

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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 706-425-9631 (FAX)
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 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

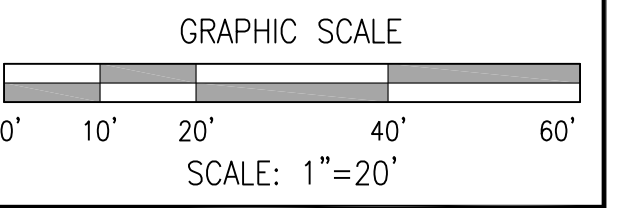
**ES&PC
 PHASE III - FINAL
 PLAN A**

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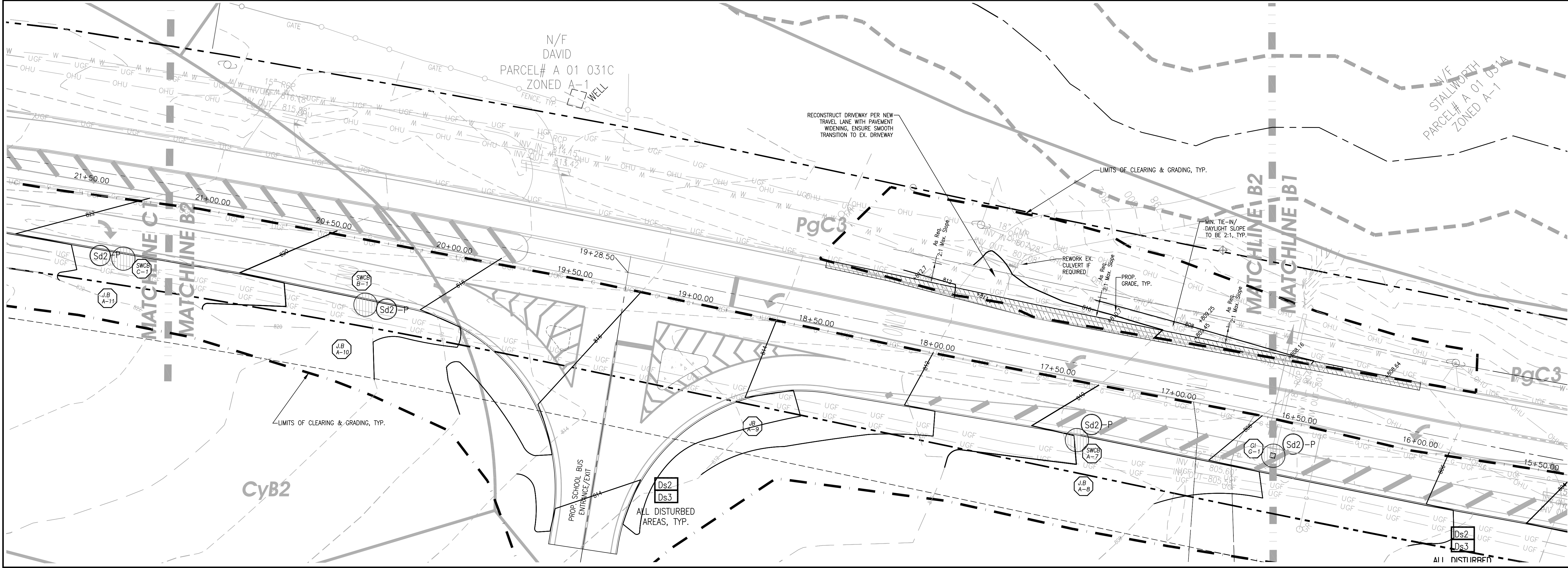
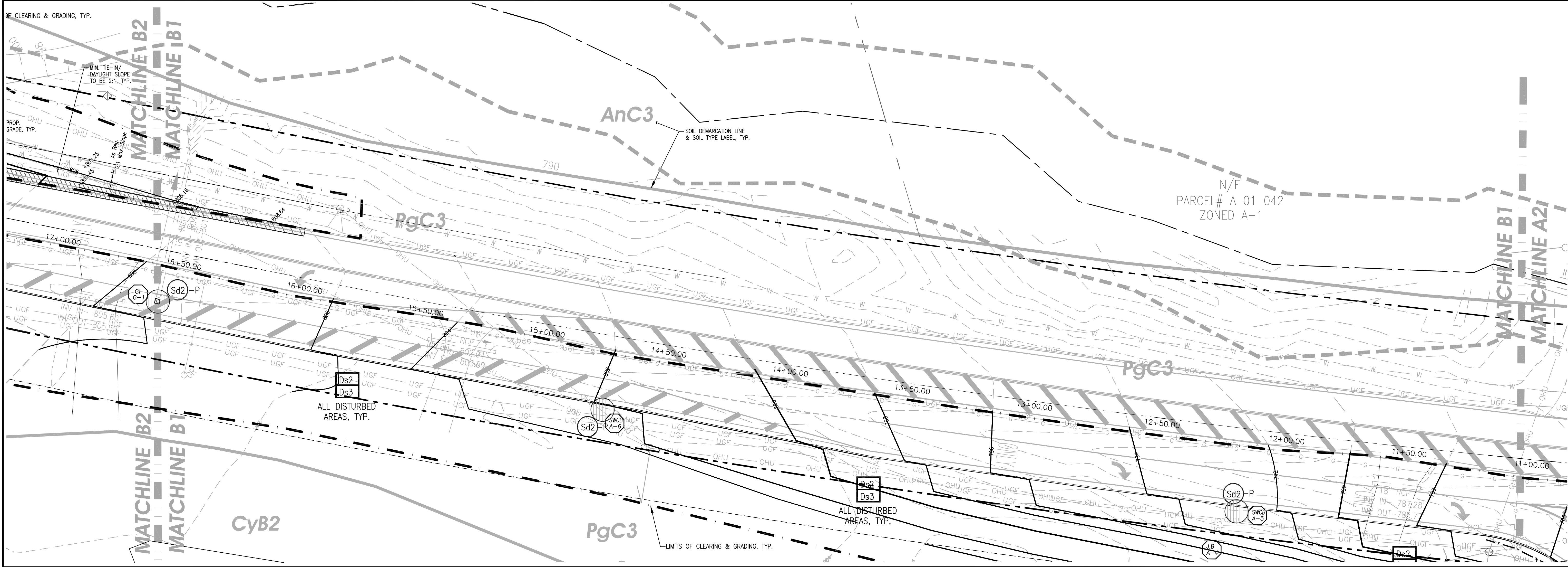
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SHEET #
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OF CLEARING & GRADING, TYP.



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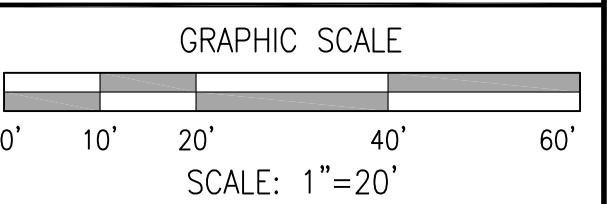
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PHASE III - FINAL
PLAN B

ISSUED FOR BIDDING

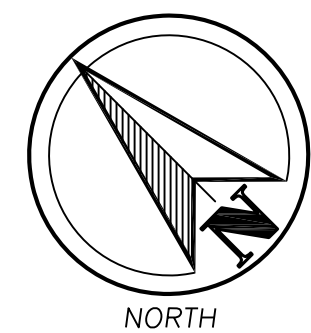


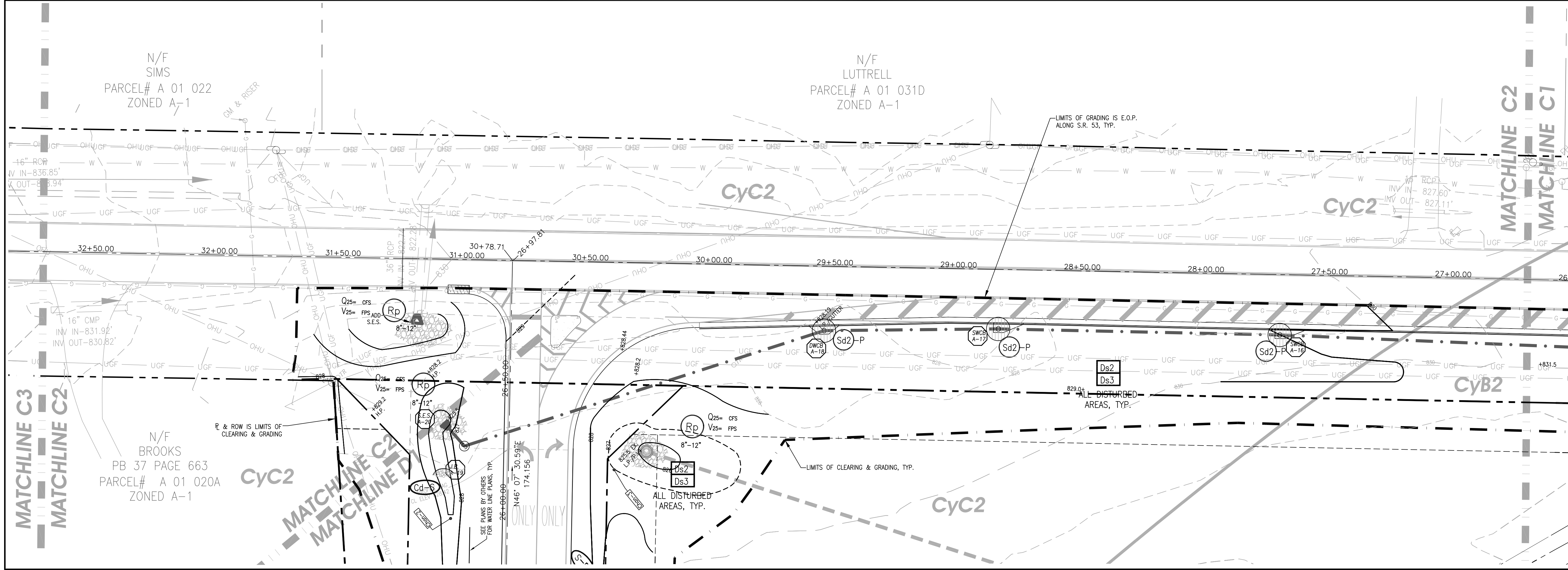
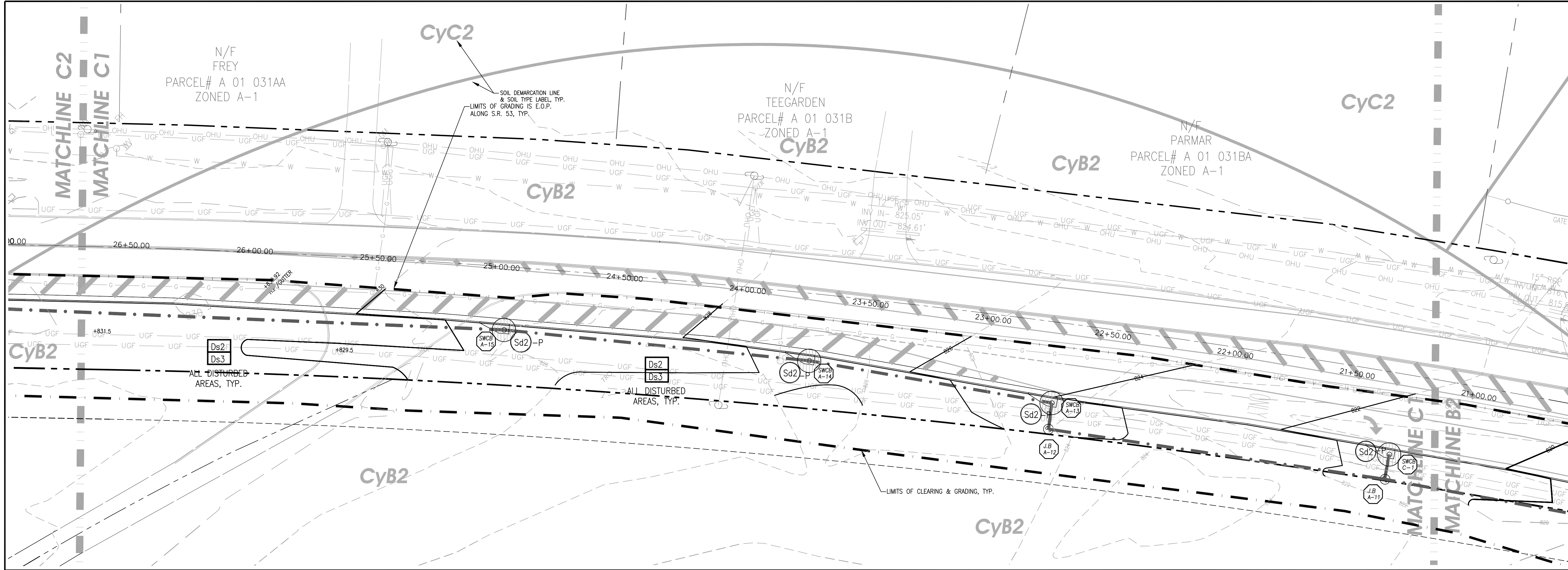
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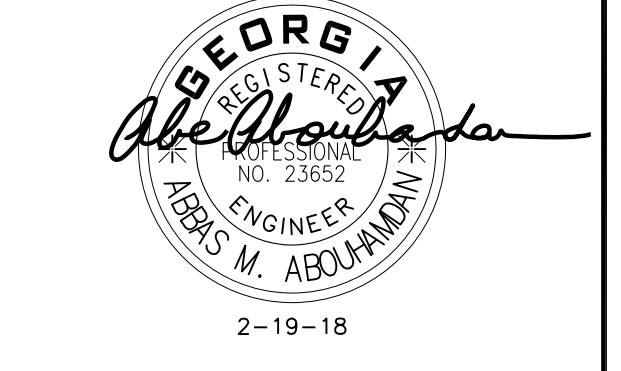
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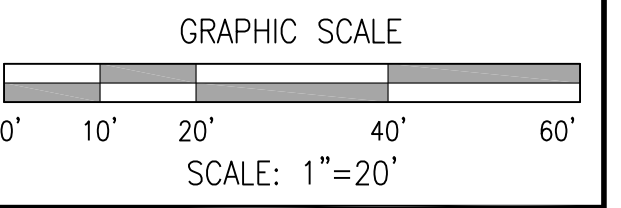
**ES&PC
 PHASE III - FINAL
 PLAN C**

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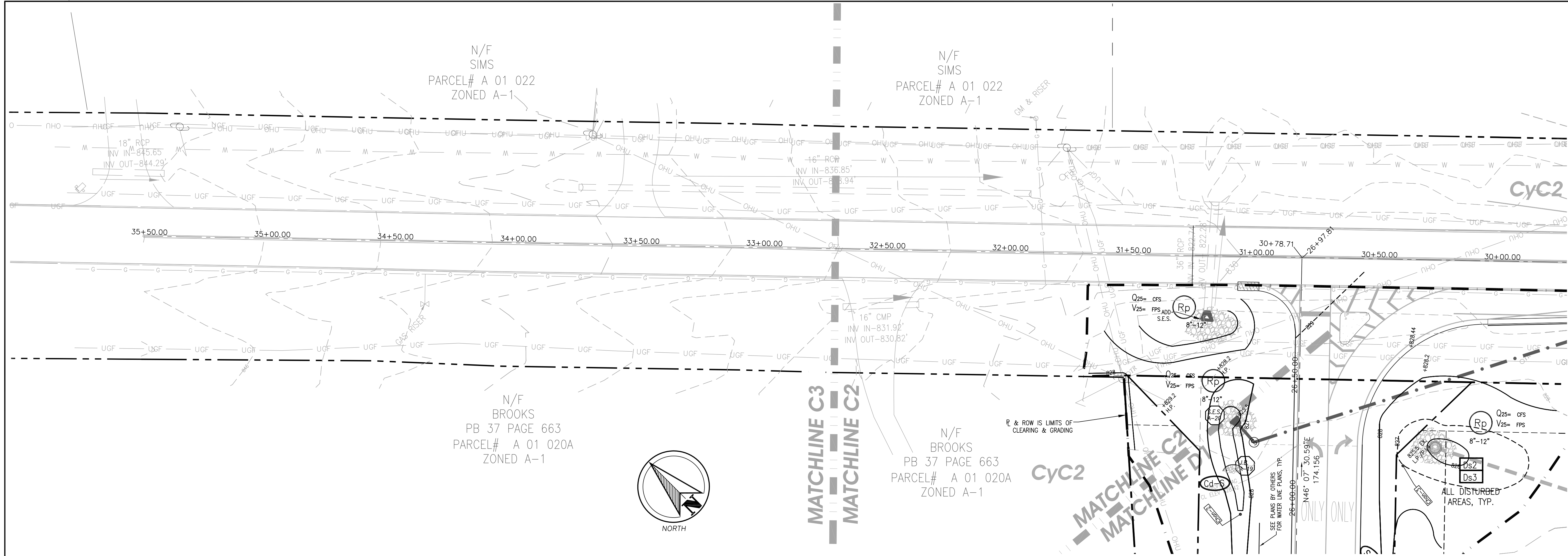


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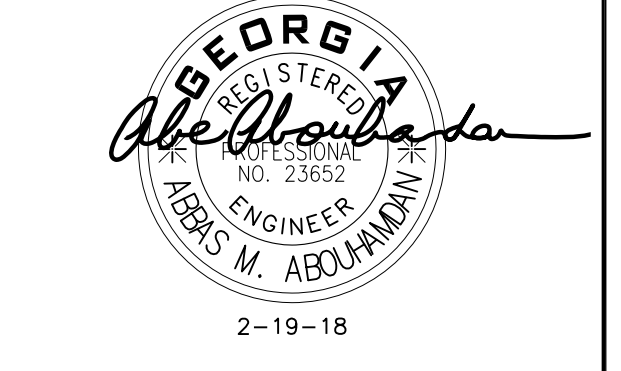
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 PHASE III - FINAL
 PLAN C3**

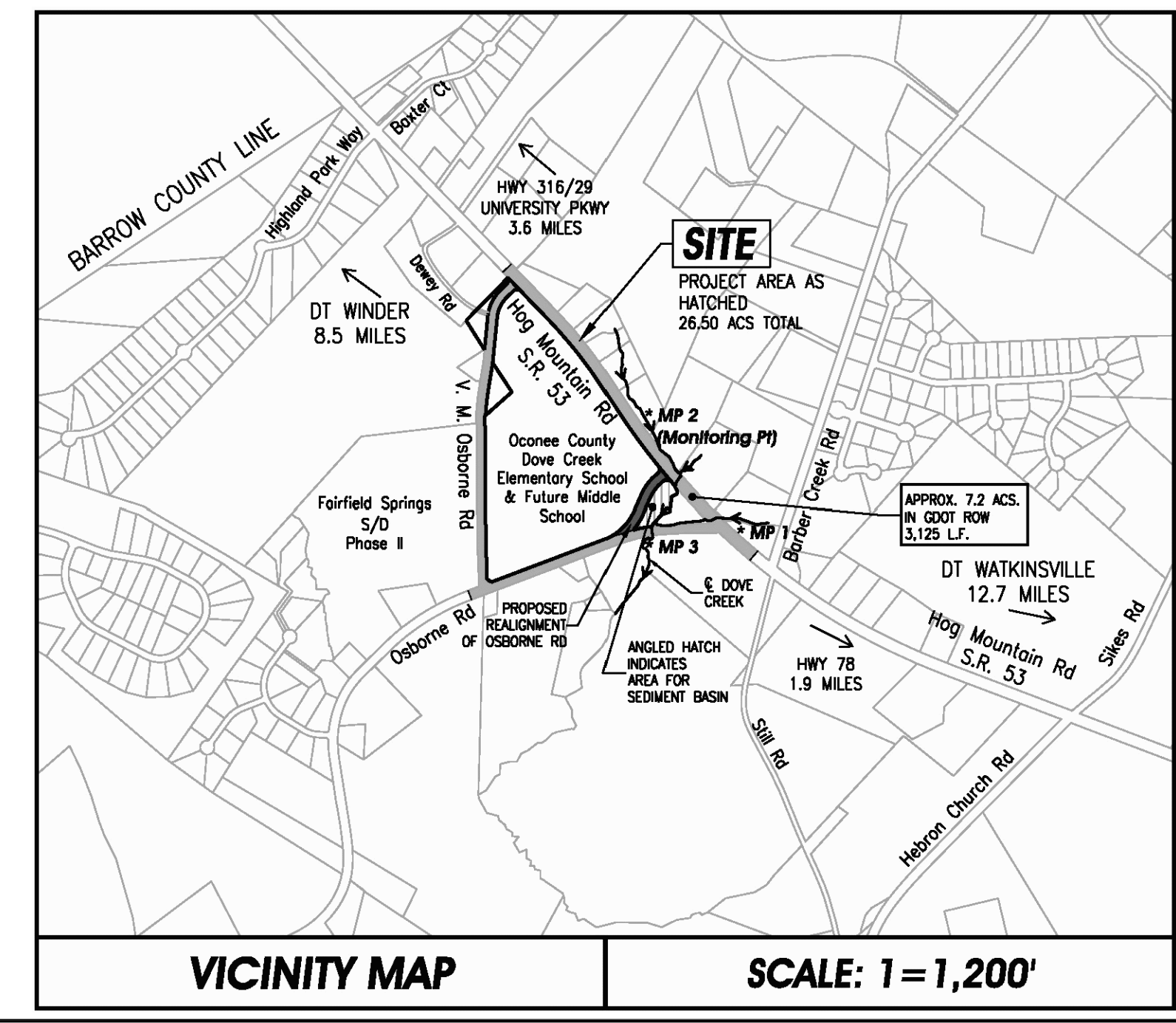
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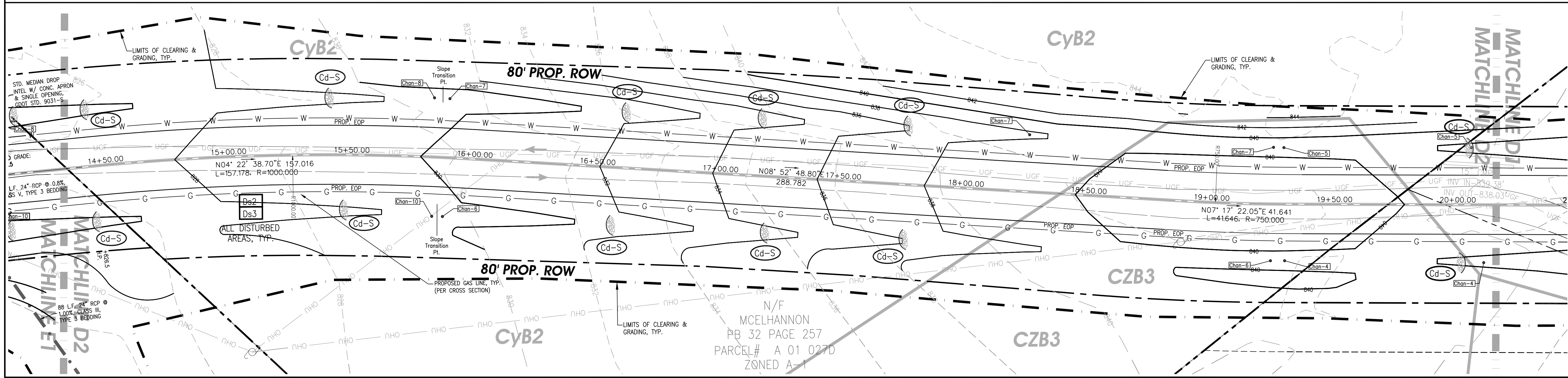
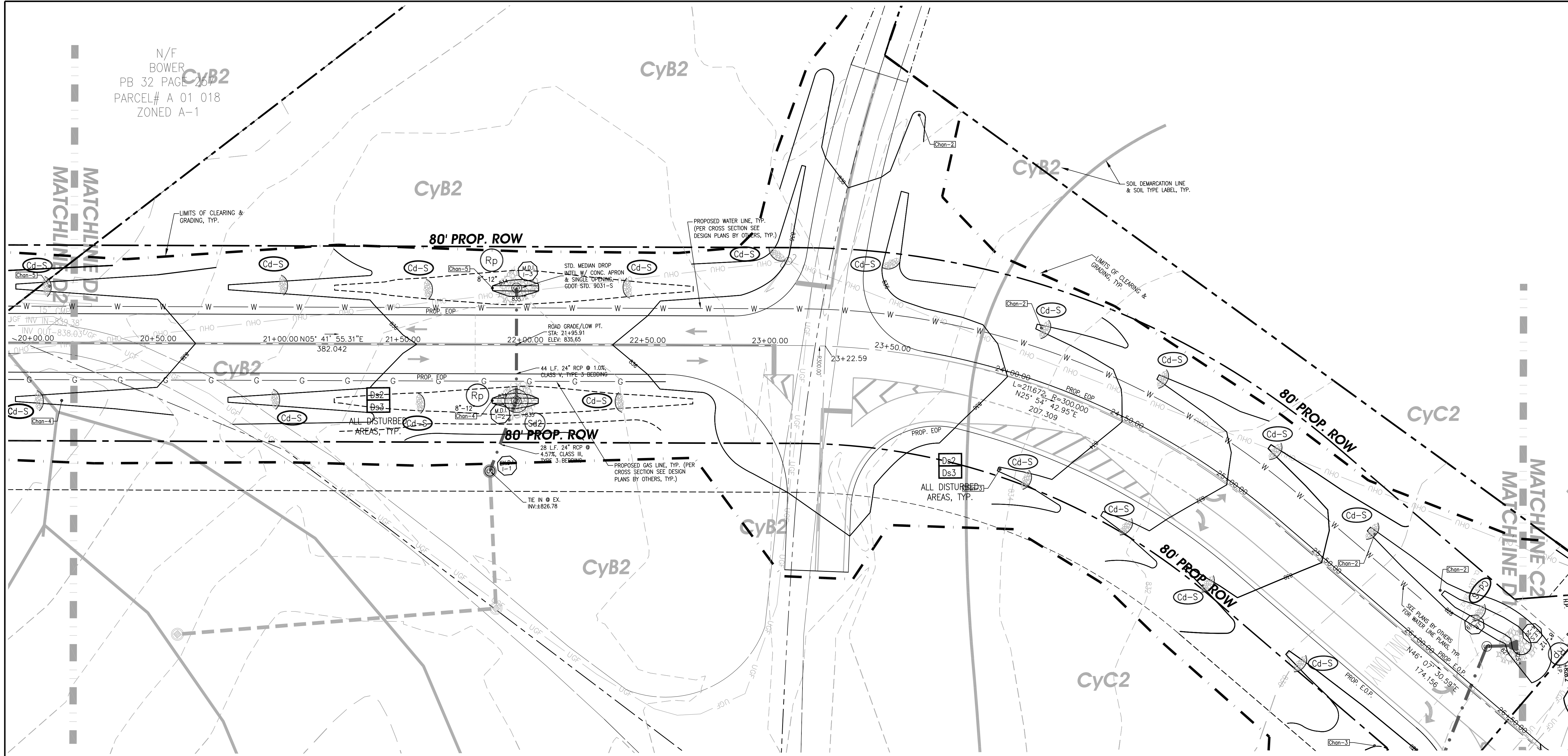
REVISIONS	DATE

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PROJECT #: 17-021-48
 GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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VICINITY MAP **SCALE: 1 = 1,200'**



N/F
BOWER
PB 32 PAGE 257
PARCEL# A 01 018
ZONED A-1

N/F
MCELHANNON
PB 32 PAGE 257
PARCEL# A 01 027D
ZONED A-1



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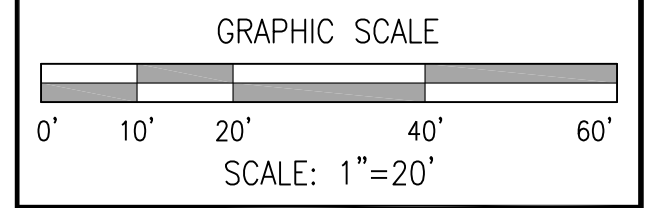
**ES&PC
 PHASE III - FINAL
 PLAN D**

ISSUED FOR BIDDING

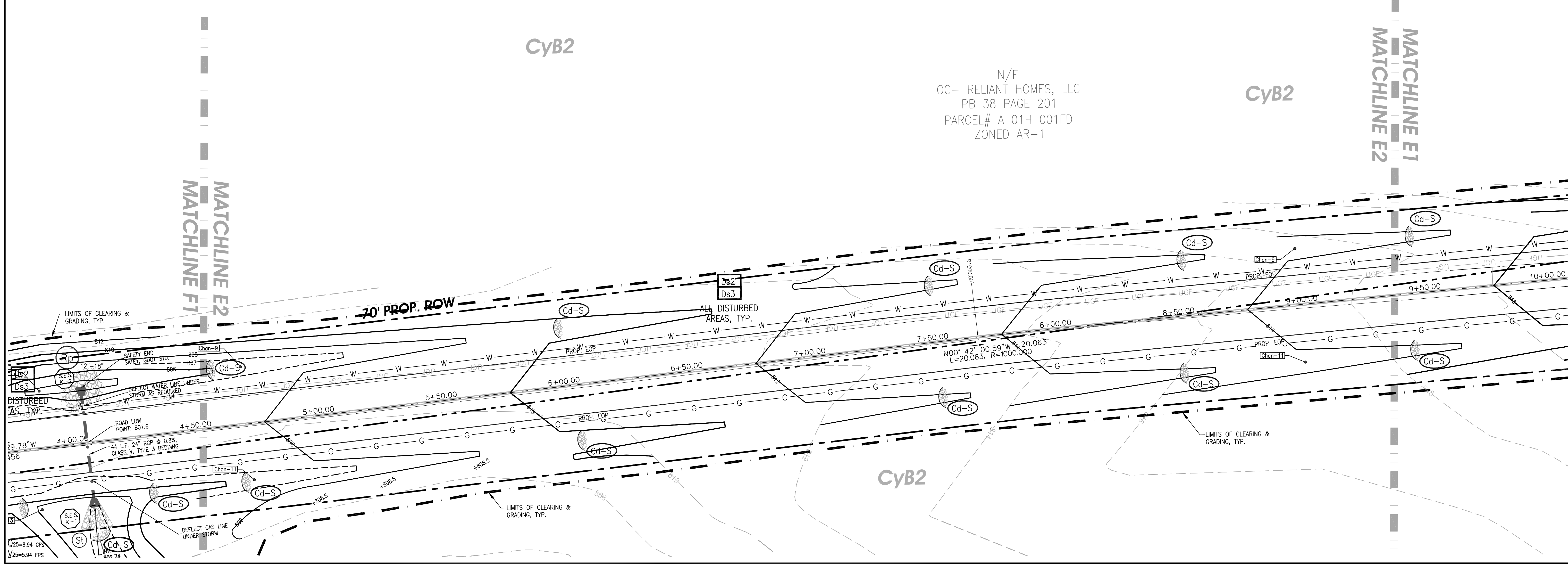
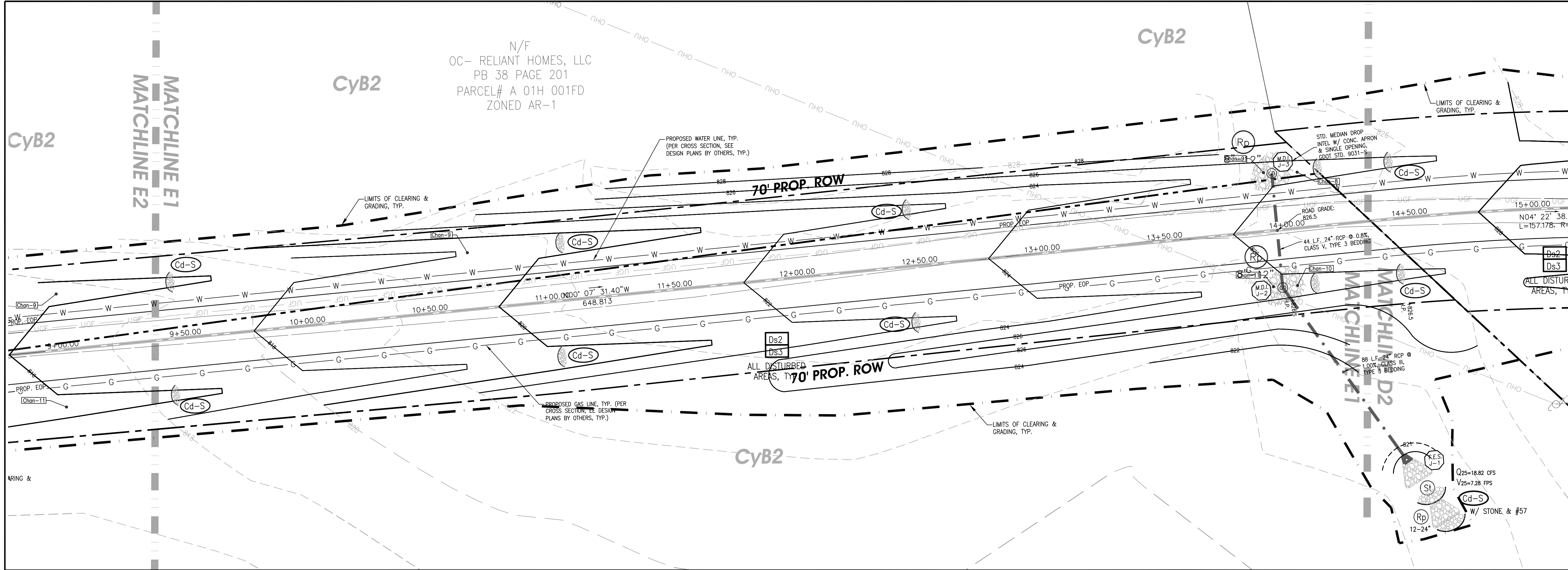


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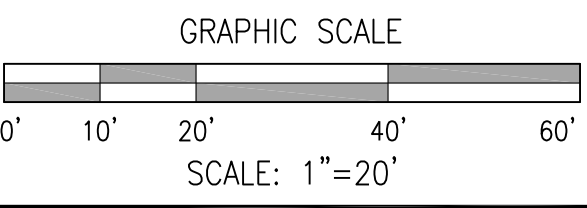
ES&PC
 PHASE II -
 INTERMEDIATE
 PLAN E

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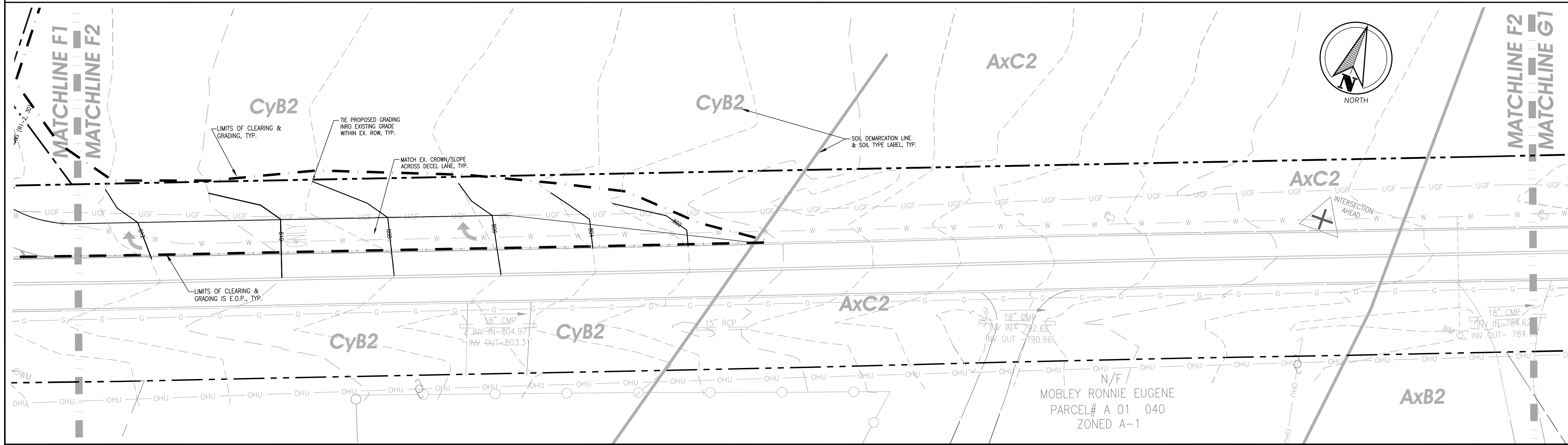
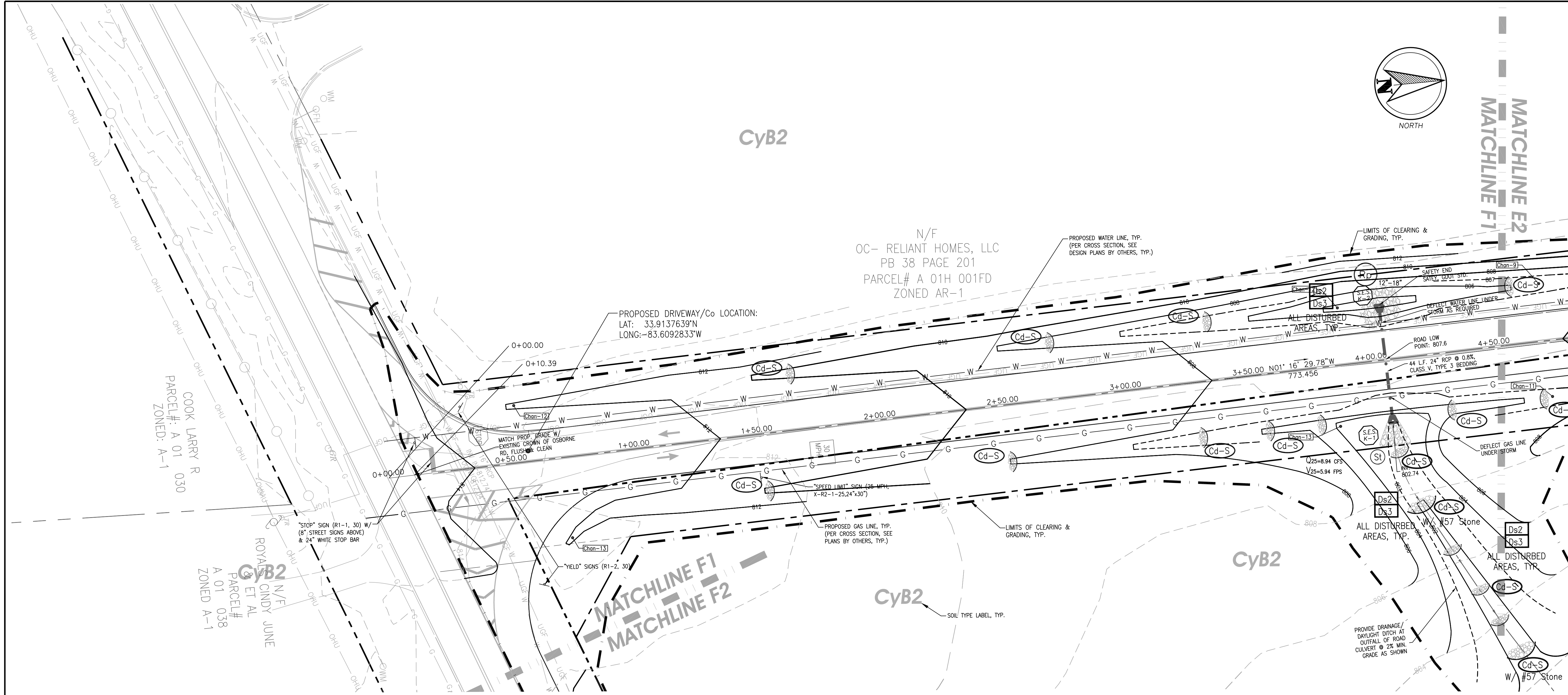


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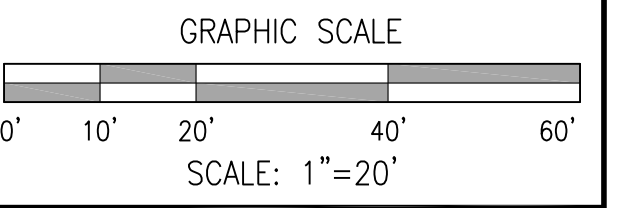
**ES&PC
 PHASE III - FINAL
 PLAN F**

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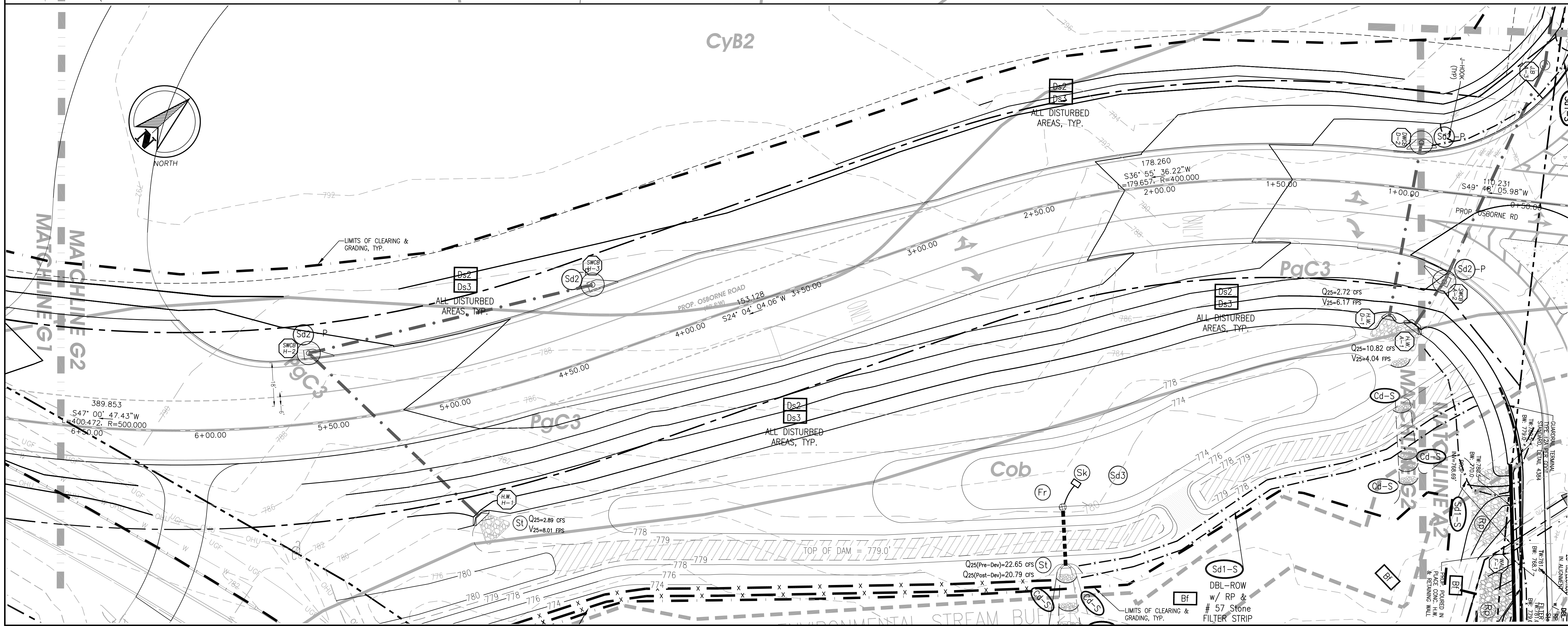
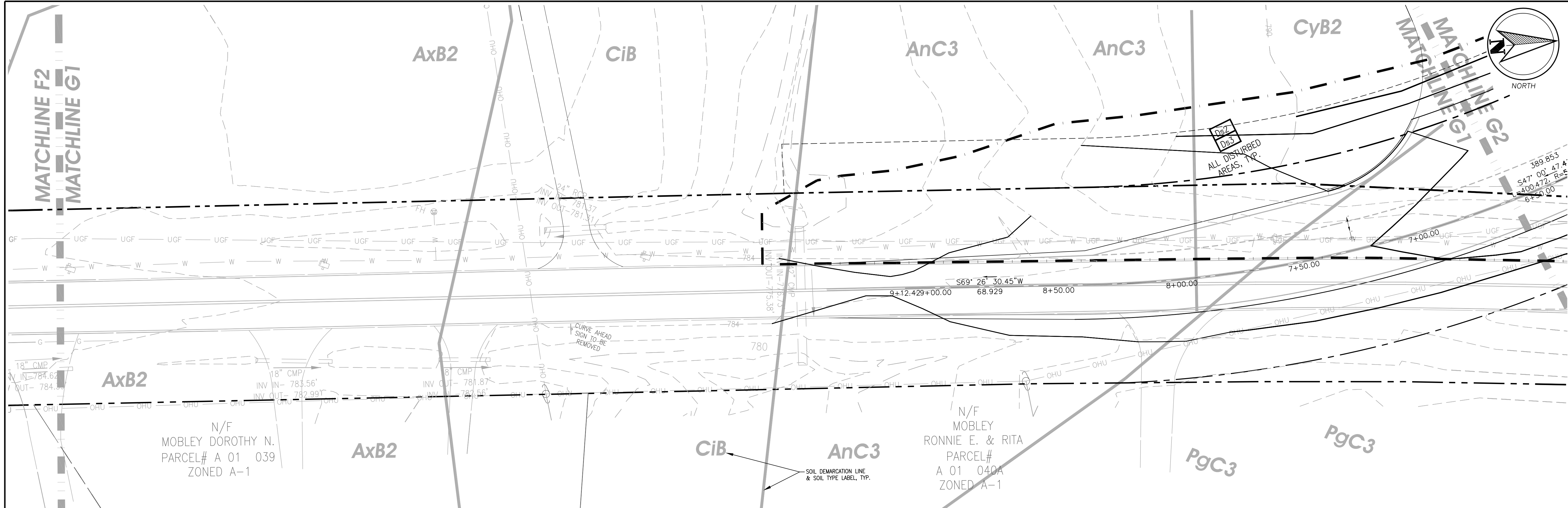
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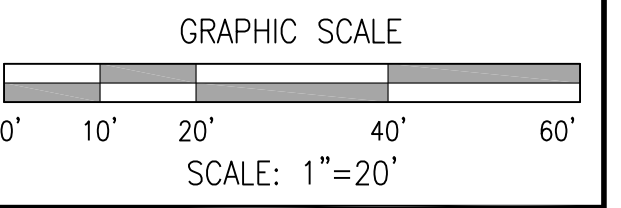
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 PHASE III - FINAL
 PLAN G**

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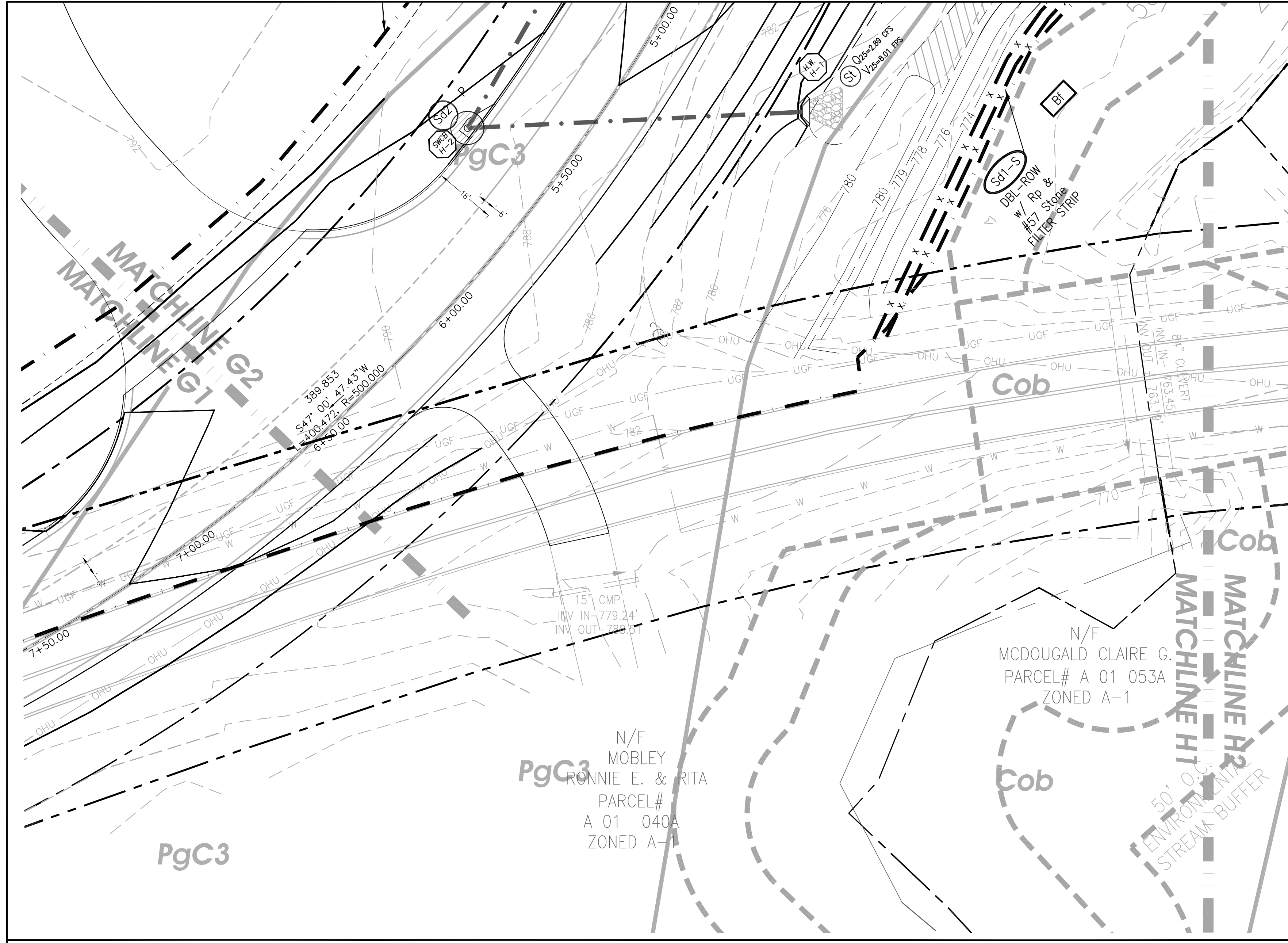


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LEGEND OF SURVEY ABBREVIATIONS/ SYMBOLS

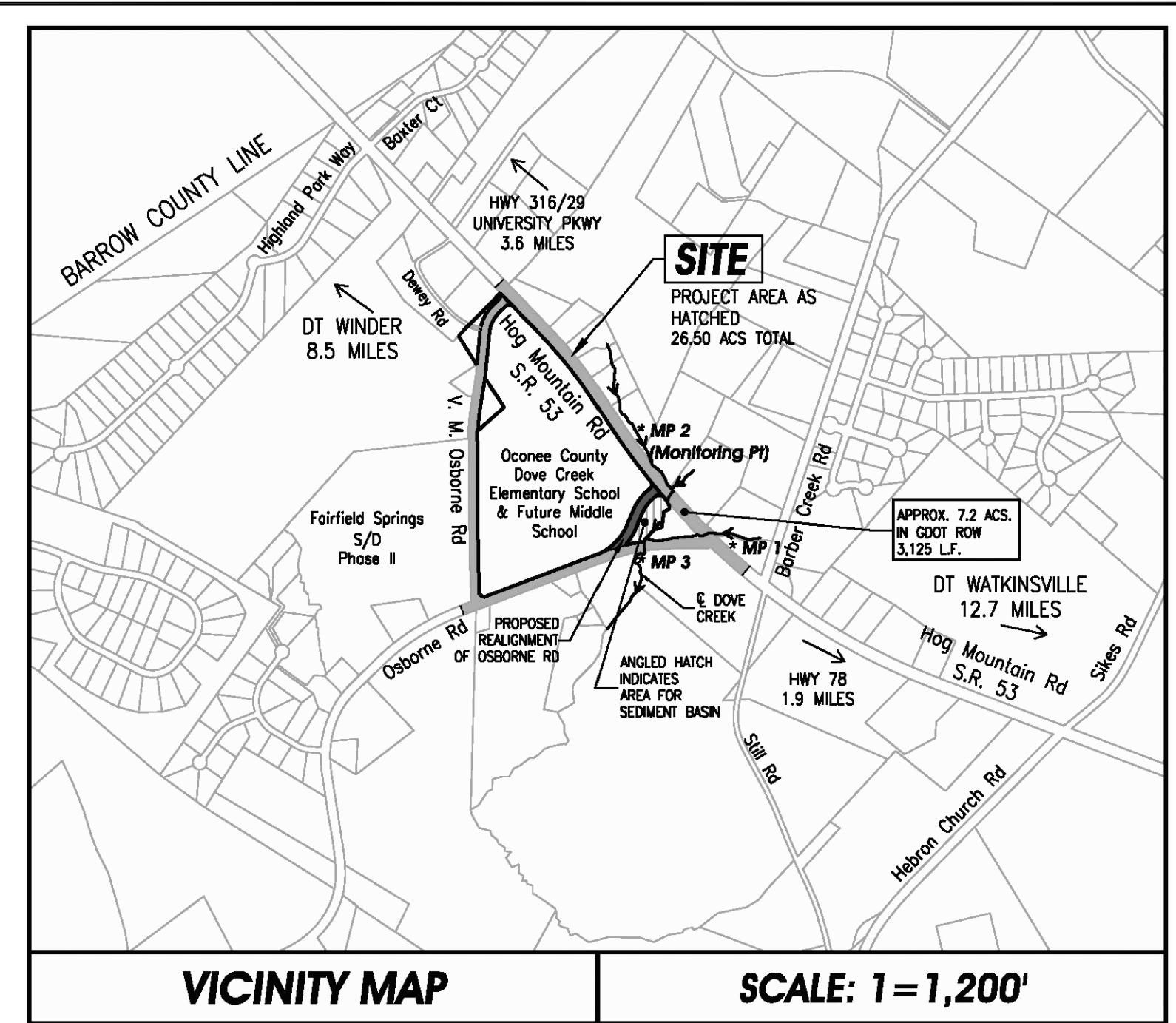
A	ARC LENGTH	BACKFLOW PREVENTER
A/C	AIR CONDITIONER	BENCHMARK
AE	ACCESS EASEMENT	BOLLARD
ASPH	ASPHALT	BURIED CABLE POST
BC	BACK OF CURB	CATCH BASIN (SINGLE WING)
BLDG	BUILDING	CATCH BASIN (DOUBLE WING)
BSL	BUILDING SETBACK LINE	CHAIN LINK FENCE
CC	CALCULATED CORNER	DRAIN-YARD INLET AS LABELED
CL	CENTERLINE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

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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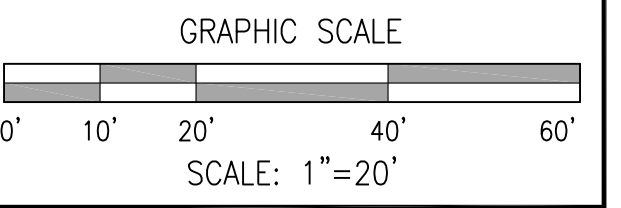
ES&PC PHASE III - FINAL PLAN H

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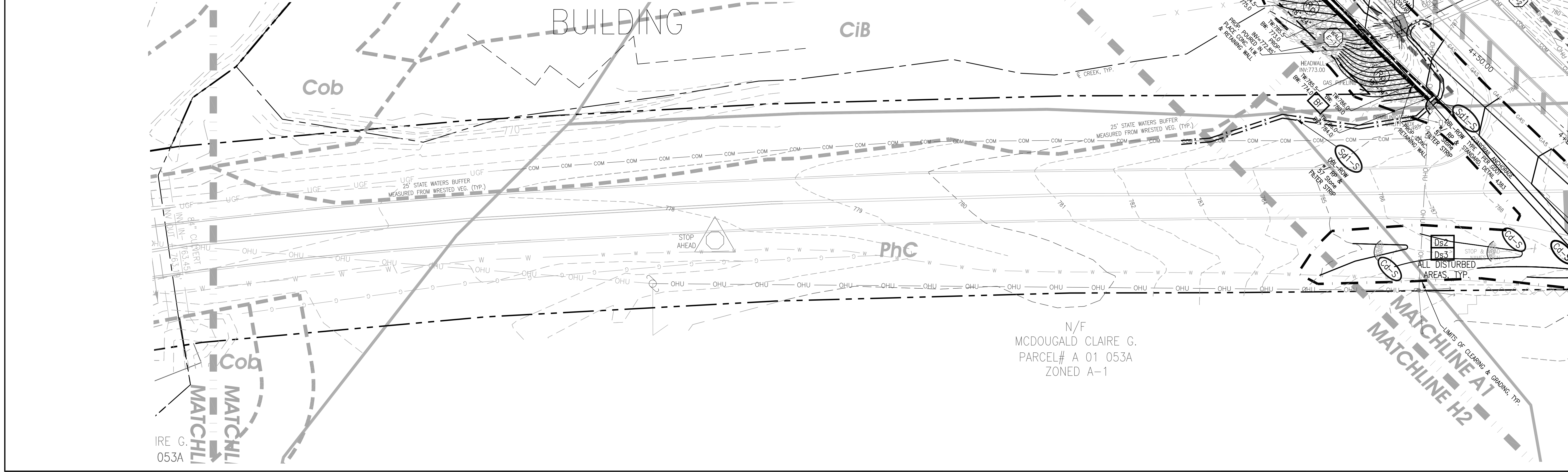


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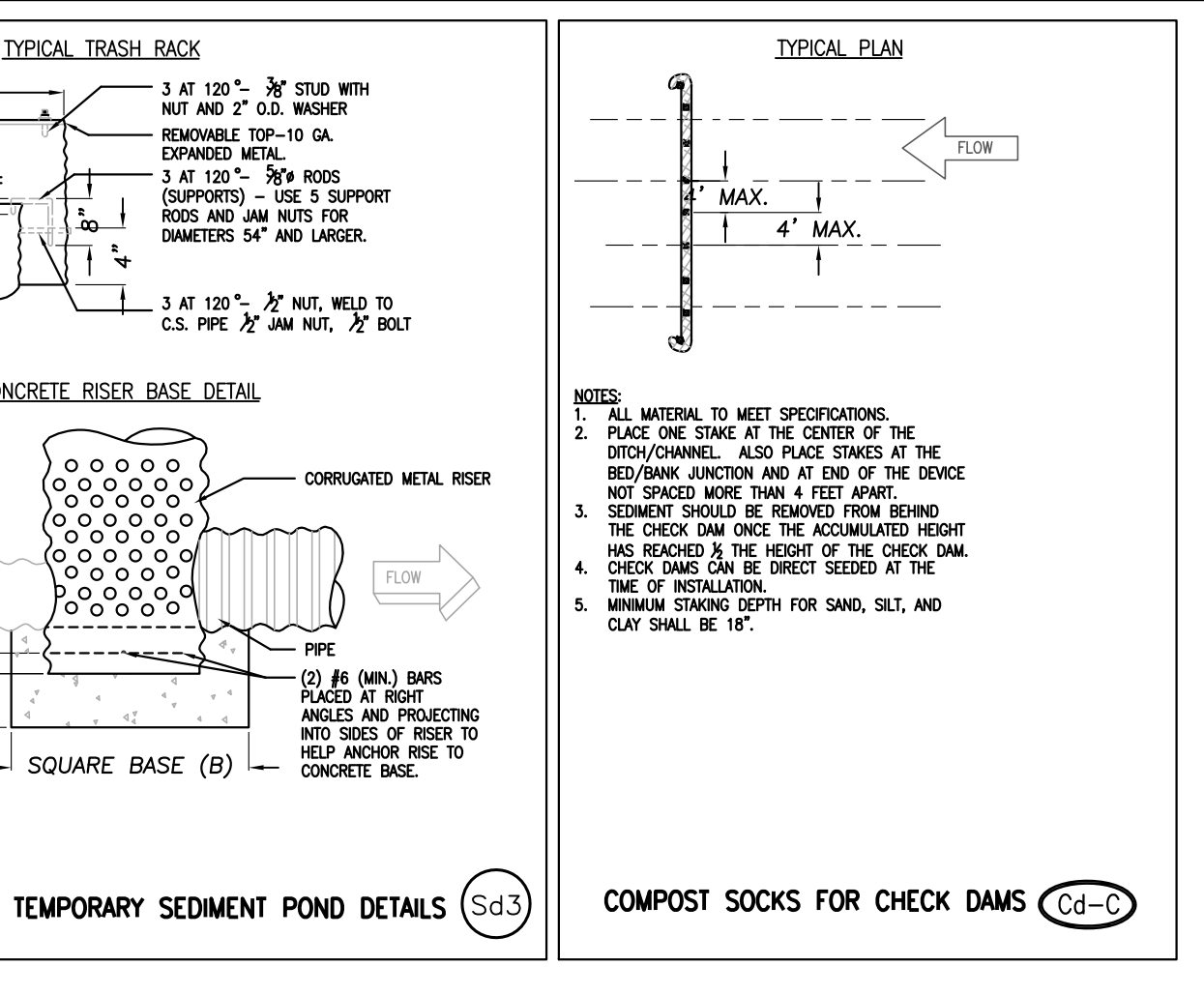
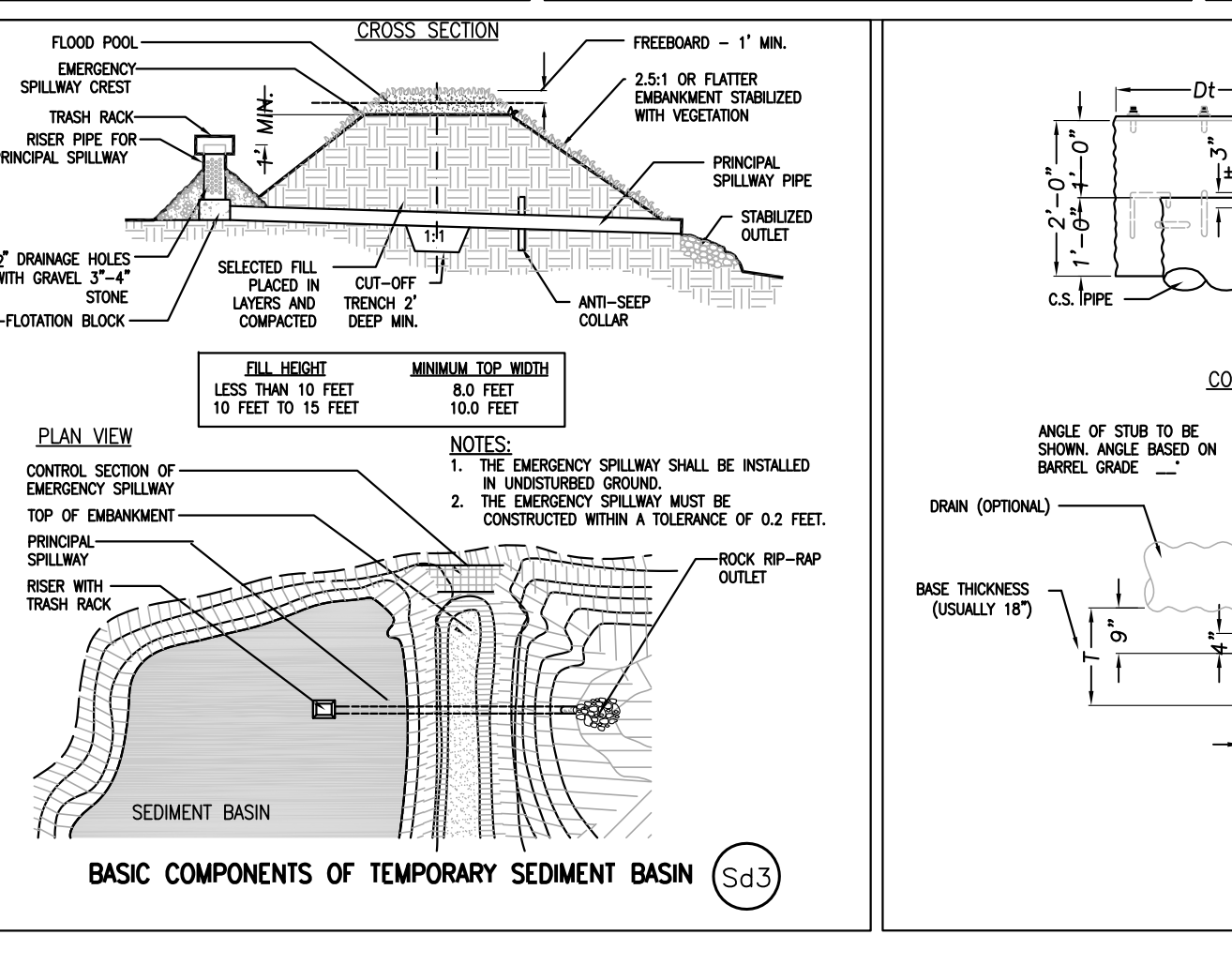
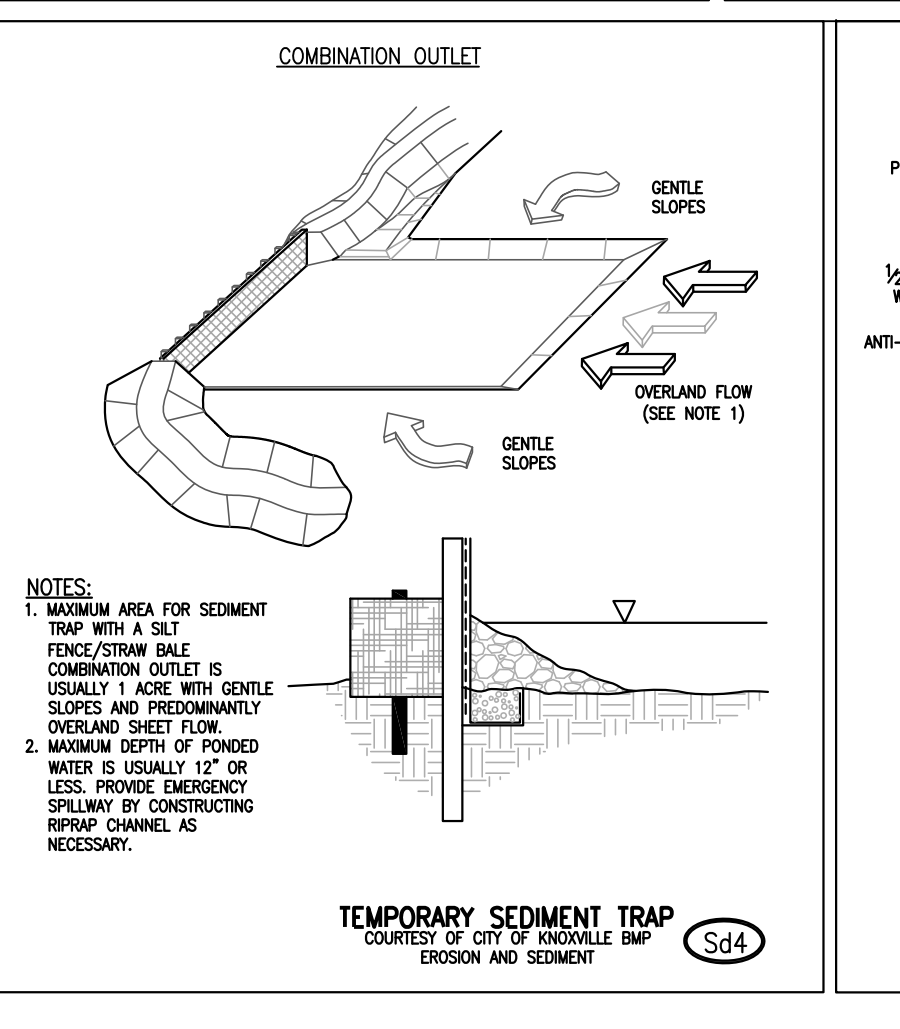
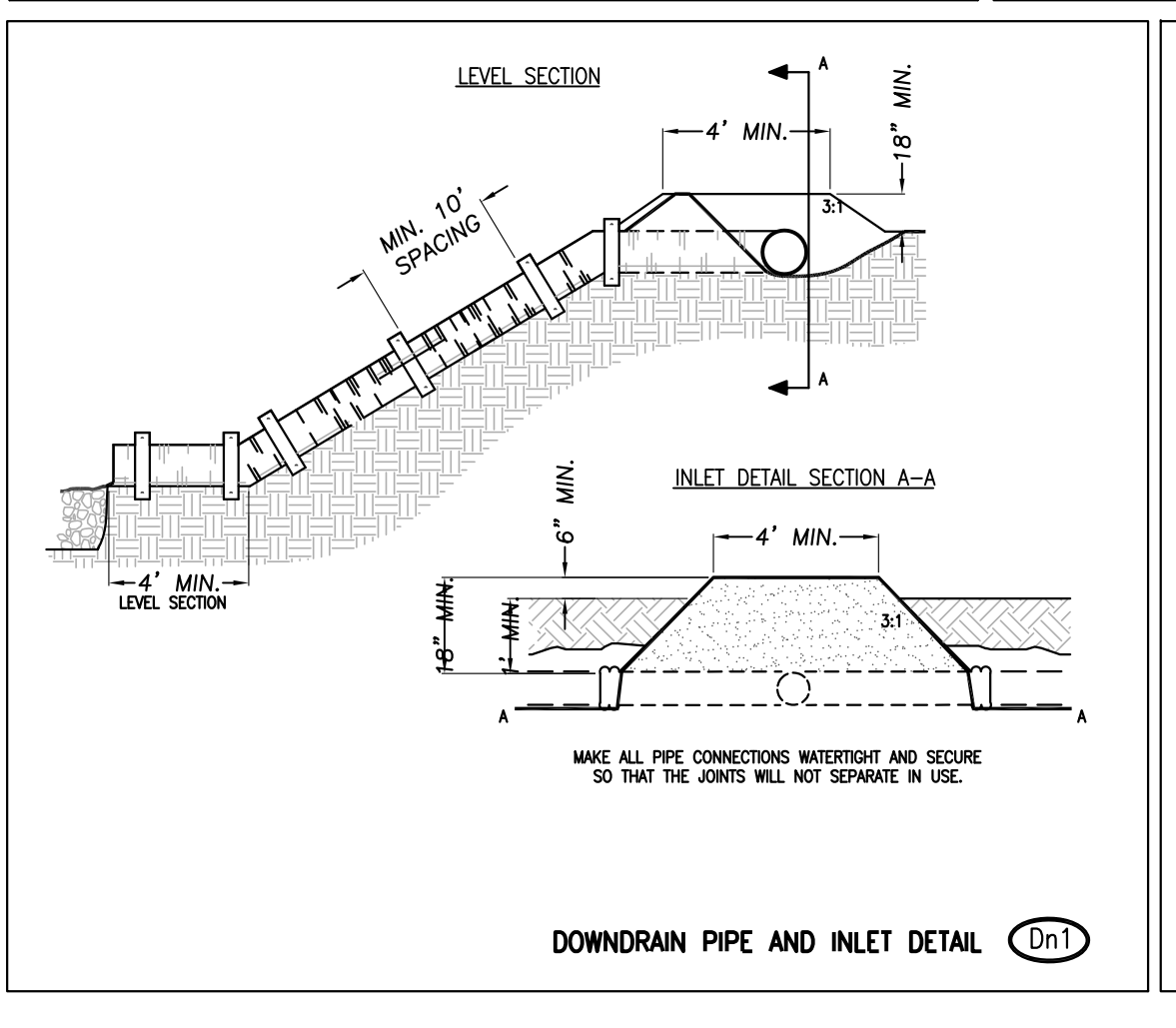
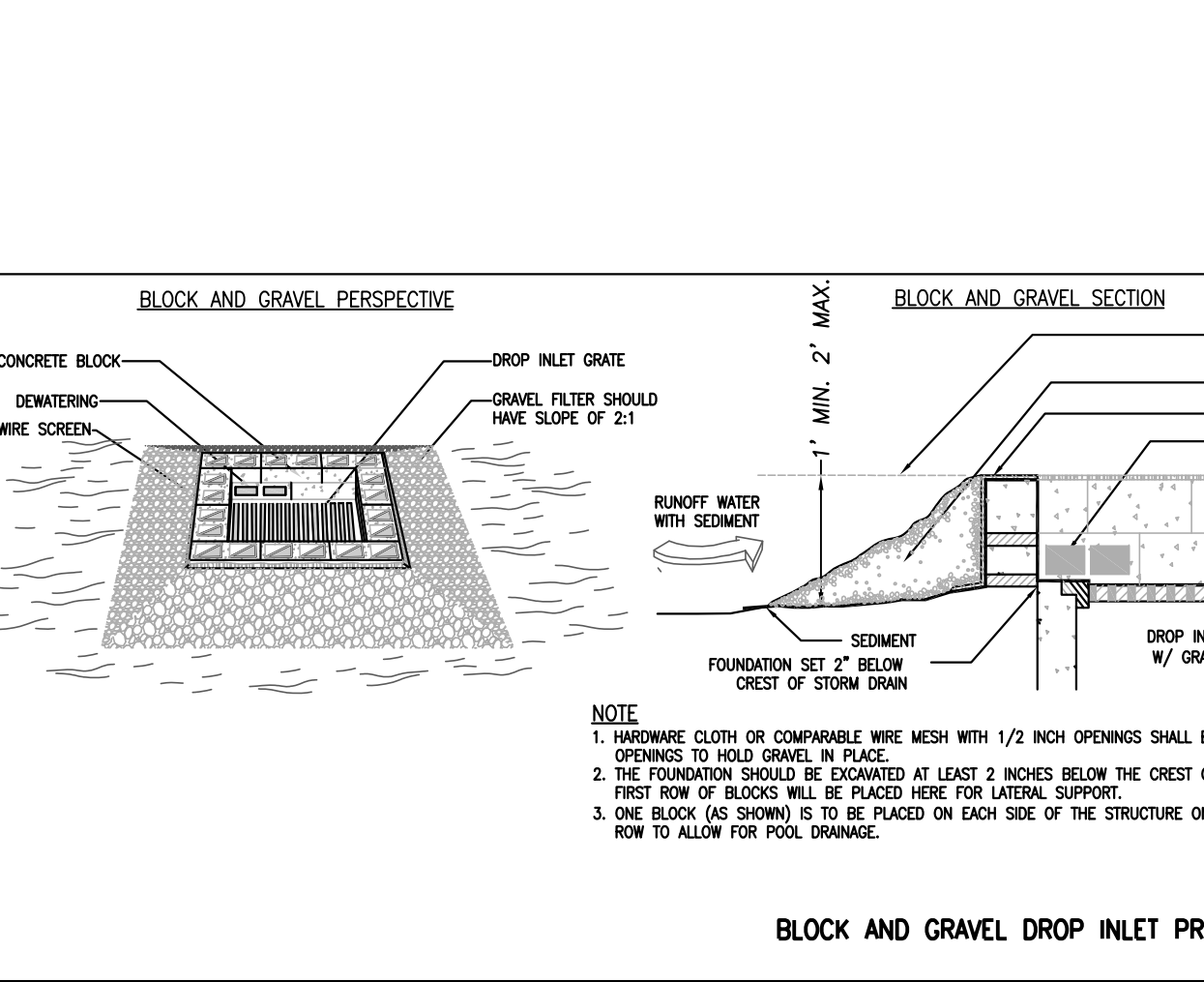
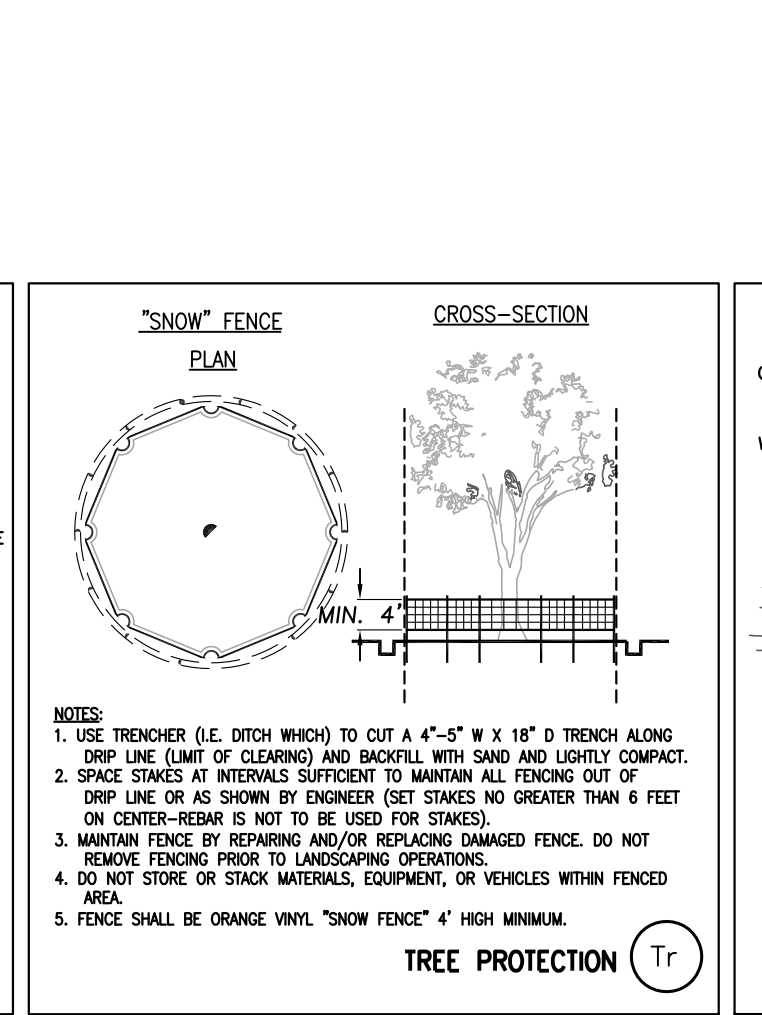
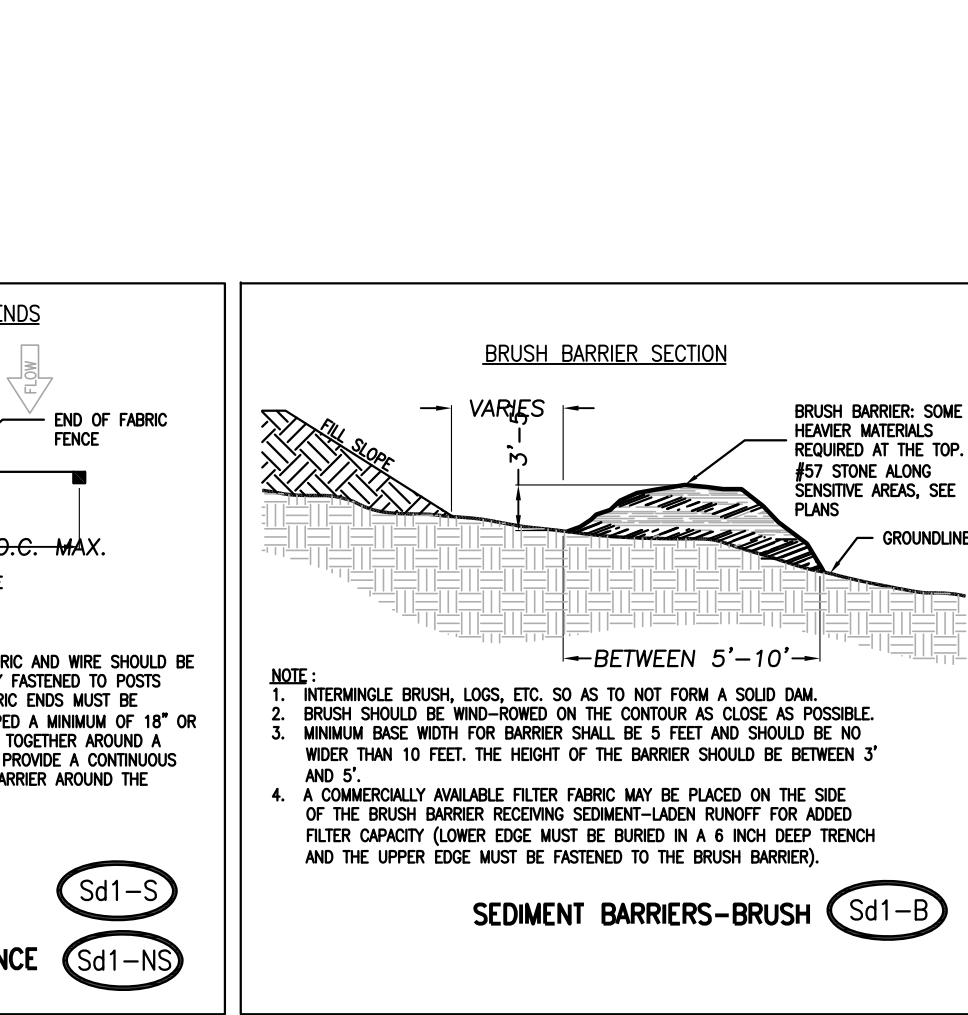
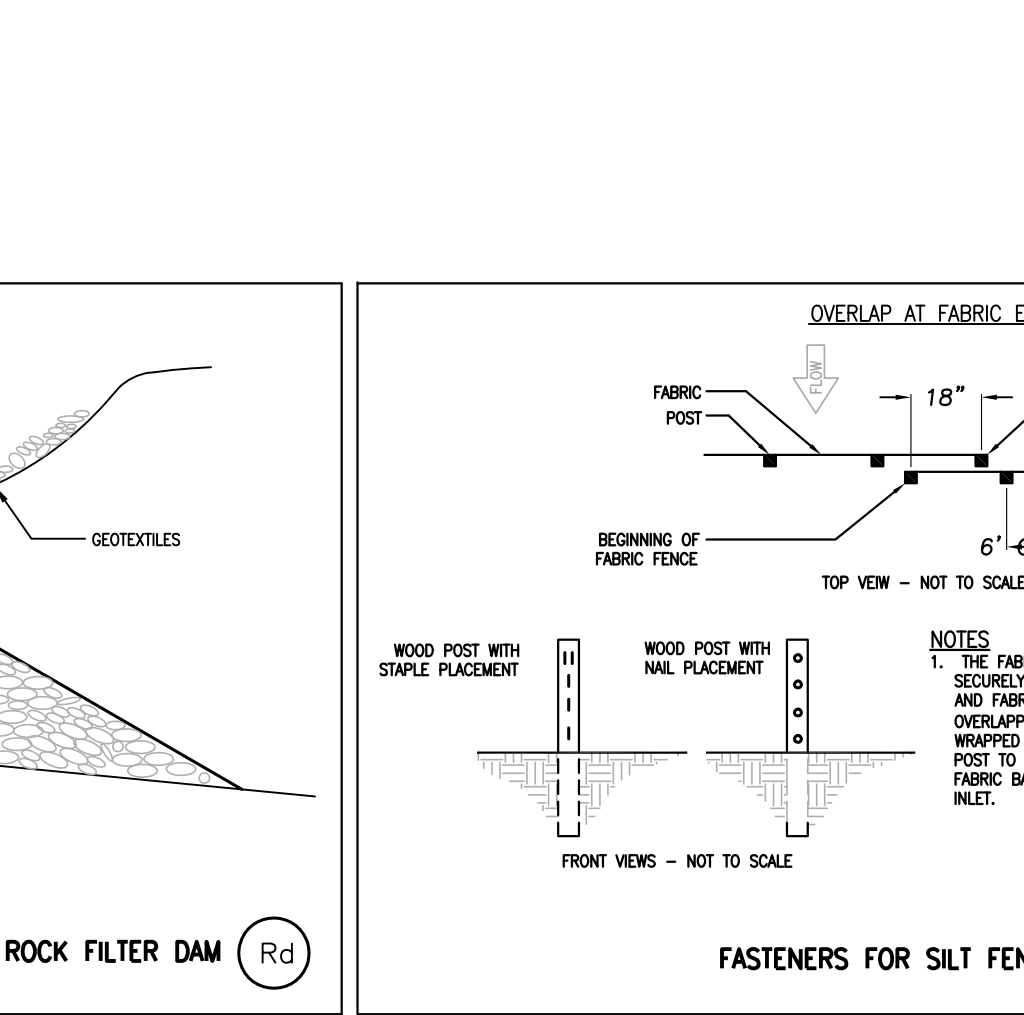
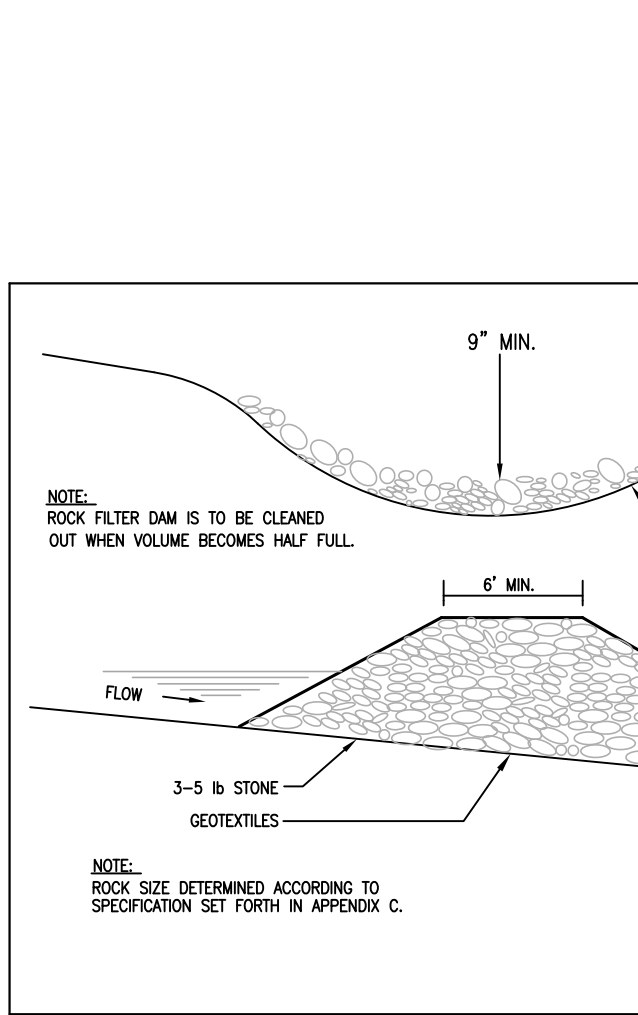
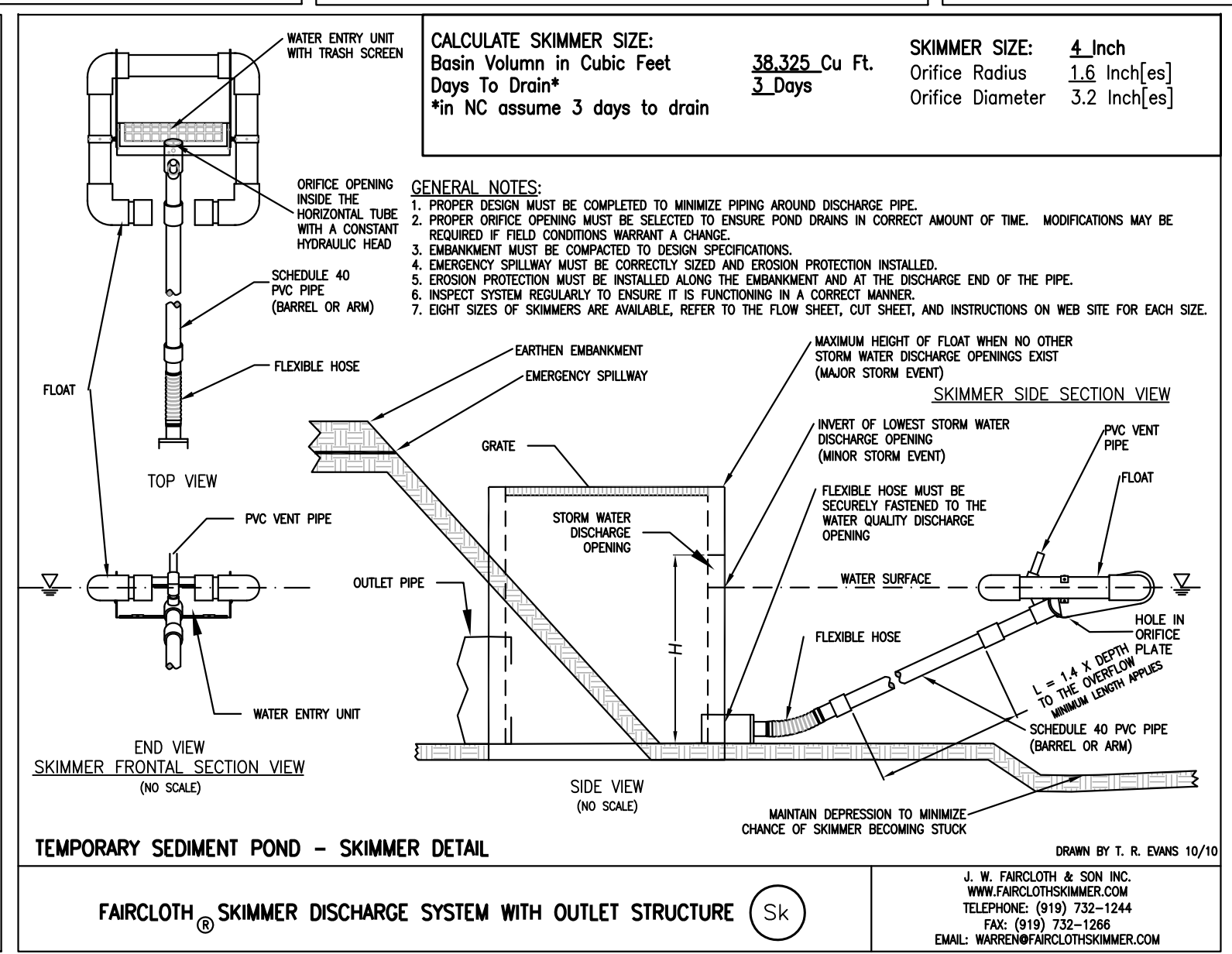
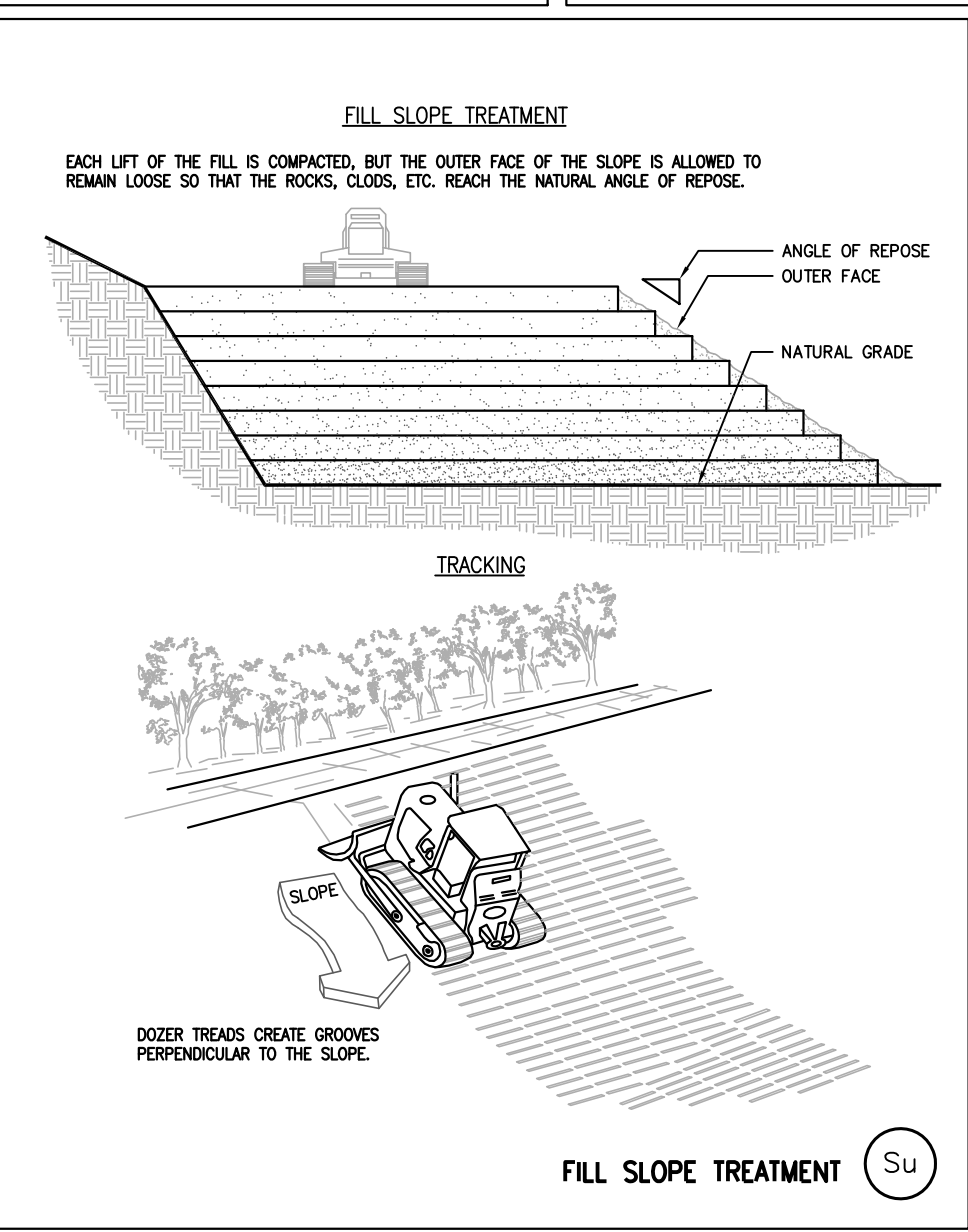
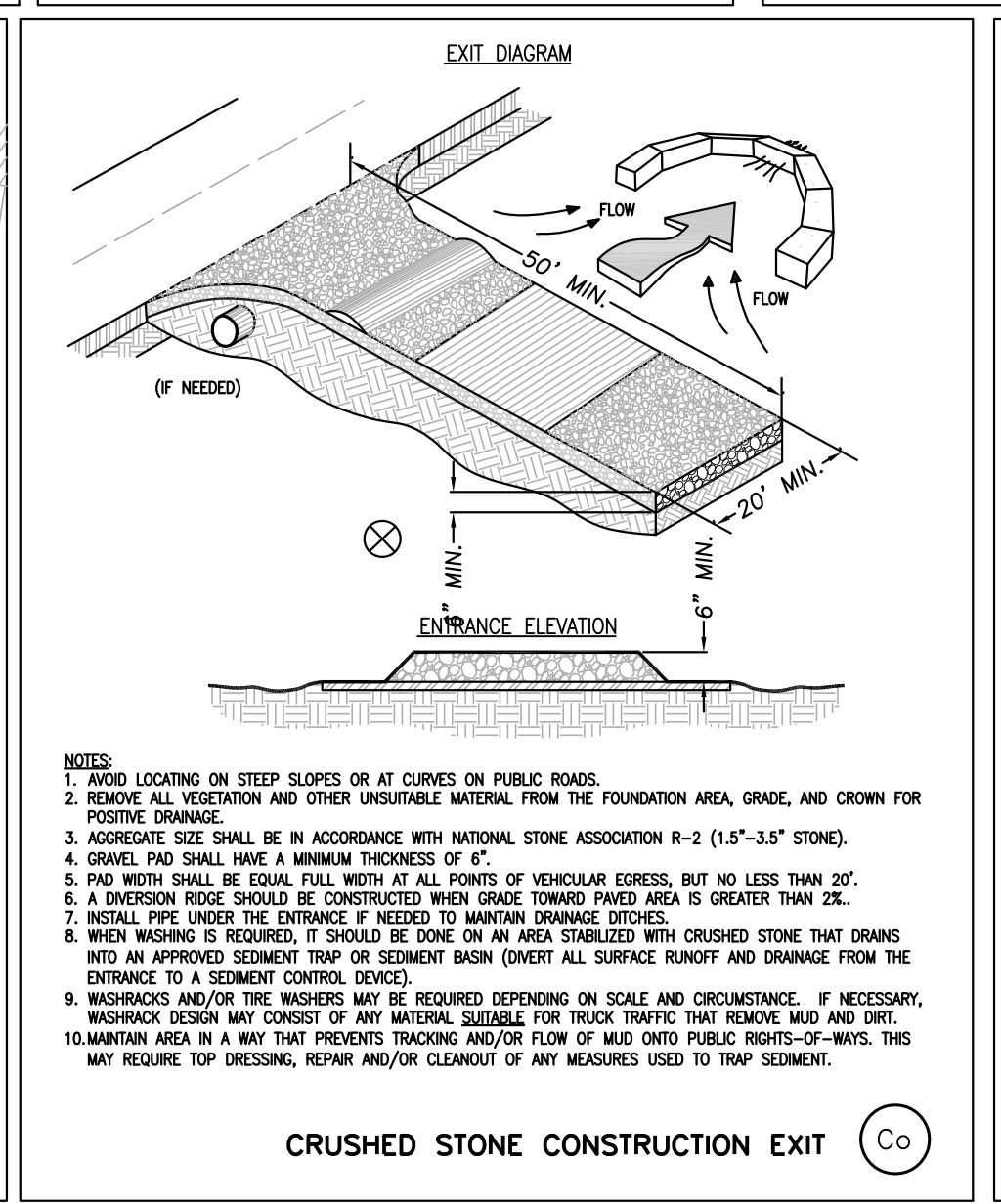
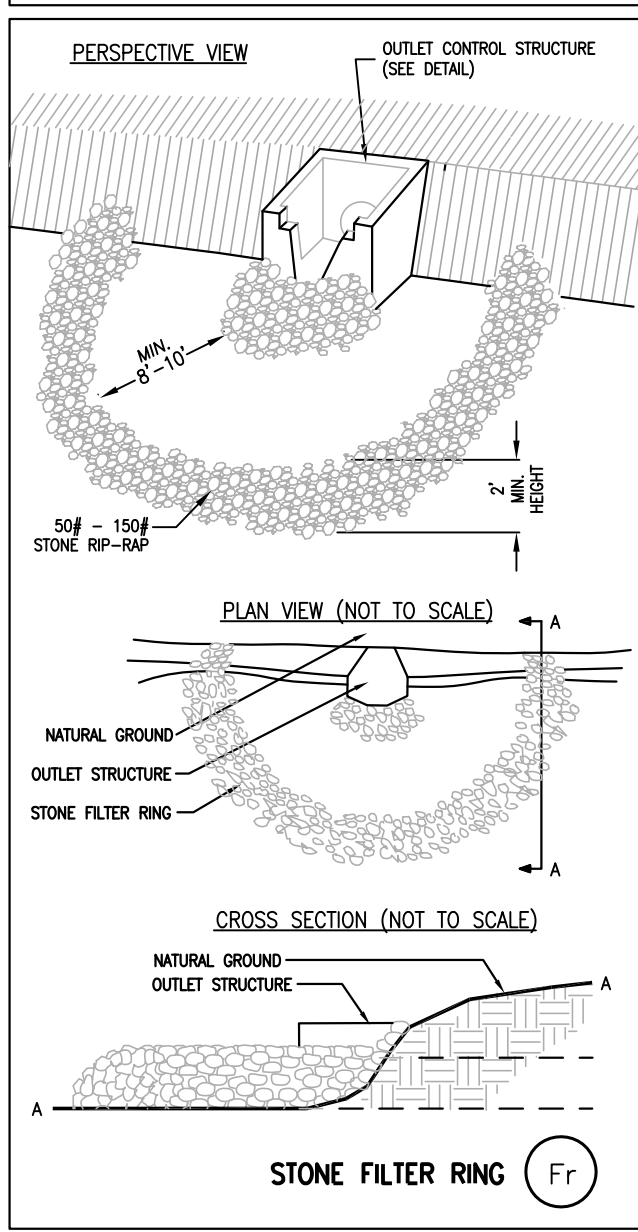
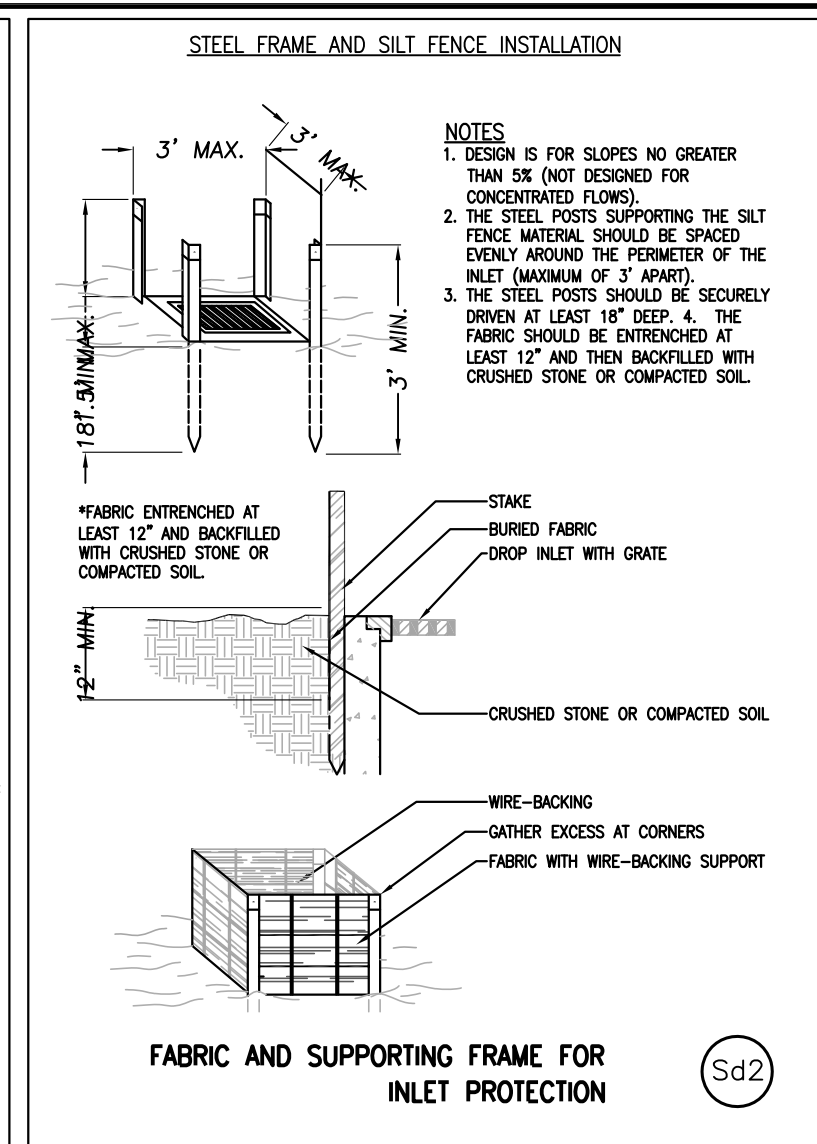
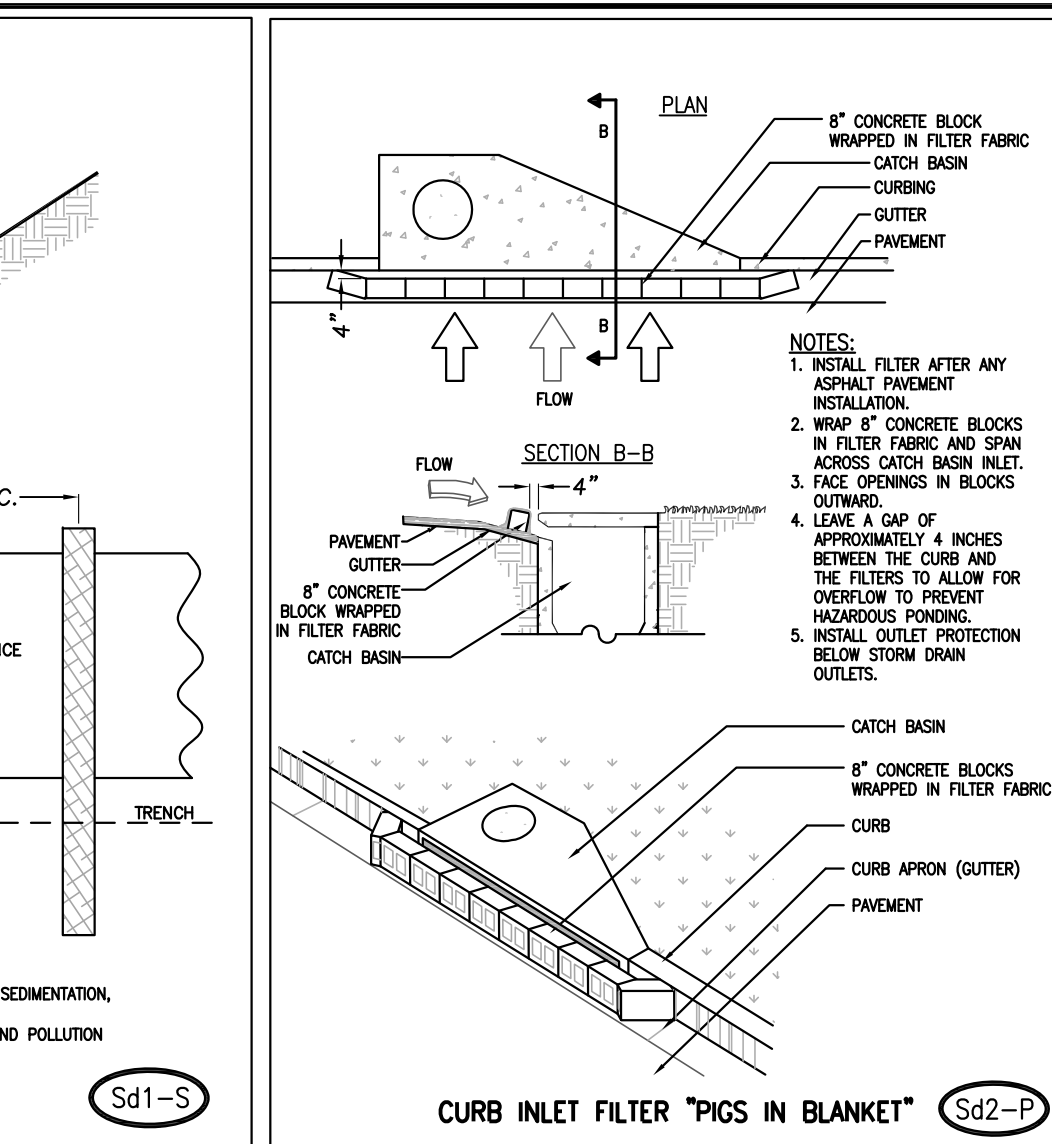
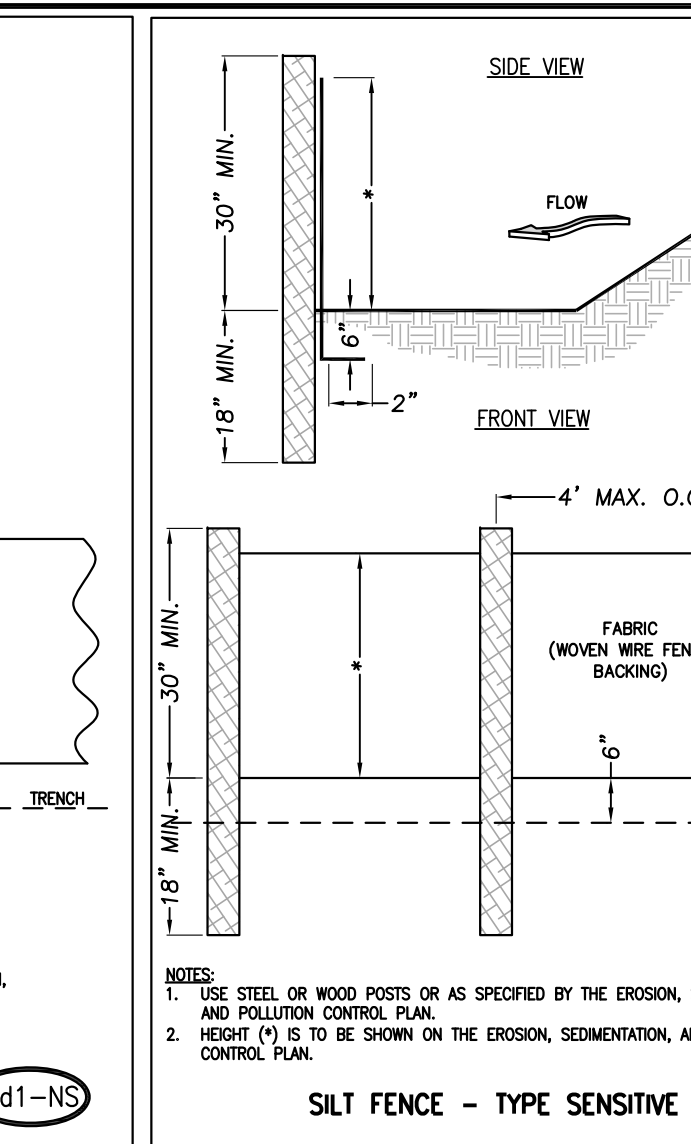
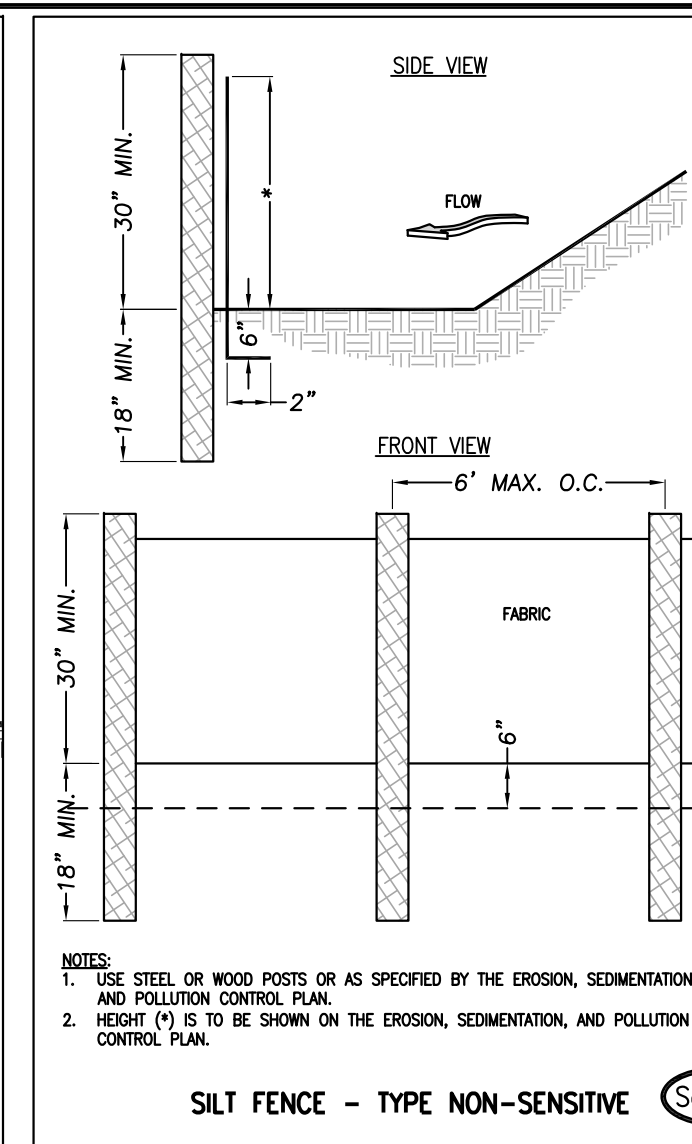
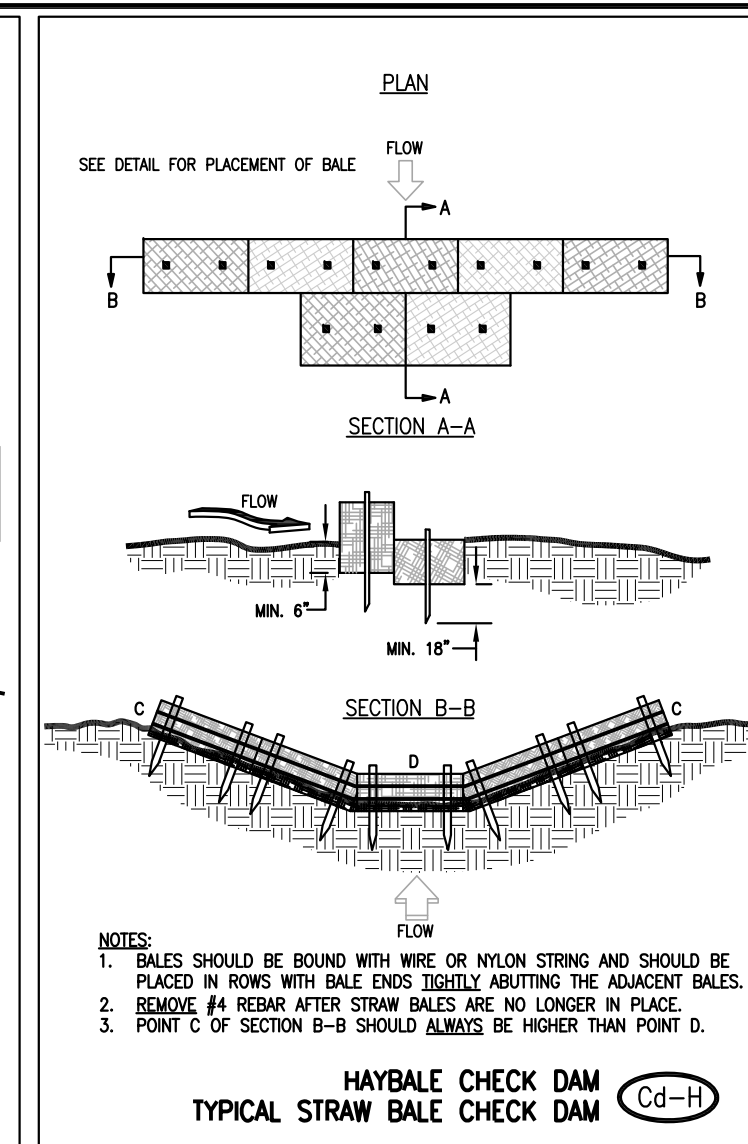
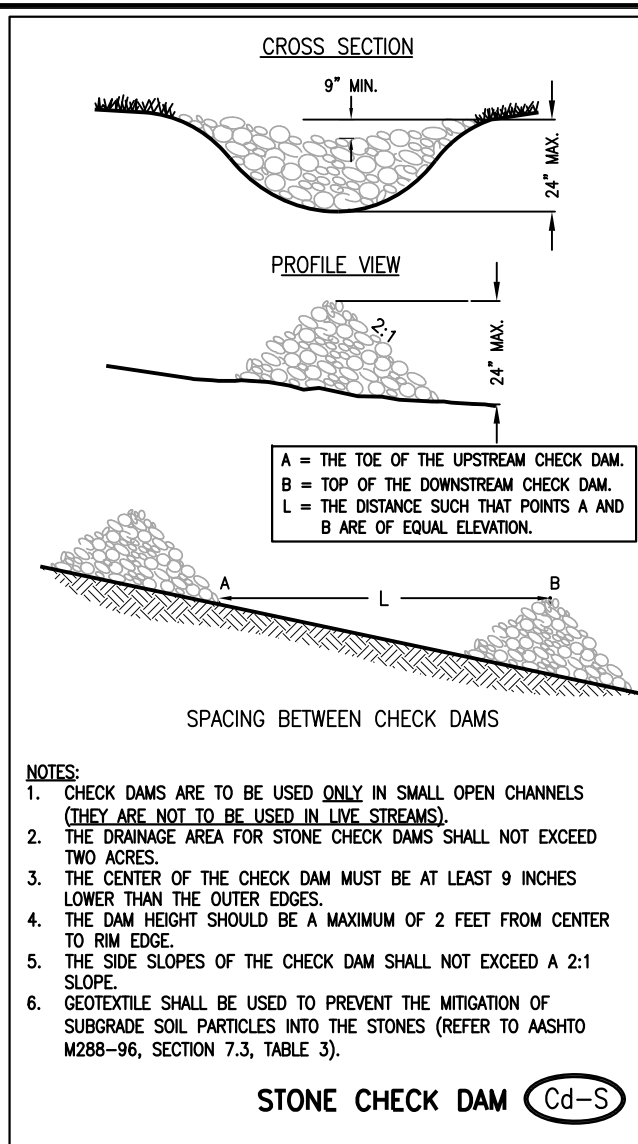


STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a base for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A roadway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Go	GABION			Rock filler baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where alternate the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be a silt fence, bank of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature is a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSIDING			The practice of shipping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONCOURSE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

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



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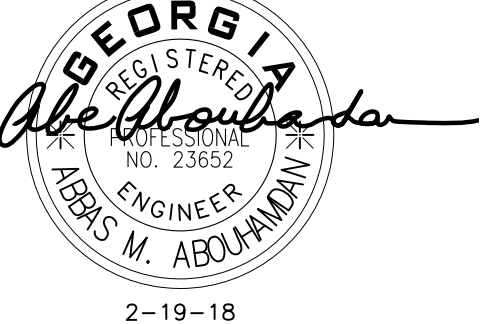
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DOVE CREEK SCHOOL R/W IMPROVEMENTS

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

ES&PC DETAILS "A" & LEGEND (BASED ON UNIFORM CODING SYSTEM)

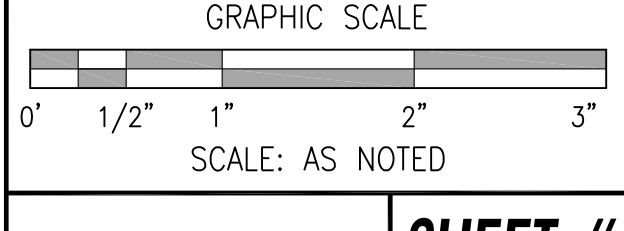
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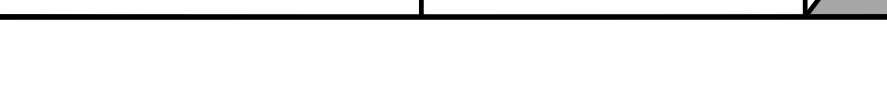
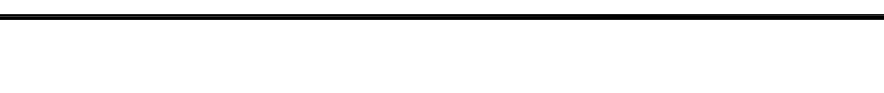
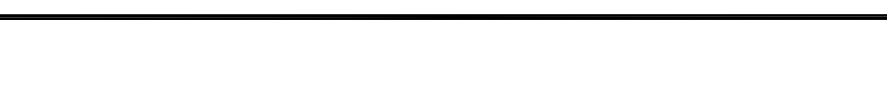
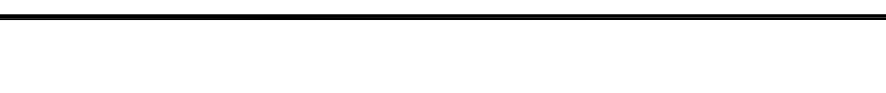
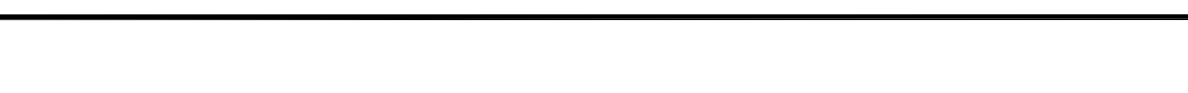
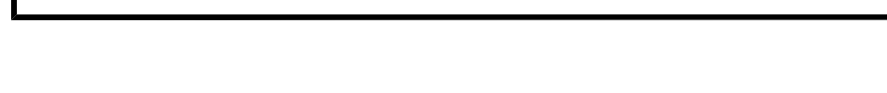
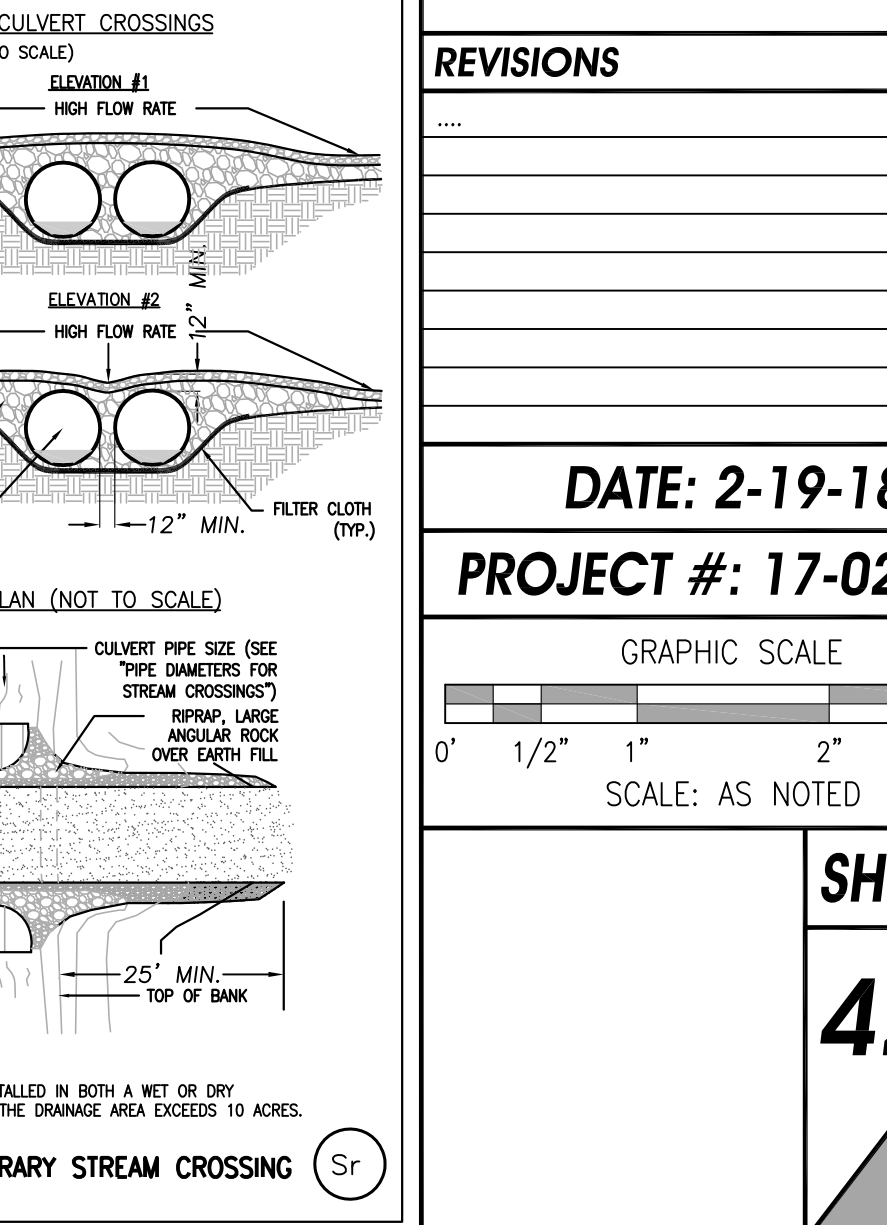
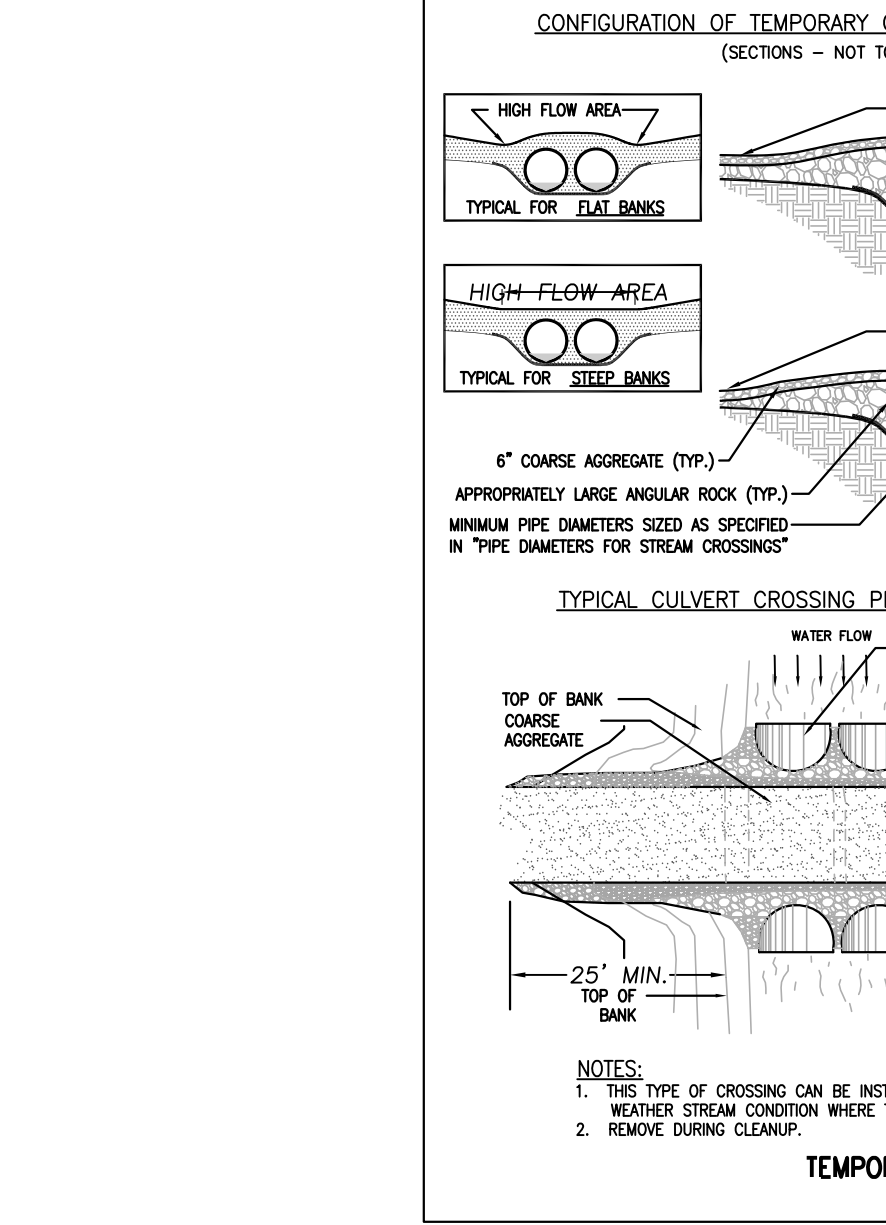
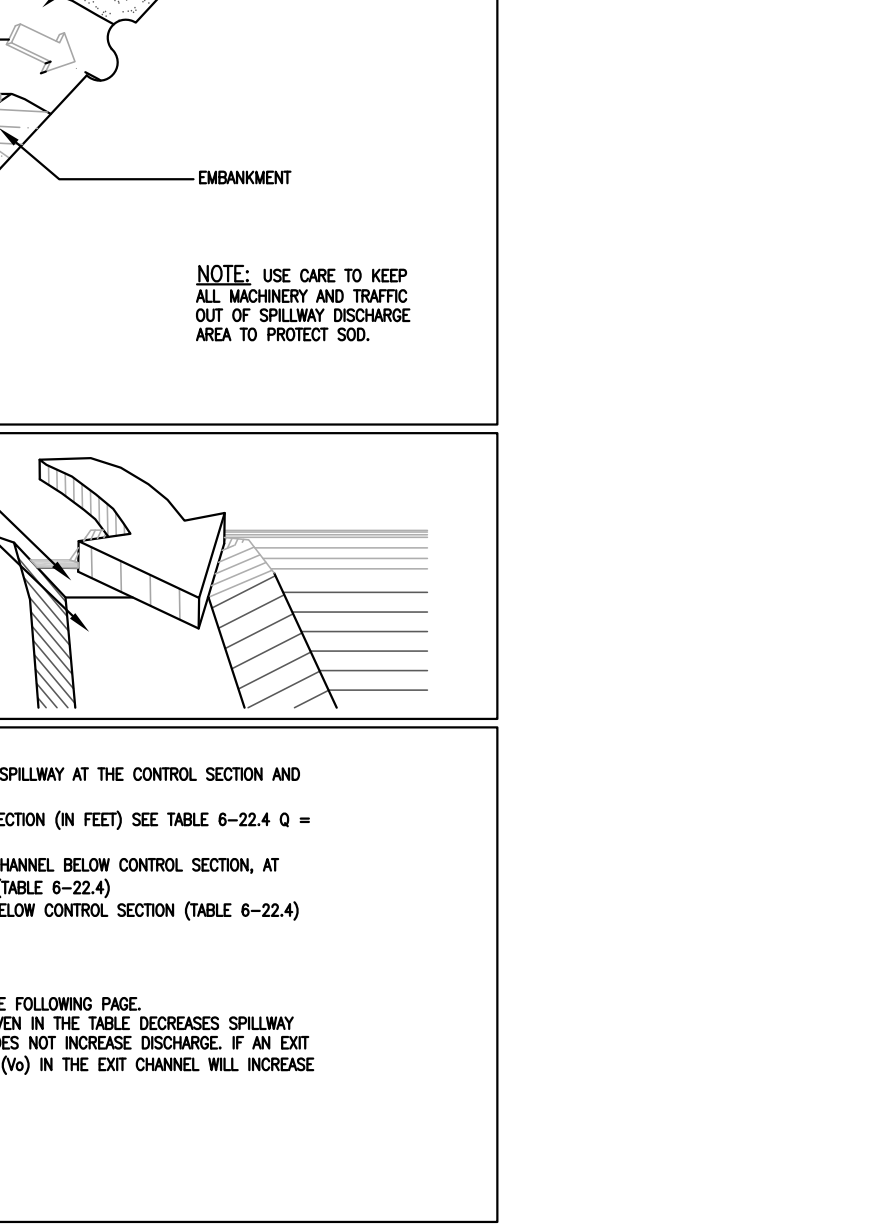
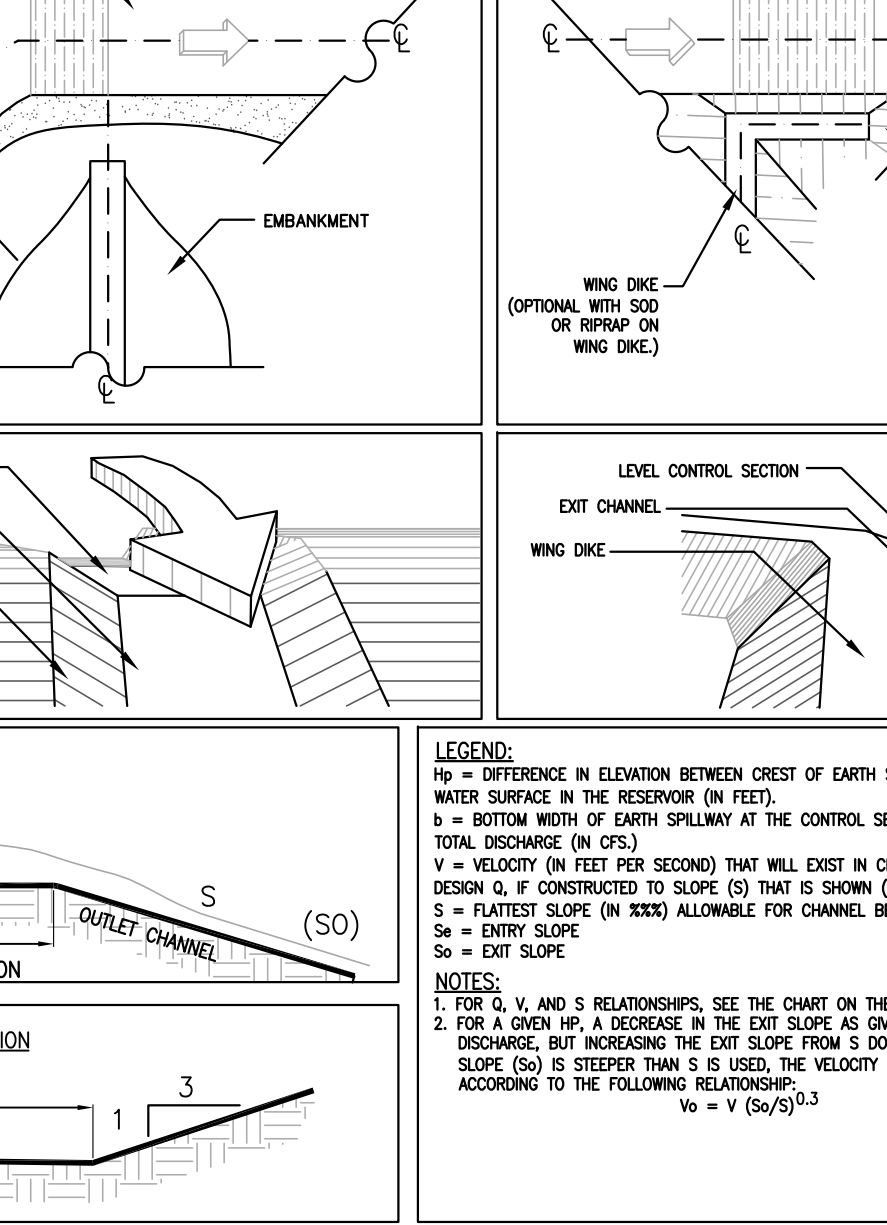
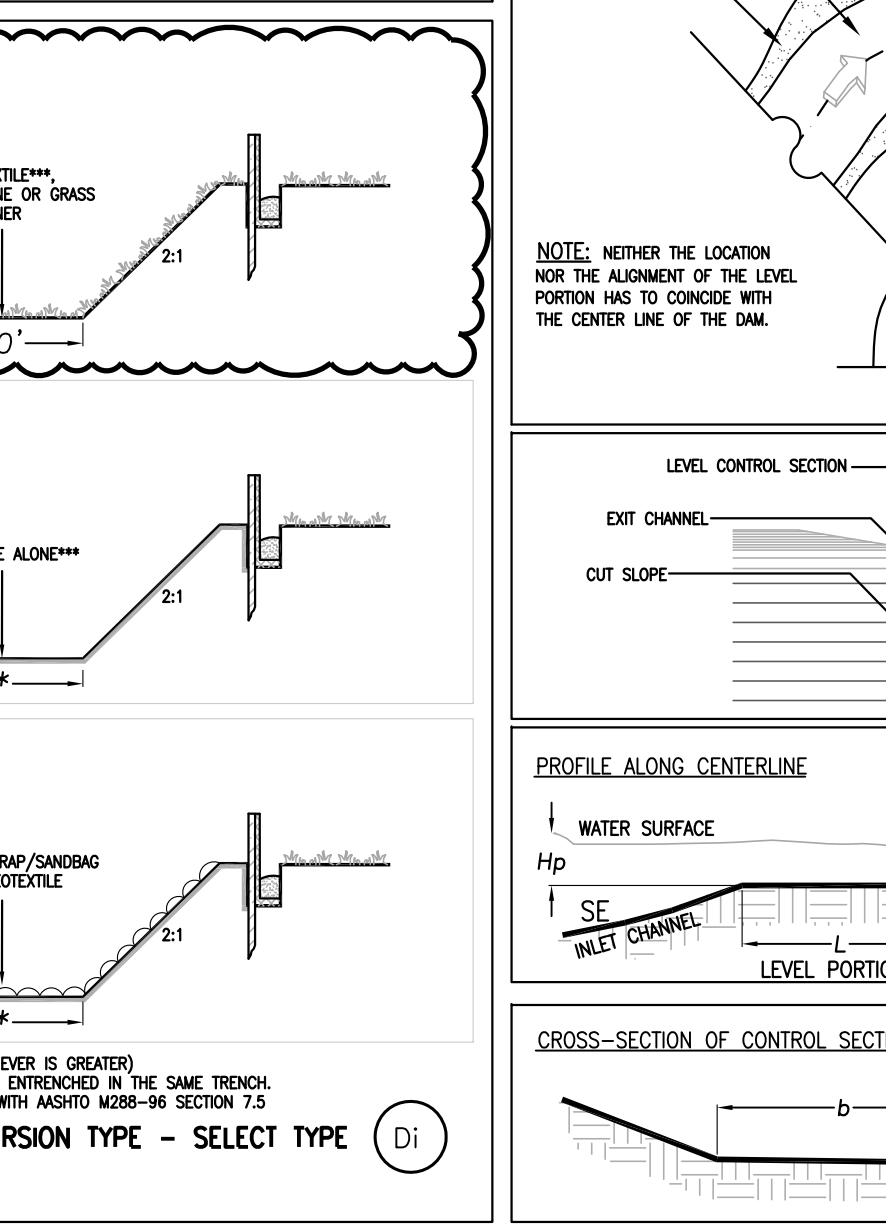
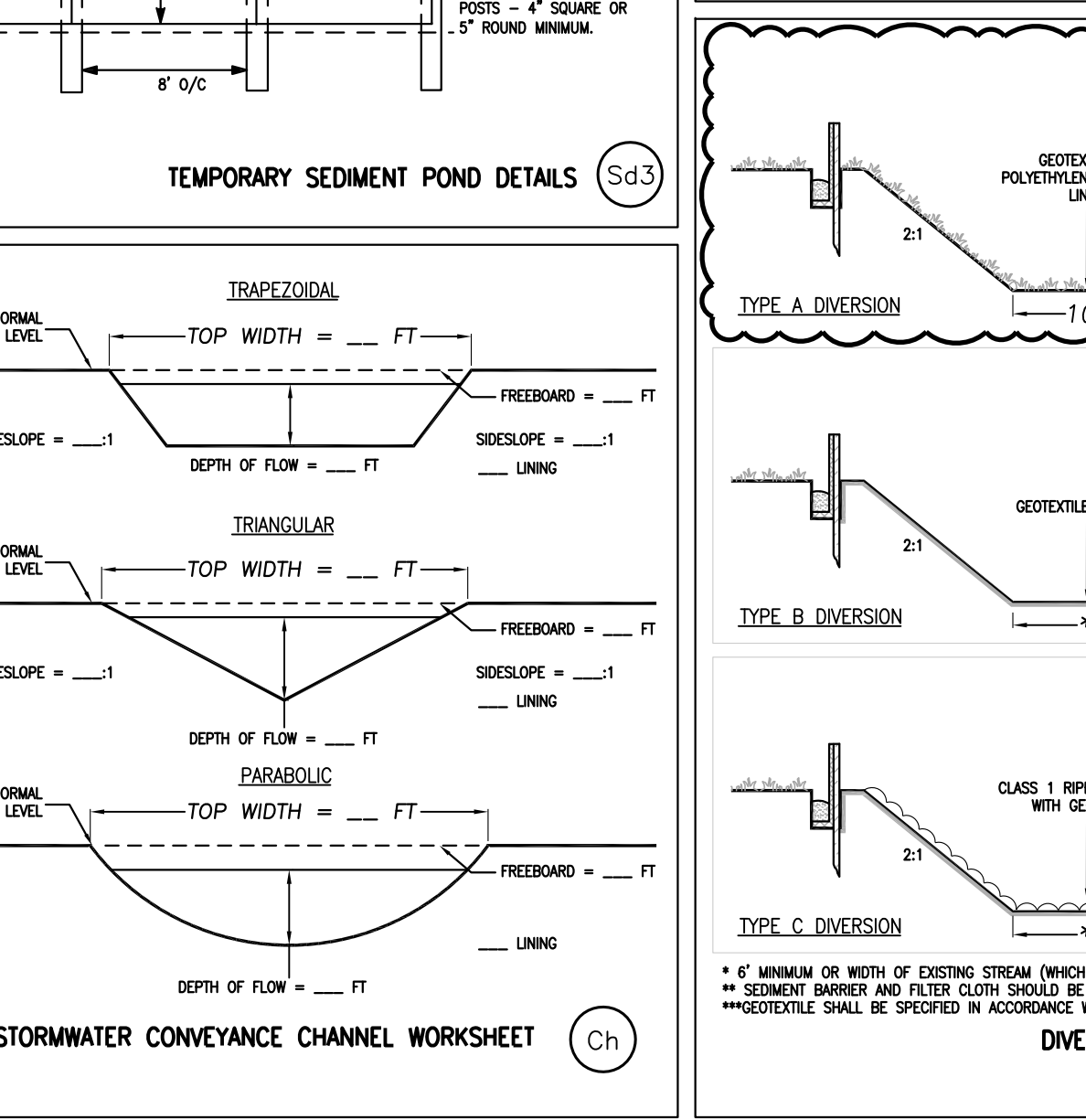
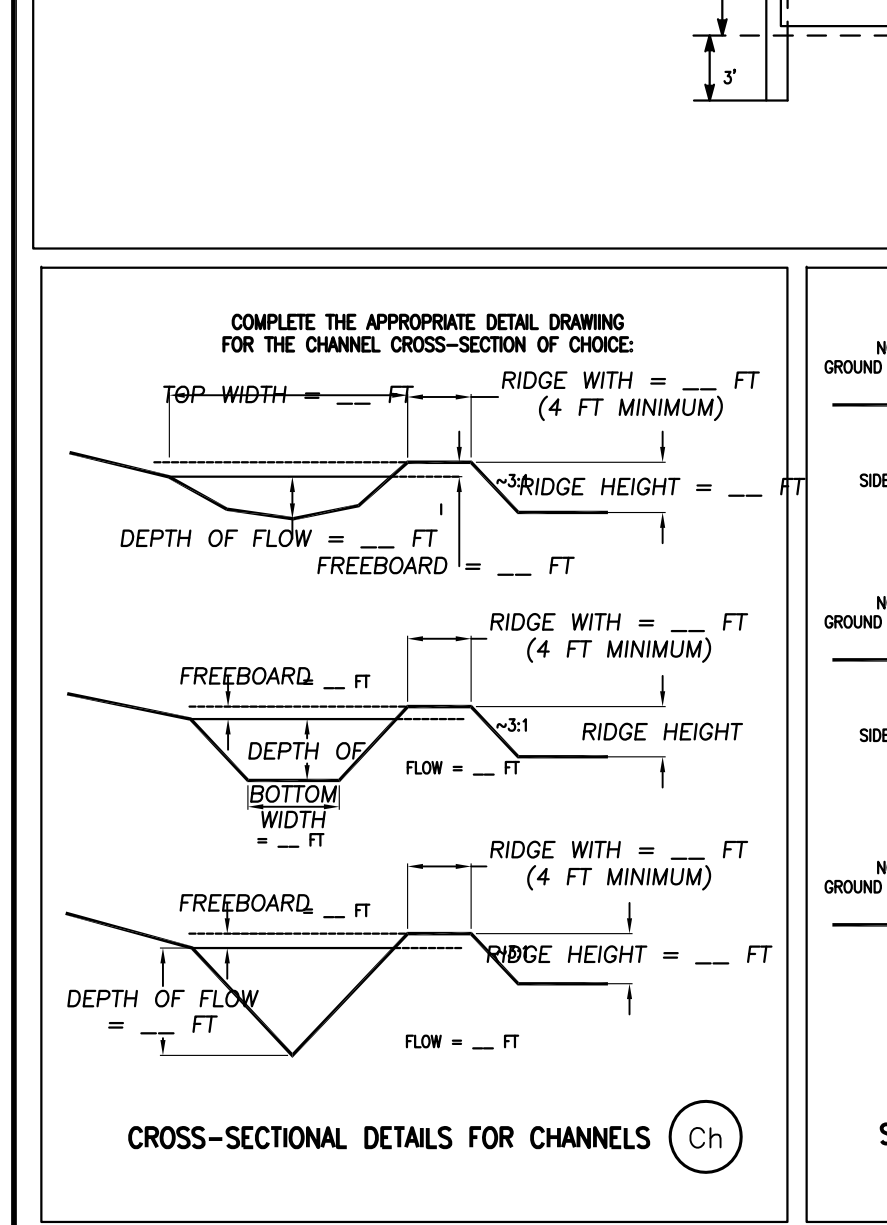
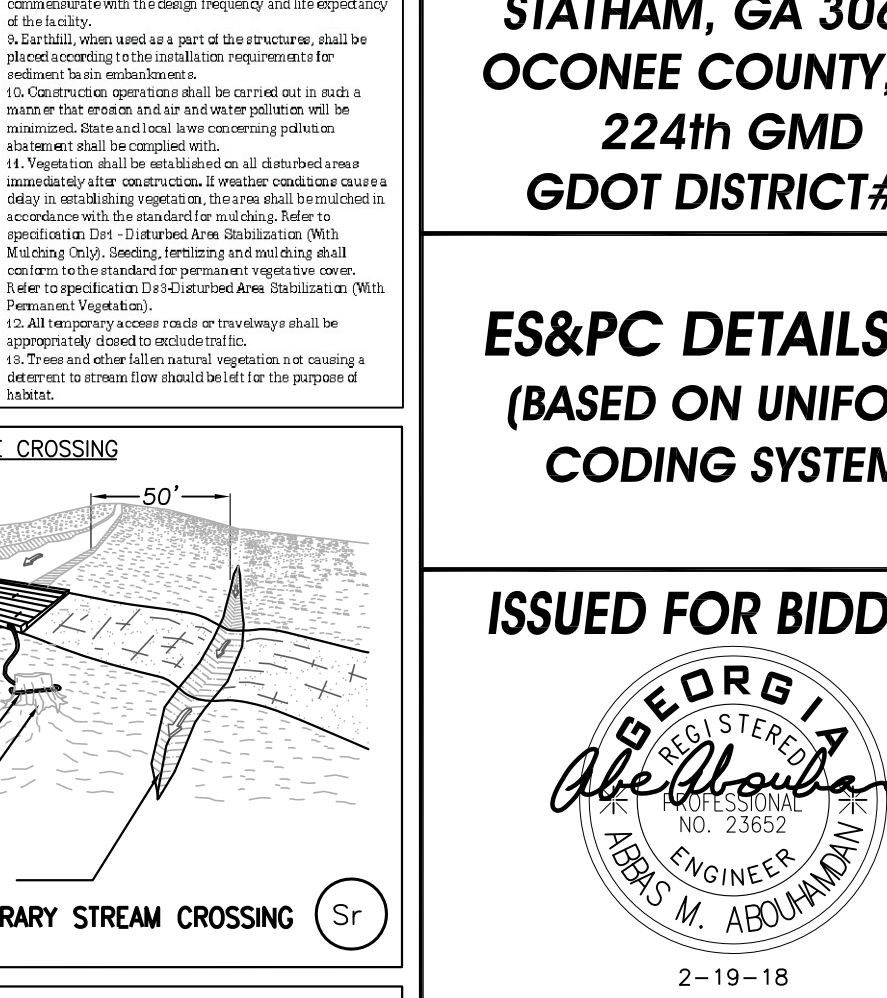
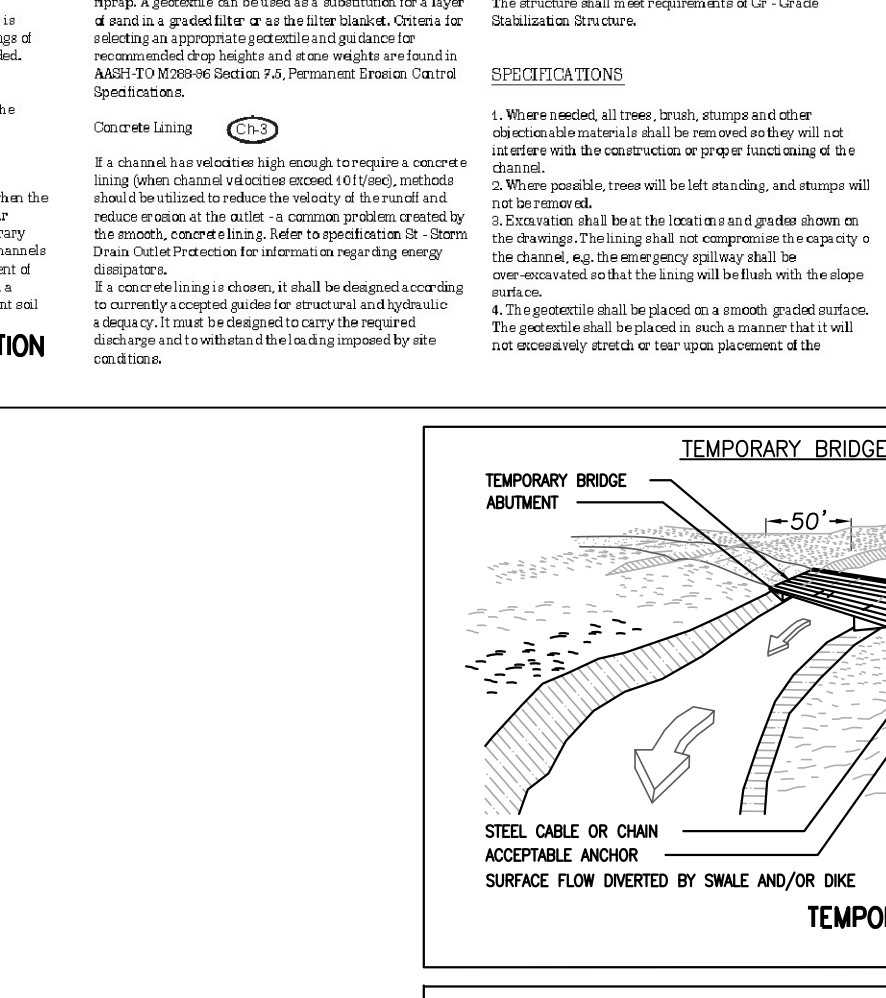
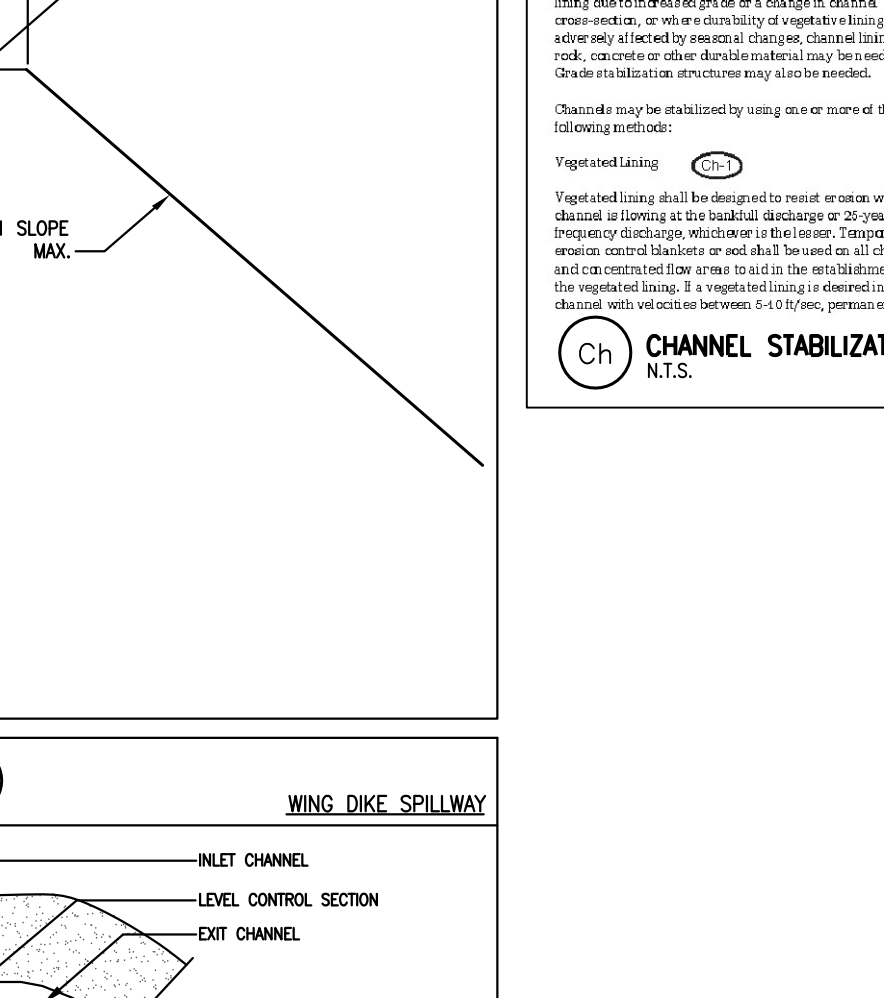
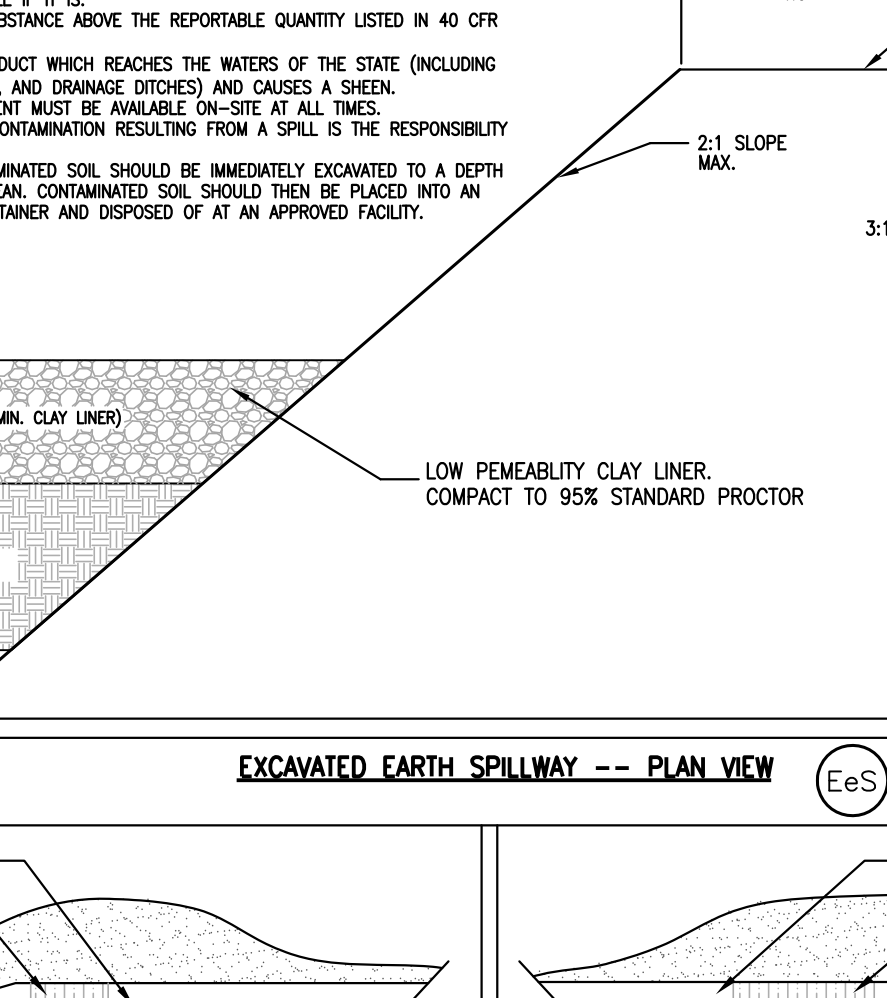
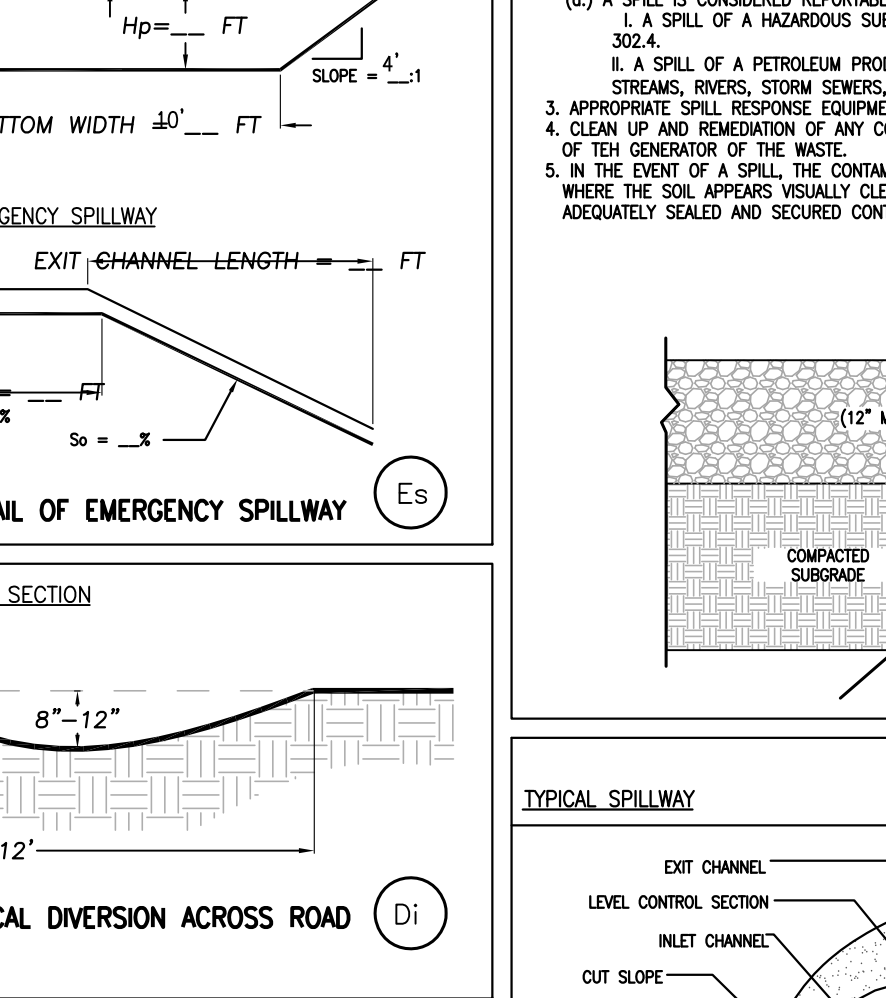
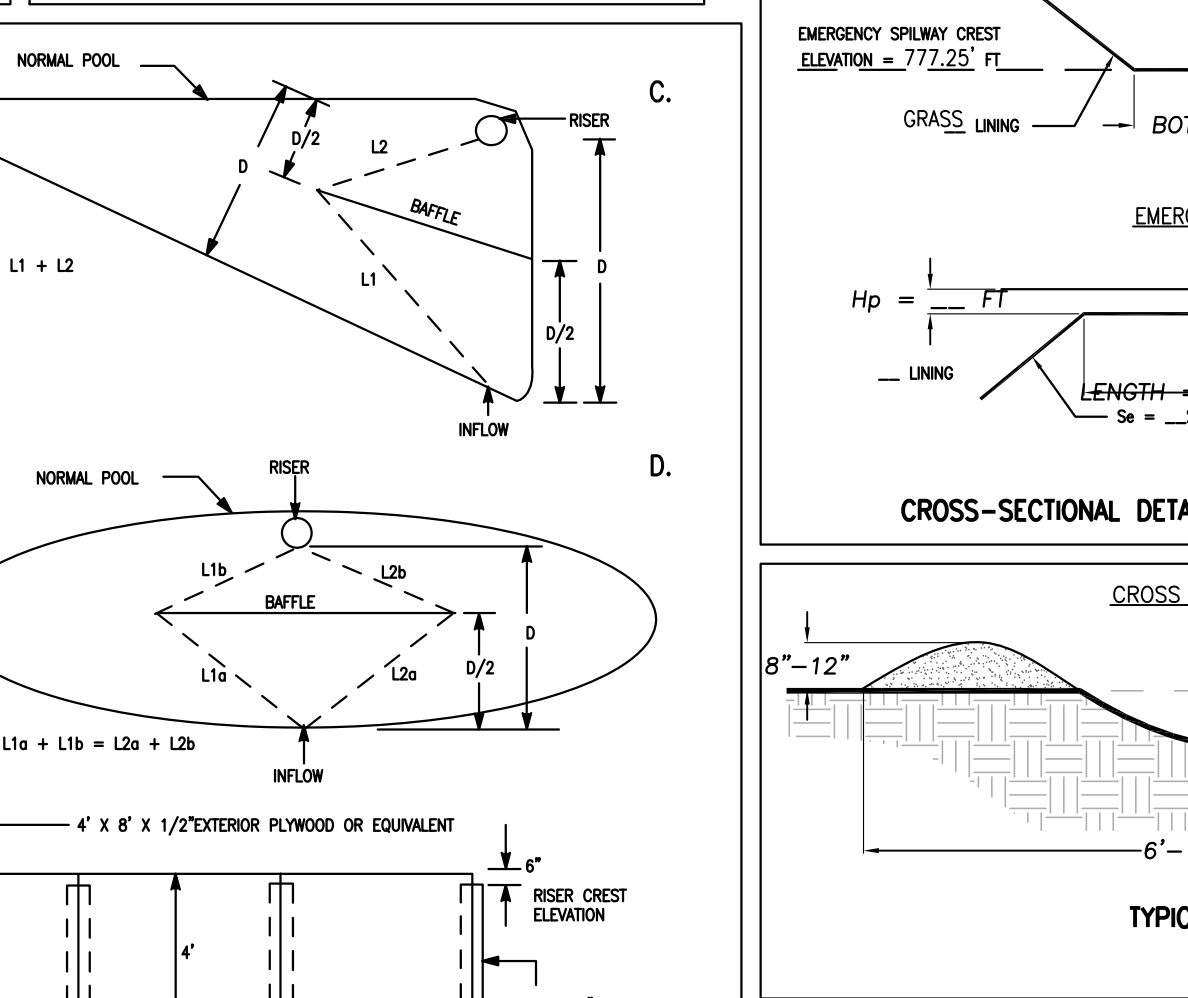
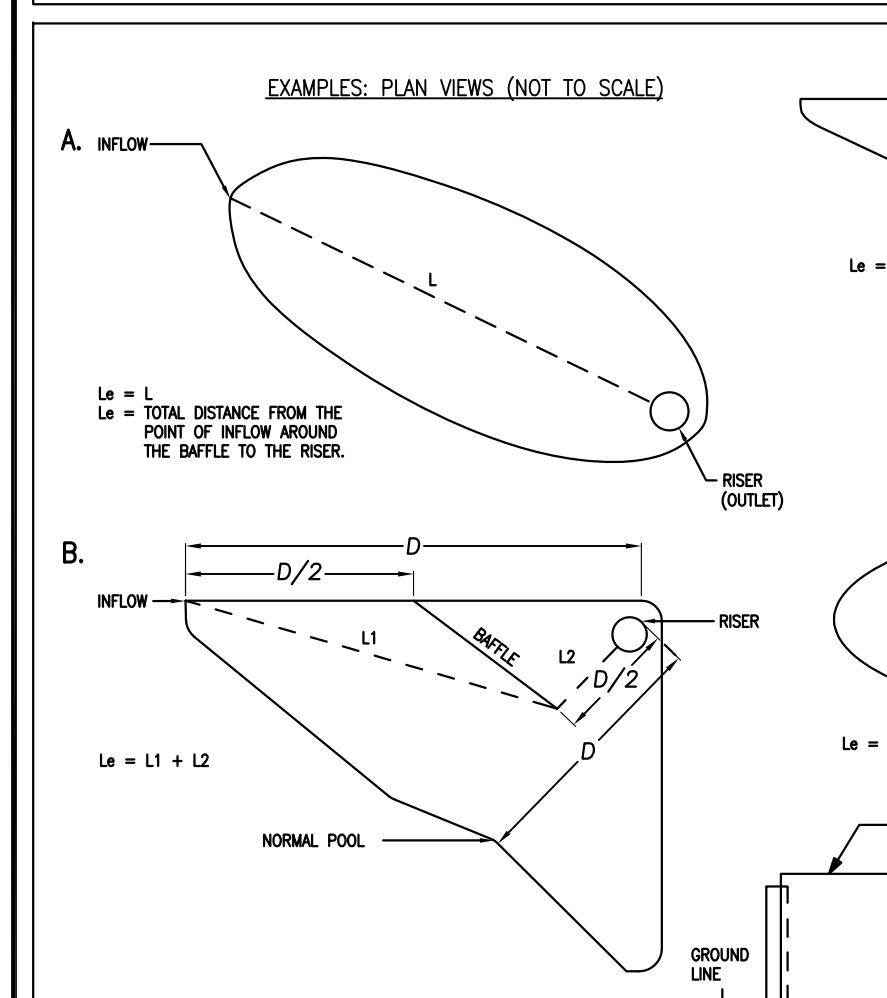
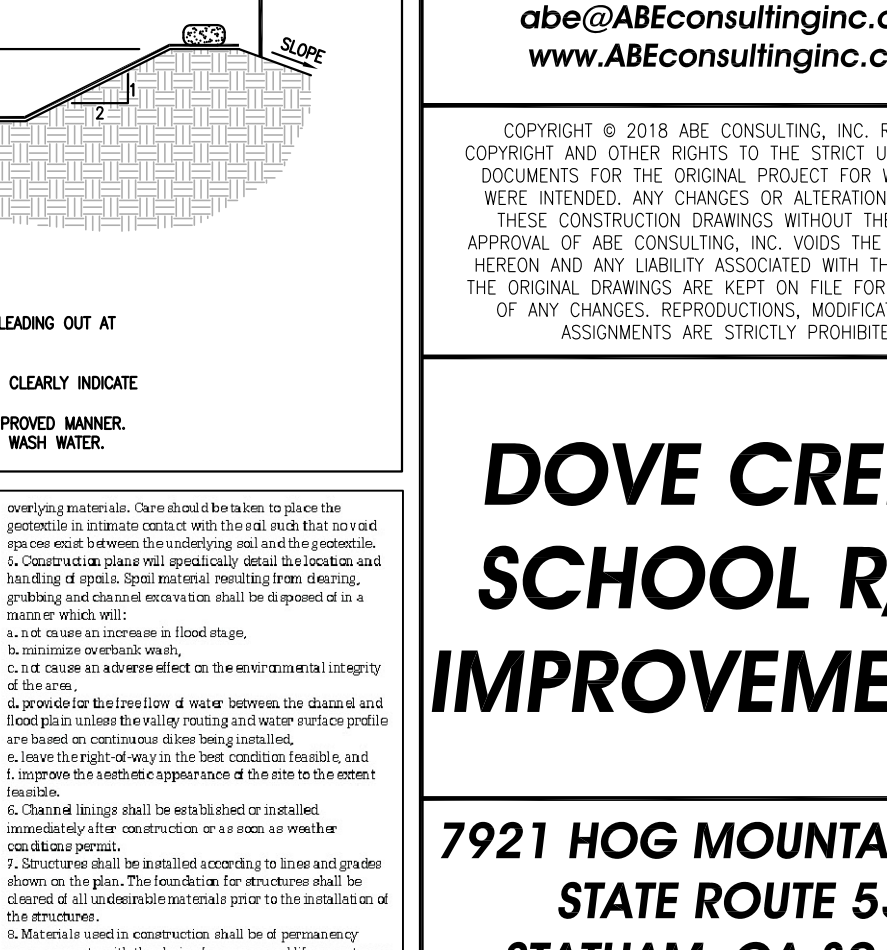
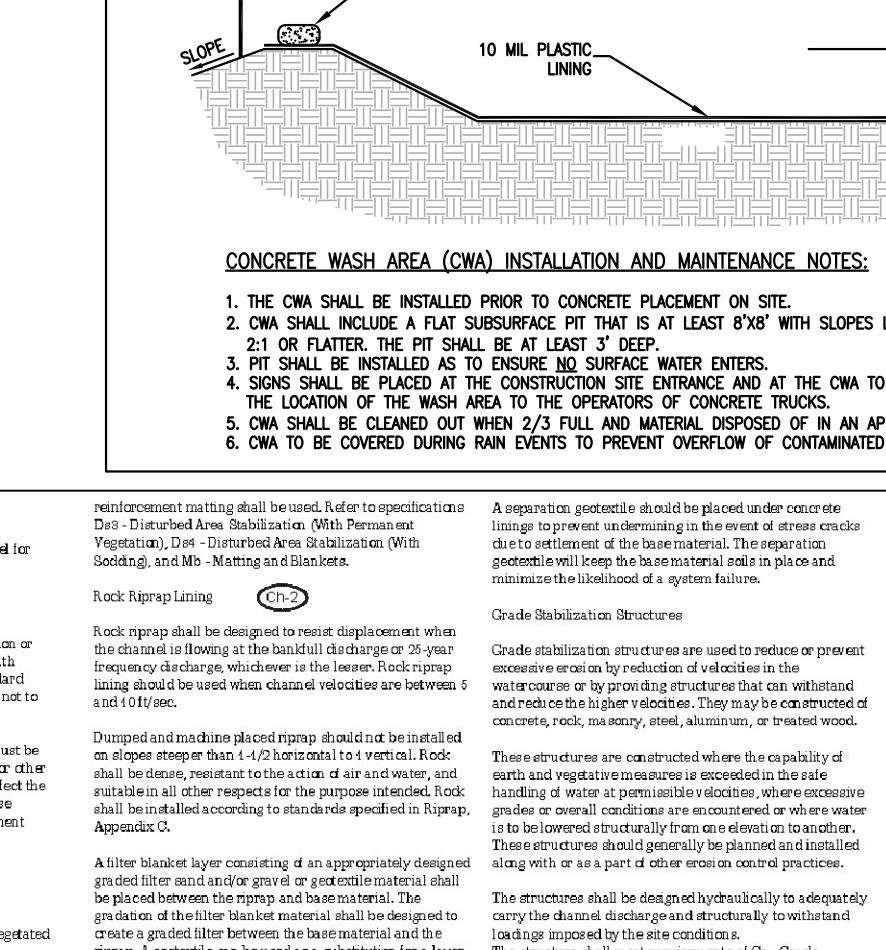
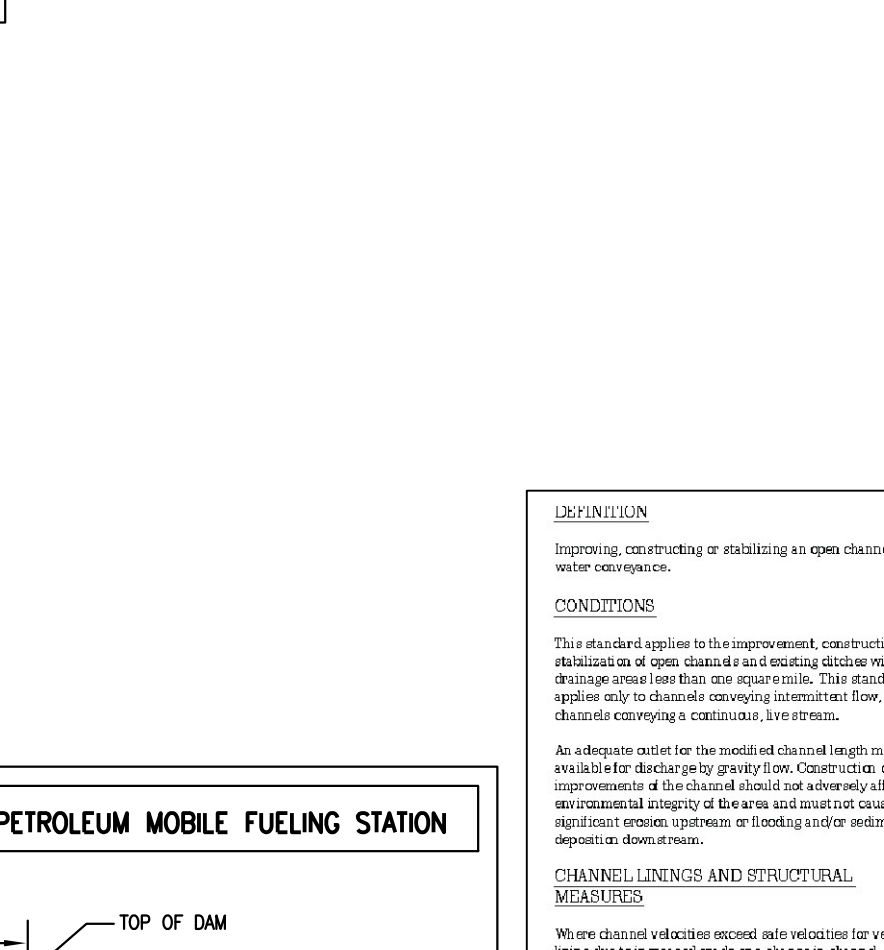
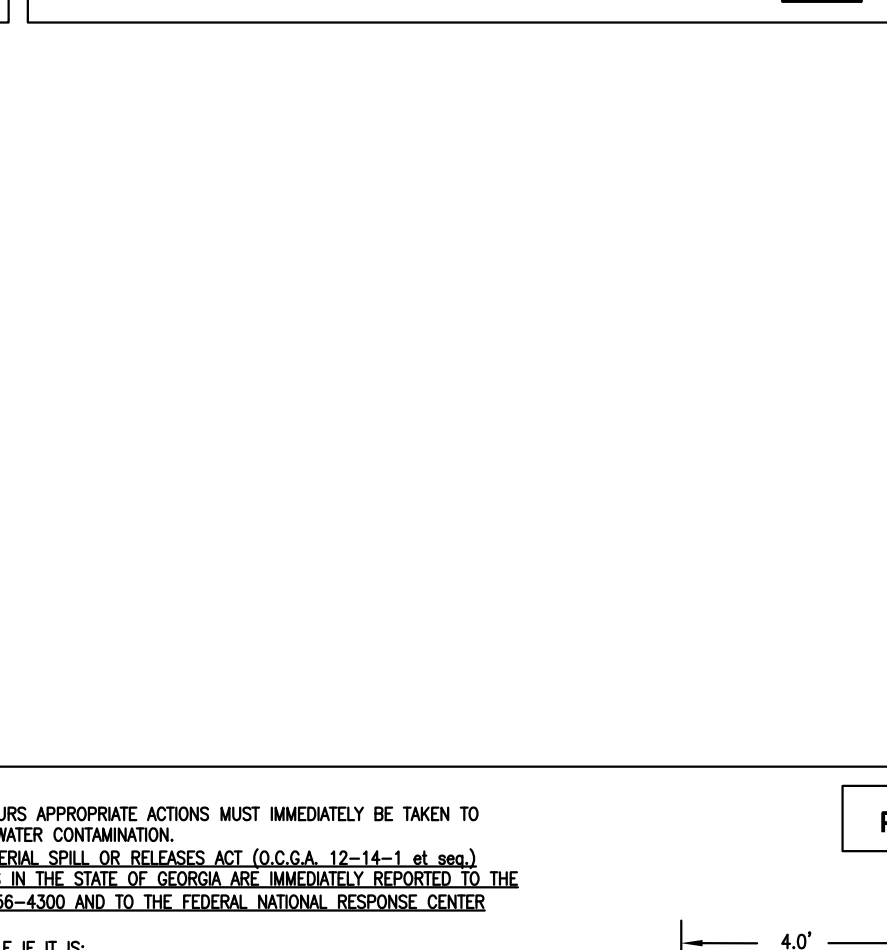
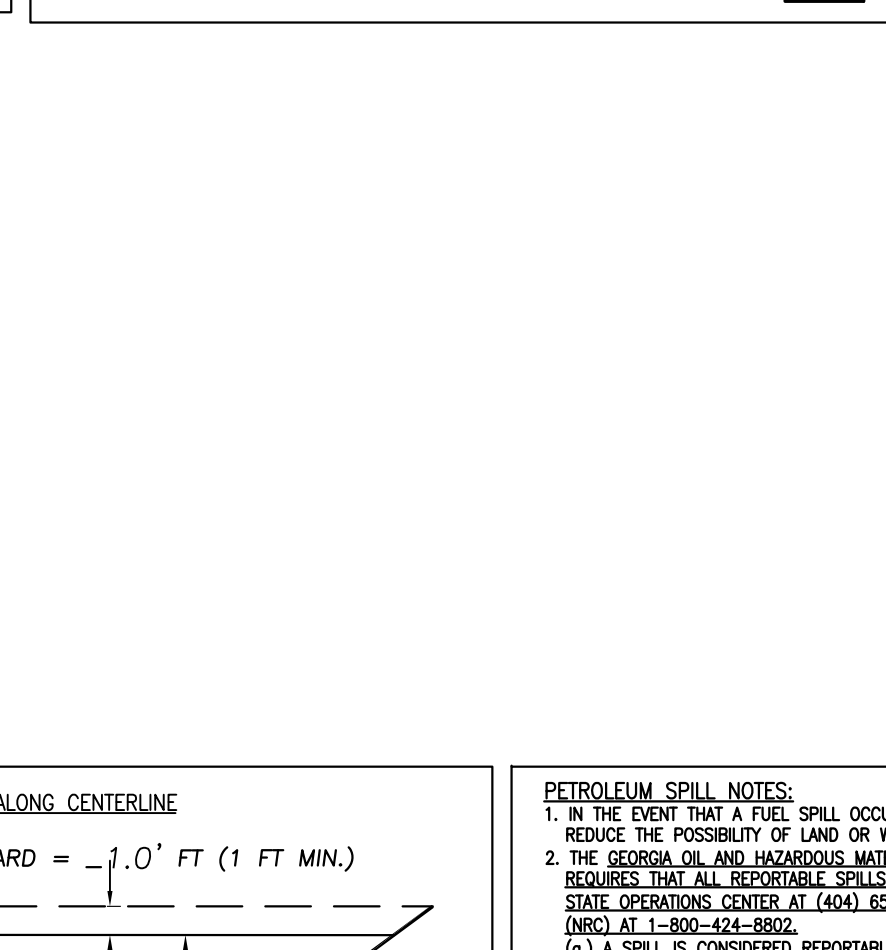
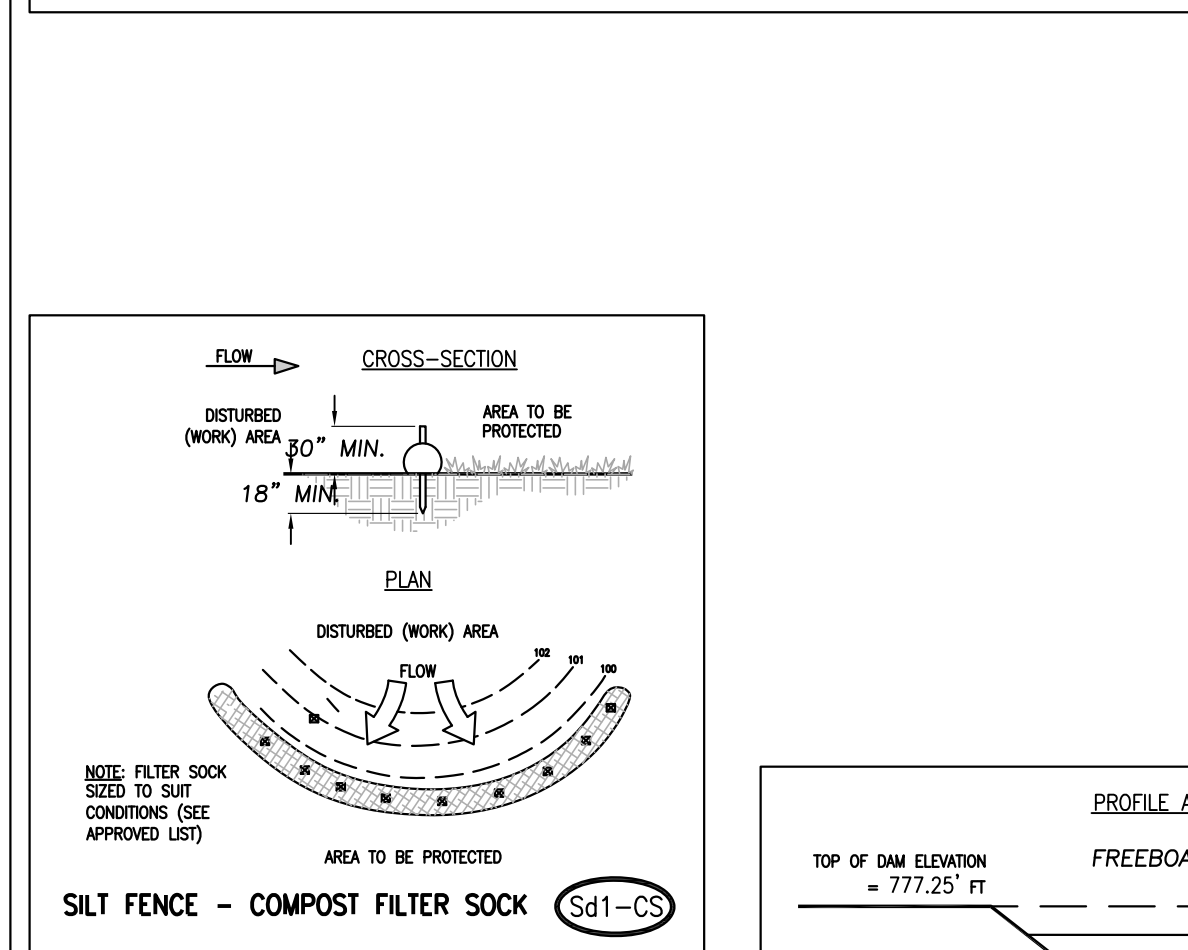
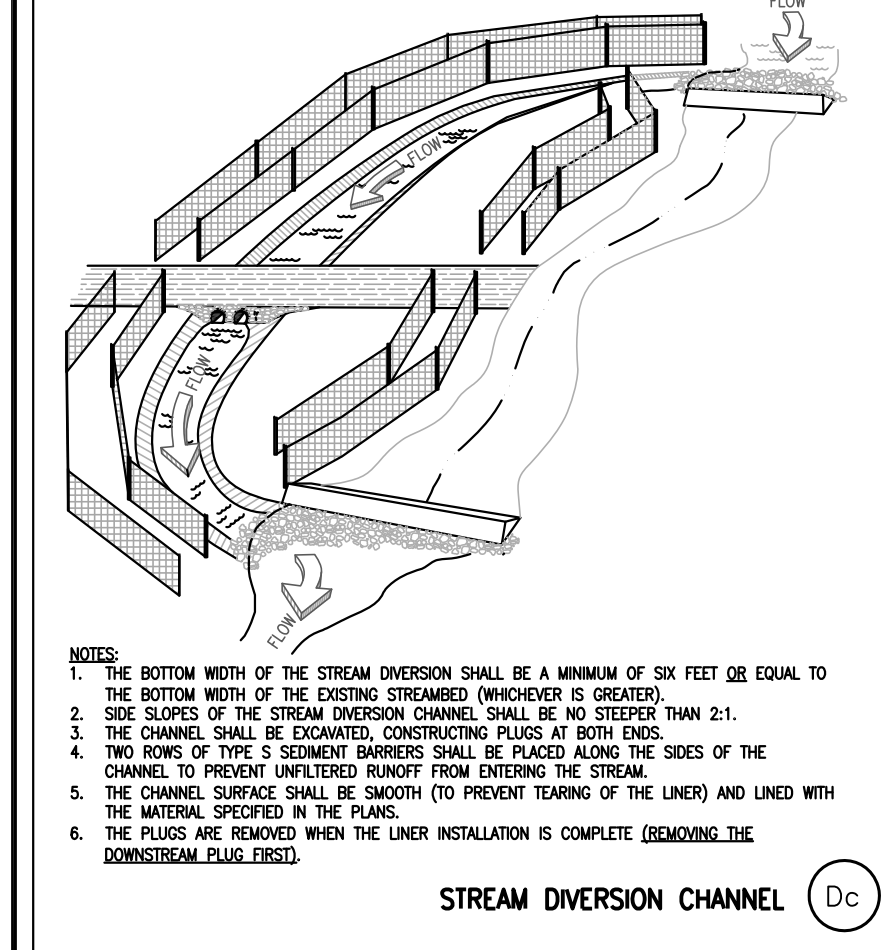
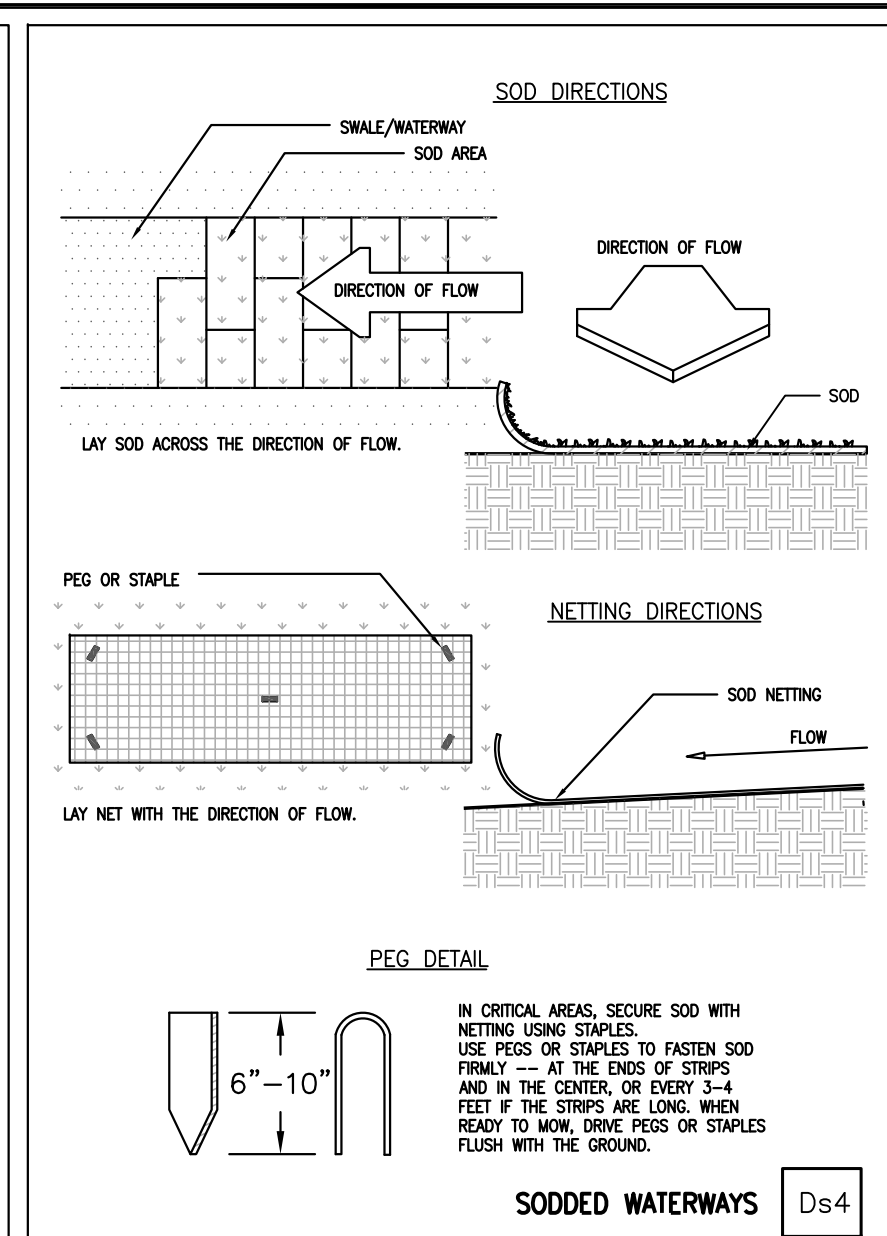
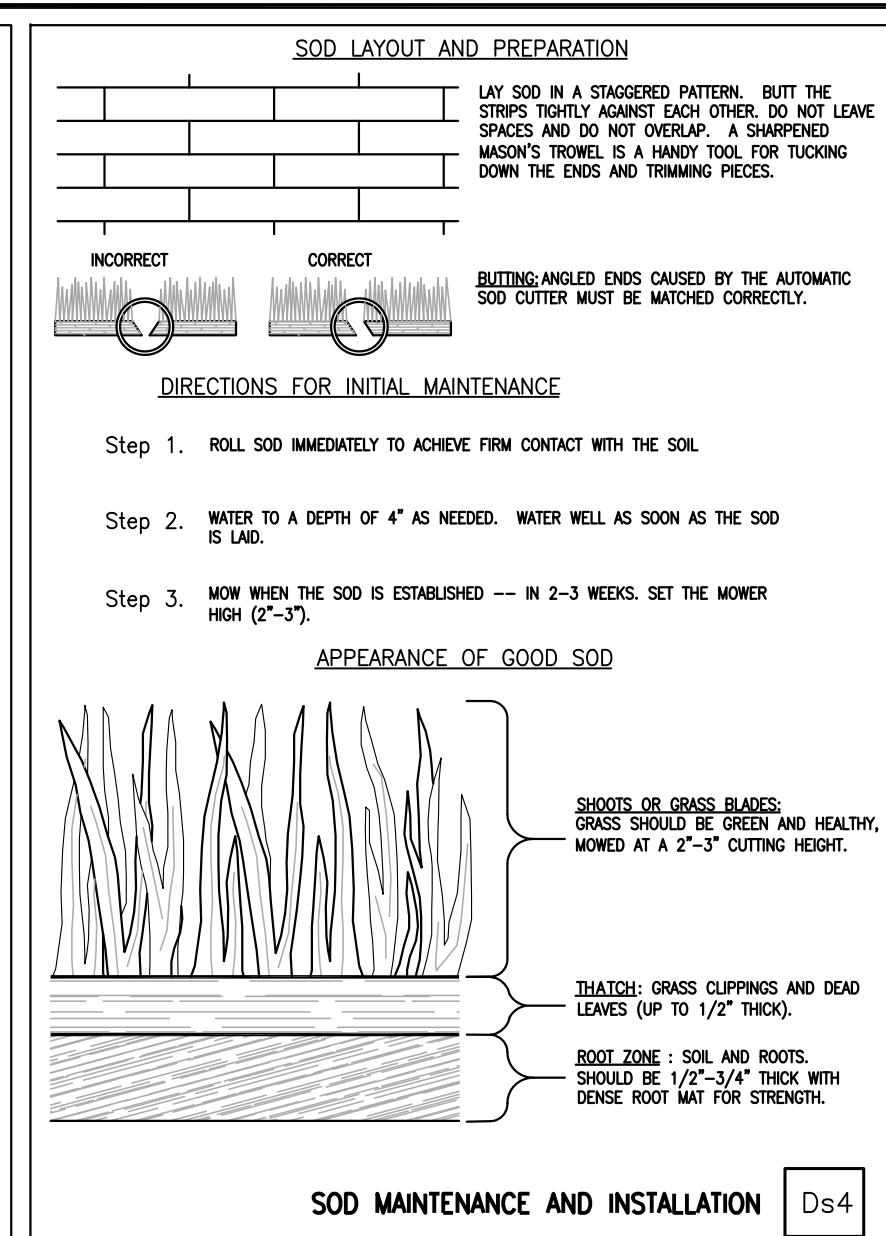
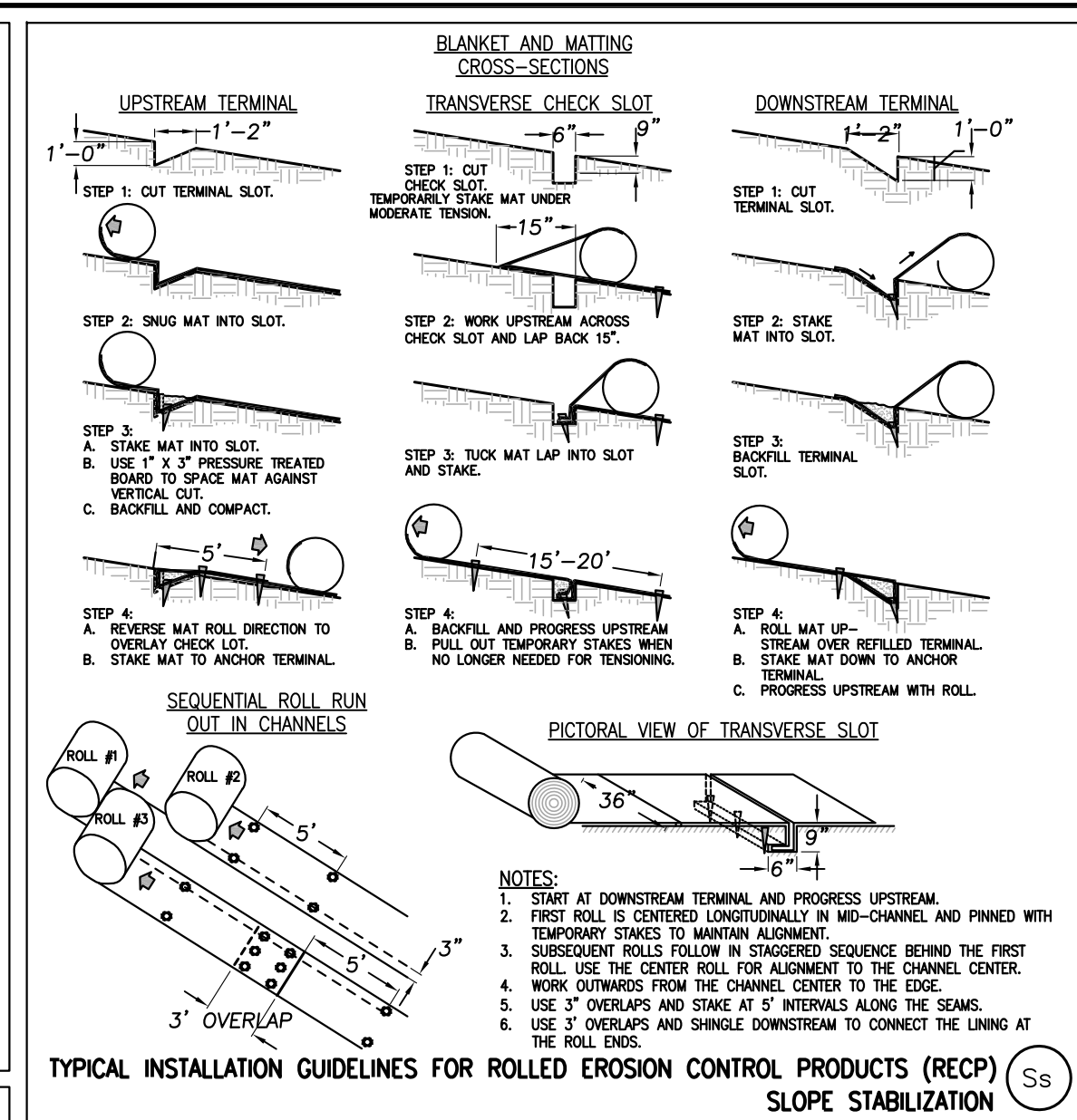
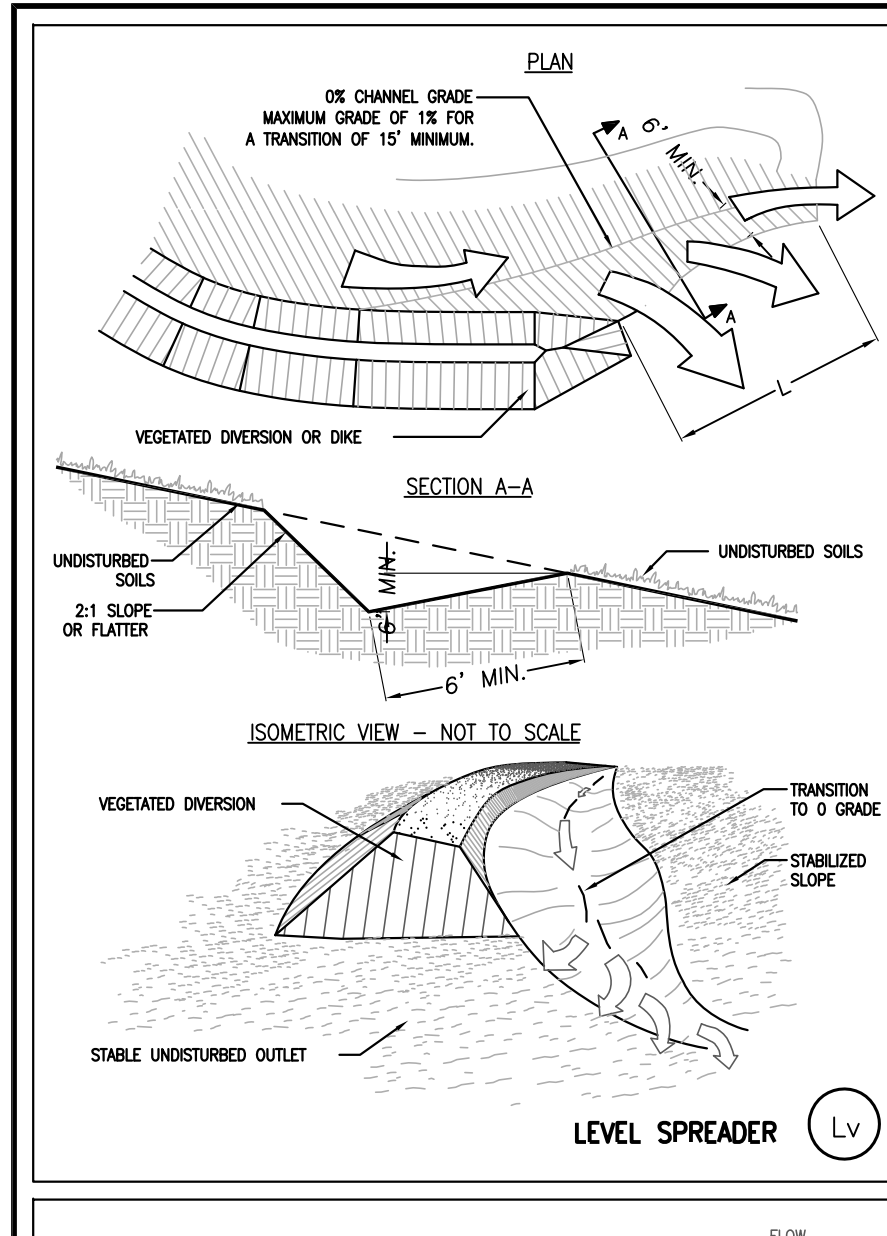


2-19-18

REVISIONS	DATE

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





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DOVE CREEK SCHOOL R/W IMPROVEMENTS

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 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT # 1

ES&PC DETAILS "B" (BASED ON UNIFORM CODING SYSTEM)

ISSUED FOR BIDDING

2-19-18

REVISIONS	DATE

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

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

SHEET #
 42
 62

SOIL EROSION AND SEDIMENT CONTROL NOTES

INFRASTRUCTURE PROJECT- GENERAL PERMIT NO. GAR 100002

1. (SEE COVER SHEET FOR COMPLETED CHECKLIST) THE FOLLOWING ITEMS ARE BASED ON THE LATEST EFFECTIVE CHECKLIST.)

2. THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL NUMBER #000001490

SIGNATURE: Abe Aboukanda DATE SIGNED: 2-12-18

24-HOUR CONTACT: MR. EMIL BESHARA P.E., ENGINEERING DIRECTOR
24-HOUR PHONE: CELL# 706-540-1725

PRIMARY PERMITTEE CONTACT: MR. EMIL BESHARA P.E., ENGINEERING DIRECTOR
ADDRESS: 1291 GREENSBORO HIGHWAY WATKINSVILLE, GA 30677

TOTAL DISTURBED ACREAGE: 13.0ACS

GPS LOCATION AT CONSTRUCTION EXIT/ENTRANCE: SHOWN ON PHASE I ES&PC PLAN

INITIAL DATE OF PLANS: SHOWN ON TITLE BLOCK

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES WIDENING AN EXISTING ROADWAY (S.R. 53), REALIGNMENT OF EXISTING OSBORNE RD, AS WELL AS RECONSTRUCTING VAN OSBORNE ROAD. ALL ROADWAYS ARE LINEAR INFRASTRUCTURE PROJECTS...

VICINITY MAP: SHOWN ON COVER SHEET AS WELL AS ADDITIONAL PLANS. (I.E. OVERALL SITE PLAN)

COVER SHEET & PHASE I ES&PC PLAN

I, ABE ABOUKANDA, 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 Aboukanda DATE SIGNED: 2-12-18

STATEMENT ON COVER SHEET (SEE NPDES CERTIFICATION STATEMENT)

STATEMENT ON COVER SHEET (SEE NPDES CERTIFICATION STATEMENT)

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

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.

BUFFER ENCROACHMENT FOR ROADWAY DRAINAGE STRUCTURE AND UTILITIES. BUFFER VARIANCE IS NOT REQUIRED IN ACCORDANCE WITH PART IV.A.(i).

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

"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 SEDIMENT 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."

"THIS SITE CONSTRUCTION ACTIVITY DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM OR WITHIN 1 LINEAR MILE OF AN IMPAIRED STREAM."

TMDL IMPLEMENTATION PLAN: N/A

24-SEE CONCRETE WASH AREA BMP.

25-SEE PETROLEUM SPILL BMP & NOTES

"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."

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

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"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 SEDIMENT 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."

"THIS SITE CONSTRUCTION ACTIVITY DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM OR WITHIN 1 LINEAR MILE OF AN IMPAIRED STREAM."

"WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."

29. - 32. Inspections.

a. Permittee requirements.

(1) Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for extension of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2) Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday, and non-working Federal Holiday until a Notice of Termination is submitted. The amount of rainfall may be suspended if all areas of the site have undergone final stabilization or until such a crop of annual vegetation and a seeding of target perennials appropriate to the region.

(3) Certified personnel (provided by the primary permittee) shall inspect the following at least once every location (14) calendar days and within 24 hours of the last storm that is 0.5 inches rainfall or greater (includes each storm once after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal Holiday). The inspector shall be accompanied by the contractor for the area of the work being inspected, whichever occurs first: (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for equipment, materials, or other construction activities; (c) structural control measures; (d) erosion and sediment control measures installed in the Plan; applicable to the primary permittee site that is proposed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected for sediment or erosion control measures are effective in preventing erodible impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4) Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of the permit (i.e., until a Notice of Termination is submitted by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants originating from the treatment and receiving water(s). Erosion and sediment control measures installed in the Plan shall be observed to ensure that they are operating as intended. Where discharge locations or points are accessible, they shall be inspected for sediment or erosion control measures are effective in preventing erodible impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(5) Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes must be as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6) A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has not undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of cost management practices that have not been properly installed or implemented as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices established in the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outlets in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the infrastructure construction; (a) the location of perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other pertinent streams and other water bodies located during mandatory field verification, into which the storm water discharge from the Plan; and (b) a plan shall identify and ensure the uniqueness of representative stormwater outlet. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the storm water discharge from the Plan shall be identified on the USGS topographic map and the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map.

(2) The written narrative site specific analytical methods used to collect and analyze the samples and the quality control practices used during the sampling. The narrative must include precise sampling methodology for each sampling location.

(3) When the permittee has determined that some or all outlets will be sampled, a rationale must be included on the Plan for the NTU limits selected from Appendix B. This rationale must include the size of the construction project, the location of the storm water discharge area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4) Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. Sample Type All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methods and procedures, when available, for the analytical techniques or methods used.

c. All written correspondence regarding this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate Office of the EPD according to the schedule in Part IV.D.4. of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided for each event correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

d. Manual, automatic or rising stage sampling may be used. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required unless sampling is analyzed directly with a properly calibrated turbidimeter. Sampling or not sampling to be cooled.

(5) Sampling and analysis of the receiving water(s) or outlets below the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. Sampling Points.

(1) For construction activities the primary permittee must sample 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, all outlets, spill catchments and other water bodies, or a combination thereof. However, provided for in accordance with Part IV.D.6.c.(2), of this permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outlets, or a combination thereof. Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(a) The upstream sampling for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farther upstream at the site) but downstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b) The downstream sampling for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farther downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c) Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outlet channel(s).

(d) Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

(e) The sampling container should be held so that the opening faces upstream.

(f) The samples should be kept free from floating debris.

(g) Permittees do not have to sample shelves that flow into undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaired areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of grasses, or other permanent landscaping according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (including a crop of annual vegetation and a seeding of target perennials appropriate for the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land to be agricultural or silvicultural use.

(h) All sampling pursuant to this permit must be done in such a way including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect conditions and compliance with the permit. Sampling shall be in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

(2) For infrastructure construction projects, the permittee is not required to sample a perennial or intermittent stream or other water bodies (or the associated outlet, if applicable) if the design professional preparing the Plan determines that an increase in turbidity in the receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water.

(3) For infrastructure construction projects, when the permittee determines that some receiving water(s) will not be sampled due to representative sampling, the design professional making this determination and preparing the Plan must include and sign the following certification in the Plan:

1. 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 that the factors required in the current NPDES Permit No. GAR 100002, that the monitoring of such specific identified perennial or intermittent stream will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

(4) For infrastructure construction projects, if at any time during the life of the project a selected receiving water no longer represents another receiving water, then the permittee shall submit the latter receiving water until selection of an alternative representative receiving water.

(5) For infrastructure construction projects, as if any time during the life of the project a receiving water is determined not to be representative as certified in the Plan, the permittee shall submit that receiving water until a Notice of Termination is submitted or until the applicable phase is stabilized in accordance with this permit.

(6) For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.(1)(i).

d. Sampling Frequency.

(1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

(2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3) Sampling by the permittee shall occur for the following qualifying events:

(a) For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit, either 80 days after the first sampling event or after all major grading operations have been completed, but prior to completion of mass grading operations; and

(b) In addition to (a), above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit, either 80 days after the first sampling event or after all major grading operations have been completed, but prior to completion of mass grading operations; and

(c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained in accordance with Part IV.D.4.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has not undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of cost management practices that have not been properly installed or implemented as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices established in the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

(d) Where sampling pursuant to (c), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

Non-storm water discharges. Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the uniqueness of representative stormwater outlet for the non-storm water component(s) of the discharge.

Reporting.

(1) The applicable permittee are required to submit the sampling results to the EPD at the address shown in Part III.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which sampling is taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results in a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports required in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

a. The rainfall amount, date, exact place and time of sampling or measurements;

b. The name(s) of the certified personnel who performed the sampling and measurements;

c. The date(s) analyses were performed;

d. The time(s) analyses were initiated;

e. The name(s) of the certified personnel who performed the analyses;

f. The methods and written procedures, when available, for the analytical techniques or methods used;

g. The results of such analyses, including the bench tests, instruments, computers, computer disks or tapes, etc. used to determine these results;

h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU" and 1. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence regarding this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate Office of the EPD according to the schedule in Part IV.D.4. of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided for each event correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

Retention of Records

(1) The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;

c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5.

d. A copy of all Notices of Intent submitted to EPD;

e. A copy of all sampling information, results, and reports required by this permit;

f. A copy of all inspection reports generated under Part IV.D.4. of this permit;

g. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

h. Daily rainfall information collected in accordance with Part IV.D.4.(2), of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with the following minimum guidelines:

(a) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

(b) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

(c) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

(d) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

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(i) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

(j) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

(k) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

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(r) The permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

Applying and Anchoring Mulch

1. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

2. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

3. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

4. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

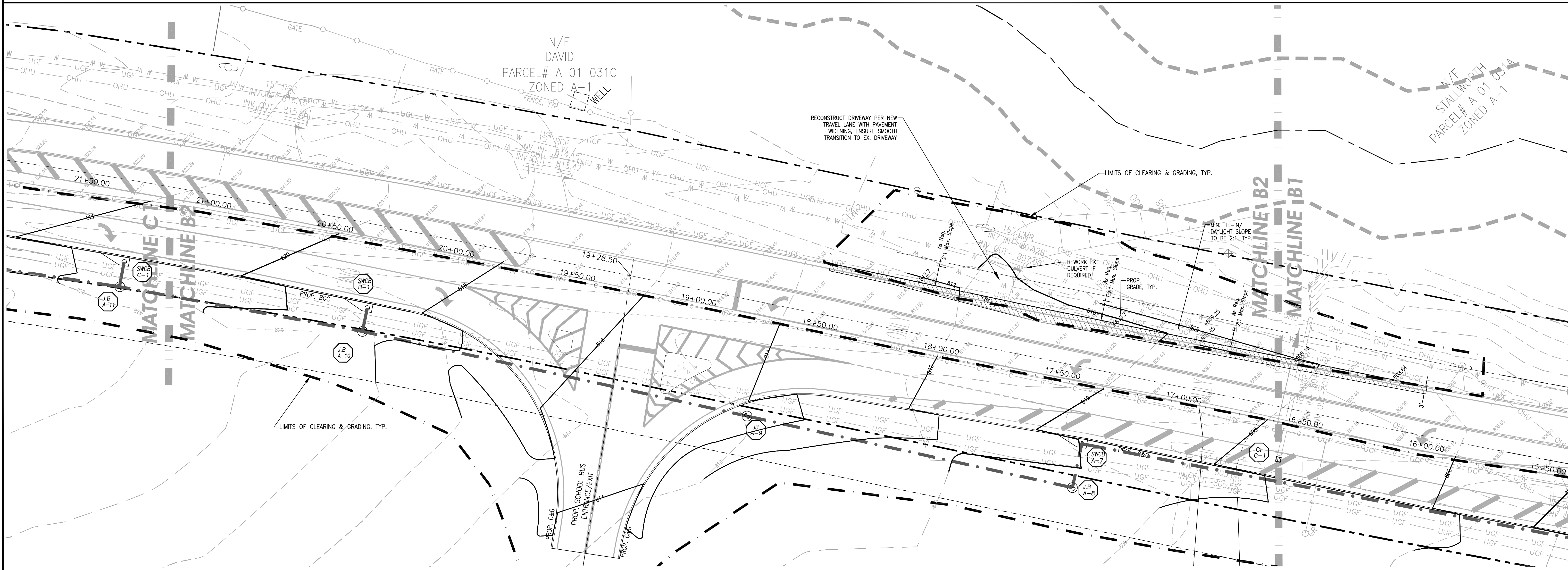
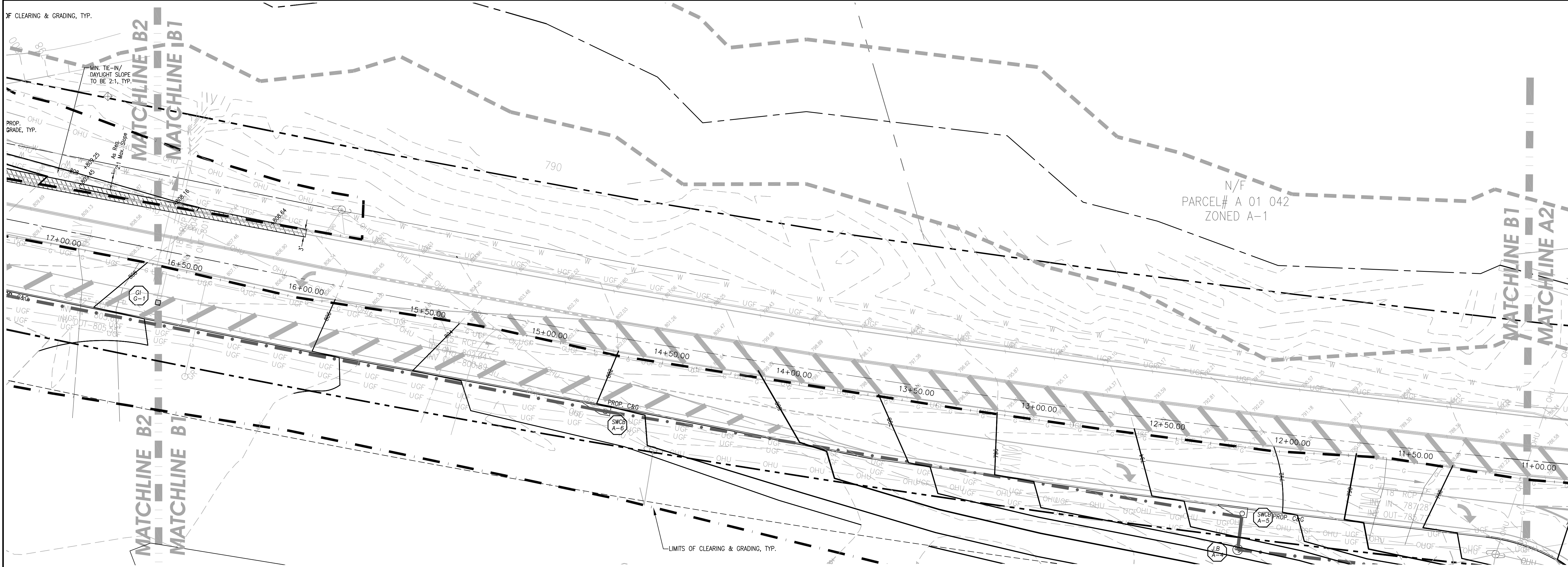
5. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

6. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

7. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

8. Apply straw or hay mulch uniformly by hand or mechanically. Anchor or stabilize mulch and level it to the ground or to the subgrade. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer. The mulch shall be applied in a single layer or in a double layer.

OF CLEARING & GRADING, TYP.



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
 WATKINSVILLE, GA 30677
 706-613-8900
 706-425-9631 (FAX)
 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

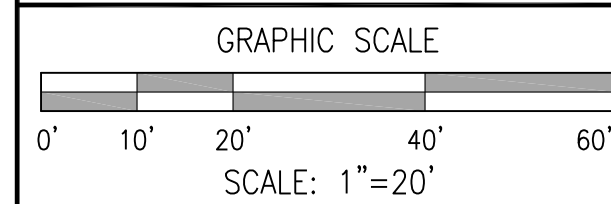
GRADING PLAN B

ISSUED FOR BIDDING

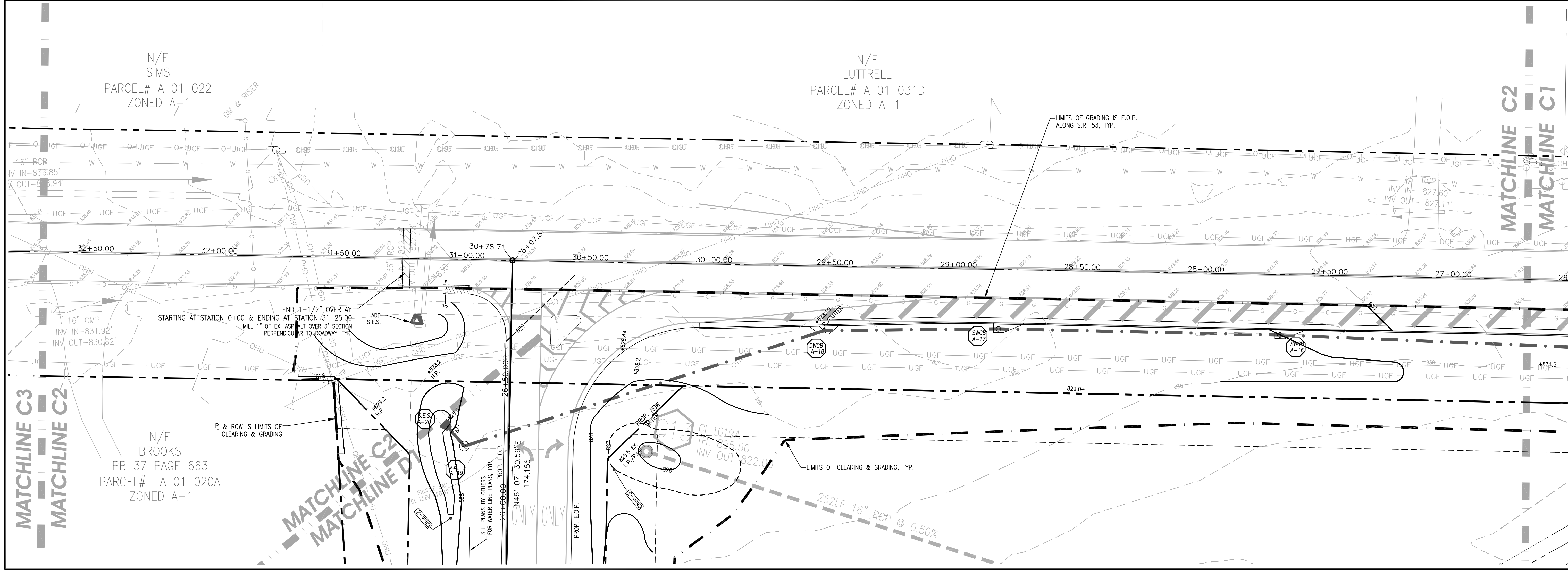
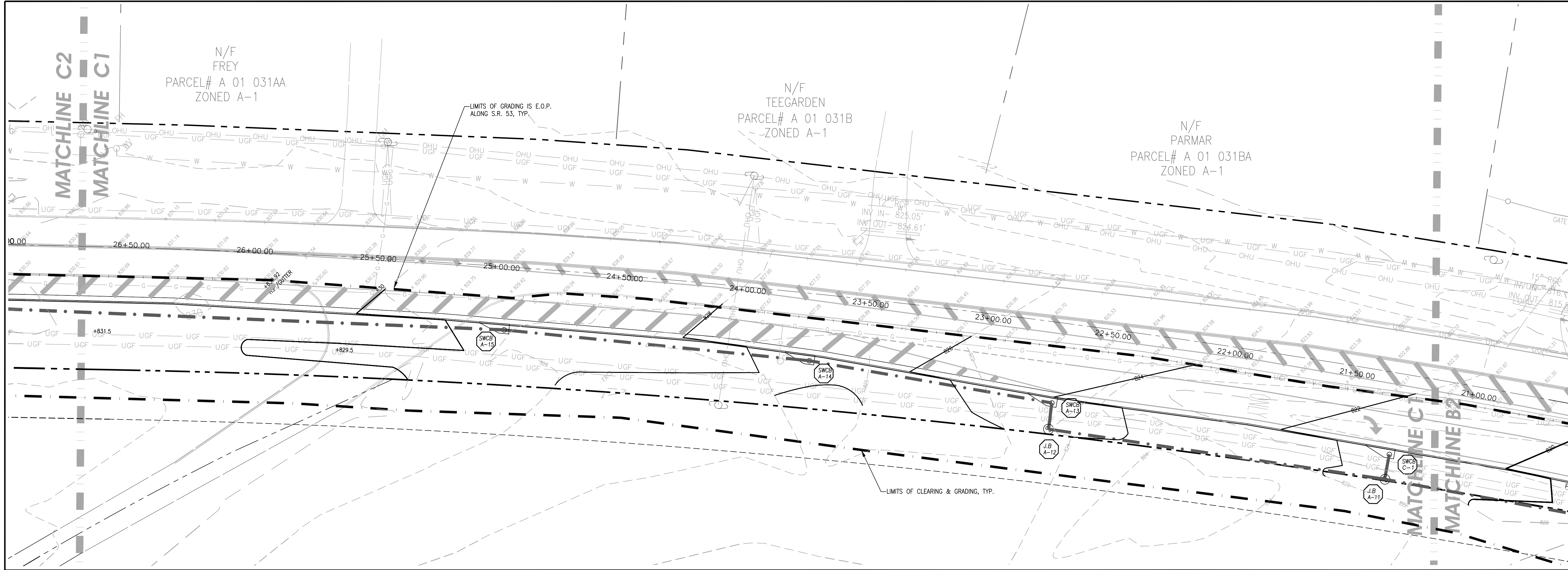


REVISIONS	DATE

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



SHEET #
 45
 62



COMPREHENSIVE ENGINEERING SERVICES
 CIVIL ENGINEERING
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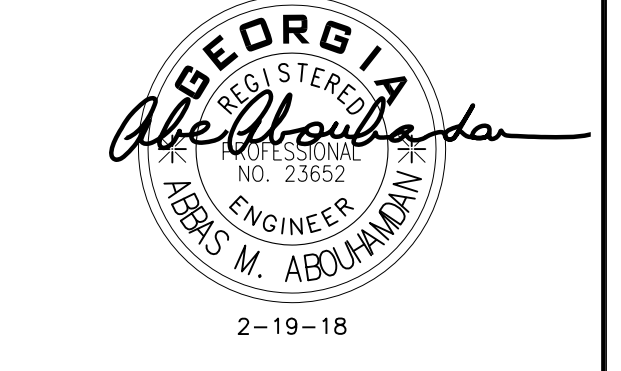
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DOVE CREEK SCHOOL R/W IMPROVEMENTS

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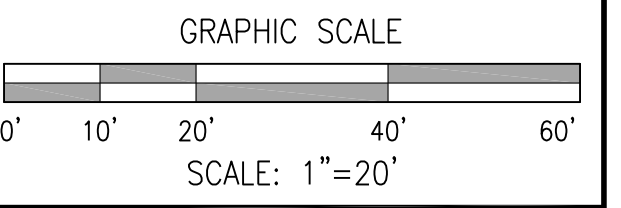
GRADING PLAN C

ISSUED FOR BIDDING



REVISIONS	DATE

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



SHEET #
 46
 62



COMPREHENSIVE ENGINEERING SERVICES
 CIVIL ENGINEERING
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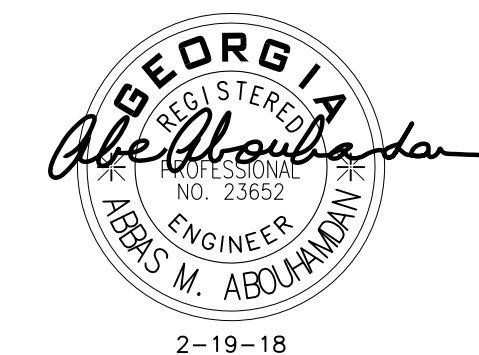
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7921 HOG MOUNTAIN RD.
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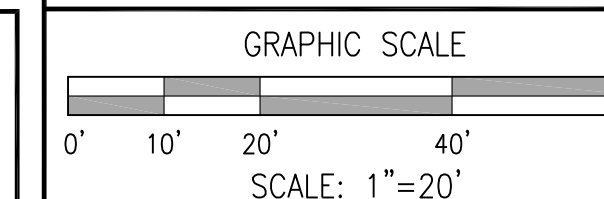
GRADING PLAN C3

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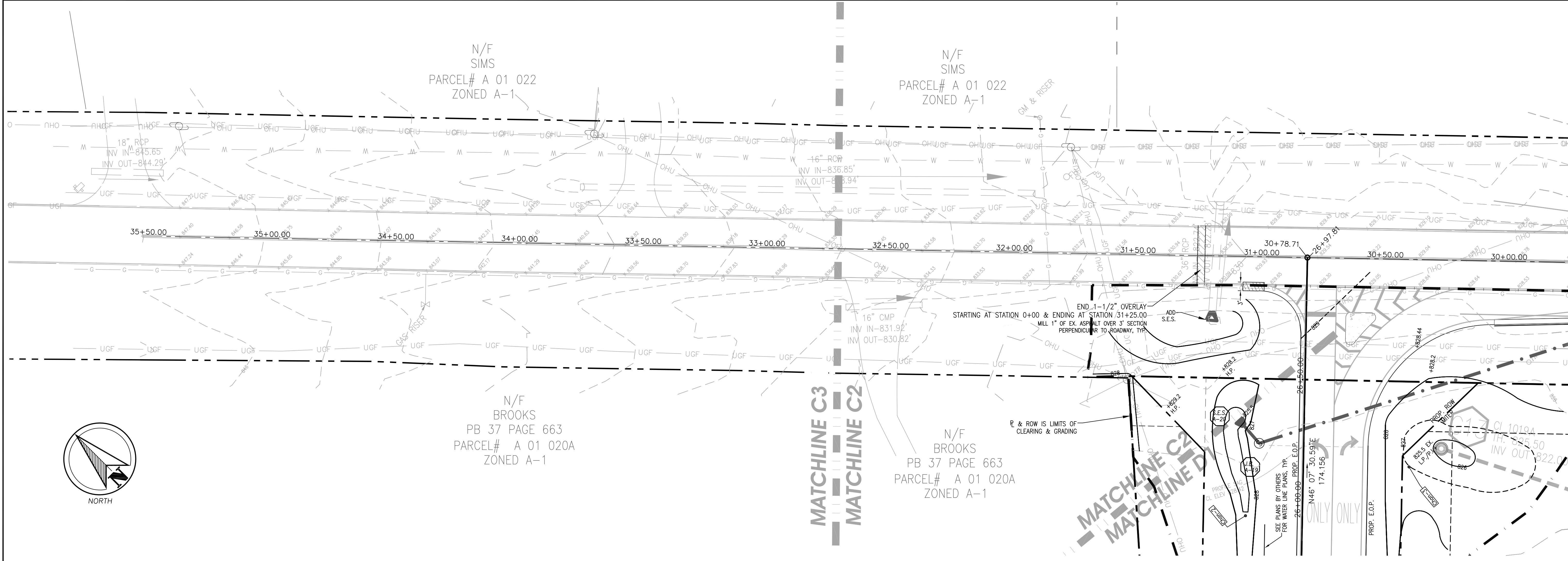


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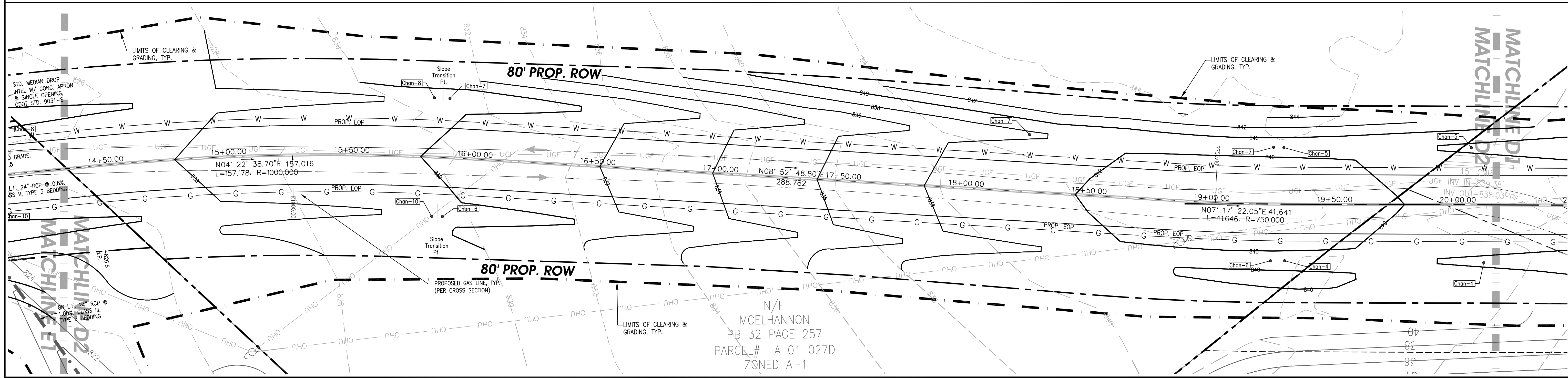
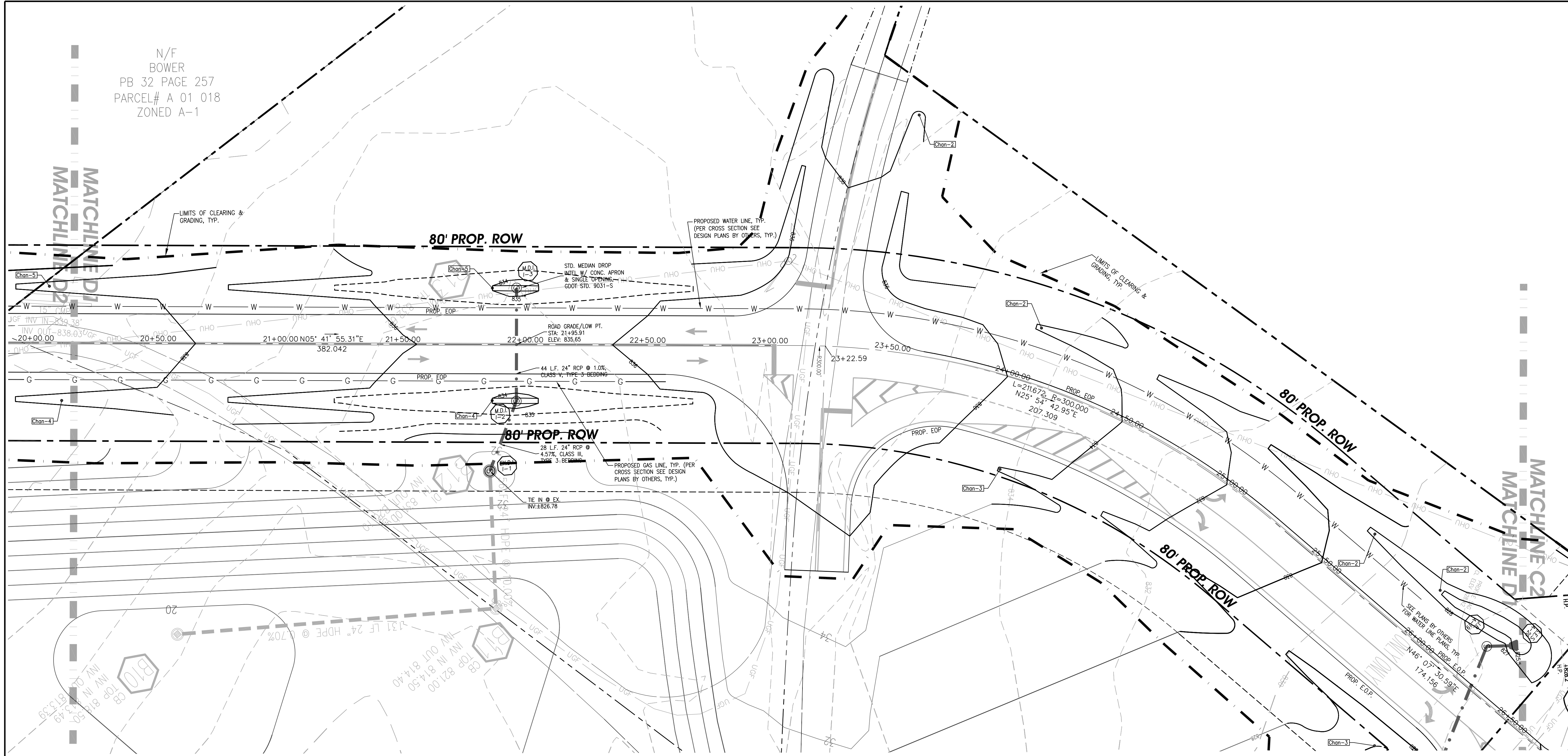
- GRADING NOTES:**
- Ground surface shall be stripped of vegetation including grass, roots, debris, top soil and surficial organics; unsuitable soils and deleterious materials shall be removed from ground surface prior to placement of fill materials. Unsuitable soils shall be removed & replaced with 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 otherwise 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.
 - Reserve
 - 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 (ACCOMP) 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.

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.

- GDOT UTILITY NOTES:**
- ALL UTILITY RELOCATIONS REQUIRED BY THIS PROJECT THAT ARE ON A STATE ROUTE MUST BE PERMITTED THROUGH THE GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
 - ALL UTILITIES RELOCATED AND/OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE GDOT UTILITY MANUAL, CURRENT EDITION.
 - ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
 - UTILITY OWNERS MUST PROVIDE GDOT ACCESS/ENCHROACHMENT PERMITS AS PART OF THE WORK DESCRIPTION.
 - 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.



N/F
BOWER
PB 32 PAGE 257
PARCEL# A 01 018
ZONED A-1

N/F
MCELHANNON
PB 32 PAGE 257
PARCEL# A 01 027D
ZONED A-1



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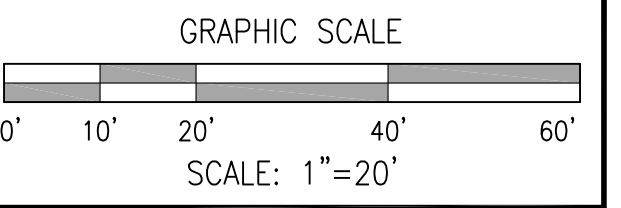
GRADING PLAN D

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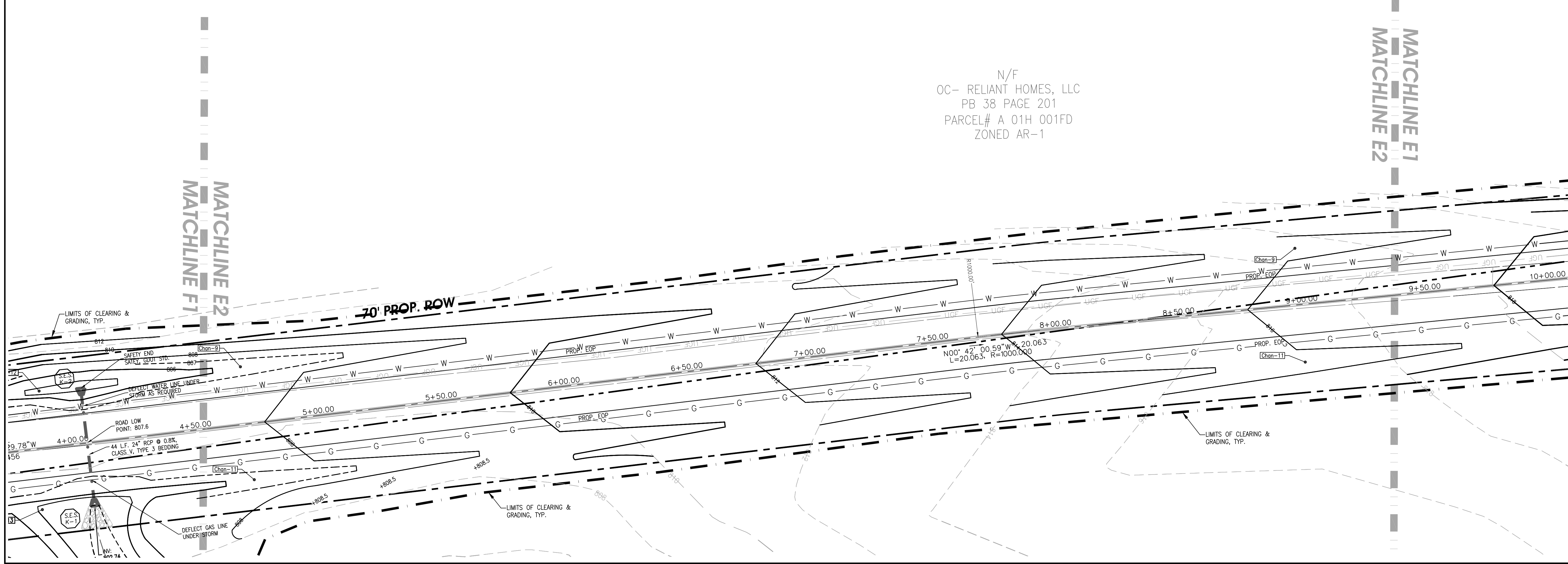
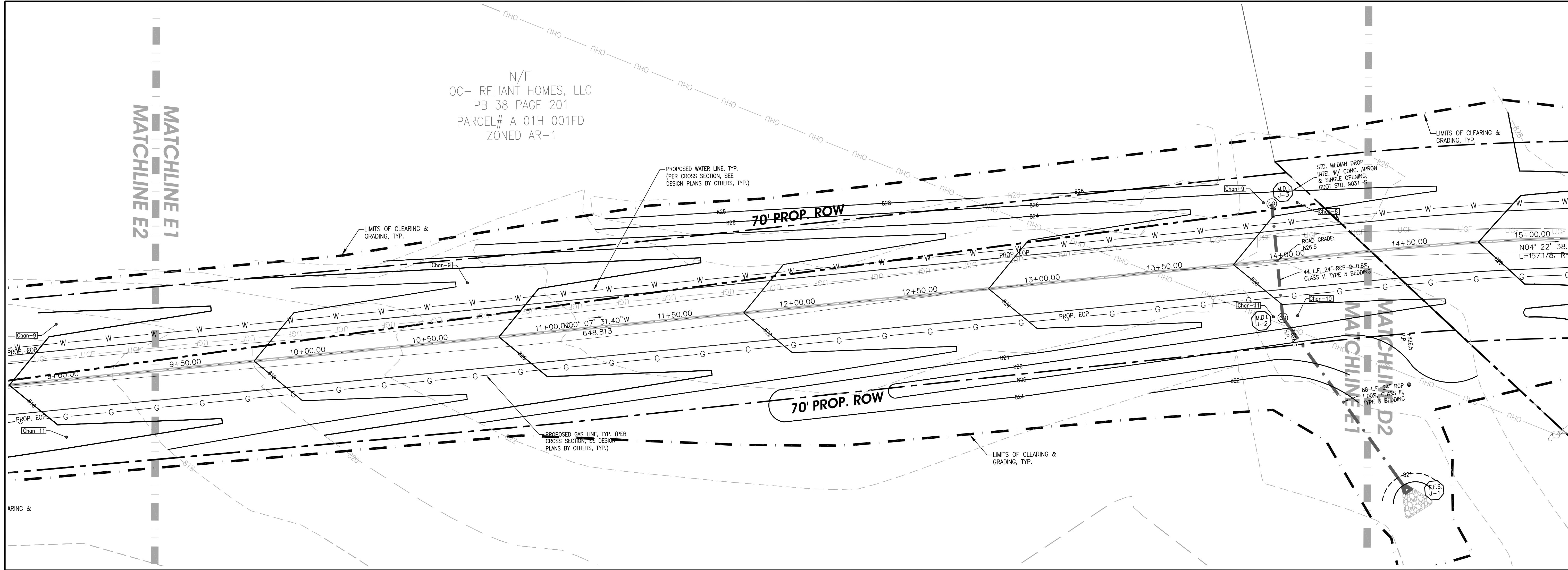


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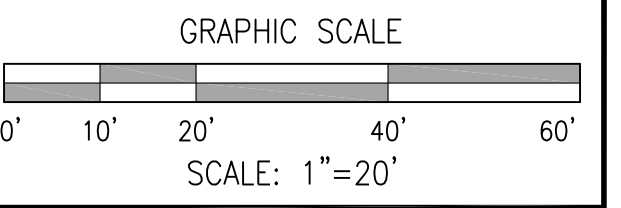
GRADING PLAN E

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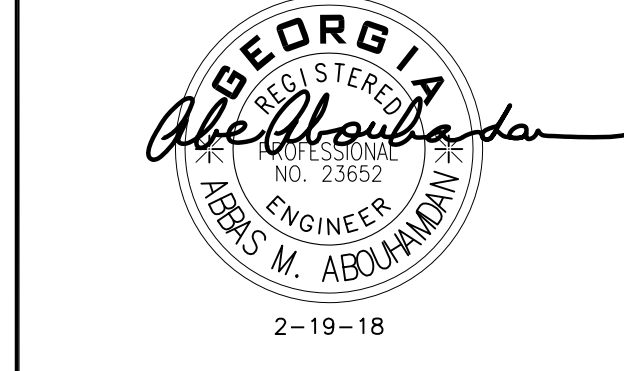
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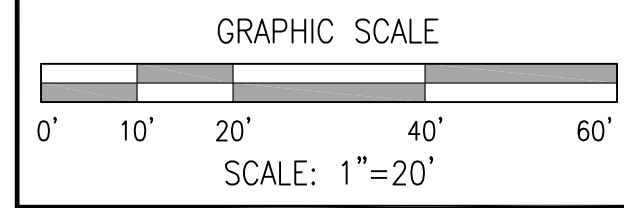
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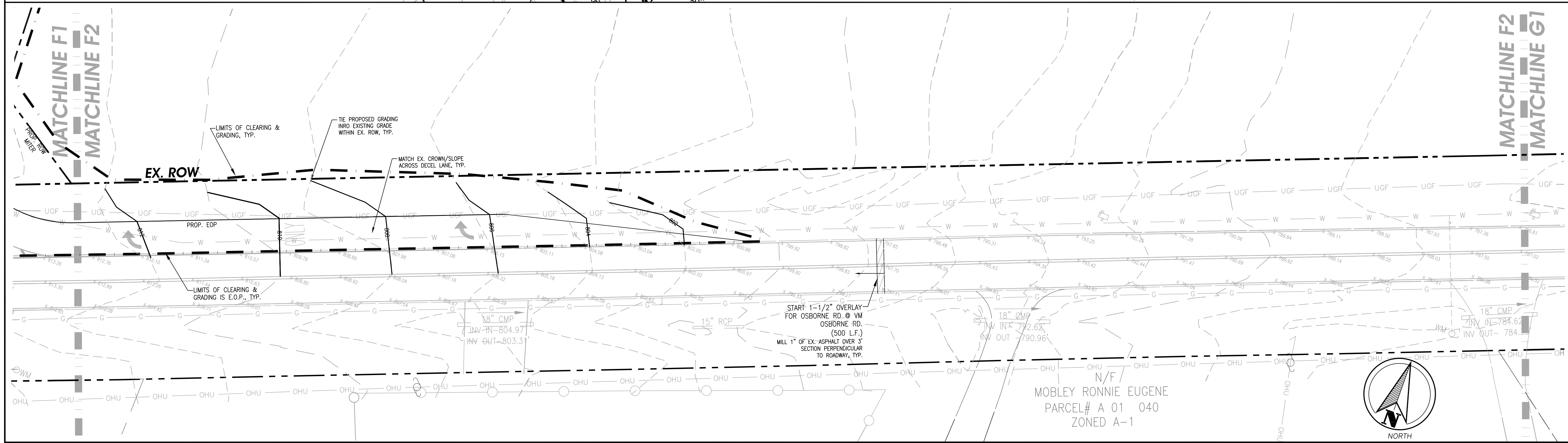
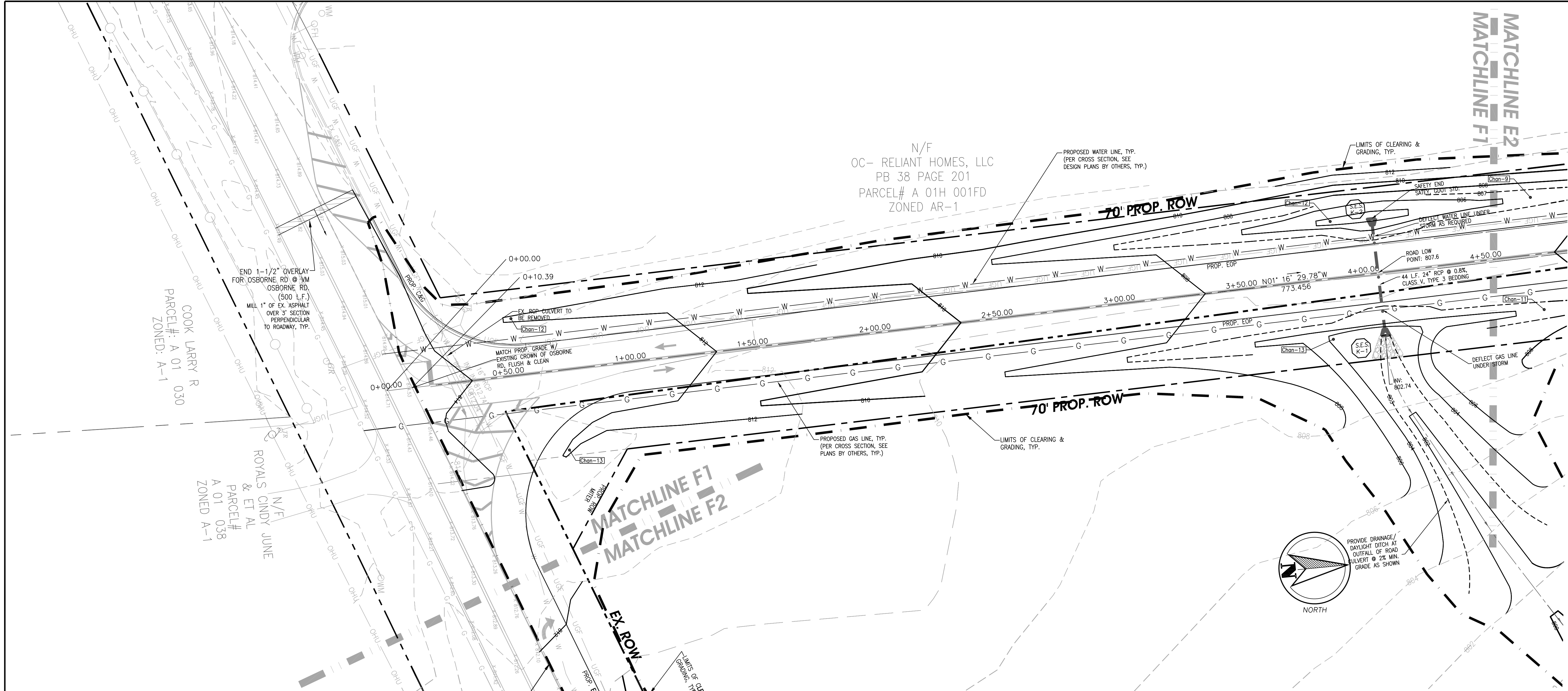


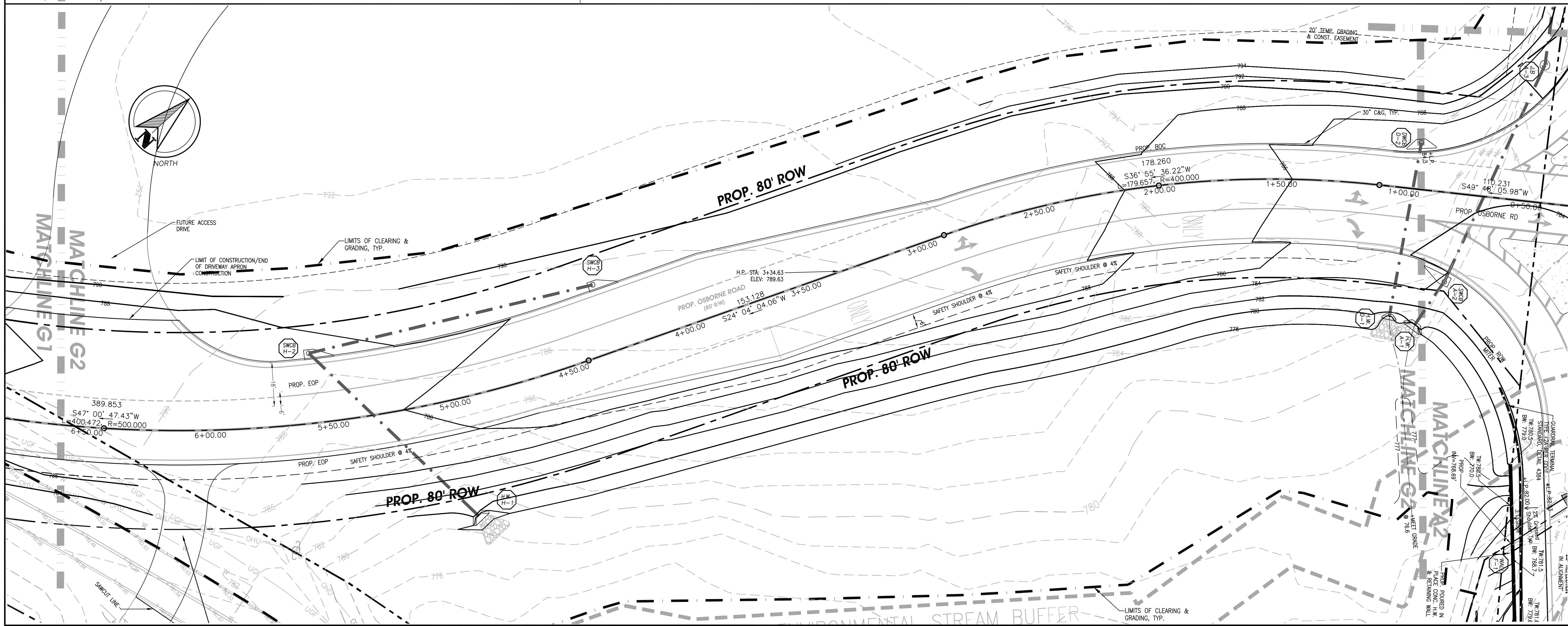
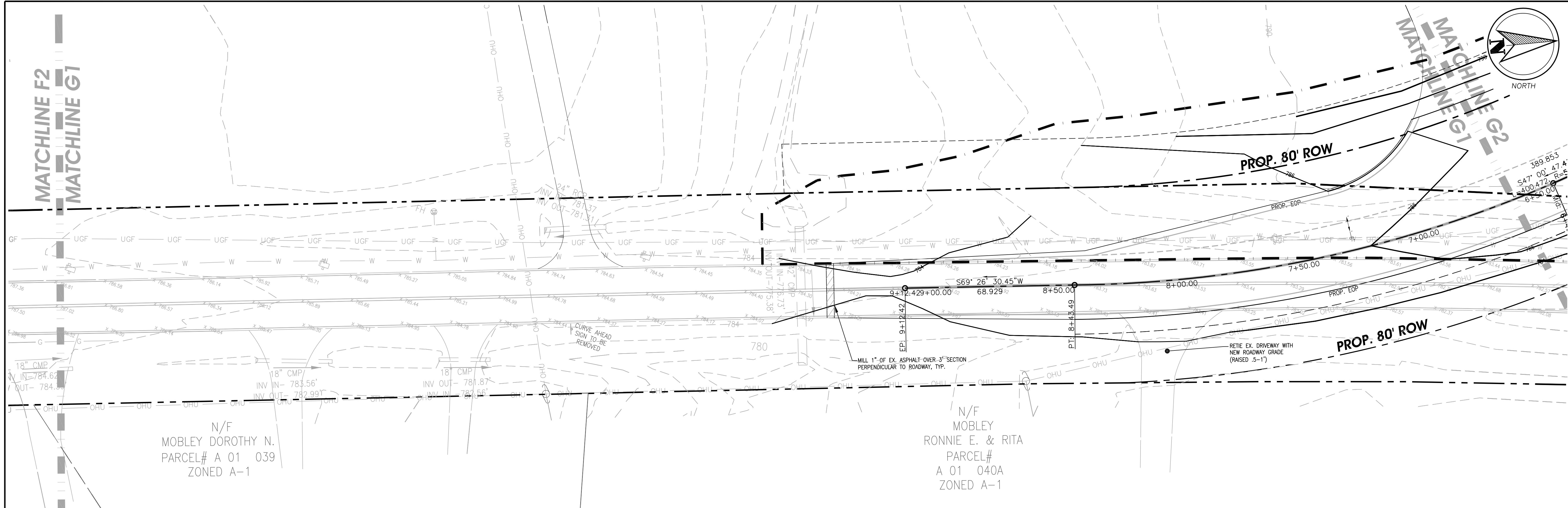
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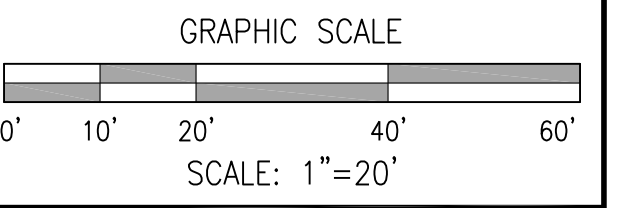
GRADING PLAN G

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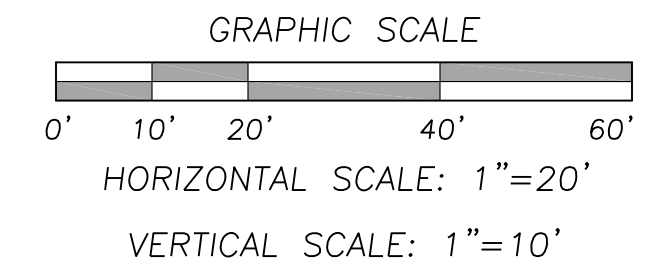
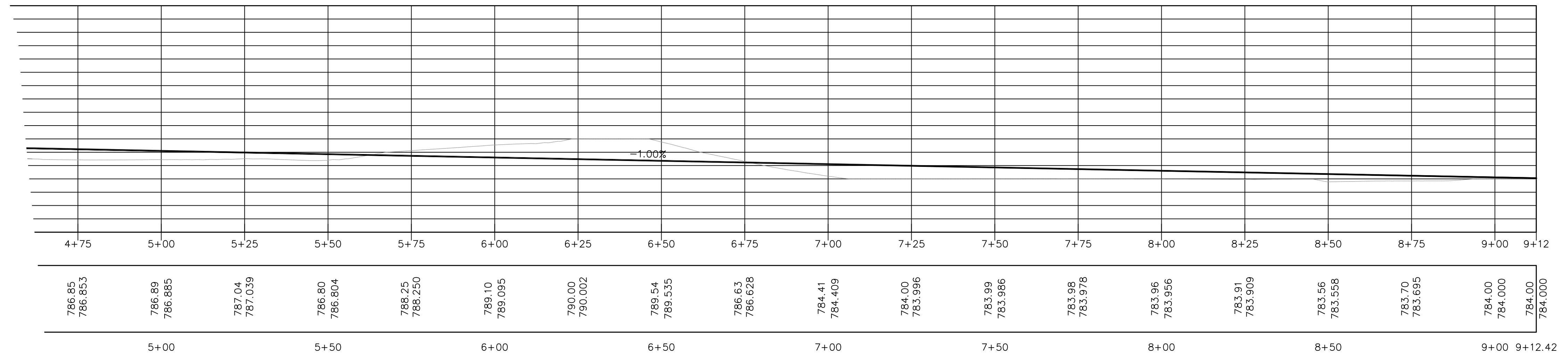
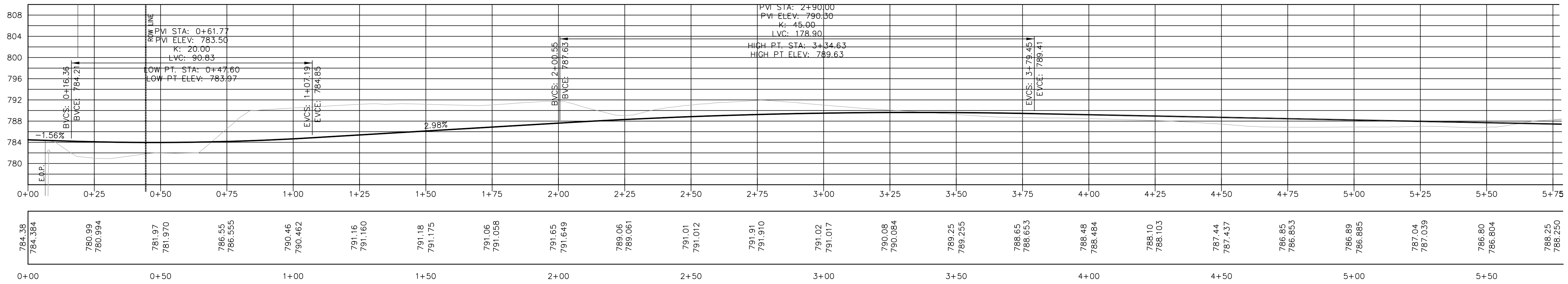


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ROAD PROFILE OSBORNE ROAD (REALIGNMENT)

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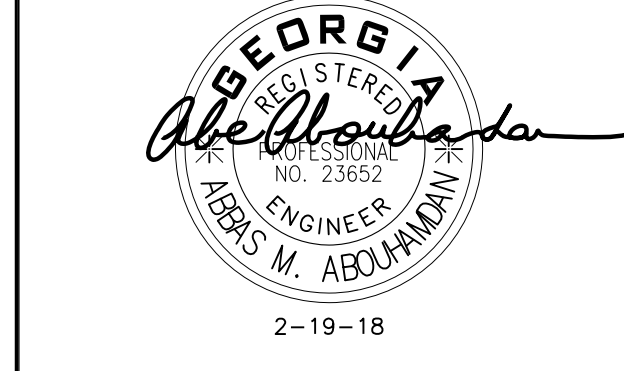
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VM OSBORNE ROAD PROFILE PART "A"

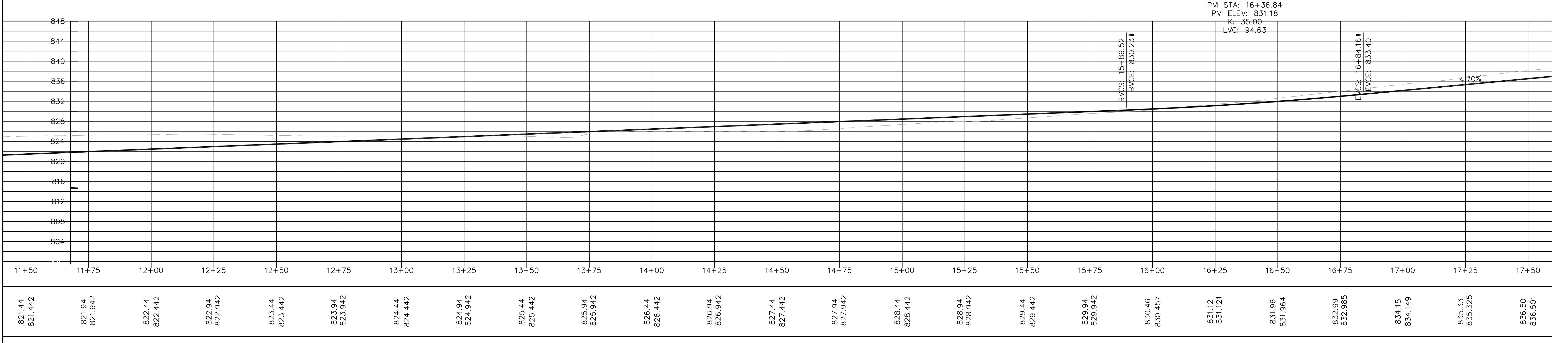
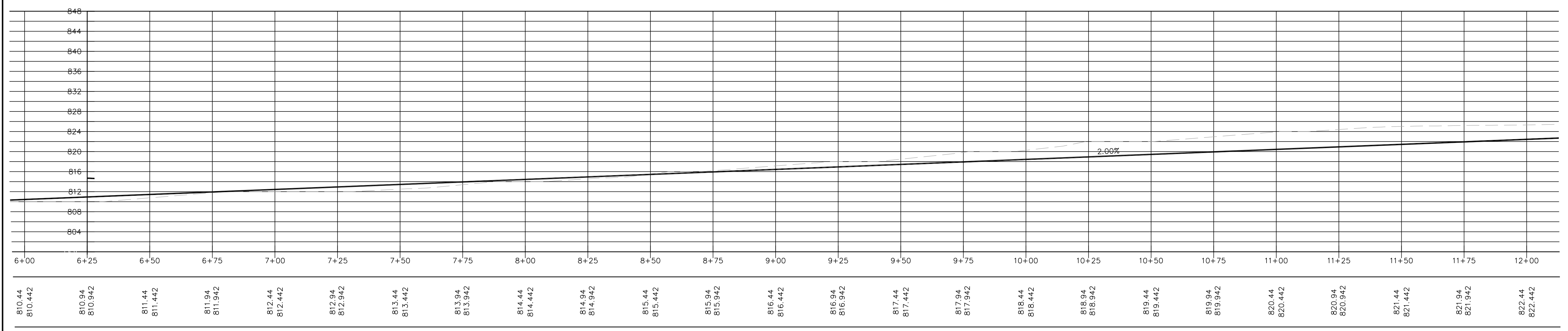
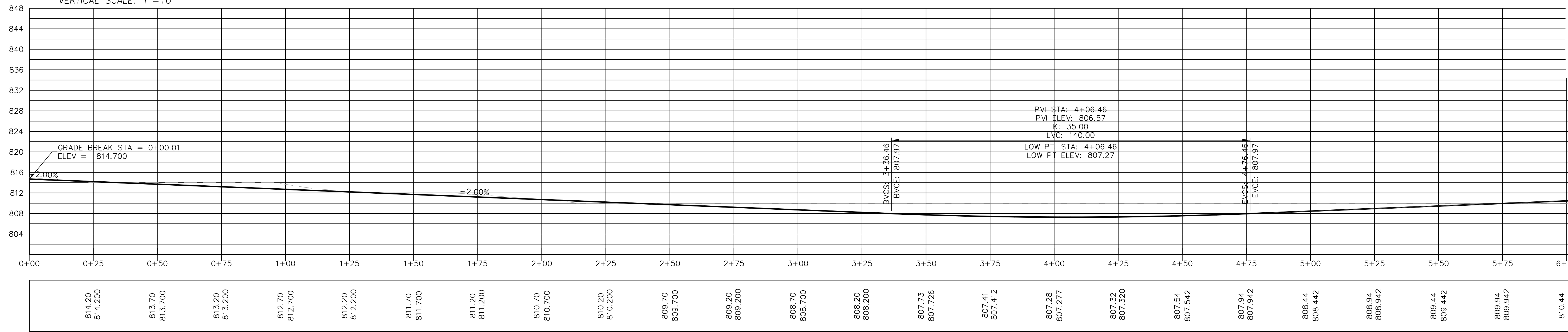
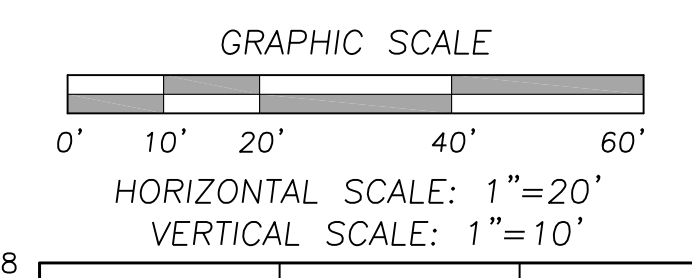
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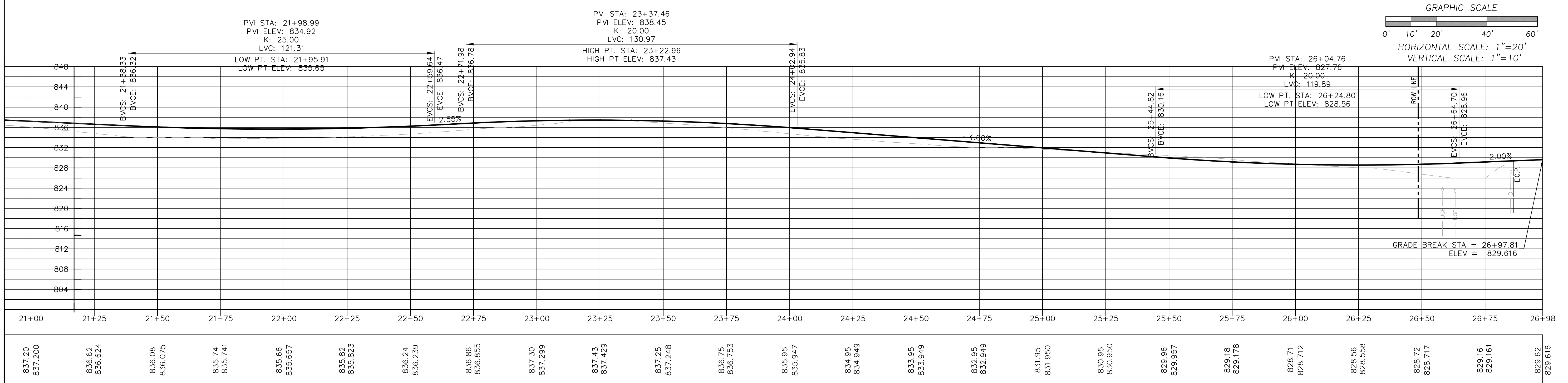
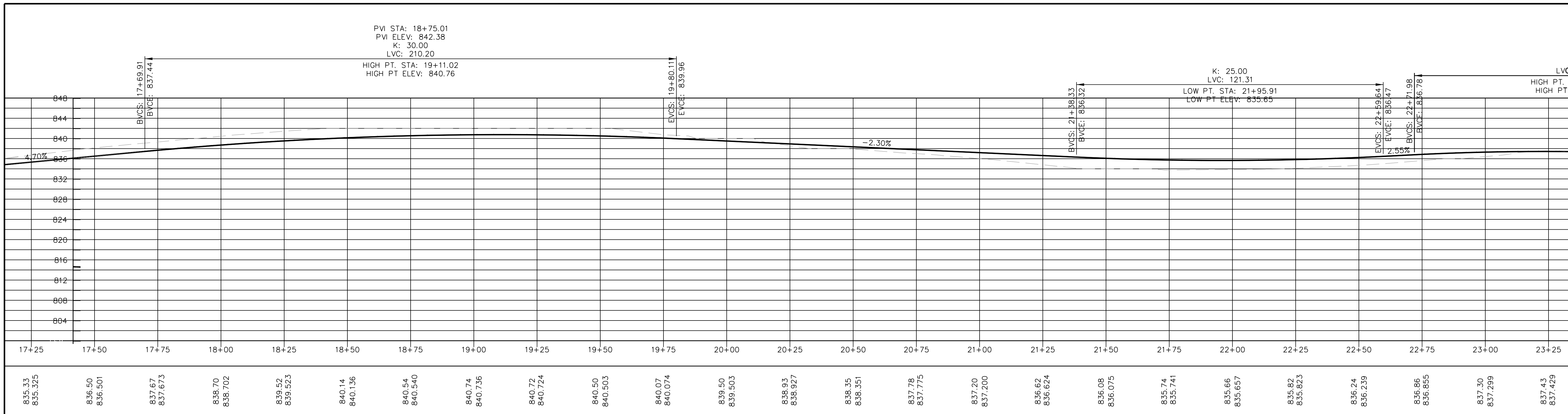


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837.200	836.624	836.075	835.741	835.657	835.823	836.239	836.855	837.299	837.429	837.248	836.753	835.947	834.949	833.949	832.949	831.950	830.950	829.957	829.178	828.712	828.558	828.717	829.161	829.616

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837.200	836.624	836.075	835.741	835.657	835.823	836.239	836.855	837.299	837.429	837.248	836.753	835.947	834.949	833.949	832.949	831.950	830.950	829.957	829.178	828.712	828.558	828.717	829.161	829.616



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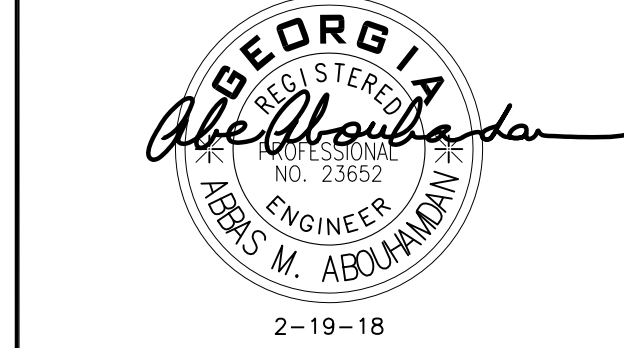
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 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

VM OSBORNE ROAD PROFILE PART "B"

ISSUED FOR BIDDING

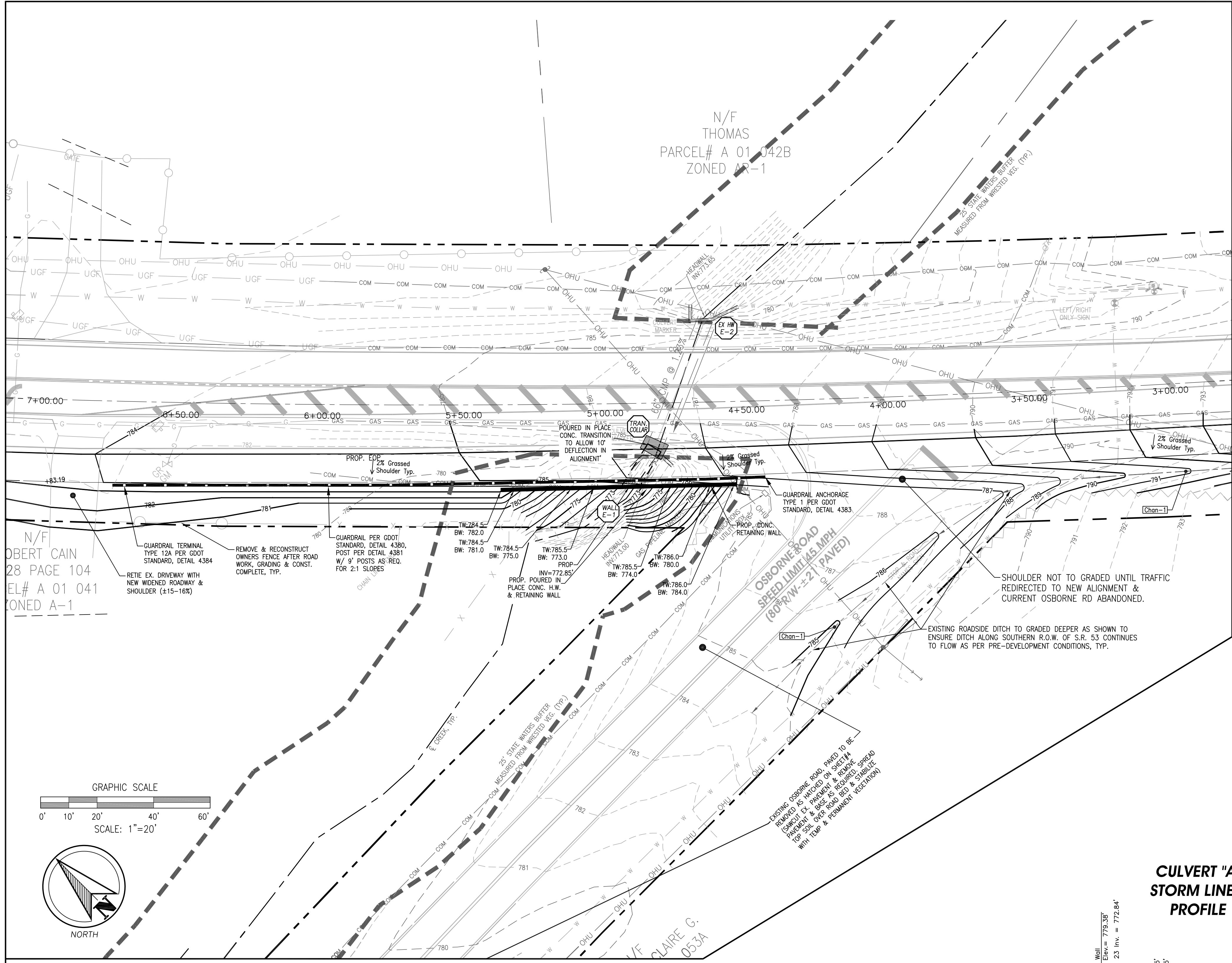


REVISIONS	DATE

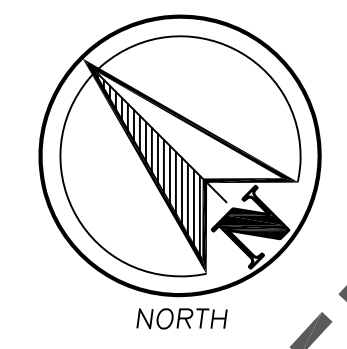
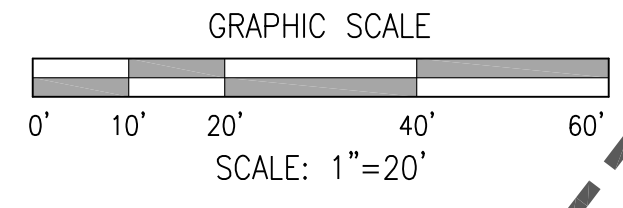
DATE: 2-19-18

PROJECT #: 17-021-48

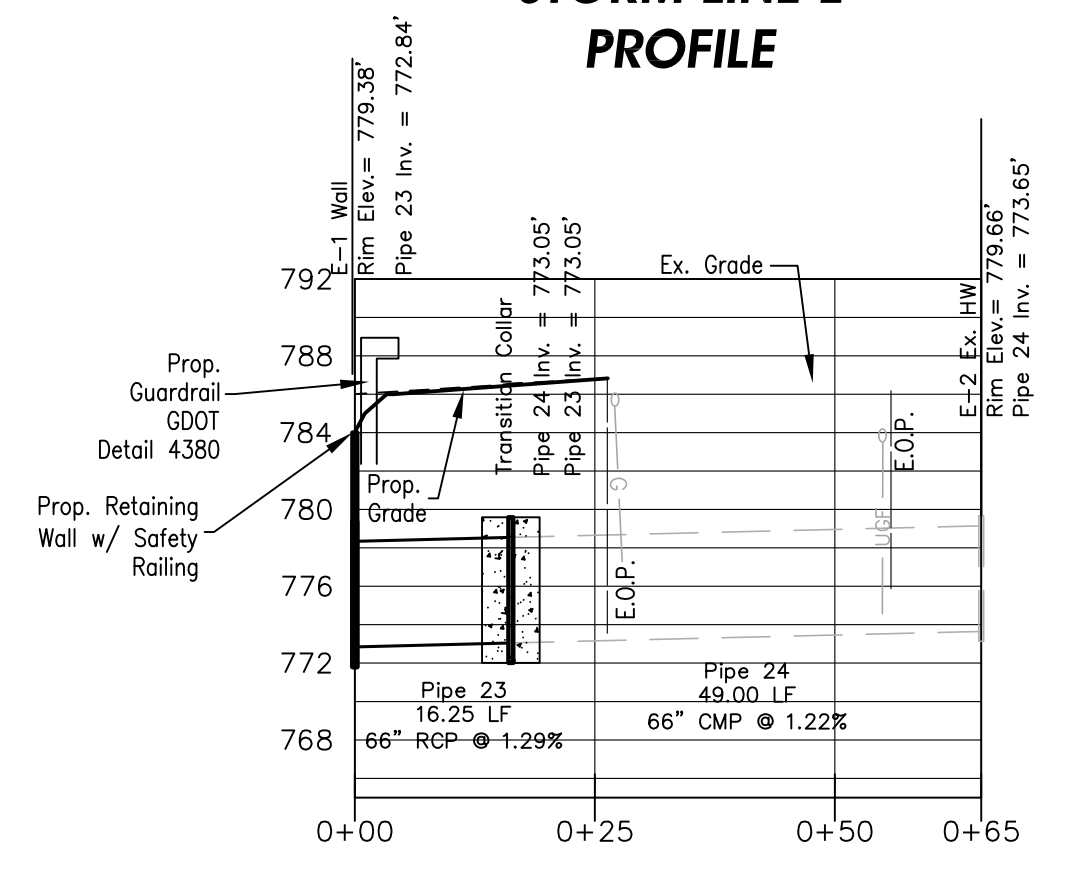
SHEET #
54
 62



N/F
ROBERT CAIN
28 PAGE 104
EL# A 01 041
ZONED A-1



**CULVERT "A"
STORM LINE E
PROFILE**



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



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**DOVE CREEK
SCHOOL R/W
IMPROVEMENTS**

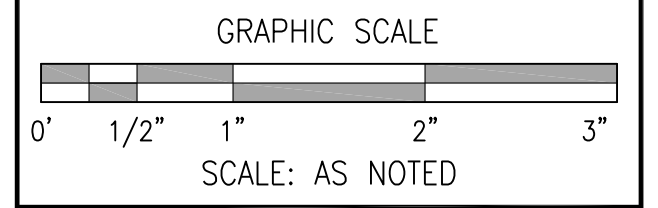
7921 HOG MOUNTAIN RD.
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STATHAM, GA 30666
OCONEE COUNTY, GA
224th GMD
GDOT DISTRICT# 1

**CULVERT CROSSING
PLAN "A"
& PROFILE**

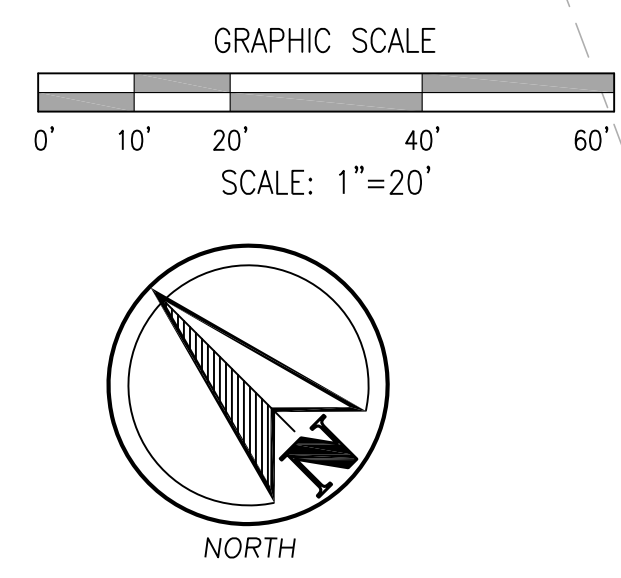
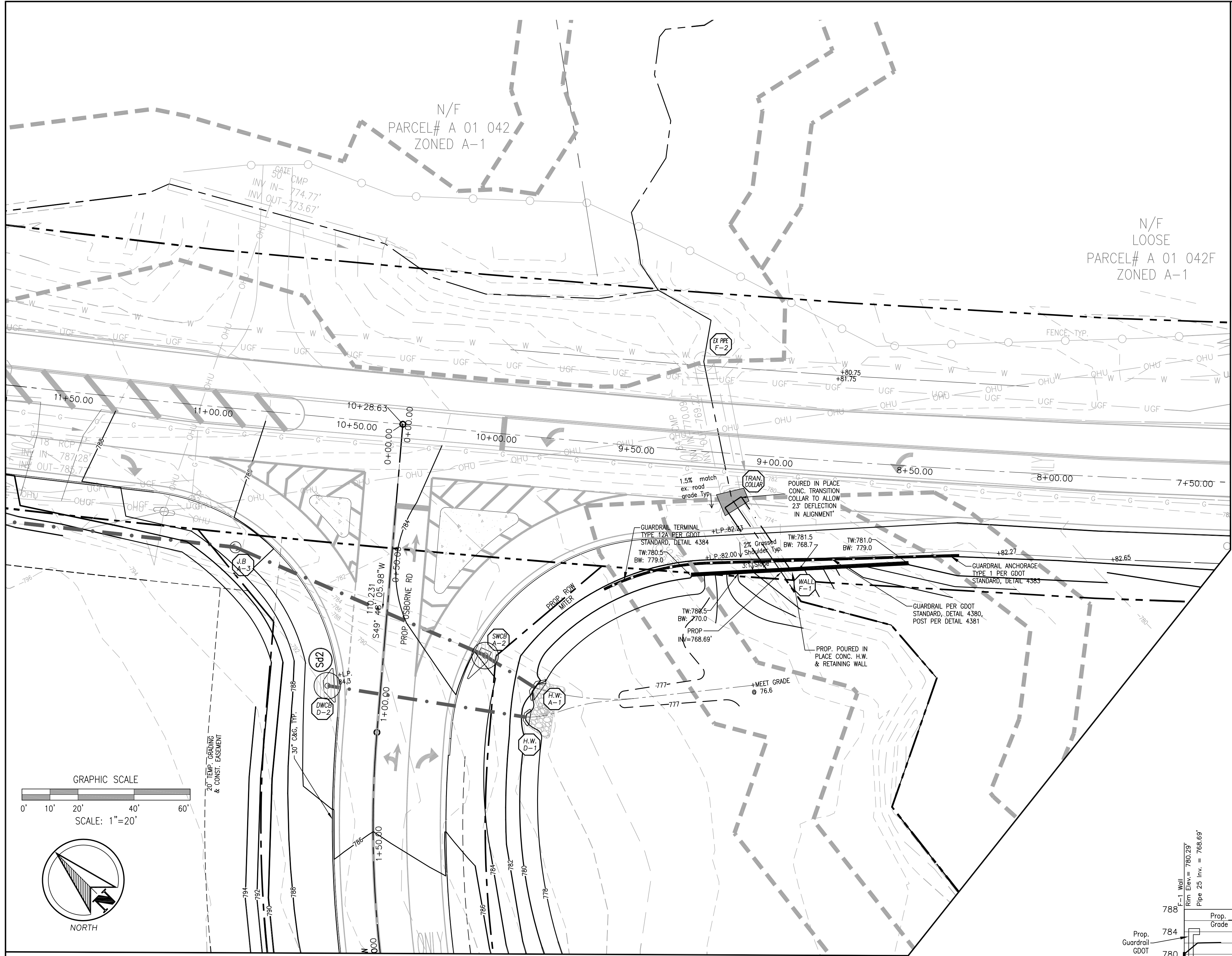
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REVISIONS	DATE

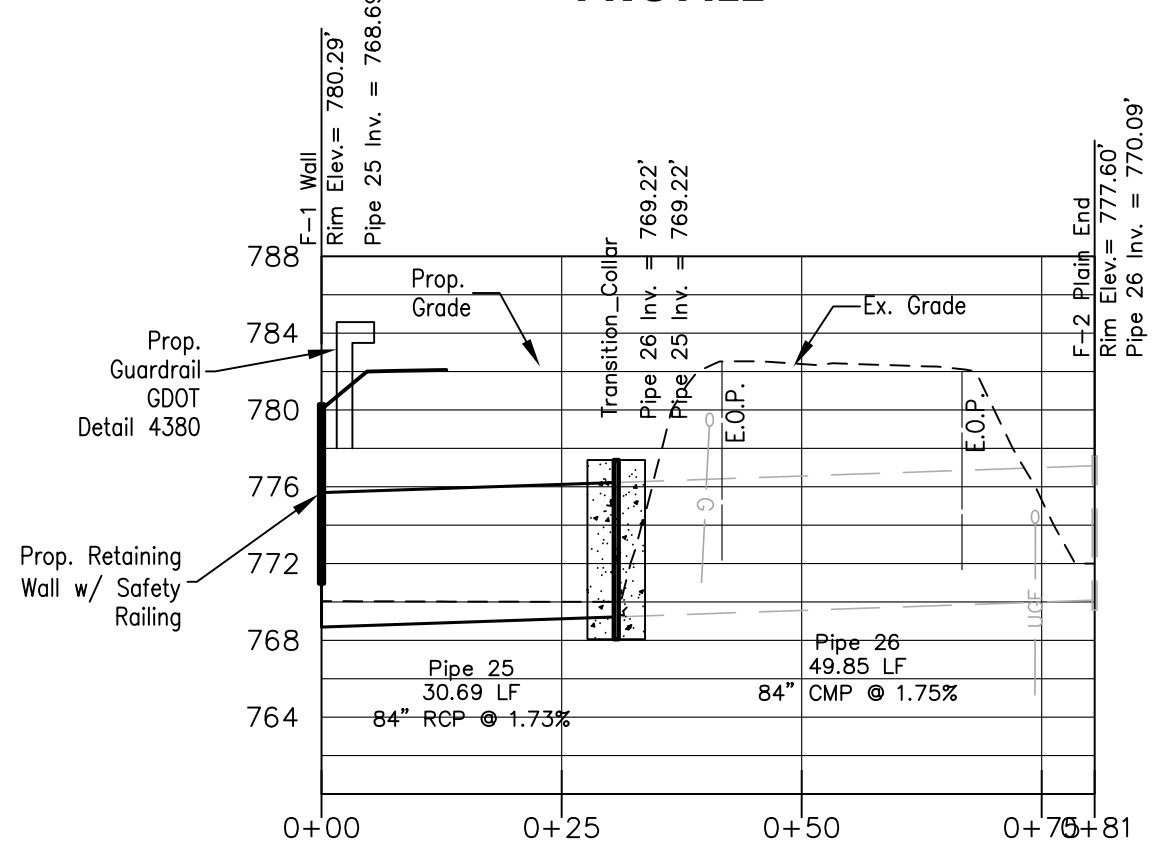
DATE: 2-19-18
PROJECT #: 17-021-48



SHEET #
55
62



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



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



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SCHOOL R/W
IMPROVEMENTS**

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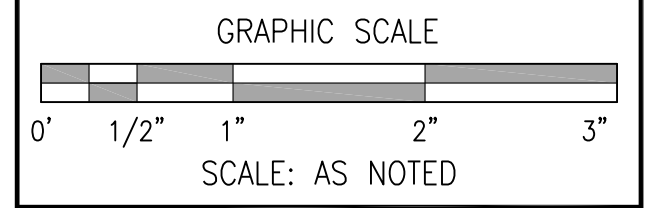
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56
62

STRUCTURAL GENERAL NOTES:

SECTION A: GENERAL

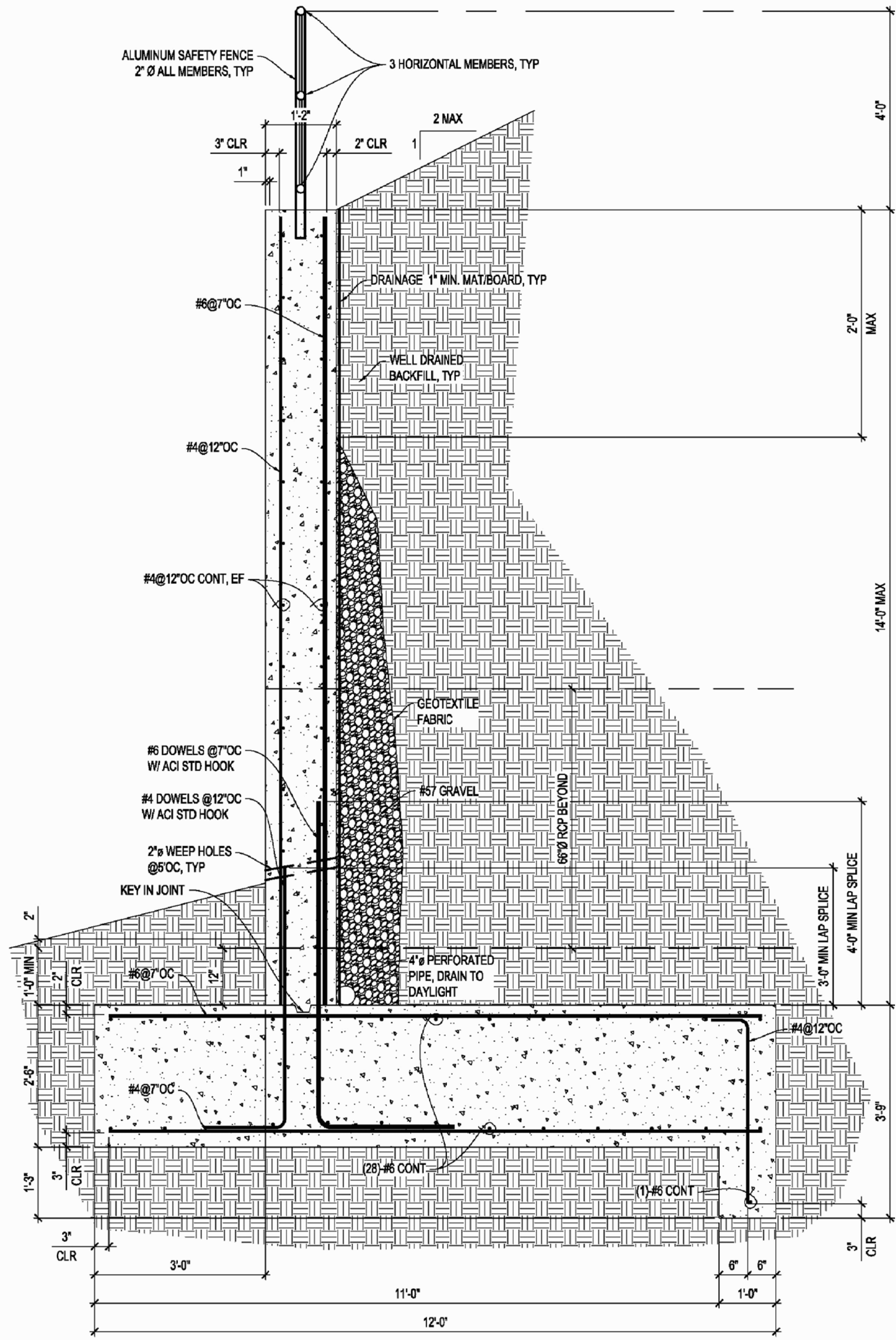
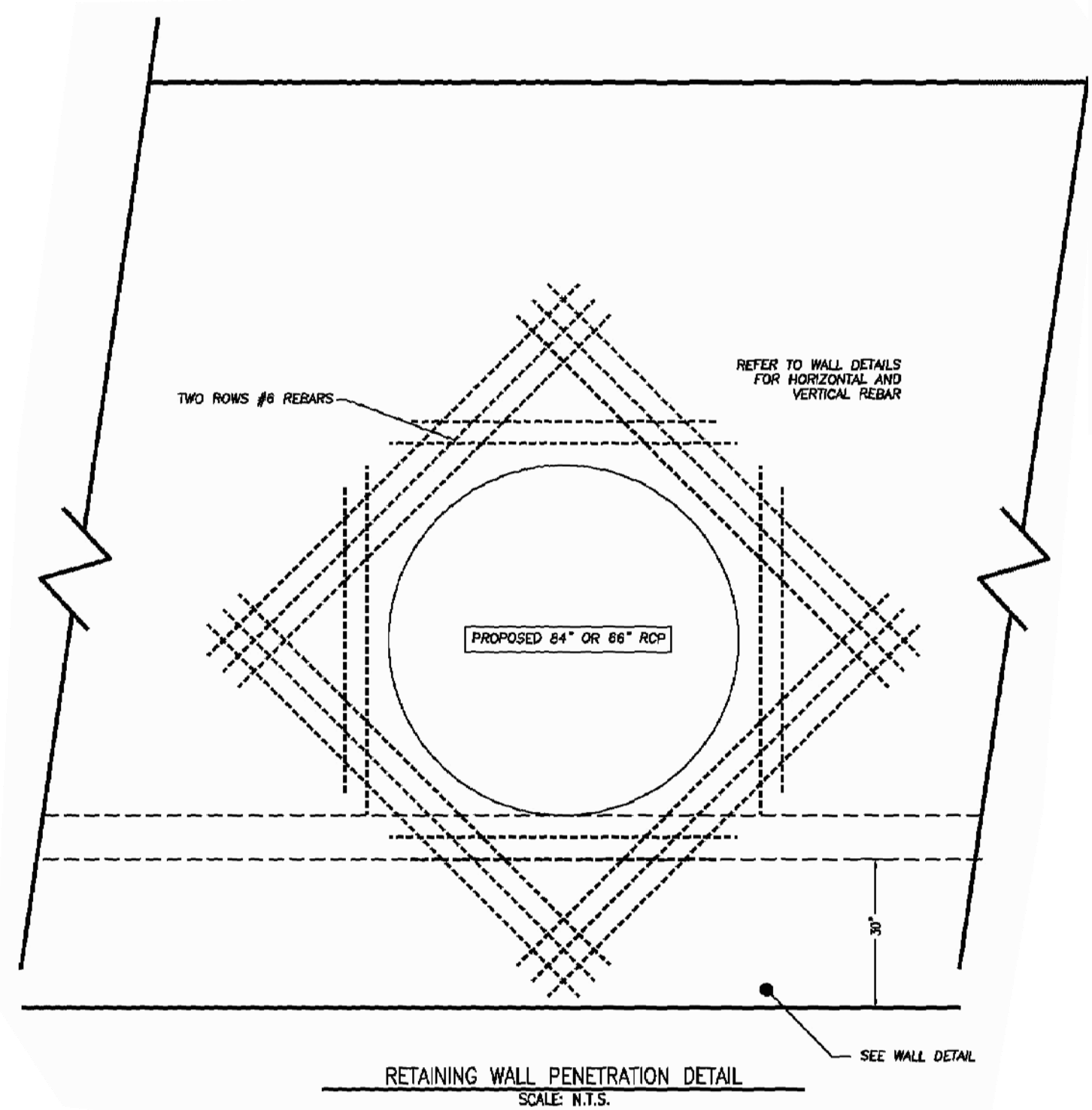
- THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
- THE SCOPE OF SERVICES PROVIDED BY ABE CONSULTING, INC. (ABE) WAS LIMITED SOLELY TO THE STRUCTURAL DESIGN OF THE NEW COMPONENTS SPECIFIED HEREIN. THIS STRUCTURAL DRAWING SET IS INTENDED AS A "BUILDER'S SET" FOR USE BY A CONTRACTOR WITH EXTENSIVE EXPERIENCE IN SUCH WORK. ANY DETAILS, COMPONENTS, ETC. NOT SPECIFIED HEREIN ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH IBC 2012 PROVISIONS. UPON RECEIPT OF THESE DRAWINGS, THE CONTRACTOR SHALL CLOSELY REVIEW ALL OF THE INFORMATION HEREIN AND SHALL NOTIFY ABE IF MORE INFORMATION IS NEEDED.
- ALL DIMENSIONS, ANGLES, ELEVATIONS, ETC. ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR (BASED ON EXISTING FIELD CONDITIONS AND OTHER DRAWINGS) PRIOR TO SUBMITTAL OF BID, MATERIAL PURCHASE, FABRICATION, AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY ABE OF ANY DISCREPANCIES BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ANY OTHER DRAWINGS AND SHALL NOTIFY ABE OF ANY CONFLICTS OR DISCREPANCIES BEFORE PROCEEDING.
- WHERE A SECTION, DETAIL, OR NOTE IS GIVEN FOR ONE CONDITION/LOCATION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS/LOCATIONS, UNLESS NOTED OTHERWISE.
- MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION WERE NOT EVALUATED OR DESIGNED BY ABE AND ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. ABE HAS EVALUATED THE STABILITY OF THE STRUCTURE ONLY IN ITS FINAL FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION, AND THE CONTRACTOR SHALL DESIGN, PROVIDE, AND INSTALL ANY TEMPORARY SHORING, FORMWORK, BRACING OR OTHER COMPONENTS THAT MAY BE REQUIRED FOR STABILITY DURING INTERMEDIATE STAGES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROTECT THE EXISTING FACILITY AND COMPONENTS FROM DAMAGE DURING CONSTRUCTION.
- DRAWINGS ARE NOT TO SCALE. ANY SCALE NOTED IS PROVIDED FOR APPROXIMATE REFERENCE ONLY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2012 EDITION) WITH GEORGIA AMENDMENTS.
- ABE ASSUMES NO RESPONSIBILITY FOR JOB SITE SAFETY OR OSHA COMPLIANCE WHICH SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- IN THE EVENT OF A CONFLICT BETWEEN PORTIONS OF THE STRUCTURAL DRAWINGS/SPECIFICATIONS OR A CONFLICT BETWEEN THE STRUCTURAL DRAWINGS/SPECIFICATIONS AND THE REFERENCED CODES/SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. CONTRACTOR SHALL NOTIFY SER OF ANY CONFLICTS BEFORE PROCEEDING.
- STRUCTURAL MEMBERS (JOISTS, BEAMS, COLUMNS, STUDS, ETC.) AND REINFORCING STEEL (IN CONCRETE COLUMNS, JOISTS, BEAMS, WALLS, AND ELEVATED SLABS) SHALL NOT BE SPLICED UNLESS SHOWN HEREIN OR APPROVED IN WRITING BY THE SER.
- PROVIDE AS USED HEREIN SHALL MEAN PROVIDE AND INSTALL.
- CONSTRUCTION ADMINISTRATION AND SITE VISITS DURING CONSTRUCTION ARE NOT CURRENTLY INCLUDED IN ABE'S SCOPE OF WORK FOR THIS PROJECT.

SECTION B: FOUNDATIONS

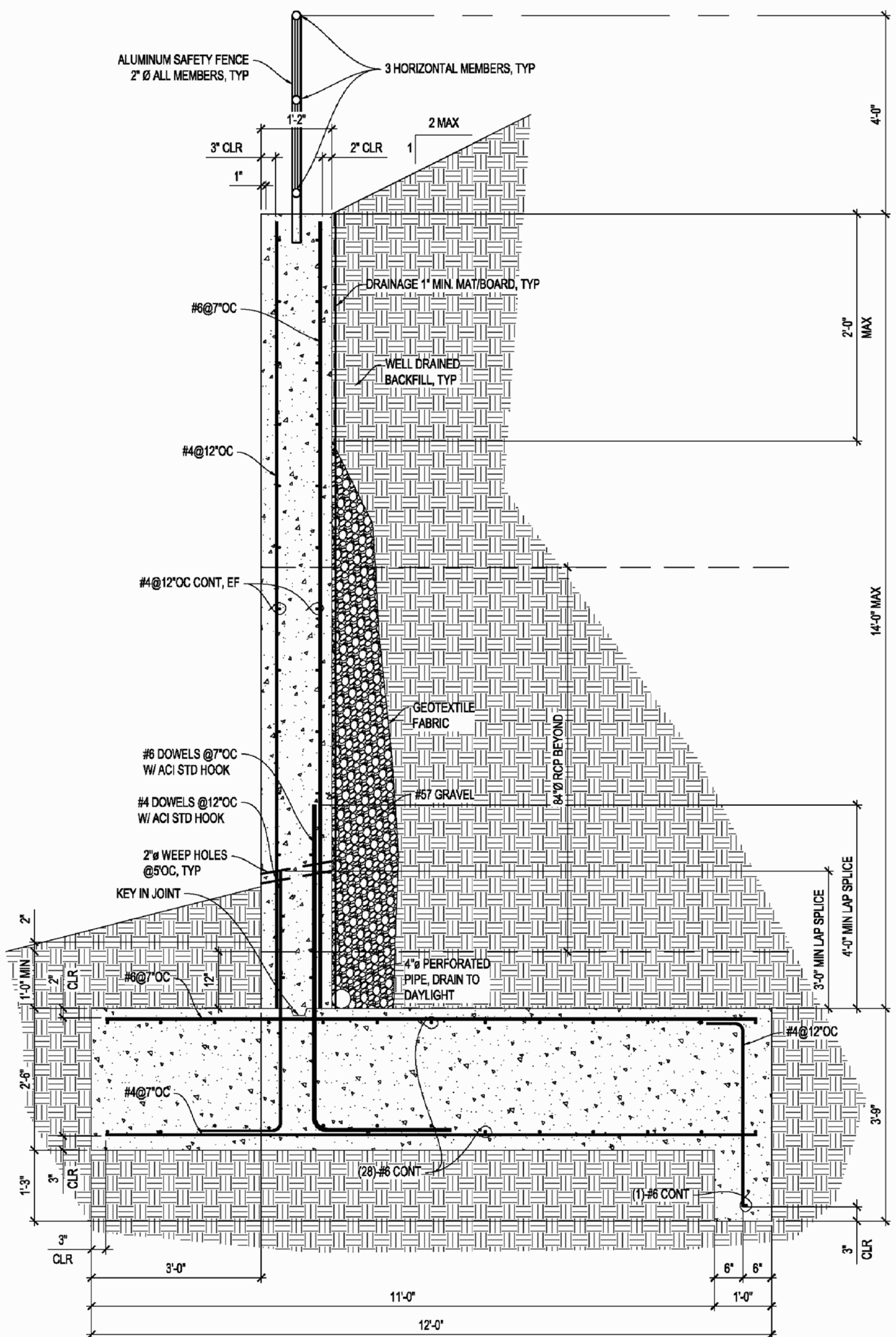
- A DESIGN NET ALLOWABLE BEARING PRESSURE OF 3000 PSF WAS USED. AN INDEPENDENT, QUALIFIED, GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE ABOVE-REFERENCED ALLOWABLE NET BEARING CAPACITY IS OBTAINED IN ALL FOOTING EXCAVATIONS BEFORE CONCRETE PLACEMENT. ANY NON-COMPLIANT AREAS SHALL BE CORRECTED PER THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER TO OBTAIN THE NET ALLOWABLE BEARING CAPACITY SPECIFIED ABOVE.
- BACKFILL PLACEMENT AND COMPACTION SHALL BE MONITORED, TESTED, AND APPROVED BY A GEOTECHNICAL ENGINEER. UNO, THE TOP 1' OF BACKFILL BENEATH SLABS-ON-GRADE SHALL BE SCARIFIED, DRED, AND COMPACTED TO A MIN. OF 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. UNO, ALL BACKFILL BELOW FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE GEOTECHNICAL ENGINEER TO ACHIEVE THE ALLOWABLE BEARING PRESSURE LISTED ABOVE. UNO, OTHER BACKFILL SHALL BE COMPACTED TO A MIN. OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- CLEAN OUT ALL FOOTING EXCAVATIONS (OF LOOSE/SOFT SOIL, STANDING WATER, MUD, DEBRIS, ETC.) IMMEDIATELY BEFORE CONCRETE PLACEMENT.

SECTION C: CONCRETE CONSTRUCTION (INCLUDING REBAR AND SLABS-ON-GRADE)

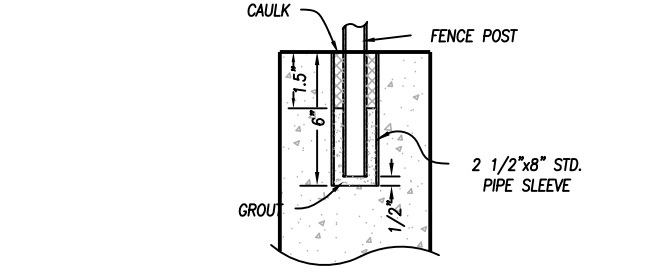
- ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- WHERE EPOXY ANCHORAGE OF REINFORCING STEEL BARS IS SPECIFIED, UNO THE HIT-HI-HY 200 ADHESIVE ANCHORING SYSTEM SHALL BE USED. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE MAXIMUM PERFORMANCE OF THE EPOXY ANCHORAGE SYSTEM.
- PROVIDE CLEAR CONCRETE COVER FOR ALL REINFORCING STEEL BARS PER ACI 318. UNO, PROVIDE THE FOLLOWING CLEAR CONCRETE COVER:
 - 3" FOR REBAR IN CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH
 - 1 1/2" FOR #5 AND SMALLER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER
 - 2" FOR #6 AND LARGER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER
 - 1/2" UNO
- ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 WITH F_y=60,000 PSI. UNO, REINFORCING STEEL SHALL BE SUPPORTED ON PLASTIC OR STEEL CHAIRS (W/ EPOXY-COATED LEGS WHERE CHAIRS ARE IN CONTACT WITH EARTH). PROVIDE SIZE AND SPACING OF CHAIRS AS REQUIRED TO ADEQUATELY SUPPORT REINFORCING STEEL PRIOR TO AND DURING CONCRETE PLACEMENT. (REBAR STAKES AND WOOD BLOCKS ARE NOT ALLOWED.)
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. UNO, CONTRACTOR SHALL SUBMIT MIX DESIGN AND ASSOCIATED DATA, PER ACI 318, TO ABE BEFORE CONSTRUCTION AND SHALL AWAIT REVIEW AND APPROVAL BEFORE PROCEEDING.
- WATER, IN EXCESS OF THAT SHOWN IN THE MIX DESIGN, SHALL NOT BE ADDED TO CONCRETE AT THE PROJECT SITE OR DURING PLACEMENT UNLESS APPROVED BY THE SER.
- ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS. (REFER TO ACI 309 - GUIDE FOR CONSOLIDATION OF CONCRETE.)
- WET CURE UNFORMED CONCRETE FOR 7 DAYS, MINIMUM, AFTER PLACEMENT UNLESS AN ALTERNATIVE CURING METHOD IS SUBMITTED BY THE CONTRACTOR AND APPROVED, IN WRITING, BY THE AOR OR SER.
- ALL CONCRETE CONSTRUCTION, INCLUDING REINFORCING STEEL, SHALL BE OBSERVED AND TESTED BY A QUALIFIED, INDEPENDENT PARTY. CONCRETE TEMPERATURES, SLUMPS, AND AIR CONTENTS SHALL BE TESTED, RECORDED, AND VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED MIX DESIGN. TEST CYLINDERS SHALL BE CAST (IN SETS OF FOUR) AND TESTED TO VERIFY COMPRESSIVE STRENGTH. THE ABOVE REFERENCED TESTS AND TEST CYLINDERS SHALL BE PERFORMED AT THE RATE OF ONE SET OF TESTS/CYLINDERS FOR EACH 50 CUBIC YARDS (OR LESS) OF EACH MIX DESIGN OF CONCRETE PLACED IN A DAY.



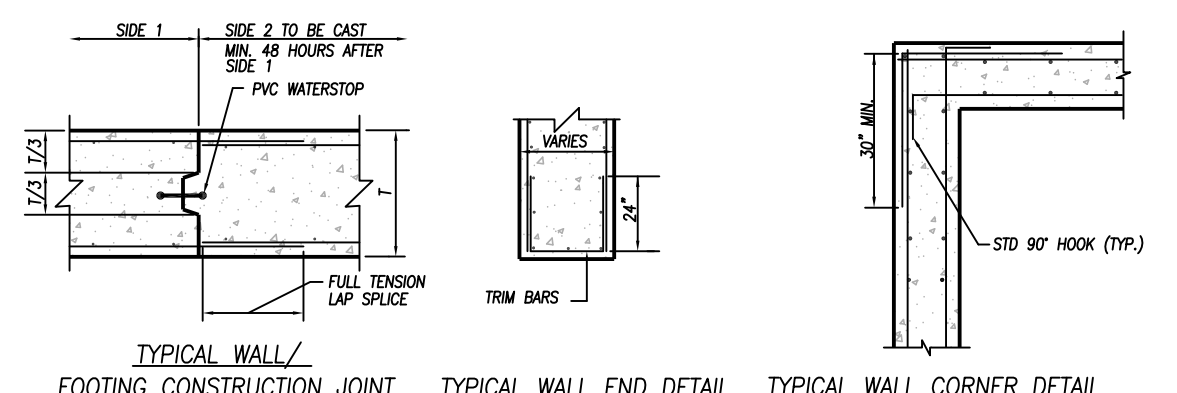
RETAINING WALL E-1 AT 66" RCP DETAIL
NTS



RETAINING WALL F-1 AT 84" RCP DETAIL
NTS



DETAIL OF RAILING SLEEVE IN WALL
NTS



TYPICAL WALL JOINT, CORNER AND END DETAILS
NTS



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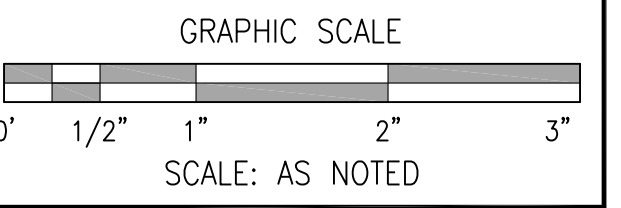
RETAINING WALL DETAILS

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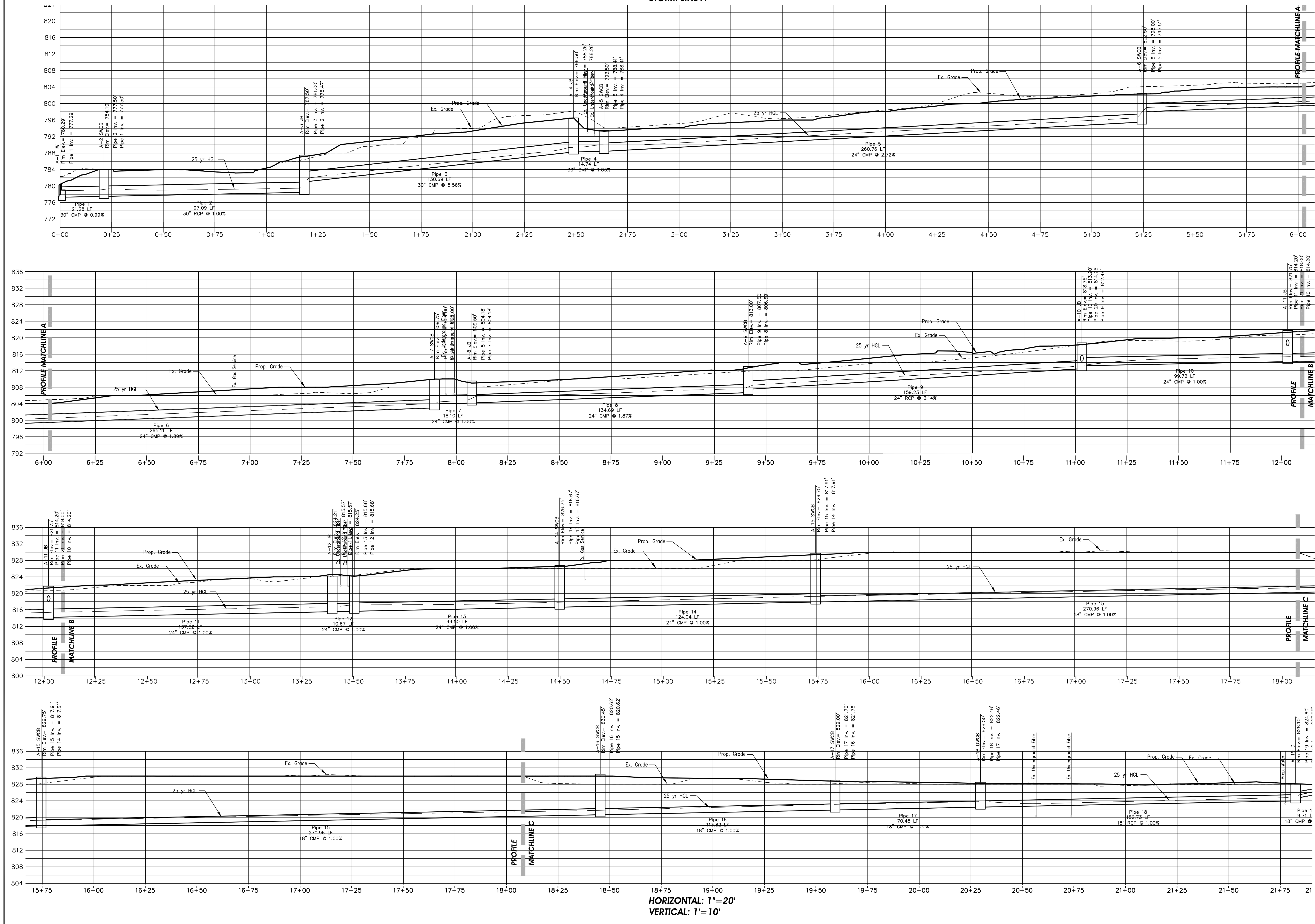
REVISIONS	DATE

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



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STORM LINE A



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



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STORM PROFILES "A"

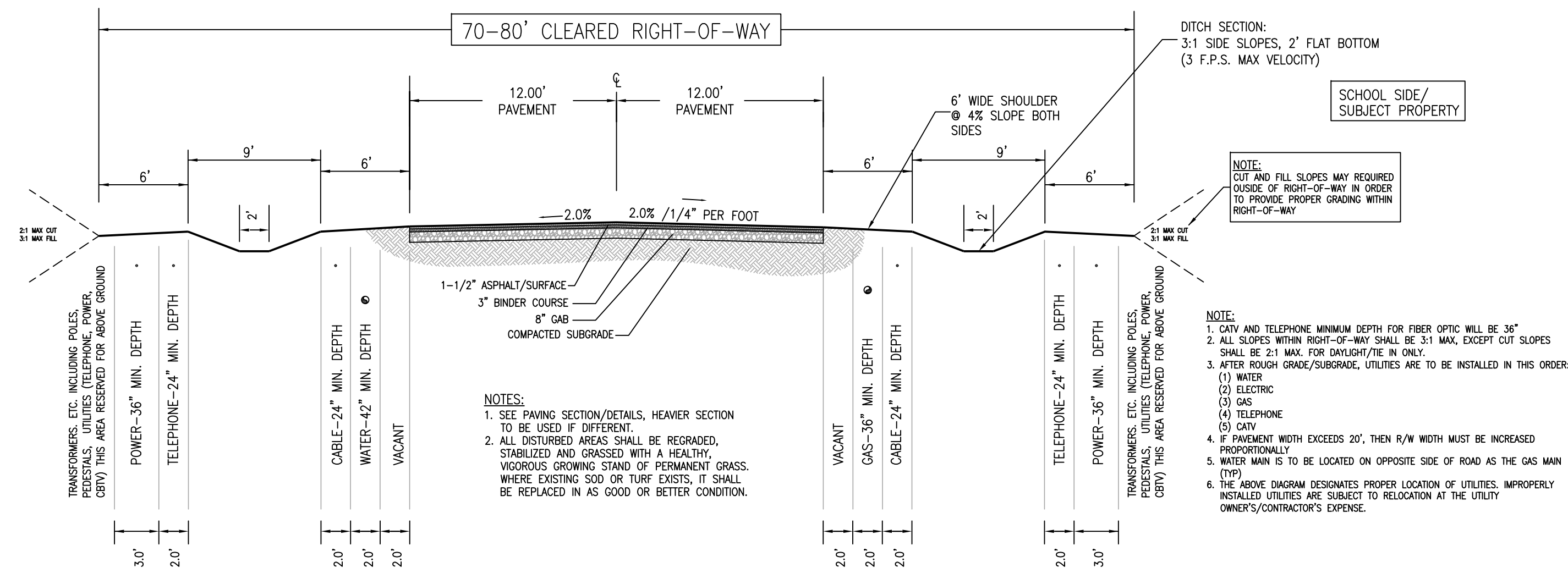
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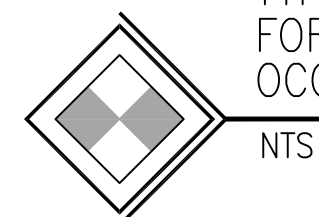
REVISIONS	DATE

DATE: 2-19-18
 PROJECT #: 17-021-48
 GRAPHIC SCALE
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 SCALE: AS NOTED

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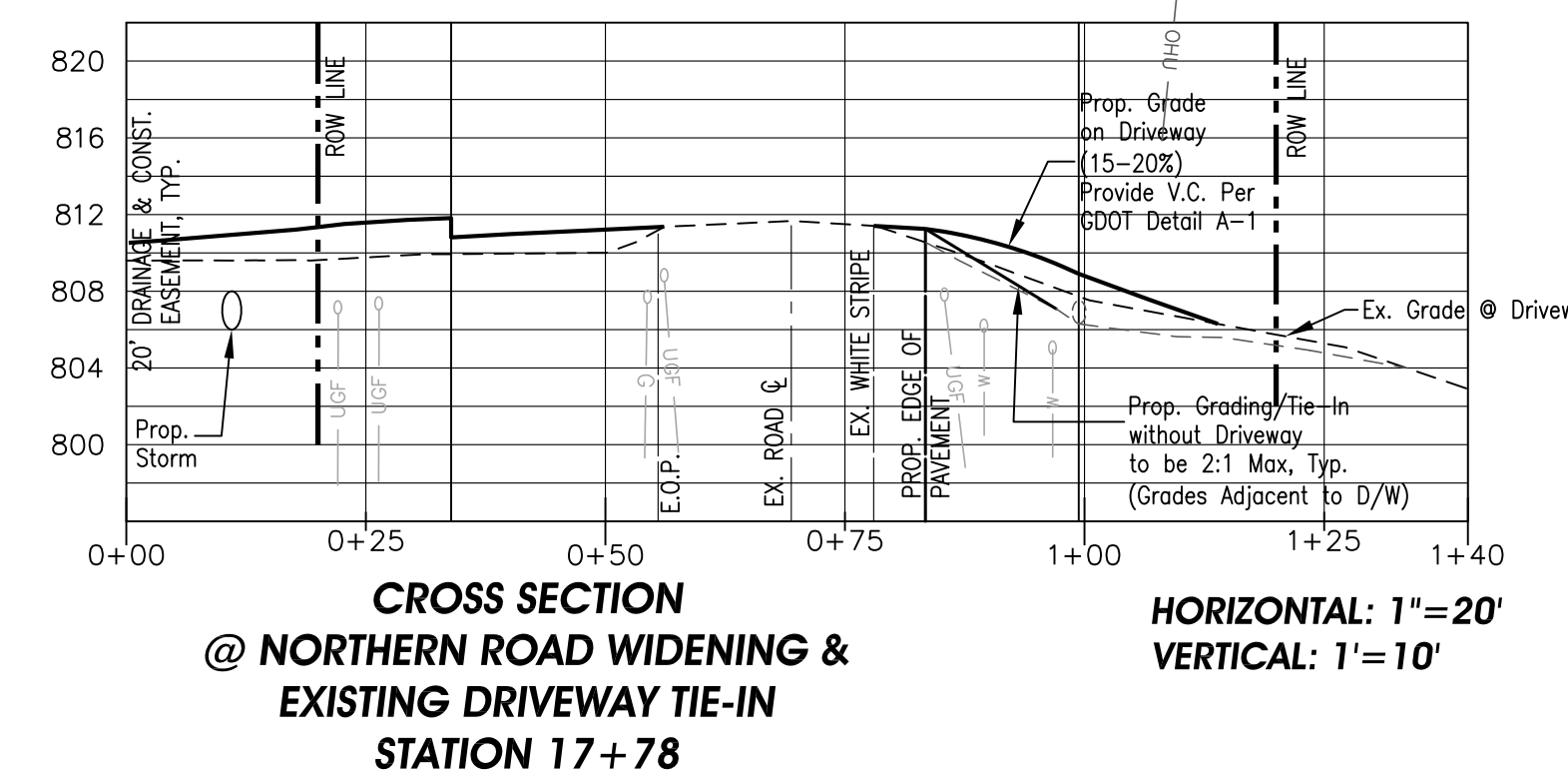


TYPICAL ROADWAY CROSS SECTION & UTILITY LOCATION FOR VM OSBORNE ROAD (25 MPH) OCONEE COUNTY STANDARDS (RURAL WITH DITCHES)



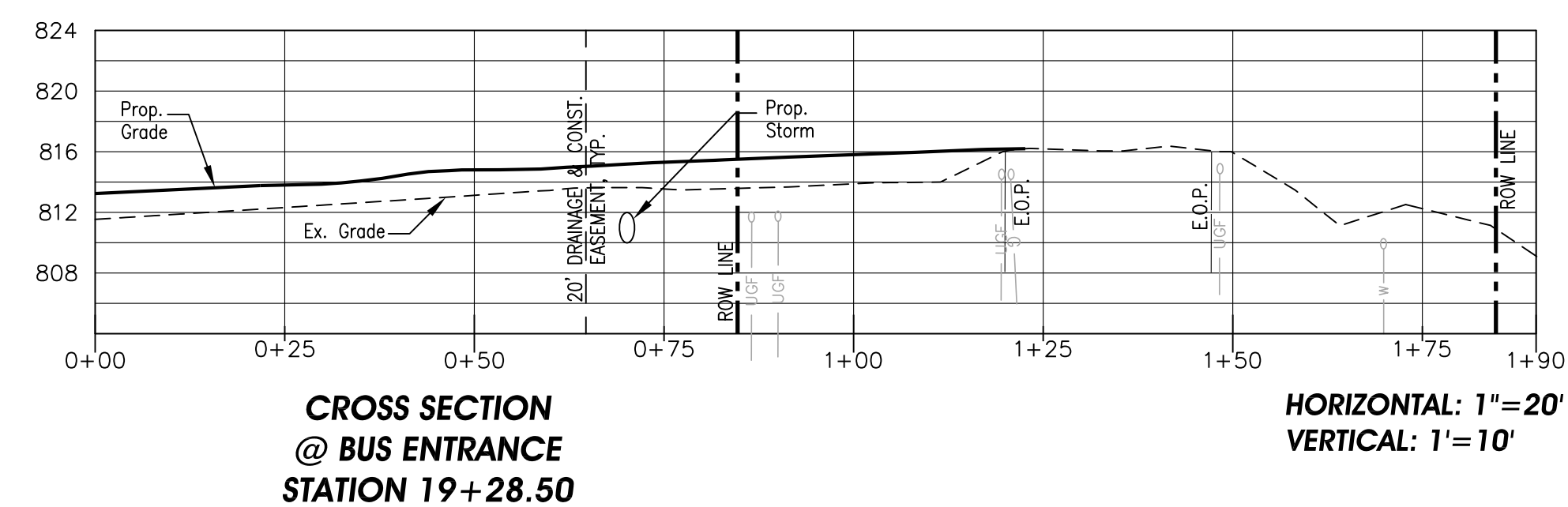
NTS

ABE



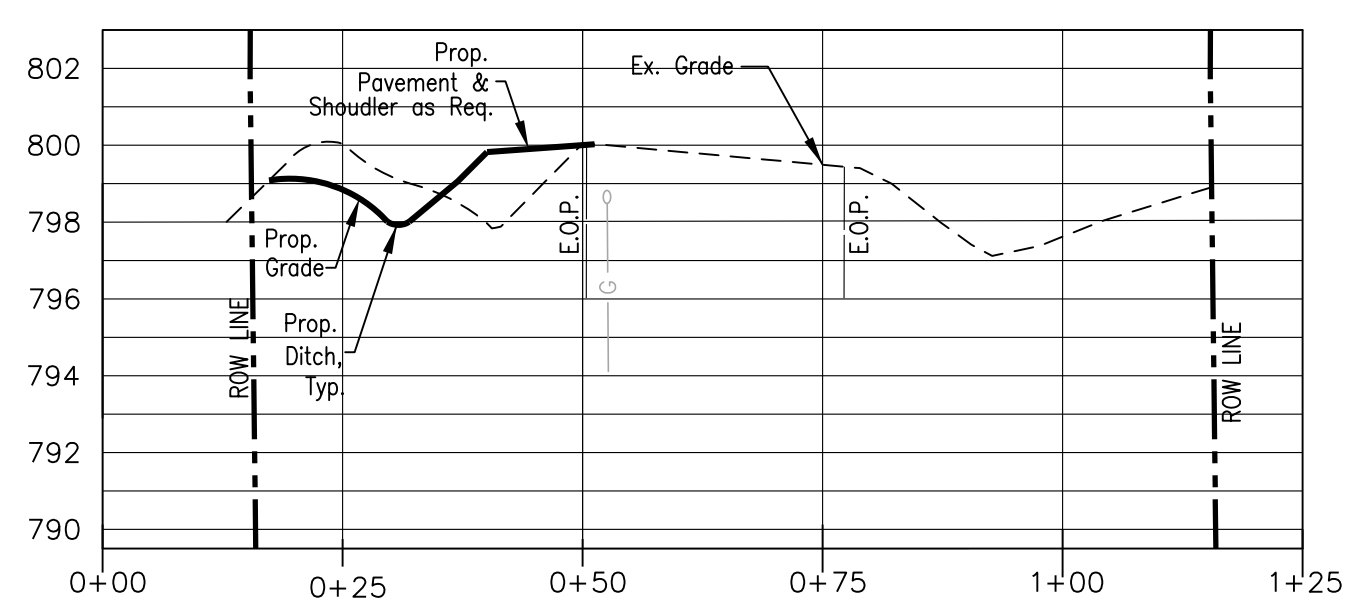
CROSS SECTION @ NORTHERN ROAD WIDENING & EXISTING DRIVEWAY TIE-IN STATION 17+78

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



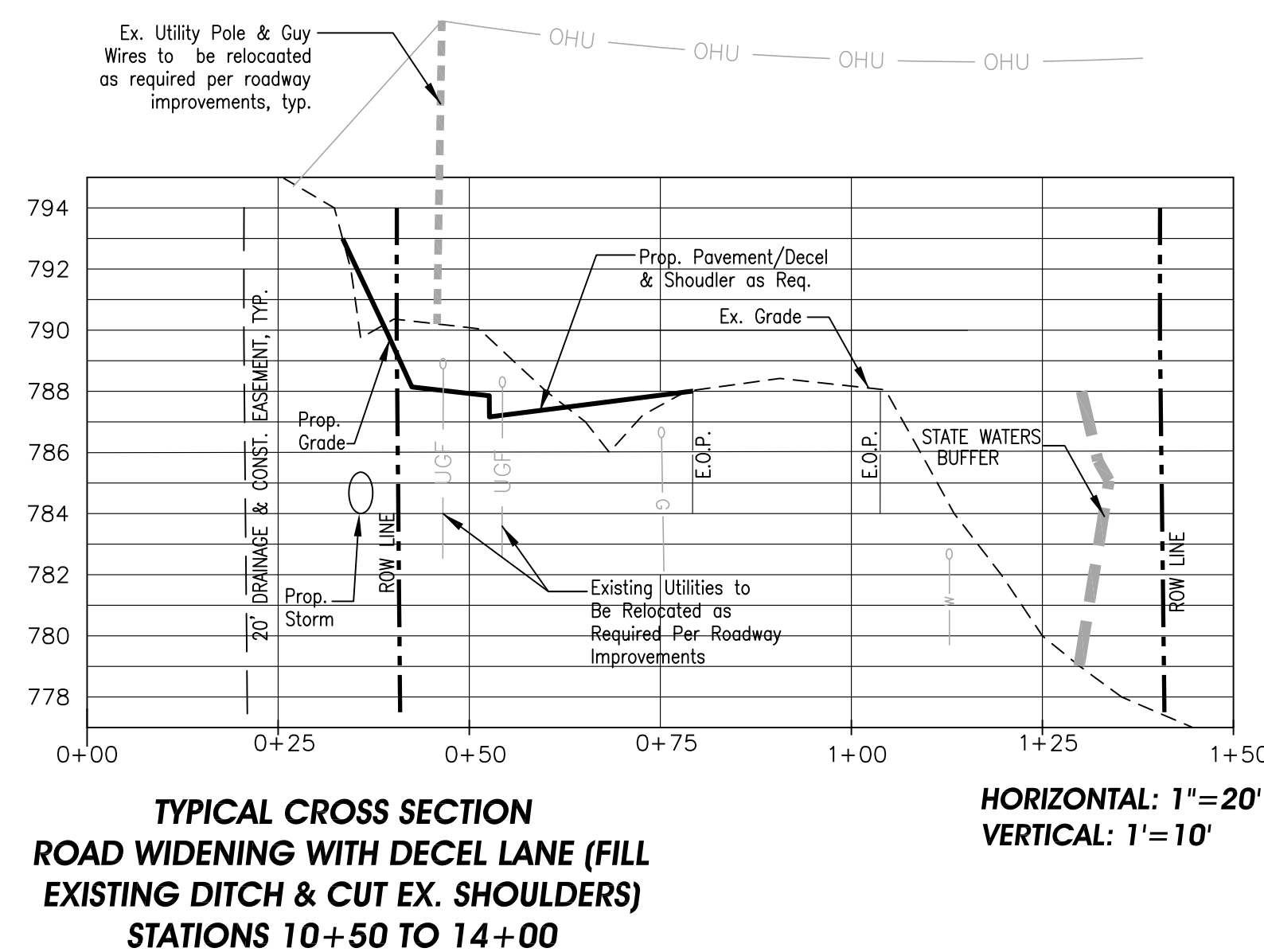
CROSS SECTION @ BUS ENTRANCE STATION 19+28.50

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



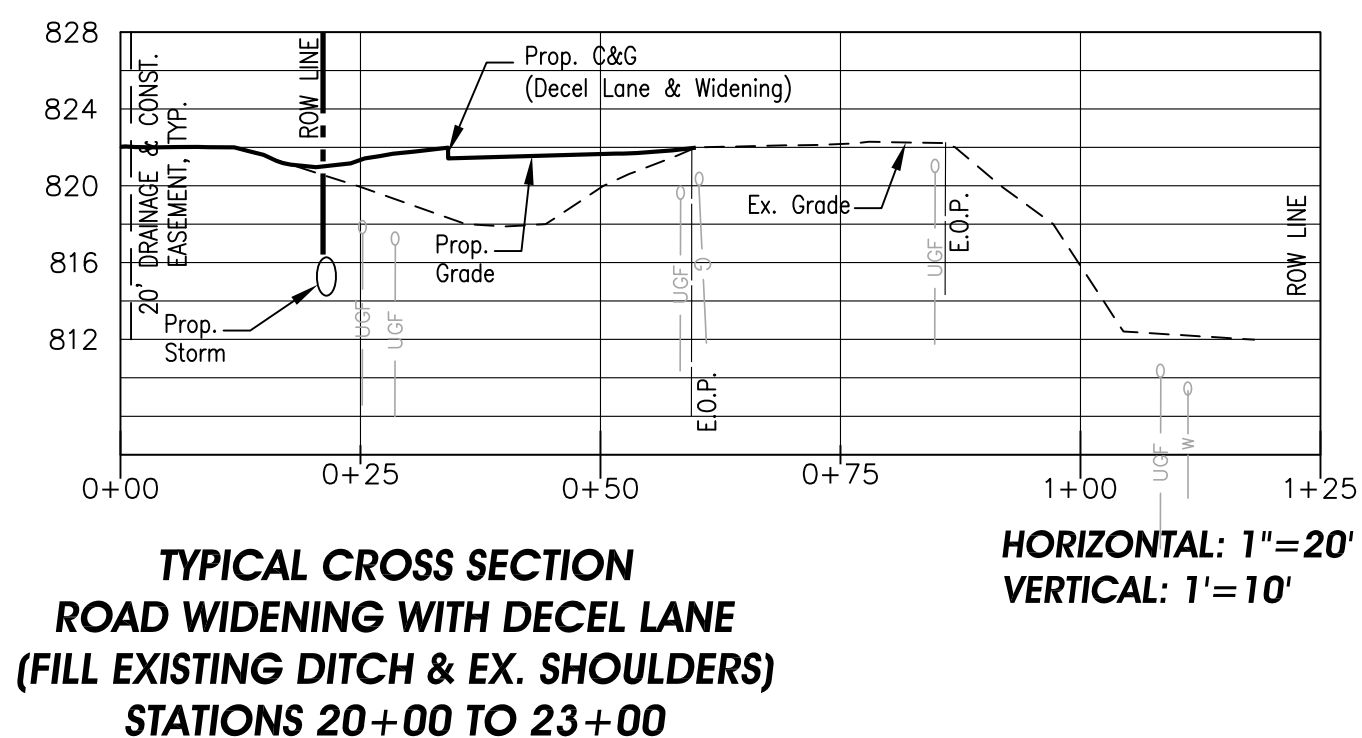
TYPICAL CROSS SECTION ROAD WIDENING & SHOULDER/ HWY 53 STATION 0+00 TO 4+50

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



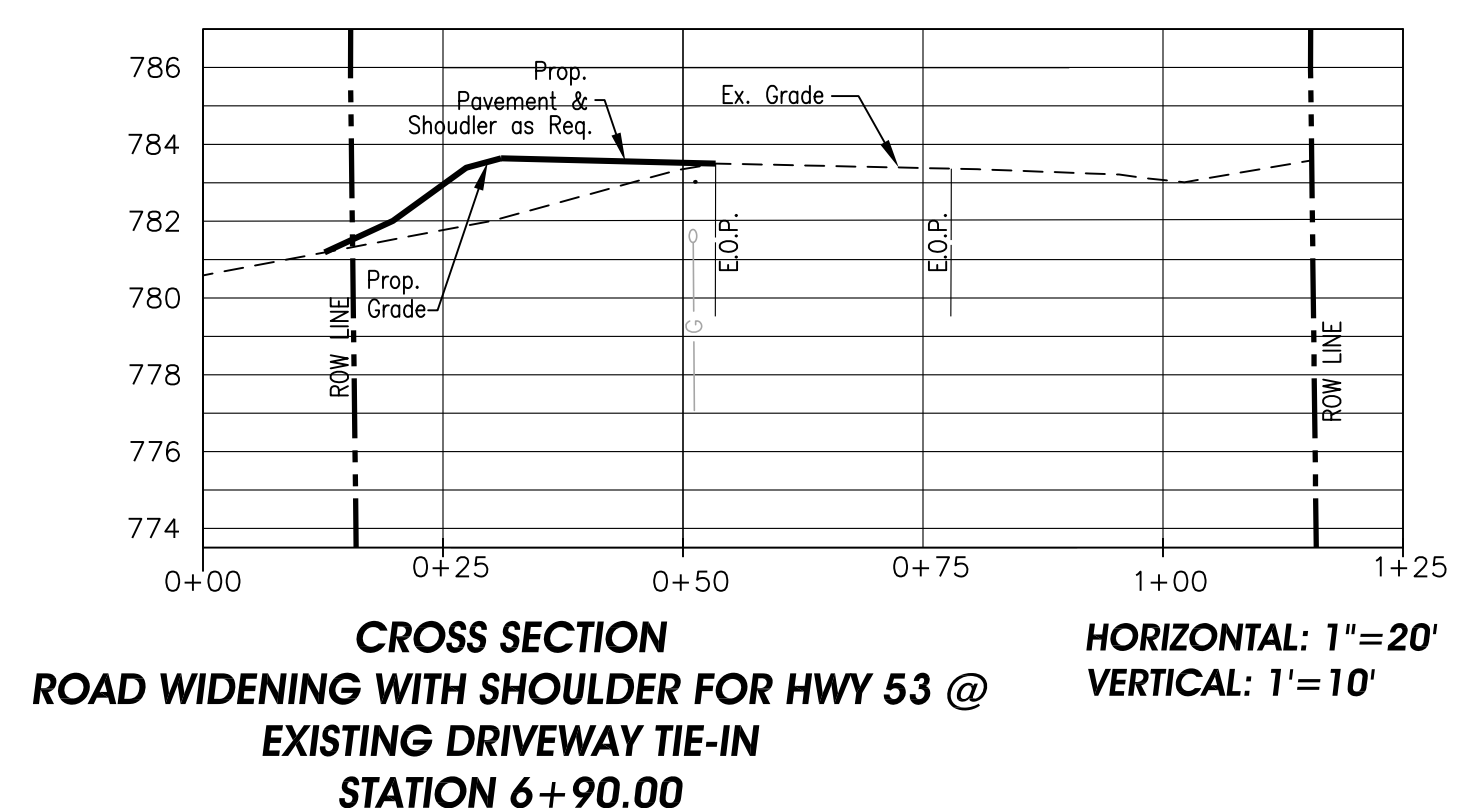
TYPICAL CROSS SECTION ROAD WIDENING WITH DECEL LANE (FILL EXISTING DITCH & CUT EX. SHOULDERS) STATIONS 10+50 TO 14+00

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



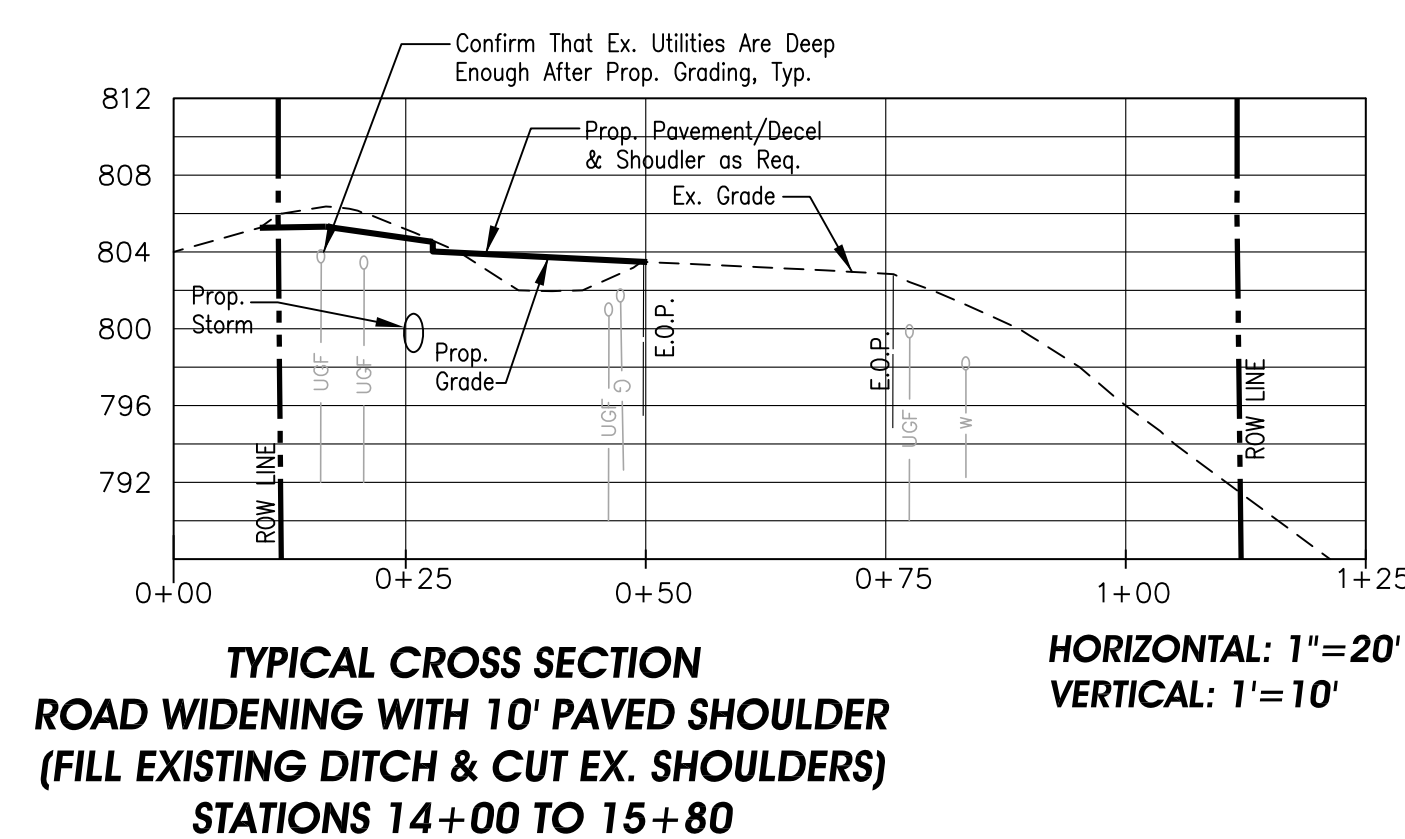
TYPICAL CROSS SECTION ROAD WIDENING WITH DECEL LANE (FILL EXISTING DITCH & EX. SHOULDERS) STATIONS 20+00 TO 23+00

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



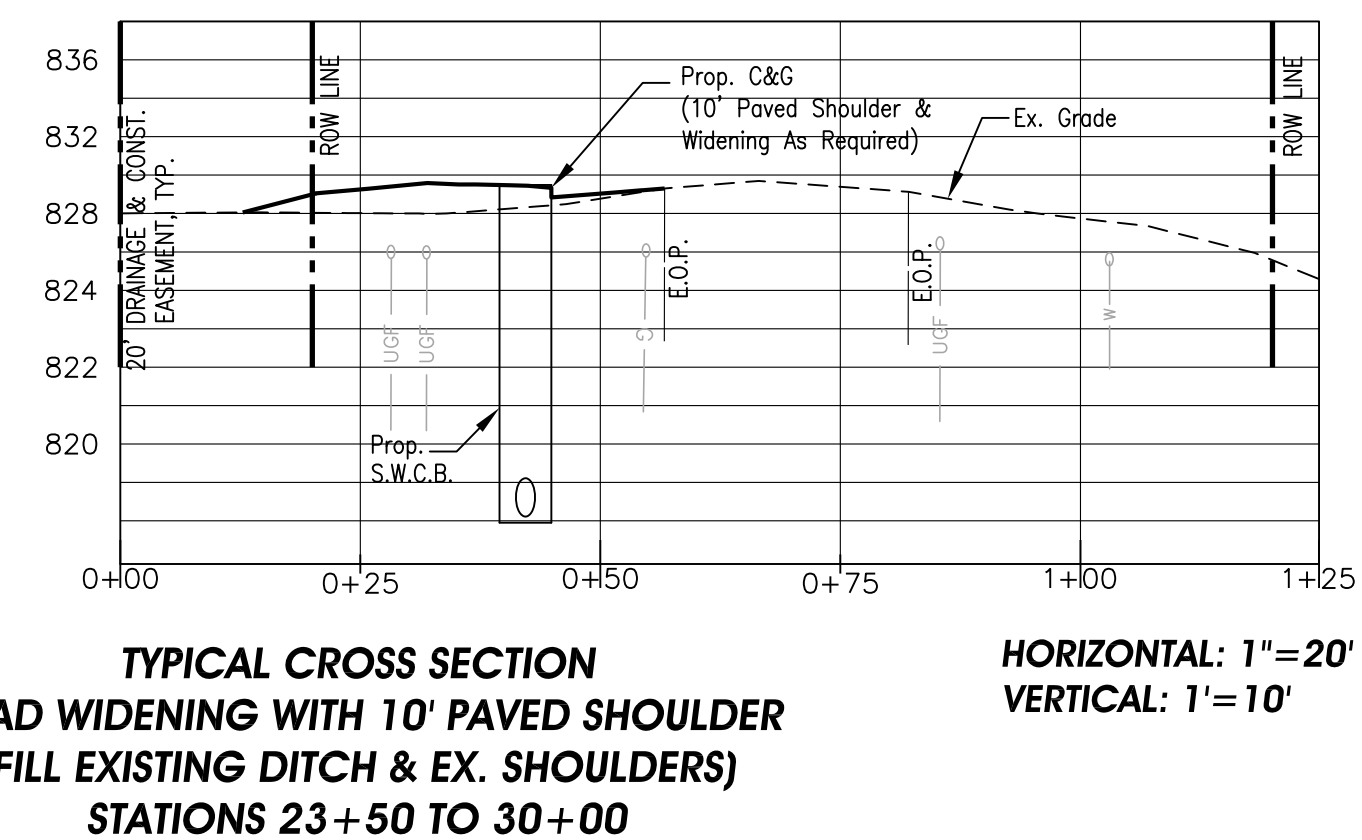
CROSS SECTION ROAD WIDENING WITH SHOULDER FOR HWY 53 @ EXISTING DRIVEWAY TIE-IN STATION 6+90.00

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



TYPICAL CROSS SECTION ROAD WIDENING WITH 10' PAVED SHOULDER (FILL EXISTING DITCH & CUT EX. SHOULDERS) STATIONS 14+00 TO 15+80

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



TYPICAL CROSS SECTION ROAD WIDENING WITH 10' PAVED SHOULDER (FILL EXISTING DITCH & EX. SHOULDERS) STATIONS 23+50 TO 30+00

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



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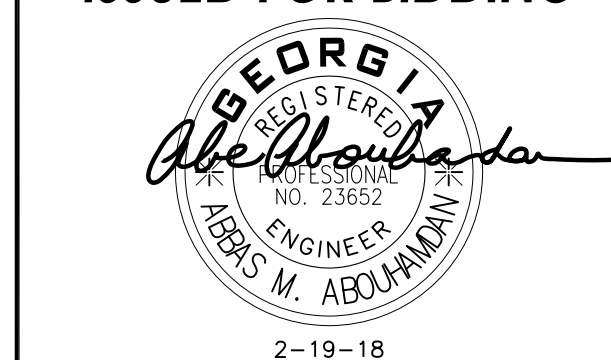
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GDOT CROSS SECTIONS & VM OSBORNE ROADWAY CROSS SECTION

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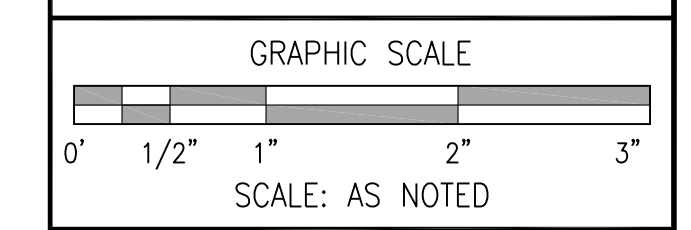
CONC. TRANSITION COLLAR DETAILS

ISSUED FOR BIDDING

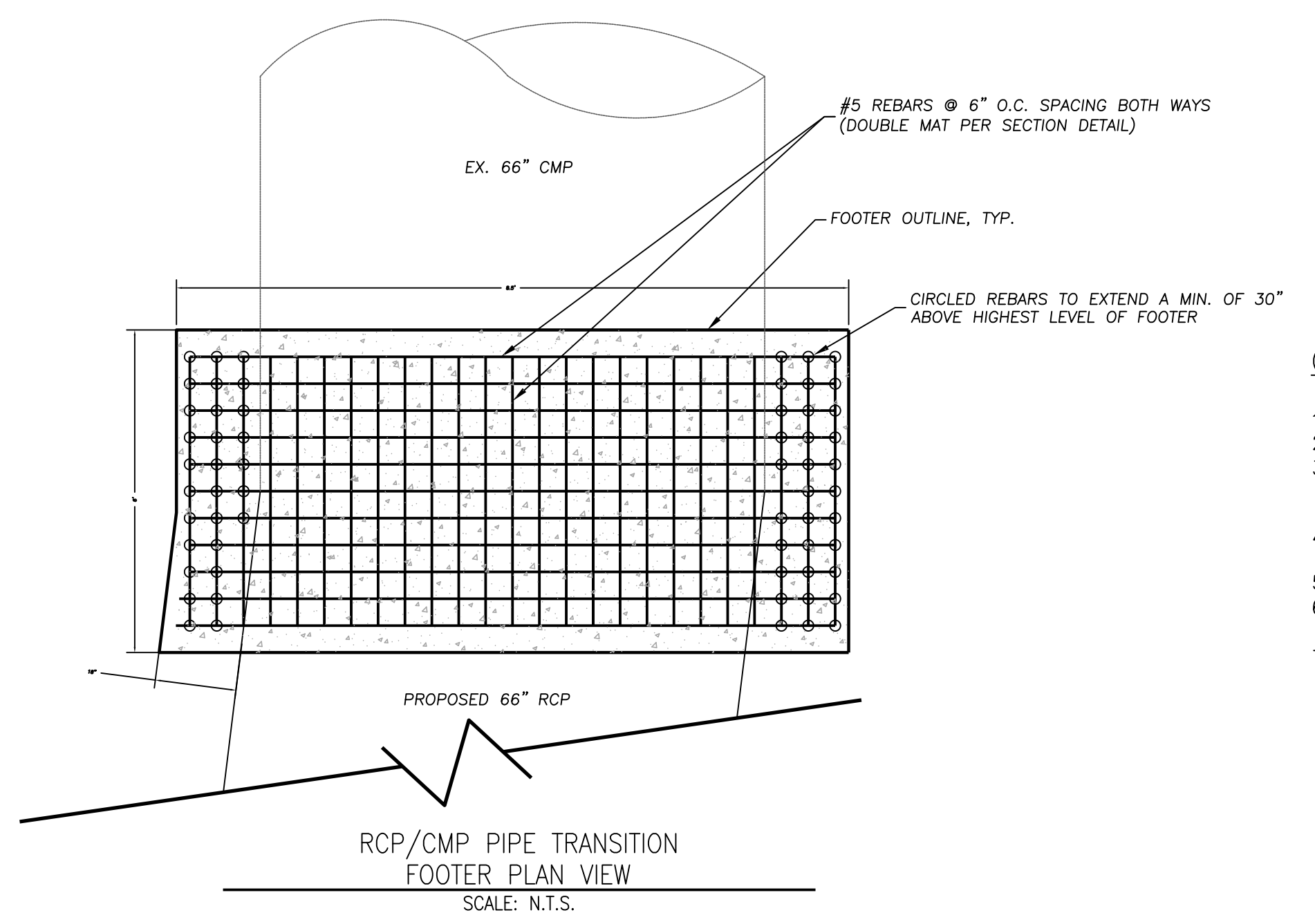
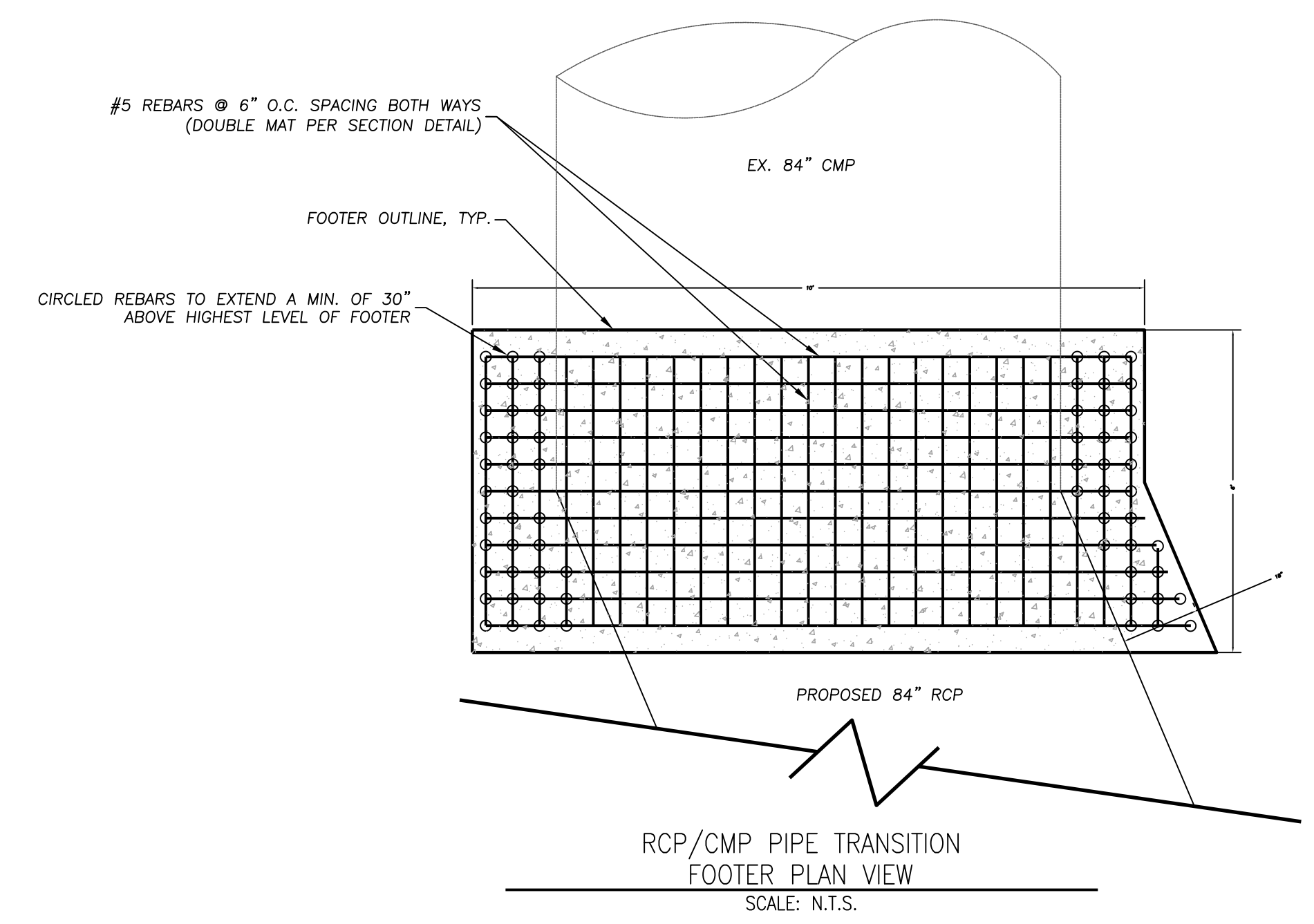
REGISTERED PROFESSIONAL ENGINEER
 ABE M. ABOLHADI
 NO. 23652
 2-19-18

REVISIONS	DATE

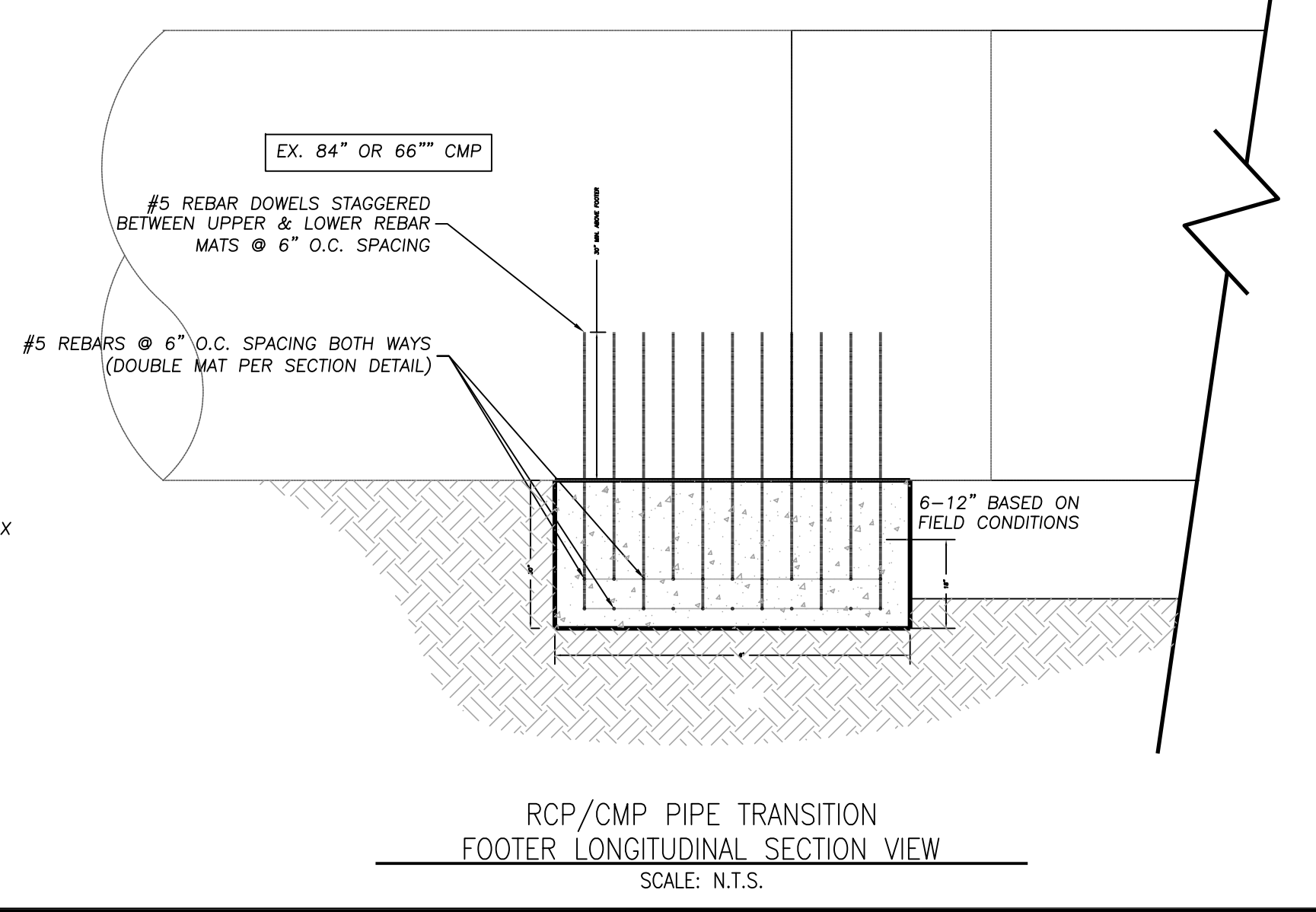
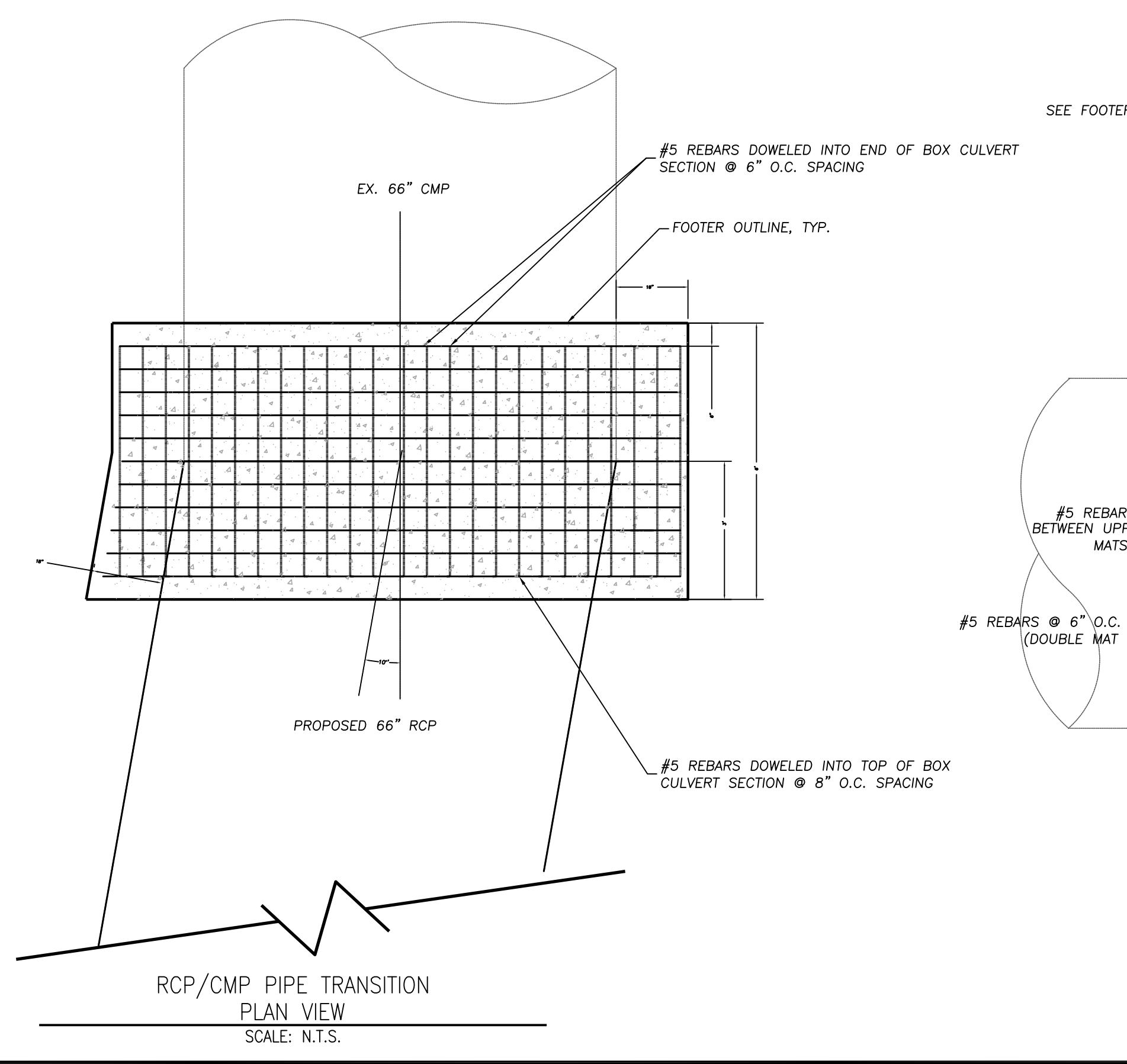
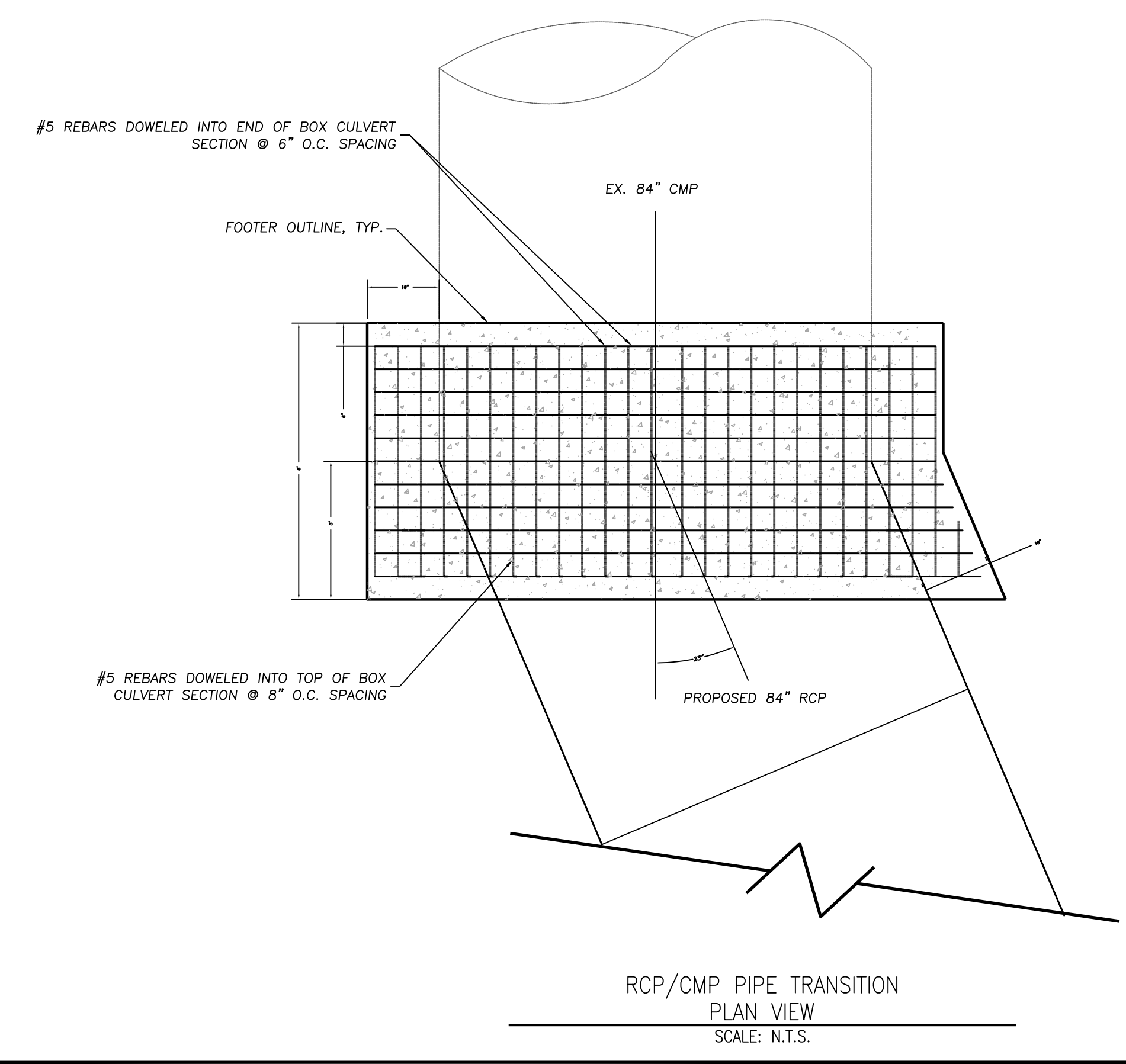
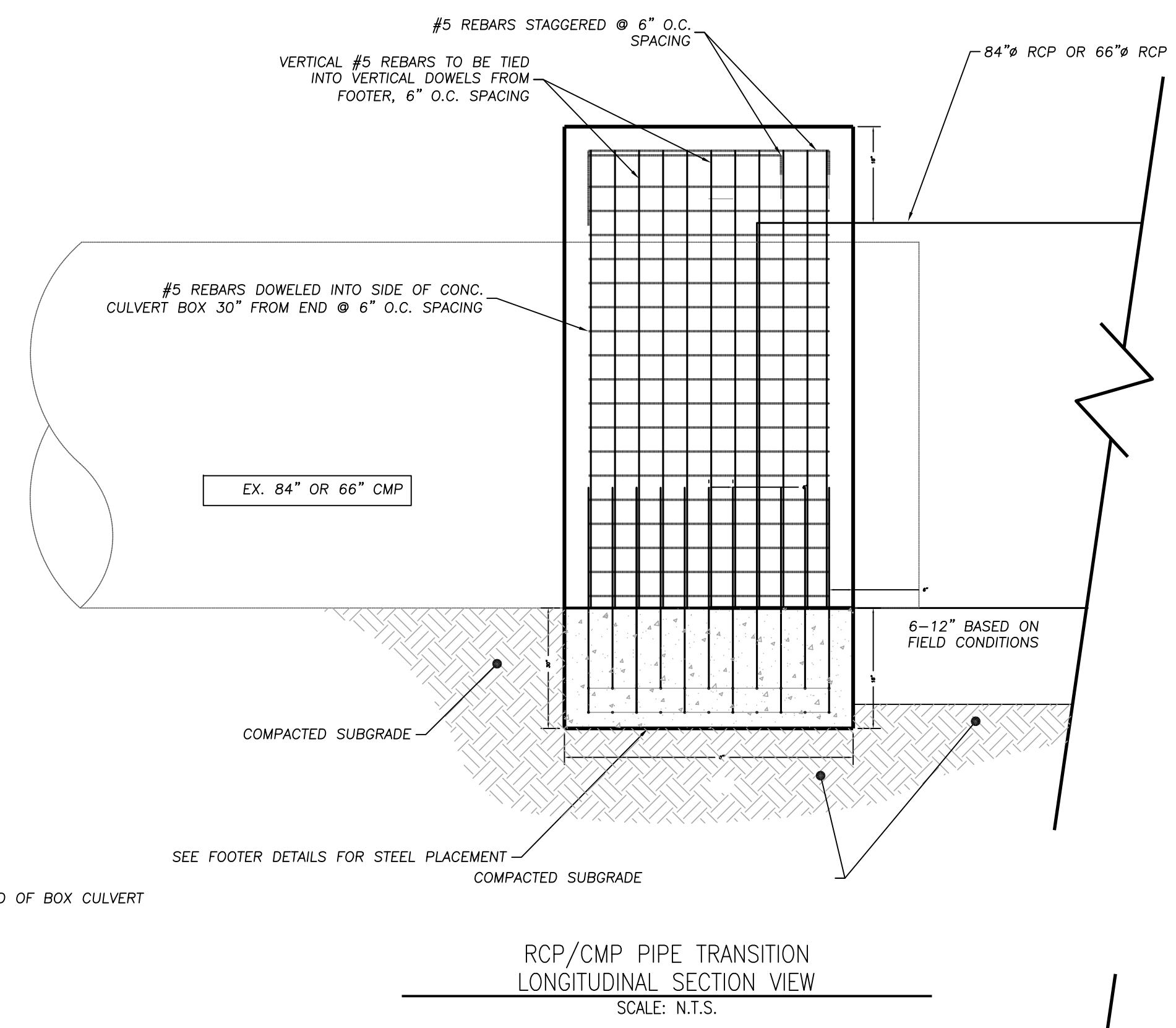
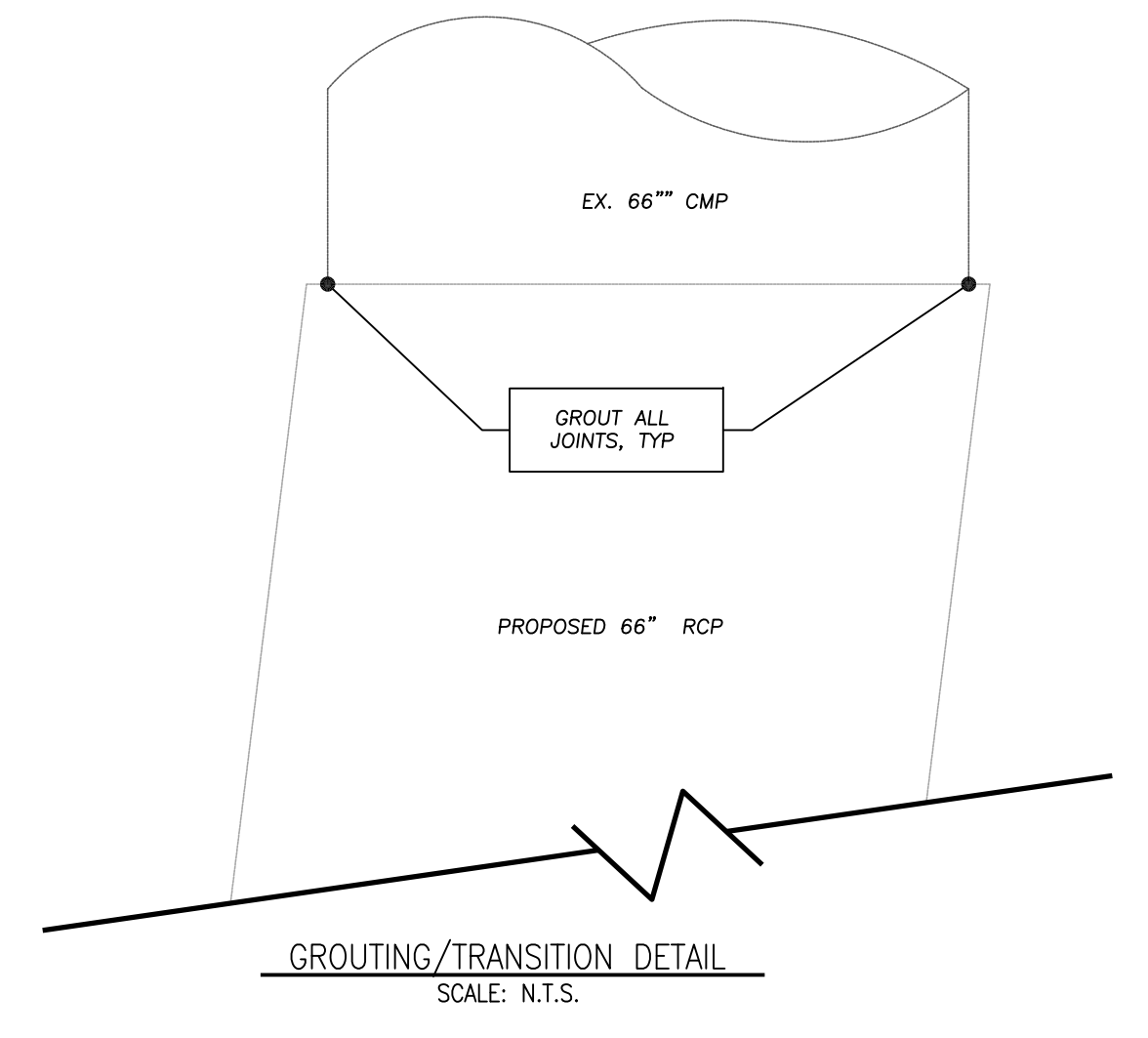
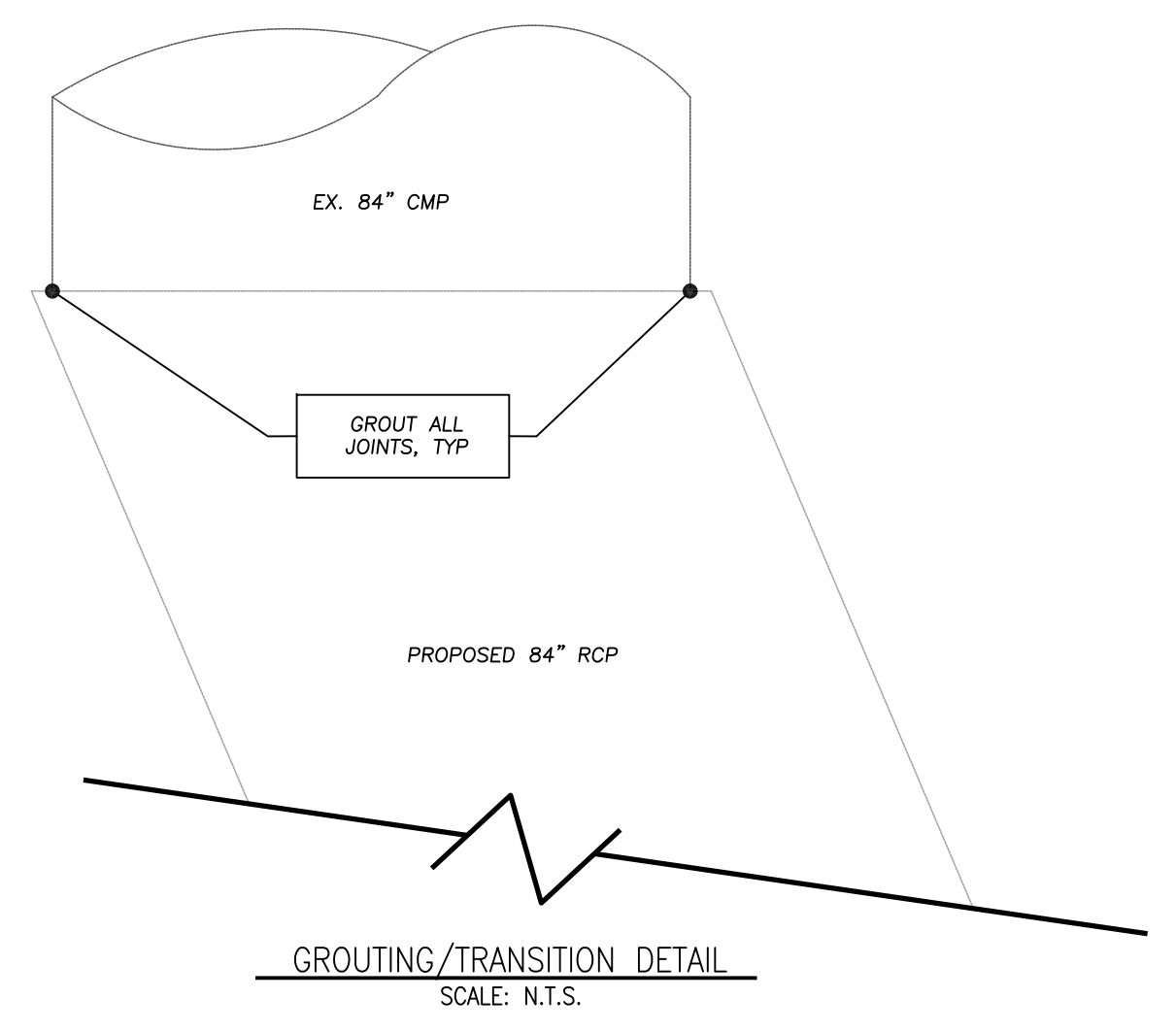
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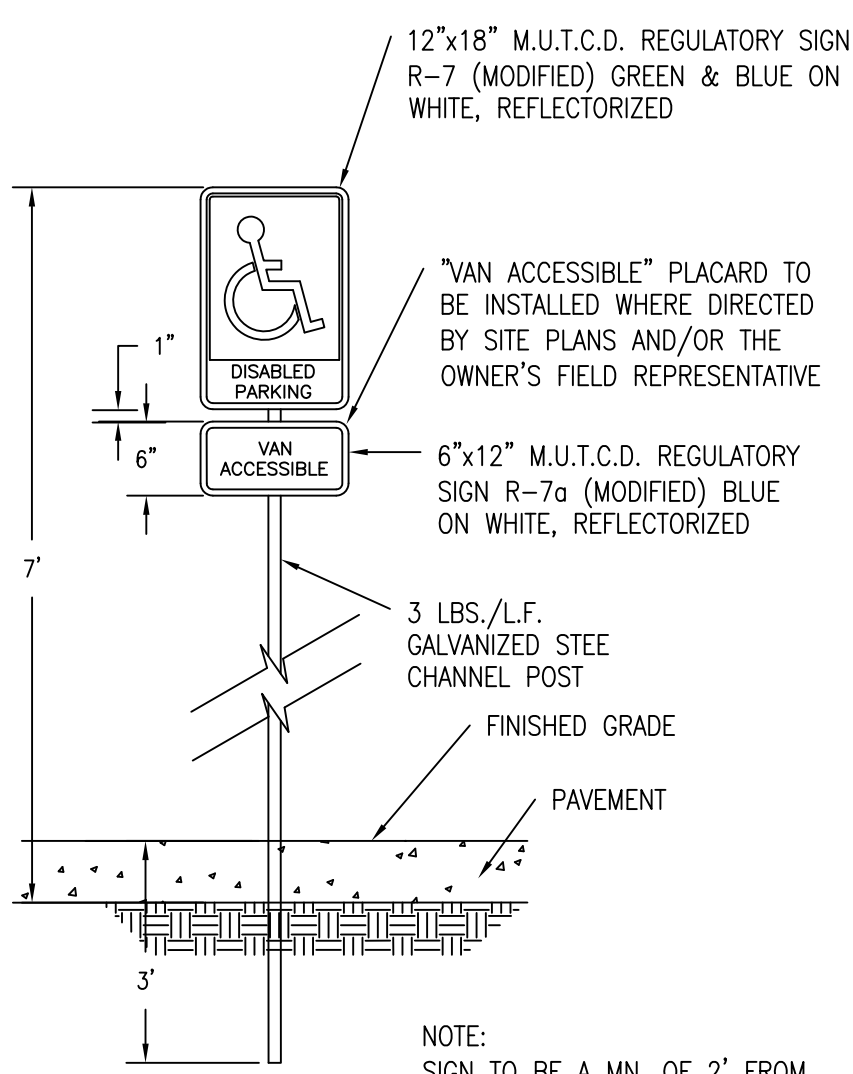


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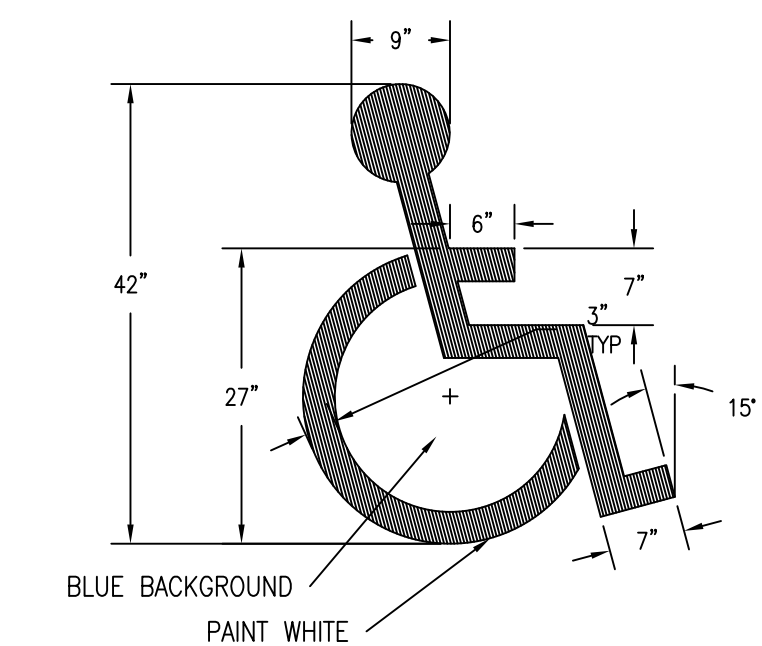


- GENERAL NOTES:**
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI @ 28 DAYS.
 2. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 615, GRADE 60.
 3. PROVIDE EXPANSION JOINTS AS SHOWN ON DETAILS/PLANS. INSTALL JOINT WITH PREMOLDED JOINT FILLER RECESSED 1/2" BELOW FINISH GRADE & APPLY NON-SHRINKING SEALANT OVER THE JOINT ON THE EXPOSED SIDE.
 4. FINE BROOM FINISH SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES TO PROMOTE NONSKID SURFACE.
 5. ASSUMED BEARING CAPACITY OF SOIL= 2,500 PSF
 6. ALL REINFORCING STEEL SHALL HAVE A MIN. OF 2-1/2" CLEARANCE EXCEPT AT BOTTOM OF FOOTING CLEARANCE SHALL BE 3".
 7. ALL EXPOSED CORNERS OF WALL SHALL BE ROUNDED WITH MIN. 1/2" CHAMFER.

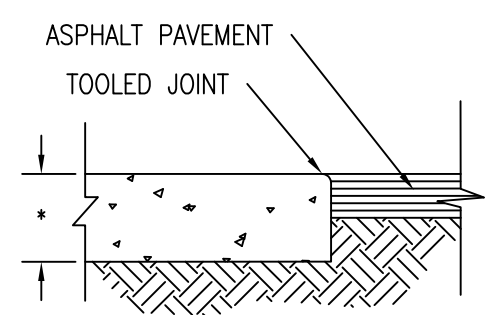




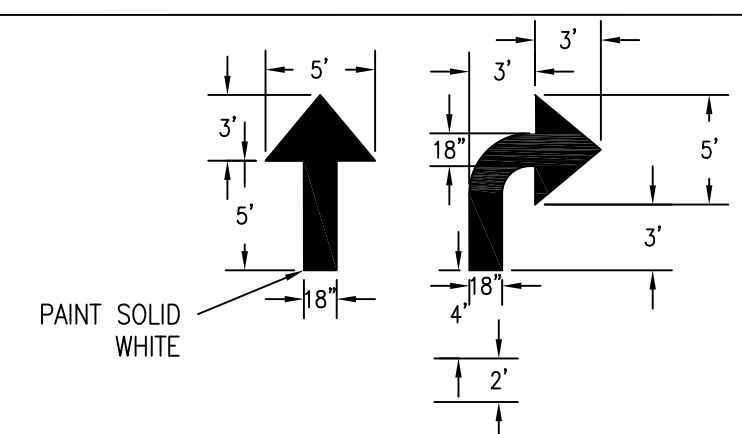
12 "HANDICAP PARKING ONLY" SIGN
SD-1.1 NOT TO SCALE



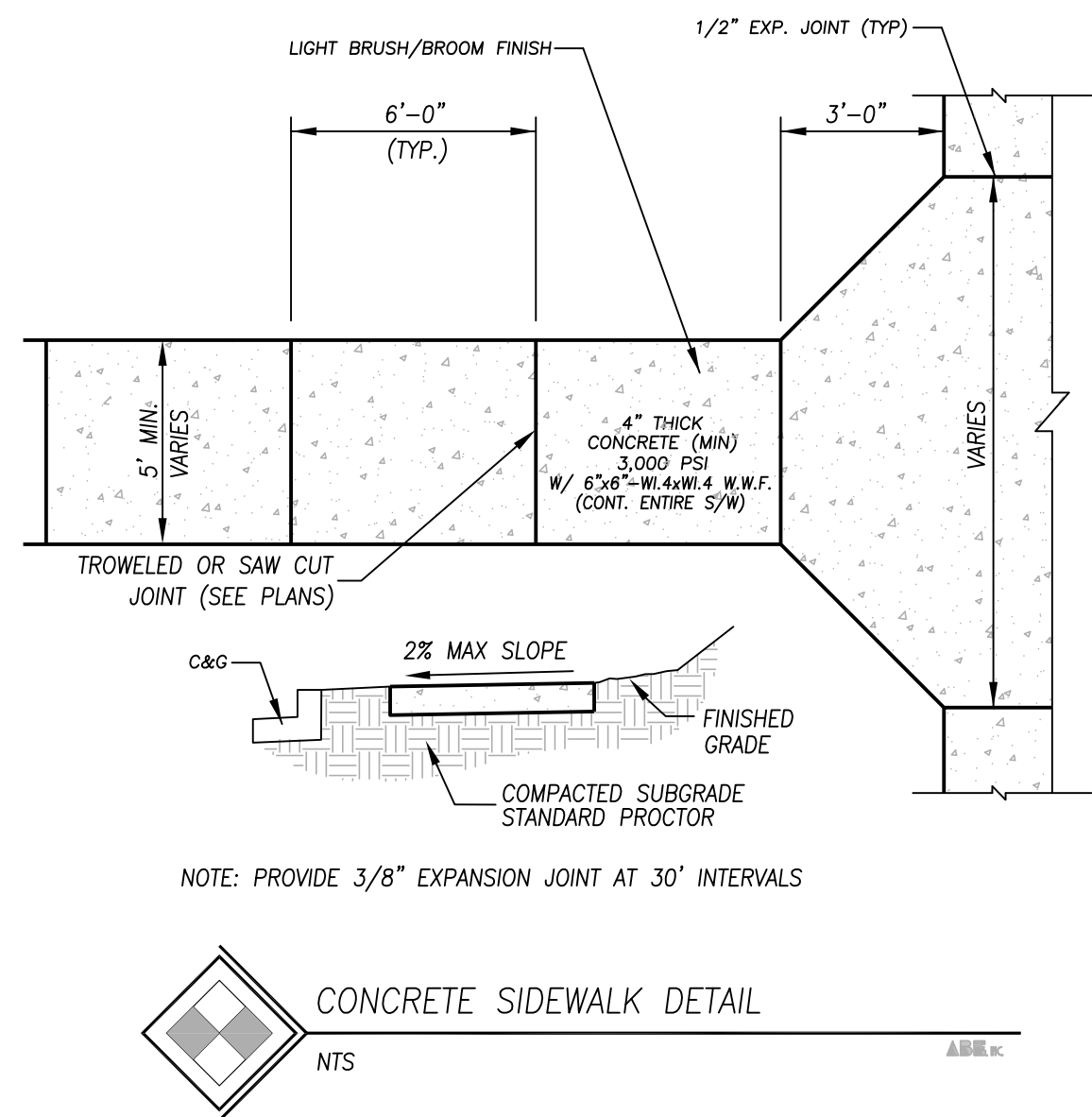
13 PAINTED HANDICAPPED PARKING SYMBOL
SD-1.1 NOT TO SCALE



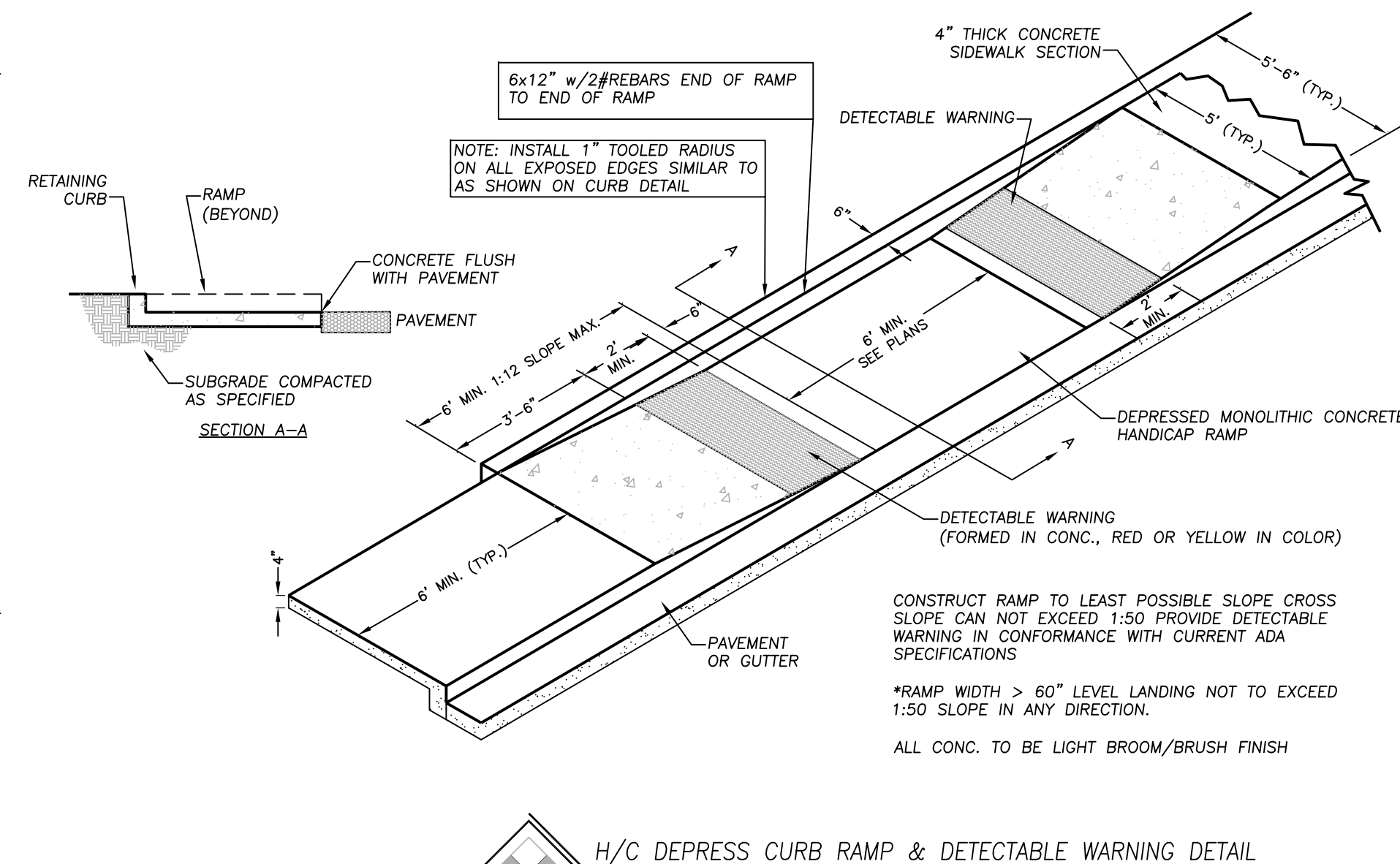
14 TERMINAL JOINT W/ ASPHALT PAVEMENT
SCALE



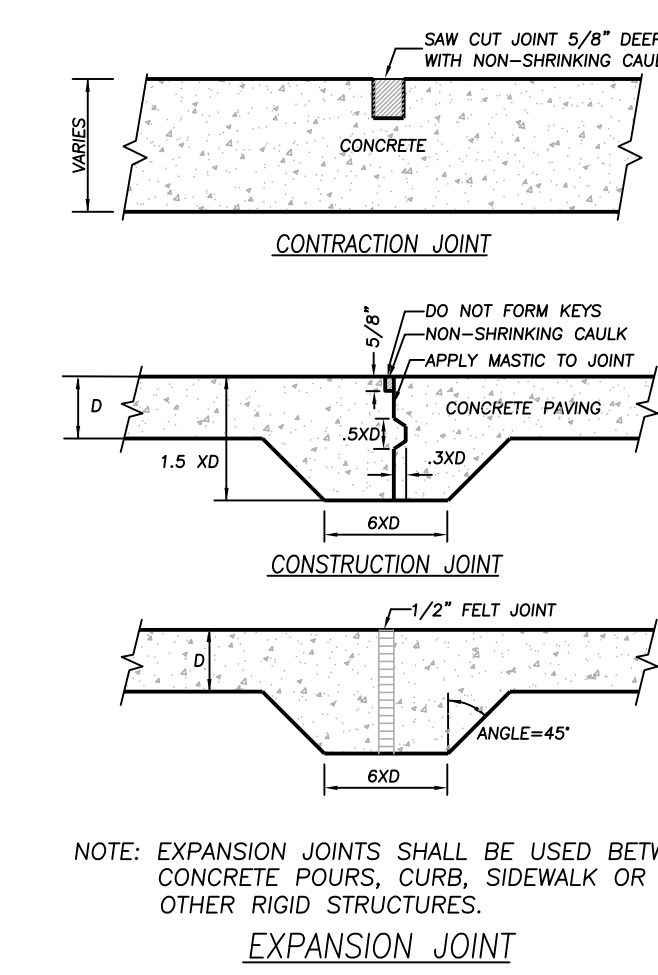
15 TYPICAL PAVEMENT MARKING
SD-1.1 NOT TO SCALE



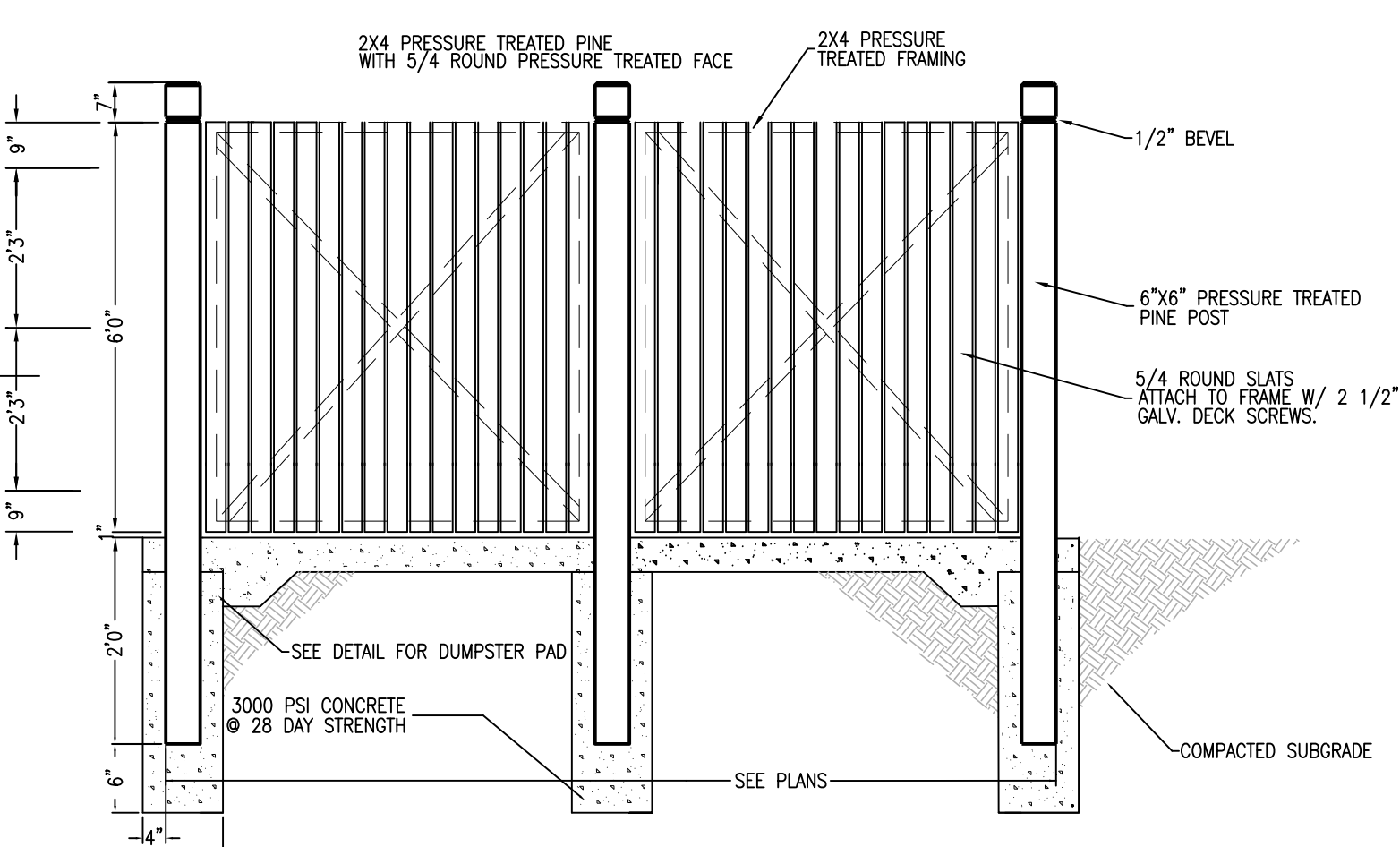
CONCRETE SIDEWALK DETAIL
NTS



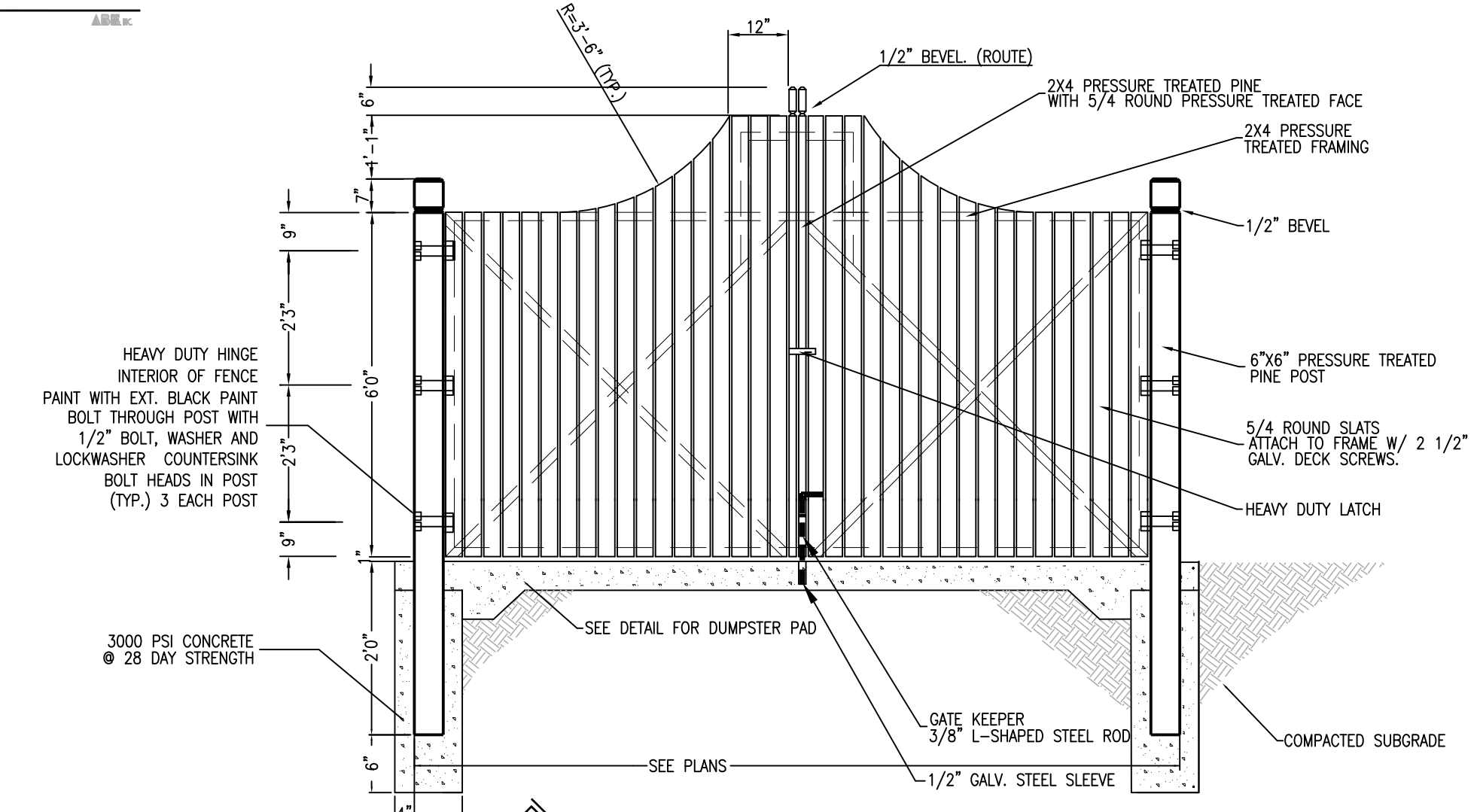
H/C DEPRESS CURB RAMP & DETECTABLE WARNING DETAIL
NTS



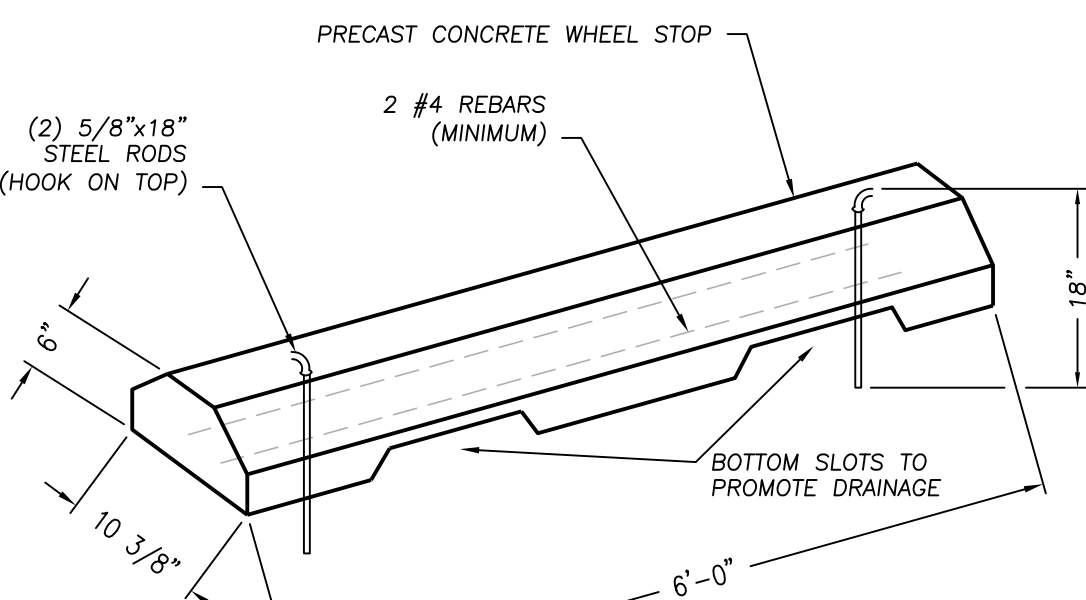
CONCRETE JOINT DETAILS
NTS



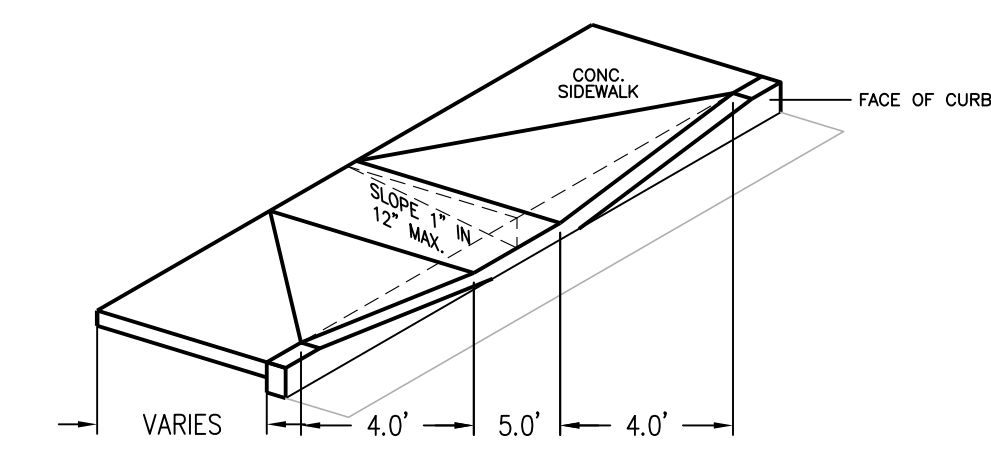
SIDE FENCE DETAIL - DUMPSTER PAD
NTS



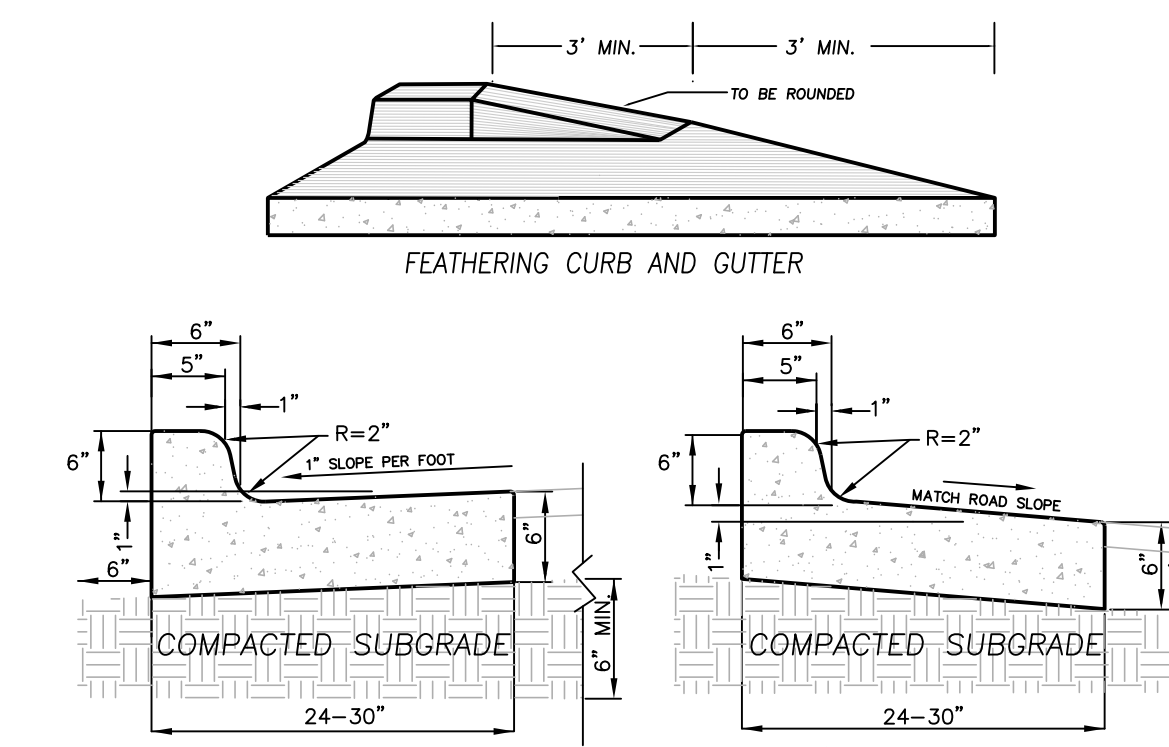
FRONT GATE DETAIL - DUMPSTER PAD
NTS



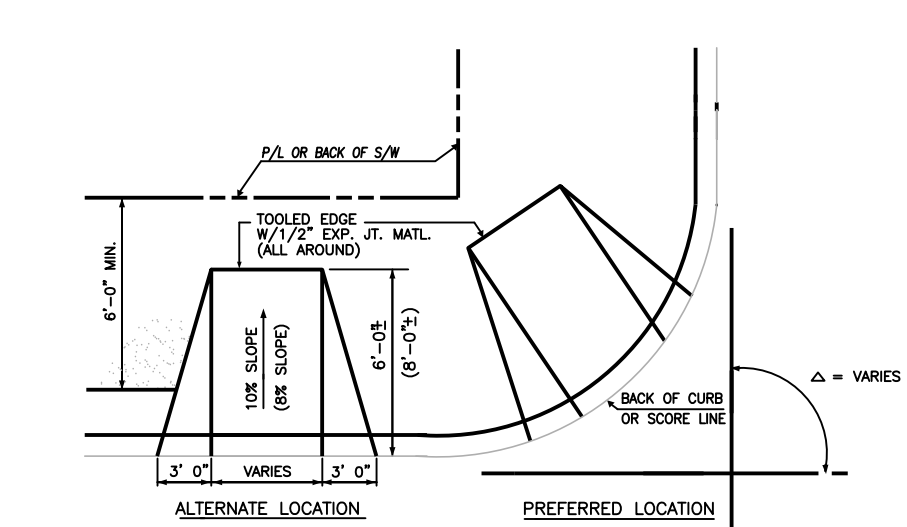
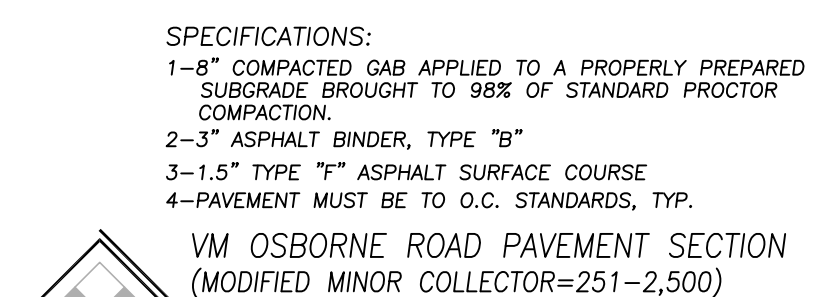
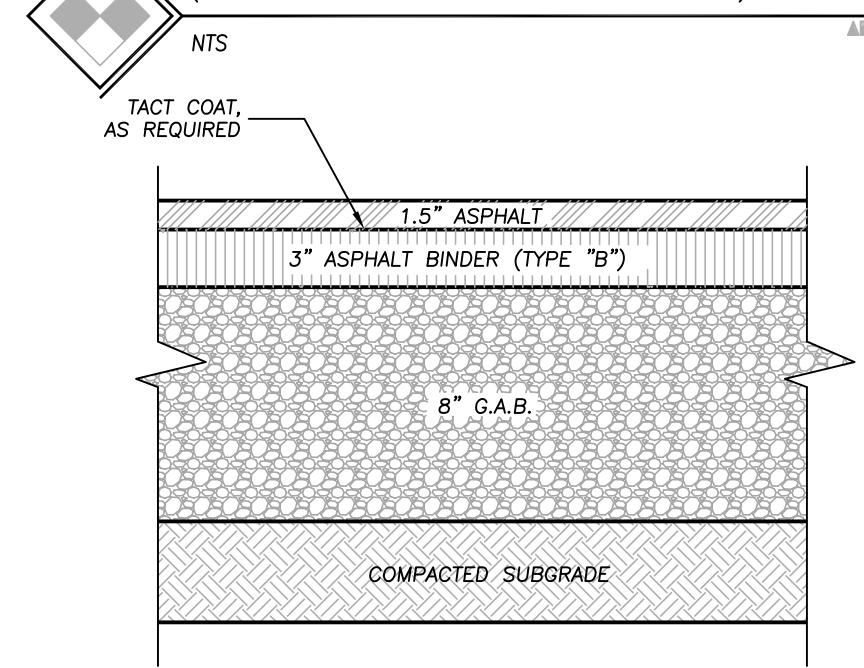
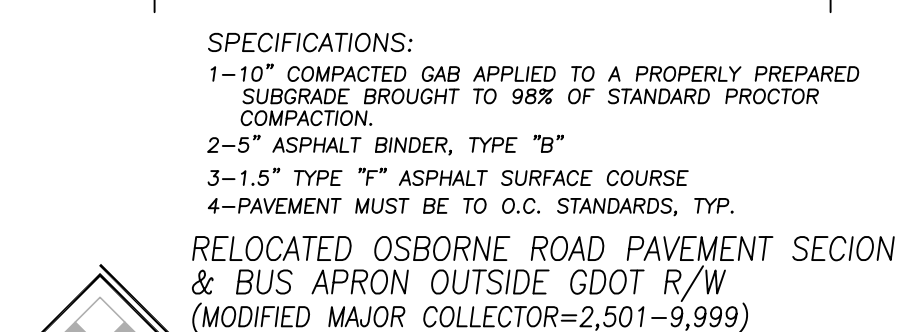
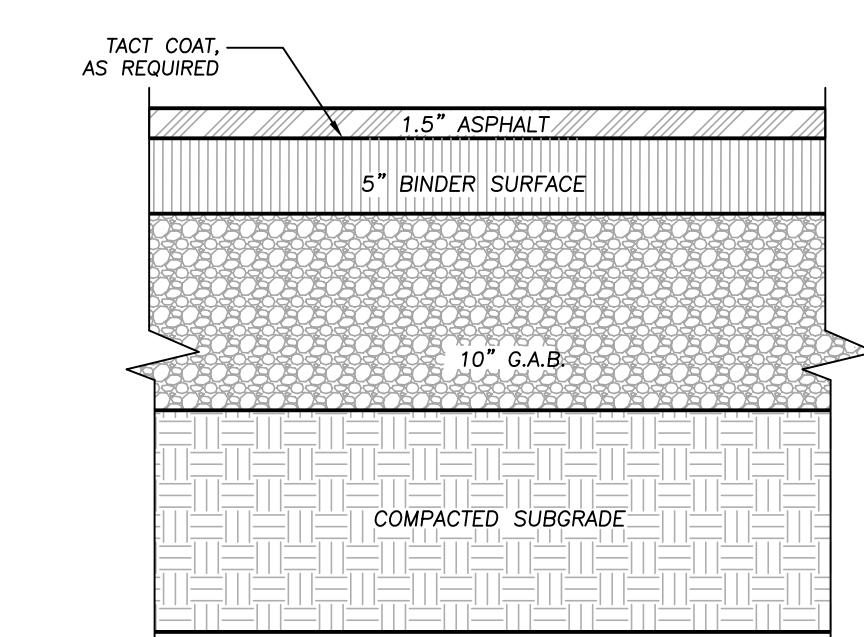
CONCRETE WHEEL STOP
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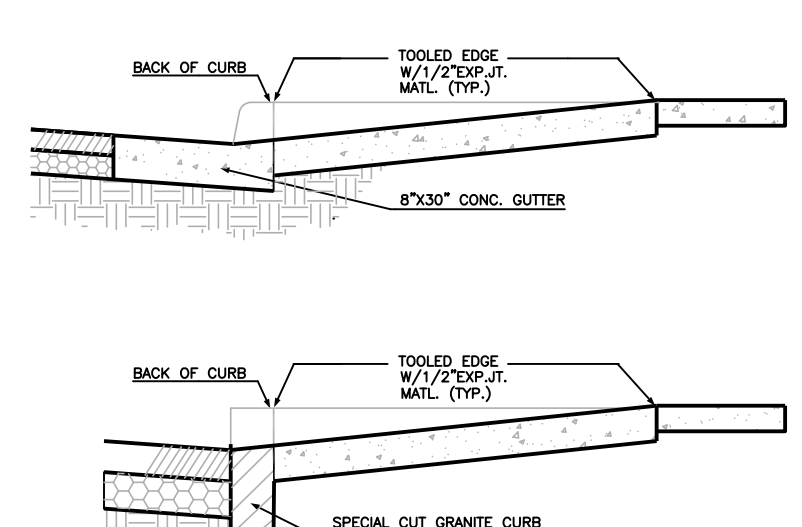
FLARED HANDICAP RAMP
NTS



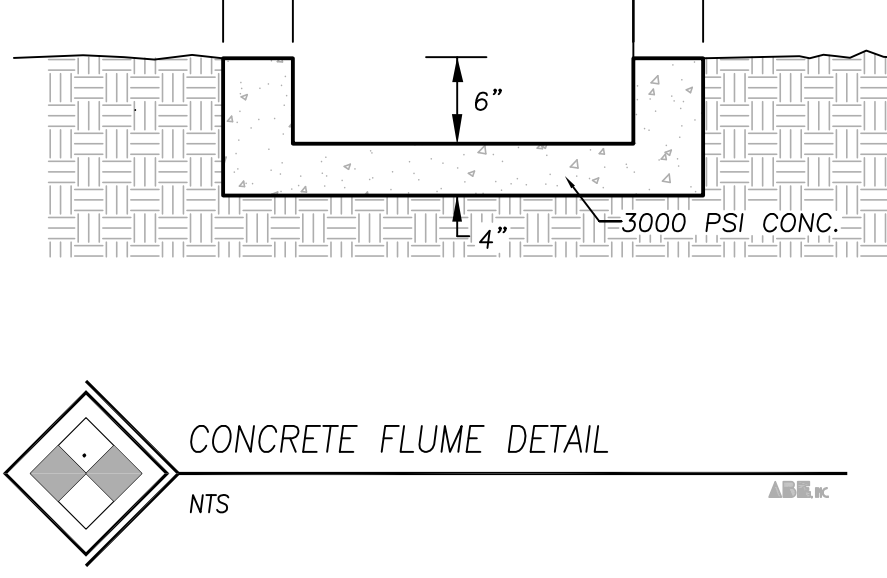
24" CONCRETE CURB AND GUTTER
NTS



STANDARD WHEELCHAIR RAMP
NTS



CONCRETE FLUME DETAIL
NTS



30" VALLEY GUTTER
NTS



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2410 HOG MOUNTAIN ROAD
 SUITE 103
 WATKINSVILLE, GA 30677
 706-613-8900
 706-425-9631 (FAX)
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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

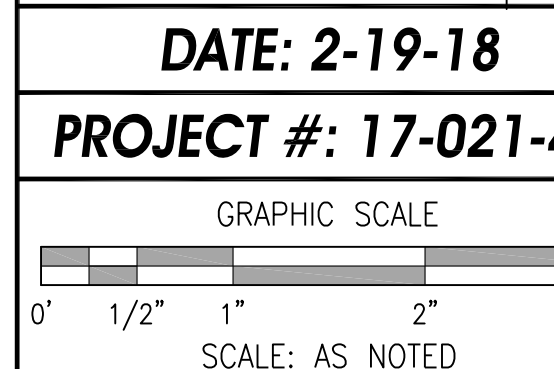
CONSTRUCTION DETAILS

ISSUED FOR BIDDING



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