

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

Project Name: Parkway Boulevard Extension Address: Proposed Route From Oconee Connector to Parkway Blvd.
City/County: Oconee County Date on Plans: October 21, 2015

Plan Page #	Included	Y/N
1	Y	
1.13-22 24.25	Y	
11-22 1.24	Y	
1.13-22 1.15-22	Y	
1.11 13.15 17.23.24	Y	
11.822	Y	
ALL	Y	
24	Y	
1	Y	
11.13 24	Y	
1.11-22	Y	
24	Y	
24	Y	
24	Y	
11-22	Y	
11-22	Y	
11-22	Y	
N	N/A	
N	N/A	
11.14.15 18.8.24	Y	
11.14.15 18.15.22 24	Y	
15-25 8.29	Y	
11-22 24.25.29	Y	
25	Y	
24	Y	
24	Y	
24	Y	
1.8.11-22	Y	
11-22 24.25	Y	
3-23 30.31	Y	
11-23	Y	
N	N/A	
3-7.9-11 13-15 17-19 32.33	Y	
1	Y	
1	Y	
25	Y	
29	Y	
11-22, 24	Y	
11-22	Y	
11-22 24.25	Y	
11-22 24.25	Y	
11-22 24.25	Y	

SITE CONSTRUCTION PLANS

FOR

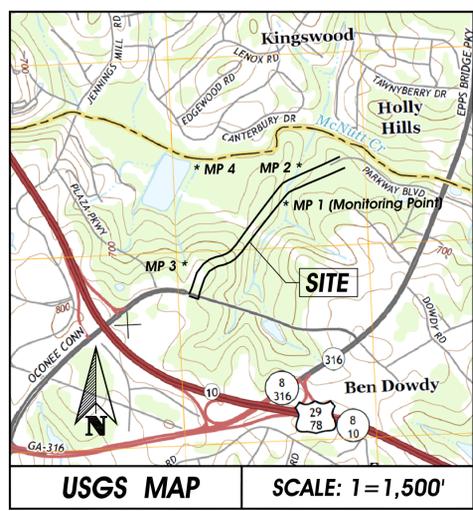
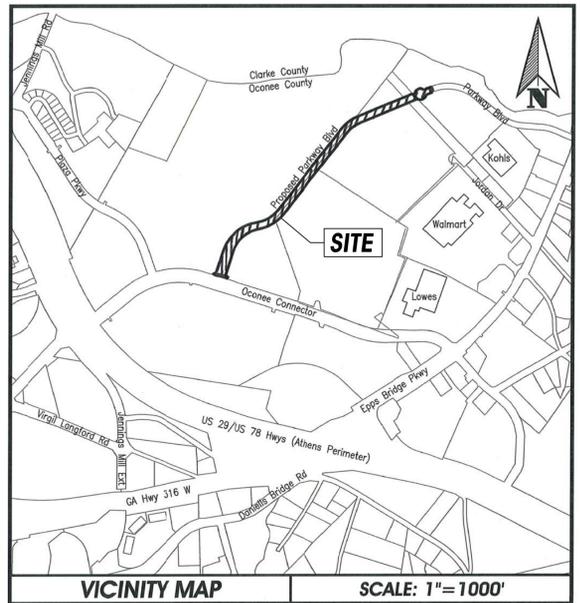
PARKWAY BOULEVARD EXTENSION

OCONEE CONNECTOR TO EXISTING PARKWAY BLVD.

OCONEE COUNTY, GA

TOTAL PROPOSED RIGHT OF WAY ACREAGE: ± 8.38 ACS

TOTAL DISTURBED ACREAGE: 19.45 ACS



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**OWNER / DEVELOPER /
PRIMARY PERMITTEE:**
OCONEE COUNTY PUBLIC WORKS DEPARTMENT
C/O MR. EMIL BESHARA, PE
1291 GREENSBORO HWY.
WATKINSVILLE, GA 30677
PHONE: 706-769-2937

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

GDOT UTILITY NOTES:
1. ALL UTILITY RELOCATIONS REQUIRED BY THIS PROJECT THAT ARE ON A STATE ROUTE MUST BE PERMITTED THROUGH THE GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
2. ALL UTILITIES RELOCATED AND/OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE GDOT UTILITY MANUAL, CURRENT EDITION.
3. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
4. SINCE PROPOSED WORK IS WITHIN 1000 FT OF GDOT TRAFFIC SIGNAL A SEPARATE LOCATE REQUEST IS REQUIRED.

UTILITY OWNERS:
-WATER/SANITARY SEWER: OCONEE COUNTY UTILITY DEPT.
-OVERHEAD POWER: WALTON EMC/GA. POWER
-GAS LINE: ATLANTA GAS LIGHT CO.
-TELECOM/DATA: AT&A
-TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS
-TRAFFIC SIGNAL WIRING/DATA: GDOT

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

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

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

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

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

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

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

REQUIRED PAVEMENT SPECIFICATIONS

1 1/4"	9.5 mm SUPERPAVE
2"	19 mm SUPERPAVE
8"	25mm SUPERPAVE
12"	GRADED AGGREGATE BASE COURSE

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

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

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

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

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

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

ALL TRAFFIC CONTROL SHALL BE INSTALLED & MAINTAINED PER GDOT REQUIREMENTS.

I, ABE ABUHAMDIAN, 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 Abouhadda DATE SIGNED: 10-21-15

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.
SIGNATURE: Abe Abouhadda DATE SIGNED: 10-21-15

THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL NUMBER #0000010490
SIGNATURE: Abe Abouhadda DATE SIGNED: 10-21-15

**CALL ABE CONSULTING, INC. AT
706-613-8900 FOR CONSTRUCTION STAKING.**

PROJECT DATA

OWNER: OCONEE COUNTY PUBLIC WORKS DEPARTMENT
C/O: MR. EMIL BESHARA, PE
1291 GREENSBORO HIGHWAY
WATKINSVILLE, GA 30677
PHONE: (706) 769-2937

AUTHORIZED AGENT: ABE CONSULTING, INC.
CONTACT: ABE ABUHAMDIAN, PE
2410 HOG MOUNTAIN ROAD, SUITE 103
WATKINSVILLE, GA 30677
(706) 613-8900



COLOURS 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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PARKWAY BOULEVARD EXTENSION

**OCONEE CONNECTOR
TO PARKWAY BOULEVARD
OCONEE COUNTY,
GEORGIA**
± 8.38 ACRES IN ROW

COVER SHEET



REVISIONS	DATE
...	...

DATE: 10-21-15
PROJECT #: 14-021-31

SHEET #
1
35

*Using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the " checklist items would be Effective January 1, 2015

LIST OF QUANTITIES

STORM SEWER SYSTEM		
PIPE #	SIZE & TYPE	QTY.
PIPE 1	18" RCP	28.0 LF
PIPE 2	18" RCP	60.0 LF
PIPE 3	18" RCP	104.0 LF
PIPE 4	18" RCP	20.0 LF
PIPE 5	18" RCP	144.0 LF
PIPE 6	18" RCP	20.0 LF
PIPE 7	18" RCP	60.0 LF
PIPE 8	18" RCP	108.0 LF
PIPE 9	18" RCP	24.0 LF
PIPE 10	18" RCP	128.0 LF
PIPE 11	18" RCP	24.0 LF
PIPE 12	18" RCP	128.0 LF
PIPE 13	18" RCP	20.0 LF
PIPE 14	18" RCP	64.0 LF
PIPE 15	18" RCP	12.0 LF
PIPE 16	18" RCP	196.0 LF
PIPE 17	18" RCP	124.0 LF
PIPE 18	18" RCP	64.0 LF
PIPE 19	18" RCP	72.0 LF
PIPE 20	18" RCP	104.0 LF
PIPE 21	18" RCP	20.0 LF
PIPE 22	24" RCP	24.0 LF
PIPE 23	18" RCP	136.0 LF
PIPE 24	18" RCP	64.0 LF
PIPE 25	18" RCP	60.0 LF
PIPE 26	30" RCP	28.0 LF
PIPE 27	24" RCP	92.0 LF
PIPE 28	18" RCP	60.0 LF
PIPE 29	18" RCP	76.0 LF
PIPE 30	24" RCP	96.0 LF
PIPE 31	18" RCP	100.0 LF
PIPE 32	18" RCP	32.0 LF
PIPE 33	18" RCP	24.0 LF
PIPE 34	18" RCP	52.0 LF
RCB CULVERT	10x4'	91.8 LF
RCB CULVERT	10x8'	102.4 LF
DBL WING WALLS	10x4', 10x8'	2.0 EA
PEDESTAL INLET	N/A	6 EA
JUNCTION BOX	N/A	2 EA
CATCH BASIN	SW	23 EA
CATCH BASIN	DW	2 EA
Rework SWCB Top in Conc. Island	As Req.	1 EA
SWCB Over Ex. 36" RCP	As Req.	1 EA
Rework Ex. SWCB to JB at Decal Lane	As Req.	1 EA
RCP in Oconee Connector	18" RCP	12 LF
RCP in Oconee Connector	36" RCP	12 LF
FES	18"	10 EA
FES	24"	2 EA

ROADWAY & TRAFFIC		
ITEM	QTY.	
30" CURB & GUTTER	8130 LF	
HEAVY DUTY PAVEMENT "A"	22800 SQ YD	
HEAVY DUTY PAVEMENT "B"	11625 SQ YD	
1.5" ASPHALT OVERLAY In Oconee Connector Including Saw Cuts & Milling As Required	8890 SQ YD	
RAISED CONC. ISLAND IN Oconee Connector	1 EA	
5" STRIPING (WHITE, SOLID)	6722 LF	
5" STRIPING (WHITE, MINI-SKIPS)	2891 LF	
8"-12" ISLAND STRIPING (WHITE)	1107 LF	
5" STRIPING (YELLOW, SOLID)	10765 LF	
8"-12" ISLAND STRIPING (YELLOW)	1535 LF	
*All Striping Shall Include RPM's Per GDOT & MUTCO SPECS		
CROSSWALK	1154 LF	
GDOT TYPE 2 ARROW	52 EA	
GDOT TYPE 3 ARROW	18 EA	
24" THERMOPLASTIC STOP BAR	507 LF	
GDOT R1-1 STOP SIGN, 24"	14 EA	
R680-5 "STATE LAW, STOP FOR PEDESTRIANS IN CROSSWALK"	4 EA	
D-SPEC #1 STREET NAME SIGN	2 EA	
D-SPEC #1L STREET NAME SIGN	1 EA	
D-SPEC #1R STREET NAME SIGN	1 EA	
GDOT R1-2 YIELD SIGN	2 EA	
GDOT W3-3 R/Y/G TRAFFIC LIGHT	2 EA	
R10-3E(R) PEDESTRIAN SIGN	5 EA	
R10-3E(L) PEDESTRIAN SIGN	3 EA	
STRAIN POLES	4 EA	
QUEUE LOOPS, 6x6'	4 EA	
QUEUE LOOPS, 6x40', QUAD	3 EA	
GUARDRAIL	466 LF	
PROJECT SIGNS		
ADVANCE WARNING SIGNAGE	2 EA	
SPEED LIMIT SIGNS (24"x30")	4 EA	
TRAFFIC SIGNAL SYSTEM (COMPLETE), INCLUDING: -STRAIN POLES -SIGNAL & ARROW HEADS -SIGNS (ROAD NAMES) -PEDS SIGNS & POSTS -LOOPS & BOXES (QUEUE LOOPS 6x6', 4 EA., 6x40', 3 EA.) -CABLES & BRACKETS -FOOTERS -SIGNAL BOX, CABLES & PROGRAMMING	1 EA	

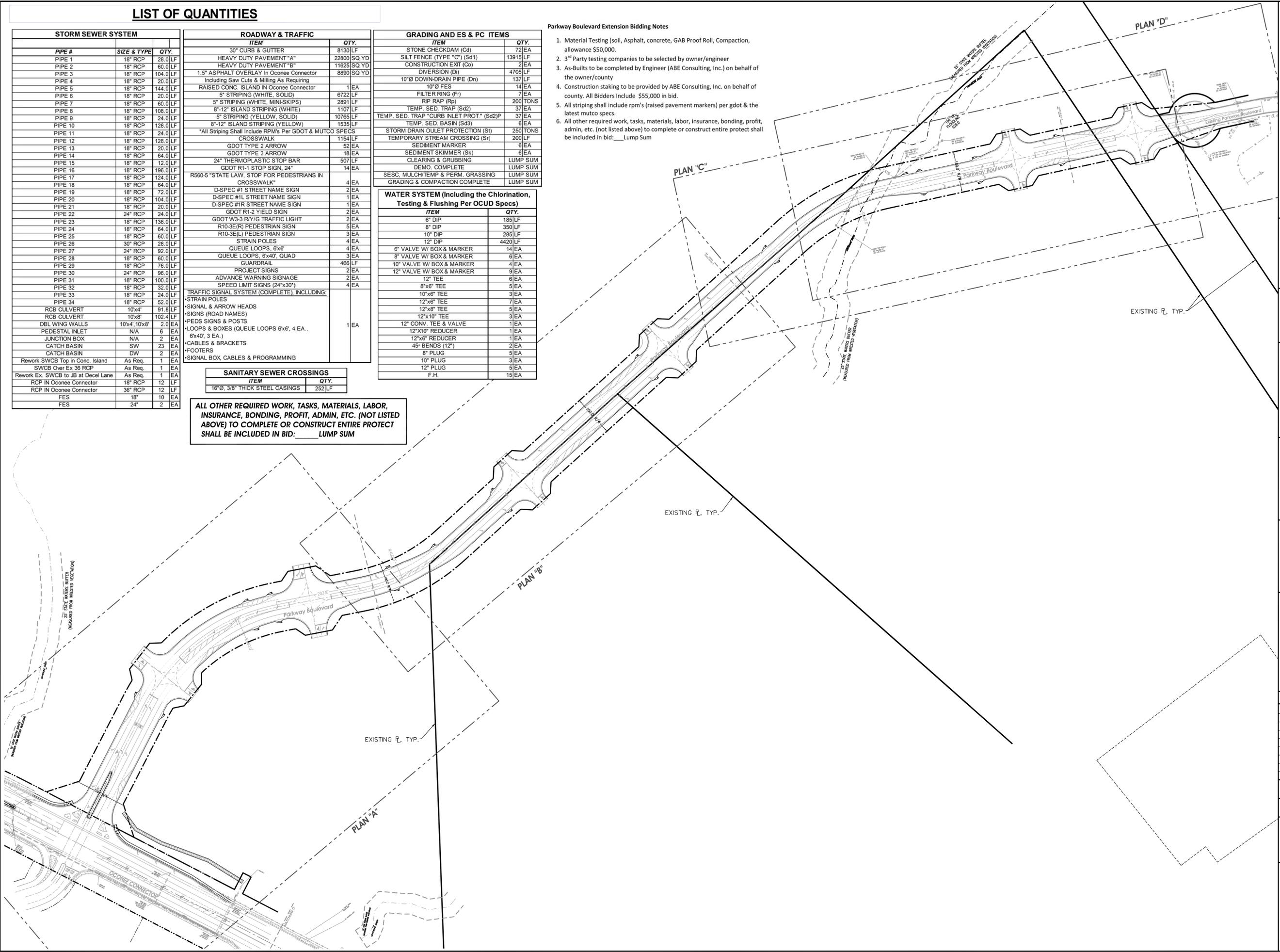
GRADING AND ES & PC ITEMS		
ITEM	QTY.	
STONE CHECKDAM (Cd)	72 EA	
SILT FENCE (TYPE "C") (Sd1)	13915 LF	
CONSTRUCTION EXIT (Co)	2 EA	
DIVERSION (Di)	4705 LF	
10"Ø DOWN-DRAIN PIPE (Dn)	137 LF	
10"Ø FES	14 EA	
FILTER RING (Fr)	7 EA	
RIP RAP (Rp)	200 TONS	
TEMP. SED. TRAP (Sd2)	37 EA	
TEMP. SED. TRAP "CURB INLET PROT." (Sd2)P	37 EA	
TEMP. SED. BASIN (Sd3)	6 EA	
STORM DRAIN OULET PROTECTION (St)	250 TONS	
TEMPORARY STREAM CROSSING (Sr)	200 LF	
SEDIMENT MARKER	6 EA	
SEDIMENT SKIMMER (Sk)	6 EA	
CLEARING & GRUBBING	LUMP SUM	
DEMOL. COMPLETE	LUMP SUM	
SESC. MULCH/TEMP & PERM. GRASSING	LUMP SUM	
GRADING & COMPACTION COMPLETE	LUMP SUM	

WATER SYSTEM (Including the Chlorination, Testing & Flushing Per OCUD Specs)		
ITEM	QTY.	
6" DIP	185 LF	
8" DIP	350 LF	
10" DIP	285 LF	
12" DIP	4420 LF	
6" VALVE W/ BOX & MARKER	14 EA	
8" VALVE W/ BOX & MARKER	6 EA	
10" VALVE W/ BOX & MARKER	4 EA	
12" VALVE W/ BOX & MARKER	9 EA	
12" TEE	6 EA	
8"x6" TEE	5 EA	
10"x6" TEE	3 EA	
12"x6" TEE	7 EA	
12"x8" TEE	5 EA	
12"x10" TEE	3 EA	
12" CONV. TEE & VALVE	1 EA	
12"x10" REDUCER	1 EA	
12"x6" REDUCER	1 EA	
45° BENDS (12")	2 EA	
8" PLUG	5 EA	
10" PLUG	3 EA	
12" PLUG	5 EA	
F.H.	15 EA	

SANITARY SEWER CROSSINGS		
ITEM	QTY.	
16"Ø, 3/8" THICK STEEL CASINGS	252 LF	

ALL OTHER REQUIRED WORK, TASKS, MATERIALS, LABOR, INSURANCE, BONDING, PROFIT, ADMIN, ETC. (NOT LISTED ABOVE) TO COMPLETE OR CONSTRUCT ENTIRE PROJECT SHALL BE INCLUDED IN BID: _____ LUMP SUM

- Parkway Boulevard Extension Bidding Notes**
1. Material Testing (soil, Asphalt, concrete, GAB Proof Roll, Compaction, allowance \$50,000.
 2. 3rd Party testing companies to be selected by owner/engineer
 3. As-Built to be completed by Engineer (ABE Consulting, Inc.) on behalf of the owner/county
 4. Construction staking to be provided by ABE Consulting, Inc. on behalf of county. All Bidders Include \$55,000 in bid.
 5. All striping shall include rpm's (raised pavement markers) per gdot & the latest mutco specs.
 6. All other required work, tasks, materials, labor, insurance, bonding, profit, admin, etc. (not listed above) to complete or construct entire project shall be included in bid: _____ Lump Sum



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PARKWAY BOULEVARD EXTENSION

OCONEE CONNECTOR TO PARKWAY BOULEVARD
 OCONEE COUNTY, GEORGIA
 ±8.38 ACRES IN ROW

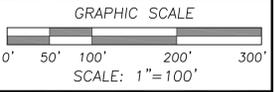
OVERALL ROADWAY EXTENSION PLAN & QUANTITIES TABLE

ISSUED FOR PRICING ONLY

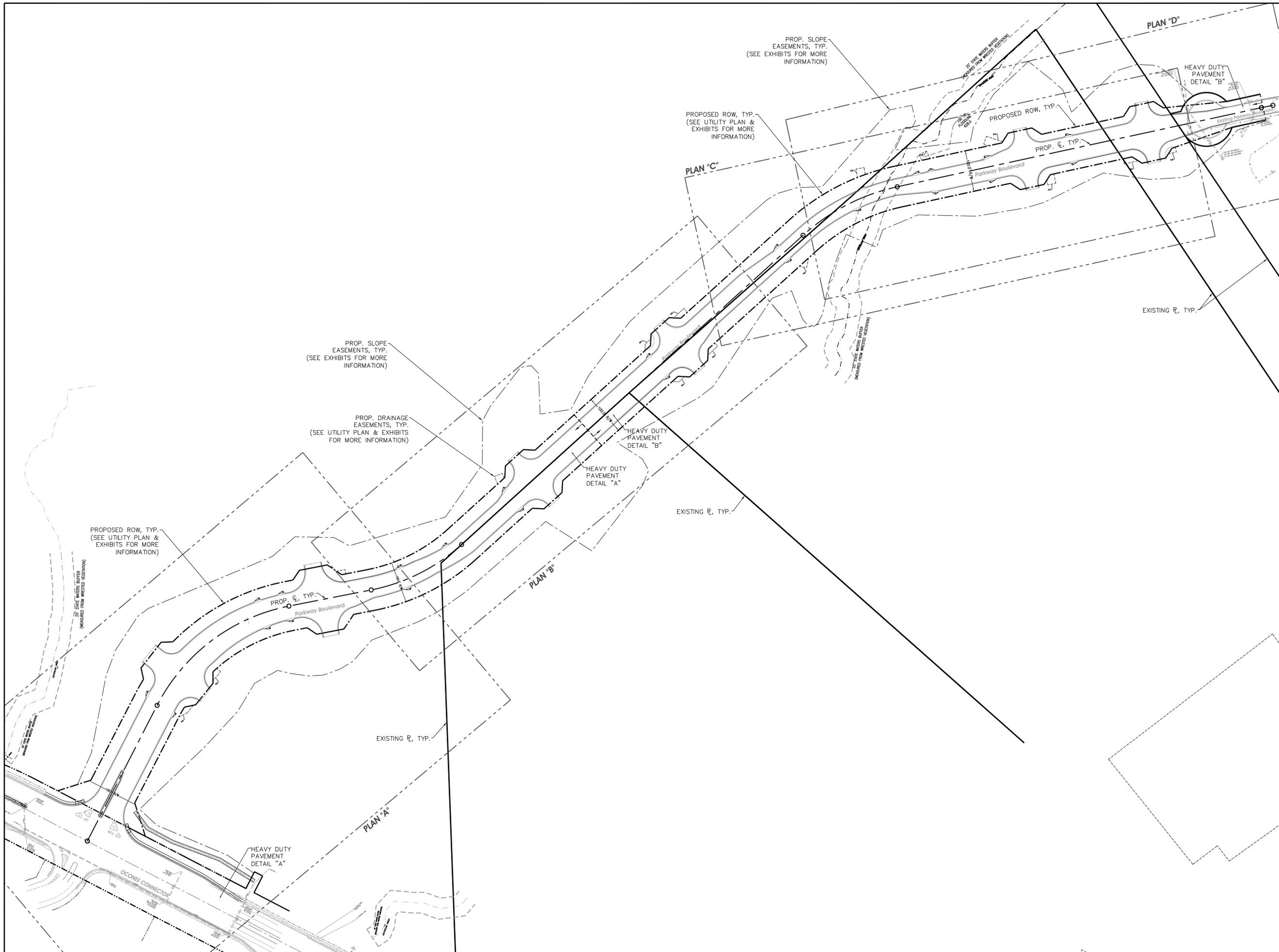
10-21-15

REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
2
35



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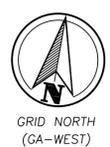
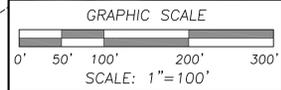
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OCONEE COUNTY, GEORGIA
 ±8.38 ACRES IN ROW

PROPOSED OVERALL RIGHT OF WAY & EASEMENT PLAN



REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
3
35



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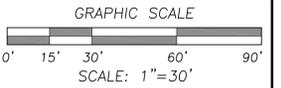
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 OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

OCONEE CONNECTOR INTERSECTION DEMO PLAN



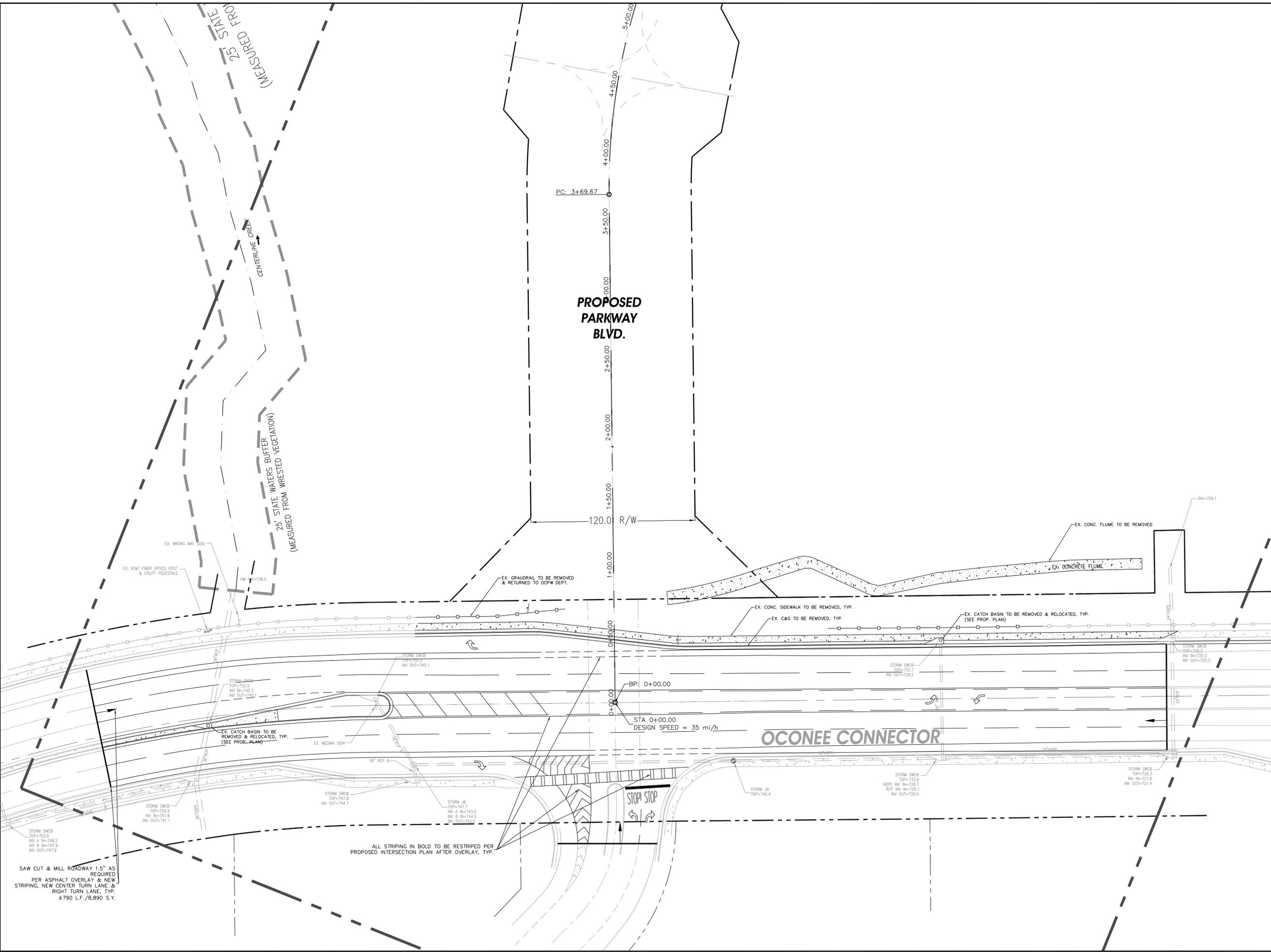
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GRID NORTH (GA-WEST)

SHEET #
4
35



SAW CUT & MILL ROADWAY 1.5" AS REQUIRED PER ASPHALT OVERLAY & NEW STRIPING, NEW CENTER TURN LANE & RIGHT TURN LANE, TYP. ±790 L.F./8,890 S.Y.

ALL STRIPING IN BOLD TO BE RESTRIPE PER PROPOSED INTERSECTION PLAN AFTER OVERLAY, TYP.

BP: 0+00.00
 STA 0+00.00
 DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PROPOSED PARKWAY BLVD.

25' STATE WATERS BUFFER (MEASURED FROM CENTERLINE CREEK)

25' STATE WATERS BUFFER (MEASURED FROM WRESTED VEGETATION)

120.0 R/W

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PC: 3+69.67

4+50.00

4+00.00

3+50.00

3+00.00

2+50.00

2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PC: 3+69.67

4+50.00

4+00.00

3+50.00

3+00.00

2+50.00

2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PC: 3+69.67

4+50.00

4+00.00

3+50.00

3+00.00

2+50.00

2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PC: 3+69.67

4+50.00

4+00.00

3+50.00

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2+50.00

2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

PC: 3+69.67

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4+00.00

3+50.00

3+00.00

2+50.00

2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

OCONEE CONNECTOR

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4+00.00

3+50.00

3+00.00

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2+00.00

1+50.00

1+00.00

0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

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4+00.00

3+50.00

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0+50.00

0+00.00

BP: 0+00.00

STA 0+00.00

DESIGN SPEED = 35 mi/h

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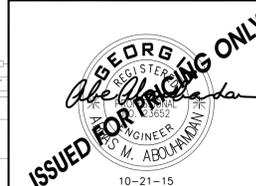
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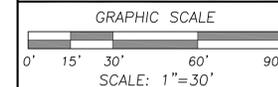
OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

OCONEE CONNECTOR INTERSECTION PLAN



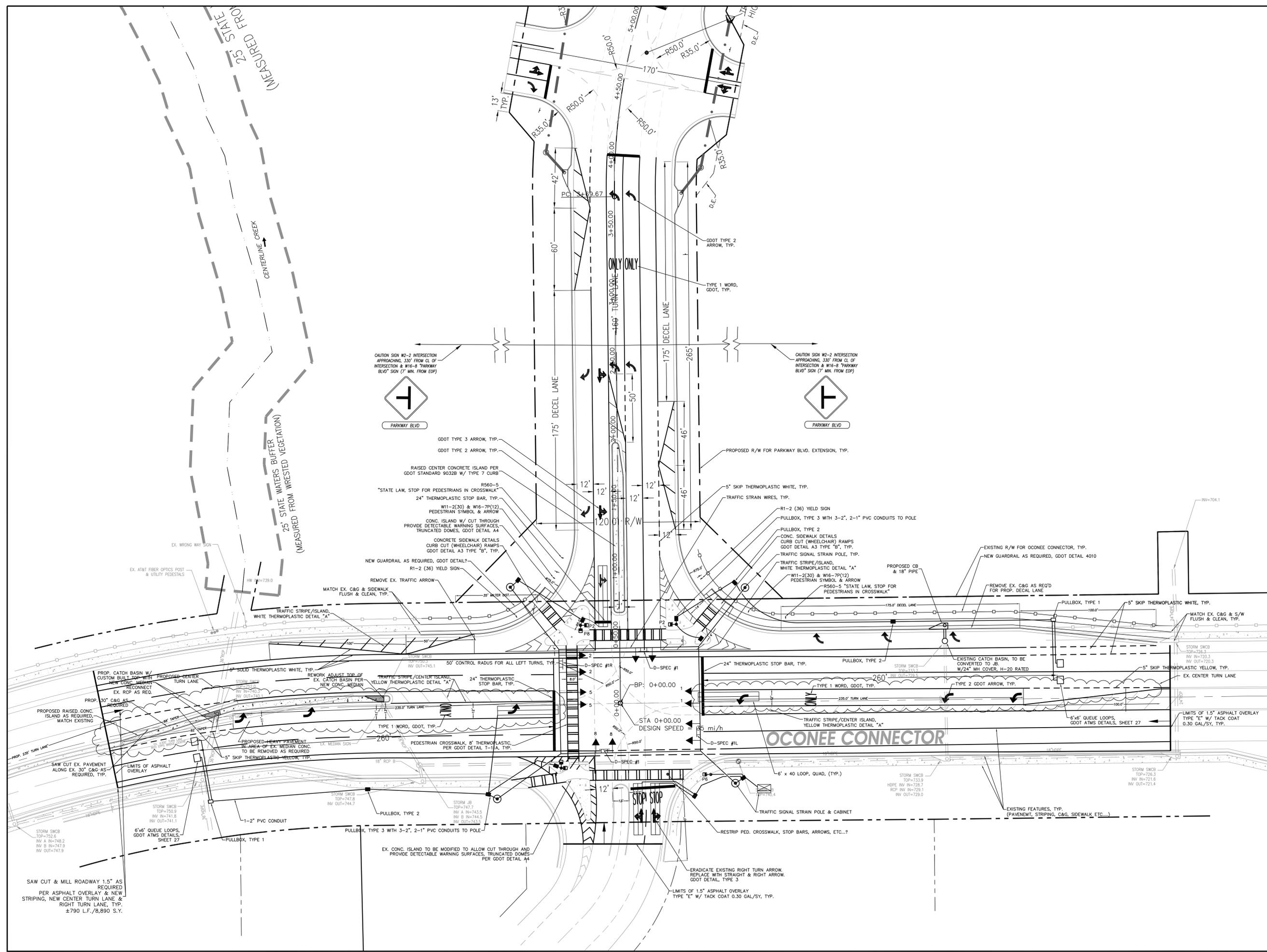
REVISIONS	DATE

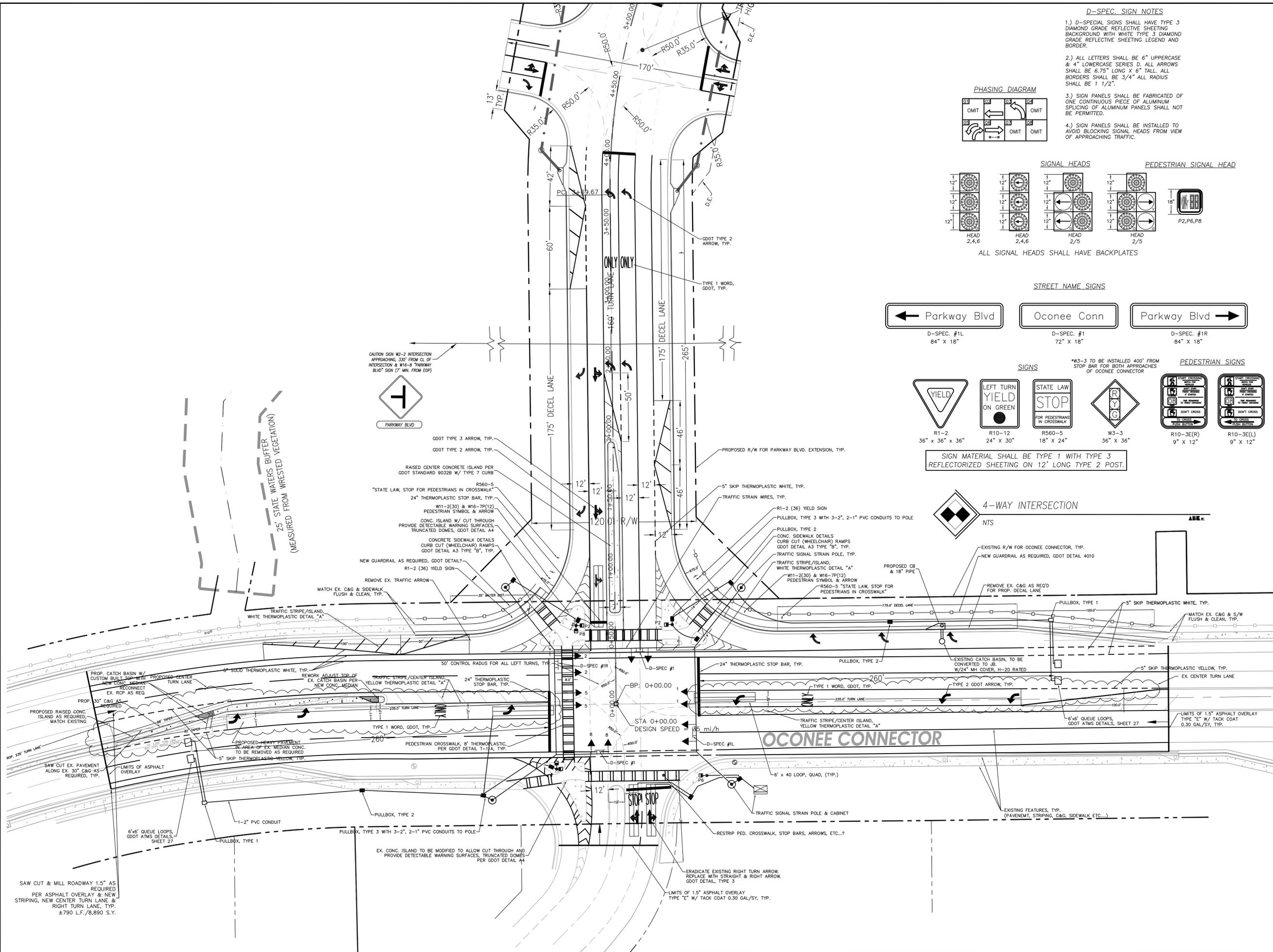
DATE: 10-21-15
PROJECT #: 14-021-31



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GRID NORTH (GA-WEST)

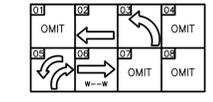




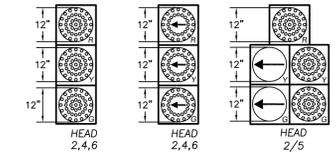
D-SPEC. SIGN NOTES

- 1.) D-SPECIAL SIGNS SHALL HAVE TYPE 3 DIAMOND GRADE REFLECTIVE SHEETING BACKGROUND WITH WHITE TYPE 3 DIAMOND GRADE REFLECTIVE SHEETING LEGEND AND BORDER.
- 2.) ALL LETTERS SHALL BE 6" UPPERCASE & 4" LOWERCASE SERIES D. ALL ARROWS SHALL BE 6.75" LONG X 6" TALL. ALL BORDERS SHALL BE 3/4" ALL RADIUS SHALL BE 1 1/2".
- 3.) SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF ALUMINUM. SPLICING OF ALUMINUM PANELS SHALL NOT BE PERMITTED.
- 4.) SIGN PANELS SHALL BE INSTALLED TO AVOID BLOCKING SIGNAL HEADS FROM VIEW OF APPROACHING TRAFFIC.

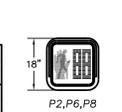
PHASING DIAGRAM



SIGNAL HEADS

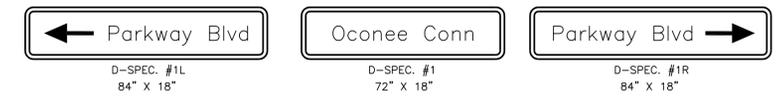


PEDESTRIAN SIGNAL HEAD

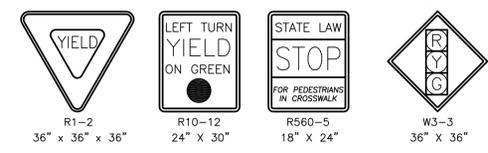


ALL SIGNAL HEADS SHALL HAVE BACKPLATES

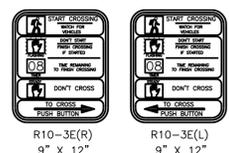
STREET NAME SIGNS



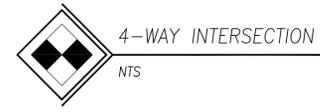
SIGNS



PEDESTRIAN SIGNS



SIGN MATERIAL SHALL BE TYPE 1 WITH TYPE 3 REFLECTORIZED SHEETING ON 12" LONG TYPE 2 POST.



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PARKWAY BOULEVARD EXTENSION

OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

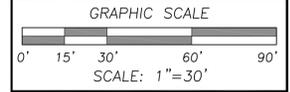
OCONEE CONNECTOR TRAFFIC SIGNAL PLAN

ISSUED FOR PRICING ONLY

10-21-15

REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



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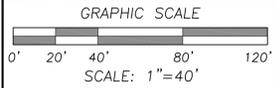
OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

STRIPING PLAN A

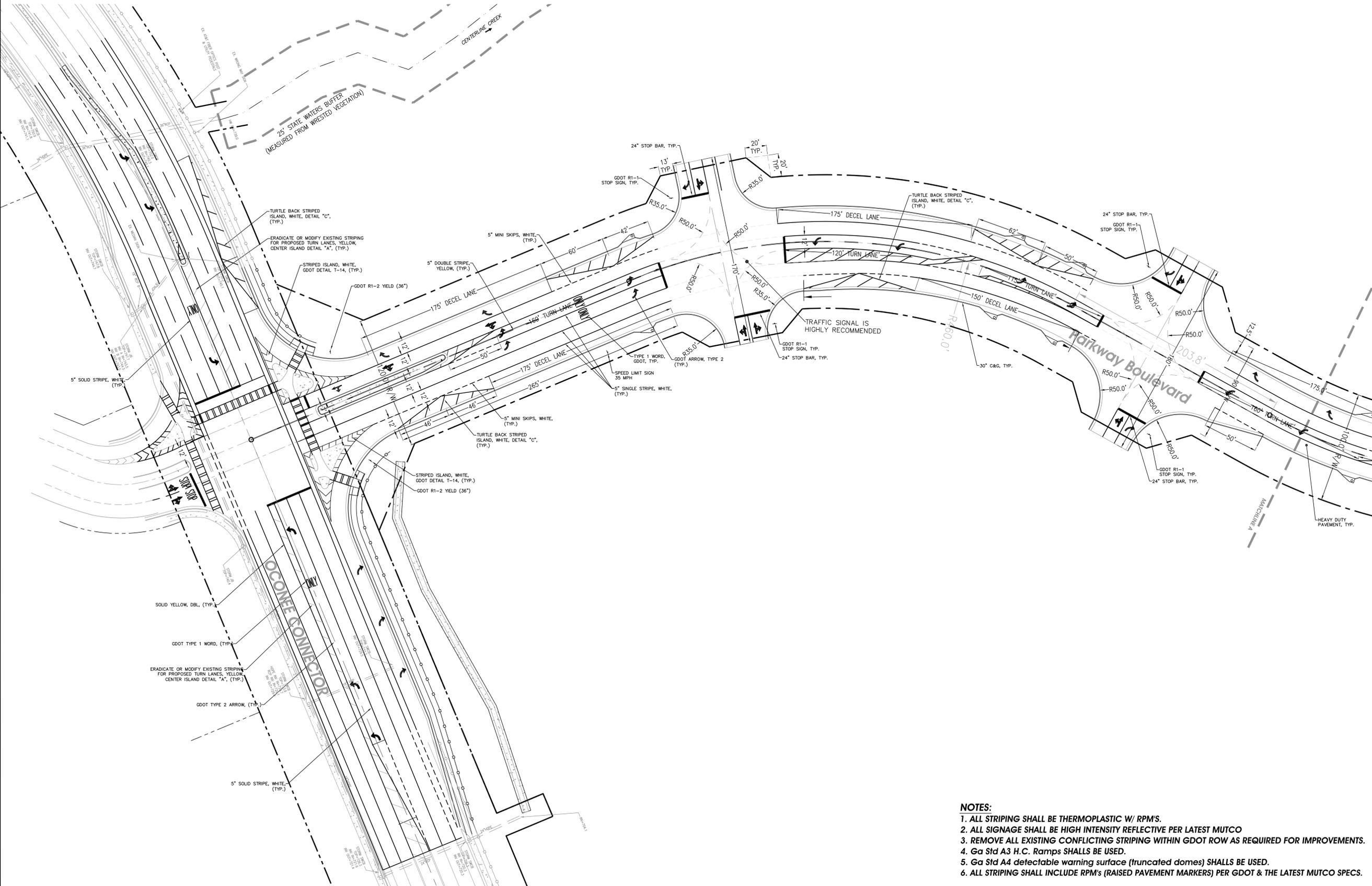


REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
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- NOTES:**
1. ALL STRIPING SHALL BE THERMOPLASTIC W/ RPM'S.
 2. ALL SIGNAGE SHALL BE HIGH INTENSITY REFLECTIVE PER LATEST MUTCO
 3. REMOVE ALL EXISTING CONFLICTING STRIPING WITHIN GDOT ROW AS REQUIRED FOR IMPROVEMENTS.
 4. Ga Std A3 H.C. Ramps SHALLS BE USED.
 5. Ga Std A4 detectable warning surface (truncated domes) SHALLS BE USED.
 6. ALL STRIPING SHALL INCLUDE RPM'S (RAISED PAVEMENT MARKERS) PER GDOT & THE LATEST MUTCO SPECS.



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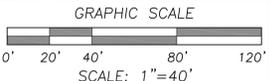
OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

STRIPING PLAN B



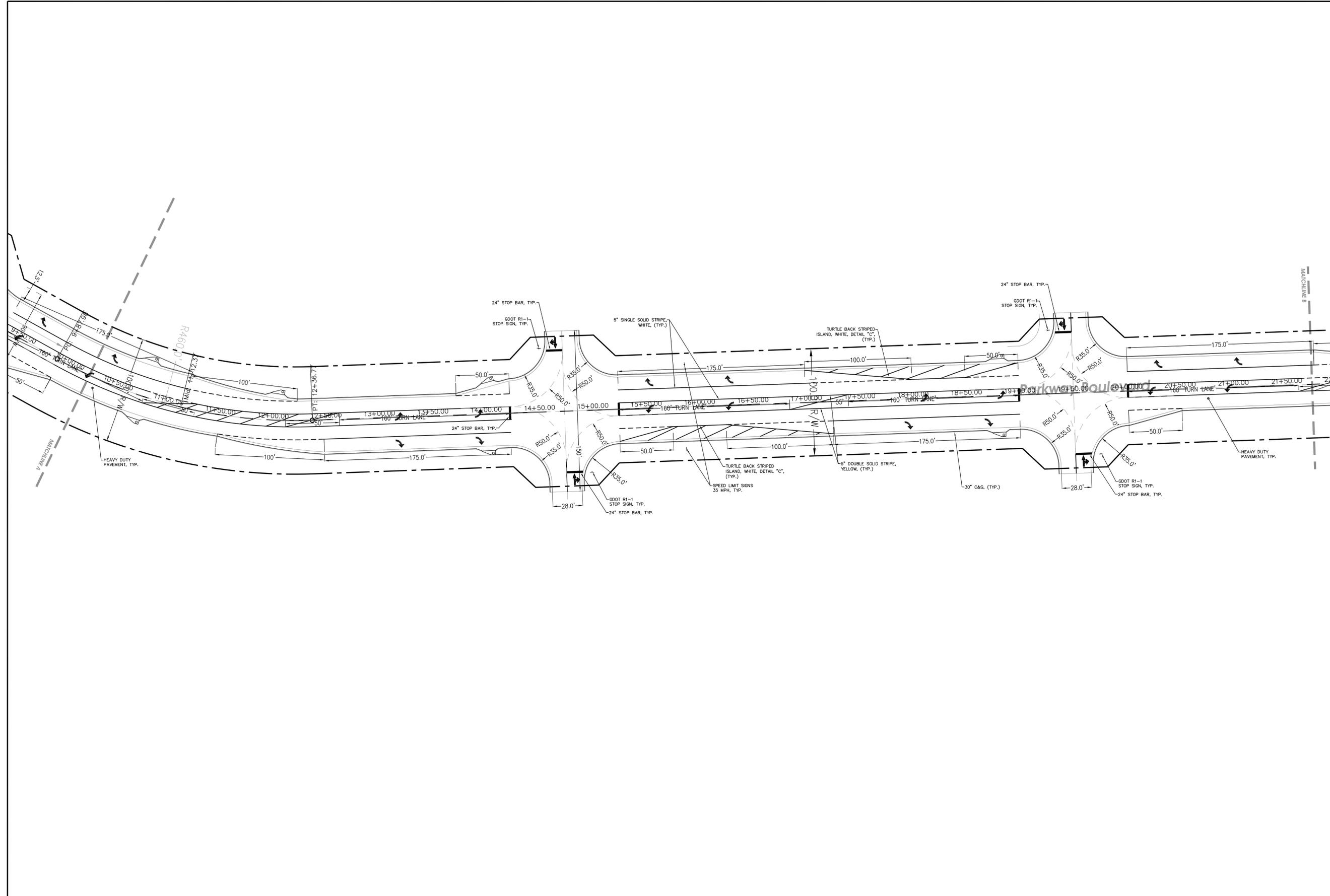
REVISIONS	DATE
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DATE: 10-21-15
PROJECT #: 14-021-31



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GRID NORTH (GA-WEST)



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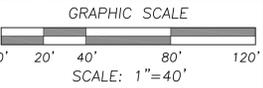
OCONEE CONNECTOR TO PARKWAY BOULEVARD
 OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

STRIPING PLAN C



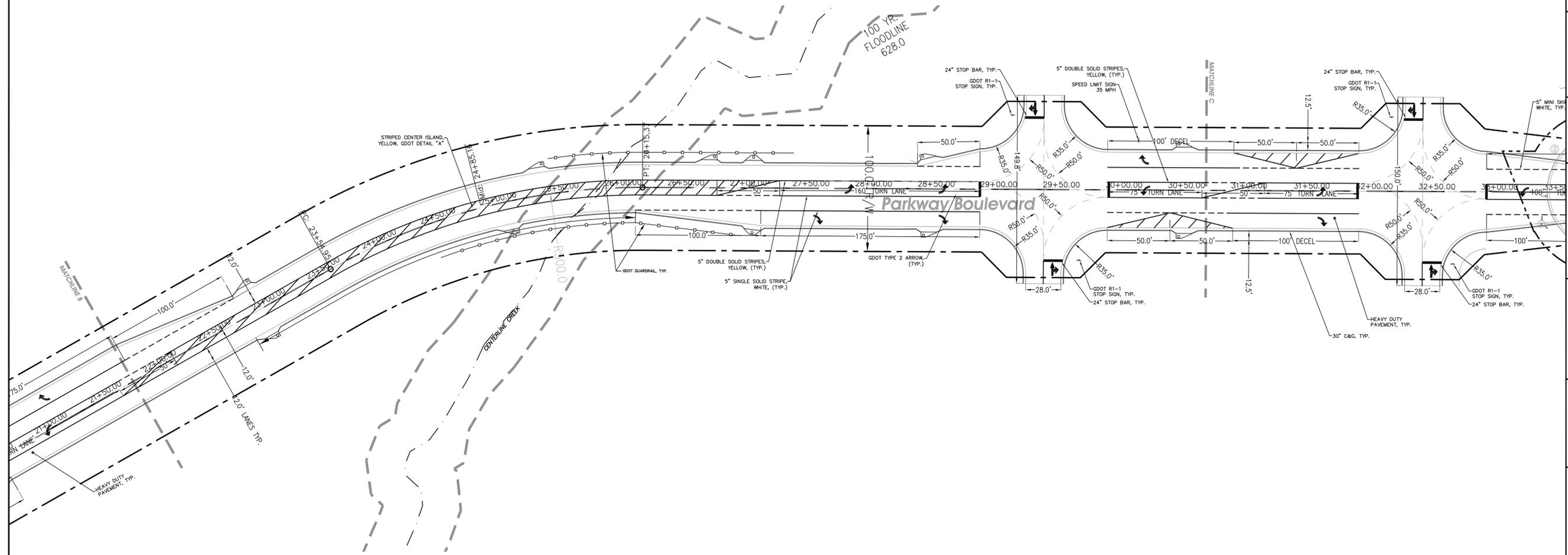
REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



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 35

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OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

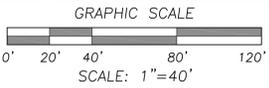
STRIPING PLAN D



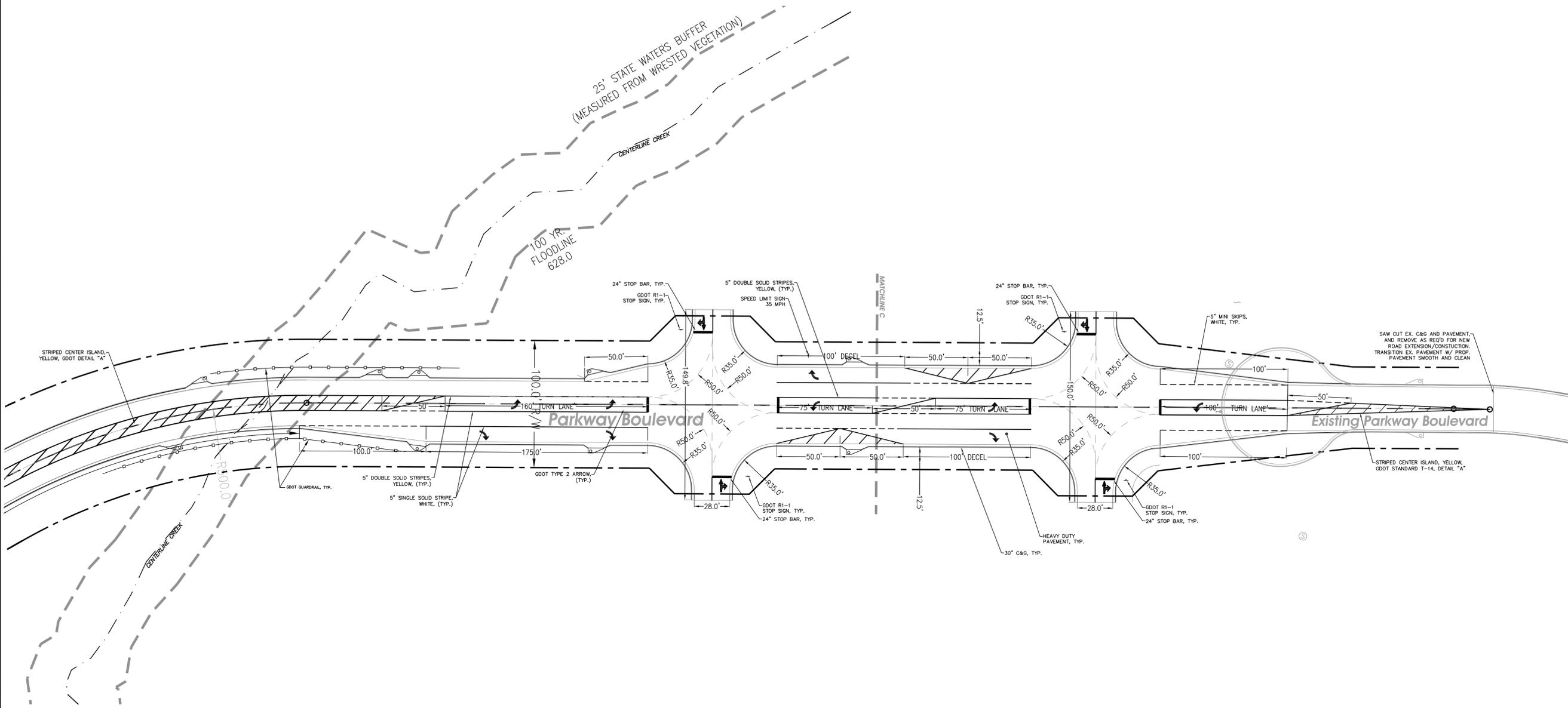
REVISIONS	DATE
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DATE: 10-21-15

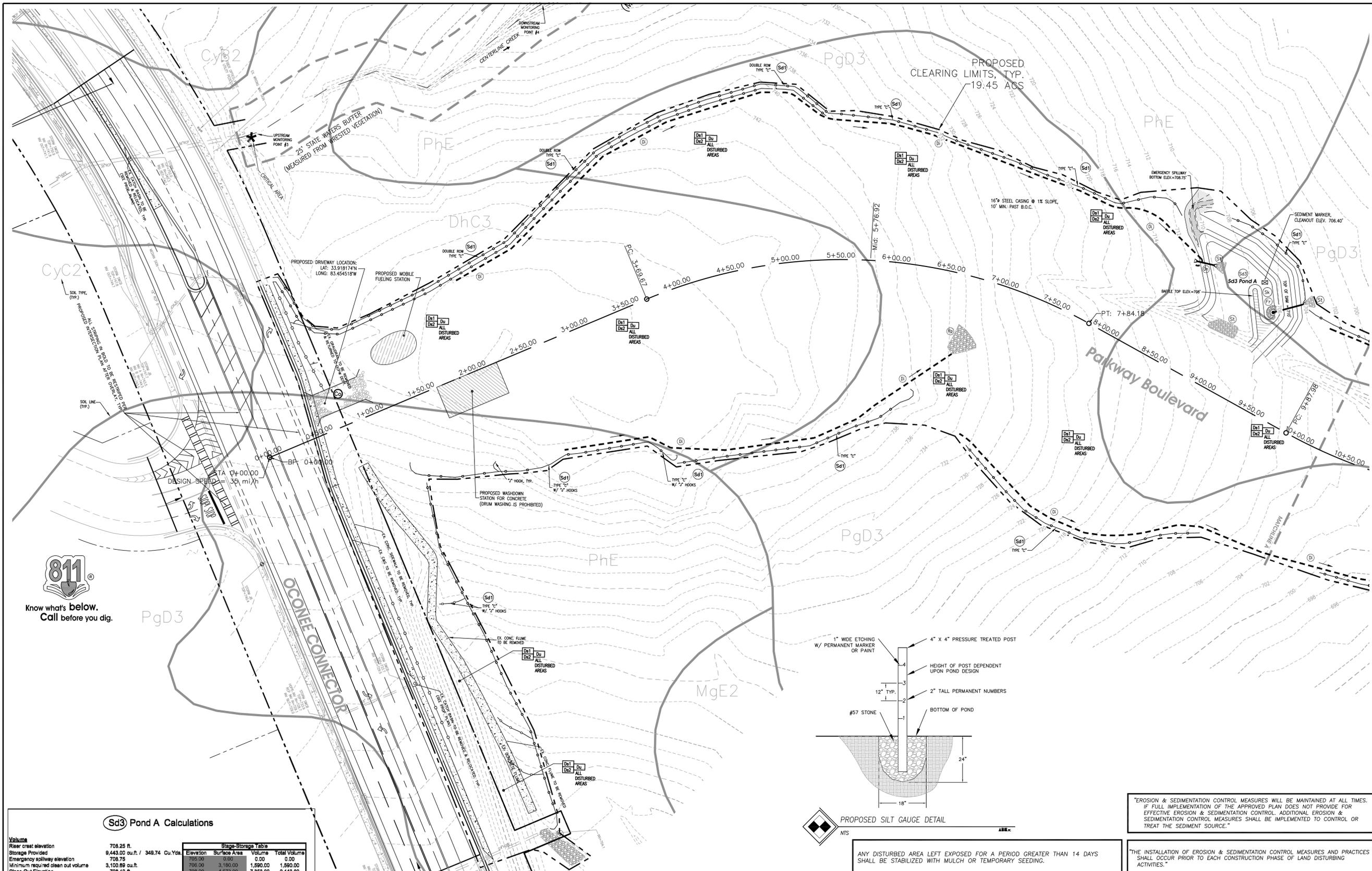
PROJECT #: 14-021-31



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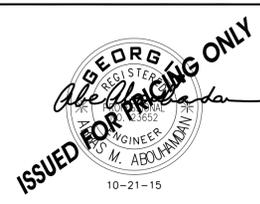
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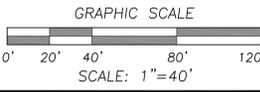
OCONEE CONNECTOR TO PARKWAY BOULEVARD
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 ± 8.38 ACRES IN ROW

ES&PC PHASE I - INITIAL PLAN A



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DATE: 10-21-15
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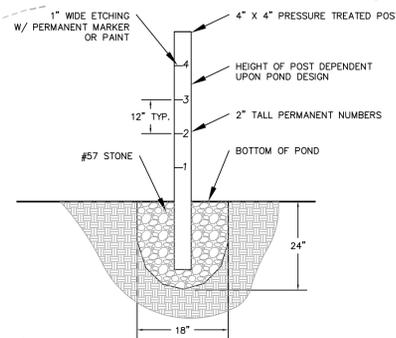


Sd3 Pond A Calculations

Volume	Value
Riser crest elevation	708.25 ft.
Storage Provided	9,443.00 cu.ft. / 349.74 Cu.Yds.
Emergency spillway elevation	708.75
Minimum required clean out volume	3,100.89 cu.ft.
Clean Out Elevation	708.40 ft.
Height of riser	3.25 ft.
Stormwater Runoff	
2yr. 24hour peak discharge	10.84 cfs.
25yr. 24hour peak discharge	15.95 cfs.
Surface Area/Configuration Details	
Minimum basin surface area	4,721 sq. ft.
Available area >= Minimum area?	4,825 sq. ft.
Available area >= Minimum area?	Yes
Principal Spillway	
Length of Pipe	28.00 ft.
Diameter of principal spillway	24.00 in.
Flow through Principal Spillway	13.43 cfs.
Riser diameter	38.00 in.
Trash Rack diameter	54.00 in.
Discharge Elevation	704.00
Emergency Spillway	
Bottom Width	4.00 ft.
Side Slope	4 : 1
Spillway discharge	10.81 cfs.
Concrete Riser Base Details	
Total volume of concrete required	20.09 cu. ft.
Required base surface area	13.39 sq. ft.
Riser base length and width	4 ft.

Stage-Storage Table			
Elevation	Surface Area	Volume	Total Volume
705.00	0.00	0.00	0.00
706.00	3,190.00	1,890.00	1,890.00
708.00	4,678.00	7,883.00	9,443.00
710.00	6,195.00	10,888.00	20,311.00

2yr. 24hour peak discharge			25yr. 24hour peak discharge		
Area (ac.)	C	Q (cfs)	Area (ac.)	C	Q (cfs)
3.77	0.5	10.84	3.77	0.5	15.95



PROPOSED SILT GAUGE DETAIL

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

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

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

I, ABE ABUJAMAL, 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 Abouhanda DATE SIGNED: 10-21-15

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.
 SIGNATURE: Abe Abouhanda DATE SIGNED: 10-21-15

THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL, NUMBER #000010490
 SIGNATURE: Abe Abouhanda DATE SIGNED: 10-21-15

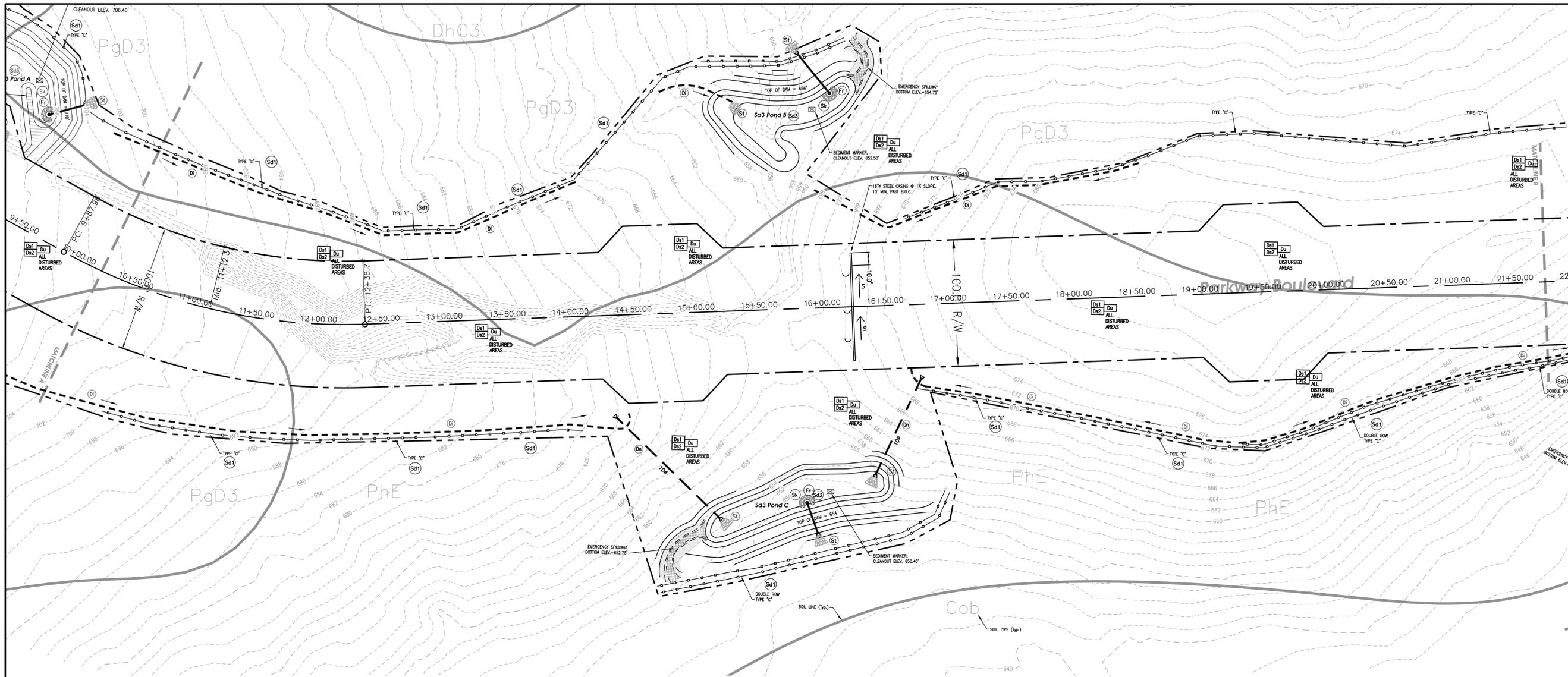
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PARKWAY BOULEVARD EXTENSION

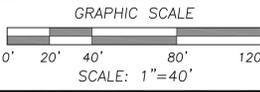
OCONEE CONNECTOR TO PARKWAY BOULEVARD
 OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

ES&PC
 PHASE I - INITIAL
 PLAN B



REVISIONS	DATE

DATE: 10-21-15
 PROJECT #: 14-021-31



SHEET #
12
 35

Sd3 Pond B Calculations

Volume
 Risers crest elevation: 654.25 ft.
 Storage Provided: 6,702.50 cu.ft. / 248.24 Cu.Yds.
 Emergency spillway elevation: 654.75
 Minimum required clean out volume: 2,200.82 cu.ft.
 Clean Out Elevation: 652.50 ft.
 Height of riser: 3.25 ft.
 Stormwater Runoff
 2yr. 24hour peak discharge: 9.06 cfs.
 25yr. 24hour peak discharge: 12.99 cfs.

Elevation	Surface Area	Volume	Total Volume
651.00	0.00	0.00	0.00
652.00	1,973.00	986.50	986.50
654.00	3,743.00	5,718.00	6,702.50
656.00	6,054.00	9,797.00	16,499.50

Surface Area/Configuration Design
 Minimum basin surface area: 3,945 sf.
 Available area >= Minimum area?: Yes

Principal Spillway
 Length of Pipe: 39.00 ft.
 Diameter of principal spillway: 18.00 in.
 Flow through Principal Spillway: 8.48 cfs.
 Riser diameter: 30.00 in.
 Trash Rack diameter: 42.00 in.
 Discharge Elevation: 650.00

Emergency Spillway
 Bottom Width: 4.00 ft.
 Side Slope: 4 : 1
 Spillway discharge: 10.81 cfs.

Concrete Riser Base Design
 Total volume of concrete required: 13.94 cf.
 Required base surface area: 9.30 sf.
 Riser base length and width: 4 ft.

2yr. 24hour peak discharge	Req. Storage
Area (sq. ft.)	211.08 cy
C	0.5
Int (in/hr)	5.75
Q (cfs)	8.06

25yr. 24hour peak discharge	Req. Storage
Area (sq. ft.)	3.15
C	0.5
Int (in/hr)	8.25
Q (cfs)	12.99

Sd3 Pond C Calculations

Volume
 Risers crest elevation: 652.25 ft.
 Storage Provided: 7,789.00 cu.ft. / 288.48 Cu.Yds.
 Emergency spillway elevation: 652.75
 Minimum required clean out volume: 2,657.58 cu.ft.
 Clean Out Elevation: 650.40 ft.
 Height of riser: 3.25 ft.
 Stormwater Runoff
 2yr. 24hour peak discharge: 8.83 cfs.
 25yr. 24hour peak discharge: 12.68 cfs.

Elevation	Surface Area	Volume	Total Volume
649.00	0.00	0.00	0.00
650.00	2,598.00	1,299.00	1,299.00
652.00	3,892.00	6,490.00	7,789.00
654.00	5,286.00	9,178.00	16,967.00

Surface Area/Configuration Design
 Minimum basin surface area: 3,845 sf.
 Available area >= Minimum area?: Yes

Principal Spillway
 Length of Pipe: 25.00 ft.
 Diameter of principal spillway: 18.00 in.
 Flow through Principal Spillway: 8.48 cfs.
 Riser diameter: 30.00 in.
 Trash Rack diameter: 42.00 in.
 Discharge Elevation: 648.00

Emergency Spillway
 Bottom Width: 4.00 ft.
 Side Slope: 4 : 1
 Spillway discharge: 10.81 cfs.

Concrete Riser Base Design
 Total volume of concrete required: 13.94 cf.
 Required base surface area: 9.30 sf.
 Riser base length and width: 4 ft.

2yr. 24hour peak discharge	Req. Storage
Area (ac.)	3.07
C	0.5
Int (in/hr)	5.75
Q (cfs)	8.83

25yr. 24hour peak discharge	Req. Storage
Area (ac.)	3.07
C	0.5
Int (in/hr)	8.25
Q (cfs)	12.68

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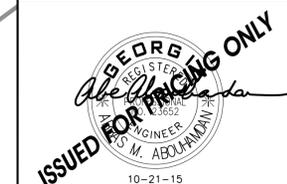
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PARKWAY BOULEVARD EXTENSION

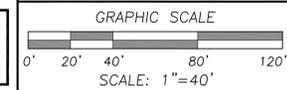
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PLAN C

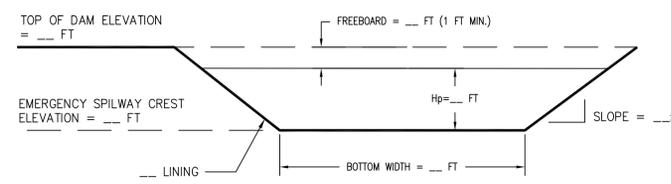
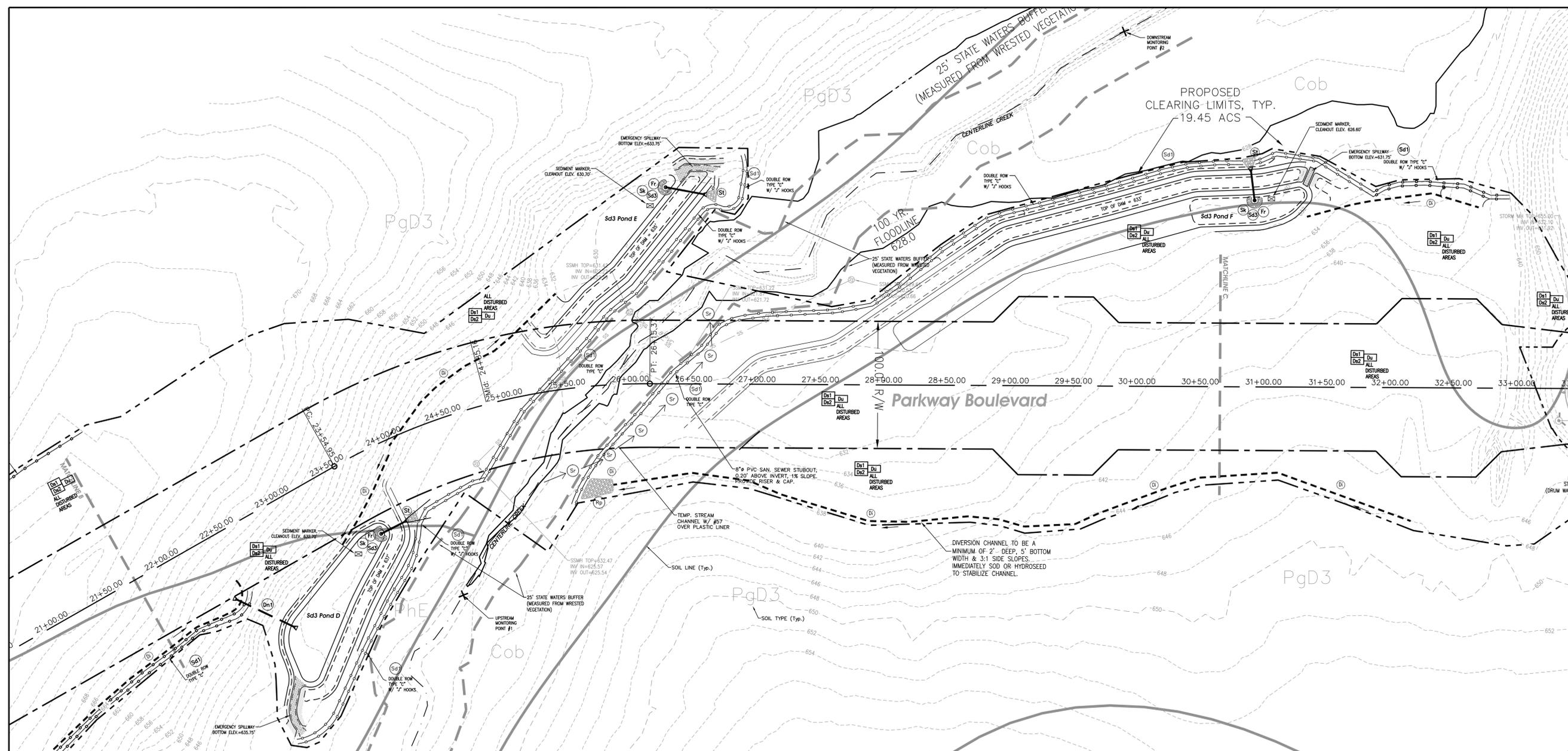


REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
13
35



CROSS-SECTIONAL DETAIL OF EMERGENCY SPILLWAY
 SEE POND CALCULATIONS FOR RELEVANT INFORMATION



Sd3 Pond D Calculations

Volume	Value
Riser crest elevation	835.25 ft.
Storage Provided	3,288.00 cu. ft. / 121.04 Cu.Yds.
Emergency spillway elevation	835.75
Minimum required clean out volume	1,073.07 cu. ft.
Clean Out Elevation	832.70 ft.
Height of riser	3.25 ft.
Stormwater Runoff	
2yr. 24hour peak discharge	5.90 cfs.
25yr. 24hour peak discharge	8.48 cfs.
Surface Area/Configuration Design	
Minimum basin surface area	2,570 sf.
Available area	4,013 sf.
Available area >= Minimum area?	Yes
Principal Spillway	
Length of Pipe	28.00 ft.
Diameter of principal spillway	18.00 in.
Flow through Principal Spillway	9.48 cfs.
Riser diameter	30.00 in.
Trash Rack diameter	42.00 in.
Discharge Elevation	831.50
Emergency Spillway	
Bottom Width	4.00 ft.
Side Slope	4 : 1
Spillway discharge	10.81 cfs.
Concrete Riser Base Design	
Total volume of concrete required	13.94 cf.
Required base surface area	9.30 sf.
Riser base length and width	4 ft.

Stage-Storage Table			
Elevation	Surface Area	Volume	Total Volume
632.00	0.00	0.00	0.00
634.00	3,288.00	3,288.00	3,288.00
636.00	4,510.00	7,776.00	11,064.00
637.00	5,345.00	14,827.50	19,973.50

2yr. 24hour peak discharge		Req. Storage
Area (ac.)	1.71	114.87 cy
C	0.8	
Int. (in/hr)	5.75	
Q (cfs)	5.90	

25yr. 24hour peak discharge		Req. Storage
Area (ac.)	1.71	114.87 cy
C	0.8	
Int. (in/hr)	8.25	
Q (cfs)	8.48	

Sd3 Pond E Calculations

Volume	Value
Riser crest elevation	833.25 ft.
Storage Provided	3,845.00 cu. ft. / 135 Cu.Yds.
Emergency spillway elevation	833.75
Minimum required clean out volume	1,198.87 cu. ft.
Clean Out Elevation	830.70 ft.
Height of riser	3.25 ft.
Stormwater Runoff	
2yr. 24hour peak discharge	5.93 cfs.
25yr. 24hour peak discharge	8.51 cfs.
Surface Area/Configuration Design	
Minimum basin surface area	2,585 sf.
Available area	5,196 sf.
Available area >= Minimum area?	Yes
Principal Spillway	
Length of Pipe	28.00 ft.
Diameter of principal spillway	18.00 in.
Flow through Principal Spillway	9.48 cfs.
Riser diameter	30.00 in.
Trash Rack diameter	42.00 in.
Discharge Elevation	829.50
Emergency Spillway	
Bottom Width	4.00 ft.
Side Slope	4 : 1
Spillway discharge	10.81 cfs.
Concrete Riser Base Design	
Total volume of concrete required	13.94 cf.
Required base surface area	9.30 sf.
Riser base length and width	4 ft.

Stage-Storage Table			
Elevation	Surface Area	Volume	Total Volume
630.00	0.00	0.00	0.00
632.00	3,845.00	3,845.00	3,845.00
634.00	6,230.00	9,876.00	13,820.00
635.00	7,529.00	17,719.50	23,299.50

2yr. 24hour peak discharge		Req. Storage
Area (ac.)	1.72	115.24 cy
C	0.8	
Int. (in/hr)	5.75	
Q (cfs)	5.93	

25yr. 24hour peak discharge		Req. Storage
Area (ac.)	1.72	115.24 cy
C	0.8	
Int. (in/hr)	8.25	
Q (cfs)	8.51	

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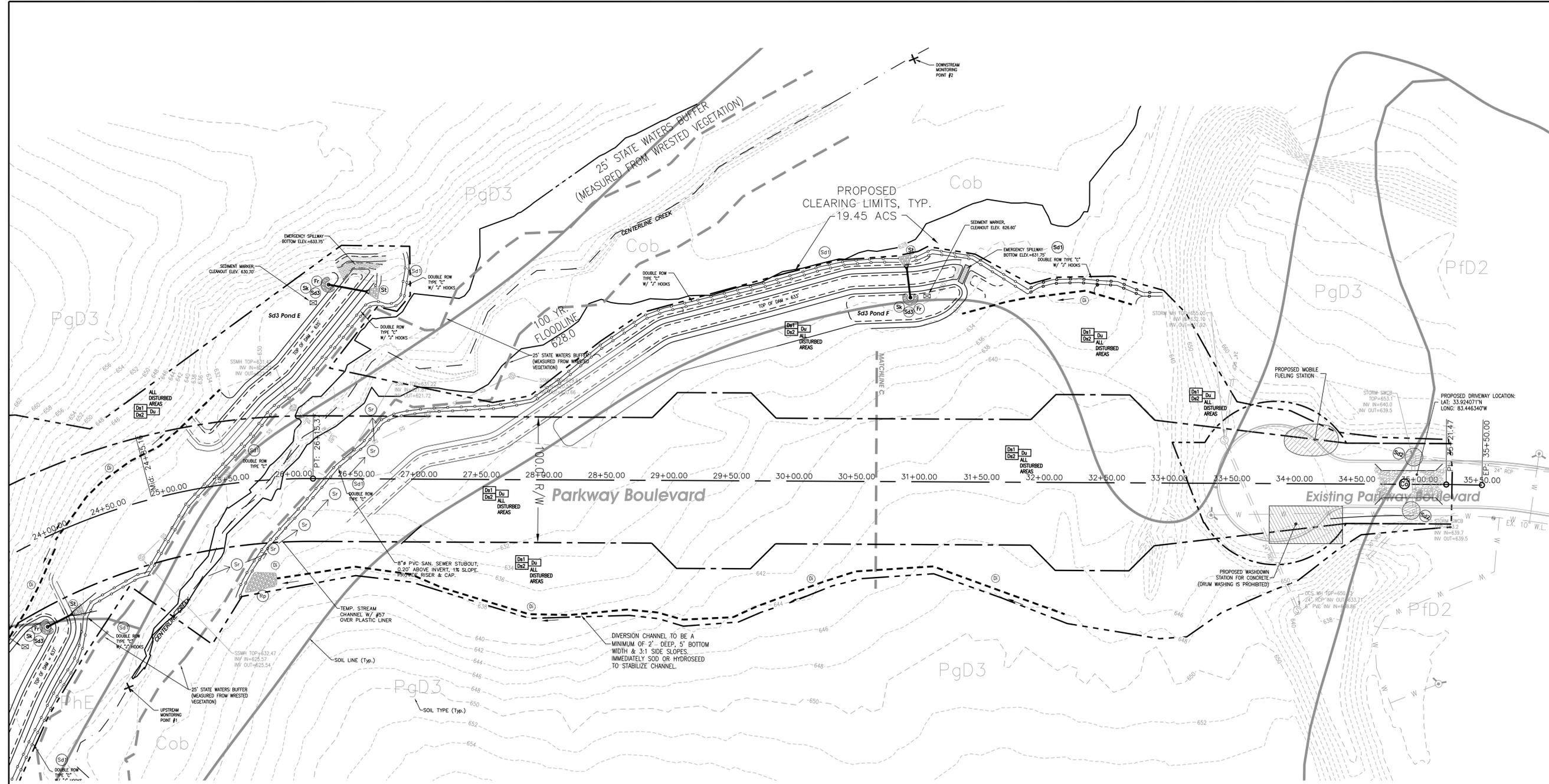
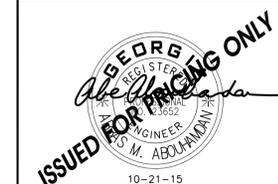
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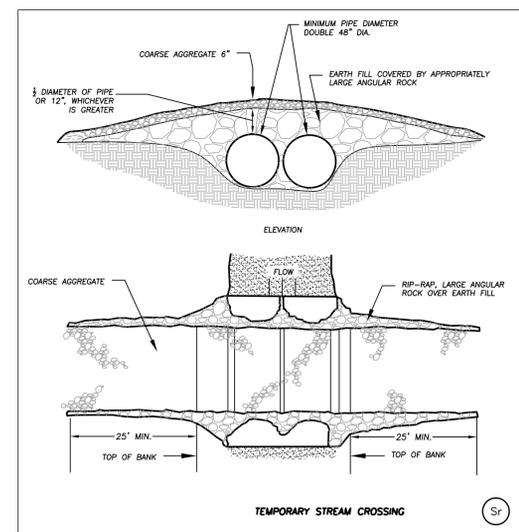
Sd3 Pond F Calculations

Volume	Value
Riser crest elevation	831.25 ft.
Storage Provided	6,310.50 cu.ft. / 198.89 Cu.Yds.
Emergency spillway elevation	831.75
Minimum required clean out volume	1,743.75 cu.ft.
Clean Out Elevation	829.30 ft.
Height of riser	2.75 ft.
Stormwater Runoff	
2yr. 24hour peak discharge	7.48 cfs.
25yr. 24hour peak discharge	10.73 cfs.
Surface Area/Configuration Design	
Minimum basin surface area	3,258 sq. ft.
Available area	19,494 sq. ft.
Available area >= Minimum area?	Yes
Principal Spillway	
Length of Pipe	28.00 ft.
Diameter of principal spillway	18.00 in.
Flow through Principal Spillway	9.43 cfs.
Riser diameter	30.00 in.
Trash Rack diameter	42.00 in.
Discharge Elevation	828.20
Emergency Spillway	
Bottom Width	4.00 ft.
Slope	4 : 1
Spillway discharge	10.81 cfs.
Concrete Riser Base Design	
Total volume of concrete required	11.80 cu. ft.
Required base surface area	7.87 sq. ft.
Riser base length and width	3 ft.

Elevation	Surface Area	Volume	Total Volume
628.50	0.00	0.00	0.00
629.00	1,644.00	411.00	411.00
630.00	6,155.00	4,899.50	5,310.50
632.00	27,004.00	35,189.00	40,499.50
633.00	34,520.00	30,762.00	71,261.50

2yr. 24hour peak discharge	Reg. Storage
Area (sq.)	2.8
C	0.5
Int (in/hr)	5.75
Q (cfs)	7.48

25yr. 24hour peak discharge	Reg. Storage
Area (sq.)	2.8
C	0.5
Int (in/hr)	8.25
Q (cfs)	10.73



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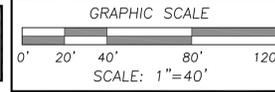
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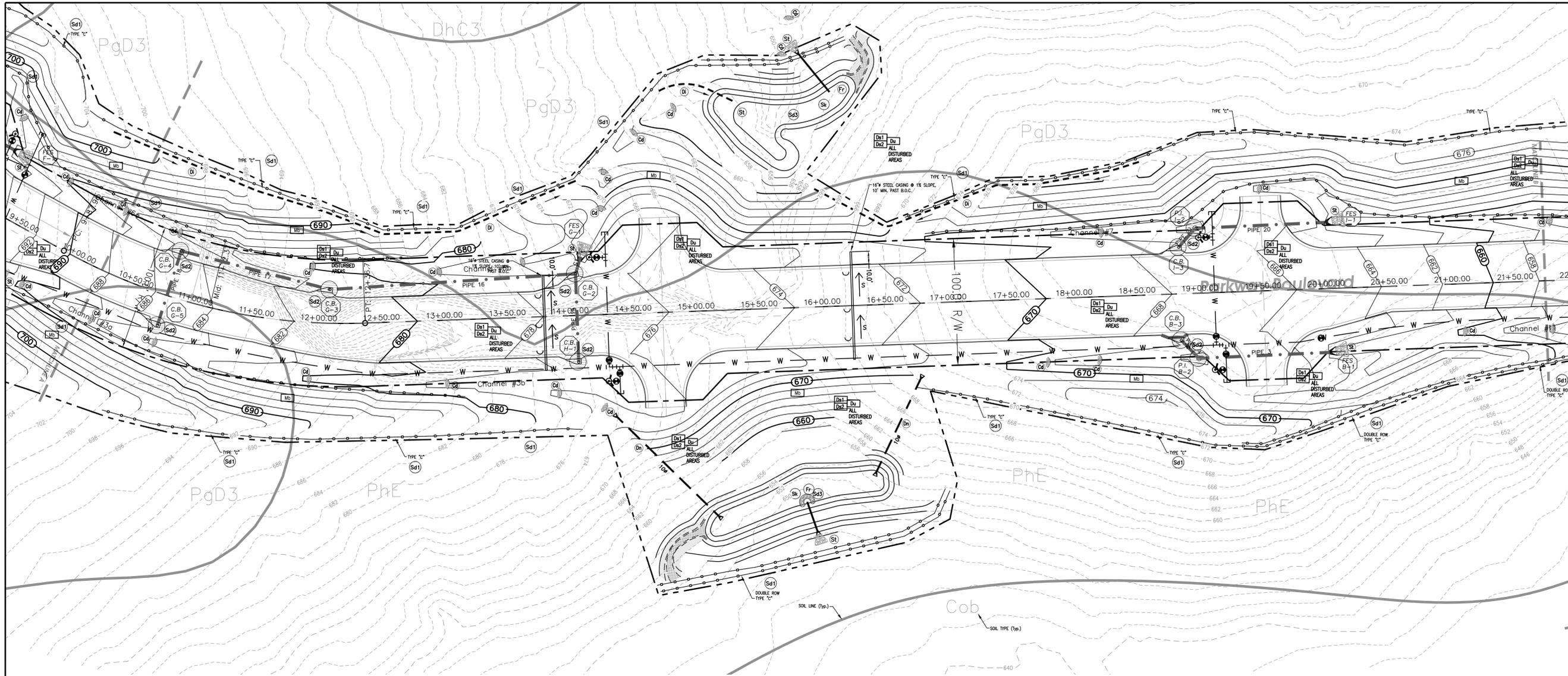
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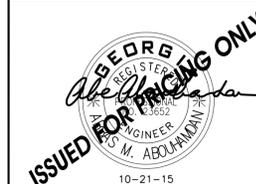
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PARKWAY BOULEVARD EXTENSION

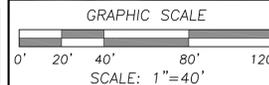
OCONEE CONNECTOR TO PARKWAY BOULEVARD
OCONEE COUNTY, GEORGIA
 ± 8.38 ACRES IN ROW

ES&PC
PHASE II-
INTERMEDIATE
PLAN B



REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
16
35



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

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I, ABE ABUHAMMAN, 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 Abouhamman DATE SIGNED: 10-21-15

ALL DEBRIS TO BE DISPOSED OF OFFSITE IN A LEGAL MANNER. BURNING OF CONSTRUCTION AND LAND CLEARING DEBRIS IS PROHIBITED UNLESS A PROPER PERMIT IS OBTAINED.

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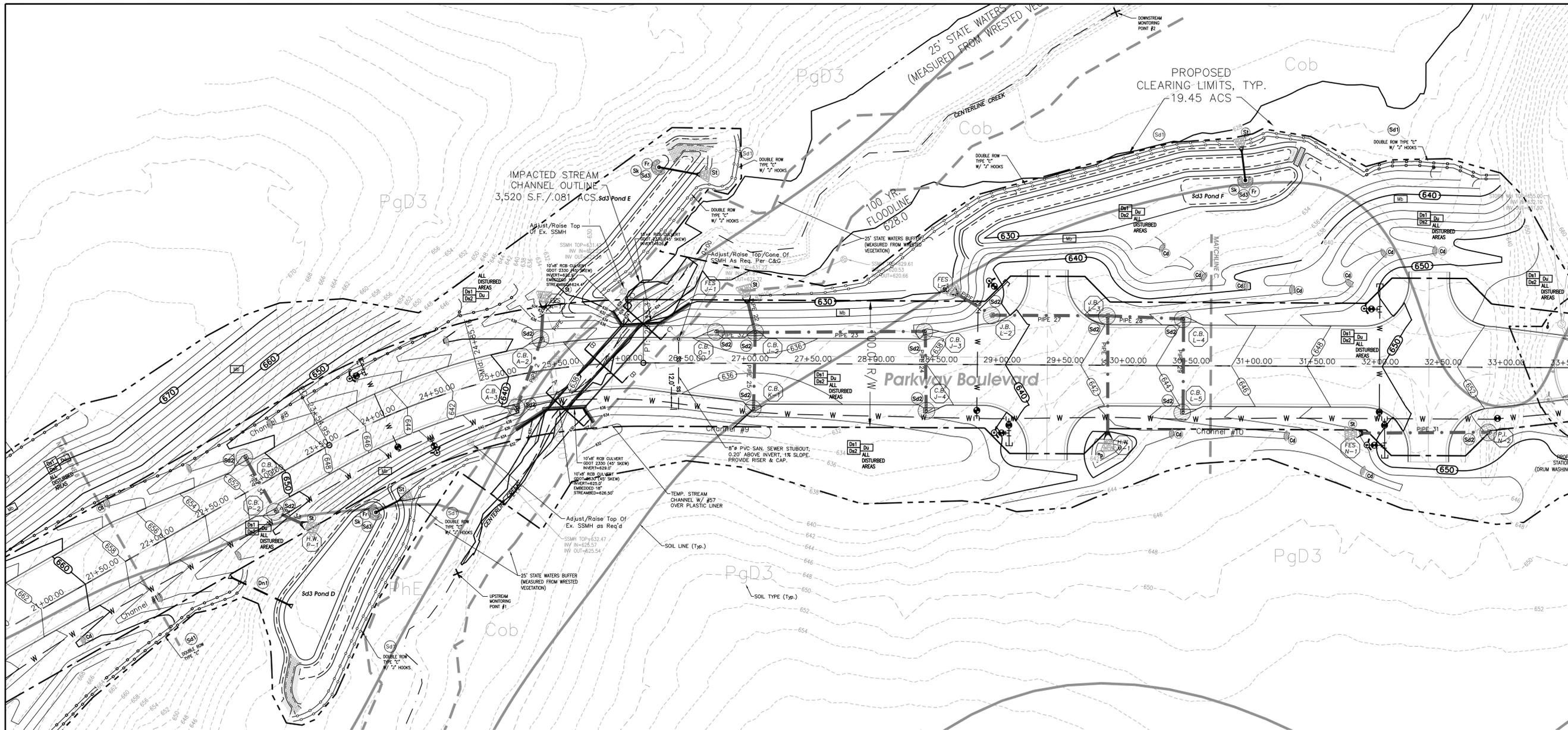
THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL, NUMBER #0000010490
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 1291 GREENSBORO HWY.
 WATKINSVILLE, GA 30677
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PARKWAY BOULEVARD EXTENSION

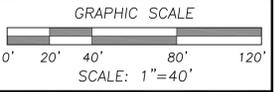
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PHASE II-
INTERMEDIATE
PLAN C



REVISIONS	DATE

DATE: 10-21-15
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SHEET #
17
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"EROSION & SEDIMENTATION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION & SEDIMENTATION CONTROL, ADDITIONAL EROSION & SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."

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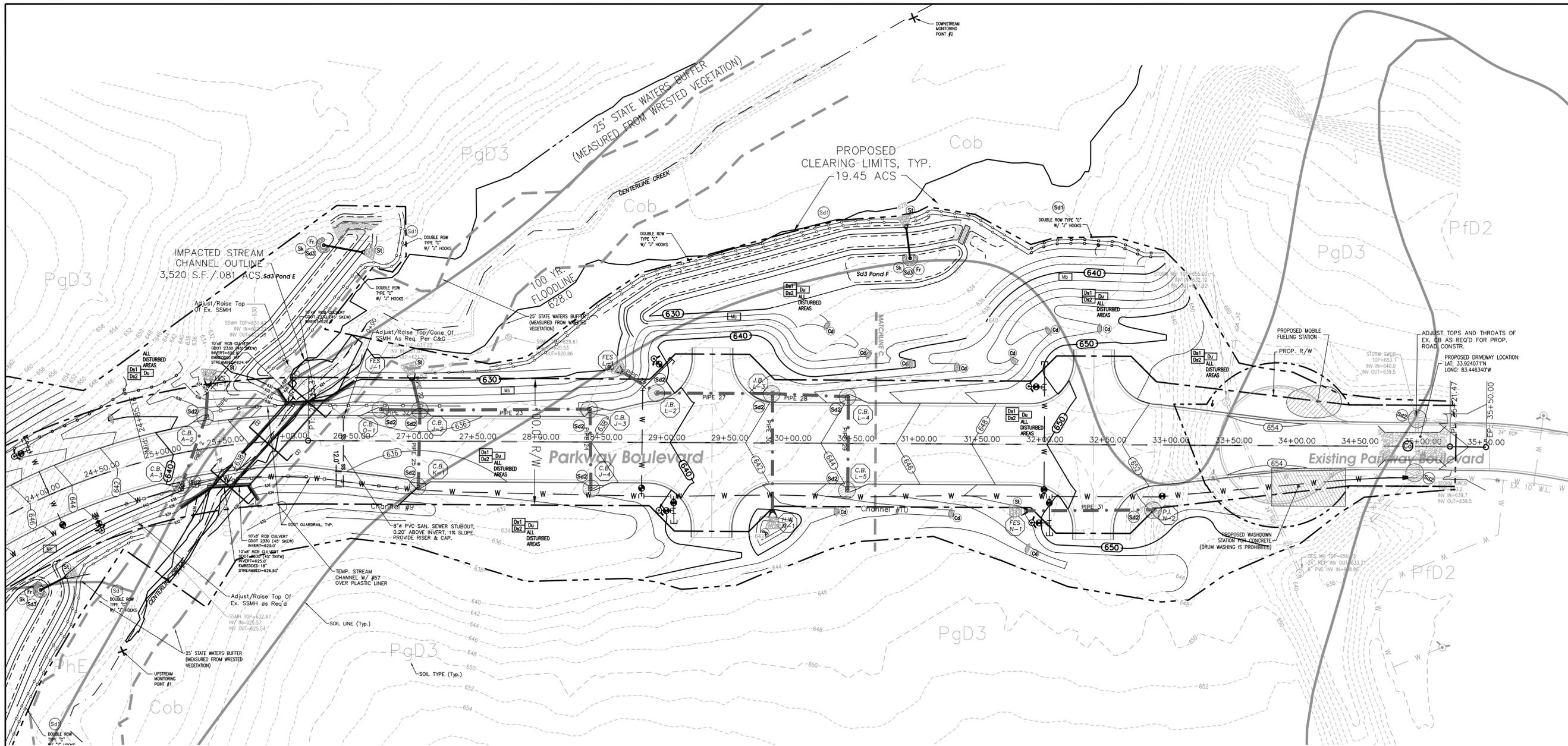
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PARKWAY BOULEVARD EXTENSION

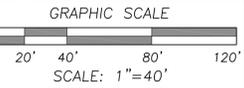
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INTERMEDIATE
PLAN D



REVISIONS	DATE

DATE: 10-21-15
PROJECT #: 14-021-31



SHEET #
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GRID NORTH (GA-WEST)

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

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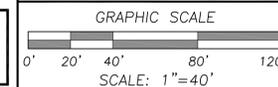
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PHASE III- FINAL
PLAN A

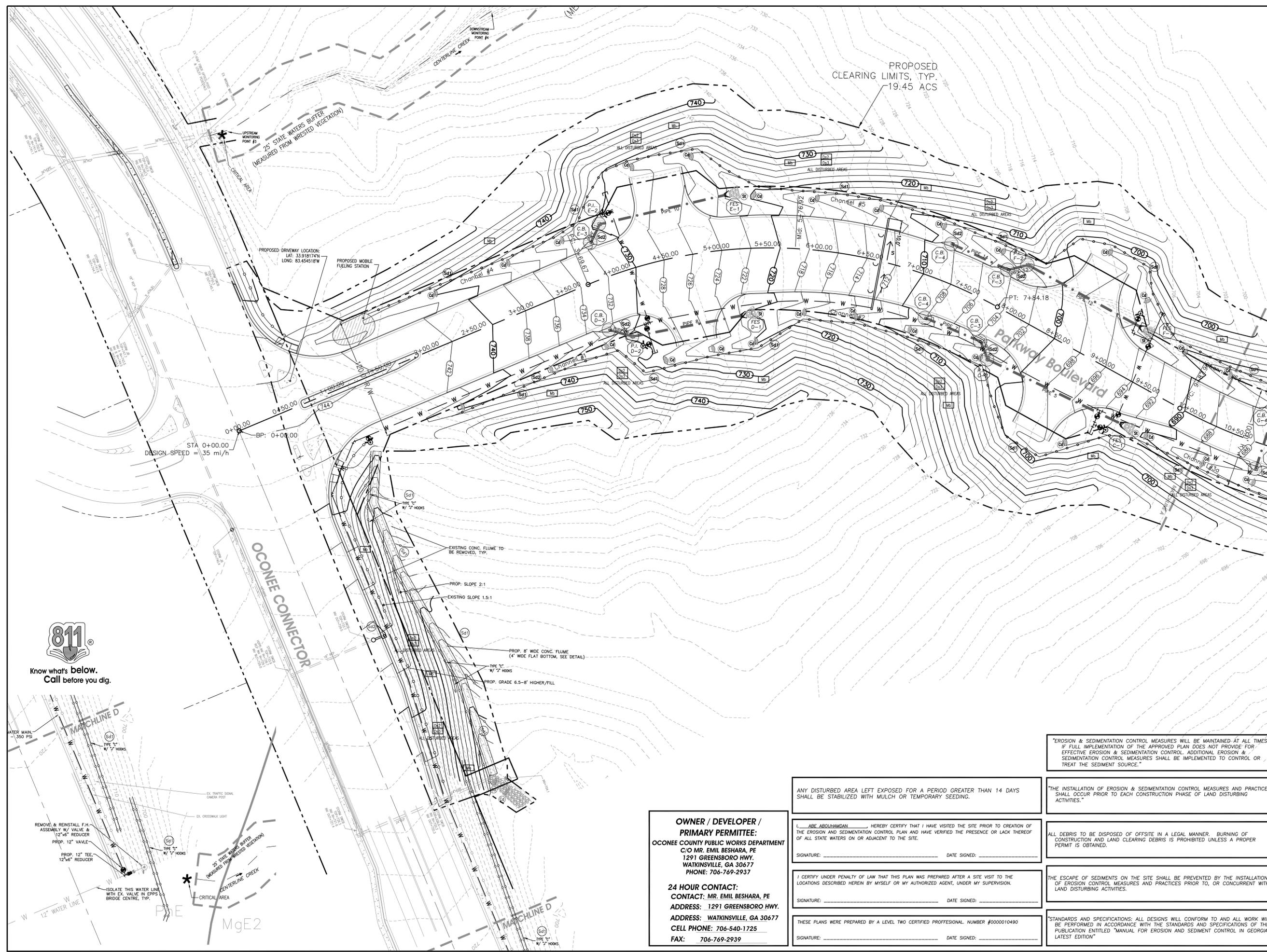


REVISIONS	DATE

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SHEET #
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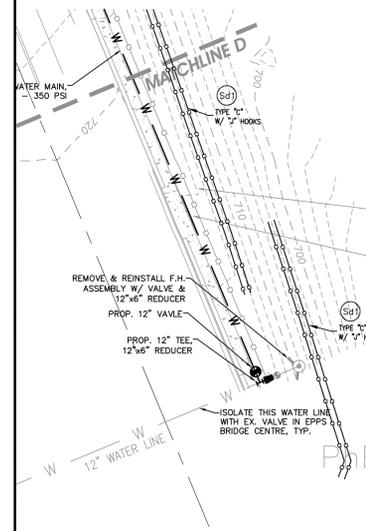
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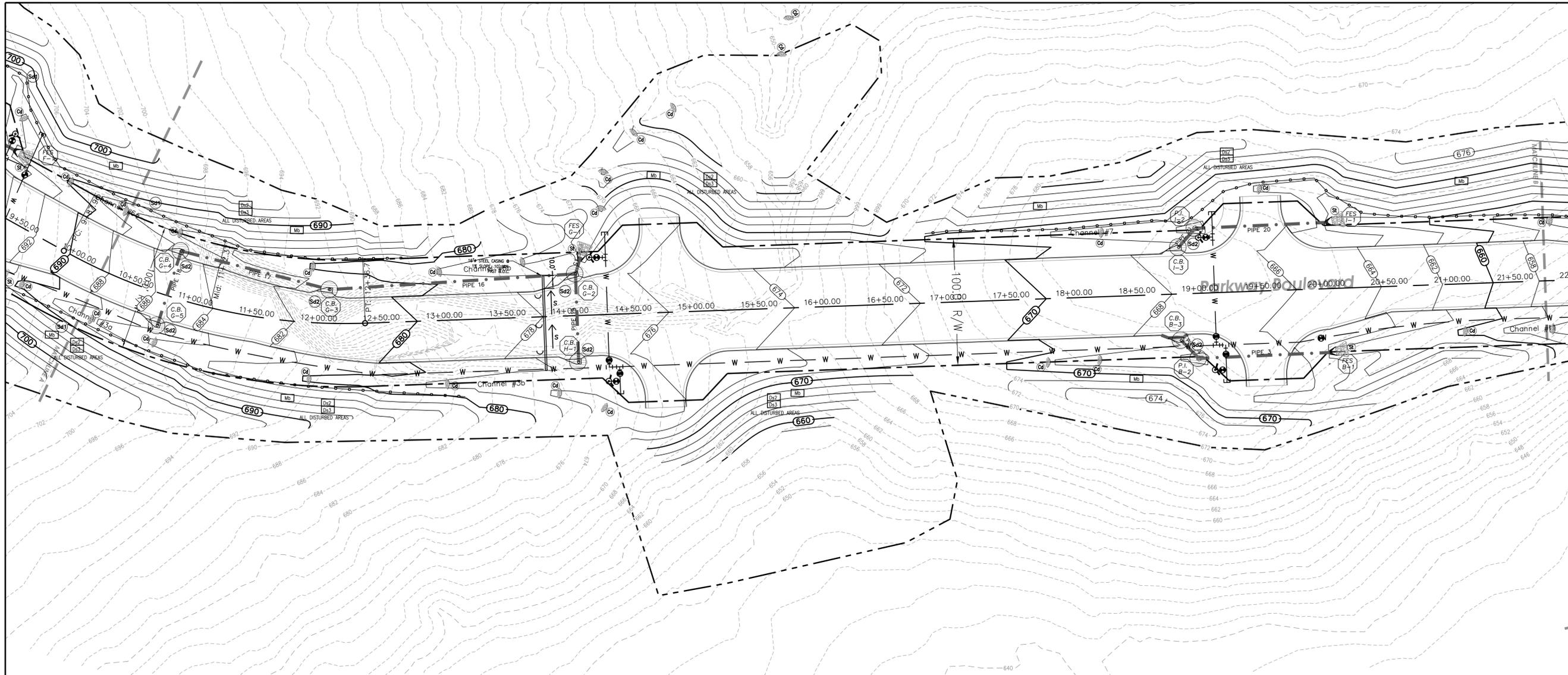
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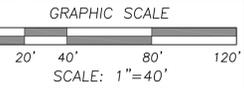
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 PHASE III- FINAL
 PLAN B



REVISIONS	DATE

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20
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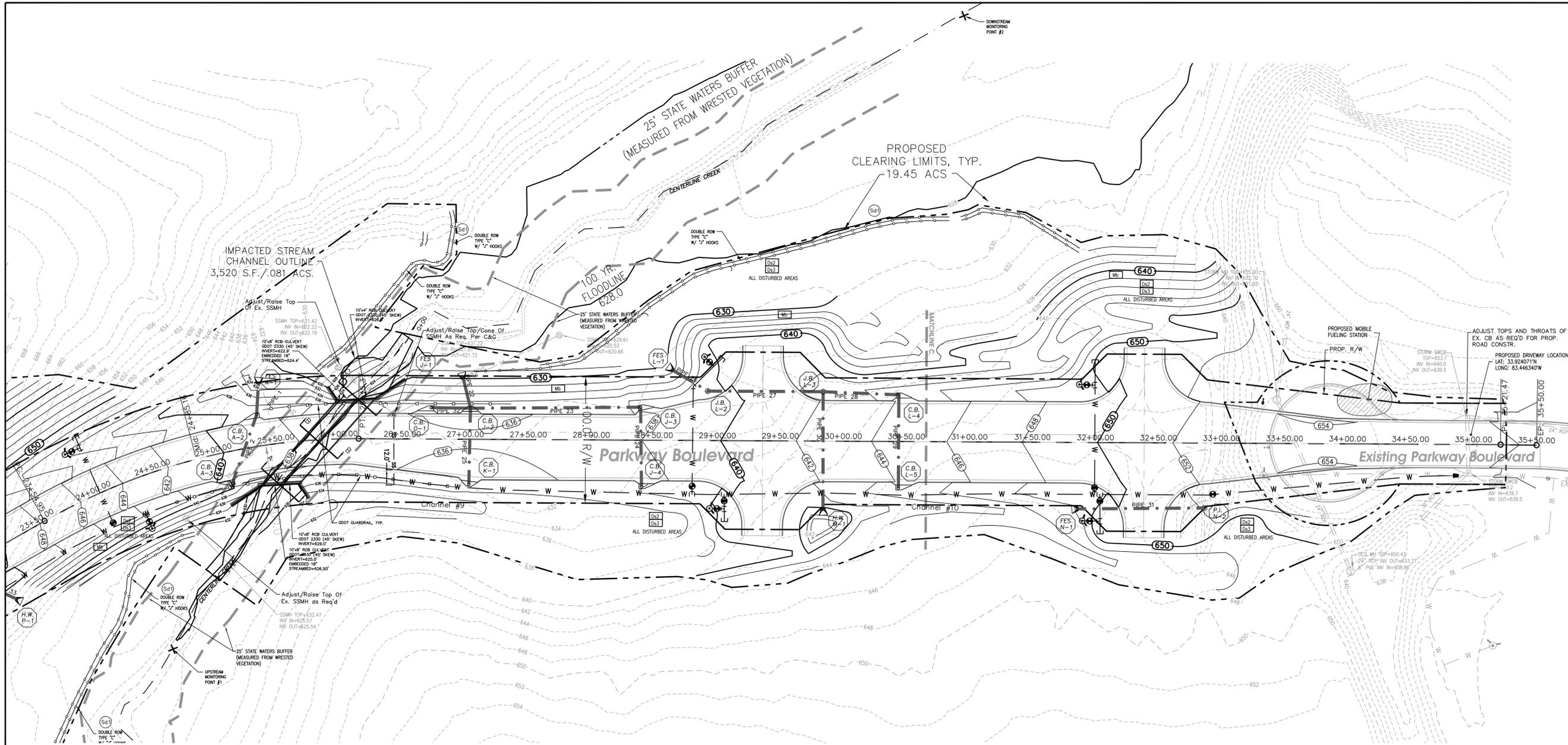
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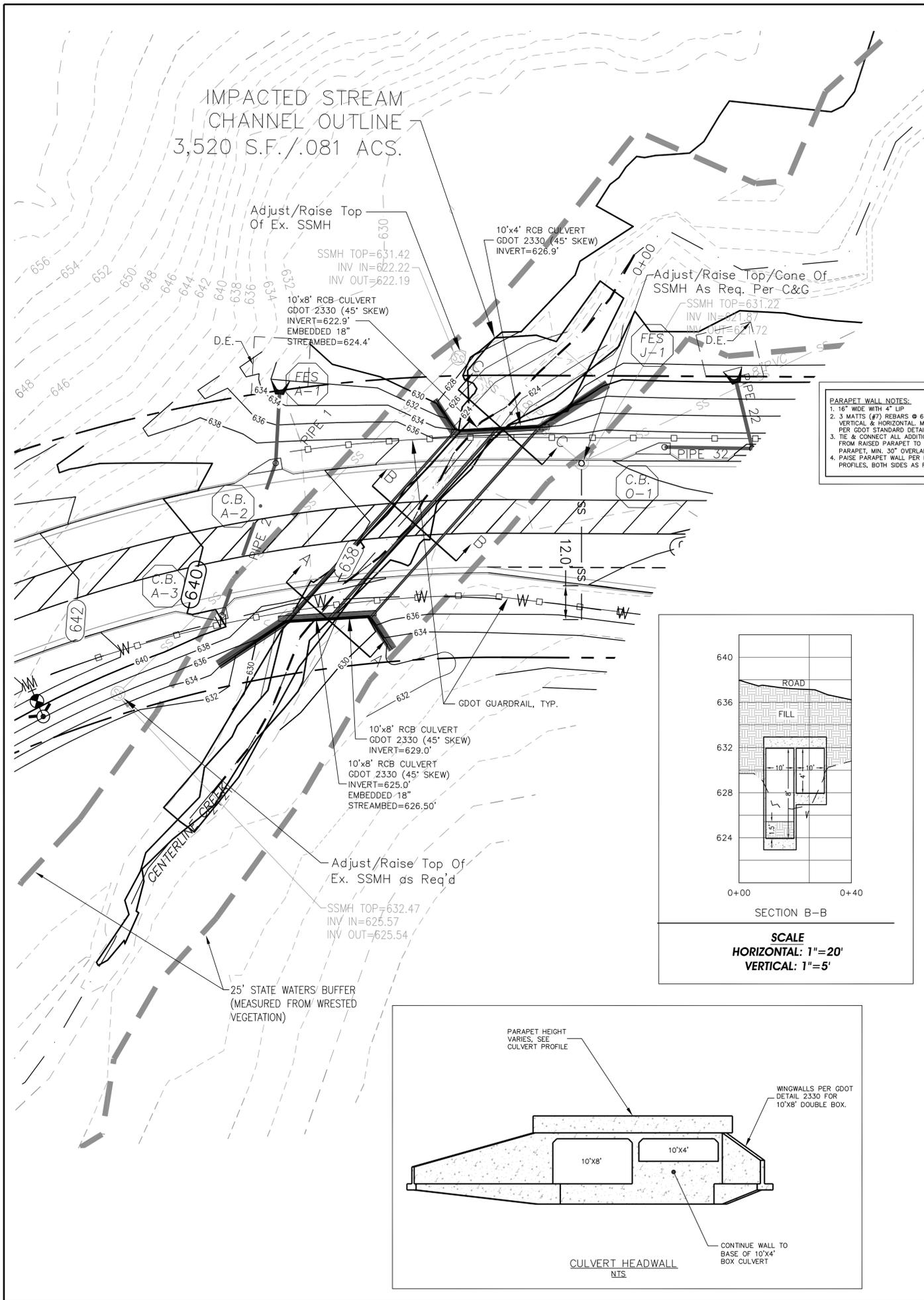
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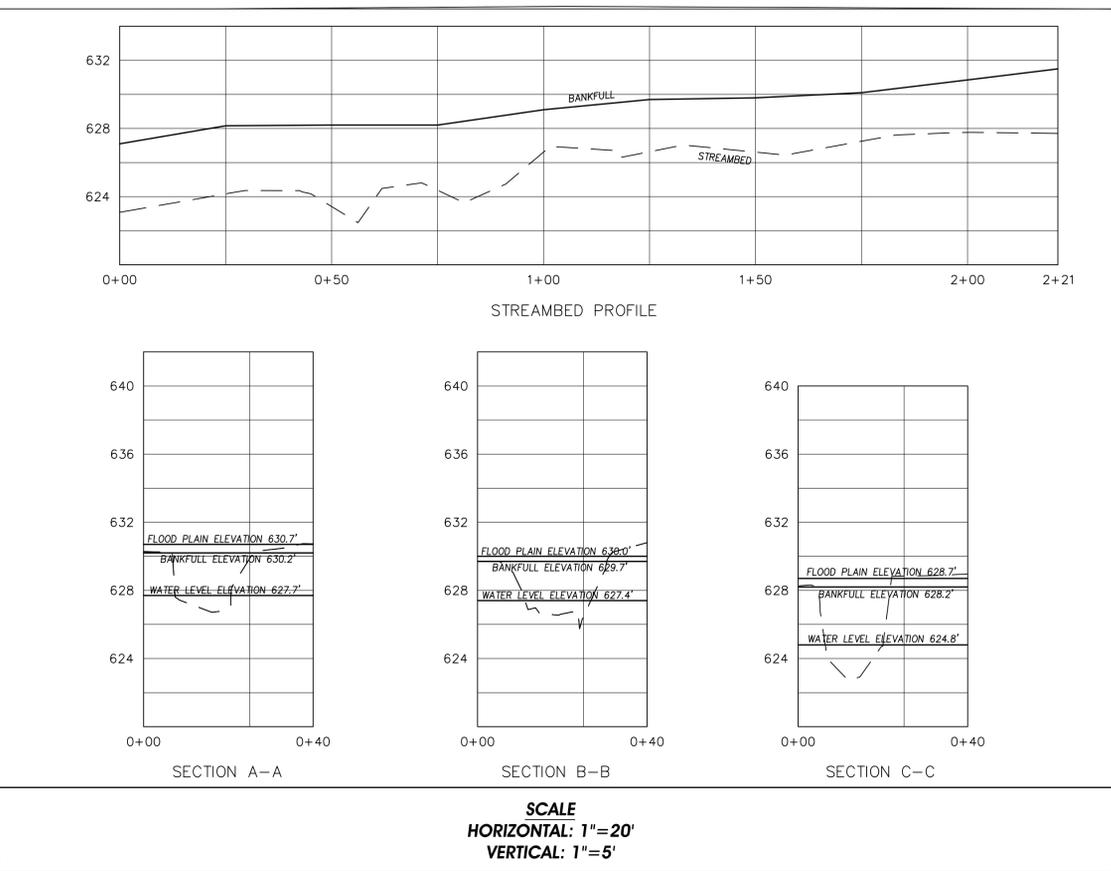
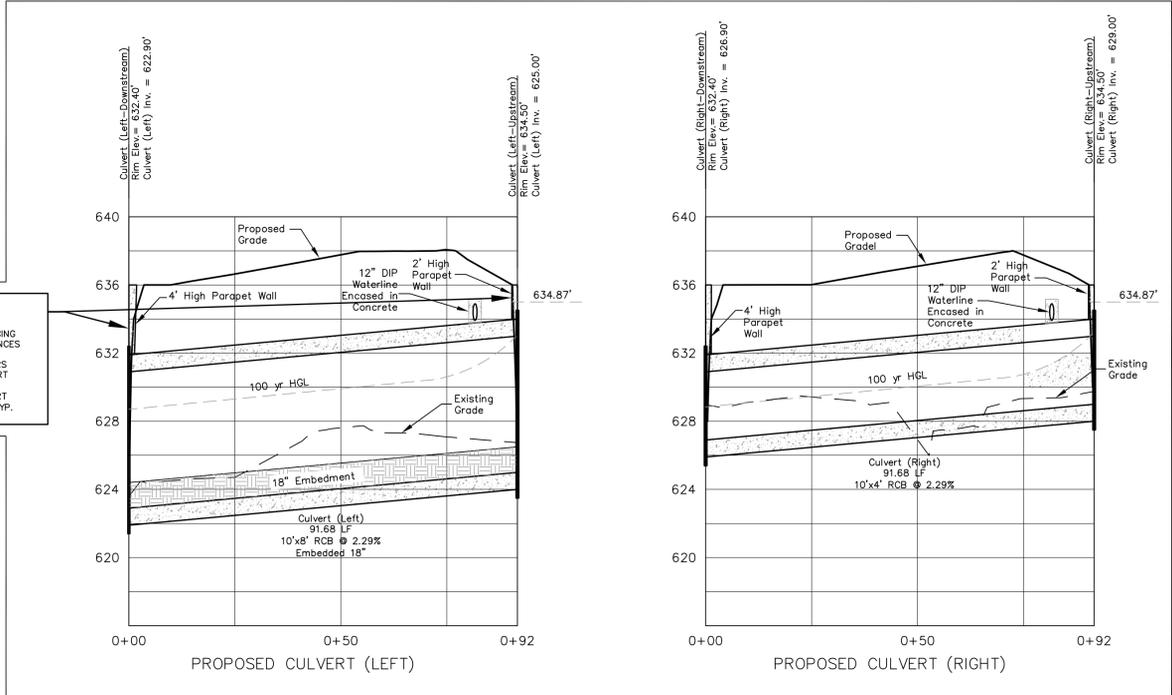
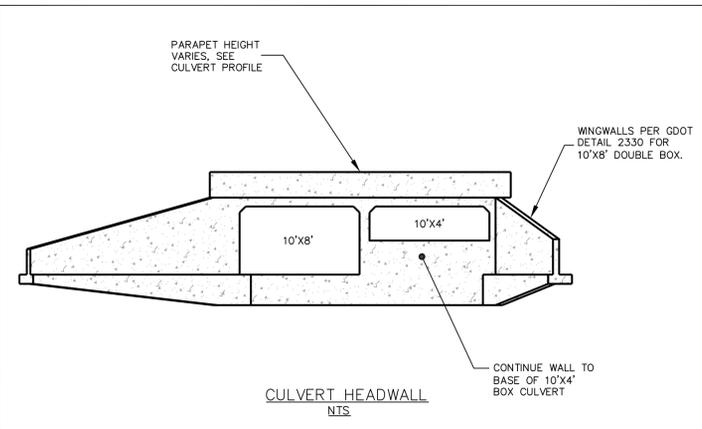
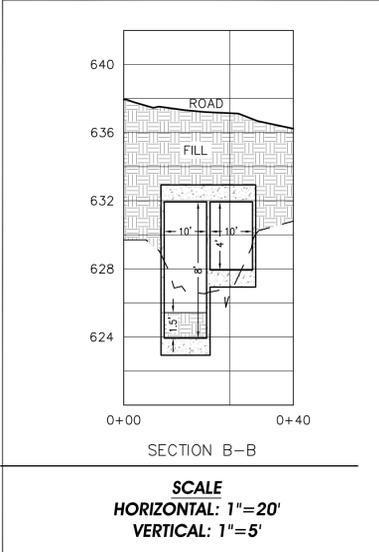
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PARAPET WALL NOTES:
1. 16" WIDE WITH 4" LIP
2. 3 MATS (#7) REBARS @ 6" O.C. SPACING VERTICAL & HORIZONTAL. MIN. CLEARANCES PER GDOT STANDARD DETAILS.
3. TIE & CONNECT ALL ADDITIONAL REBARS FROM RAISED PARAPET TO BOX CULVERT PARAPET. MIN. 30" OVERLAP.
4. PAISE PARAPET WALL PER BOX CULVERT PROFILES, BOTH SIDES AS REQUIRED, TYP.



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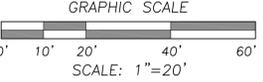
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CULVERT CROSSING



REVISIONS	DATE
...	...

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SOIL EROSION AND SEDIMENT CONTROL NOTES

PROJECT DESCRIPTION

THIS PROJECT INVOLVES CONSTRUCTING A LINEAR TRANSPORTATION PROJECT. THE CONSTRUCTION WILL INCLUDE UTILITIES, INFRASTRUCTURE, LANDSCAPING AND OTHER RELATED ITEMS. CLEARING, GRUBBING, GRADING AND PAVING ACTIVITIES WILL BE PHASED IN AS SHOWN ON THE PLANS. A DBL BOX CULVERT WILL BE CONSTRUCTED OVER AN EX. UNNAMED CREEK. BMPs WILL BE INSTALLED AS SPECIFIED ON THE APPROVED PLANS.

EXISTING SITE CONDITIONS

THIS SITE IS CURRENTLY MOSTLY WOODED. THE SITE HAS SLOPES OF 2%-50%. THERE IS AN EXISTING SANITARY SEWER LINE RUNNING ALONG THE STREAM WITHIN A PORTION OF THE PROJECT AREA. THERE ARE STATE WATERS WITHIN 200' OF SITE BOUNDARY. DRAINAGE PATTERNS FOLLOW LAND TOPOGRAPHY BY SHEET FLOW LEADING TO A UNNAMED TRIBUTARY TO McNUTT CREEK WITHIN THE SITE.

SURROUNDING LAND USE: VACANT AND FUTURE USE TO BE COMMERCIAL.

SOIL SERIES:

- CyC - Cecil Sandy Loam, 6.0 to 10.0 % Slopes, Absorption - 45 min./in., Depth to Bedrock - >72", Depth to Water Table - >72", Erodibility: K = 28 T = 4
- PaD3 - Paollet Sandy Clay Loam, 10.0 to 15.0 % Slopes, Absorption - 30 min./in., Depth to Bedrock - >72", Depth to Water Table - >72", Erodibility: K = 24 T = 2
- Cob - Chewacla soils and Alluvial land, 0.0 to 2.0 % Slopes, Absorption - NA, Depth to Bedrock - >72", Depth to Water Table - >206", Erodibility: K = 24 T = 5
- PaC - Paollet Sandy Clay Loam, 10.0 to 15.0 % Slopes, Absorption - 30 min./in., Depth to Bedrock - >72", Depth to Water Table - >72", Erodibility: K = 20 T = 3
- PhE - Paollet - Gullied land complex, 10.0 to 25.0 % Slopes, Absorption - 35-40 min./in., Depth to Bedrock - >72", Depth to Water Table - >72", Erodibility: K = 24 T = 2
- DhC3 - Davidson Clay Loam, 6.0 to 10.0 % Slopes, Absorption - 30 min./in., Depth to Bedrock - >72", Depth to Water Table - >72", Erodibility: K = 28 T = 5

PROPOSED USE: New Roadway

CURRENT USE: Vacant

7. EROSION AND SEDIMENT CONTROL MEASURES

DISTURBED AREAS WILL BE KEPT TO A MINIMUM. TEMPORARY MULCHING AND GRASSING WILL BE APPLIED TO DISTURBED AREAS DURING CONSTRUCTION. BMPs, SUCH AS SILT FENCE, Cd Co, TEMPORARY AND PERMANENT GRASSING, OUTLET PROTECTION, ETC., WILL BE UTILIZED THROUGHOUT CONSTRUCTION TO CONTROL EROSION. (SEE PLANS FOR BMPs)

8. PERMANENT STABILIZATION

- DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF DISTURBANCE.
- ALL AREAS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED AS SPECIFIED. AREAS TO BE GRASSED SHALL BE FREE OF CONSTRUCTION DEBRIS, BRANCHES, STUMPS, OR STONES. A TOPSOIL LAYER SHALL BE APPLIED AND RAKED PRIOR TO SEEDING OR GRASSING.
- LIME SHALL BE DISTRIBUTED UNIFORMLY IF NEEDED, AT A MINIMUM RATE OF 2,600 LBS. TO 3,000 LBS. PER ACRE. LIME SHALL BE GROUND LIMESTONE (CALCITE OR DOLomite), WITH 90% PASSING THROUGH A 10-MESH SIEVE, NOT LESS THAN 50% PASSING THROUGH A 50-MESH SIEVE, AND NOT LESS THAN 25% PASSING THROUGH A 100-MESH SIEVE.
- WEED SEED SHALL NOT BE MORE THAN 1.5% OF TOTAL SEED. ALL SEED SHALL BE FACTORY PACKED AND TESTED.
- A 10-10-10 FERTILIZER SHALL BE APPLIED UNIFORMLY, AS REQUIRED, OVER DISTURBED AREAS AT THE RATE OF 600-1,000 LBS. PER ACRE MINIMUM.
- HAY OR STRAW OF GOOD QUALITY AND FREE OF DEBRIS SHALL BE APPLIED AS MULCH OVER DISTURBED AREAS. OTHER ACCEPTABLE MULCH MATERIAL MAY BE USED AS SPECIFIED OR APPROVED BY THE ENGINEER. MULCH MAY BE APPLIED BY HAND OR BY MECHANICAL BLOWERS TO OBTAIN A UNIFORM COVERAGE. DEPTH OF HAY SHALL NOT BE LESS THAN 1.5" BUT NO GREATER THAN 2.5". MULCH SHALL BE APPLIED AT 2.0 TO 2.5 TONS PER ACRE. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVERAGE. MULCH SHALL BE STABILIZED IN PLACE BY VARIOUS MEANS SUCH AS TACKING, NETTING, PINS, STAKES, OR OTHER APPROVED METHODS.

9. STORMWATER MANAGEMENT CONSIDERATION

STORM WATER RUNOFF IS COLLECTED THROUGH A SERIES OF CONVEYANCES AND SWALES TO TEMPORARY SEDIMENT BASIN PRIOR TO REACHING THE LOWER PORTIONS OF THE PROPERTY. OUTLET PROTECTION WILL BE PROVIDED AT ALL OUTFALLS. WITH FULL IMPLEMENTATION OF THE CONSTRUCTION PLANS, THERE WILL BE MINIMAL IMPACT OR CHANNEL DEGRADATION DOWNSTREAM.

10. MAINTENANCE PROGRAM

- A. "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY."
- B. EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND AFTER RAINFALL EVENTS. BMPs THAT REQUIRE REPLACEMENT, REPAIR, OR MAINTENANCE SHALL BE ADDRESSED DURING THE SAME DAY, OR THE FOLLOWING DAY BY A RESPONSIBLE CONTRACTOR.
- C. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE DEEMED NECESSARY BY AN ON-SITE INSPECTION.
- D. ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM SEDIMENT BASINS AND SILT FENCES PRIOR TO REACHING 1/3 OF CAPACITY. COLLECTED SEDIMENTS SHALL BE SPREAD EVENLY OVER DISTURBED AREAS.
- E. PERMANENT VEGETATION SHALL BE ESTABLISHED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
- F. EVERY POSSIBLE MEASURE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING STORM INLETS, ADJACENT STREAMS, AND DOWNSTREAM WATER.

11. CALCULATIONS

CALCULATIONS ARE PROVIDED FOR S&S ON THE SESC PLAN SHEETS AND SESC DETAIL SHEET.

SEDIMENT BASIN CALCULATIONS

DISTURBED AREA: 19.45 ACRES
TOTAL AREA DAMAGED: 15.82 ACRES
SEDIMENT VOLUME GENERATED:
19.45 ACRES
x 67 CY./ACRE
1303 CY.

STORAGE PROVIDED:

SEDIMENT PONDS (S&S) A:349 CY, B:248 CY, C:288 CY, D:121 CY, E:135 CY, F:171 CY = 1313.32 CY
TOTAL PROVIDED = 1312 CY

12. THERE ARE NO WETLAND AREAS ON SITE.

13. SPECIFIC PROJECT DATA

- TOTAL PROJECT IN PROPOSED ROW AREA: 8.33 ACRES
- ANTICIPATED DISTURBED AREA: 19.45 ACRES
- ANTICIPATED VOLUME OF SOIL TO BE DISTURBED: 175,800 CY
- PER APPENDIX B, 50 IS THE ALLOWABLE NTU VALUE FOR THE SITE BASED ON A DISTURBED AREA OF 19.45 ACRES AND SURFACE WATER DRAINAGE AREA OF 0.06 SQUARE MILES.

14. FIRM MAP: 13219 C0065.D, DATED SEPT. 2, 2009.

15. THIS SITE DOES LIE WITHIN THE 100-YEAR FLOOD LIMITS.

16. SOIL EROSION PROGRAM IMPLEMENTATION

- A. "STANDARD AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA."
- B. INSTALLATION OF BMPs AS SPECIFIED AND PHASED ON THE APPROVED DRAWINGS SHALL BE INSTALLED PRIOR TO, OR AS SOON AS FEASIBLY POSSIBLE, DURING CLEARING ACTIVITIES. GRADING SHALL NOT COMMENCE UNTIL BMPs HAVE BEEN CONSTRUCTED ON SITE.
- C. BMPs INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, CONSTRUCTION EXITS, TEMPORARY SEDIMENT PONDS, TEMPORARY AND PERMANENT GRASSING, MULCHING, OUTLET PROTECTIONS, SLOPE STABILIZING, JUTE MATTING, CHECK DAMS, SURFACE ROUGHENING, DIVERSION DITCHES, DOWNDRAINS, ETC.
- D. BMPs SHALL BE INSTALLED IN STRICT ADHERENCE TO THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLANS. CONSTRUCTION MAY IN SOME CASES BE STOPPED DUE TO IMPROPER INSTALLATION AND MAINTENANCE OF BMPs.
- E. EROSION CONTROL MEASURES SHALL BE ADAPTED TO CONSTRUCTION AND SITE CONDITIONS AS RECOMMENDED BY ENGINEER OR QUALIFIED INSPECTORS.
- F. SLOPES WITH 2 HORIZONTAL TO 1 VERTICAL (2:1) THAT CREATE OVER 8 FEET IN ELEVATION DIFFERENCE SHALL BE STABILIZED WITH JUTE MATTING OR EQUIVALENT PRODUCT.
- G. A "NOTICE OF INTENT" (NOI) SHALL BE SUBMITTED TO THE PROPER AGENCY AS REQUIRED BY N.P.D.E.S. FOR ALL PROJECTS WITH OVER 1.0 ACRES OF DISTURBED AREA.
- H. BMPs ARE CONSIDERED TEMPORARY AND SHALL BE REMOVED AFTER PROJECT COMPLETION, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- I. DISTURBED AREAS THAT ARE NOT UNDER CONSTRUCTION MUST BE STABILIZED WITHIN 14 DAYS OF DISTURBANCE.
- J. TOPSOIL SHALL BE COLLECTED AND STOCKPILED ON SITE. A UNIFORM LAYER OF DEBRIS-FREE TOPSOIL SHALL BE UNIFORMLY SPREAD OVER DISTURBED AREAS TO ENHANCE VEGETATION GROWTH.
- K. PRIOR TO ANY LAND DISTURBANCE, TREE-SAVE AREAS SHALL BE OUTLINED AND WELL-PROTECTED BY ORANGE FENCING AS SPECIFIED ON DRAWINGS.

17. LOCAL AGENCY NOTIFICATION

OCONEE COUNTY BUILDING DEPARTMENT SHALL BE NOTIFIED PRIOR TO STARTING CONSTRUCTION AT 706-769-3907.

OCONEE COUNTY CODE ENFORCEMENT SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING CONSTRUCTION

18. PROJECT LOCATION

THE PROJECT IS LOCATED OFF THE OCONEE CONNECTOR IN OCONEE COUNTY. OTHER THAN THE FRONTAGE ON THE R.O.W. ON THE OCONEE CONNECTION & EXTENSION OF EXISTING ROW, THE SITE IS BORDERED BY PRIVATELY OWNED PROPERTIES.

19. SOIL SURVEY SHEET NO: OCONEE

20. 24-HOUR CONTACT: MR. EMIL BESHARA P.E., ENGINEERING DIRECTOR
OCONEE COUNTY PUBLIC WORK DEPARTMENT

ADDRESS: 1291 GREENSBORO HIGHWAY
WATKINSVILLE, GA. 30677
706-769-2937
FAX: 706-769-2939

24-HOUR PHONE: CELL# 706-540-1725

NPDES PERMIT NO. GAR 100002 - NOTES AND REQUIRED PROCEDURES.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL), PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATERS OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

Abel Aboubada
SIGNATURE

PERMITTEE SHALL PROVIDE IS & PC PLAN COPIES TO ALL SECONDARY PERMITTEES PRIOR TO THE SECONDARY PERMITTEES CONDUCTING ANY CONSTRUCTION ACTIVITIES.

EVIDENCE SHALL BE OBTAINED BY THE PRIMARY PERMITTEE FROM ALL SECONDARY PERMITTEES THAT THEY EACH RECEIVED A COPY OF THE ES & PC PLANS.

PRIMARY PERMITTEES SHALL PROVIDE A LIST OF ALL SECONDARY PERMITTEES TO EPD. SECONDARY PERMITTEES SHALL BE RESPONSIBLE FOR SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI).

DESIGN PROFESSIONAL WHO PREPARED THE ES & PC PLANS SHALL CONDUCT A SITE VISIT TO INSPECT THE INSTALLATION OF BEST MANAGEMENT PRACTICES (BMPs) WITHIN 7 DAYS AFTER THE INITIAL CONSTRUCTION ACTIVITIES STARTS.

REFER TO THE PROJECT STORM WATER MANAGEMENT REPORT FOR DETAILED INFORMATION REGARDING THE SITE MAP INDICATING DRAINAGE PATTERNS, DISCHARGE POINTS AND PEAK RUNOFF FLOWS.

CONSTRUCTION WASTE MATERIALS INCLUDING BUT NOT LIMITED TO BUILDING MATERIALS, CONSTRUCTION DEBRIS, OLD SOIL EROSION FENCING AND POST, AND OTHER SOLID WASTE SHALL NOT BE DISCHARGED TO STATE WATERS UNLESS AS AUTHORIZED BY SECTION 404 PERMIT. ALL CONSTRUCTION WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT A PERMITTED SOLID WASTE MANAGEMENT FACILITY.

DUST CONTROL SHALL BE PROVIDED DURING CONSTRUCTION BY THE CONTRACTOR, AS REQUIRED DURING DRY WEATHER SEASON AND DRY CONDITIONS ON SITE. THE CONTRACTOR SHALL APPLY WATER BY SPRAYING OVER DISTURBED AREAS THAT ARE POTENTIAL FOR CREATING DUST DURING CONSTRUCTION. OTHER METHOD OF CONTROLLING DUST MAY BE IMPLEMENTED INCLUDING BUT NOT LIMITED TO PLACING A TEMPORARY GRAVEL OR CRUISER RUN LAYER OVER DISTURBED AREAS THAT HAVE POTENTIAL DUST PROBLEM.

THE ES & PC PLAN SHALL BE IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. TO THE BEST OF OUR ABILITIES AND KNOWLEDGE, THE ES & PC HAS BEEN PREPARED IN COMPLIANCE WITH THE COUNTY HEALTH DEPARTMENT REGULATIONS.

FUELING OF CONSTRUCTION EQUIPMENT SHALL BE DONE BY MOBILE FUELING TRANSPORT UNITS. HOWEVER, FUELING OF CONSTRUCTION EQUIPMENT SHALL BE CONDUCTED AT THE LOCATIONS SPECIFIED ON THE ES & PC PLANS. THE DESIGNATED FUELING LOCATIONS SHALL BE CONSTRUCTED TO CONTROL ANY SPILL OR LEAK IN A CONTAINMENT AREA. THESE AREAS SHALL HAVE SECONDARY CONTAINMENT BY MEANS OF CLAY LINER AND BERMS AS REQUIRED. REFER TO THE DETAIL PROVIDED ON THE PLANS FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

NON-EXEMPT LAND DISTURBING ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25' OR 50' UNDISTURBED STREAM BUFFERS, AS MEASURED FROM WRESTED VEGETATION, UNLESS ALL VARIANCES AND PERMITS HAVE BEEN APPROVED OR AUTHORIZED BY EPD AND OTHER PERMITTING AGENCIES, AS REQUIRED.

ES&PC PLAN AMENDMENTS OR REVISIONS DURING CONSTRUCTION THAT HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

SAMPLING RATIONALE

SAMPLING SHALL BE PERFORMED AT THE MONITORING POINT(S) SPECIFIED ON THE ES & PC PLANS. SAMPLING UPSTREAM & DOWNSTREAM AT THE CREEK THAT IS BEING CROSSED IS SELECTED. UPSTREAM & DOWNSTREAM SAMPLING HAS BEEN CHOSEN SINCE THIS IS THE CRITICAL AREA OF DISCHARGE POINTS. ALL OTHER OUTFALL POINTS ARE GREATER THAN 200 FEET FROM STREAMS OR STATE WATERS. 50% IS ALLOWED BY DAMAGED AREA, BUT A TOTAL DIFFERENCE OF 25 NTU IS ALLOWED AT THE CREEKS BETWEEN UPSTREAM & DOWNSTREAM MONITORING POINTS.

- THE OVERALL SITE AREA IS 8.33 ACRES IN PROPOSED ROW
- PROJECT CONSTRUCTION AREA: 19.45 ACRES (DISTURBED AREA)
- SURFACE WATER DRAINAGE AREA: 0.06 SQ. MILES
- TYPE OF RECEIVING WATERS: SUPPORTING WARM WATER FISHERIES

NOTICE OF INTENT (NOI)

1. COMPLETE AND SUBMIT NOI, AND ALL REQUIRED FEES TO EPD, MINIMUM 14 DAYS PRIOR TO START OF CONSTRUCTION

QUALIFIED PERSONNEL REQUIREMENTS

- WEEKLY INSPECTIONS
- SAMPLING IS REQUIRED BY PERMIT
- MONTHLY REPORTS, COMPLETIONS, AND SUBMITTAL TO EPD
- 7 DAY INSPECTION AFTER START OF CONSTRUCTION BY DESIGNER OR ENGINEER

FINAL STABILIZATION

- SITE MUST BE 70% STABILIZED, MINIMUM
- EROSION AND SEDIMENT CONTROL PROBLEMS ARE SOLVED
- FINAL INSPECTION COMPLETED
- PROJECT CLOSE OUT

NOTICE OF TERMINATION (NOT)

- FINAL STABILIZATION COMPLETED
- NOI FORM FILLED OUT AND SUBMITTED TO EPD

INSPECTIONS:

- NOI (NOI AND NOI)
- COMPLETE AND SUBMIT NOI TO EPD
- PAY ALL REQUIRED FEES TO EPD
- SUBMIT NOI AND FEES TO EPD A MINIMUM OF 14 DAYS PRIOR TO START OF CONSTRUCTION

A. PRIMARY PERMITTEE

- INSPECTIONS SHALL BE CONDUCTED UNTIL A NOT IS SUBMITTED
- ALL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL
- DAILY
 - (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; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH TWENTY-FOUR HOUR PERIOD AT THE SITE.
- WEEKLY AND WITHIN 24-HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER
 - (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES.
- MONTHLY
 - THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION - THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS; EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
- ES AND PC PLAN CHANGE
 - BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE ES AND PC PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THIS PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.3.B.(4). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
- REPORTS
 - A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAMES OF PERSONNEL MAKING EACH INSPECTION, THE DATES OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.4.(4) 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 BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

B. SECONDARY PERMITTEE

- INSPECTIONS SHALL BE CONDUCTED UNTIL A NOT IS SUBMITTED
- ALL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL
- DAILY
 - (A) ALL AREAS AT THE SECONDARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE SECONDARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.
- WEEKLY AND WITHIN 24-HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER
 - (A) DISTURBED AREAS OF THE SECONDARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE SECONDARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. FOR AREAS OF A SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.B.(4). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.
- MONTHLY
 - THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION - THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS; EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS OF RECEIVING WATERS; THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.
- ES AND PC PLAN CHANGE
 - BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPs WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE SECONDARY PERMITTEE MUST NOTIFY AND OBTAIN A COPY OF THE AMENDMENT TO THE PLAN FROM THE PRIMARY PERMITTEE (AS APPLICABLE TO ALL AFFECTED SECONDARY PERMITTEES) WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITES) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE.
- REPORTS
 - A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAMES OF PERSONNEL MAKING EACH INSPECTION, THE DATES OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.4.(4) 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 BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE ES AND PC PLAN AND THIS PERMIT. THIS REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.

C. TERTIARY PERMITTEE

- INSPECTIONS SHALL BE CONDUCTED UNTIL A NOT IS SUBMITTED
- ALL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL
- DAILY
 - (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THE PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.
- WEEKLY AND WITHIN 24-HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER
 - (A) DISTURBED AREAS OF THE TERTIARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE TERTIARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. FOR AREAS OF A SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.B.(4). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.
- MONTHLY
 - INSPECT THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS; EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS OF RECEIVING WATERS; THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.
- ES AND PC PLAN CHANGE
 - BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE TERTIARY EROSION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THIS PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART V.A.4.(4) 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 BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE ES AND PC PLAN AND THIS PERMIT. THIS REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.
- REPORTS
 - A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAMES OF PERSONNEL MAKING EACH INSPECTION, THE DATES OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.4.(4) 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 BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE ES AND PC PLAN AND THIS PERMIT. THIS REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS.

A. SAMPLING METHODS

- CLEAN RUBBER GLOVES SHALL BE USED DURING SAMPLING.
- CLEAN GLASS CONTAINERS WITH LARGE OPENING SHALL BE USED TO GRAB SAMPLES. CONTAINERS SHALL BE CLEANED WITH CLEAN WATER AND THEN RINSED WITH DISTILLED WATER PRIOR TO USE. LABEL SAMPLE CONTAINERS BEFORE SAMPLING.
- DO NOT DILUTE SAMPLE
- TURBIDIMETER SHALL BE CALIBRATED
- SAMPLING METHOD SHALL BE "GRAB SAMPLES" IN ACCORDANCE WITH PROCEDURES ESTABLISHED BY 40 CFR PART 136; THE GUIDANCE DOCUMENT EPA 833-82-001 AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY EPD
- SAMPLES MUST BE ANALYZED NO LATER THAN 48 HOURS AFTER GRAB USING A DIRECT READ, PROPERLY CALIBRATED TURBIDIMETER.
- USE SAFETY PRECAUTIONS DURING SAMPLING.
- COLLECT SAMPLES WHERE STREAM OR FLOW IS WELL MIXED.
- SAMPLE FROM HORIZONTAL AND VERTICAL CENTER OF PERMITTEE MUST COMPLY WITH PART IV.D.3.B.(4).
- DO NOT STIR SEDIMENT AT BOTTOM OF STREAM OR DISCHARGE CHANNEL.
- FACE SAMPLING CONTAINERS UPSTREAM
- KEEP SAMPLES FREE OF FLOATING DEBRIS
- DO NOT TOUCH INSIDE OF SAMPLING CONTAINERS
- RESULTS OF SAMPLES ANALYZED MUST BE REPORTED IN NTUS (NEPHLOMETRIC TURBIDITY UNITS)
- 0 SAMPLES MUST BE TAKEN BY QUALIFIED PERSONNEL
- SAMPLES MUST BE TAKEN WITHIN 12 HOURS AFTER THE BEGINNING OF A STORM
- CHAIN OF CUSTODY SHALL BE MAINTAINED FOR SAMPLES TO BE ANALYZED BY A THIRD PARTY LABORATORY. THIRD PARTY LABORATORY SHALL BE APPROVED BY THE STATE TO PERFORM NECESSARY TESTING FOR TURBIDITY.

B. SAMPLING FREQUENCY:

- ONE SAMPLE AT EACH MONITORING LOCATION AFTER 0.5" OR GREATER RAINFALL EVENT AFTER ALL CLEARING AND GRUBBING ACTIVITIES HAVE BEEN COMPLETED; SAMPLING SHALL BE DONE DURING NORMAL BUSINESS HOURS (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM) WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE.
- ONE SAMPLE AT EACH MONITORING LOCATION AFTER 0.5" OR GREATER RAINFALL EVENT THAT OCCURS LITTLER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED WITHIN THE DRAINAGE BASIN, WHICHEVER COMES FIRST.
- ADDITIONAL SAMPLES WILL BE REQUIRED IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED. CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITH 2 BUSINESS DAYS AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.50 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.
- NOTE: UPSTREAM SAMPLE MAY BE TAKEN AT ANY TIME DURING OR BEFORE CONSTRUCTION. IT IS HIGHLY RECOMMENDED THAT A SAMPLE BE TAKEN UPSTREAM PRIOR TO CONSTRUCTION.

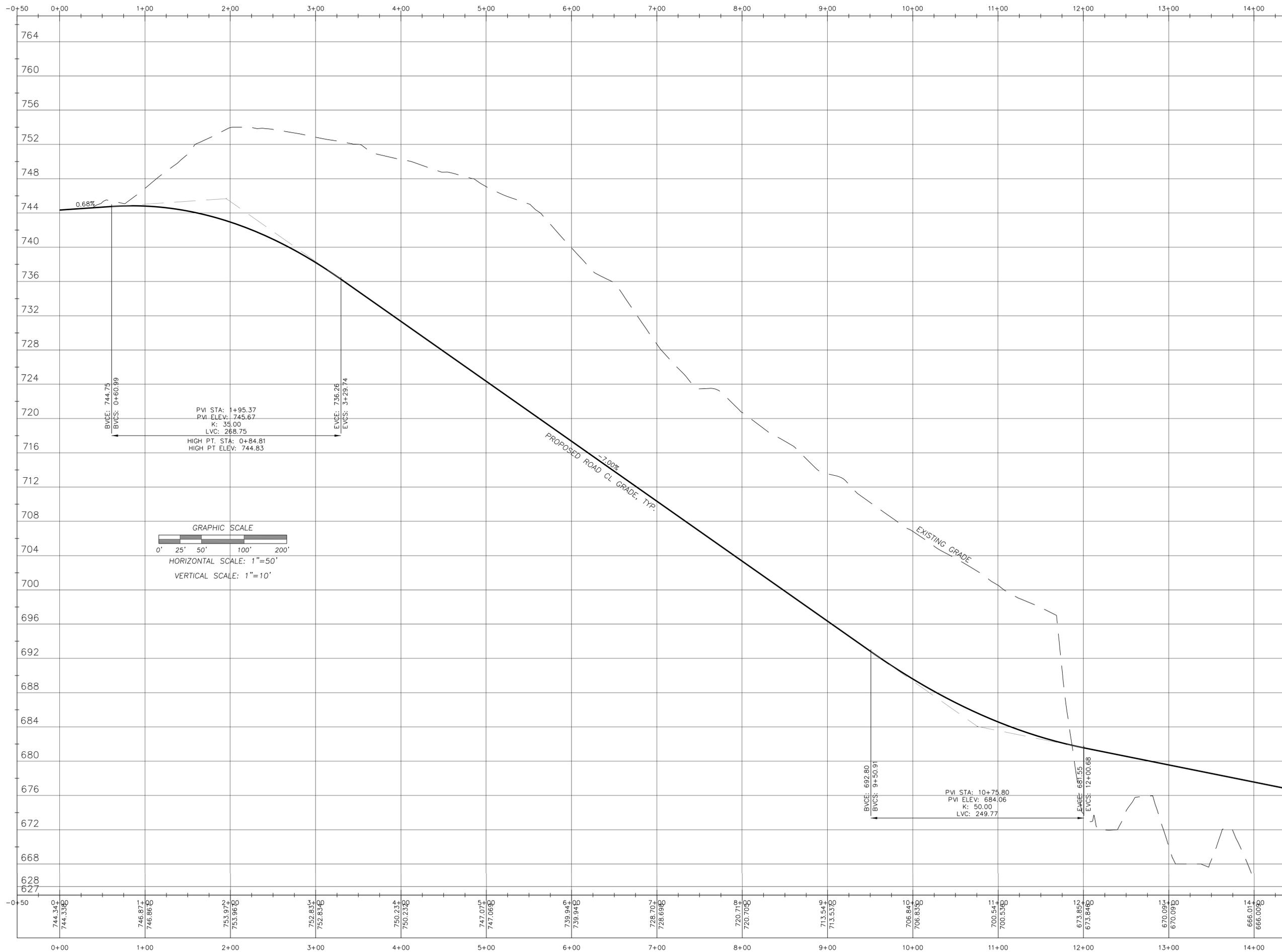
C. REPORTING:

- ALL MONITORING RESULTS SHALL BE SUBMITTED TO EPD AT THE ADDRESS DESIGNATED FOR THE NOI SUBMITTAL OR THE LOCAL EPD OFFICE BY THE FIFTEENTH OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN. SAMPLING RESULTS SHALL BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF PERMIT NO. GAR 100002.
- COPIES OF ALL MONITORING RESULTS REPORTING WHICH IS MAINTAINED BY THE PERMITTEE.
 - DATE AND EXACT PLACE AND TIME OF SAMPLING.
 - NAME OF INDIVIDUAL WHO PERFORMED THE SAMPLING.
 - DATE ANALYSIS WERE PERFORMED.
 - TIME ANALYSIS WERE INITIATED.
 - THE NAME OF THE INDIVIDUAL WHO PERFORMED THE ANALYSES.
 - REFER WRITTEN PROCEDURE WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USE.
 - THE RESULTS OF SUCH ANALYSES, INCLUDING SHEETS, INSTRUMENTS READOUTS, COMPUTER DISKS, ETC. USED TO DETERMINE THESE RESULTS.
 - RESULTS WHICH EXCEED 1000 UNTL SHALL BE REPORTED AS "EXCEEDING 1000 NTU"

D. RETENTION OF RECORDS:

- A COPY OF ES AND PC PLAN SHALL BE RETAINED BY THE PRIMARY PERMITTEE ON SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL DATE OF FINAL STABILIZATION.
- A COPY OF APPLICATIONS AND PC PLAN AMENDMENTS AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.4.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE DESIGNATED ALTERNATE LOCATION UNTIL DATE OF FINAL STABILIZATION.
- COPIES OF NOIS, NOIS, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, RECORDING AND CALIBRATION RECORDS, ES AND PC PLANS TERTIARY EPC, DATE USED FOR NOI AND ALL OTHER RECORDS OF GAR 100002 SHALL BE RETAINED BY THE PRIMARY PERMITTEE FOR A PERIOD OF NO LESS THAN THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THESE RECORDS SHALL BE MAINTAINED AT THE PRIMARY PERMITTEE'S PLACE OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTEE'S SITE.

PETROLEUM SPILL NOTES:



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PARKWAY BOULEVARD EXTENSION

OCONEE CONNECTOR TO PARKWAY BOULEVARD
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 ±8.38 ACRES IN ROW

ROADWAY PROFILE SHEET A



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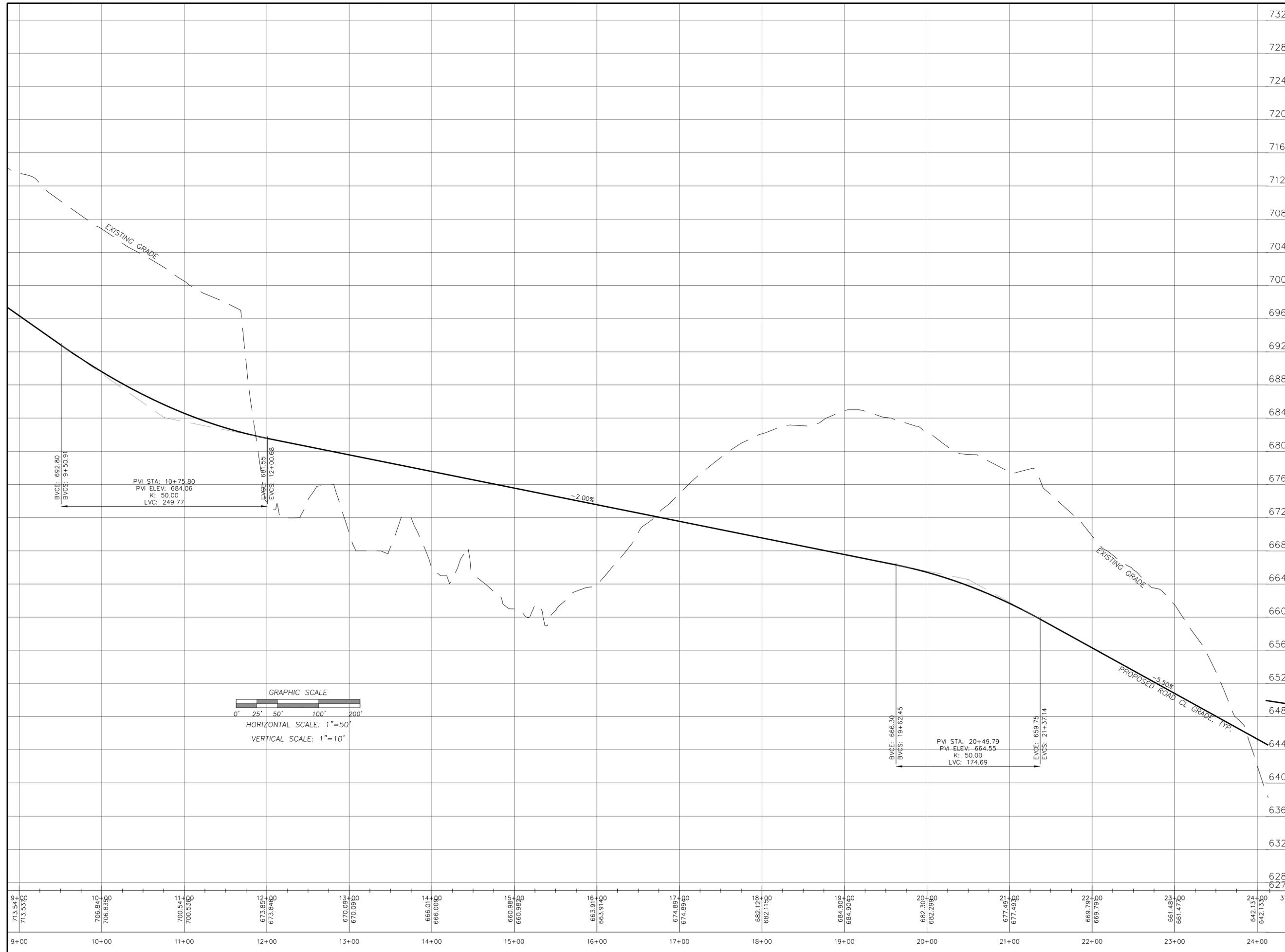
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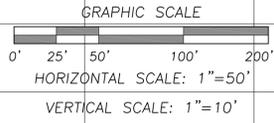
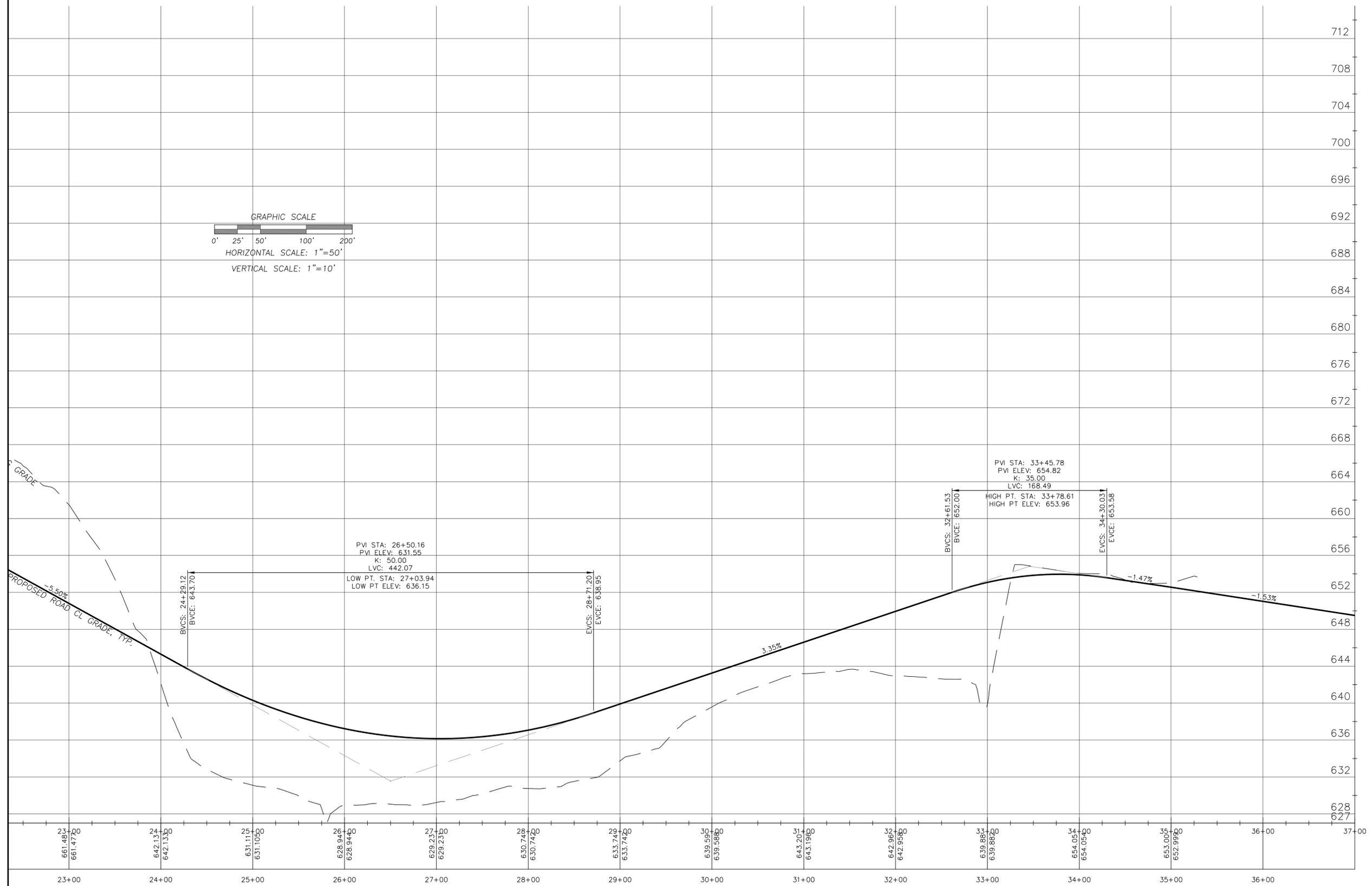
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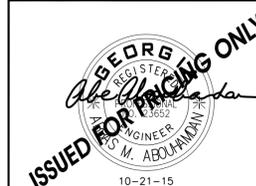
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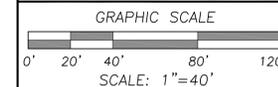
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UTILITY PLAN A



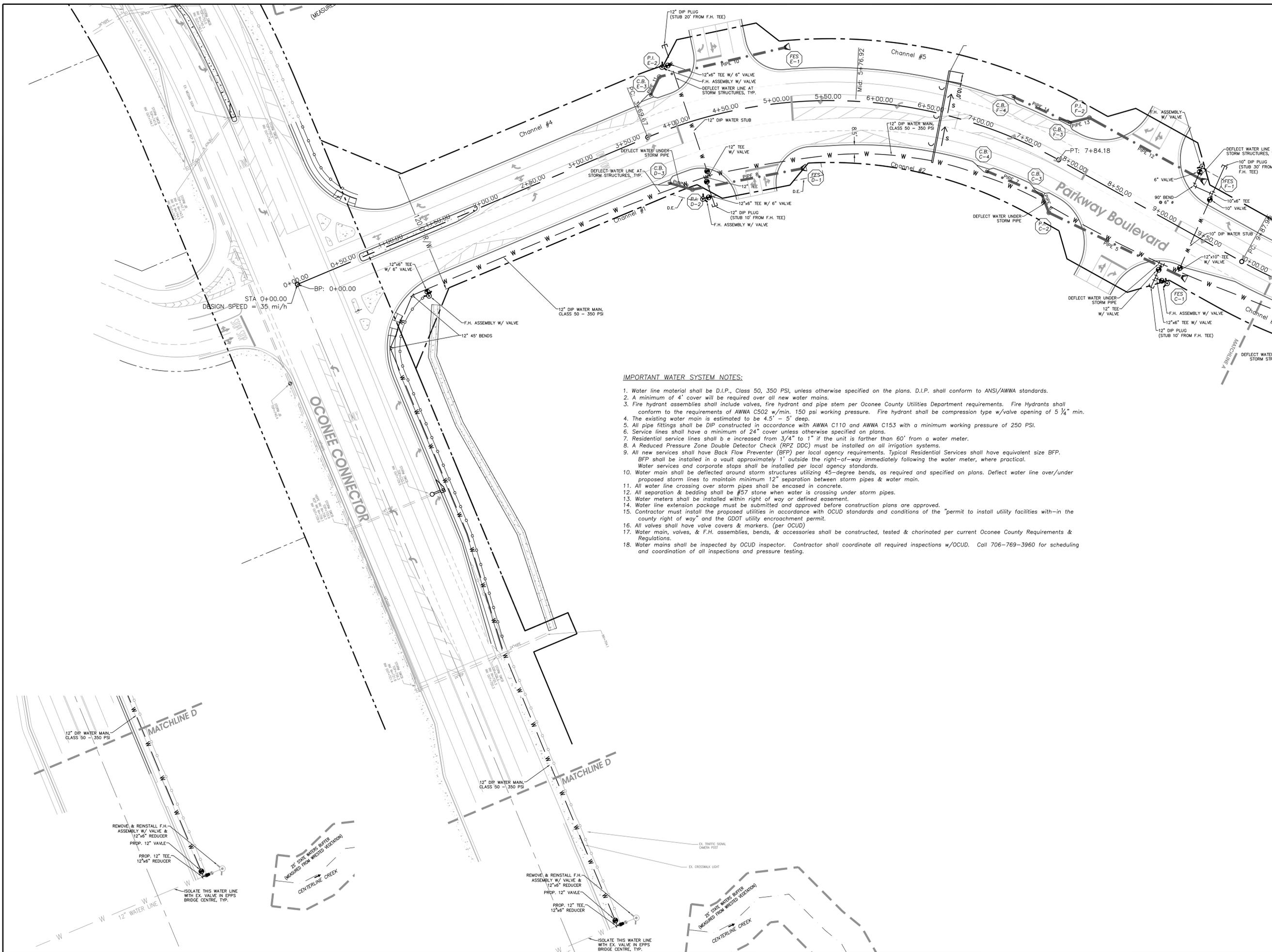
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GRID NORTH (GA-WEST)



- IMPORTANT WATER SYSTEM NOTES:**
1. Water line material shall be D.I.P., Class 50, 350 PSI, unless otherwise specified on the plans. D.I.P. shall conform to ANSI/AWWA standards.
 2. A minimum of 4' cover will be required over all new water mains.
 3. Fire hydrant assemblies shall include valves, fire hydrant and pipe stem per Oconee County Utilities Department requirements. Fire Hydrants shall conform to the requirements of AWWA C502 w/min. 150 psi working pressure. Fire hydrant shall be compression type w/valve opening of 5 1/4" min.
 4. The existing water main is estimated to be 4.5' - 5' deep.
 5. All pipe fittings shall be DIP constructed in accordance with AWWA C110 and AWWA C153 with a minimum working pressure of 250 PSI.
 6. Service lines shall have a minimum of 24" cover unless otherwise specified on plans.
 7. Residential service lines shall be increased from 3/4" to 1" if the unit is farther than 60' from a water meter.
 8. A Reduced Pressure Zone Double Detector Check (RPZ DDC) must be installed on all irrigation systems.
 9. All new services shall have Back Flow Preventer (BFP) per local agency requirements. Typical Residential Services shall have equivalent size BFP. BFP shall be installed in a vault approximately 1' outside the right-of-way immediately following the water meter, where practical. Water services and corporate stops shall be installed per local agency standards.
 10. Water main shall be deflected around storm structures utilizing 45-degree bends, as required and specified on plans. Deflect water line over/under proposed storm lines to maintain minimum 12" separation between storm pipes & water main.
 11. All water line crossing over storm pipes shall be enclosed in concrete.
 12. All separation & bedding shall be #57 stone when water is crossing under storm pipes.
 13. Water meters shall be installed within right of way or defined easement.
 14. Water line extension package must be submitted and approved before construction plans are approved.
 15. Contractor must install the proposed utilities in accordance with OCU standards and conditions of the "permit to install utility facilities within the county right of way" and the GDOT utility encroachment permit.
 16. All valves shall have valve covers & markers. (per OCU)
 17. Water main, valves, & F.H. assemblies, bends, & accessories shall be constructed, tested & chorinated per current Oconee County Requirements & Regulations.
 18. Water mains shall be inspected by OCU inspector. Contractor shall coordinate all required inspections w/OCU. Call 706-769-3960 for scheduling and coordination of all inspections and pressure testing.



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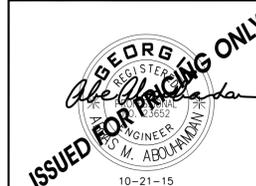
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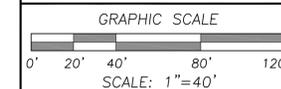
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UTILITY PLAN B



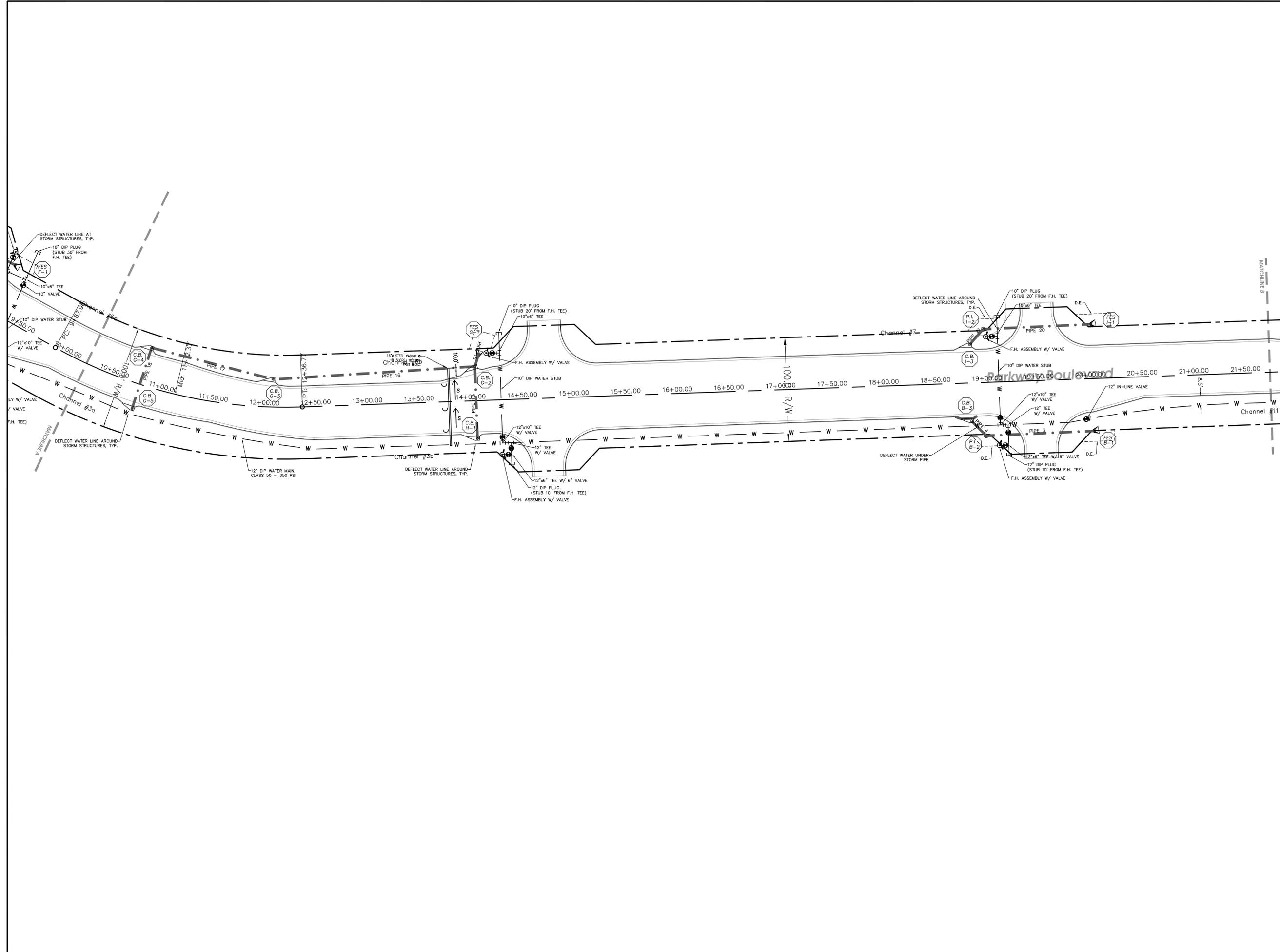
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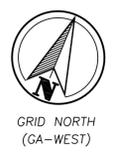
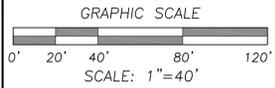
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UTILITY PLAN C

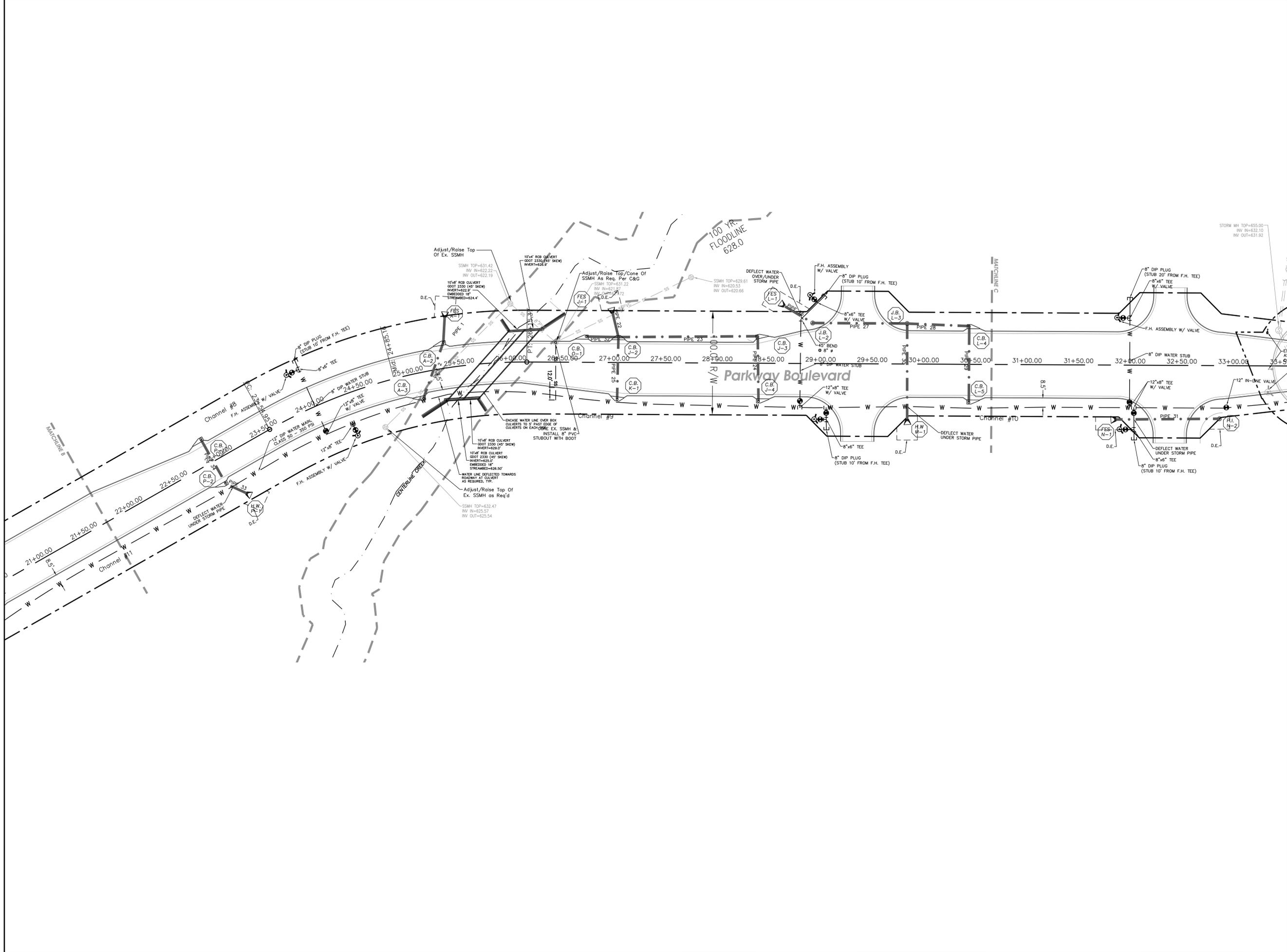


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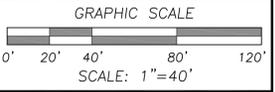
UTILITY PLAN D



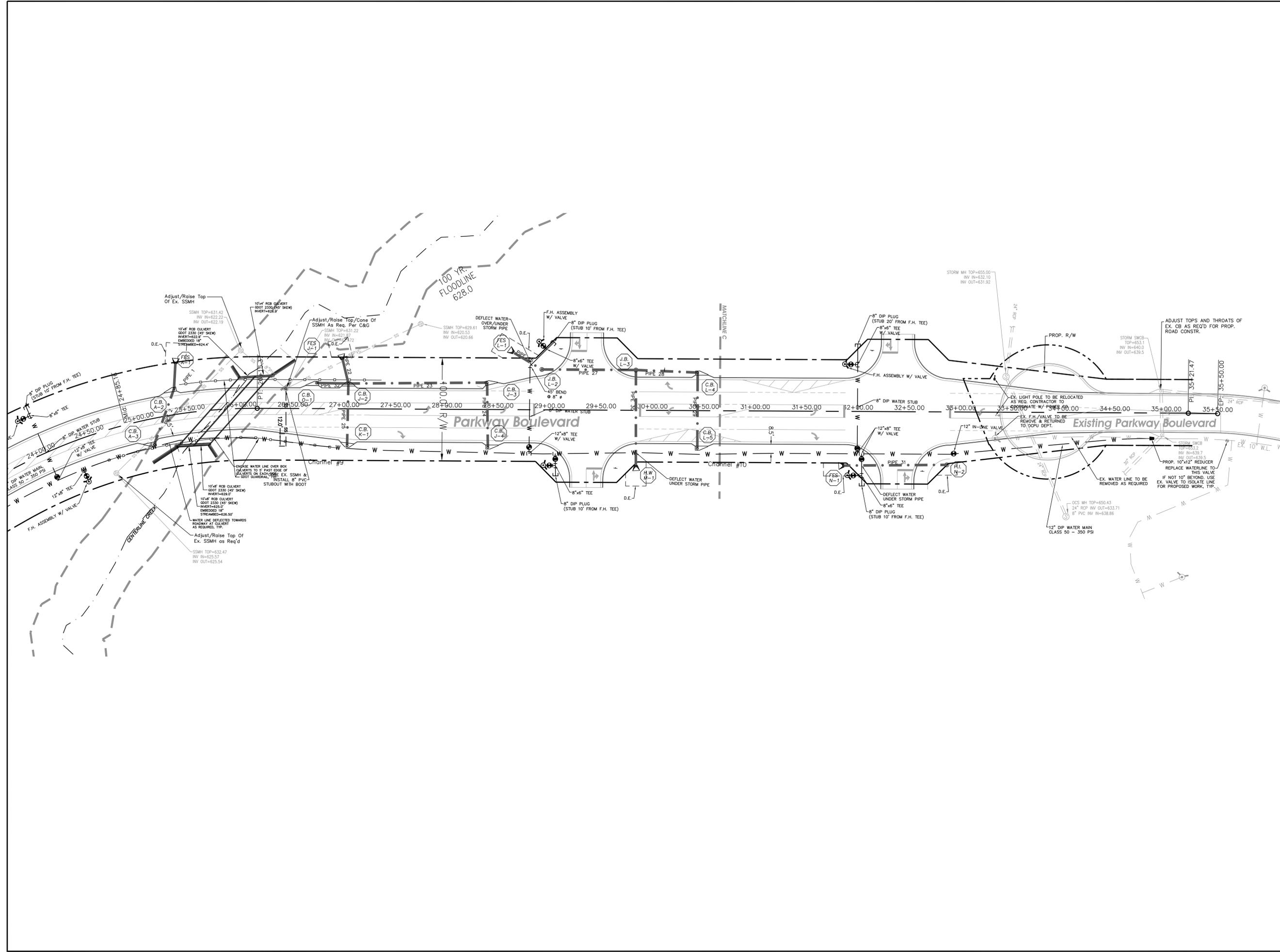
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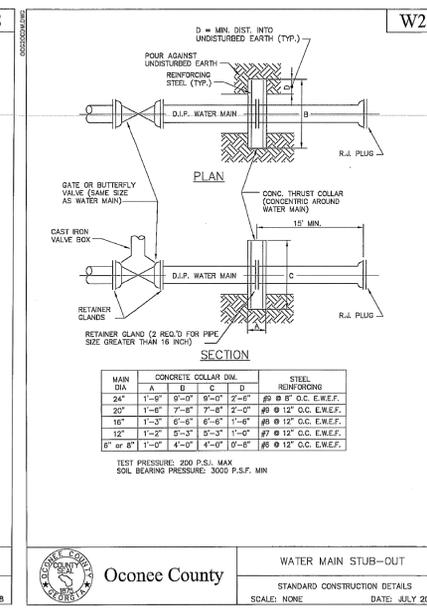
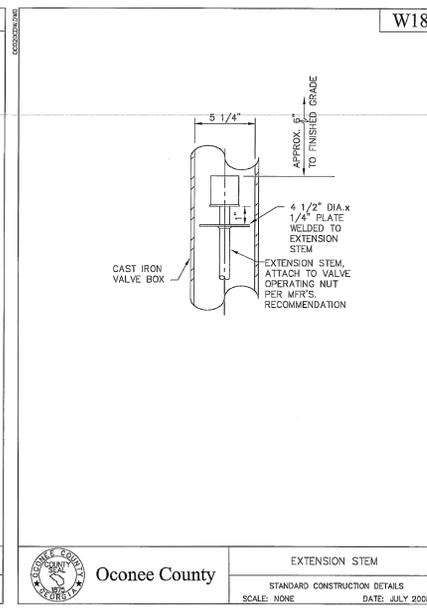
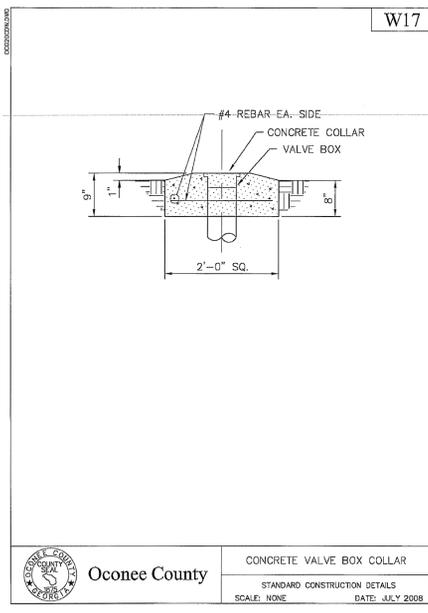
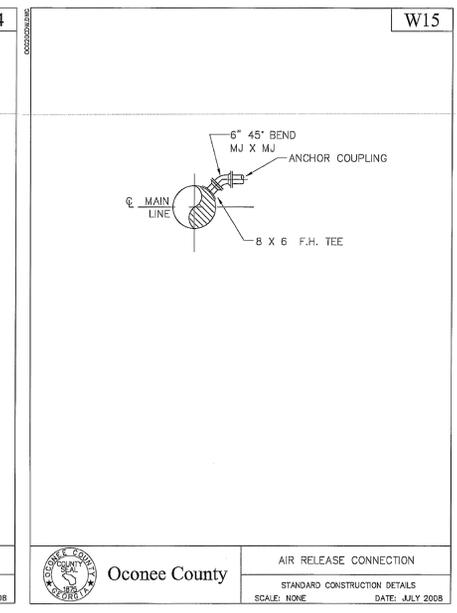
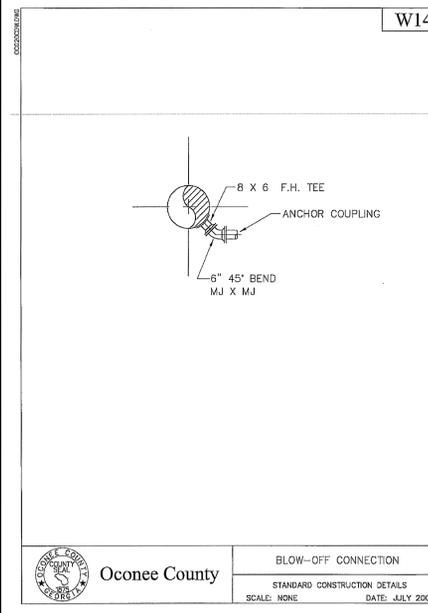
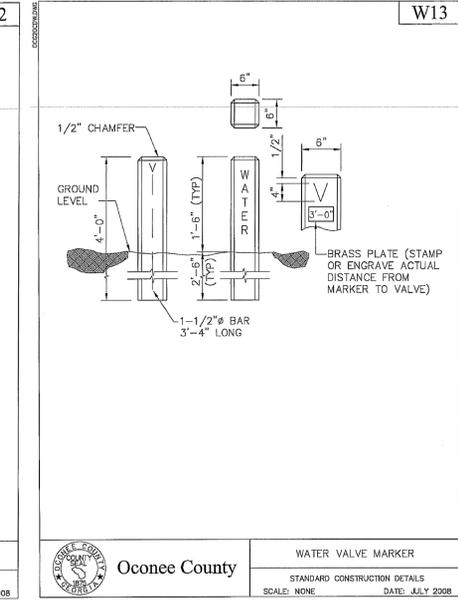
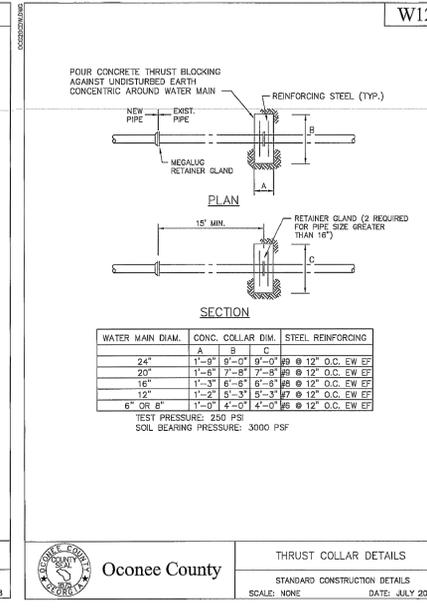
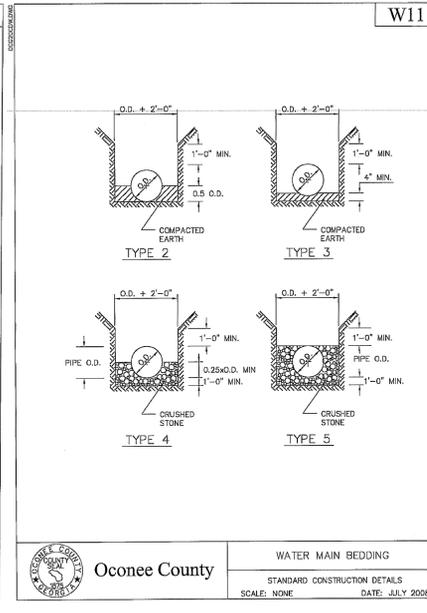
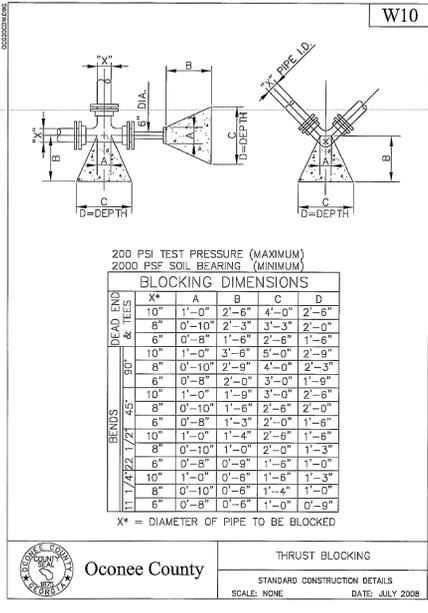
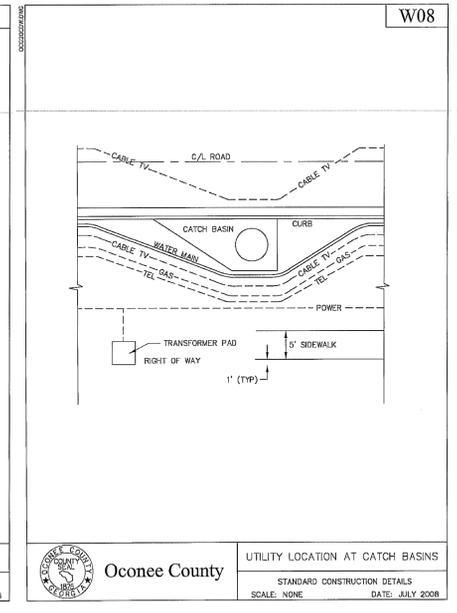
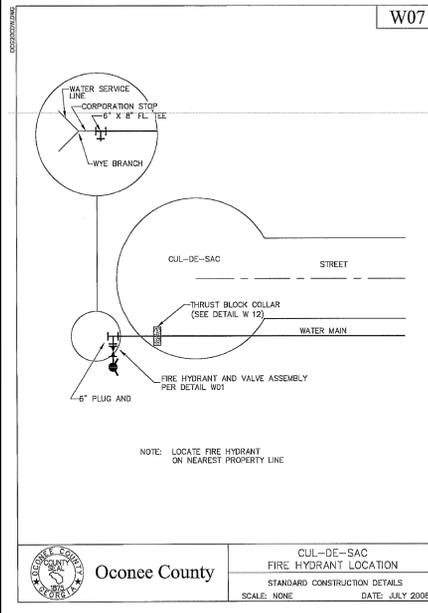
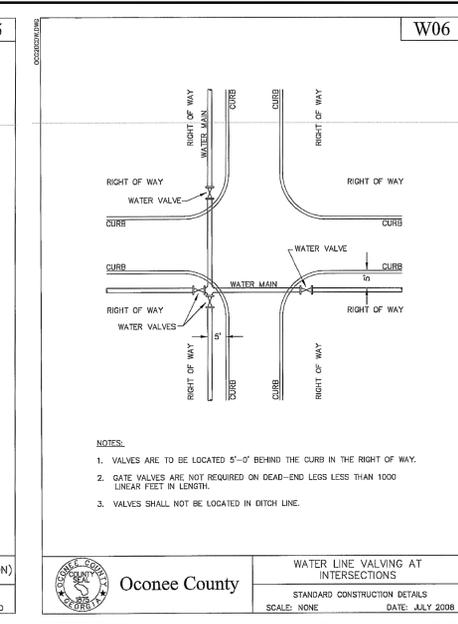
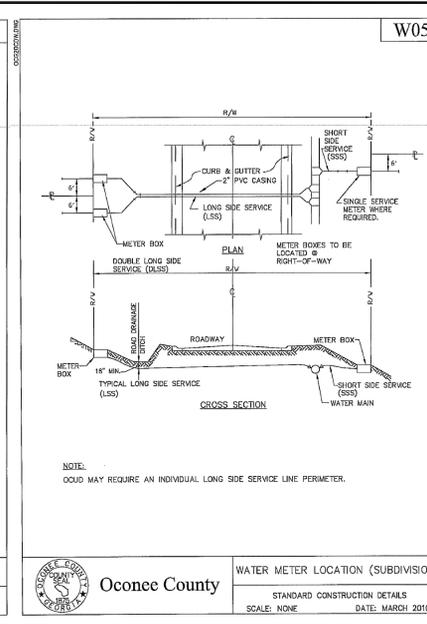
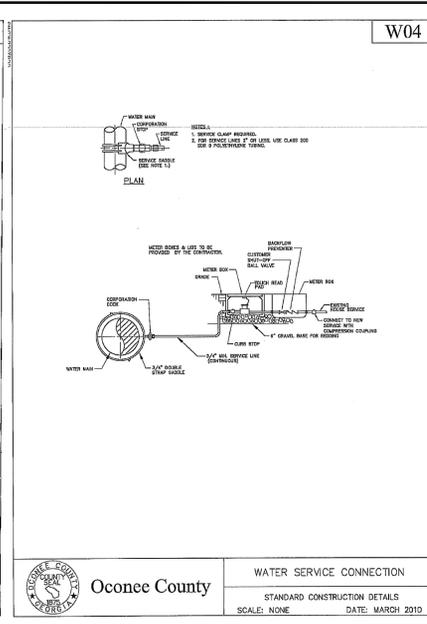
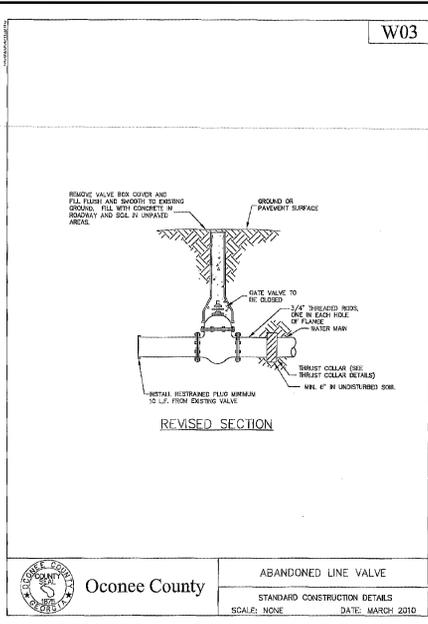
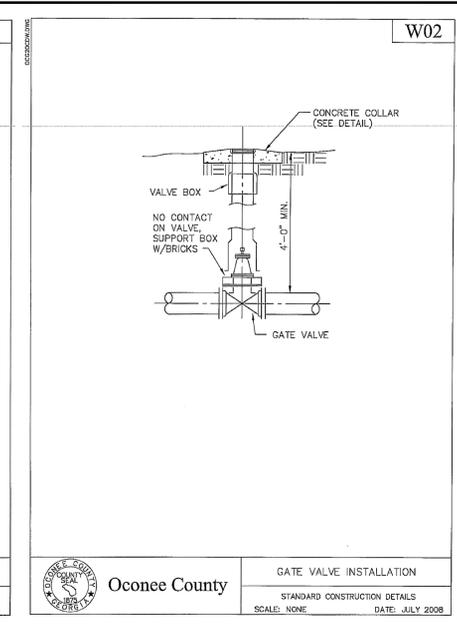
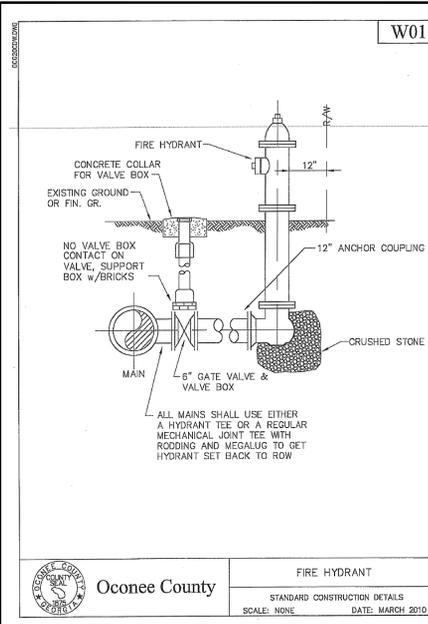
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OCONEE COUNTY, GEORGIA
± 8.38 ACRES IN ROW

UTILITY DETAILS

ISSUED FOR PRICING ONLY

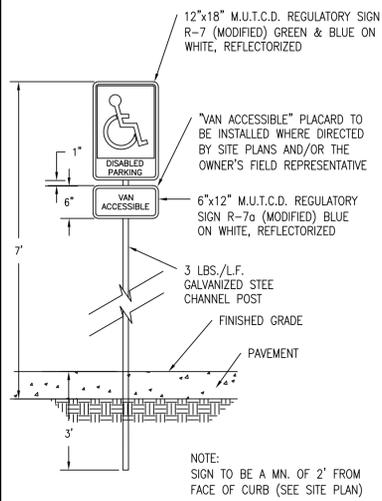
REGISTERED PROFESSIONAL ENGINEER
AS M. ABOUJAMAN

10-21-15

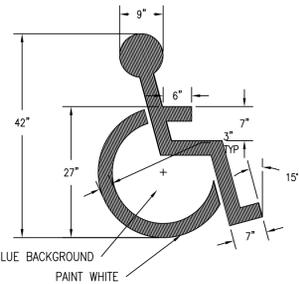
REVISIONS	DATE

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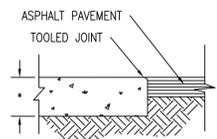
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12 "HANDICAP PARKING ONLY" SIGN
SD-1.1 NOT TO SCALE

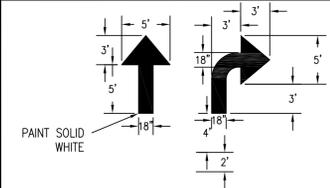


13 PAINTED HANDICAPPED PARKING SYMBOL
SD-1.1 NOT TO SCALE



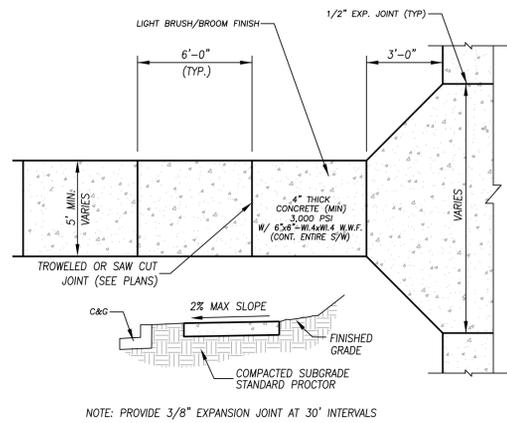
*SEE SITE PLAN

14 TERMINAL JOINT W/ ASPHALT PAVEMENT
SD-1.1 SCALE



NOTE:
1. ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT

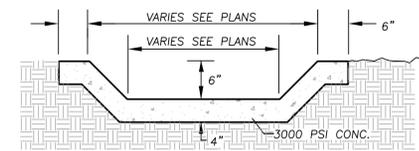
15 TYPICAL PAVEMENT MARKING
SD-1.1 NOT TO SCALE



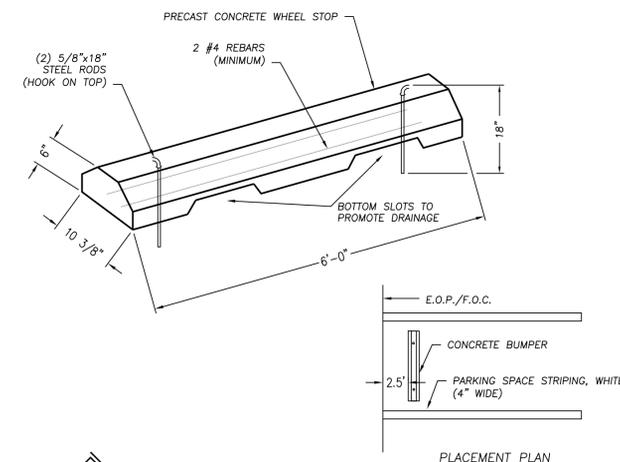
NOTE: PROVIDE 3/8" EXPANSION JOINT AT 30' INTERVALS



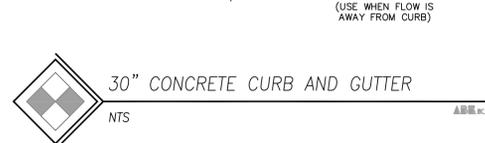
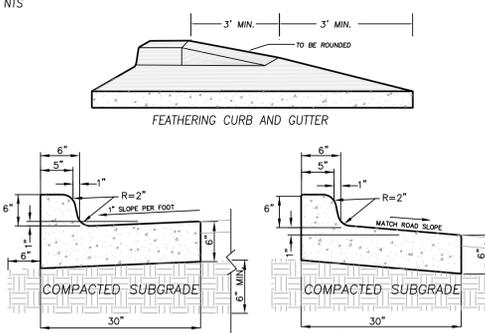
CONCRETE SIDEWALK DETAIL
NTS



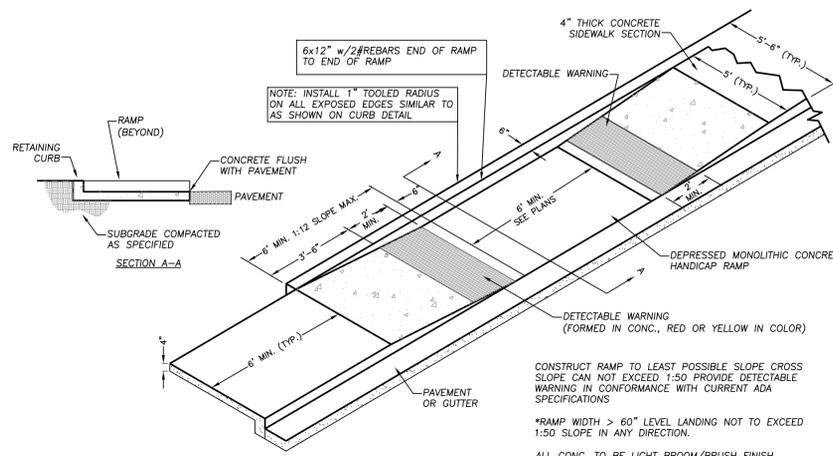
CONCRETE FLUME DETAIL
NTS



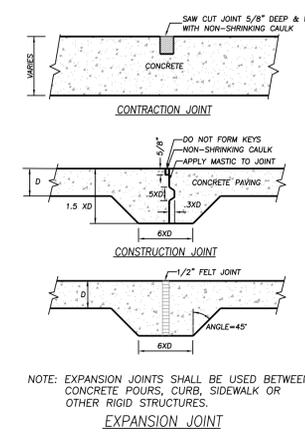
CONCRETE WHEEL STOP
NTS



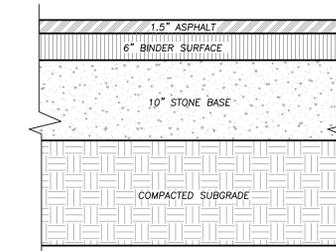
30" CONCRETE CURB AND GUTTER
NTS



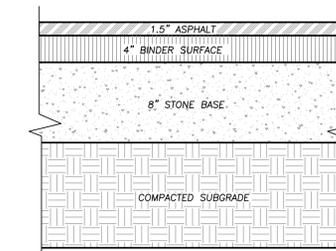
H/C DEPRESS CURB RAMP & DETECTABLE WARNING DETAIL
NTS



CONCRETE JOINT DETAILS
NTS

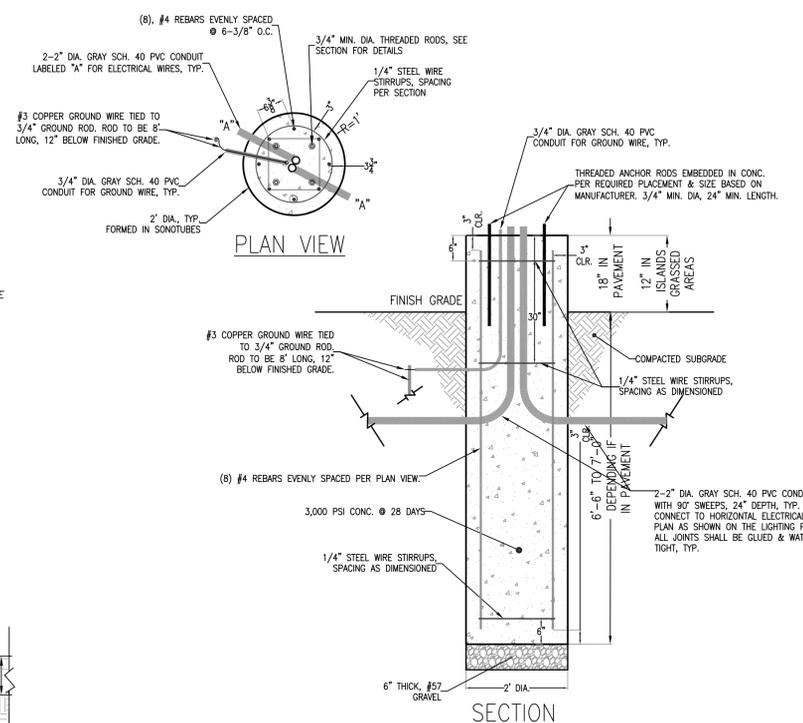


HEAVY DUTY ASPHALT SECTION (MAJOR COLLECTOR)
TYPE "A"



HEAVY DUTY ASPHALT SECTION (MAJOR COLLECTOR)
TYPE "B"

- GENERAL LIGHT POLE CONC. FOOTER NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI @ 28 DAYS.
 2. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 615, GRADE 60
 3. FINE BROOM FINISH SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES TO PROMOTE NONSKID SURFACE
 4. ASSUMED BEARING CAPACITY OF SOIL= 3,000 PSF
 5. ALL REINFORCING STEEL SHALL HAVE A MIN. OF 2-1/2" CLEARANCE EXCEPT AT BOTTOM OF FOOTING CLEARANCE SHALL BE 3".
 6. ALL EXPOSED CORNERS OF WALL SHALL BE ROUNDED WITH MIN. 1/2" CHAMFER.
 7. COORDINATE LIGHT POLE ANCHOR BOLTS, PLATES, NUTS, WASHERS WITH SPECS & DETAILS BY MANUFACTURER. NUTS & WASHERS SHALL BE HIGH STRENGTH.
 8. EXTEND TREADED RODS ABOVE TOP OF FOOTER AS REQUIRED BY LIGHT POLE MANUFACTURER.



PARKING LOT LIGHT POLE CONC. FOOTER DETAIL
SCALE: 1"=1'-0"



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