CITY OF BROOKHAVEN DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED

WINDSOR PARKWAY

AT OSBORNE ROAD

CITY OF BROOKHAVEN

MAYOR, JOHN ARTHUR ERNST JR.

CITY COUNCIL DISTRICT I: LINLEY JONES

CITY COUNCIL DISTRICT 2: JOHN PARK

CITY COUNCIL DISTRICT 3: BATES MATTISON

CITY COUNCIL DISTRICT 4: JOE GEBBIA

PUBLIC WORKS DIRECTOR: HARI KARIKARAN

DESIGN DATA:
TRAFFIC A.D.T.: 10,479 WINDSOR PKWY
TRAFFIC A.D.T.: 5,568 OSBORNE ROAD

24 HOUR CONTACT:

HARI KARIKARAN

NAME

404-637-0500

PHONE NUMBER

HARI,KARIKARAN@BROOKHAVENGA,GOV

E-MAIL

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



Know what's below. Call before you dig.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102,04,102,05, AND 104,03 OF THE SPECIFICATIONS.

#IMIT OF CONSTRUCTION
STA. 10+85. 00

LIMIT OF CONSTRUCTION

OSBORNE ROAD

N=1411967.4733

| E = 2243304. 8999

| STA. 32+40.00

LENGTH OF PROJECT

Project No. 162073

MILES

NET LENGTH OF ROADWAY
NET LENGTH OF BRIDGES

O.00000

E=2243304.7927

NET LENGTH OF PROJECT

NET LENGTH OF EXCEPTIONS

GROSS LENGTH OF PROJECT

THIS PROJECT IS 100% IN

DEKALB COUNTY.

Norcross, GA 30092
Phone: (770) 263-9118

0.0000
0.069I
0.0000
0.069I

COUNTY No.

Michael Baker

INTERNATIONAL

SCALE IN FEET

420 Technology Pkwy, Suite 150

NOTE :

ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



END PROJECT P. 1. 162073

STA. 22+50.00

N=1411662.4204

E=2243529.9487

Benjamin C Clopper
Level II Certified Design Professional

CERTIFICATION NUMBER

000000088

EXPLIED: 06/03/2017

EXPLIES: 06/03/2020

BENJAMIN C CLOPPER, P.E.
GSWCC LEVEL II Certification *0000000088

PREPARED BY: MICHAEL BAKER INTERNATIONAL, INC.

DESIGN

PLANS COMPLETED 7-29-2019	1/24/20 - 50-0001,51-0002,54-0001,-0002,56-0004
REVISIONS	3/9/20 - 6-0001
8/15/19 - 2-0001,13-0001,24-0001,50-0001,54-0002	4/7/20 - 2-0001,6-0001,6-0002,18-0003
54-0003,54-0004,56-0001	
10/16/19 - 6-0001,-0002,22-0001,23-0001 TO 23-0009,	
24-000I , -0002	
12/16/19 - 6-0002,50-0001,51-0001 TO -0005,52-0001 TO	
-0007,53-0001,54-0001 TO -0006,55-0001,56-0002	
TO -0009	
1/9/20 - 6-0002,22-0001,24-0001T0 -0002	
	DRAWING No.

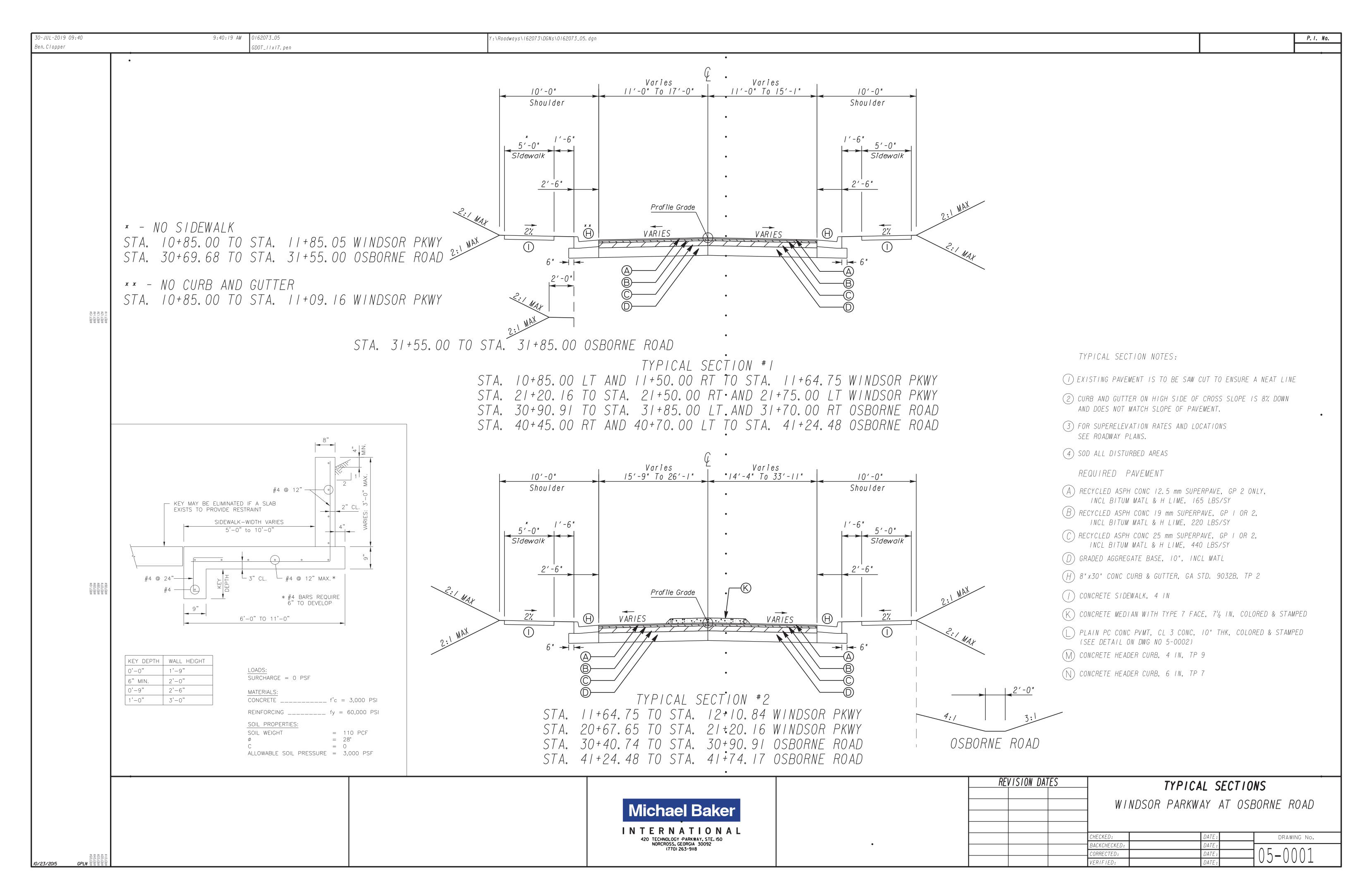
01-0001

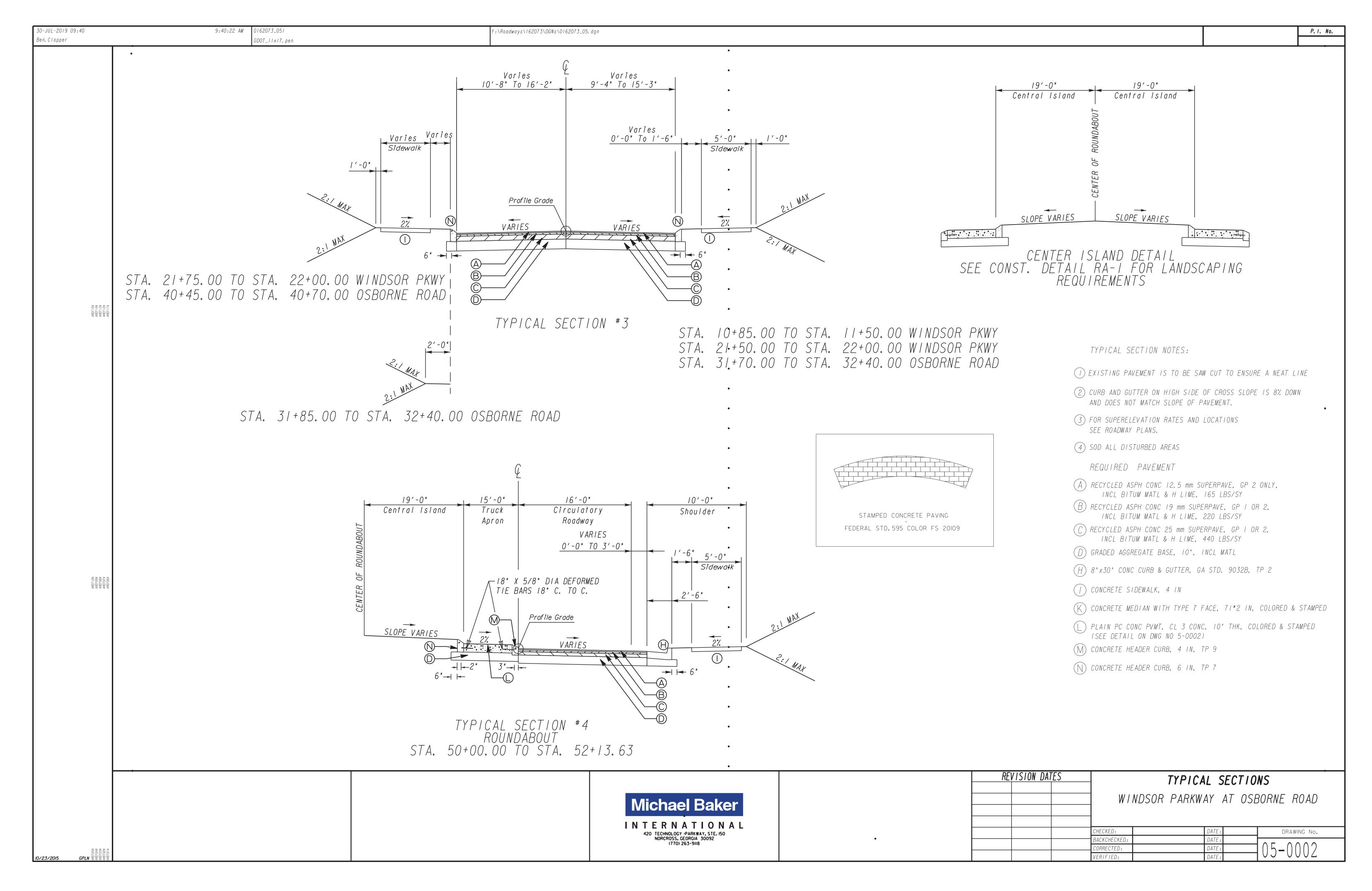
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	DRAWING NO.	DESCRIPTION		CONSTRUCTION DETAILS (NOT INCLUDED)	REV. DATE
	1-0001	COVER		DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTER	
	2-0001	INDEX		CONCRETE VALLEY GUTTER AT STREET INTERSECTION, 6" OR 8"	7-11
	3-0001	REVISION SUMMARY		VALLEY GUTTER AT DRIVE, PLACING PAVEMENT ADJACENT TO	
	4-0001 - 4-0002	GENERAL NOTES & PROJECT NOTES		ADDITIONAL PAVING AT STREET INTERSECTION, 4" CORRUGATED	
	5-0001 - 5-0002	TYPICAL SECTIONS		MEDIAN	
	6-0001 - 6-0002	SUMMARY OF QUANTITIES		THIS DETAIL REPLACES GA STANDARD 9031W: SPECIAL DETAILS	9-16
	13-0001 - 13-0002	MAINLINE PLAN SHEETS		SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS	
	15-0001	MAINLINE PROFILE		DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING	6-09
	16-0001	CROSSROAD PROFILE		ALIGNMENT REQUIREMENTS	
	17-0001 - 17-0003	DRIVEWAY PROFILES		ROUNDABOUT LANDSCAPING DETAILS	9-11
	18-0001 - 18-0003	SPECIAL GRADING		ROUNDABOUT TYPICAL SECTION ASPHALTIC CONRETE CIRCULATORY	
	20-0001 - 20-0002	STAGING DETAILS		TYPE 7, 8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL	2-Jul
	21-0001	DRAINAGE AREA MAP		DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED	9-16
	22-0001	DRAINAGE PROFILES		ROADWAY	
	23-0001 - 23-0009	CROSS-SECTIONS	T-12B	DETAILS OF PAVEMENT MARKIINGS - ARROWS	4-00
	24-0001 - 24-0002	UTILITY PLAN SHEETS			
	25-0001 - 25-0004	LIGHTING PLANS (NOT INLCUDED IN PLANS)	STD NO.	GEORGIA STANDARDS (NOT INCLUDED)	REV. DATE
	26-0001 - 26-0003	SIGNING AND MARKING SHEETS	1019A [DROP INLETS	8-99
	38-0001	SPECIAL CONSTRUCTION DETAIL	1019AP F	PRECAST DROP INLETS	8-99
	50-0001	EROSION CONTROL COVER SHEET	1019B	DROP INLETS TYPES V-1 AND V-2	8-99
	51-0001 - 51-0005	ESPC GENERAL NOTES	1030D1 (CONCRETE AND METAL PIPE CULVERTS SHEET 1 OF 3	9-01
	52-0001	EC-L1 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 7) 3-17	1030D2 (CONCRETE AND METAL PIPE CULVERTS SHEET 2 OF 3	9-01
	52-0002	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7) 11-18	1030D3 (CONCRETE AND METAL PIPE CULVERTS SHEET 3 OF 3	9-01
	52-0003	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7) 3-17	1033D (CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER)	8-82
	52-0004	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7) 3-17	1033DP	PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND	9-82
	52-0005	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7) 3-17	(5046H)	JOINT DÉTAILS FOR PLAIN PORTLAND CÉMENT CONCRÉTÉ PAVING	1-18
	52-0006	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7) 11-18	9003	FEDERAL AID AND STATE PROJECT MARKERS; RIGHT OF WAY	4-06
	52-0007	EC-L7 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7) 3-17		COUNTY LINE MARKERS	
	53-0001	EROSION CONTROL DRAINAGE AREA MAP	9029B	PERFORATED UNDERDRAIN	8-83
	54-0001 - 54-0006	BMP LOCATION DETAILS	9031L2 [DETAILS OF DROP INLET FOR MODIFIED GRATES	6-98
	55-0001	WATERSHED MAP & SITE MONITORING	9031S I	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE	4-96
			9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE	11-11
		DETAIL NO. EROSION CONTROL CONSTRUCTION DETAILS REV. DATE	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND	3-06
				MISCELLANEOUS DETAILS	
	56-0002	D-24A TEMPORARY SILT FENCE (SHEET 1 OF 4) 1-11	9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE	3-06
	56-0003	D-24B TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH 1-11			
		(SHEET 2 OF 4)			
	56-0004	D-24C TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 1-11			
	56-0005	D-24D TEMPORARY SILT FENCE FABRIC CHECK DAM (SHEET 4 OF 4) 7-15			
	56-0006	D-41 CONSTRUCTION EXIT 4-18			
	56-0007	D-42 INLET SEDIMENT TRAPS 5-08			
	56-0008	D-54 SOD INSTALLATION 4-16			
	56-0009	MULCH & TEMPORARY GRASSING			
	60-0001 - 60-0006	RIGHT OF WAY SHEETS			
				REVISION DATES	
		Michael	Baker	8/15/19	
		IVIICITACI		4/7/20 WINDSOR PARKWAY AT	USDURNE RUAD
		INTERNAT	TIONAL		
		420 Technology Pkwy, S		CHECKED: DATE:	DRAWING No.
		Norcross, GA 30092		BACKCHECKED: DATE:	
10/23/2015 GPLN		Phone: (770) 263-9118		CORRECTED: DATE: VERIFIED: DATE:	02-0001
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11:20:27 AM 162073_03. dgn Ben. Clopper plotborder-V8i-PO_MBI.tbl DATE DATE DRAWING NO. REVISION DRAWING NO. REVISION 01-0001, 03-0001 8/15/19 ADDED REVISION 02-0001 DELETED SHEET 56-0001 8/15/19 8/15/19 | 13-0001 & 13-0002 | ADDED LIGHT FIXTURES (BY OTHERS) 8/15/19 ADDED WATER LINE RELOCATION 24-0001 8/15/19 50-0001 ADDED REVISION REVISED LINESTYLE FOR SdI-S 54-0002 8/15/19 *54-0003***,** *54-0004* LABLED DSI AND DS2 8/15/19 8/15/19 56-0001 DELETED SHEET FROM PLAN SET 10/16/19 01-0001, 03-0001 ADDED REVISION 10/16/19 06-0001, 06-0002 REVISED QUANTITIES 22-0001 REVISED UTILITY CALLOUTS 10/16/19 10/16/19 | 23-0001 TO 23-0009 ADDED WATER AND SEWER UTILITIES REVISED WATER LINE RELOCATIONS, ADDED LIGHT FIXURES 10/16/19 24-0001 ADDED WATER LINE RELOCATIONS, ADDED LIGHT FIXTURES 10/16/19 24-0002 12/16/19 01-0001, 03-0001 ADDED REVISION REVISED SOD QUANTITY, ADDED TURF REINFORCING MATTING, TP I 12/16/19 06-0002 50-0001 12/16/19 ADDED REVISION, REVISED NOTE ADDED PLANS COMPLETE DATE, UPDATED CHECKLIST AND APPENDIX I, REVISED NOTES 12/16/19 51-0001 TO 51-0005 12/16/19 52-0001 TO 52-0007 ADDED PLANS COMPLETE DATE 12/16/19 53-0001 ADDED PLANS COMPLETE DATE, ADDED TOTAL DISTURBED AREA, ADDED SOIL CLASSIFICATIONS ADDED PLANS COMPLETE DATE, ADDED Co AND Du, CONCRETE WASH DOWN AND C/F LIMITS 12/16/19 54-000 I 54-0002 ADDED PLANS COMPLETE DATE, ADDED Du AND C/F LIMITS 12/16/19 ADDED PLANS COMPLETE DATE, ADDED SLOPE MATS, REVISED Cd-F TO Cd-S 12/16/19 54-0003 12/16/19 54-0004 ADDED PLANS COMPLETE DATE 54-0005 ADDED PLANS COMPLETE DATE, ADDED HATCHING FOR SOD 12/16/19 54-0006 ADDED PLANS COMPLETE DATE, ADDED HATCHING FOR SOD 12/16/19 55-0001 12/16/19 ADDED PLANS COMPLETE DATE ADDED PLANS COMPLETE DATE, REMOVED TP A SILT FENCE 12/16/19 56-0002 56-0003 12/16/19 ADDED PLANS COMPLETE DATE 12/16/19 56-0004 ADDED PLANS COMPLETE DATE, REMOVED Sd2-F METAL ALTERNATE 12/16/19 56-0005 ADDED PLANS COMPLETE DATE, REMOVED Cd-F DETAIL, ADDED Cd-S DETAIL 12/16/19 56-0006 ADDED PLANS COMPLETE DATE 12/16/19 56-0007 ADDED PLANS COMPLETE DATE, ADDED NOTE 12/16/19 56-0008 ADDED PLANS COMPLETE DATE ADDED PLANS COMPLETE DATE, REVISED Ds2 NOTES, ADDED Ds4 NOTES 56-0009 12/16/19 ADDED REVISION 01-0001, 03-0001 1/9/20 1/9/20 06-0002 REMOVED WATER QUANTITIES 1/9/20 22-0001 REVISED WATER RELOCATIONS 1/9/20 24-0001 & 24-0002 | REVISED WATER RELOCATIONS ADDED REVISION 1/24/20 01-0001, 03-0001 1/24/20 ADDED REVISION 50-0001 REVISED CONCRETE WASHDOWN NOTE 1/24/20 51-0002 1/24/20 | 54-0001 TO -0002 ADDED SdI-S NOTE 1/24/20 56-0004 ADDED DEPTH OF EXCAVATION FOR INLET SEDIMENT TRAP NOTE 01-0001, 03-0001 3/9/20 ADDED REVISION REVISED CLASS A CONCRETE W/ REINF STEEL QUANTITY AND NOTE 3/9/20 06-0001 01-0001, 03-0001 ADDED REVISION 4/7/20 4/7/20 ADDED SHEET 18-0003, ADDED GDOT STD 5046H 02-0001 REMOVED DUPLICATE PAY ITEM 4/7/20 06-0001 ADDED UTILITY ADJUSTEMENT QUANTITIES 06-0002 4/7/20 4/7/20 18-0003 ADDED SHEET REVISION DATES REVISION SUMMARY 8/15/19 Michael Baker WINDSOR PARKWAY AT OSBORNE ROAD 10/16/19 12/16/19 INTERNATIONAL 1/9/20 420 Technology Pkwy, Suite 150 1/24/20 DRAWING No. Norcross, GA 30092 BACKCHECKED: 3/9/20 Phone: (770) 263-9118 0/23/2015

30-JUL-2019 09:40 Ben. Clopper	9:40:06 AM	R:\\62073\DGNs\0162073_04.dgn	P. I. No.
### ### #### #########################	PROJECT GENERAL NOTES 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS. CURRENT EDITION AND THE CITY OF BROOKHAVEN ORDINANCES. 2. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA: SOUTHERN COMPANY DEKALB COUNTY GAS ATAT DEKALB COUNTY TELEPHONE GA POWER ELECTRIC 3. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS. 4. RIGHT-OF-WAY MARKERS IN RESIDENTIAL LAWN AND DEVELOPED COMMERCIAL AREAS SHALL BE PLACED FLUSH WITH THE FINISHED SURFACE. 5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL. 6. PERFORATED UNDERDRAIN SHALL BE PLACED IN AREAS WHERE WET CONDITIONS EXIST IN THE SUBGRADE AS DIRECTED BY THE ENGINEER. CONTRACTOR TO NOTIFY THE CITY REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF SUCH MATERIAL. 7. STRUCTURES, TREES, SHRUBS AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS. BUT OUTSIDE THE LIMITS OF CONSTRUCTION. SHALL NOT BE DISTURBED UNLESS DIRECTED BY THE ENGINEER. 8. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL. STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT. 9. ALL EXISTING PIPES AND DRAINAGE STRUCTURES SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. REMOVAL OF PIPE SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE". 10. IN AREAS WHERE INEW PAYMENT OR PAYMENT WILDENING IS REQUIRED. SAW CUT OF EXISTING PAYMENT WILL BE RECOURDED.	PROJECT GENERAL NOTES CONT.: 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, BELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MALLED RESPONSIBLE FOR REMOVING, BELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MALLED RESPONSIBLE FOR REMOVING, BELOCATING THE LOCATION OF THE BOS SHALL BE CONTRACTOR. THE LOCATION OF THE BOS SHALL BE CONTRACTOR TO ME HAVE ALL COSTS, INCIDENCE FOR COMPLIANCE WITH THESE RECOVERABLE, THE DESCRIPTION OF THE PROPERTY OWNERS AND PARKETS OF THE MAINTAIN OF THE PROPERTY OWNERS. 22. AN N. O. I. I MOTICE OF INITIAL TO SECONDAL PLANCE WITH THESE RECOVERABLES AND PARKETS TO BE INCLUDED IN REMOVED. 23. CONTRACTOR IS TO CLEM OUT ALL EXISTING DRAINAGE STRUCKES, AND PARKETS ON AREA IS 1.33 ACRES. 24. PARKET IS TOO SHALL PROVIDE RUPE WITHOUT ALL EXISTING DRAINAGE STRUCKES, AND PARKETS ON AREA IS 1.33 ACRES. 25. LAGS MEDICATE FOR PROPERTY IN THE READ IS AND ALL EXISTING OWNERS AND PROPERTY IN THE SECONDAL PROPER	CONTROL LOSE AS POSSIBLE TO CTION. MAINTENANCE SIGNS AND OBLITERATED BY THE COMPLETE. ADJACENT TO TRAVEL APPROVAL IS GRANTED BY SHIFTS. MAXIMUM SPACING INTERFERE WITH SIGHT PLAN D. THESE SHALL BE PROVIDED MINIMUM DENTIFYING THE CLOSED MINIMUM OF 2 WEEKS
### ##################################	IN PRICE BID FOR "GRADING COMPLETE". 11. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE TO. ANY OTHER DRIVEWAY MATERIAL OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED IN KIND (I.E. PAVERS) AND WILL BE REPLACED WITH ASPHALT OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED WITH ASPHALT TO THE RIGHT-OF-WAY LIMIT OR TIE-IN POINT. DRIVEWAYS SHALL BE PAVED AS FOLLOWS: ASPHALTIC DRIVES RESIDENTIAL - 1-1/2" ASPH. CONC. 19 MM SUPERPAVE (@ 165 LB/SY) - 2" ASPH. CONC. 19 MM SUPERPAVE (@ 220 LB/SY) - 6" GRADED AGGREGATE BASE. INCL MATL COMMERCIAL - 1-1/2" ASPH. CONC. 19 MM SUPERPAVE, GP 2, INCL BITUM (@ 165 LB/SY) - 8" GRADED AGGREGATE BASE. INCL MATL CONCRETE DRIVES RESIDENTIAL - 6" CONCRETE VALLEY GUTTER - 6" CONCRETE DRIVEWAY COMMERCIAL - 8" CONCRETE VALLEY GUTTER - 6" CONCRETE DRIVEWAY 12. PRICE BID FOR TRAFFIC CONTROL SHALL INCLUDE. BUT IS NOT LIMITED TO, AGGREGATE SURFACE COURSE. CONSTRUCTION. MAINTENANCE. AND REMOVAL OF TEMPORARY SIGNAGE. PAVEMENT MARKINGS. BARRICADES. ETC. REQUIRED FOR MAINTENANCE. AND REMOVAL OF TEMPORARY SIGNAGE. PAVEMENT MARKINGS. BARRICADES. ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL CONSTRUCTION AND SHALL BE INCLUDED IN PRICE BID FOR "TRAFFIC CONTROL". 13. NO SEPARATE PAYMENT WILL BE MADE FOR PAVEMENT, GRADING OR ANY OTHER OPERATIONS REQUIRED FOR DETOUR CONSTRUCTION AND SHALL BE INCLUDED IN PRICE BID FOR "TRAFFIC CONTROL". 14. ALL CUT AND FILL SLOPES SHALL BE GRASSED IMMEDIATELY AFTER SLOPES ARE STABILIZED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, STRAW MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. 15. REPLACEMENT GRASSING SHALL BE SOD UNLESS OTHERWISE DIRECTED BY THE CITY. 16. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TOOR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAIL DE MISTALLED PRIOR TOOR OR AS DIRECTED BY THE ENGINEER.	Pipe Culvert Material Alternates TITE OF STALLAGE MATERIAL CONTROL OF A STALLAGE MATERIAL CO	PLAN FOR APPROVAL BY THE CITY CICE FOR NG THE CONSTRUCTION OF THE PROJECT TH TEMPORARY STRIPING. PERMANENT STRIPING WILL RAFFIC CONTROL BID ITEM. * ION NOTES TRAFFIC CONTROL PLAN IS SUBJECT NCEMENT OF ANY ROAD IMPROVEMENT AND STRIPING WORK. EFLECTIVITY, HEIGHT, AND PLACEMENT. ROS FOR THERMOPLASTIC STRIPING. FIED BY THE BROOKHAVEN TRAFFIC ENGINEER. IPING WORK. RIPING WORK. ROW. REFER TO THE CITY'S UTILITY PERMIT PRAINAGE IMPROVEMENTS PRIOR TO BEGINNING TIONS AND WHAT IS DEPICTED IN THE
			RAL NOTES AY AT OSBORNE ROAD DATE:

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	GENERAL NOTES — STANDARD SIGNS 1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS. SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. 2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET. FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS. SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS. 3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE. THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. 4A. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE	SIGNING AND PAVEMENT MARKING GENERAL NOTES (CONT.) 5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. 6. ALL SIGNS SHALL BE ON 5052-H38 FLAT ALUMINUM ALLOY (0.080 GAUGE THICKNESS) WITH ROUNDED CORNERS. ALL SIGNS SHALL MEET OR EXCEED ASTM D 4956 SPECIFICATIONS FOR RETROREFLECTIVITY. SIGN COLORS SHALL BE MATCHED VISUALLY AND BE WITHIN THE COLOR TOLERANCE LIMITS SHOWN ON THE APPROPRIATE HIGHWAY COLOR TOLERANCE CHARTS ISSUED BY THE FHWA UTILIZING THE INSTRUCTIONS THEREON. 7. UNLESS OTHERWISE NOTED, SIGN POSTS SHALL BE 2 INCH SQUARE POSTS SET IN 2.5 INCH SQUARE STUBS. SUB HEIGHT SHALL BE BETWEEN 1 TO 4 INCHES FROM THE SURFACE FROM WHICH IT IS MOUNTED. THE POST SHALL BE BLACK WEATHER RESISTANT, RUST INHIBITIVE, HIGH OUALITY POWDER COATED ENAMEL. STANDARD INSTALLATION DEPTH IS 2 FEET. WHERE STREET BLADES (D3'S) ARE SPECIFIED ABOVE STOP SIGNS (R1-1'S) THESE BLADES SHALL BE ATTACHED TO THE POST USING VULCAN VS-12 BOLT-THRU CAPS AND CROSSES (OR THEIR EQUIVALENT). 8. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE CUTY OF BROOKHAVEN.	CITY OF BROOKHAVEN EROSION & SEDIMENT CONTROL GENERAL NOTES 1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. 2. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED. THE CONTRACTOR SHALL INSPECT CONTROL MEASEURES AT THTE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. 3. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. 4. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. 5. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.	
	NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL. BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S). 4B: HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD. RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER. EDGE OF THE SIGN(S). 5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH. SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x ½ INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH. WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN. WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS. 6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.	SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE CITY OF BROOKHAVEN. 9. IN RESIDENTIAL AREAS, SIGNS SHALL BE LOCATED ON OR AS CLOSE AS POSSIBLE TO PROPERTY LINES. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/ POSTS/ STUBS/ FOOTINGS/ PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS. 11. ALL R4-7 (KEEP RIGHT) SIGNS SHALL BE INSTALLED 10 FEET FROM THE END (BULLNOSES) OF MEDIANS. PVC PIPE (6" INCH DIAMETER) IS REQUIRED FOR INSTALLING R4-7 SIGN POSTS WHEN MEDIANS ARE CONCRETE OR SOME OTHER IMPERVIOUS SURFACE. PVC PIPE SHALL NOT EXTEND ABOVE MEDIAN SURFACE MORE THAT 4 INCHES. 12. STREET NAME BLADES (D3'S) SHALL BE PROVIDED BY THE CONTRACTOR. ALL D3'S SHALL BE "WHITE ON GREEN", TYPE IX RETROREFLECTIVE SHEETING. NINE INCH D3'S ARE STANDARD. EXCEPT AT SIGNALIZED INTERSECTIONS WHERE 18 INCH D3'S SHALL BE PROVIDED. PRIVATE ROADS SHALL BE "WHITE ON BLUE" TYPE IX RETROREFLECTIVE SHEETING. 9 INCH D3'S - LETTERS SHALL BE 6 INCH SERIES "C". UPPER AND LOWER CASE. EXCEPT GEOGRAPHIC OUADRANTS WHICH SHALL BE 3 INCH SERIES "C". ALL UPPER CASE. GEOGRAPHIC OUADRANTS SHALL BE LOCATED IN THE UPPER RIGHT HAND CORNER. WHITE BORDERS SHALL BE! INCH IN WIDTH. ARROWS SHALL BE PROVIDED AS NECESSARY TO CLARIFY STREET NAME CHANGES AT INTERSECTIONS.	THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UP STREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED. 7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO CITY OF BROOKHAVEN STANDARDS. 8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS. 9. ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION. 10. STATE WATERS ARE NOT ON SITE OR WITHIN 200 FEET OF THE SITE. 11. THE PERSON AND CONTACT INFORMATION FOR OWNER INFORMATION IS AS FOLLOWED: MR. KEVIN KORTH PUBLIC WORKS, TRANSPORTATION ENGINEER	
\$REF 15\$ \$REF 14\$ \$REF 13\$ \$REF 15\$	 7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS. 8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1. OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE. 9. A '/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY. 10. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES. ON THE POST(S). ADDITIONAL 3/8 INCH DIAMETER HOLE(S). DRILLED OR PUNCHED. SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY. 11. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS. SEE DETAILS OF MISCELLANEOUS SIGNS. 	18 INCH D3'S - LETTERS SHALL BE 8 INCH SERIES "C", UPPER AND LOWER CASE, (NO GEOGRAPHIC QUADRANTS). ARROWS SHALL BE PROVIDED AS NECESSARY TO CLARIFY STREET NAME CHANGES AT INTERSECTIONS, WHITE BORDERS SHALL BE', INCH IN WIDTH. THE LETTERING ON POST-MOUNTED STEEL NAME SIGNS (D3 SERIES) SHOULD BE COMPOSED OF INITIAL UPPER CASE LETTERS AT LEAST 8 INCHES HIGH AND LOWER CASE LETTERS AT LEAST 6 INCHES HIGH. OVERHEAD STREET NAME SIGNS (D3 SERIES) SHALL BE ONE-SIDED AND AT LEAST TYPE 9 SHEETING AND INSTALLED BETWEEN TWO SIGNAL HEADS FOR THE APPROACH. THE LETTERING SHOULD BE AT LEAST 300 MM (12 INCHES) UPPER CASE LETTERS WITH 225 MM (9 INCHES) LOWER CASE LETTERS. THE FONT SHOULD BE FHWA STANDARD HIGHWAY SERIES E(M). A WHITE BORDER SHOULD BE INCLUDED AROUND AND TO THE EDGE OF THE SIGN. 13. PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE PRE-FORMED THERMOPLASTIC. 14. PLANS SHALL INCLUDE SHEET(S) DETAILING FABRICATION SPECIFICATIONS FOR ALL REQUIRED ADVISORY NAME BLADES AND D3'S.	CITY OF BROOKHAVEN 4362 PEACHTREE RD BROOKHAVEN GA 30319 404-637-0724 12. CONSTRUCTION ACTIVITIES INCLUDING VEGETATION, MULCHING AND BMP PRACTICES ARE SHOWN ON THE EROSION CONTROL PLAN SHEETS. 13. ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE; PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS. DEKALB WATERSHED MANAGEMENT GENERAL NOTES	
	12. THE CONTRACTOR WILL. AS REQUESTED BY THE CITY BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS. SIGNING AND PAVEMENT MARKING GENERAL NOT ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUD THE SPECIFIC ITEM.		1. MANHOLE AND UTILITY VALVE BOX ADJUSTMENTS - IT SHALL BE THE CONTRACTOR'S RESPONSBILITY TO NOTE AND MARK THE LOCATION OF EACH UTILITY VALVE BOX AND MANHOLE OCVER ON THE STREETS PRIOR TO RESURFACING THEN LOCATE AND ADJUST EACH OF THESE AFTER RESURFACING, UTILITY VALVE ADJUSTMENTS MAY BE MADE WITH ADJUSTABLE RINGS THAT CAN BE OBTAINED FROM DEKALB COUNTY WATERSHED MANAGEMENT, MANHOLE ADJUSTMENTS SHALL BE MADE IN ACCORDANCE WITH THE PROVIDED DETAIL. ADUSTMENTS SHALL BE COMPLETED WITHIN 30 DAYS OF PAVING. HIGH AND EARLY STRENGTH CONCRETE SHALL BE USED, AND PROTECTED FROM TRAFFIC FOR A MINIMUM OF 3 DAYS WITH STEEL PLATES. OR OTHER MEASURES. IN THE EVENT AN EXISTING CASTING OR STRUCTURE IS FOUND TO BE STRUCTURALLY DEFICIENT, IT SHALL BE REPORTED TO THE ENGINEER FOR EVALUATION. ADJUST ALL PROPOSED VALVES WITHIN THE PROJECT LIMITS TO THE PREVAILING FINISHED GRADE. ADJUST ALL MANHOLE COVERS WITHIN THE PROJECT LIMITS TO THE PREVAILING FINISHED GRADE. ALL MANHOLES LOCATED WITHIN ROADWAYS SHALL BE INSTALLED WITH CONCRETE COLLARS AND TRAFFIC RATED MANHOLE FRAMES AND COVERS AS	
SREF 108 SREF 098 SREF 008 SREF 018	2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRA (MUTCD), LATEST EDITION, AND ANY APPLICABLE CITY OF BROOKHAVEN STANDARDS. 3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH CURRENT GEORGIA D TRANSPORTATION STANDARDS AND SPECIFICATIONS AND/OR SPECIAL PROVISIONS. 4. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED PER GEORGIA DEPARTMENT STANDARD DETAILS.	EPARTMENT OF	PER DETAIL S-008-1. UNVENTED/SOLID MANHOLE COVERS ARE TO BE INSTALLED AT ALL LOCATIONS WITHIN THE PROJECT LIMITS. ADJUST OR RELOCATE WATER METERS AS NECESSARY. ANY METERS REQUIRING ADJUSTMENT OR RELOCATIONS MUST BE UPGRADED TO THE APPROVED METER AS PER DWM REQUIREMENTS. THIS REQUIRES THAT THE CONTRACTOR CONTACT DEKALB WATERSHED MANAGMENT, ENIGNEERING & CONSTRUCTION MANAGMENT DIVISION. IN ORDER TO OBTAIN AN APPROVED METER AND RETROFIT FOR WATER METER INSTALLATIONS WITHIN THE PROJECT LIMITS. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATERSHED MANAGEMENT BEFORE CHANGES ARE IMPLEMENTED. BEKALB COUNTY WATERSHED STANDARDS ARE AVAILABLE ONLINE, FOR FREE, VIA: https://www.dekalbcountyga.gov/watershed-management/office-engineering-construction-management-services TO PURCHASE A HARD COPY OF THE DESIGN STANDARDS AND DETAIL, PLEASE CALL (770) 414-2383 OR (770) 621-7272.	
			10. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS AND DETAILS IN DEKALB COUNTY POTABLE WATER MAIN, GRAVITY SANITARY SEWER, SANITARY SEWER, AND FORCE MAIN DESIGN STANDARDS, 2017 ADDITION. SEE APPENDIX D FOR POTABLE WATER MAIN STANDARD DETAILS. SEE APPENDIX I FOR GRAVITY SANITARY SEWER STANDARD DETAILS. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR. STANDARD DETAILS W-008, W-020, AND W-021 ARE PROVIDED IN APPENDIX A AND CAN BE REFERENCED FOR WATER METER RELOCATIONS. STANDARD DETAIL W-004 IN APPENDIX A CAN BE REFERENCED FOR FIRE HYDRANT INSTALLATIONS. 11. AS-BUILT DRAWINGS SHALL BE FURNISHED TO DWM AT THE CONCLUSION OF THE PROJECT IN BOTH AN ELECTRONIC AND HARD COPY FORMATS. REVISION DATES GENEI REVISION DATES	RAL NOTES
SPEF 038 SPEF 048 SPEF 038 SPEF 028 SPEF 018		Michael Ba INTERNATIO 420 TECHNOLOGY ·PARKWAY, STE NORCROSS, GEORGIA 30092 (770) 263-9118	N A L	DATE:





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			\neg					1	A-5	WINDSOR PKWY	+	RT		42		1					
	TRAFFIC CONTROL				CONCRETE	HEADER C	URB, 6 IN, TP 7		A-5.1 A-4	WINDSOR PKWY WINDSOR PKWY		RT LT		28 68		1					
LUM	IP SUM			TOTAL			230 LF		A-3	OSBORNE RD	30+60	RT		68				1			
									A-2 A-1	OSBORNE RD OSBORNE RD	31+19 31+98	RT PT		80 35				1		1	
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, INCLUDE	'S CLEARING AND GRUBBING								B-1	WINDSOR PKWY		RT		45							
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	CONC. SIDEWALK,	<u> </u>			\\\	~~~		`	WINDSOR	PKWY STA. 11+08, LT	COMM	ASPH	46	TN 10	TN 10	TN 40	GAL 10	SY	SY	SY	SY
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TOTAL		570 SY			<u> </u>			<i>)</i>	WINDSOR	PKWY STA. 21+31, LT RD STA. 30+84, LT		CONC	15 16						15 15		5 30
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SUMMARY OF QUANTITIES

	PERMANENT EROSION CONTROL ITEMS		
700-7000	AGRICULTURAL LIME	TN	1
700-8000	FERTILIZER MIXED GRADE	TN	1
700-8100	FERTILIZER NITROGEN CONTENT	LB	12
700-9300	SOD	SY	1930
711-0100	TURF REINFORCING MATTING, TP 1	SY	50
716-2000	EROSION CONTROL MATS, SLOPES	SY	40

	TEMPORARY EROSION CONTROL ITEMS		
161-1000	EROSION CONTROL PROJECT NO	LS	0
163-0232	TEMPORARY GRASSING	AC	1
163-0240	MULCH	TN	39
163-0300	CONSTRUCTION EXIT	EA	1
163-0527	CONSTRUCT AND REMOVE RIP RAP CHECK DAM, STONE PLAIN RIP RAP/SAND BAGS	EA	3
163-0550	CONSTRUCT, MAINT., & REMOVE INLET SEDIMENT TRAP	EA	13
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	250
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	60
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	1
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	13
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	2
167-1500	WATER QUALITY INSPECTIONS	MO	0
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	500

	SIGNING & MARKING ITEMS		
610-9001	REM SIGN	EA	6
611-5551	RESET SIGN	EA	6
636-2070	GALV STEEL POSTS, TP 7	LF	250
636-2090	GALV STEEL POSTS, TP 9	LF	60
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	70
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	50
653-0296	THERMOPLASTIC PVMT MARKING, WORD, TP 15	EA	4
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1,050
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	110
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	80
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	1,450
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	820
654-1001	RAISED PVMT MARKERS, TP 1	EA	30
632-0003	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	EA	5

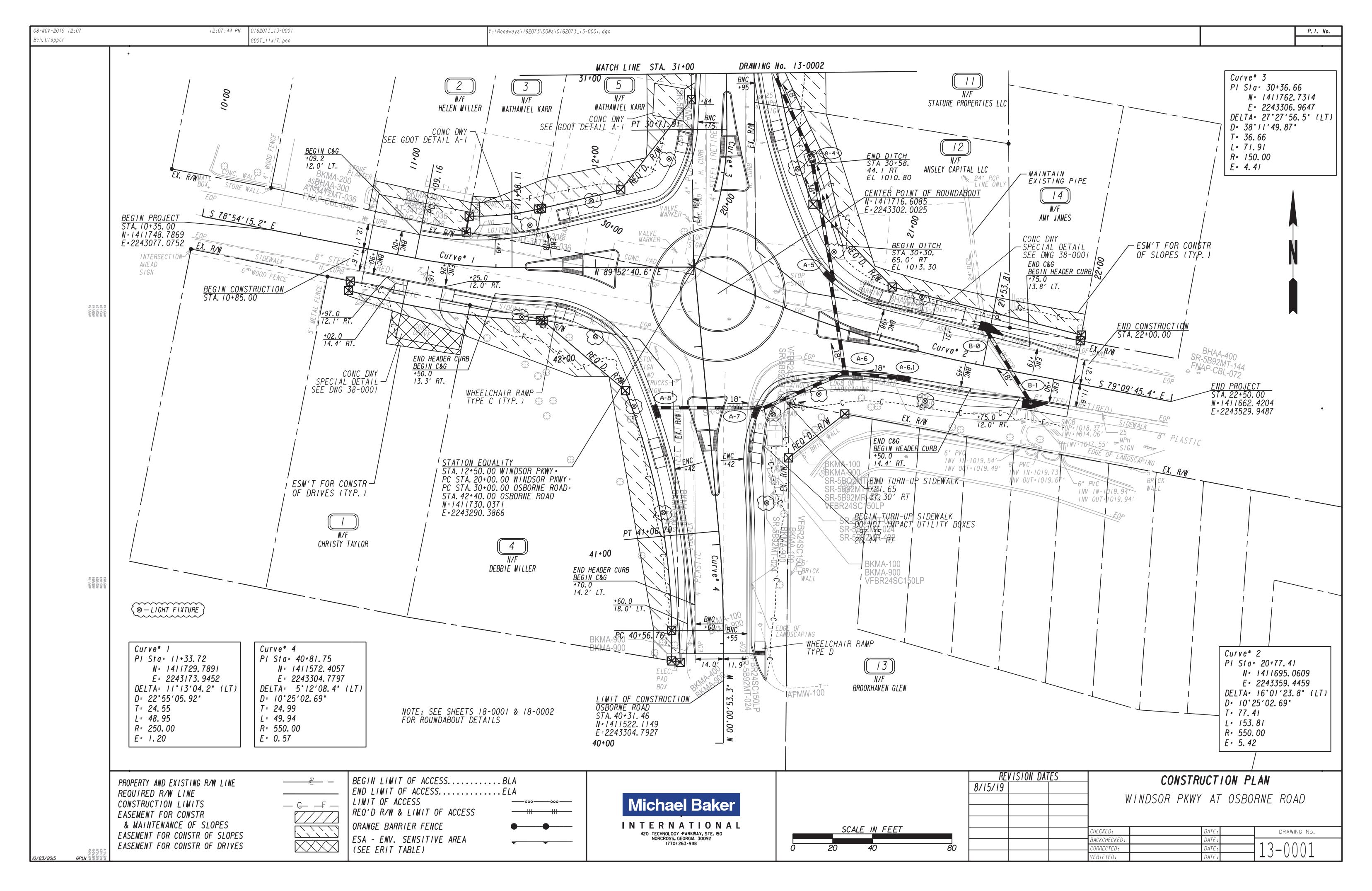
UTILITY ADJUSTMENTS	
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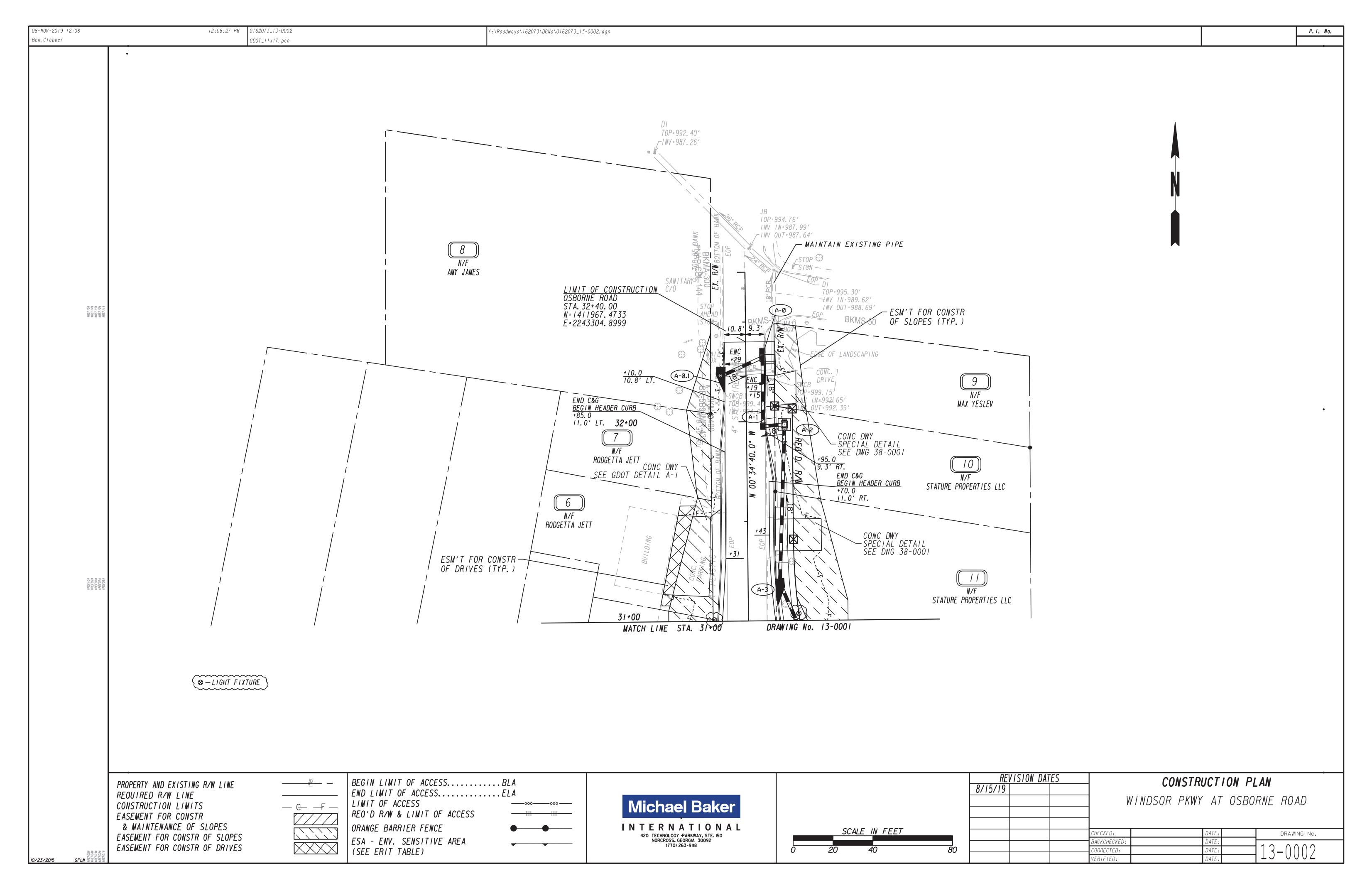
611-8050	ADJUST MANHOLE TO GRADE	EA	/
611-8120	ADJUST WATER METER BOX TO GRADE	EA	4
611-8140	ADJUST WATER VALVE BOX TO GRADE	EA	9

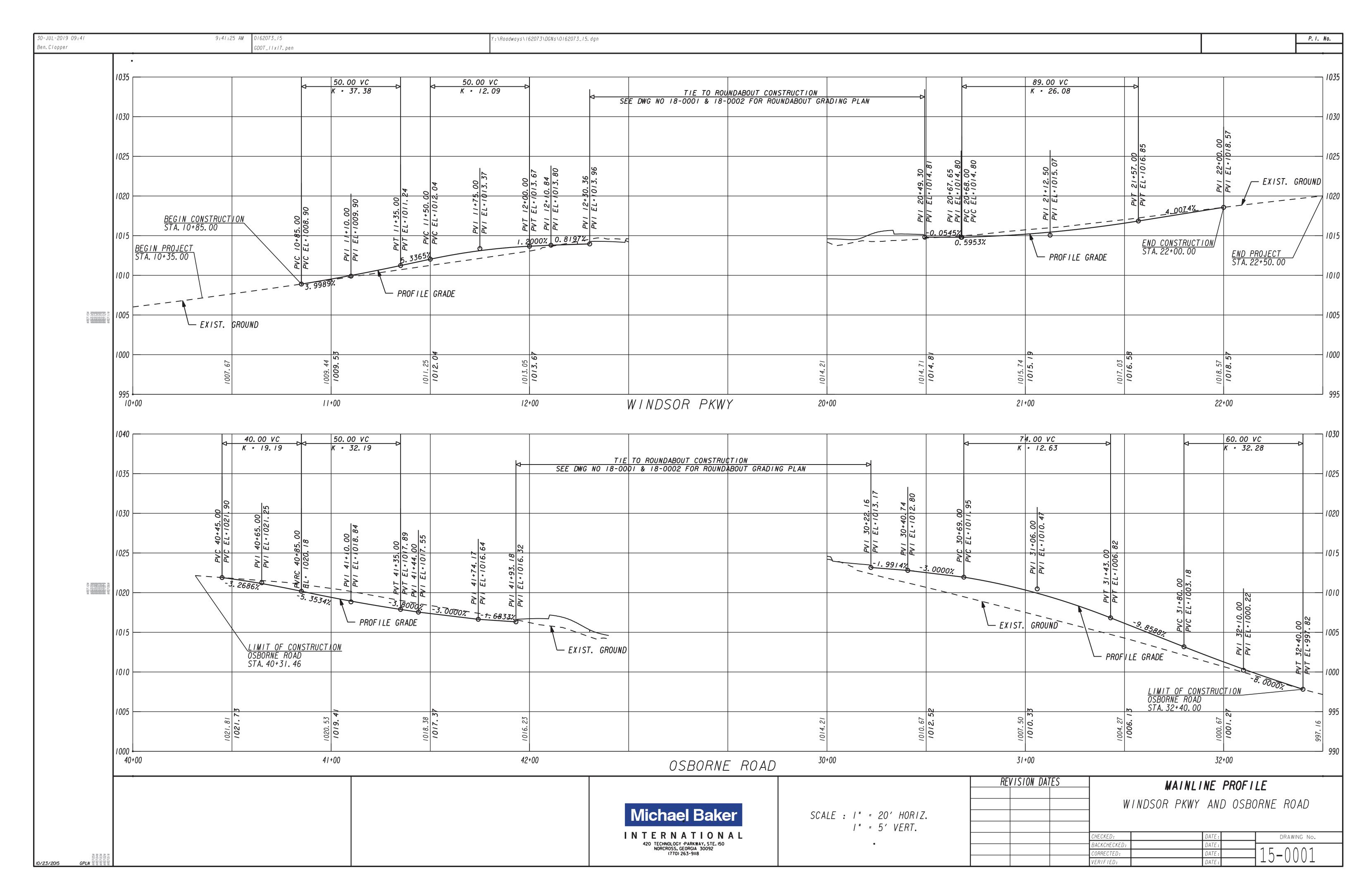
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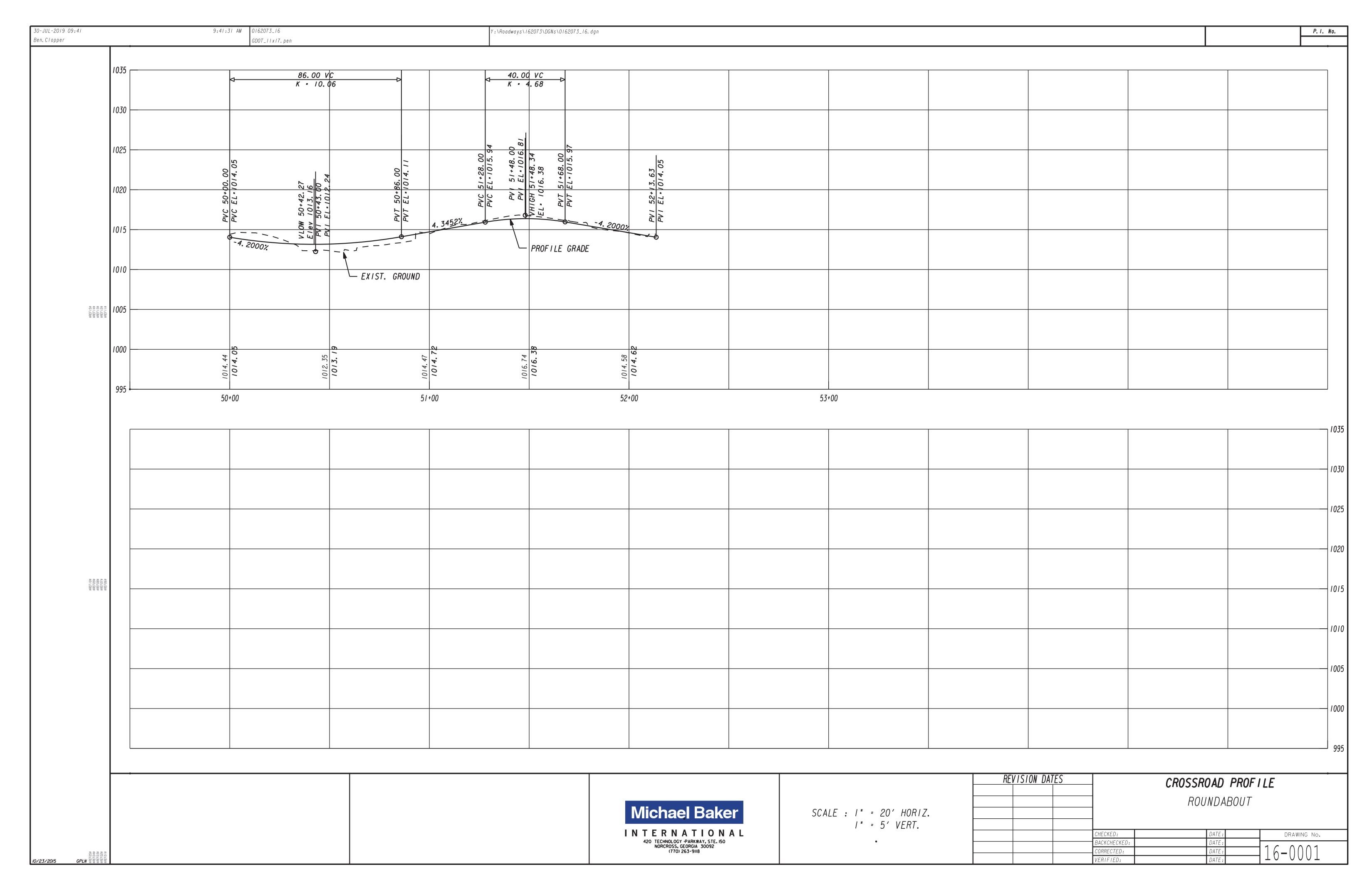
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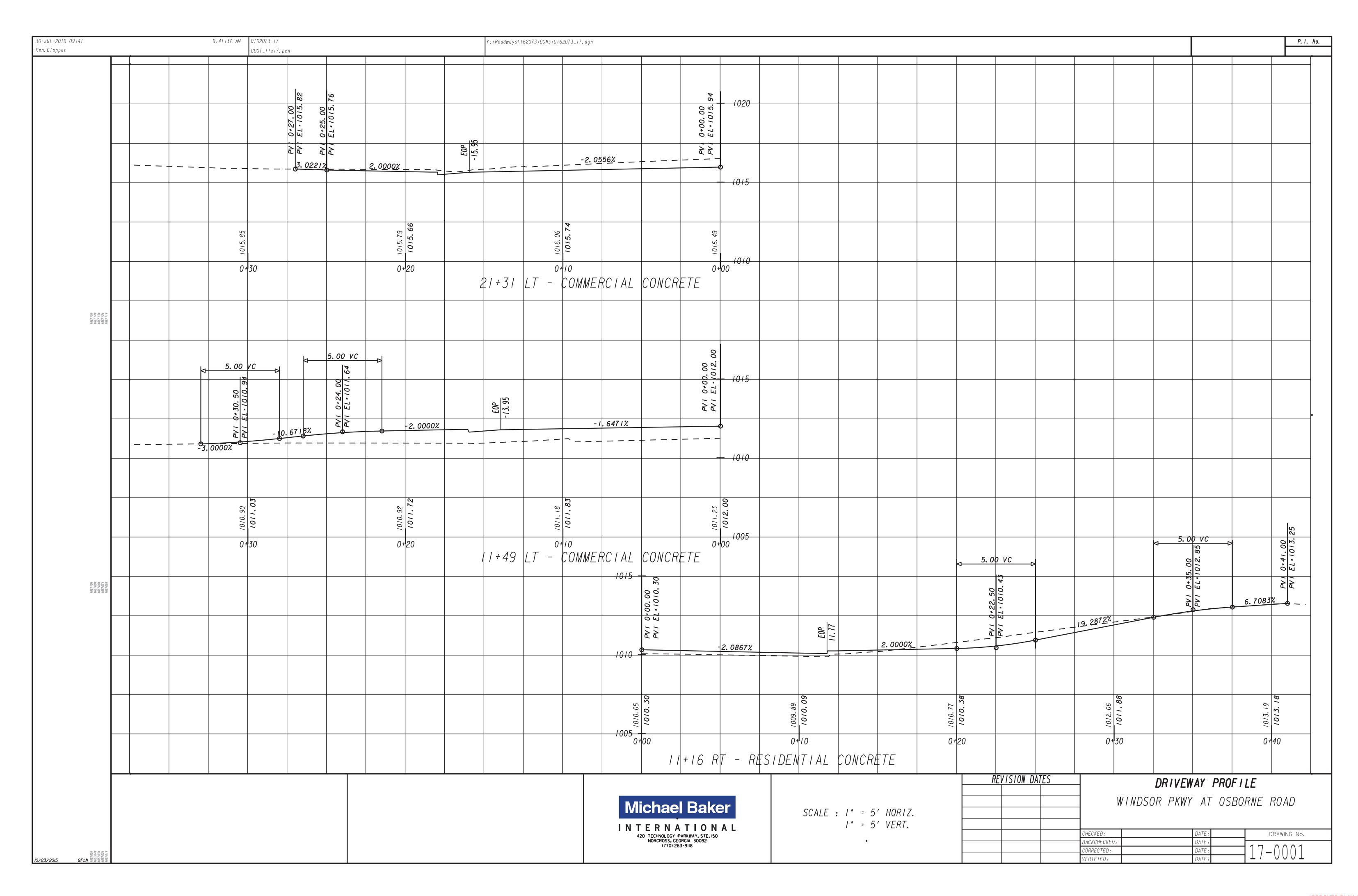
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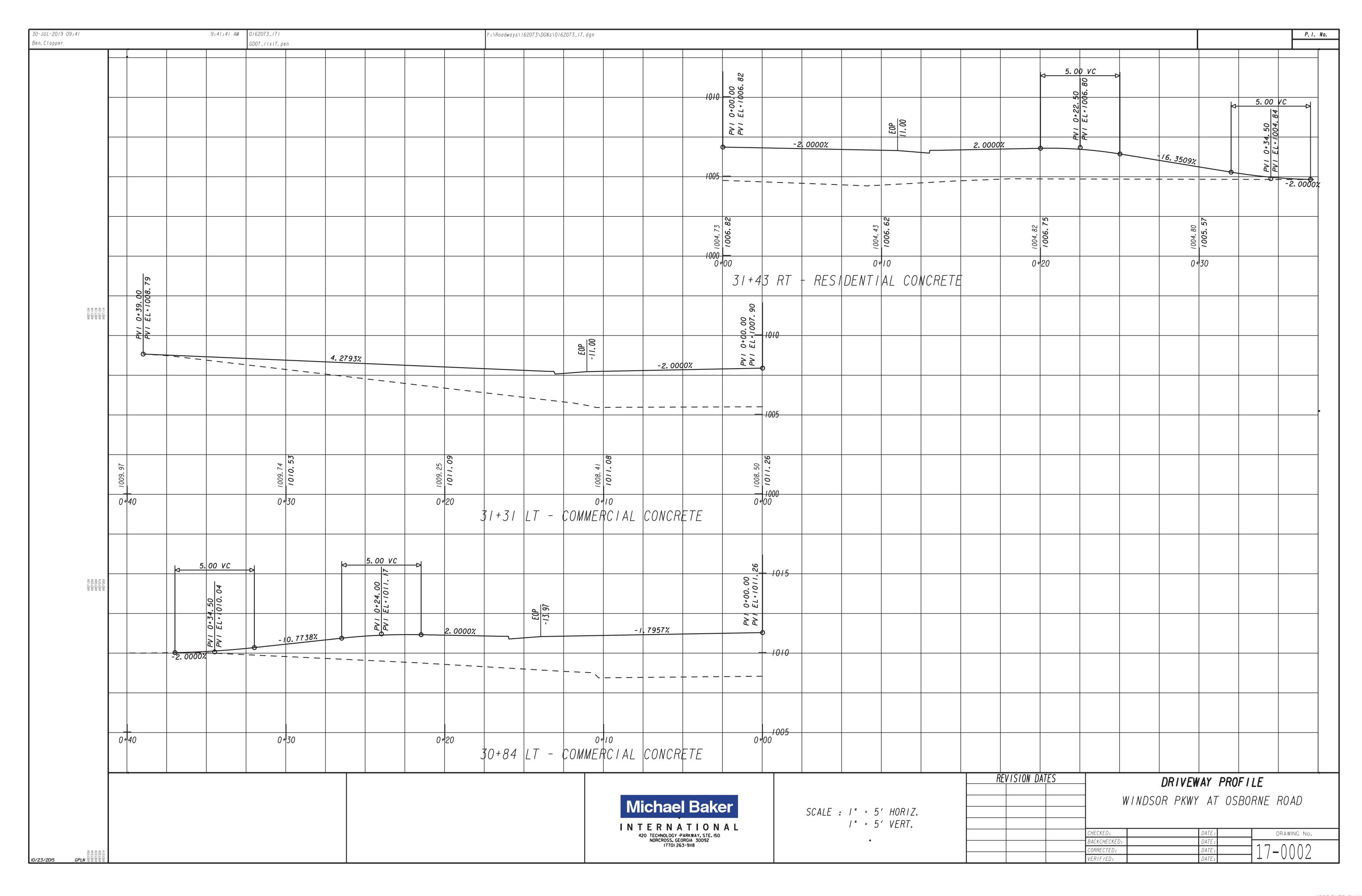


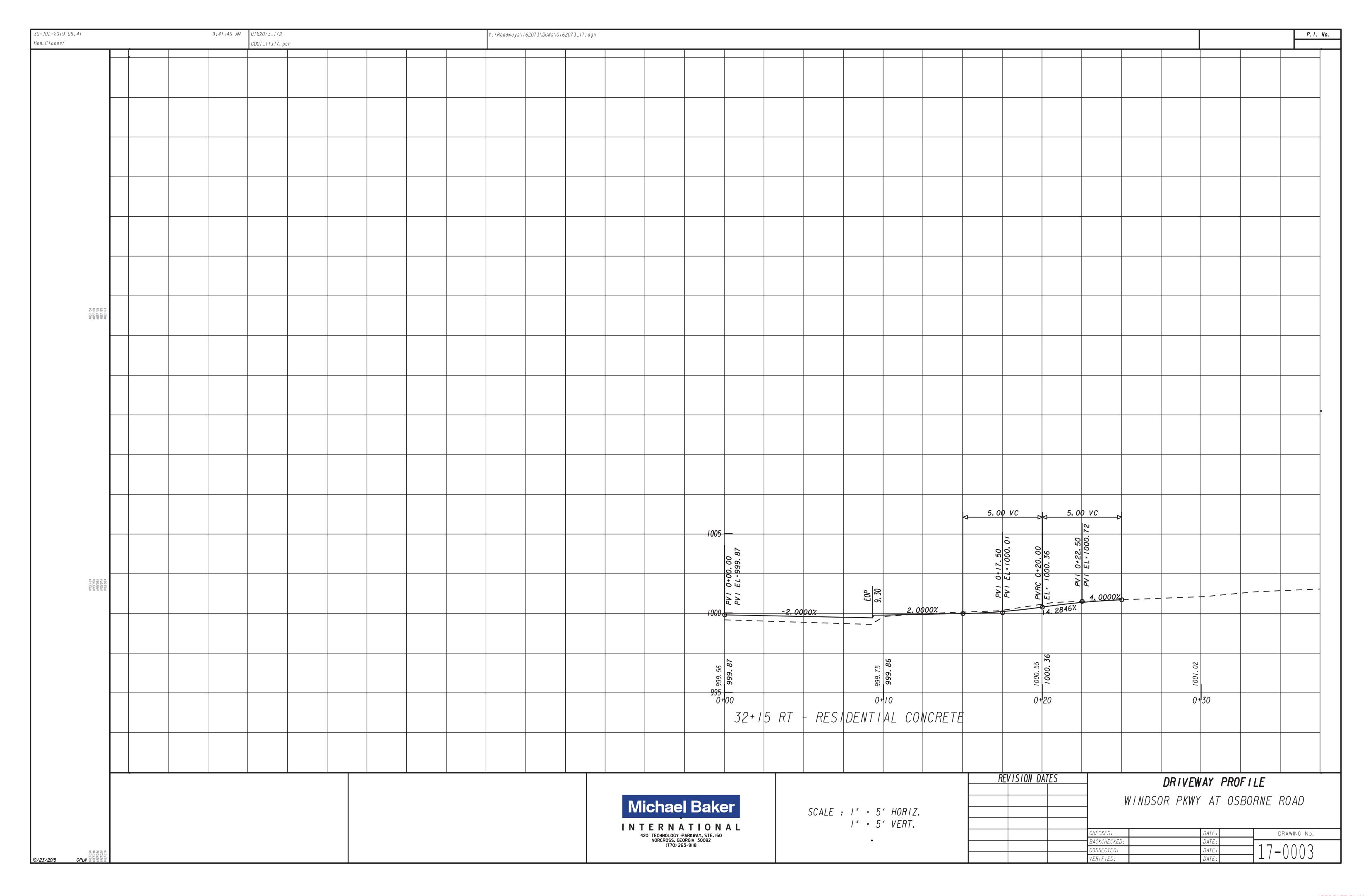


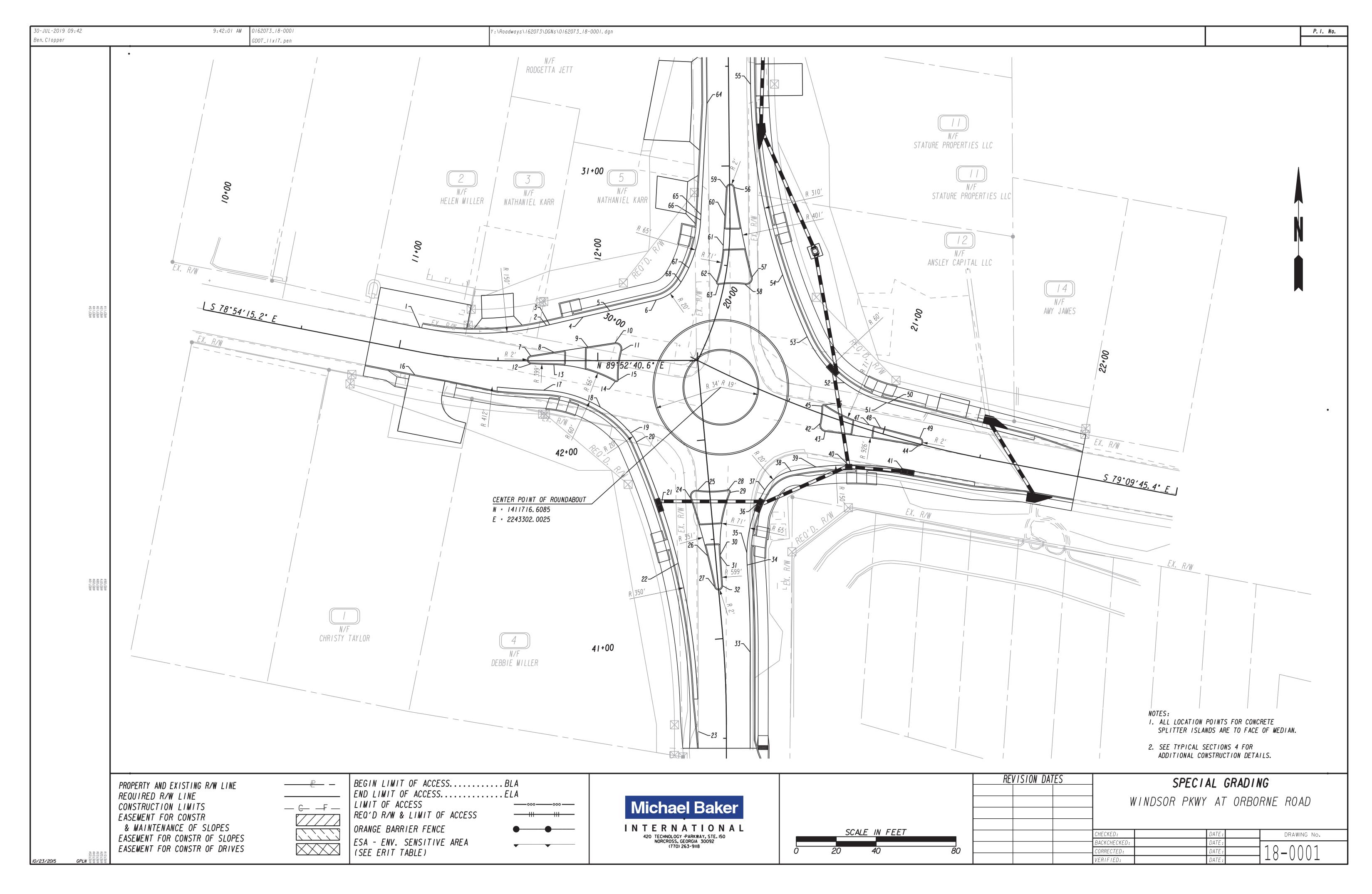


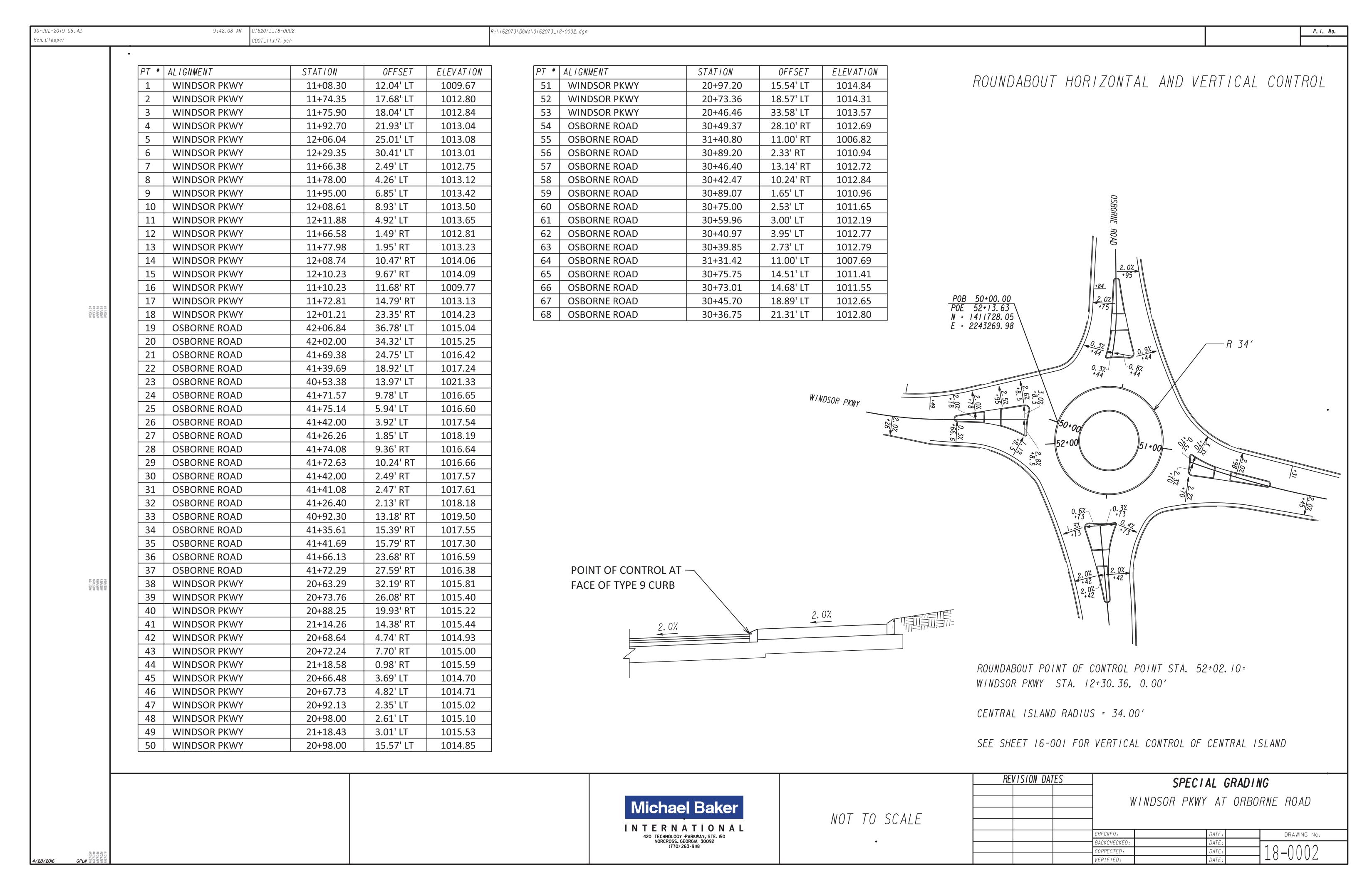


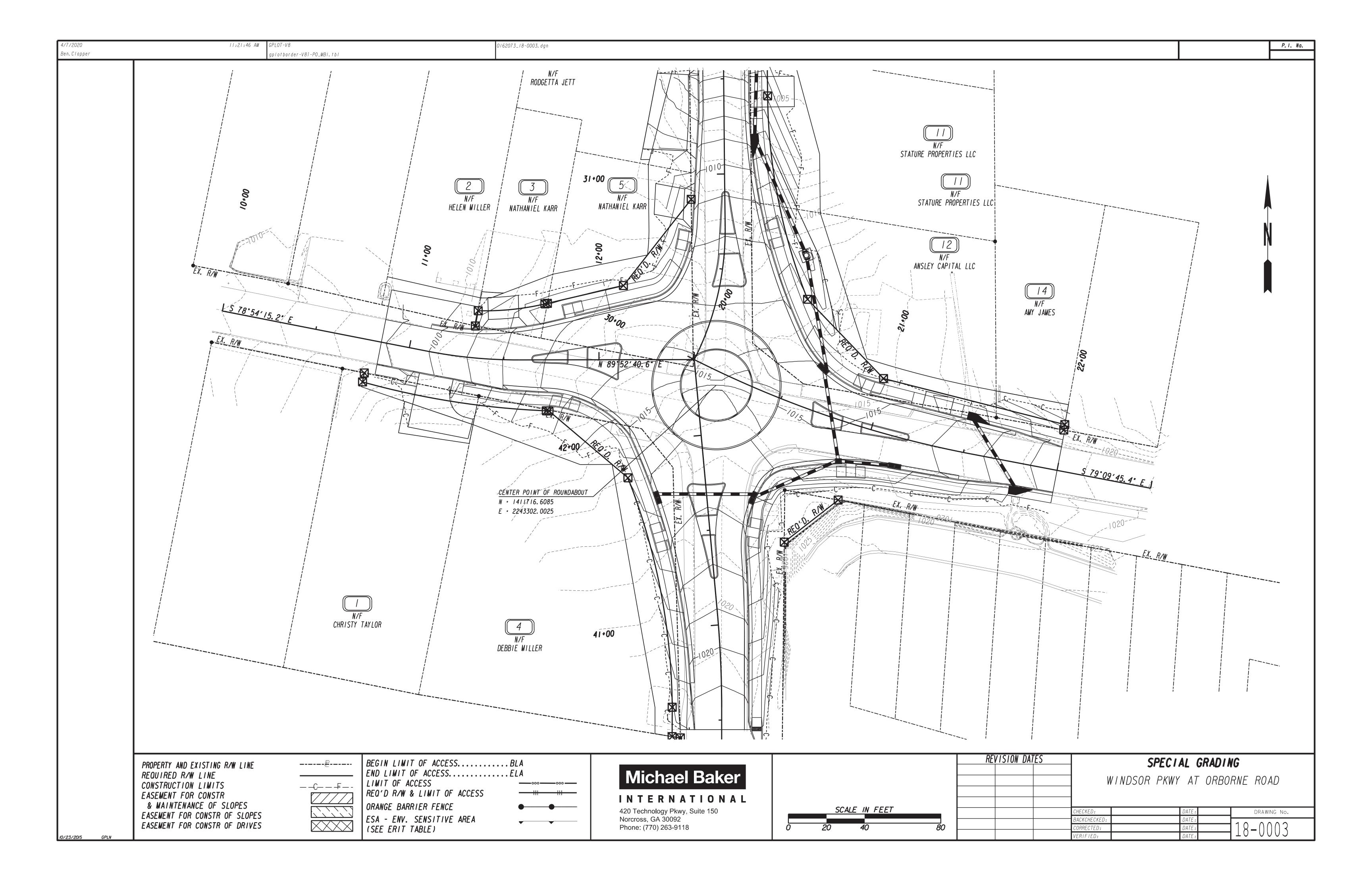


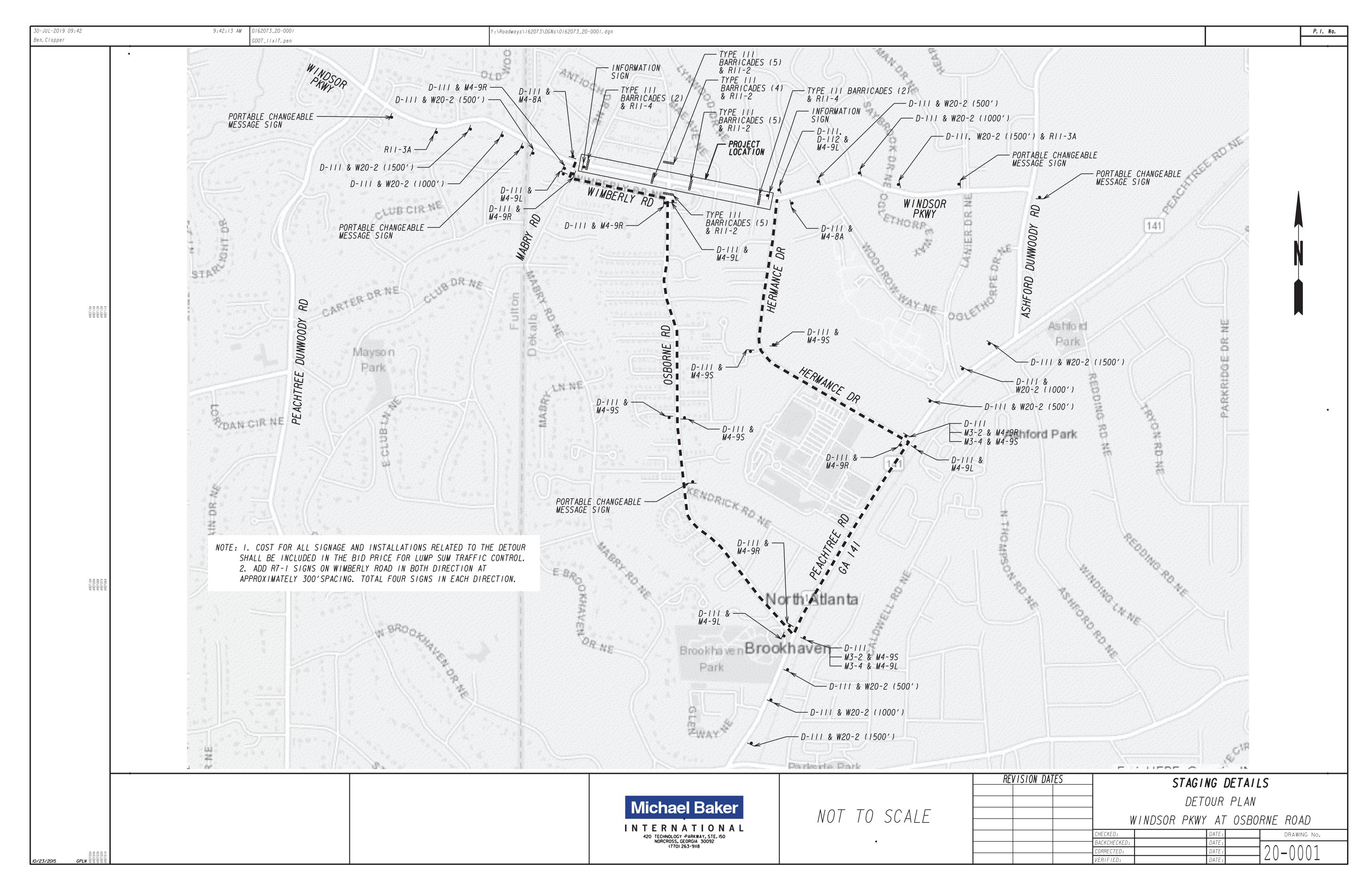




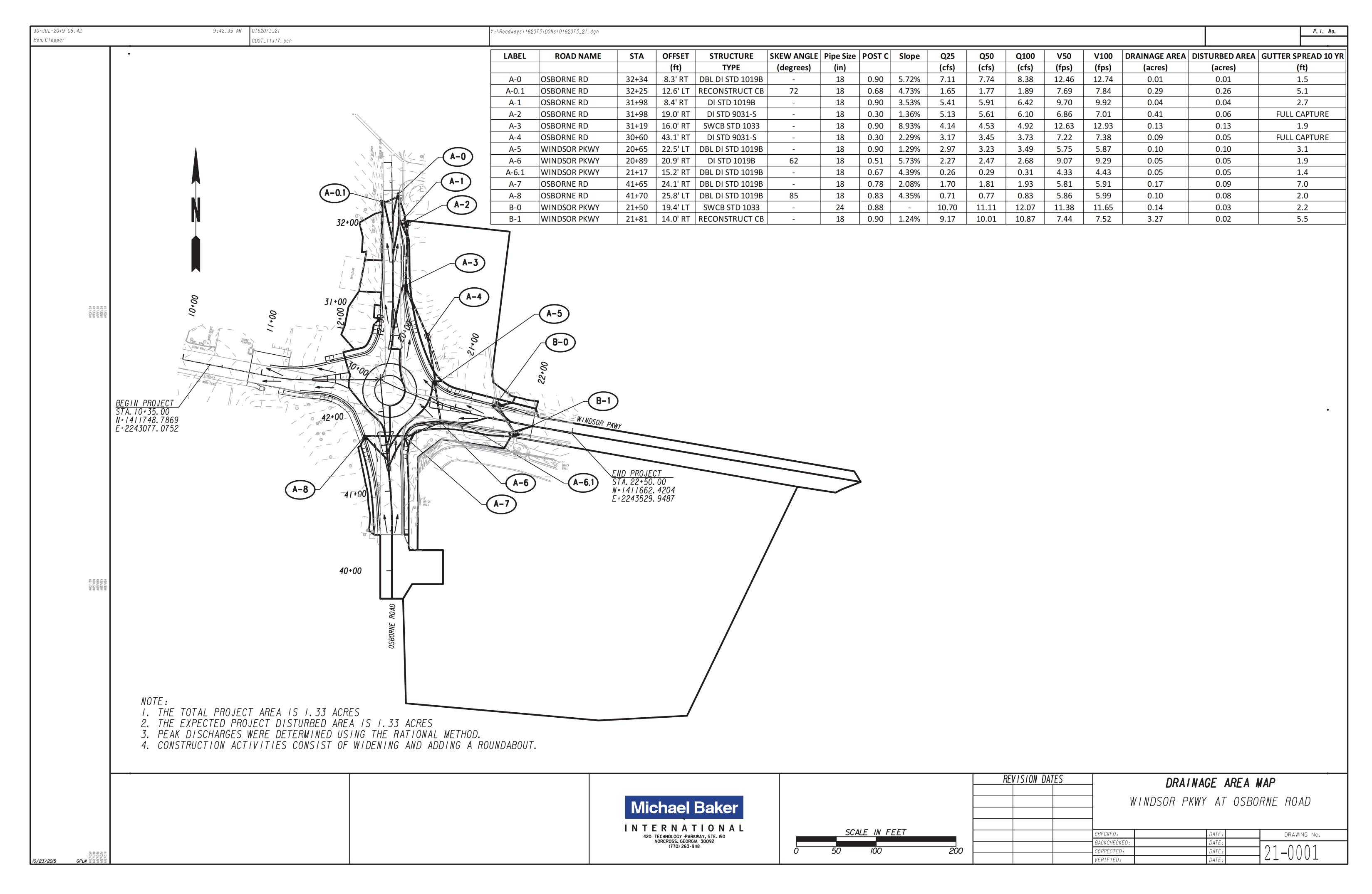


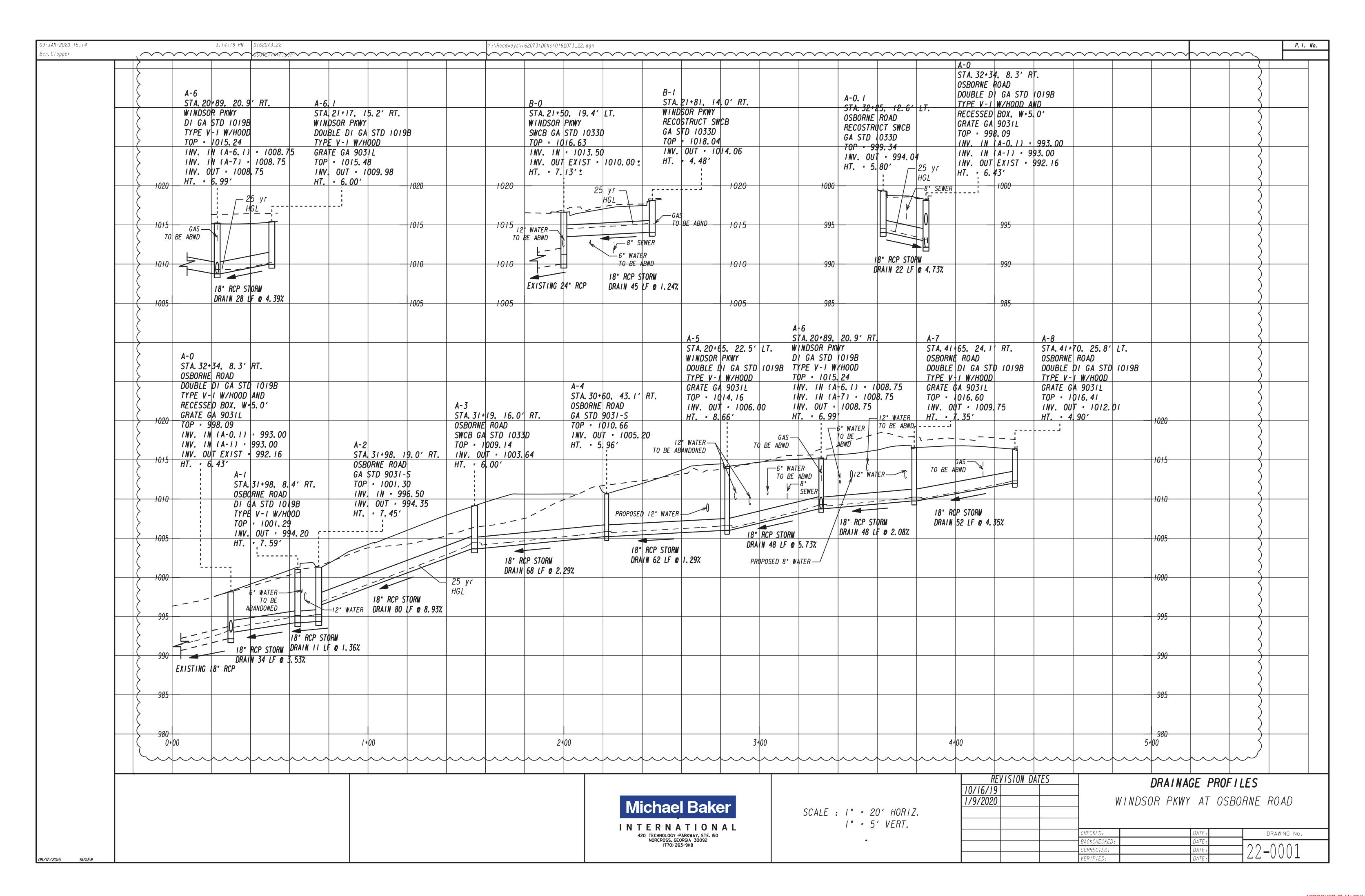


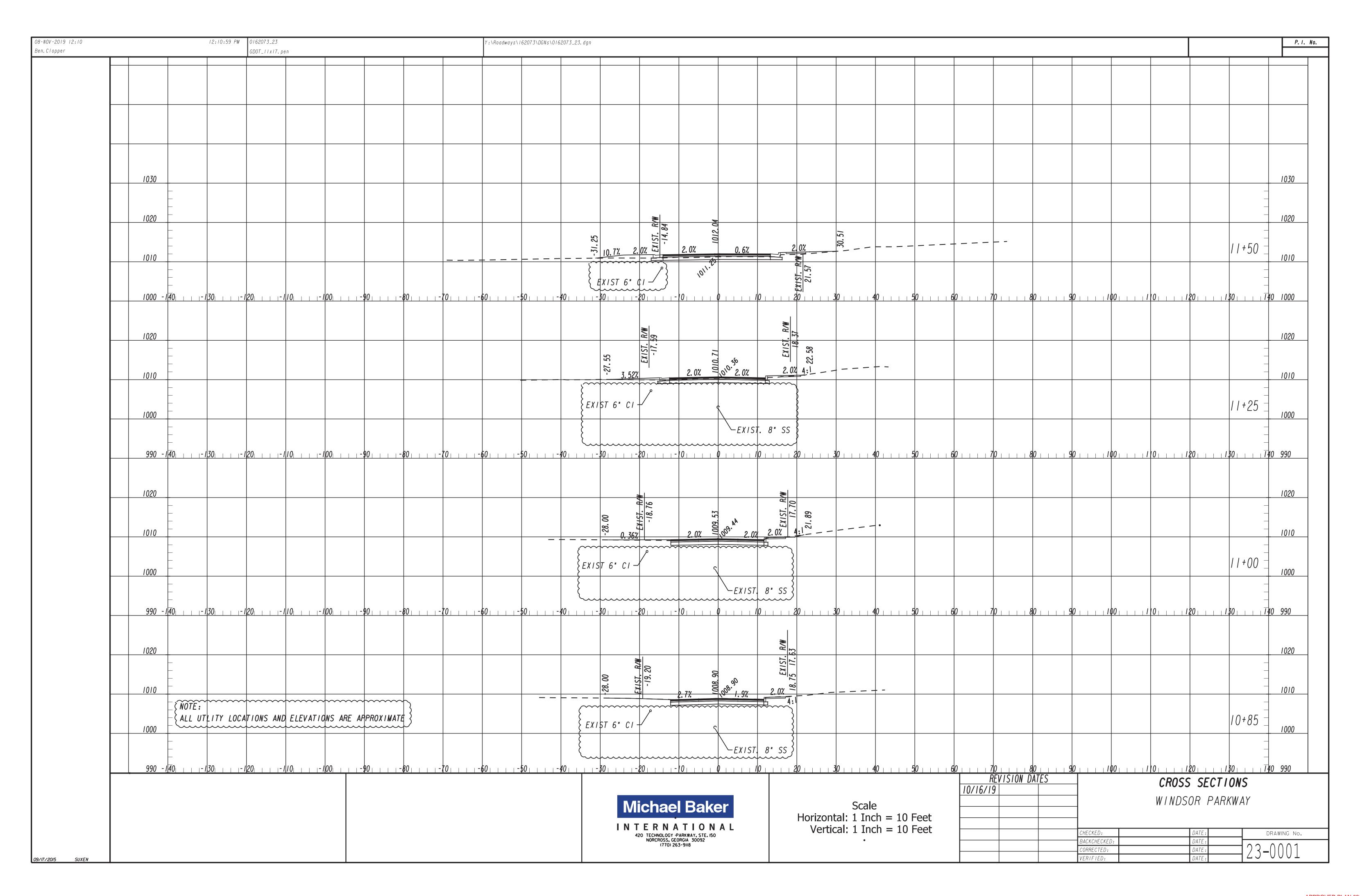


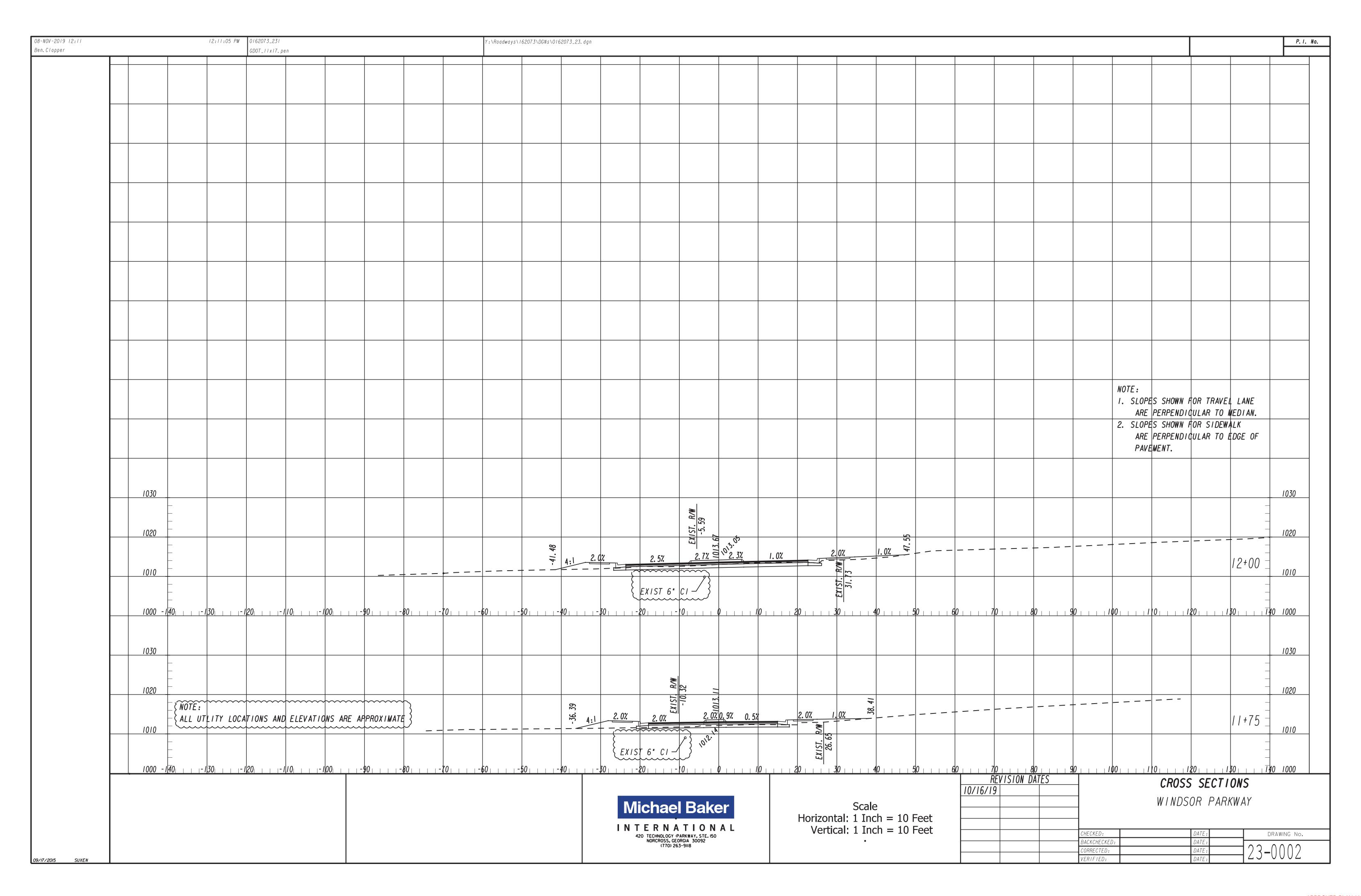


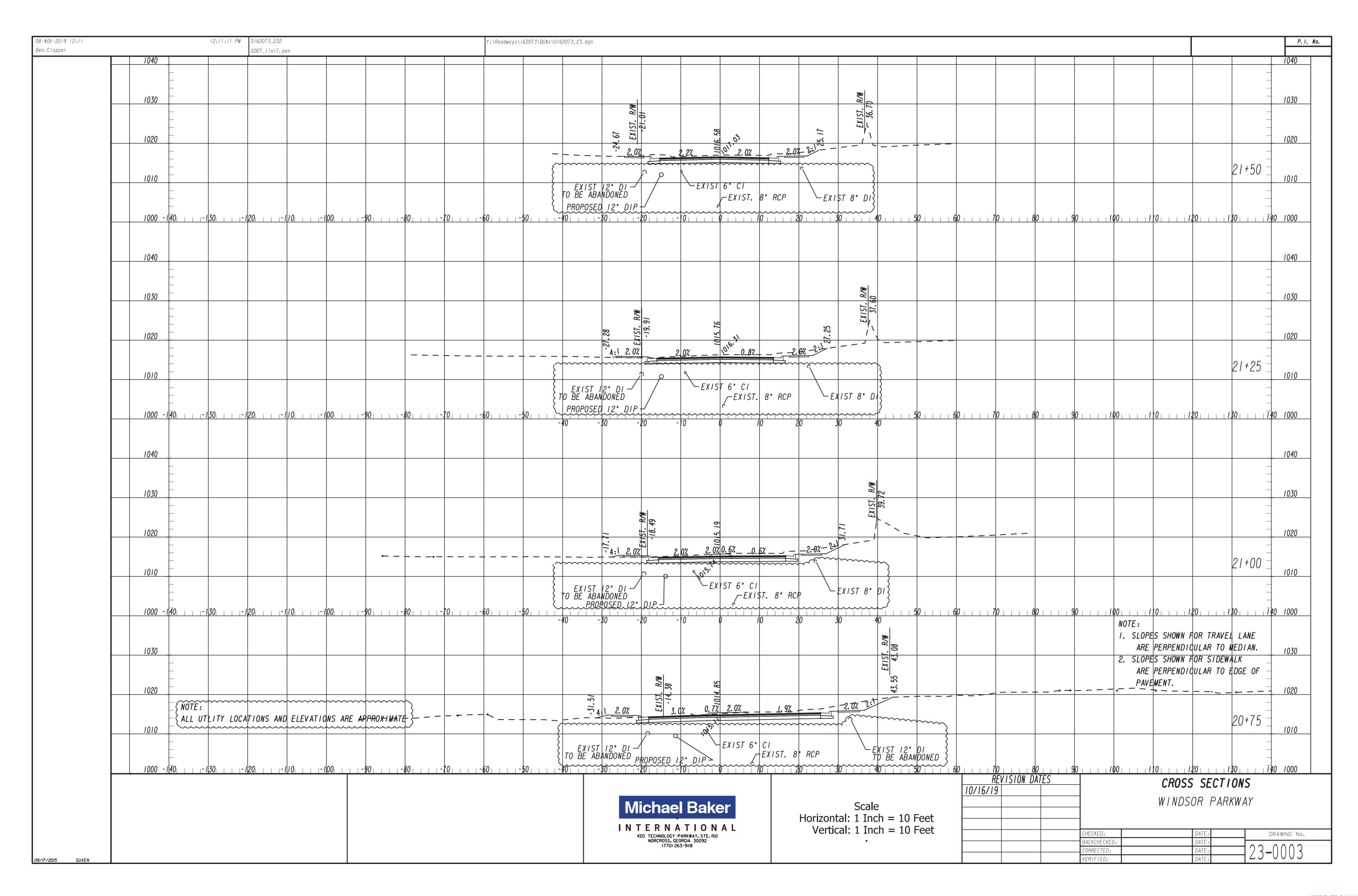
0-JUL-2019 09:42 0162073_20-0002 \Roadways\162073\DGNs\0162073_20-0002.dgn P. I. No. Ben. Clopper DOT_IIxI7.pen GENERAL NOTES FOR DETOUR SIGNING PLAN I. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM D-111 TRAFFIC CONTROL DEVICES (LATEST EDITION). 30" X 8" 2. ALL SIGNS SHALL HAVE HIGH INTENSITY GRADE SHEETING. 3. IN RESIDENTIAL AREAS, SIGNS SHALL BE LOCATED ON, OR AS CLOSE AS POSSIBLE TO PROPERTY LINES. END NO PARKING ANY TIME DETOUR ROAD CLOSED DETOUR 4. EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. MAINTENANCE INCLUDES REPLACING DAMAGED OR STOLEN SIGNS, 500 FT Ø.5 MILES AHEAD M4-8a AND PERIODIC CLEANING OF EXISTING SIGNS AND CONSTRUCTION RELATED TRAFFIC LOCAL TRAFFIC ONLY CONTROL DEVICES, DETOUR AND OTHER CLOSURE SIGNS/DEVICES SHALL BE INSTALLED 24" X 18" SO AS TO NOT BLOCK SIGHT OF EXISTING TRAFFIC SIGNS. RII-3a R7 - I W20-2 60" X 30" 12" X 18" DETOUR 5. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO DRIVEWAYS AT ALL TIMES. (500′) 36" X 36" 6. ALL M4-9 SIGNS SHALL HAVE ADVISORY BLADES (INSTALLED ABOVE THE "DETOUR" SIGN) IDENTIFYING THE CLOSED STREET(S) THAT THE DETOUR ROUTE SERVES. THESE BLADES M4-9L ROAD CLOSED SHALL HAVE 4" SERIES 'B' UPPER AND LOWER CASE LETTERING, AND SHALL BE SREF I 58 SREF I 48 SREF I 38 SREF I 28 SREF I 18 30" X 24" "BLACK ON ORANGE". DETOUR THRU TRAFFIC 7. ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR SO AS TO NOT 1000 FT M3-4 DETOUR INTERFERE WITH SIGHT DISTANCES FROM ANY ADJACENT SIDE ROAD OR DRIVEWAY. R11-4 24" X 12" 60" X 30" 8. REFLECTORIZED TYPE 3 BARRICADES SHALL BE USED AT THE ACTUAL LOCATION OF TOTAL STREET CLOSURE. EACH BARRICADE SHALL HAVE ONE RII-2 (ROAD CLOSED) SIGN PLACED W20-2 M4-9R ADJACENT TO IT. (1000′) 30" X 24" ROAD 36" X 36" 9. ALL SIGN POST SHALL BE TYPE 7,8 OR 9 SQUARE TUBE POST WITH MINIMUM HEIGHT OF 7' FROM LOSEE EXISTING GROUND TO BOTTOM OF SIGN. SEE GDOT DETAIL T-3A FOR ADDITIONAL INFORMATION. DETOUR M3-2IO. ALL SIGN POST ALONG SR 141 SHALL BE TYPE 7 OR 9 SQUARE TUBE POST (2 POST) WITH MINIMUM 24" X 12" R11-2 HEIGHT OF 7' FROM EXISTING GROUND TO BOTTOM OF SIGN. SEE GDOT DETAIL T-3A FOR ADDITIONAL 48" X 30" INFORMATION. 1500 FT M4-95 30" X 24" II. CONTRACTOR TO COORDINATE WITH THE CITY FOR THE INFORMATION AND SCHEDULE FOR THE PORTABLE CHANGEABLE MESSAGE SIGN. W20-212. INFORMATION SIGNS (INFORMING MOTORISTS OF THE ROAD CLOSURE) SHALL BE INSTALLED (1500′) A MINIMUM OF 2 WEEKS PRIOR TO ROAD CLOSURE. THESE SIGNS SHALL BE INSTALLED AT 36" X 36" OR AS NEAR AS POSSIBLE TO THE POINT OF ROAD CLOSURE OR THE BEGINNING OF THE DETOUR ROUTE, OR AS SHOWN ON APPROVED PLANS (SEE SPECIFICATIONS BELOW): SREF10s SREF09s SREF08s SREF07s ____WILL BE CLOSED TO THRU TRAFFIC TYPE III BARRICADE (4' MIN LENGTH) FROM (ROAD) TO (ROAD) (DATE) THRU (DATE) (MIN 25 BARRICADES) (REASON FOR CLOSURE) FOR INFO CALL _____ WINDSOR PKWY/OSBORNE RD INTERSECTION WILL BE (CITY MAY REQUIRE MODIFICATION OF INFORMATION SIGNS AS NEEDED) CLOSED TO THRU TRAFFIC FROM (DATE) TO (DATE) THESE SIGNS SHALL BE TYPE 9 REFLECTIVE SHEETING MATERIAL WITH 4" BLACK UPPER AND LOWER CASE FOR INFO (XXX) XXX-XXXX _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ LETTERING (SERIES "B" OR WIDER) ON A WHITE BACKGROUND. PORTABLE CHANGEABLE INFORMATION SIGNS Milities Protection Center. Inc MESSAGE SIGN INSTALLED A MINIMUM DETOUR ROUTE Know what's DOIOW. Call before you dig. OF 14 DAYS IN ADVANCE REVISION DATES STAGING DETAILS Michael Baker NOT TO SCALE INTERNATIONAL HECKED: DRAWING No. BACKCHECKED 20-0002 ORRECTED:

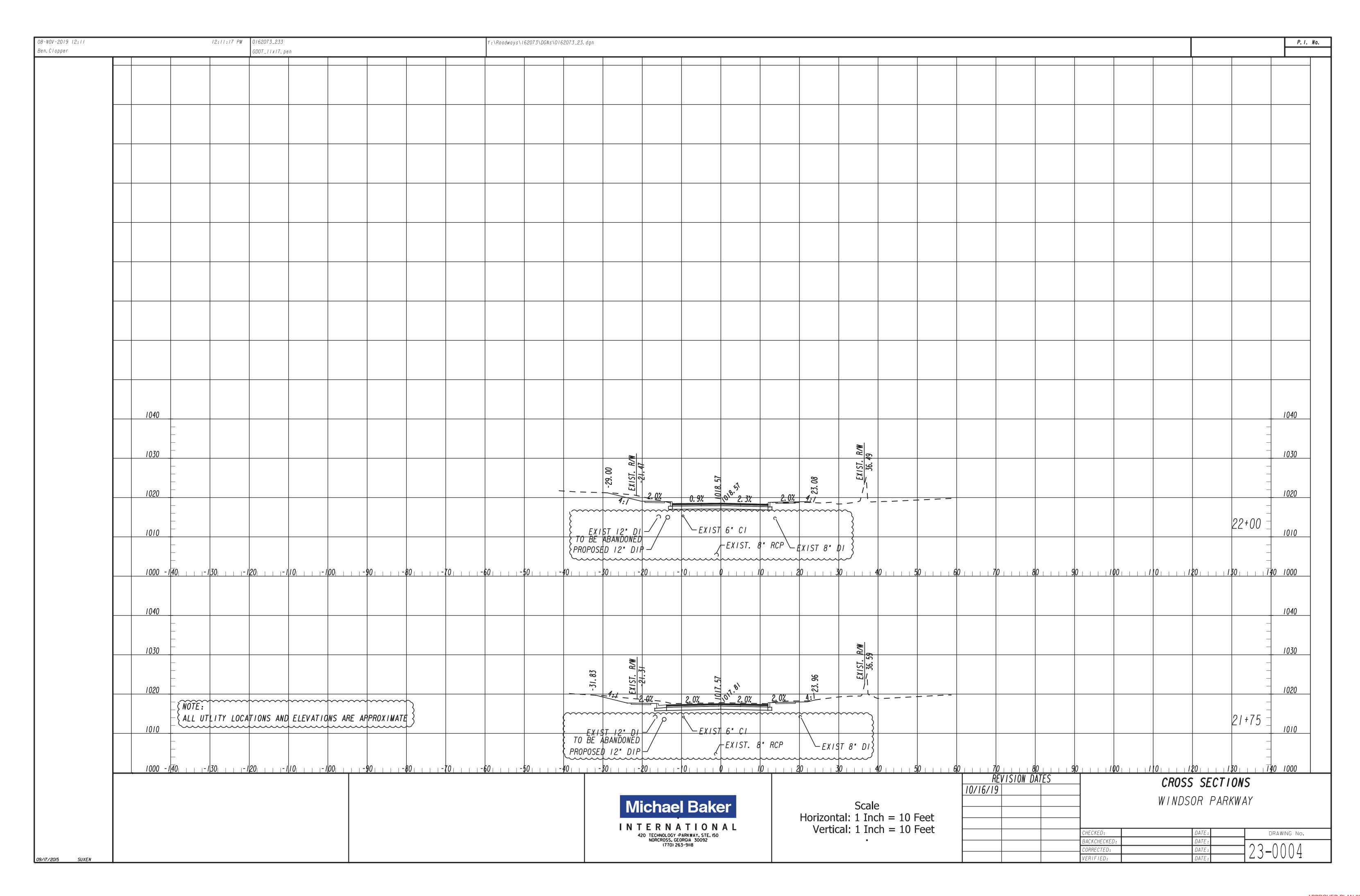


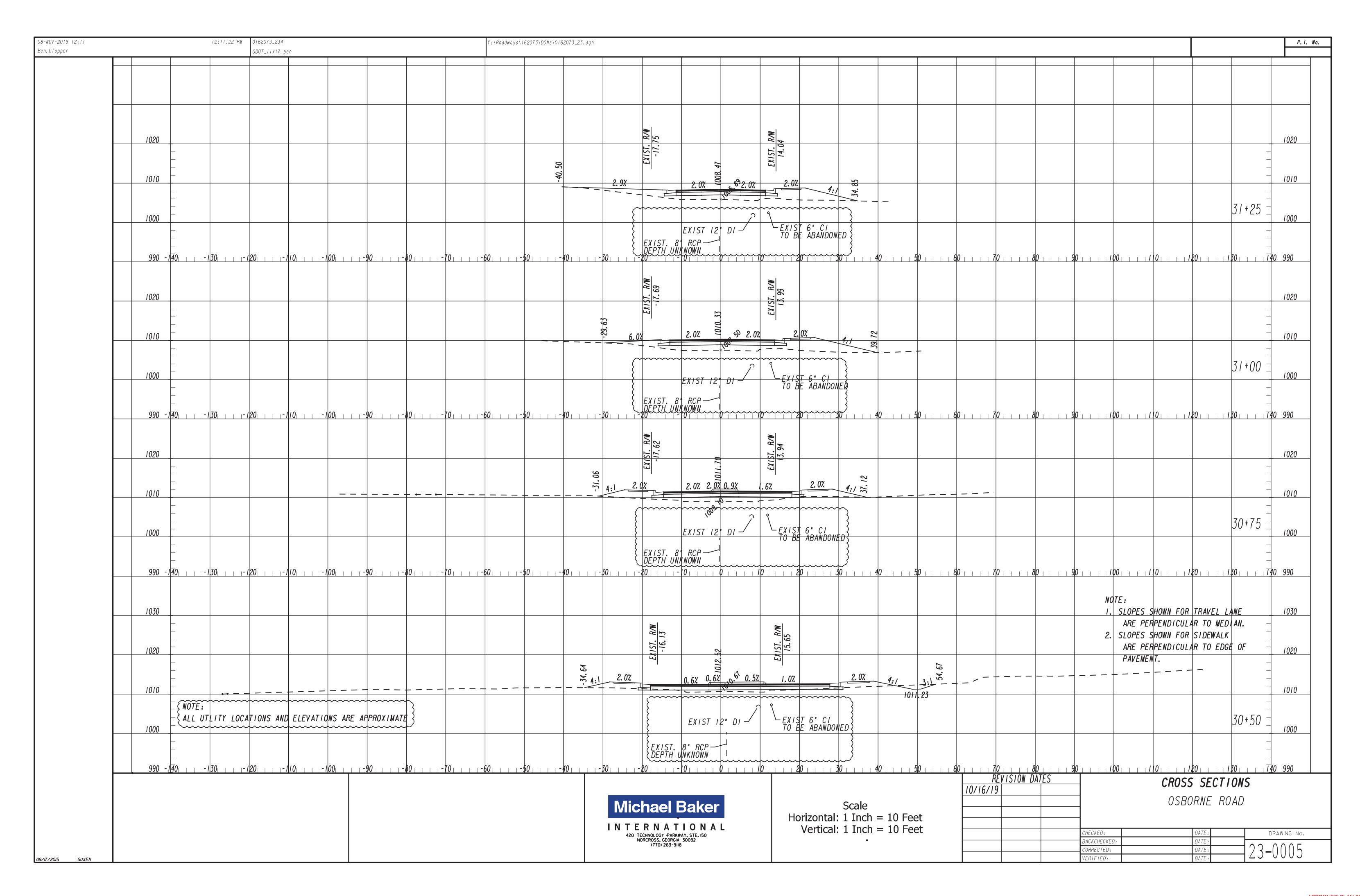


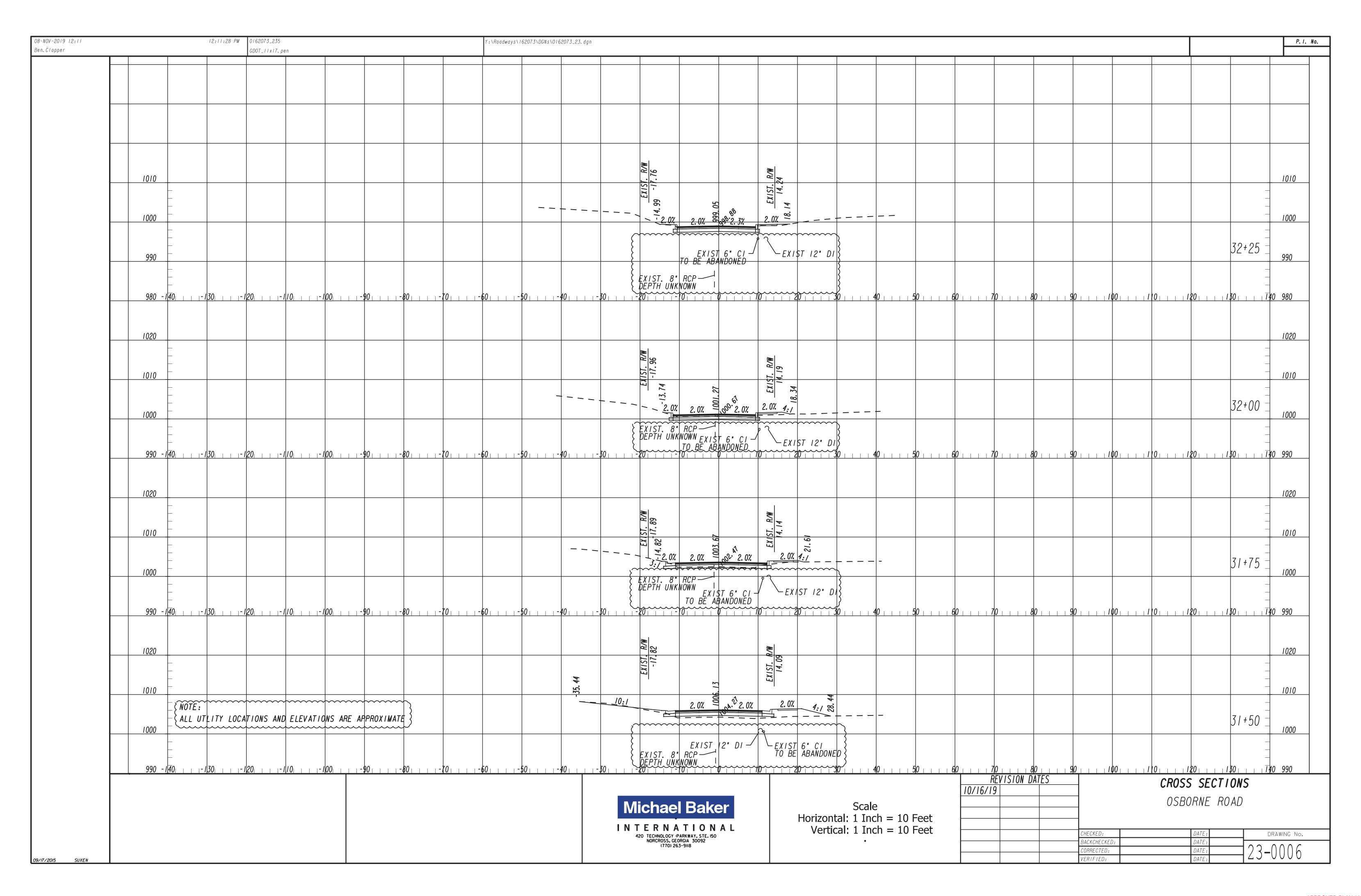


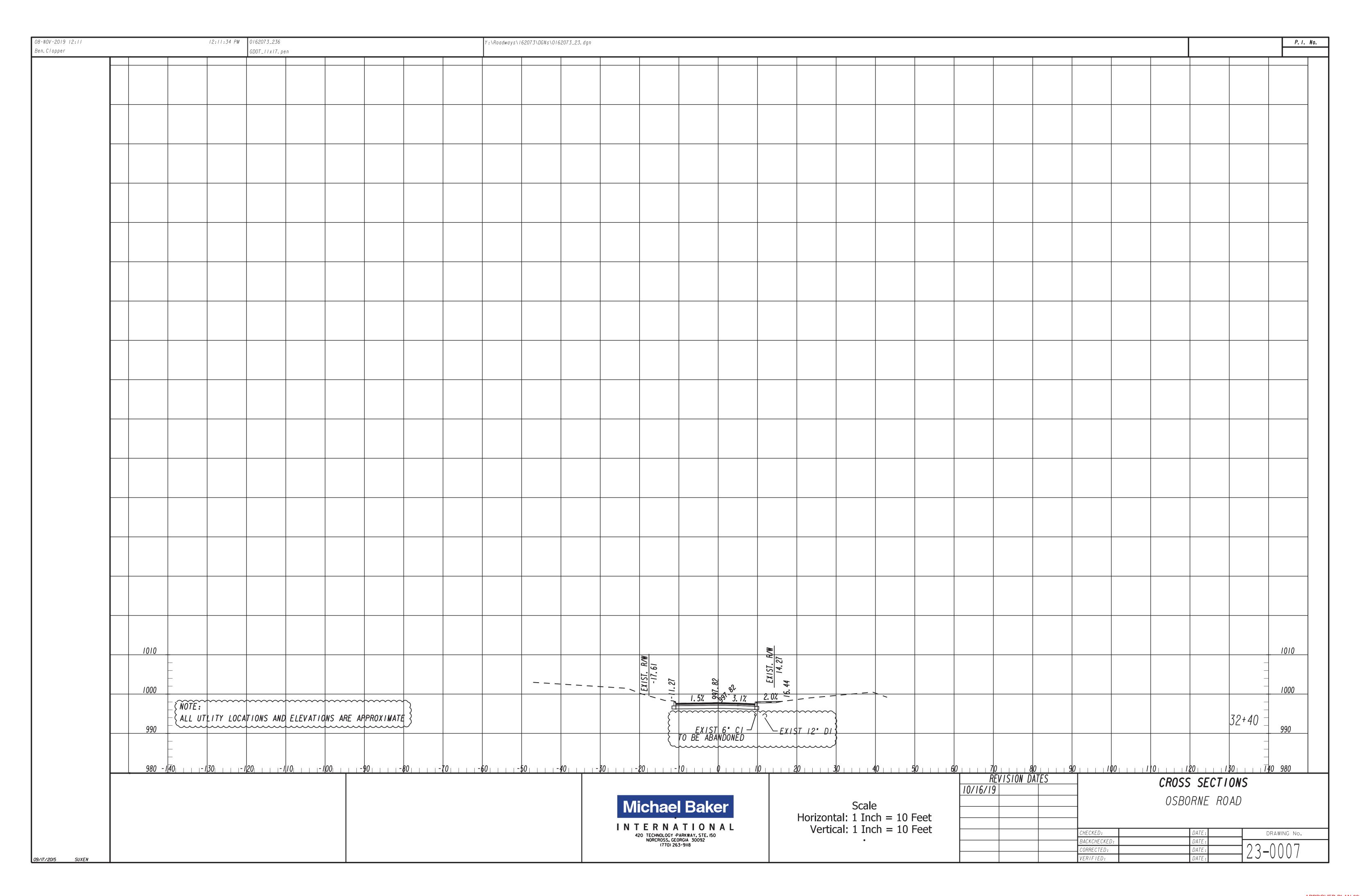


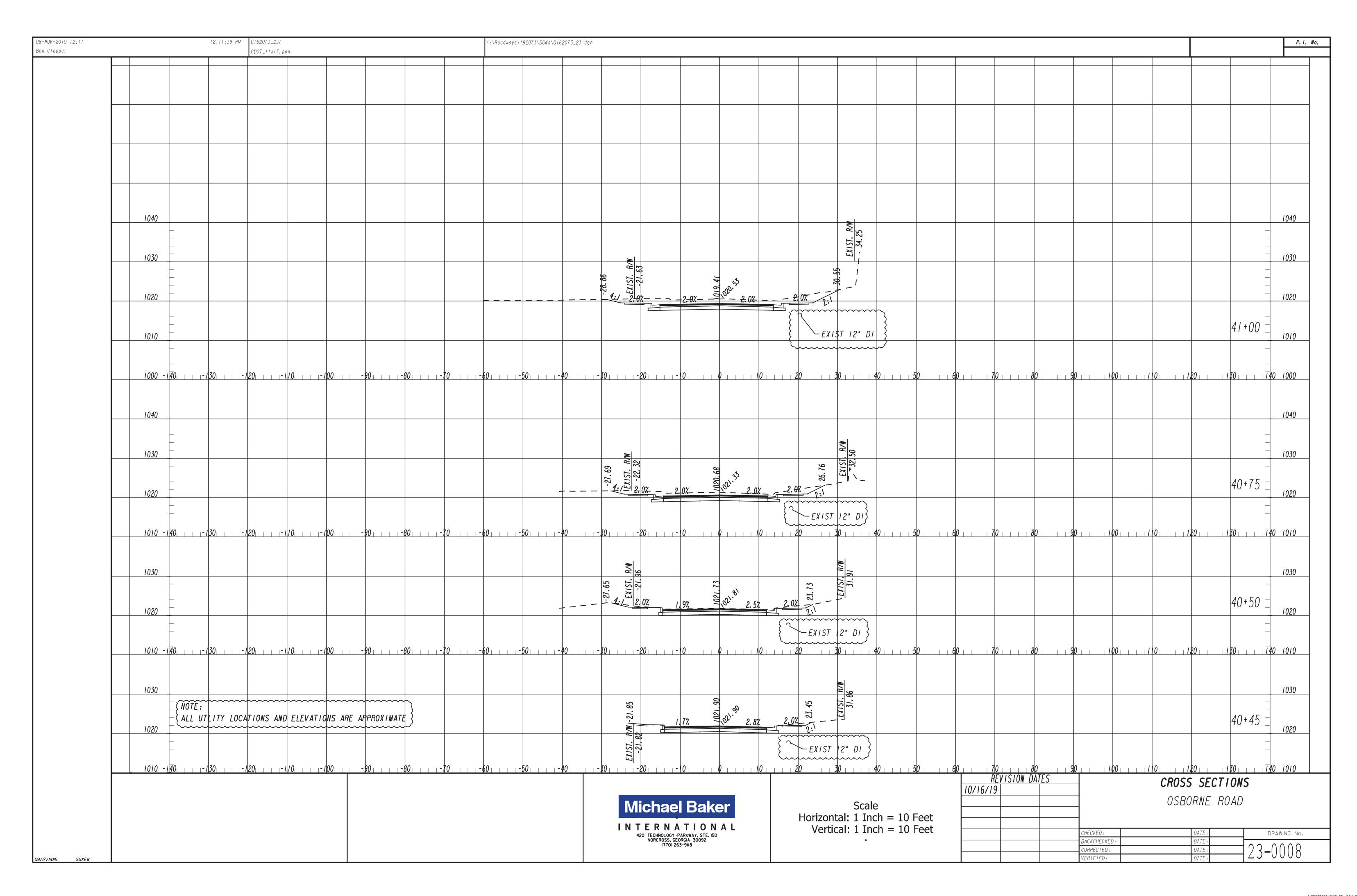


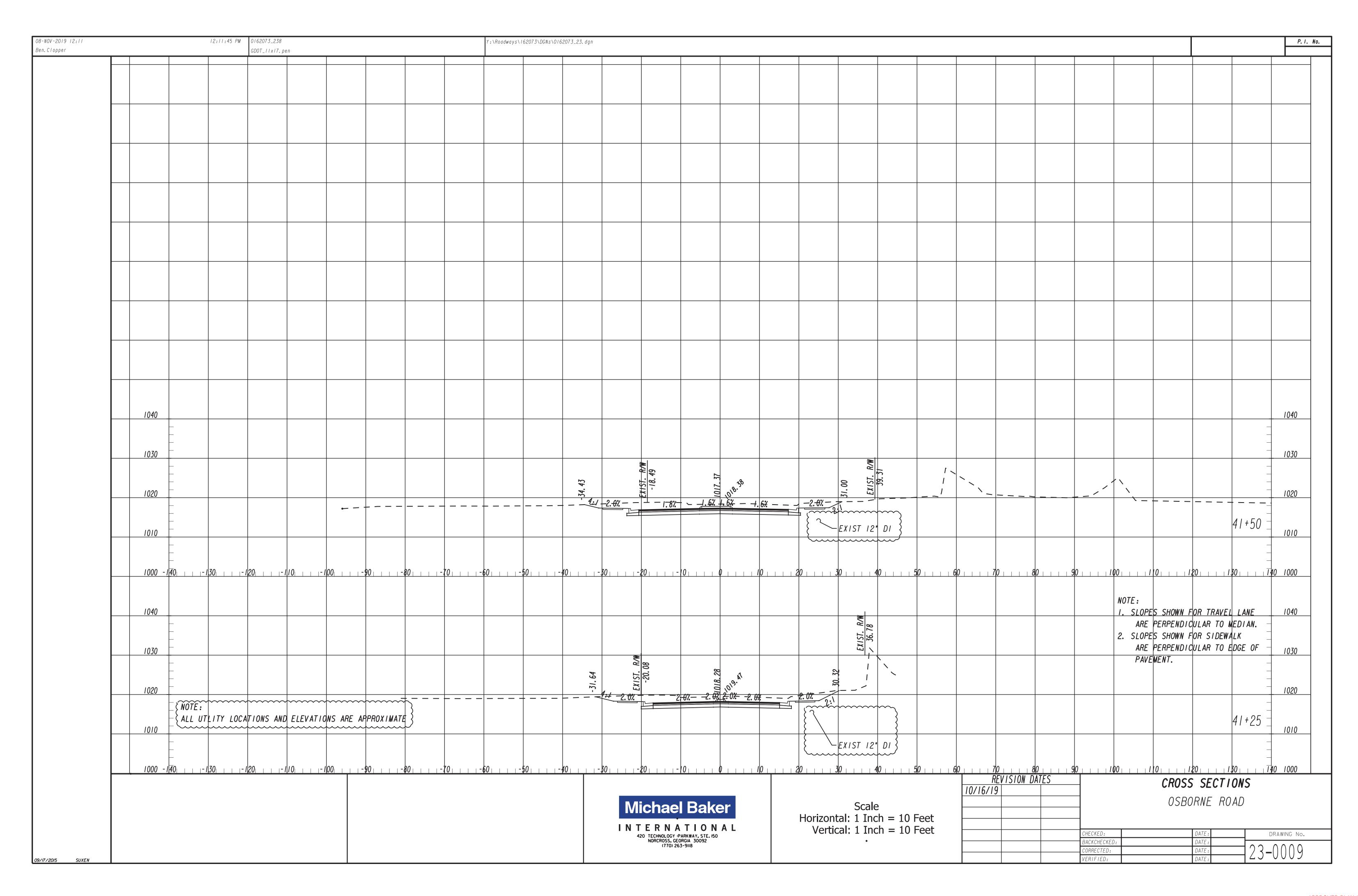


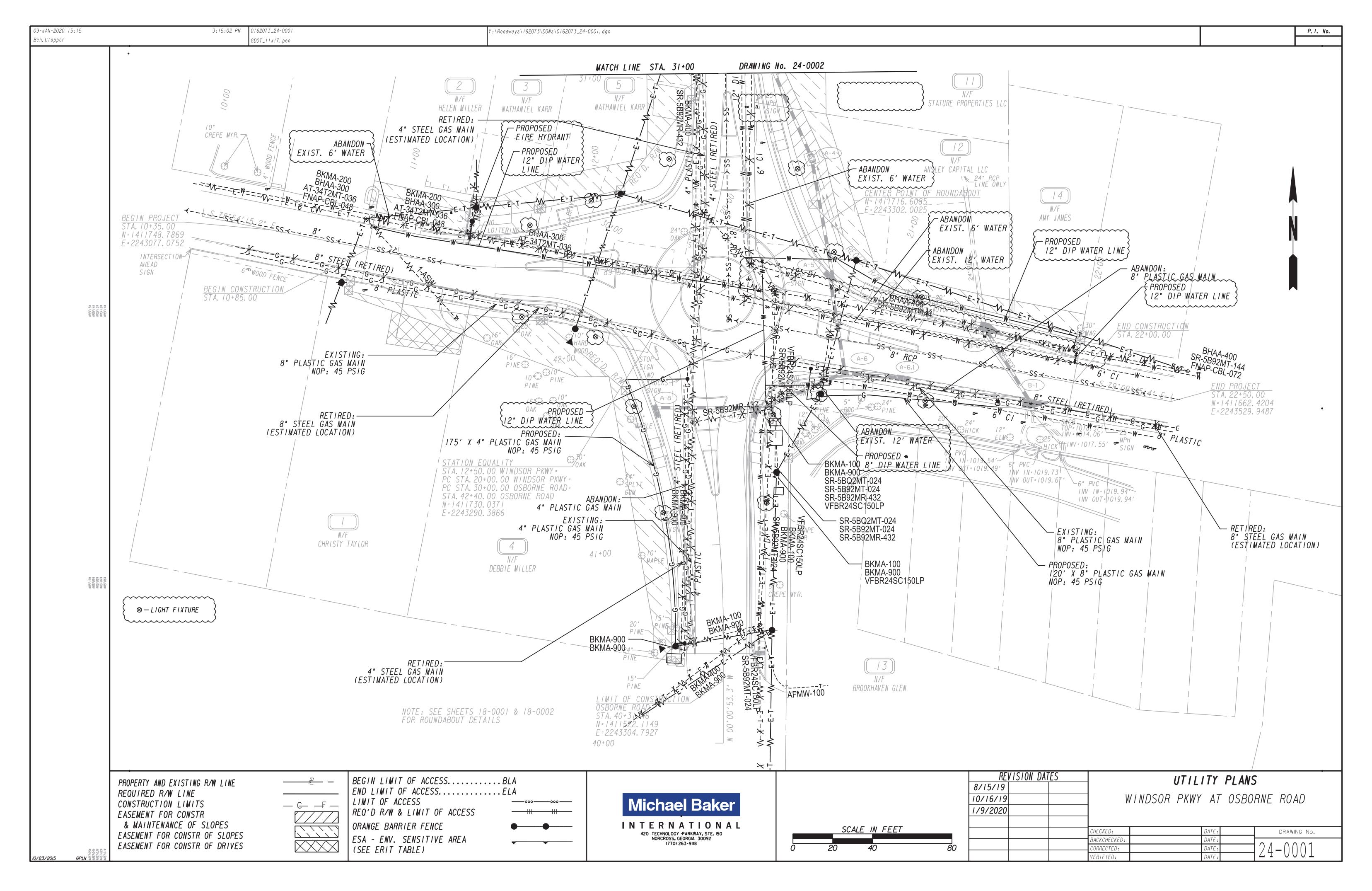


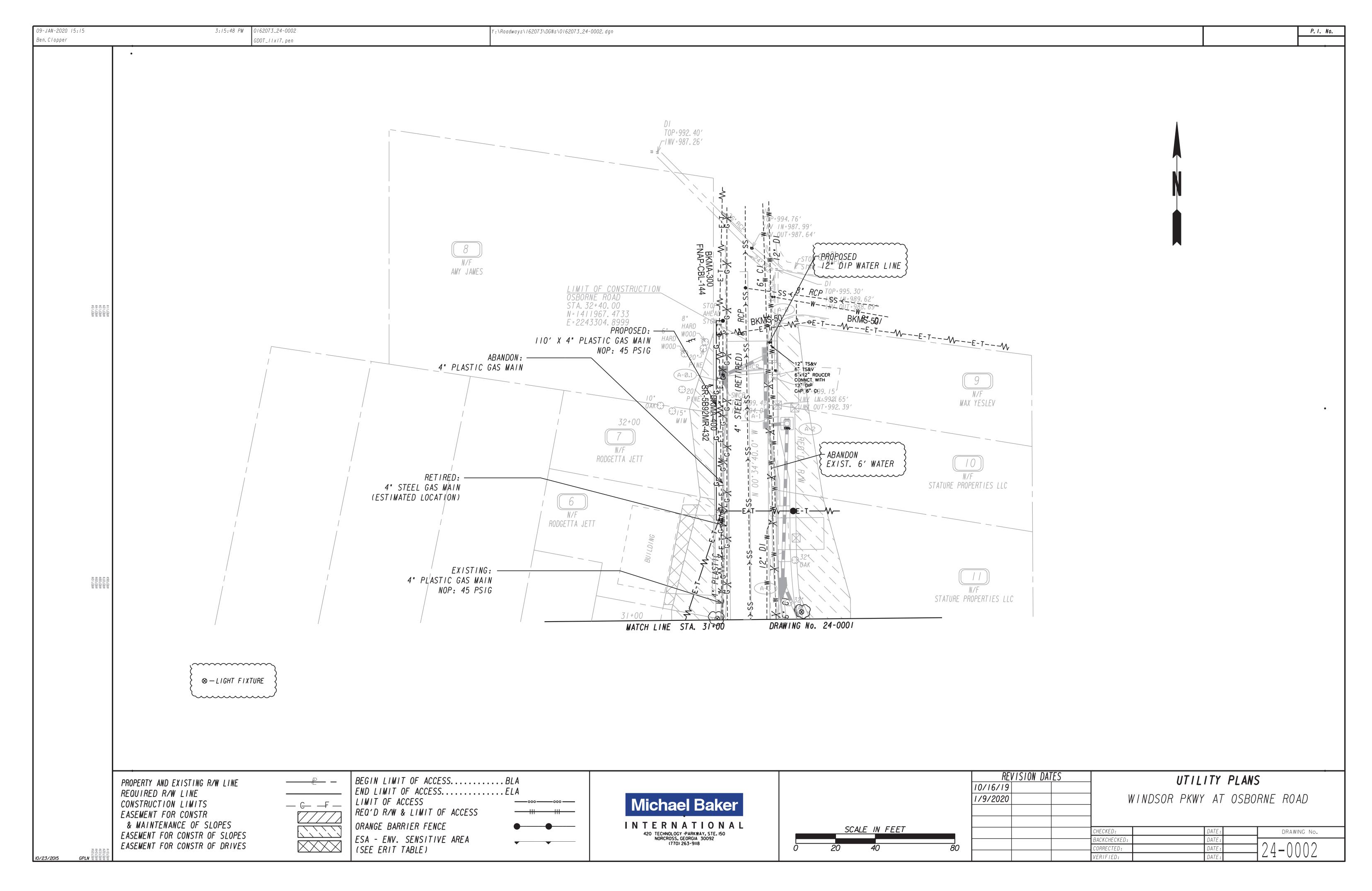


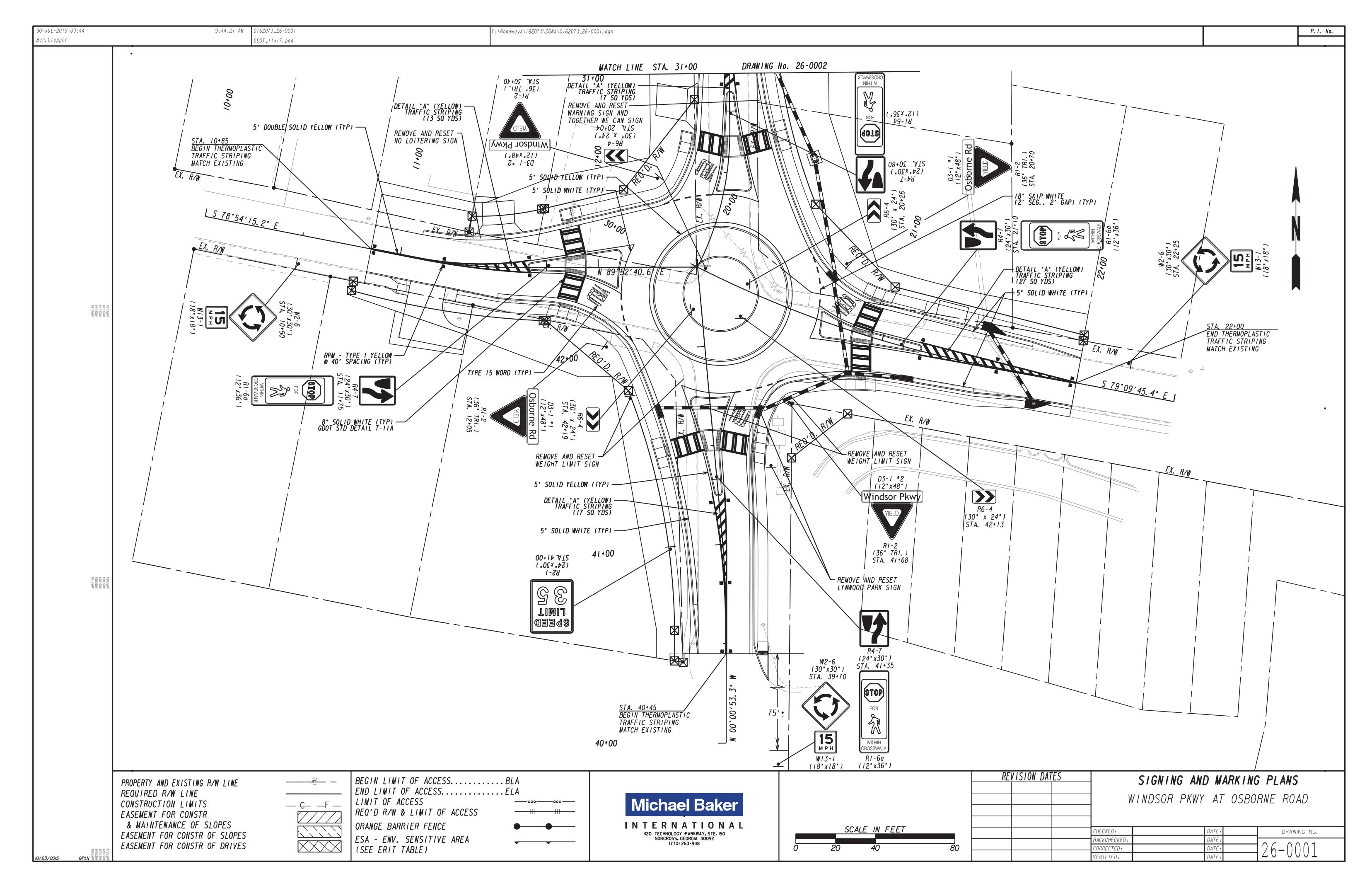


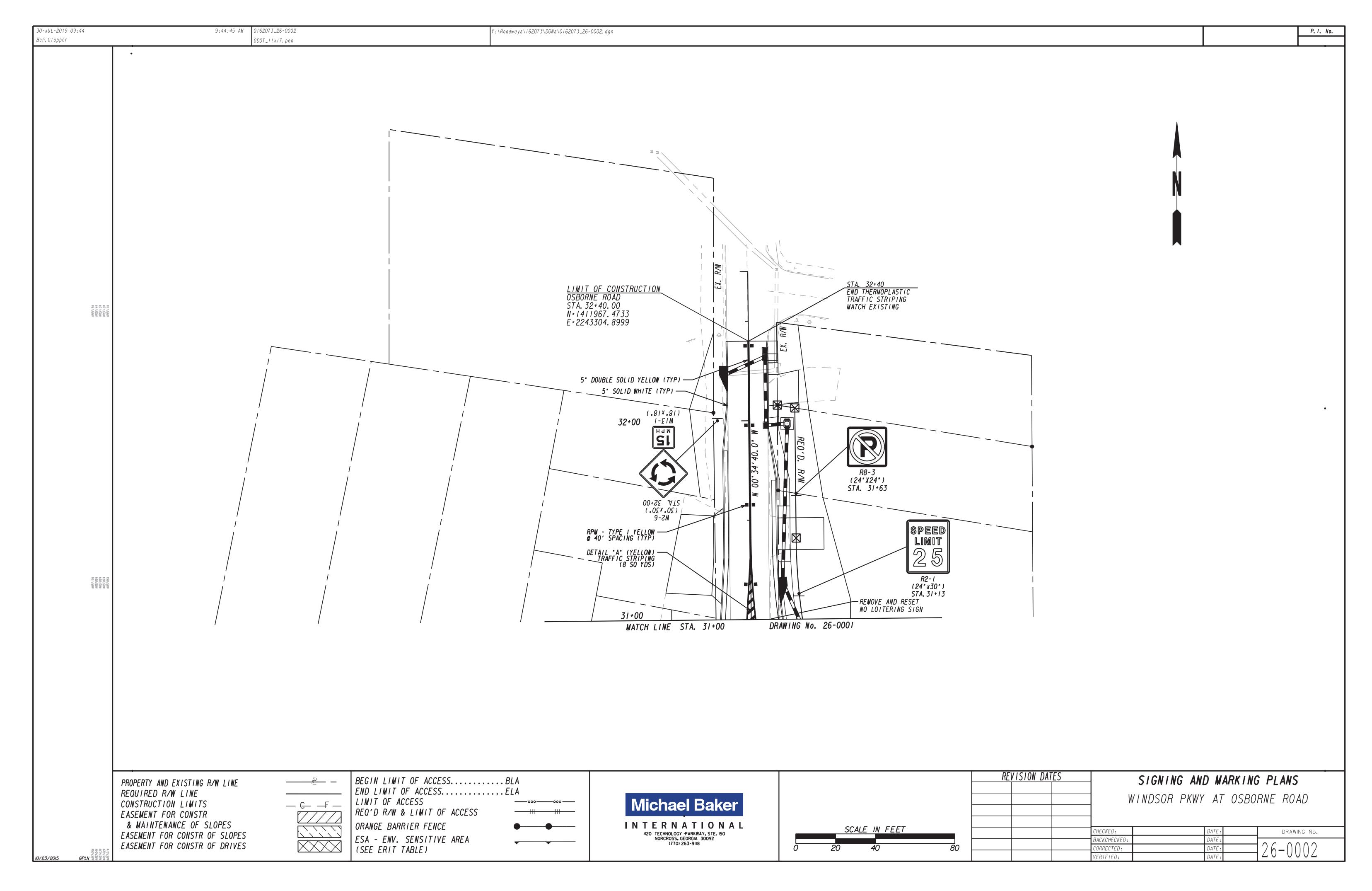


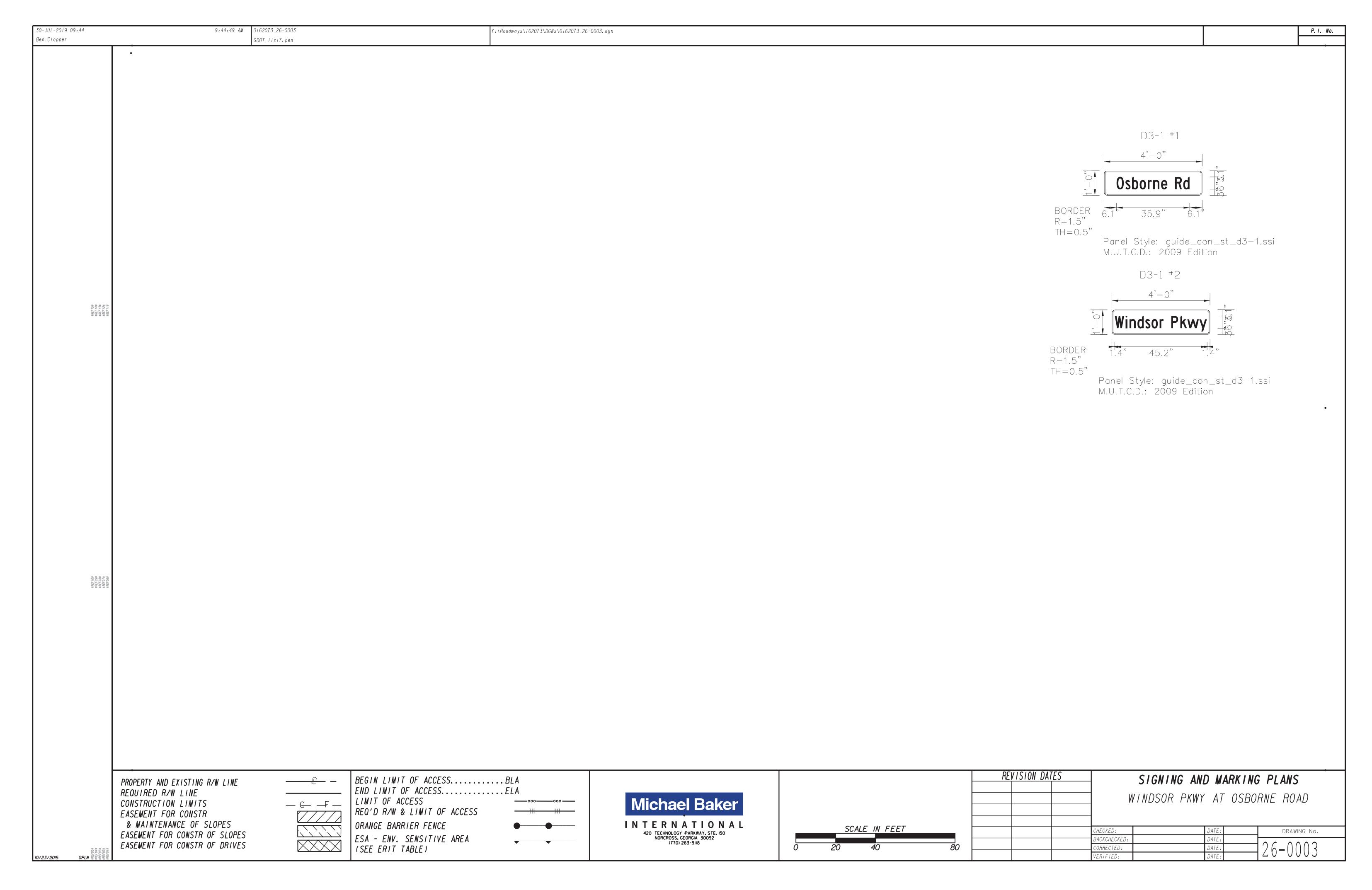


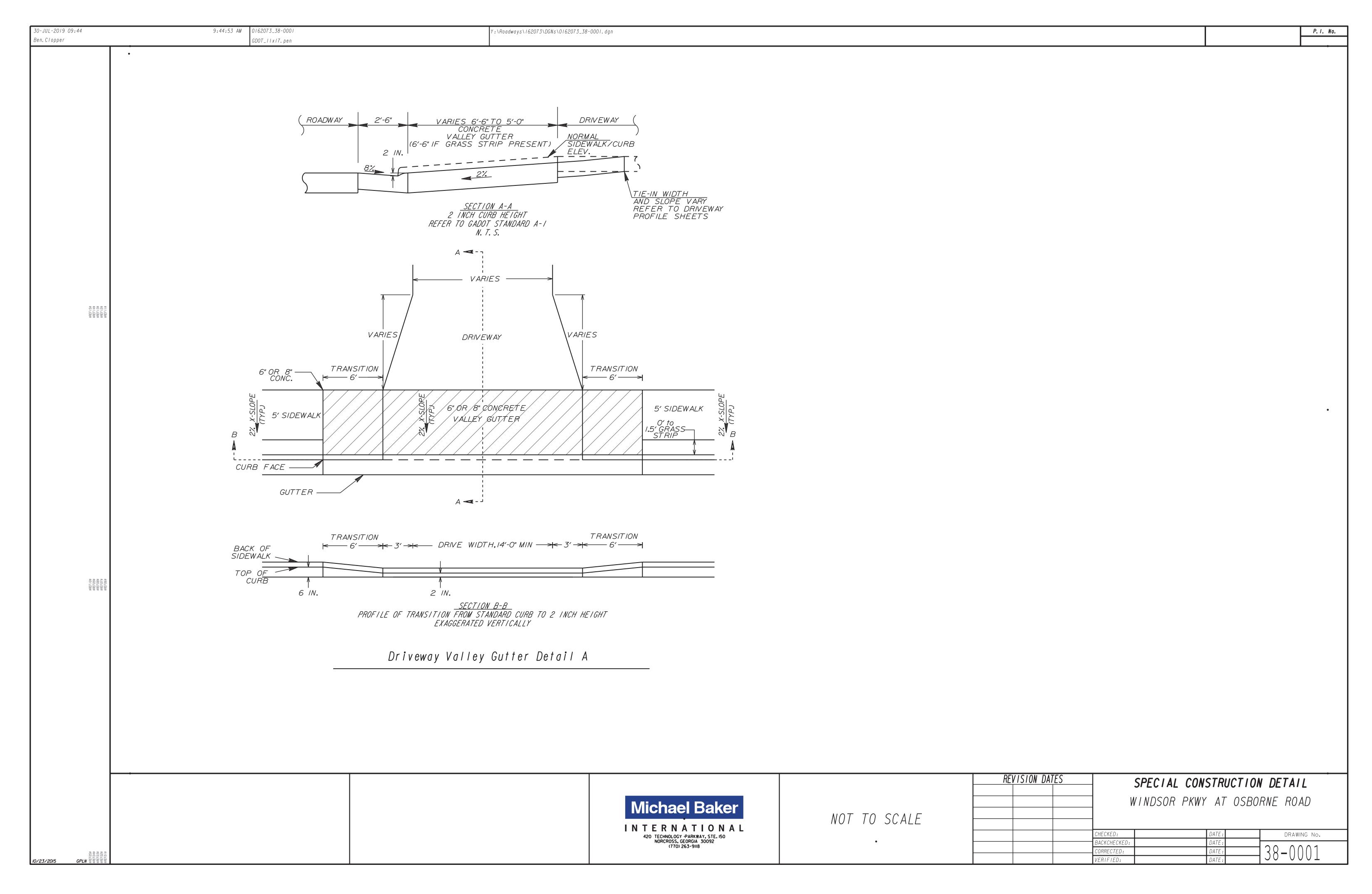


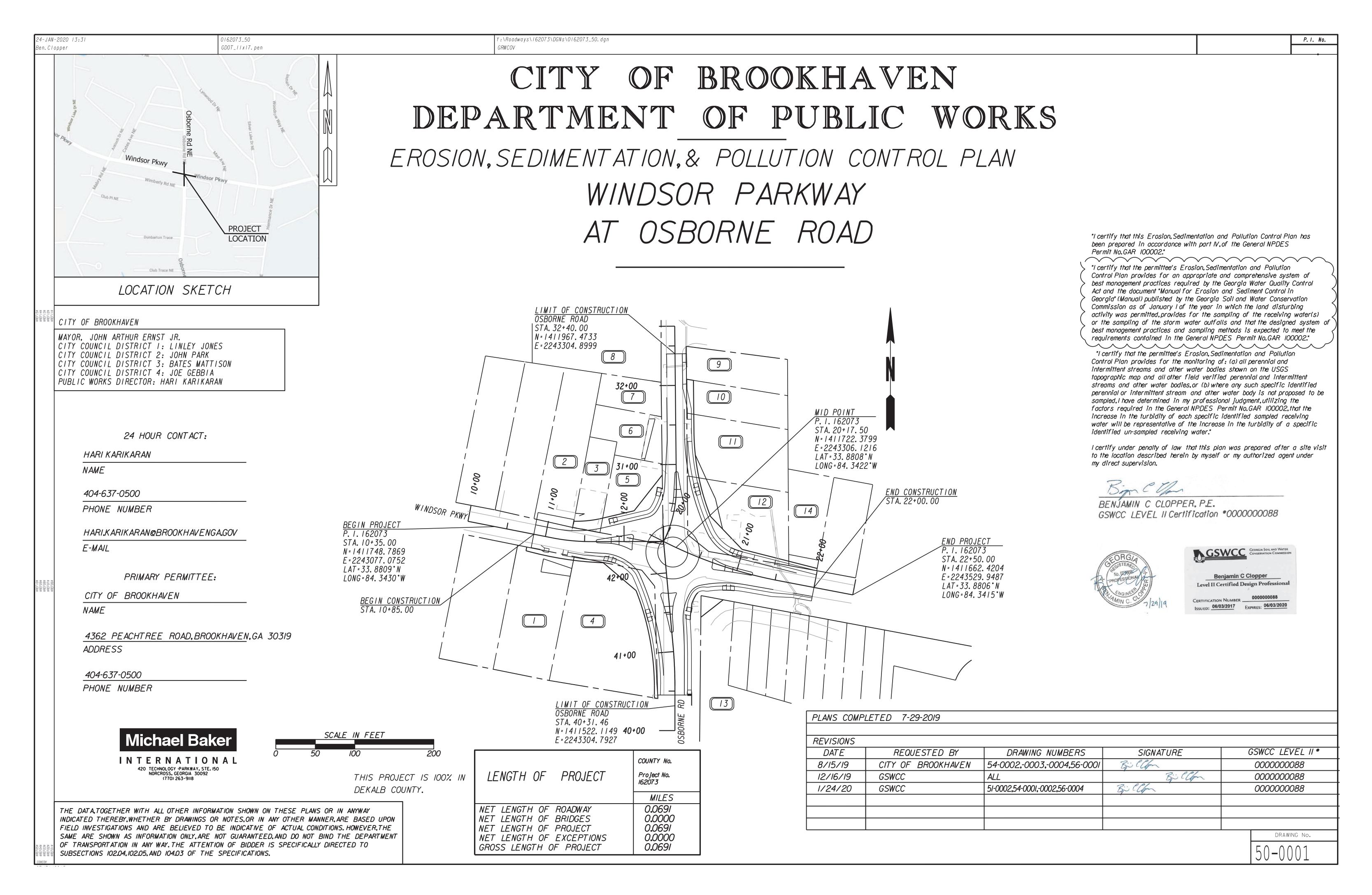












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	•			•	}		
	•		Georgia Soil and Water Conservation Commission SION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	•	3		
	•	SWCD:	INFRASTRUCTURE CONSTRUCTION PROJECTS DeKalb County SWCD	•	5		
	•	Project Name: Winds City/County: E	AND CONTRACTOR TO THE PROPERTY OF THE PROPERTY	wy at Osborne Rd 9/2019)		
		•		•	2		
	Plan Include: Page # Y/N	TO BE SHOWN ON ES& PC PLAN •	Plan Included Page # Y/N	TO BE SHOWN ON ES&PC PLAN •	<		
	• 51-0001 Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission of the year in which the land-disturbing activity was permitted.	,	Description and chart or timeline of the intended sequence of major activities which disturb so the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, ex			
	• 50-0001 Y	(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) 2 Level II certification number issued by the Commission, signature and seal of the certified design professions		activities, temporary and final stabilization). Provide complete requirements of inspections and record keeping by the primary permittee.	·		
		(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not	tbe reviewed) 51-0004 Y 31	Provide complete requirements of sampling frequency and reporting of sampling results.*)		
	50-0001 Y 50-0001 Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollui 4 Provide the name, address, email address, and phone number of primary permittee.	51-0004 Y 32	Provide complete details for retention of records as per Part IV.F. of the permit*	2		
	• 53-0001 Y	5 Note total and disturbed acreage of the project or phase under construction.		Description of analytical methods to be used to collect and analyze the samples from each local Appendix B rationale for NTU values at all outfall sampling points where applicable.*	cation.*		
	• 50-0001 Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Long decimal degrees.	gitude in 51-0004 Y 35	Delineate all sampling locations, perennial and intermittent streams and other water bodies in)		
	50-0001 Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the	no rovinione	discharged also provide a summary chart of the justification and analysis for the representation. A description of appropriate controls and measures that will be implemented at the construction.)		
00 00 00 00 00	51-0002 Y	8 Description of the nature of construction activity.		sediment storage requirements and perimeter control BMPs, (2) intermediate grading and di BMPs. For construction sites where there will be no mass grading and the initial perimeter of	rainage BMPs, and (3) final		
SREFIE SREFIE SREFIE	• 50-0001 Y 55-0001 Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if n 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, resid	necessaly.	intermediate grading and drainage BMPs, and final BMPs are the same, the plan may comb			
	•	wetlands, marshlands, etc. which may be affected.		phase.* Graphic scale and North arrow.	{		
	• 50-0001 Y	11 Design professional's certification statement and signature that the site was visited prior to development of the Plan as stated on Part IV page 21 of the permit.	55-0001 Y 38	Existing and proposed contour lines with contour lines drawn at an interval in accordance w	rith the following:		
	50-0001 Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an a and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 2		Proposed Contours 1": 400' Centerline Profile Use of alternative BMPs whose performance has been documented to be equivalent to or so	uperior to conventional BMPs		
	• 50-0001 Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for repr	resentative	as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and V Commission). Please refer to the Alternative BMP Guidance Document found at www.gasw	Nater Conservation		
	51-0005 Y	sampling as stated on Part IV.D.6.c.(3) page 37 of permit as applicable.* 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the ins	stallation of the N/A N/A 40	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A)		•
		initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after insta in accordance with Part IV.A.5. page 26 of the permit.*	laliation.	Erosion & Sediment Control in Georgia 2016 Edition.* Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters a	and any additional buffers		
	51-0003 Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undistu	turbed stream	required by the Local Issuing Authority. Clearly note and delineate all areas of impact.)		
	•	buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."		Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.	ect site.		
	• 51-0003 Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.	55-0001 Y 44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical she	ets.		
	• 51-0002 Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on hydraulic component must be certified by the design professional."*	53-0001 Y 45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction completed.	uction activities are		
	• 51-0002 Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as au section 404 permit."*	51-0003 Y 40	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharge points	arges without erosion.		
	• 51-0002 Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of end	resion and	Identify/Delineate all storm water discharge points. Soil series for the project site and their delineation.			
	• 51-0002 Y	sediment control measures and practices prior to land disturbing activities." 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of	f the approved	The limits of disturbance for each phase of construction.	}		
		Plan does not provide for effective erosion control, additional erosion and sediment control measures shall l to control or treat the sediment source."	be imperience	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporal retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage	_		
REF 108 RRF 7098 RRF 6708 RRF 6708	• 51-0002 Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stab	bilized with mulch	volume must be in place prior to and during all land disturbance activities until final stabilization achieved. A written justfication explaining the decision to use equivalent controls when a set	\		
	• 51-0003 Y	or temporary seeding." 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear		must be included in the plan for each common drainage location in which a sediment basin is justification as to why 67 cubic yards of storage is not attainable must also be given. Workship			
	•	of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with P Permit Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site wh		included for structural BMPs and all calculations used by the design professional to obtain the when using equivalent controls. When discharging from sediment basins and impoundments	•		
	• N/A N/A	to the Impaired Stream Segment* 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified	Lin itsm 22	utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structure the surface are not feasable, a written justification explaining this decision must be included in			
	·	above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific condition	ons or 54 Series Y 50	Location of Best Management Practices that are consistent with and no less stringent than the	e Manual for Erosion and		
	• 51-0002 Y	requirements included in the TMDL Implementation Plan.* 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washdown		Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with Provide detailed drawings for all structural practices. Specifications must, at a minimum, mee			
	• 51-0002 Y	at the construction site is prohibited.* 25 Provide BMPs for the remediation of all petroleum spills and leaks.		the Manual for Erosion and Sediment Control in Georgia. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include s	species planting dates and		
	• 51-0002 Y	26 Description of the measures that will be installed during the construction process to control pollutants in storn	m water that	seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropri	/		
	• 51-0002 Y	will occur after construction operations have been completed.* 27 Description of practices to provide cover for building materials and building products on site.*		will take place and for the appropriate geographic region of Georgia.	5		
	• 51-0002 Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges.*		using this checklist for a project that is less than 1 acre and not part of a common development t within 200 ft of a perennial stream the * checklist items would be N/A.	ective January 1, 2019		
		•		•			NS COMPLETE 7/29/2019 }
					REVISION DATES		GENERAL NOTES
	24 HOUR CONTACT		Michael Baker		12/16/19	-	
	HARI KARIKARAN 404-637-0500		INTERNATIONAL 420 TECHNOLOGY «PARKWAY, STE. 150 NORCROSS, GEORGIA 30092			- WINDSOR PKW	NY AT OSBORNE ROAD
	HARI. KARIKARAN@BROOKHAVENGA. GOV		(770) 263-9118	•		CHECKED: BACKCHECKED:	DATE: DRAWING No.
NEFO38 NEFO38 NEFO38 NEFO38 NEFO38 NEFO38 NEFO38			ROADWAY DESIGN			CORRECTED: VERIFIED:	DATE: 51-0001

ROADWAY DESIGN

HARI. KARIKARAN@BROOKHAVENGA. GOV

DRAWING No.

HECKED:

BACKCHECKED CORRECTED:

SAMPLING GENERAL NOTES

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

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

Note	The Total si	te area is 1.3	3 acres.								Represe	entative	Samplin	g Schei	me		
	SAMPLING INFORMATION .										OUTFA	OUTFALL CHARACTERISTICS					
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi ²)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	NII Incress e	Location	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins		
1	32+34, 8.3' RT	Nancy Creek	All	Outfall	19.3	0.92	Warm	• 200	N/A	Drop Inlet	Road Widening	0.92	0.05	>5	2		

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

REPORTING

. The applicable permittees are required to submit the sampling results to the EPD by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with the permit. Sampling results shall be in •a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any •stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in the permit must be reported in a similar manner to the EPD. Sampling reports must be •submitted to EPD using the electronic submittal service provided by EPD. Sampling *reports must be submitted to EPD until such time as a NOT is submitted in accordance °with Part VI.

- > °2. All sampling reports shall include the following information:
- _a. The rainfall amount, date, exact place and time of sampling or measurements; b. The name(s) of the certified personnel who performed the sampling and
- •measurements;
- The date(s) analyses were performed; •d. The time(s) analyses were initiated:
- e. The name(s) of the certified personnel who performed the analyses;
- •f. References and written procedures, when available, for the analytical techniques or methods used: *g. The results of such analyses, including the bench sheets, instrument readouts,
- computer disks or tapes, etc., used to determine these results; h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.
- •3. All written correspondence required by the permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to •the schedule in Appendix A of the permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a *designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

> WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

SAMPLE TYPE

24 HOUR CONTACT

HARI. KARIKARAN@BROOKHAVENGA. GOV

HARI KARIKARAN

404-637-0500

•All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures. *established by 40 CFR Part 136 (unless other test procedures have been approved), the > guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA *833-B-92-001" and guidance documents that may be prepared by the EPD. > (I). Sample containers should be labeled prior to collecting the samples.

- > 12). Samples should be well mixed before transferring to a secondary container.
- '•(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- (4). Manual, automatic or rising stage sampling may be utilized. Samples required 'by the permit should be analyzed immediately, but in no case later than 48 hours safter collection. However, samples from automatic samplers must be collected no *later than the next business day after their accumulation, unless flow through > automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize > manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES (CONT.)

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

SAMPLING POINTS

and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water *bodies, or all outfalls into such streams and other water bodies, or a combination thereof. However, provided for in and in accordance with Part IV.D.6.c.(2). of the permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outfalls, or a combination thereof. Samples taken for the purpose of compliance with the permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the stormwater outfalls using the following minimum guidelines:

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

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

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

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

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

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

(I). For construction activities the primary permittee must sample all perennial

> WATER QUALITY INSPECTING AND SAMPLING PROCEDURES (CONT.)

'°(q). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures. 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or . I and scaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for > the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be raccomplished by stabilizing the disturbed land for its agricultural or silvicultural use.

(h). All sampling pursuant to the permit must be done in such a way '(including generally accepted sampling methods, locations, timing. and •frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts •III.D.3. or III.D.4., whichever is applicable.

SAMPLING FREQUENCY

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

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

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

, (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined •in the permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling ·location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in the permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location *selected as the representative sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site > for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or runtil post-storm event inspections determine that BMPs are properly designed, installed and maintained;

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

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

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

PLANS COMPLETE 7/29/2019

Michael Baker INTERNATIONAL

420 TECHNOLOGY PARKWAY, STE. 150

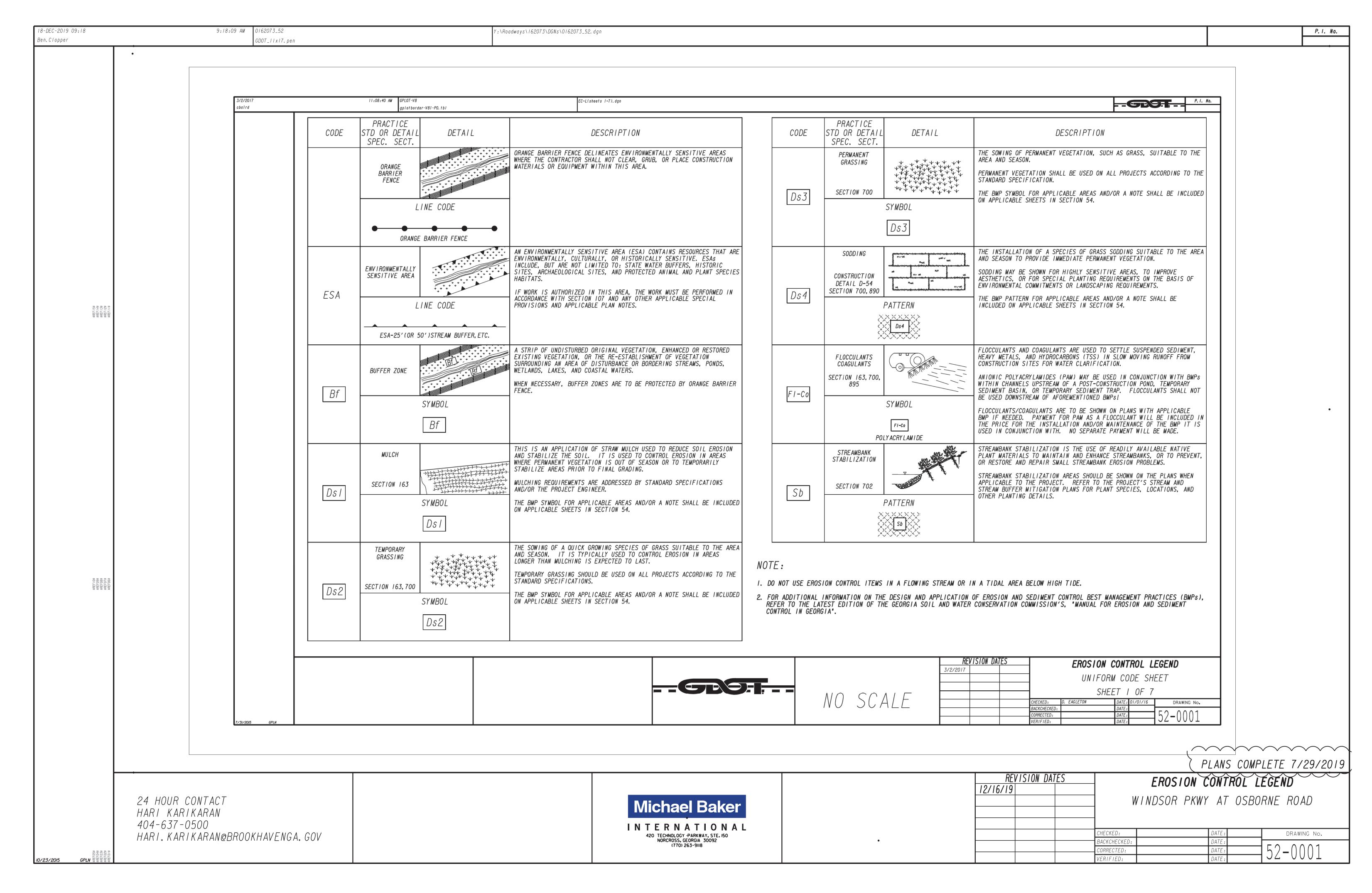
NORCROSS, GEORGIA 30092

ROADWAY DESIGN

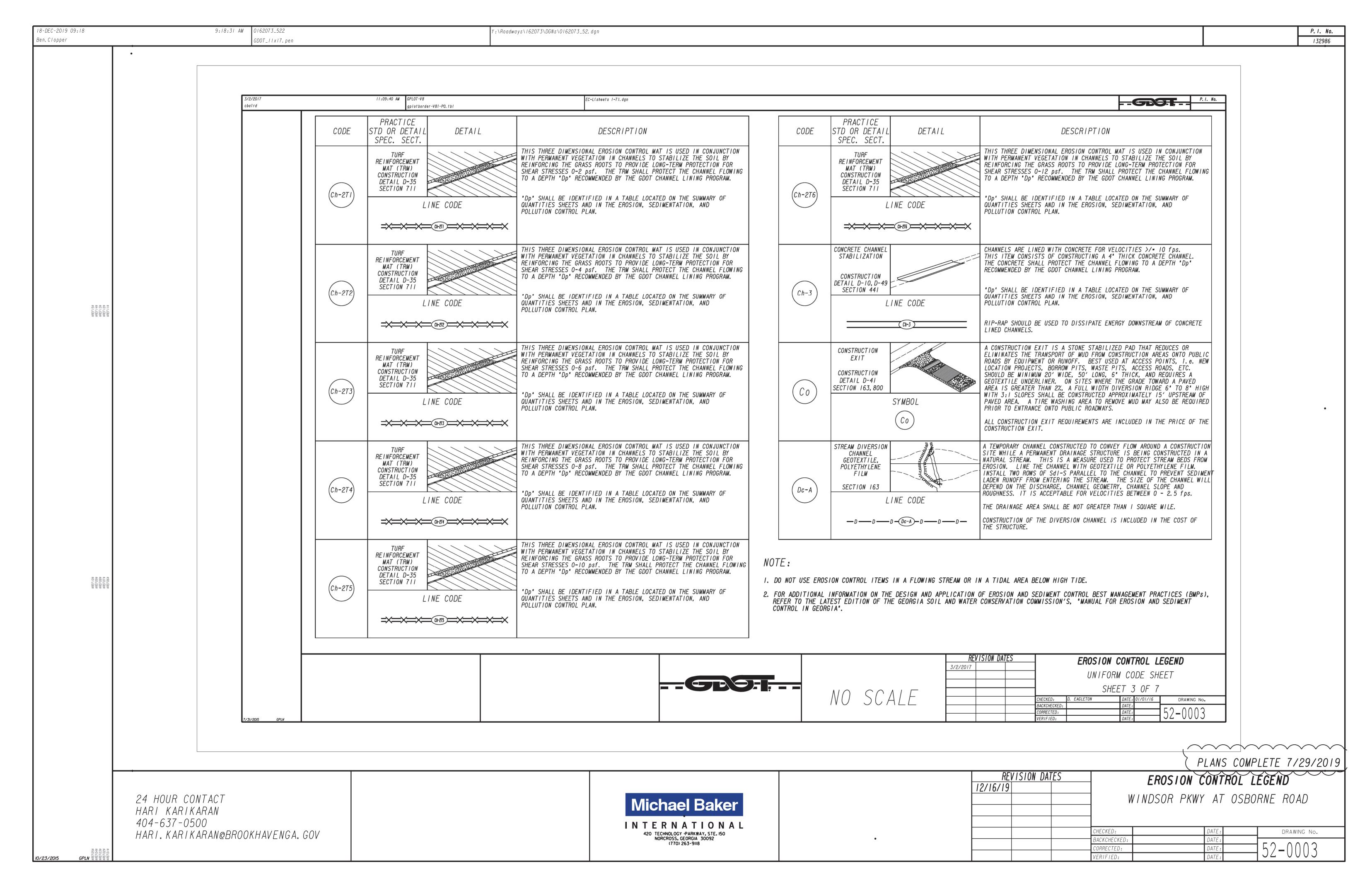
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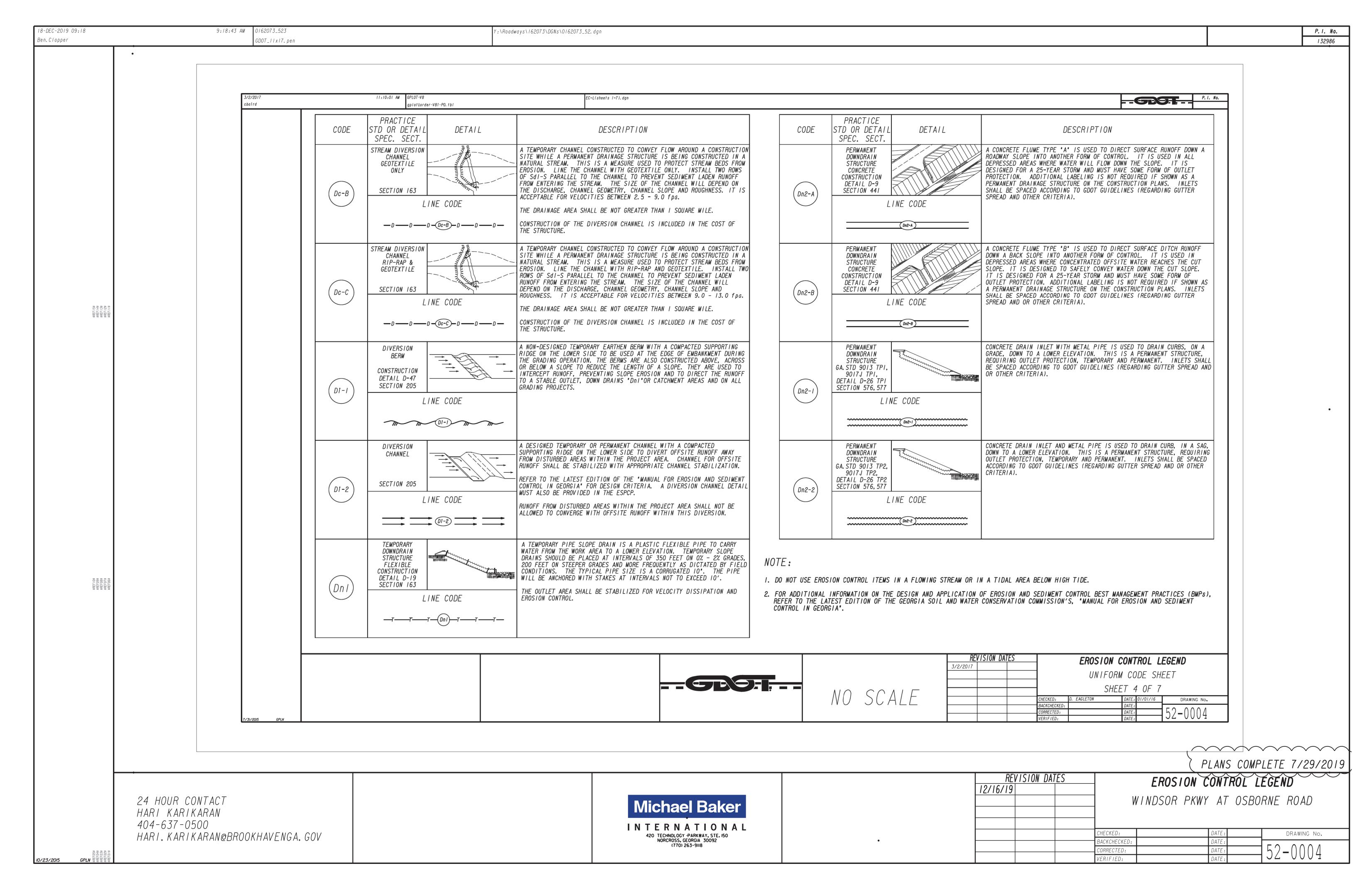
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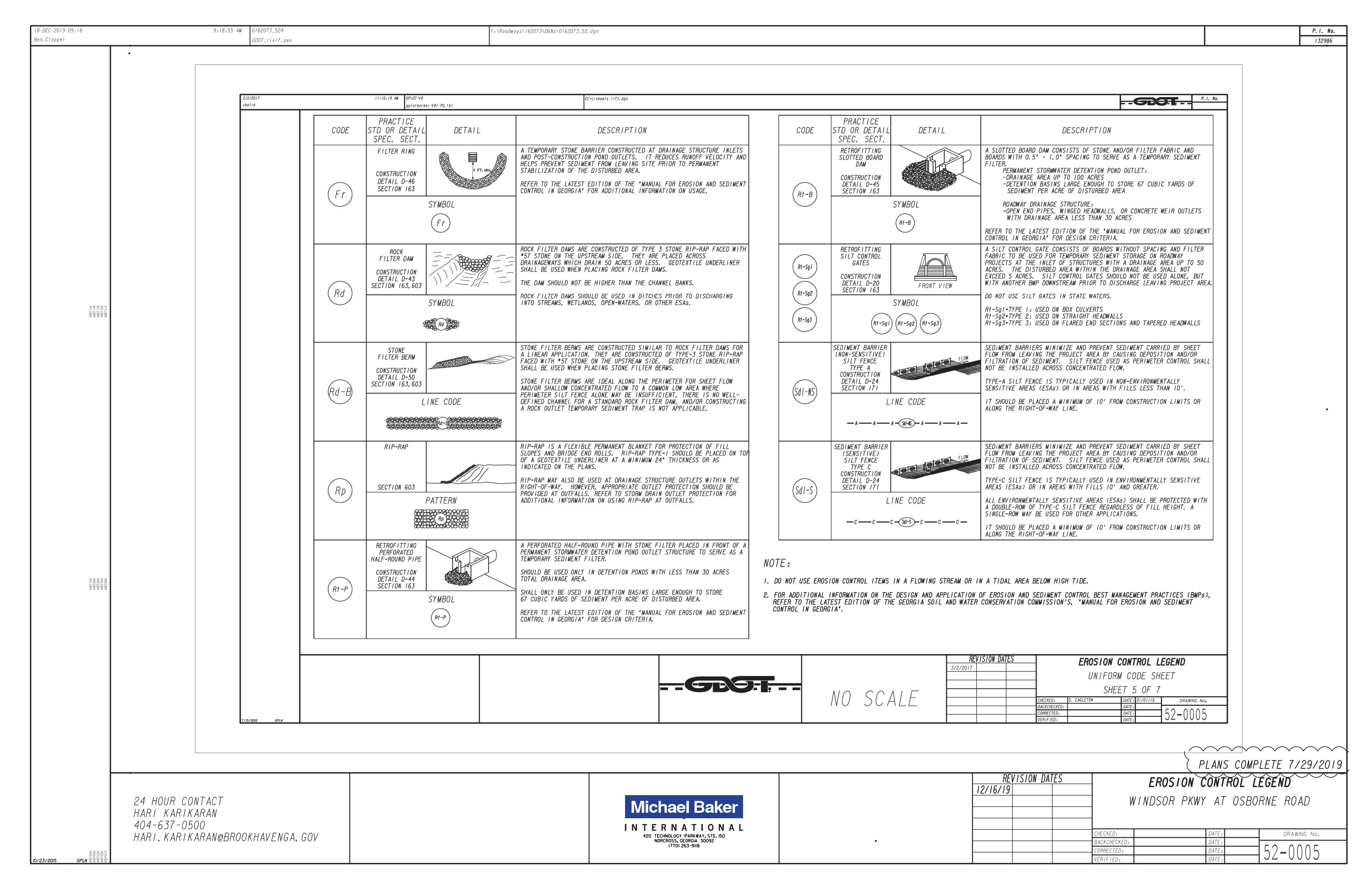
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\$REF 15\$ \$REF 15\$ \$REF 15\$ \$REF 15\$ \$REF 15\$	APPENDIX 1 PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF ITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.	The four items chosen must be appropriate for the site conditions.	During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters classified as waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such	buffers that are increased in width.	Increase all temporary sediment basins and retrotited storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.	A large sign (minimum 4 feet x 8 feet) must posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) the construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s) and (4) the permittee-hosted website where the Plan can be viewed	must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.	Use flocculants or coagulant and/or mulch to stabilize all areas left disturbed for more than seven (7) calendar days in accordance with Section III.D.1. of the NPDES Permit.	Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permits.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).	Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the plan	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned is less. All calculations must be included on the plan.	Dirt II" techniques	sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation) Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil	construction site.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.	. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event	Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.	Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site	perimeter wherever storm water (including sheet llow) may be discharged. Conduct soil tests to identify and to implement site-specific fertilizer needs.	Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar davs and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with	Section IV.D.4.a.(3).(a) – (c) of the permit. *	Apply the appropriate compost blankets (minimum deptr 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)	Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the plan.	Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Section IV.A.5. of the permit. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to propagate and drainage BMP phase and during the final BMP phase.	Install Post Construction BMPs (e.g., runoffreduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.	
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		CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION	CODE	PRACTICE STD OR DETAIL DETAIL SPEC. SECT.	DE	SCRIPTION
		Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716	PATTERN	SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECOR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS.	Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603 SYMBOL	UNDERLINER. STONE CHECK IN OUTSIDE THE CLEAR ZONE. OTHER APPROPRIATE CHECK DOWNS ARE RECEMPORARY VELOCITY CONTROL PROPERLY STABILIZED AND IN	TRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE DAMS ARE PREFERRED IN ROADWAY DITCHES CONSIDERATION SHOULD BE GIVEN TO USING AMS AND/OR BMPs WITHIN THE CLEAR ZONE. COMMENDED IN CONCRETE LINED CHANNELS FOR L ONLY. ENSURE DISCHARGE POINT IS NCLUDE APPROPRIATE BMPs FOR SEDIMENT DWNSTREAM OF CONCRETE LINED CHANNELS.
			×	Ss > > > > > > > > > > > > > > > > > > >	NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.		Cd-S		N AREA WITH FLOWS GREATER THAN 2.0-CFS OR A MINIMUM OF ONE ROCK FILTER DAM SHALL BE SCHARGE POINT.
		Тас	TACKIFIERS SECTION 163, 700, 895	SYMBOL	TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) AF ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIME CONTROL IN GEORGIA" FOR CRITERIA.	Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE	TYPICALLY NOT SHOWN IN PL	MAY BE LINED WITH PERMANENT VEGETATION 5.0 fps. THIS MEASURE SHALL BE TH THE GDOT CHANNEL LINING DESIGN PROGRAM. L MEASURES MAY BE REQUIRED. ANS.
		Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171	Tac LYACRYLAMIDE SYMBOL	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASH PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENER DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DET D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZON	Ch-2RI	CHANNEL STABILIZATION RIP-RAP, TYPE I CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE	THIS ITEM CONSISTS OF LIN THICK (UNLESS SPECIFIED O UNDERLINER. THE RIP-RAP SI DEPTH "Dp" RECOMMENDED BY ADDITIONAL EROSION CONTRO	ING A CHANNEL WITH TYPE I RIP-RAP 24" THERWISE) PLACED ON TOP OF A GEOTEXTILE HALL PROTECT THE CHANNEL FLOWING TO A THE GDOT CHANNEL LINING PROGRAM. L MEASURES MAY BE REQUIRED. THE EROSION, SEDIMENTATION, AND
		Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	SYMBOL (Cd-Fs)	IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL USED AT THE DOWNSTREAM DISCHARGE POINT. A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIME CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OF WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL USED AT THE DOWNSTREAM DISCHARGE POINT.	OR	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE	THIS ITEM CONSISTS OF LIN THICK (UNLESS SPECIFIED O UNDERLINER. THE RIP-RAP SI DEPTH "Dp" RECOMMENDED BY ADDITIONAL EROSION CONTRO	ING A CHANNEL WITH TYPE 3 RIP-RAP 24" THERWISE) PLACED ON TOP OF A GEOTEXTILE HALL PROTECT THE CHANNEL FLOWING TO A THE GDOT CHANNEL LINING PROGRAM. L MEASURES MAY BE REQUIRED. IN A TABLE LOCATED ON THE SUMMARY OF THE EROSION, SEDIMENTATION, AND
		Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	SY MBO L (cd-Hb)	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WE BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPEPAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OF WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL USED AT THE DOWNSTREAM DISCHARGE POINT.	ASH I. DO NOT USE ERO	OSION CONTROL ITEMS IN A FLOWING STREAM OR INFORMATION ON THE DESIGN AND APPLICATION ATEST EDITION OF THE GEORGIA SOIL AND WATE		
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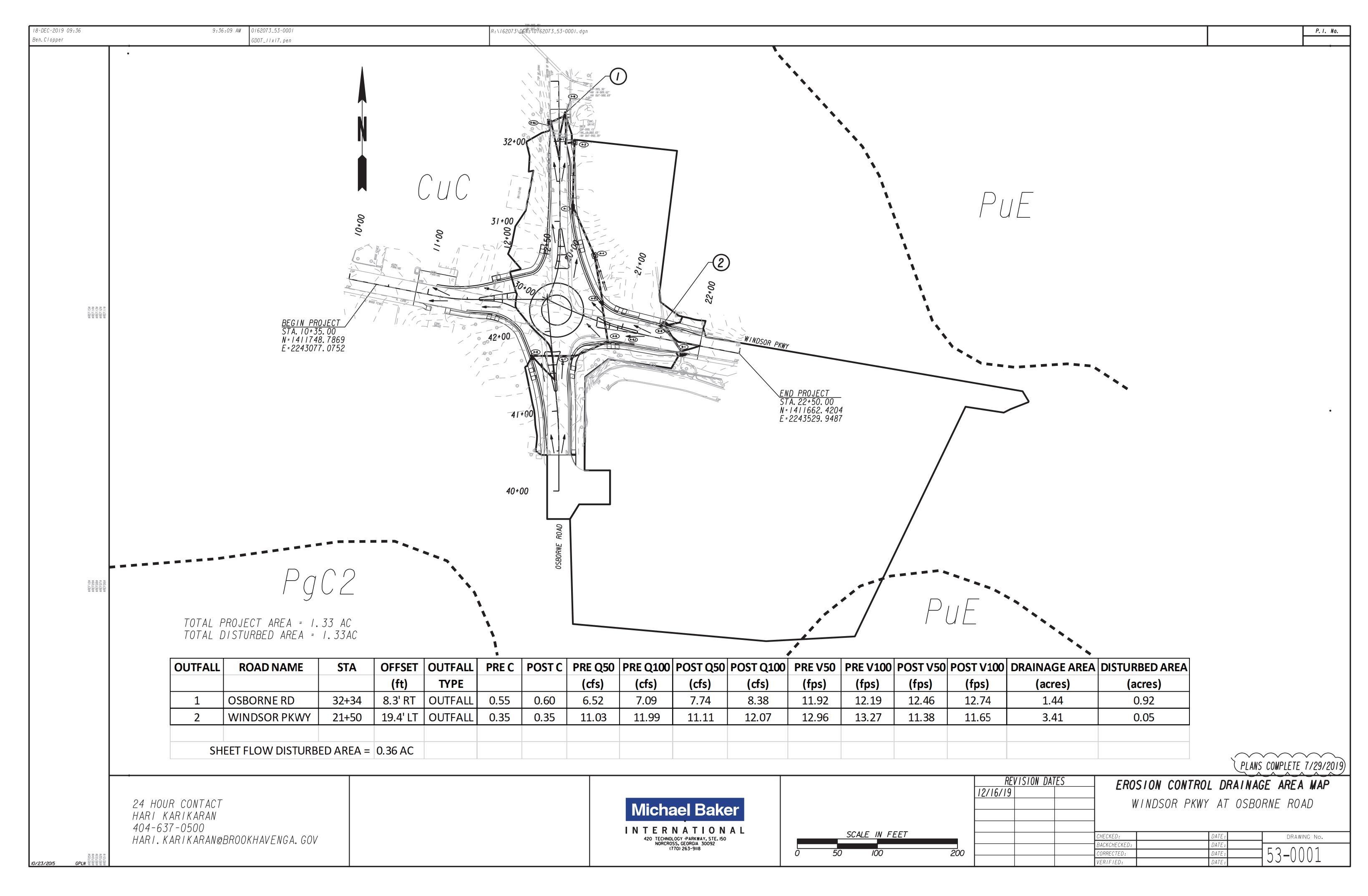


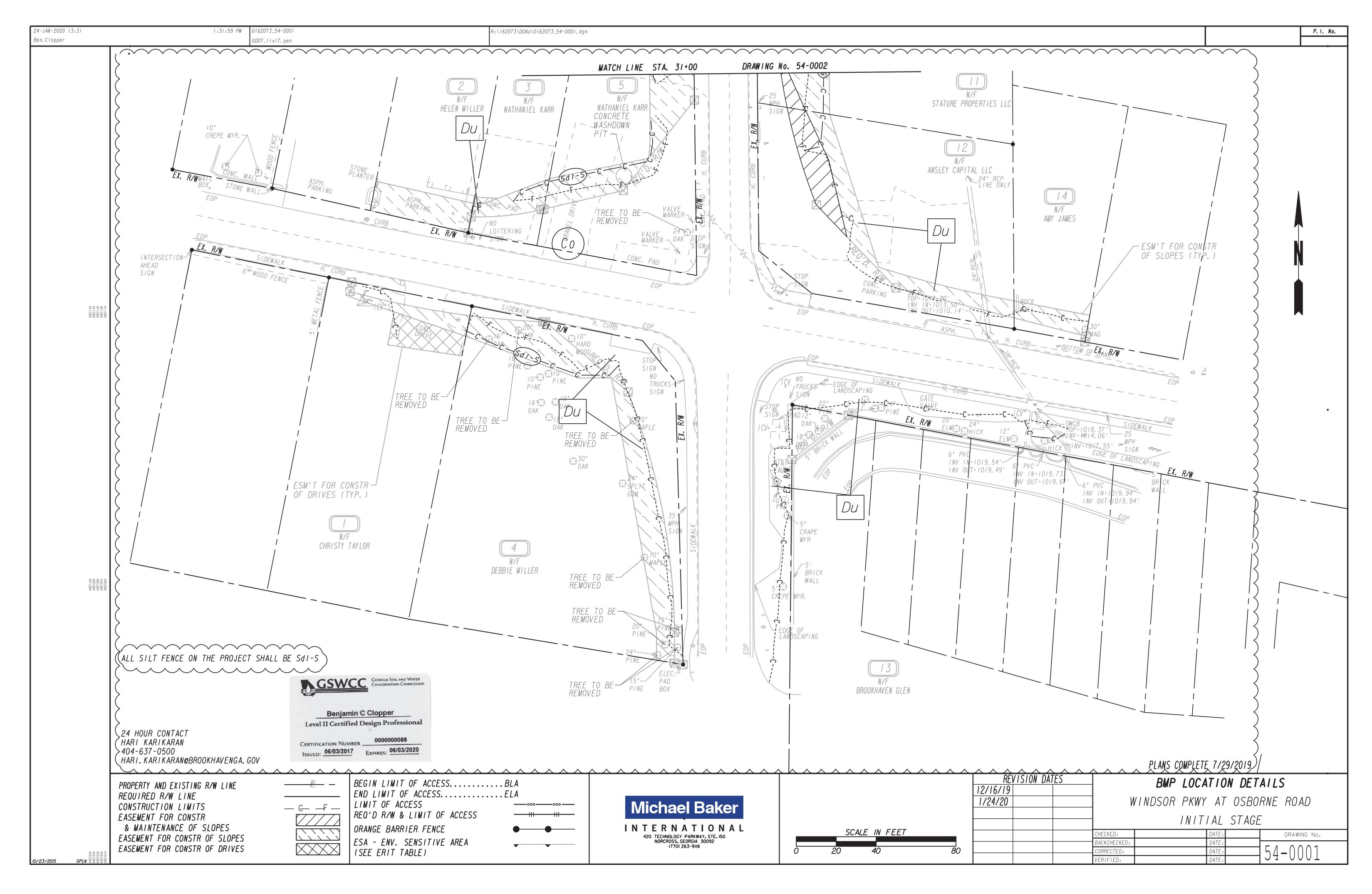


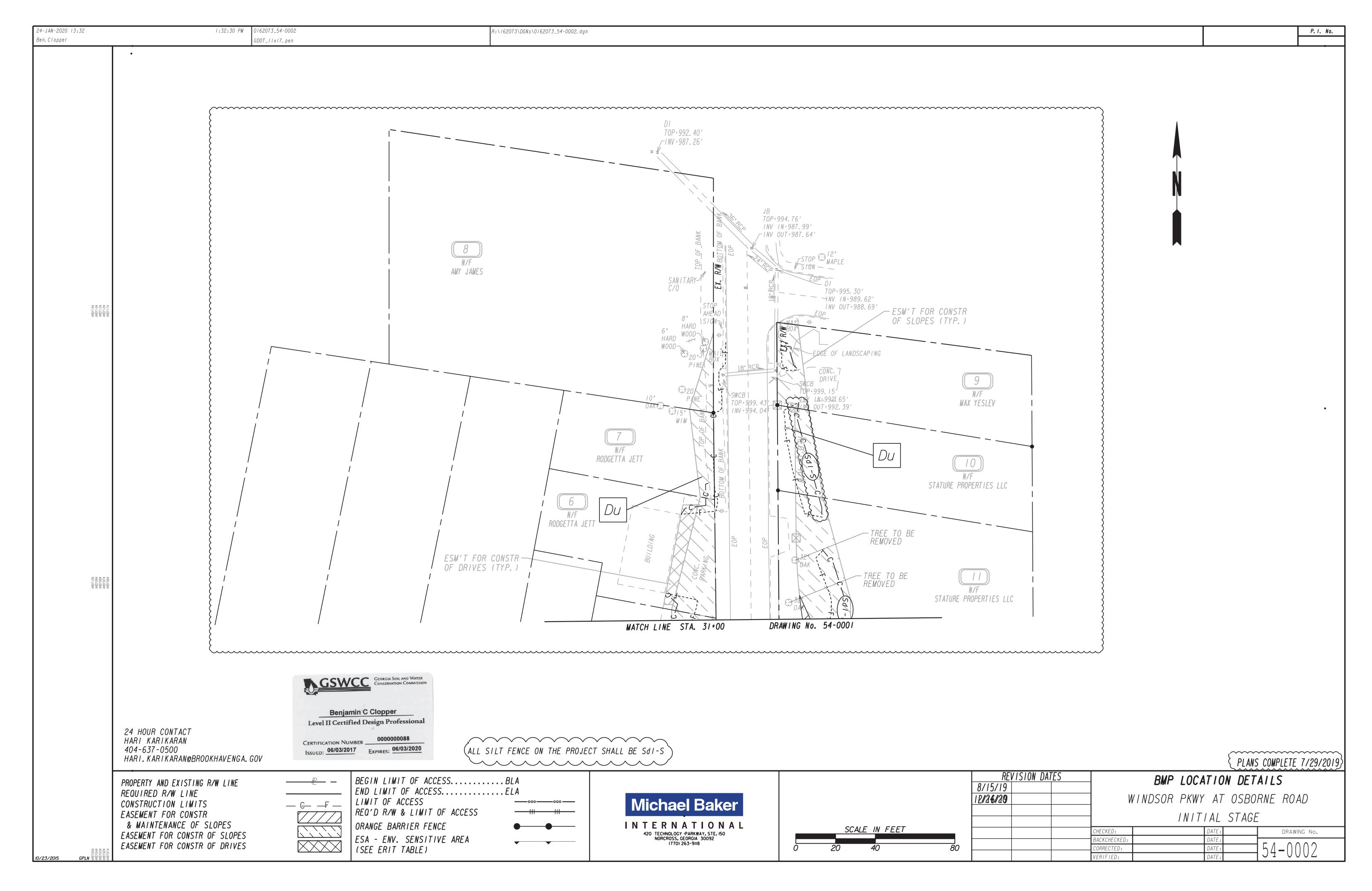


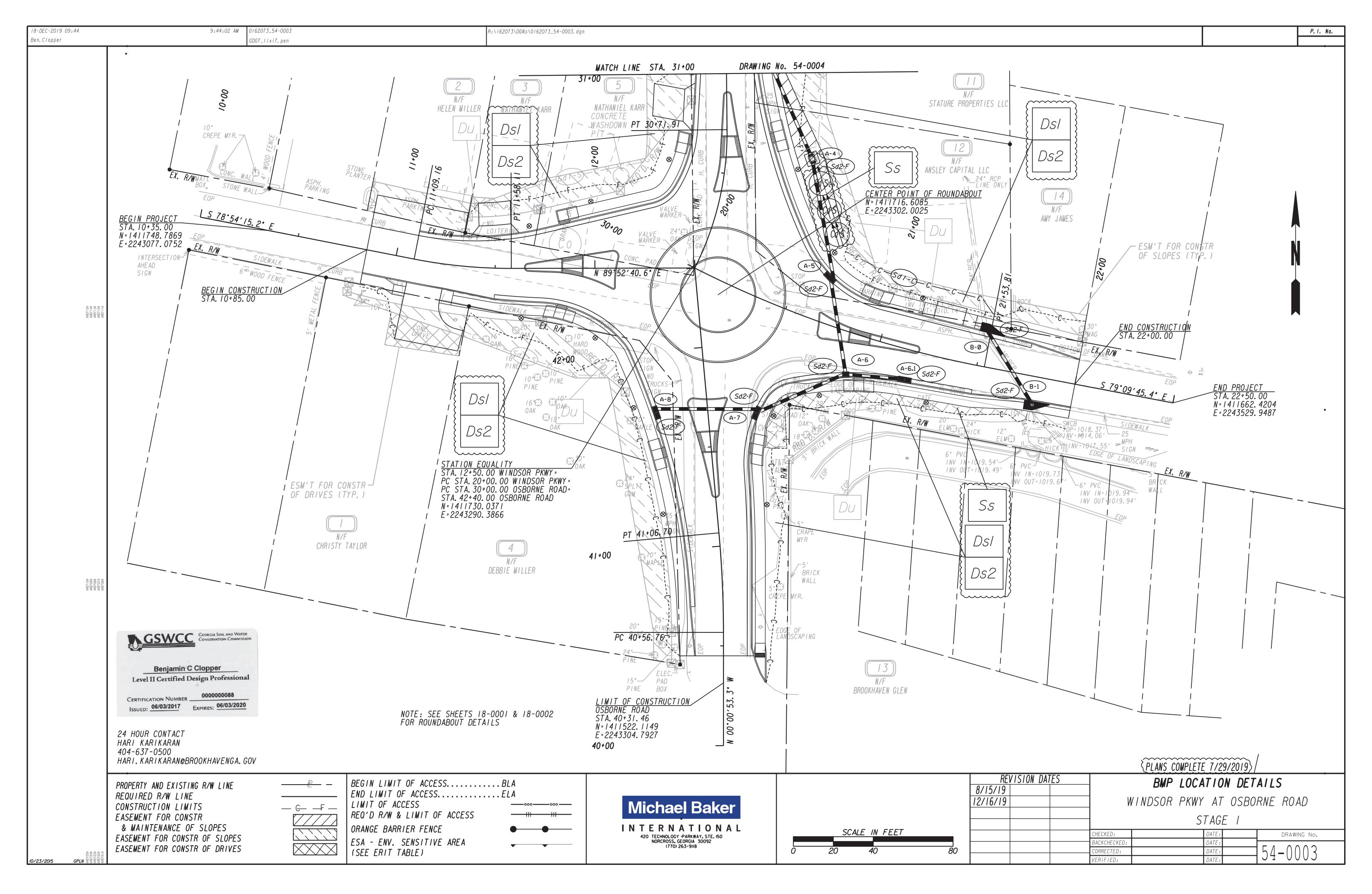
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		SEDIMENT BA BRUSH BARF CONSTRUCT DETAIL D- SECTION 2	RRIER DIER	THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD EUSED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (IO FEET OF MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS.		TEMPORARY SEDIMENT BAS CONSTRUCTION DETAIL D-220 D-22B	N STATE OF THE STA	A BASIN CREATED BY OR A COMBINATION OF YARDS OF SEDIMENT POSTION NOT EXCEED IN PRINCIPAL SPILLWAY, SKIMMER SHALL BE REINFEASIBLE. SUFFICE BASIN CONSTRUCTION	BOTH. THE BASIN IN PER ACRE OF DRAINAGE 50 ACRES. BASINS T AND AN EMERGENCY S FOUIRED AS PART OF T TIENT RIGHT-OF-WAY OF	DAMMING CONCENTRATED FLOW, S DESIGNED TO STORE 67 CUBIC AREA. THE DRAINAGE AREA YPICALLY CONSISTS OF A DAM, PILLWAY. A FLOATING SURFACE HE PRINCIPAL SPILLWAY UNLESS R EASEMENT IS NEEDED FOR ESS.	-
		* >		TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING CON NO SEPARATE PAYMENT SHALL BE MADE.	т.		(Sd3)	PRACTICAL. BASINS CONSTRUCTION ACTIVI OF THE "MANUAL FOR	SHOULD BE LOCATED TO TIES AND UTILITIES.	ALL PROJECTS, BUT MAY NOT BE O MINIMIZE INTERFERENCE WITH REFER TO THE LATEST EDITION T CONTROL IN GEORGIA" FOR	1 1
		INLET SEDI TRAP (BAFFLE L CONSTRUCT DETAIL D SECTION	BOX)	BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLO RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.		ROCK OUTLET TEMPORARY SEDIMENT TRA CONSTRUCTION DETAIL D-53 SECTION 163		SEDIMENT PER DRAINAG DISTINGUISHED FROM T SPILLWAY. MAXIMUM F SPILLWAY IS 4 FEET.	GE AREA. DRAINAGE A TEMPORARY SEDIMENT E POND DEPTH FROM BOTT	ED TO STORE 67 CUBIC YARDS OF AREA SHALL NOT EXCEED 5 ACRES BASIN BY LACK OF PRINCIPAL TOM OF POND TO EMERGENCY ALUATED PRIOR TO CONSIDERING	
SREF128 SREF118		Sd2-B	SYMBOL (Sd2-B)		Sd4-0	SECTION 103	SYMBOL (Sd4-C)	A TEMPORARY SEDIMENT SMALL AREAS WITH NO COARSE SEDIMENT, BUT SUSPENDED.	T TRAP. A TEMPORARY UNUSUAL DRAINAGE FE T NOT AGAINST SILT (EDITION OF THE "MAN	Y SEDIMENT TRAP IS IDEAL FOR EATURES AND EFFECTIVE AGAINST OR CLAY PARTICLES THAT REMAIN NUAL FOR EROSION AND SEDIMENT	
		INLET SED TRAP (BLOCK & G. CONSTRUC DETAIL D SECTION	RAVEL)	BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATE THAT RANGE FROM 5 - 7 cfs.	Sk	FLOATING SURFACE SKIMM CONSTRUCTION DETAIL D-220 D-22B SECTION 163		SEDIMENT BASIN AT A IS DESIGNED TO DRAIN INFORMATION SHALL BE INFORMATION IN PLANS SHALL PROVIDE A WRIT	CONTROLLED FLOW RAT N THE BASIN WITHIN 2 E PROVIDED IN CONJUN S. IF A SKIMMER IS TTEN JUSTIFICATION I		v
			SYMBOL (Sd2-Bg)				SYMBOL Sk	THE PRIMARY SPILLWAY CONJUNCTION WITH THE APPLICABLE. REFER TO THE LATEST CONTROL IN GEORGIA*	Y. THE SKIMMER BMP E TEMPORARY SEDIMENT EDITION OF THE "MAN FOR ADDITIONAL INFO		
		INLET SEDI TRAP (FILTER FAI CONSTRUCT DETAIL D- SECTION	OR (c) OR (b) OR (c)	(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PARTIES OF A PERFORATE OF CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%.		TEMPORARY STREAM CROSSI		WATERCOURSE FOR USE MEANS TO CROSS STRE STREAMS, DAMAGING TO THIS BMP SHOULD NOT THAN ONE SQUARE MILE THE ADDITIONAL DRAIL	BY CONSTRUCTION EQ AMS OR WATERCOURSES HE STREAM BED OR CH BE USED ON STREAMS E, UNLESS SPECIFICA NAGE AREA BY THE DE	A FLOWING STREAM OR UIPMENT. THIS BMP PROVIDES A WITHOUT MOVING SEDIMENT INTO ANNEL, OR CAUSING FLOODING. WITH DRAINAGE AREAS GREATER LLY DESIGNED TO ACCOMMODATE SIGN PROFESSIONAL. E SHALL ACCOMPANY THE DESIGN.	
			SYMBOL (Sd2-F)	THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDE FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.			SYMBOL Sr	*MANUAL FOR EROSION	AND SEDIMENT CONTR	O THE LATEST EDITION OF THE OL IN GEORGIA".	
\$\$EF06\$		INLET SED TRAP (GRAVE CONSTRUC DETAIL SECTION	TMENT TION 042 163	GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 or	I. DO NOT USE		EMS IN A FLOWING STREAM O		W HIGH TIDE.	WANACENENT DDACTICES (DND-1	
			SYMBOL (Sd2-G)		2. FOR ADDITION REFER TO THE CONTROL IN	UNAL INFURMATION ON HE LATEST EDITION OF GEORGIA".	THE DESIGN AND APPLICATION THE GEORGIA SOIL AND WAT	ON OF ERUSION AND SEDIM	MENI CUNTRUL BEST N SSION'S, "MANUAL FO	MANAGEMENT PRACTICES (BMPs) OR EROSION AND SEDIMENT	
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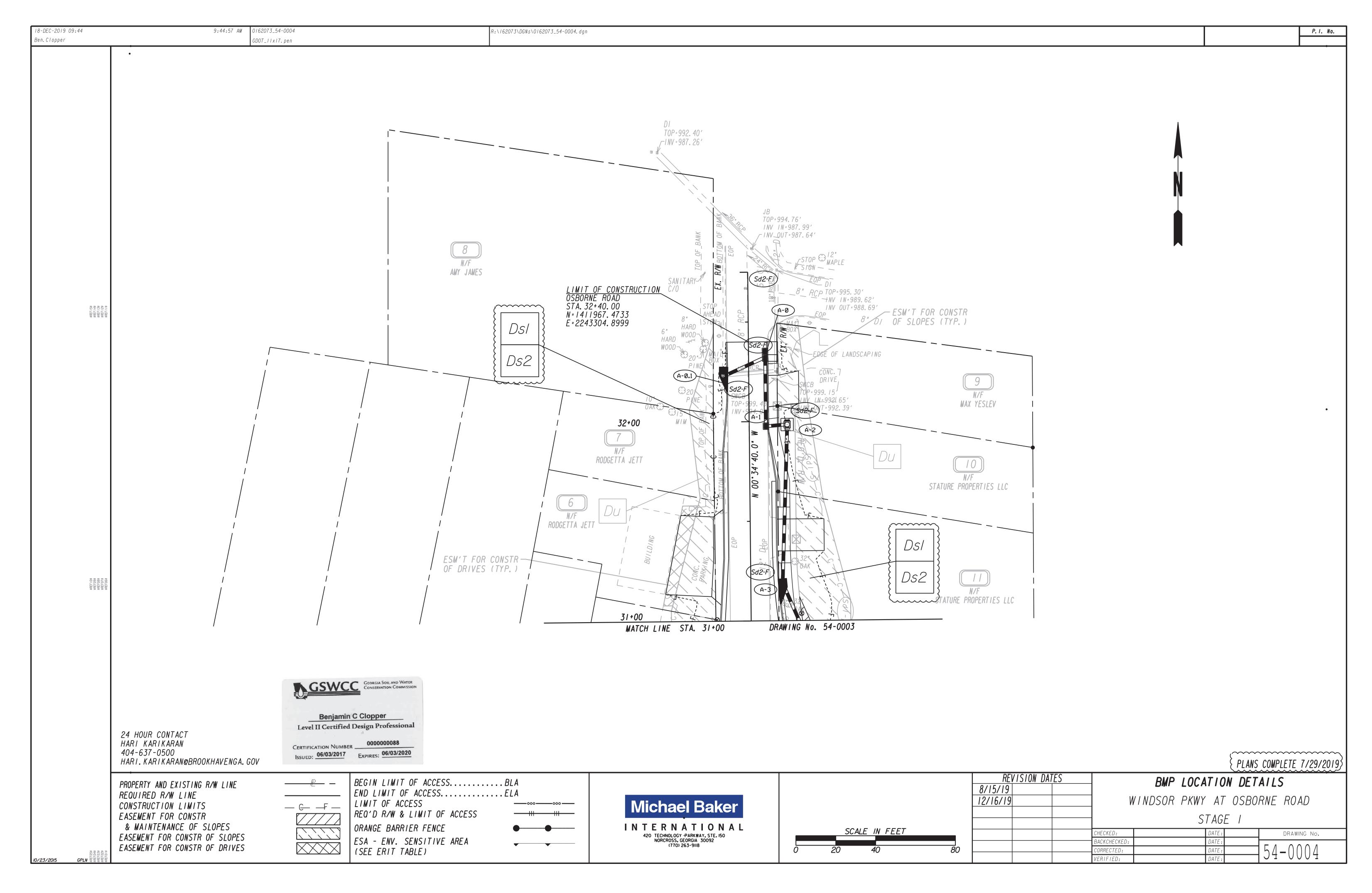
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	CODE STD OR DETAIL SPEC. SECT.	DETAIL DESCRIPTION	PRACTICE CODE STD OR DETAIL SPEC. SECT.	DESCRIPTION
	STORM DRAIN OUTLET PROTECTION	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATE BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM	TO EM.	
	St GA. STD. 1125 & 2332 SYMBO	IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGE PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.		
	St)		
	STORM DRAIN OUTLET PROTECTION (RIP-RAP)	RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLED OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGNATION OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW	GN	
	St-Rp) CONSTRUCTION DETAIL D-55 SECTION 603	BUT LARGER STORMS ARE RECOMMENDED. TYPE-I RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50		
\$REF 15\$ \$REF 14\$ \$REF 12\$ \$REF 12\$	PATTE I	REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIM CHANNEL INFORMATION TO BE INCLUDED IN THE PLANS.		
	SURF ACE ROUGHEN I NG	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT		
	SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS,		
	LINE C	BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECT. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BE SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.	WP	
	TURBIDITY CURTAIN	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REM.	A/N	
	DETAIL D-51	WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED	AND	
	LINE C	ODE INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs.		
	TURBIDITY *9	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM		
		MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REM. WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLI	NOTE: I. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA E	FLOW HIGH TIDE.
\$REF10. \$REF09. \$REF06.	TC-S SECTION 170 LINE CO	I DE OSED AS DINEGIED DI THE ENGINEEN.	2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND S REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION CO	
	Tc-S	PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.		
			REVISION DATES 3/2/2017	EROSION CONTROL LEGEND UNIFORM CODE SHEET
			NO SCALE	SHEET 7 OF 7 CHECKED: D. EAGLETON DATE: 01/01/16 DRAWING NO.
	7/31/2015 GPLN			CORRECTED: DATE: 52-0007
				PLANS COMPLETE
ON HOUD	CONTACT		REVISION 12/16/19	
HARI KA1 404-637	R I K ARAN -0500	Michael Baker		
	RIKARAN@BROOKHAVENGA. GOV	420 TECHNOLOGY PARKWAY, STE. 150 NORCROSS, GEORGIA 30092 (770) 263-9118		CHECKED: BACKCHECKED: CORRECTED: VERIFIED: DATE: DATE: DATE: DATE: DATE:

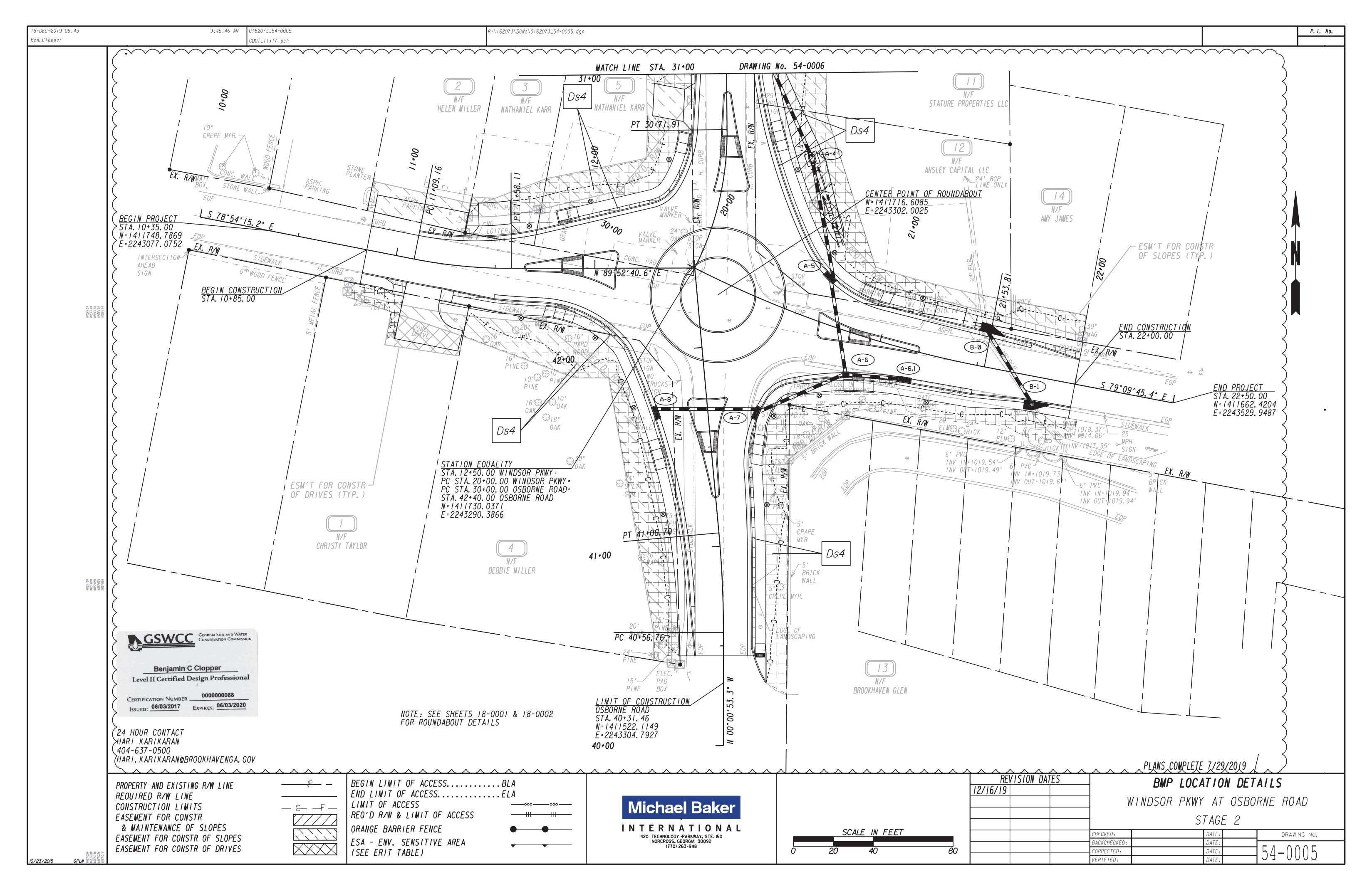


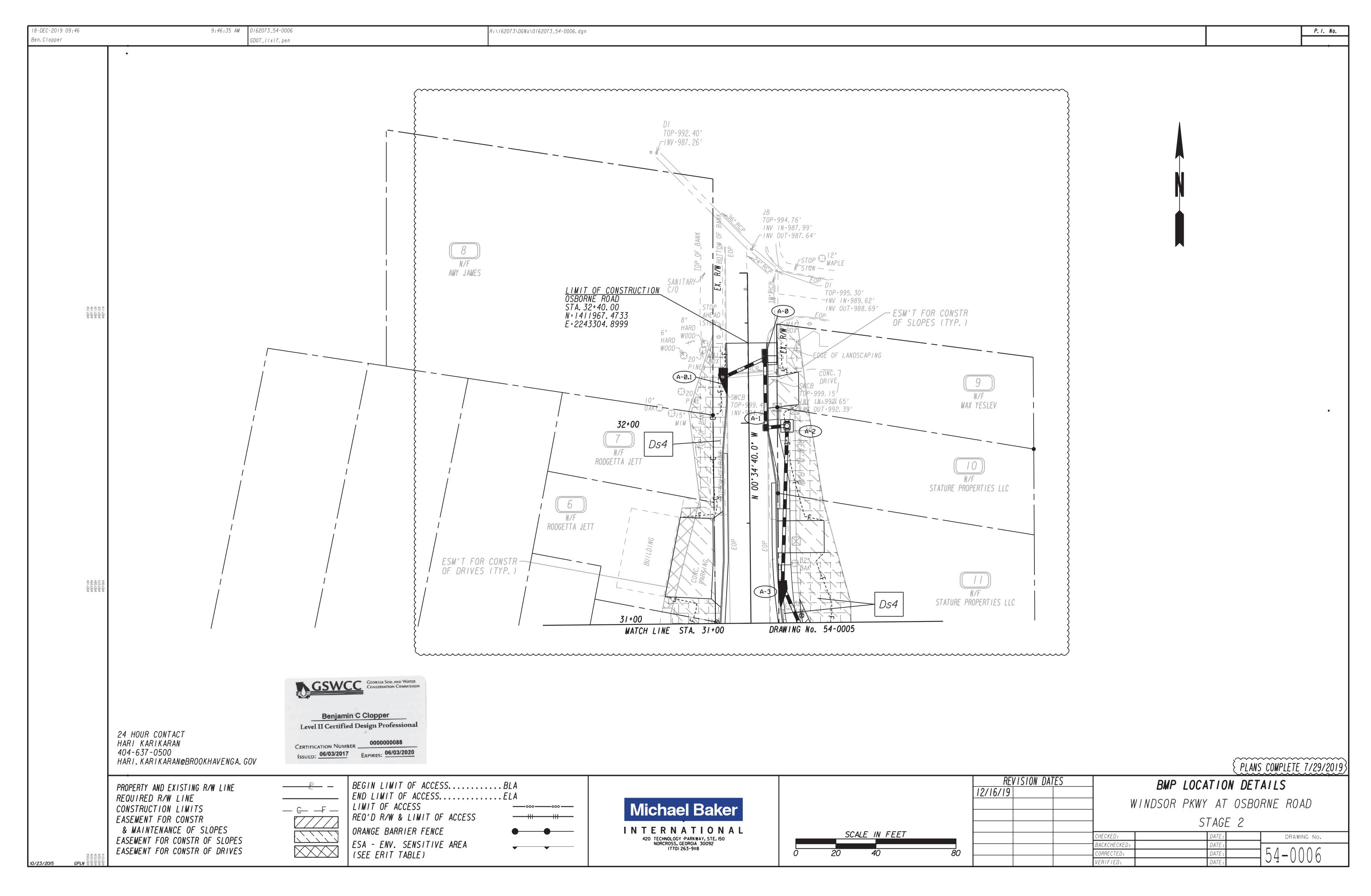


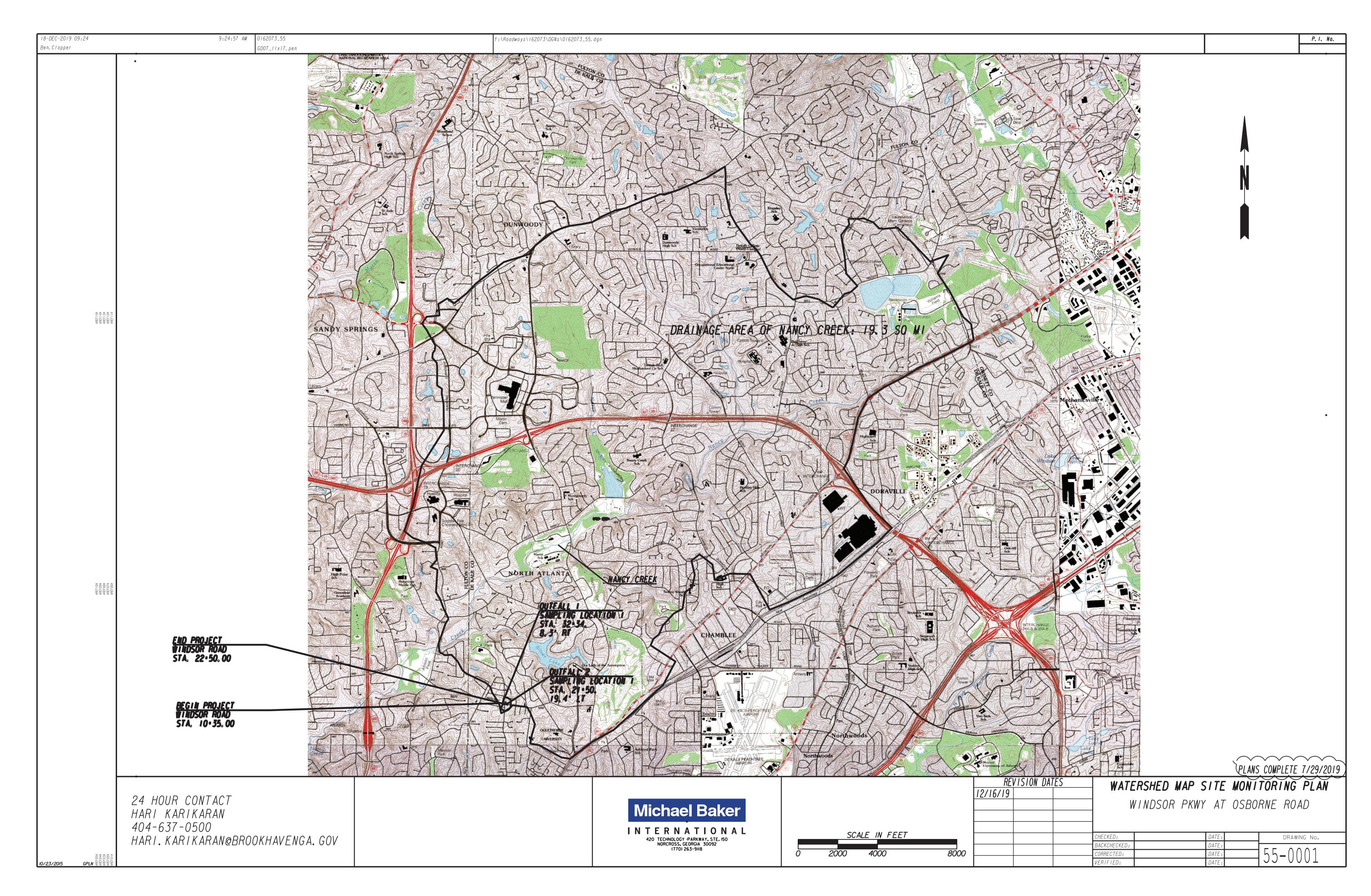


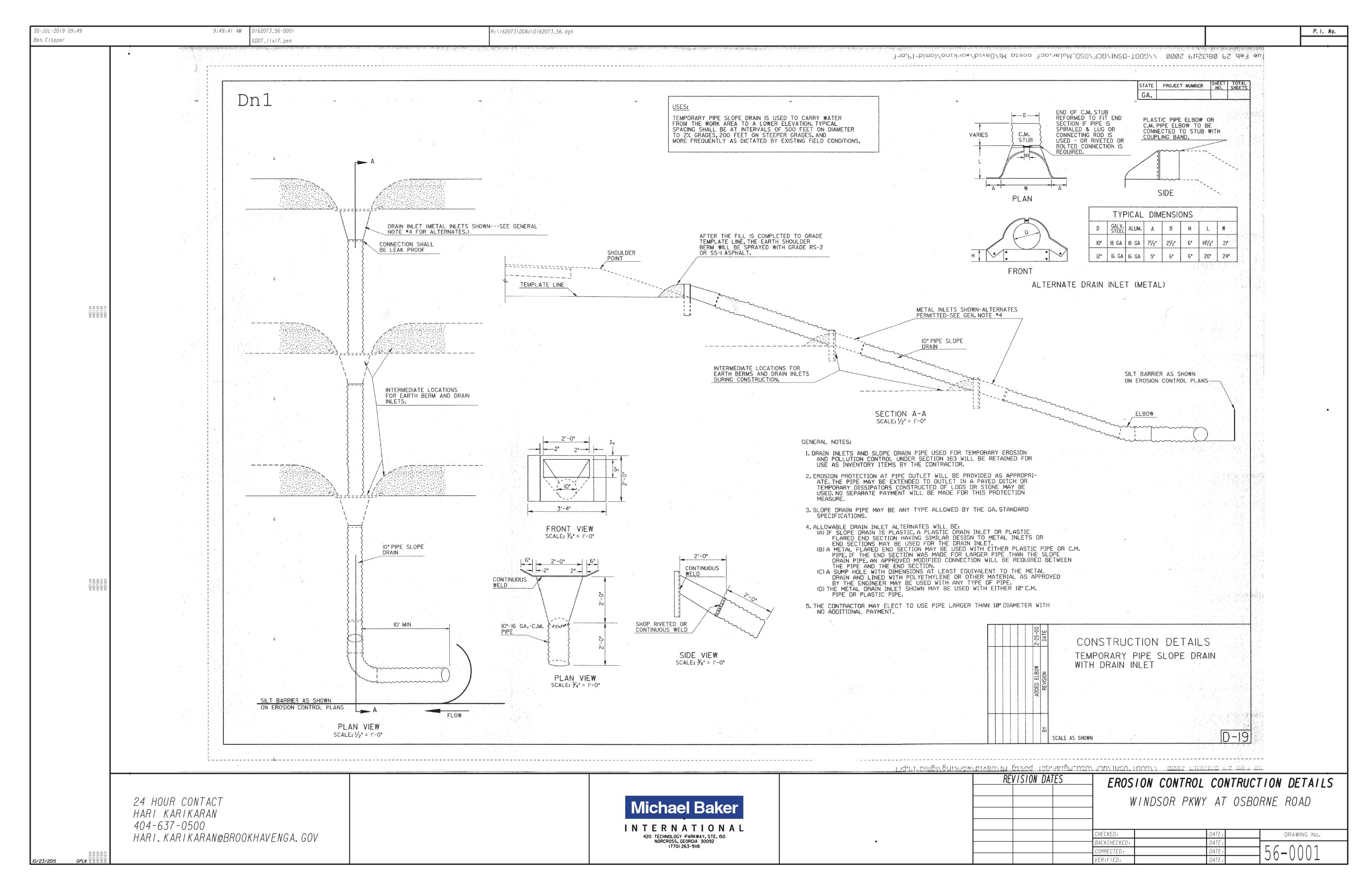


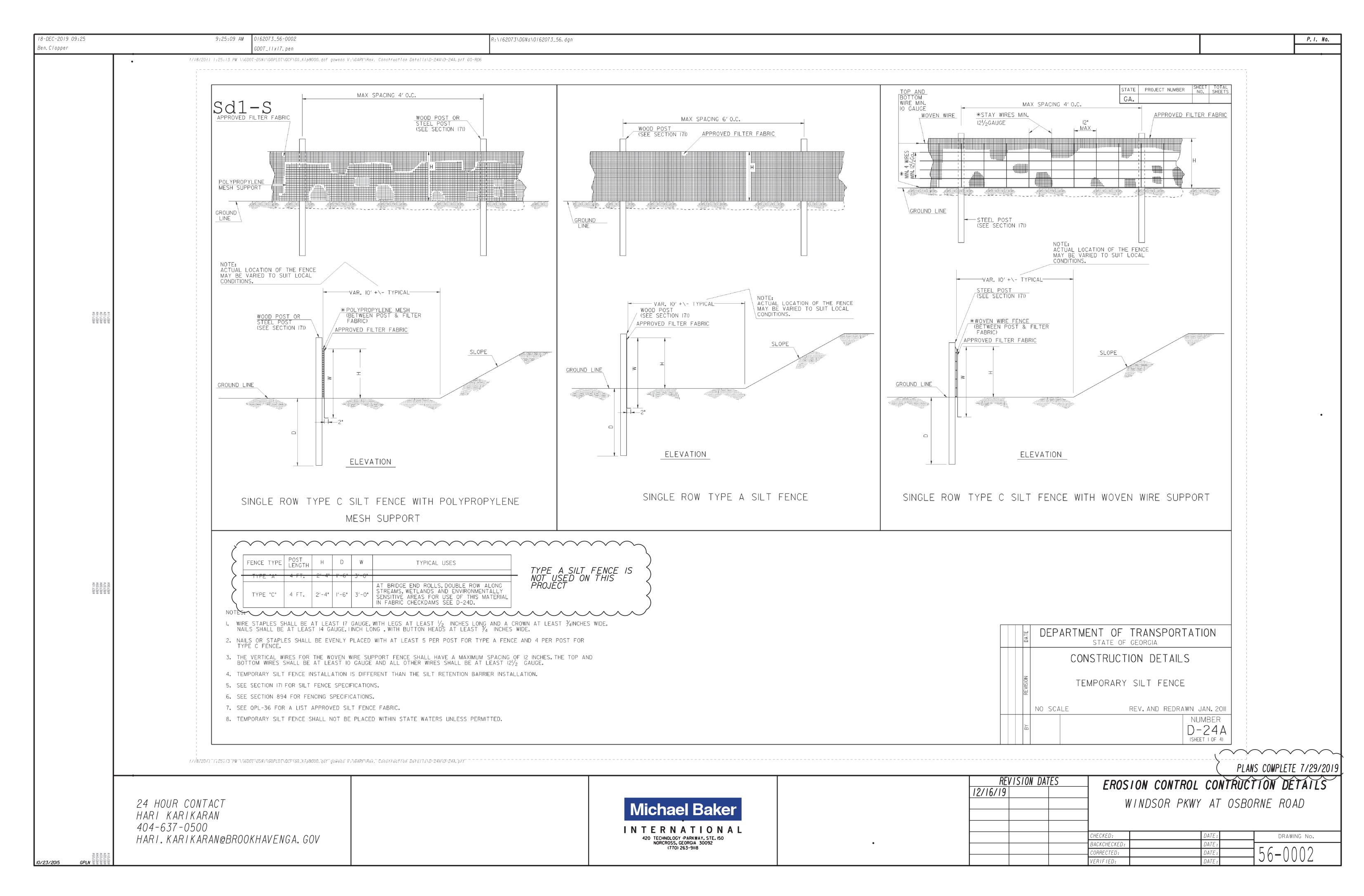


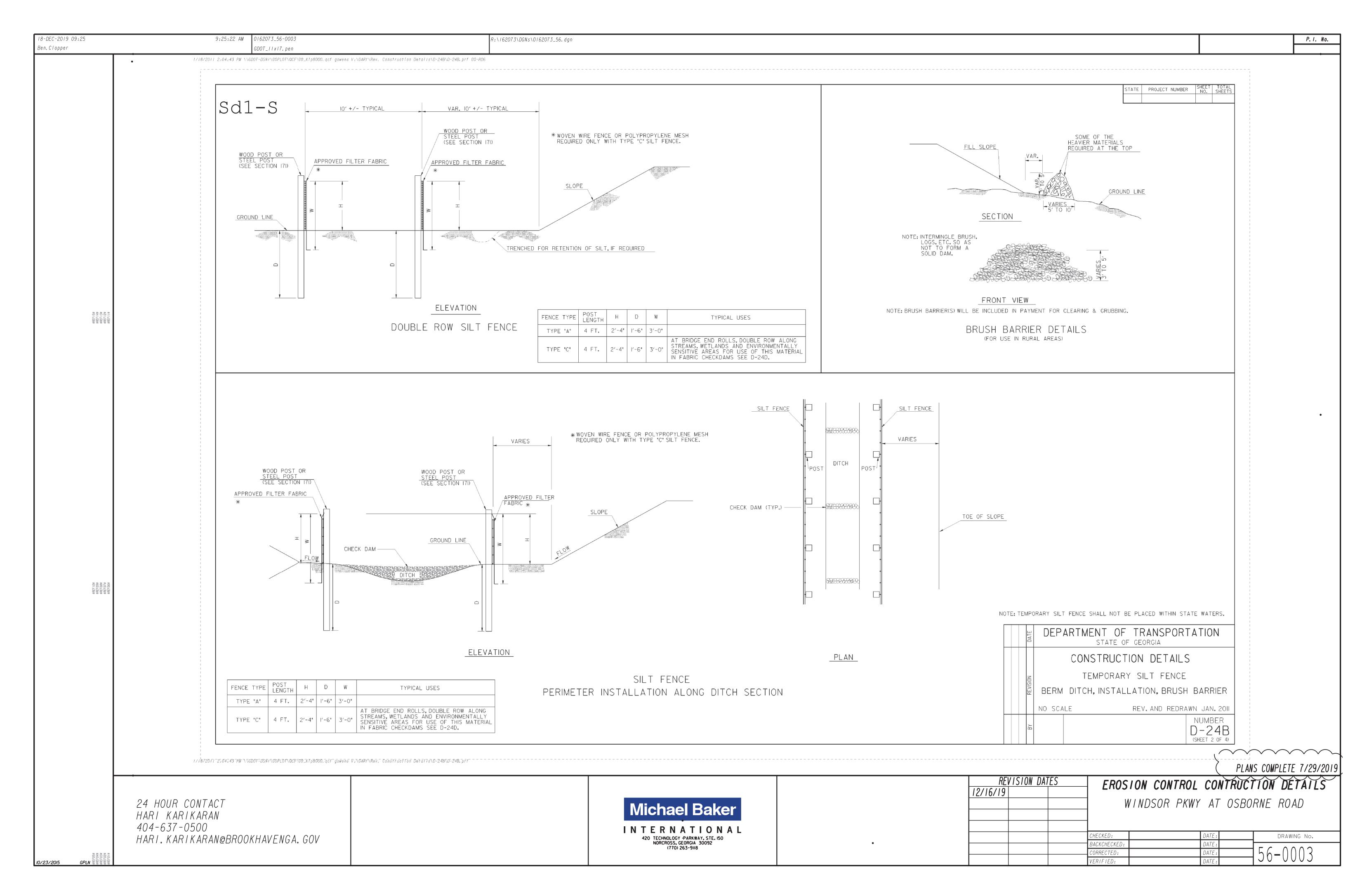


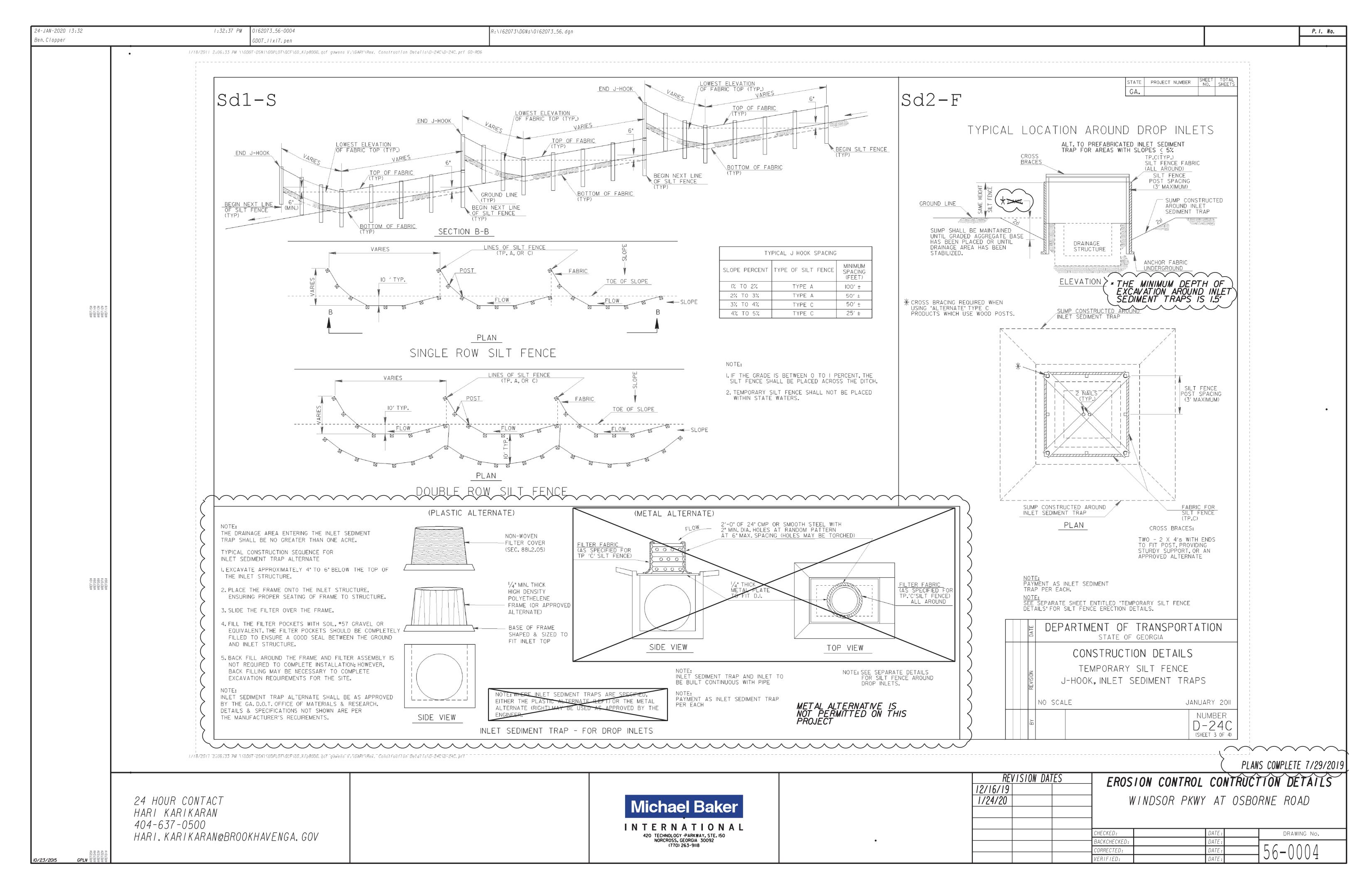


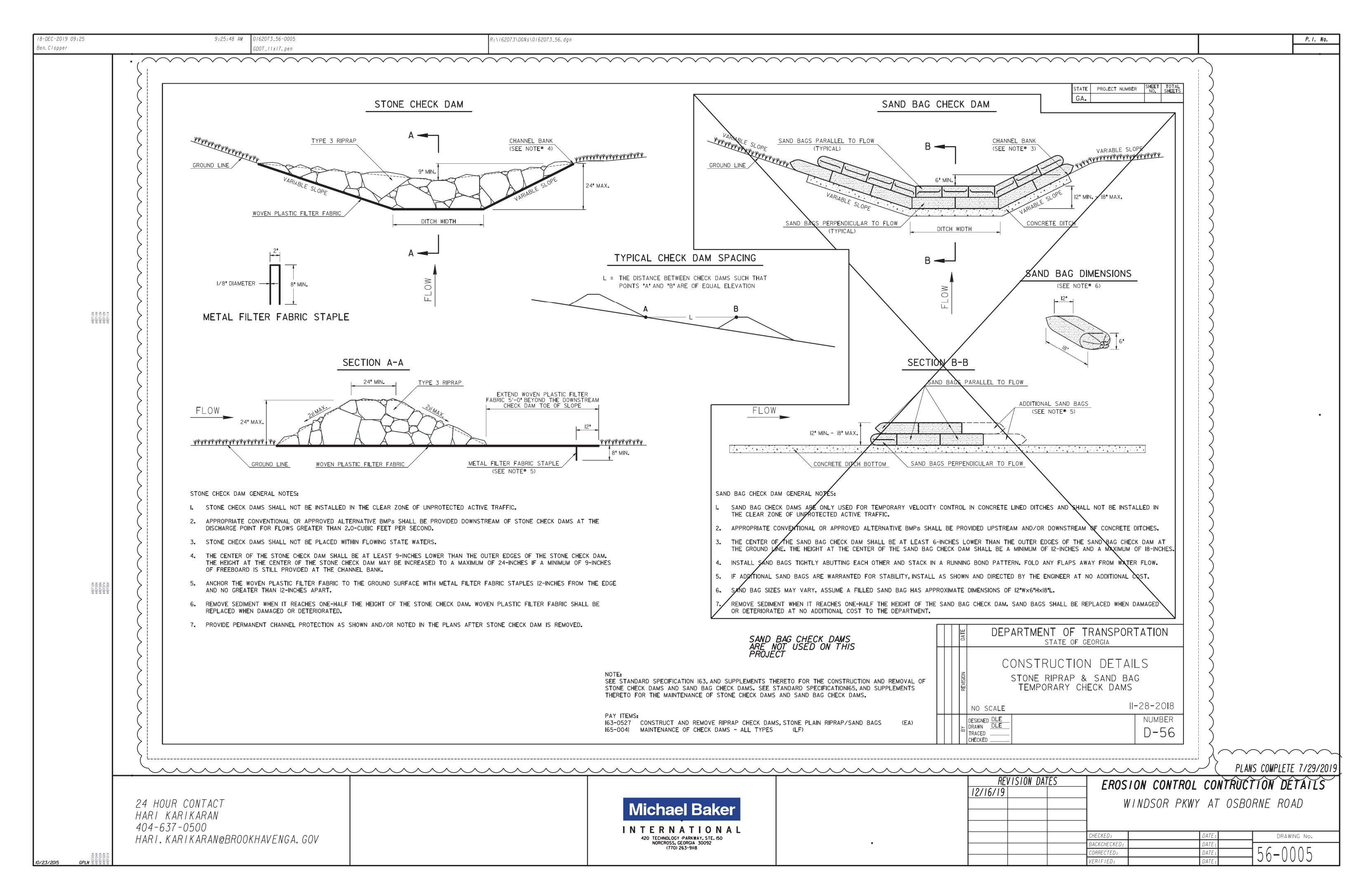


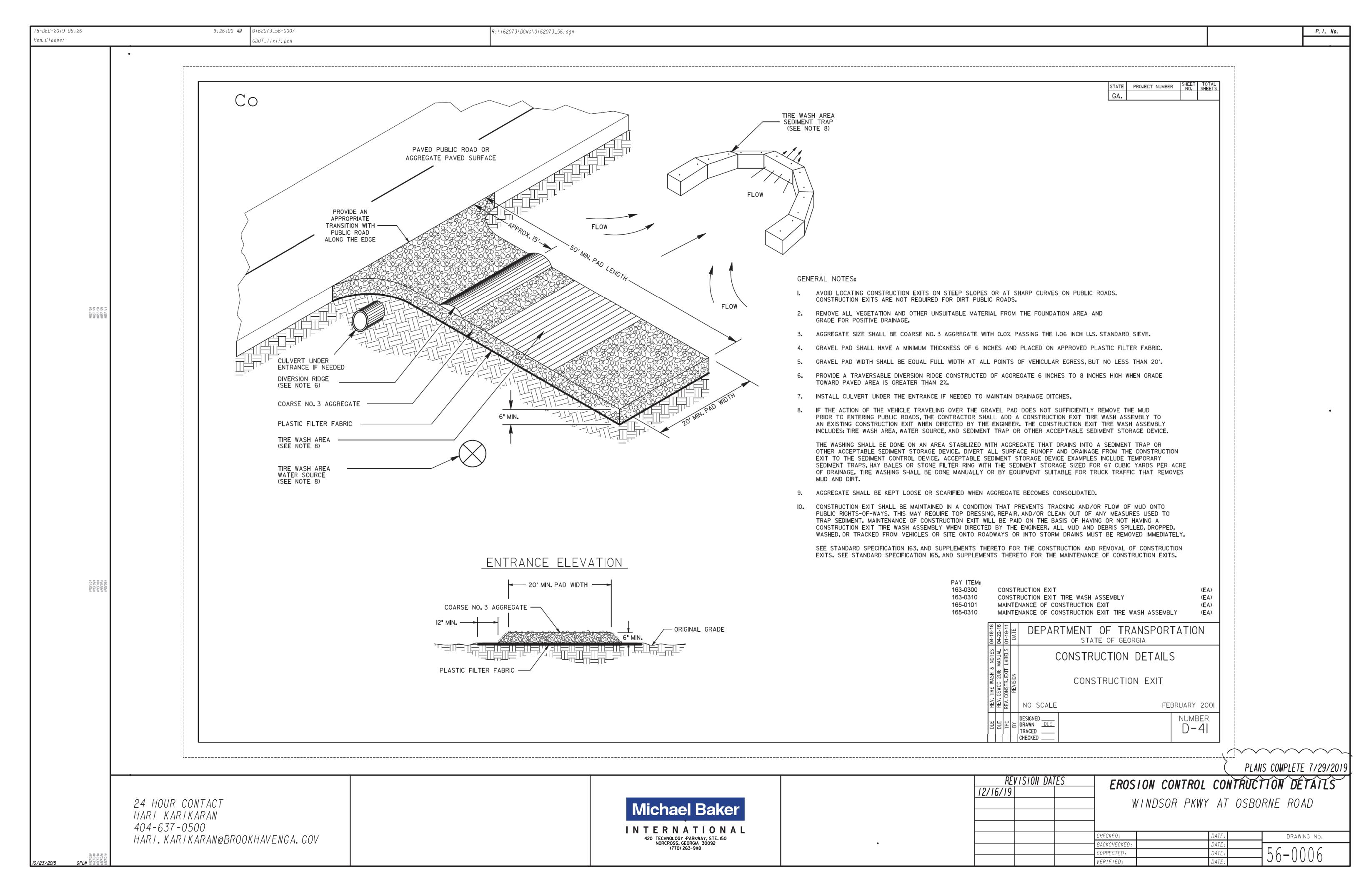


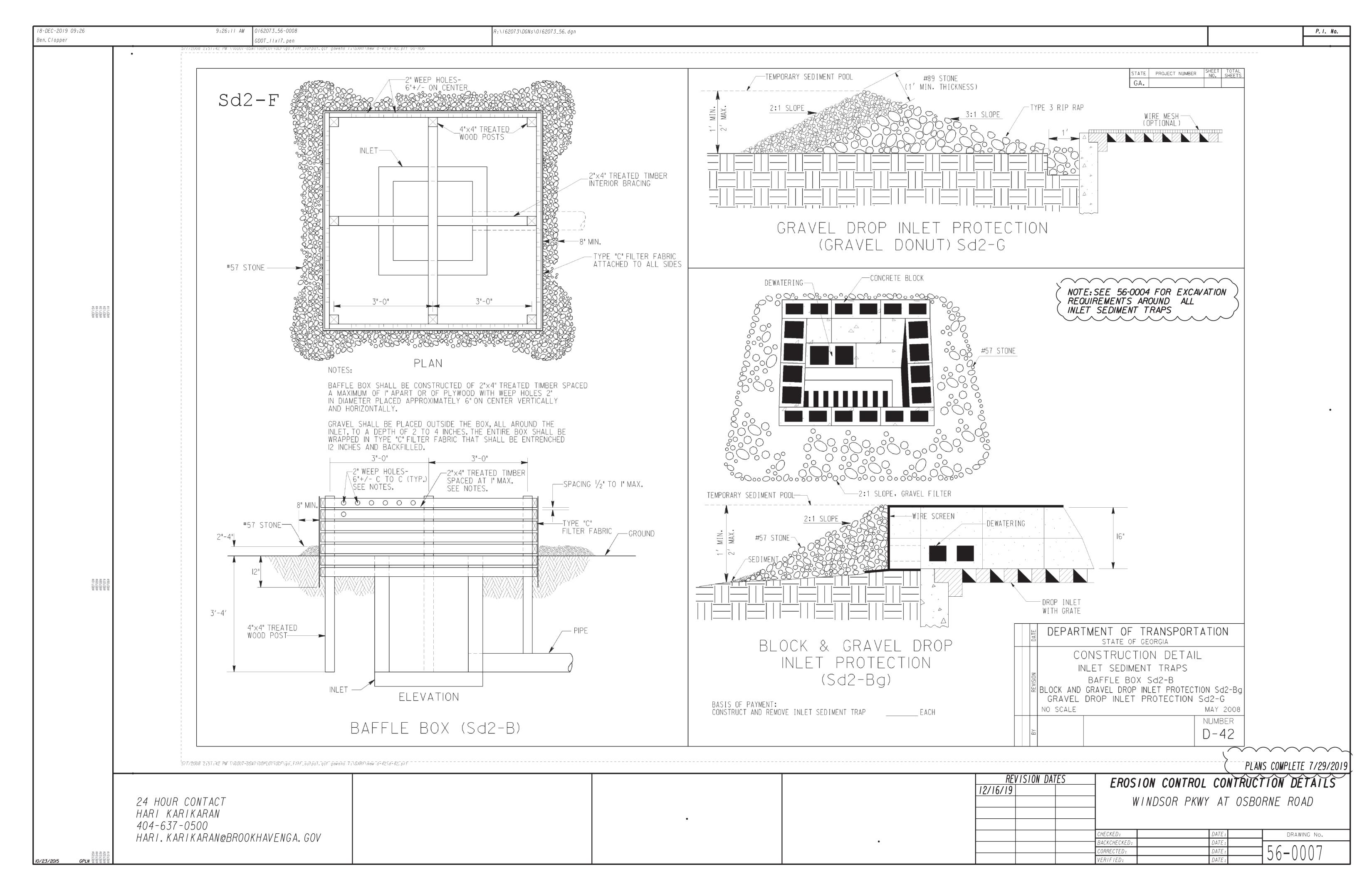


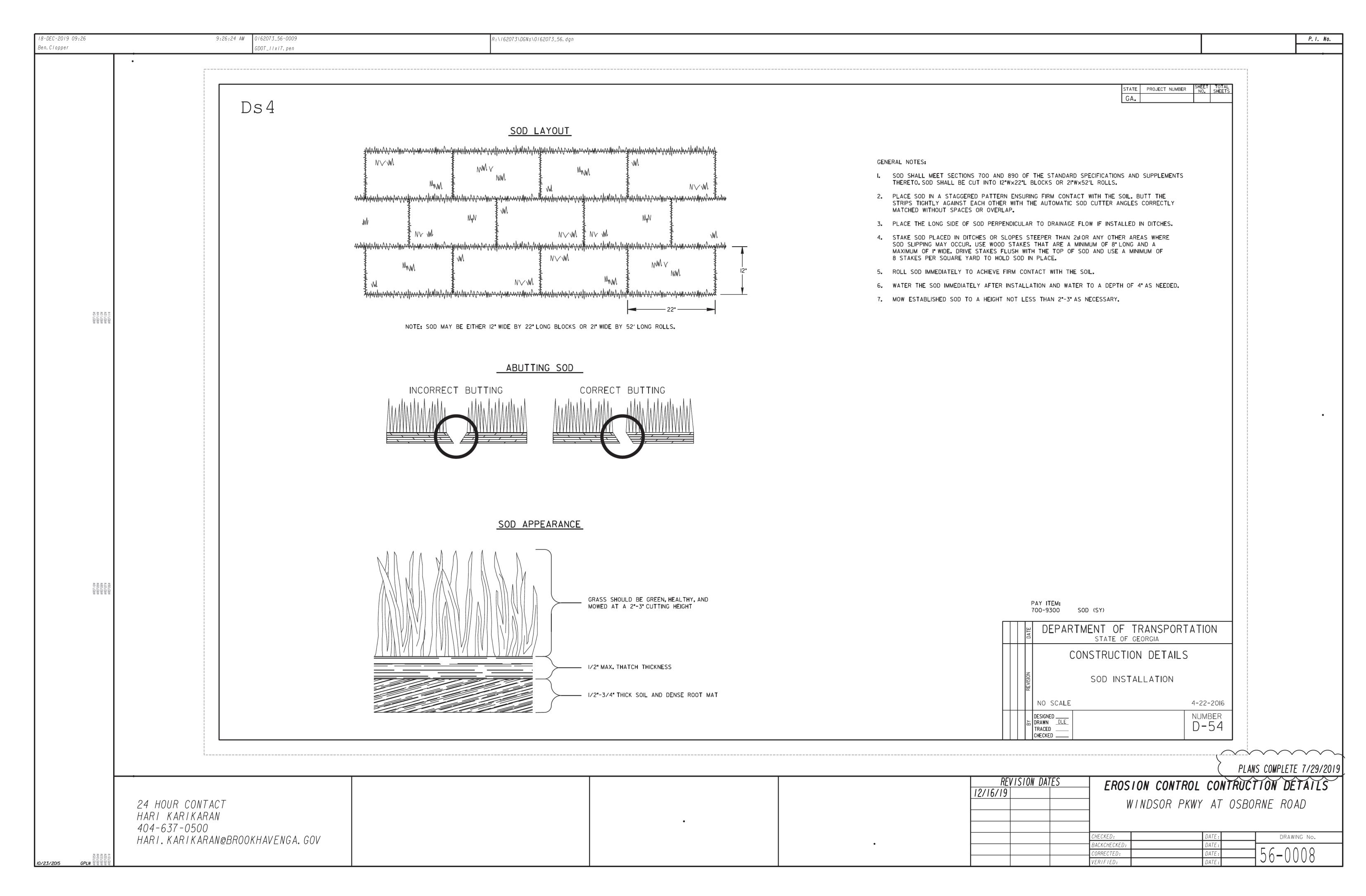


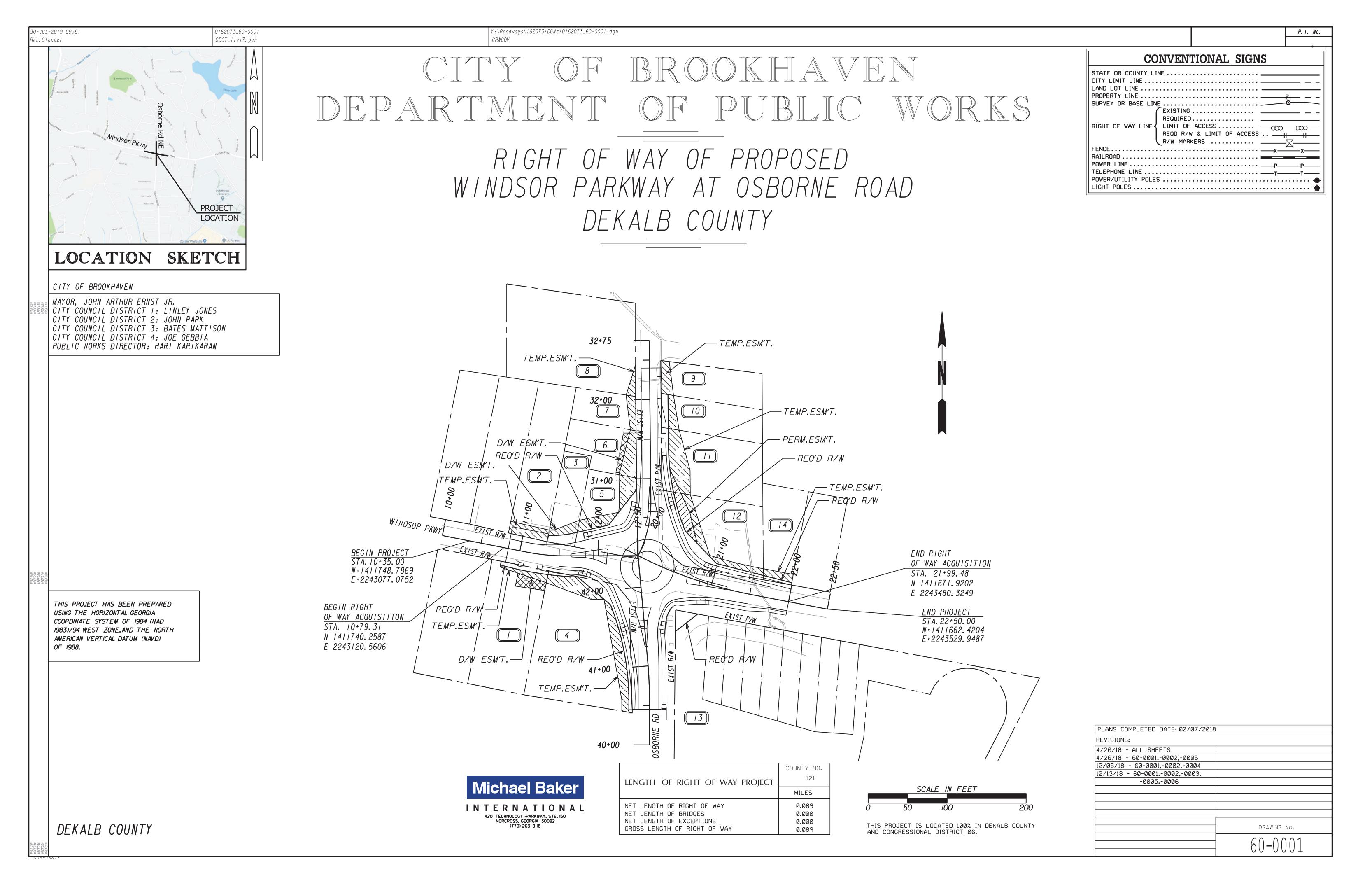


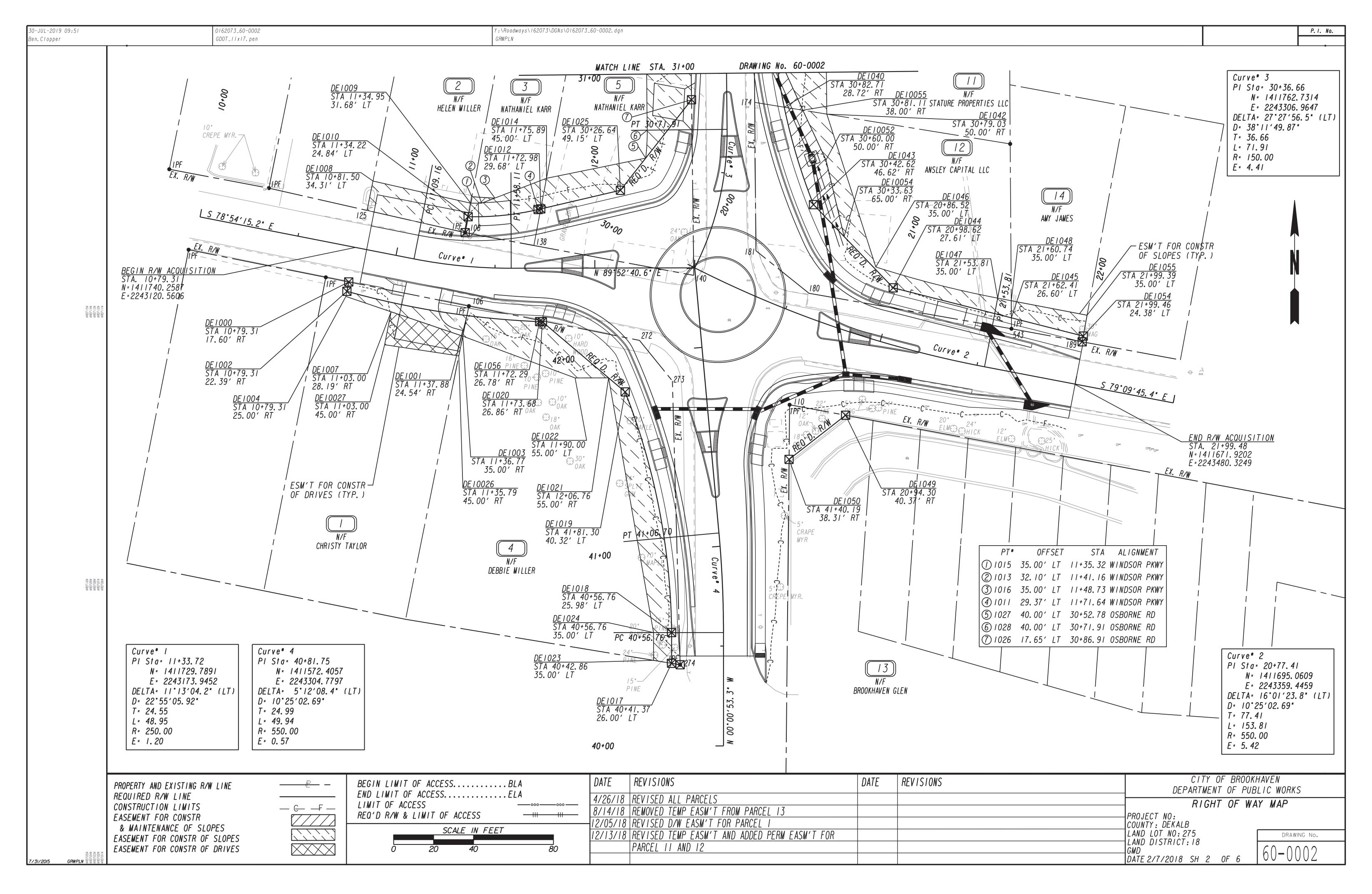


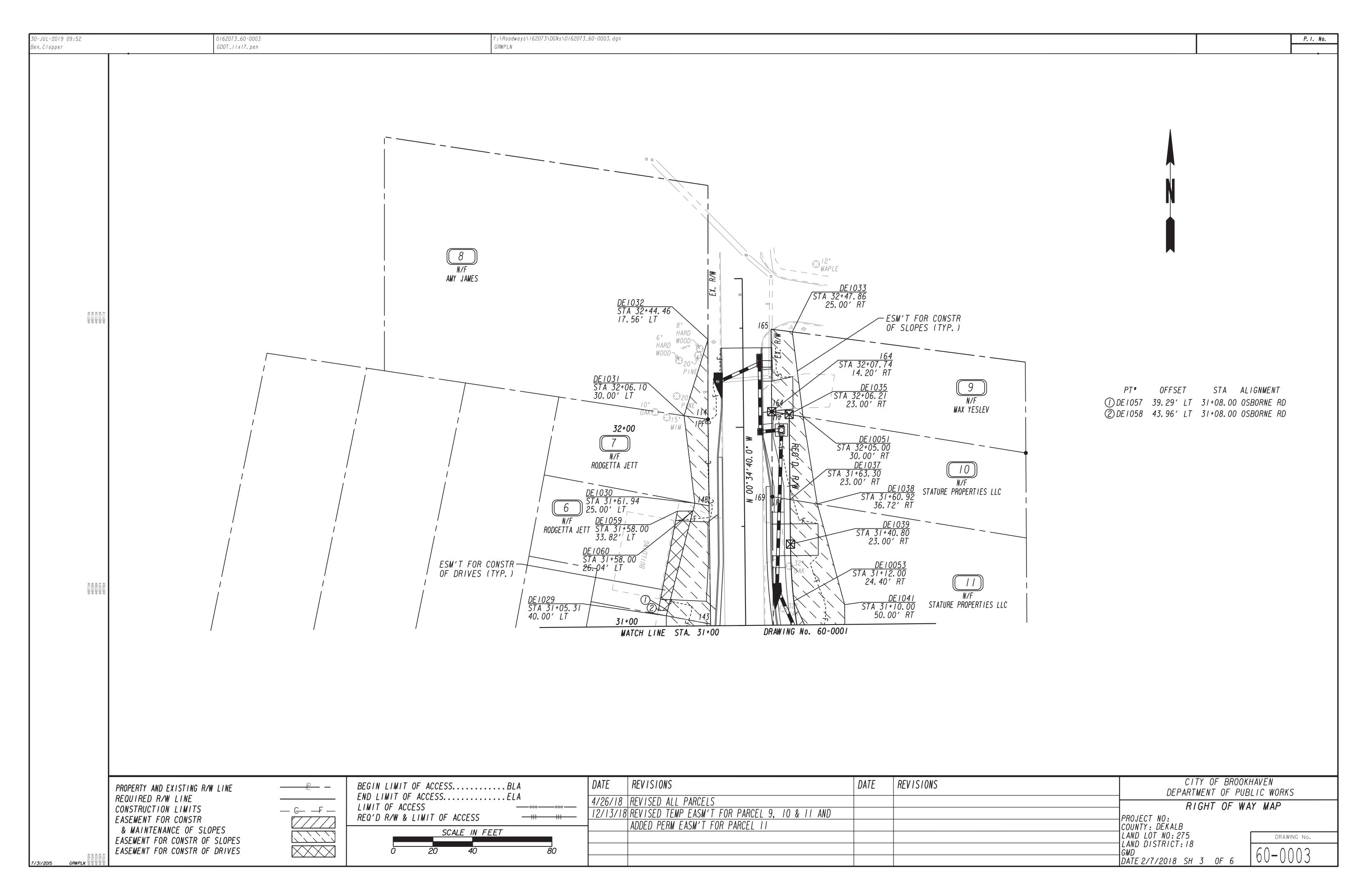


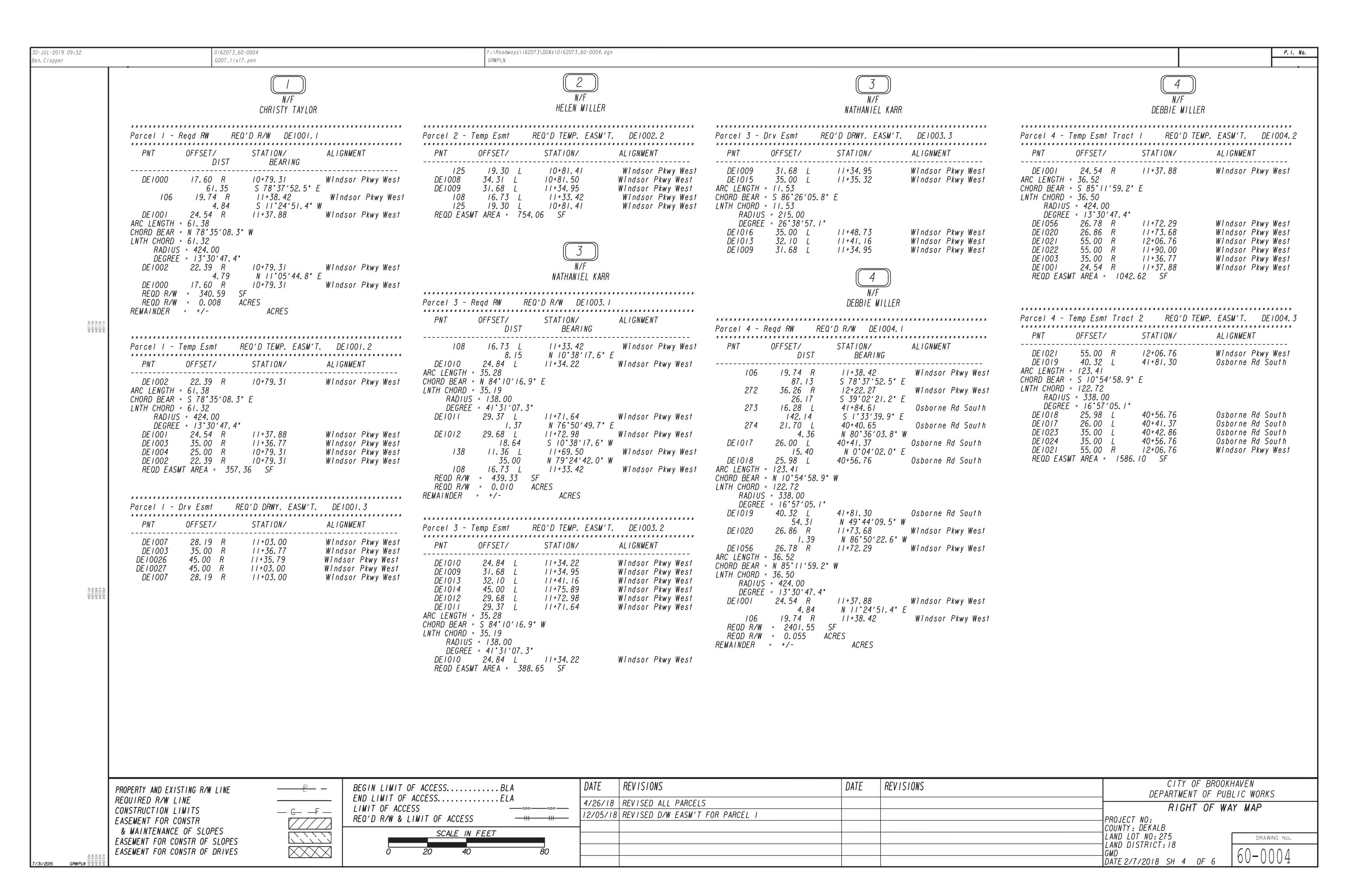












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	N/F NATHANIEL KARR	6 N/F RODGETTA JETT	9 N/F MAX YESLEV	N/F STATURE PROPERTIES LLC
\$96E 7 1 58 \$16E 7 1 58 \$16E 7 1 58 \$16E 7 1 58 \$16E 7 1 58	Parcel 5 - Reqd RW REO'D R/W DE1005.1 PNT OFFSET/ DIST STATION/ BEARING 138 11.36 L 11-69.50 WIndsor Pkwy West 40.96 N 76:50' 49.7' E 40.96 N 76:50' 49.7' E DE1012 29.68 L 11-72.98 Windsor Pkwy West 57.64 N 38'08'30.3' E DE1026 17.65 L 30'86.91 Osborne Rd North 87.95 S' 0'43'54.5' E 140 3.77 R 12-49.52 Windsor Pkwy West 138 11.36 L 11-69.50 Windsor Pkwy West REOD R/W · 3371.12 SF REDO R/W · 3371.12 SF REDO R/W · 0.077 ACRES PARCEL 5 - Temp Esmi Tract 1 REO'D TEMP. EASM'T. DE1005.2 PNT OFFSET/ STATION/ ALIGNMENT DE1012 29.68 L 11-72.98 Windsor Pkwy West DE1014 45.00 L 11-75.89 Windsor Pkwy West DE1012 49.15 L 30'86.78 Osborne Rd North DE1012 29.68 L 11-72.98 Windsor Pkwy West REOD EASMT AREA · 628.42 SF Parcel 5 - Temp Esmi Tract 2 REO'D TEMP. EASM'T. DE1005.3 PNT OFFSET/ STATION/ ALIGNMENT DE1012 49.15 L 30'86.91 Osborne Rd North DE1012 740.00 L 30'52.78 Osborne Rd North DE1012 740.00 L 30'52.78 Osborne Rd North DE1012 75.68 L 30'86.91 Osborne Rd North DE1012 76.50 L 30'86.91 Osborne Rd North DE1012 76.51 L 30'86.91 Osborne Rd North DE1027 17.65 L 30'86.91 Osborne Rd North DE1028 40.00 L 31'05.31 Osborne Rd North DE1029 40.00 L 30'05.89 Osborne Rd North	Parcel 6 - Temp Esm! REO'D TEMP. EASM'T. DE1006.1 PNT OFFSETY STATIONY ALIGNMENT 143 17.69 L 31+00.88 Osborne Rd North DE1029 40.00 L 31+05.31 Osborne Rd North 148 17.85 L 31+60.94 Osborne Rd North 148 17.85 L 31+60.95 Osborne Rd North 143 17.69 L 31+00.88 Osborne Rd North REOD EASMT AREA - 878.09 SF Parcel 6 - Drv Esmt REO'D DRWY. EASM'T. DE1006.2 PNT OFFSETY STATIONY ALIGNMENT DE1057 39.29 L 31+08.00 Osborne Rd North DE1058 43.96 L 31+08.00 Osborne Rd North DE1058 43.96 L 31+08.00 Osborne Rd North DE1059 33.82 L 31+58.00 Osborne Rd North DE1057 39.29 L 31+08.00 Osborne Rd North DE1057 39.29 L 31+08.50 Osborne Rd North DE1057 30.00 L 32+06.10 Osborne Rd North DE1058 ASSAT AREA - 416.82 SF Porcel 8 - Temp Esmt REO'D TEMP. EASM'T. DE1008.1 PNT OFFSETY STATIONY ALIGNMENT 114 17.97 L 32+04.17 Osborne Rd North DE1031 30.00 L 32+06.10 Osborne Rd North DE1032 17.56 L 32+04.17 Osborne Rd North DE1032 17.56 L 32+04.17 Osborne Rd North DE1033 30.00 L 32+06.10 Osborne Rd North DE1032 17.56 L 32+04.17 Osborne Rd North DE1033 30.00 L 32+06.10 Osborne Rd North DE1034 30.00 L 32+06.10 Osborne Rd North DE1035 30.00 L 32+06.10 Osborne Rd North DE1036 30.00 L 32+06.10 Osborne Rd North DE1037 30.00 L 32+06.10 Osborne Rd North DE1038 30.00 L 32+06.10 Osborne Rd North	Parcel 9 - Temp Esm! REO'D TEMP. EASM'T. DE1009.! PNT OFFSET/ STATION/ ALIGNMENT 164 14.20 R 32+07.74 Osborne Rd North 165 14.28 R 32+05.00 Osborne Rd North 165 14.28 R 32+05.00 Osborne Rd North 164 14.20 R 32+07.74 Osborne Rd North 164 14.20 R 32+07.74 Osborne Rd North 164 14.20 R 32+07.74 Osborne Rd North 165 14.28 R 32+07.74 Osborne Rd North 166 14.28 R 32+07.74 Osborne Rd North 167 STATURE PROPERTIES LLC Parcel 10 - Reqd RW REO'D R/W DE1010.1 PNT OFFSET/ STATION/ ALIGNMENT 169 14.12 R 31+64.83 Osborne Rd North 169 14.12 R 31+64.83 W 160 14.20 R 32+07.74 Osborne Rd North 169 14.20 R 32+07.74 Osborne Rd North 169 14.20 R 32+06.21 Osborne Rd North 169 14.12 R 31+64.83 Osborne Rd North 160 REDD R/W - 379.46 SF 160 R/W - 379.46 SF 160 REDD R/W - 379.46 SF 160 R/W - 379.46 SF 160 REDD R/W - 379.46 SF 1	Parcel II - Regd RW REO'D R/W DEIOII.I PNT OFFSET/ STATION/ BEARING 174
/	1 NOI ENTT 1 NO ENTSTINO N/ II ETNE	ACCESSBLA CCESSELA S DATE REVISIONS 4/26/18 REVISED ALL PARCELS	DATE REVISIONS	CITY OF BROOKHAVEN DEPARTMENT OF PUBLIC WORKS RIGHT OF WAY MAP
	EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES	MIT OF ACCESS		PROJECT NO: COUNTY: DEKALB LAND LOT NO: 275 LAND DISTRICT: 18

