

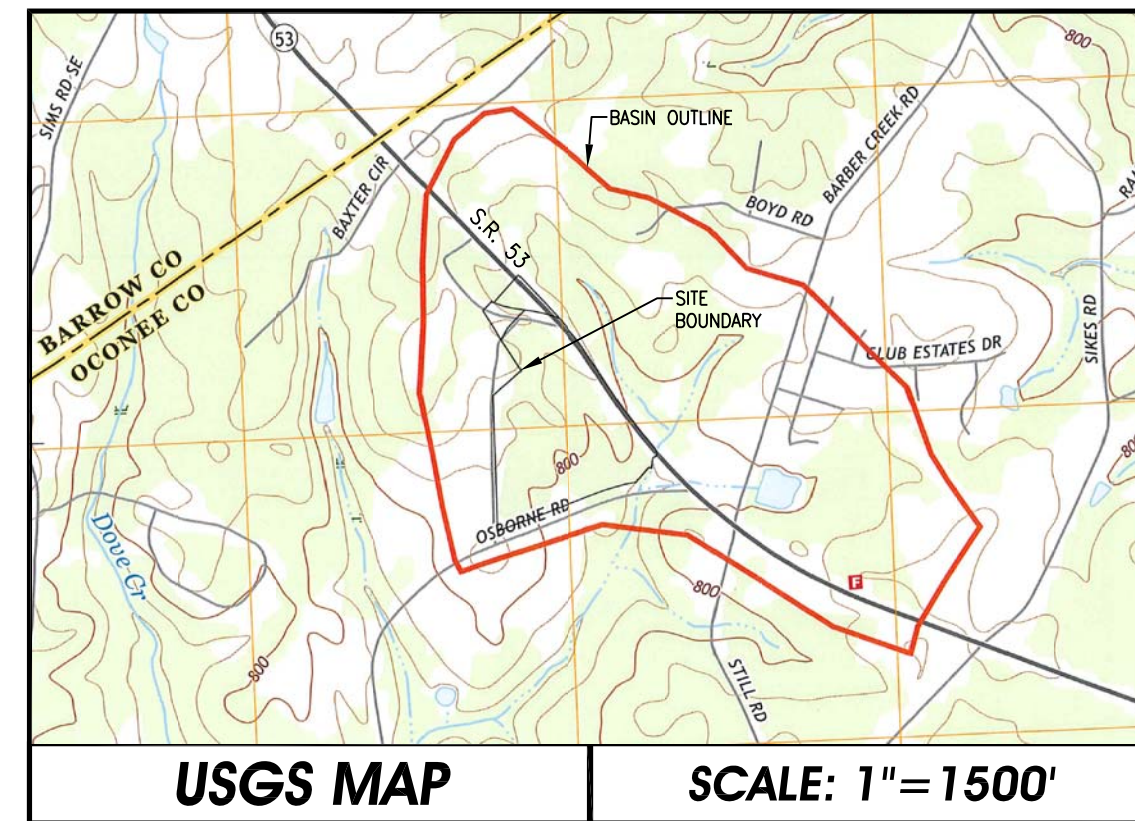
SITE CONSTRUCTION PLANS

FOR DOVE CREEK SCHOOL R/W IMPROVEMENTS

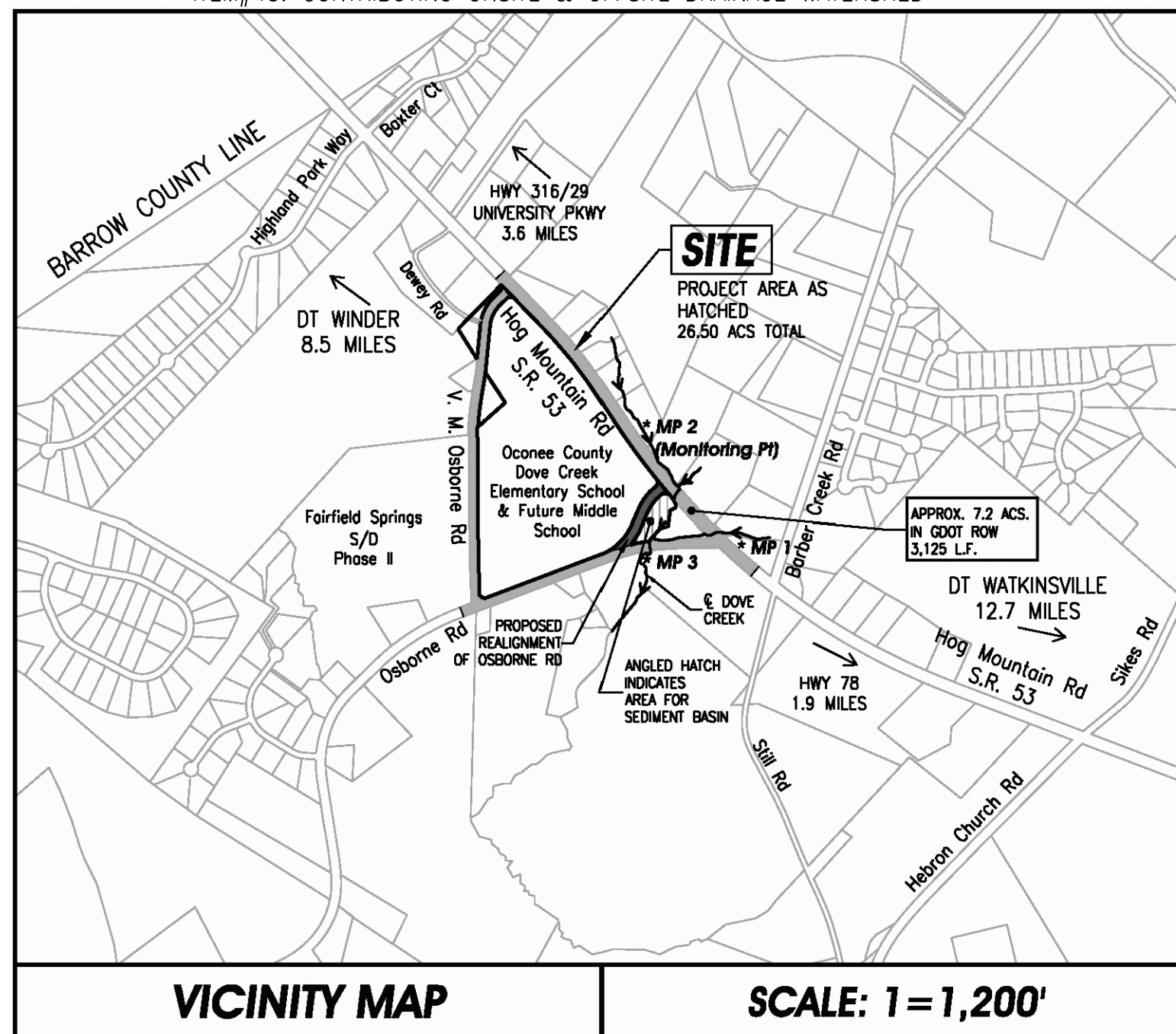
7921 HOG MOUNTAIN ROAD / STATE ROUTE 53
STATHAM, GA 30666 OCONEE COUNTY, GA

± 26.50 ACRE SITE
13.0 ACRES DISTURBED
2.90 ACRES DISTURBED IN GDOT ROW
± 3,125 L.F. S.R. 53 IMPACTED

± 2,300 L.F. FRONTAGE ALONG S.R. 53 FOR SCHOOL PROPERTY



ITEM#43: CONTRIBUTING ONSITE & OFFSITE DRAINAGE WATERSHED



VICINITY MAP

SCALE: 1"=1,200'

GEORGIA D.O.T. NOTES:

THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION. (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHERS STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM. (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRESS TO DOT SPECIFICATIONS ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLANS, OR CURRENT M.U.T.C.D. GUIDELINES.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSSED, NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATIONS
1 1/4" _____ 9.5MM SUPERPAVE
2" _____ 19MM SUPERPAVE
8" _____ 25MM SUPERPAVE
12" _____ GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

ALL WORK PERFORMED WITHIN GDOT R/W SHALL CONFORM TO GDOT STANDARDS AND DETAILS.

OWNER / DEVELOPER / CONTRACTOR/PRIMARY PERMITEE:
OCONEE COUNTY PUBLIC WORKS DEPARTMENT
CONTACT: MR. EMIL BESHARA, PE
ADDRESS: 1291 GREENSBORO HWY.
ADDRESS: WATKINSVILLE, GA 30677
PHONE: 706-769-2937

24 HOUR CONTACT:
CONTACT: MR. EMIL BESHARA, PE
ADDRESS: 1291 GREENSBORO HWY.
ADDRESS: WATKINSVILLE, GA 30677
CELL PHONE: 706-540-1725
FAX: 706-769-2939

MS4 NOTE:
THIS SITE IS LOCATED OUTSIDE THE MS4 AREA IN OCONEE COUNTY.

GDOT UTILITY NOTES:
1. UTILITY RELOCATIONS MUST BE PERMITTED THROUGH THE GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
2. ALL UTILITIES RELOCATED OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE UTILITY MANUAL, CURRENT EDITION.
3. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
4. UTILITY OWNERS MUST PROVIDE THE GDOT ACCESS/ENCHROACHMENT PERMIT NUMBER TO ANY GUPS PERMITS AS PART OF THE WORK DESCRIPTION.
5. ALL NEW OR RELOCATED UTILITY POLES, GUYS & ANCHORS SHALL MEET CLEAR ZONE REQUIREMENTS.

UTILITY OWNERS:
-WATER LINE: OCONEE COUNTY UTILITY DEPT.
-OVERHEAD POWER: WALTON EMC/GA. POWER
-GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
-TELECOM/DATA: AT&T
-TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS

GENERAL UTILITY NOTE:
LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GRADING & PIPE INSTALLING, TYP. FOLLOW ALL REQUIREMENTS FOR CALLING 811 & GDOT NOTIFICATION/GDOR.

NPDES CERTIFICATION

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 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 accepted to meet the requirements contained in the General NPDES Permit No. GAR 100002."

ACKNOWLEDGEMENT

Abe Abouhmdan
Owner/Contractor or Authorized Representative

Construction of this project will involve Land Disturbance equal to, or greater than, 1 acre, or is a part of a common development requiring an NPDES Permit, and must comply with the National Pollutant Discharge Elimination System (NPDES) Permit for construction activities (General Permit No. GAR 100002). The owner/contractor or authorized representative shall be responsible for the preparation of the necessary Notice of Intent (NOI) and appropriate erosion, sediment and pollution control plan requirements that comply with all aspects of the NPDES Permit for construction activities.

ACKNOWLEDGEMENT

Abe Abouhmdan
Owner / Contractor or Authorized Representative

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I, ABE ABOUHMDAN, HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN AND HAVE VERIFIED THE PRESENCE OR LACK THEREOF OF ALL STATE WATERS ON OR ADJACENT TO THE SITE.
SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-19-18

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.
SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-19-18

THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL NUMBER #000010490
SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-19-18



Know what's below.
Call before you dig.

COLORS FOR UTILITY LOCATING:
White = Prop. Excavation
Pink = Temp. Survey Markings
Red = Electric
Yellow = Gas/Oil
Orange = Phone/Cable
Blue = Water
Purple = Reclaimed Water
Green = Sewer



COMPREHENSIVE ENGINEERING SERVICES
CIVIL ENGINEERING
LAND SURVEYING
LAND PLANNING
CONSTRUCTION STAKING
LANDSCAPE ARCHITECTURE
SOIL MAPPING & SEPTIC SYSTEMS
WETLAND & ENVIRONMENTAL MONITORING

2410 HOG MOUNTAIN ROAD
SUITE 103
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abe@abeconsultinginc.com
www.abeconsultinginc.com

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DOVE CREEK SCHOOL R/W IMPROVEMENTS

7921 HOG MOUNTAIN RD.
STATE ROUTE 53
STATHAM, GA 30666
OCONEE COUNTY, GA
224th GMD
GDOT DISTRICT# 1

COVER

ISSUED FOR BIDDING



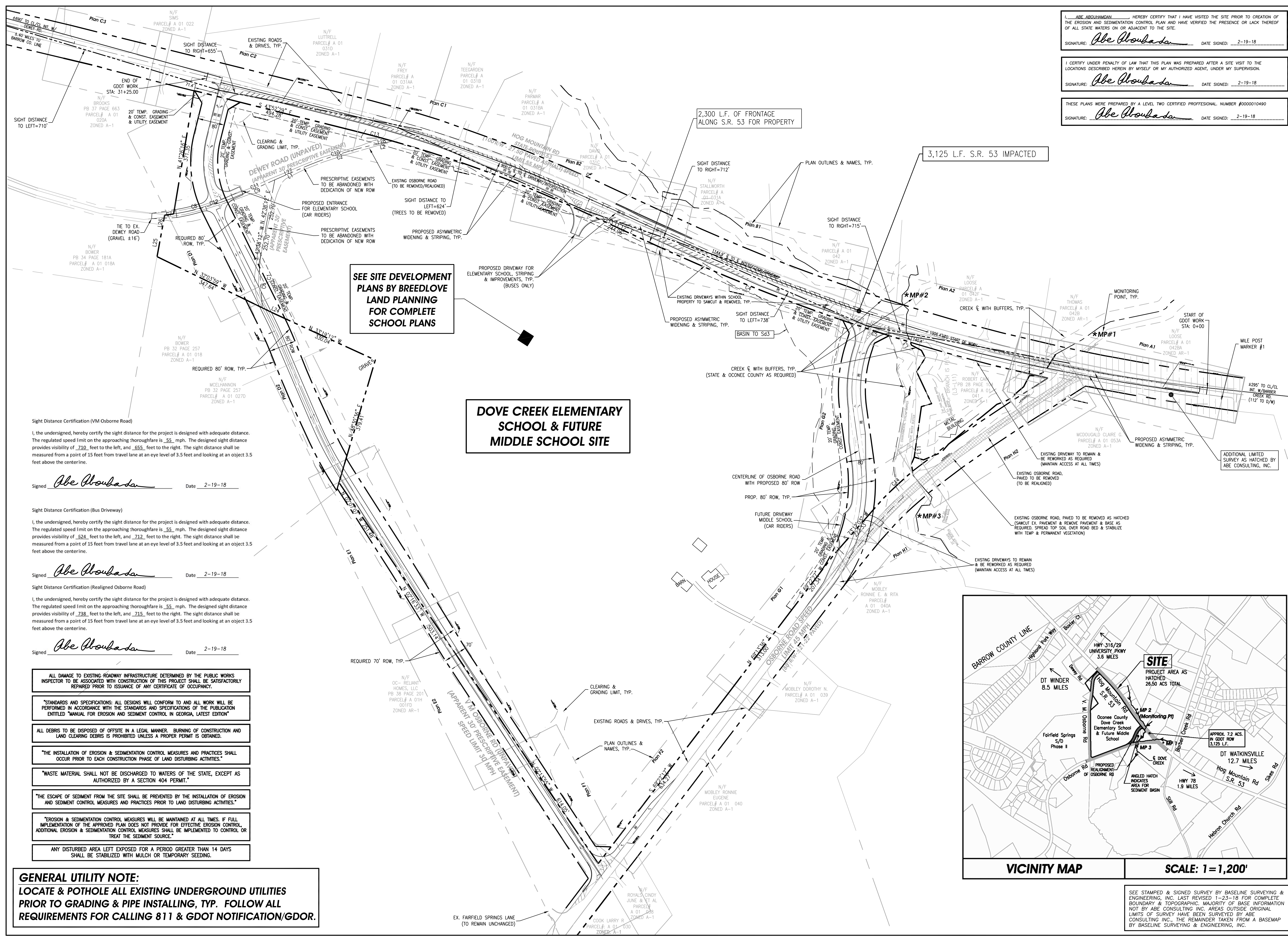
REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48

SHEET #
1
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Page #	Y/N	
1	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.
1	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
1	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
1	Y	4 Provide the name, address and phone number of primary permittee.
1	Y	5 Note total and disturbed acreage of the project or phase under construction.
20	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
1	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
1	Y	8 Description of the nature of construction activity.
1	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
14-40	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.
1	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 page 15 of the permit.
1	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 page 15 of the permit."
1	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 29 of permit as applicable."
43	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 in accordance with Part IV A.5 within 7 days after installation."
43	Y	15 Clearly note the statement that "Non-erosion activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded 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."
43	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
38&43	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."
38&43	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."
38&43	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."
38&43	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."
38&43	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 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	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."
42	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."
42	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
42&43	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."
43	Y	27 Description of the practices that will be used to reduce the pollutants in storm water discharges."
43	Y	28 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)
43	Y	29 Provide complete requirements of inspections and record keeping by the primary permittee."
43	Y	30 Provide complete requirements of sampling frequency and reporting of sampling results."
43	Y	31 Provide complete details for retention of records as per Part IV.F. of the permit."
43	Y	32 Description of analytical methods to be used to collect and analyze the samples from each location."
43	Y	33 Appendix B rationale for NTU values at all outfall sampling points where applicable."
1&4	Y	34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable."
14-43 & 59	Y	35 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."
2,3-40	Y	36 Graphic scale and North arrow.
2,3-40	Y	37 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' Contour Profile
N/A	N	38 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.gasoc.org
N/A	N	39 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."
3,4-40	Y	40 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.
N/A	N	41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
43	Y	42 Delineation and acreage of contributing drainage basins on the project site.
1,8-40	Y	43 Delineate on-site drainage and off-site watersheds using USGS 1" = 2000' topographical sheets.
32-40 & 59	Y	44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
2,6,8-59	Y	45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points.
14-40	Y	46 Soil series for the project site and their delineation.
14-40	Y	47 The limits of disturbance for each phase of construction.
17,21 & 43	Y	48 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 feasible, a written justification explaining this decision must be included in the plan.
14-43	Y	49 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.
14-43	Y	50 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.
43	Y	51 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 Effective January 1, 2018



SEE SITE DEVELOPMENT PLANS BY BREEDLOVE LAND PLANNING FOR COMPLETE SCHOOL PLANS

DOVE CREEK ELEMENTARY SCHOOL & FUTURE MIDDLE SCHOOL SITE

ABE ABDUJAMAN HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN AND HAVE VERIFIED THE PRESENCE OR LACK THEREOF OF ALL STATE WATERS ON OR ADJACENT TO THE SITE.
 SIGNATURE: *Abe Aboubada* DATE SIGNED: 2-19-18

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.
 SIGNATURE: *Abe Aboubada* DATE SIGNED: 2-19-18

THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL, NUMBER #000010490
 SIGNATURE: *Abe Aboubada* DATE SIGNED: 2-19-18

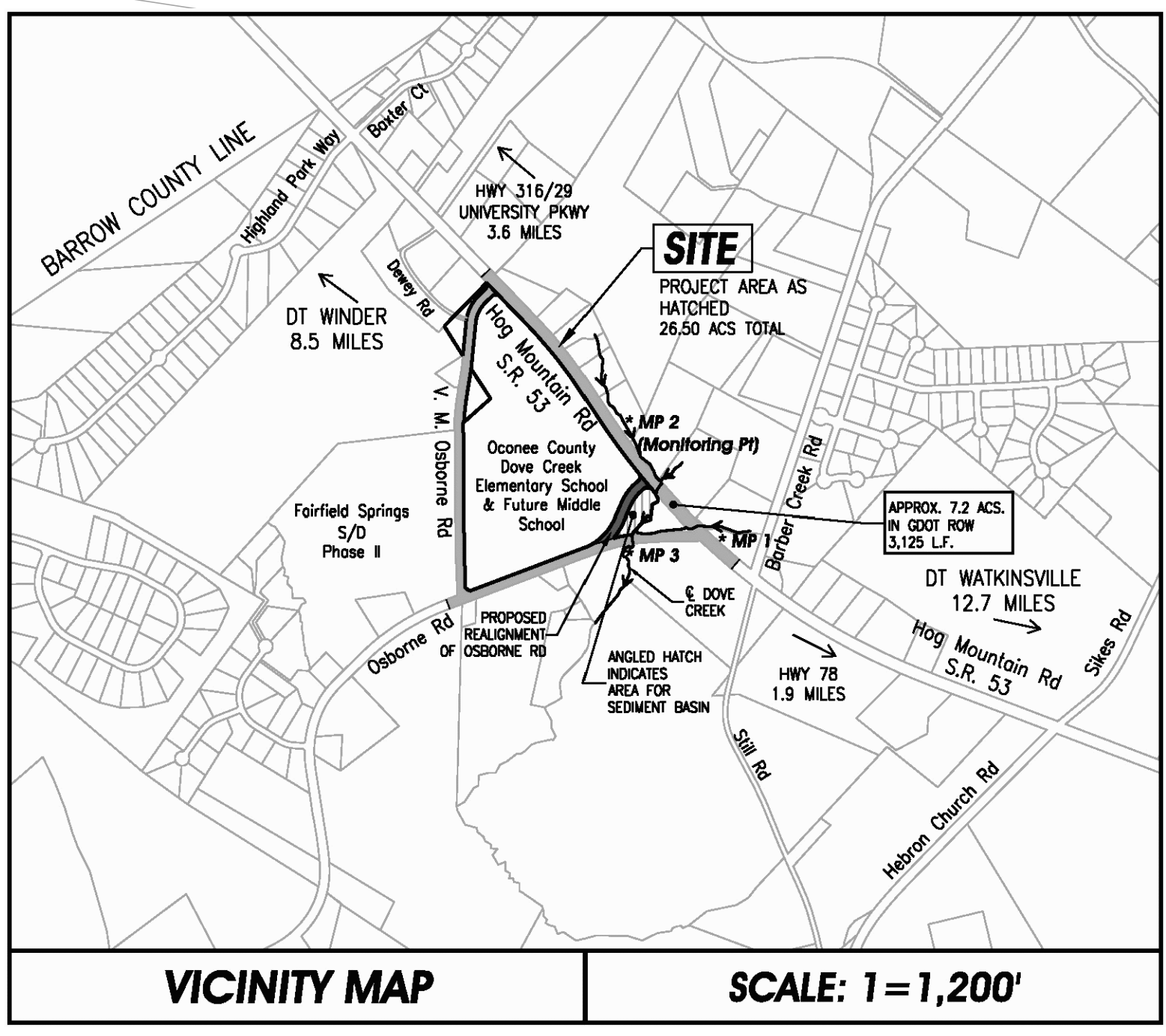
Sight Distance Certification (VM Osborne Road)
 I, the undersigned, hereby certify the sight distance for the project is designed with adequate distance. The regulated speed limit on the approaching thoroughfare is 55 mph. The designed sight distance provides visibility of 710 feet to the left, and 655 feet to the right. The sight distance shall be measured from a point of 15 feet from travel lane at an eye level of 3.5 feet and looking at an object 3.5 feet above the centerline.
 Signed *Abe Aboubada* Date 2-19-18

Sight Distance Certification (Bus Driveway)
 I, the undersigned, hereby certify the sight distance for the project is designed with adequate distance. The regulated speed limit on the approaching thoroughfare is 55 mph. The designed sight distance provides visibility of 524 feet to the left, and 712 feet to the right. The sight distance shall be measured from a point of 15 feet from travel lane at an eye level of 3.5 feet and looking at an object 3.5 feet above the centerline.
 Signed *Abe Aboubada* Date 2-19-18

Sight Distance Certification (Realigned Osborne Road)
 I, the undersigned, hereby certify the sight distance for the project is designed with adequate distance. The regulated speed limit on the approaching thoroughfare is 55 mph. The designed sight distance provides visibility of 738 feet to the left, and 715 feet to the right. The sight distance shall be measured from a point of 15 feet from travel lane at an eye level of 3.5 feet and looking at an object 3.5 feet above the centerline.
 Signed *Abe Aboubada* Date 2-19-18

- ALL DAMAGE TO EXISTING ROADWAY INFRASTRUCTURE DETERMINED BY THE PUBLIC WORKS INSPECTOR TO BE ASSOCIATED WITH CONSTRUCTION OF THIS PROJECT SHALL BE SATISFACTORILY REPAIRED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
- STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION"
- ALL DEBRIS TO BE DISPOSED OF OFFSITE IN A LEGAL MANNER. BURNING OF CONSTRUCTION AND LAND CLEARING DEBRIS IS PROHIBITED UNLESS A PROPER PERMIT IS OBTAINED.
- THE INSTALLATION OF EROSION & SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO EACH CONSTRUCTION PHASE OF LAND DISTURBING ACTIVITIES.
- WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION & SEDIMENTATION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

GENERAL UTILITY NOTE:
 LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GRADING & PIPE INSTALLING, TYP. FOLLOW ALL REQUIREMENTS FOR CALLING 811 & GDOT NOTIFICATION/GDOR.



ABE CONSULTING INC.
 COMPREHENSIVE ENGINEERING SERVICES
 CIVIL ENGINEERING
 LAND SURVEYING
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DOVE CREEK SCHOOL R/W IMPROVEMENTS

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 STATE ROUTE 53
 STATHAM, GA 30666
 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

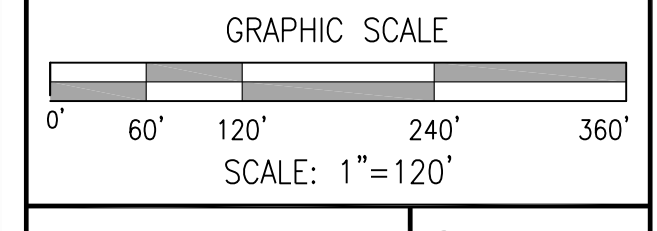
OVERALL SITE PLAN W/ ES&PC ITEMS, DEMO PLAN

ISSUED FOR BIDDING

Abe Aboubada
 REGISTERED PROFESSIONAL ENGINEER
 NO. 23652
 JEREMAS M. ABDUJAMAN
 3-15-18

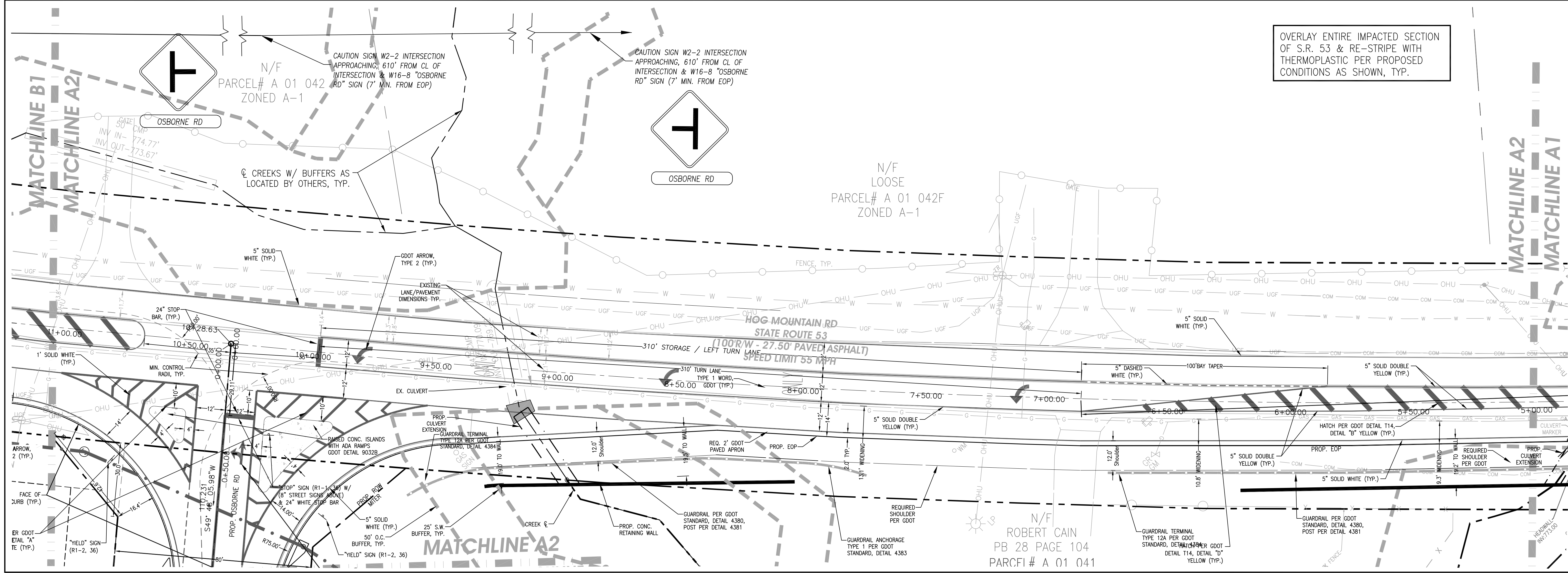
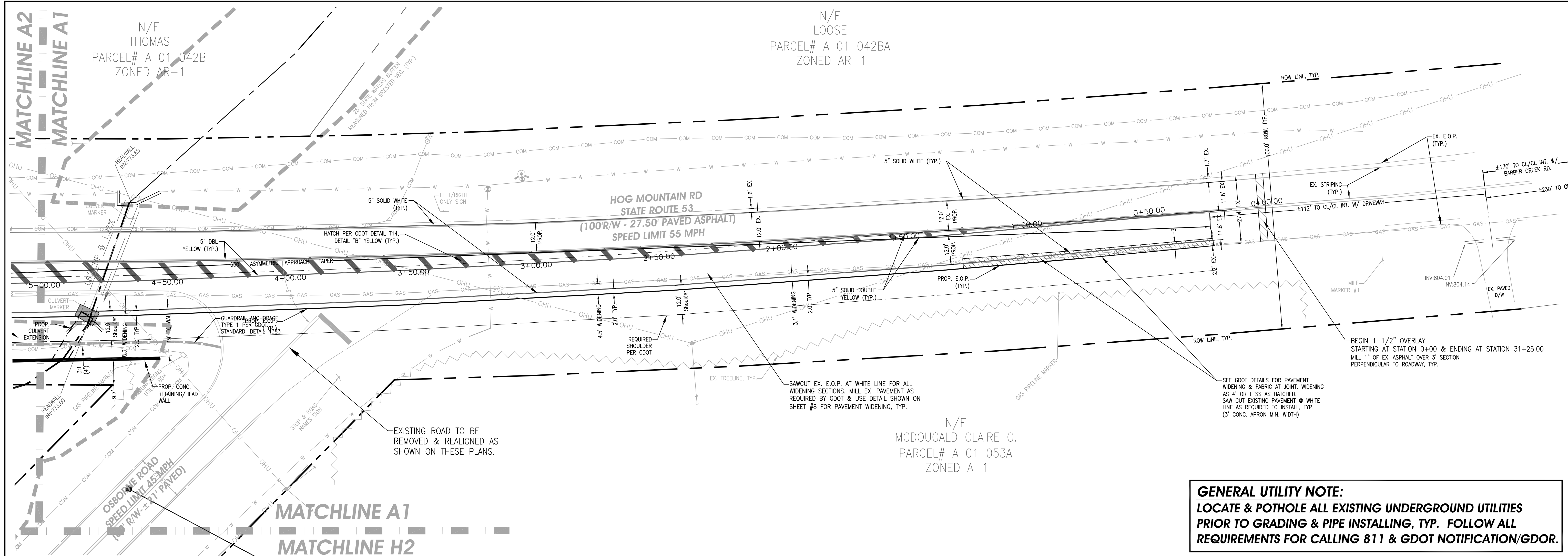
REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
 PROJECT #: 17-021-48



SHEET #
 4
 62

SEE STAMPED & SIGNED SURVEY BY BASELINE SURVEYING & ENGINEERING, INC. LAST REVISED 1-23-18 FOR COMPLETE BOUNDARY & TOPOGRAPHIC INFORMATION. MAJORITY OF BASE INFORMATION NOT BY ABE CONSULTING INC. AREAS OUTSIDE ORIGINAL LIMITS OF SURVEY HAVE BEEN SURVEYED BY ABE CONSULTING INC., THE REMAINDER TAKEN FROM A BASEMAP BY BASELINE SURVEYING & ENGINEERING, INC.



COMPREHENSIVE ENGINEERING SERVICES
CIVIL ENGINEERING
LAND SURVEYING
LAND PLANNING
CONSTRUCTION STAKING
LANDSCAPE ARCHITECTURE
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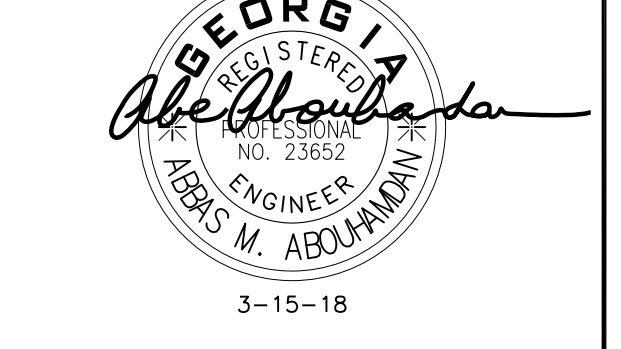
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WERE INTENDED. ANY CHANGES OR ALTERATIONS MADE TO
THESE CONSTRUCTION DRAWINGS WITHOUT THE WRITTEN
APPROVAL OF ABE CONSULTING, INC. VIOLATES THE SEAL SHOWN
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OCONEE COUNTY, GA
224th GMD
GDOT DISTRICT# 1

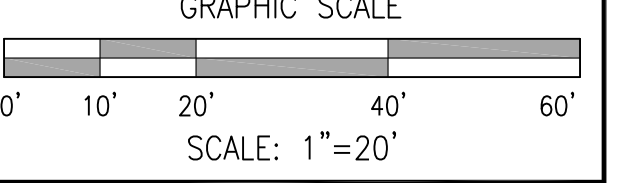
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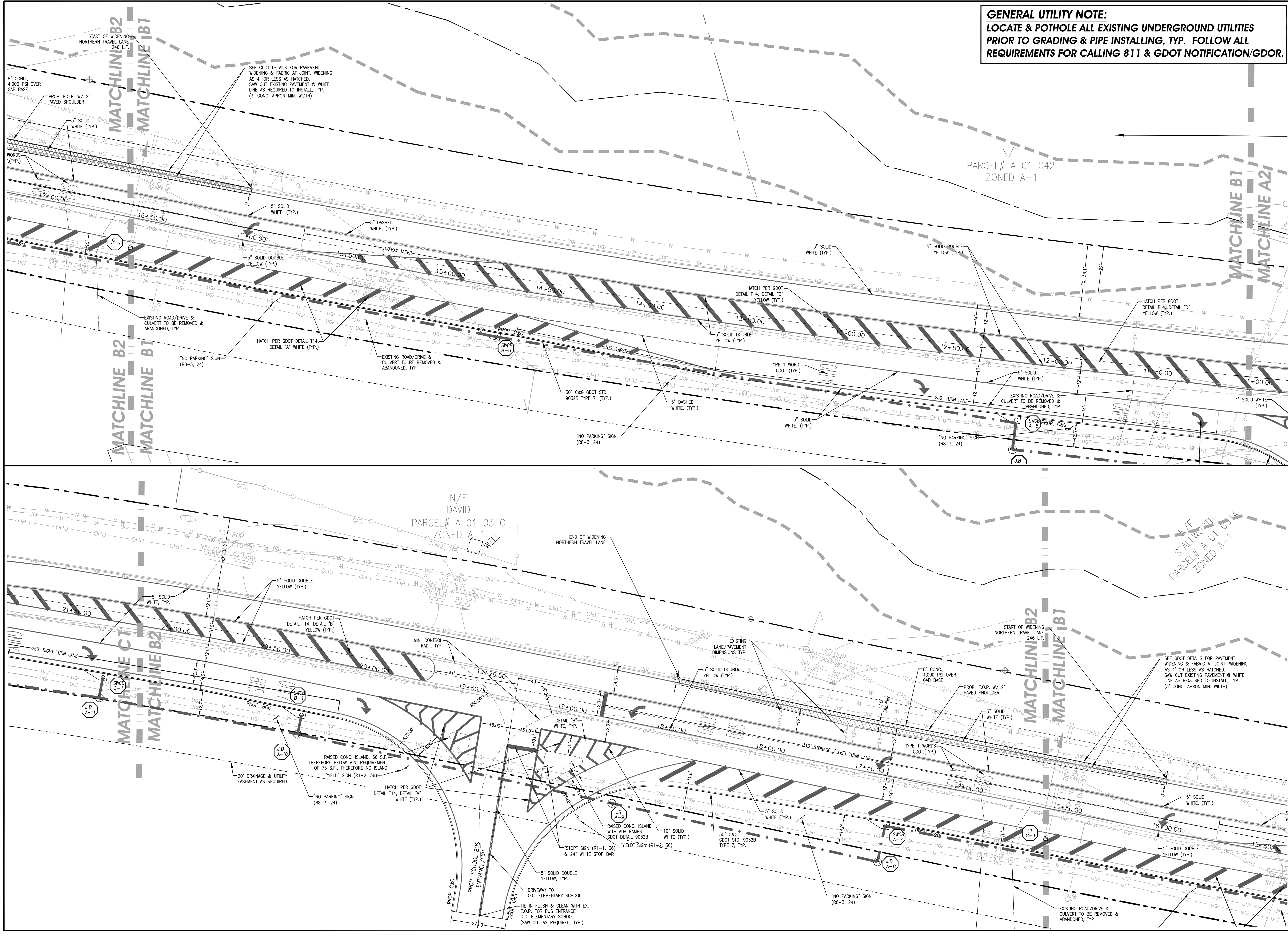
REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48



NORTH

SHEET #
5
62



GENERAL UTILITY NOTE:
 LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES
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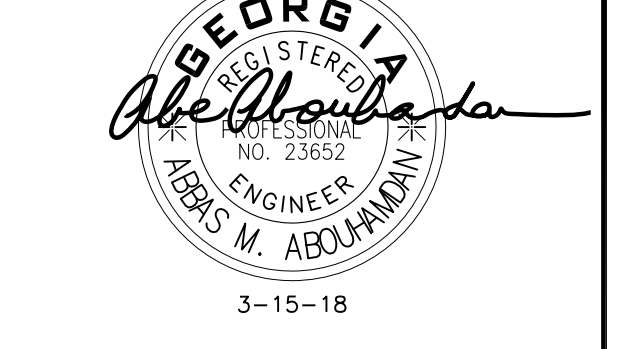
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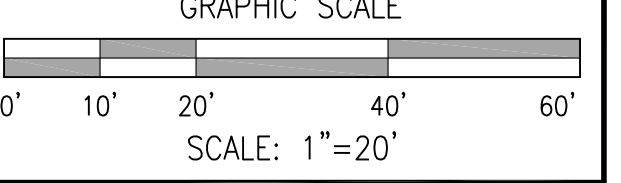
STRIPING PLAN B

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REVISIONS	DATE
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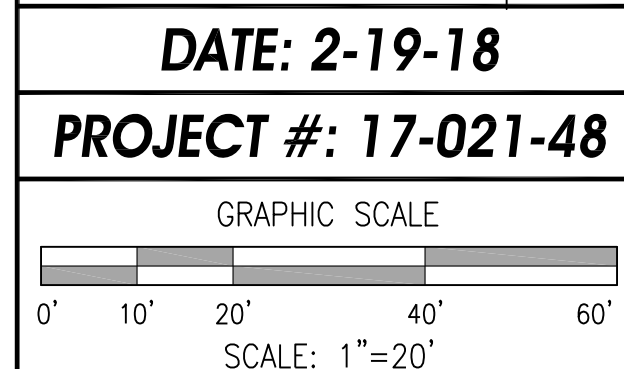
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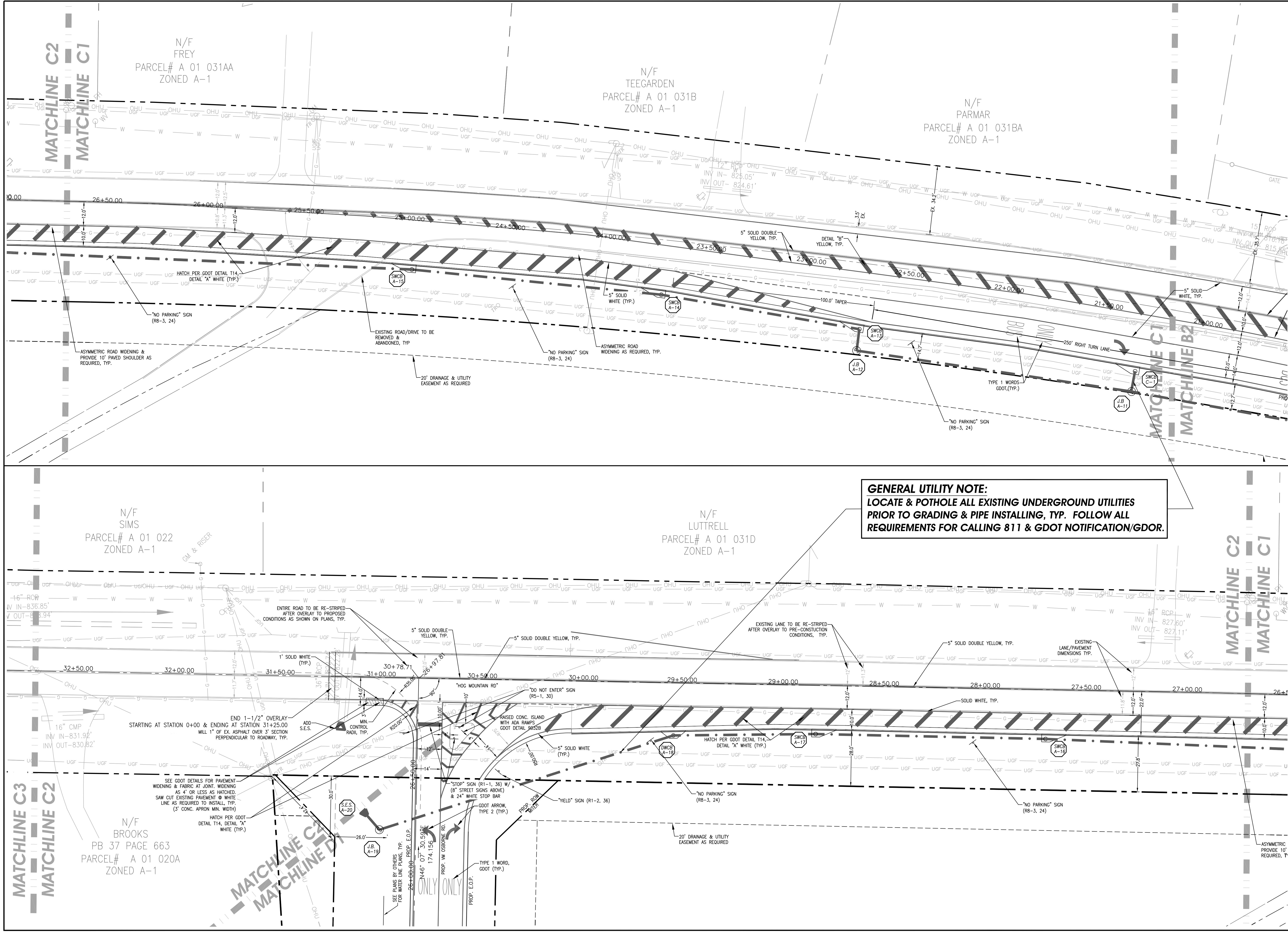


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DATE: 2-19-18
 PROJECT #: 17-021-48



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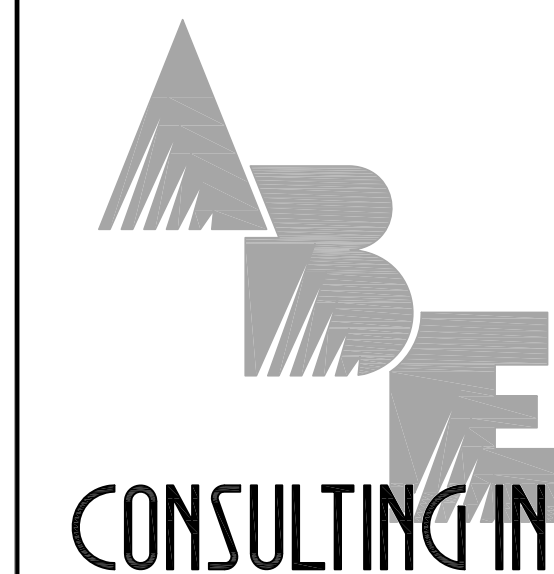
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N/F PARMAR
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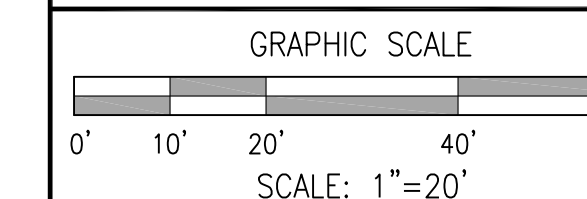


3-15-18

REVISIONS	DATE
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REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18

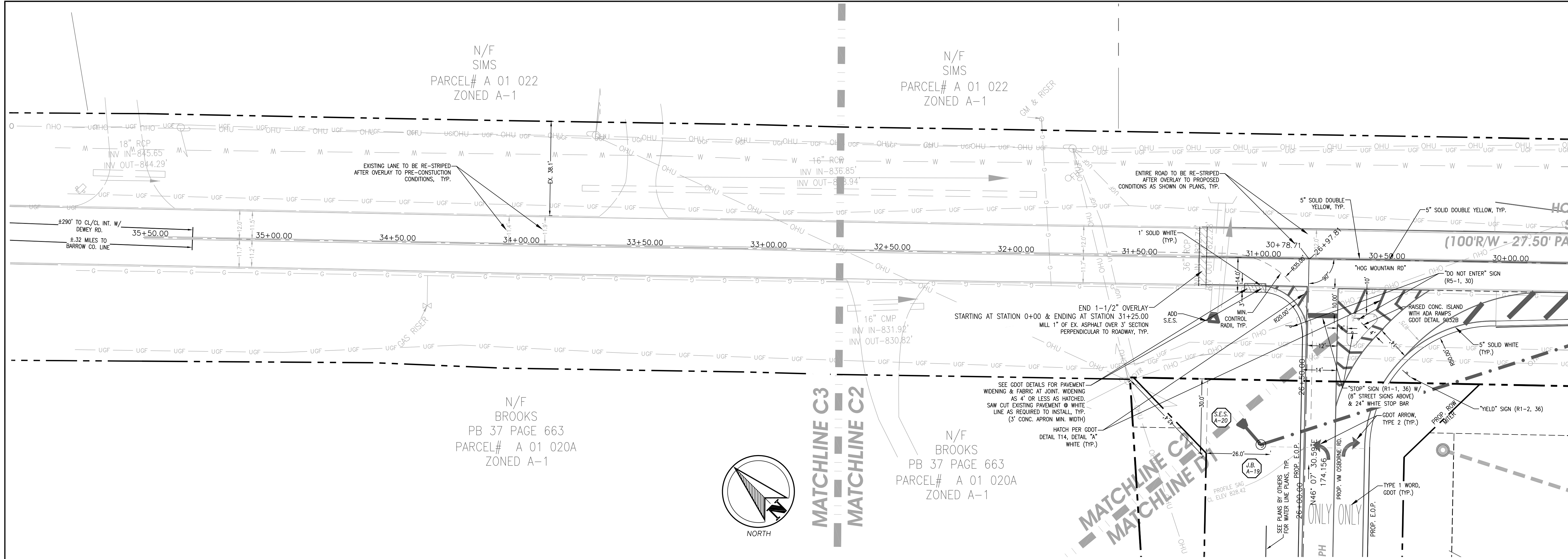
PROJECT #: 17-021-48



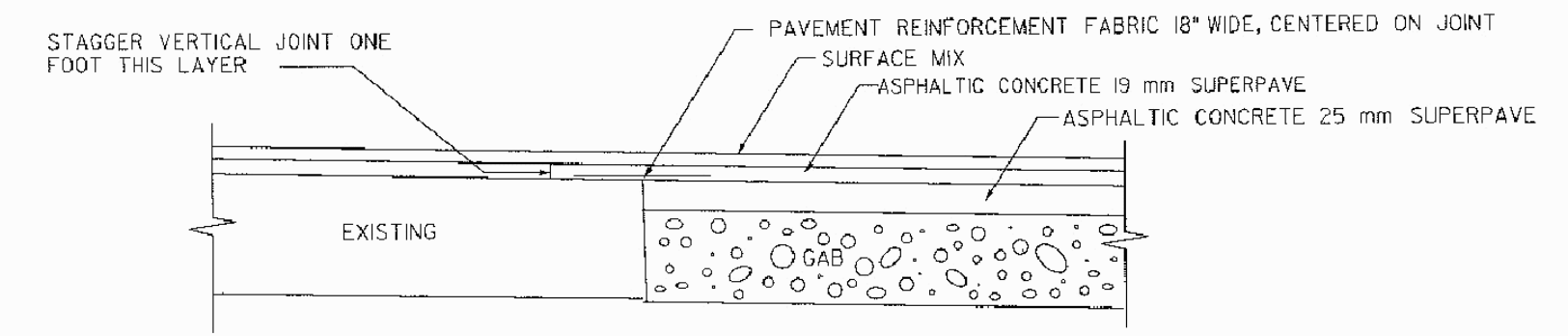
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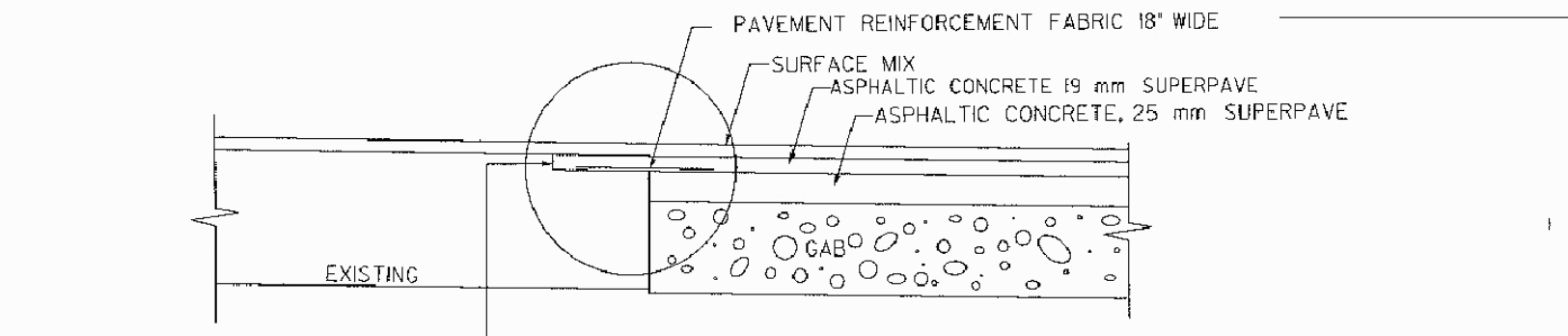
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TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE

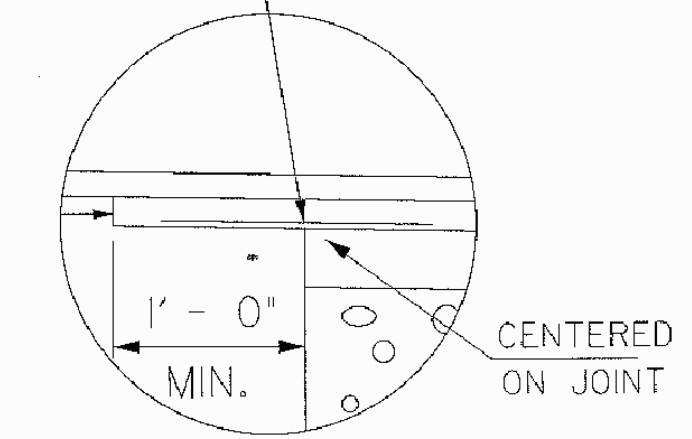


TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



MILL EXISTING LANE ONE FOOT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED. COST OF MILLING FOR THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT REINFORCING FABRIC.

TYPICAL PAVEMENT REINFORCEMENT FABRIC DETAIL N.T.S.



- GDOT UTILITY NOTES:**
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 2. ALL UTILITIES RELOCATED OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE UTILITY MANUAL, CURRENT EDITION.
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 4. UTILITY OWNERS MUST PROVIDE THE GDOT ACCESS/ENCHROACHMENT PERMIT NUMBER TO ANY GUPS PERMITS AS PART OF THE WORK DESCRIPTION.
 5. ALL NEW OR RELOCATED UTILITY POLES, GUYS & ANCHORS SHALL MEET CLEAR ZONE REQUIREMENTS.

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 - OVERHEAD POWER: WALTON EMC/GA. POWER
 - GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
 - TELECOM/DATA: AT&T
 - TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS

- ALL WORK WITHIN S.R. 53 TO BE COMPLETED TO GDOT STANDARDS, TYP.
- ALL TRAFFIC STRIPING WITHIN R/W SHALL BE SHALL BE THERMOPLASTIC.

GEORGIA D.O.T. NOTES

THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT OF WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION, (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM, (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391.3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRESS TO DOT SPECIFICATIONS ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSED. NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATIONS

1 1/4"	9.5 mm SUPERPAVE
2"	19 mm SUPERPAVE
3"	25 mm SUPERPAVE
12"	GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

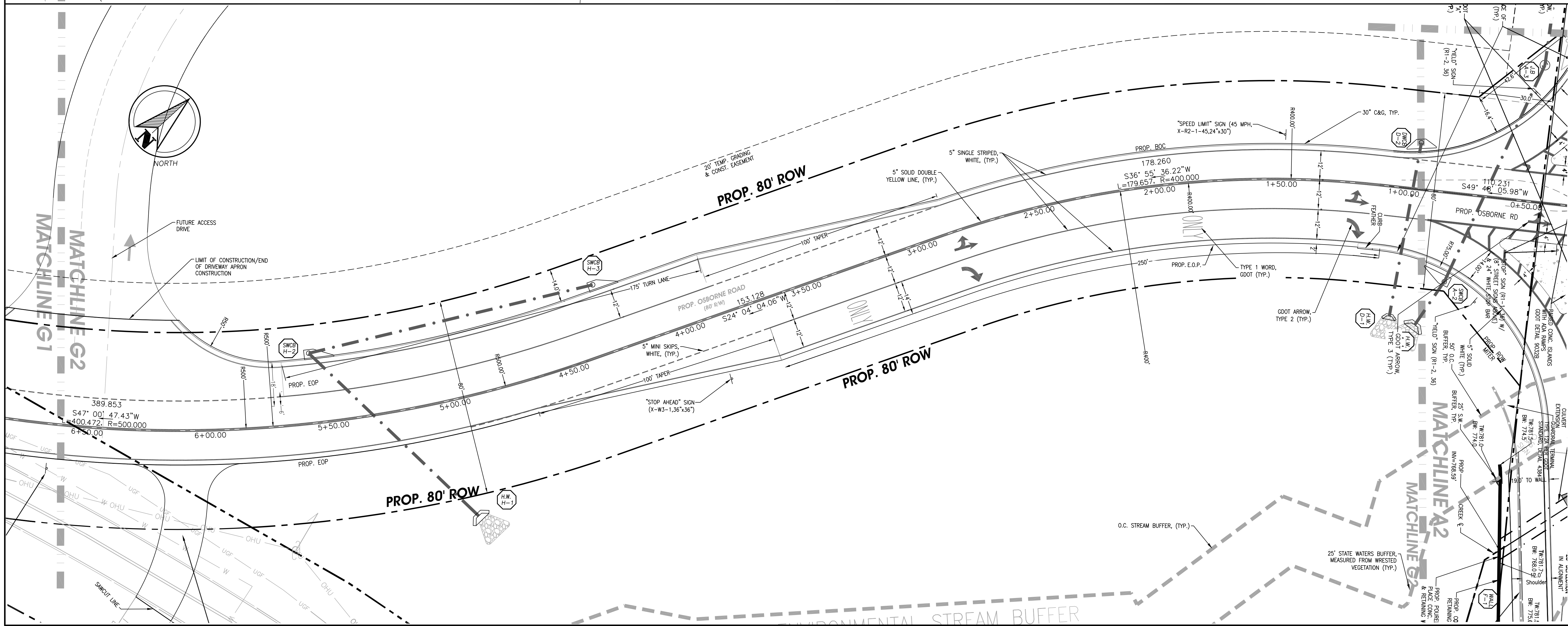
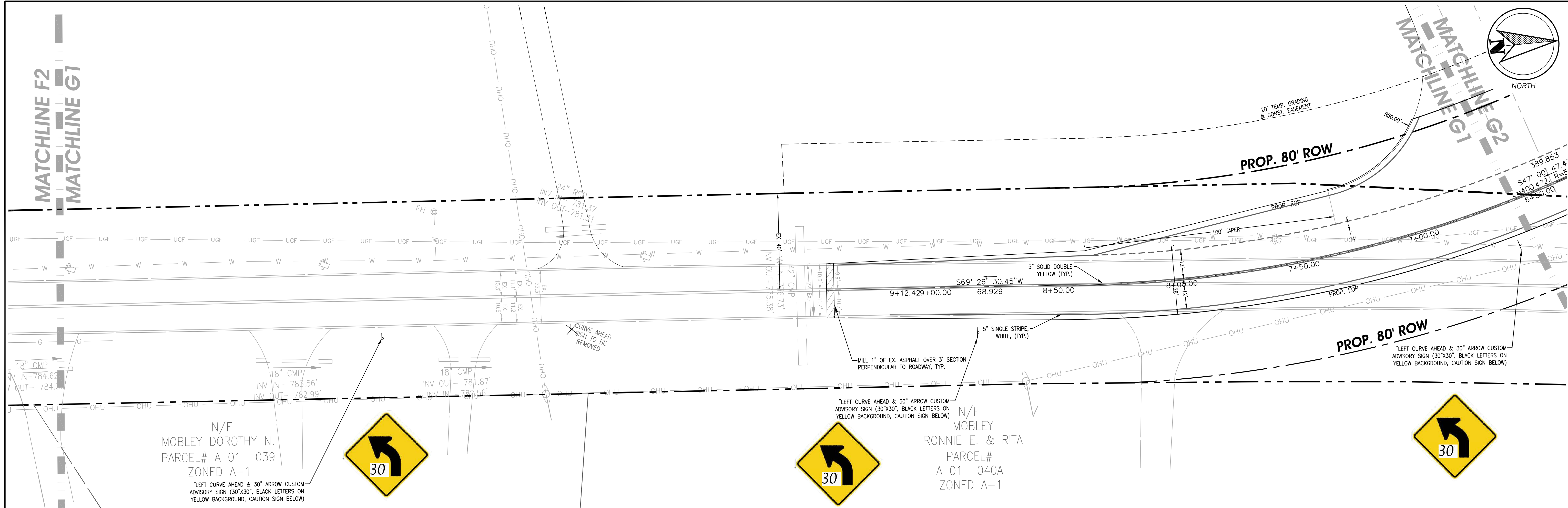
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THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.



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DOVE CREEK SCHOOL R/W IMPROVEMENTS

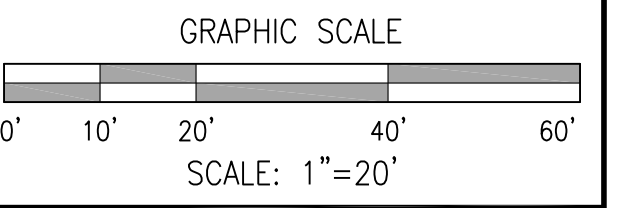
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STRIPING PLAN G

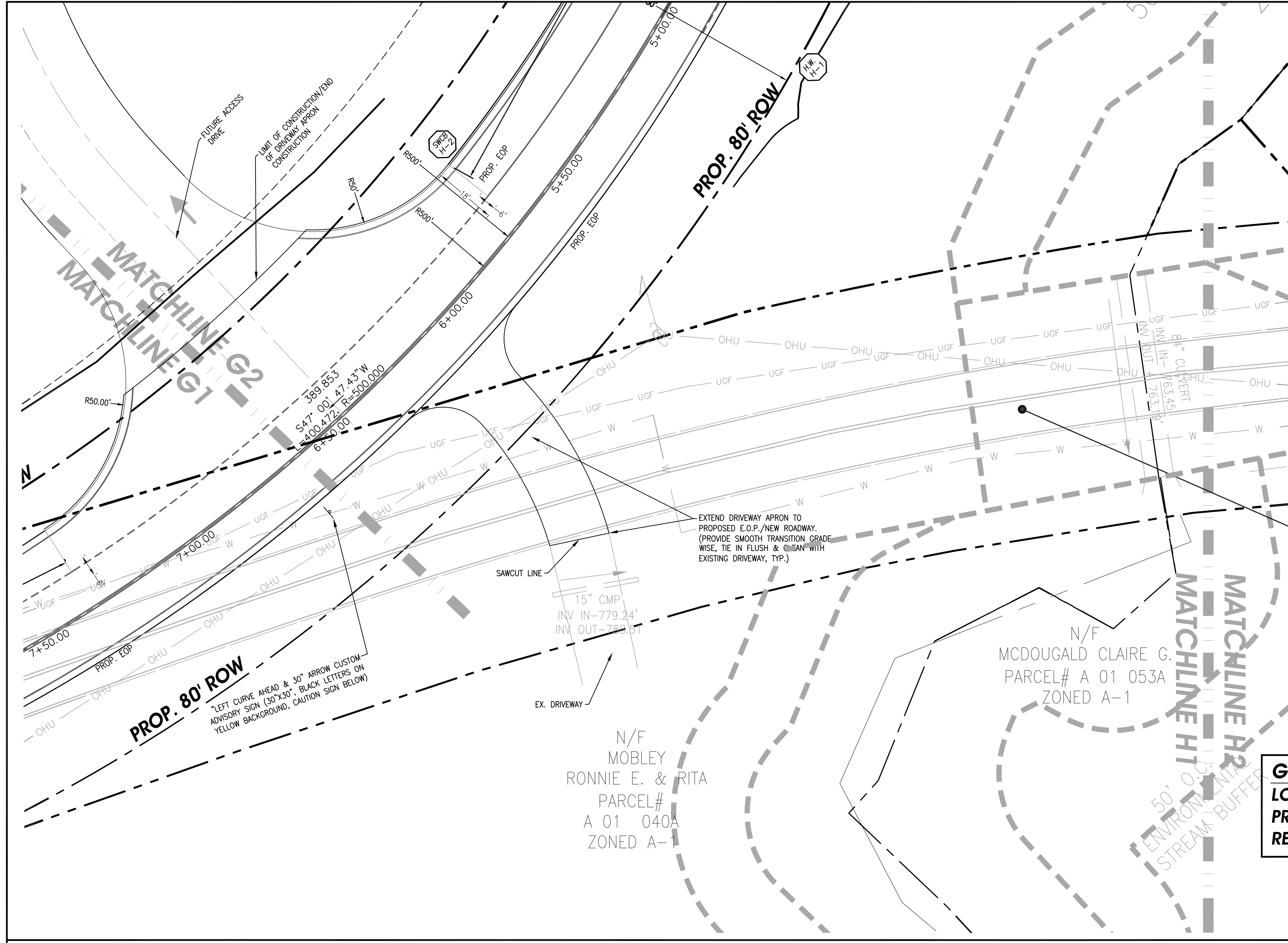
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LEGEND OF SURVEY ABBREVIATIONS/ SYMBOLS

A	ARC LENGTH	⊗	BACKFLOW PREVENTER
A/C	AIR CONDITIONER	⊕	BENCHMARK
AE	ACCESS EASEMENT	⊖	BOLLARD
ASPH	ASPHALT	⊗	BURIED CABLE POST
BC	BACK OF CURB	⊗	CATCH BASIN (SINGLE WING)
BLDG	BUILDING	⊗	CATCH BASIN (DOUBLE WING)
BSL	BUILDING SETBACK LINE	⊗	CHAIN LINK FENCE
CC	CALCULATED CORNER	⊗	DRAIN-YARD INLET AS LABELED
CL	CENTERLINE	⊗	ELECTRIC BOX
CMF	CONC. MONUMENT FOUND	⊗	ELECTRIC METER
CONC	CONCRETE	⊗	ELECTRIC OUTLET
COV	COVERED	⊗	GROUND LIGHT
CRFB	CAPPED REBAR FOUND	⊗	FIRE HYDRANT
CTF	CRIMP TOP PIPE FOUND	⊗	GAS LINE
DB	DEED BOOK	⊗	GAS VALVE
DE	DRAINAGE ESMT	⊗	GATE VALVE
EDA	EDGE OF ASPHALT	⊗	GUTTER
ENCL	ENCLOSED	⊗	GUYS/ANCHOR
ENCR	ENCROACHMENT	⊗	INLET
E/P	EDGE OF PAVEMENT	⊗	IRRIGATION BOX
ESMT	EASEMENT	⊗	IRRIGATION CONTROL VALVE
FC	FACE OF CURB	⊗	MAILBOX
FND	FOUND	⊗	METAL GRATE
FT	FINISHED FLOOR	⊗	METERED END SECTION
GAR	GARAGE	⊗	MONITORING WELL
(M)	MEASURED	⊗	OVERHEAD UTILITIES
N/F	NOT TO SCALE	⊗	POWER LINE (BURIED)
N/S	NOT TO SCALE	⊗	SANITARY SEWER CLEAN-OUT
OTF	OPEN TOP PIPE FOUND	⊗	SANITARY SEWER LINE
R	PROPERTY LINE	⊗	SANITARY SEWER MANHOLE
PLB	PLAT BOOK	⊗	SIGN
PC	POINT OF CURVATURE	⊗	SIGN
PKF	PK NAIL FOUND	⊗	SMOKE STACK
PKS	PK NAIL SET	⊗	STORM SEWER MANHOLE
POB	POINT OF BEGINNING	⊗	STORM SEWER LINE
POC	POINT OF COMMENCEMENT	⊗	STREET/PARKING LIGHT
(R)	RECORD	⊗	STUB (UNKNOWN)
R/W	RIGHT-OF-WAY	⊗	TANK
SWB	STATE WATERS BUFFER	⊗	UTILITY MANHOLE
TP	TAX PARCEL NUMBER	⊗	UTILITY/POWER POLE
TYP	TYPICAL	⊗	UTILITY RISER
UE	UTILITY ESMT	⊗	WATER LINE
⊗	1/2" CAPPED REBAR SET	⊗	WATER METER
⊗	STAMPED LSF 1010	⊗	WATER SPIGOT
⊗	(UNLESS OTHERWISE NOTED)	⊗	WELL
⊗	IRON PIN FOUND	⊗	WOOD/WIRE FENCE
⊗	(AS DESCRIBED)	⊗	ALUMINUM FENCE
⊗	COMPUTED POINT (NO PIN)	⊗	DOMESTIC WATER LINE
C.O.	CLEAN OUT	⊗	FIRE MAIN/LINE

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ALL WORK PERFORMED WITHIN GDOT R/W SHALL CONFORM TO GDOT STANDARDS AND DETAILS.

BASEMAP/SURVEY BY OTHERS THEREFORE (SEE SHEET #2 FOR MORE INFORMATION)

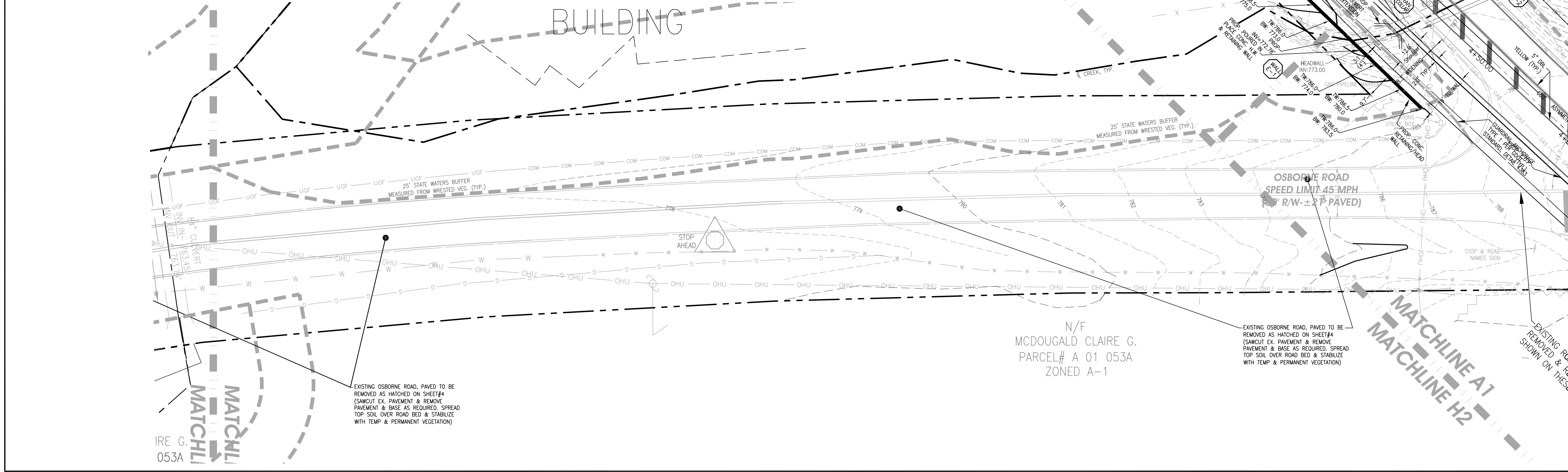


Know what's below. Call before you dig.

COLORS FOR UTILITY LOCATING:

- White = Prop. Excavation
- Pink = Temp. Survey Markings
- Red = Electric
- Yellow = Gas/Oil
- Orange = Phone/Cable
- Blue = Water
- Purple = Reclaimed Water
- Green = Sewer

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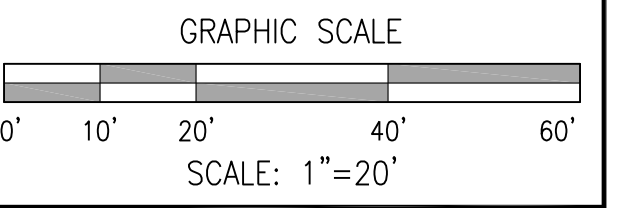
STRIPING PLAN H

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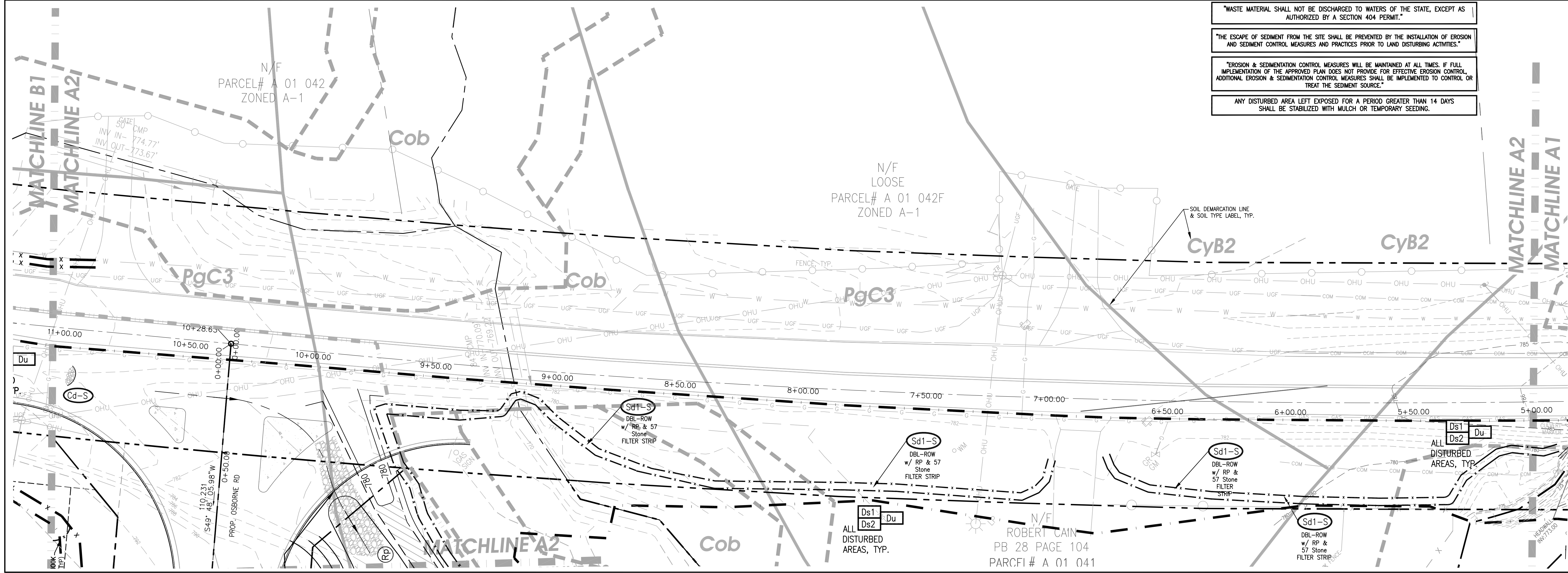
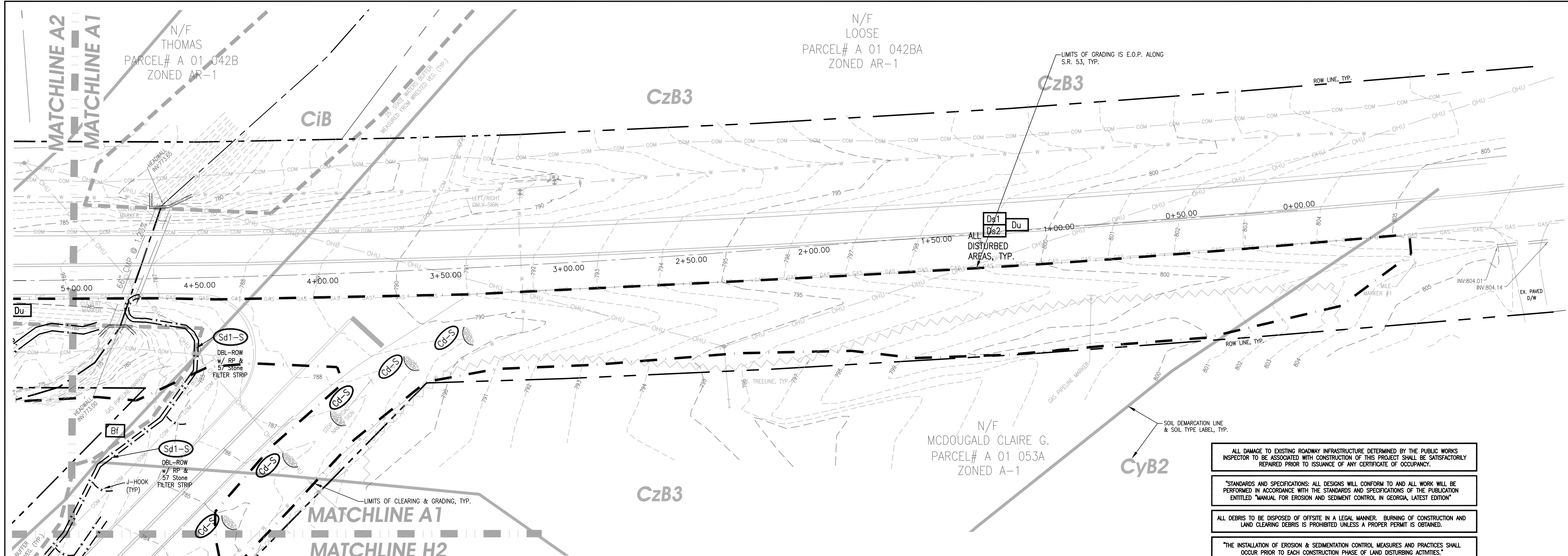


REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48



SHEET #
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- ALL DAMAGE TO EXISTING ROADWAY INFRASTRUCTURE DETERMINED BY THE PUBLIC WORKS INSPECTOR TO BE ASSOCIATED WITH CONSTRUCTION OF THIS PROJECT SHALL BE SATISFACTORILY REPAIRED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
- *STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION"
- ALL DEBRIS TO BE DISPOSED OF OFFSITE IN A LEGAL MANNER. BURNING OF CONSTRUCTION AND LAND CLEARING DEBRIS IS PROHIBITED UNLESS A PROPER PERMIT IS OBTAINED.
- "THE INSTALLATION OF EROSION & SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO EACH CONSTRUCTION PHASE OF LAND DISTURBING ACTIVITIES."
- "WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."
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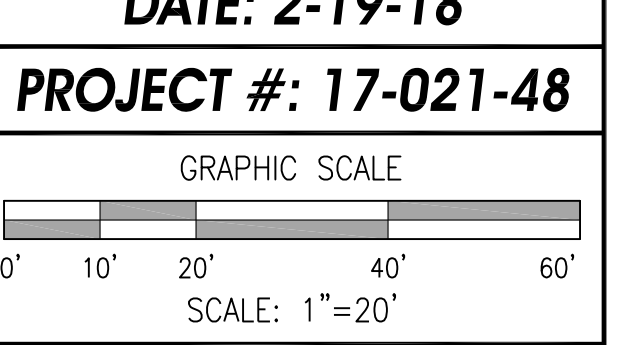
ES&PC PHASE I - INITIAL PLAN A

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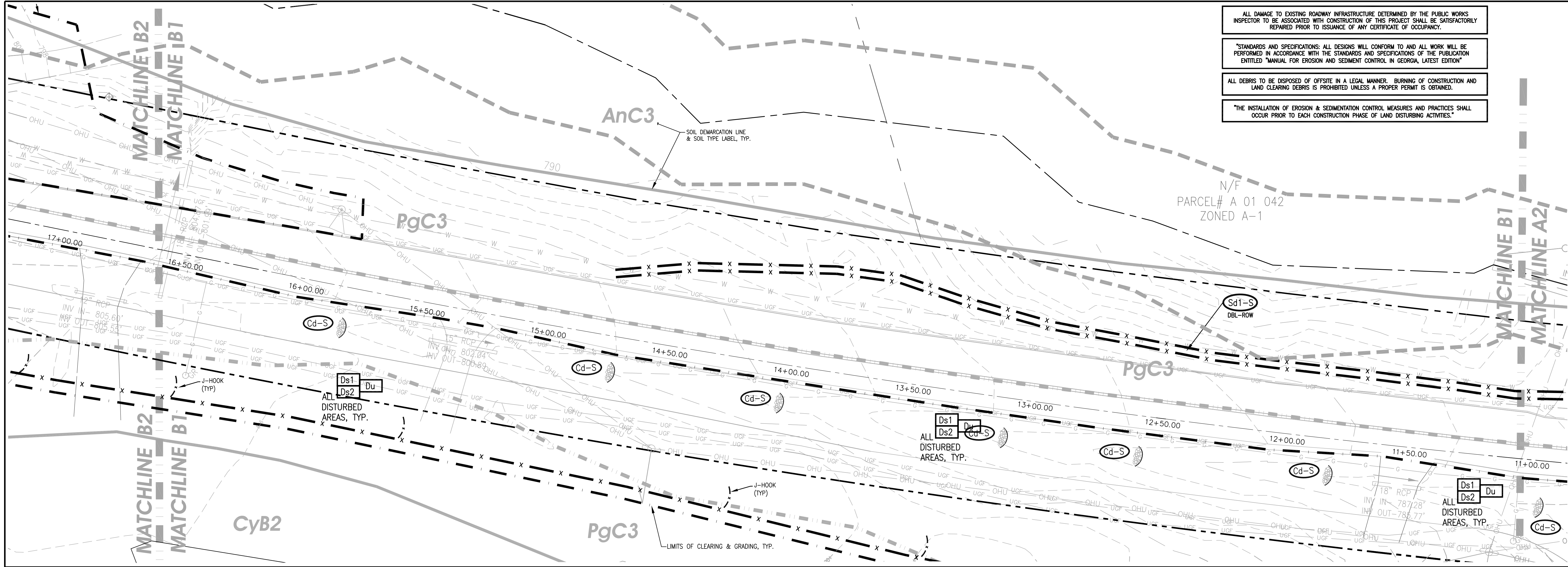


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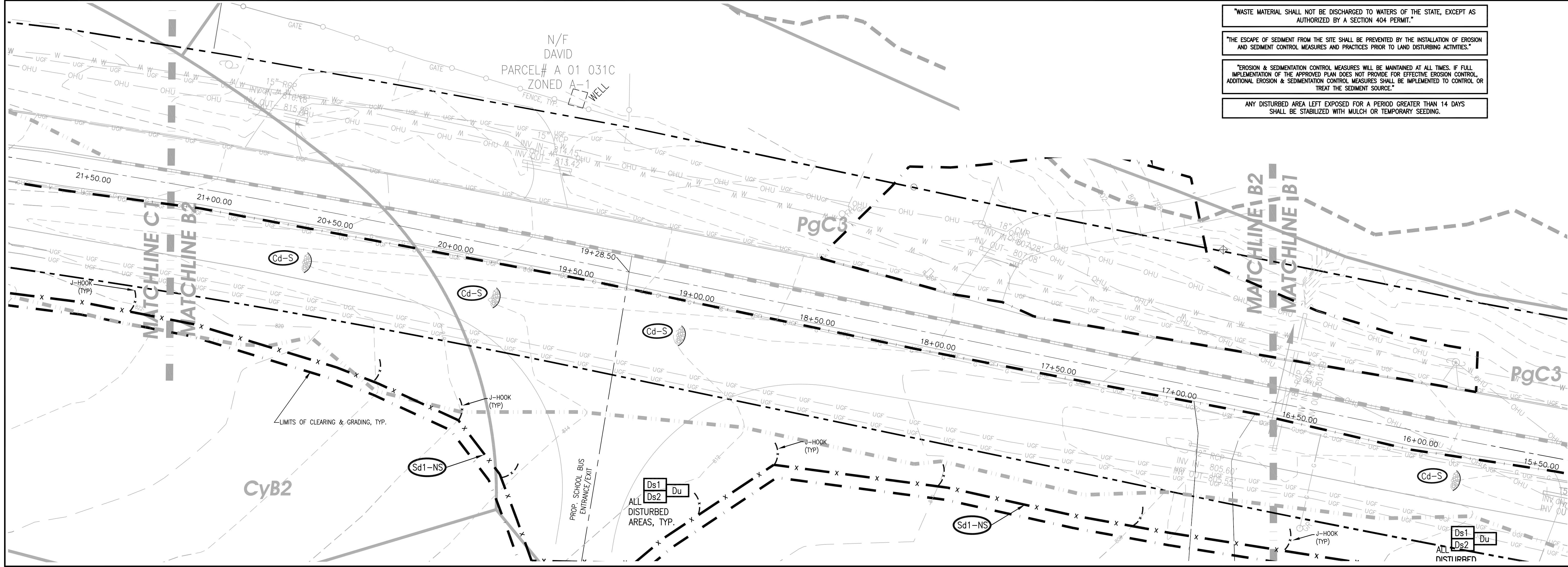


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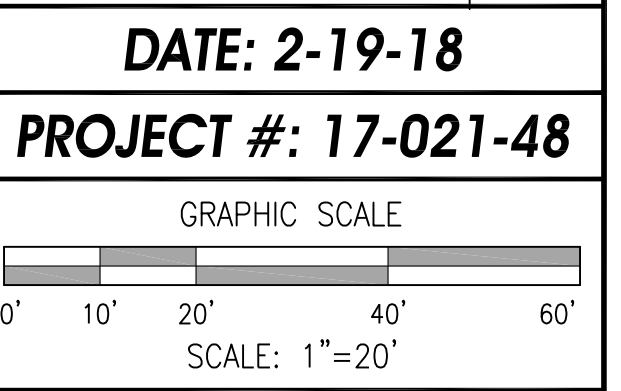
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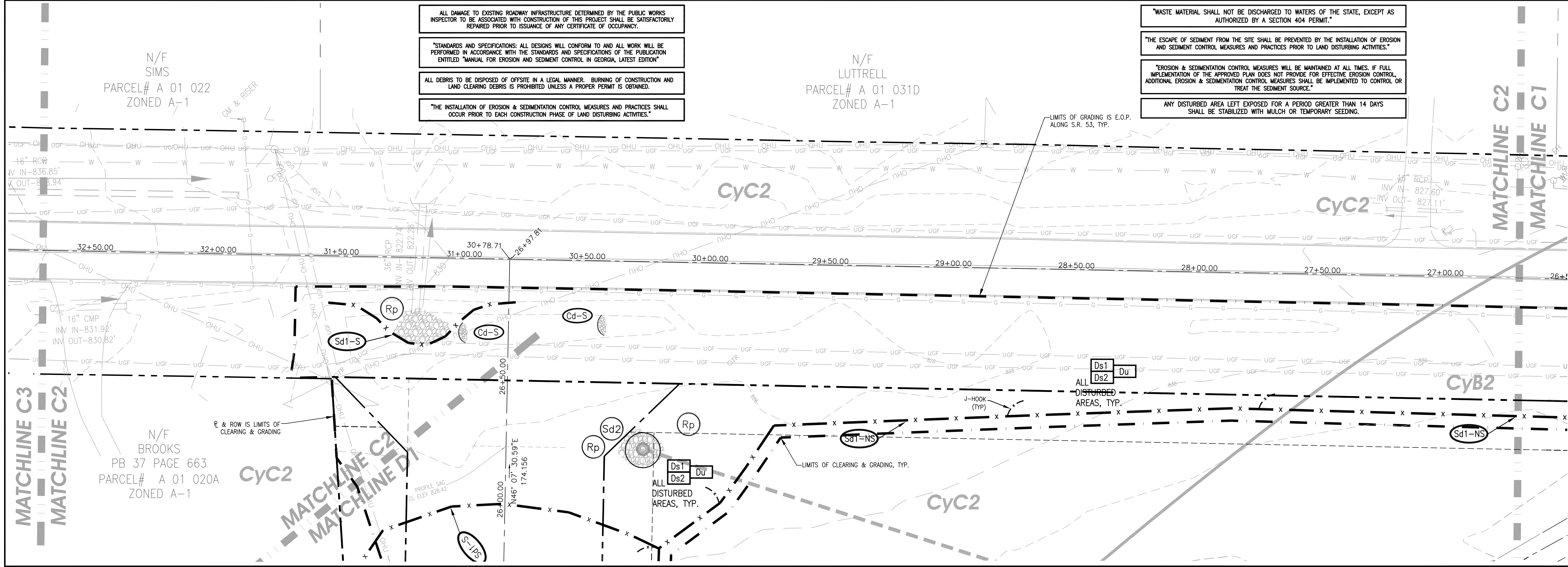
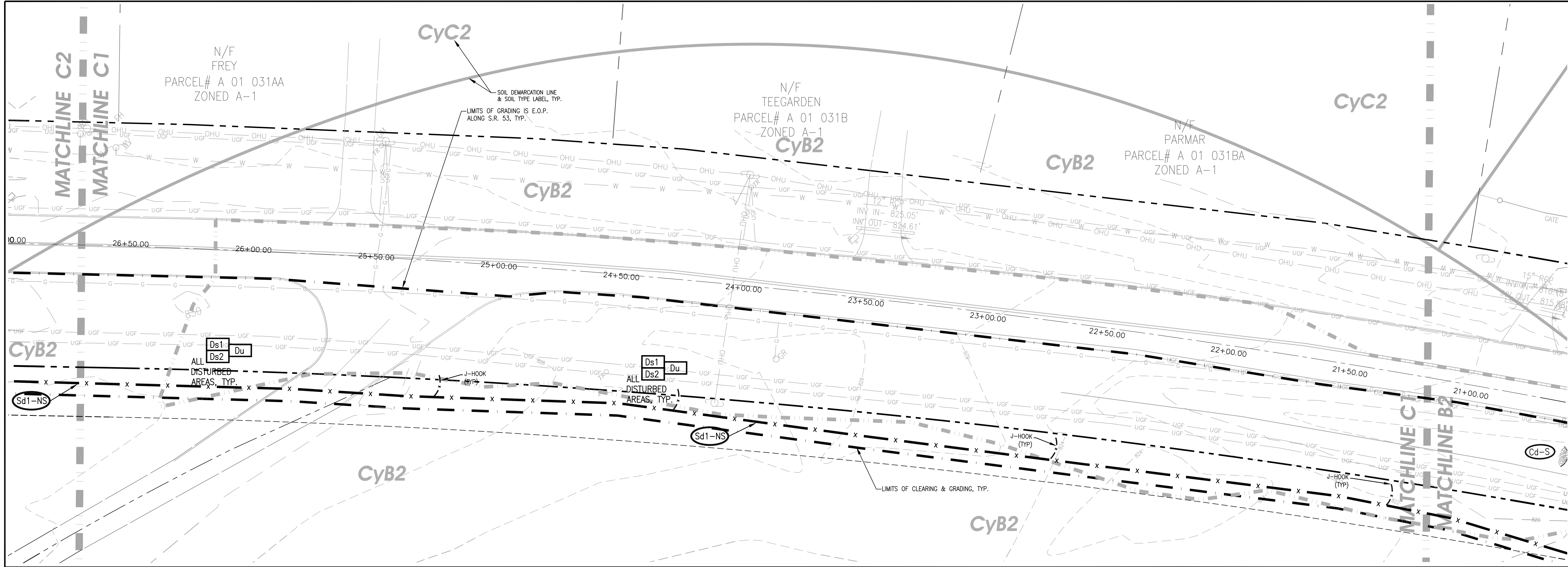


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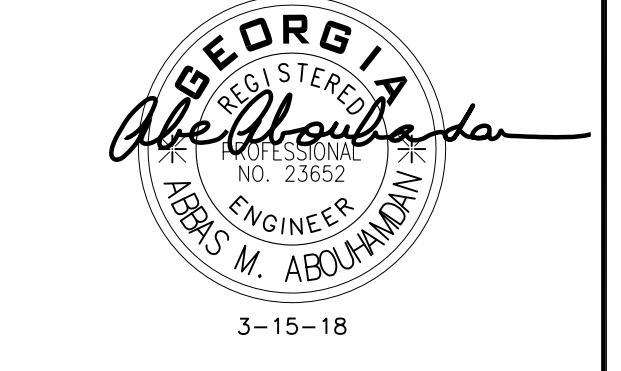
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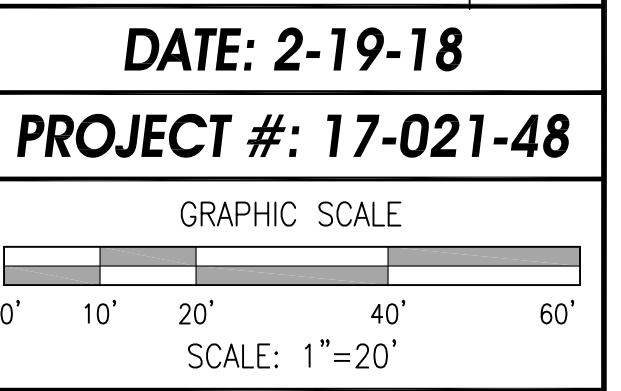
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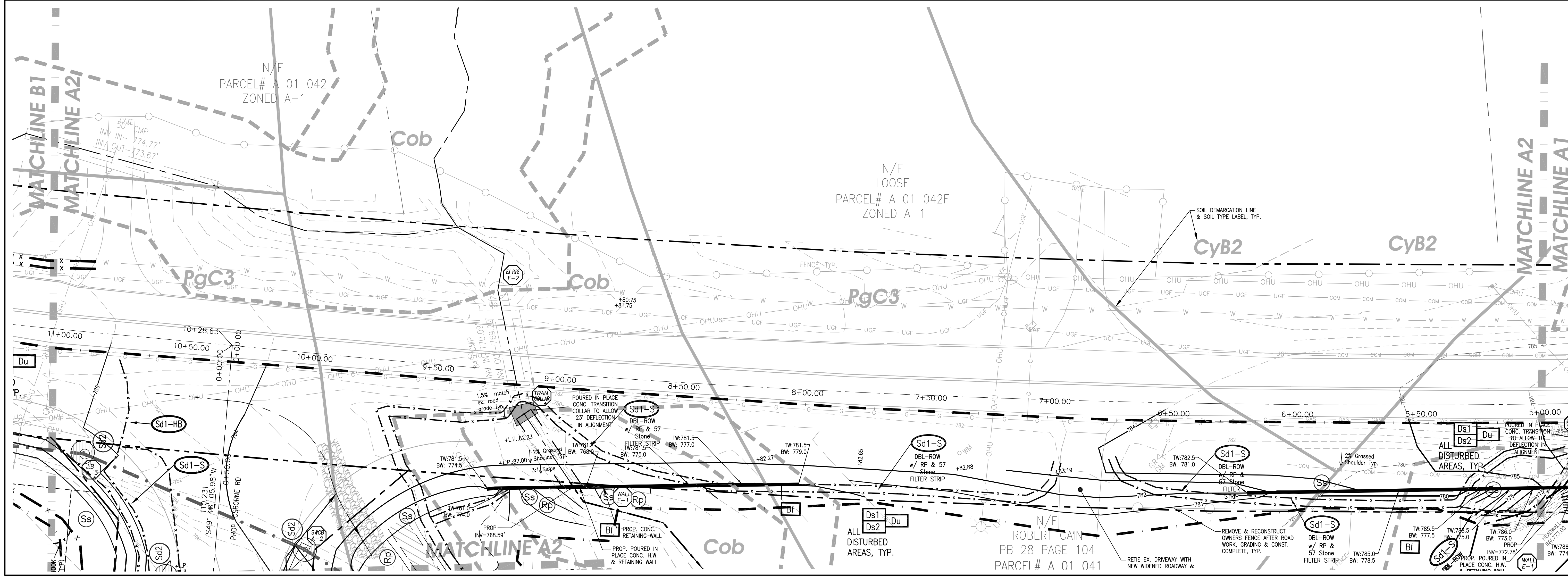
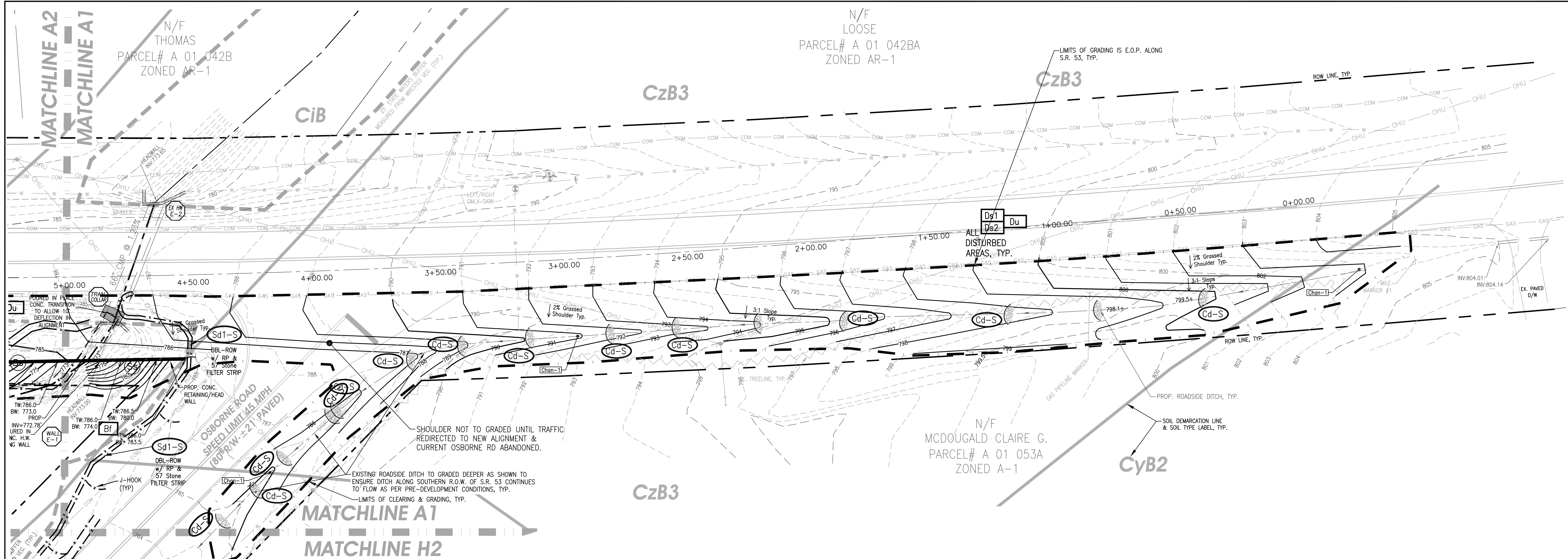


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GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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NORTH



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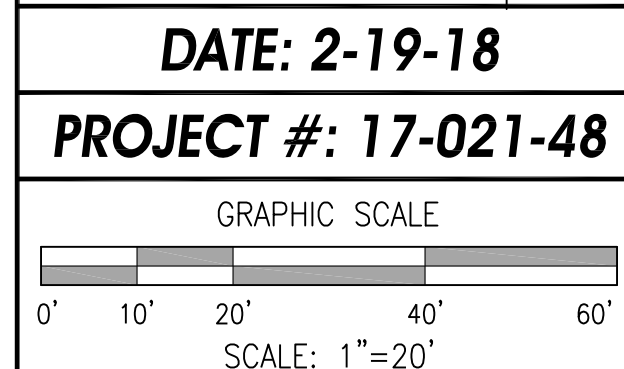
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PHASE II -
INTERMEDIATE
PLAN B

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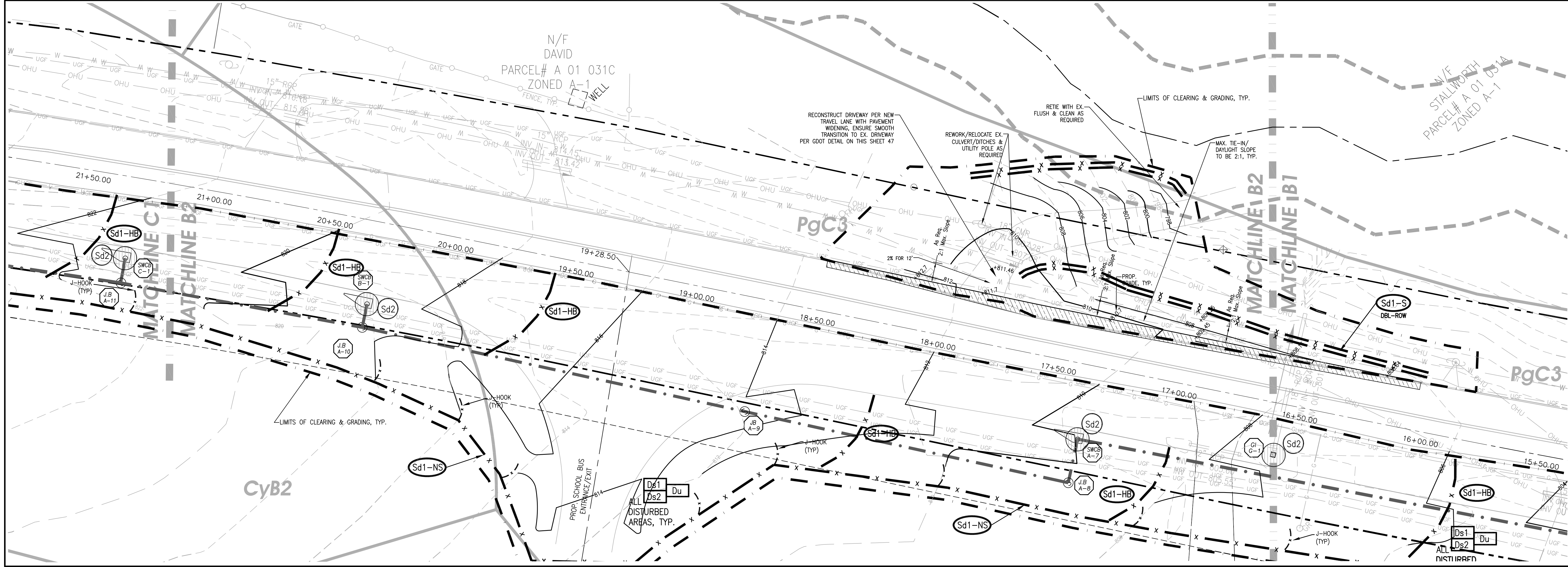
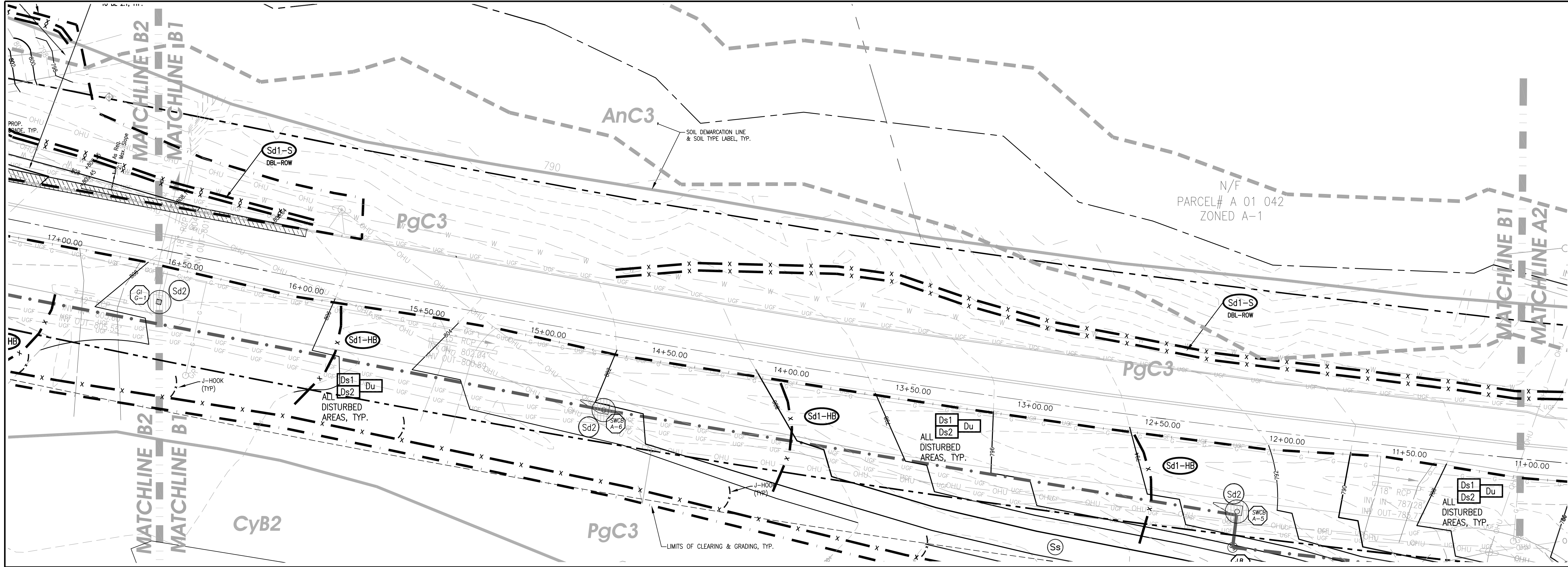


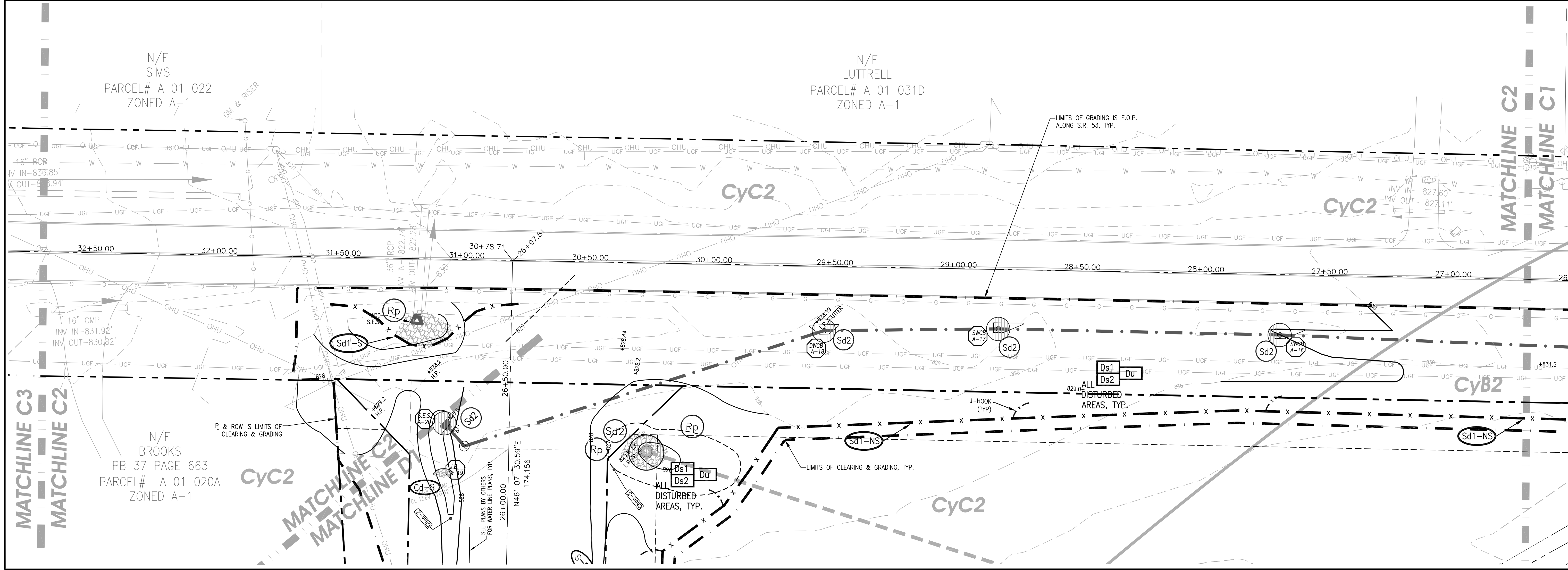
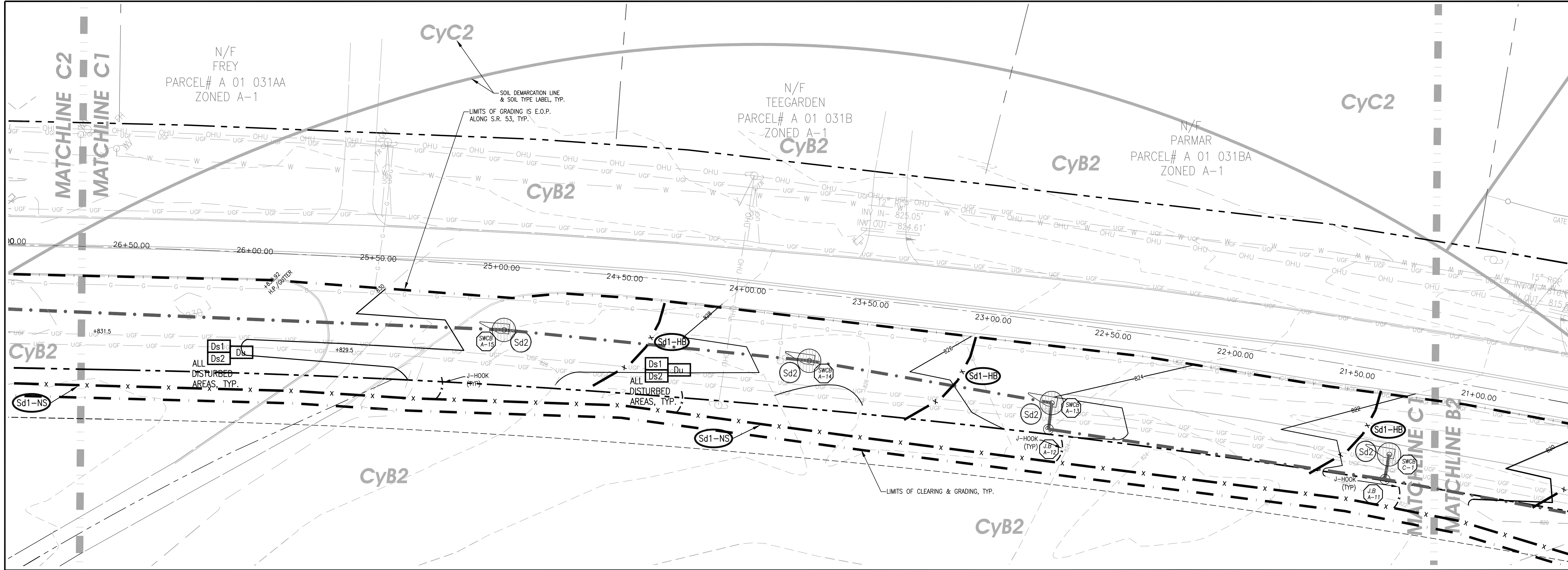
REVISIONS	DATE
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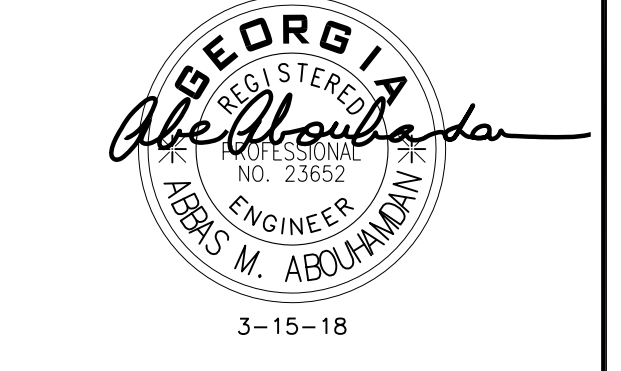
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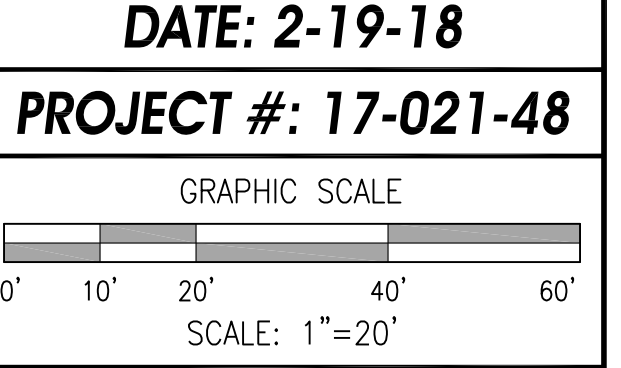
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PLAN C

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REVISIONS	DATE
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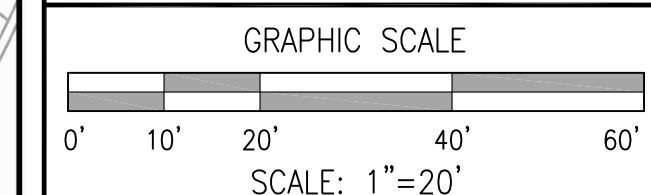
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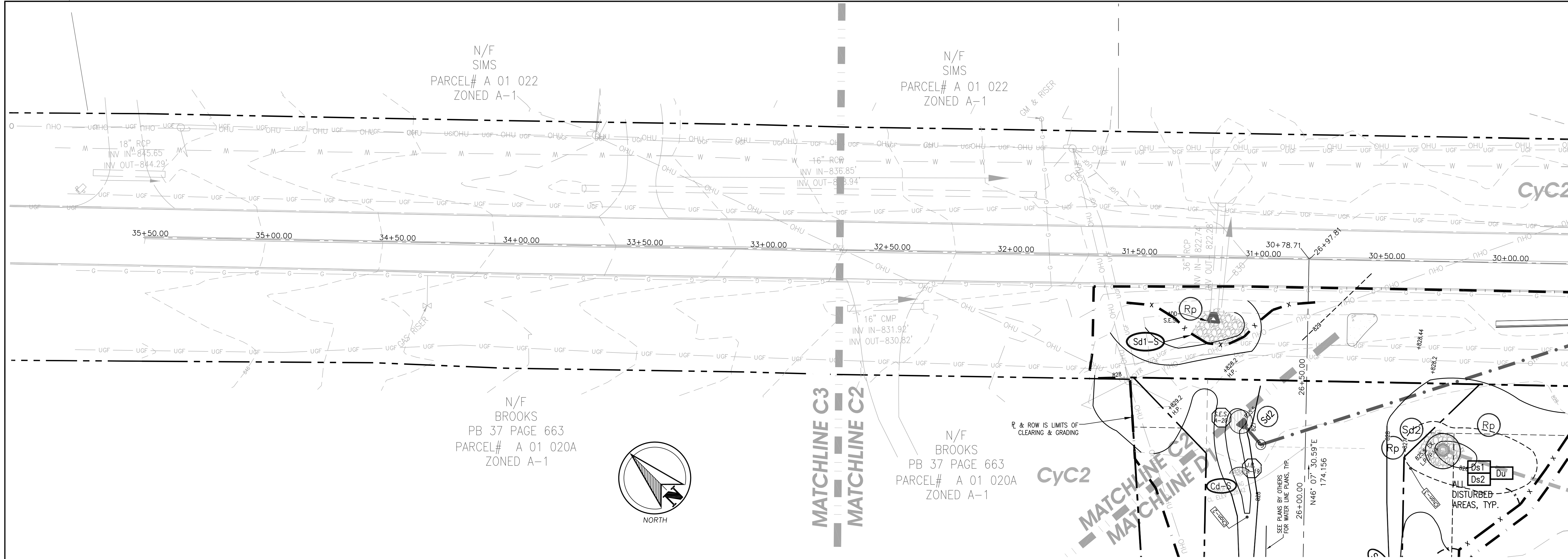
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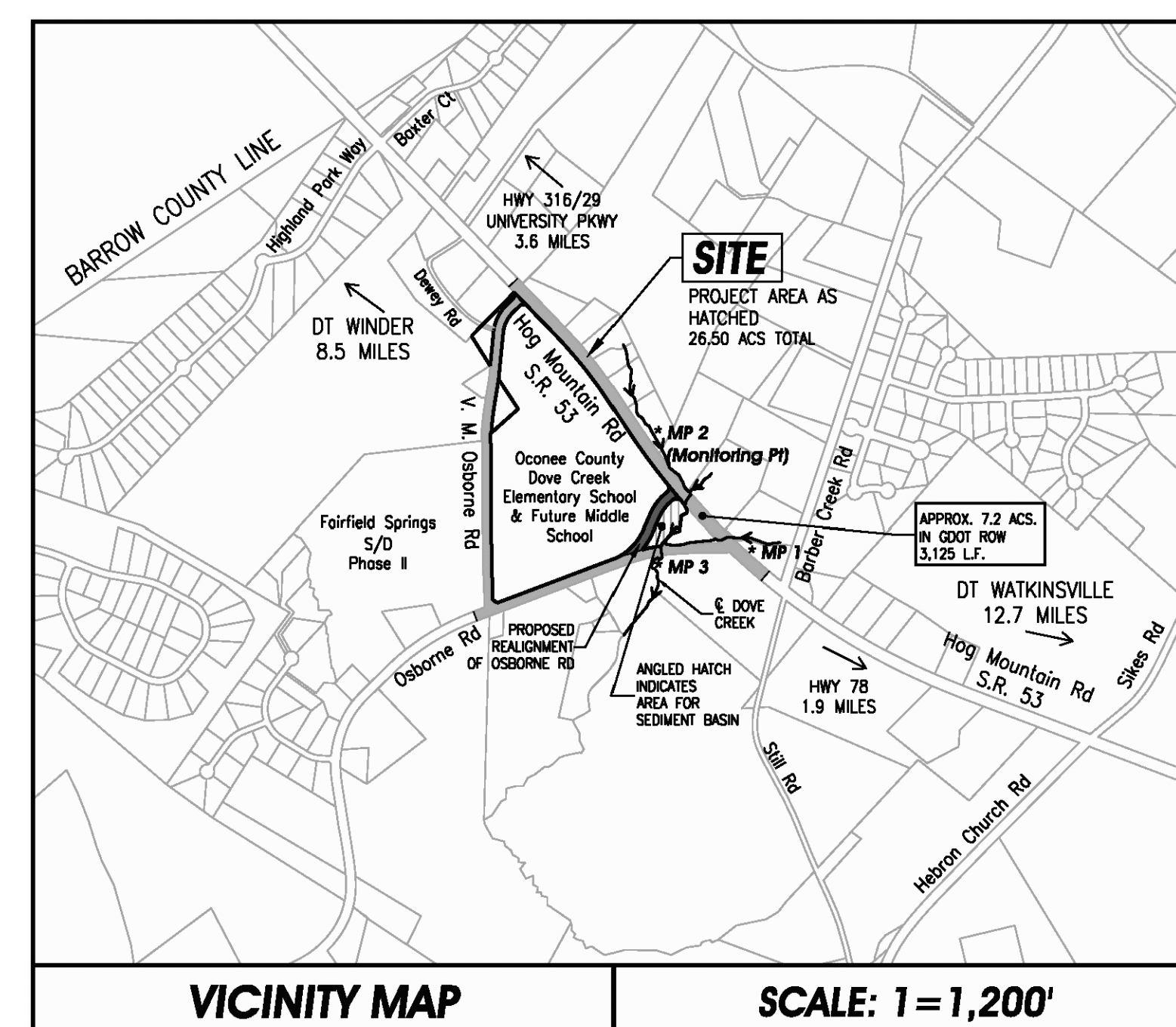
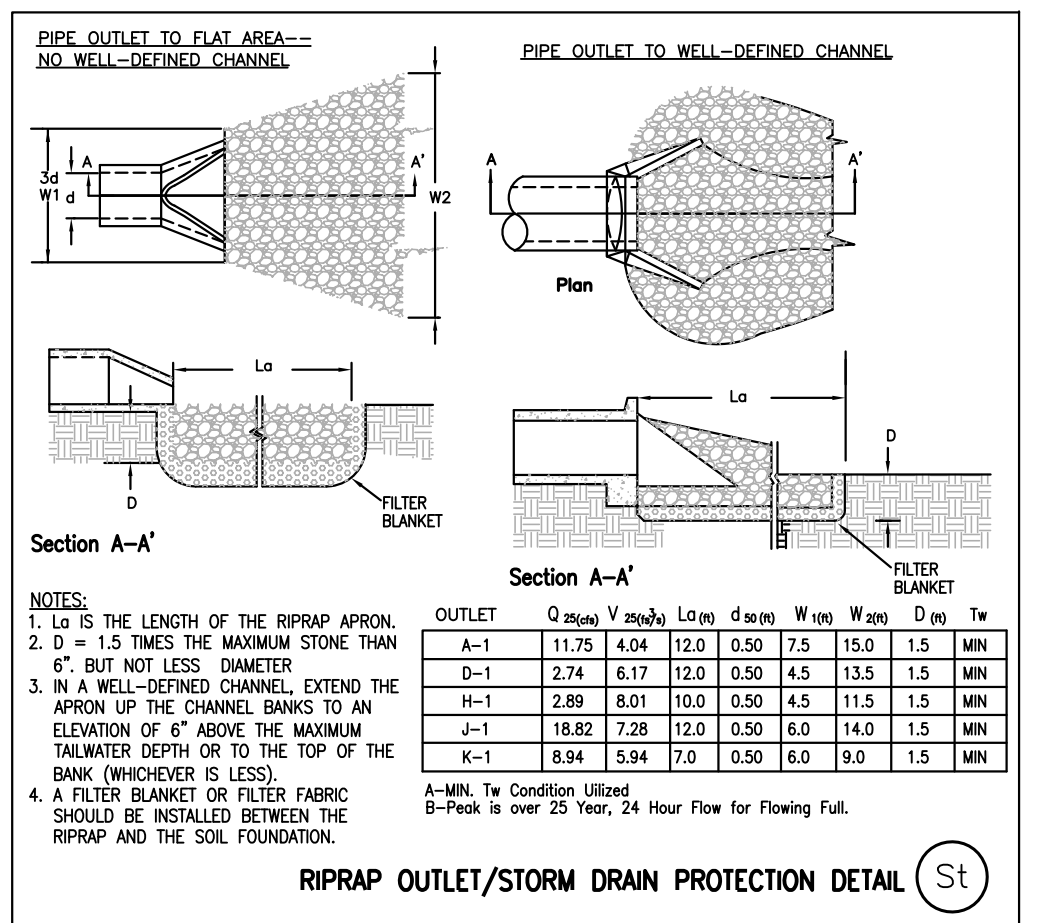
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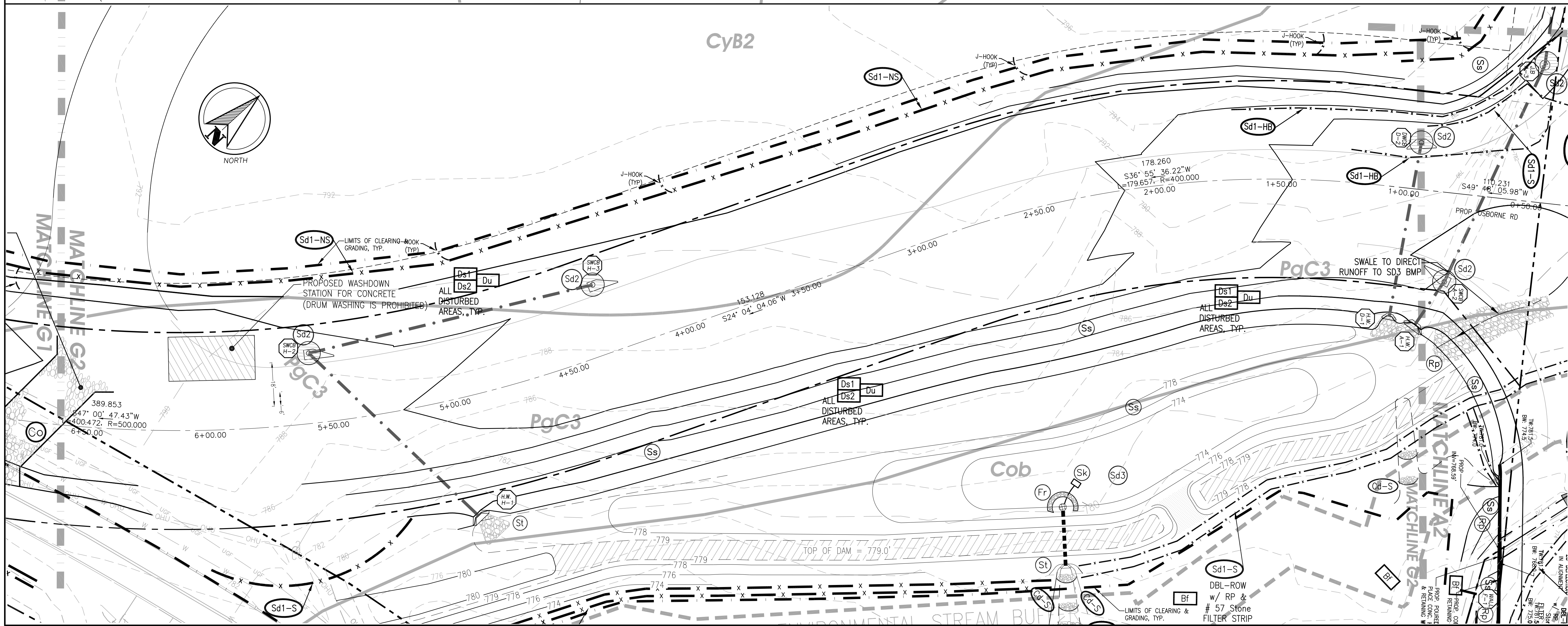
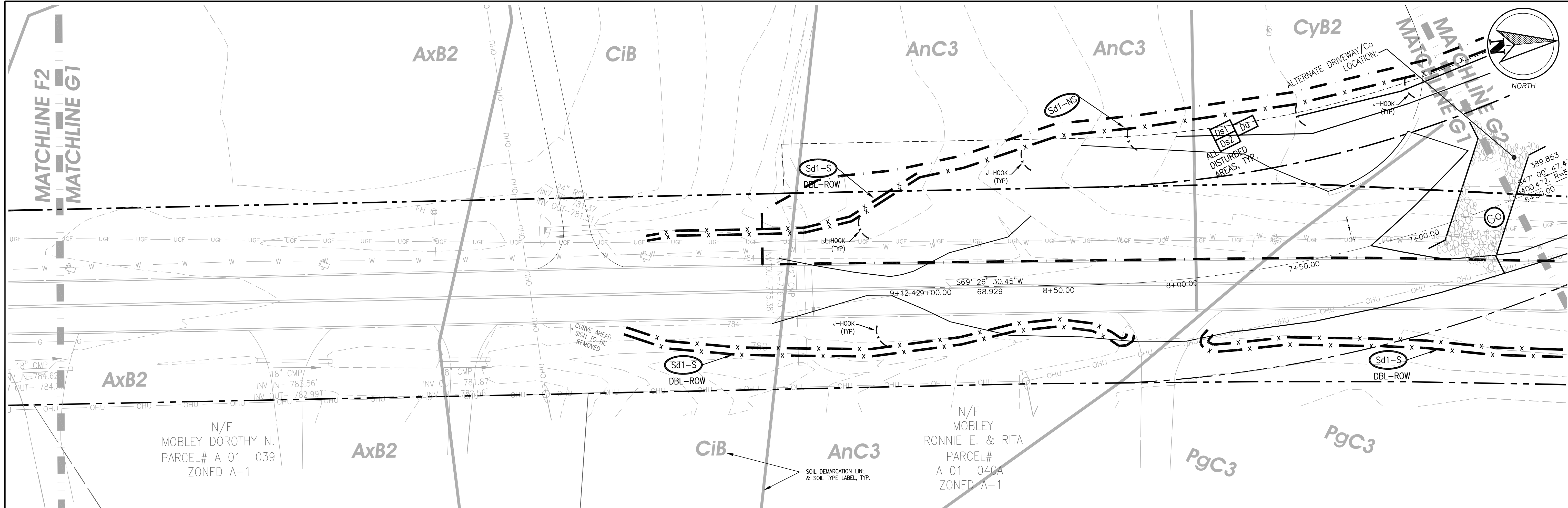


Proposed Channel Calculations																
Channel ID	Upper Invert	Lower Invert	Length (ft)	Slope %	n	Area (ac)	"C"	TOC (min)	Q ₂₅ (cfs)	Bottom Width (ft)	Side Slope (x:1)	Channel Depth (ft)	Avg. Flow Depth (ft)	Avg. Velocity V ₂₅ (fps)	Above 2.0 (cfs)	Conjunction With Check Dams (Cd-S)
Chan-1	803.00	785.00	480.00	3.75%	0.030	1.31	0.42	8.70	4.36	2.00	3	2.00	0.36	3.90	YES	Ch-1
Chan-2	838.00	827.00	335.00	3.28%	0.03	1.33	0.43	5	5.20	2.00	4	2.00	0.37	4.01	YES	Ch-1
Chan-3	834.00	827.00	190.00	3.68%	0.03	0.23	0.7	5	1.47	2.00	4	1.00	0.20	2.7	NO	
Chan-4	840.00	834.00	260.00	2.31%	0.03	0.24	0.53	5	1.16	2.00	3	1.50	0.20	2.2	NO	
Chan-5	840.00	834.00	260.00	2.31%	0.03	1.32	0.38	10.5	3.75	2.00	3	1.50	0.38	3.2	YES	Ch-1
Chan-6	840.00	829.00	340.00	3.24%	0.03	0.25	0.56	5	1.27	2.00	3	1.50	0.19	2.5	NO	
Chan-7	838.00	829.00	225.00	4.00%	0.03	0.79	0.42	9.3	2.58	2.00	3	1.50	0.27	3.3	YES	Ch-1
Chan-8	829.00	824.00	190.00	2.63%	0.03	7.56	0.36	14.4	18.17	2.00	3	1.50	0.81	5	YES	Ch-1
Chan-9	824.00	804.00	945.00	2.12%	0.03	2.44	0.41	8	8.13	2.00	3	1.50	0.58	3.8	YES	Ch-1
Chan-10	829.00	824.00	190.00	2.63%	0.03	0.13	0.59	5	0.70	2.00	3	1.50	0.10	1.6	NO	
Chan-11	824.00	804.00	945.00	2.12%	0.03	0.87	0.53	5	4.20	2.00	3	1.50	0.43	3.2	YES	Ch-1
Chan-12	812.00	804.00	350.00	2.29%	0.03	0.38	0.53	5	1.83	2.00	2	1.50	0.26	2.7	NO	
Chan-13	812.00	804.00	350.00	2.29%	0.03	0.42	0.53	5	2.03	2.00	2	1.50	0.29	2.8	YES	Ch-1



VICINITY MAP

SCALE: 1"=1,200'



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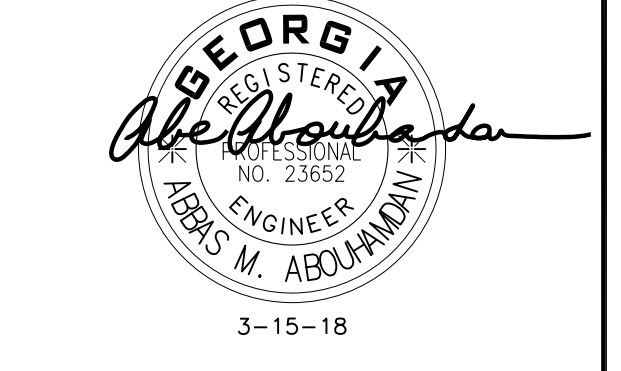
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 GDOT DISTRICT# 1

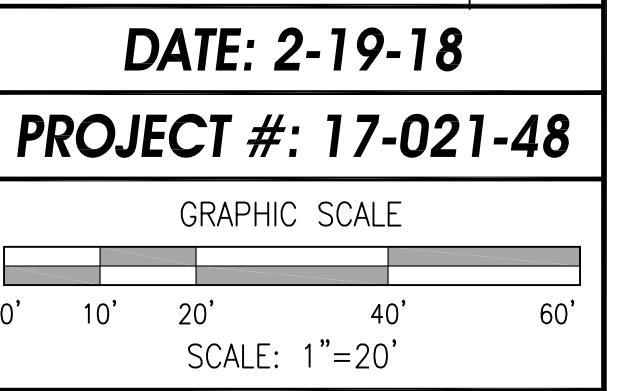
ES&PC
 PHASE II -
 INTERMEDIATE
 PLAN G

ISSUED FOR BIDDING

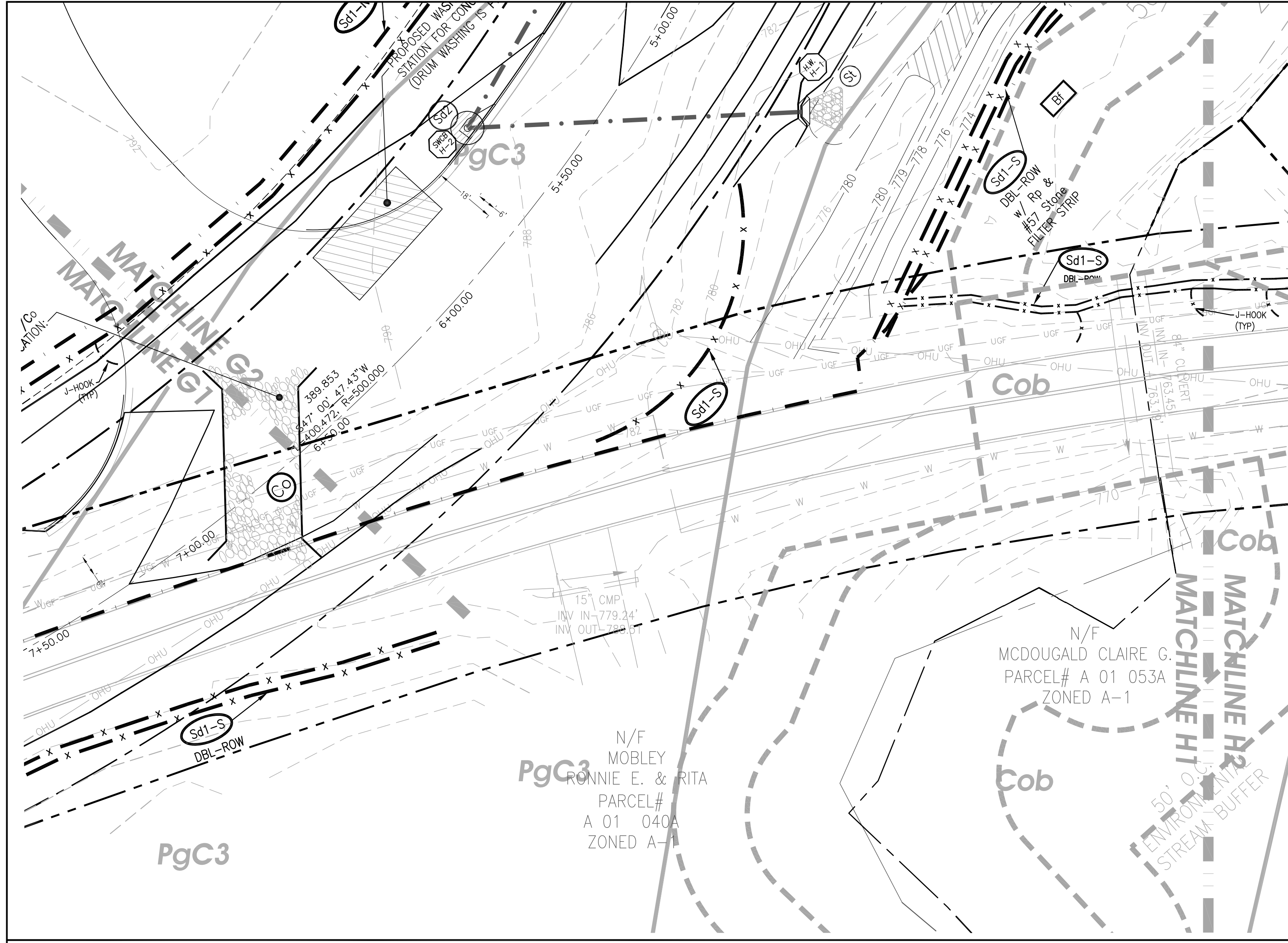


REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
 PROJECT #: 17-021-48

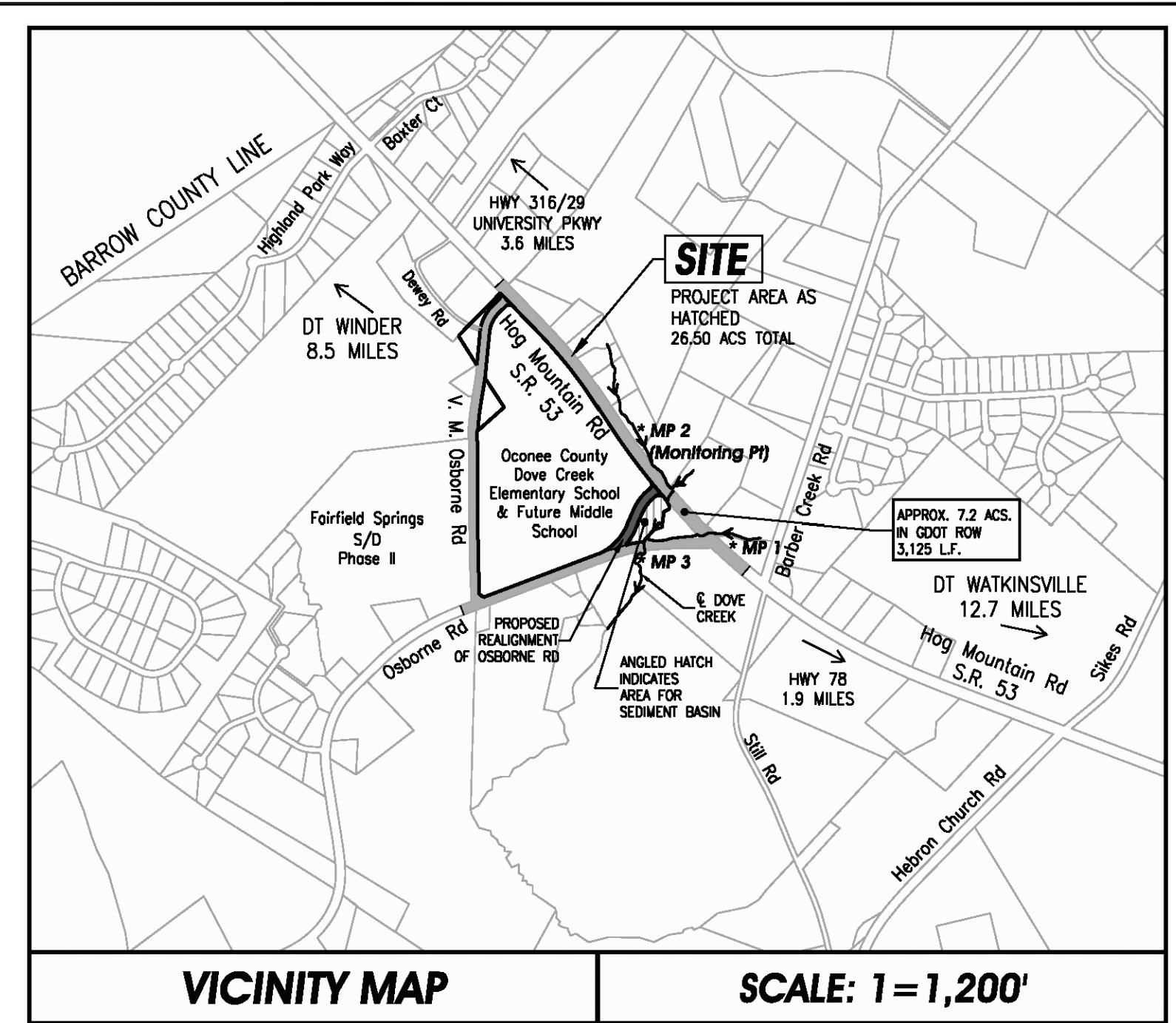


SHEET #
30
62



LEGEND OF SURVEY ABBREVIATIONS/ SYMBOLS

A	ARC LENGTH	BACKFLOW PREVENTER
A/C	AIR CONDITIONER	BENCHMARK
AE	ACCESS EASEMENT	BOLLARD
ASPH	ASPHALT	BURIED CABLE POST
BC	BACK OF CURB	CATCH BASIN (SINGLE WING)
BLDG	BUILDING	CATCH BASIN (DOUBLE WING)
BSL	BUILDING SETBACK LINE	CHAIN LINK FENCE
CC	CALCULATED CORNER	DRAIN-YARD INLET AS LABELED
C	CENTERLINE	ELECTRIC BOX
CMF	CONC MONUMENT FOUND	ELECTRIC METER
CONC	CONCRETE	ELECTRIC OUTLET
COV	COVERED	GROUND LIGHT
CRBF	CAPPED REBAR FOUND	FIRE HYDRANT
CIF	CRIMP TOP PIPE FOUND	GAS LINE
DB	DEED BOOK	GATE VALVE
DE	DRAINAGE ESMT	GAS VALVE
EDA	EDGE OF ASPHALT	GUTTER
ENCL	ENCLOSED	GUY/ANCHOR
ENCR	ENCROACHMENT	INLET
E/P	EDGE OF PAVEMENT	IRRIGATION BOX
ESMT	EASEMENT	IRRIGATION CONTROL VALVE
FC	FACE OF CURB	MAILBOX
FND	FOUND	METAL GRATE
FT	FINISHED FLOOR	METERED END SECTION
GAR	GARAGE	MONITORING WELL
(M)	MEASURED	OVERHEAD UTILITIES
N/F	NOW OR FORMERLY	POWER LINE (BURIED)
N/S	NOT TO SCALE	SANITARY SEWER CLEAN-OUT
OIT	OPEN TOP PIPE FOUND	SANITARY SEWER LINE
R	PROPERTY LINE	SANITARY SEWER MANHOLE
RB	PLAT BOOK	SIGN
PC	POINT OF CURVATURE	SMOKE STACK
PKF	PK NAIL FOUND	STORM SEWER MANHOLE
PKS	PK NAIL SET	STORM SEWER LINE
POB	POINT OF BEGINNING	STREET/PARKING LIGHT
POC	POINT OF COMMENCEMENT	STUB (UNKNOWN)
(R)	RECORD	TANK
R/W	RIGHT-OF-WAY	UTILITY MANHOLE
SBF	STATE WATERS BUFFER	UTILITY/POWER POLE
TAX	TAX PARCEL NUMBER	UTILITY RISER
TP	TYPICAL	WATER LINE
UE	UTILITY ESMT	WATER METER
1/2"	1/2" CAPPED REBAR SET	WATER SPOUT
STAMPED	STAMPED LSF 1010	WELL
(UNLESS OTHERWISE NOTED)		WOOD/WIRE FENCE
IRON PIN FOUND		ALUMINUM FENCE
(AS DESCRIBED)		DOMESTIC WATER LINE
COMPUTED POINT (NO PIN)		FIRE MAIN/LINE
C.O.	CLEAN OUT	

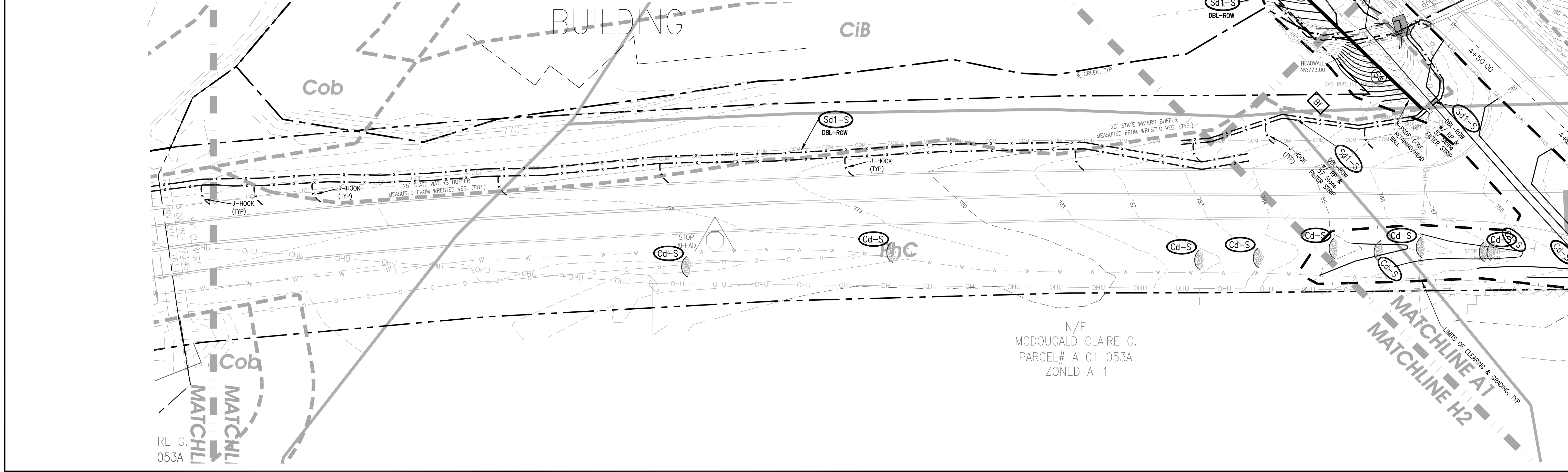


BASEMAP/SURVEY BY OTHERS THEREFORE
(SEE SHEET #2 FOR MORE INFORMATION)



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 - Green = Sewer



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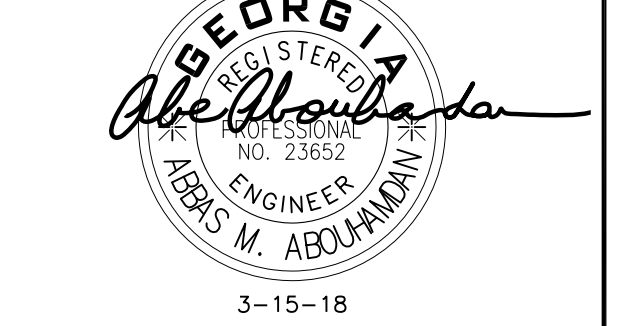
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224th GMD
GDOT DISTRICT# 1

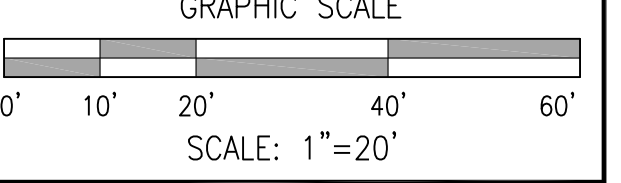
ES&PC
PHASE II -
INTERMEDIATE
PLAN H

ISSUED FOR BIDDING

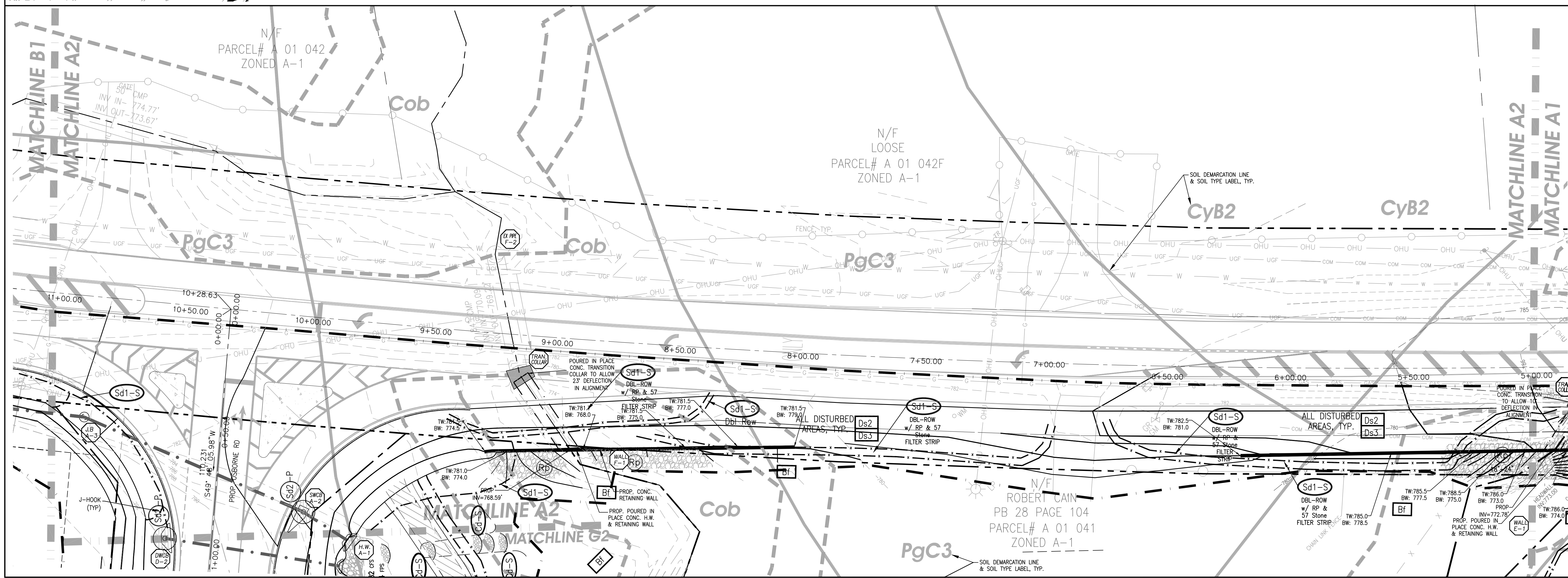
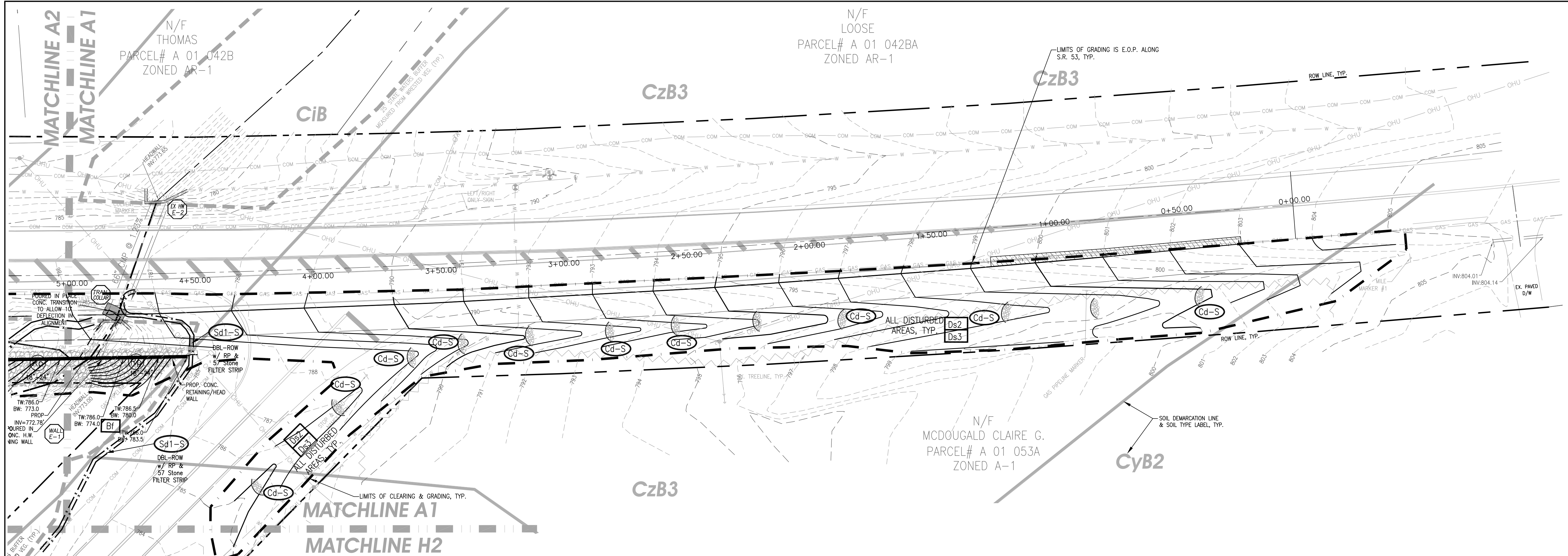


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REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48



SHEET #
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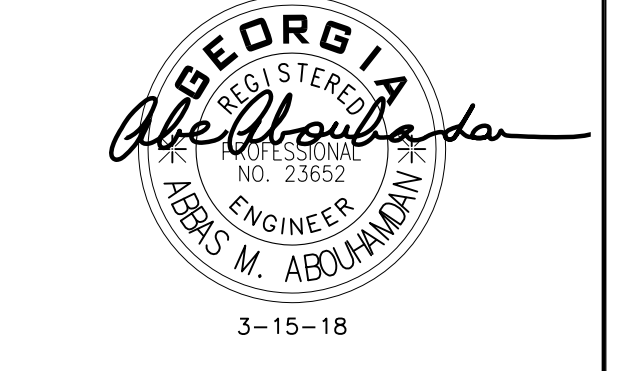
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 PHASE III - FINAL
 PLAN A

ISSUED FOR BIDDING



REVISIONS	DATE
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REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
 PROJECT #: 17-021-48

GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

SHEET #
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NORTH



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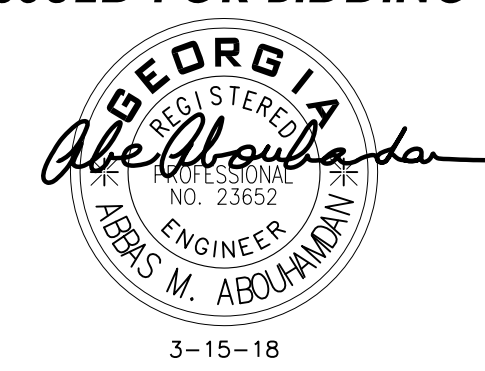
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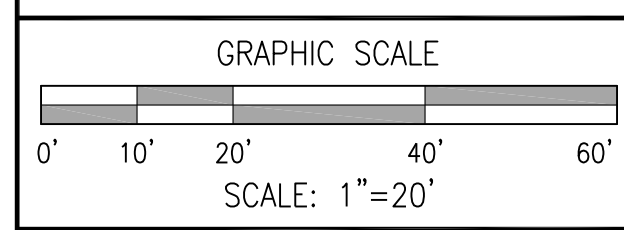
ES&PC
PHASE III - FINAL
PLAN B

ISSUED FOR BIDDING

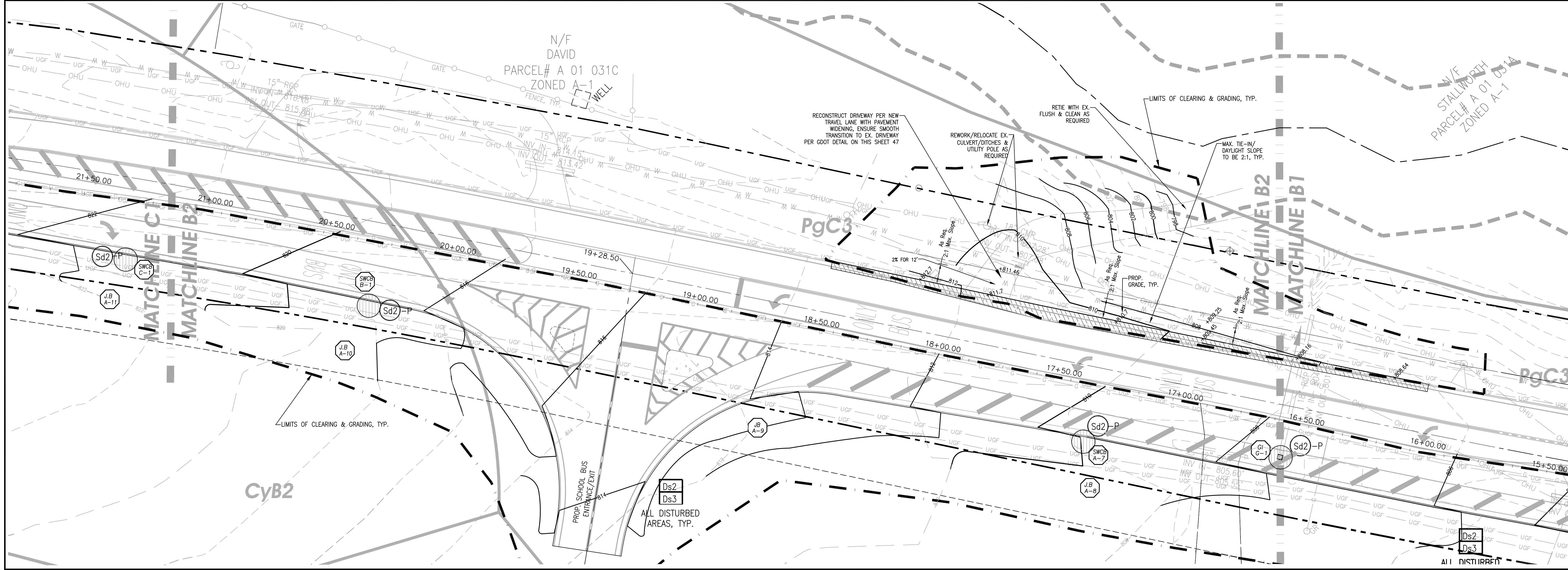
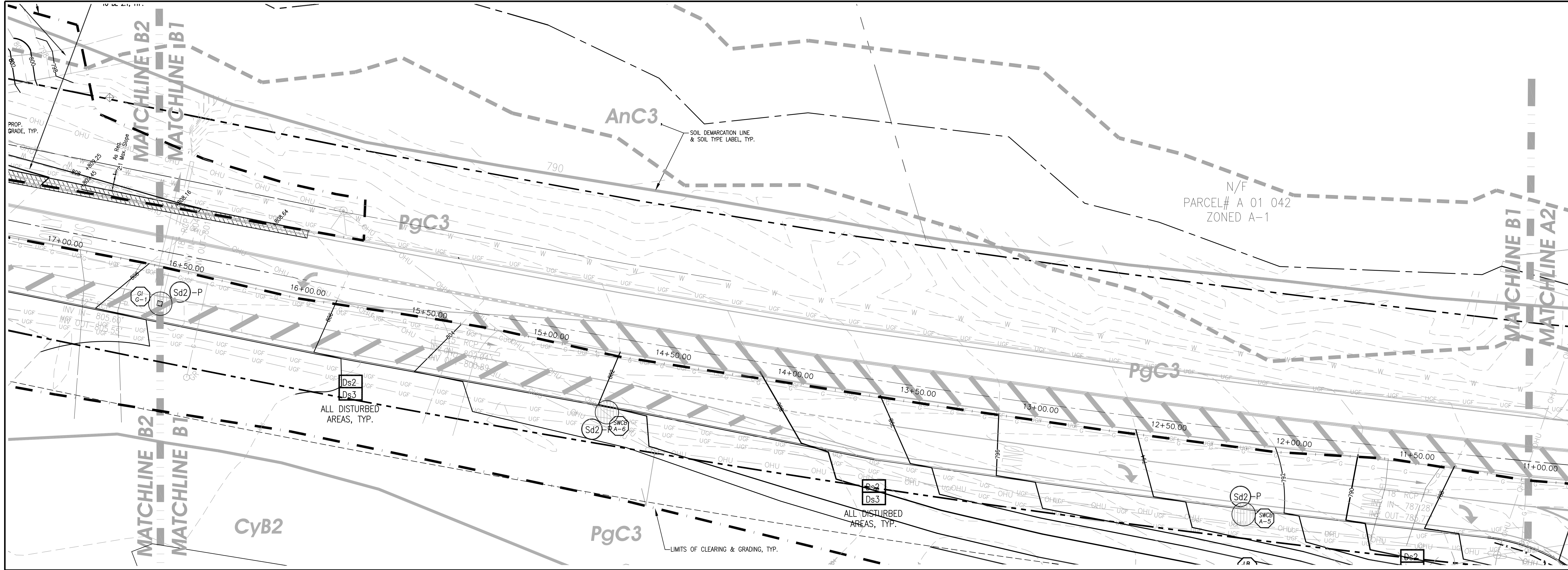


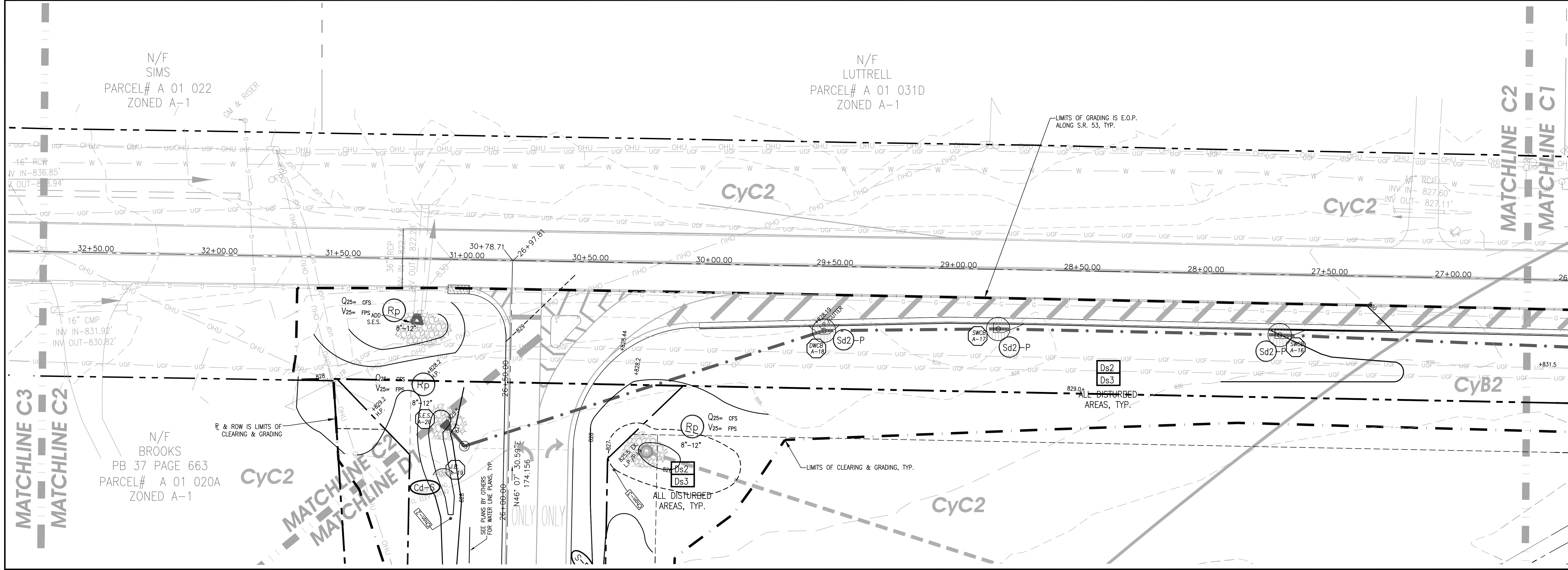
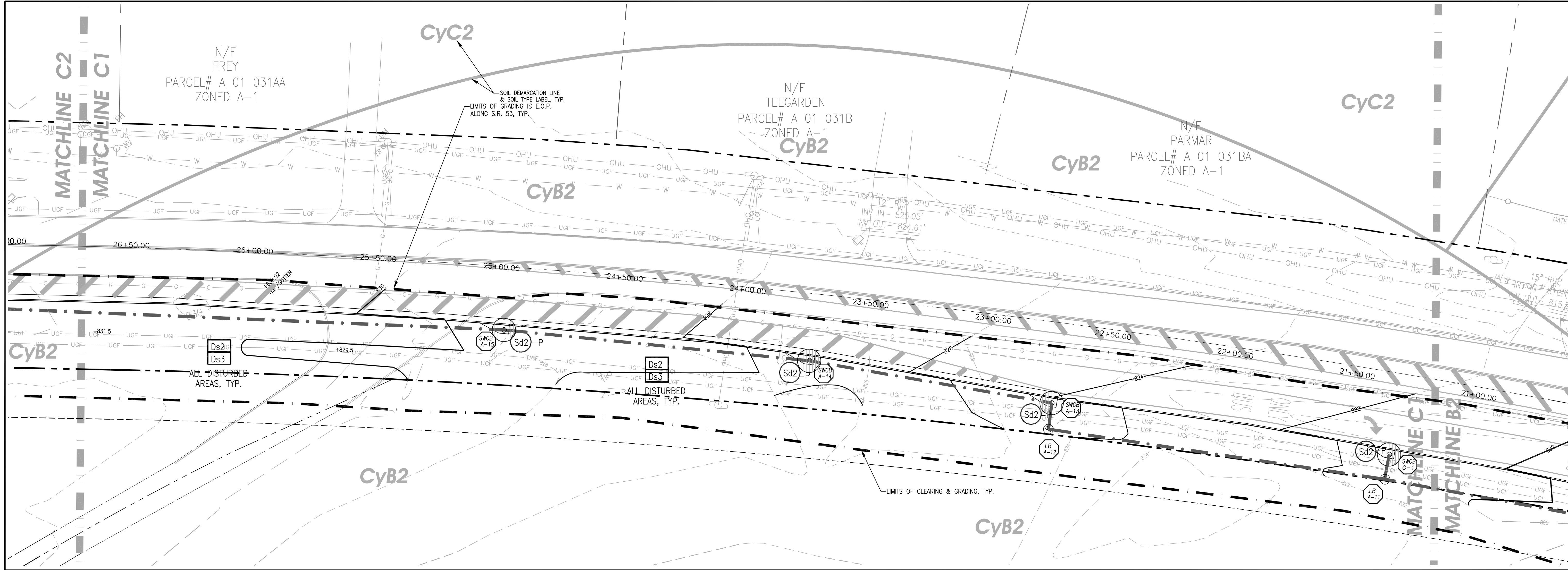
REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48



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DOVE CREEK SCHOOL R/W IMPROVEMENTS

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 GDOT DISTRICT# 1

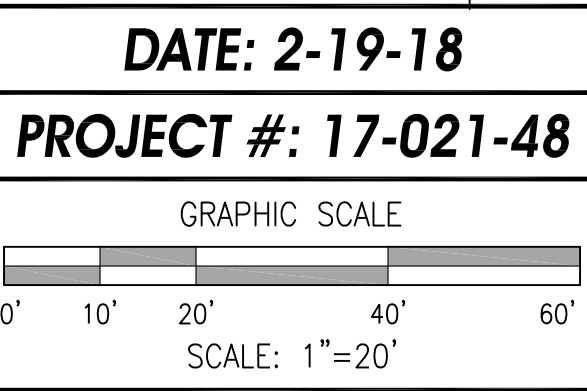
ES&PC
PHASE III - FINAL
PLAN C

ISSUED FOR BIDDING

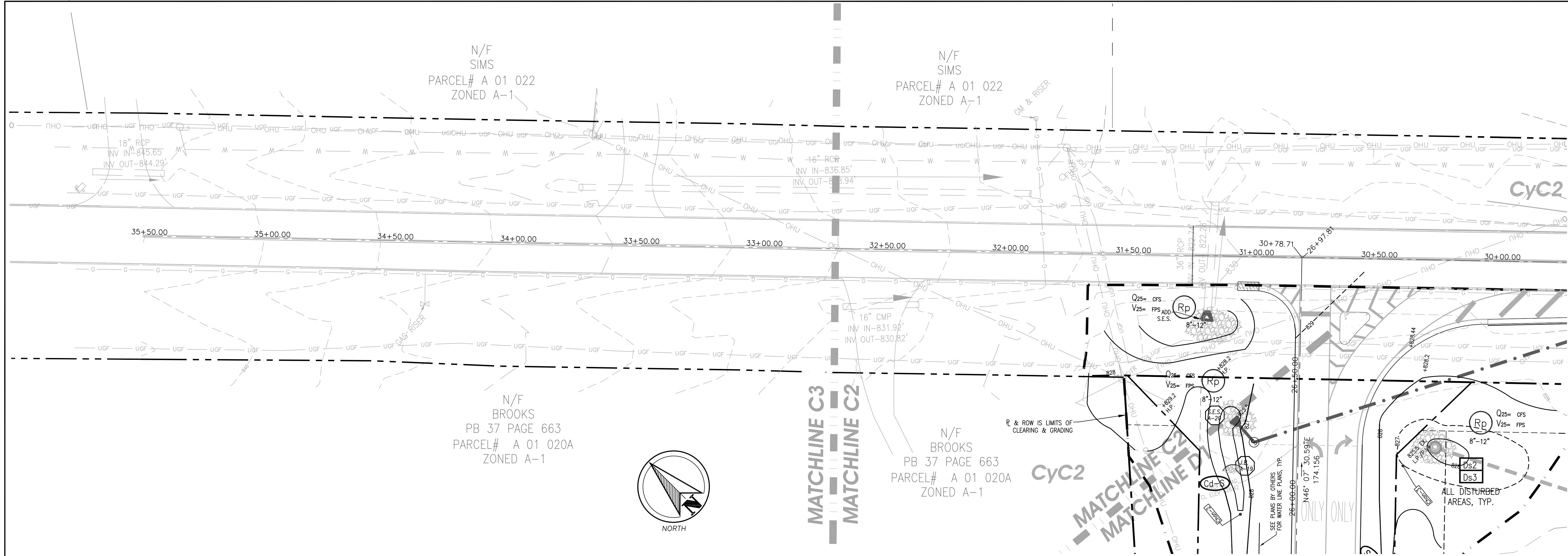


REVISIONS	DATE
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DATE: 2-19-18
PROJECT #: 17-021-48



SHEET #
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COMPREHENSIVE ENGINEERING SERVICES
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 GDOT DISTRICT# 1

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 PHASE III - FINAL
 PLAN C3

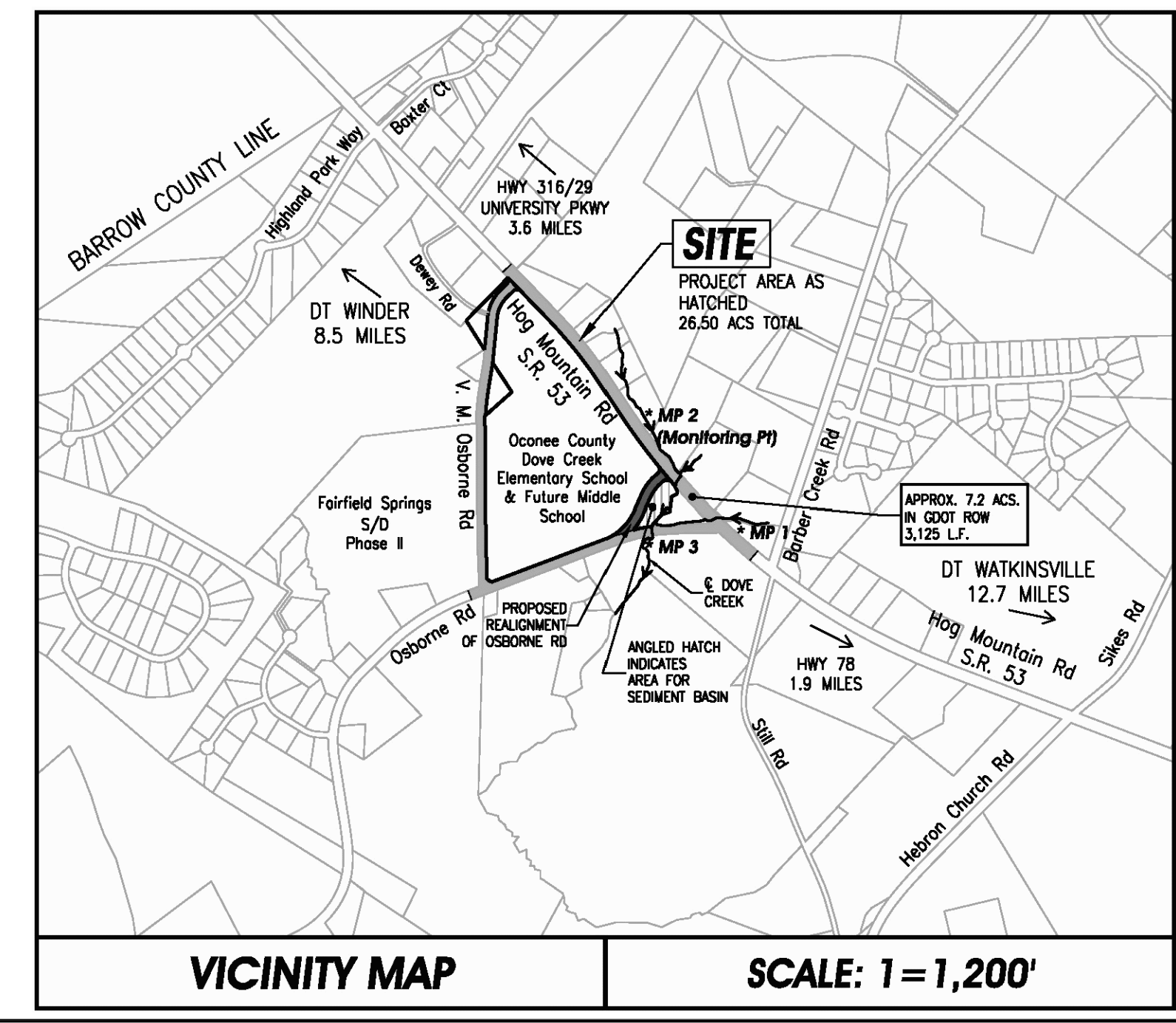
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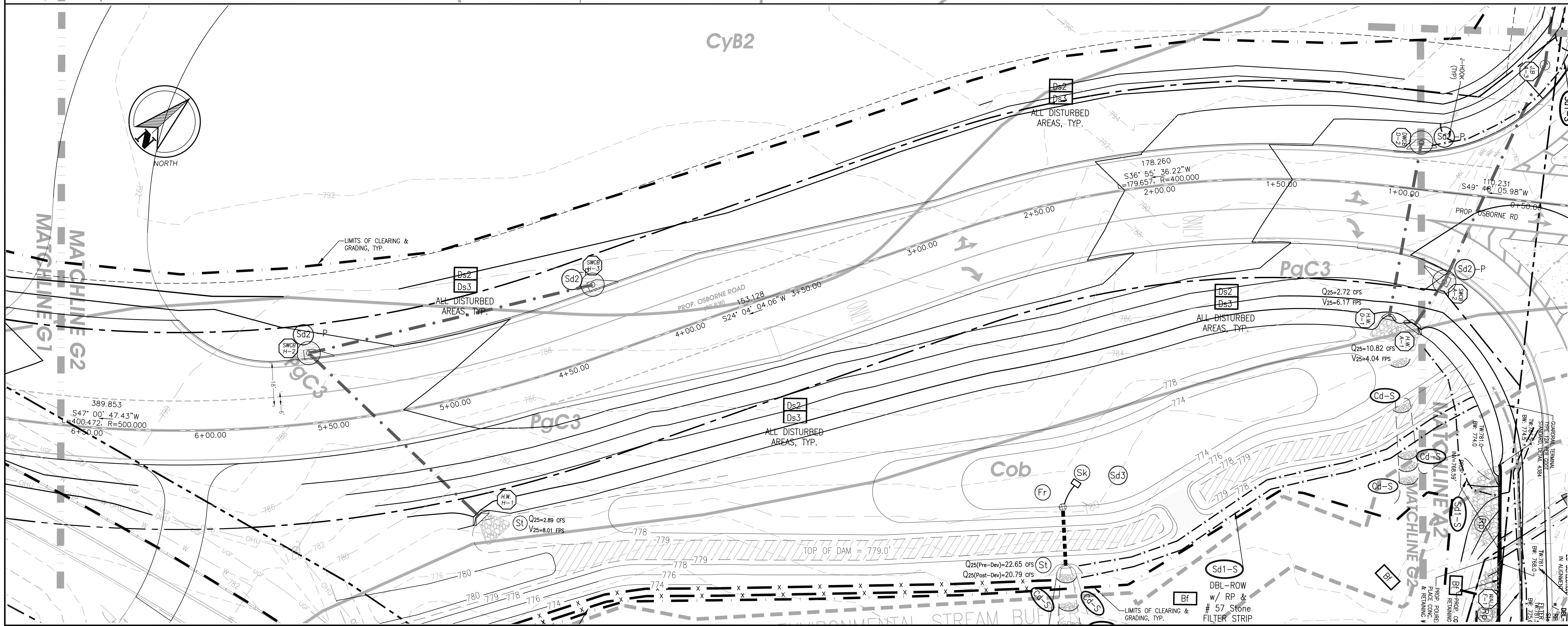
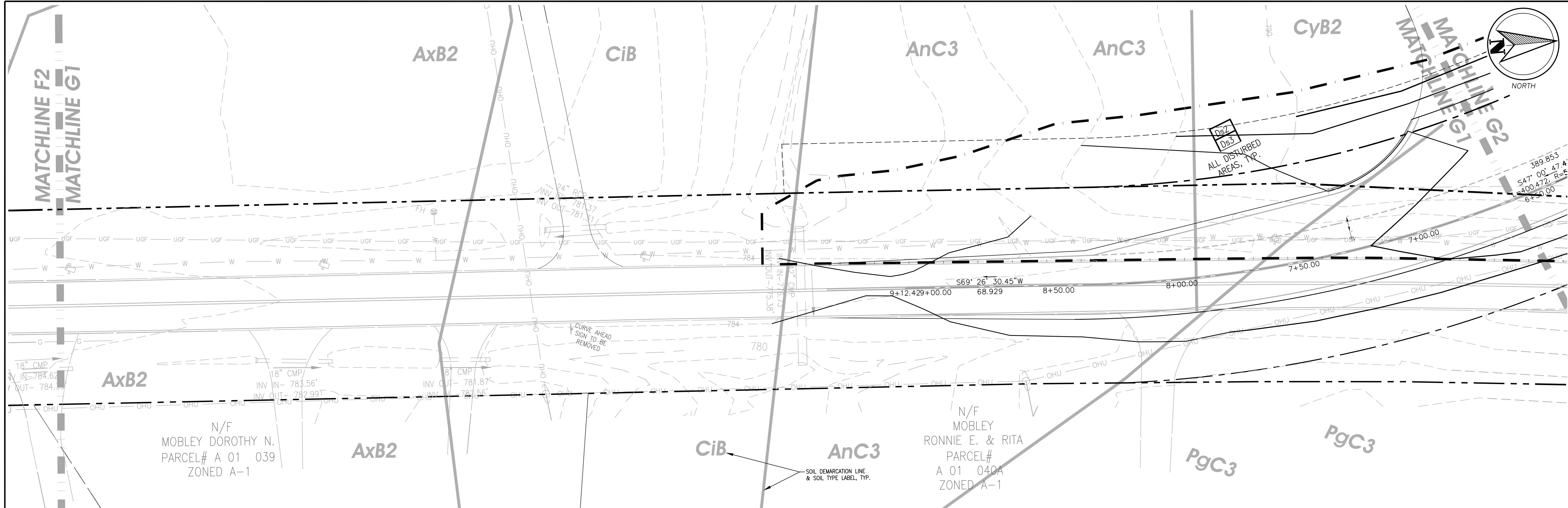
REVISIONS	DATE
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DATE: 2-19-18
 PROJECT #: 17-021-48
 GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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VICINITY MAP SCALE: 1 = 1,200'



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ES&PC PHASE III - FINAL PLAN G

ISSUED FOR BIDDING

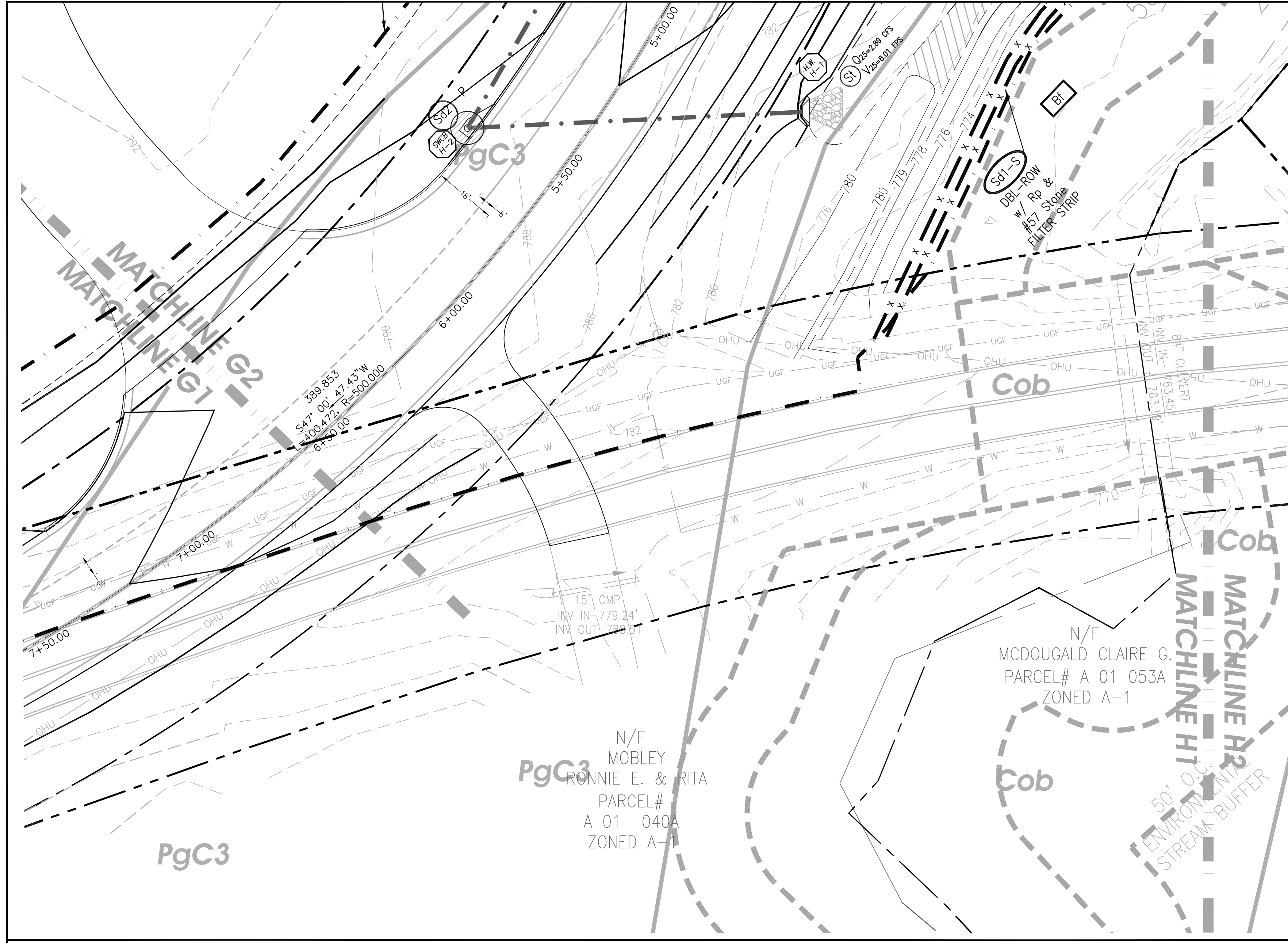
3-15-18

REVISIONS	DATE
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GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

SHEET #
39
62



LEGEND OF SURVEY ABBREVIATIONS/ SYMBOLS

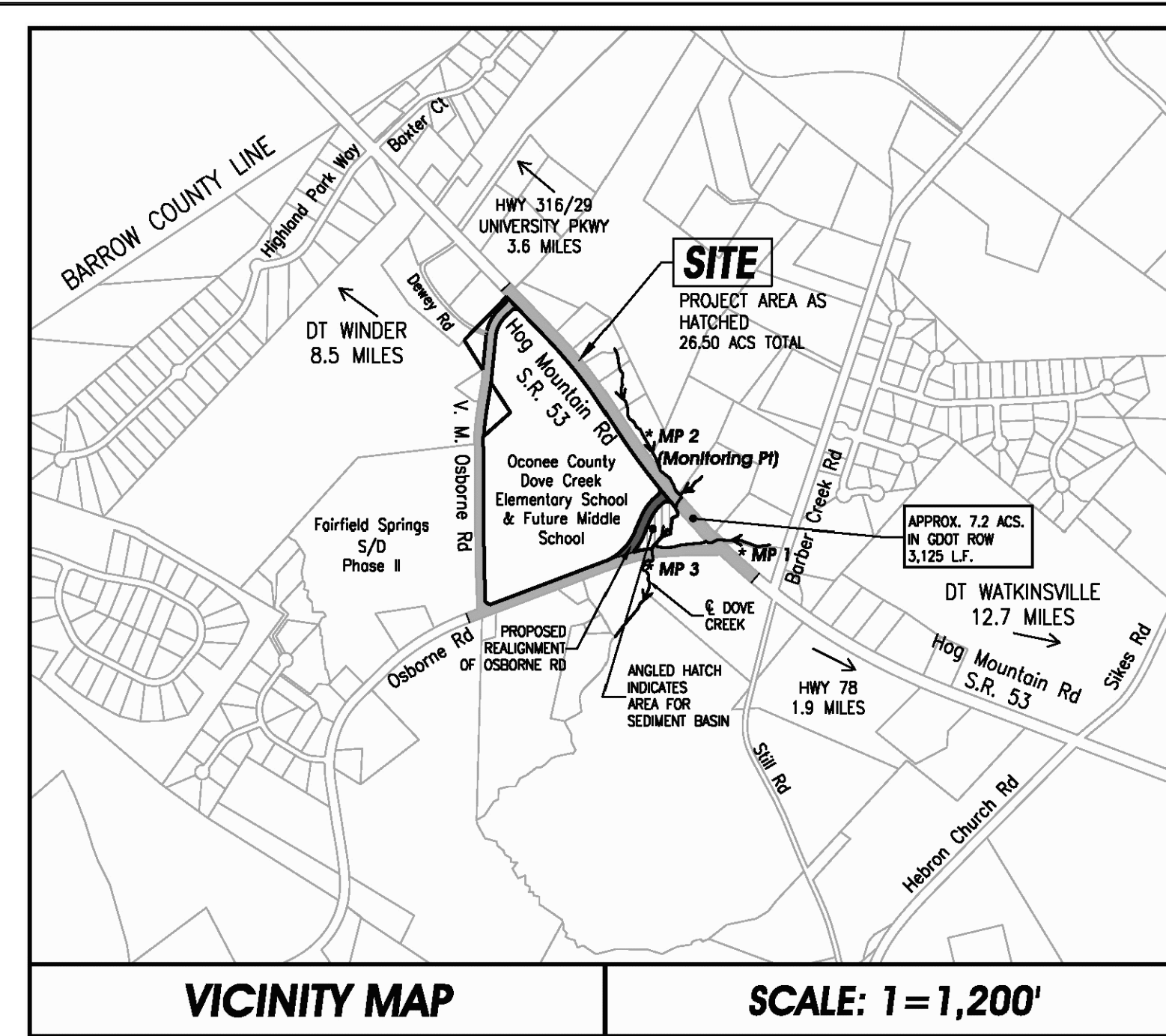
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IRON PIN FOUND		FIRE MAIN/LINE
(AS DESCRIBED)		
COMPUTED POINT (NO PIN)		
C.O.	CLEAN OUT	

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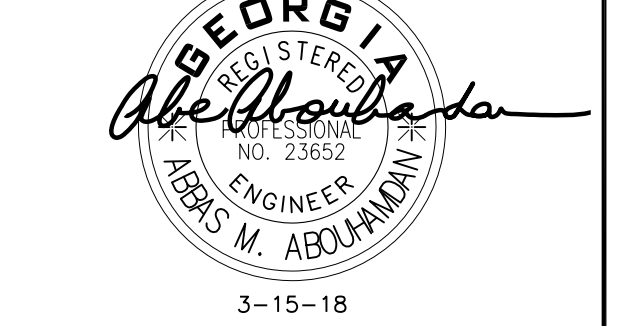
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GDOT DISTRICT# 1

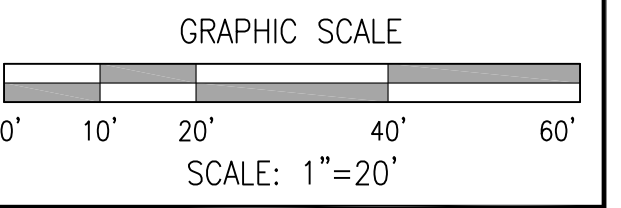
ES&PC PHASE III - FINAL PLAN H

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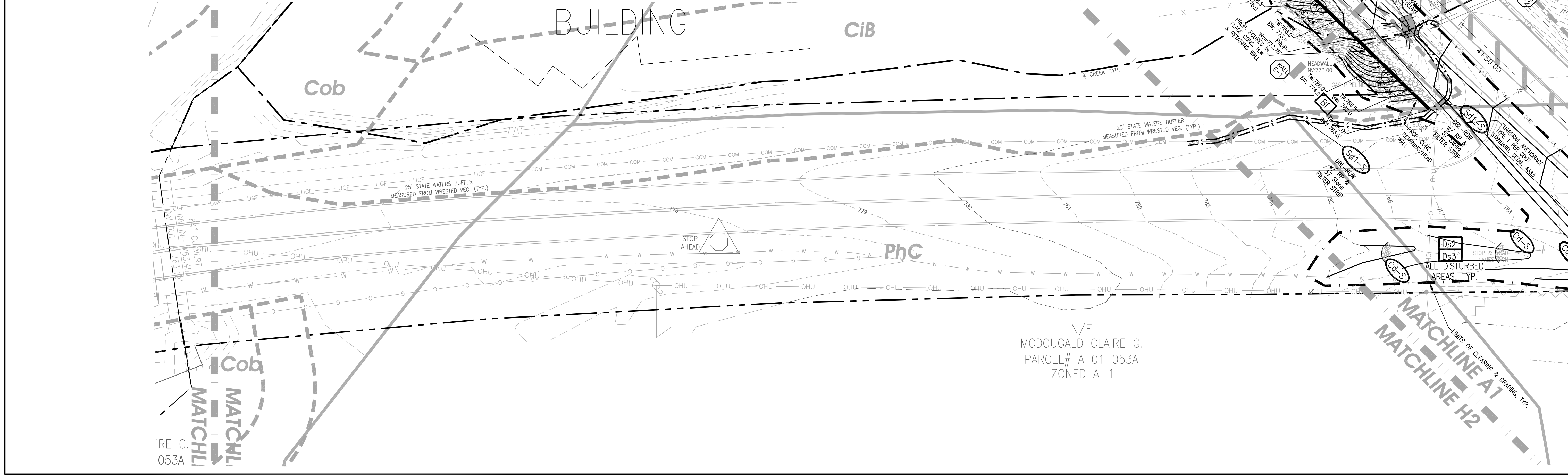


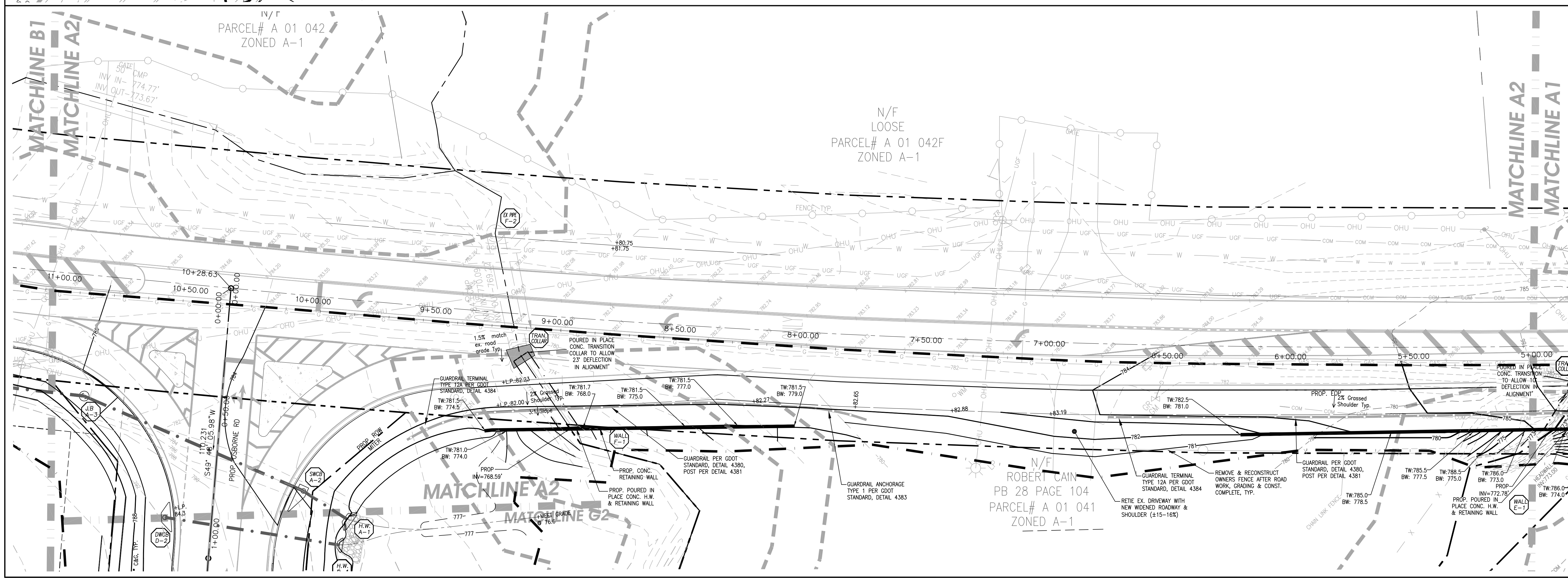
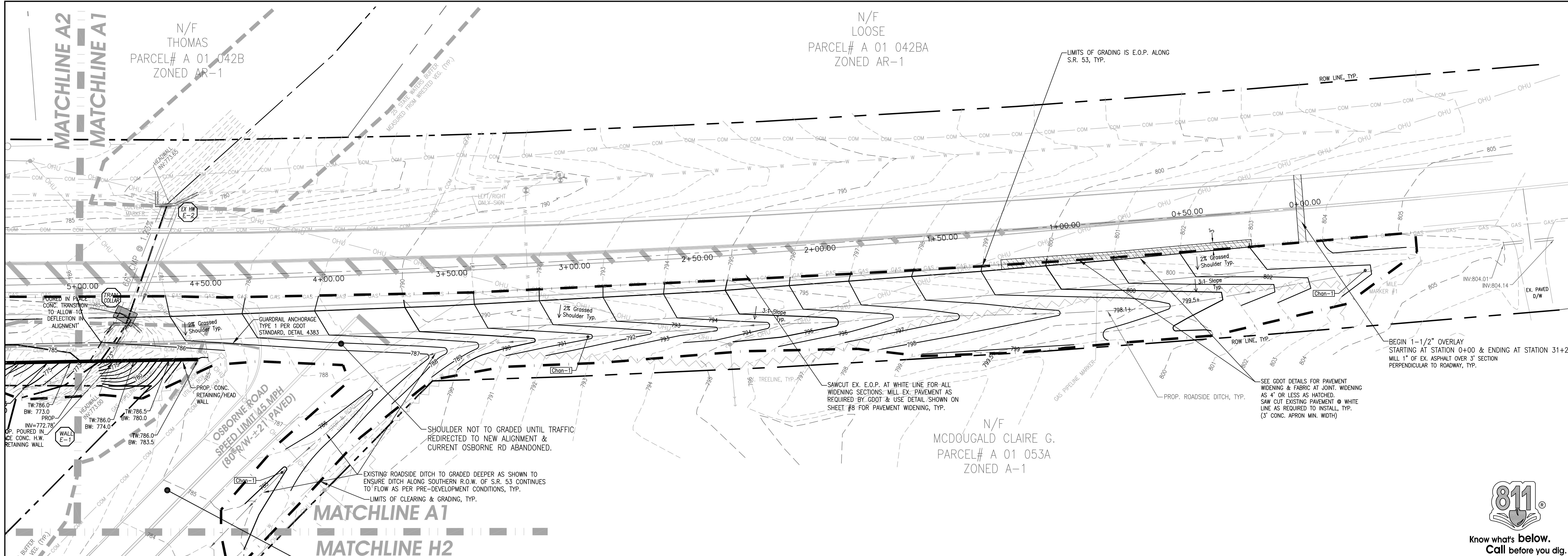
REVISIONS	DATE
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SHEET #
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DOVE CREEK SCHOOL R/W IMPROVEMENTS

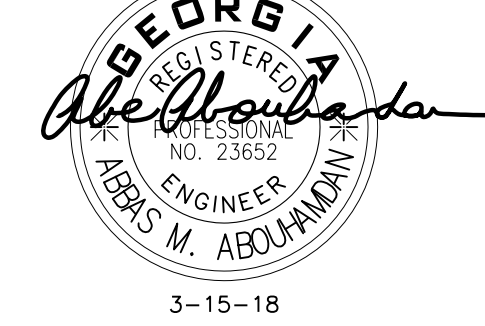
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DATE: 2-19-18
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GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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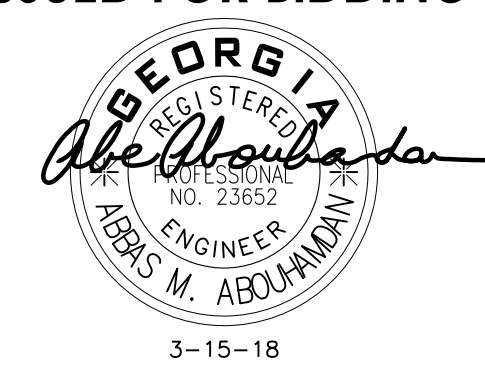
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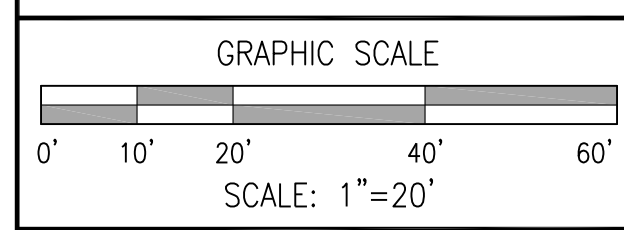
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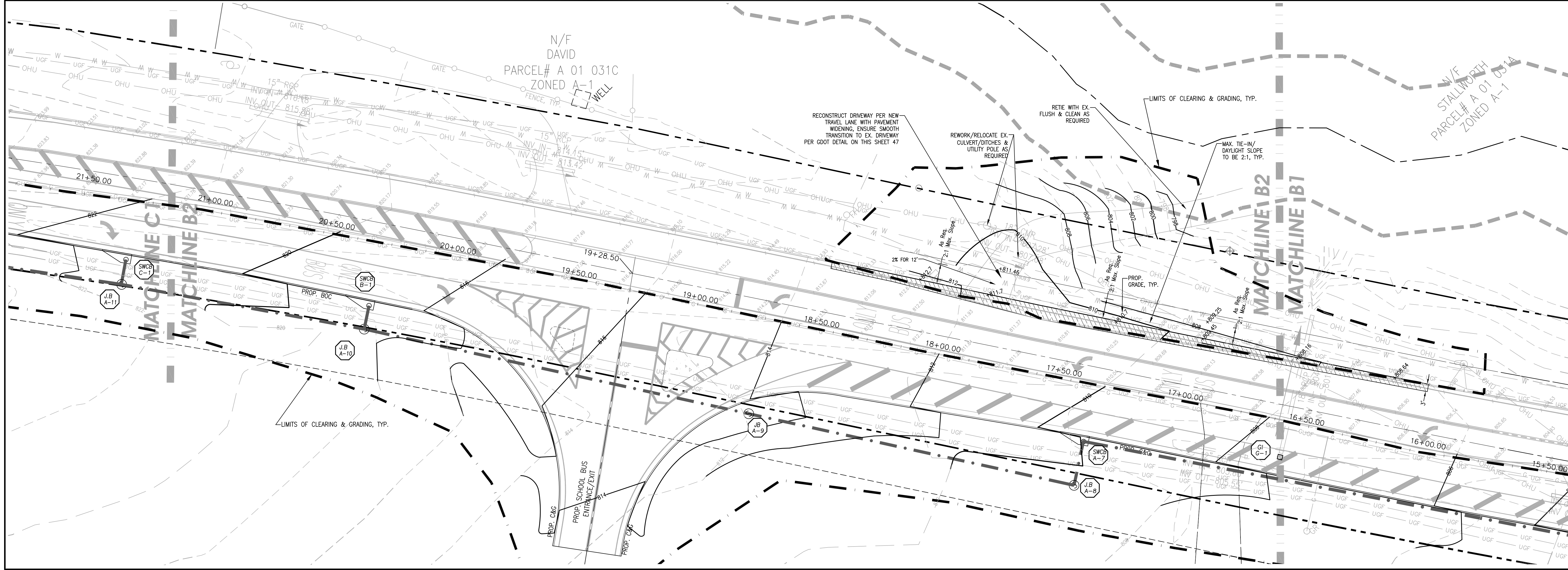
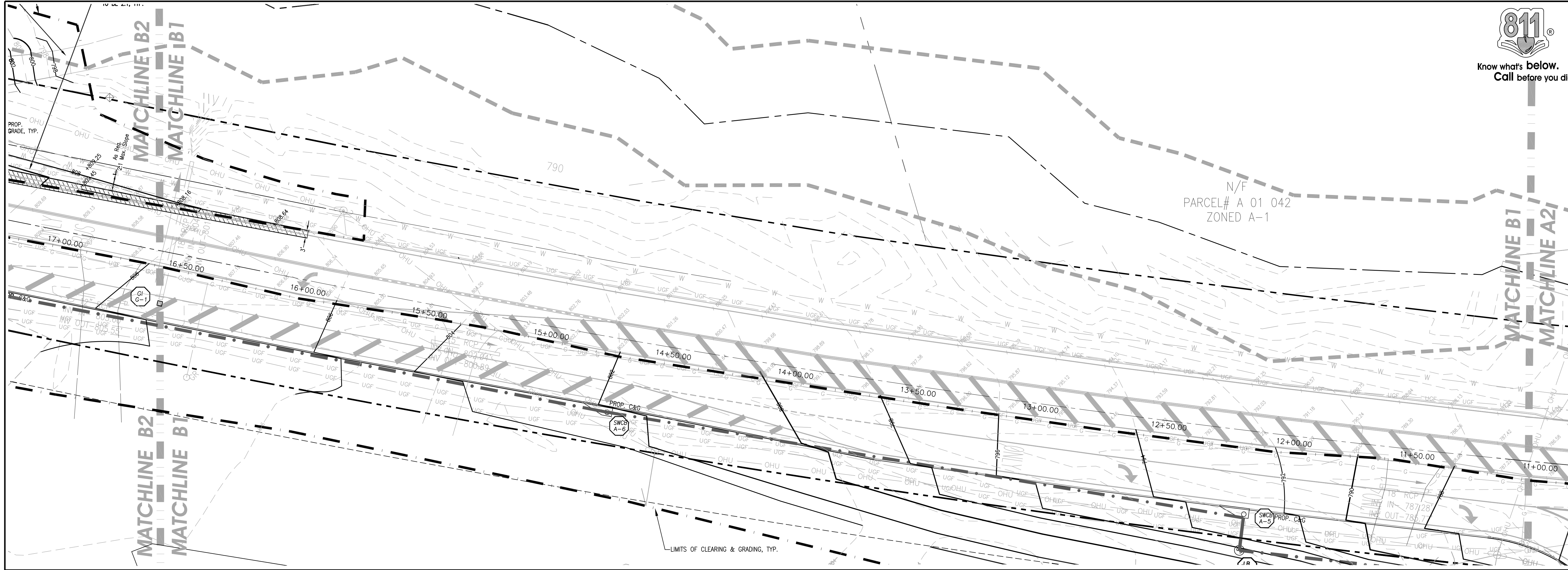


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GRADING PLAN C

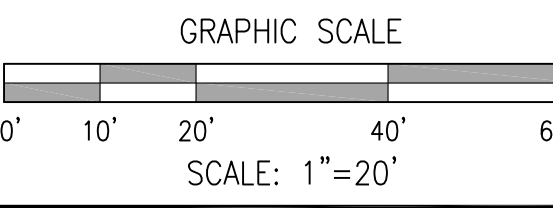
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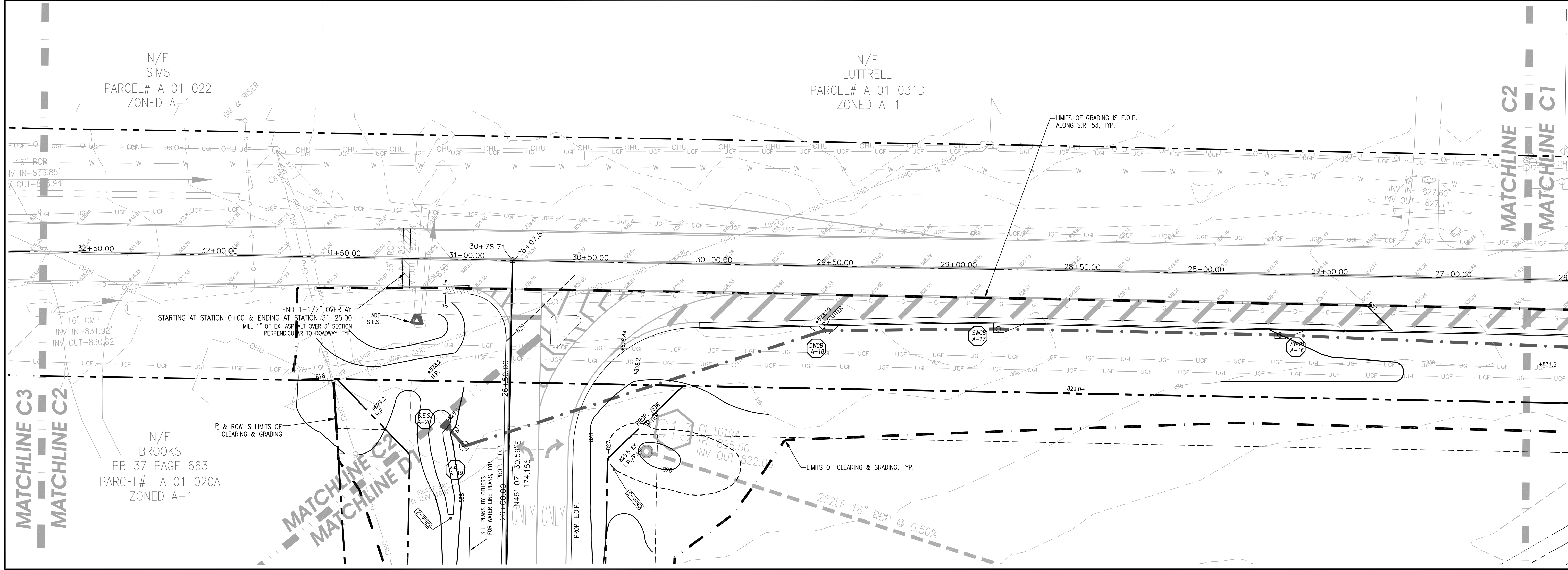
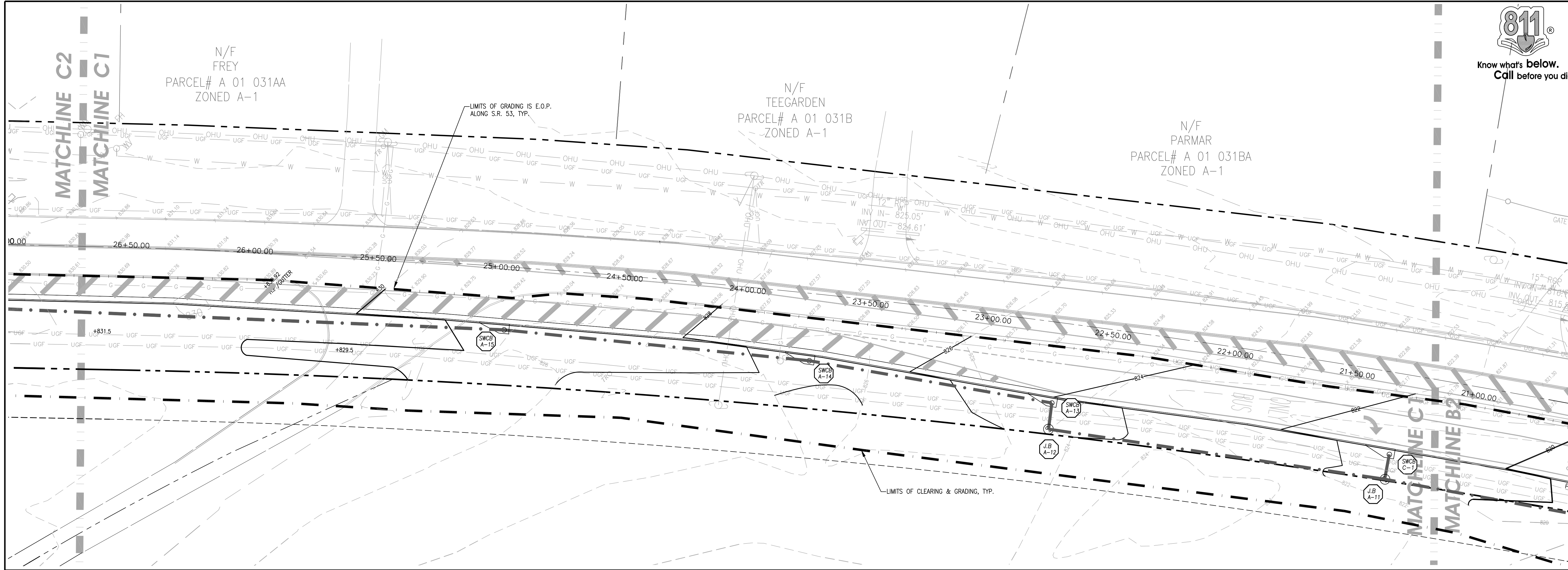
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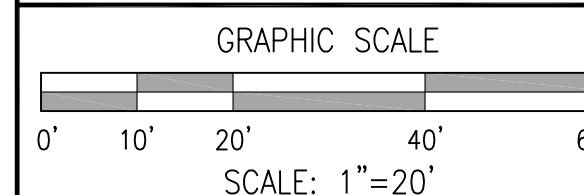
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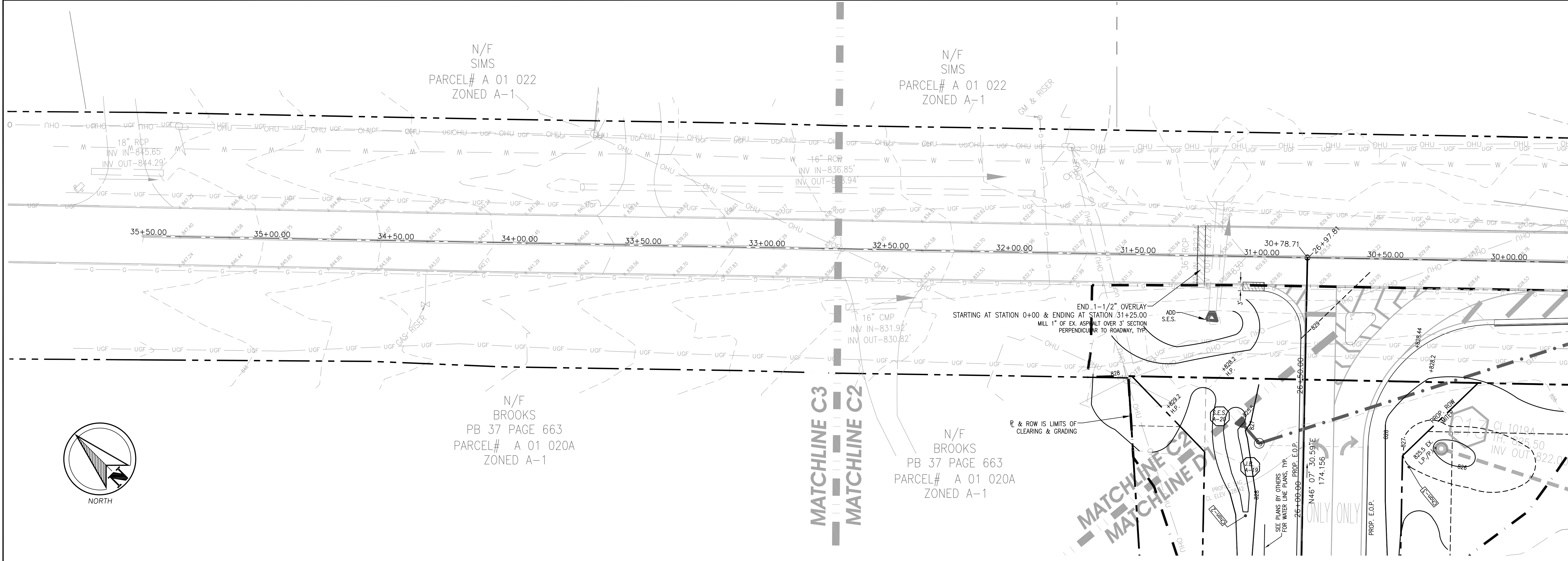


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- GRADING NOTES:**
- Ground surface shall be stripped of vegetation including grass, roots, debris, top soil and surficial organics; unsuitable soils and deleterious materials shall be removed from ground surface prior to placement of fill materials. Unsuitable soils shall be removed & replaced with suitable or structural fill.
 - Areas steeper than 2 vertical to 1 horizontal (2:1) shall be roughed or plowed for breaking up the surface to allow for better bonding with fill materials. Where existing ground surface has a density less than specified, the area must be plowed, pulverized, augmented with soil conditioning, moisture content adjusted for optimum compaction, and compacted to required depth and specified compaction.
 - All fill areas shall be compacted to a minimum of 98% standard proctor. Fill shall be placed in uniform layer of loose soil between 8-10" for compaction by heavy equipment and 4" for hand-operated tampers.
 - Optimum moisture content shall be achieved during compaction operations. Compact each uniform layer to required compaction classifications.
 - Fill materials or backfill shall not be placed on muddy, frozen, or areas containing frost, ice, or snow.
 - Compact subgrade and layer of fill/backfill to minimum of 95% of the standard proctor to a depth of 6" below bottom of finished grade. The foot print of building must have a compaction of standard proctor to 12" to 18" below bottom of finished grade.
 - Where moisture is required for optimum moisture content, uniformly apply water to surface of fill layer. Moisture or water shall be applied in minimum quantities as necessary to prevent excessive or free water from accumulation on surface during compaction operations.
 - Wet soil materials shall be removed and replaced, or air-dried by scarifying, spreading, and discing until the optimum moisture content is reached.
 - All cut and fill slopes shall be less than or equal to 2 vertical to 1 horizontal (2:1) slopes unless otherwise specified on the plans.
 - Compaction testing shall be performed on each sub-grade and backfill or fill layer before further fill or construction is performed. Test samples shall be random at a rate of one test per 10,000 SF of each 2' lift unless other wise specified by a registered Geotechnical Engineer. Recommendations from a registered Geotechnical engineer shall supersede specification for compaction and backfilling indicated in this section. Compaction testing shall be performed by an approved soil and compaction testing agency. Compaction test will be required prior GAB placement or C&G construction.
 - The Contractor shall notify the Engineer/Owner immediately upon discovery of any ground water, subsurface seepage or springs during construction. A Geotechnical Engineer shall inspect the site and make necessary remediation recommendations prior to commencing construction.
 - Proof rolling will be required by the Owner, Engineer and local permitting agencies on all graded areas to be paved.
 - Encroachments within tree protection areas shall be prohibited. No parking, storage, or any construction activity shall take place within specified tree protection areas.
 - Water, sewer, and storm sewers shall be installed in strict adherence to the Oconee County AND/OR GDOT standards and regulations.
 - Sediment Pond Maintenance:
 - regularly inspect pond for accumulated silt and debris.
 - remove silt when it reaches 1/3 of pond specified depth.
 - remove temporary structures when site is stabilized and construction is completed.
 - re-grade and re-grass area to specified finished grade.
 - Detention Ponds Maintenance:
 - Inspect the pond outlet structure and dam once every 6 months. Address any repairs that may be required.
 - Remove accumulated debris and silt from around the outlet structure.
 - insure outlet protection is in place.
 - insure safety fence, if required, is in place and functional.
 - Re-grass eroded or bare areas as required.
 - Construction sites that involve over 1.0 acre of disturbed areas shall be required to submit a N.O.I. to the local E.P.D. office, as required by NPDES GAR 10000 (1,2, or 3). contractor shall be listed as permittee/operator. Contractor shall provide NPDES monitoring, testing, inspections & reporting per GA EPD.
 - The Contractor shall be responsible for public safety during construction. The Contractor shall be responsible to follow OSHA guidelines for safe practices and excavations.
 - Grading shall provide a minimum of 2% slope on pervious areas and 1% minimum on hard scapes unless otherwise specified on the plans. Slopes shall be constructed as specified on plans.
 - The Contractor shall maintain access to the site to insure emergency vehicular access is not impeded.
 - Damage to public roadways and sidewalks beyond project areas shall be the sole responsibility of the Contractor.
 - Reservees
 - Property lines and rights-of-ways shall be marked and/or confirmed by the Contractor prior to footing inspection and/or commencing construction.
 - BMP's shall be installed as specified on the soil erosion and sediment control plans prior to grading activities. The tree save areas/protection areas shall be well marked at all times during construction.
 - All curb and gutter sections shall be highback unless otherwise specified on the plans.
 - All curb and gutter sections shall be highback unless otherwise specified on the plans. Unsuitable soils shall be removed, undercut, and replaced with suitable soil or #57 gravel as specified by Engineer.
 - H/C ramps and sidewalks, when accessible, shall be constructed in accordance with the Americans with Disabilities Act (ADA), as amended. Ramps shall have proper hand/safety railing and shall not exceed 8.33% slope. Sidewalks shall not exceed 5% longitudinal slope & 2% cross slope.
 - The Contractor shall coordinate utility construction and connections with the appropriate utility agencies. The Contractor shall be responsible for field verifications of all existing utilities (overhead and underground) prior to construction. Inverts of existing sewer and storm drain lines shall be field verified prior to construction.
 - Any discrepancy found in the field in relation to construction plans shall cause the Contractor to stop work immediately and report the discrepancy to the Engineer ASAP.
 - Fill areas shall be compacted to minimum 98% standard proctor as specified on the plans prior to constrion of water lines, sewer lines and storm drain lines. Grades shall be established to plus/minus one foot of final grade prior to installation of water, sewer, and storm drain lines.
 - Pipe materials:
 - All corrugated steel pipe shall be Aluminized Corrugated Steel Pipe (ACSP), Type 2, 16 gauge minimum unless otherwise specified.
 - Asphalt Coated Corrugated Metal Pipe (ACOMP) may be used only when specified and approved by Engineer.
 - Reinforced Concrete Pipe (RCP) shall be Class III as specified under ASTM standards.
 - Double Wall Corrugated HDPE smooth invert Pipe shall only be used where specified by Engineer.
 - All areas where new pavements and curb and gutter are proposed to tie with existing pavements and curb and gutter shall be saw cut in straight line conforming to the proposed pavement. Existing and proposed pavements shall tie together flush and clean unless otherwise specified.
 - Storm water management shall be in accordance with county, state, and other appropriate Ordinances and Regulations in effect at time of construction plan approval.
 - Contractor shall be responsible for installing & maintaining, replacement of all ES & PC BMP's. (Structural & Non-Structural) Removal of Silt Fence as Required.

Regulations for Driveway & Encroachment Control Manual



4.8 Driveway Grades

In general, the grade of the driveway should be a continuation of the cross slope of the roadway that it connects to. Figure 4-6 illustrates allowable grades for driveways connecting to State Highways.

Figure 4-6 (A) shows the profile of a driveway connecting to the normal cross section of a highway. The cross slope of the highway should be maintained for a minimum distance of 12' beyond the edge of pavement.

Where the roadway pavement is super elevated, it is desirable to reduce the grade of the driveway below that of the super elevated pavement in order to reduce the amount of runoff draining across the highway. The grade of the driveway will be allowed to break at the edge of pavement. However, the difference in grade change must not exceed 0.08R/Lft.

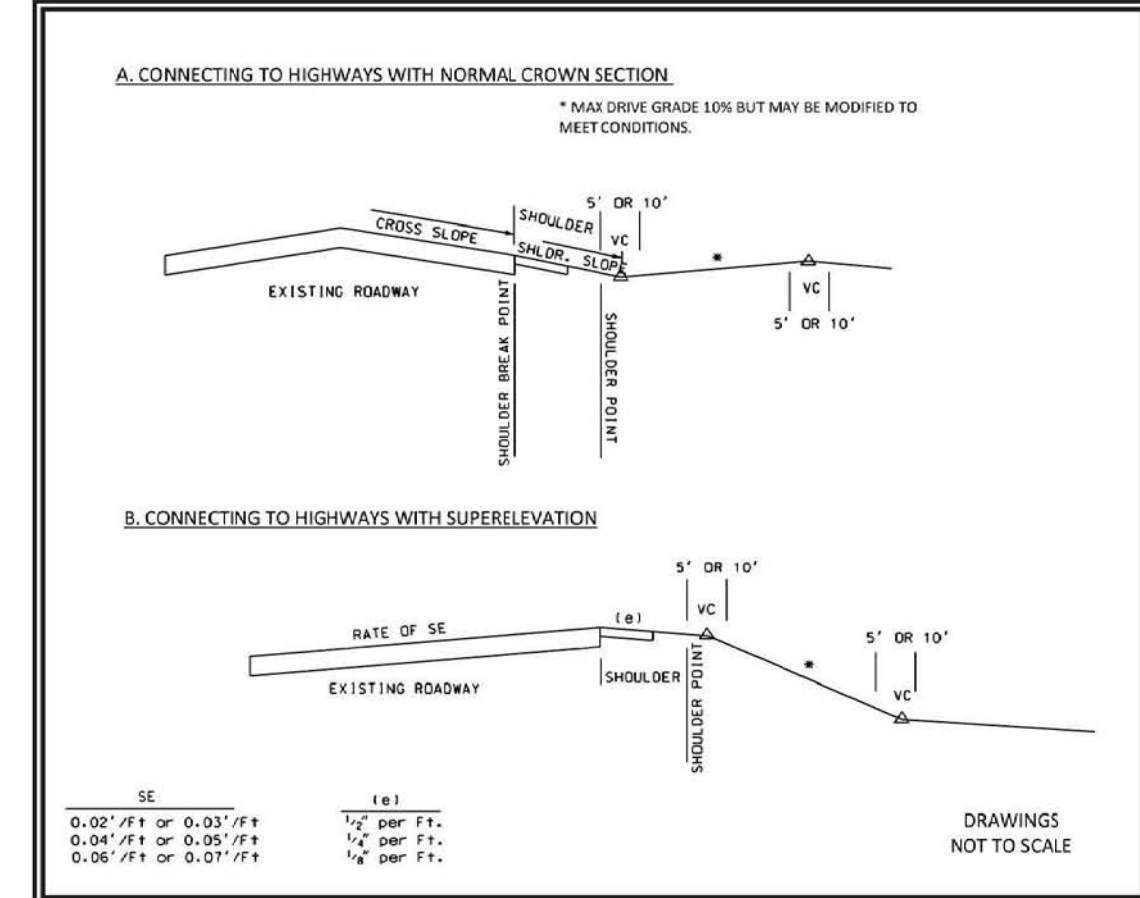


Figure 4-6 Allowable Driveway Grades

Rev 4.0 4. Design Criteria
 3/15/16 Page 4-11

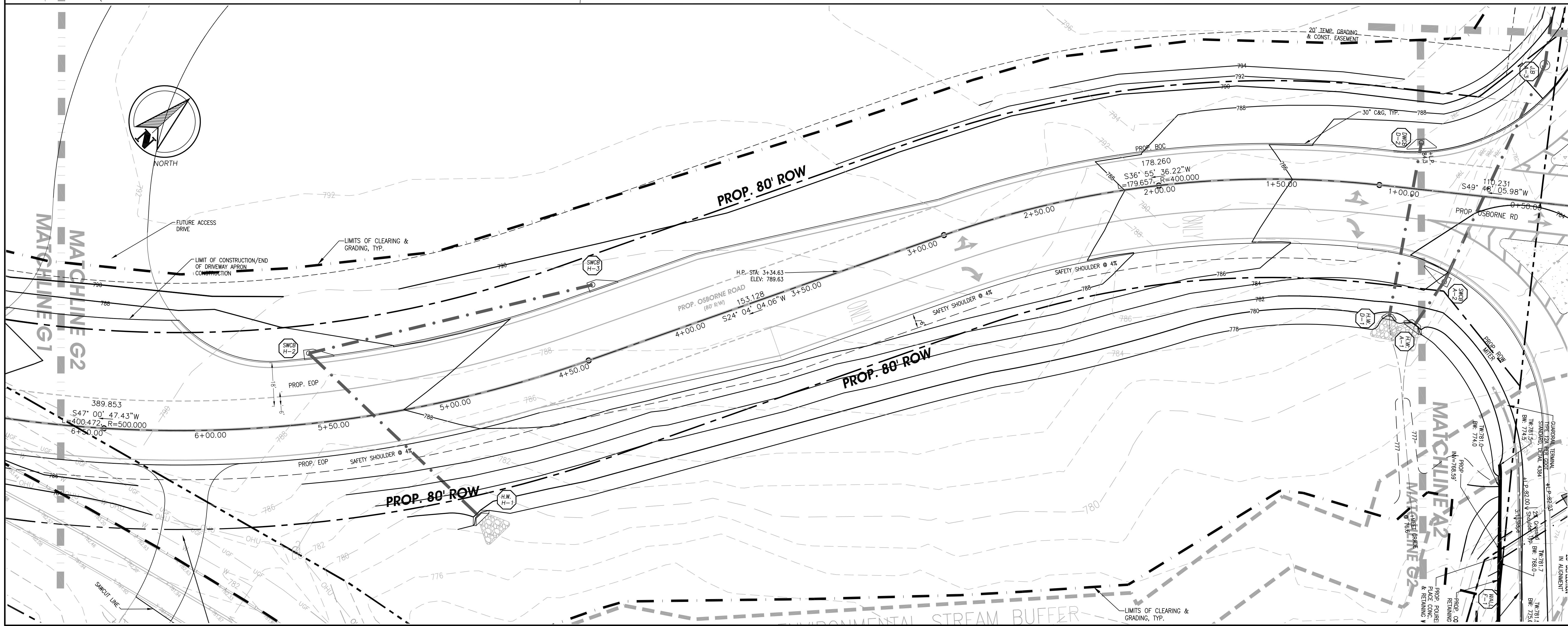
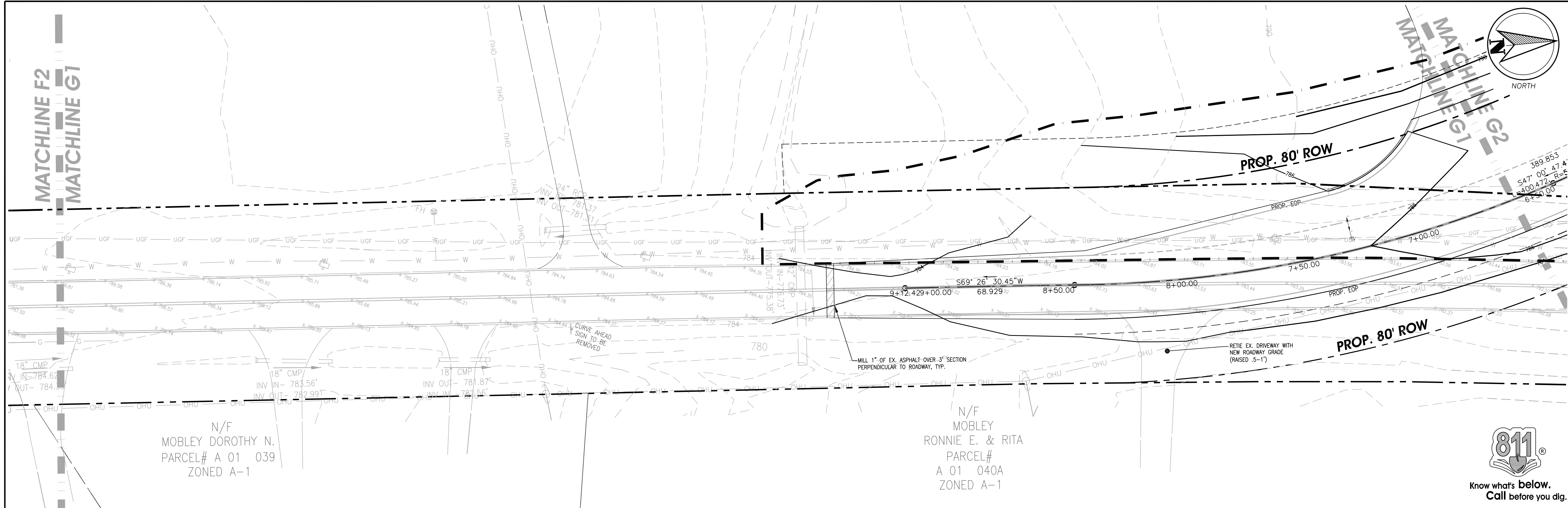
USE THIS DETAIL/FIGURE FOR RECONSTRUCTION @ STATION 17+80.00 ON S.R. 53
 (PROVIDE 2% TABLE/APRON FROM PROPOSED EDGE OF PAVEMENT FOR 12' @ 2%
 THEN RETIE TO EXISTING DRIVEWAY AS REQUIRED.)

GENERAL STORM & STORM STURCTURE NOTE:
 -ALL "CMP" PIPES SHALL BE ULTRA FLOW TYPE II ALUMINIZED.
 -ALL STORM STRUCTURES SHALL BE GDOT STANDARD STRUCTURES. THE STRUCTURES CAN BE PRECAST.
 -ALL JUNCTION BOXES TO BE GDOT STANDARD 9031U.
 -ALL C&G WITH GDOT ROW TO BE GDOT STANDARD 9032B TYPE 7

GDOT UTILITY NOTES:
 1. UTILITY RELOCATIONS MUST BE PERMITTED THROUGH THE GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
 2. ALL UTILITIES RELOCATED OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE UTILITY MANUAL, CURRENT EDITION.
 3. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
 4. UTILITY OWNERS MUST PROVIDE THE GDOT ACCESS/ENCHROACHMENT PERMIT NUMBER TO ANY GUPS PERMITS AS PART OF THE WORK DESCRIPTION.
 5. ALL NEW OR RELOCATED UTILITY POLES, GUYS & ANCHORS SHALL MEET CLEAR ZONE REQUIREMENTS.

UTILITY OWNERS:
 -WATER LINE: OCONEE COUNTY UTILITY DEPT.
 -OVERHEAD POWER: WALTON EMC/GA. POWER
 -GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
 -TELECOM/DATA: AT&T
 -TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS

GENERAL UTILITY NOTE:
 LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GRADING & PIPE INSTALLING, TYP. FOLLOW ALL REQUIREMENTS FOR CALLING 811 & GDOT NOTIFICATION/GDOR.



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GRADING PLAN G

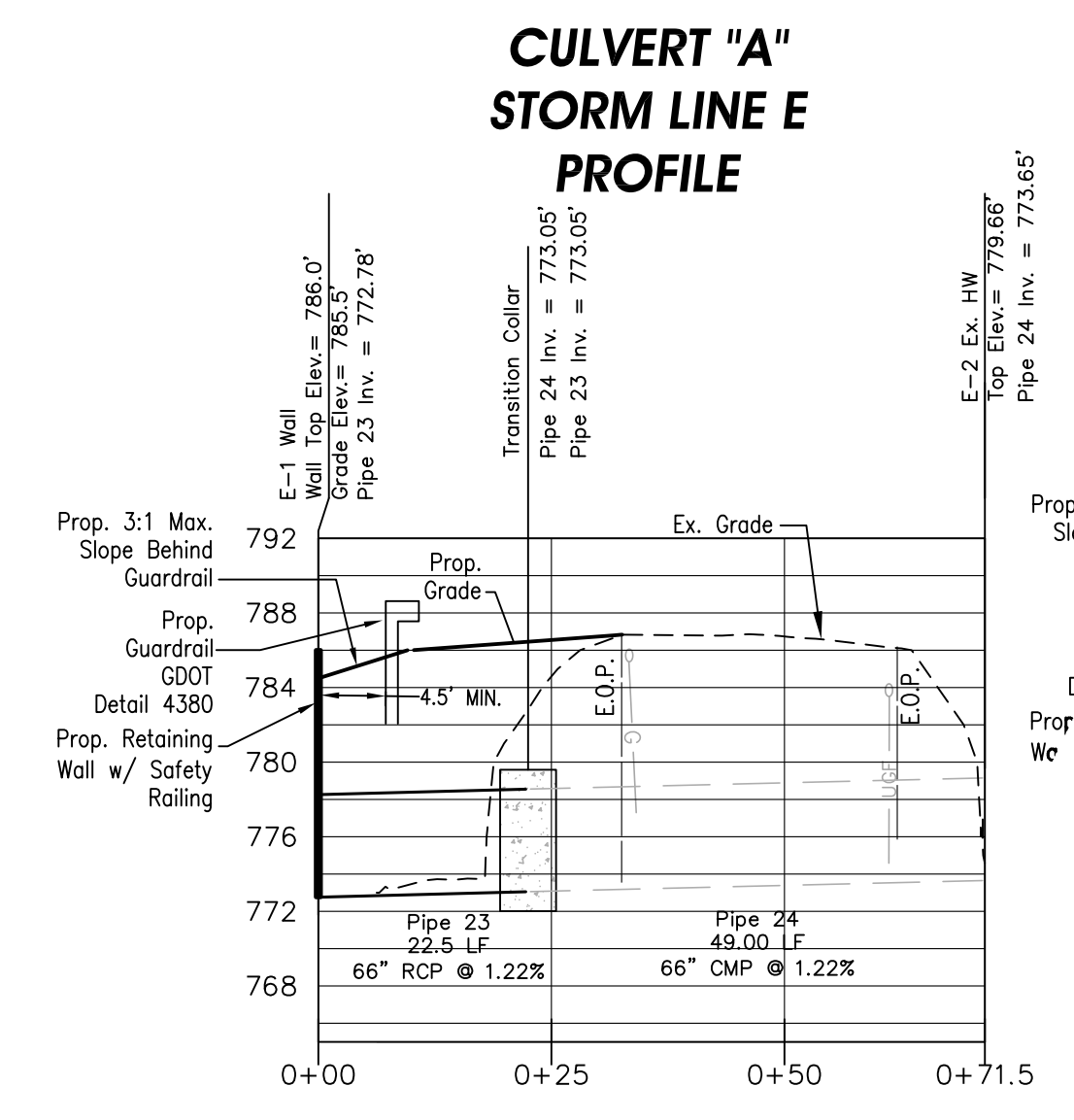
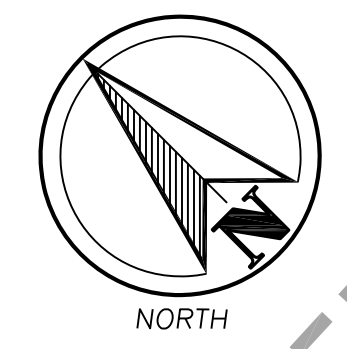
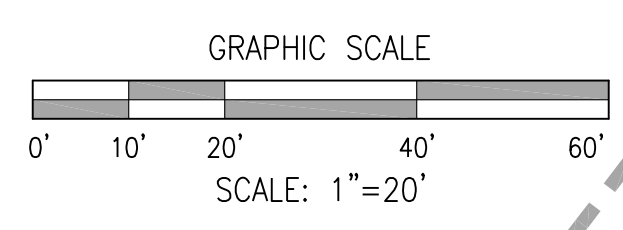
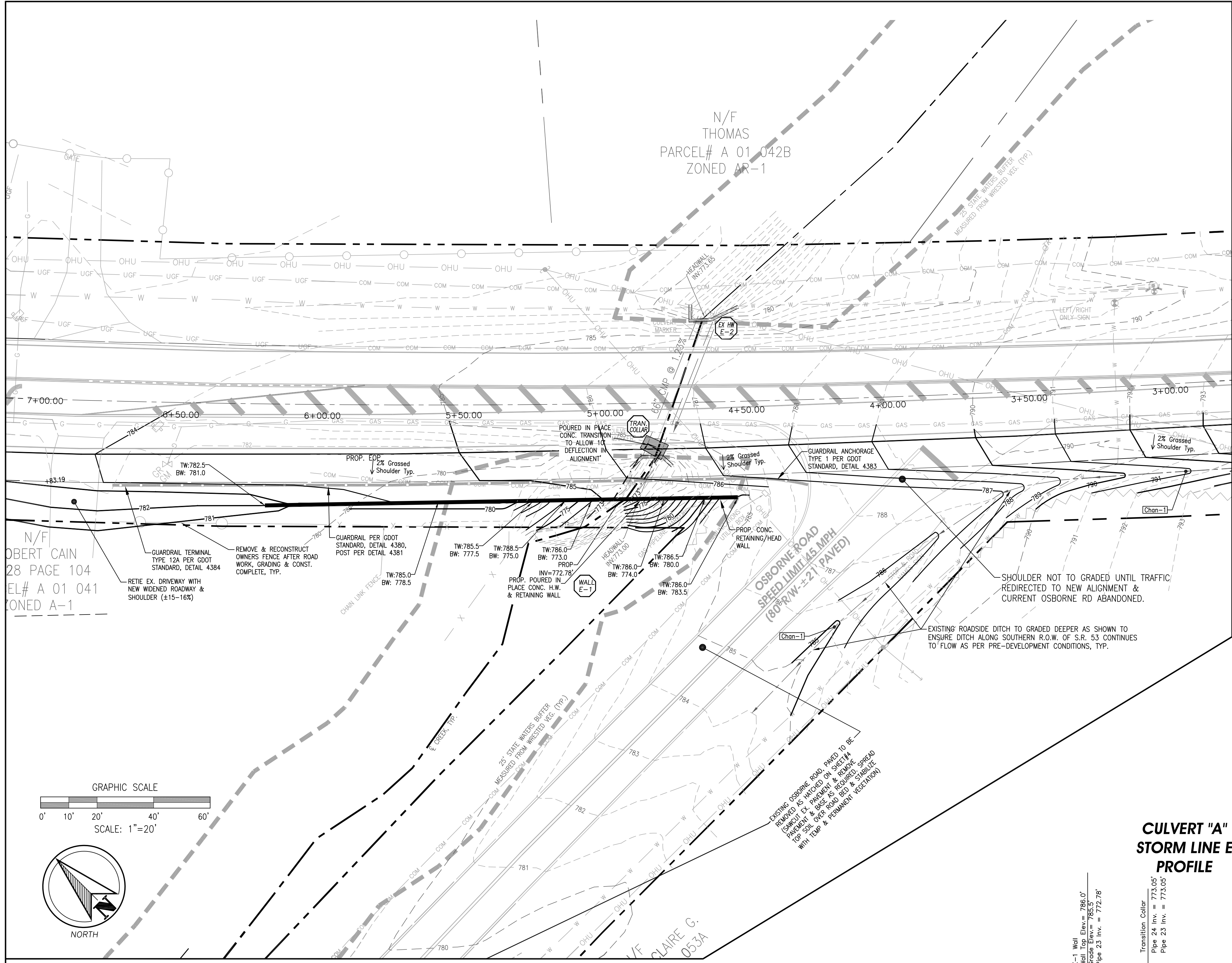
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GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



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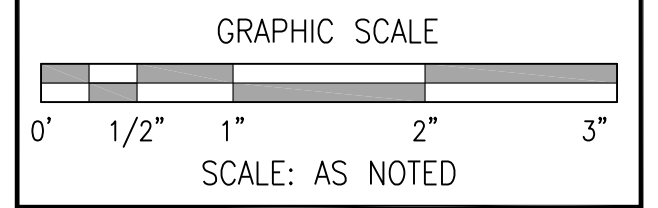
CULVERT CROSSING PLAN "A" & PROFILE

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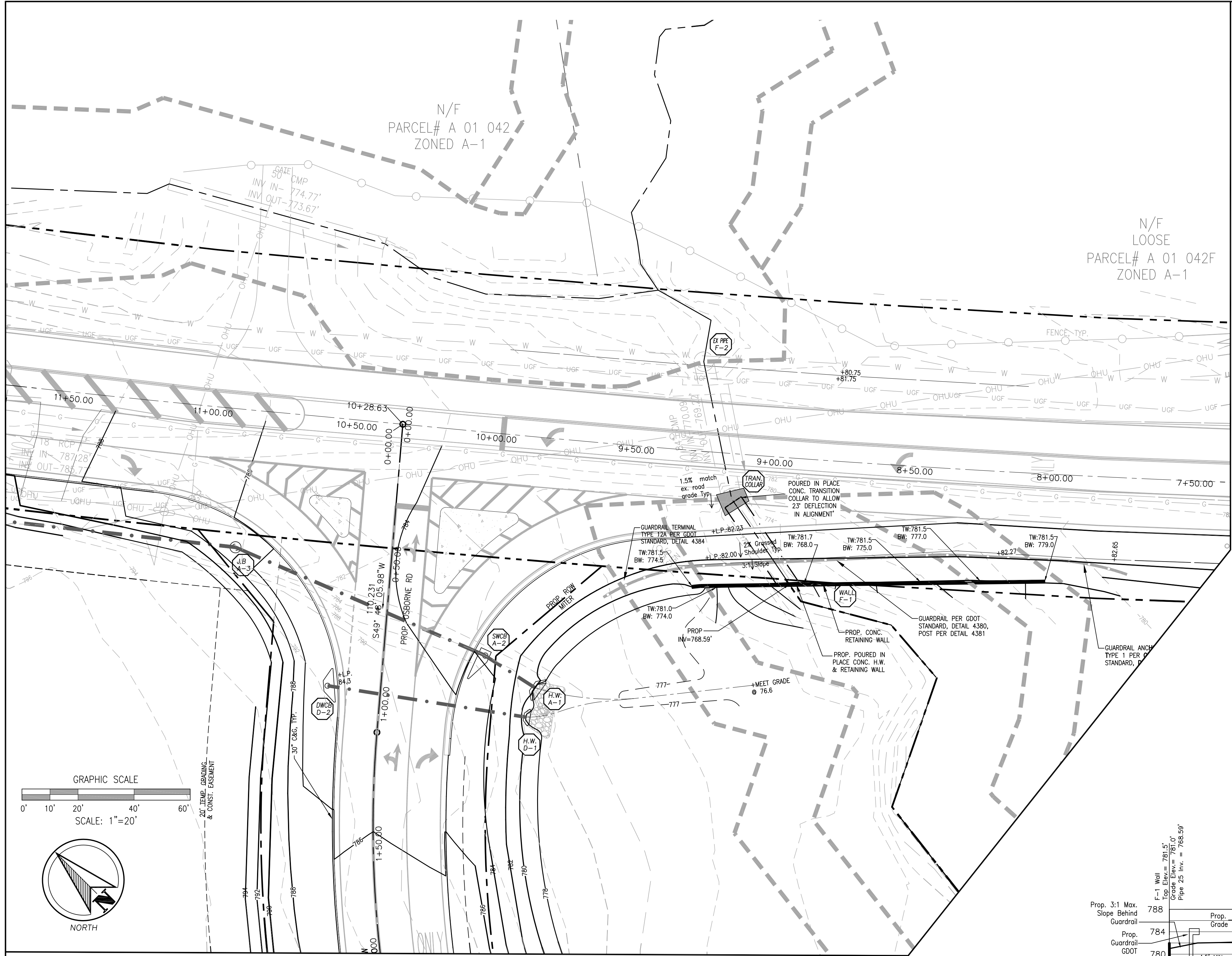


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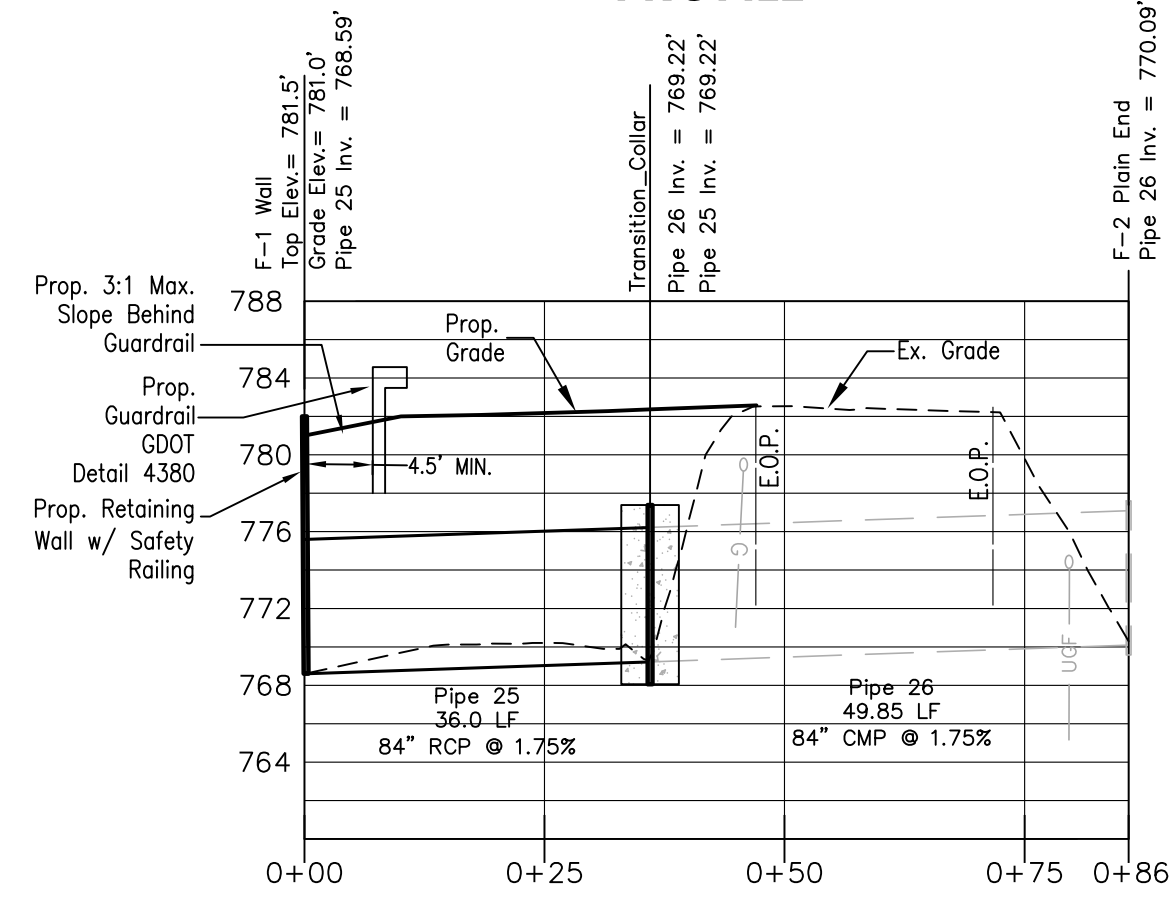
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**CULVERT "B"
STORM LINE F
PROFILE**



**HORIZONTAL: 1"=20'
VERTICAL: 1'=10'**



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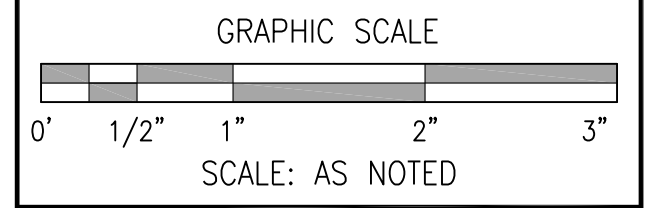
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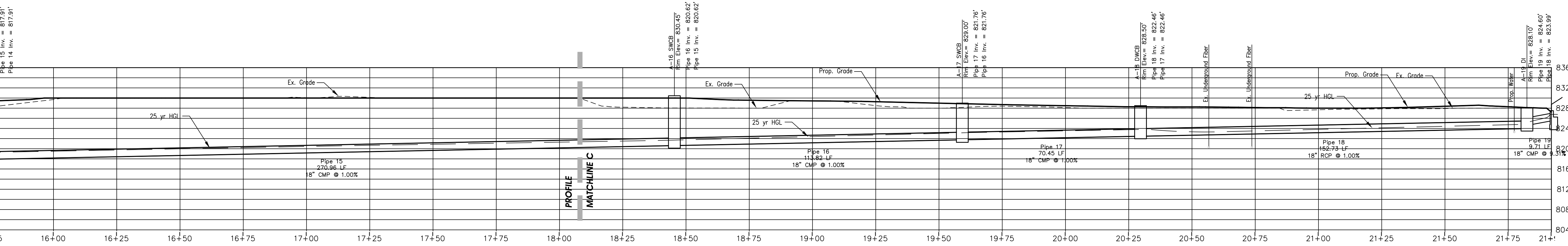
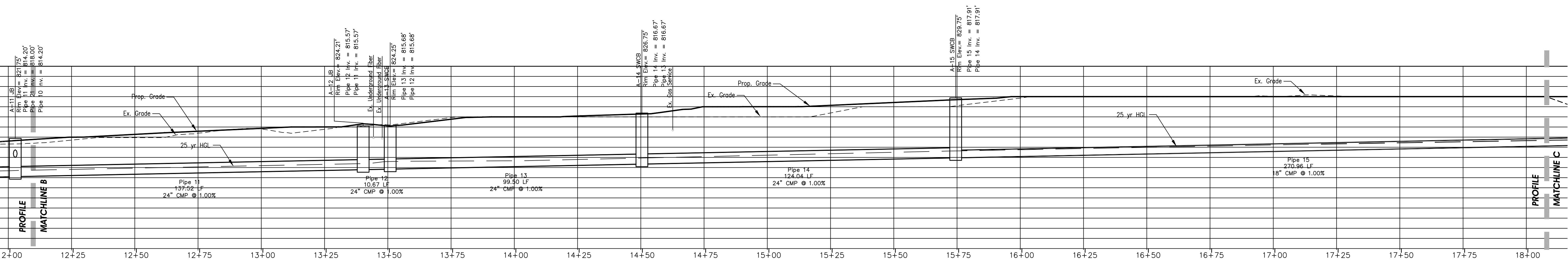
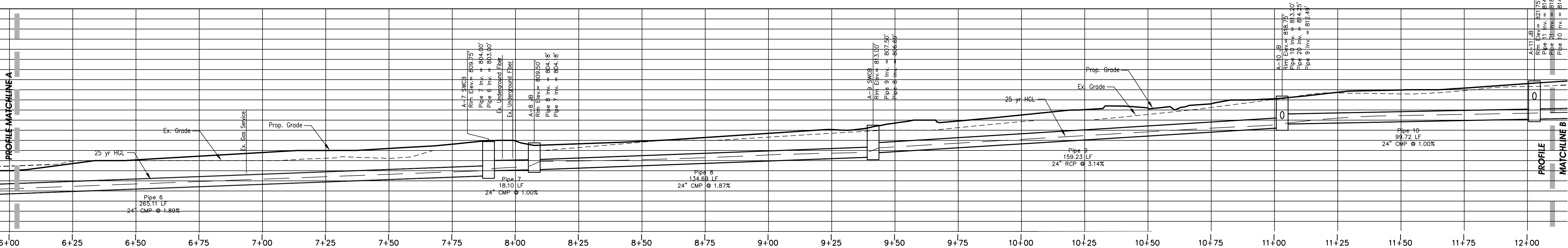
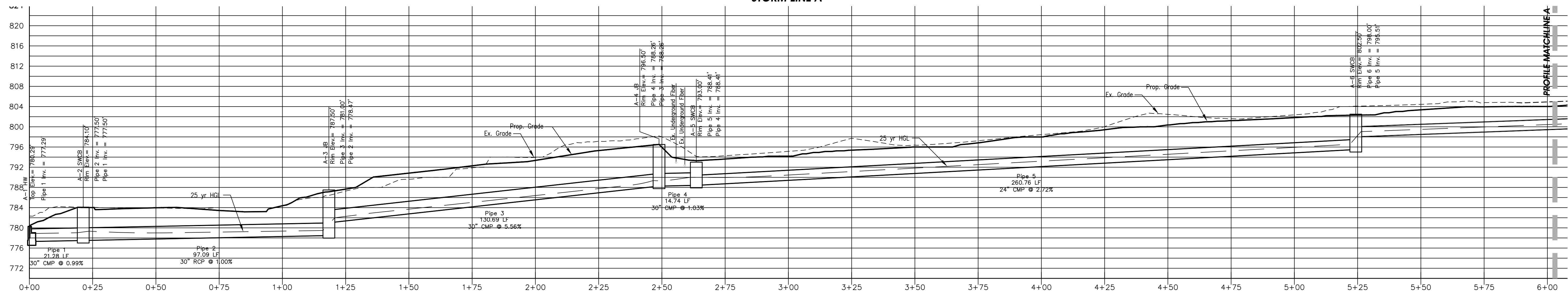
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STORM LINE A



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VERTICAL: 1'=10'



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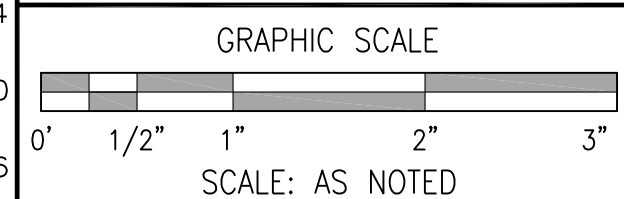
STORM PROFILES "A"

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DOVE CREEK SCHOOL R/W IMPROVEMENTS

7921 HOG MOUNTAIN RD.
 STATE ROUTE 53
 STATHAM, GA 30666
 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

STORM PROFILES B & CALCULATIONS (Pipe & St Chart)

ISSUED FOR BIDDING

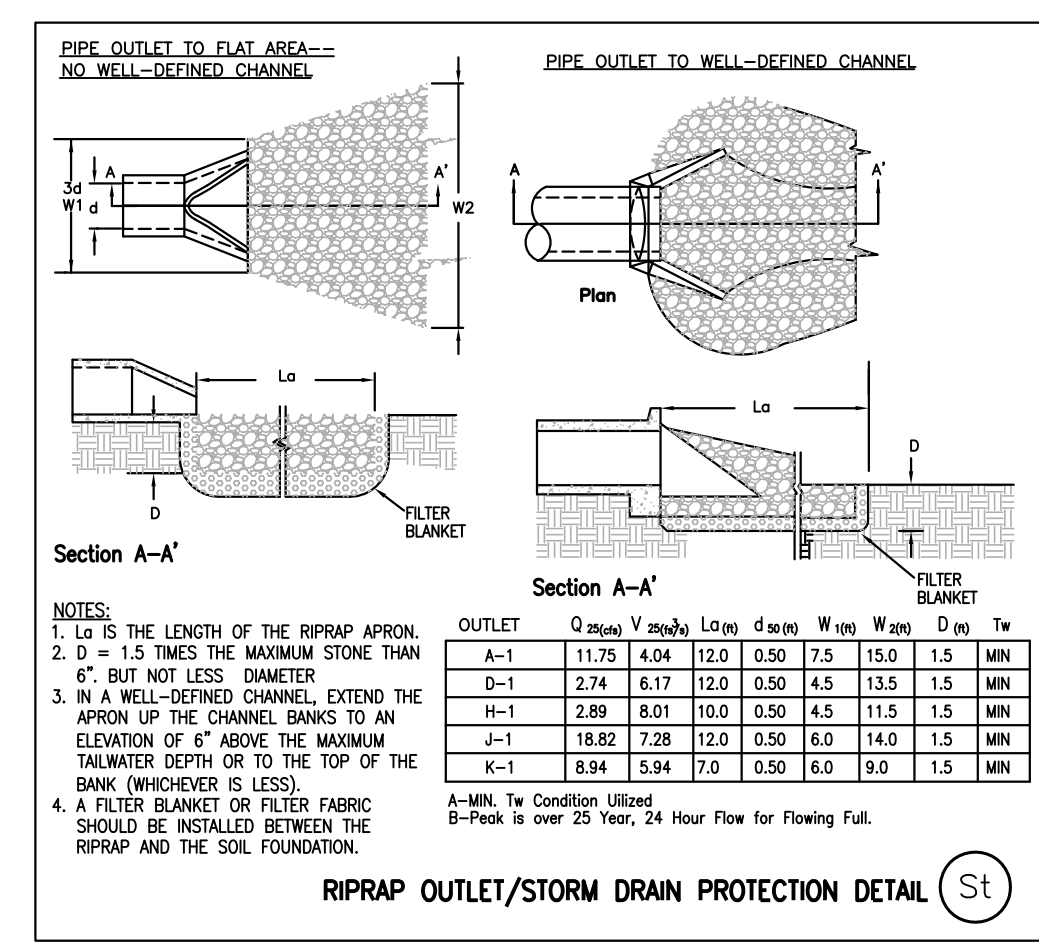
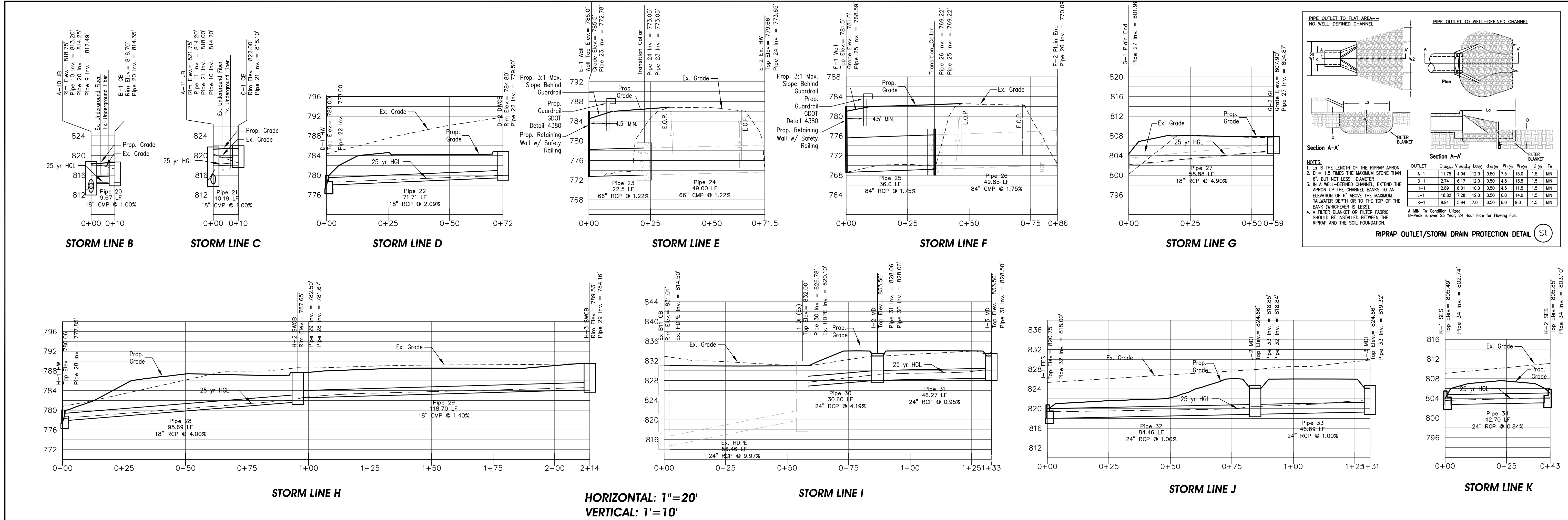


REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
 PROJECT #: 17-021-48

GRAPHIC SCALE
 0' 1/2" 1" 2" 3"
 SCALE: AS NOTED

SHEET #
 59
 62

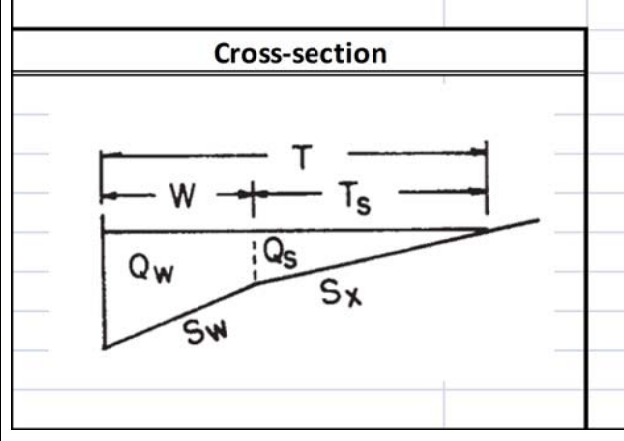


Pipe Chart (Hwy 53 "Hog Mountain Rd")

Pipe ID	From (Inlet) Node	To (Outlet) Node	Pipe Material	Upper Top/Top Elev. (ft)	Pipe Length (ft)	Upper Invert Elevation (ft)	Lower Invert Elevation (ft)	Pipe Slope (%)	Pipe Diameter (inches)	Manning's Roughness (n)	Contributing Inlet Flow (cfs)	Peak Flow (cfs)	Maximum HGL (ft)	Max Flow Velocity (ft/sec)
Pipe 1	A-2	A-1	CMP	784.10	21.28	777.50	777.29	0.99%	30	0.024	1.17	10.82	778.92	4.04
Pipe 2	A-3	A-2	RCP	787.50	97.10	778.47	777.50	1.00%	30	0.013	N/A	10.59	779.51	4.41
Pipe 3	A-4	A-3	CMP	796.50	130.69	788.26	781.00	5.56%	30	0.024	N/A	10.59	789.06	8.10
Pipe 4	A-5	A-4	CMP	793.50	14.74	788.41	788.26	1.02%	30	0.024	2.44	10.61	789.73	5.37
Pipe 5	A-6	A-5	CMP	803.00	260.76	795.51	788.41	2.72%	24	0.024	2.14	9.96	796.50	5.30
Pipe 6	A-7	A-6	CMP	809.75	265.06	803.00	798.00	1.89%	24	0.024	2.33	9.41	804.10	5.40
Pipe 7	A-8	A-7	CMP	809.50	18.09	804.18	804.00	1.00%	24	0.024	N/A	8.84	805.69	4.14
Pipe 8	A-9	A-8	CMP	813.00	134.69	806.69	804.18	1.86%	24	0.024	N/A	8.89	807.73	4.25
Pipe 9	A-10	A-9	RCP	818.75	159.23	812.49	807.50	3.13%	24	0.013	N/A	8.90	813.19	9.60
Pipe 10	A-11	A-10	CMP	821.75	99.72	814.20	813.20	1.00%	24	0.024	N/A	8.47	815.55	4.33
Pipe 11	A-12	A-11	CMP	824.21	137.52	815.57	814.20	1.00%	24	0.024	N/A	7.81	816.78	3.71
Pipe 12	A-13	A-12	CMP	824.25	10.67	815.68	815.57	1.03%	24	0.024	0.98	7.81	817.17	3.47
Pipe 13	A-14	A-13	CMP	826.75	99.50	816.67	815.68	0.99%	24	0.024	0.94	7.27	817.87	3.24
Pipe 14	A-15	A-14	CMP	829.75	124.04	817.91	816.67	1.00%	24	0.024	0.96	6.78	819.02	3.65
Pipe 15	A-16	A-15	CMP	830.45	270.96	820.62	817.91	1.00%	18	0.024	1.18	6.11	822.21	3.75
Pipe 16	A-17	A-16	CMP	829.00	113.82	821.76	820.62	1.00%	18	0.024	0.92	5.60	823.32	3.36
Pipe 17	A-18	A-17	CMP	828.50	70.45	822.46	821.76	0.99%	18	0.024	1.02	5.13	823.77	3.16
Pipe 18	A-19	A-18	RCP	828.10	152.73	823.99	822.46	1.00%	18	0.013	N/A	4.60	824.68	3.84
Pipe 19	A-20	A-19	CMP	827.50	9.71	825.50	824.60	9.27%	18	0.024	4.71	4.69	826.23	6.67
Pipe 20	B-1	A-10	CMP	818.70	9.67	814.35	814.25	1.03%	18	0.024	0.96	0.96	814.73	3.23
Pipe 21	C-1	A-11	CMP	822.00	10.18	818.10	818.00	0.98%	18	0.024	1.54	1.54	818.59	3.65
Pipe 22	D-2	D-1	RCP	784.80	71.69	779.50	778.00	2.09%	18	0.013	2.75	2.72	779.97	6.17
Pipe 23	Trans. Collar (E)	E-1	RCP	N/A	22.50	773.05	772.78	1.22%	66	0.013	N/A	N/A	N/A	N/A
Pipe 24	E-2	Trans. Collar (E)	CMP	779.66	49.00	773.65	773.05	1.22%	66	0.024	N/A	N/A	N/A	N/A
Pipe 25	Trans. Collar (F)	F-1	RCP	N/A	36.00	769.22	768.59	1.75%	84	0.013	N/A	N/A	N/A	N/A
Pipe 26	F-2	Trans. Collar (F)	CMP	777.60	49.85	770.09	769.22	1.75%	84	0.024	N/A	N/A	N/A	N/A
Pipe 27	G-2	G-1	RCP	807.90	58.88	804.87	801.99	4.98%	18	0.013	N/A	N/A	N/A	N/A
Pipe 28	H-2	H-1	RCP	787.50	95.69	781.67	777.85	3.99%	18	0.013	1.69	2.89	782.07	8.01
Pipe 29	H-3	H-2	CMP	789.53	118.70	784.16	782.50	1.40%	18	0.024	1.36	1.26	784.62	2.91
Pipe 30	I-2	I-1	RCP	833.50	30.60	828.06	826.78	4.18%	24	0.013	1.35	15.50	829.13	10.79
Pipe 31	I-3	I-2	RCP	833.50	46.27	828.50	828.06	0.95%	24	0.013	15.32	15.50	830.07	6.97
Pipe 32	J-2	J-1	RCP	824.66	84.46	818.84	818.00	0.99%	24	0.013	0.63	18.82	820.52	7.28
Pipe 33	J-3	J-2	RCP	824.66	46.69	819.32	818.85	1.01%	24	0.013	18.87	18.82	821.53	6.25
Pipe 34	K-2	K-1	RCP	805.85	42.70	803.10	802.74	0.84%	24	0.013	8.94	8.94	804.13	5.94

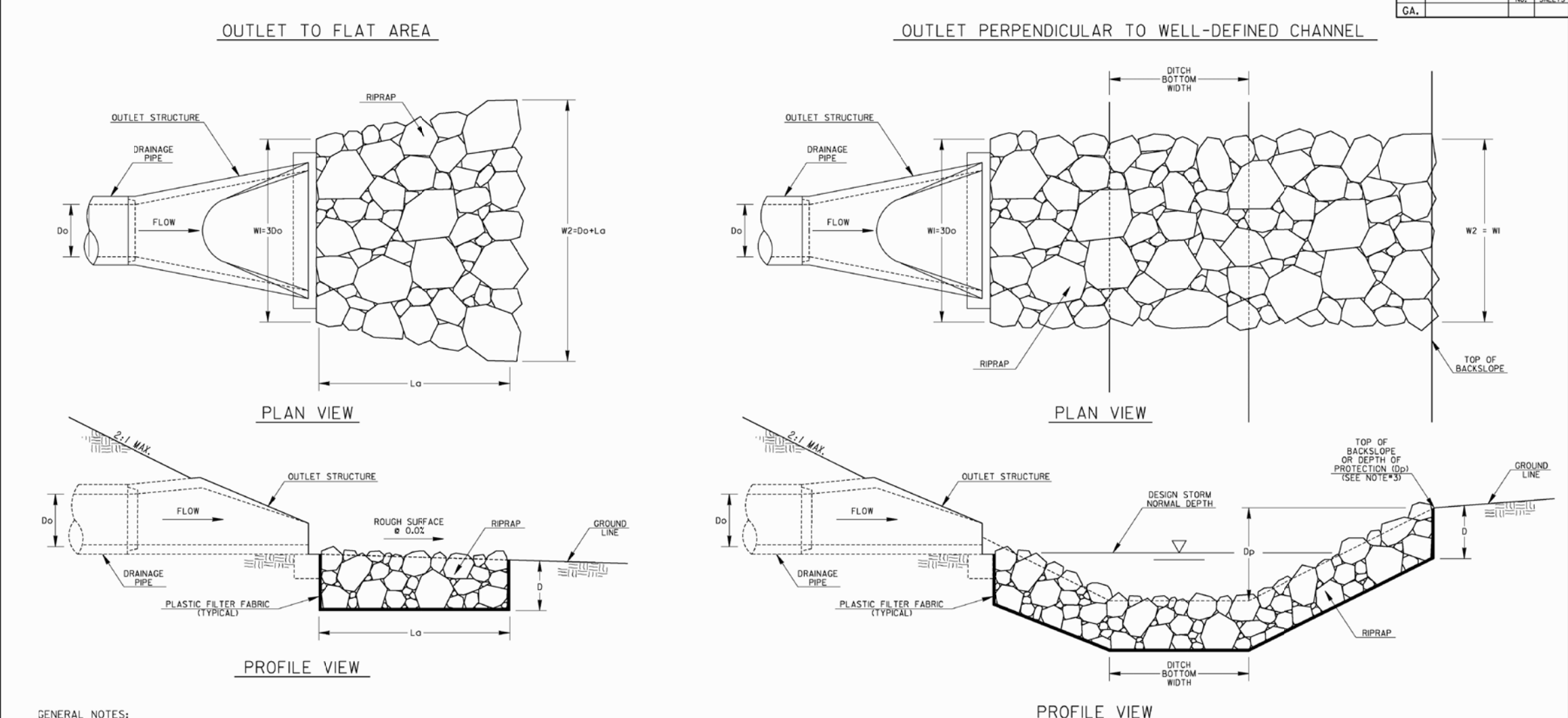
Gutter Spread Calculations for Composite Gutter Section

Inlet ID	Hydrology Inputs				Gutter Geometry							Results						
	DA (acres)	C	Tc (min)	Q (cfs)	S (ft/ft)	Sx (ft/ft)	Sw (ft/ft)	W (ft)	n	CB	T (ft)	Ts (ft)	Qs (cfs)	Q (total) (cfs)	Qw (cfs)	Efficiency	Q Intercept (cfs)	Q bypass (cfs)
A-2	0.15	0.95	5	1.04	0.03	0.02	0.16	2	0.016	12.00	2.00	0.00	0.00	1.81	1.81	100.0%	1.81	0.00
A-5	0.39	0.76	5	2.16	0.038	0.016	0.16	2	0.016	12.00	2.45	0.45	0.00	2.16	2.16	100.0%	2.16	0.00
A-6	0.32	0.81	5	1.89	0.02	0.005	0.16	2	0.016	2.00	7.35	5.35	0.06	1.89	1.83	100.0%	1.89	0.00
A-7	0.34	0.83	5	2.06	0.034	0.025	0.16	2	0.016	12.00	2.33	0.33	0.00	2.06	2.06	100.0%	2.06	0.00
B-1	0.16	0.73	5	0.85	0.027	0.031	0.16	2	0.016	12.00	2.00	0.00	0.00	1.72	1.72	100.0%	1.72	0.00
C-1	0.26	0.72	5	1.37	0.022	0.045	0.16	2	0.016	12.00	2.00	0.00	0.00	1.37	1.37	100.0%	1.37	0.00
A-13	0.17	0.7	5	0.87	0.033	0.045	0.16	2	0.016	12.00	2.00	0.00	0.00	1.93	1.93	100.0%	1.93	0.00
A-14	0.16	0.71	5	0.83	0.021	0.025	0.16	2	0.016	12.00	2.00	0.00	0.00	0.83	0.83	100.0%	0.83	0.00
A-15	0.18	0.65	5	0.85	0.015	0.01	0.16	2	0.016	12.00	2.00	0.00	0.00	1.28	1.28	100.0%	1.28	0.00
A-16	0.23	0.62	5	1.04	0.01	0.014	0.16	2	0.016	12.00	2.00	0.00	0.00	1.04	1.04	100.0%	1.04	0.00
A-17	0.22	0.51	5	0.82	0.005	0.016	0.16	2	0.016	12.00	2.79	0.79	0.00	0.82	0.82	100.0%	0.82	0.00
A-18	0.13	0.95	5	0.90	0.005	0.019	0.16	2	0.016	12.00	3.26	1.26	0.01	0.90	0.89	100.0%	0.90	0.00
D-2	0.61	0.55	5	2.45	0.028	0.02	0.16	2	0.016	12.00	4.02	2.02	0.06	2.45	2.39	100.0%	2.45	0.00



STORM WATER DESIGN NOTES:

- RUNOFF CONDITIONS HAVE BEEN ESTIMATED IN ACCORDANCE WITH THE GDOT DRAINAGE MANUAL AND ALL DRAINAGE ELEMENTS HAVE BEEN DESIGNED TO ACCOMMODATE THE REQUIRED DISCHARGE.
- GUTTER SPREAD ARE CALCULATED BASED ON 10-YR STORM EVENT
- ALL PIPES ARE BASED ON 25-YR STORM EVENT. THE PIPE SYSTEM SHOWN WITHIN GDOT DISCHARGES INTO A SEDIMENT BASIN LOCATED ON A PRIVATE PROPERTY OWNED BY OCONEE BROAD OF EDUCATION.
- EXISTING CULVERTS WITHIN GDOT ROW HAVE BEEN PROFILED ONLY WITH SIZING, SINCE WE ARE ONLY EXISTING AN EXISTING CMP WITH RCP. THEREFORE, THE CAPACITY OF THE PROPOSED RCP PORTION/EXTENSION IS FAR SUPERIOR TO EXISTING CMP CULVERT.



GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
- RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD RCP, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
- 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, GULLY FLOW RATE, DESIGN STORM DISCHARGE VELOCITY, TAILWATER CONDITION (TALL APRON LENGTH, APRON WIDTH AT DRAINAGE STRUCTURE END, APRON WIDTH DOWNSTREAM), AND AVERAGE STONE DIAMETER, 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.
- THE APRON WIDTH SHALL BE THE SAME AS THE DRAINAGE STRUCTURE DISCHARGE PERPENDICULAR TO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL, BACK TO THE TOP OF THE CHANNEL BACKSLOPE OR 1 FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM WINDWARD. THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (D) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
- IF THE OUTLET HYDRAULICS REQUIRE A 600-TO-120 FEET TYPE-3 RIPRAP, THE DESIGNER SHALL PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- IF THE OUTLET HYDRAULICS REQUIRE A 600-TO-120 FEET TYPE-3 RIPRAP, THE DESIGNER SHALL PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRONS.
- 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.

RIPRAP TYPE	REQUIRED (SQ YD)	MIN. DEPTH "D" (IN)
1	51.28	36
3	58.67	18

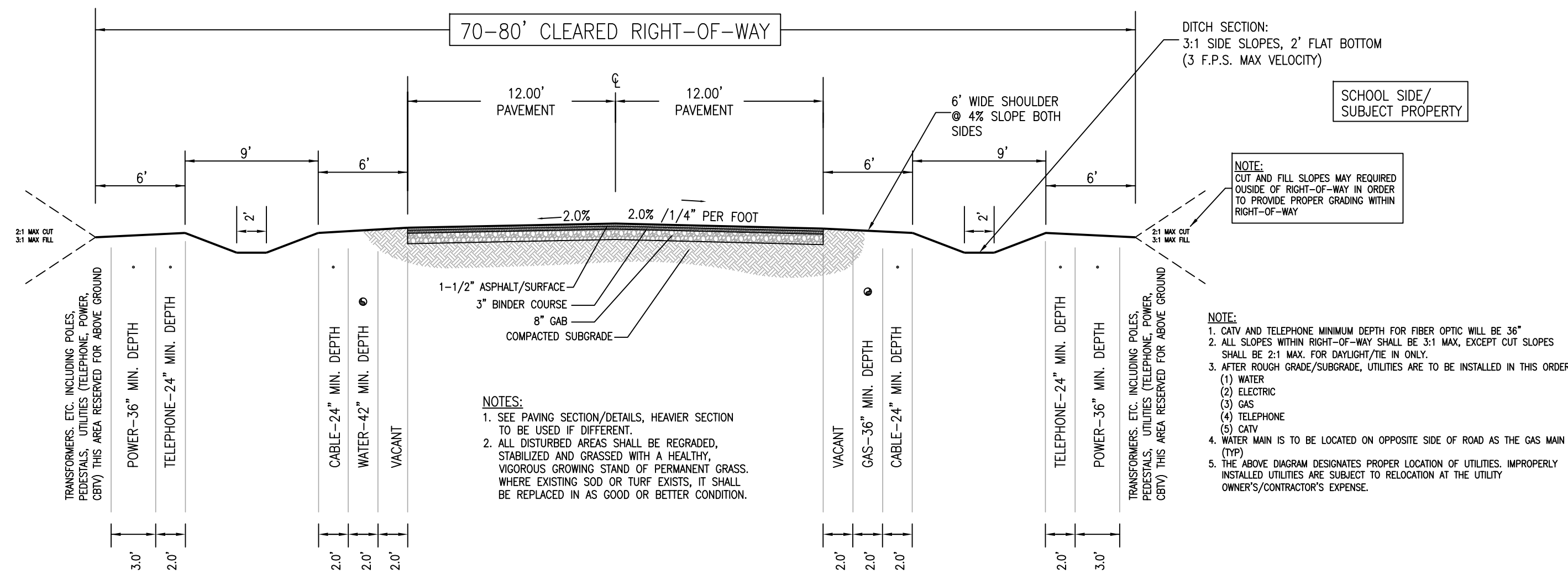
DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA
 CONSTRUCTION DETAILS
 RIPRAP OUTLET PROTECTION
 SHEET 1 OF 2
 NO SCALE
 4-22-2016
 DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 NUMBER: D-55A

GENERAL STORM & STORM STRUCTURE NOTE:

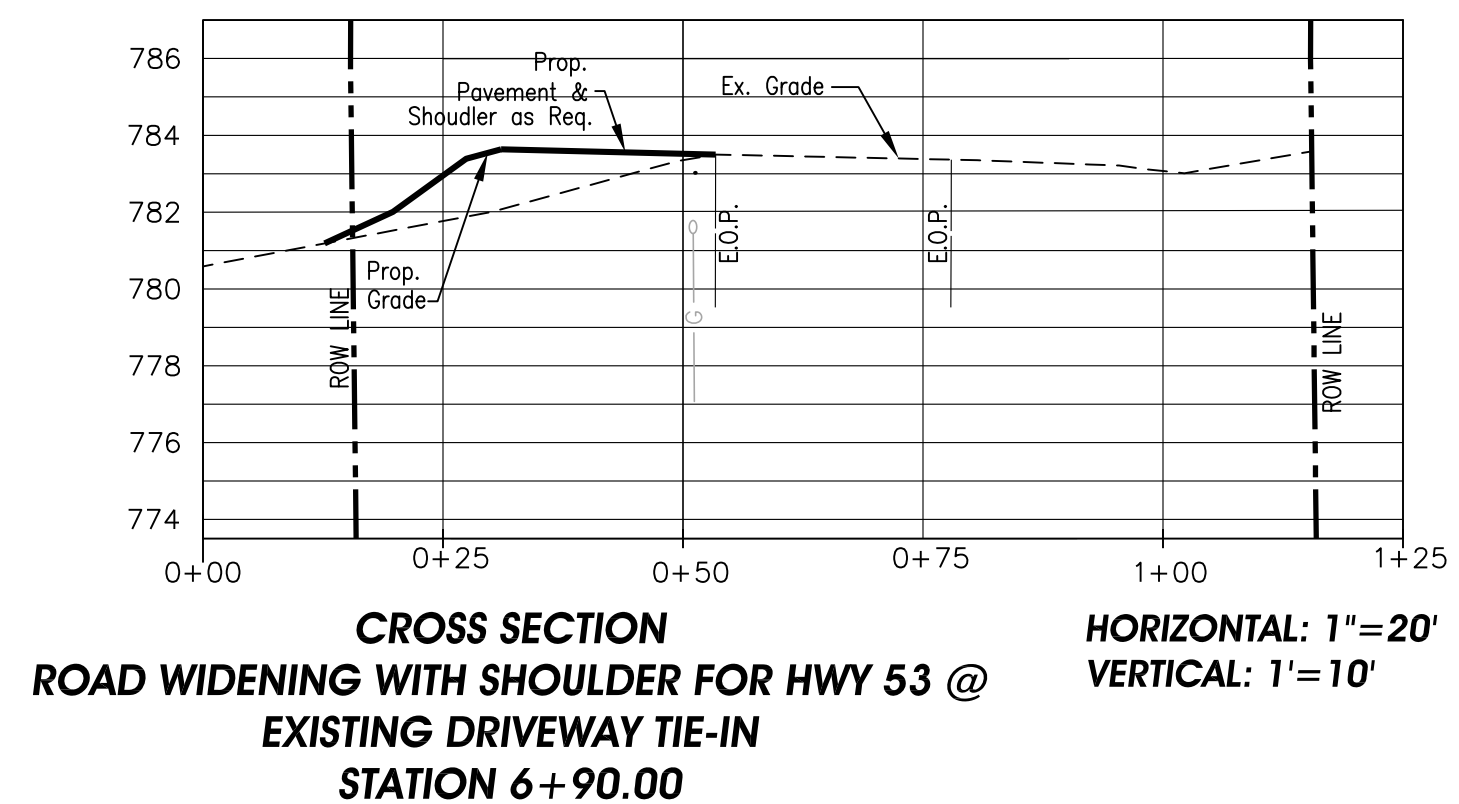
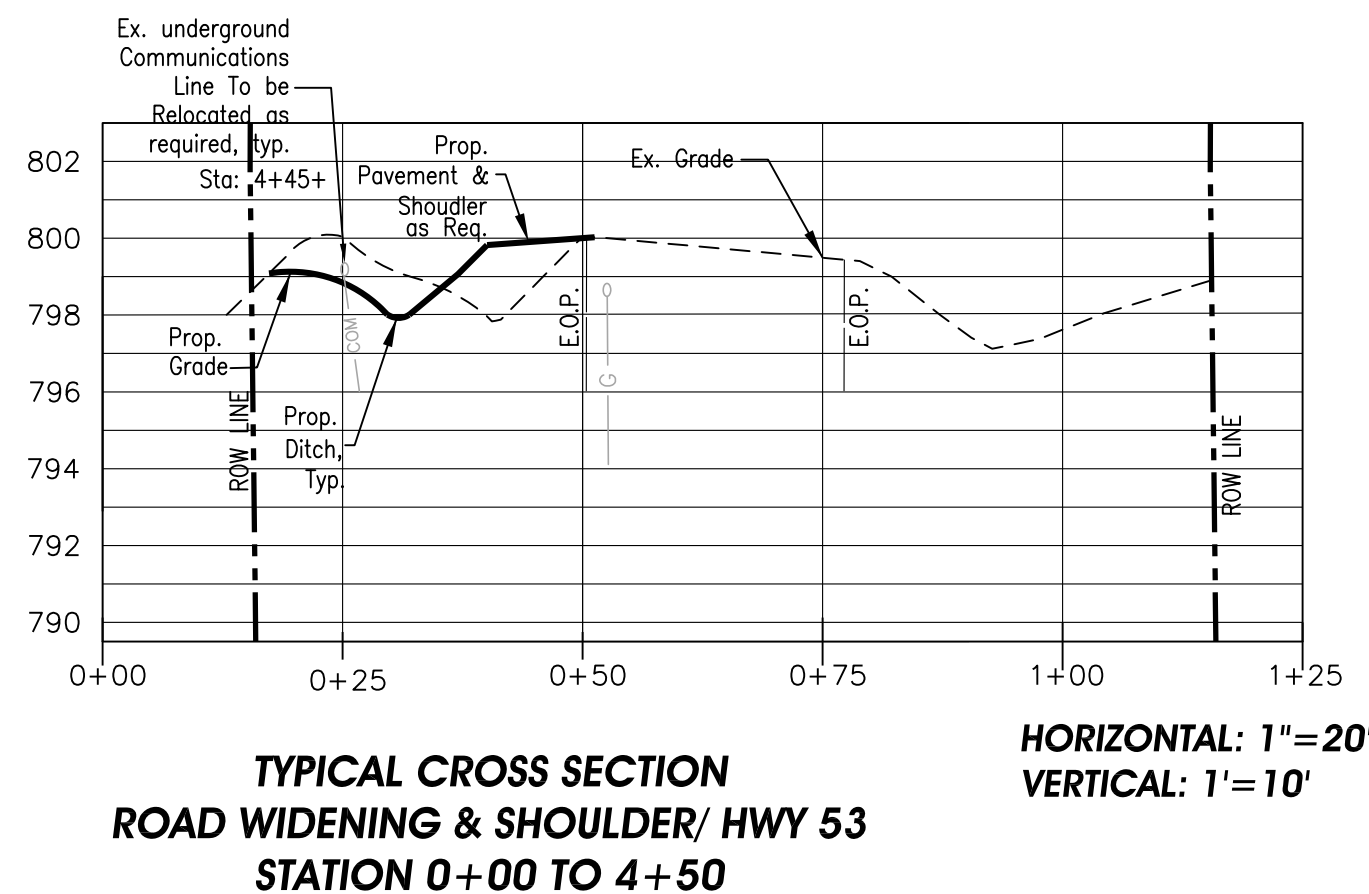
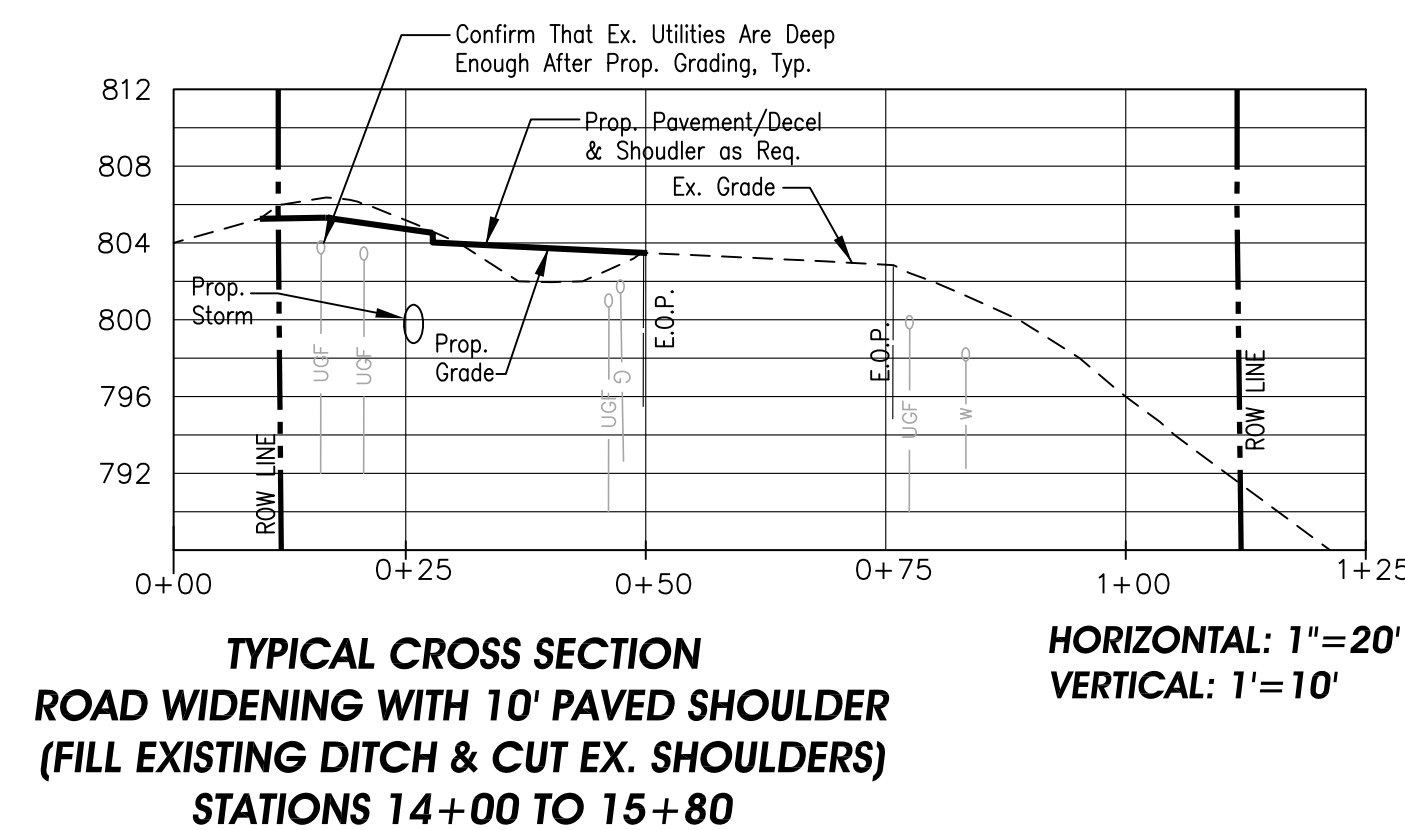
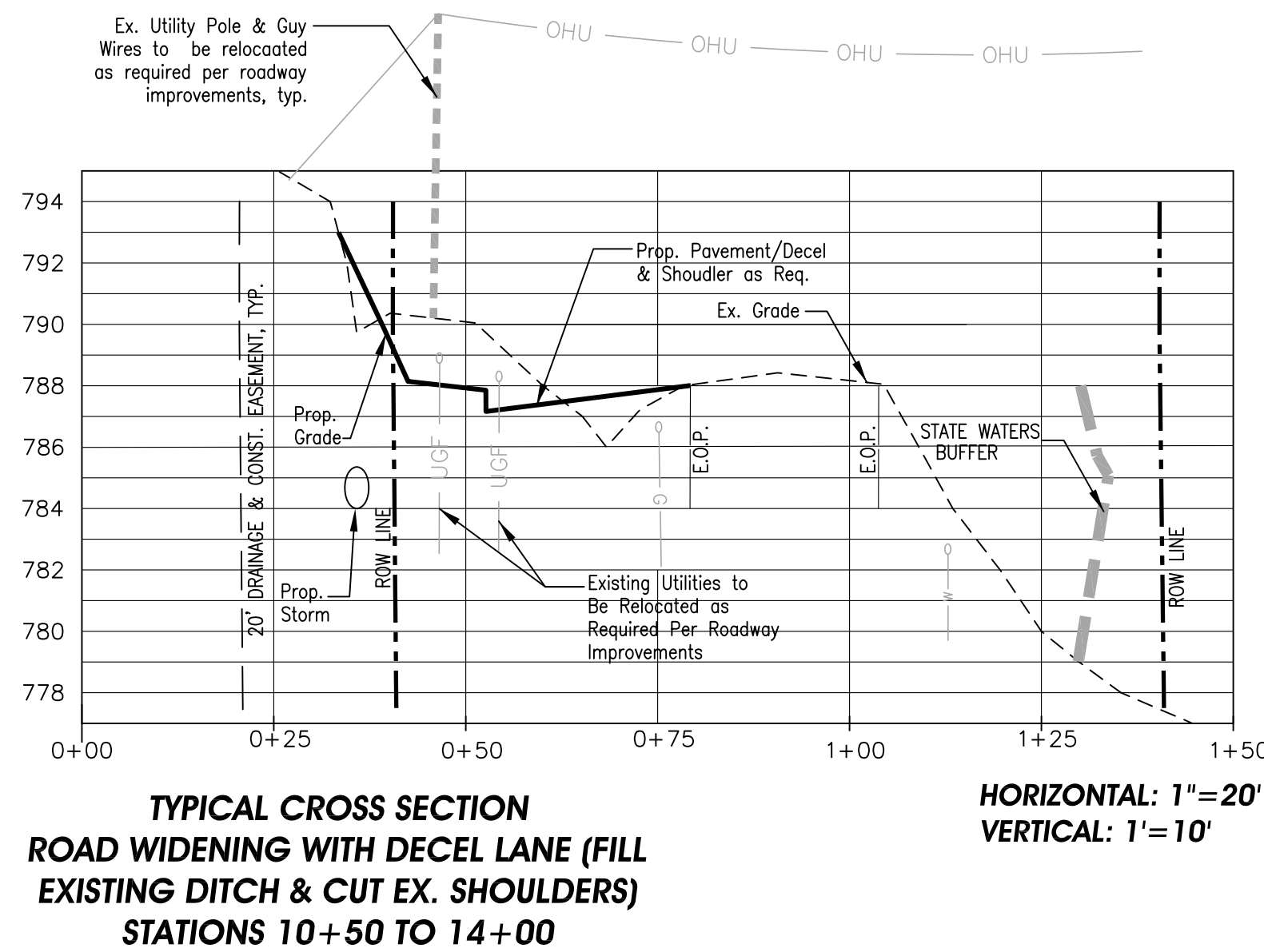
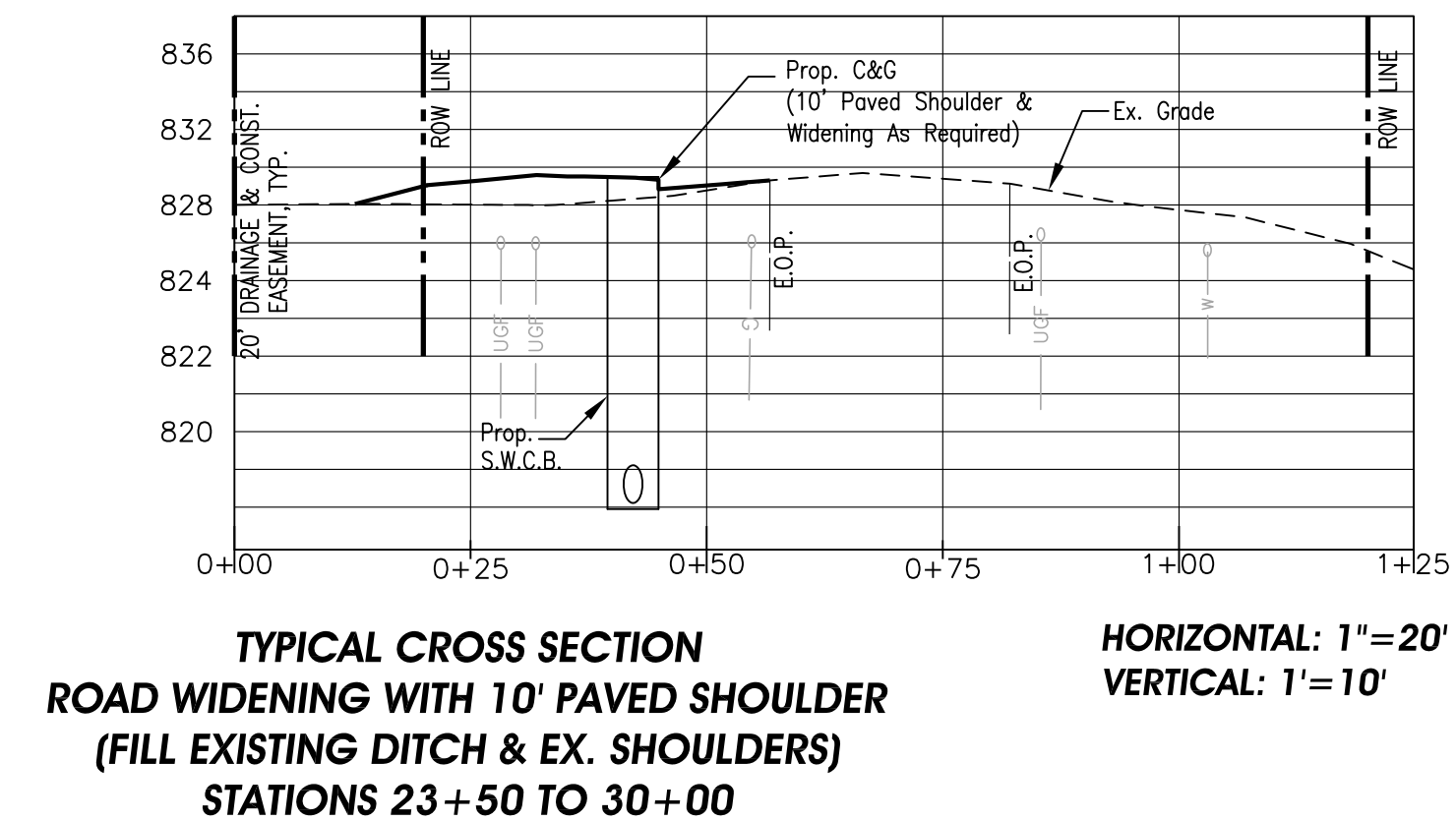
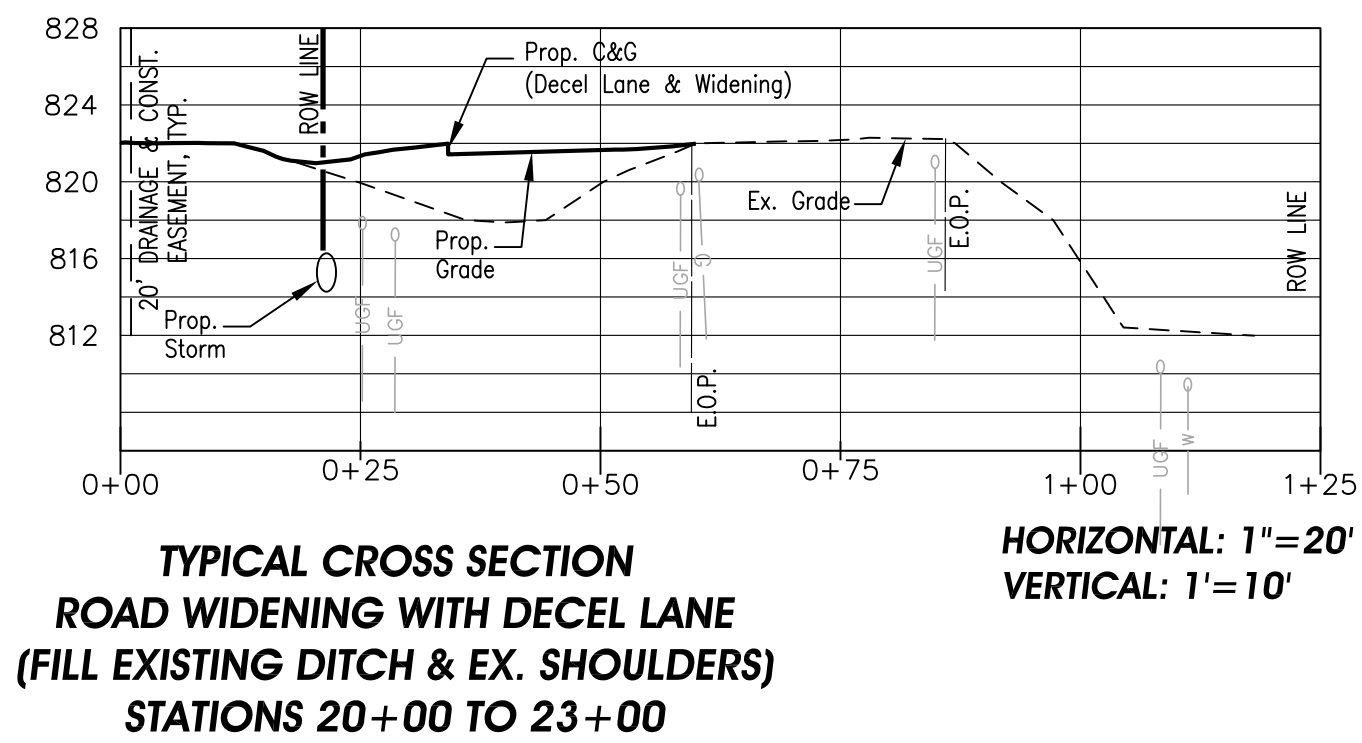
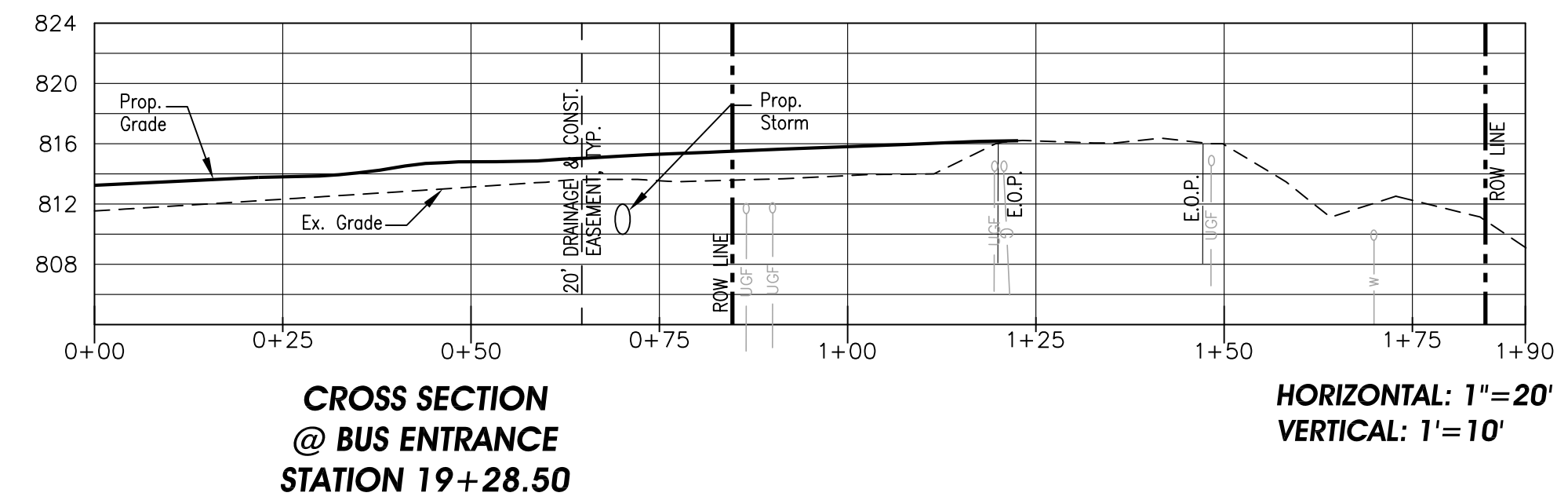
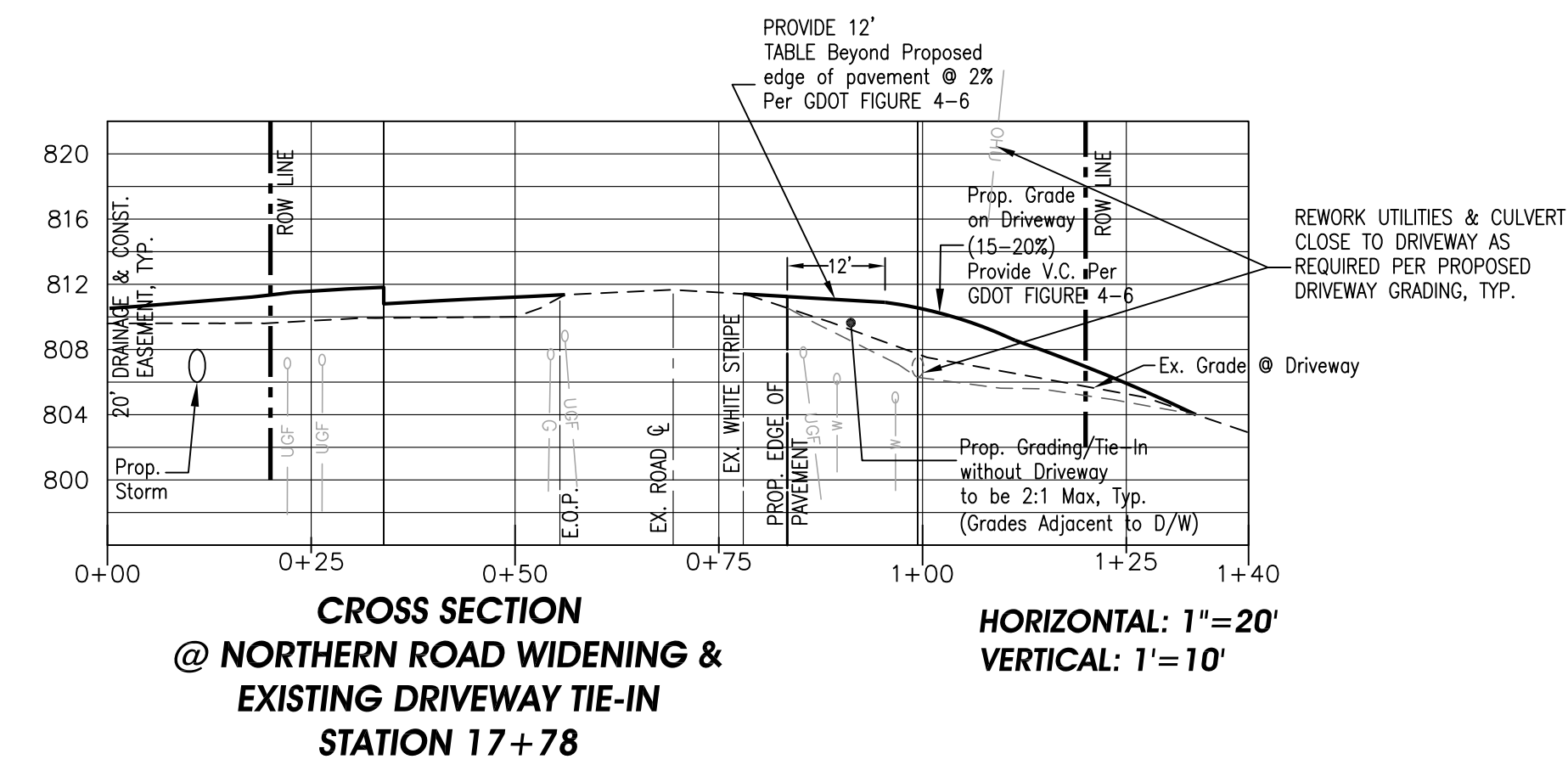
- ALL "CMP" PIPES SHALL BE ULTRA FLOW TYPE II ALUMINIZED.
- ALL STORM STRUCTURES SHALL BE GDOT STANDARD STRUCTURES. THE STRUCTURES CAN BE PRECAST.
- ALL JUNCTION BOXES TO BE GDOT STANDARD 9031U.
- ALL C&G WITH GDOT ROW TO BE GDOT STANDARD 9032B TYPE 7

STRUCTURE LEGEND/NOTES:

- "Rim": CB/JB Top Rim Elevation
- "Top": SES, FES, HW, DI, MDI (Top Elevation)
- "Grate": GI (Grate Intel Top Elevation)
- "Plain End": Pipe w/ No HW or SES



TYPICAL ROADWAY CROSS SECTION & UTILITY LOCATION FOR VM OSBORNE ROAD (25 MPH) OCONEE COUNTY STANDARDS (RURAL WITH DITCHES)



COMPREHENSIVE ENGINEERING SERVICES
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DOVE CREEK SCHOOL R/W IMPROVEMENTS

7921 HOG MOUNTAIN RD.
 STATE ROUTE 53
 STATHAM, GA 30666
 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

GDOT CROSS SECTIONS & VM OSBORNE ROADWAY CROSS SECTION

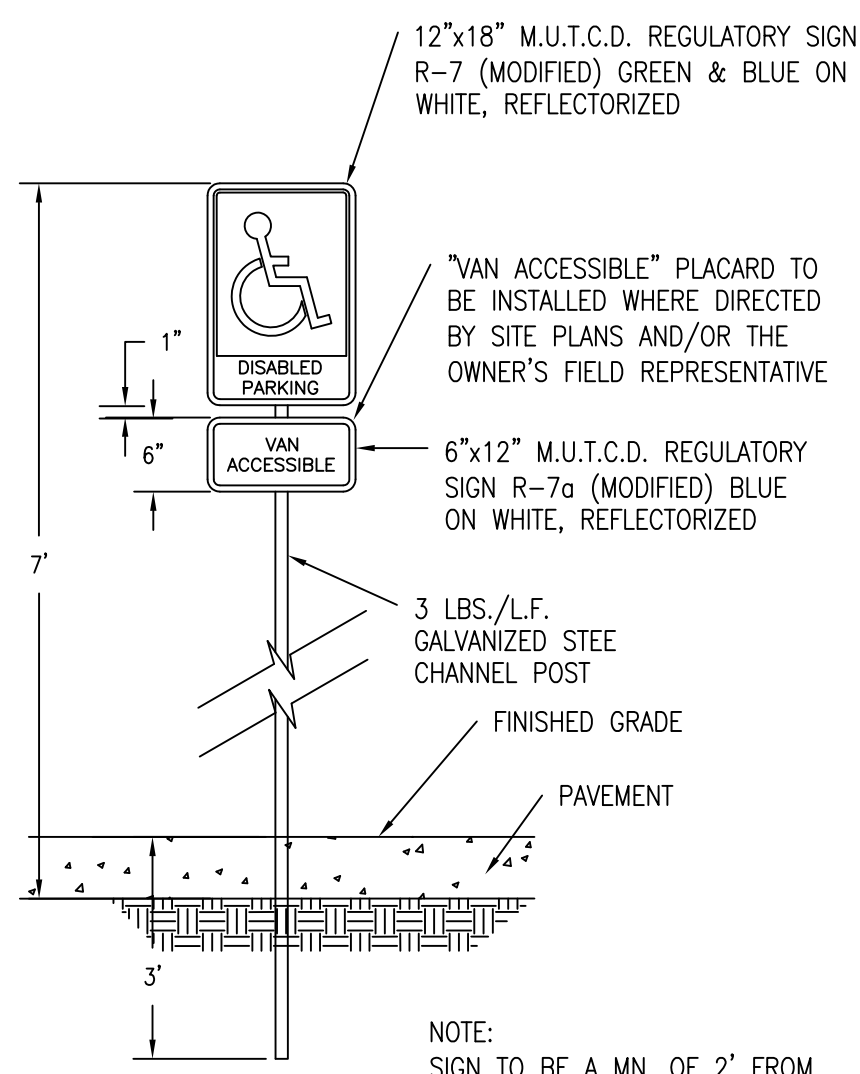
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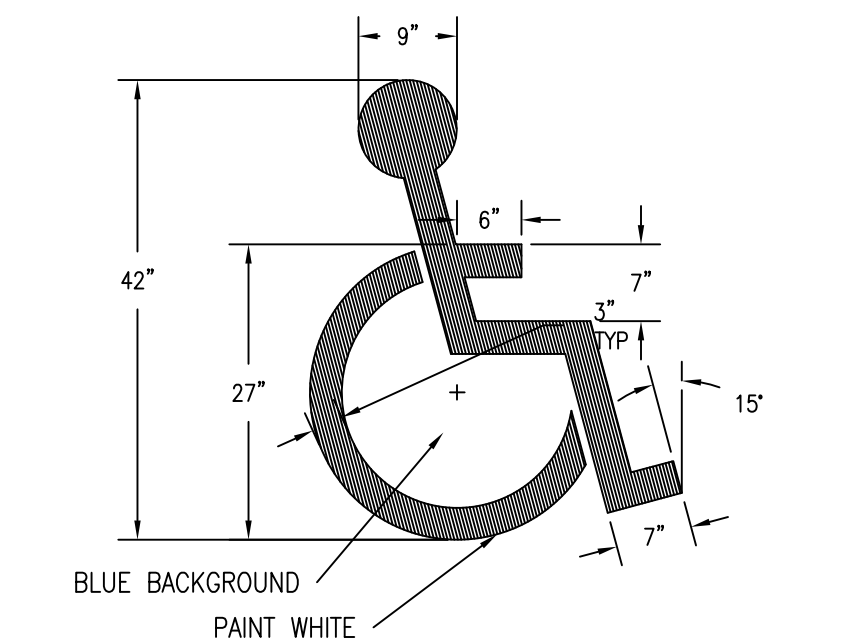
REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
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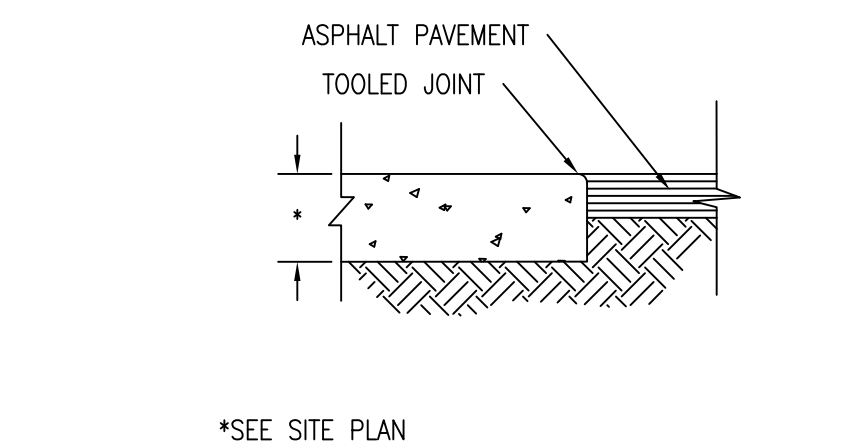
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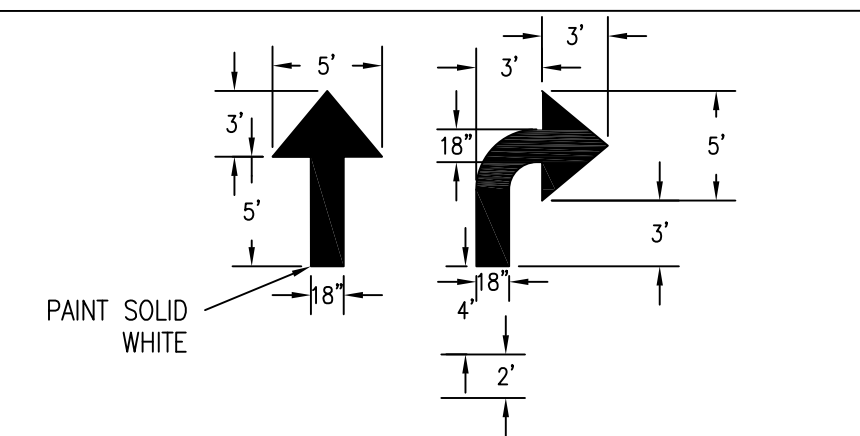
12 "HANDICAP PARKING ONLY" SIGN
SD-1.1 NOT TO SCALE



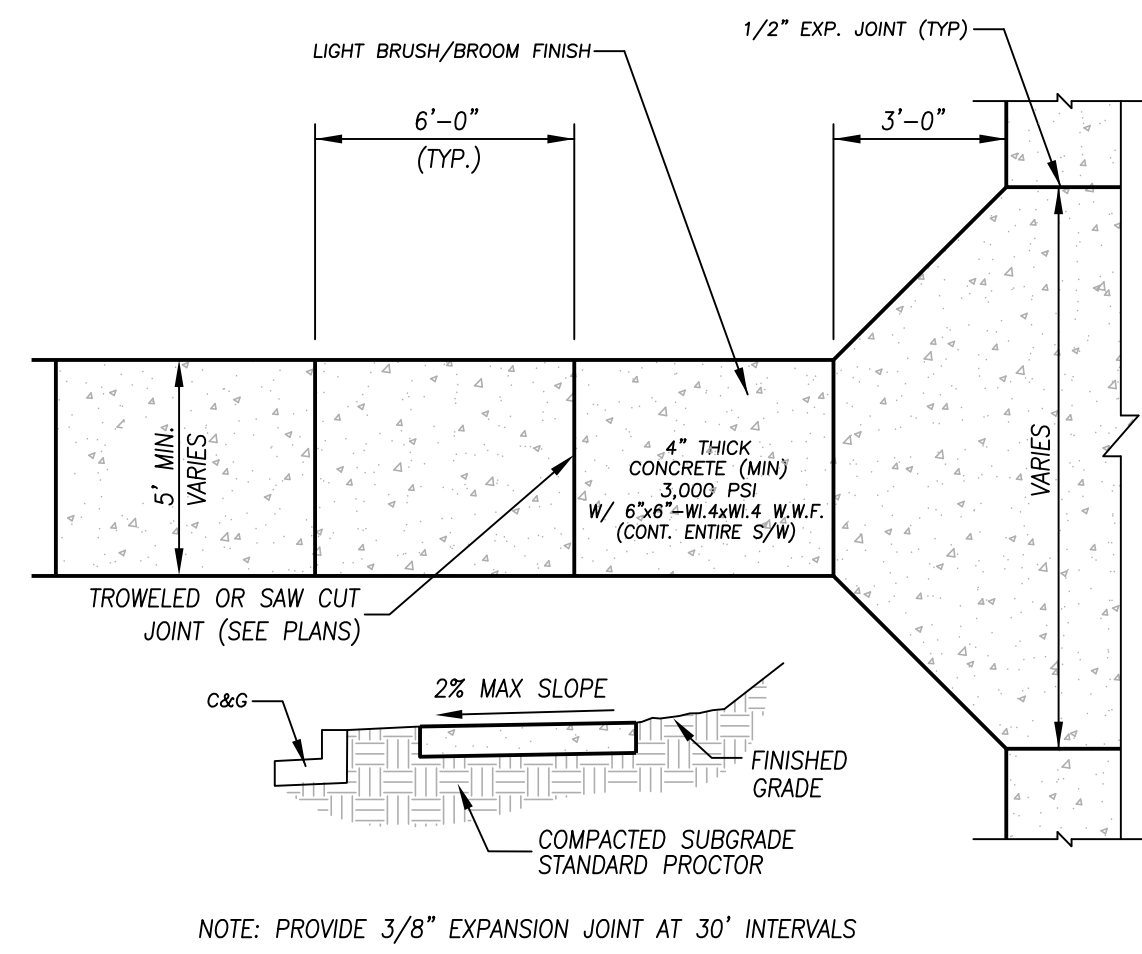
13 PAINTED HANDICAPPED PARKING SYMBOL
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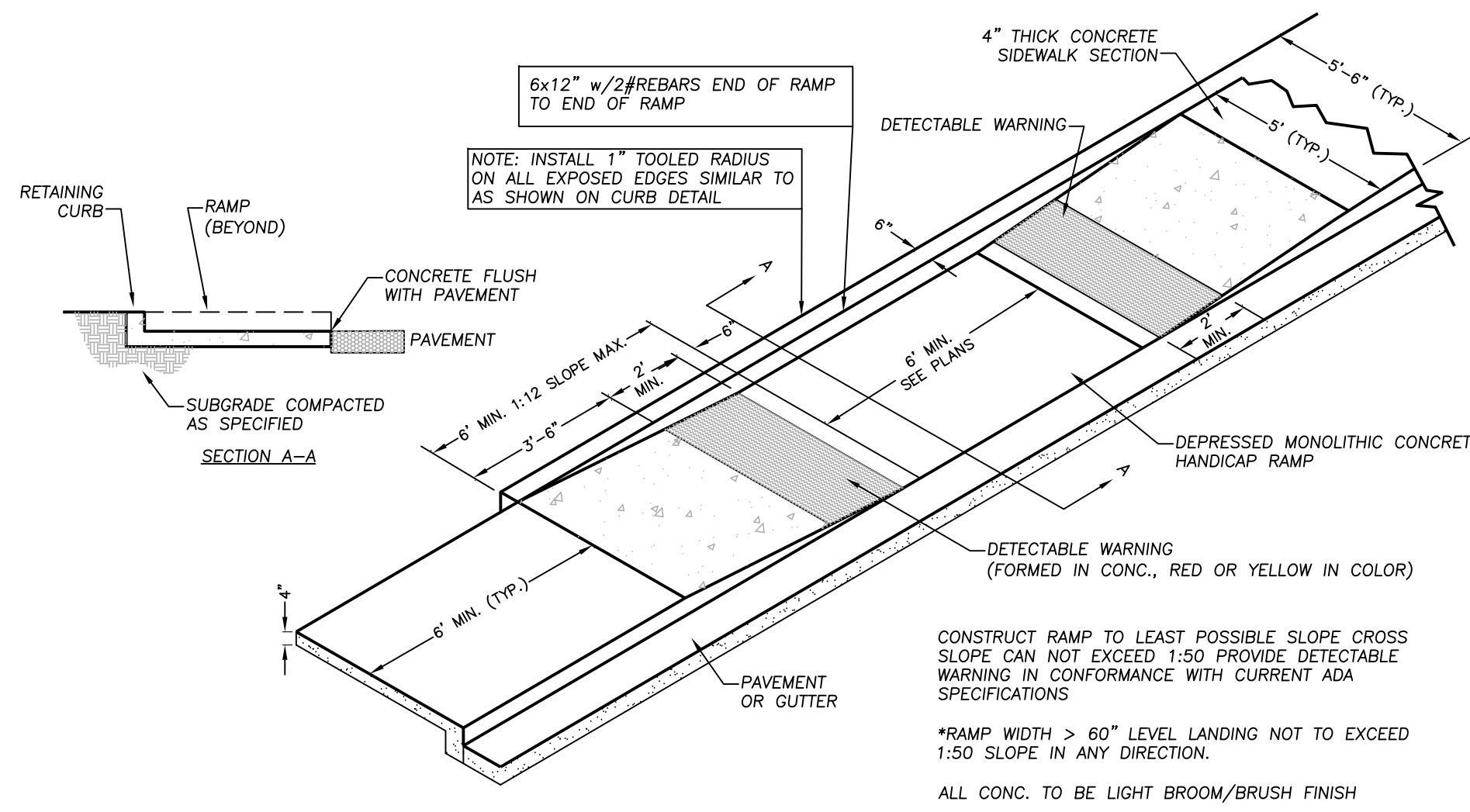
14 TERMINAL JOINT W/ ASPHALT PAVEMENT
SCALE



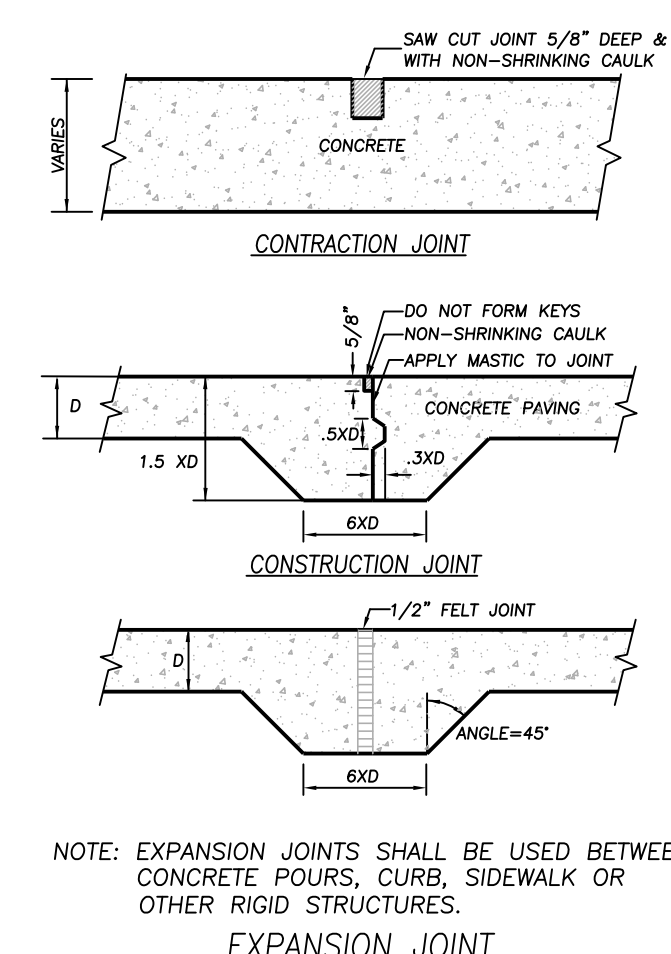
15 TYPICAL PAVEMENT MARKING
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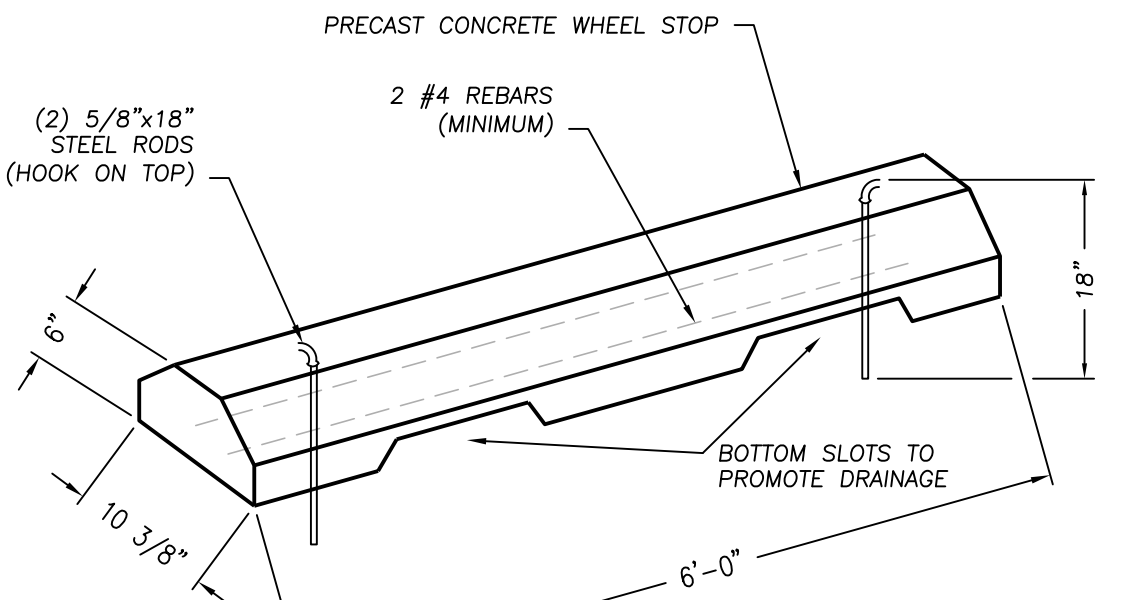
CONCRETE SIDEWALK DETAIL
NTS



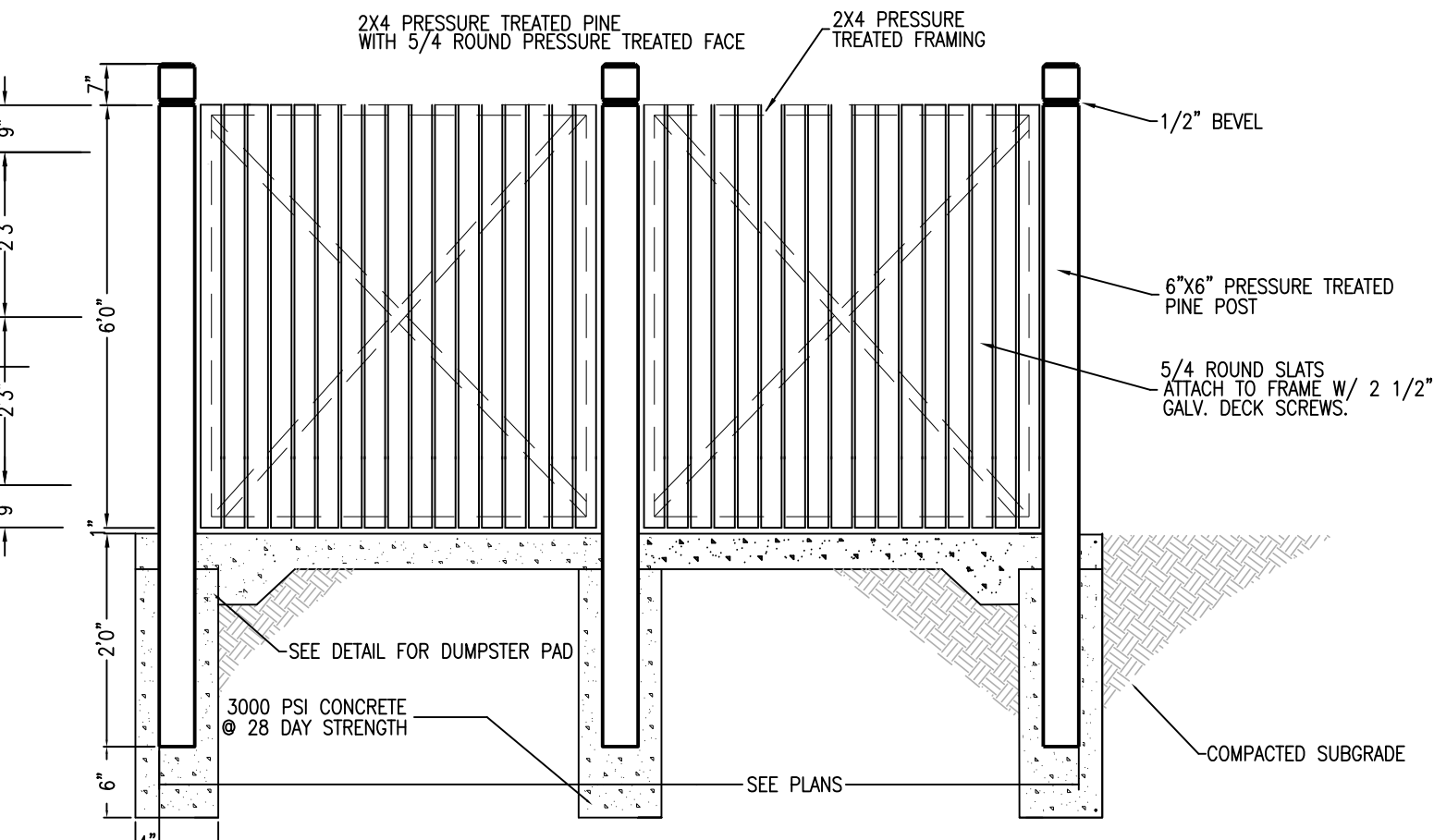
H/C DEPRESS CURB RAMP & DETECTABLE WARNING DETAIL
NTS



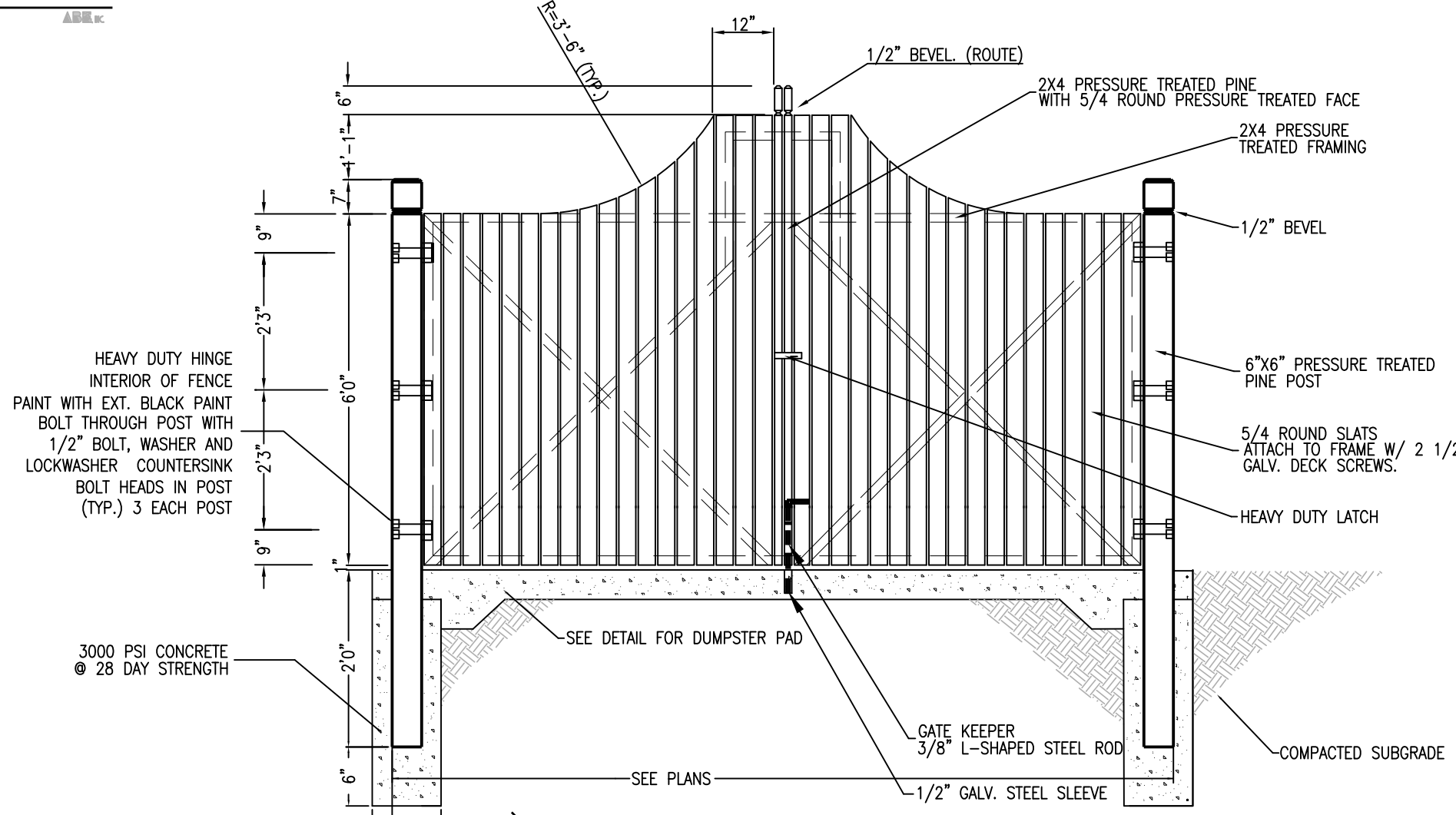
CONCRETE JOINT DETAILS
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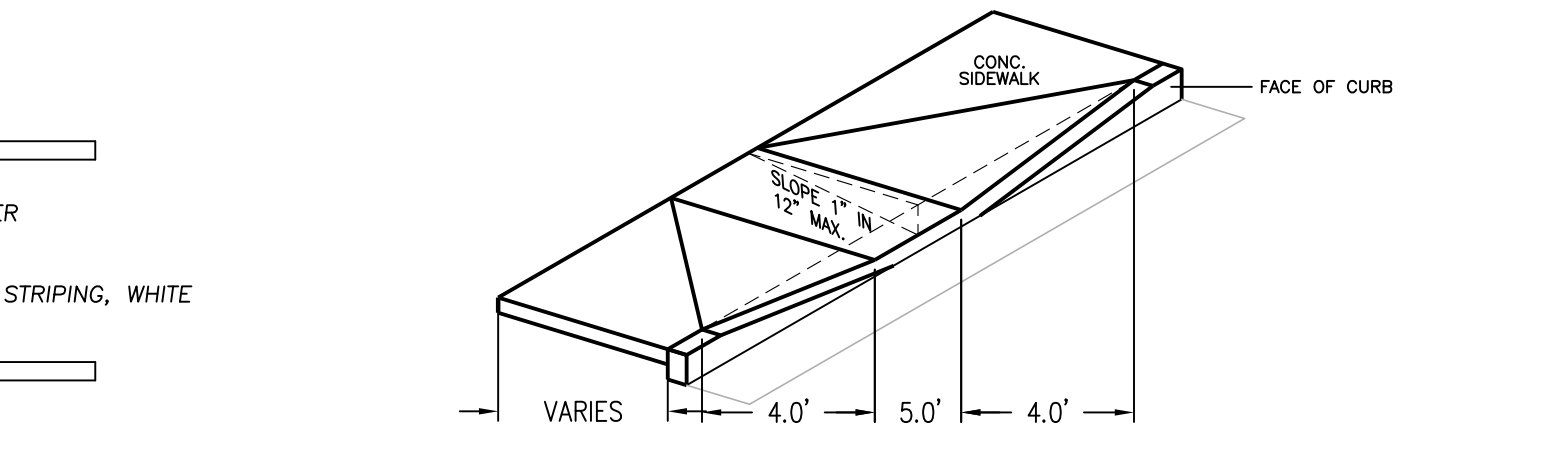
CONCRETE WHEEL STOP
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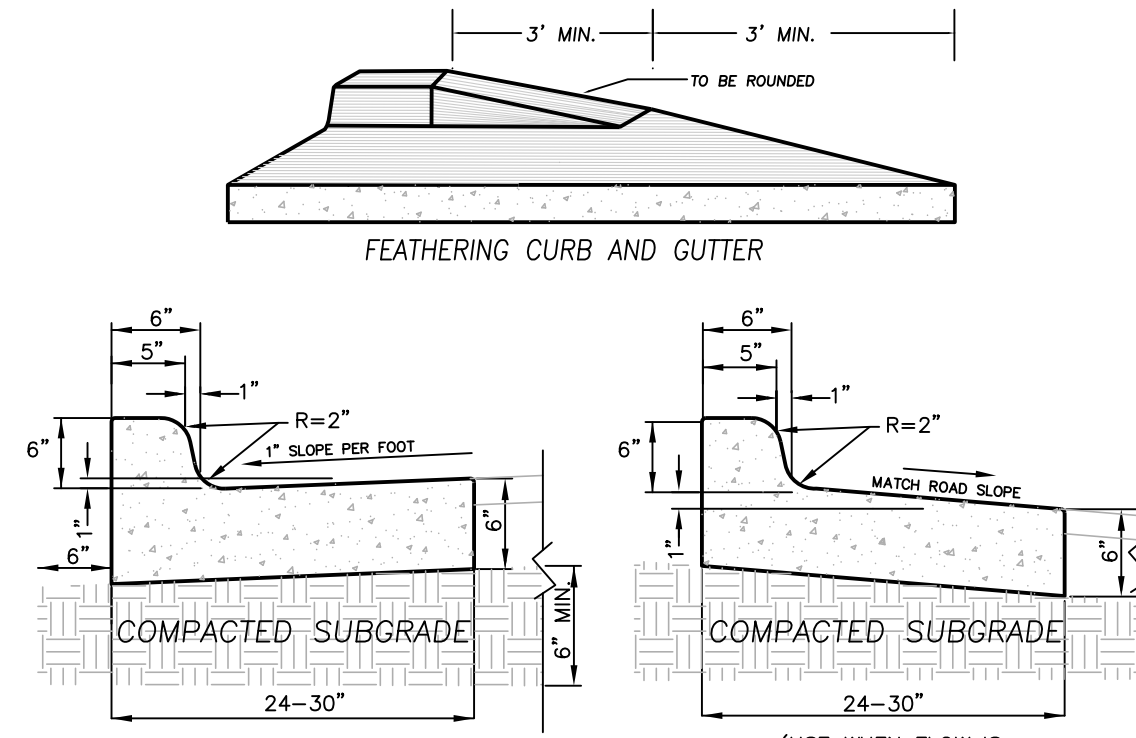
SIDE FENCE DETAIL - DUMPSTER PAD
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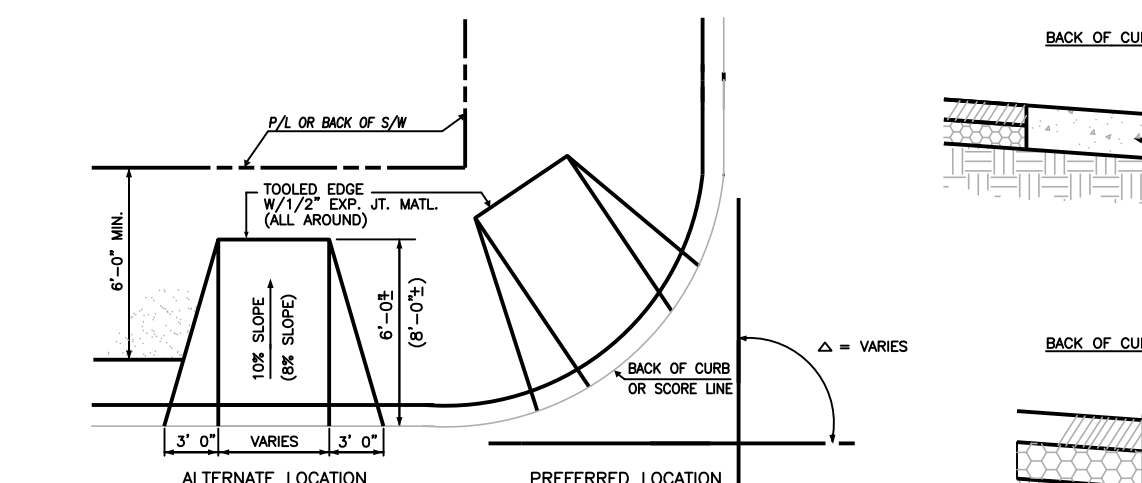
FRONT GATE DETAIL - DUMPSTER PAD
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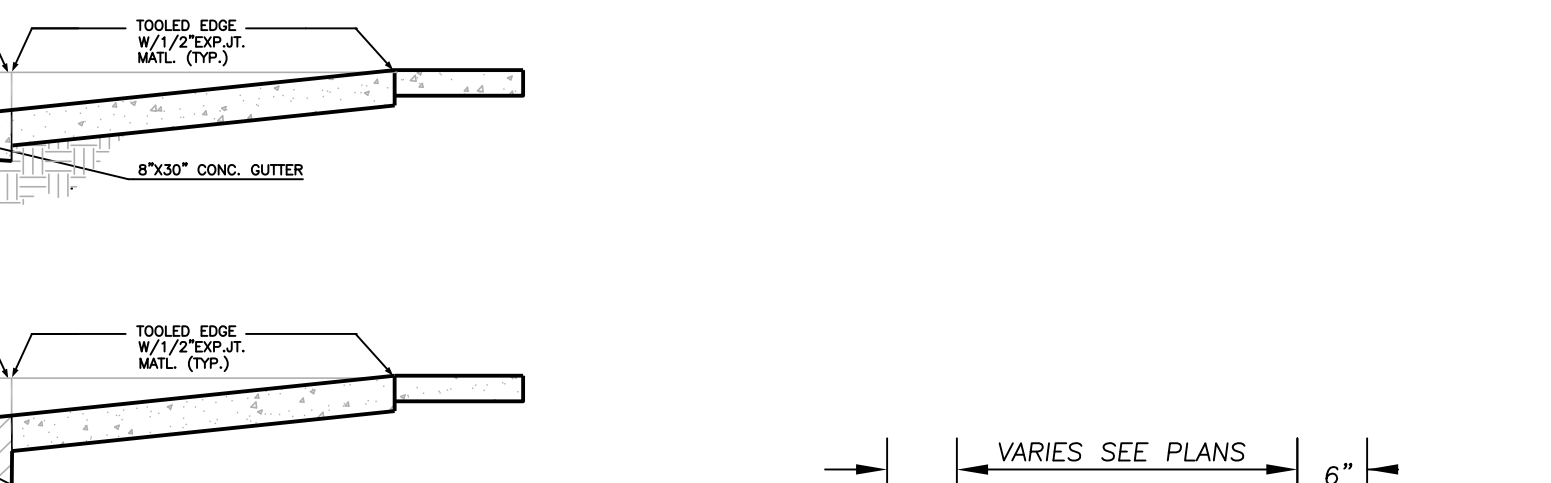
FLARED HANDICAP RAMP
NTS



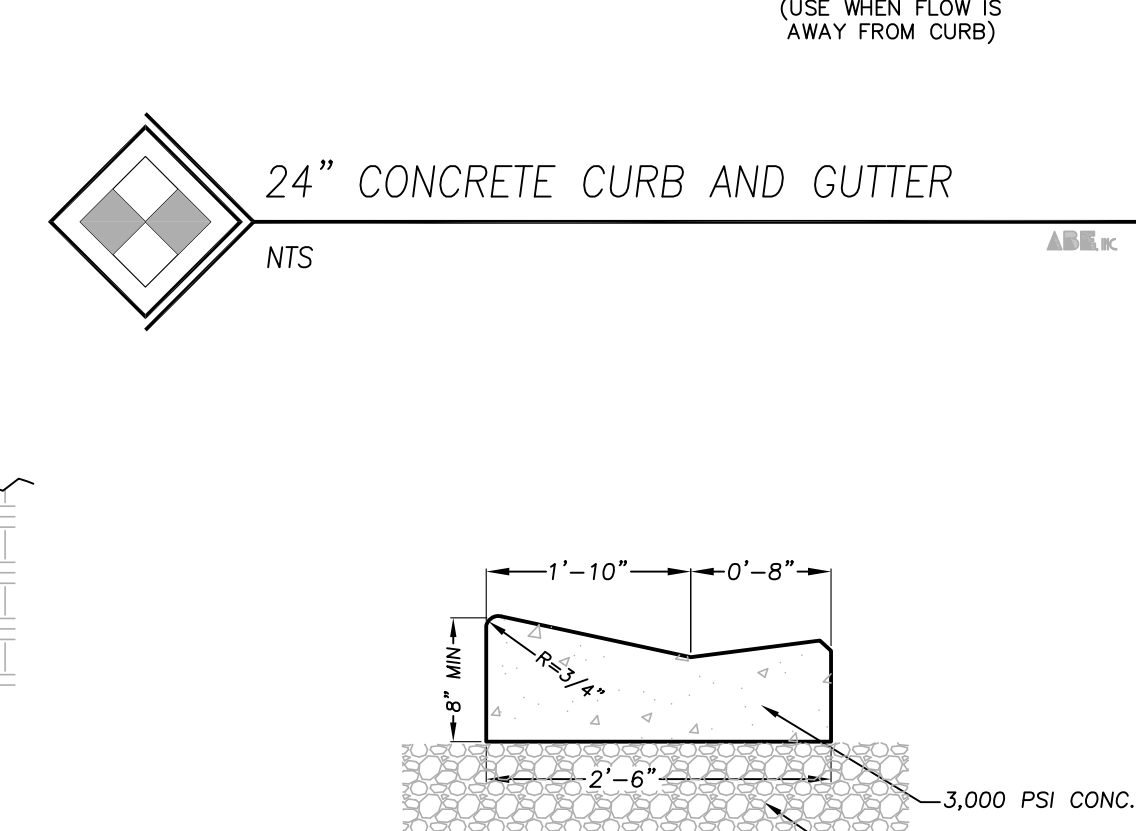
24" CONCRETE CURB AND GUTTER
NTS



STANDARD WHEELCHAIR RAMP
NTS

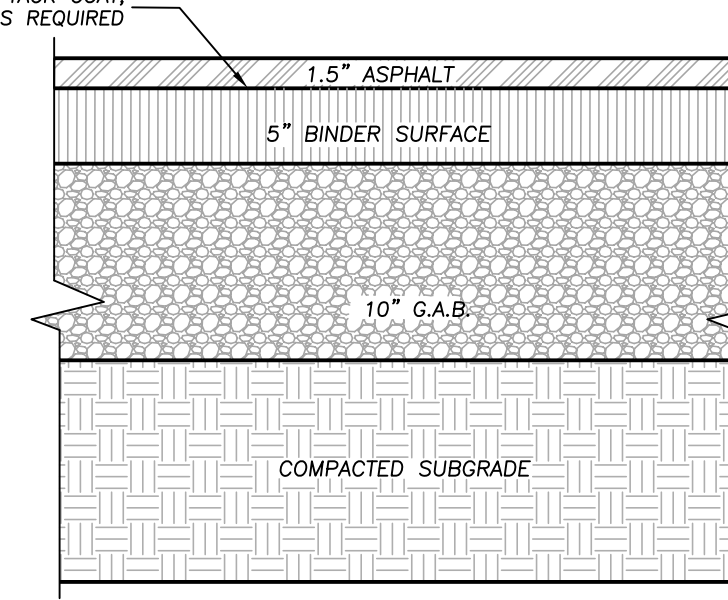


CONCRETE FLUME DETAIL
NTS

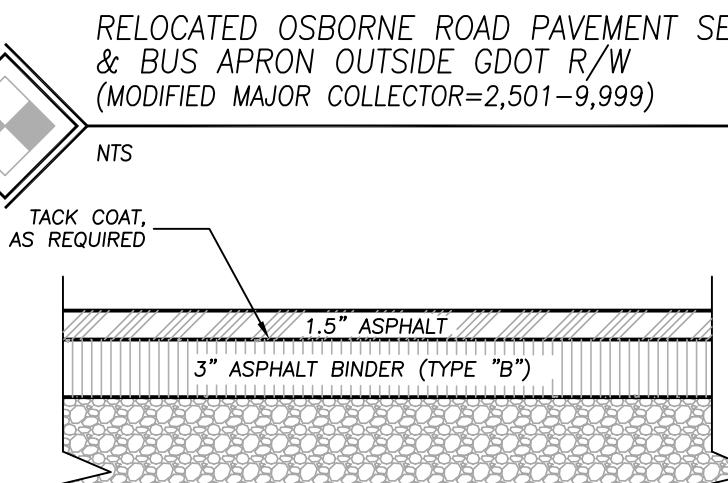


30" VALLEY GUTTER
NTS

CONSTRUCTION DETAILS ON THIS SHEET NOT TO BE USED WITHIN GDOT ROW, TYPICAL



RELOCATED OSBORNE ROAD PAVEMENT SECTION & BUS APRON OUTSIDE GDOT R/W (MODIFIED MAJOR COLLECTOR=2,501-9,999)
NTS



VM OSBORNE ROAD PAVEMENT SECTION (MODIFIED MINOR COLLECTOR=251-2,500)
NTS



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DOVE CREEK SCHOOL R/W IMPROVEMENTS

7921 HOG MOUNTAIN RD.
STATE ROUTE 53
STATHAM, GA 30666
OCONEE COUNTY, GA
224th GMD
GDOT DISTRICT# 1

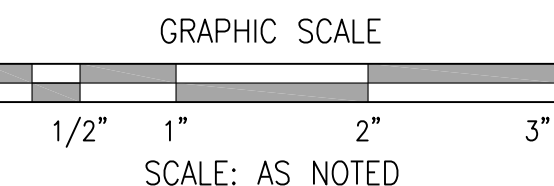
COUNTY ROADS CONSTRUCTION DETAILS

ISSUED FOR BIDDING



REVISIONS	DATE
REVISED PER GDOT COMMENTS	3-8-18
REVISED PER GDOT COMMENTS	3-15-18

DATE: 2-19-18
PROJECT #: 17-021-48



SHEET #
62
62