTLET	0.56	0.28
	SHEET FLOW	0.88	0.88



N

GEORGIA REGISTERED No. 15208 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

TOTAL DISTURBED AREA - 9.3 ACRES
TOTAL PROJECT SIZE - 13.25 ACRES

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0 200 400 800

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ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DRAINAGE AREA MAP

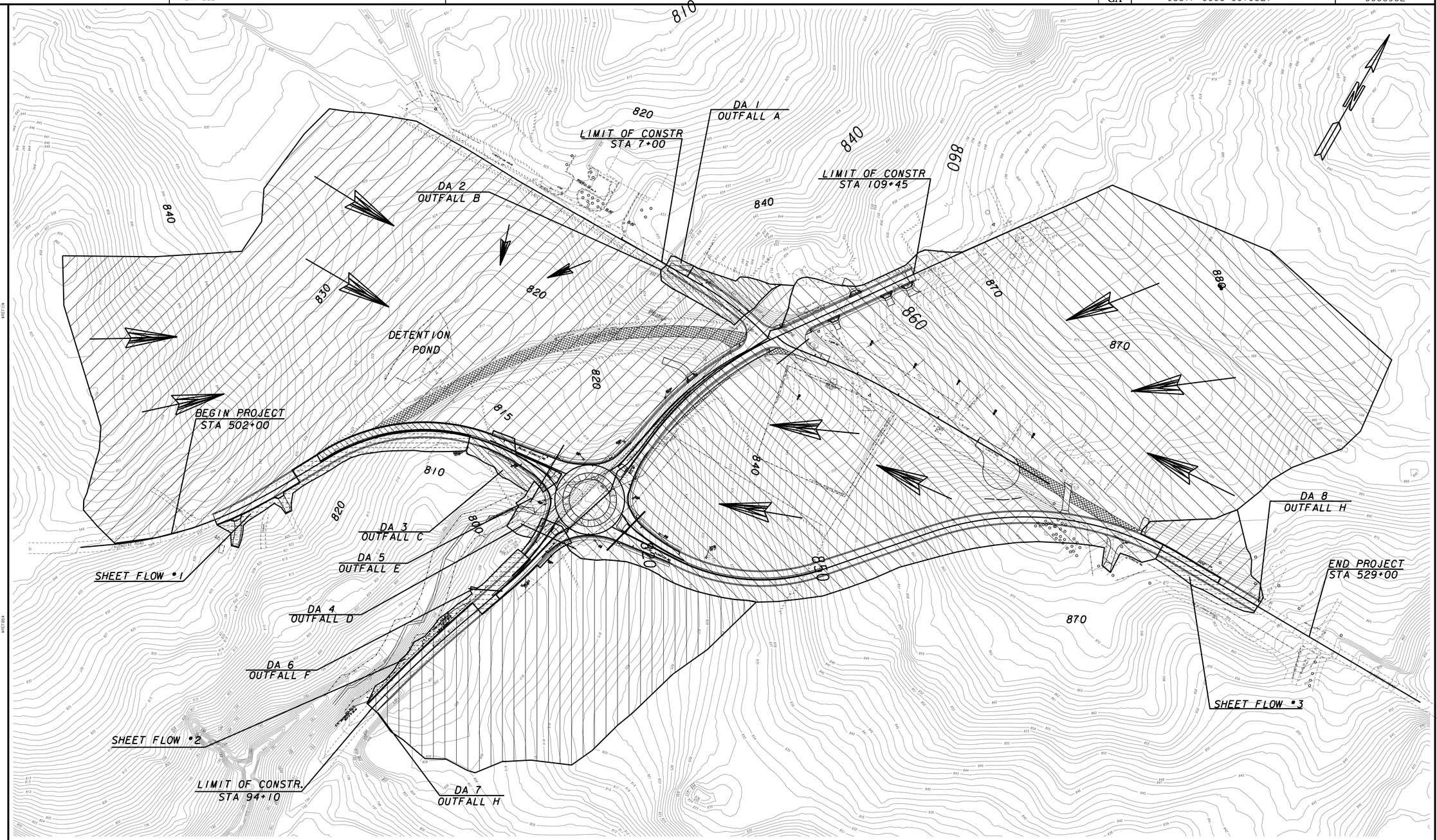
KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 53-0001

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF
$USER$ $$PENTABLE$$
DGN

STATE	PROJECT NUMBER	P.I. No.
GA	CSSTP-0006-00(932)	0006932



GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

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DEPARTMENT OF TRANSPORTATION

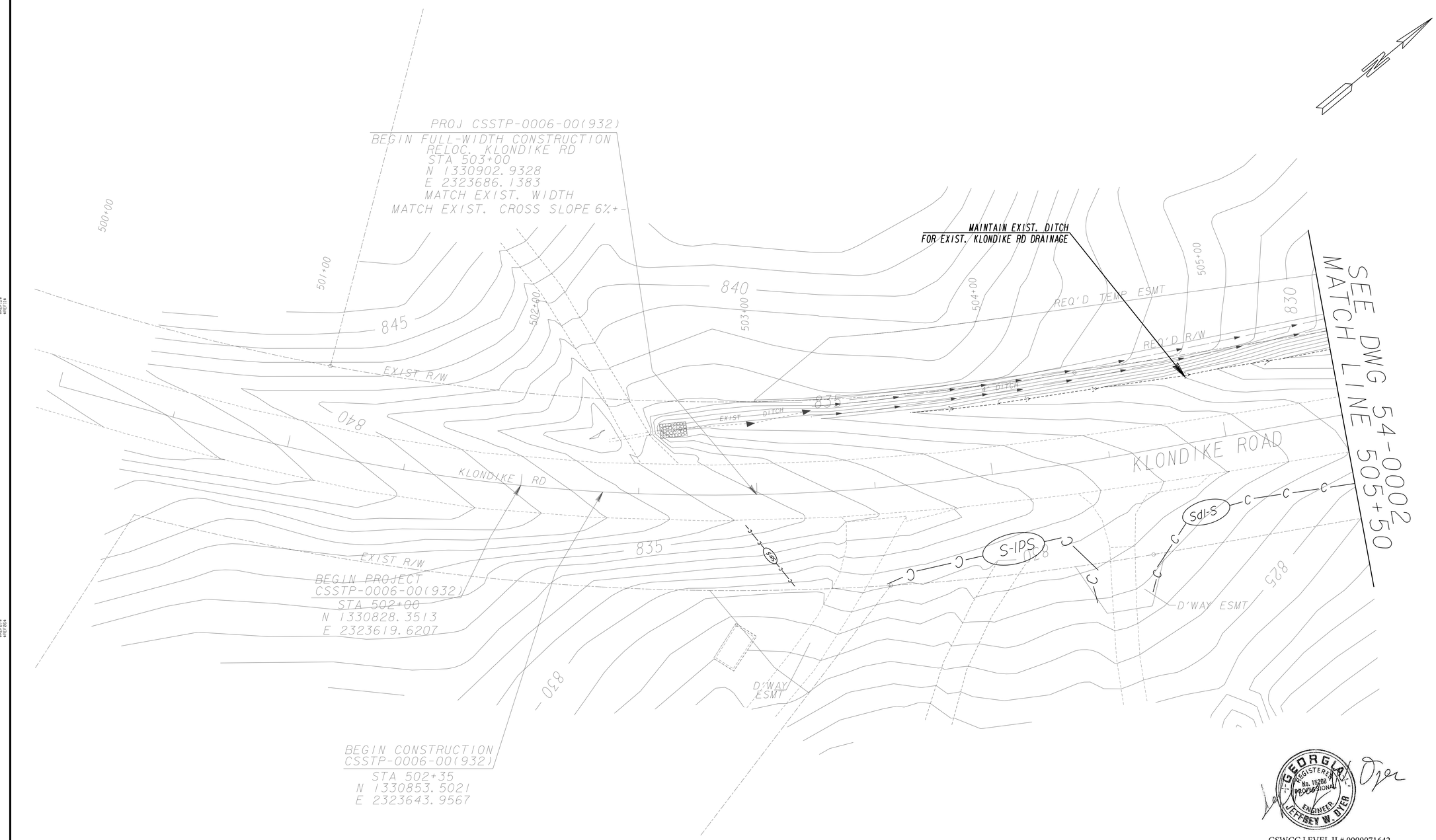
EROSION CONTROL DRAINAGE AREA MAP

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 53-0002

3/1/2007 GPLN

DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdt-F Sdt-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-W- Ch-Bt		

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ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INITIAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0001

3/1/2007 GPLN

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DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-1 Sd2-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-42- Ch-Br		

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DEPARTMENT OF TRANSPORTATION

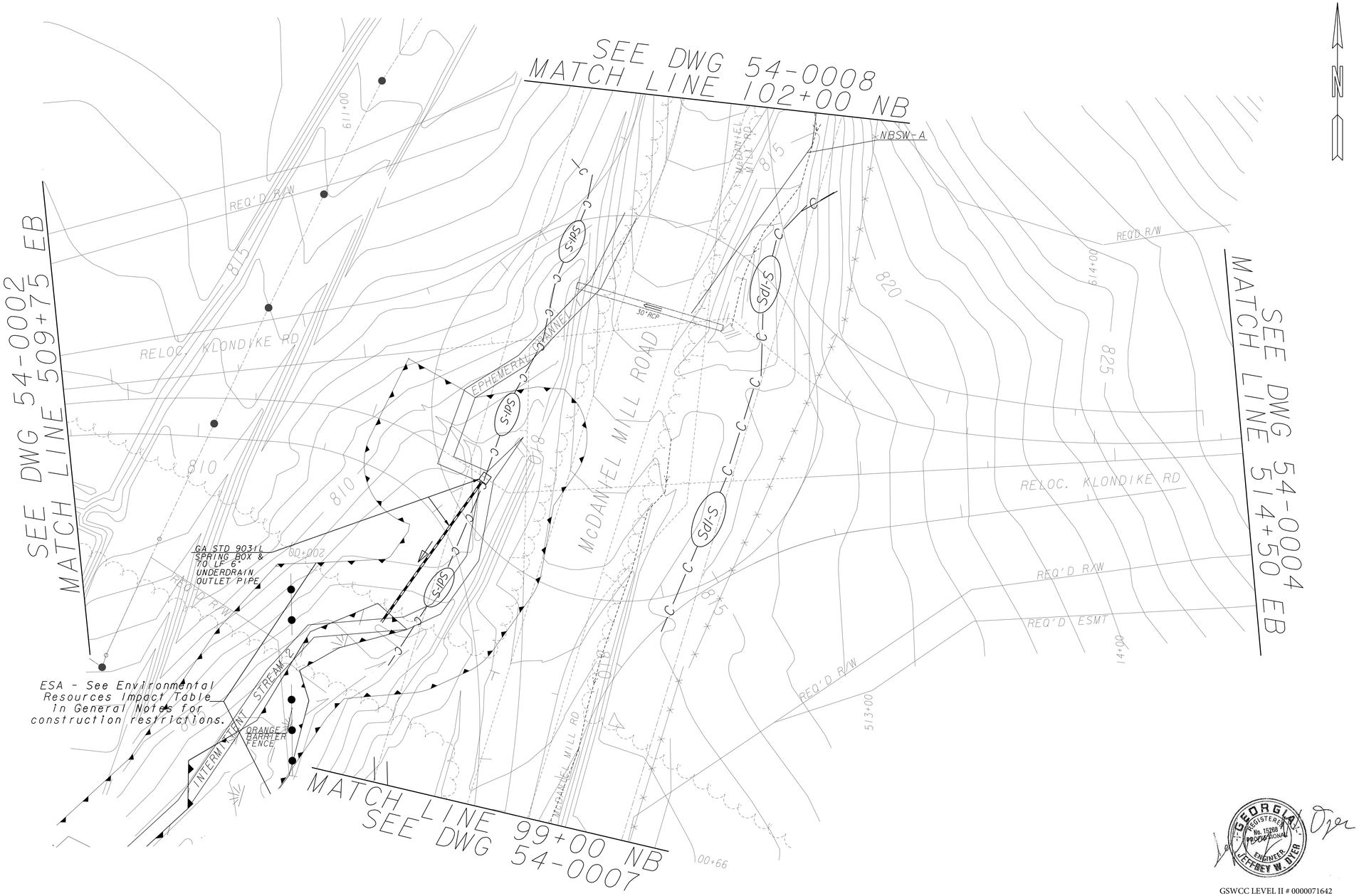
INITIAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0002

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Sd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sd-1-S)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sd-1-S)
BITUMINOUS TREATED ROVING	-W3- (Ch-Bt)		

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INITIAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0003

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF DGN $USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P.I. No.
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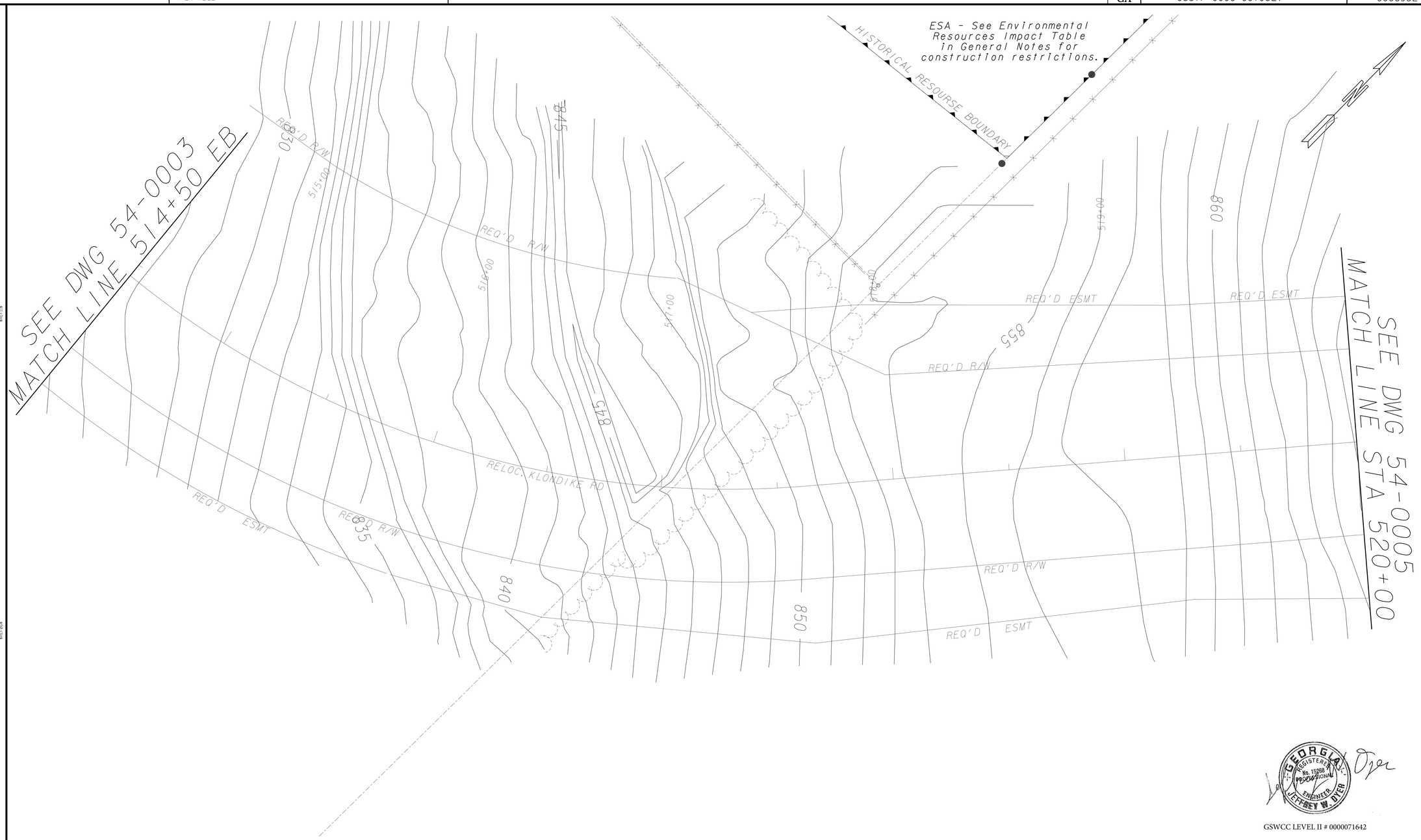

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Cd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf1-RS)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf1-S)
BITUMINOUS TREATED ROVING	-(Ch-Bt)-		

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DEPARTMENT OF TRANSPORTATION

INITIAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0004

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-1 Sd2-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
RIP RAP			
BITUMINOUS TREATED ROVING	-V2- (Ch-Bt)		

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DEPARTMENT OF TRANSPORTATION

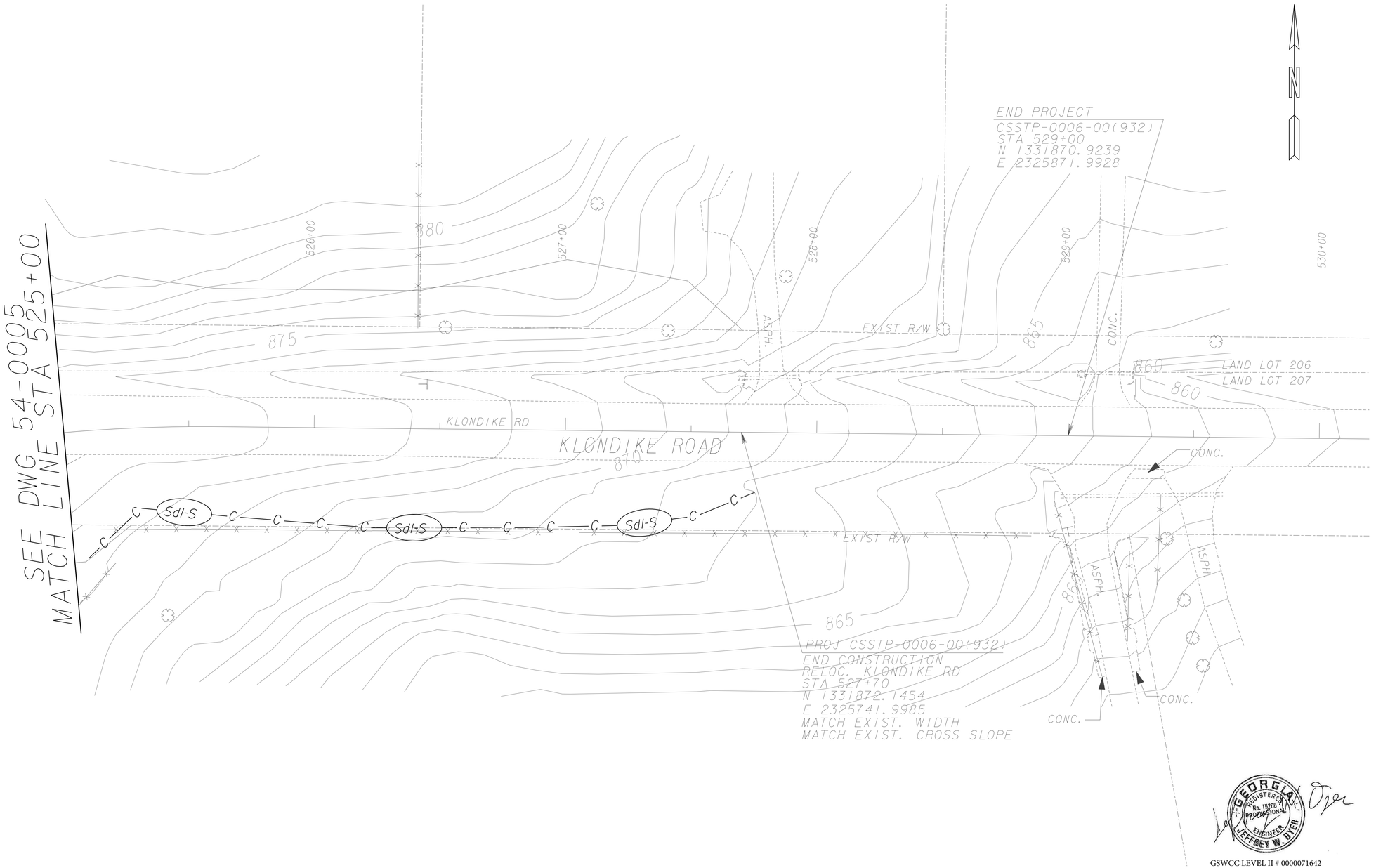
INITIAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0005

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd-T Sd-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-U- Ch-Bt		

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DEPARTMENT OF TRANSPORTATION

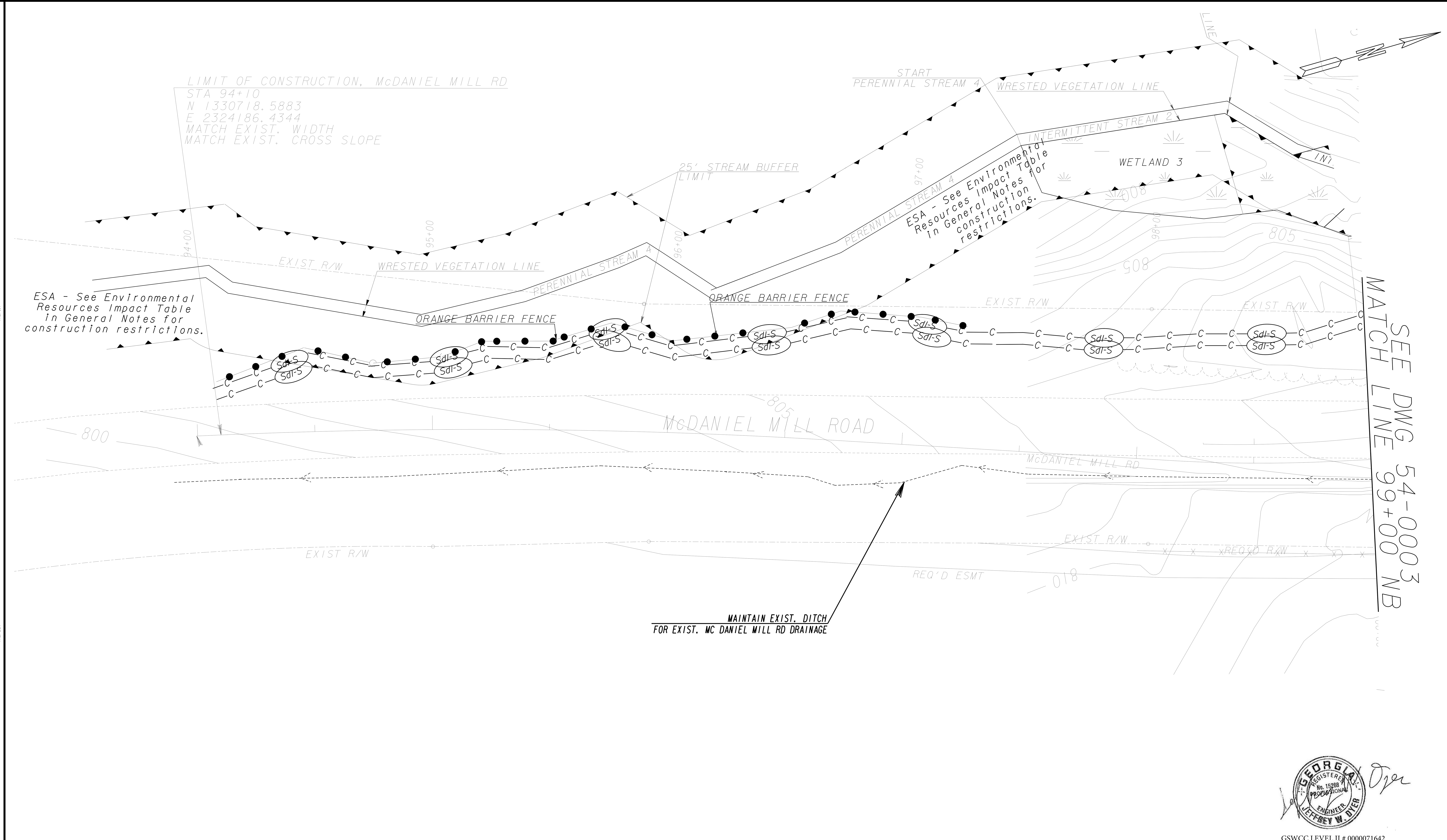
INITIAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0006

3//2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-P, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
RIP RAP			
BITUMINOUS TREATED ROVING	Ch-Bt		

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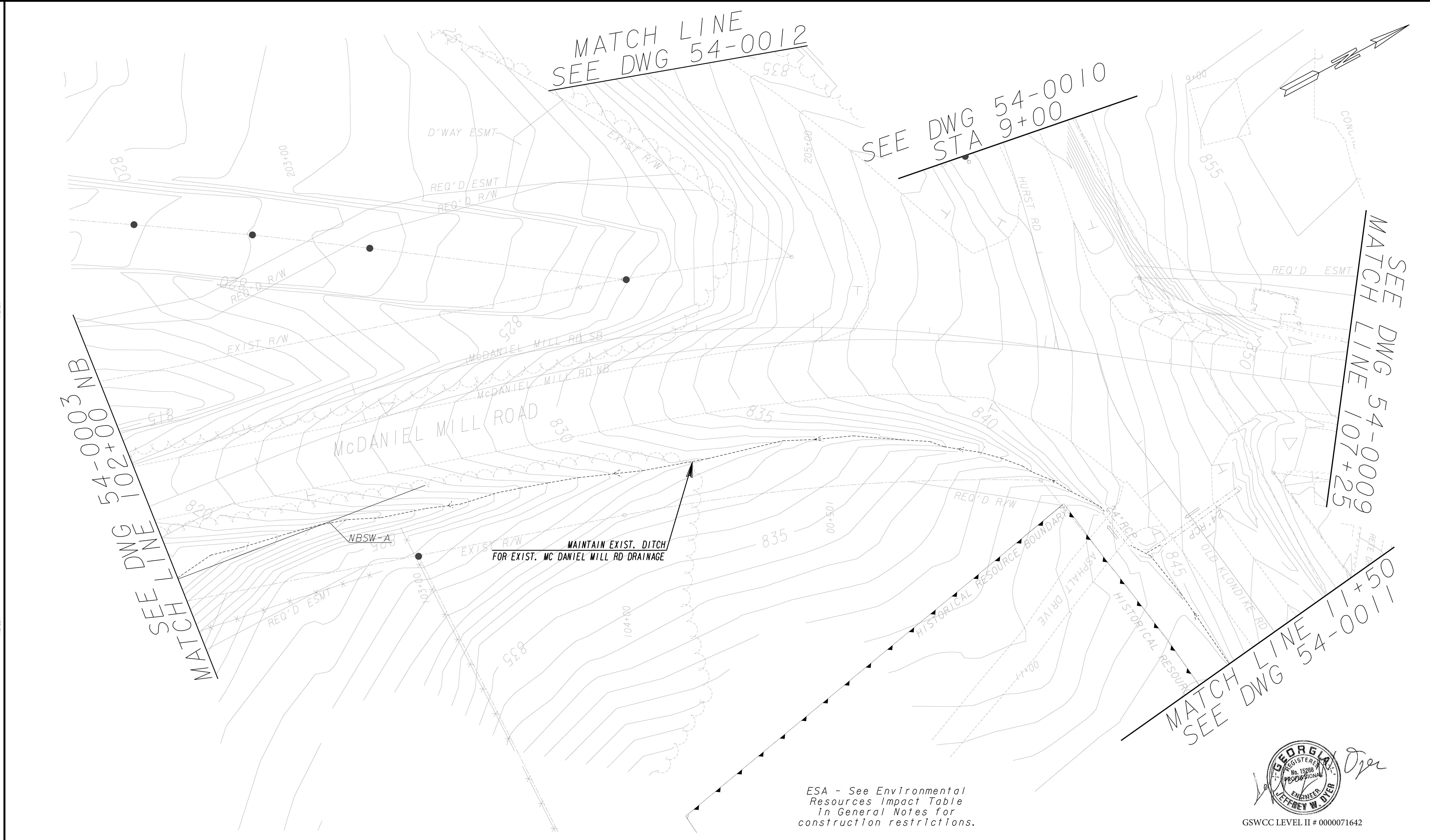
DEPARTMENT OF TRANSPORTATION

INITIAL PHASE
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
54-0007

3/1/2007 GPLN

STATE	PROJECT NUMBER	P.I. No.
GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	Sd2-P, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	Ch-Bt		

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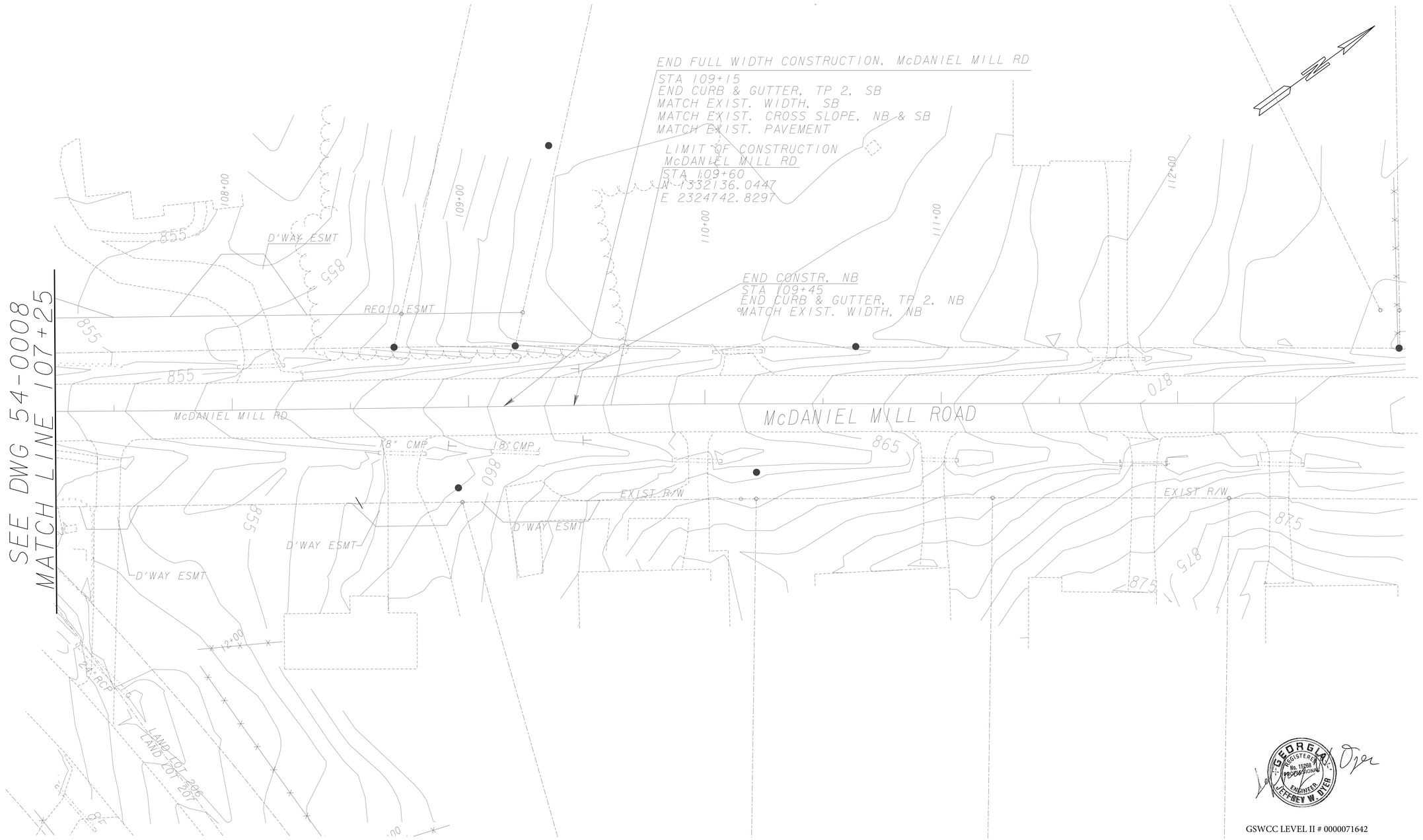
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INITIAL PHASE
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0008

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-1 Sd2-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-Ns
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	-W2- Ch-B2		

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DEPARTMENT OF TRANSPORTATION

INITIAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0009

3/1/2007 GPLN

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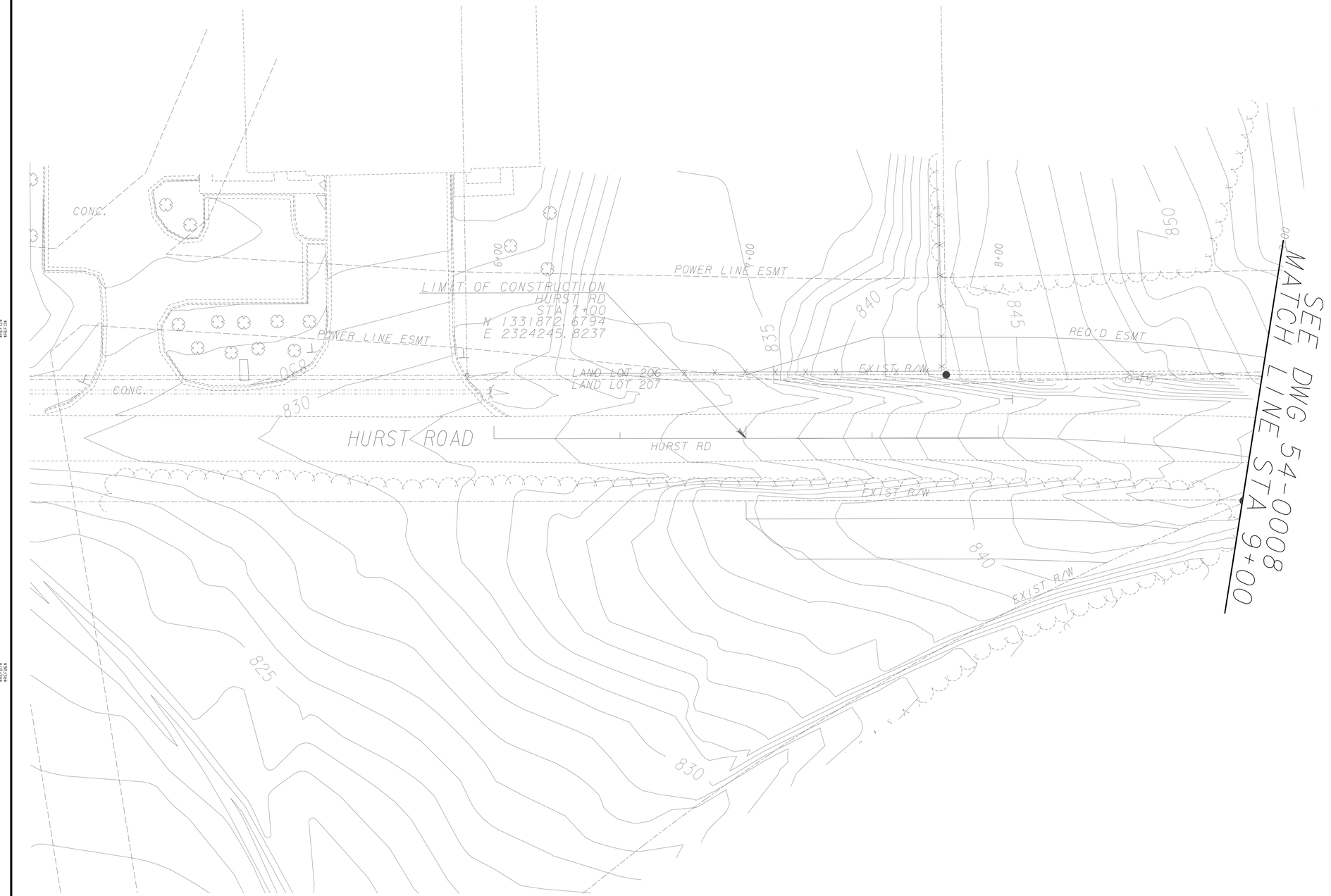

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-T) (Sd-B)	FABRIC CHECK DAM	(Cd-F)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf1-RS)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf1-S)
BITUMINOUS TREATED ROVING	(-U2) (Ch-Br)		

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INITIAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0010

3/1/2007 GPLN

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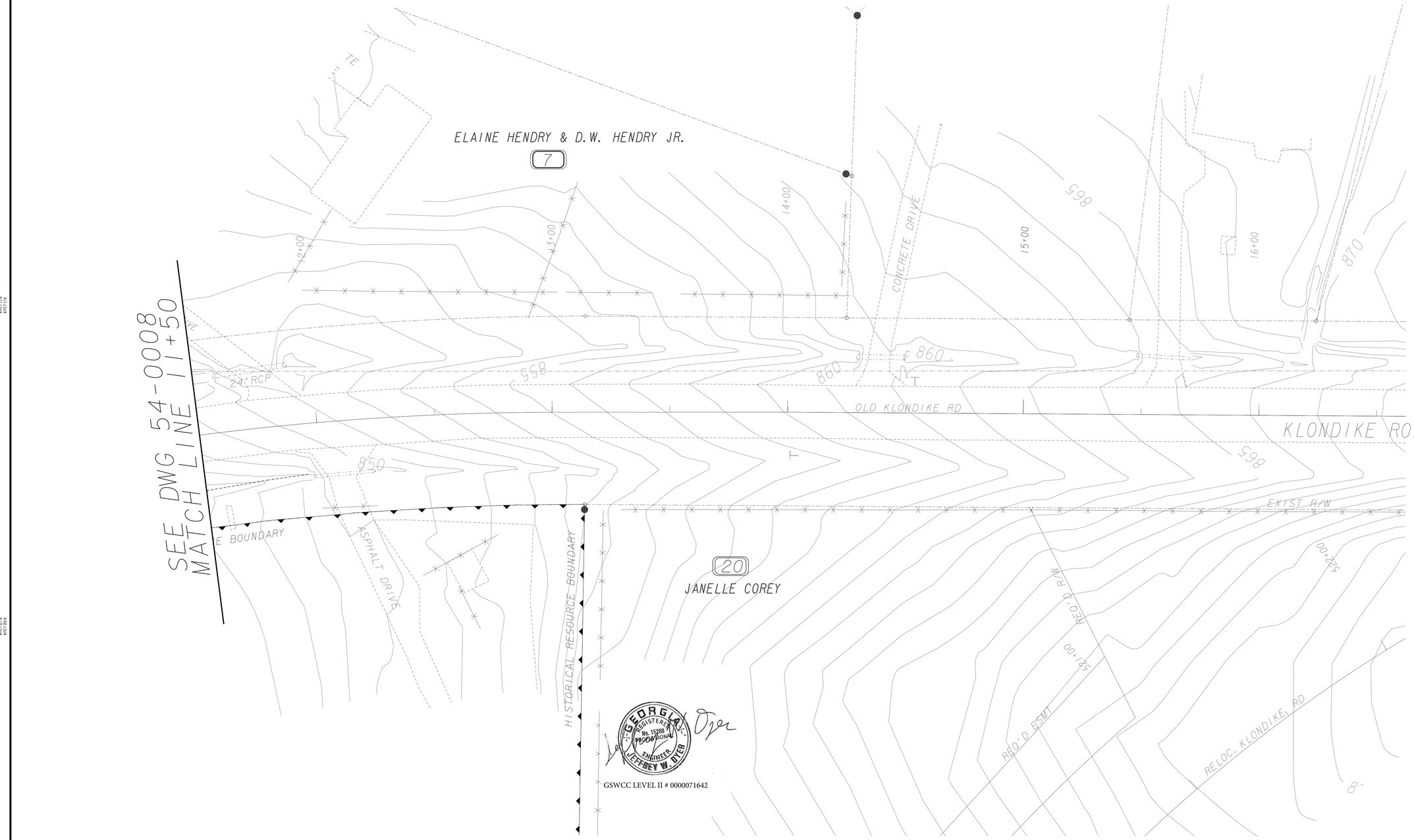

GEORGIA REGISTERED No. 15288 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sed-1 Sed-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Ce
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sfl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sfl-S
RIP RAP			
BITUMINOUS TREATED ROVING	-U- Ch-Bt		

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INITIAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 54-0011

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DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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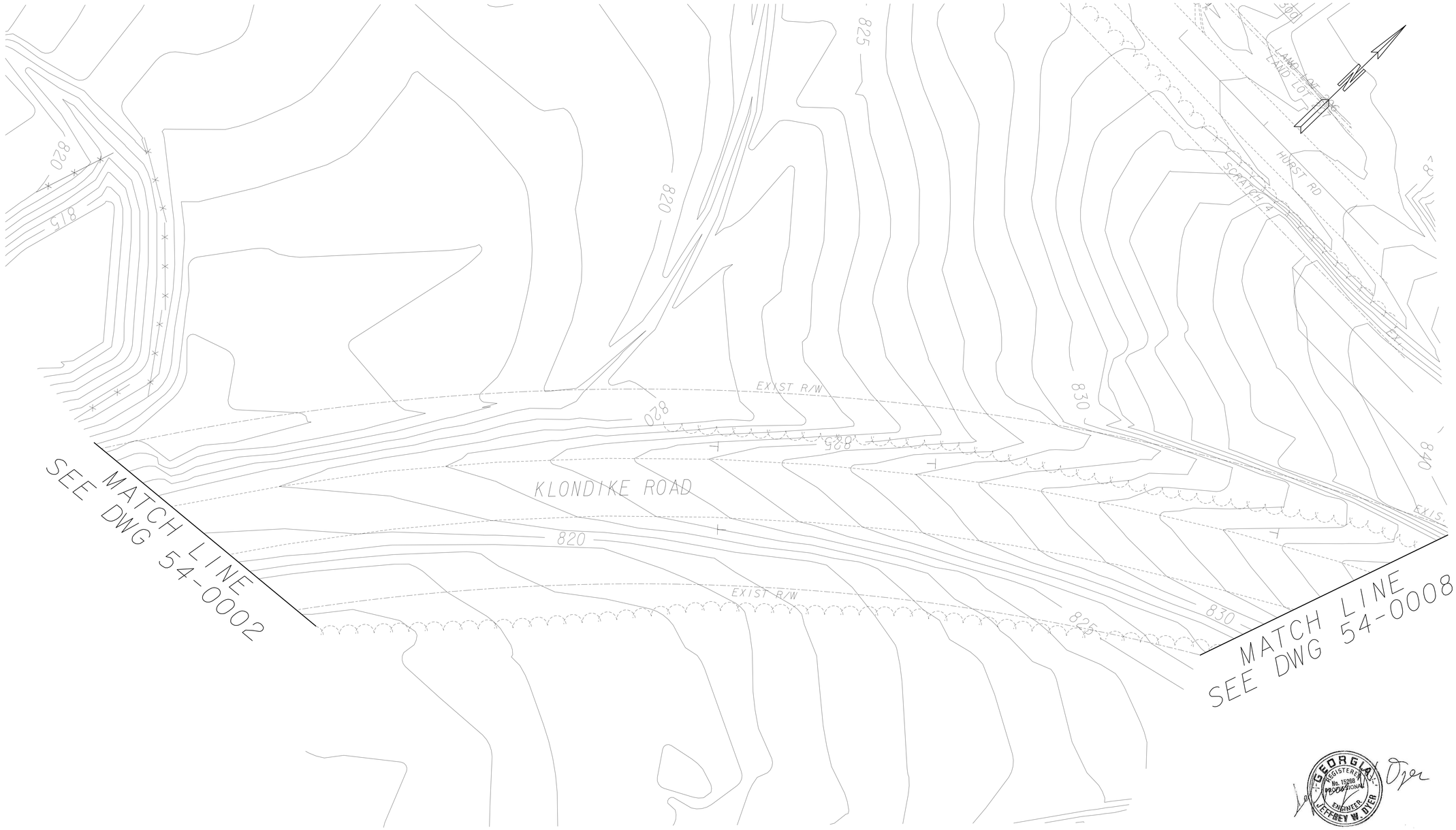

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd-1 Sd-2	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf-S
BITUMINOUS TREATED ROVING	-U- Ch-Bt		

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INITIAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0012

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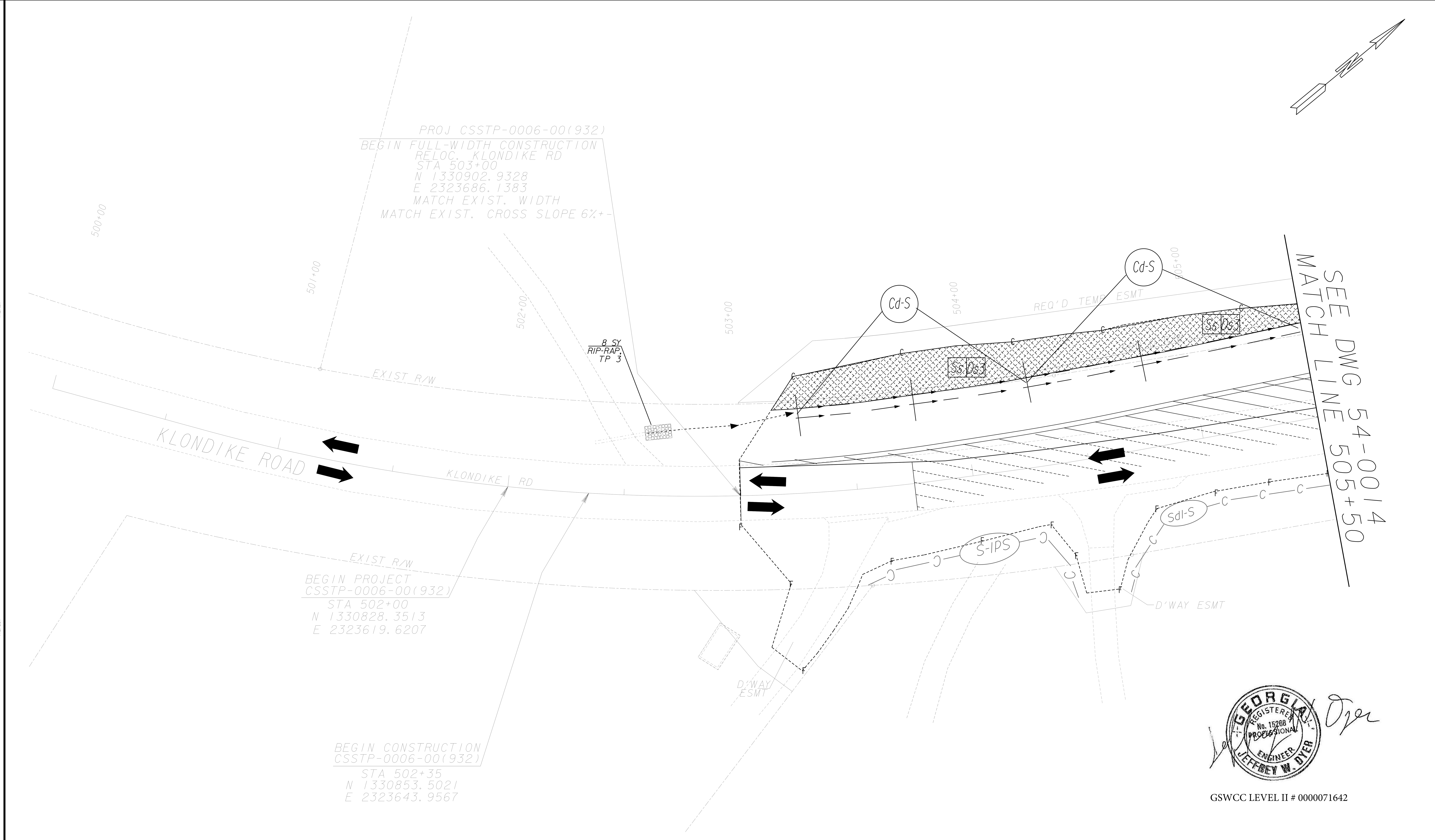

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 15268 JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-P, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
RIP RAP			
BITUMINOUS TREATED ROVING	Ch-Bt		

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INTERMEDIATE PHASE - STAGE I
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
54-0013

3/1/2007 GPLN

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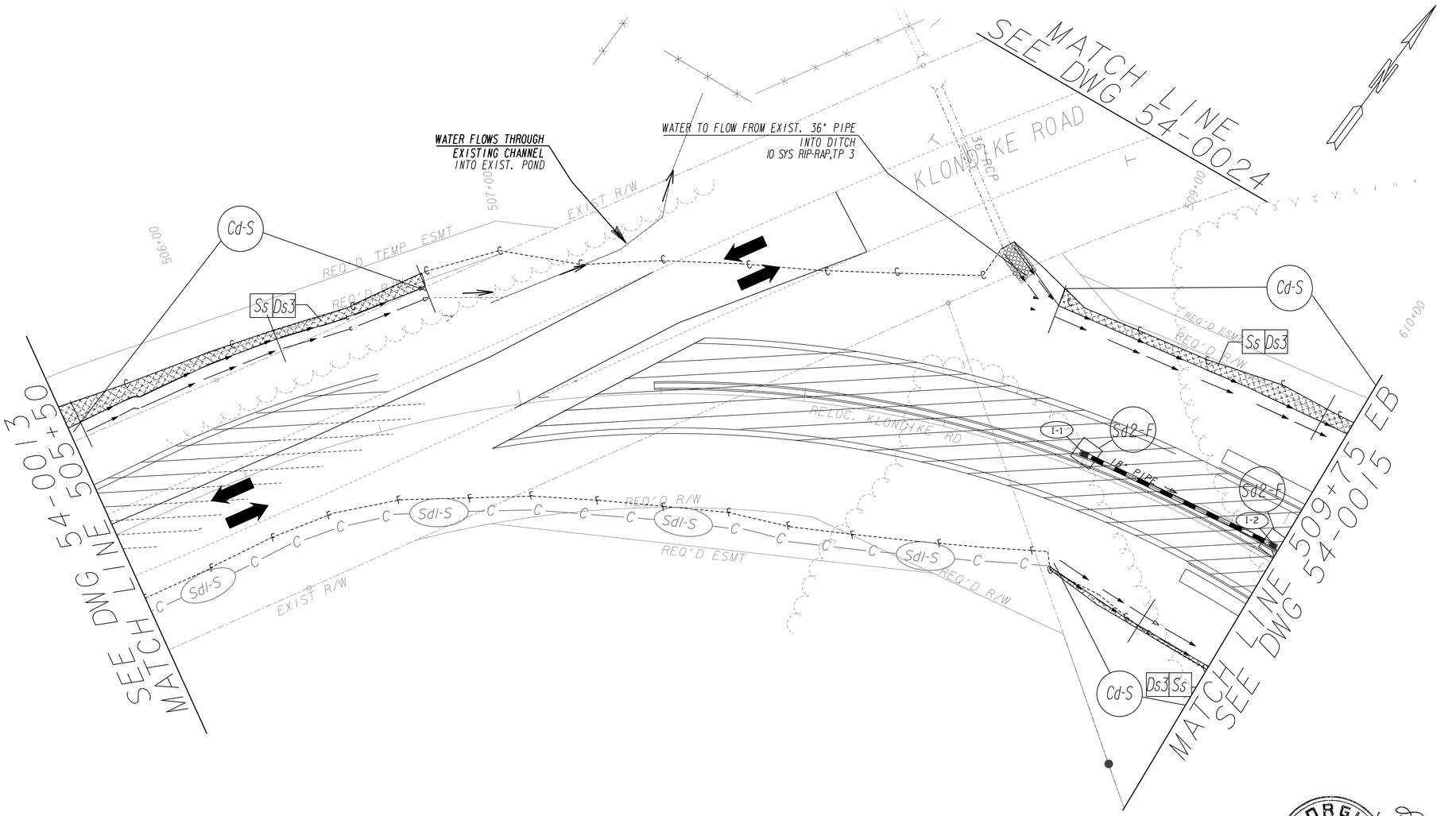

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-43- Ch-B1		

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INTERMEDIATE PHASE - STAGE 1 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0014

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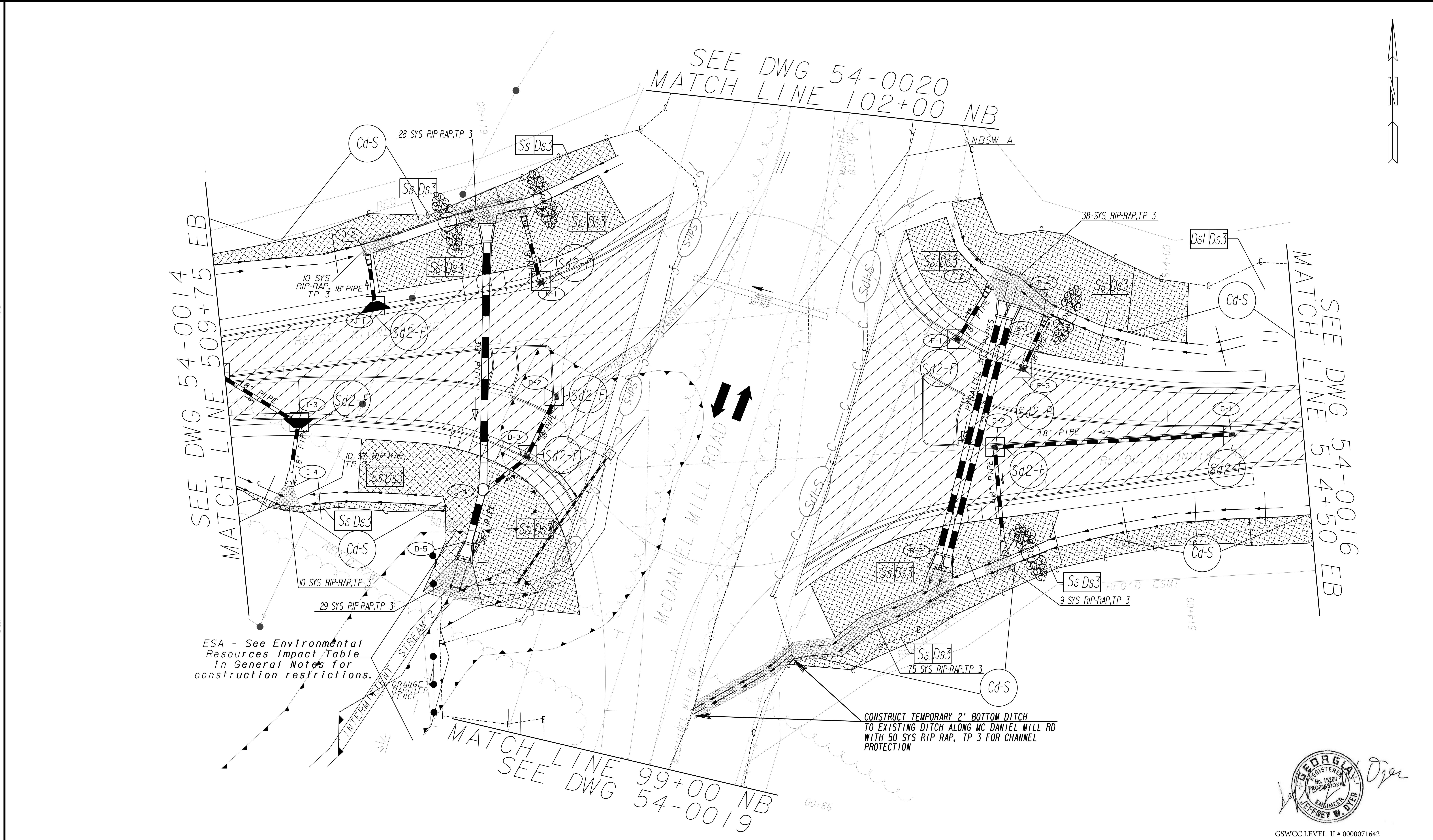

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-F, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	Ch-Bt		

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INTERMEDIATE I - STAGE I
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

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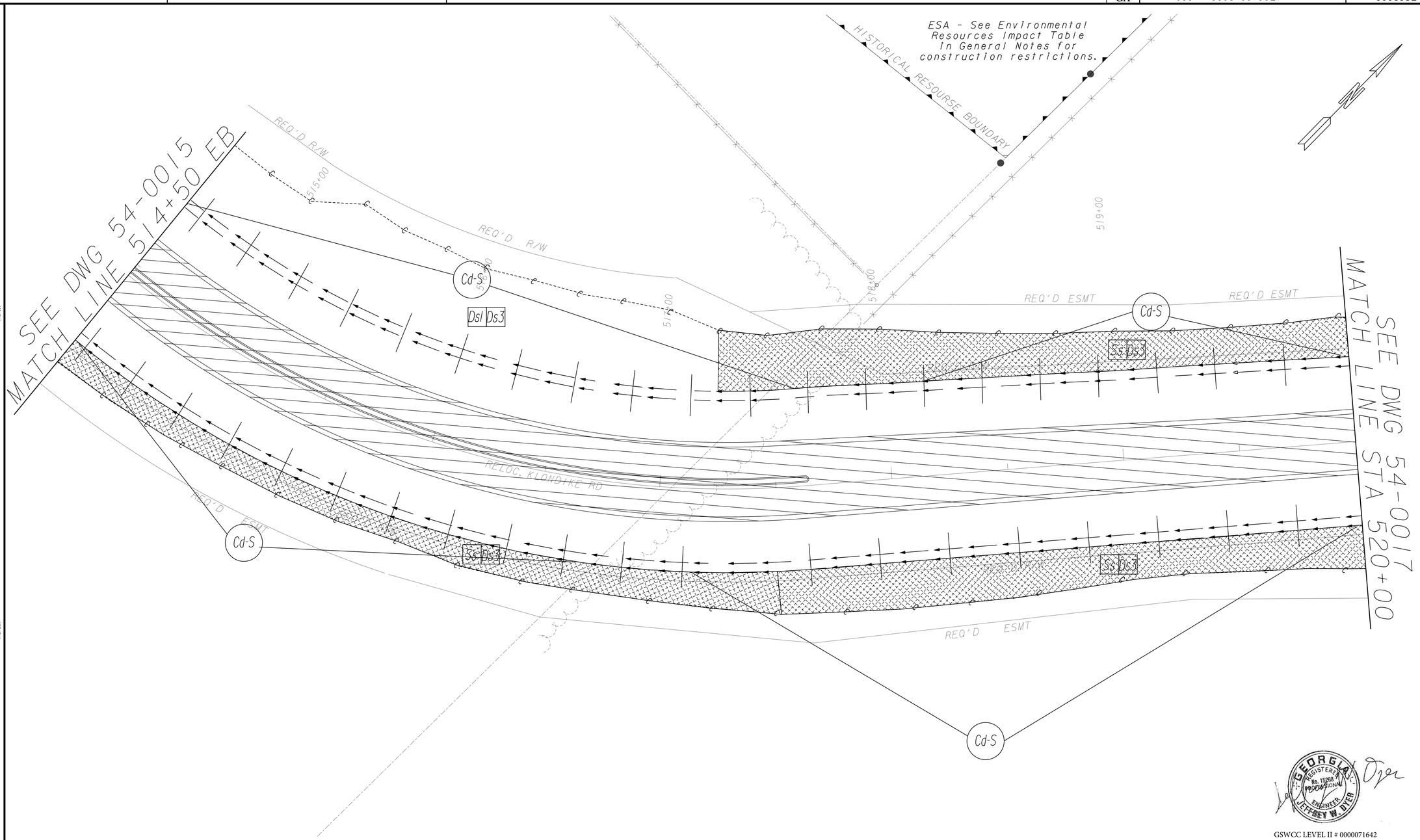

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-7) (Sd-8)	FABRIC CHECK DAM	(Sd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-A)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-C)
BITUMINOUS TREATED ROVING	(-U) (Ch-Bt)		

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INTERMEDIATE PHASE - STAGE I BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0016

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DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
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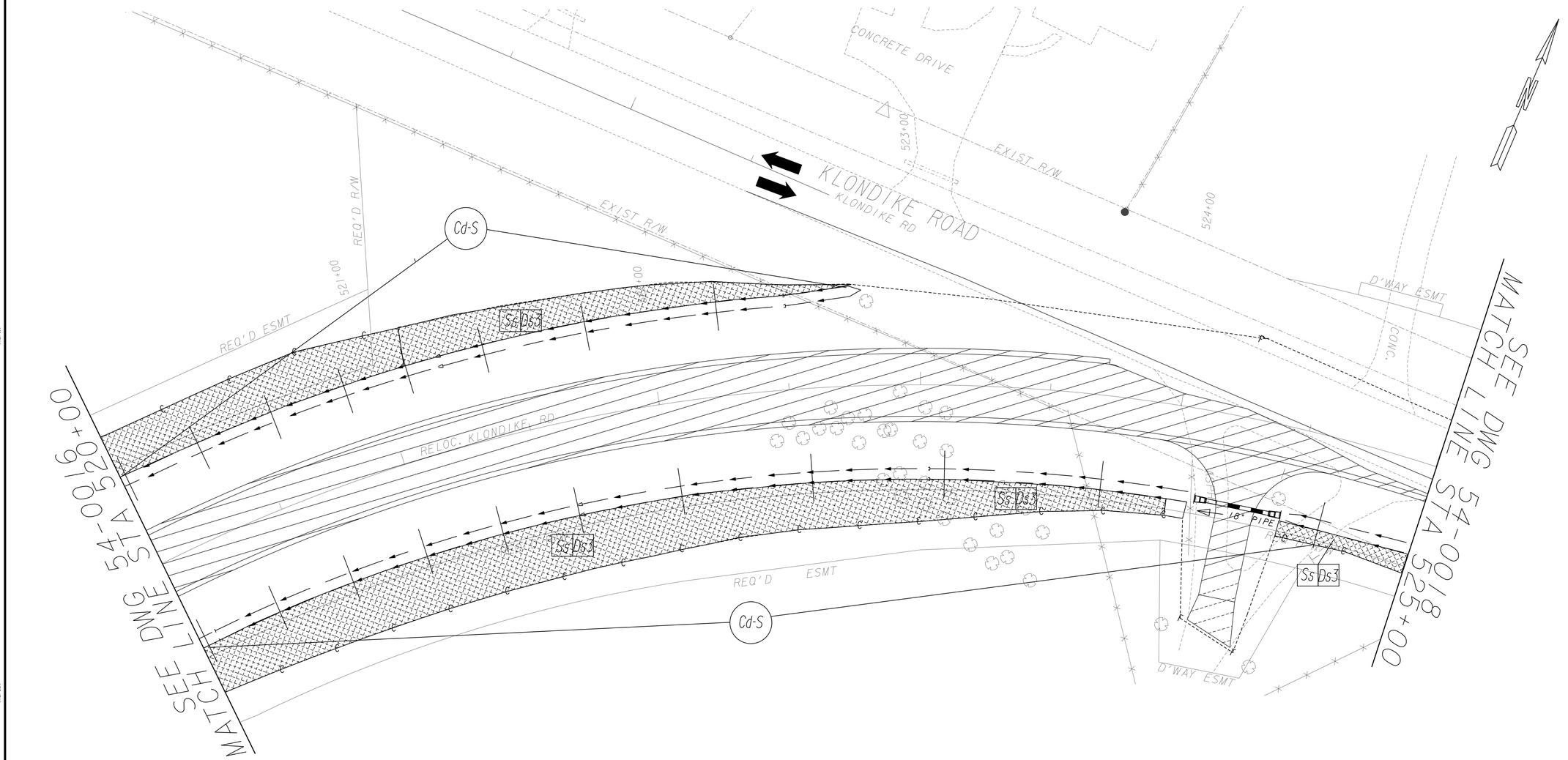

GEORGIA REGISTERED No. 15208 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Cd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-1A)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-1C)
BITUMINOUS TREATED ROVING	-W- (Ch-Br)		

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INTERMEDIATE PHASE - STAGE 1 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0017

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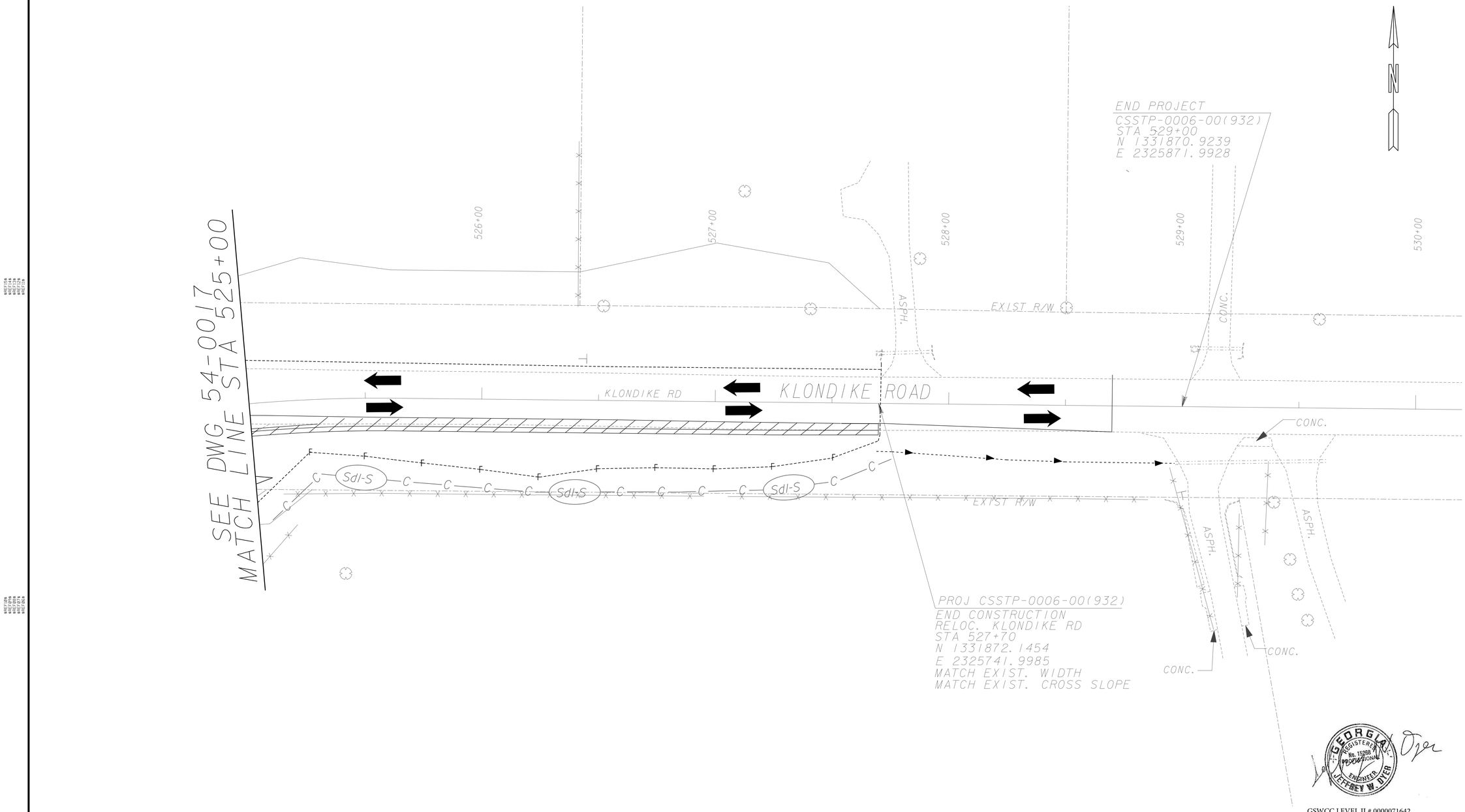

SEDIMENT TRAP	Sdt-1 Sdt-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-RS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-42 Ch-B2		

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INTERMEDIATE PHASE - STAGE I BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 54-0018

3/1/2007 GPLN

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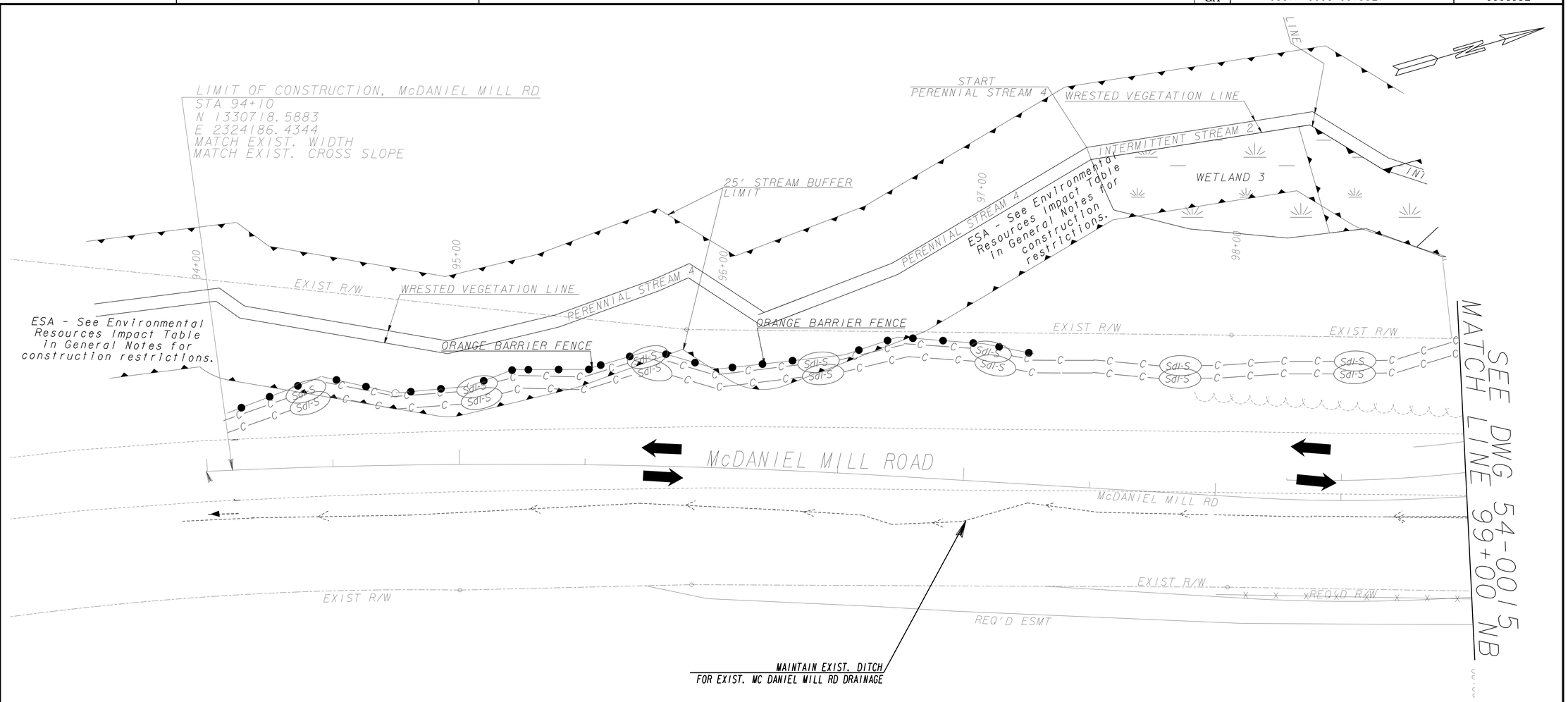

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-T) (Sd-B)	FABRIC CHECK DAM	(Df-T)
SILT CONTROL GATE	(Sg) (Sg-T)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-NS)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-S)
BITUMINOUS TREATED ROVING	(-U-) (Ch-Bt)		

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INTERMEDIATE PHASE - STAGE I BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0019

STATE	PROJECT NUMBER	P.I. No.
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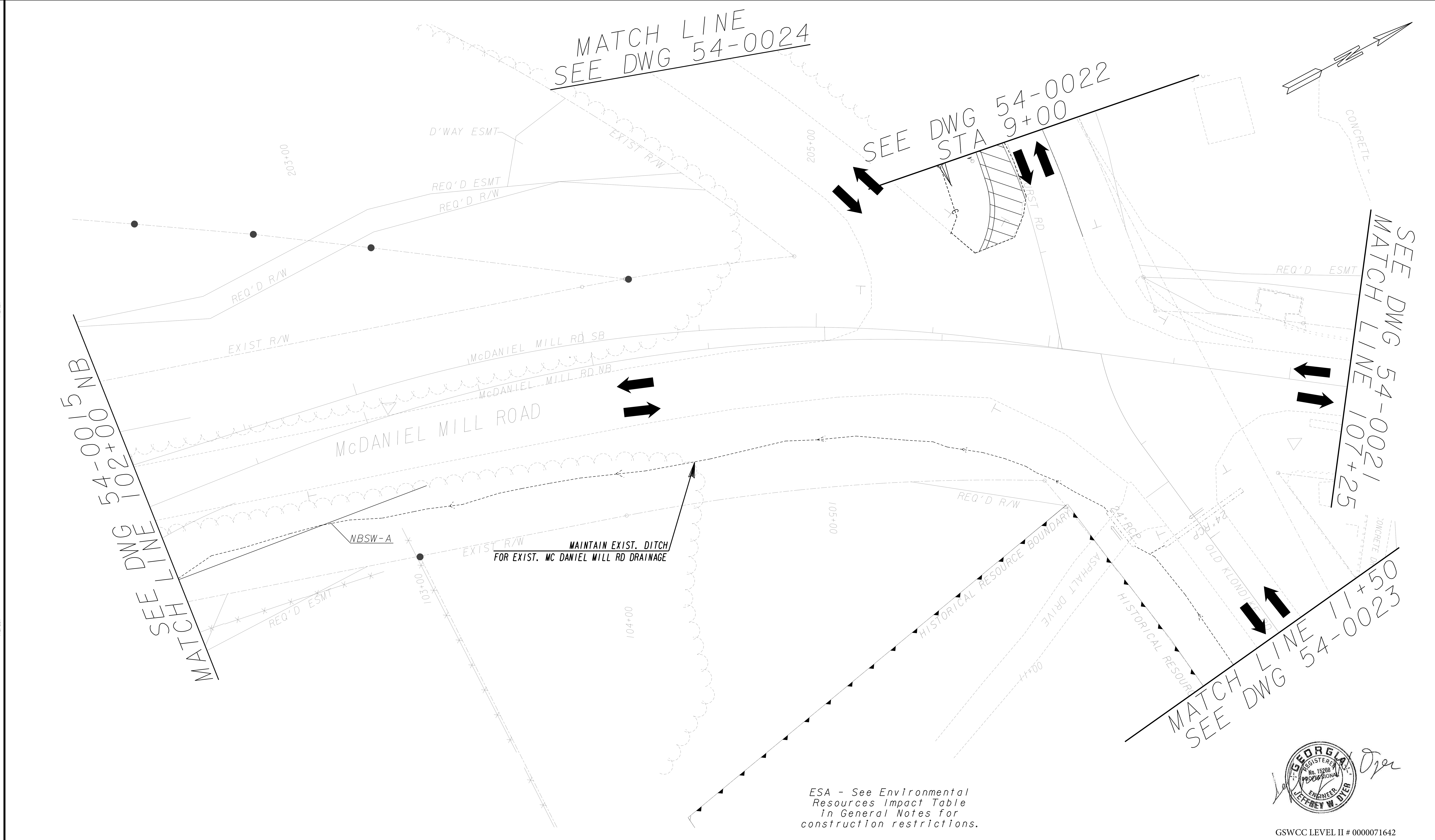

SEDIMENT TRAP	(Sd2-F) (Sd2-B)
SILT CONTROL GATE	(Sg) (Sg-3)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)
STORM DRAIN OUTLET PROTECTION	(St-Rp)
RIP RAP	
BITUMINOUS TREATED ROVING	(Ch-Bt)
FABRIC CHECK DAM	(Cd-F)
CONSTRUCTION EXIT	(Co)
SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sd1-NS)
SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sd1-S)

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INTERMEDIATE PHASE - STAGE I
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0020

3/1/2007 GPLN

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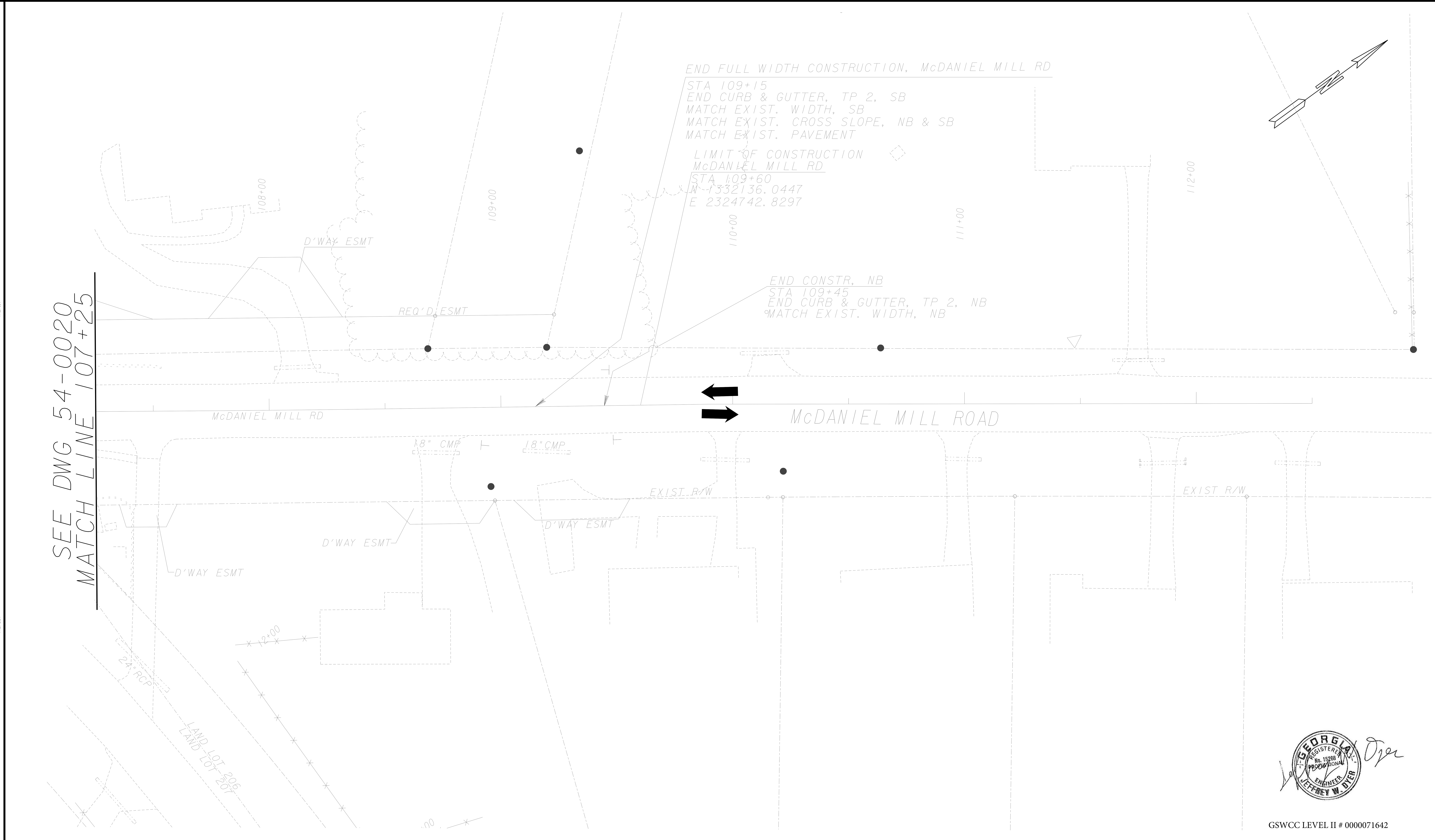

SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
RIP RAP			
BITUMINOUS TREATED ROVING	Ch-Bt		

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INTERMEDIATE PHASE - STAGE I
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
54-0021

3/1/2007 GPLN

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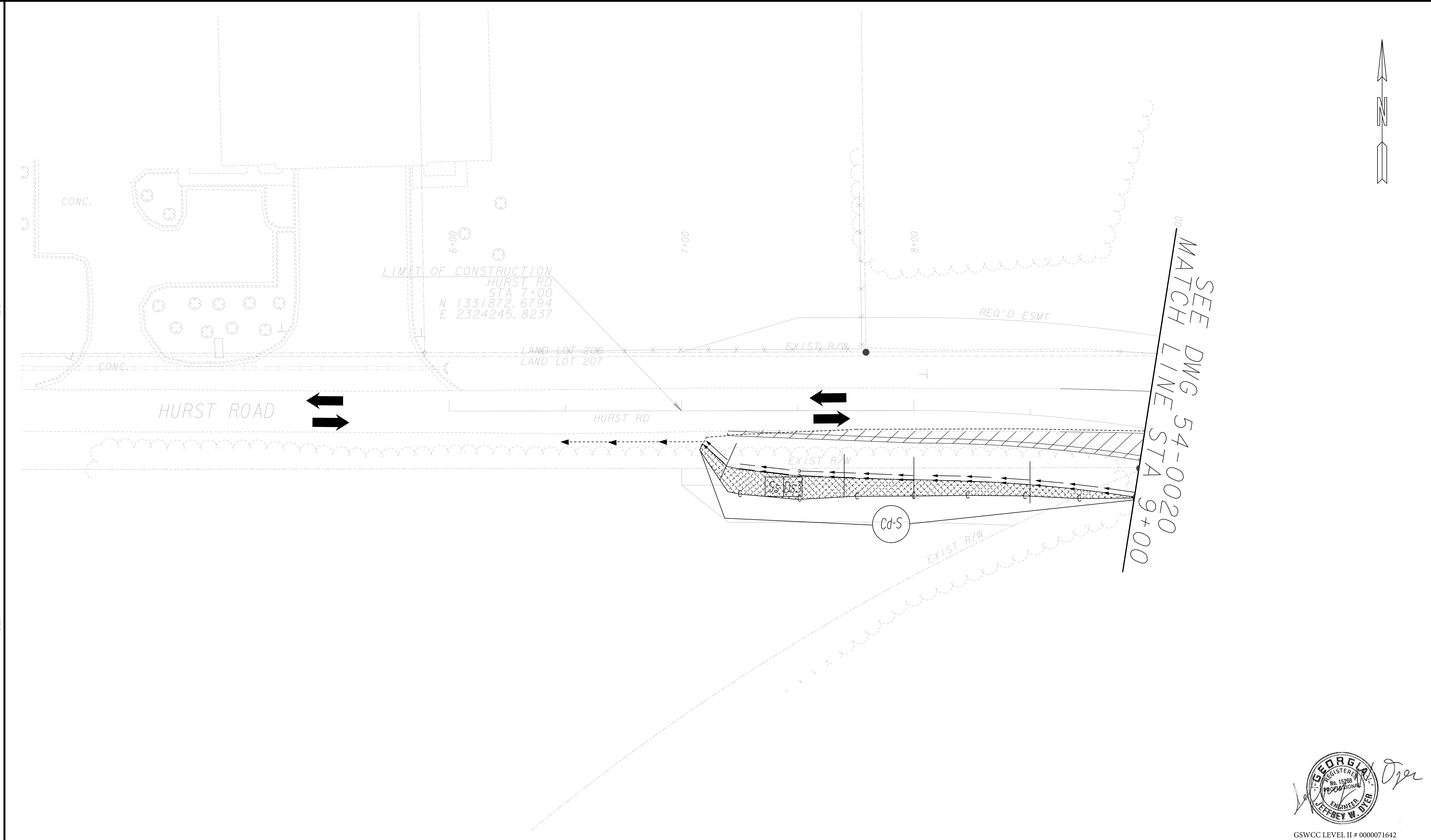

SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	Ch-Bt		

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INTERMEDIATE PHASE - STAGE I
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KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0022

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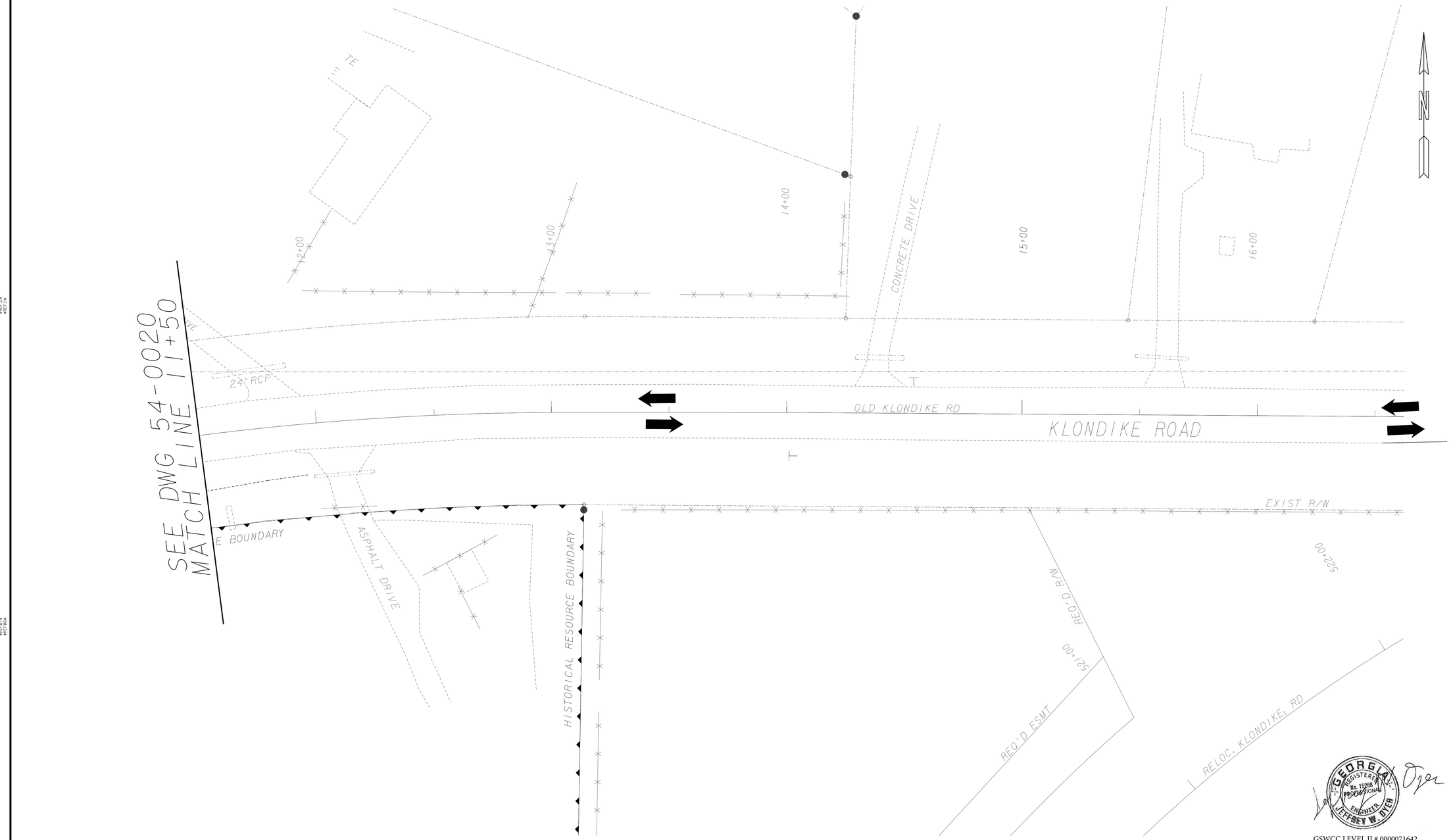

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Cd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-1A)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-1C)
BITUMINOUS TREATED ROVING	-43- (Ch-Bt)		

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INTERMEDIATE PHASE - STAGE I BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
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DRAWING No. 54-0023

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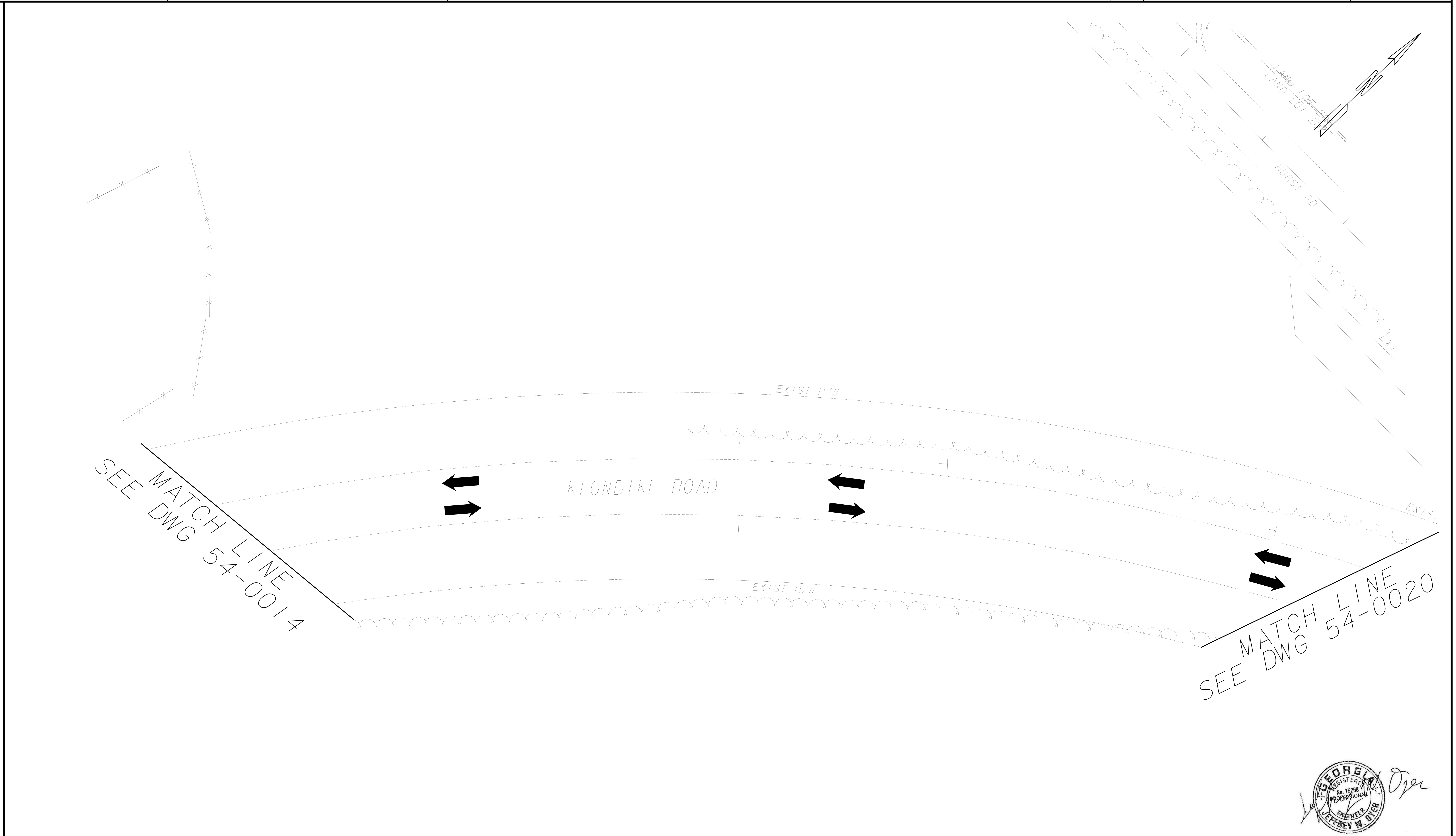

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-F Sd2-B
SILT CONTROL GATE	Sg Sg-3
CHANNEL RIP RAP TYPE 3	Ch-Rp3
STORM DRAIN OUTLET PROTECTION	St-Rp
RIP RAP	
BITUMINOUS TREATED ROVING	Ch-Bt
FABRIC CHECK DAM	Cd-F
CONSTRUCTION EXIT	Co
SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S

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INTERMEDIATE PHASE - STAGE I
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
54-0024

3/1/2007 GPLN

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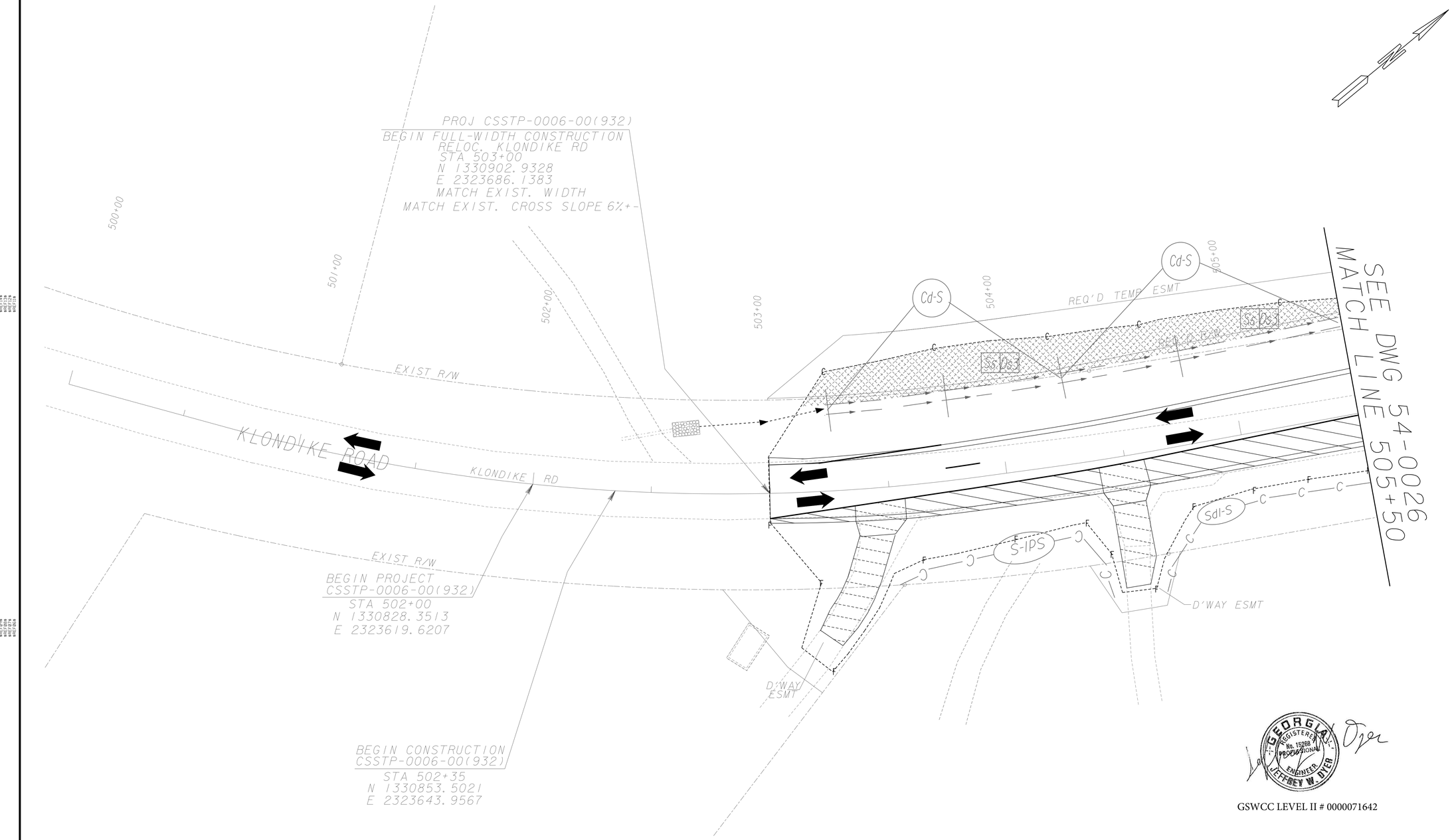

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-T Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-WS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
RIP RAP			
BITUMINOUS TREATED ROVING	~W2 Ch-Bt		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0025

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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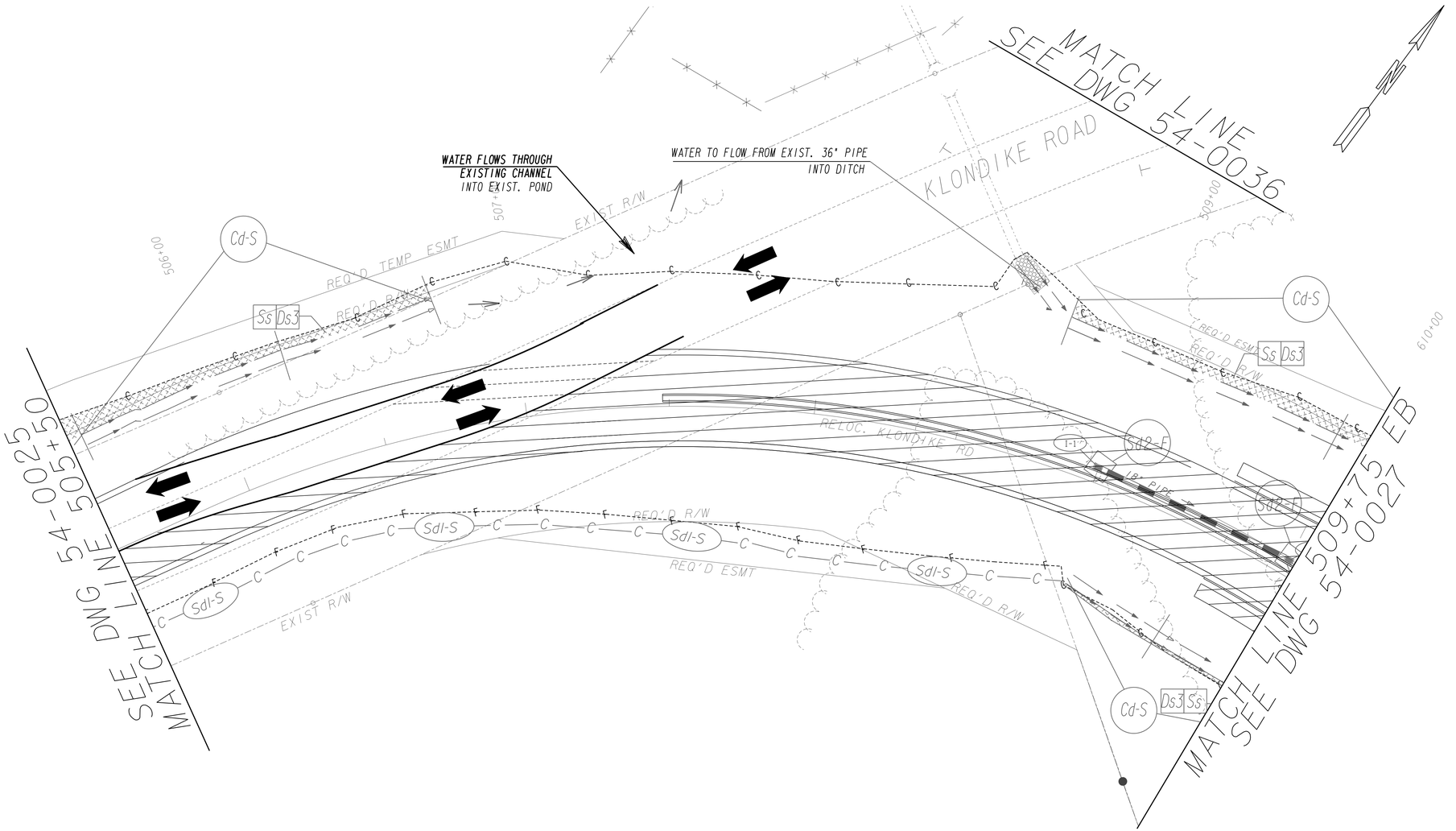

GEORGIA REGISTERED No. 15288 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdf-F Sdf-S	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-RS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-43- Ch-Bt		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0026

3/1/2007 GPLN

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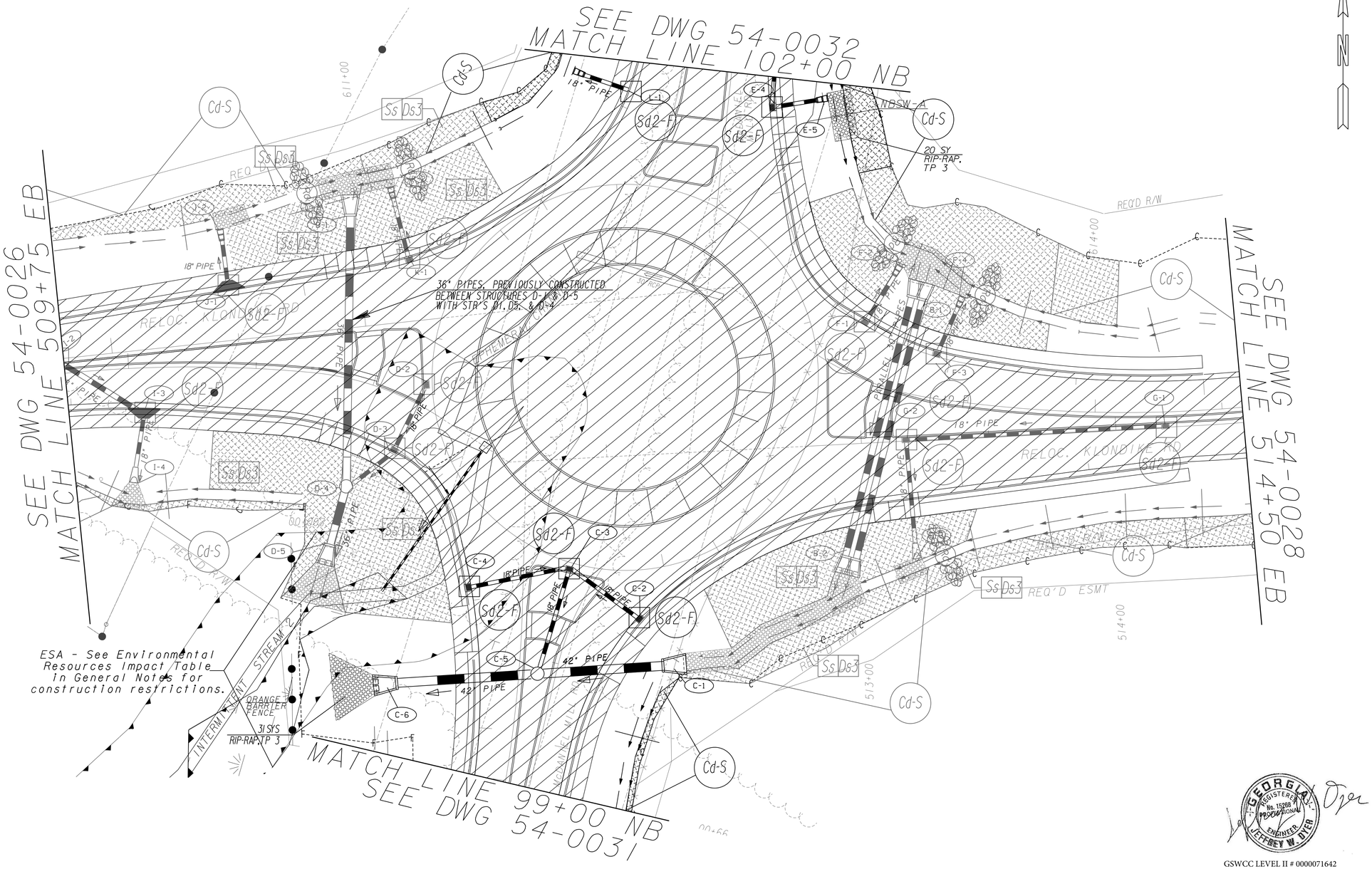

SEDIMENT TRAP	Sd2-F, Sd2-E	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-1	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sfl-BS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sfl-S
BITUMINOUS TREATED ROVING	-W2-, Ch-B2		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0027

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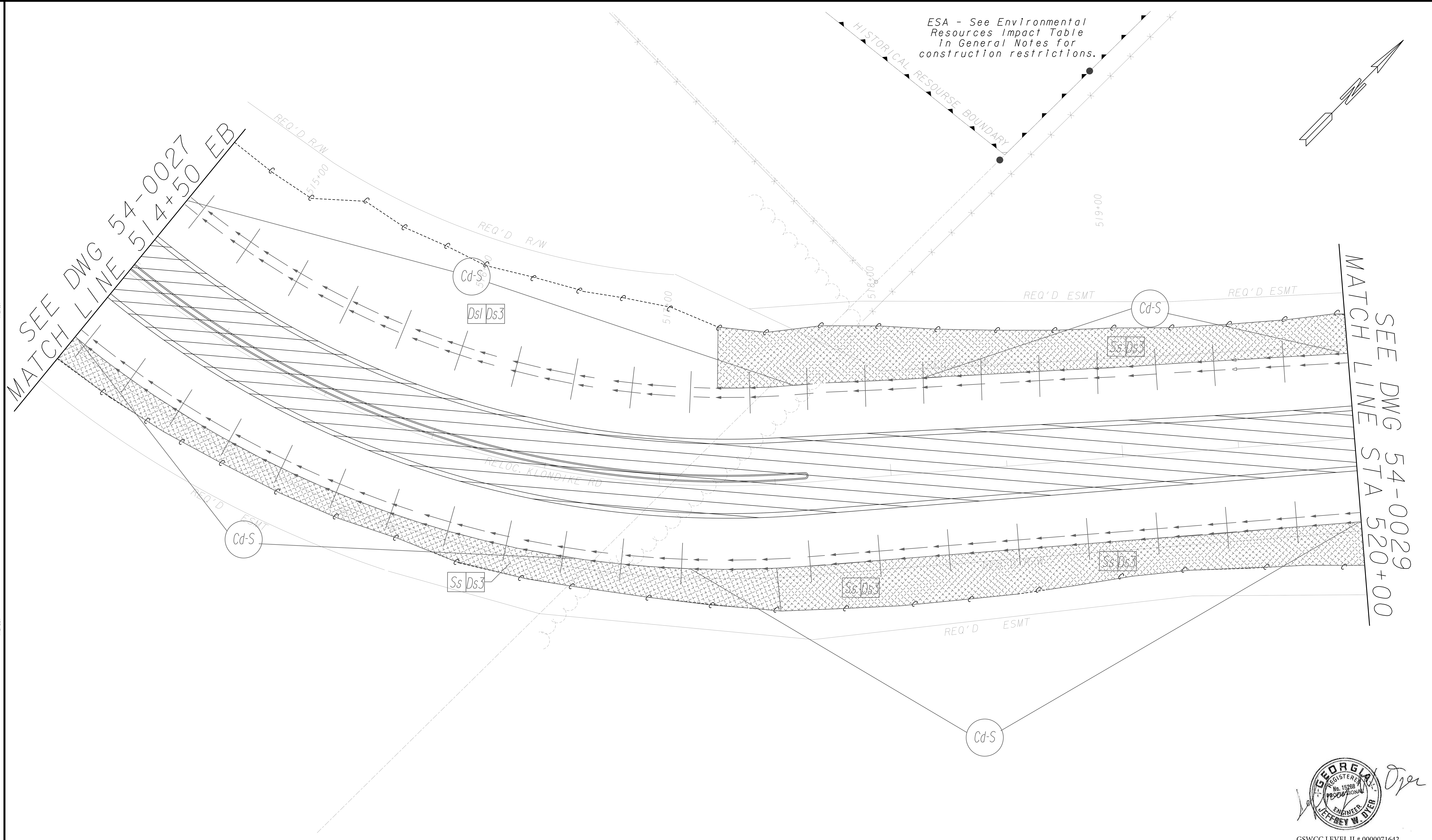

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-F, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
RIP RAP			
BITUMINOUS TREATED ROVING	Ch-Br		

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INTERMEDIATE PHASE - STAGE 2
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0028

3/1/2007 GPLN

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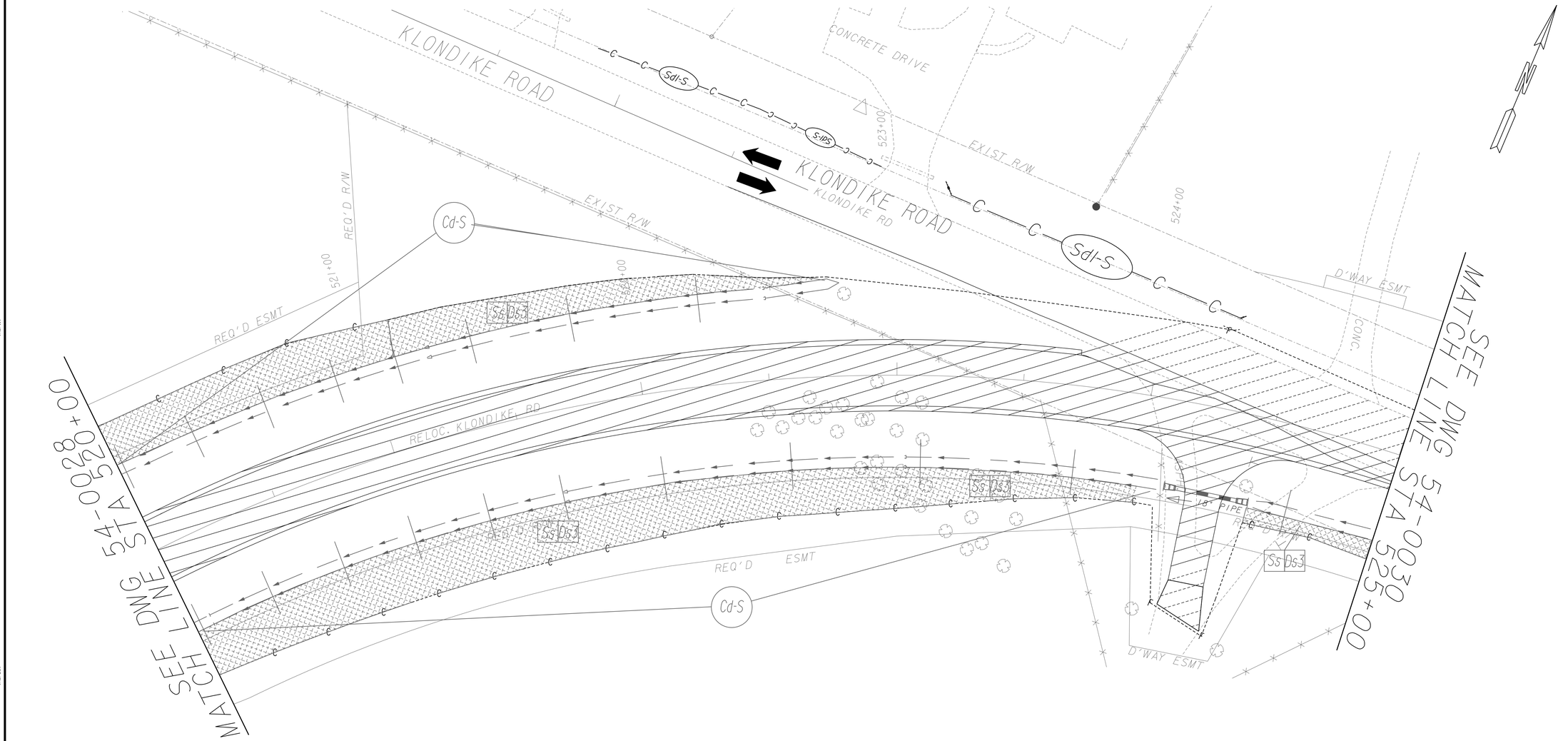

SEDIMENT TRAP	Sd-T Sd-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sfl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sfl-S
BITUMINOUS TREATED ROVING	-W- Ch-Bt		

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GSWCC LEVEL II # 0000071642

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

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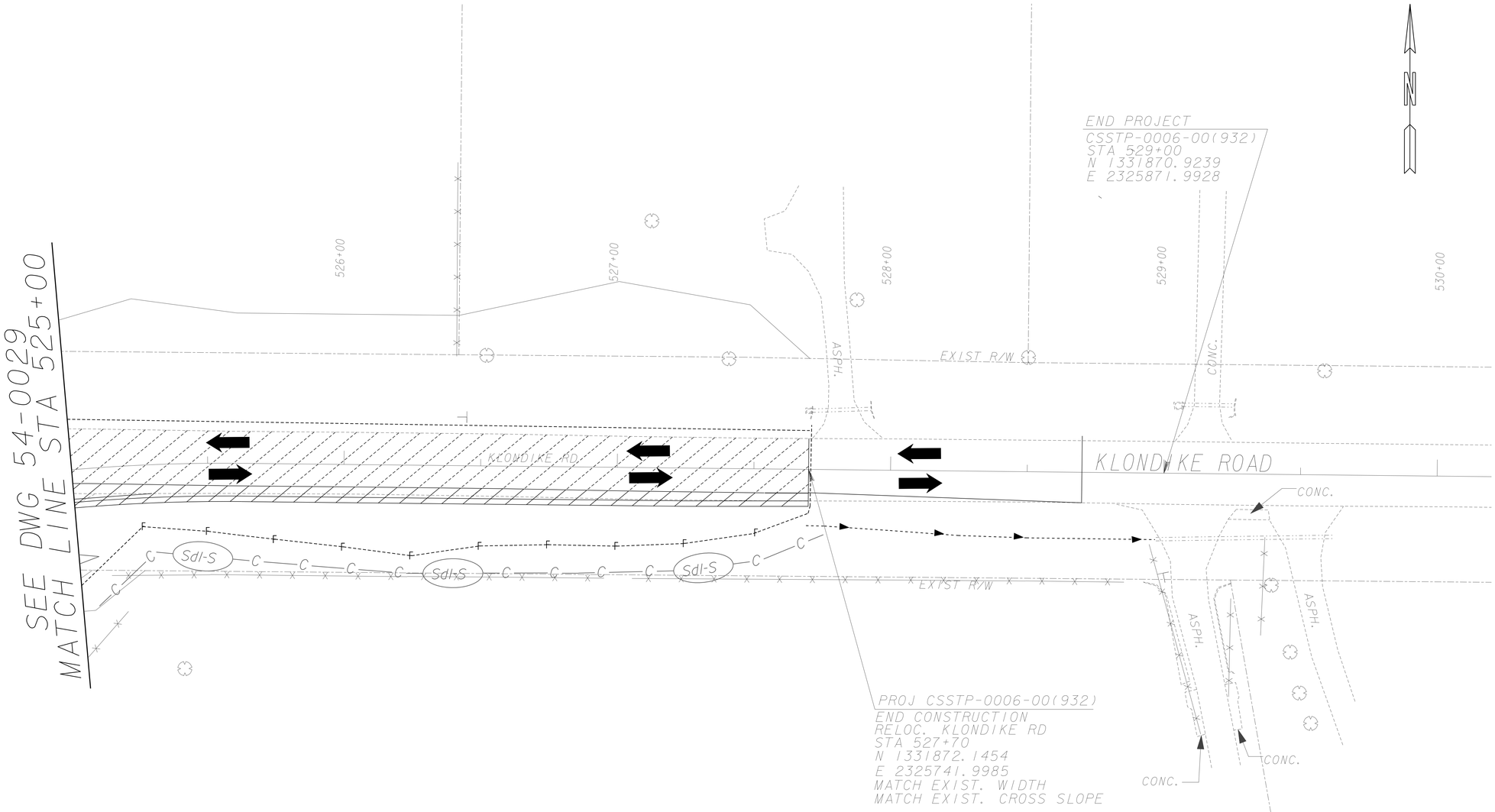

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SEDIMENT TRAP	Sd2-1 Sd2-8	FABRIC CHECK DAM	Fd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-Rv- Ch-Rv		

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INTERMEDIATE PHASE - STAGE 2
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
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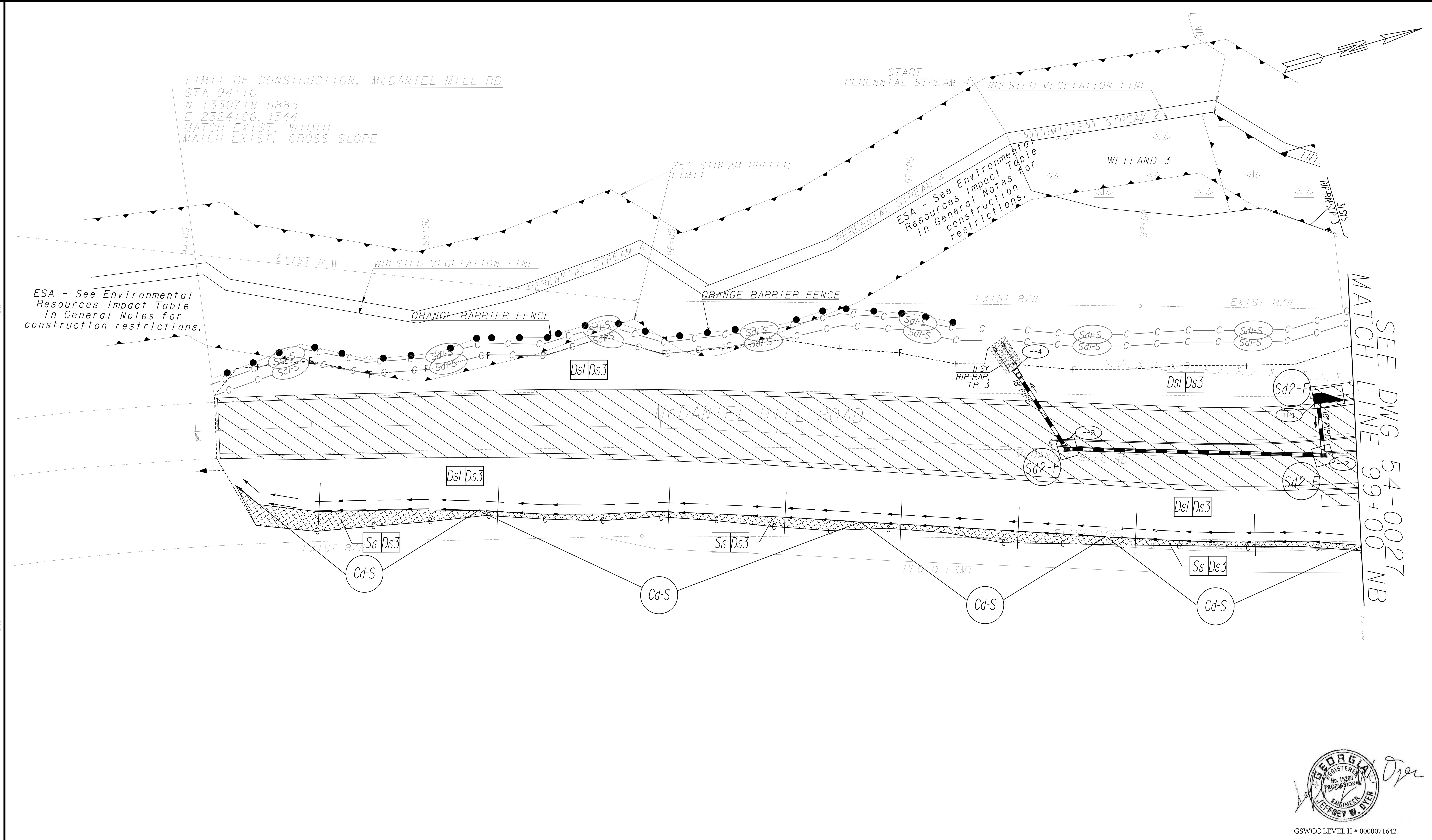

SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	Ch-Br		

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INTERMEDIATE PHASE - STAGE 2
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0031

3/1/2007 GPLN

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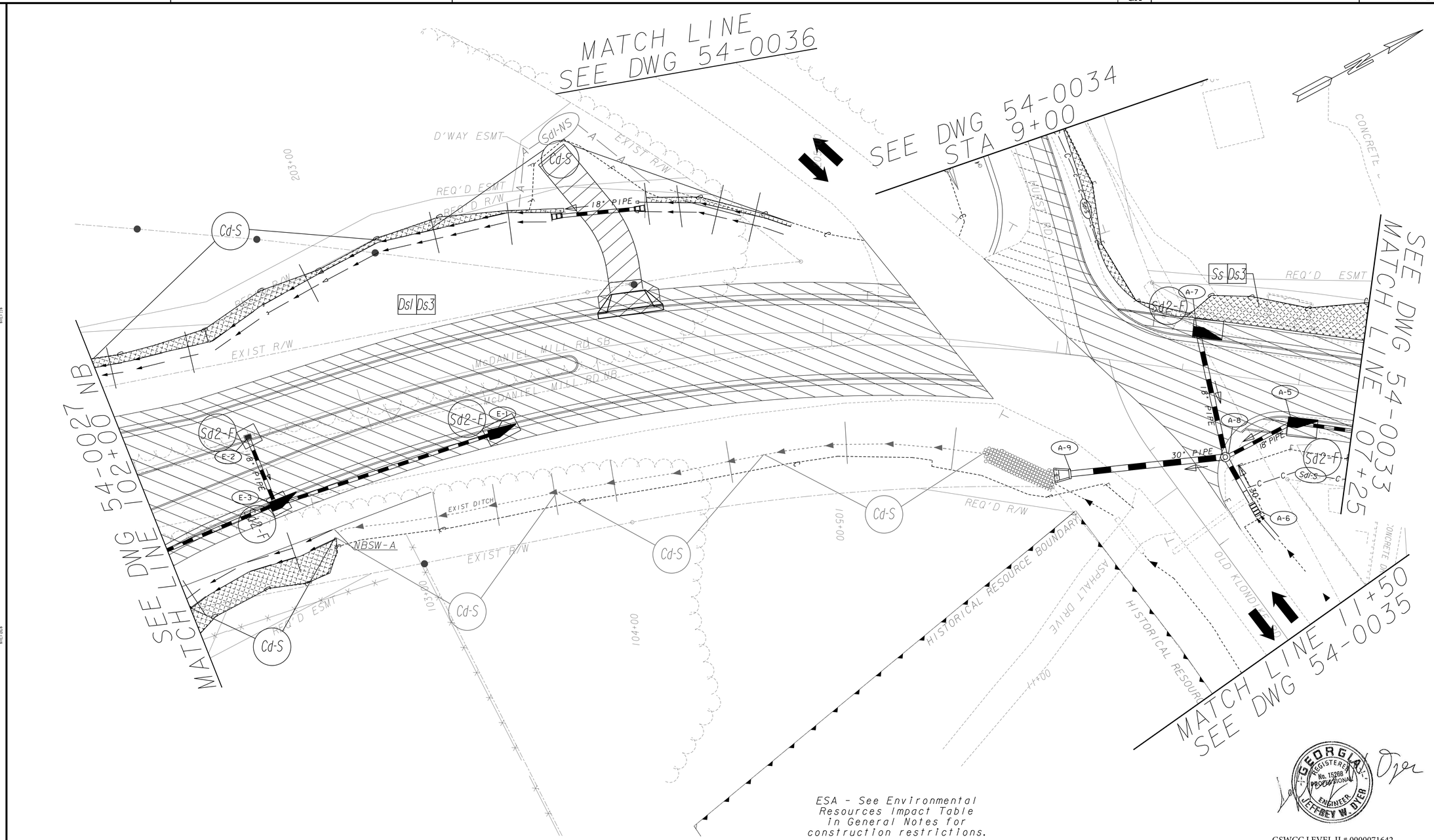

ESA - See Environmental Resources Impact Table in General Notes for construction restrictions.

GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Sd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sfl-BS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sfl-S
BITUMINOUS TREATED ROVING	-U2 Ch-B2		

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DEPARTMENT OF TRANSPORTATION

INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0032

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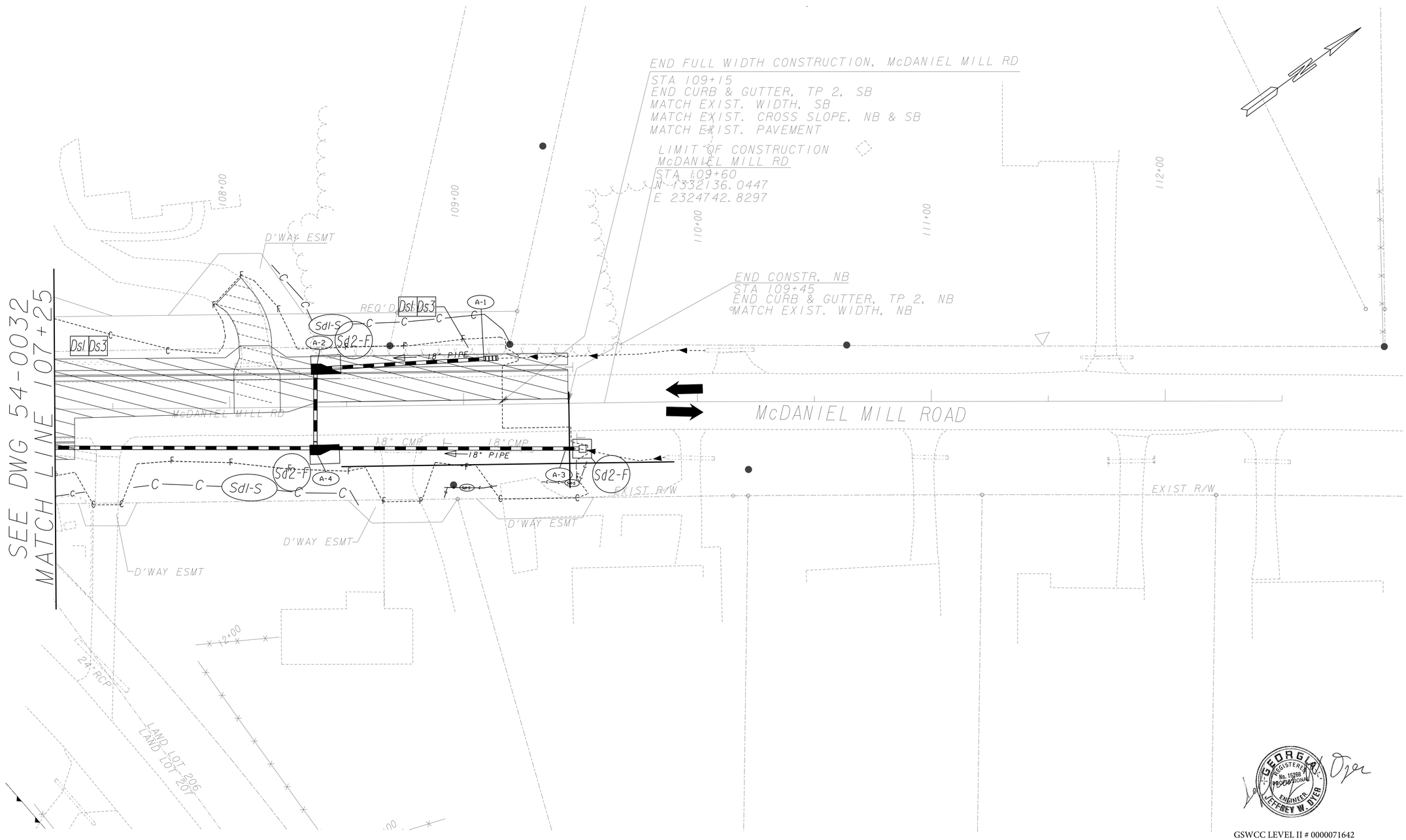

SEDIMENT TRAP	(Sd2-1) (Sd2-2)	FABRIC CHECK DAM	(Cd-F)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sdl-RS)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sdl-S)
BITUMINOUS TREATED ROVING	-43- (Ch-Br)		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

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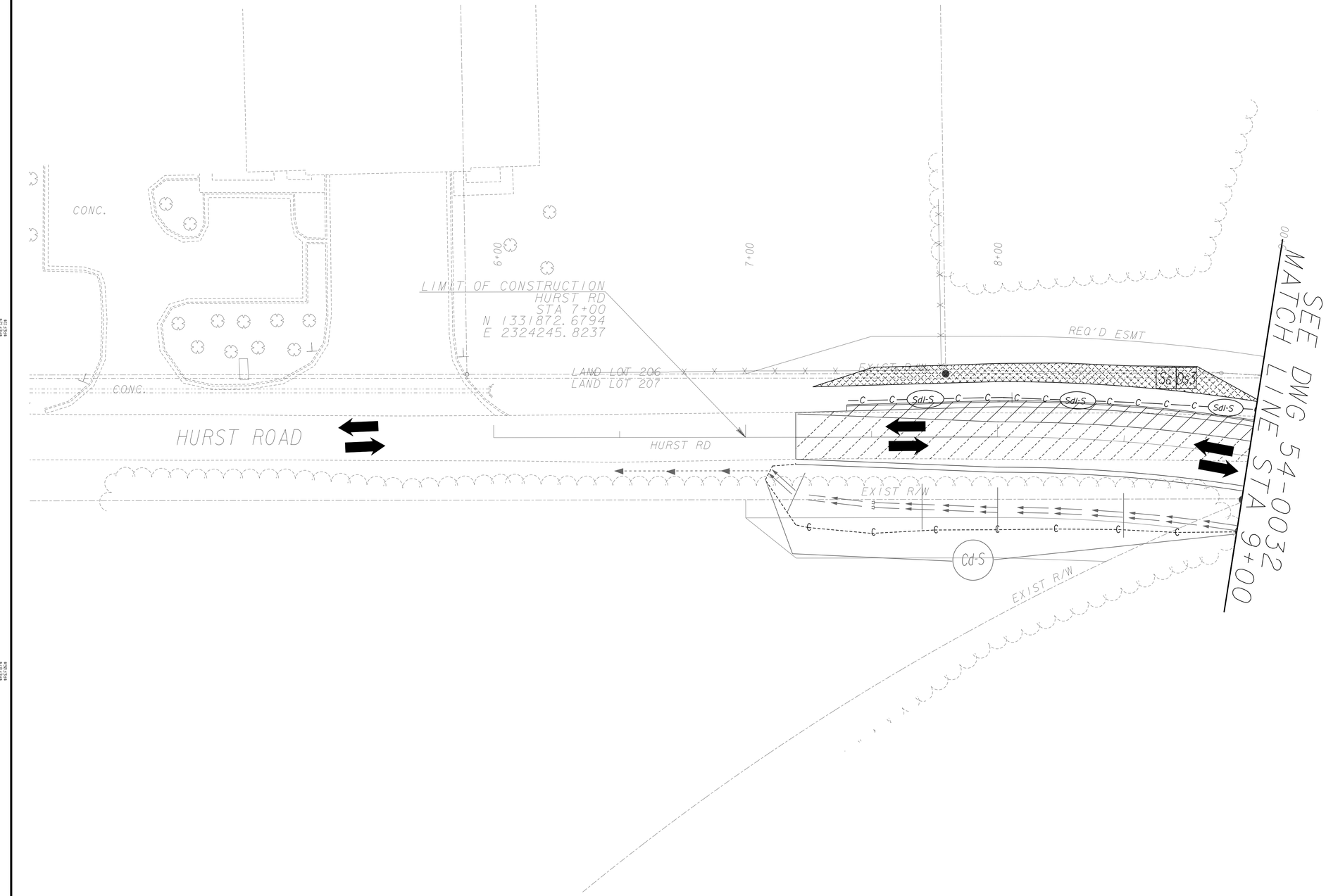

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GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdt-T Sdt-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sfl-WS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sfl-S
BITUMINOUS TREATED ROVING	-W2 Ch-Bt		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0034

3/1/2007 GPLN

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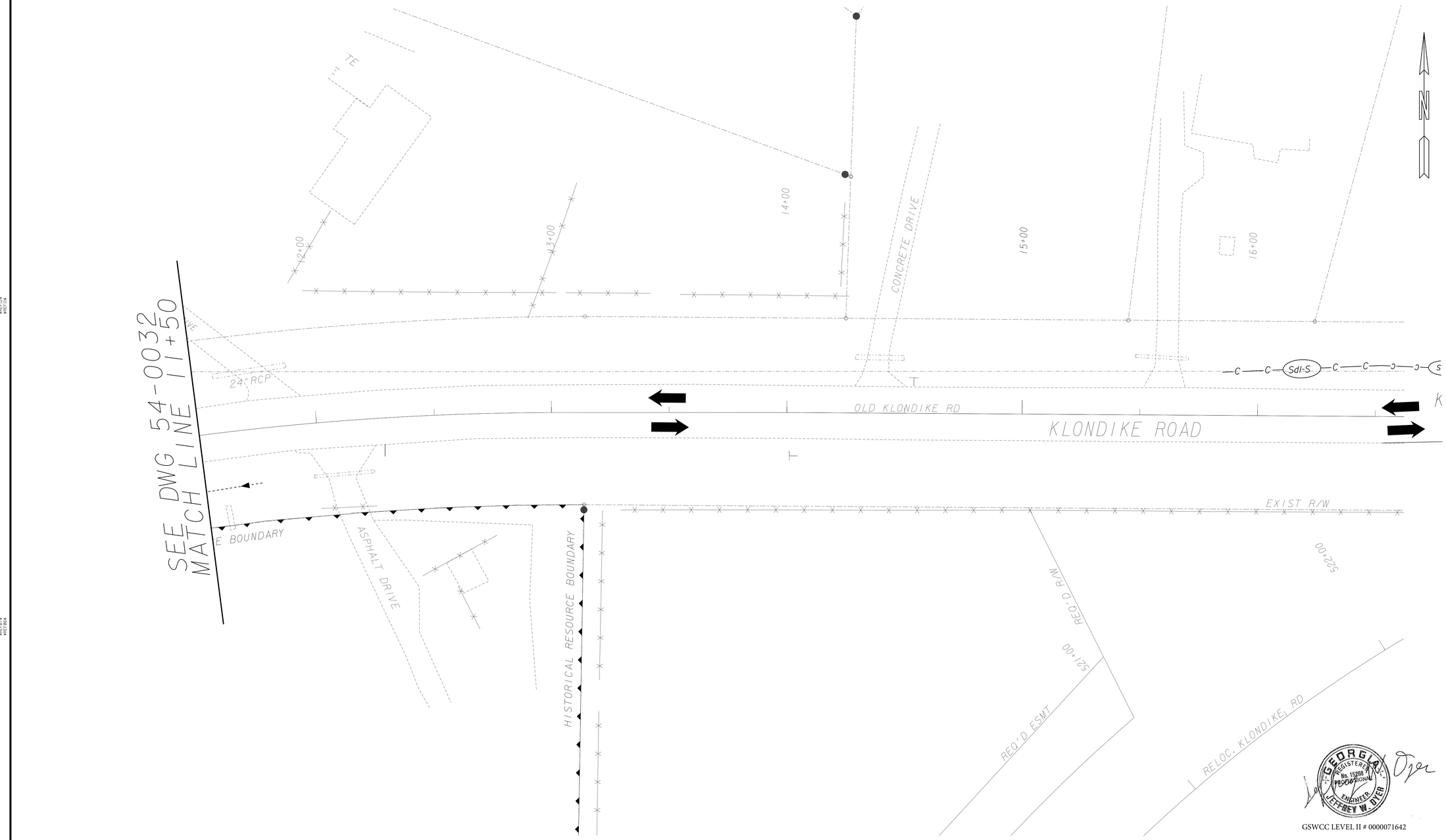

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Cd-1)
SILT CONTROL GATE	(Sg) (Sg-1)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-1A)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-1C)
BITUMINOUS TREATED ROVING	-43- (Ch-Bt)		

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GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

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ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INTERMEDIATE PHASE - STAGE 2
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0035

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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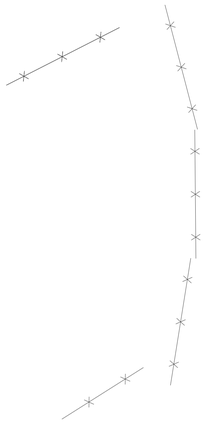

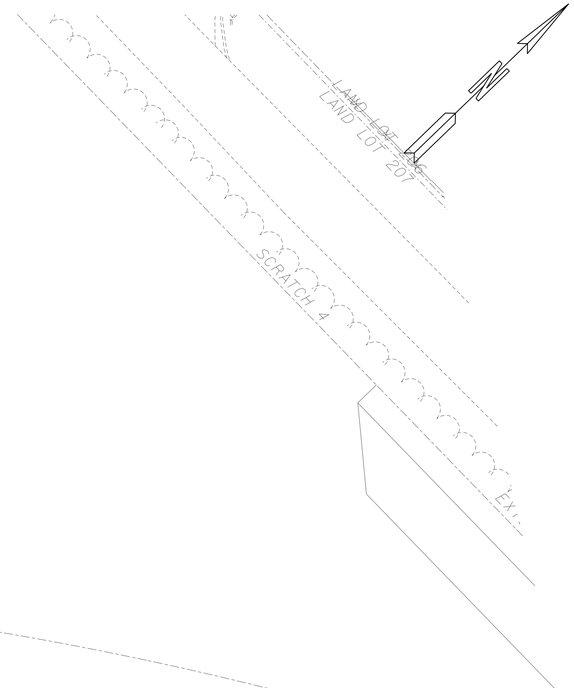

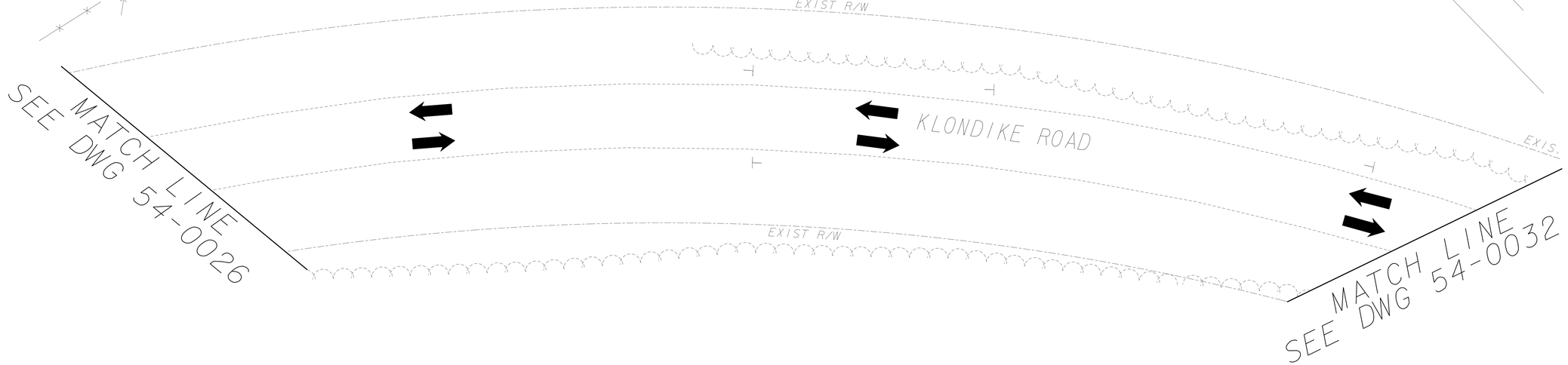

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GEORGIA REGISTERED No. 15288 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-T) (Sd-B)	FABRIC CHECK DAM	(Cd-T)
SILT CONTROL GATE	(Sg) (Sg-1)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-NS)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-S)
BITUMINOUS TREATED ROVING	(-W) (Ch-Br)		

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INTERMEDIATE PHASE - STAGE 2 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0036

3/1/2007 GPLN

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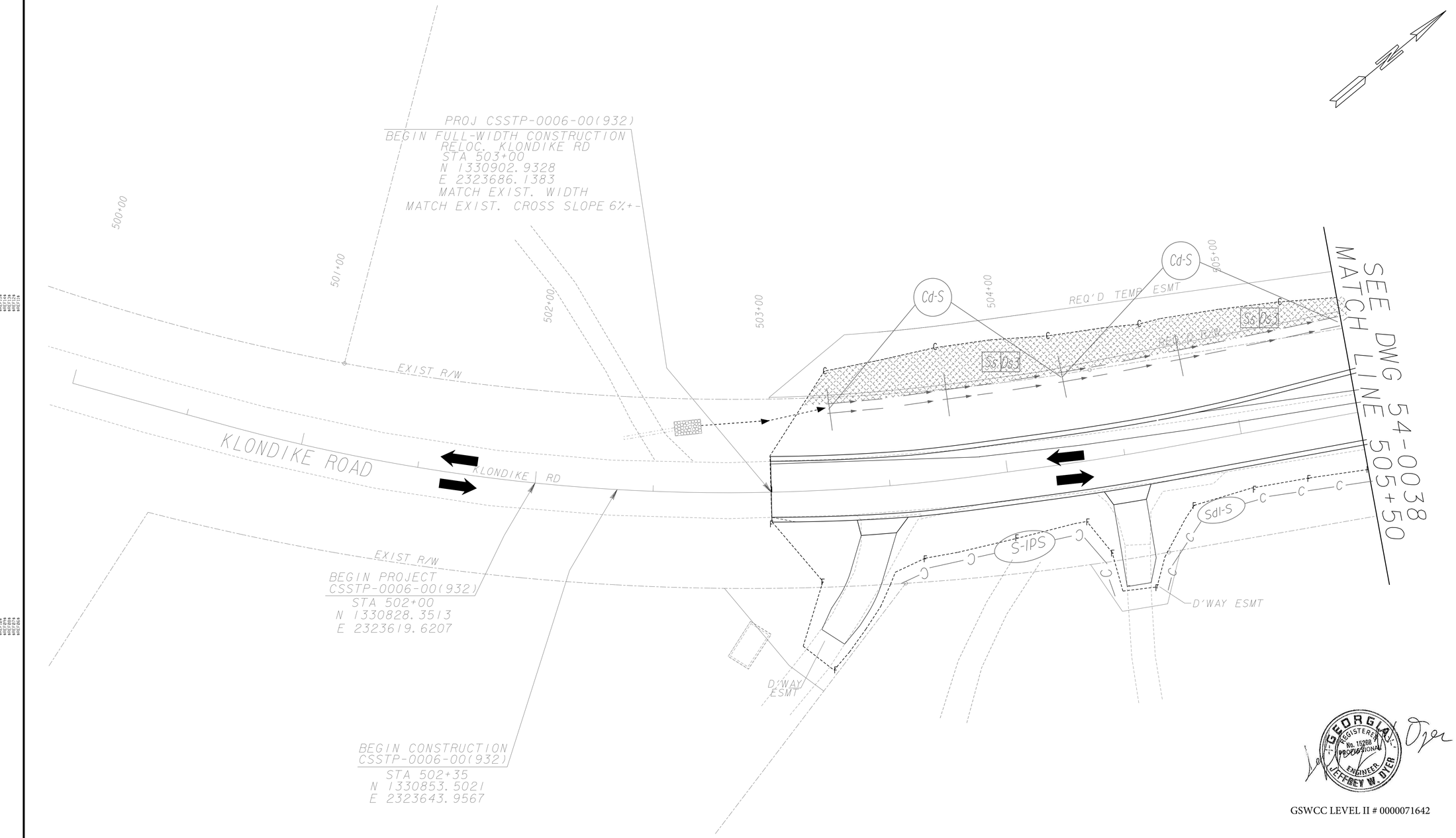

GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdt-T Sdt-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-WS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	~U2 Ch-B7		

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INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0037

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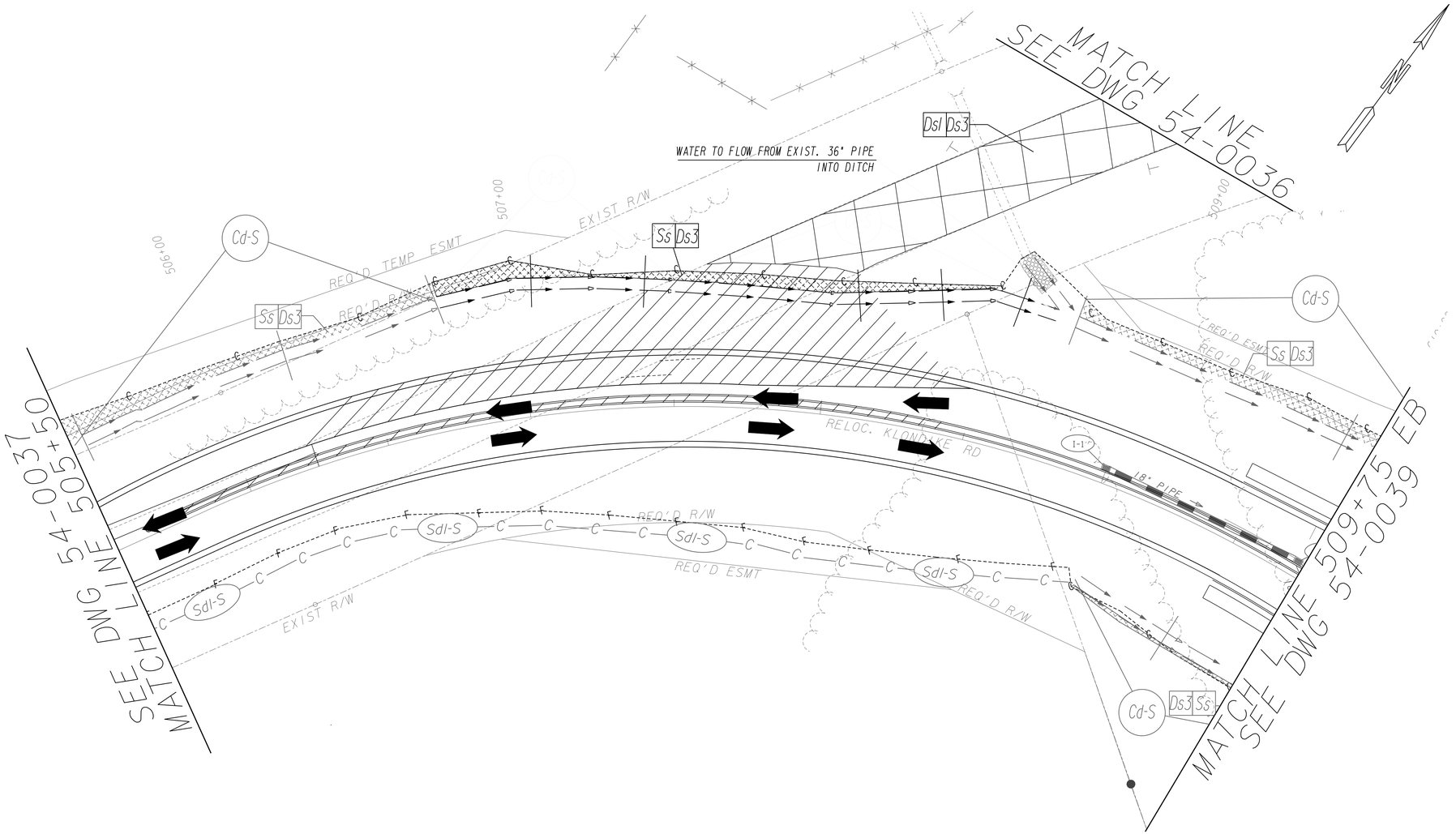

GSWCC LEVEL II 0000071642

SEDIMENT TRAP	Sdt-1 Sdt-8	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-RS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-43- Ch-Bt		

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INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

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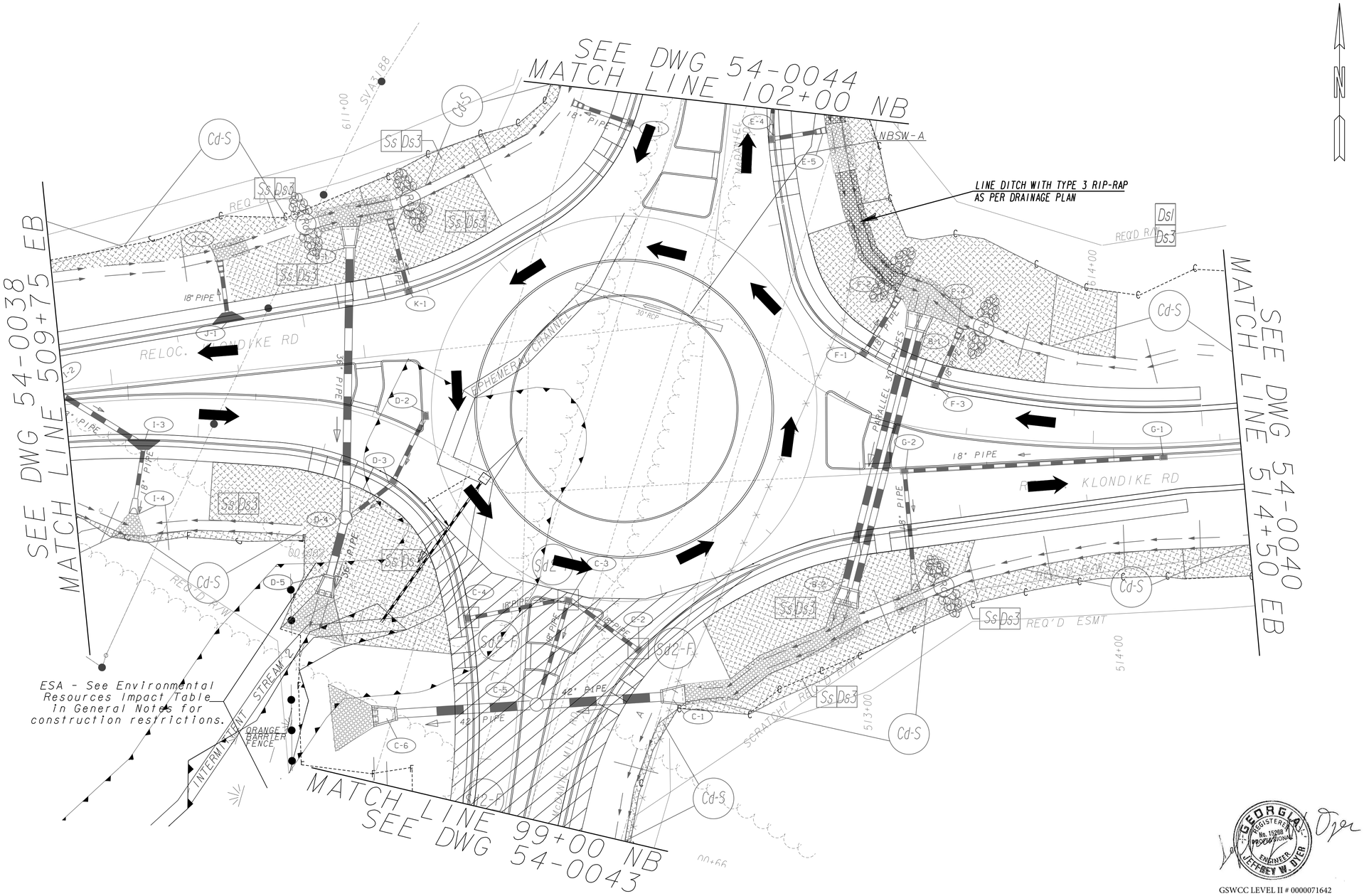

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SEDIMENT TRAP	Sd2-F Sd2-P	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf-S
BITUMINOUS TREATED ROVING	-W- Ch-Bt		

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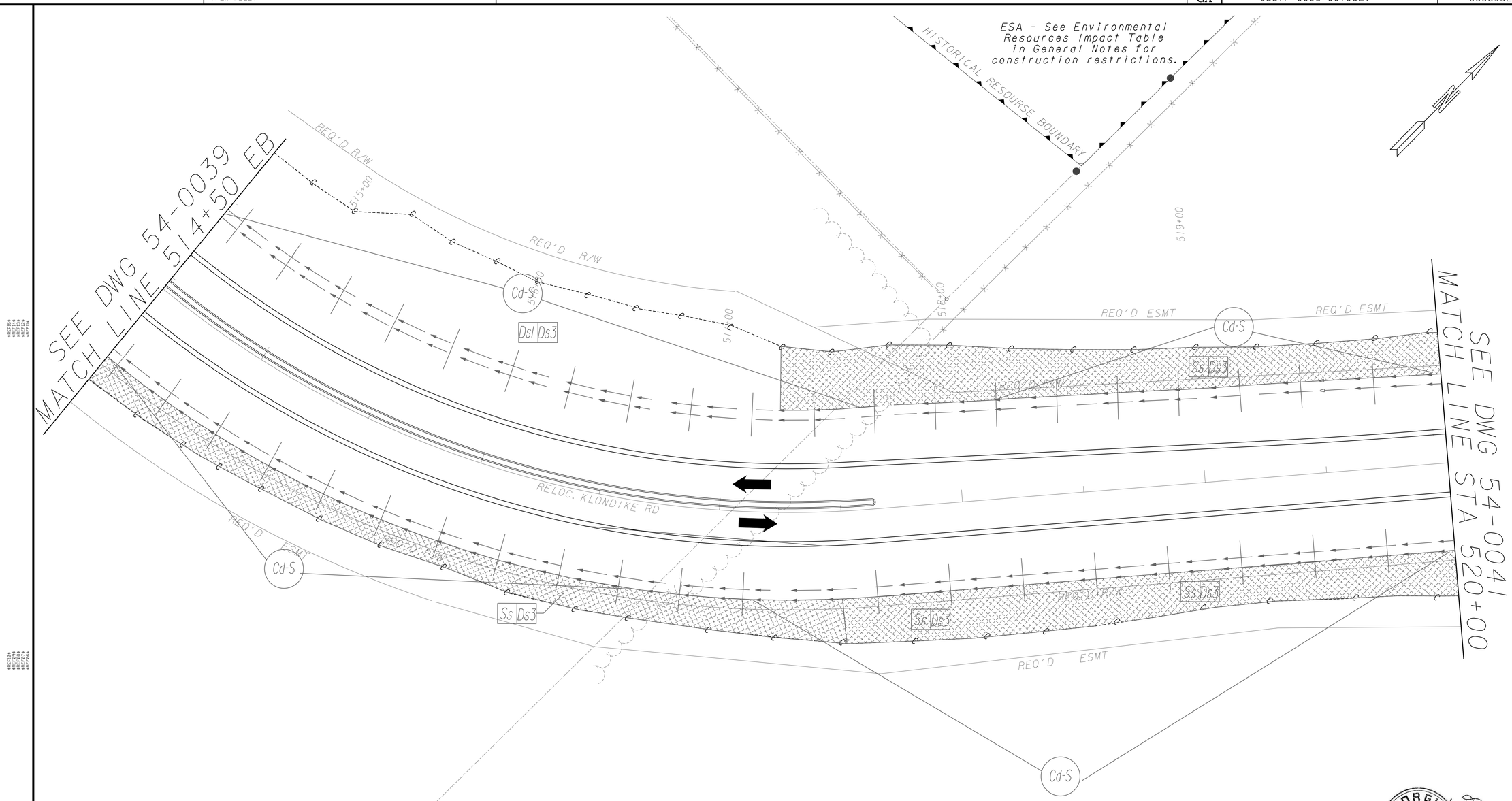
INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0039

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd-1 Sd-8	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-43- Ch-Bt		

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DEPARTMENT OF TRANSPORTATION

INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0040

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
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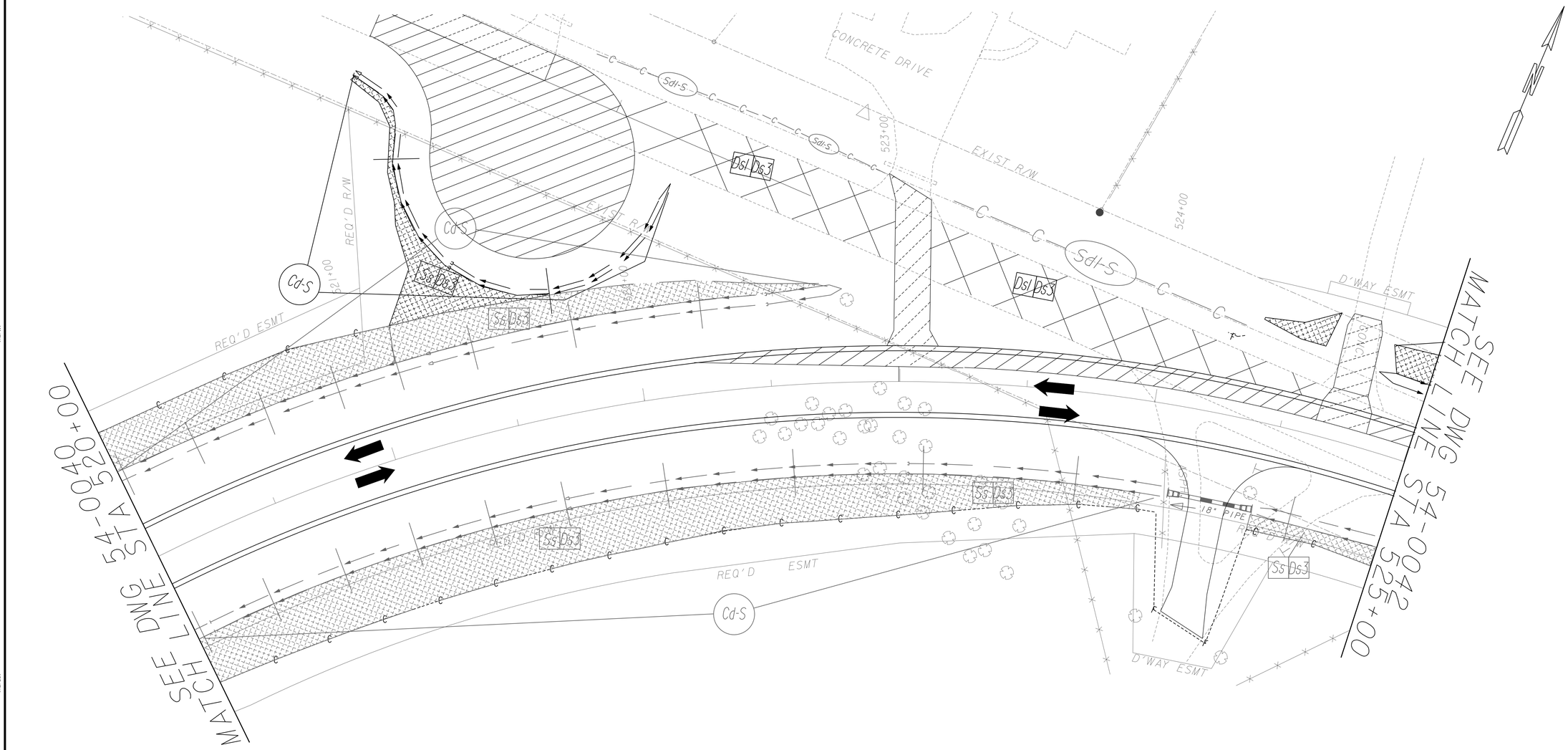

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdt-T Sdt-B	FABRIC CHECK DAM	Cd-T
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	-42- Ch-Bt		

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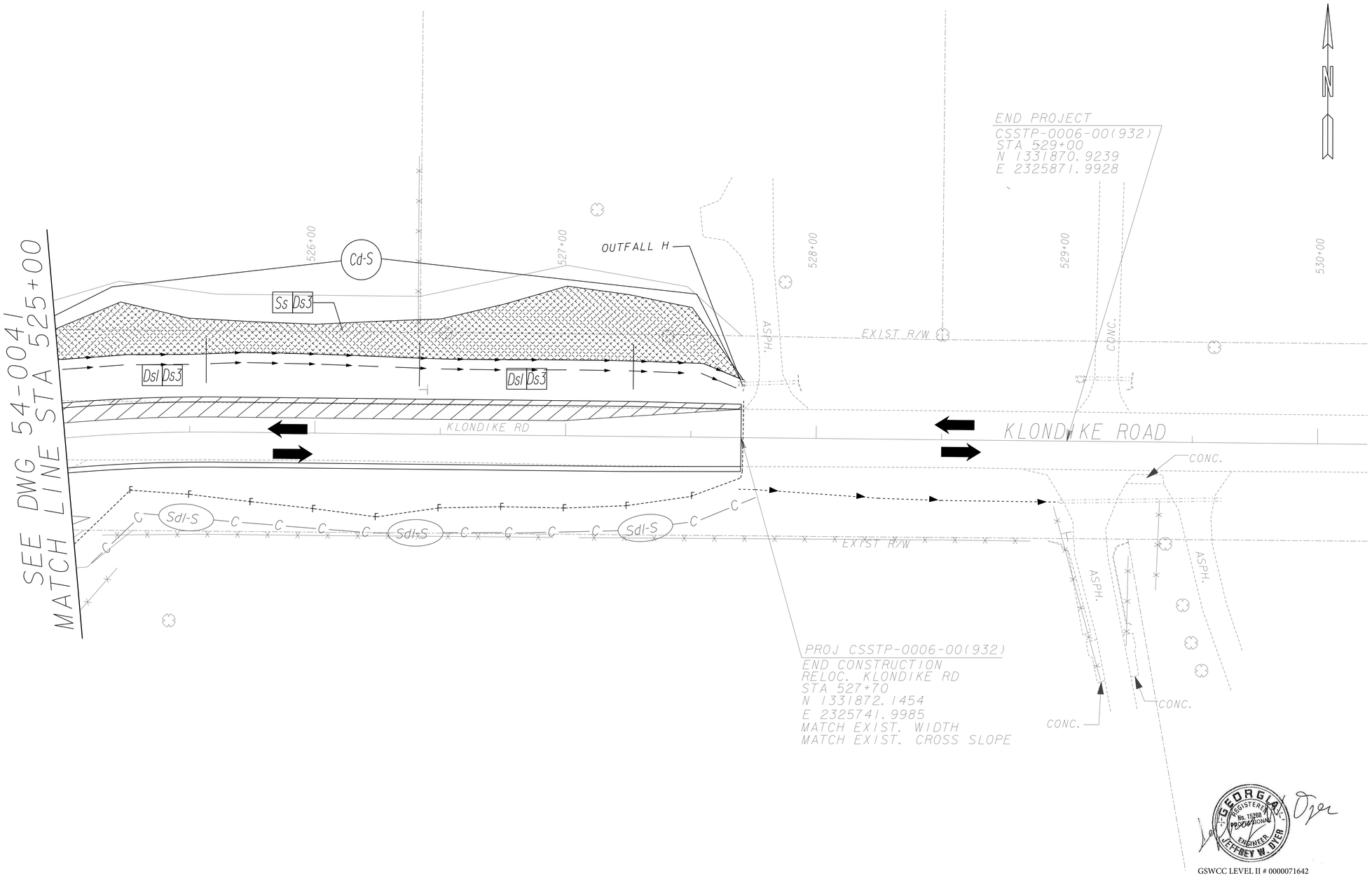
INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0041

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP (Sd2-T) (Sd2-B)
SILT CONTROL GATE (Sg) (Sg-3)
CHANNEL RIP RAP TYPE 3 (Ch-Rp3)
STORM DRAIN OUTLET PROTECTION (Sl-Rp)
RIP RAP
BITUMINOUS TREATED ROVING (-W2) (Ch-Bt)

FABRIC CHECK DAM (Cd-F)
CONSTRUCTION EXIT (Co)
SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE) (Sil-BS)
SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE) (Sil-S)

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GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

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DEPARTMENT OF TRANSPORTATION

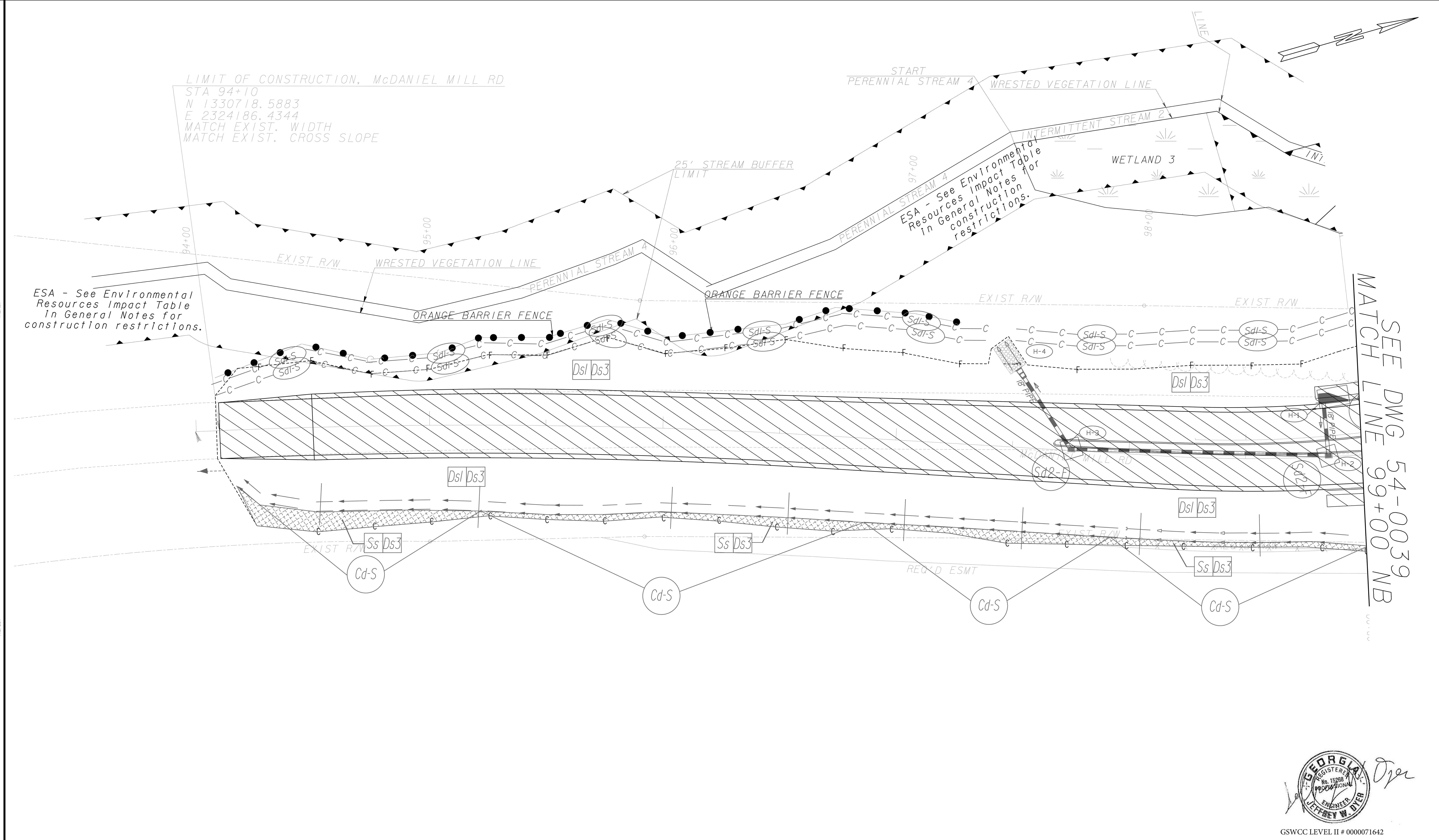
INTERMEDIATE PHASE - STAGE 3
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0042

3/1/2007 GPLN

STATE	PROJECT NUMBER	P.I. No.
GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	Sd2-F, Sd2-B
SILT CONTROL GATE	Sg, Sg-3
CHANNEL RIP RAP TYPE 3	Ch-Rp3
STORM DRAIN OUTLET PROTECTION	St-Rp
RIP RAP	
BITUMINOUS TREATED ROVING	Ch-Bt
FABRIC CHECK DAM	Cd-F
CONSTRUCTION EXIT	Co
SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-NS
SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S

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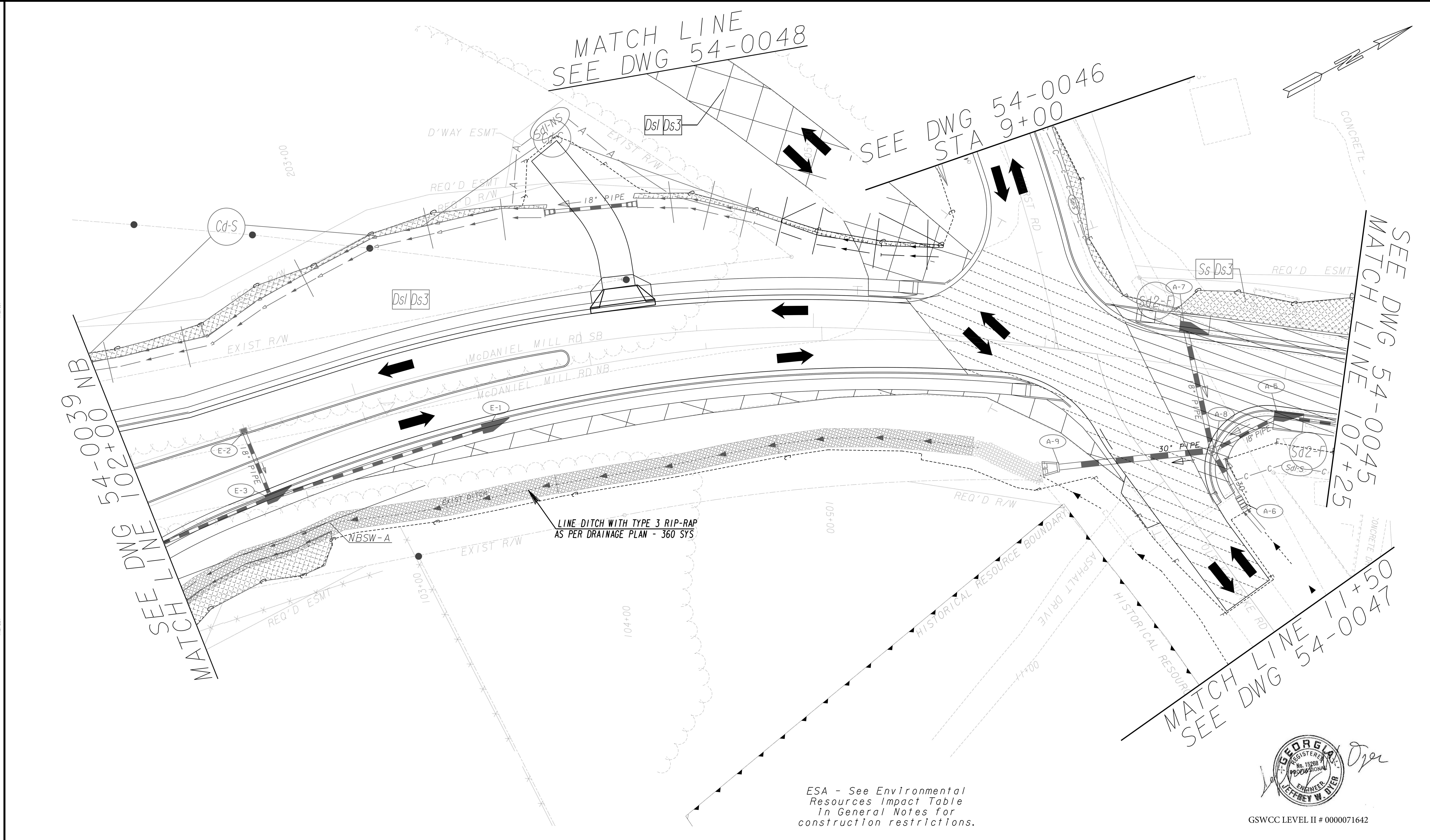
INTERMEDIATE PHASE - STAGE 3
BMP LOCATION DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0043

3/1/2007 GPLN

STATE	PROJECT NUMBER	PI. No.
GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	Sd2-F, Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdl-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdl-S
BITUMINOUS TREATED ROVING	Ch-Br		

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INTERMEIDATE PHASE - STAGE 3
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0044

3/1/2007 GPLN

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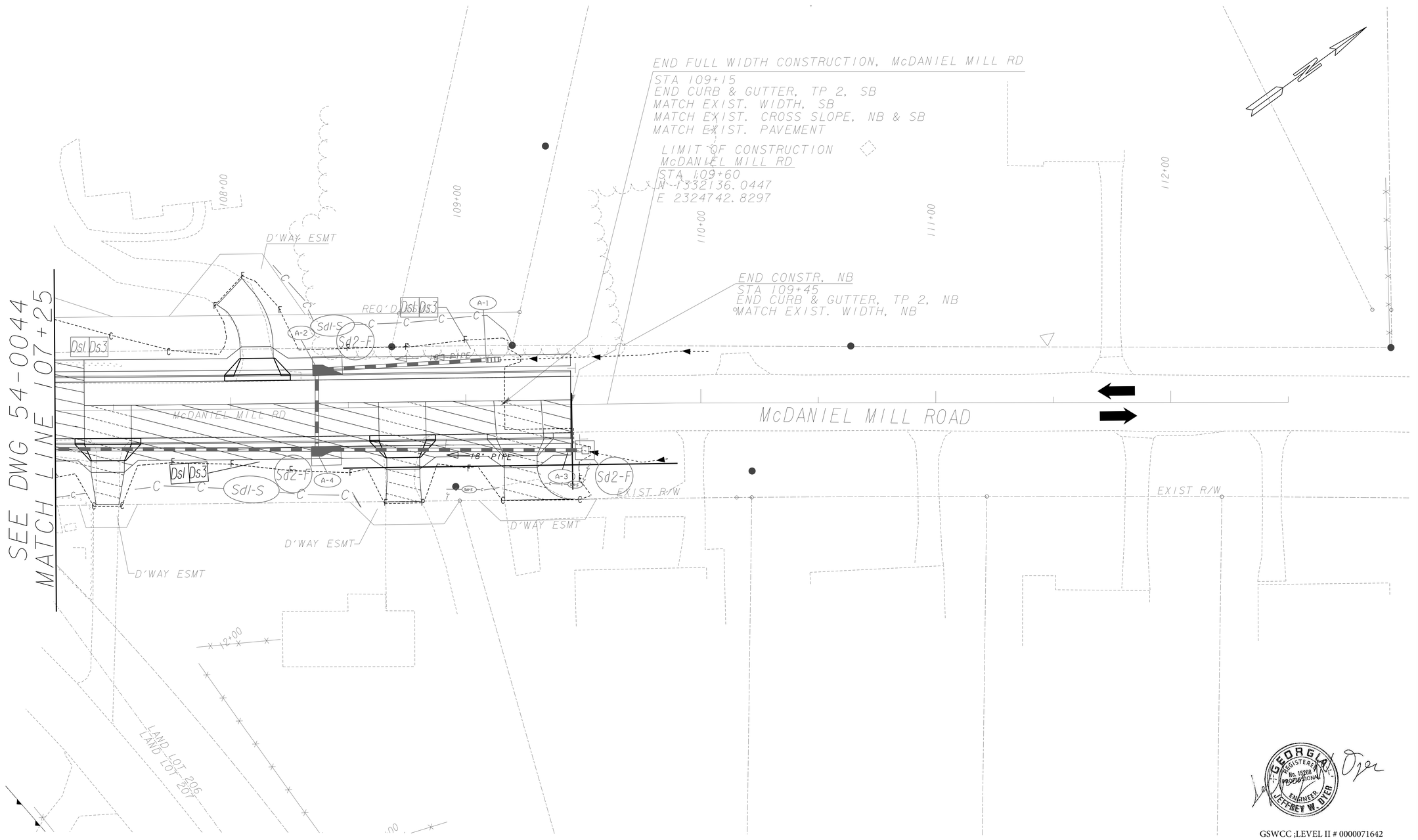
STATE	PROJECT NUMBER	PI. No.
GA	CSSTP-0006-00(932)	0006932



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SEDIMENT TRAP	Sd2-F Sd2-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-43- Ch-Bt		

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INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0045

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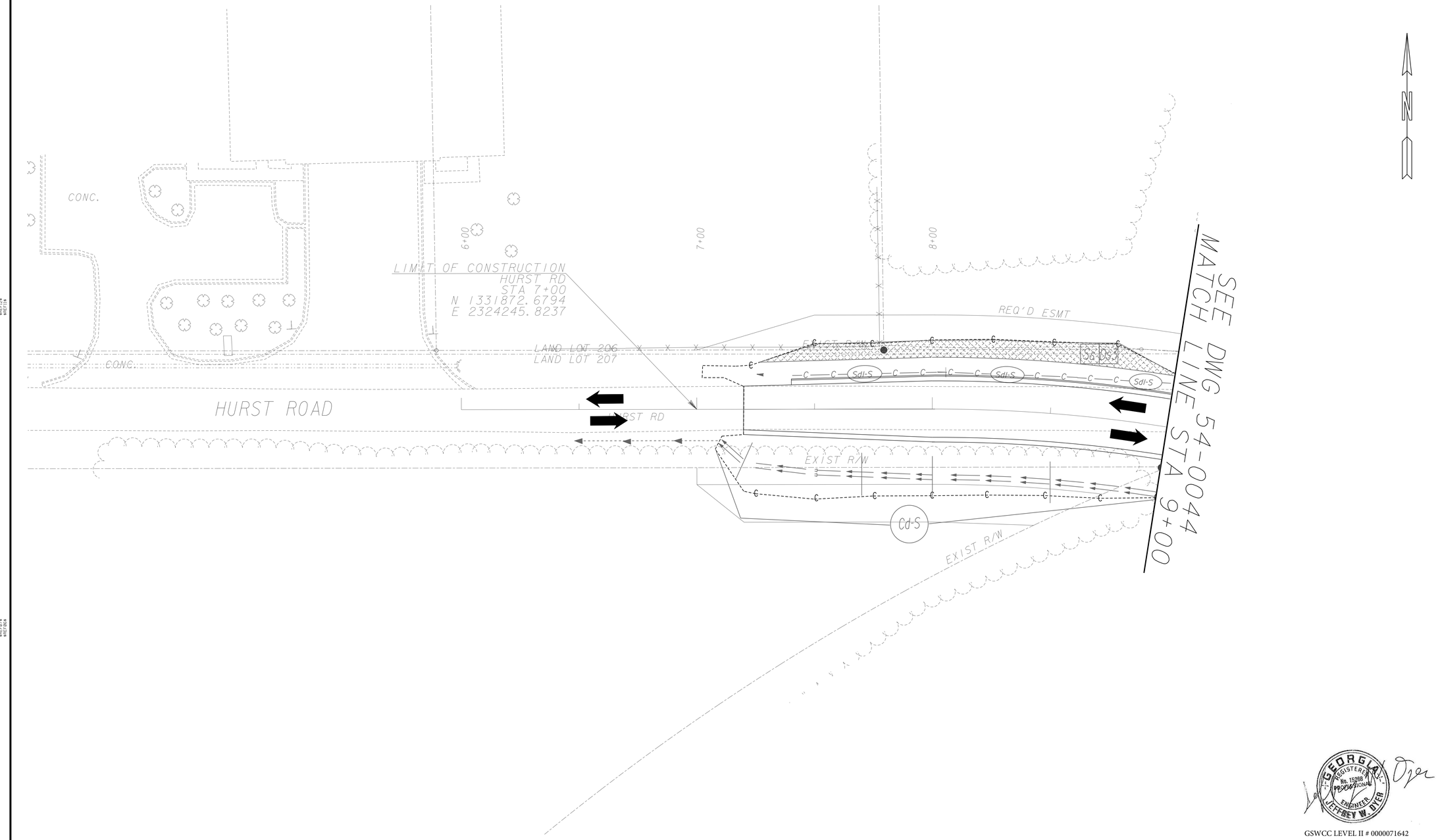

SEDIMENT TRAP	Sd-T Sd-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-W3- Ch-Bt		

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GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

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DEPARTMENT OF TRANSPORTATION

INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0046

3/1/2007 GPLN

DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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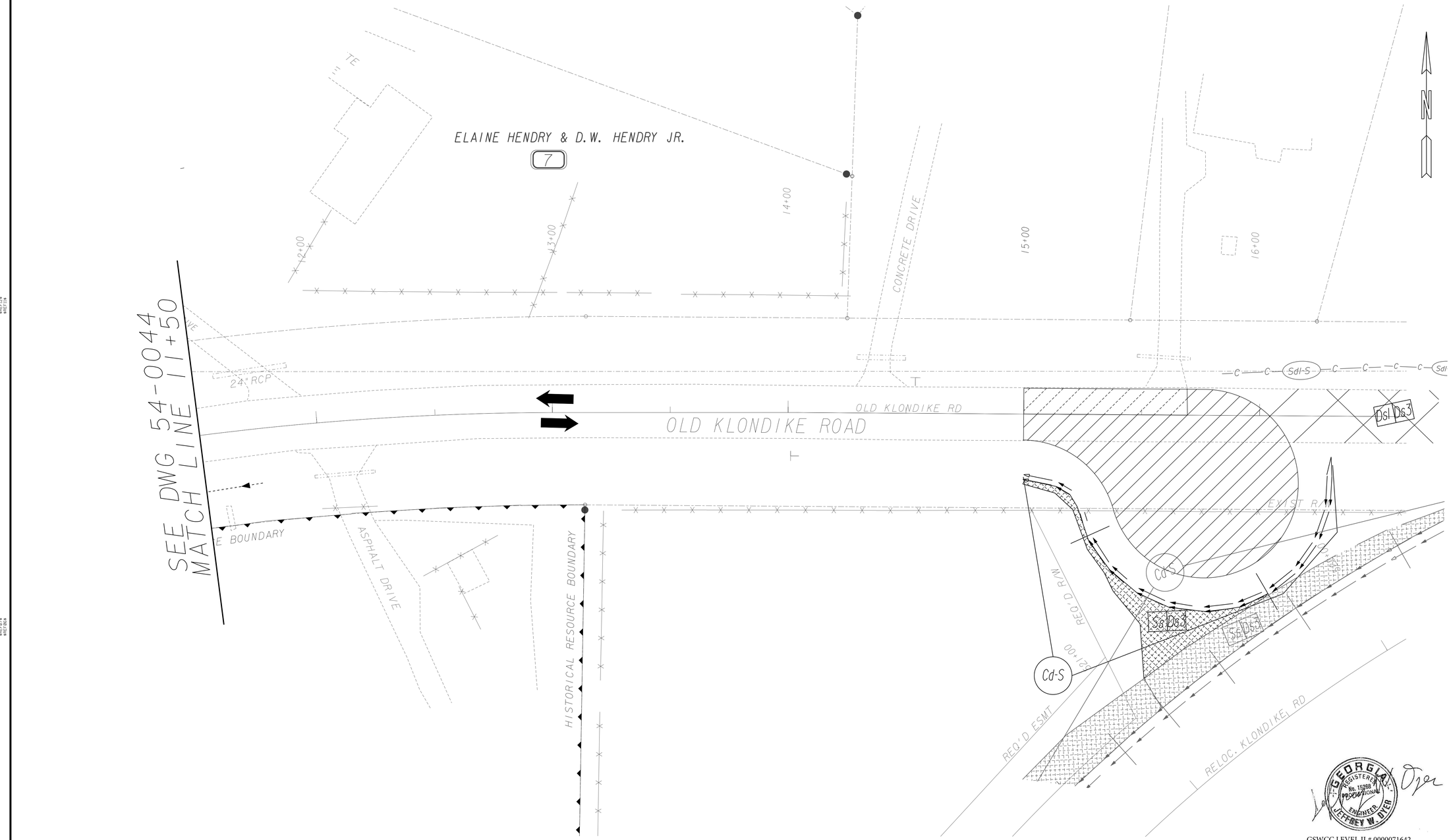

SEDIMENT TRAP	Sd2-T, Sd2-B	FABRIC CHECK DAM	Cd-T
SILT CONTROL GATE	Sg, Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	-W3-, Ch-Bt		

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GSWCC LEVEL II # 0000071642

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ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INTERMEDIATE PHASE - STAGE 3
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0047

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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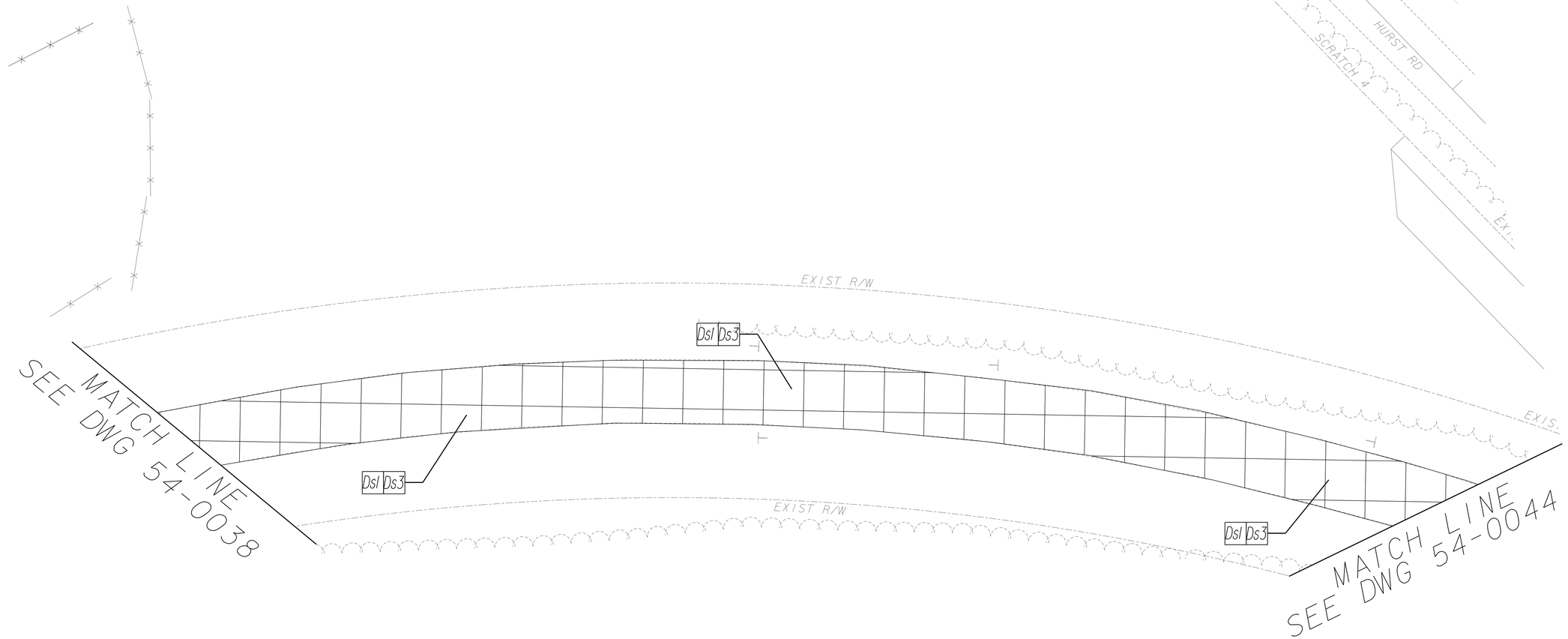

GSWCCC LEVEL II # 0000071642

SEDIMENT TRAP	Sed-T Sed-B	FABRIC CHECK DAM	Cd-F
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Ce
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdi-BS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdi-S
RIP RAP			
BITUMINOUS TREATED ROVING	-42- Ch-Br		

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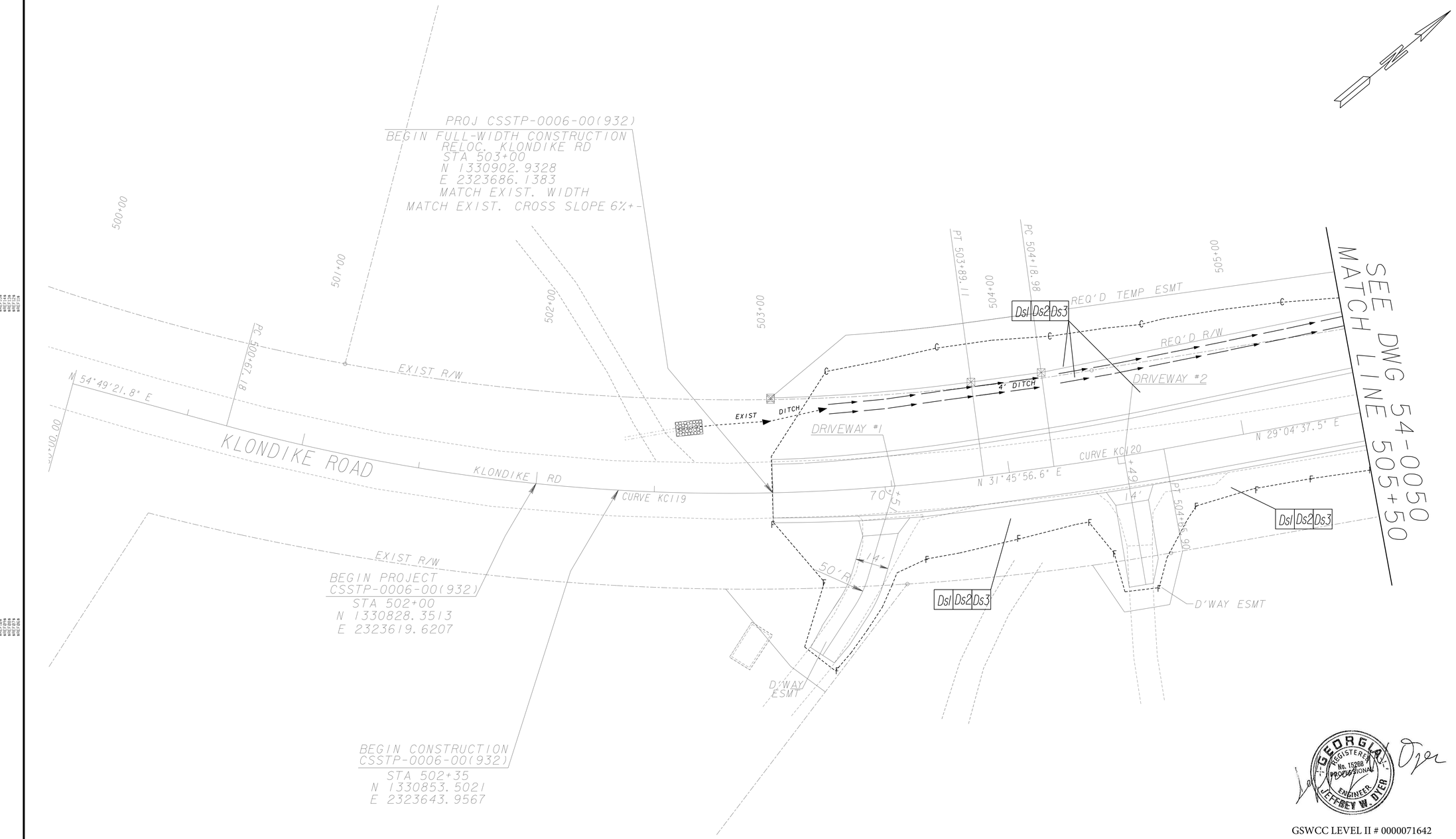
INTERMEDIATE PHASE - STAGE 3 BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0048

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sdt-1 Sdt-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sdi-RS
STORM DRAIN OUTLET PROTECTION	Sl-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sdi-S
BITUMINOUS TREATED ROVING	-W- Ch-Bt		

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ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 54-0049

3/1/2007 GPLN

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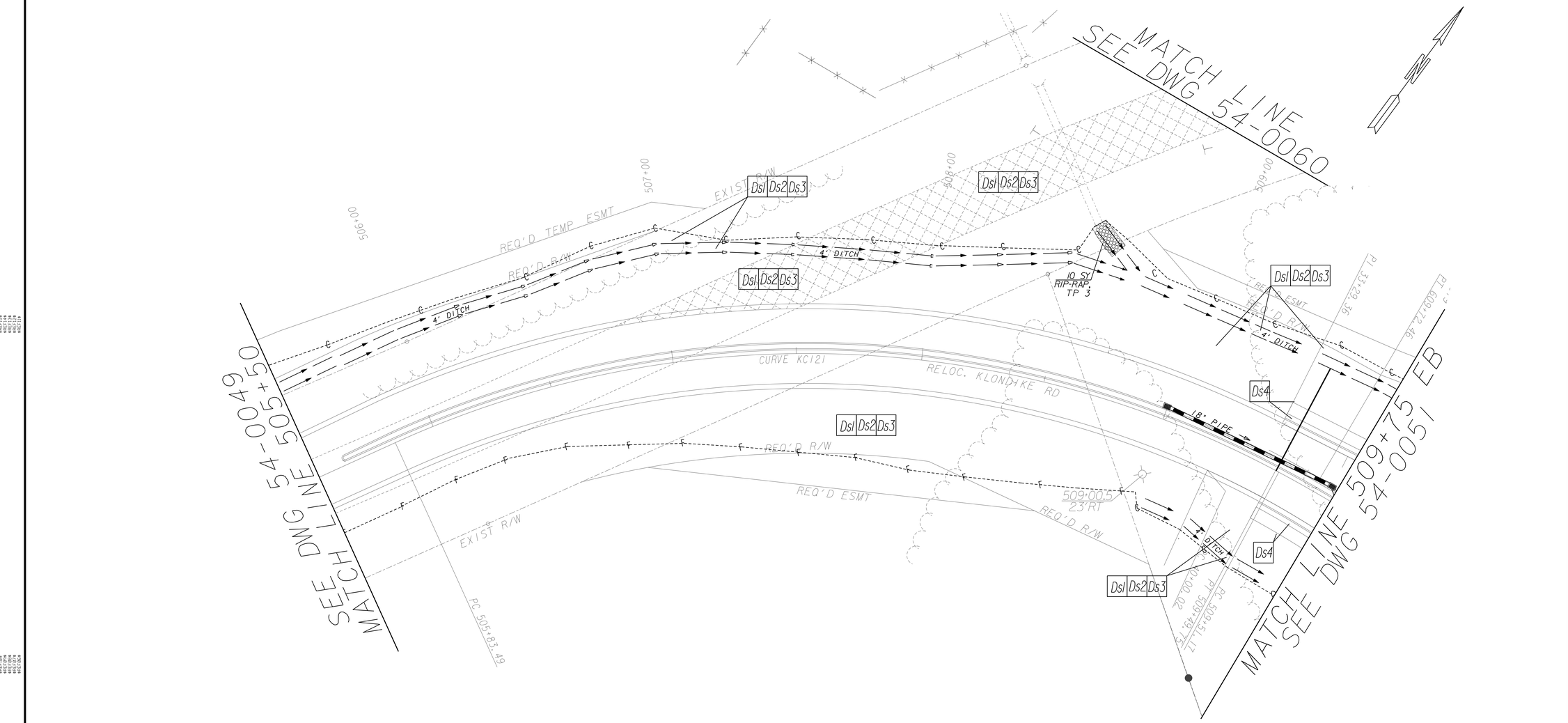
STATE	PROJECT NUMBER	PI. No.
GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-8)	FABRIC CHECK DAM	(Sd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-B)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-S)
BITUMINOUS TREATED ROVING	(-R) (Ch-Br)		

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FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0050

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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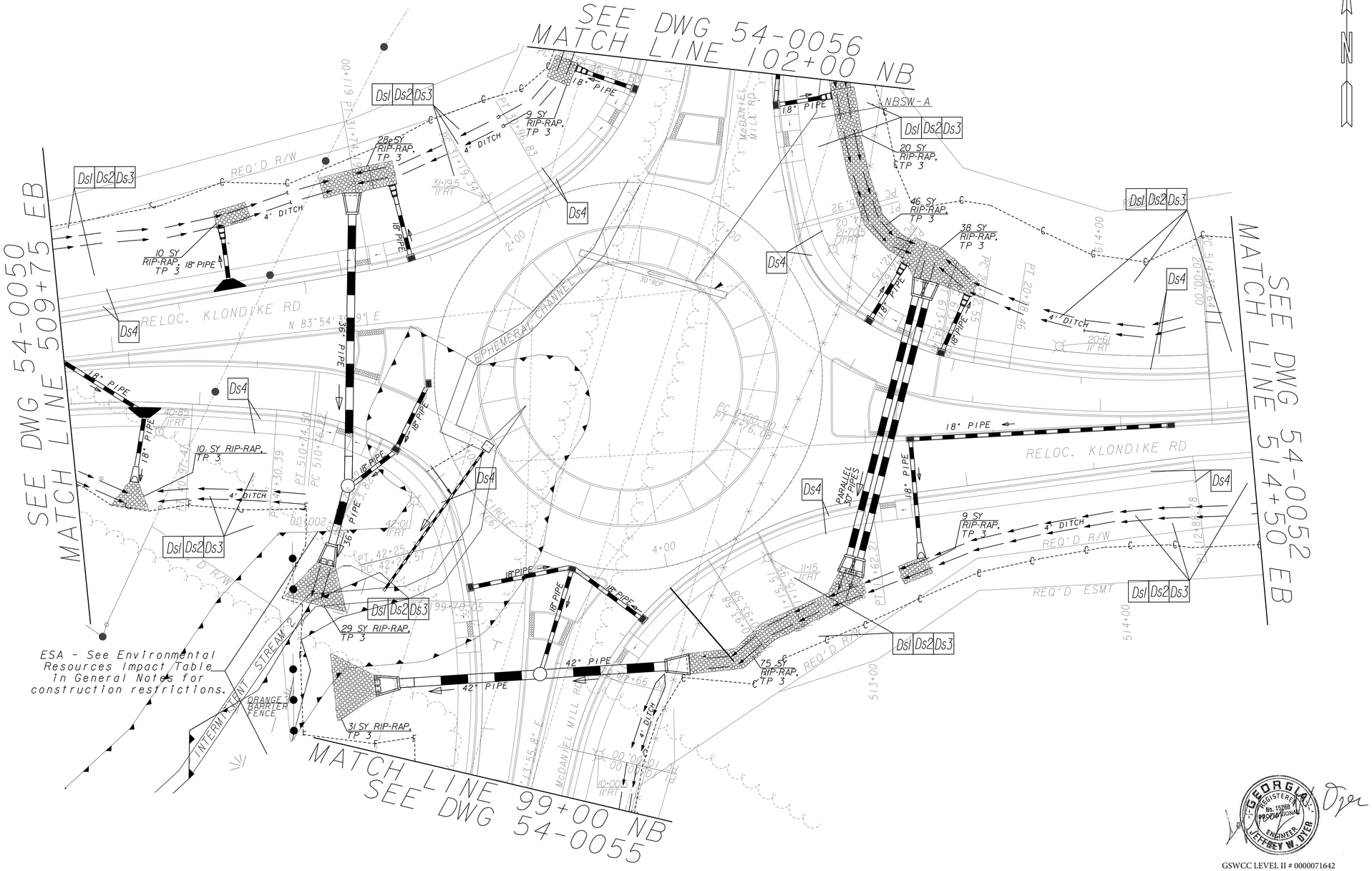

ESA - See Environmental Resources Impact Table in General Notes for construction restrictions.

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Sd-1)
SILT CONTROL GATE	(Sg) (Sg-1)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-1A)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-1C)
BITUMINOUS TREATED ROVING	-43- (Ch-Bt)		

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FINAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0051

3/11/2007 GPLN

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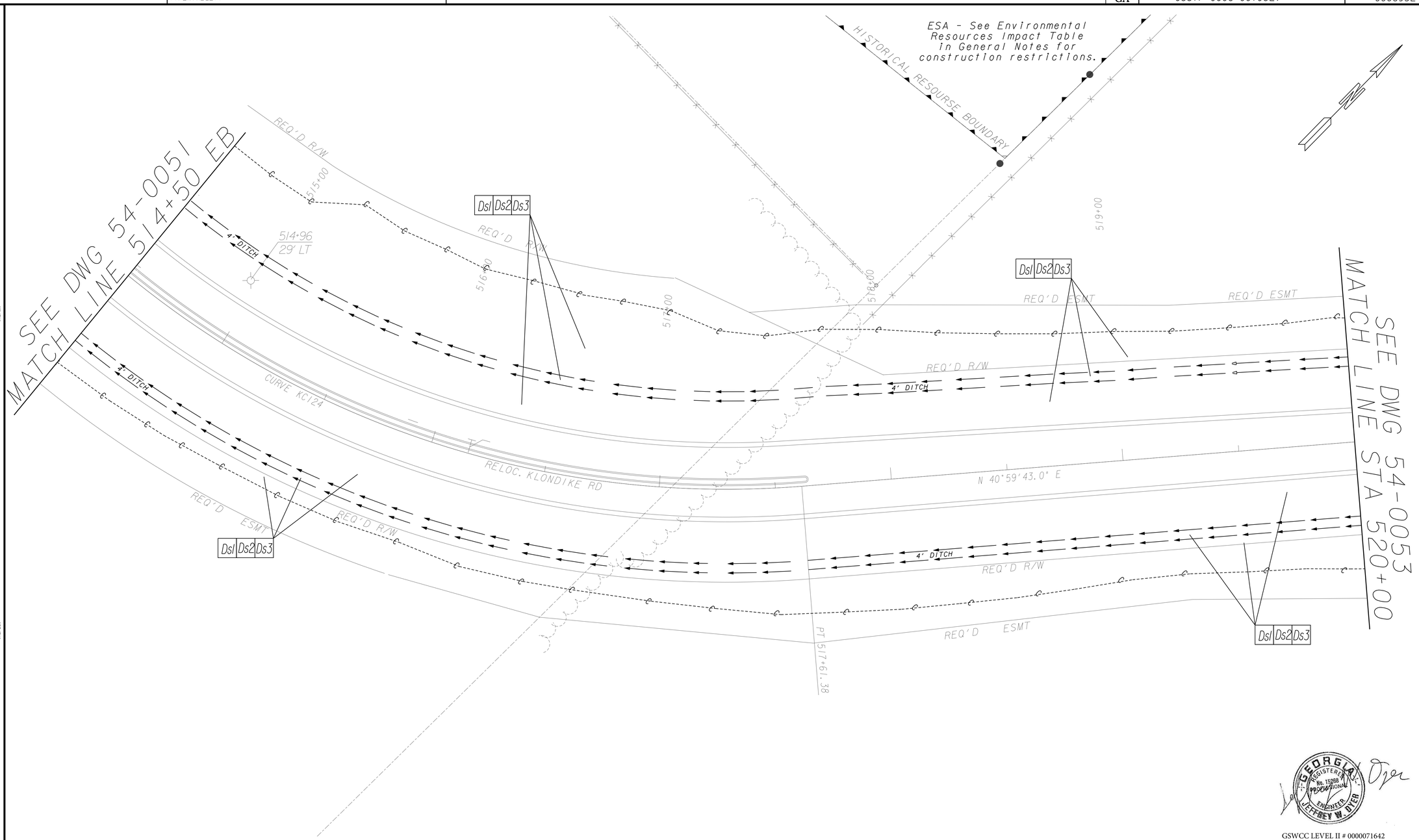
STATE	PROJECT NUMBER	P.I. No.
GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	Sd-1 Sd-2	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sd1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sd1-S
BITUMINOUS TREATED ROVING	-W3- Ch-Br		

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FINAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
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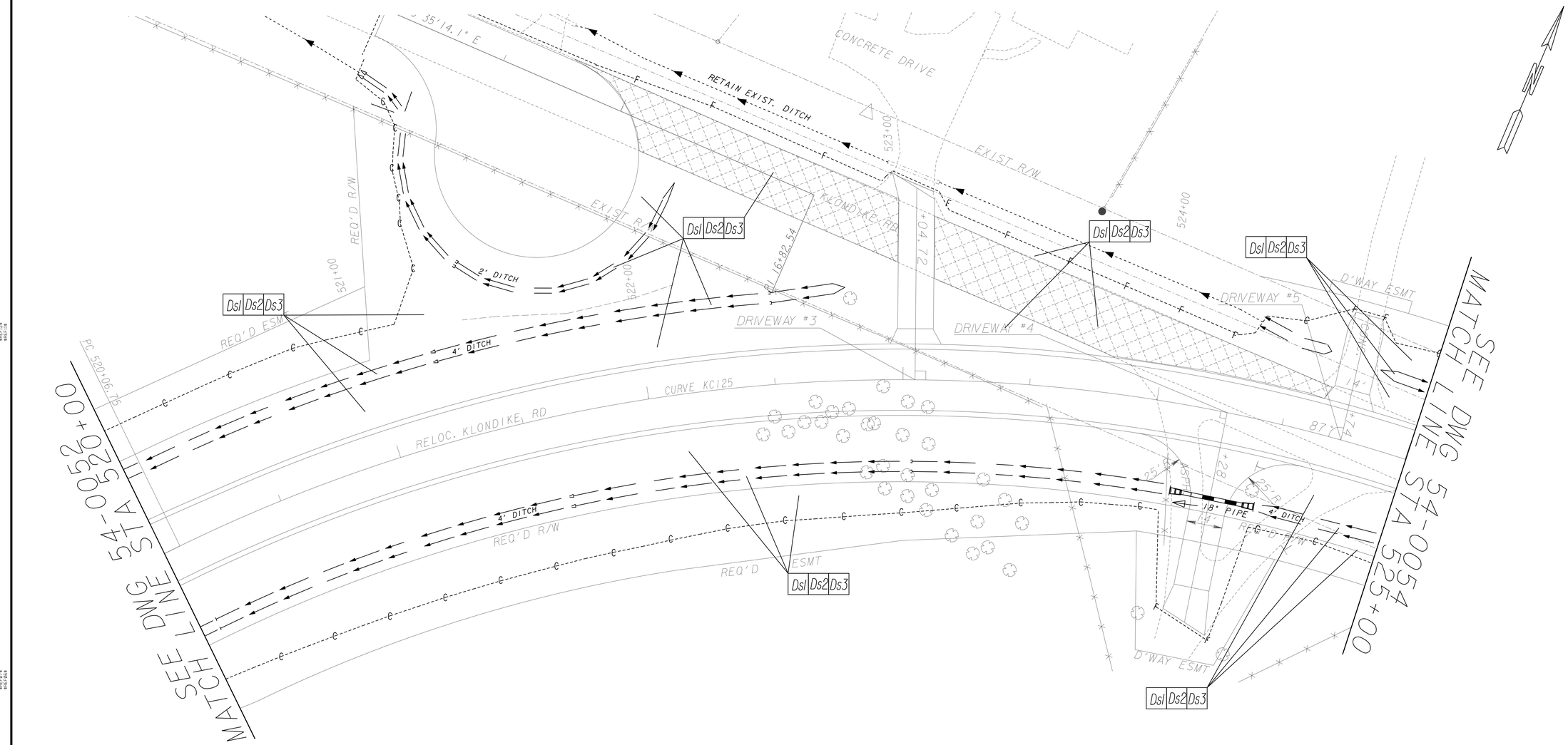
DRAWING No. 54-0052

3/1/2007 GPLN

DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	(Sd-1) (Sd-2)	FABRIC CHECK DAM	(Sd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sf-1)
STORM DRAIN OUTLET PROTECTION	(Sl-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sf-3)
BITUMINOUS TREATED ROVING	(-W-) (Ch-Br)		

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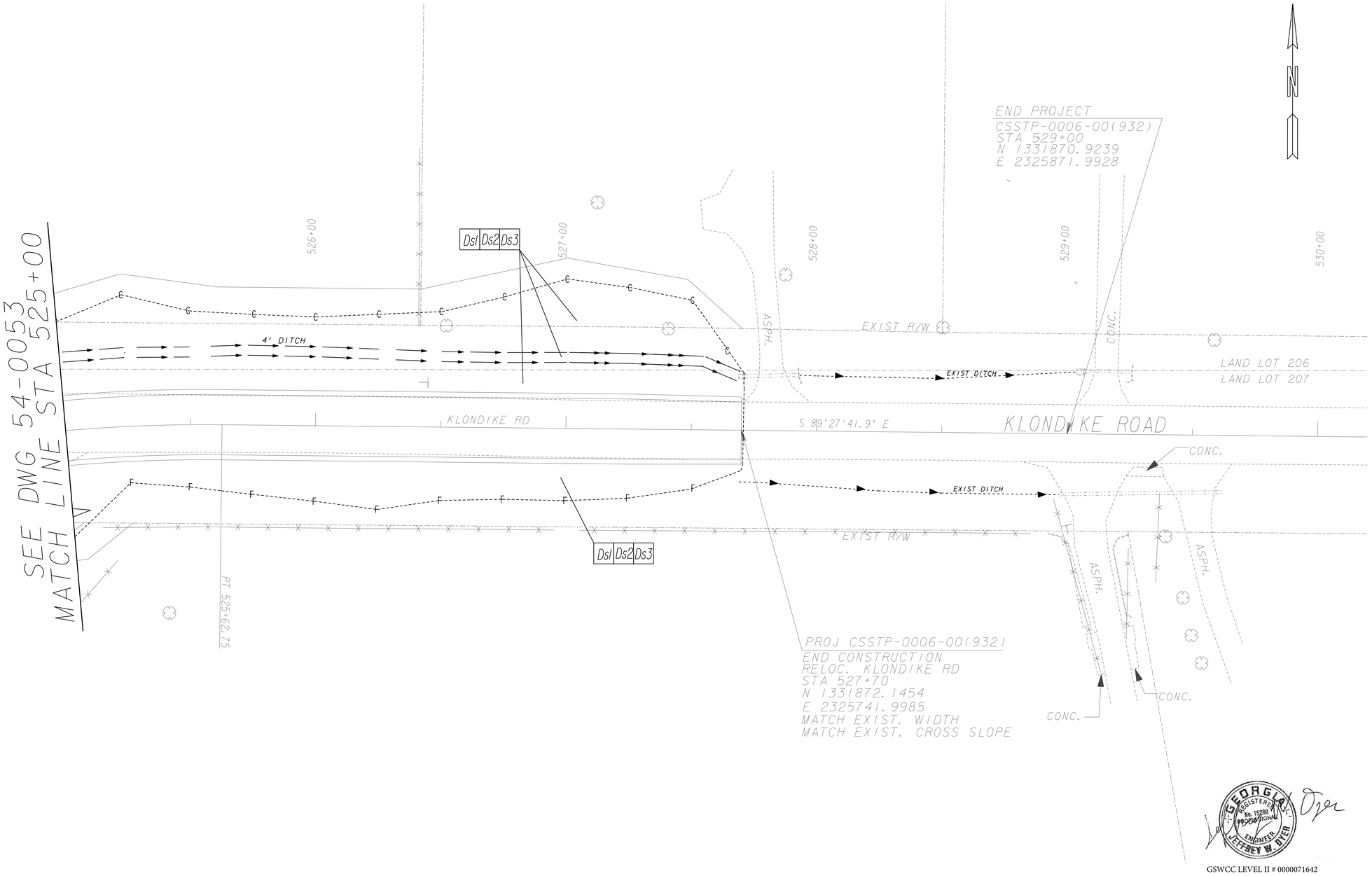
FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0053

3/1/2007 GPLN

DATE$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



SEDIMENT TRAP	Sed-1 Sed-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp	SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
RIP RAP			
BITUMINOUS TREATED ROVING	W2 Ch-Br		

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HURST RD INTERSECTION IMPROVEMENTS

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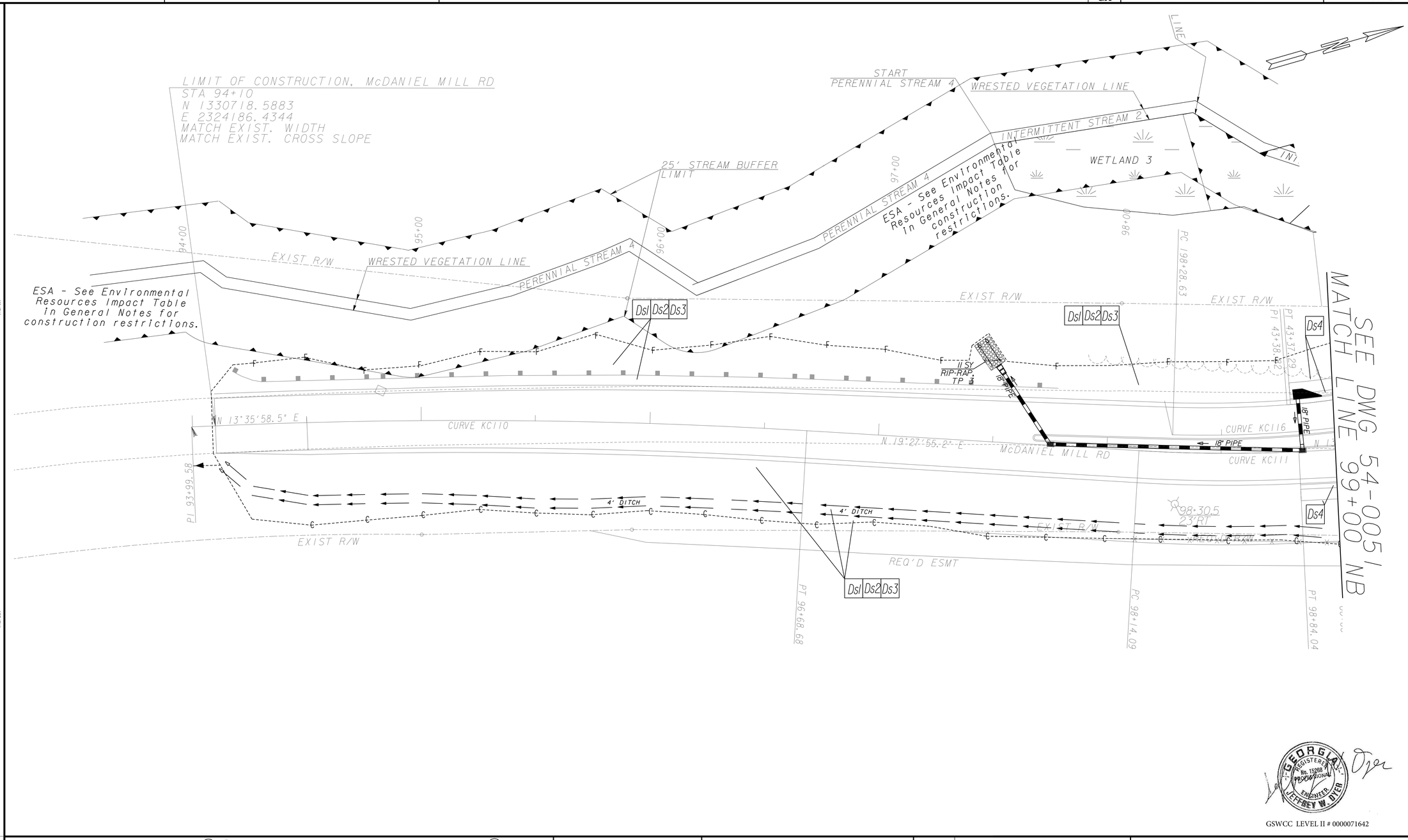

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SEDIMENT TRAP	(542-1) (542-8)	FABRIC CHECK DAM	(24-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(541-A)
STORM DRAIN OUTLET PROTECTION	(SI-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(541-S)
BITUMINOUS TREATED ROVING	-U2- (Ch-Bt)		

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DEPARTMENT OF TRANSPORTATION

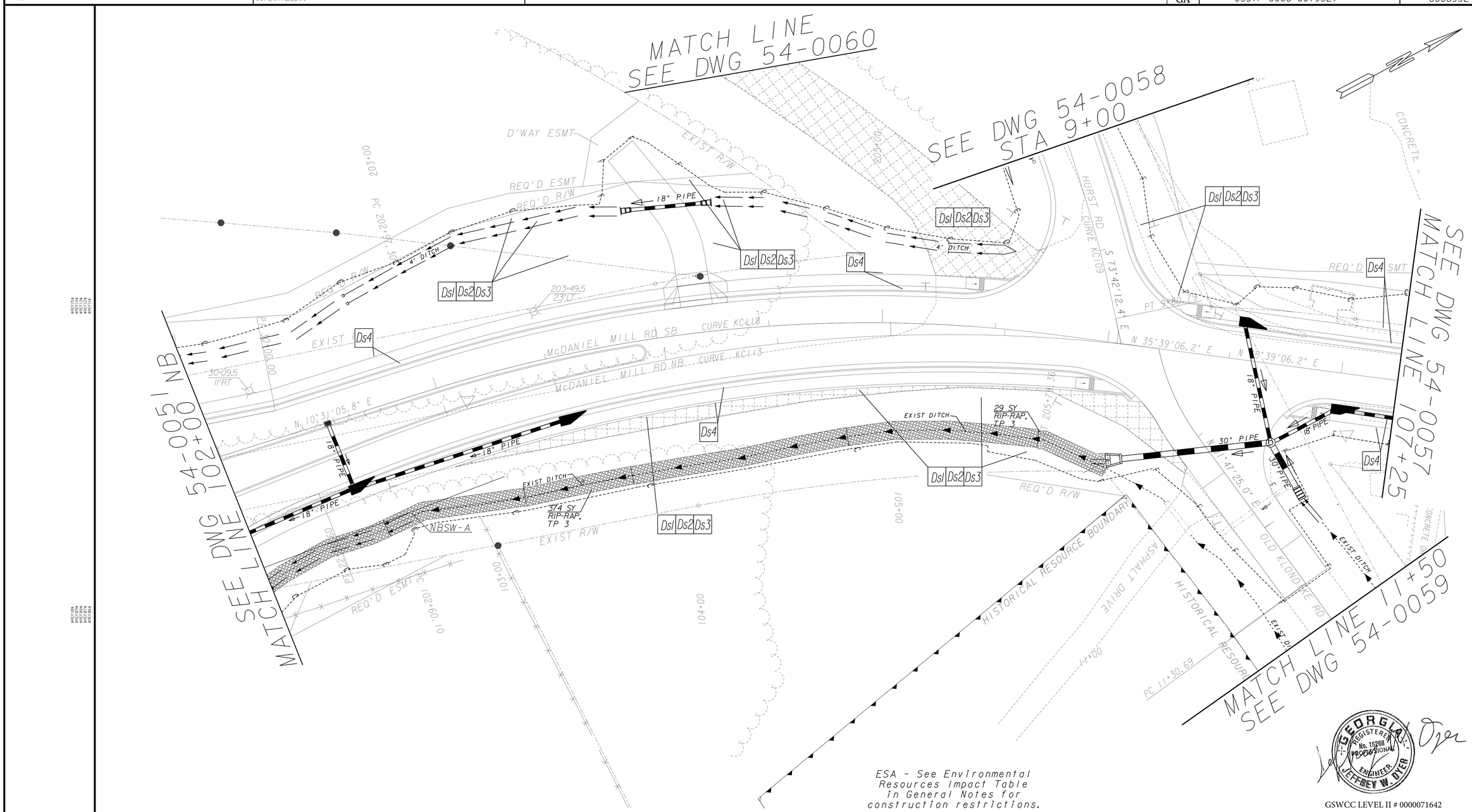
FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0055

3/1/2007 GPLN

DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	P.I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



ESA - See Environmental Resources Impact Table in General Notes for construction restrictions.

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd-1 Sd-2	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-NS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	~U~ Ch-Bt		

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FINAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0056

3/1/2007 GPLN

DATE$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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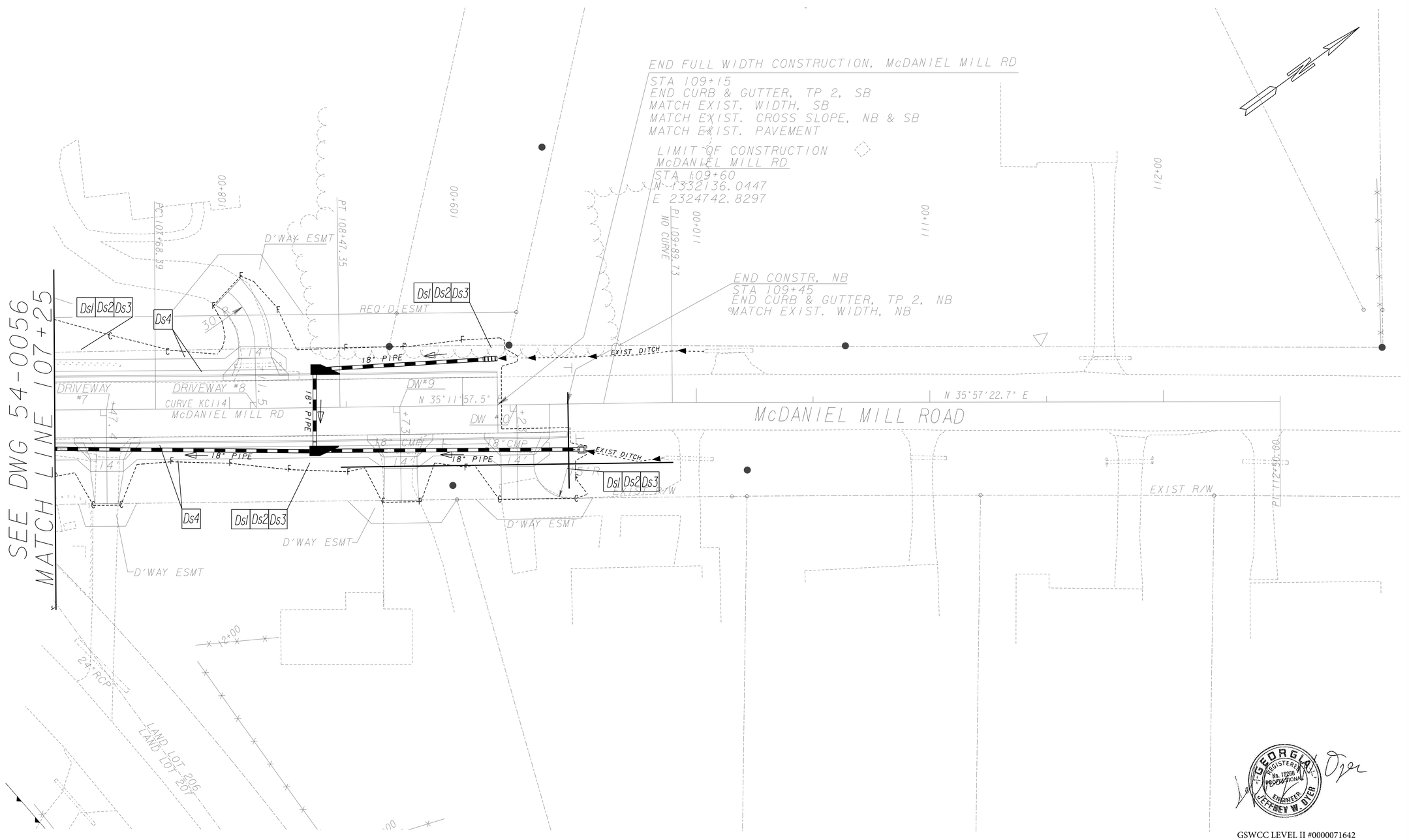

SEDIMENT TRAP	(Sd-1) (Sd-8)	FABRIC CHECK DAM	(Cd-1)
SILT CONTROL GATE	(Sg) (Sg-3)	CONSTRUCTION EXIT	(Co)
CHANNEL RIP RAP TYPE 3	(Ch-Rp3)	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	(Sd-R3)
STORM DRAIN OUTLET PROTECTION	(St-Rp)		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	(Sd-3)
BITUMINOUS TREATED ROVING	-42- (Ch-Bt)		

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GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

GSWCC LEVEL II #0000071642

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

FINAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 54-0057

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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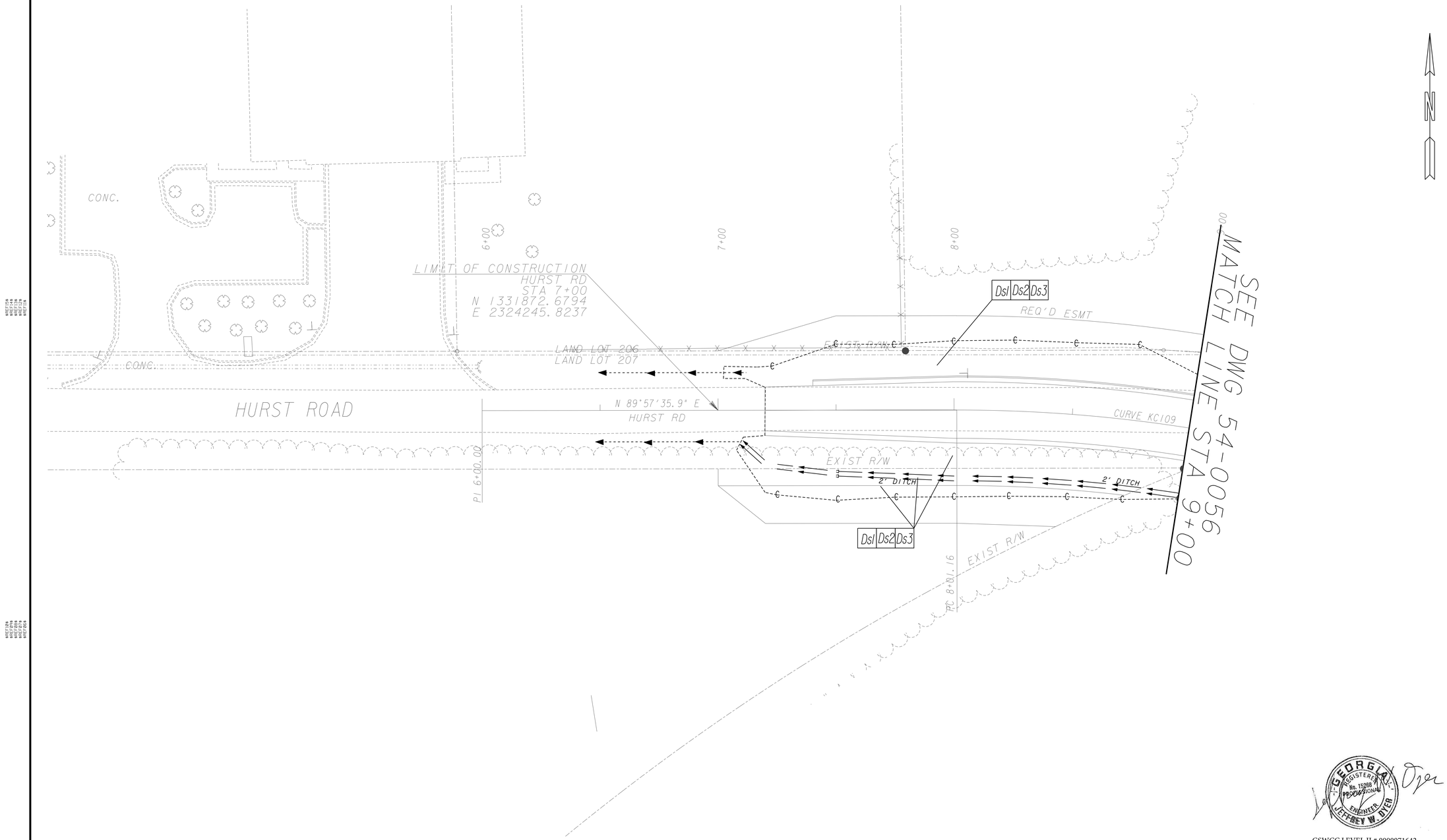

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-1 Sd2-8	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-Ns
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	-42- Ch-Bt		

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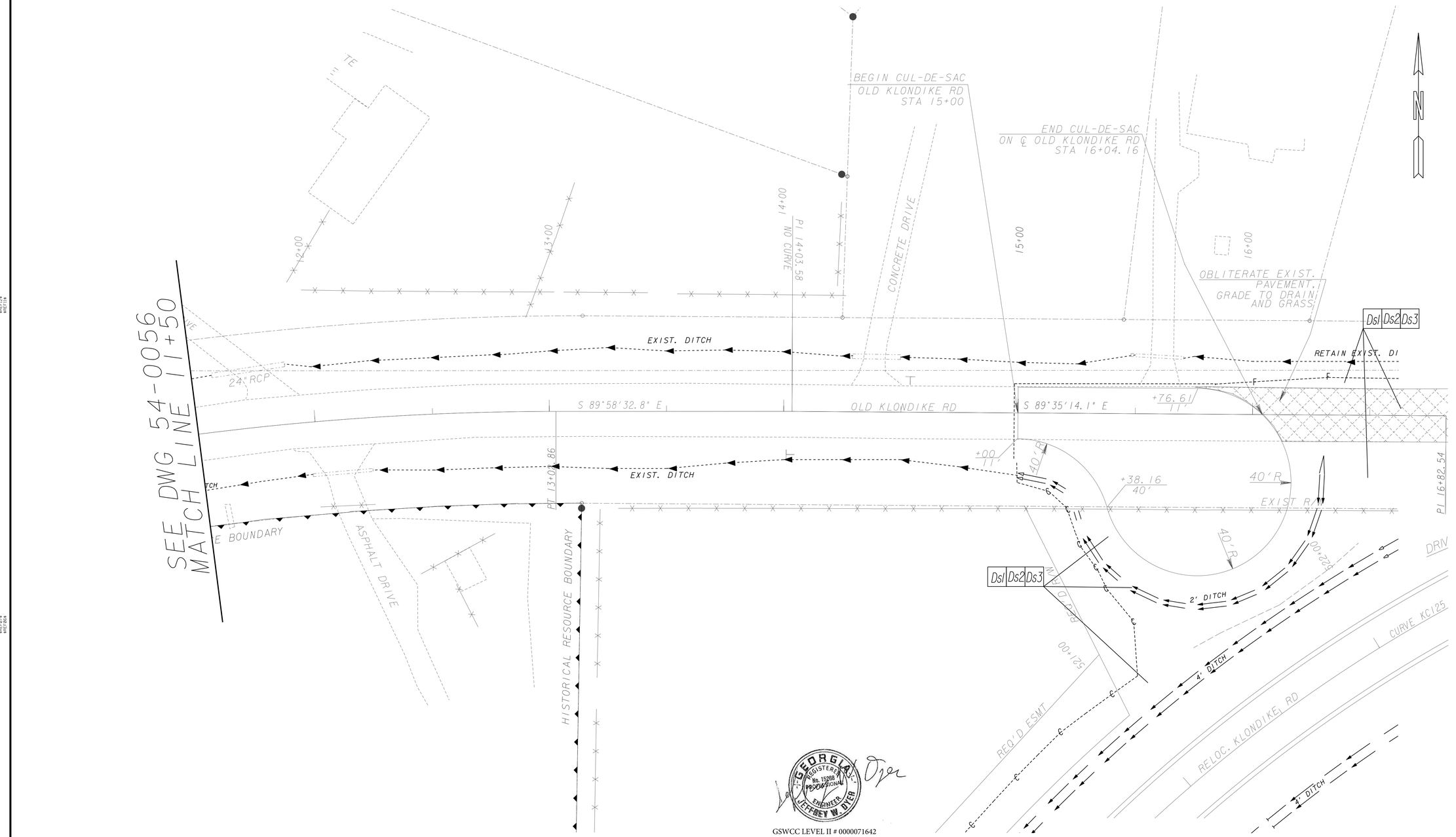
FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 54-0058

3/1/2007 GPLN

DATE$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd-1 Sd-2	FABRIC CHECK DAM	Cd-1
SILT CONTROL GATE	Sg Sg-3	CONSTRUCTION EXIT	Co
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	-Rg- Ch-Br		

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FINAL PHASE
BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0059

3/1/2007 GPLN

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
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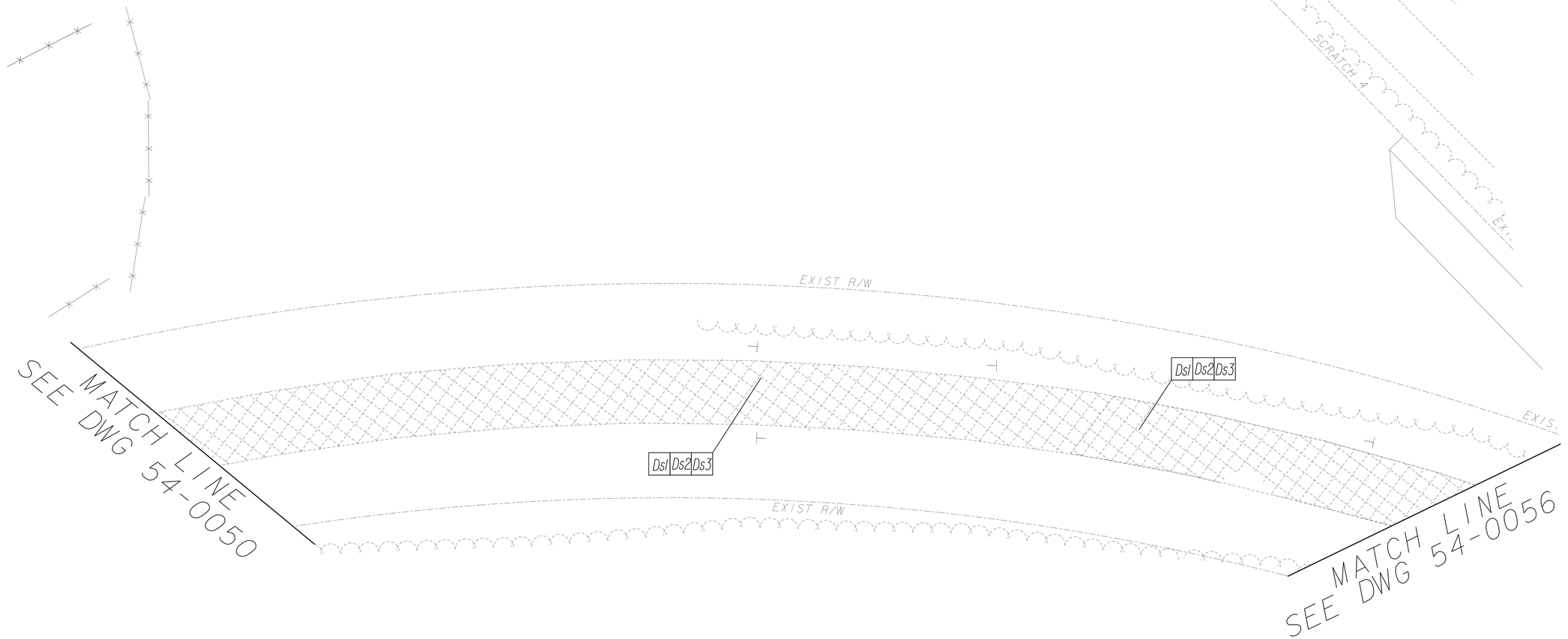

GSWCC LEVEL II # 0000071642

SEDIMENT TRAP	Sd2-T Sd2-B	FABRIC CHECK DAM	Cd-T
SILT CONTROL GATE	SG Sg-3	CONSTRUCTION EXIT	CG
CHANNEL RIP RAP TYPE 3	Ch-Rp3	SILT FENCE TYPE A SEDIMENT BARRIER (NON-SENSITIVE)	Sf1-RS
STORM DRAIN OUTLET PROTECTION	St-Rp		
RIP RAP		SILT FENCE TYPE C SEDIMENT BARRIER (SENSITIVE)	Sf1-S
BITUMINOUS TREATED ROVING	-W- Ch-Br		

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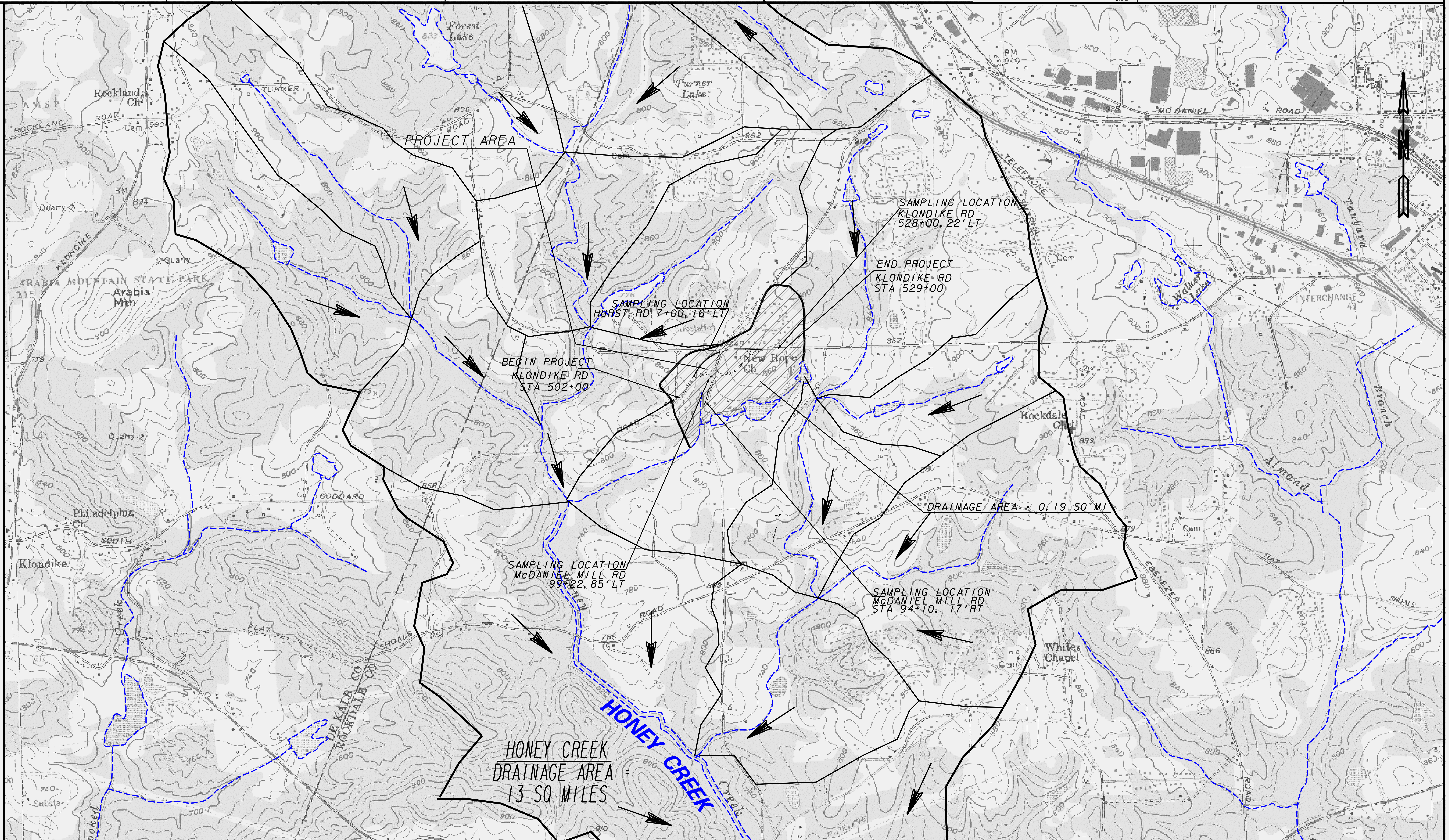
FINAL PHASE BMP LOCATION DETAILS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 54-0060

3/1/2007 GPLN

STATE	PROJECT NUMBER	P.I. No.
GA	CSSTP-0006-00(932)	0006932



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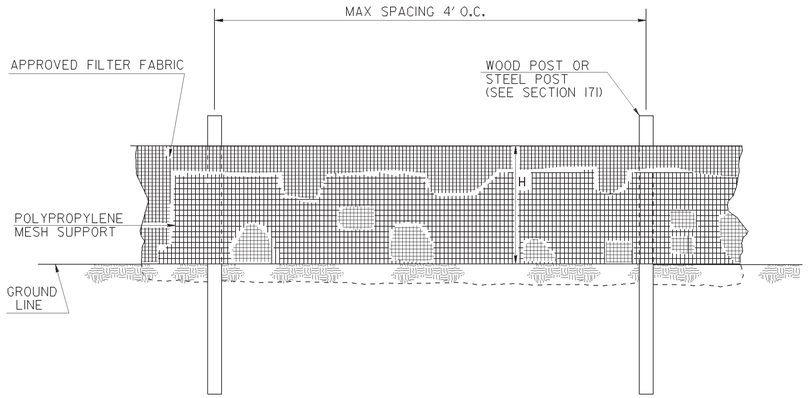
DEPARTMENT OF TRANSPORTATION

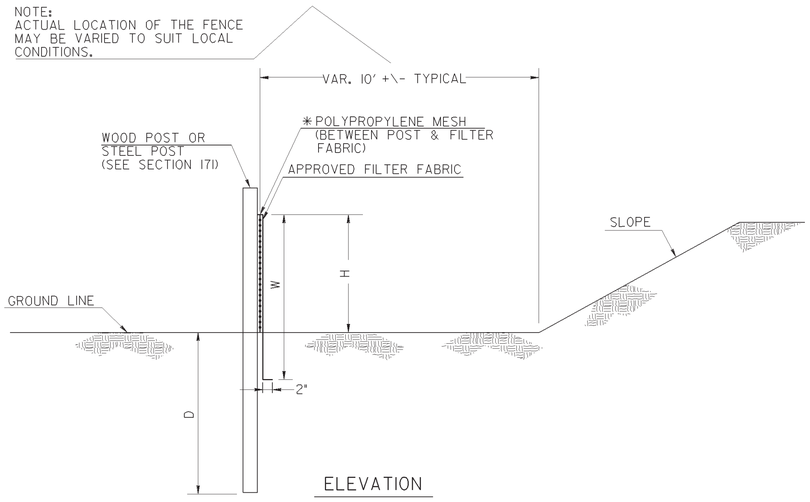
WATERSHED MAP
SITE MONITORING PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
55-0001

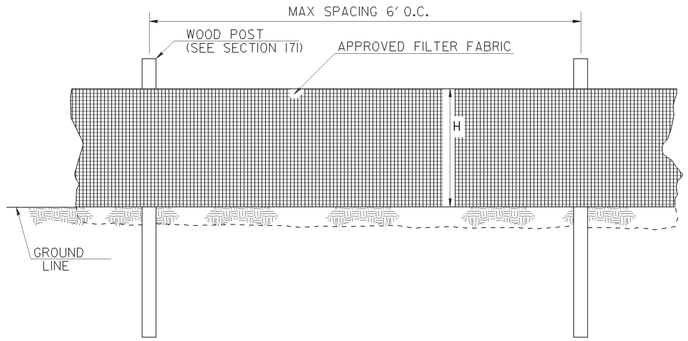
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

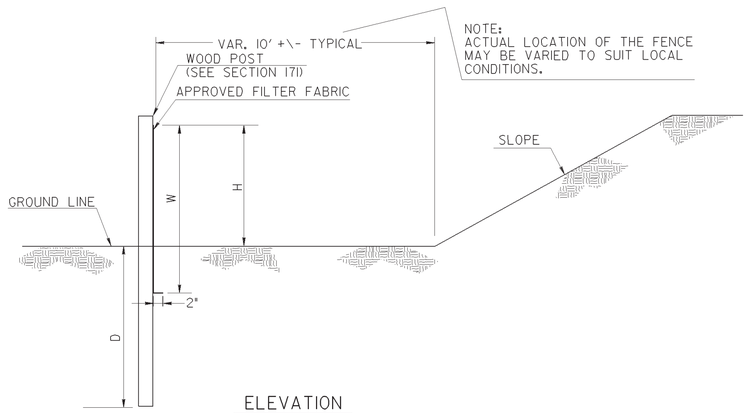




ELEVATION

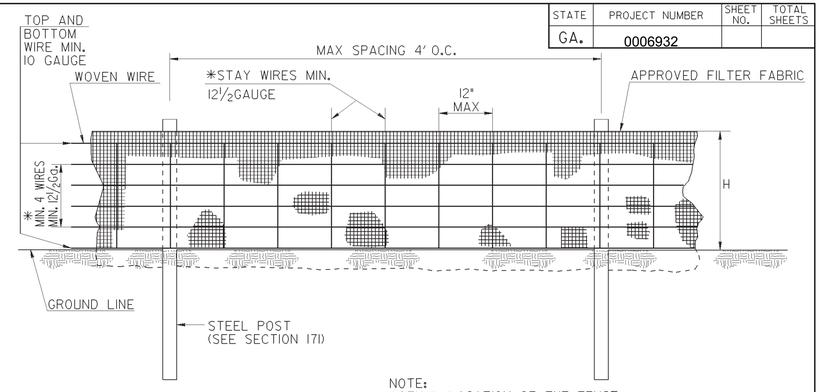
SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT

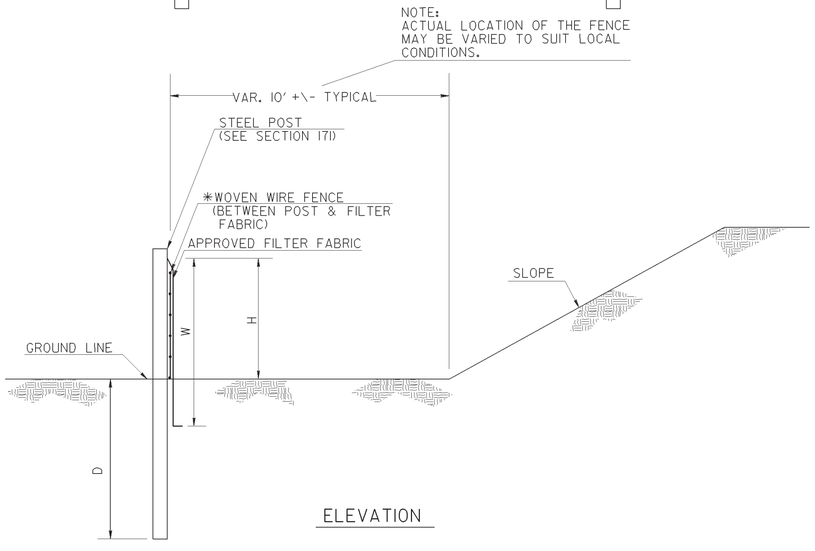




ELEVATION

SINGLE ROW TYPE A SILT FENCE





ELEVATION

SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾ INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

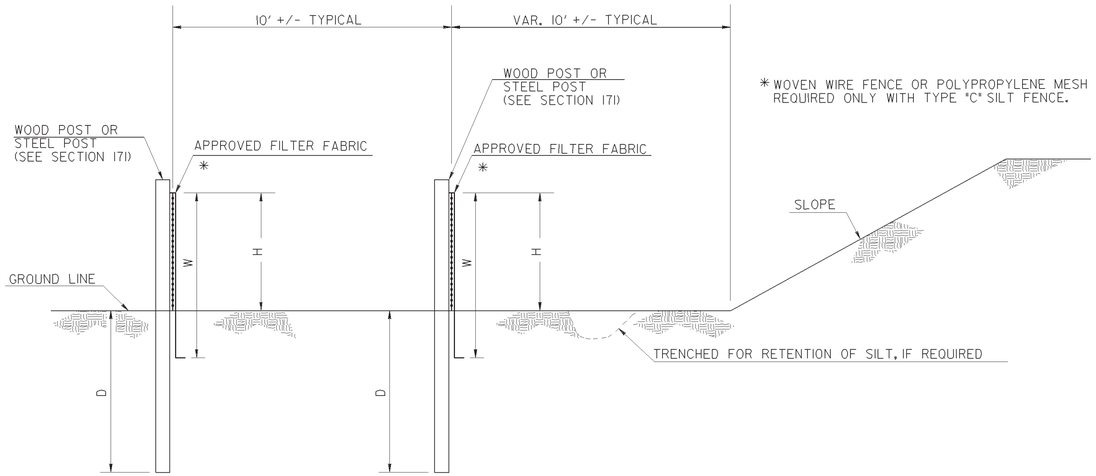
TEMPORARY SILT FENCE

NO SCALE — REV. AND REDRAWN JAN. 2011

DATE | REVISION | BY

NUMBER D-24A
(SHEET 1 OF 4)

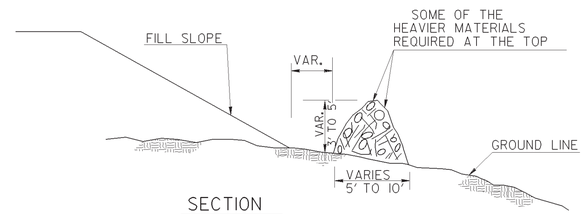
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	0006932		



ELEVATION

DOUBLE ROW SILT FENCE

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



SECTION

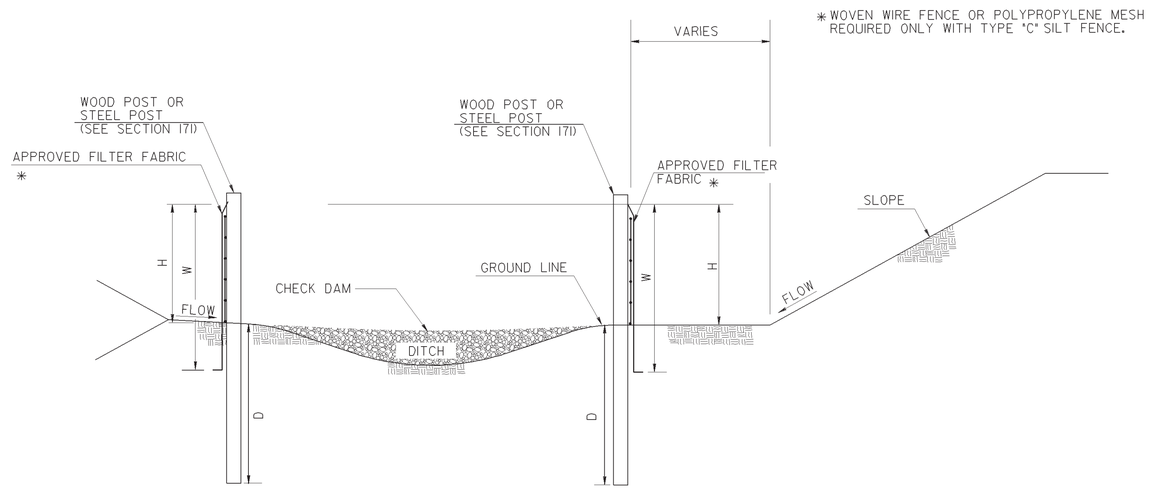
NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

FRONT VIEW

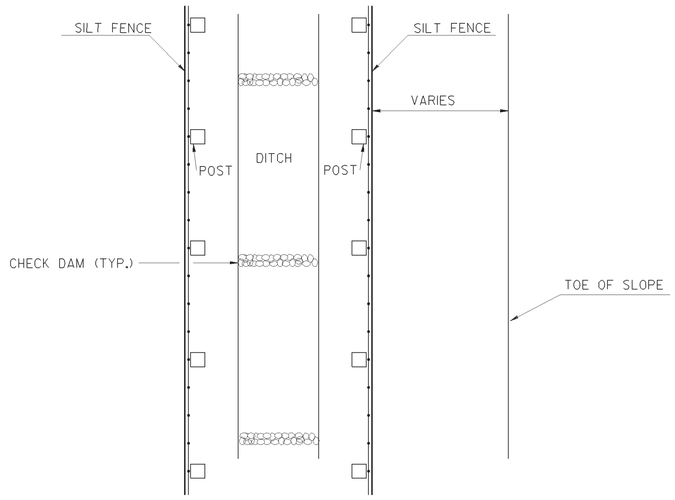
NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BRUSH BARRIER DETAILS

(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

BERM DITCH, INSTALLATION, BRUSH BARRIER

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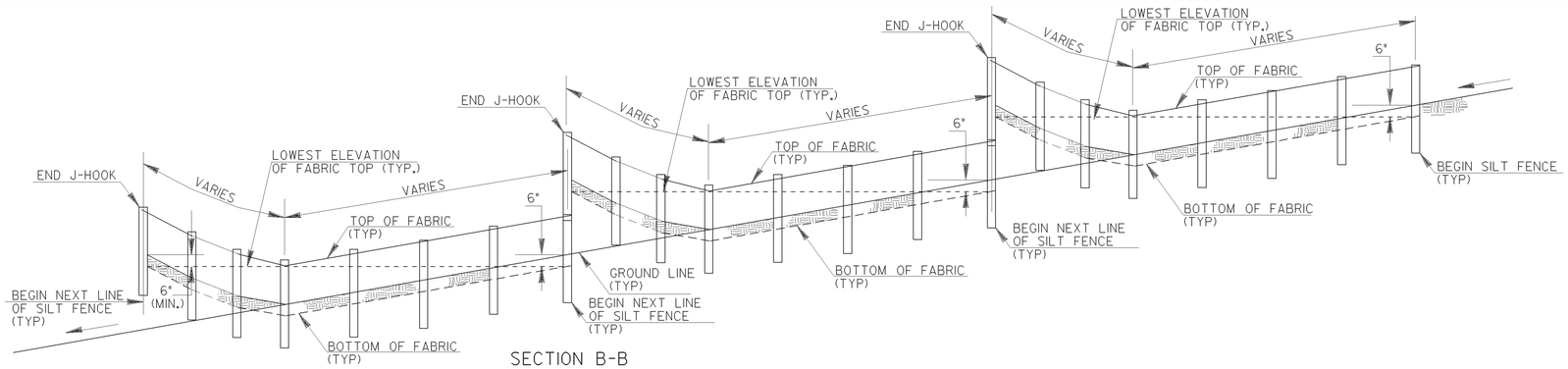
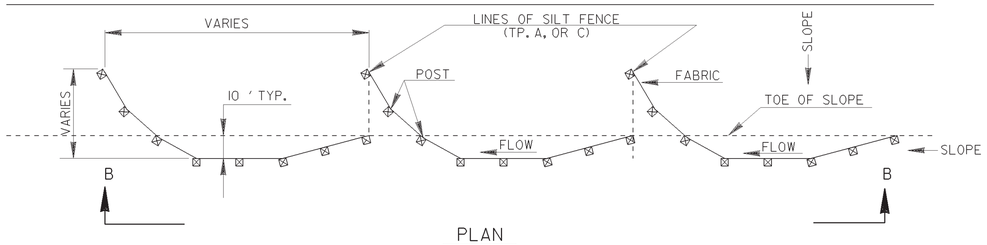
DATE | REVISION | BY

NUMBER D-24B (SHEET 2 OF 4)

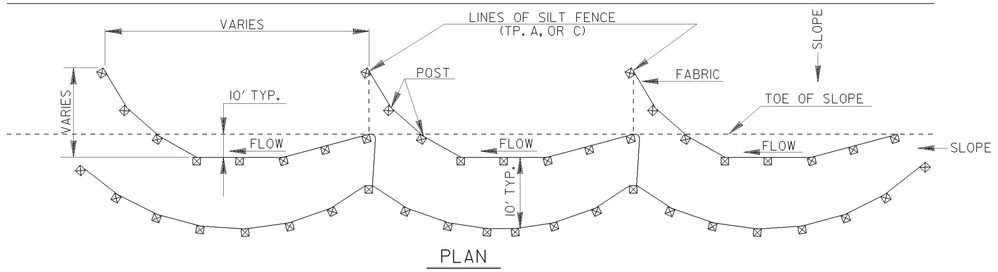


SECTION B-B



PLAN

SINGLE ROW SILT FENCE



PLAN

DOUBLE ROW SILT FENCE

TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

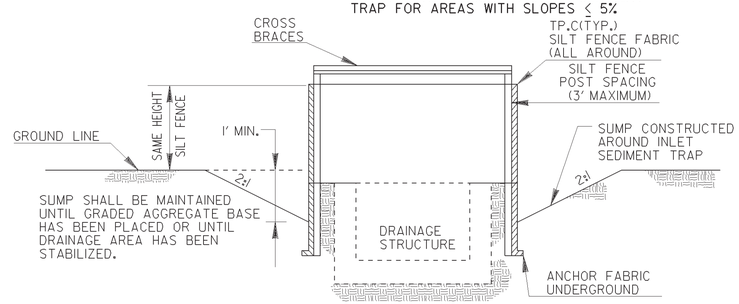
NOTE:

1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

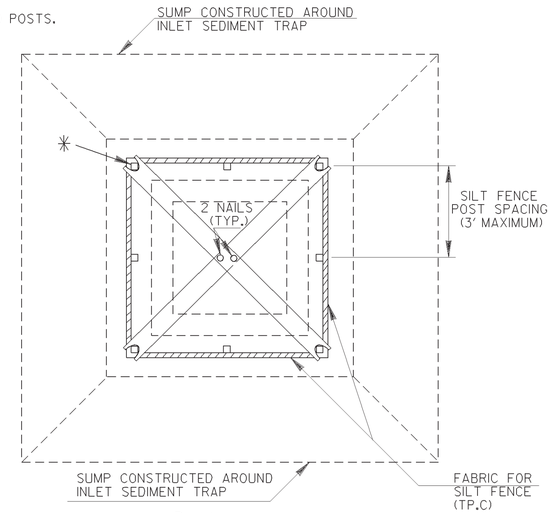
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES ≤ 5%



ELEVATION

✳ CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



PLAN

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

INLET SEDIMENT TRAP - FOR DROP INLETS

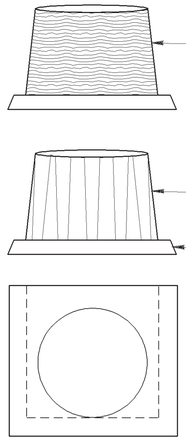
NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

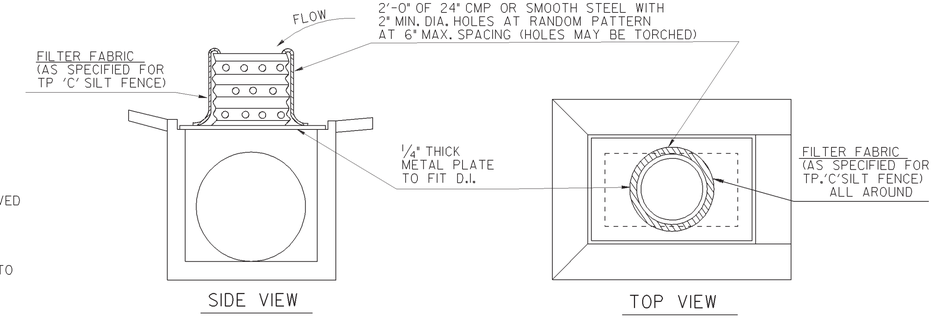
NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

(PLASTIC ALTERNATE)



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

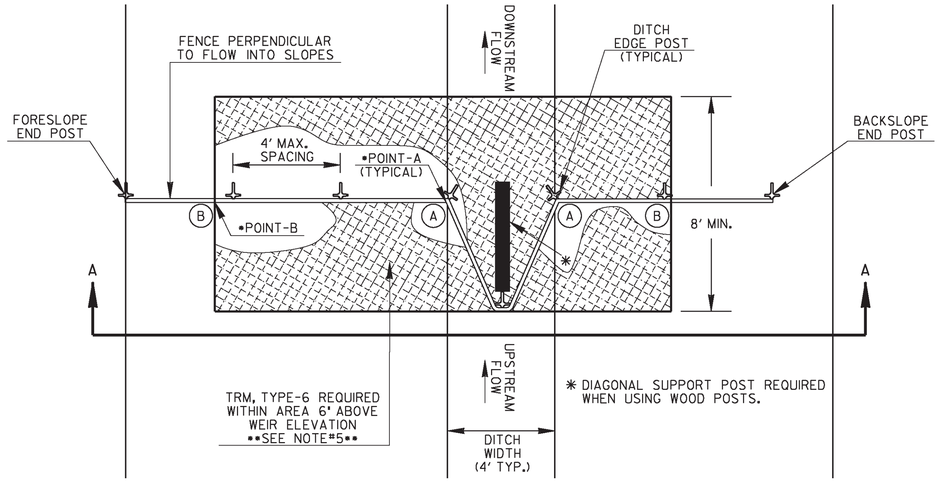
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

NO SCALE — JANUARY 2011

DATE | REVISION | BY

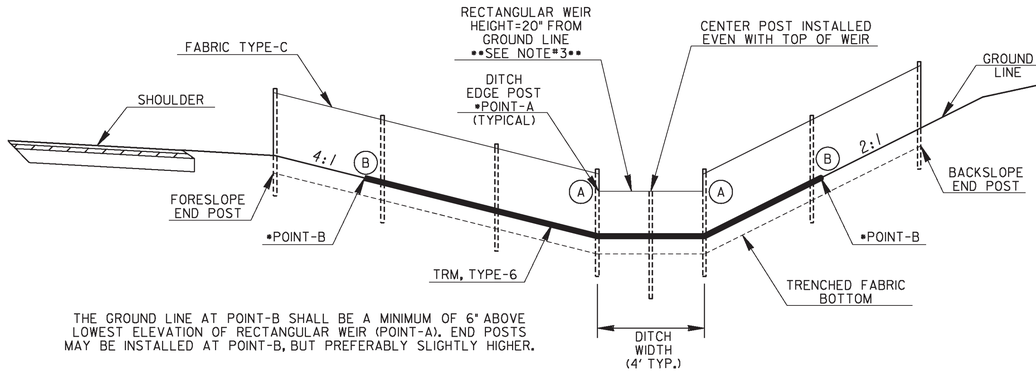
NUMBER D-24C (SHEET 3 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



PLAN VIEW

TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±

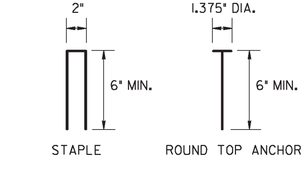


THE GROUND LINE AT POINT-B SHALL BE A MINIMUM OF 6" ABOVE LOWEST ELEVATION OF RECTANGULAR WEIR (POINT-A). END POSTS MAY BE INSTALLED AT POINT-B, BUT PREFERABLY SLIGHTLY HIGHER.

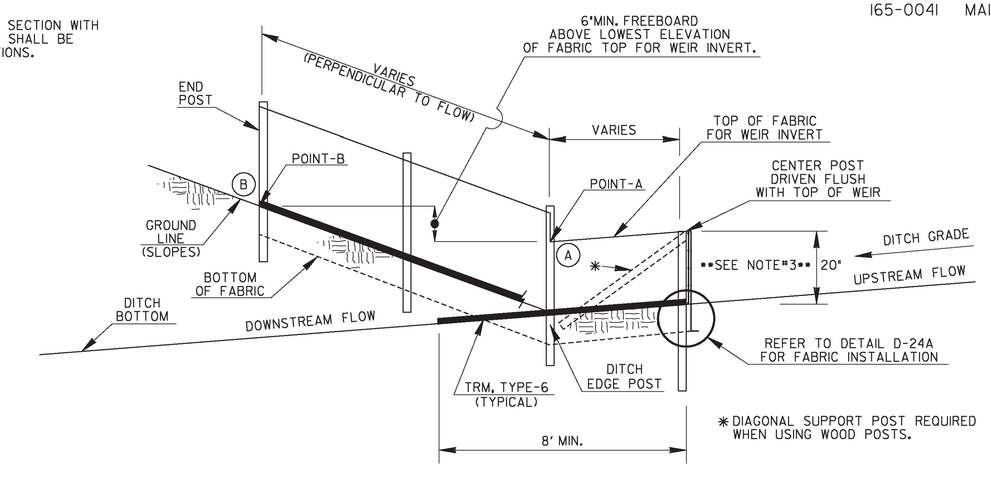
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.

2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.

3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.

4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:

   A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.

   B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.

   C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.

   D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.

   E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.

   F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.

5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

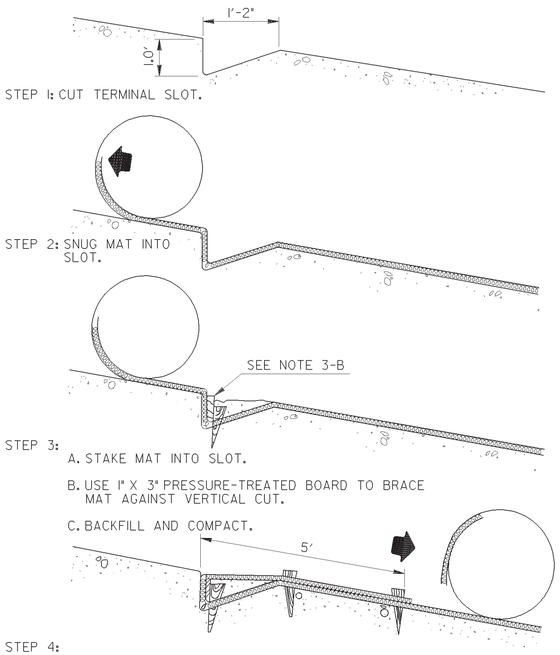
FABRIC CHECK DAM

NO SCALE — REV. AND REDRAWN, JULY 2015

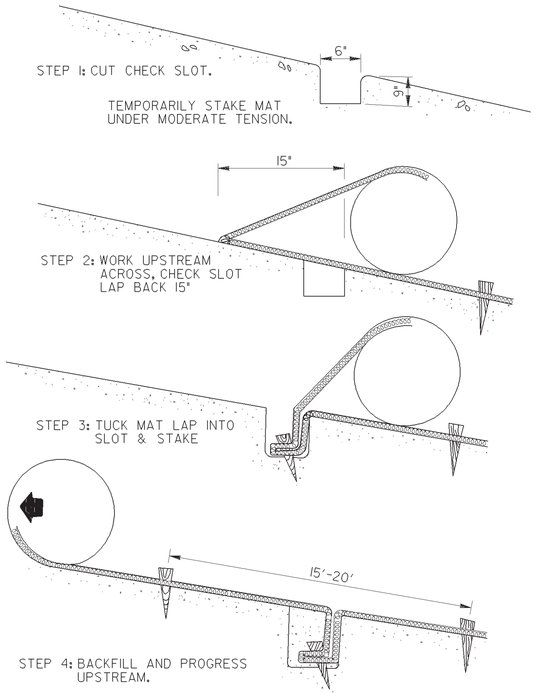
DATE | REVISION | BY

NUMBER D-24D (SHEET 4 OF 4)

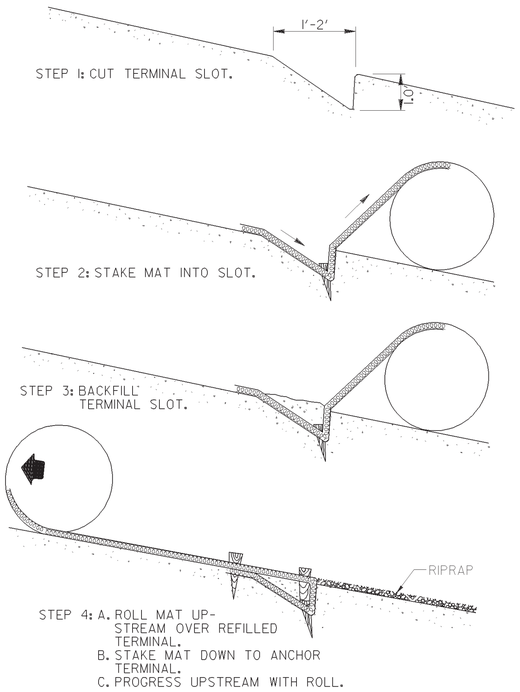
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



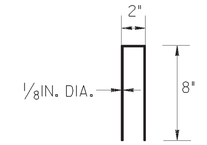
UPSTREAM TERMINAL



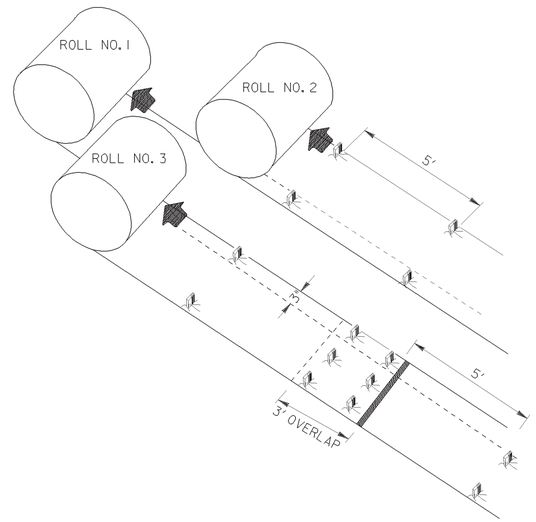
TRANSVERSE CHECK SLOT



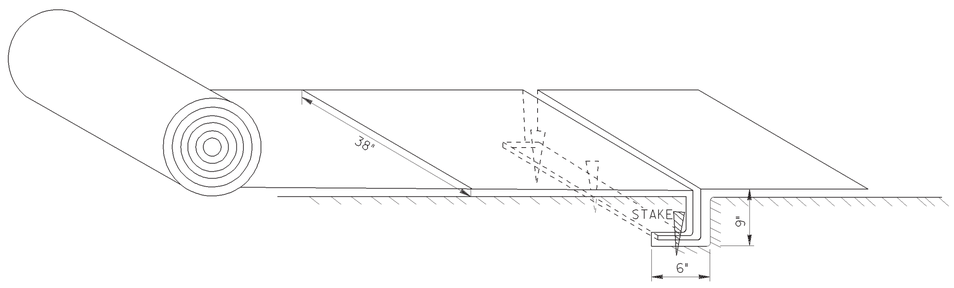
DOWNSTREAM TERMINAL



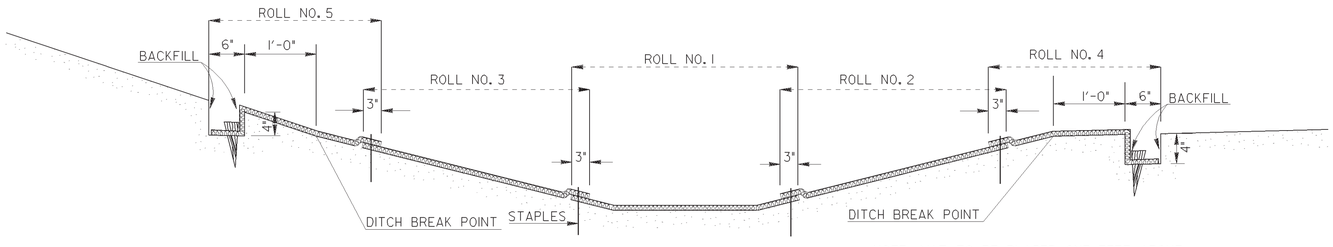
METAL MATTING - BLANKET STAPLE



SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORAL VIEW OF TRANSVERSE SLOT



DITCH SECTION

NOTE: MAT TO BE PLACED ONE FEET ABOVE DITCH BREAK POINT OR ONE FOOT ABOVE THE 25 YEAR STORM.

GENERAL NOTES

1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
3. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
6. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.

BY	DATE	REVISION
T.P.C.	1-19-11	REVISED SHEET LAYOUT & ADDED DITCH SECTION. ADDED METAL STAPLE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

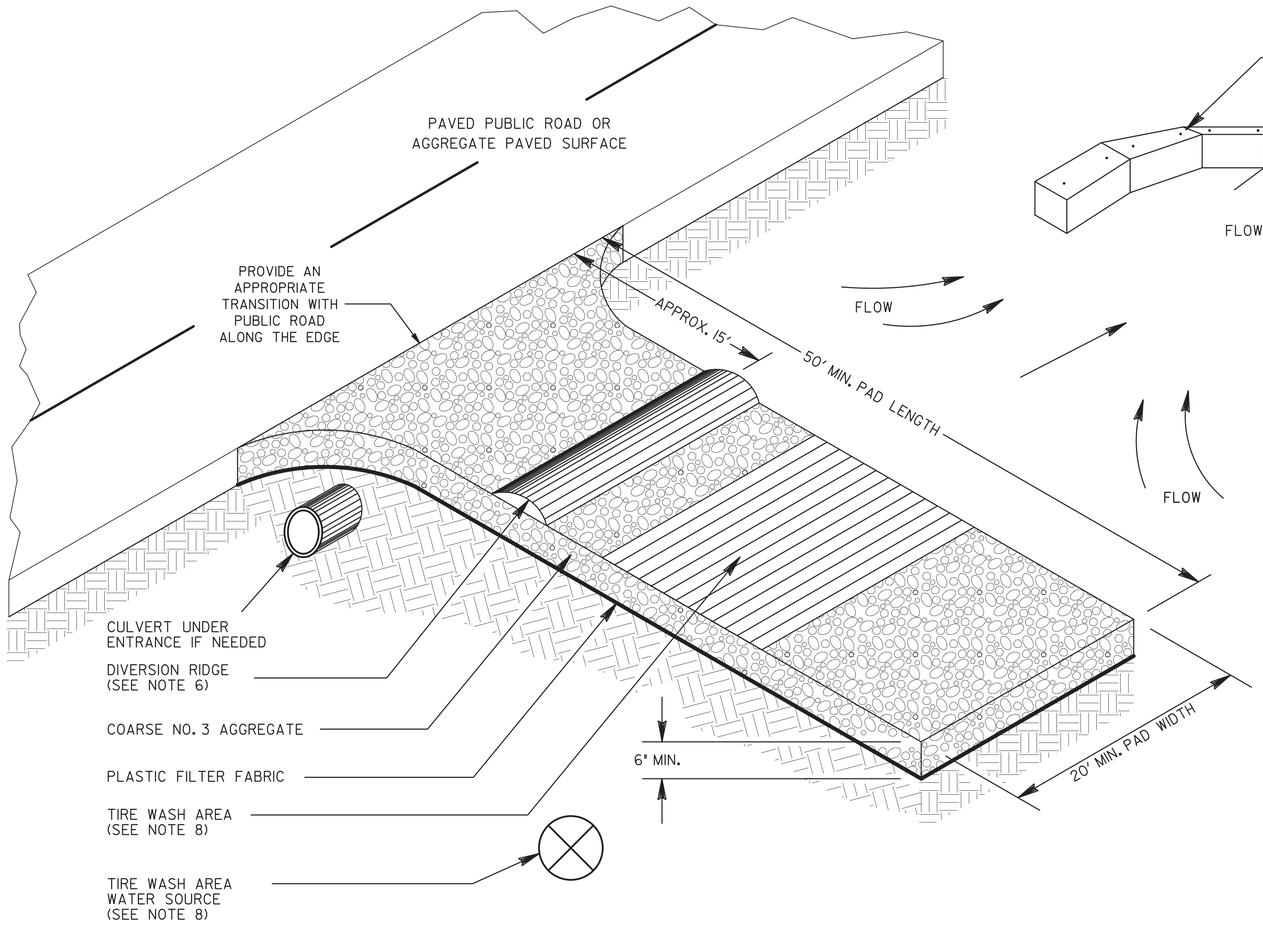
CONSTRUCTION DETAILS
PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MATS) INSTALLATION ON DITCHES

NO SCALE — AUGUST 1988

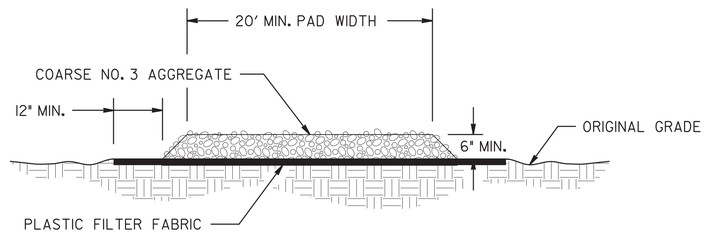
Designed ____
Drawn K.L.J.
Traced ____
Checked ____

NUMBER D-35

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



ENTRANCE ELEVATION



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE WASH ASSEMBLY TO AN EXISTING CONSTRUCTION EXIT WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE WASH ASSEMBLY INCLUDES: TIRE WASH AREA, WATER SOURCE, AND SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
9. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
10. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT WILL BE PAID ON THE BASIS OF HAVING OR NOT HAVING A CONSTRUCTION EXIT TIRE WASH ASSEMBLY WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

    SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:

163-0300	CONSTRUCTION EXIT	(EA)
163-0310	CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)

BY	REVISION	DATE
DLE	REV. TIRE WASH & NOTES	04-18-18
DLE	REV. GSWCC 2016 MANUAL	04-22-16
TPC	REV. CONSTR. EXIT LABELS	01-19-11

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

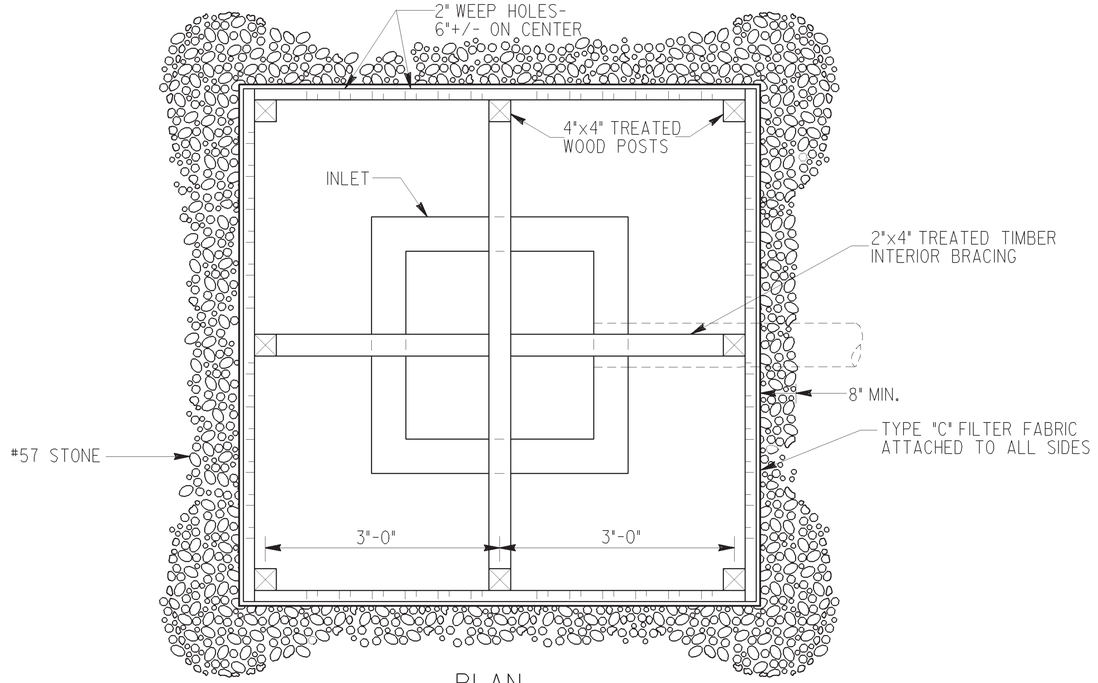
CONSTRUCTION DETAILS

CONSTRUCTION EXIT

NO SCALE — FEBRUARY 2001

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

NUMBER D-41

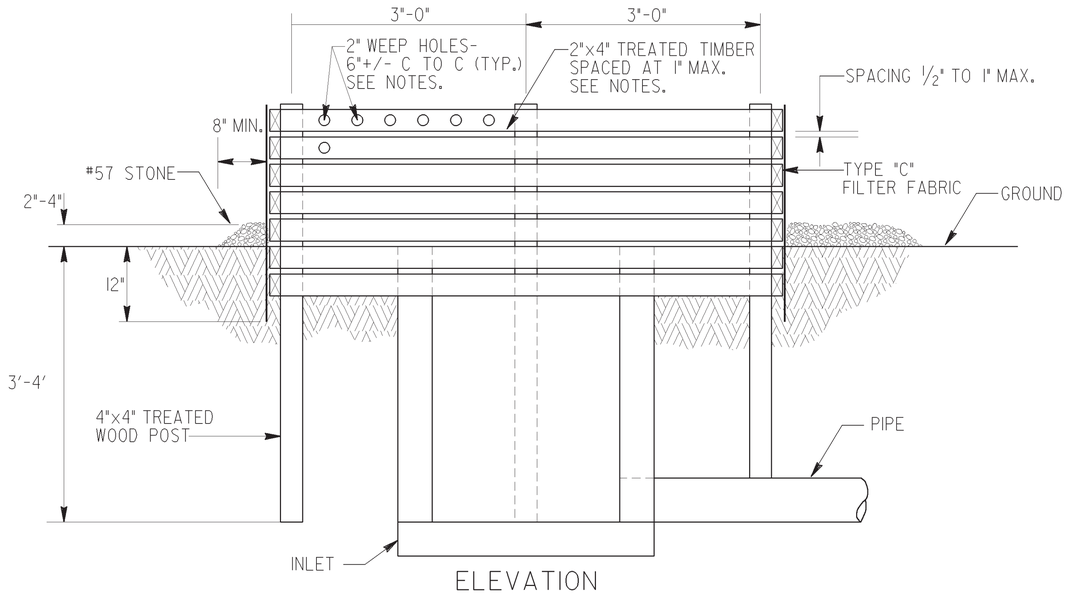


PLAN

NOTES:

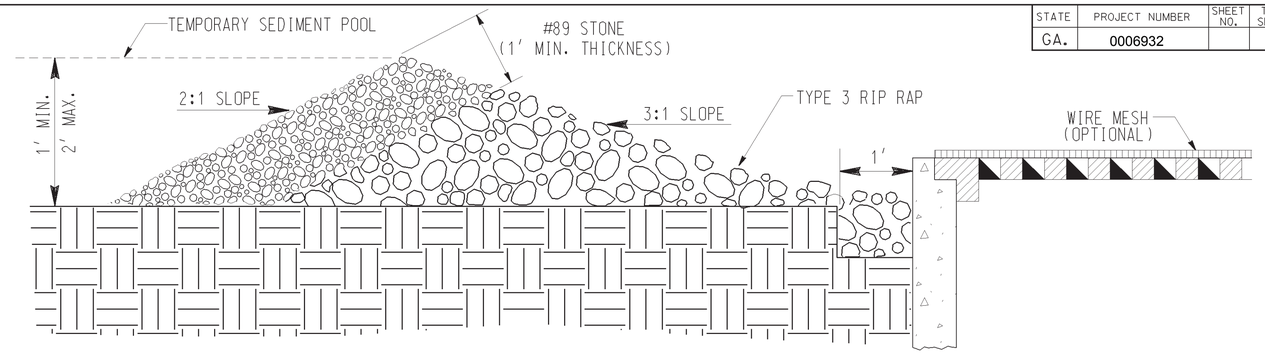
BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1" APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.

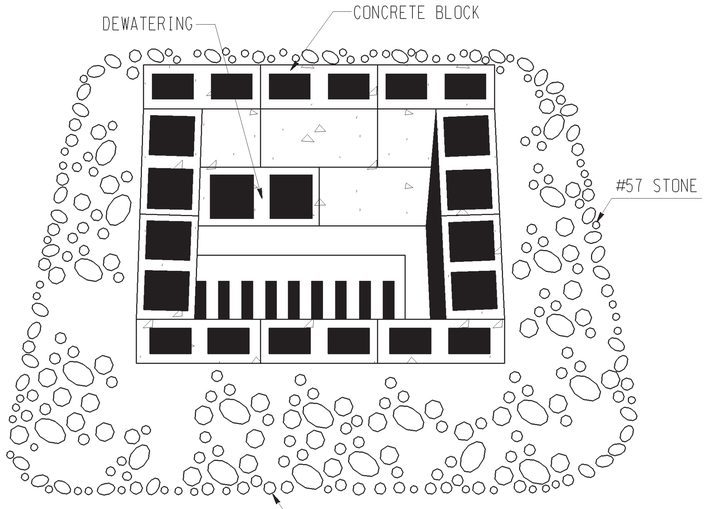


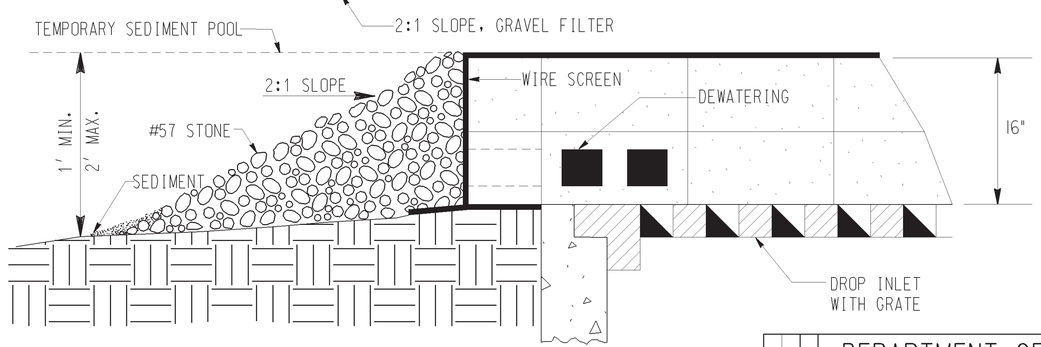
ELEVATION

BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION (GRAVEL DONUT) Sd2-G





BLOCK & GRAVEL DROP INLET PROTECTION (Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

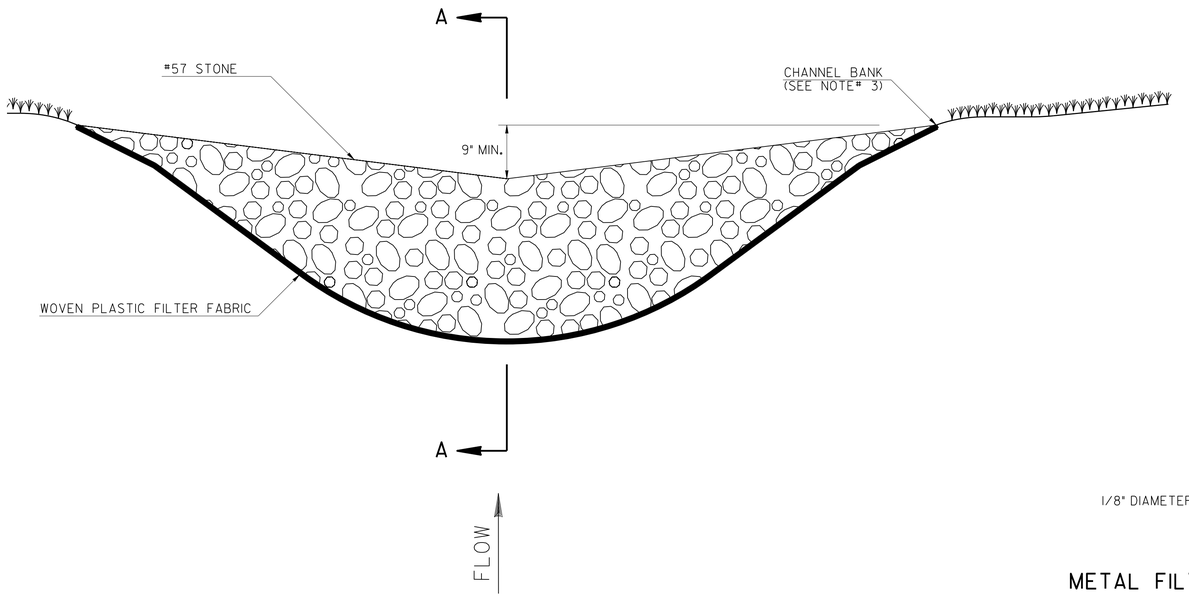
CONSTRUCTION DETAIL
INLET SEDIMENT TRAPS
BAFFLE BOX Sd2-B
BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg
GRAVEL DROP INLET PROTECTION Sd2-G

NO SCALE — MAY 2008

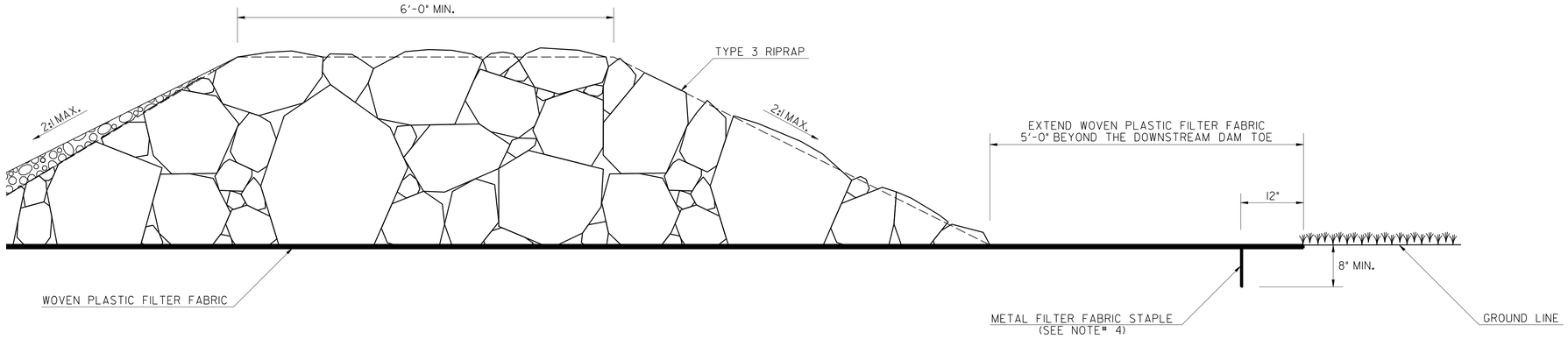
DATE	REVISION	BY

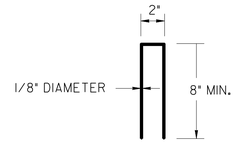
NUMBER D-42

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



SECTION A-A





METAL FILTER FABRIC STAPLE

BE 50-ACRES.

RS.

ANNEL BANKS OR ADVERSELY IMPACT UPSTREAM PROPERTY OR STATE WATERS WITH BACKWATER.
9-INCHES LOWER THAN THE OUTER EDGES OF THE ROCK FILTER DAM AT THE CHANNEL BANKS.

SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.

F THE ROCK FILTER DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
ROCK FILTER DAM

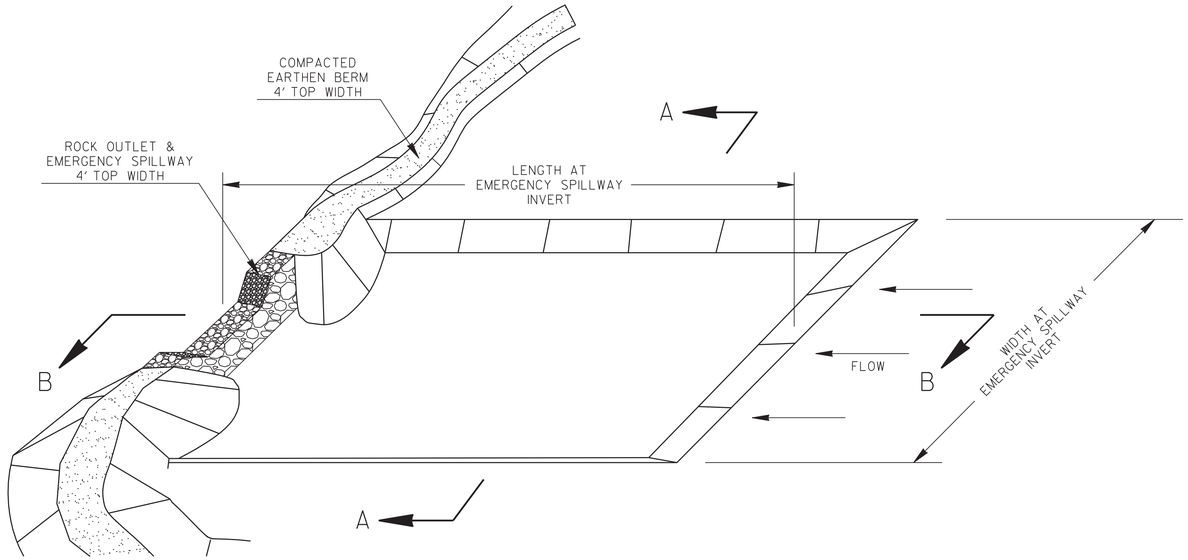
NO SCALE

4-22-2016

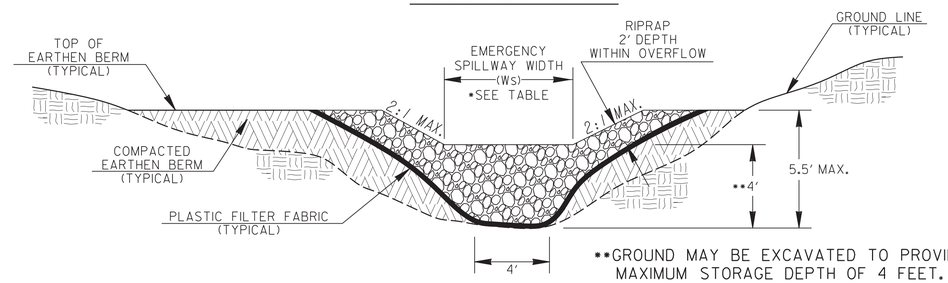
DATE | REVISION | BY

NUMBER
D-43

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

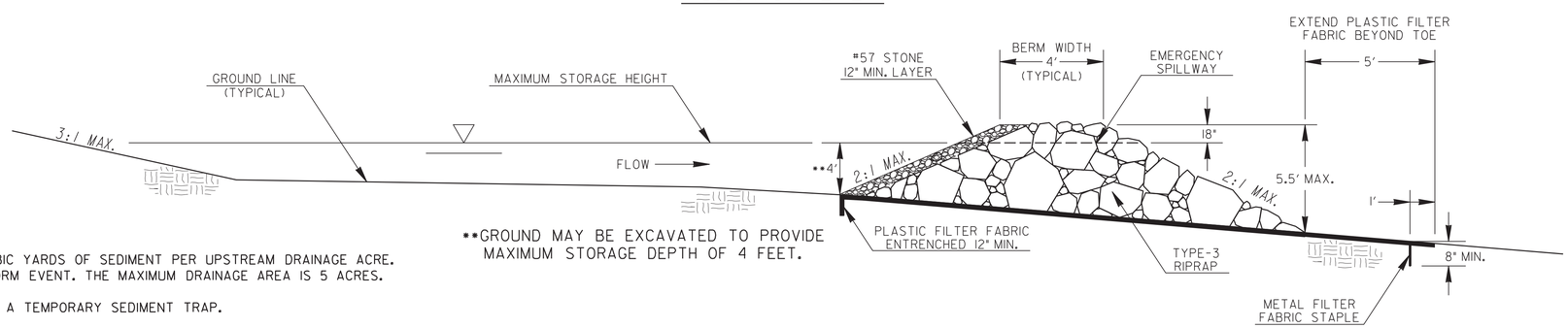


SECTION A-A



**GROUND MAY BE EXCAVATED TO PROVIDE MAXIMUM STORAGE DEPTH OF 4 FEET.

SECTION B-B



**GROUND MAY BE EXCAVATED TO PROVIDE MAXIMUM STORAGE DEPTH OF 4 FEET.

GENERAL NOTES:

1. A TEMPORARY SEDIMENT TRAP IS DESIGNED TO STORE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT PER UPSTREAM DRAINAGE ACRE. IT INCLUDES AN EMERGENCY SPILLWAY TO SAFELY CONVEY THE 10-YEAR STORM EVENT. THE MAXIMUM DRAINAGE AREA IS 5 ACRES.

   A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP.

2. THE NATURAL TOPOGRAPHY SHOULD BE USED AS THE SEDIMENT STORAGE AREA. COMPACTED EARTHEN BERMS SHOULD BE CONSTRUCTED IN AREAS SHOWN IN THE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN (ESPCP) TO PROVIDE THE REQUIRED SEDIMENT STORAGE NOTED IN THE SEDIMENT STORAGE TABLE OF THE ESPCP.

   AN EXCAVATED AREA WITH A MINIMUM LENGTH TO WIDTH RATIO OF 2:1 AND MAXIMUM STORAGE DEPTH OF 4 FEET MAY BE CONSTRUCTED TO PROVIDE THE REQUIRED SEDIMENT STORAGE NOTED IN THE SEDIMENT STORAGE TABLE OF THE ESPCP. BAFFLES ARE REQUIRED WHEN THE LENGTH TO WIDTH RATIO IS LESS THAN 2:1 TO PROVIDE THE REQUIRED EFFECTIVE LENGTH. BAFFLES SHALL BE MADE OF EXTERIOR GRADE 1/2" THICK PLYWOOD MOUNTED ON 4"x4" HARDWOOD POSTS ADEQUATELY ANCHORED.

   EARTHEN BERMS SHALL BE CONSTRUCTED AND COMPACTED IN 6 INCH MAXIMUM LAYERS TO A 5.50 FEET MAXIMUM HEIGHT MEASURED FROM THE DOWNSTREAM TOE OF SLOPE TO THE TOP OF THE BERM. CONSTRUCT EARTHEN BERMS WITH SOIL MATERIAL THAT CAN BE COMPACTED TO A UNIFORM DENSITY AS DIRECTED BY THE ENGINEER TO PREVENT SEEPAGE OR FAILURE OF THE EARTHEN BERM.

3. SLOPES SHALL NOT EXCEED 2:1 FOR ANY EXCAVATIONS AND COMPACTED EARTHEN BERMS. AN AREA WITH A 3:1 MAXIMUM SLOPE SHOULD BE PROVIDED TO ALLOW EASY ACCESS FOR MAINTENANCE. APPROVED EROSION CONTROL MATTING SHALL BE INSTALLED ON EARTHEN SLOPES GREATER THAN 2.5:1

4. THE CLEANOUT VOLUME IS ONE-THIRD OF THE TOTAL STORAGE VOLUME. THE CLEANOUT VOLUME SHALL BE CALCULATED AND MARKED WITH A STAKE AT THE OUTLET.

5. THE ROCK OUTLET AND EMERGENCY SPILLWAY SHALL BE MADE OF TYPE-3 RIPRAP FACED WITH #57 STONE ON THE UPSTREAM FACE. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP. THE PLASTIC FILTER FABRIC SHOULD BE ENTRENCHED A MINIMUM OF 12" AT THE TOE OF THE UPSTREAM FACE AND EXTENDED 5' BEYOND DOWNSTREAM TOE OF SLOPE.

6. THE DESIGNER SHALL PROVIDE THE LOCATION, LENGTH, WIDTH, Q_{10}, AND CLEANOUT ELEVATION FOR EACH TEMPORARY SEDIMENT TRAP IN THE ESPCP. THE DRAINAGE AREA AND SEDIMENT STORAGE VOLUME SHALL BE PROVIDED IN THE SEDIMENT STORAGE TABLE. REFER TO THE LATEST EDITION OF GSWCC'S "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON TEMPORARY SEDIMENT TRAPS.

7. ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF THE TEMPORARY SEDIMENT TRAP ARE TO BE INCLUDED IN THE RESPECTIVE OVERALL BID PRICE OF EACH TEMPORARY SEDIMENT TRAP.

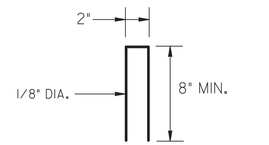
8. TEMPORARY SEDIMENT TRAPS SHALL NOT BE PLACED WITHIN FLOWING STREAMS OR IN A TIDAL AREA BELOW HIGH TIDE.

PAY ITEMS:

163-0535 CONSTRUCT AND REMOVE TEMPORARY SEDIMENT TRAP, STA NO- (EA)
165-0107 MAINTENANCE OF TEMPORARY SEDIMENT TRAP, STA NO- (EA)

EMERGENCY SPILLWAY WIDTH (Ws)

Q_{10} (CFS)	≤20	20<Q≤24	25<Q≤29	30<Q≤33	34<Q<38
Ws (FT)	8	10	12	14	16



METAL FILTER FABRIC STAPLE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

ROCK OUTLET TEMPORARY SEDIMENT TRAP

NO SCALE 4-22-2016

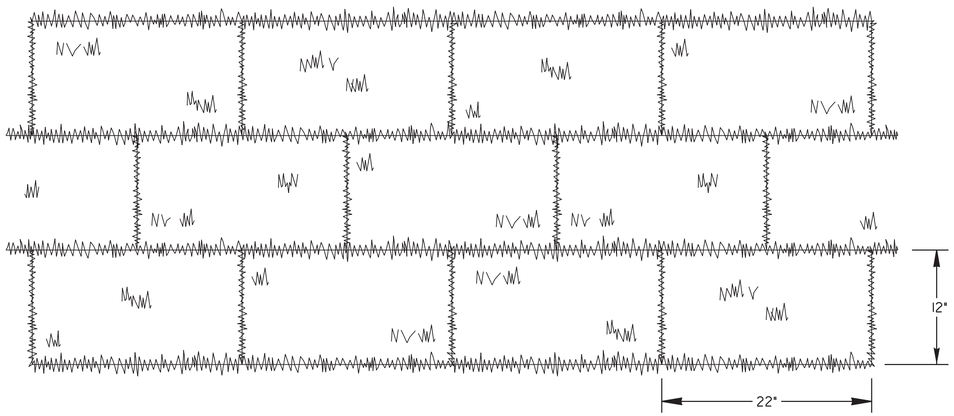
DATE | REVISION | BY

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-53

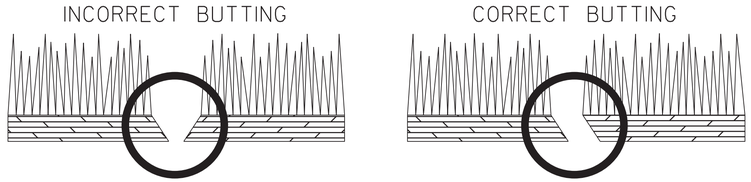
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

SOD LAYOUT

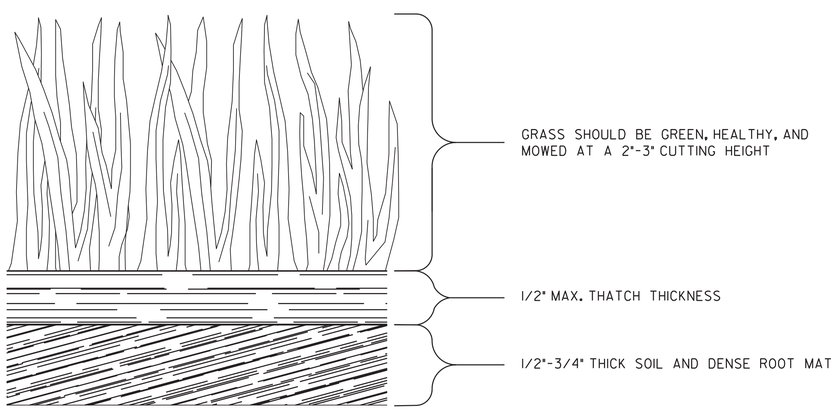


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52' LONG ROLLS.

ABUTTING SOD



SOD APPEARANCE



GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52'L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM:
700-9300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SOD INSTALLATION

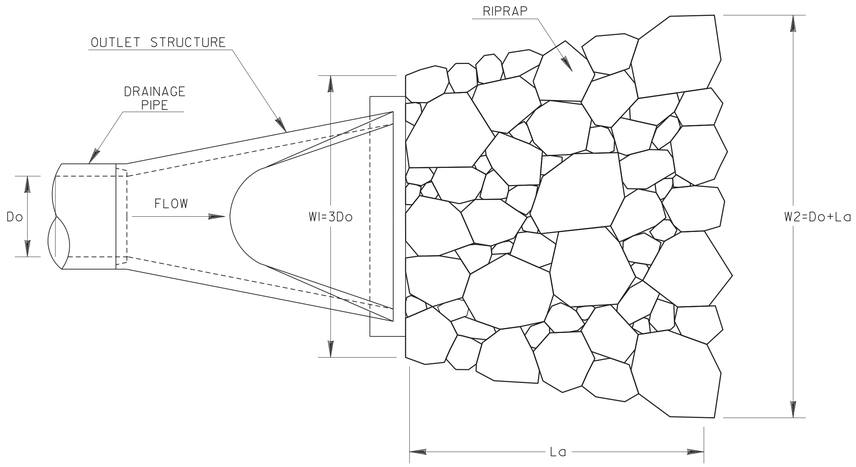
NO SCALE 4-22-2016

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

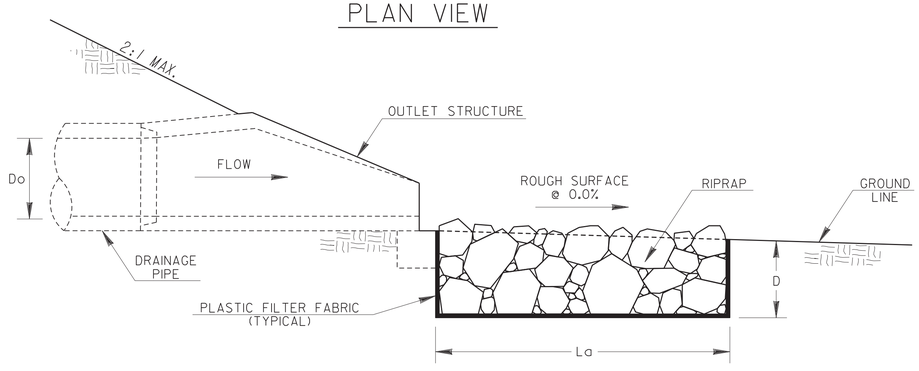
NUMBER D-54

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

OUTLET TO FLAT AREA

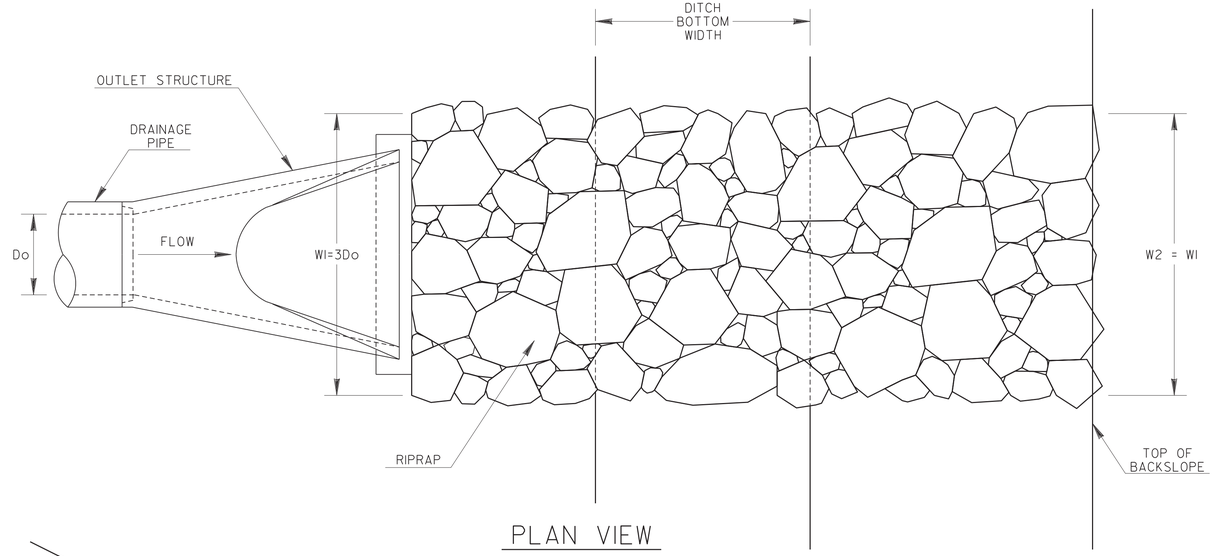


PLAN VIEW

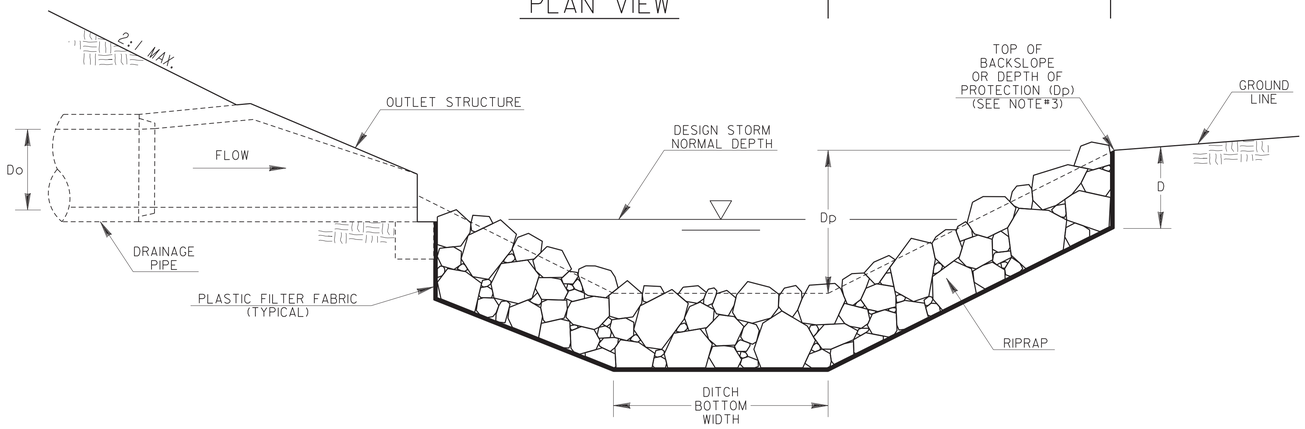


PROFILE VIEW

OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
   THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (WI), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL.
   THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La = APRON LENGTH
WI = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 1 OF 2)

NO SCALE 4-22-2016

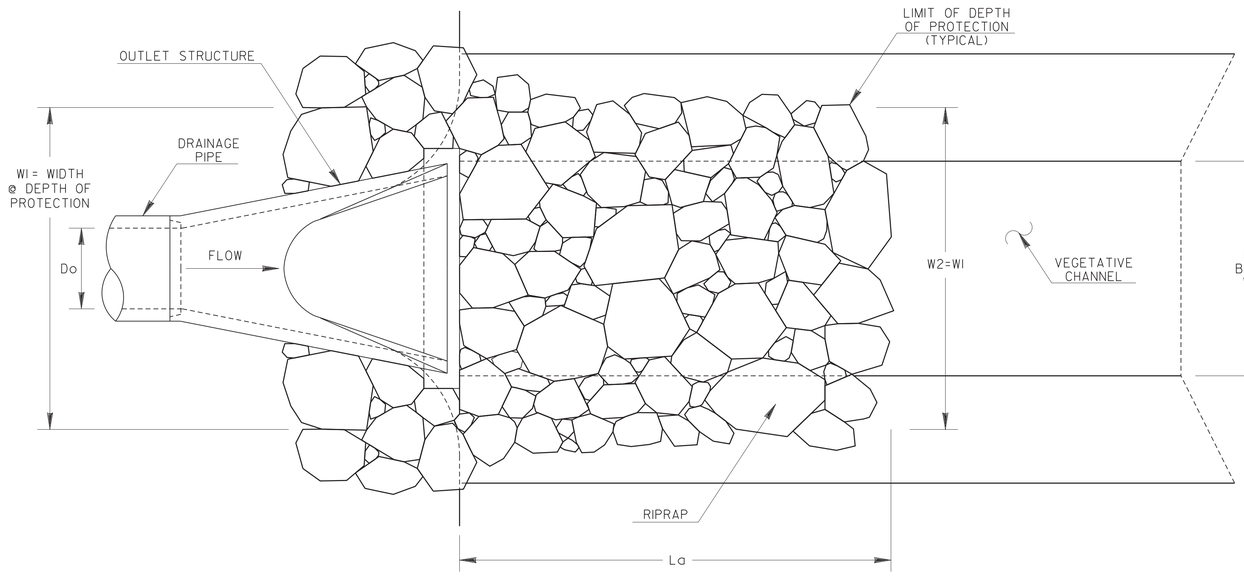
DATE | REVISION | BY

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER
D-55A

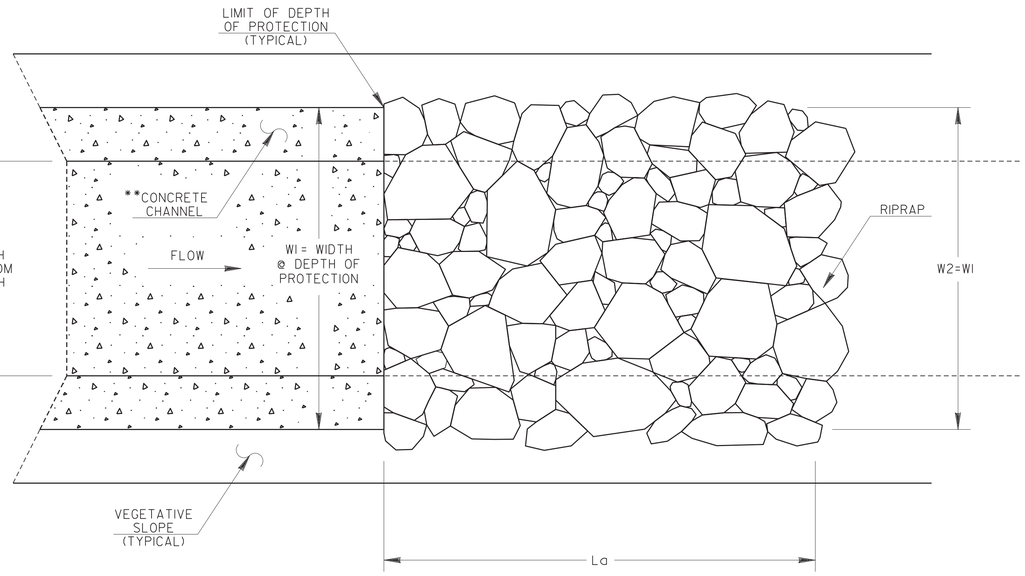
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

OUTLET PARALLEL TO WELL-DEFINED CHANNEL



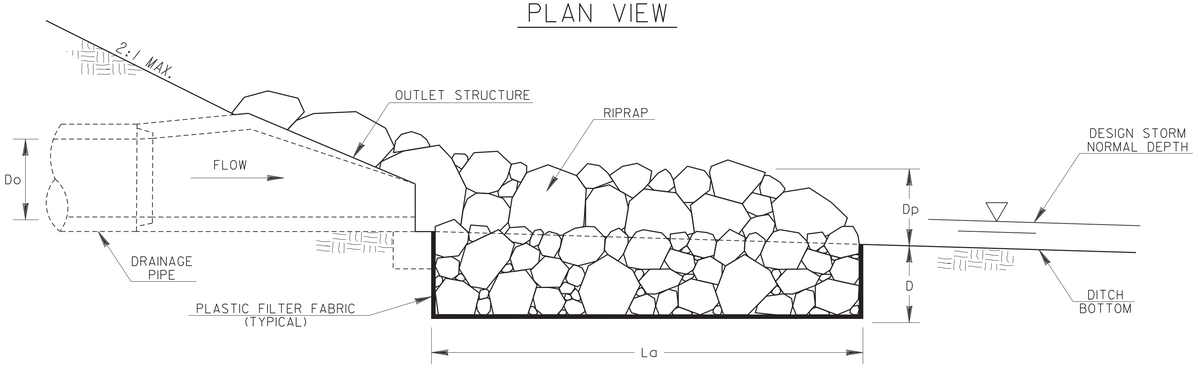
PLAN VIEW

CONCRETE CHANNEL TO RIPRAP TRANSITION

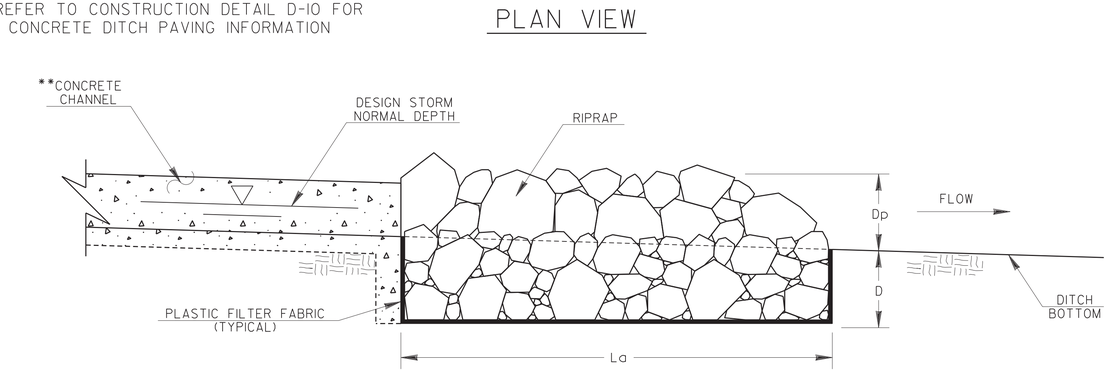


**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION

PLAN VIEW



PROFILE VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
   THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (WI), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
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6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
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D = INSTALLATION DEPTH
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RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
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3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 2 OF 2)

NO SCALE — 4-22-2016

DATE | REVISION | BY

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER
D-55B