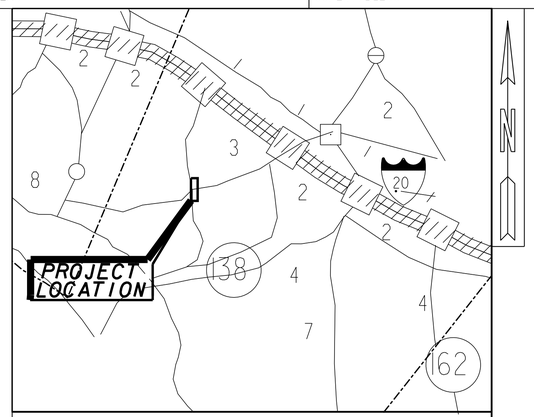
DATE$$$ $USER$	PRF $$PENTABLE$$	DGN GRWCOV	STATE	PROJECT NUMBER	P. I. No.
			GA	CSSTP-0006-00(932)	0006932

DEPARTMENT OF TRANSPORTATION
ROCKDALE COUNTY

KLONDIKE ROAD (CR 57)/ MCDANIEL MILL ROAD (CR 62)/
HURST ROAD INTERSECTION IMPROVEMENTS

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

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



LOCATION SKETCH - N.T.S.

DESIGN DATA:	KLONDIKE RD	MCDANIEL MILL RD
TRAFFIC A.D.T.:	3,350 (2020)	5,600 (2020)
TRAFFIC A.D.T.:	4,750 (2040)	7,900 (2040)
TRAFFIC D.H.V.:	440 (2040)	735 (2040)
DIRECTIONAL DIST:	51%	68%
% TRUCKS:	5%	5%
24 HR.TRUCKS %:	8%	8%
SPEED DESIGN:	45 MPH	45 MPH

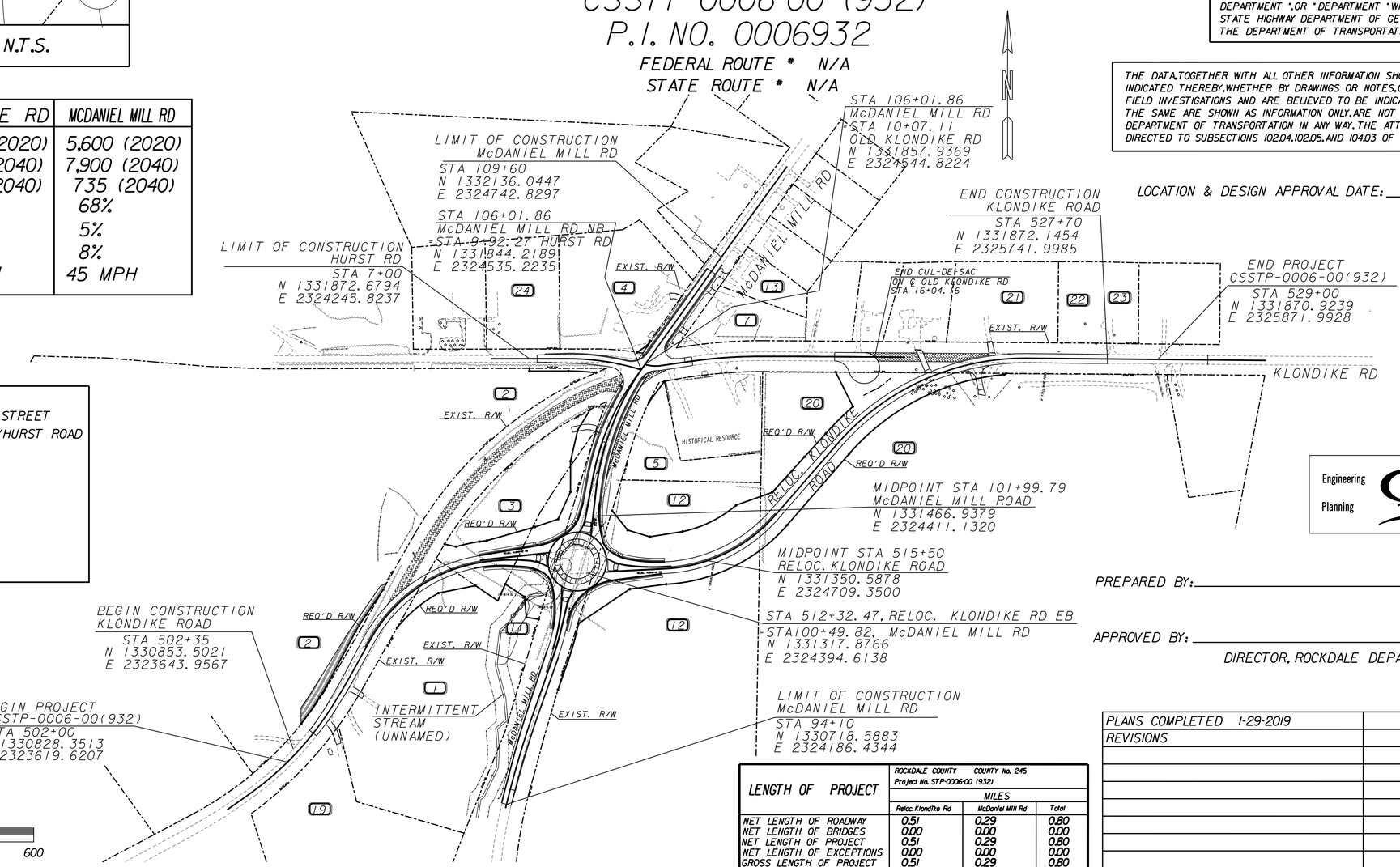
FUNCTIONAL CLASS:
MCDANIEL MILL RD - URBAN COLLECTOR STREET
KLONDIKE RD EAST OF MCDANIEL MILL/HURST ROAD - URBAN MINOR ARTERIAL STREET

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

PROJECT DESIGNATION: EXEMPT

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

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



LENGTH OF PROJECT	ROCKDALE COUNTY COUNTY No. 245 Project No. STP-0006-00 (932) MILES		
	Reloc. Klondike Rd	McDaniel Mill Rd	Total
NET LENGTH OF ROADWAY	0.51	0.29	0.80
NET LENGTH OF BRIDGES	0.00	0.00	0.00
NET LENGTH OF PROJECT	0.51	0.29	0.80
NET LENGTH OF EXCEPTIONS	0.00	0.00	0.00
GROSS LENGTH OF PROJECT	0.51	0.29	0.80

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", GEORGIA STATE 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.

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.

LOCATION & DESIGN APPROVAL DATE: February 10, 2017

GEORGIA REGISTERED No. 15268 PROFESSIONAL ENGINEER JEFFREY W. DYER

Engineering
Planning
QK4
140 Technology Parkway NW,
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

PREPARED BY: _____

APPROVED BY: _____

DIRECTOR, ROCKDALE DEPARTMENT OF TRANSPORTATION

PLANS COMPLETED 1-29-2019	
REVISIONS	

3/1/2007

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

DWG NO.	DESCRIPTION
1-0001	COVER SHEET
2-0001	INDEX SHEET
3-0001	REVISION SUMMARY SHEET
4-0001 to 4-0002	GENERAL NOTES
5-0001 to 5-0004	TYPICAL SECTIONS
6-0001 to 6-0003	SUMMARY OF QUANTITIES
7-0001	QUANTITES REQUIRED BY AMENDMENT
8-0001	QUANTITIES REQUIRED ON CONSTRUCTION
10-0001 to 10-0006	TRAFFIC DIAGRAM
11-0001 to 11-0006	CONSTRUCTION LAYOUT PLAN
13-0001 to 13-0012	CONSTRUCTION PLAN
15-0001 to 15-0010	MAINLINE PROFILE
16-0001 to 16-0002	CROSSROAD PROFILE
17-0001 to 17-0002	DRIVEWAY PROFILE
18-0001 to 18-0003	SPECIAL GRADING
19-0001 to 19-0012	CONSTRUCTION STAGING PLANS - STAGE 1
19-0013 to 19-0021	CONSTRUCTION STAGING PLANS - STAGE 2
19-0022 to 19-0028	CONSTRUCTION STAGING PLANS - STAGE 3
20-0001	DETOUR PLAN
21-0001 TO 21-0002	DRAINAGE AREA MAP
22-0001 to 22-0005	DRAINAGE PROFILES
23-0001 to 23-0033	CROSS SECTIONS
24-0000 to 24-0012	UTILITY PLANS
25-0001 to 25-0012	LIGHTING PLANS (TO BE ADDED)
26-0001 to 26-0013	SIGNING & MARKING PLANS
38-0001 to 38-0002	SPECIAL CONSTRUCTION DETAIL - RAISED ISLAND DETAILS
(40) GEORGIA CONSTRUCTION DETAILS	
40-0001	A-1 DRIVEWAYS WITH TAPERED ENTRANCES, CONCRETE VALLEY GUTTERS (07/2011)
40-0002	A-2 CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6" OR 8" CONC VALLEY GUTTER AT DRIVE PLACING PAVEMENT
	ADJACENT TO GUTTER ADDITONAL PAVING AT STREET INTERSECTION 4' CORRUGATED CONCRETE MEDIAN (07/2011)
40-0003	A-3 CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS (09/2016)
40-0004	A-4 DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS (06/2009)
40-0005	D-4 DITCH DROP INLET AND FABRICATED SAFETY GRATE AND WIER OPENINGS (10/2000)
40-0006	D-7 BERM DITCHES, SIDE DITCHES, SURFACE DITCHES (07/1980)
40-0007	D-9 CONCRETE FLUMES TYPES "A" AND "B" (10/1983)
40-0008	D-10 4" CONCRETE DITCH PAVING DETALS & QUANTITIES (01/1988)
40-0009	P-7 PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT (11/2011)
40-0010	RA-1 ROUNDABOUT LANDSCAPING DETAILS (10/2011)
40-0011	RA-2 ROUNDABOUT TYPICAL SECTION ASPHALTIC CONCRETE CIRCULATORY ROADWAY (01/2012)
40-0012	T01 SIGN PLATES (01/2000)
40-0013	T03A TYPE 7, 8 & 9 SQUARE TUBE POST INSTALLATION DETAIL (07/2002)
40-0014	T05A DETAIL OF REGULATORY SIGNS (SH 1 OF 2) (01/2003)
40-0015	T05B DETAIL OF REGULATORY SIGNS (SH 2 OF 2) (01/2000)
40-0016	T05C DETAIL OF WARNING SIGNS (01/2000)
40-0017	T11A DETAIL OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY (09/2016)
40-0018	T12A DETAIL OF PAVEMENT MARKING ARROW LOCATION (01/2000)
40-0019	T12B DETAIL OF PAVEMENT MARKINGS - ARROWS (04/2000)
40-0020	T13A DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2) (09/2016)
40-0021	T14 DETAILS OF PAVEMENT MARKING HATCHING (11/2008)
40-0022	T15A DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY (09/2016)
40-0023	T15C DETAILS OF RAISED PAVEMENT MARKERS (09/2011)
(41) GEORGIA STANDARD DRAWINGS	
41-0001	1011A BRICK MANHOLES (10/1981)
41-0002	1011A PRECAST REINFORCED CONCRETE MANHOLE (06/1975)
41-0003	1033D CATCH BASINS - FOR USE WITH 6" OR 8" HT. CURB AND GUTTER (08/1982)
41-0004	1033DP PRECAST CATCH BASINS - FOR USE WITH 6" OR 8" HT. CURB AND GUTTER (09/1982)
41-0005	1034D CATCH BASINS - FOR USE WITH 6" OR 8" HT. CURB AND GUTTER IN SAGS AND LOW POINTS (09/1982)

DWG NO.	DESCRIPTION
(41) GEORGIA STANDARD DRAWINGS (CONTINUED)	
41-0006	1034DP PRECAST CATCH BASINS - FOR USE WITH 6" OR 8" HT. CURB AND GUTTER IN SAGS AND LOW POINTS (09/1982)
41-0007	1120 FLARED END SECTIONS FOR PIPES (06/2006)
41-0008	1122-1 SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE-OR STORM DRAIN PIPE PARALLEL TO MAINLINE) SHEET 1 OF 3 (01/2005)
41-0009	1122-2 SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE-OR STORM DRAIN PIPE PARALLEL TO MAINLINE) SHEET 2 OF 3 (01/2005)
41-0010	1122-3 SAFETY END SECTION (CONCRETE) (FOR SIDE DRAIN PIPE-OR STORM DRAIN PIPE PARALLEL TO MAINLINE) SHEET 3 OF 3 (01/2005)
41-0011	1125 INLET HEADWALL - OUTLET HEADWALL (10/1999)
41-0012	4000W GUARDRAIL WARRANT GUIDES (01/2016)
41-0013	4380 "W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT (01/2016)
41-0014	4381 POST AND OFFSET BLOCKS FOR "W" (01/2016)
41-0015	4383 GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT (08/2011)
41-0016	4384 TYPE 12 31 INCH GUARDRAIL HEIGHT (01/2016)
41-0017	4388 GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO THE ROADWAY) 31 INCH GUARDRAIL HEIGHT (01/2016)
41-0018	9013 CONCRETE SPILLWAYS (TYPICAL USE ALONG ROADWAY AT END OF CURB) (02/1981)
41-0019	9031L-2 DETAILS OF: CATCH BASIN MODIFIED FOR DOUBLE GRATE, DROP INLET MODIFIED FOR DOUBLE GRATE, CONCRETE SPRING BOX, CONCRETE STEPS, CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT CAPPING EXISTING DROP INLET (6/1998)
41-0020	9032B CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS (11/2011)
41-0021	9100 TRAFFIC CONTROL GENERAL NOTES, STANDARD, LEGEND & MISCELLANEOUS DETAILS (03/2006)
41-0022	9102 TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY (03/2006)
(44) WATER LINE RELOCATION PLANS	
44-0001 TO 44-0012	WATER LINE RELOCATION PLANS
44-0013	WATER LINE RELOCATION PLAN NOTES
44-0014	WATER LINE RELOCATION PLAN DETAILS
EROSION CONTROL PLANS	
50-0001	EROSION CONTROL COVER SHEET
51-0001 TO 51-0004	ESPC GENERAL NOTES
52-0001	EC-L1 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 1 OF 7) (03-2017)
52-0002	EC-L2 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 2 OF 7) (11-2018)
52-0003	EC-L3 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 3 OF 7) (03-2017)
52-0004	EC-L4 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 4 OF 7) (03-2017)
52-0005	EC-L5 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 5 OF 7) (03-2017)
52-0006	EC-L6 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 6 OF 7) (11-2018)
52-0007	EC-L7 EROSION CONTROL LEGENDS AND UNIFORM CODE SHEET (SHEET 7 OF 7) (03-2017)
53-0001 to 53-0002	EROSION CONTROL DRAINAGE AREA MAP
54-0001 TO 54-0060	BMP LOCATION DETAILS
55-0001	EROSION CONTROL WATERSHED MAP AND SITE MONITORING
(56) EROSION CONTROL CONSTRUCTION DETAILS	
56-0001	D-24A TEMPORARY SILT FENCE - SHEET 1 OF 4 (01/2011)
56-0002	D-24B TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER - SHEET 2 OF 4 (01/2011)
56-0003	D-24C TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS - SHEET 3 OF 4 (01/2011)
56-0004	D-24D TEMPORARY SILT FENCE FABRIC CHECK DAM - SHEET 4 OF 4 (07/2015)
56-0005	D-35 PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MAT) INSTALLATION ON DITCHES (01/2011)
56-0006	D-41 CONSTRUCTION EXIT (04/2018)
56-0007	D-42 INLET SEDIMENTATION TRAPS (05/2008)
56-0008	D-43 ROCK FILTER DAM (04/2016)
56-0009	D-53 ROCK OUTLET TEMPORARY SEDIMENT TRAP (04/2016)
56-0010	D-54 SOD INSTALLATION (04/2016)
56-0011	D-55A RIP RAP OUTLET PROTECTION - SHEET 1 OF 2 (04/2016)
56-0012	D-55B RIP RAP OUTLET PROTECTION - SHEET 2 OF 2 (04/2016)

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

INDEX

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 2-0001

3//2007 GPLN

\Dgn\0006932\N01.dgn 1/29/2019 7:57:04 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

$REF704
$REF545
$REF705
$REF535
$REF534

$REF704
$REF534
$REF535
$REF705
$REF545
$REF704

$REF704
$REF534
$REF535
$REF705
$REF545
$REF704

3/1/2007 GPLN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

REVISION SUMMARY

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 3-0001

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

GENERAL NOTES

1. A N.O.I. (NOTICE OF INTENT) IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 9.3 ACRES. TOTAL NET GAIN OF IMPERVIOS AREA IS 1.9 ACRES, WHICH IS 14% OF TOTAL PROJECT AREA.

2. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:

   CONCRETE RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK

   CONCRETE COMMERCIAL - DRIVEWAY CONCRETE, 8" THICK

   ASPHALT RESIDENTIAL -
   - RECYCLED ASPHALT CONC. 9.5mm SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME 138 #/Sq Yd.
   - 6" GRADED AGGREGATE BASE

   ASPHALT COMMERCIAL -
   - RECYCLED ASPHALT CONC. 9.5mm SUPERPAVE, TYPE II, GP 2 ONLY, 138 #/Sq Yd INCL BITUM MATL & H LIME
   - RECYCLED ASPH. CONC. 19mm SUPERPAVE GP 1 OR 2, INCL BITUM MATL & H LIME,, 220 #/Sq Yd.
   - 6" GRADED AGGREGATE BASE

3. ALL EXISTING PIPE SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

4. THE CONTRACTOR SHALL ENSURE THE POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO PLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR RE-GRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURREDTO COMPLY WITH THIS REQUIREMENT.

5. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:
   ALL EXISTING UTILITY FACILITIES WERE PROVIDED VIA OWNER MARK-UPS.

UTILITY OWNER	SERVICE
ATLANTA GAS LIGHT COMPANY (SOUTHERN COMPANY GAS)	GAS
AT&T	TELEPHONE
COMCAST	CABLE
ROCKDALE COUNTY WATER RESOURCES *	WATER & SEWER
SNAPPING SHOALS EMC	POWER

* WATER LINE RELOCATION PLANS (44-SERIES) ARE INCLUDED IN THIS PLAN SET.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

NOTE:
LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE. THEREFORE IT IS THE RESPONSIBILITY OF THE CONTRACTOR WORKING ON THE SITE TO CONTACT THE UTILITY COMPANIES FOR FIELD LOCATION OF THEIR UTLITY PRIOR TO BEGINNING ANY CONSTRUCTION.

pH: 6.1
RESISTANCE: 10001

PIPE CULVERT MATERIAL ALTERNATES

PROJECT NO.: CSSTP-0006-00(932) COUNTY: ROCKDALE P.I. NO.: 0006932

TYPE OF INSTALLATION			PIPE TYPE: CONCRETE	STEEL			ALUMINUM	THERMOPLASTIC				
			REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTH LINED HPDE TYPE "S" AASHTO M-330	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M-330	PVC CORRUGATED SMOOTH INTERIOR AASHTO F-949	PVC Profile Wall Drain Pipe AASHTO M-304
STORM DRAIN	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X									
		NON INTERSTATE	X	X		X	X		X	X	X	X
	TRAVEL BEARING (INSIDE ROADBED) GRADE 10%	ADT < 1,500	X	X		X	X		X	X	X	X
		1,500 < ADT < 5,000	X	X		X	X		X	X	X	X
		5,000 < ADT < 15,000	X						X	X	X	X
		ADT > 15,000 & INTERSTATES	X									
	GRADE > 10%					X			X	X	X	X
SIDE DRAIN			X	X	X	X	X		X	X	X	X
PERMANENT SLOPE DRAIN				X	X	X	X		X	X	X	X
PERFORATED UNDERDRAIN				X	X		X	X	X	X	X	X

NOTES:
1. Allowable materials are indicated by an "X".
2. Structural,installation,fill helgh and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications.
3. The Contractor shall provise additional storm sewer capacity calculations if a pipe material other than concrete is used.
4. Pipe used under mechanically stabilized earth (MSE) walls,within MSE wall backfill,or within five feet of an MSE wall face shall be Class V Concrete Pipe.

6. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT-OF-WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFULL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

7. IF STRUCTURES, TREES, SHRUBS, AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS, BUT OUTSIDE THE LIMITS OF CONSTRUCTION ARE DISTURBED, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING IN LIKENESS OR IN KIND AT HIS EXPENSE.

8. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

9. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO INSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINT, WHEN REQURED, SHALL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING CONCRETE PAVEMENT.

10. WHERE EXISTING PAVEMENT MARKINGS AND LINES ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE ENGINEER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING SIGNS OR MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERTY STRIPED.

11. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, PIPES AND CULVERTS THAT ARE TO BE RETAINED BEFORE ANY WORK BEGINS AND AT THE TIME OF COMPLETION OF THE PROJECT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR GRADING-COMPLETE.

12. ALL TREE PLANTING AND LANDSCAPING SHALL CONFORM WITH THE REQUIREMENTS OF THE ROCKDALE COUNTY TREE ORDINANCE AND THE ROCKDALE COUNTY PLANT PALLETTE RESOLUTION.

13. THIS PROJECT USES A DETOUR. THE CONTRACTOR SHALL CONTACT IN WRITING THE APPROPRIATE LOCAL MUNICIPALITY A MAXIMUM OF 30 DAYS PRIOR TO ROAD CLOSURE (A COPY MUST ALSO BE SENT TO ROCKDALE COUNTY DOT) AS WELL AS PROVIDE CALENDER DAYS OF DETOUR DURATION.

14. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT, SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 318 OF THE GDOT STANDARD SPECIFICATIONS IS MODIFIED TO PERMIT TRUCK DUMPING ON UNPREPARED WET, MUDDY SUBGRADE. SECTION 318 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHER RUN STONE AS DESCRIBED IN SECTION 318.2. THE CONTRACTOR WILL HAVE TO USE THE FOLLOWING MATERIALS:

   a. GRADED AGGREGATE, ARTICLE 815.01
   b. COARSE AGGREGATE, SIZE 467, ARTICLE 800.1
   c. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.2
   d. CRUSHED STONE, ARTICLE 806.2

   THE COST FOR THESE MATERIALS SHALL BE INCLUDED IN THE OVERALL COST FOR TRAFFIC CONTROL.

15. ALL ADA RAMPS AND SIDEWALK WITHIN THE INTERSECTION RADII IS TO BE CONSTRUCTED OF 8" CONCRETE. IT WILL BE PAID FOR AS CONCRETE SIDEWALK, 8 INCHES, IN SQUARE YARDS.

16. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF STAGING, EASEMENT, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC) OCCUR UNDER THE DRIP LINE OF DESIRED TREES THAT WIL REMAIN IN THE RIGHT-OF-WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION

17. FOR DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) OR DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION), DO NOT USE ANY SPECIES OR CULTIVARS OF SPECIES THAT ARE ON THE GDOT LIST OF NON-NATIVE INVASIVE PLANTS (6755-9, TABE 5.1), OR THE GEORGIA EXOTIC PEST COUNCIL'S NON-NATIVE INVASIVE LIST IN CATEGORY 1, 2, OR 3. CATEGORY 4 PLANTS SHOULD BE AVOIDED IF POSSIBLE.

18. FOR PERMANENT GRASSING/EROSION CONTROL IN STEAMS AND BUFFER AREAS AT THE FOLLOWING LOCATIONS: EPHEMERAL CHANNEL 1 (STA 100+50 TO 101+50 LT), INTERMITTENT STREAM 2 & BUFFER (STA 97+50 TO 100+50 LT), WETLAND 3 (97+50 TO 99+50 LT), AND PERENNIAL STREAM 4 & BUFFER (STA 94+00 TO 97+50 LT) USE RIPARIAN SEED MIX FROM GDOT SPECIFICATION SECTION 700 - GRASSING. (PER GDOT SPEC 700, NO LIME OR FERTILIZER SHOULD BE APPLIED IN STREAM BUFFER AREAS, AND ONLY WHEAT STRAW SHALL BE USED AS MULCH.) FOR ALL OTHER PERMANENT GRASSING/EROSION CONTROL, USE NATIVE GRASS SEEDING TABLE 3 AND/OR HERBACEOUS PLANT SEEDING TABLE 4 FROM GDOT SPECIFICATION 700 - GRASSING WHERE POSSIBLE.

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
SHEET 1 OF 2
KLONDIKE RD/McDANIEL MILL RD/HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 4-0001

3/1/2007 GPLN

...\Dgn\0009320\N01.dgn 1/29/2019 8:39:37 AM

GENERAL NOTES FOR SIGNING

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 STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION LOCATIONS 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 OFFICE OF TRAFFIC OPERATIONS.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT THE 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 INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF THE PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF THE 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).

4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARDRAIL 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 ⅛ 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 ⅜ 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 ⅛ 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.

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 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUND EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).

10. TYPE 11 (VERY HIGH INTENSITY) YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

11. TYPE 11 (VERY HIGH INTENSITY) FLUROESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS PLACED WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.

12. A ½ INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL ⅜ DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES 'D' LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATION OF DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS ON THIS PROJECT, IF ANY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE ROCKDALE COUNTY DEPT. OF TRANSPORTATION, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

ENVIRONMENTAL RESOURCES IMPACT TABLE

These resources and the restrictiosn listed are governed by state and federal law.

RESOURCE NAME (FROM SECTION A OF THE ECT)	LOCATION			PERMITTED CONSTRUCTION ACTIVITY (FROM SECTION A OF THE ECT)	SPECIAL PROVISION ? (FROM SECTION B OF THE ECT)	COMMENTS (FROM SECTION C OF THE ECT, COMMENTS ONLY)
	BEGINNING STA	ENDING STA	SIDE			
New Hope Baptist Church	104+00	106+00	LT	NO IMPACT	N/A	The Contractor shall ensure that no constuction related activities other than those shown on the approved plans, including the use of easements, staging, construction, vehicular use, borror or waste activities, and trailer placement shall occur within the eligible National Register resource boundary.
Ephemeral Channel 1	100+50	101+50	LT	0.004 acre of permanent fill impact	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
Intermittent Stream 2	97+50	100+50	LT	160 linear feet/0.008 acre of permanent fill and 12 linear feet/0.001 acre of permanent rip rap	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
Intermittent Stream 2 Buffer	97+50	100+50	LT	Activities occur within 50-foot drainage structure exemption area	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
Wetland 3	97+50	99+50	LT	0.007 acre of permanent fill and 0.003 acre of permanent clearing	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
Perennial Stream 4	94+00	97+50	LT	NO IMPACT	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
Perennial Stream 4 Buffer	94+00	97+50	LT	1,486 square feet/240 linear feet of non-exempt buffer impacts	N/A	Include the following note on all plan sheets with affected resources delienated as Environmentally Sensitive Areas (ESAs): 'See General Notes 'Environmental Resource Impact Table' for construction restrictions.'
404 Permits and Variances (from Section D of the ECT)	A Nationwide Permit 23 shall be obtained from USACE prior to commencement of construction activities due to intermittent stream impacts of 172 linear feet, and wetland and ephemeral channel impacts of 0.014 acre.					
NOI for NPDES	Rockdale County and the Construction Contractor shall submit a NOI to NPDES for General Permit following award of the contract but immediately prior to construction.					
Buffer Variances	Buffer Variance required for impacts to the buffer of Perennial stream 4					

OTHER COMMENTS OR REQUIREMENTS

MITIGATION CREDITS

1. 720 stream credits would be withdrawn from a USACE approved mitigation bank serving HUC 03070103 for 172 linear feet of impacts. Credits would be obtained by Rockdale County.
2. 0.0922 wetland credit would be withdrawn from a USACE approved mitigation bank serving HUC 03070103 for 0.014 acre of permanent impacts to wetlands and ephemeral channels. Credits would be obtained by Rockdale County.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

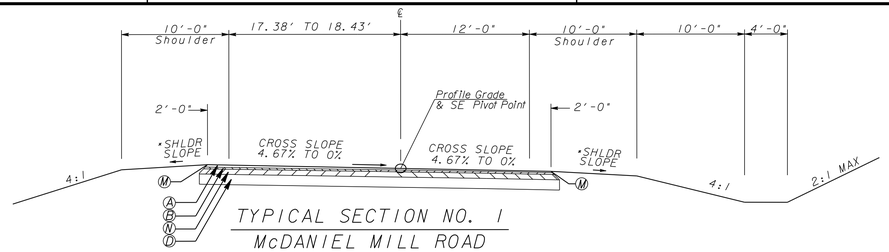
GENERAL NOTES
SHEET 2 OF 2

KLONDIKE RD/MC DANIEL MILL RD/HURST RD INTERSECTION IMPROVEMENTS

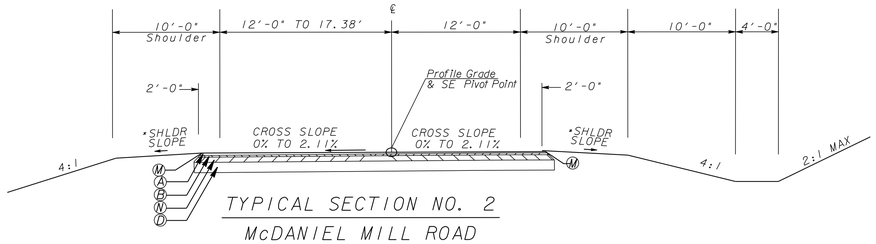
DRAWING No. 4-0002

3/11/2007 GPLN

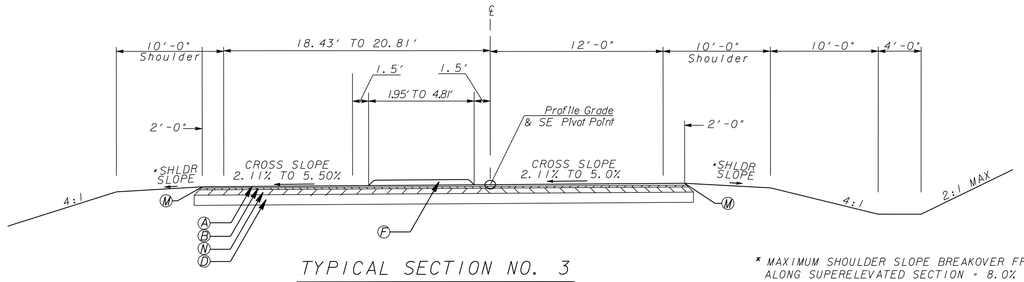
DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



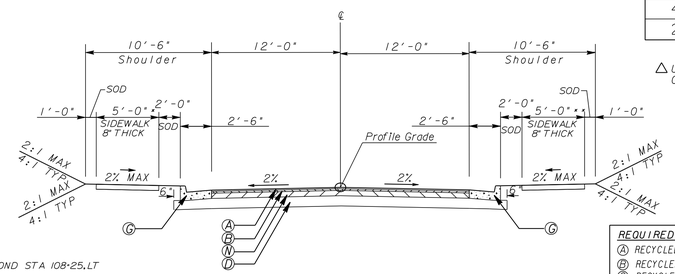
TYPICAL SECTION NO. 1
McDANIEL MILL ROAD
94+50 TO 97+67.5



TYPICAL SECTION NO. 2
McDANIEL MILL ROAD
97+23.21 TO 97+67.5



TYPICAL SECTION NO. 3
McDANIEL MILL ROAD
97+67.5 TO 98+84.04



TYPICAL SECTION NO. 4
McDANIEL MILL ROAD
106+18.42 TO 109+15 ***

* NO SIDEWALK BEYOND STA 108+25.LT

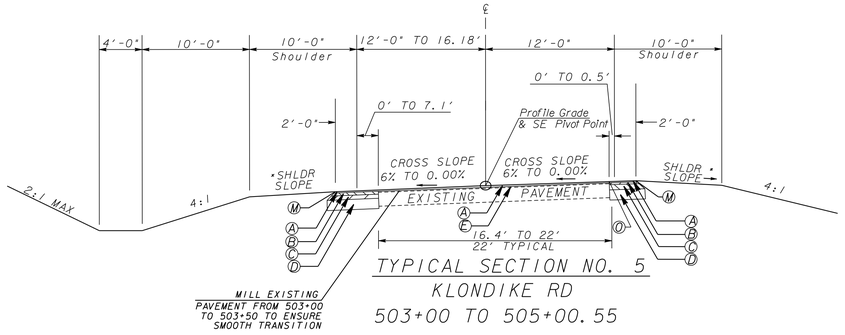
** NO SIDEWALK BEYOND STA 108+87.RT

*** FULL WIDTH CONSTR.ENDS AT STA 109+15. CURB & GUTTER/DRIVEWAY/URBAN SHOULDER ON RIGHT SIDE CONTINUES TO STA 109+45. SEE 13-SERIES DRAWING AND CROSS SECTIONS.

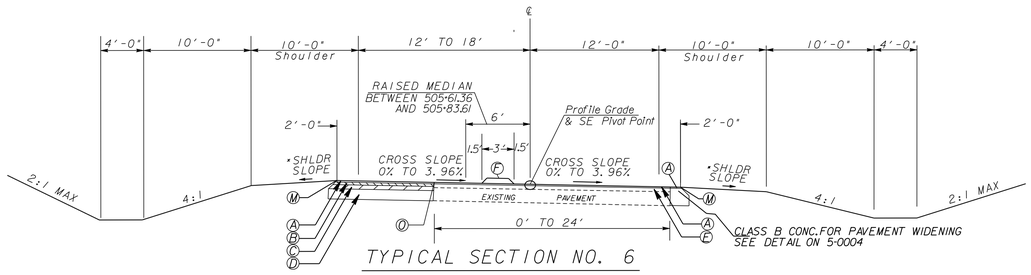
* MAXIMUM SHOULDER SLOPE BREAKOVER FROM PAVEMENT ALONG SUPERELEVATED SECTION = 8.0%

SLOPE CONTROLS △		
SLOPE	CUT	FILL
4:1	0-6'	ALL
2:1	OVER 10'	

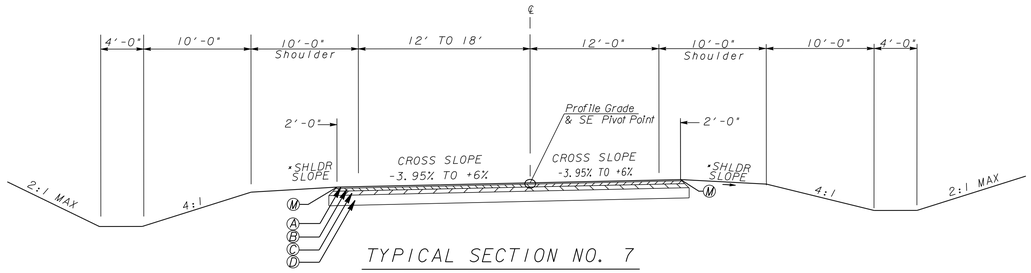
△ UNLESS SHOWN OTHERWISE ON CROSS SECTIONS.



TYPICAL SECTION NO. 5
KLONDIKE RD
503+00 TO 505+00.55



TYPICAL SECTION NO. 6
RELOC. KLONDIKE ROAD
505+00.55 TO 505+83.49



TYPICAL SECTION NO. 7
RELOC. KLONDIKE ROAD
517+61.38 TO 520+31.38

REQUIRED PAVEMENT

- (A) RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME, 138 LB/SY
- (B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
- (C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 330 LB/SY
- (D) GRADED AGGREGATE BASE, 12"
- (N) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 440 LB/SY
- (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQUIRED
- (F) 6 IN. CLASS "B" CONCRETE MEDIAN, WITH TYPE 7 FACES
- (G) 8"X30" CONC. CURB AND GUTTER, GA STD 9032B, TYPE 2
- (M) SAFETY END SECTION, SEE DETAIL P-7
- (O) PAVEMENT REINFORCMENT FABRIC, 18" WIDE

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

NOT TO SCALE

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

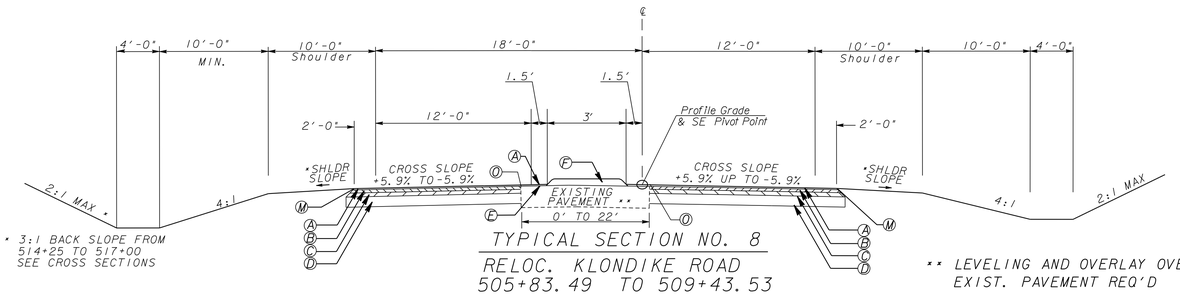
TYPICAL SECTIONS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 5-0001

3/1/2007 GPLN

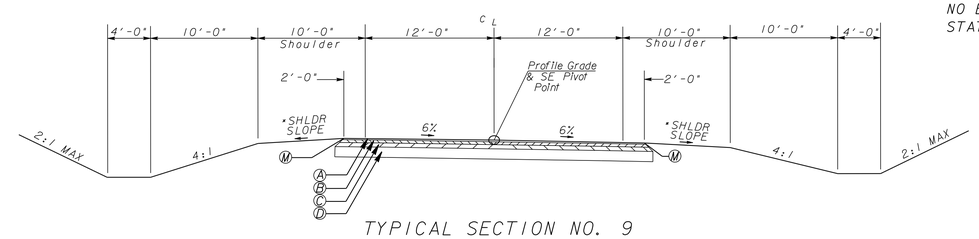
DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



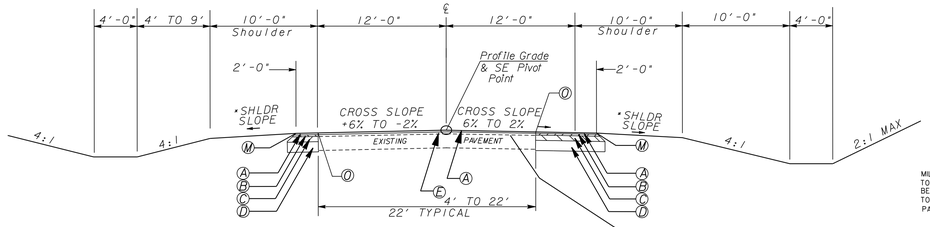
TYPICAL SECTION NO. 8
RELOC. KLONDIKE ROAD
505+83.49 TO 509+43.53
514+35.65** TO 517+61.38

** RURAL SHOULDER EB BEGINS AT 514+26.2

** LEVELING AND OVERLAY OVER EXIST. PAVEMENT REQ'D TO 507+40+-, SEE DWG 13-0002 FOR EXTENT
NO EXISTING PAVEMENT FOR SECOND STATION RANGE.

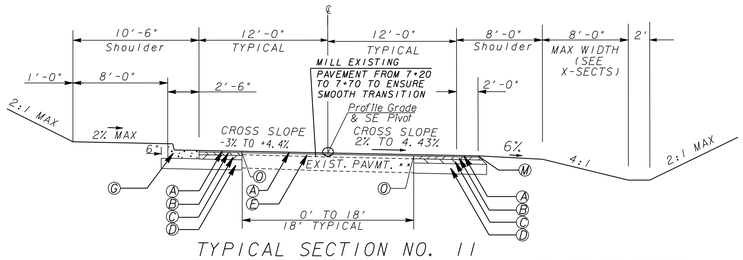


TYPICAL SECTION NO. 9
RELOC. KLONDIKE ROAD
520+31.38 TO 524+00



TYPICAL SECTION NO. 10
KLONDIKE ROAD
524+00 TO 527+70

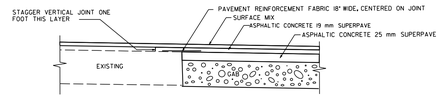
MILL EXISTING PAVEMENT FROM 527+20 TO 527+70 TO ENSURE SMOOTH TRANSITION



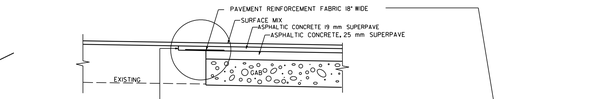
TYPICAL SECTION NO. 11
HURST ROAD
7+20 TO 9+80

** NO EXISTING PAVEMENT EAST OF STA 9+00

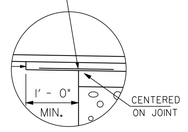
TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE

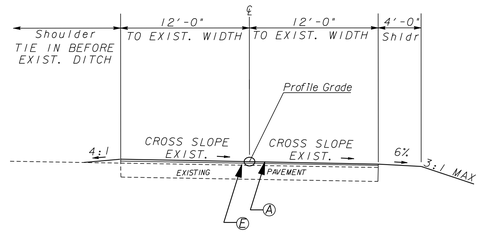


TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



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





TYPICAL SECTION NO. 12
OLD KLONDIKE ROAD
10+30 TO 11+30.69

SEE TYPICAL SECTION 15 FOR OLD KLONDIKE RD CUL-DE SAC

* MAXIMUM SHOULDER SLOPE BREAKOVER FROM PAVEMENT ALONG SUPERELEVATED SECTION = 8.0%

SLOPE	CONTROLS △	
SLOPE	CUT	FILL
4:1	0-6'	ALL
2:1	OVER 10'	

△ UNLESS SHOWN OTHERWISE ON CROSS SECTIONS.

ALLOWABLE RANGES TABLE

FOR THIS PROJECT. CROSS SLOPES THAT ARE ADJUSTED TO 'BEST FIT' EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
1.5 % - MINIMUM	1.5 % - MINIMUM
2.0 % - DESIRABLE	2.0 % - DESIRABLE
02.5 % - MAXIMUM	2.5 % - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD. WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

REQUIRED PAVEMENT

- (A) RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE II, GP 2 ONLY. INCL BITUM MATL & H LIME. 138 LB/SY
- (B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE. GP 1 OR 2. INCL BITUM MATL & H LIME. 220 LB/SY
- (C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE. GP 1 OR 2. INCL BITUM MATL & H LIME. 330 LB/SY
- (D) GRADED AGGREGATE BASE. 12"
- (E) RECYCLED ASPH CONC LEVELING. INCL BITUM MATL & H LIME. AS REQUIRED
- (F) 6 IN. CLASS "B" CONCRETE MEDIAN. WITH TYPE 7 FACES
- (G) 8"X30" CONC. CURB AND GUTTER. GA STD 9032B. TYPE 2
- (M) SAFETY END SECTION. SEE DETAIL P-7
- (O) PAVEMENT REINFORCMENT FABRIC. 18" WIDE

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

NOT TO SCALE

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

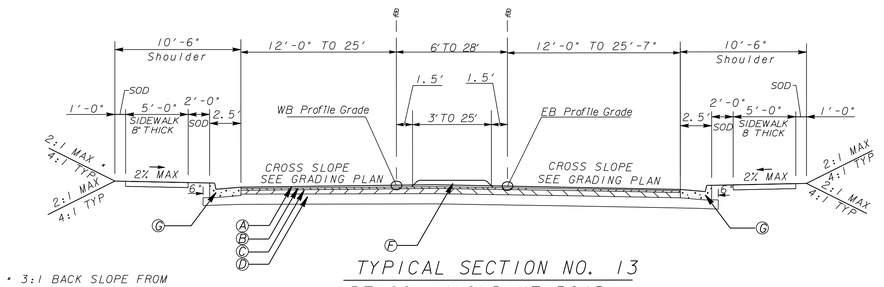
TYPICAL SECTIONS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 5-0002

3/1/2007 GPLN

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



* 3:1 BACK SLOPE FROM 514+25 TO 517+00 SEE CROSS SECTIONS

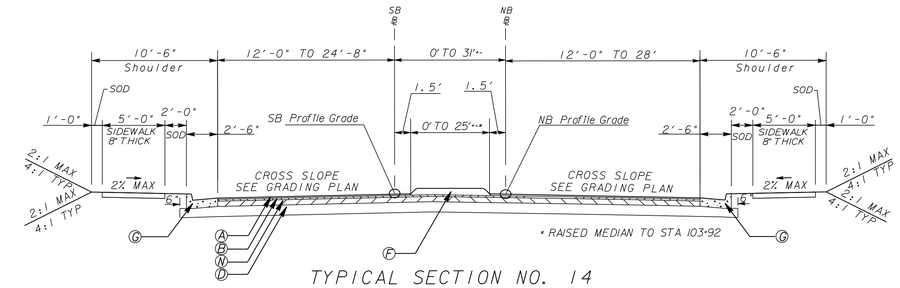
TYPICAL SECTION NO. 13

RELOC. KLONDIKE ROAD

509+43.53 TO 510+76.22 EB
609+48.93 TO 610+88.2 WB

513+17 TO 514+35.65 EB
613+34.47 TO 614+59.44** WB

** RURAL SHOULDER WB FROM 614+43.47 TO 614+59.44



* RAISED MEDIAN TO STA 103+92

TYPICAL SECTION NO. 14

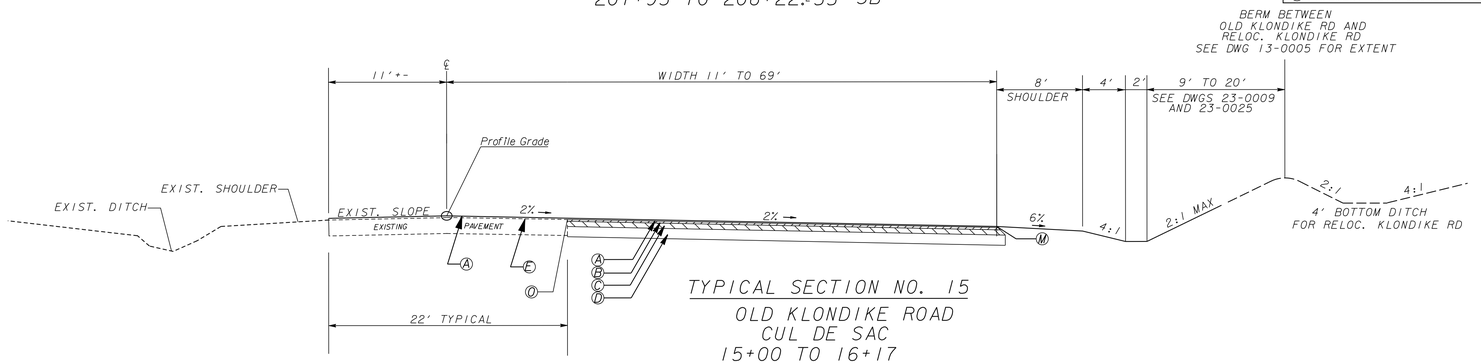
McDANIEL MILL ROAD

98+84.04 TO 99+48 NB
198+83.4 TO 199+47 SB

101+87 TO 106+18.42 NB
201+93 TO 206+22.55 SB

REQUIRED PAVEMENT

- (A) RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE II, GP 2 ONLY. INCL BITUM MATL & H LIME, 138 LB/SY
- (B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2. INCL BITUM MATL & H LIME, 220 LB/SY
- (C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2. INCL BITUM MATL & H LIME, 330 LB/SY
- (D) GRADED AGGREGATE BASE, 12"
- (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME, AS REQUIRED
- (F) 6 IN. CLASS "B" CONCRETE MEDIAN, WITH TYPE 7 FACES
- (G) 8"X30" CONC. CURB AND GUTTER, GA STD 9032B, TYPE 2
- (W) SAFETY END SECTION, SEE DETAIL P-7
- (N) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 440 LB/SY
- (O) PAVEMENT REINFORCMENT FABRIC, 18" WIDE



TYPICAL SECTION NO. 15

OLD KLONDIKE ROAD
CUL DE SAC
15+00 TO 16+17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

NOT TO SCALE

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

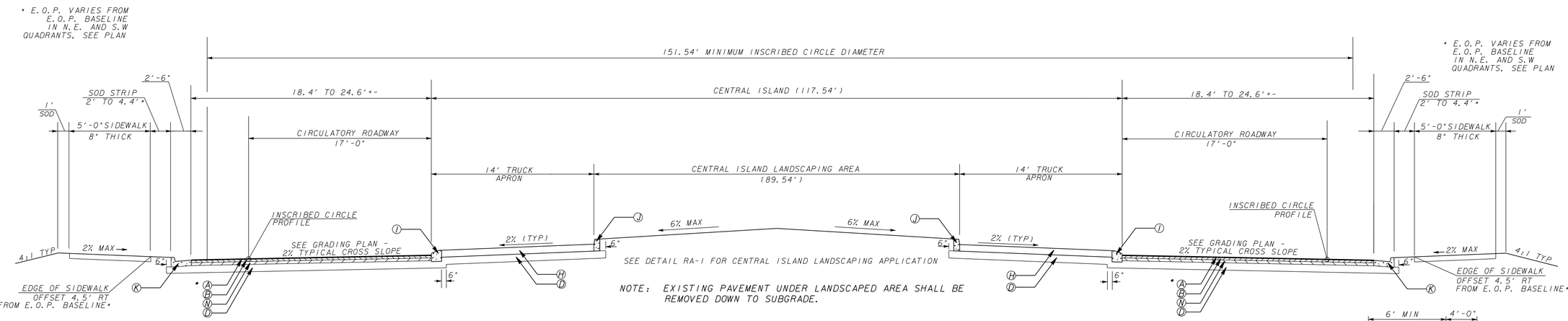
TYPICAL SECTIONS

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 5-0003

3/1/2007 GPLN

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



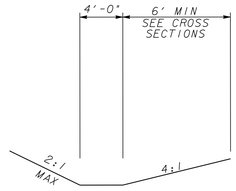
NOTE: EXISTING PAVEMENT UNDER LANDSCAPED AREA SHALL BE REMOVED DOWN TO SUBGRADE.

TYPICAL SECTION #16

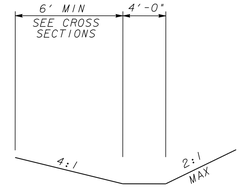
McDANIEL MILL RD / RELOC. KLONDIKE ROAD ROUNDABOUT

NOTE: EXISTING PAVEMENT TO BE REMOVED WITHIN ROUNDABOUT AREA

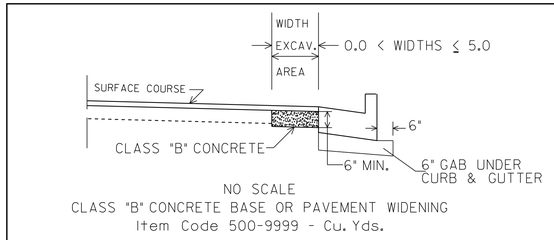
* NOTE:
USE McDANIEL MILL RD PAVEMENT SECTION FOR ROUNDABOUT AND FOR RELOC. KLONDIKE RD APPROACHES BETWEEN STA 511+50 & 512+85 RT AND STA 611+22 & STA 612+93 LT



* 4-FT BOTTOM DITCH AT ROUNDABOUT QUADRANTS



* 4-FT BOTTOM DITCH AT ROUNDABOUT QUADRANTS



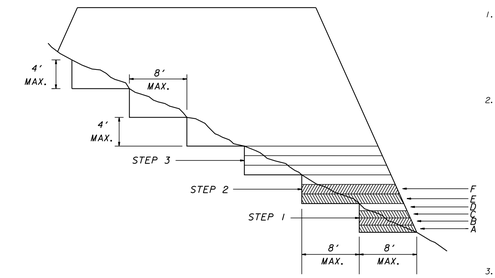
NO SCALE

CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

See plans for details of curb and gutter construction.



BENCHING DETAIL
N. T. S.

NOTES:

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE. (SEE DIAGRAM AT LEFT)
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT ½ THE WIDTH OF THE TYPICAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER (E) IS PLACED. THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF AN 8 FOOT HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET, ALLOWING THE HORIZONTAL DISTANCE TO VARY.
3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

REQUIRED PAVEMENT

- (A) RECYCLED ASPHALTIC CONCRETE 9.5 mm SUPERPAVE, TYPE II,GP 2 ONLY, INCL BITUM MATL & H LIME, 138 LB/SY
- (B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
- (C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 330 LB/SY
- (D) GRADED AGGREGATE BASE, 12"
- (N) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 440 LB/SY
- (H) 10 IN. PLAIN PC CONCRETE PAVEMENT FOR TRUCK APRON, STAMPED AND COLORED, INSIGNIA RED, FED. COLOR CODE 31136
- (I) 4 IN. CONCRETE HEADER CURB, TYPE 9, MOUNTABLE CURB
- (J) 6 IN. CONCRETE HEADER CURB, TYPE 7
- (K) 8"X30" CONC. CURB AND GUTTER, GA STD 9032B, TYPE 2

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

NOT TO SCALE

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 5-0004

3/1/2007 GPLN

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

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

ROADWAY SURFACING QUANTITIES

LOCATION	GR AGGR BASE CRS, INCL MATL (TN)	RECYCLED ASPH CONC LEVELING INCL BITUM MAT'L & H LIME (TN)	RECYCLED ASPH CONC 9.5mm SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MAT'L AND H LIME (TN)	RECYCLED ASPH CONC 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MAT'L AND H LIME (TN)	RECYCLED ASPH CONC 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MAT'L AND H LIME (TN)	TACK COAT (GL)	MILL ASPH CONC PVMT, VARB DEPTH* (SY)	PLAIN PC CONC PAVMT, CL 3 CONC, 10 INCH THK (SY)	DRIVEWAY CONCRETE, 6 IN THK (SY)	PVMT REF FAB STRIPS, TP 2, 18 IN WIDTH (LF)	CONC VALLEY GUTTER, 6 IN (SY)	CLASS B CONC, BASE OR PVMT WIDENING (CY)
KLONDIKE/RELOC. KLONDIKE RD	4250	310	590	708	1064	1298	450	0	0	1436	0	48
McDANIEL MILL RD	4240	0	440	706	1414	1284	0	0	0	0	0	0
HURST RD	300	62	56	50	74	164	50	0	0	184	0	7
OLD KLONDIKE RD	310	98	73	52	78	210	0	0	0	192	0	0
AREA UNDER CURB & GUTTER	310	0	0	0	0	0	0	0	0	0	0	0
ROUNDABOUT CONCRETE APRON	344	0	0	0	0	0	0	480	0	0	0	0
DRIVEWAYS	6	0	17	0	0	20	0	0	486	0	70	0
TOTAL	9760	470	1176	1516	2630	2976	500	480	486	1812	70	55

* LOCATIONS AS DIRECTED BY ENGINEER

TRAFFIC CONTROL	
CSSTP-0006-00(932)	LUMP SUM

GRADING COMPLETE	
CSSTP-0006-00(932)	LUMP SUM

FIELD ENGINEERS OFFICE TP 3	
1	EA

ROCK EXCAVATION *	
CY	900

* FOR ROADWAY CONSTRUCTION

CONCRETE MEDIAN, 6 IN TP 7 FACE	
SY	1055

UNDERDRAIN PIPE ONLY, 6 IN (OUTLET PIPE FROM SPRING BOX)	
LF	70

SPRING BOX	
EA	1

CONSTRUCTION VIBRATION MONITORING	
1	LUMP SUM

CONC. SIDEWALK, 8 IN	
SY	1410

SOD	
SY	1200

RIGHT-OF-WAY MARKERS	
EA	48

CONCRETE CURB, STD 9032-B

TYPE	UNIT	TOTAL
CONC CURB AND GUTTER 8"X30", TP 2	LF	2880
CONC HEADER CURB, 6 IN, TP 7	LF	285
CONCRETE HEADER CURB, 4 IN, TP 9	LF	370

SUMMARY OF QUANTITIES FOR ROUNDABOUT LIGHTING PLANS DRAWINGS 25-0001 TO 25-0012 *

DESCRIPTION	UNIT	AMOUNT
CABLE, TP XHHW, AGW NO 12	LF	800
CABLE TP XHHW, AGW NO 10	LF	2800
CABLE TP XHHW, AGW NO 8	LF	200
CABLE TP XHHW, AGW NO 3/0	LF	30
CLASS B CONCRETE, INCL REINF STEEL	CY	30
CONDUIT, NONMETAL, TP 2, 1 IN	LF	1800
DIRECTIONAL BORE	LF	400
UNCLASSIFIED EXCAVATION	CY	667
FOUNDATION BACKFILL MATERIAL, TP 11	CY	667
CONDUIT, RIGID, 3/4 IN	LF	350
ELECTRICAL JUNCTION BOX	EA	14
ELEC. POWER SVC ASSEMBLY(UNDERGROUND SVC PT)	EA	1
POWER SERVICE CABINET	EA	1
MAIN SERVICE PICK UP POINT	LS	1
CONDUIT, NONMETAL, TP 2, 2 IN	LF	100
CONDUIT, NONMETAL, TP 1, POWER SERVICE, 2 IN	LF	100
LIGHTING STD, 30 FT, MH, 6 FT ARM	EA	12
LIGHTING BRACKET ARM, 6 FT ARM	EA	12
LUMINAIRE, TP A, LED	EA	12

* SEE 25-SERIES OF DRAWINGS FOR DETAILS

SUMMARY OF QUANTITIES FOR WATER LINE RELOCATION PLANS DRAWINGS 44-0001 TO 44-0014

DESCRIPTION	UNIT	AMOUNT
WATER MAIN, 8 IN	LF	2780
WATER MAIN, 6 IN	LF	20
FIRE HYDRANT ASSEMBLY WITH VALVE	EA	3
GATE VALVE, 8 IN	EA	3
TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 8 IN	EA	4
INSERTION VALVE, 6 IN	EA	1
RELOCATE EXIST. FIRE HYDRANT	EA	1
CUT AND PLUG EXISTING WATER MAIN	EA	4
CONCRETE THRUST COLLAR, 8 IN PIPE	EA	5
VALVE MARKERS	EA	9
WATER METER	EA	3
WATER SERVICE LINE	LF	80
ROCK EXCAVATION **	CY	900
TEMPORARY SILT FENCE, TYPE C **	LF	2700
MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C **	LF	1350
MULCH **	TN	2
TEMPORARY GRASSING **	AC	0.40

** PERTAINS TO WATER LINE RELOCATION PLANS ONLY (44-SERIES DRAWINGS)

GUARDRAIL QUANTITIES

GUARDRAIL "W" BEAM - 31 IN		ANCHORAGES	
LOCATION & SIDE	LIN FT	TP 1*	TP 12A**
94+31, LT		1	
McDANIEL MILL RD	420		
97+27, LT			1
TOTAL	420	1	1

* GA STD 4383
** GA STD 4384

NOTE: THE ACTUAL BEGINNING AND ENDING OF GUARDRAIL MAY BE ADJUSTED TO MEET FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER

ROUNDABOUT LANDSCAPING

CRATAEGUS VIRDIS - 3" CALIPER*	EA	3
ILEX VOMITORIA - 3 GAL*	EA	100
SPRING APPLICATION FERTILIZER	LB	200
LANDSCAPE MULCH	SY	400

* SPACING AS SHOWN ON DETAIL RA-1

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SUMMARY QUANTITIES

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 6-0001

3/1/2007 GPLN

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

DGN

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

PERMANENT DRAINAGE ITEMS

STR. NO.	STATION	LOCATION	STORM DRAIN PIPE H=1-10' 18" LF	30" LF	36" LF	42" LF	18" F.E.S. 1120 STORM DRAIN EA	18" S.E.S. 1122 STORM DRAIN EA	18" S.E.S. 1122 SIDE DRAIN EA	30" S.E.S. 1122 STORM DRAIN EA	30" H.W. 1125 CLASS A CONC INCL REINF STEEL CY	1011A STORM SEWER M.H. TP 1 EA	CONC SPILLWAY TP 3 EA	CONC SLOPE DRAIN SY	CATCH BASIN, GP 1 1033-D EA	CATCH BASIN, GP 1 1034-D EA	DROP INLET, GP 1 1019-A EA	RIP RAP TP 3 18" SY	PLASTIC FILTER FABRIC SY	SIDE DRAIN 18" LF	DROP INLET, GP 1 D-4 EA
A-1	109+45	McDANIEL MILL RD	72					1													
A-2	108+36	McDANIEL MILL RD	35												1						
A-3	109+50	McDANIEL MILL RD	114																		1
A-4	108+36	McDANIEL MILL RD	137												1						
A-5	107+00	McDANIEL MILL RD	30												1						
A-6	10+93	OLD KLONDIKE RD		22						1											
A-7	106+55	McDANIEL MILL RD	54												1						
A-8	106+80	McDANIEL MILL RD		66								1									
A-9	10+40	OLD KLONDIKE RD									2.32							29	29		
B-1	513+24	RELOC. KLONDIKE RD		212							4.04							20	20		
B-2	512+94	RELOC. KLONDIKE RD									4.28							75	75		
C-1	99+68	McDANIEL MILL RD				44					3.73										
C-2	99+65	McDANIEL MILL RD	34														1				
C-3	99+84	McDANIEL MILL RD	39														1				
C-4	199+75	McDANIEL MILL SB	40														1				
C-5	99+44.7	McDANIEL MILL RD				51						1									
C-6	199+34	McDANIEL MILL SB									3.87							31	31		
D-1	510+80	RELOC. KLONDIKE RD			104						2.82							19	19		
D-2	511+19	RELOC. KLONDIKE RD	30														1				
D-3	511+20	RELOC. KLONDIKE RD	20														1				
D-4	511+05	RELOC. KLONDIKE RD			20							1									
D-5	511+10	RELOC. KLONDIKE RD									3.05							29	29		
E-1	103+50	McDANIEL MILL RD	97												1						
E-2	102+50	McDANIEL MILL RD	28														1				
E-3	102+50	McDANIEL MILL RD	59												1						
E-4	101+88	McDANIEL MILL RD	14														1				
E-5	101+92	McDANIEL MILL RD						1										20	20		
F-1	612+97	RELOC. KLONDIKE WB	19														1				
F-2	612+97	RELOC. KLONDIKE WB						1										8	8		
F-3	613+35.77	RELOC. KLONDIKE WB	17														1				
F-4	613+37.37	RELOC. KLONDIKE WB						1										10	10		
G-1	514+18	RELOC. KLONDIKE RD	100														1				
G-2	513+18	RELOC. KLONDIKE RD	40														1				
G-3	513+18	RELOC. KLONDIKE RD					1											9	9		
H-1	98+85	McDANIEL MILL RD	23												1						
H-2	98+86	McDANIEL MILL RD	108														1				
H-3	97+75	McDANIEL MILL RD	35														1				
H-4	97+54	McDANIEL MILL RD						1										11	11		
I-1	509+00	RELOC. KLONDIKE RD	72														1				
I-2	509+75	RELOC. KLONDIKE RD	40														1				
I-3	510+05	RELOC. KLONDIKE RD	22													1					
I-4	510+00	RELOC. KLONDIKE RD				1												10	10		
J-1	610+48	RELOC. KLONDIKE WB	16													1					
J-2	610+47	RELOC. KLONDIKE WB						1										10	10		
K-1	611+25	RELOC. KLONDIKE WB	22														1				
K-2	611+16	RELOC. KLONDIKE WB						1										9	9		
L-1	201+86	McDANIEL MILL SB															1				
L-2	201+88	McDANIEL MILL SB	16					1										9	9		
	7+08	HURST RD											1	10				5	5		
	7+36	HURST RD																			
	508+60	RELOC. KLONDIKE RD																10	10		
	524+28	D.W. /RELOC KLONDIKE							2											25	
	104+17	D.W. /McDANIEL MILL							2											32	
		DITCH PROTECTION																1300	1300		
		AS DIRECTED BY ENGINEER																86	86		
TOTAL			1333	300	124	95	2	8	4	1	24.11	3	1	10	7	2	17	1700	1700	57	1

WATER QUALITY MONITOR & SAMPLING	
LOCATION	EACH
STA 94+10, 17 FT RT	1
STA 528+00, 22 FT LT	1
STA 7+00, 16 FT LT	1
STA 99+22, 85 FT LT	1
TOTAL	4

BARRIER FENCE (ORANGE), 4 FT	
LF	600

GRASSING		
	UNIT	QUANTITY
PERMANENT GRASSING	AC	6.0
TEMPORARY GRASSING	AC	3.0
FERTILIZER MIXED GRADE	TON	5.0
MULCH	TON	111
FERTILIZER NITROGEN CONTENT	LBS	450
AGRICULTURAL LIME	TON	9.0

TEMPORARY EROSION CONTROL		
	UNIT	QUANTITY
TEMPORARY SILT FENCE, TYPE C	LF	3350
ROCK FILTER DAMS	EA	5
INLET SEDIMENT TRAP	EA	27
EROSION CONTROL MATS, SLOPES	SY	6750
RIP RAP CHECK DAMS	EA	150
CONSTRUCTION EXIT*	EA	3

* IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE LOCATIONS FOR ALL CONSTRUCTION EXITS.

MAINTENANCE OF EROSION CONTROL		
	UNIT	QUANTITY
MAINT. OF TEMP SILT FENCE, TYPE C	LF	1675
MAINT. OF INLET SEDIMENT TRAP	EA	27
MAINT. OF CHECK DAM- ALL TYPES	LF	1990
MAINT. OF CONSTRUCTION EXIT	EA	3
MAINT. OF ROCK FILTER DAMS	EA	5

WATER QUALITY INSPECTION	
MONTHS	15

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-8900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SUMMARY QUANTITIES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 6-0002

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF 36 TRI
$USER$ $$PENTABLE$$ 36 OCT
DGN

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

SIGNING															
HIGHWAY SIGNS												SQUARE TUBE POST			
STATION	INSTL. NO.	SIGN CODE	TYPE 1 MATL. REFL SHEETING TP 9			TYPE 1 MATL. REFL SHEETING TP 11			TYPE 2 MATL. REFL SHEETING TP 9			TYPE 7		
			SIZE	QUANTITY	SQ. FT.	SIZE	QUANTITY	SQ. FT.	SIZE	QUANTITY	SQ. FT.	LENGTH	QUANTITY	TOTAL
KLONDIKE RD												LF		LF
504+00 RT	1	W1-2R				36x36	1	9.00				13.0	1	13.0
		W13-1P				18x18	1	2.25						
504+00 LT	2	R2-1(45)	24x30	1	5.00							13.0	1	13.0
505+36 RT	3	W2-6				36x36	1	9.00				13.0	1	13.0
		W16-9P				24x12	1	2.00						
505+71 MED	4	R4-7c	18x30	1	3.75							13.0	1	13.0
		OML3-L				36x12	1	3.00						
508+50 RT	5	D1-3d(*1)							102x42	1	29.75	13.0	2	26.0
509+00 RT	6	W2-6				36x36	1	9.00				13.0	1	13.0
		W13-1P				18x18	1	2.25						
509+40 RT	7	W3-2				36x36	1	9.00				13.0	1	13.0
510+59 RT	8	R560-5	24x30	1	5.00							13.0	1	13.0
610+50 LT	9	W1-4L				36x36	1	9.00				13.0	1	13.0
510+78 RT	10	W11-2				36x36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
611+09 LT	11	W11-2				36x36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
611+15 MED	12	D1-1d(*1)							72x18	1	9.00	13.0	2	26.0
511+16 RT	13	R1-2				36 TRI	1	3.90				13.0	1	13.0
511+16 MED	14	R1-2				36 TRI	1	3.90				13.0	1	13.0
511+92 MED	15	D1-1d(*2)							72x18	1	9.00	13.0	2	26.0
513+00 RT	16	W11-2				36X36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
612+97 LT	17	R1-2				36 TRI	1	3.90				13.0	1	13.0
612+97 MED	18	R1-2				36 TRI	1	3.90				13.0	1	13.0
613+31 LT	19	W11-2				36X36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
613+47 LT	20	R560-5	24x30	1	5.00							13.0	1	13.0
514+00 RT	21	W1-4L				36X36	1	9.00				13.0	1	13.0
514+70 LT	22	W3-2				36X36	1	9.00				13.0	1	13.0
515+50 LT	23	W2-6				36X36	1	9.00				13.0	1	13.0
		W13-1P				18x18	1	2.25						
516+00 LT	24	D1-3d(*2)							102x42	1	29.75	13.0	2	26.0
517+54 MED	25	R4-7c	18x30	1	3.75							13.0	1	13.0
		OML3-L				36x12	1	3.00						
522+00 LT	26	W2-6				36X36	1	9.00				13.0	1	13.0
		W16-9P				24x12	1	2.00						
526+00 RT	27	R2-1(45)	24x30	1	5.00							13.0	1	13.0
526+75 LT	28	W1-4L				36X36	1	9.00				13.0	1	13.0
		W13-1P				18x18	1	2.25						
ROUNDABOUT INSCRIBED CIRCLE														
4+00 LT	29	R6-4A	30x24	1	8.00							13.0	2	26.0
0+66 LT	30	R6-4A	30x24	1	8.00							13.0	2	26.0
1+58 LT	31	R6-4A	30x24	1	8.00							13.0	2	26.0
3+09 LT	32	R6-4A	30x24	1	8.00							13.0	2	26.0

SIGNING															
HIGHWAY SIGNS												SQUARE TUBE POST			
STATION	INSTL. NO.	SIGN CODE	TYPE 1 MATL. REFL SHEETING TP 9			TYPE 1 MATL. REFL SHEETING TP 11			TYPE 2 MATL. REFL SHEETING TP 9			TYPE 7		
			SIZE	QUANTITY	SQ. FT.	SIZE	QUANTITY	SQ. FT.	SIZE	QUANTITY	SQ. FT.	LENGTH	QUANTITY	TOTAL
McDANIEL MILL RD												LF		LF
94+10 RT	33	W2-6				36x36	1	9.00				13.0	1	13.0
		W16-9P				24x12	1	2.00						
95+00 LT	34	R2-1(45)	24x30	1	5.00							13.0	1	13.0
97+50 RT	35	D1-3d(*3)							102x42	1	29.75	13.0	2	26.0
97+80 MED	36	R4-7c	18x30	1	3.75							13.0	1	13.0
		OML3-L				36x12	1	3.00						
98+20 RT	37	W3-2				36x36	1	9.00				13.0	1	13.0
99+00 RT	38	R2-6				36x36	1	9.00				13.0	1	13.0
		W13-1P				18X18	1	2.25						
99+29 RT	39	R560-5	24x30	1	5.00							13.0	1	13.0
99+45 RT	40	W11-2				36x36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
199+65 RT	41	W11-2				36x36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
198+80 MED	42	D1-1d(*2)							90X18	1	11.25	13.0	2	26.0
99+83 RT	43	R1-2				36 TRI	1	3.90				13.0	1	13.0
99+83 MED	44	R1-2				36 TRI	1	3.90				13.0	1	13.0
101+60 MED	45	D1-1d(*2)							90X18	1	11.25	13.0	2	26.0
101+68 RT	46	W11-2				36X36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
201+58 MED	47	R1-2				36 TRI	1	3.90				13.0	1	13.0
201+45 LT	48	R1-2				36 TRI	1	3.90				13.0	1	13.0
201+86 LT	49	W11-2				36X36	1	9.00				13.0	1	13.0
		W16-7P				24x12	1	2.00						
202+05 LT	50	R560-5	24x30	1	5.00							13.0	1	13.0
103+00 RT	51	W2-1				36x36	1	9.00				13.0	2	26.0
		W16-8A				54x15	1	5.63						
203+36 LT	52	W3-2				36X36	1	9.00				13.0	1	13.0
203+82 LT	53	D1-3d(*4)							102x42	1	29.75	13.0	2	26.0
203+82 MED	54	R4-7	24x30	1	5.00							13.0	1	13.0
205+00 LT	55	W2-6				36X36	1	9.00				13.0	1	13.0
		W13-1P				18x18	1	2.25						
109+00 LT	56	W2-1				36X36	1	9.00				13.0	2	26.0
		W16-8A				54x15	1	5.63						
109+36 RT	57	R2-1(45)	24X30	1	5.00							13.0	1	13.0
HURST RD														
7+20 RT	58	W3-1A				36X36	1	9.00				13.0	1	13.0
		W16-8				48X8	1	2.67						
8+00 LT	59	R2-1(25)	24X30	1	5.00							13.0	1	13.0
9+50 RT	60	R1-1				36 OCT	1	6.30				13.0	1	13.0
OLD KLONDIKE RD														
10+70 LT	61	R1-1				36 OCT	1	6.30				13.0	1	13.0
11+30 RT	62	W14-2				36X36	1	9.00				13.0	1	13.0
13+00 RT	63	R2-1(25)	24X30	1	5.00							13.0	1	13.0
TOTAL					98.3			345.2			159.5			1001.00

THERMOPLASTIC TRAFFIC STRIPE								RAISED PAVEMENT MARKERS
LOCATION	5" SOLID YELLOW (LF)	5" SOLID WHITE (LF)	5" SKIP WHITE (GLF)	8" SOLID WHITE (LF)	24" SOLID WHITE (LF)	TRAFFIC WHITE STRIPING (SY)	TRAFFIC YELLOW STRIPING (SY)	TYPE 15 ARROW (EA)	TYPE 1
TOTAL	9344	8293	120	1804	34	67	208	4	166

CHANGABLE MESSAGE SIGN, PORT, TP 3	
EACH	4

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SUMMARY QUANTITIES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 6-0003

3/1/2007 GPLN

REF'S: SHEET 2 OF 6, SHEET 3 OF 6, SHEET 4 OF 6, SHEET 5 OF 6, SHEET 6 OF 6, SHEET 7 OF 6, SHEET 8 OF 6, SHEET 9 OF 6, SHEET 10 OF 6, SHEET 11 OF 6, SHEET 12 OF 6, SHEET 13 OF 6, SHEET 14 OF 6, SHEET 15 OF 6, SHEET 16 OF 6

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

QUANTITIES REQUIRED BY AMENDMENT

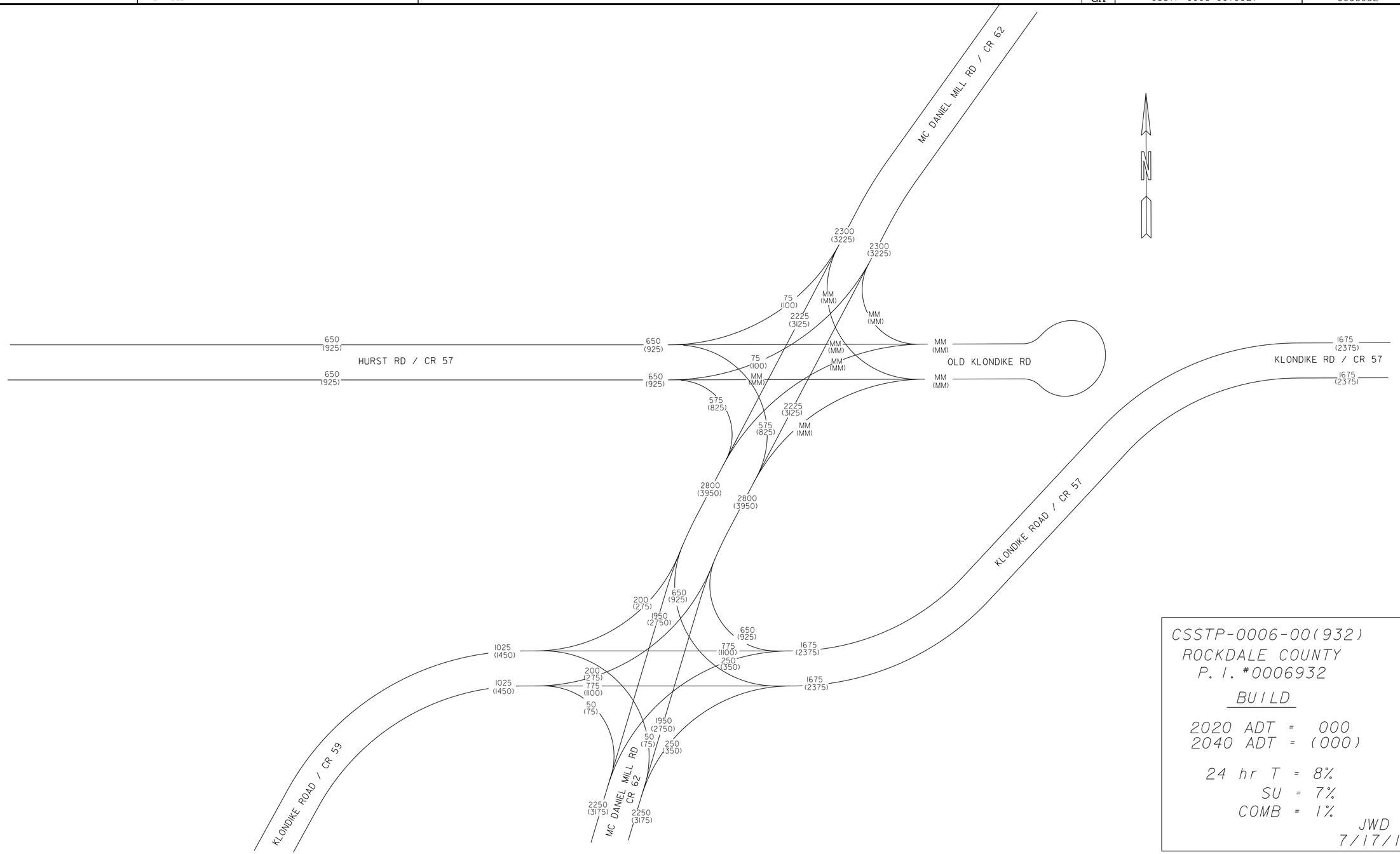
DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY

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

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

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



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

2020 ADT = 000
2040 ADT = (000)

24 hr T = 8%
SU = 7%
COMB = 1%

JWD
7/17/17

DATE	REVISION

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

N.T.S.

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

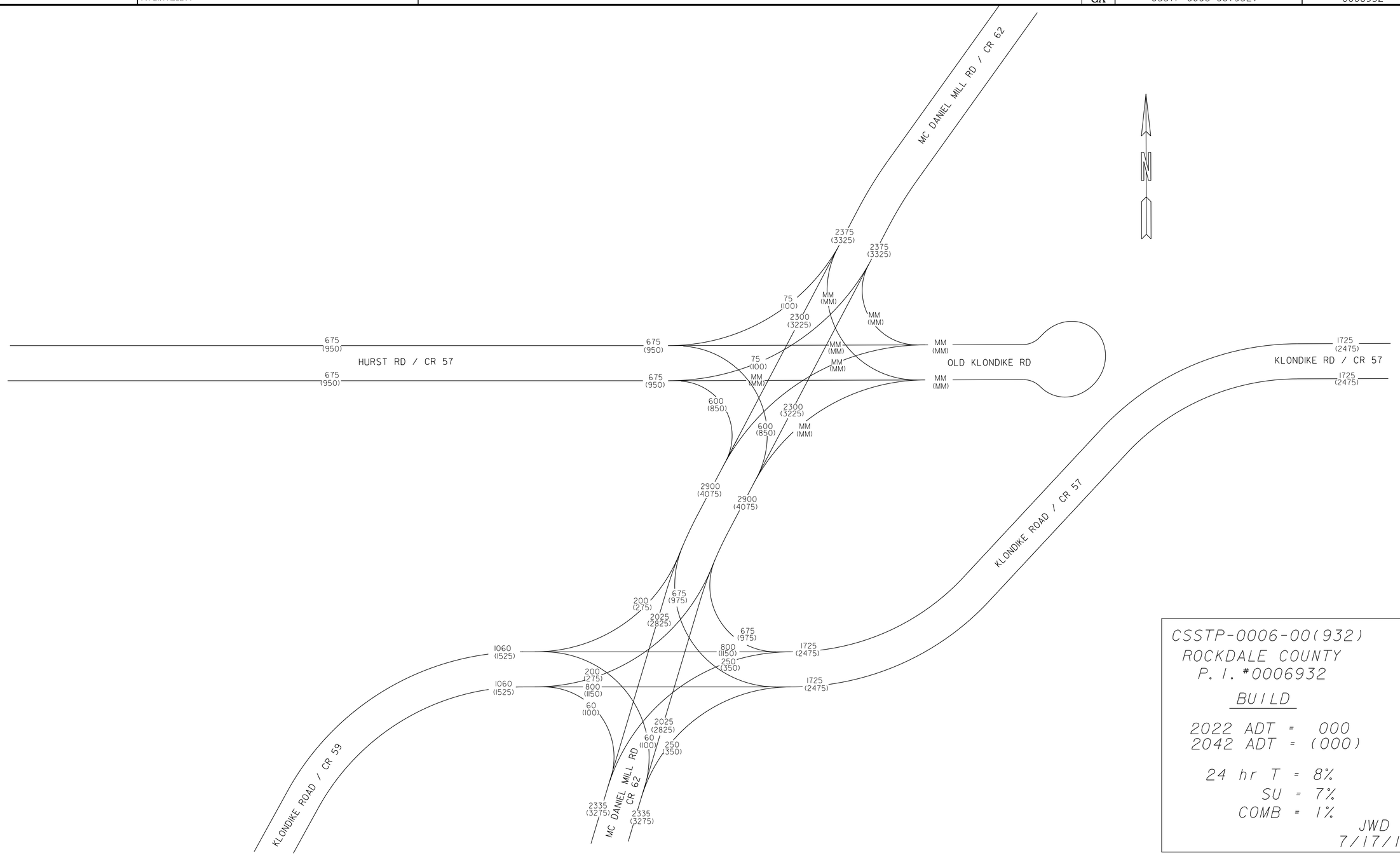
TRAFFIC DIAGRAM
CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

DRAWING No. 10-0001

3/1/2007 GPLN

I:\Dgn\0006932TR01.dgn 4/12/2018 2:22:02 PM

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



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

2022 ADT = 000
2042 ADT = (000)

24 hr T = 8%
SU = 7%
COMB = 1%

JWD
7/17/17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

N.T.S.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

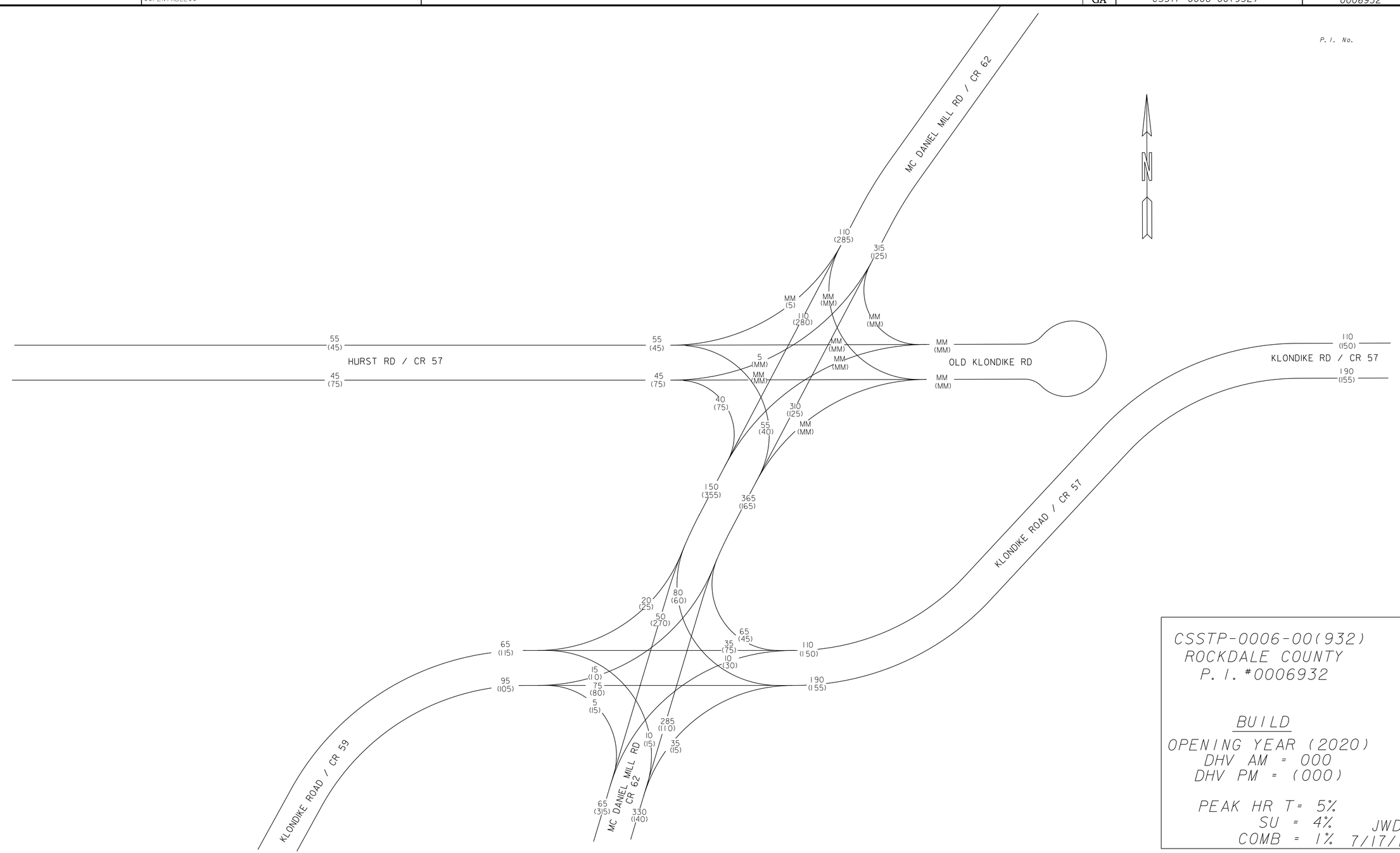
DRAWING No. 10-0002

3/1/2007 GPLN

I:\Dgn\0006932TR01.dgn 4/12/2018 2:22:24 PM

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

P. I. No.



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

OPENING YEAR (2020)
DHV AM = 000
DHV PM = (000)

PEAK HR T= 5%
SU = 4%
COMB = 1%

JWD
7/17/17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

N.T.S.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

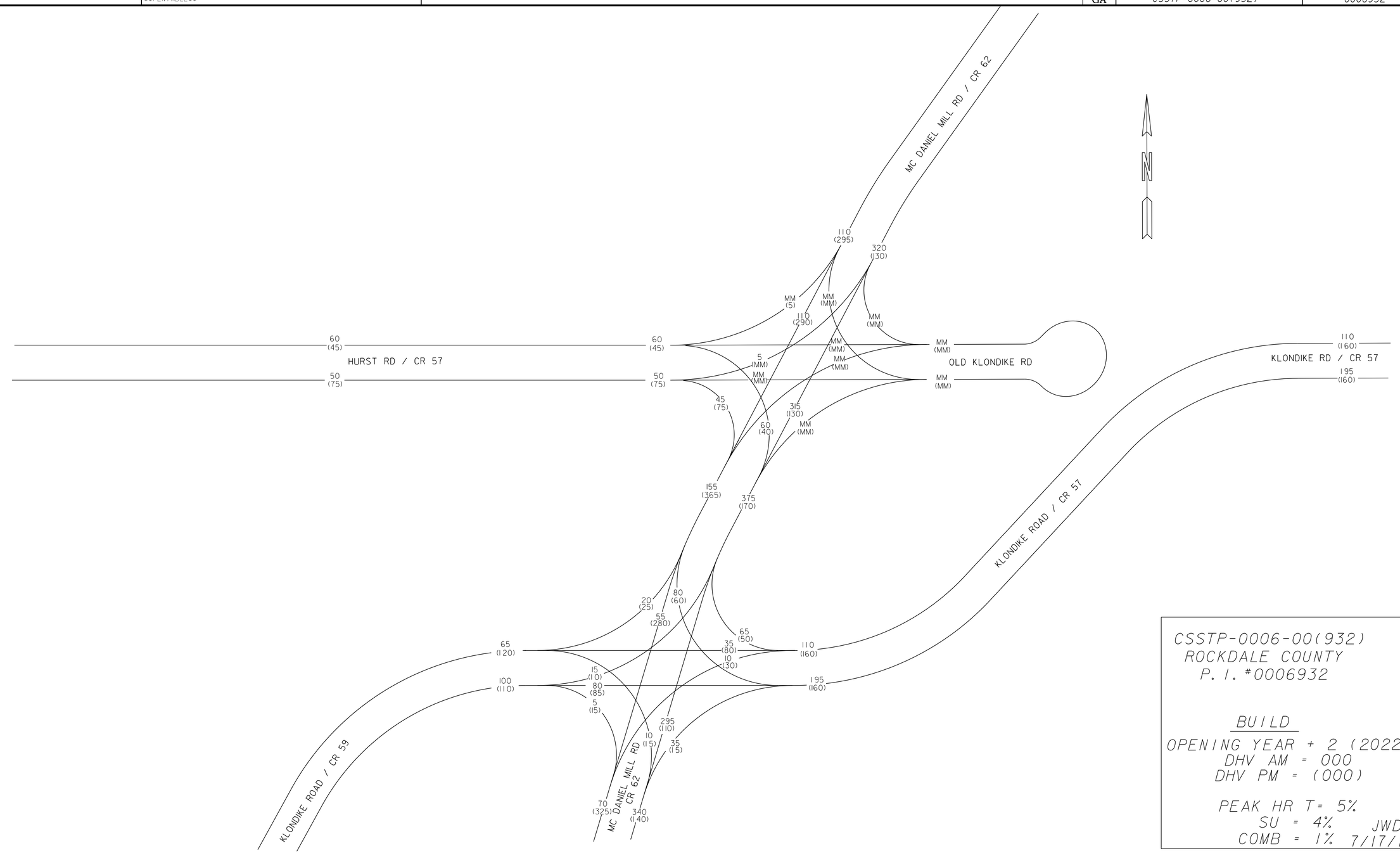
CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

DRAWING No.
10-0003

3//2007 GPLN

\Dgn\0006932TR01.dgn 4/12/2018 2:23:20 PM

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



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

OPENING YEAR + 2 (2022)
DHV AM = 000
DHV PM = (000)

PEAK HR T= 5%
SU = 4%
COMB = 1%

JWD
7/17/17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

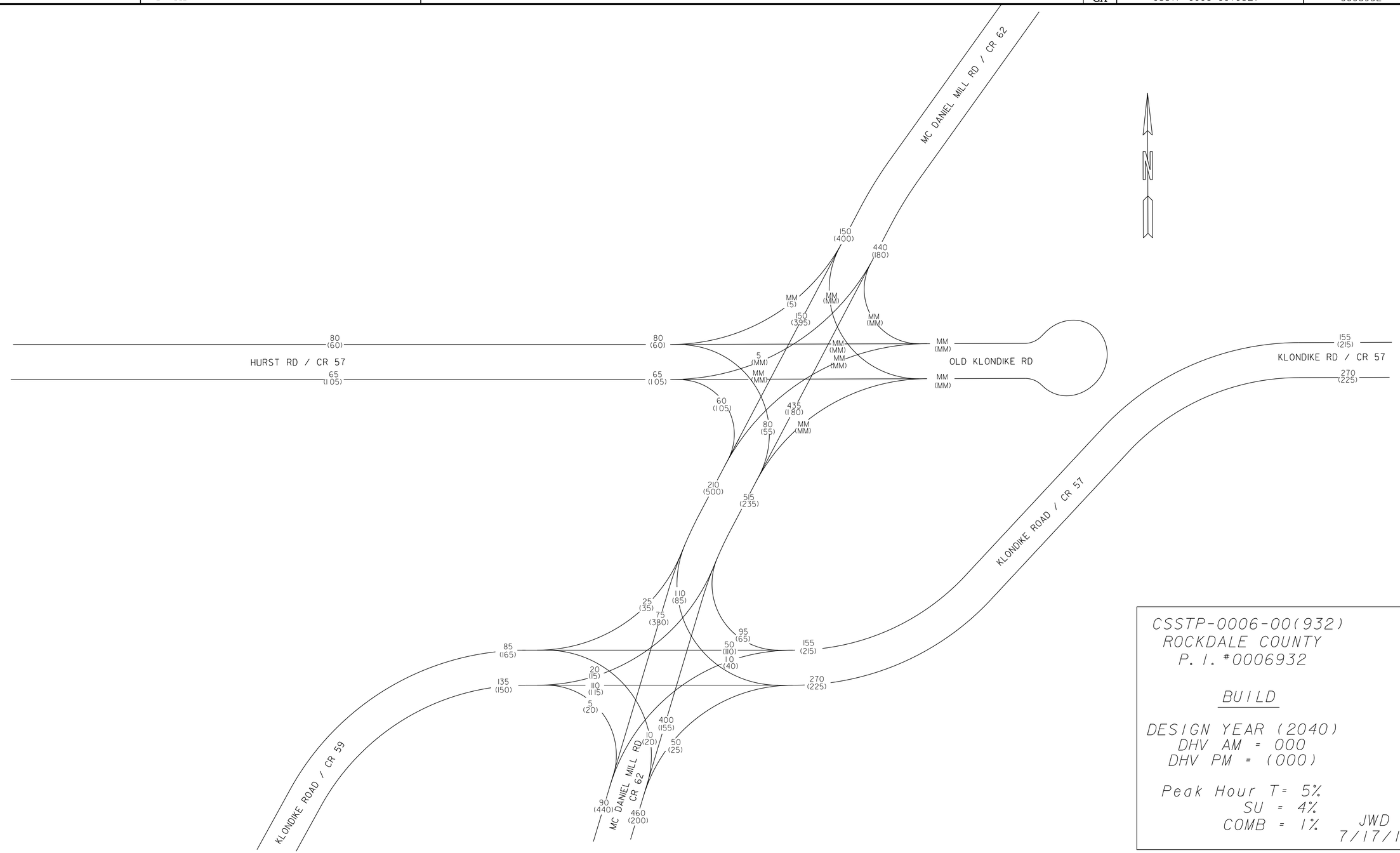
CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

DRAWING No. 10-0004

3/1/2007 GPLN

$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$
$$REF$$

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



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

DESIGN YEAR (2040)
DHV AM = 000
DHV PM = (000)

Peak Hour T = 5%
SU = 4%
COMB = 1%

JWD
7/17/17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

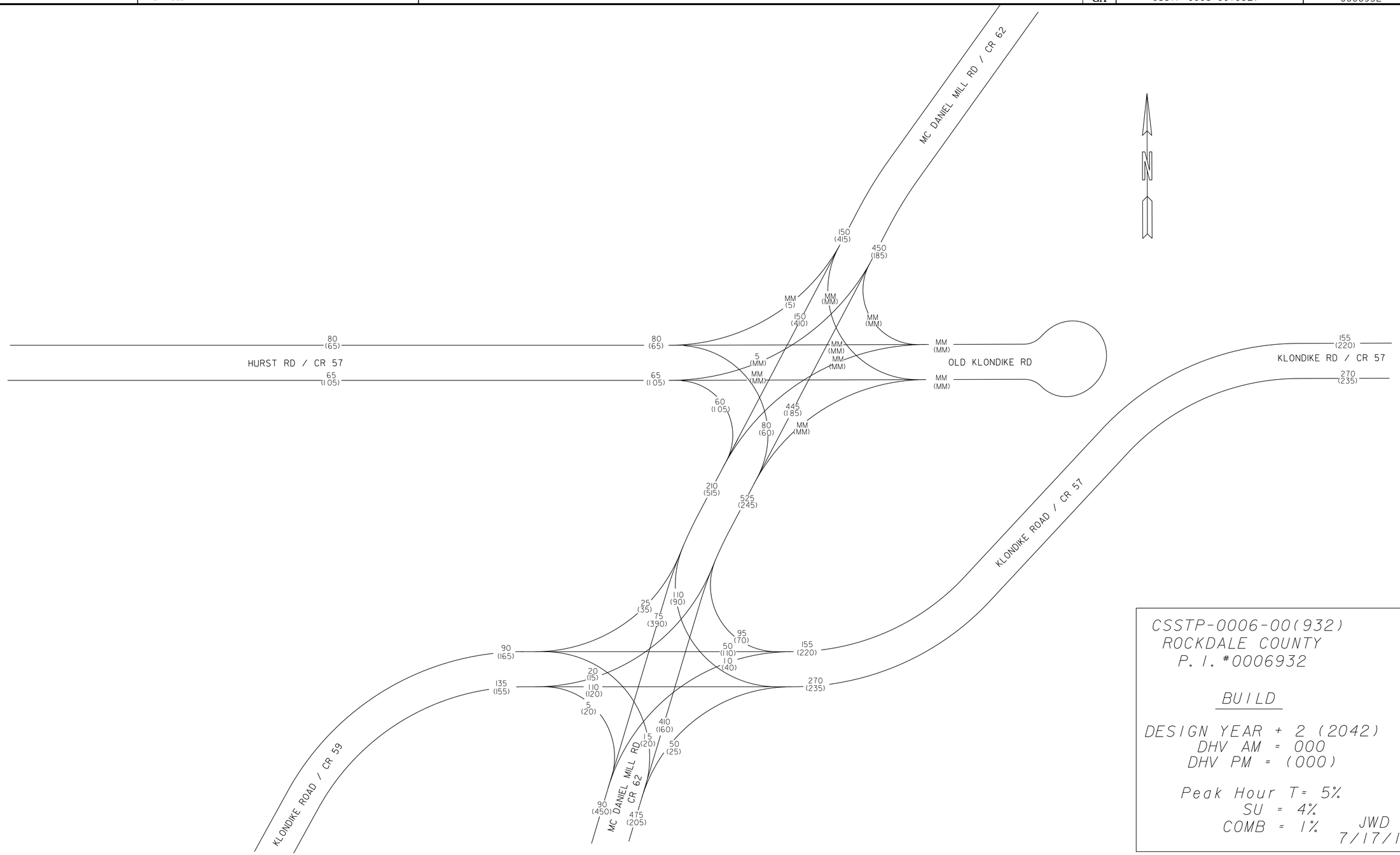
CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

DRAWING No. 10-0005

3//2007 GPLN

\Dgn\0006932TR01.dgn 4/12/2018 2:23:56 PM

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



CSSTP-0006-00(932)
ROCKDALE COUNTY
P. I. #0006932

BUILD

DESIGN YEAR + 2 (2042)
DHV AM = 000
DHV PM = (000)

Peak Hour T= 5%
SU = 4%
COMB = 1%

JWD
7/17/17

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree City, Georgia 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

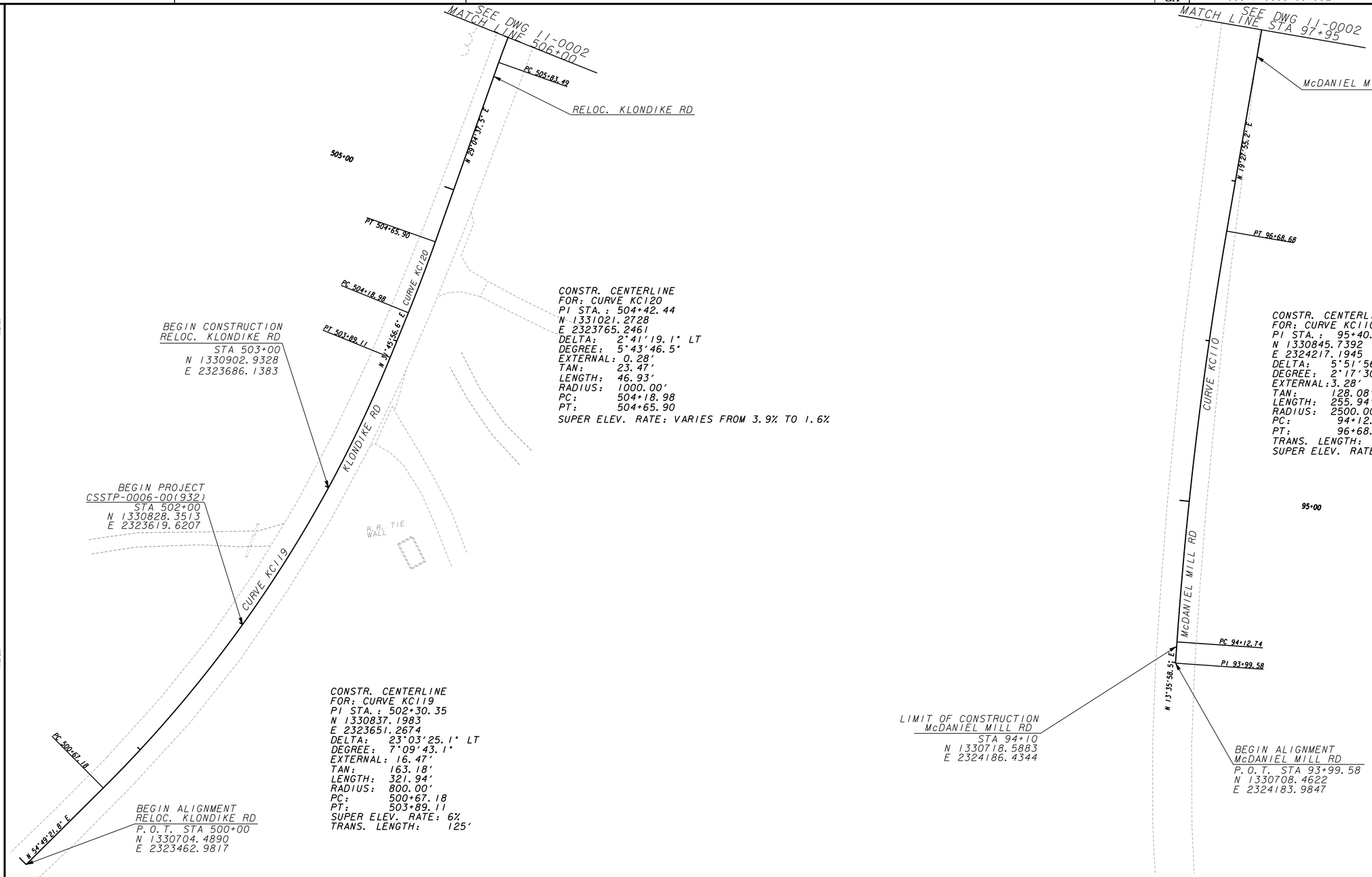
TRAFFIC DIAGRAM
CR 57, CR 59 / KLONDIKE RD
CR 62 / MCDANIEL MILL RD
CR 57 / HURST RD
INTERSECTION IMPROVEMENTS

DRAWING No. 10-0006

3//2007 GPLN

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

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 30 60 120

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

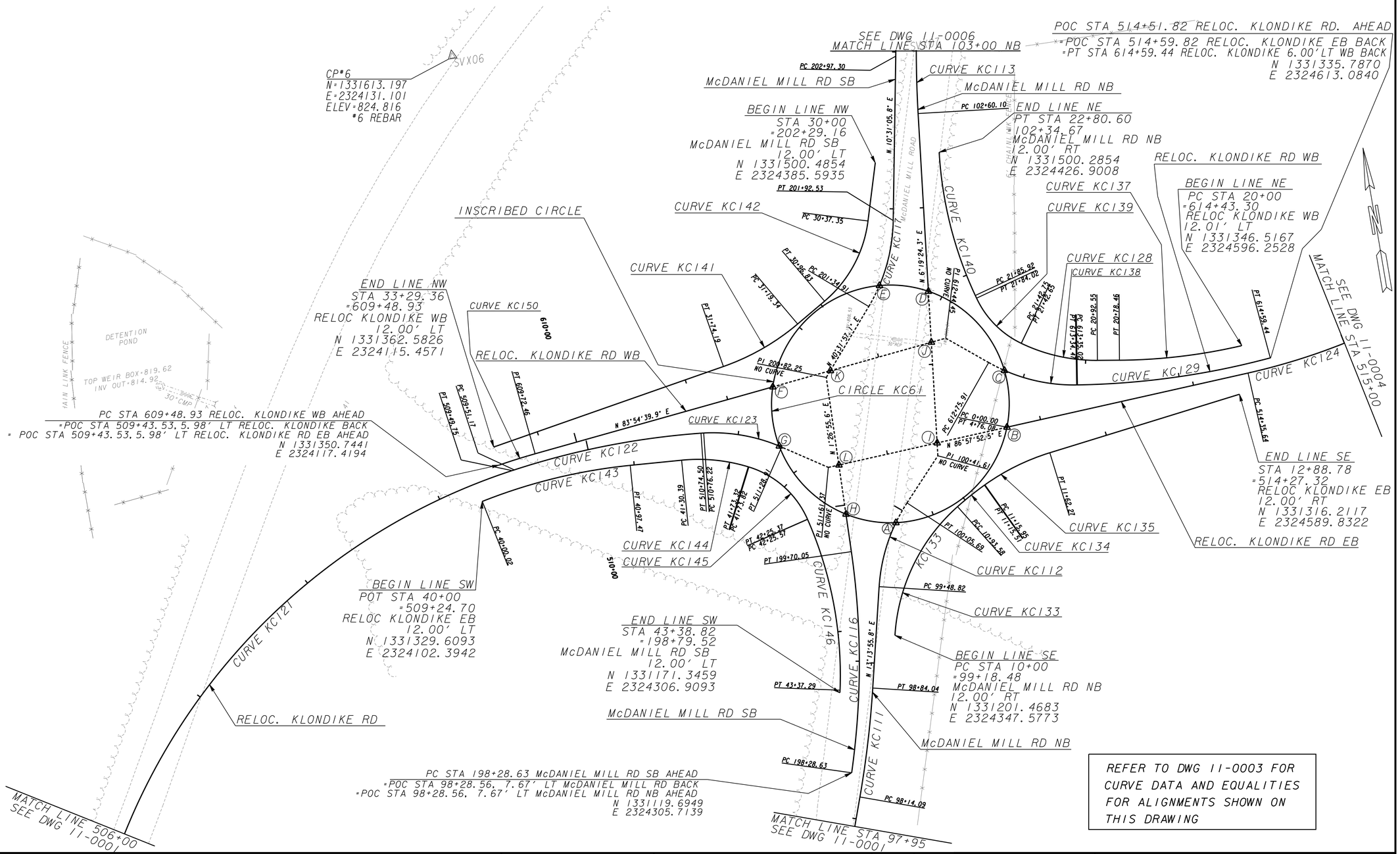
CONSTRUCTION LAYOUT

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 11-0001

3/1/2007 GPLN

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 30 60 120

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION LAYOUT

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
11-0002

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF
$USER$ $$PENTABLES$$ DGN

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

CURVE DATA: McDANIEL MILL RD: NB

CONSTR. CENTERLINE
FOR: CURVE KC111
PI STA.: 98+49.10
N 1331136.6102
E 2324319.9993
DELTA: 6°13'59.4" LT
DEGREE: 8°54'38.5"
EXTERNAL: 0.95'
TAN: 35.01'
LENGTH: 69.95'
RADIUS: 643.00'
PC: 98+14.09
PT: 98+84.04
BRNG BACK: N19°27'55.2"E
BRNG AHEAD: N13°13'55.8"E
SUPER ELEV. RATE:
VARIES FROM 4.3% TO 5.0%

CONSTR. CENTERLINE
FOR: CURVE KC112
PI STA.: 99+77.90
N 1331262.0632
E 2324349.4983
DELTA: 29°37'14.8" RT
DEGREE: 52°05'13.5"
TAN: 29.08'
EXTERNAL: 3.78'
LENGTH: 56.87'
RADIUS: 110.00'
PC: 99+48.82
PT: 100+05.69
BRNG BACK: N13°13'55.8"E
BRNG AHEAD: N42°51'10.6"E
SUPER ELEV. RATE:
VARIES FROM 0.5% TO 0.6%

CONSTR. CENTERLINE
FOR: PI STA 100+41.61
NO CURVE
N 1331309.7188
E 2324393.7098
BRNG BACK: N42°51'10.6"E
BRNG AHEAD: N 6°19'24.3"E

CONSTR. CENTERLINE
FOR: CURVE KC113
PI STA.: 104+43.28
N 1331708.9429
E 2324437.9497
DELTA: 29°19'41.9" RT
DEGREE: 8°11'06.4"
EXTERNAL: 23.57'
TAN: 183.17'
LENGTH: 358.31'
RADIUS: 700.00'
PC: 102+60.10
PT: 106+18.42
BRNG BACK: N 6°19'24.3"E
BRNG AHEAD: N35°39'06.2"E
SUPER ELEV. RATE:
VARIES FROM 2.0% TO 6.0%

CURVE DATA: INSCRIBED ROUNDABOUT CIRCLE

CONSTR. BASELINE
FOR: CIRCLE KC61
PI STA.: 0+00
N 1331320.2912
E 2324440.1481
DELTA: 360°00'00.0" LT
EXTERNAL: 151.54'
TAN: 0.00'
LENGTH: 476.08'
RADIUS: 75.77'
PC: 0+00.00
PT: 4+76.08
CC:
N 1331347.3625
E 2324369.3788
PC/PT
N 1331320.2912
E 2324440.1481

CURVE DATA: McDANIEL MILL RD: SB

CONSTR. CENTERLINE
FOR: CURVE KC116
PI STA.: 198+99.82
N 1331187.5275
E 2324327.3025
DELTA: 16°12'20.0" LT
DEGREE: 11°27'33.0"
EXTERNAL: 5.04'
TAN: 71.19'
LENGTH: 141.42'
RADIUS: 500.00'
PC: 198+28.63
PT: 199+70.05
BRNG BACK: N17°39'15.6"E
BRNG AHEAD: N 1°26'55.6"E
SUPER ELEV. RATE:
VARIES FROM 5.5% TO 1.7%

CONSTR. CENTERLINE
FOR: PI STA 200+82.25
NO CURVE
N 1331370.8552
E 2324331.9391
BRNG BACK: N 1°26'55.6"E
BRNG AHEAD: N40°31'57.1"E

CONSTR. CENTERLINE
FOR: CURVE KC117
PI STA.: 201+64.40
N 1331433.2866
E 2324385.3219
DELTA: 30°00'51.3" LT
DEGREE: 52°05'13.5"
EXTERNAL: 3.88'
TAN: 29.49'
LENGTH: 57.62'
RADIUS: 110.00'
PC: 201+34.91
PT: 201+92.53
BRNG BACK: N40°31'57.1"E
BRNG AHEAD: N10°31'05.8"E
SUPER ELEV. RATE:
VARIES FROM 2.1% TO 1.7%

CURVE DATA: LINE "NW": NORTHWEST ROUNDABOUT E.O.P. NOT S.E. PIVOT POINTS

CONSTR. CENTERLINE
FOR: CURVE KC142
PI STA.: 30+68.54
N 1331434.8547
E 2324365.8234
DELTA: 42°35'57.7" RT
EXTERNAL: 5.87'
TAN: 31.19'
LENGTH: 59.48'
RADIUS: 80.00'
PC: 30+37.35
PT: 30+96.83
BRNG BACK: S16°45'15.4"W
BRNG AHEAD: S59°21'48.1"W

FOR: CURVE KC141
CONSTR. CENTERLINE

PI STA.: 31+47.08
N 1331393.3573
E 2324295.7576
DELTA: 20°57'01.4" RT
EXTERNAL: 2.54'
TAN: 27.73'
LENGTH: 54.85'
RADIUS: 150.00'
PC: 31+19.34
PT: 31+74.19
BRNG BACK: S59°21'48.1"W
BRNG AHEAD: S80°18'49.5"W

CURVE DATA: RELOC. KLONDIKE RD: EB

CONSTR. CENTERLINE
FOR: CURVE KC121
PI STA.: 507+80.59
N 1331316.8059
E 2323929.5829
DELTA: 52°27'45.4" RT
DEGREE: 14°19'26.2"
EXTERNAL: 45.92'
TAN: 197.10'
LENGTH: 366.26'
RADIUS: 400.00'
PC: 505+83.49
PT: 509+49.75
BRNG BACK: N29°04'37.5"E
BRNG AHEAD: N81°32'22.9"E
SUPER ELEV. RATE:
VARIES FROM 5.9% TO 4.2%

CONSTR. CENTERLINE
FOR: CURVE KC122
PI STA.: 510+13.15
N 1331355.1313
E 2324187.2459
DELTA: 14°07'56.3" RT
DEGREE: 11°27'33.0"
EXTERNAL: 3.83'
TAN: 61.98'
LENGTH: 123.33'
RADIUS: 500.00'
PC: 509+51.17
PT: 510+74.50
BRNG BACK: N81°32'22.9"E
BRNG AHEAD: S84°19'40.8"E
SUPER ELEV. RATE:
VARIES FROM 4.2% TO 4.0%

CONSTR. CENTERLINE
FOR: CURVE KC123
PI STA.: 511+03.08
N 1331346.5214
E 2324273.9341
DELTA: 27°26'37.9" RT
DEGREE: 52°05'13.5"
EXTERNAL: 3.23'
TAN: 26.86'
LENGTH: 52.69'
RADIUS: 110.00'
PC: 510+76.22
PT: 511+28.91
BRNG BACK: S84°19'40.8"E
BRNG AHEAD: S56°53'02.8"E
SUPER ELEV. RATE:
VARIES FROM 4.0% TO 3.5%

CONSTR. CENTERLINE
FOR: PI STA 511+61.37
NO CURVE
N 1331314.1120
E 2324323.6201
BRNG BACK: S56°53'02.8"E
BRNG AHEAD: N86°57'52.5"E

CONSTR. CENTERLINE
FOR: CURVE KC124
PI STA.: 516+07.85
N 1331337.7544
E 2324769.4720
DELTA: 45°58'09.5" LT
DEGREE: 14°06'44.1"
EXTERNAL: 35.01'
TAN: 172.21'
LENGTH: 325.74'
RADIUS: 406.00'
PC: 514+35.64
PT: 517+61.38
BRNG BACK: N86°57'52.5"E
BRNG AHEAD: N40°59'43.0"E
SUPER ELEV. RATE:
VARIES FROM 4.0% TO 5.9%

CURVE DATA: RELOC. KLONDIKE RD: WB

CONSTR. CENTERLINE
FOR: CURVE KC150
PI STA.: 609+60.70
N 1331352.6683
E 2324129.0301
DELTA: 3°19'14.9" RT
DEGREE: 14°06'44.1"
EXTERNAL: 0.17'
TAN: 11.77'
LENGTH: 23.53'
RADIUS: 406.00'
PC: 609+48.93
PT: 609+72.46
BRNG BACK: N80°35'24.9"E
BRNG AHEAD: N83°54'39.9"E
SUPER ELEV. RATE:
VARIES FROM 4.0% TO 2.0%

CONSTR. CENTERLINE
FOR: PI STA 612+44.45
NO CURVE
N 1331382.7673
E 2324411.1898
BRNG BACK: N83°54'39.9"E
BRNG AHEAD: S50°50'07.8"E

CONSTR. CENTERLINE
FOR: CURVE KC128
PI STA.: 613+05.90
N 1331343.9592
E 2324458.8335
DELTA: 30°29'58.5" LT
DEGREE: 52°05'13.5"
EXTERNAL: 4.01'
TAN: 29.99'
LENGTH: 58.55'
RADIUS: 110.00'
PC: 612+75.91
PT: 613+34.47
BRNG BACK: S50°50'07.8"E
BRNG AHEAD: S81°20'06.3"E
SUPER ELEV. RATE:
VARIES FROM 0.9% TO 2.1%

CONSTR. CENTERLINE
FOR: CURVE KC129
PI STA.: 613+97.54
N 1331329.9383
E 2324550.8367
DELTA: 14°01'57.5" LT
DEGREE: 11°16'43.3"
EXTERNAL: 3.83'
TAN: 62.52'
LENGTH: 124.42'
RADIUS: 508.00'
PC: 613+35.02
PT: 614+59.44
BRNG BACK: S81°20'06.3"E
BRNG AHEAD: N84°37'56.2"E
SUPER ELEV. RATE:
VARIES FROM 2.1% TO 4.4%

CURVE DATA: LINE "SW": SOUTHWEST ROUNDABOUT E.O.P. NOT S.E. PIVOT POINTS

CONSTR. BASELINE
FOR: CURVE KC143
PI STA.: 40+49.06
N 1331339.8499
E 2324150.3735
DELTA: 15°57'10.8" RT
EXTERNAL: 3.42'
TAN: 49.04'
LENGTH: 97.45'
RADIUS: 350.00'
PC: 40+00.02
PT: 40+97.47
BRNG BACK: N77°57'06.2"E
BRNG AHEAD: S86°05'43.0"E

CURVE DATA: LINE "SE": SOUTHEAST ROUNDABOUT E.O.P. NOT S.E. PIVOT POINTS

CONSTR. BASELINE
FOR: CURVE KC133
PI STA.: 10+49.31
N 1331249.4724
E 2324358.8650
DELTA: 44°40'47.7" RT
TAN: 49.31'
EXTERNAL: 9.74'
LENGTH: 93.58'
RADIUS: 120.00'
PC: 10+00.00
PCC: 10+93.58
BRNG BACK: N13°13'55.8"E
BRNG AHEAD: N57°54'43.5"E

CONSTR. BASELINE
FOR: CURVE KC134
PI STA.: 11+04.55
N 1331281.4985
E 2324409.9429
DELTA: 6°16'56.3" RT
EXTERNAL: 0.30'
TAN: 10.98'
LENGTH: 21.93'
RADIUS: 200.00'
PCC: 10+93.58
PT: 11+15.51
BRNG BACK: N57°54'43.5"E
BRNG AHEAD: N64°11'39.8"E

CONSTR. BASELINE
FOR: CURVE KC135
PI STA.: 11+39.31
N 1331296.6371
E 2324441.2507
DELTA: 18°18'01.8" RT
TAN: 23.36'
EXTERNAL: 1.87'
LENGTH: 46.31'
RADIUS: 145.00'
PC: 11+15.95
PT: 11+62.27
BRNG BACK: N64°11'39.8"E
BRNG AHEAD: N82°29'41.6"E

CONSTR. BASELINE
FOR: CURVE KC144
PI STA.: 41+52.14
N 1331332.7870
E 2324253.8505
DELTA: 22°46'44.7" RT
EXTERNAL: 2.17'
TAN: 21.76'
LENGTH: 42.94'
RADIUS: 108.00'
PC: 41+30.39
PT: 41+73.32
BRNG BACK: S86°05'43.0"E
BRNG AHEAD: S63°18'58.2"E

CONSTR. BASELINE
FOR: CURVE KC145
PI STA.: 42+01.30
N 1331310.4526
E 2324298.2888
DELTA: 49°13'23.8" RT
TAN: 27.48'
EXTERNAL: 6.00'
LENGTH: 51.55'
RADIUS: 60.00'
PC: 41+73.82
PT: 42+25.37
BRNG BACK: S63°18'58.2"E
BRNG AHEAD: S14°05'34.4"E

CURVE DATA: LINE "NE": NORTHEAST ROUNDABOUT E.O.P. NOT S.E. PIVOT POINTS

CONSTR. BASELINE
FOR: CURVE KC137
PI STA.: 20+39.39
N 1331344.0893
E 2324556.9338
DELTA: 12°46'16.7" RT
TAN: 39.39'
EXTERNAL: 2.20'
LENGTH: 78.46'
RADIUS: 352.00'
PC: 20+00.00
PT: 20+78.46
BRNG BACK: S86°28'02.5"W
BRNG AHEAD: N80°45'40.8"W

CONSTR. BASELINE
FOR: CURVE KC138
PI STA.: 21+18.04
N 1331356.7680
E 2324478.9866
DELTA: 25°58'43.8" RT
EXTERNAL: 2.90'
TAN: 25.49'
LENGTH: 50.10'
RADIUS: 110.50'
PC: 20+92.55
PT: 21+42.65
BRNG BACK: N80°45'40.8"W
BRNG AHEAD: N54°46'57.0"W

CONSTR. BASELINE
FOR: CURVE KC139
PI STA.: 21+64.24
N 1331383.9156
E 2324440.5273
DELTA: 39°24'32.8" RT
EXTERNAL: 3.73'
TAN: 21.49'
LENGTH: 41.27'
RADIUS: 60.00'
PC: 21+42.75
PT: 21+84.02
BRNG BACK: N54°46'57.0"W
BRNG AHEAD: N15°22'24.2"W

CONSTR. BASELINE
FOR: CURVE KC140
PI STA.: 22+33.83
N 1331452.6679
E 2324421.6241
DELTA: 21°41'48.5" RT
EXTERNAL: 4.55'
TAN: 47.91'
LENGTH: 94.67'
RADIUS: 250.00'
PC: 21+85.92
PT: 22+80.60
BRNG BACK: N15°22'24.2"W
BRNG AHEAD: N 6°19'24.3"E

CONSTR. BASELINE
FOR: CURVE KC146
PI STA.: 42+82.40
N 1331228.4776
E 2324318.8687
DELTA: 25°54'57.2" RT
EXTERNAL: 6.45'
TAN: 56.83'
LENGTH: 111.72'
RADIUS: 247.00'
PC: 42+25.57
PT: 43+37.29
BRNG BACK: S14°05'34.4"E
BRNG AHEAD: S11°49'22.8"W

EQUALITIES FROM DWG 11-0002

(A) STA 99+91.21, McDANIEL MILL RD NB
- STA 3+75.50, ROUNDABOUT INSCRIBED CIRCLE
N 1331272.1551
E 2324360.1586

(B) STA 512+78.07, RELOC. KLONDIKE RD EB
- STA 0+00.00, ROUNDABOUT INSCRIBED CIRCLE
- STA 4+76.80, ROUNDABOUT INSCRIBED CIRCLE
N 1331320.2912
E 2324440.1481

(C) STA 612+87.13, RELOC. KLONDIKE RD WB
- STA 0+36.61, ROUNDABOUT INSCRIBED CIRCLE
N 1331356.2705
E 2324444.6237

(D) STA 101+46.62, McDANIEL MILL RD NB
- STA 1+09.31, ROUNDABOUT INSCRIBED CIRCLE
N 1331414.0901
E 2324405.2757

(E) STA 201+49.92, McDANIEL MILL RD SB
- STA 1+40.97, ROUNDABOUT INSCRIBED CIRCLE
N 1331422.9160
E 2321375.1080

(F) STA 611+29.88, RELOC. KLONDIKE RD WB
- STA 2+42.09, ROUNDABOUT INSCRIBED CIRCLE
N 1331370.6144
E 2324297.2643

(G) STA 511+27.25, RELOC. KLONDIKE RD EB
- STA 2+80.43, ROUNDABOUT INSCRIBED CIRCLE
N 1331332.7447
E 2324295.0318

(H) STA 199+94.17, McDANIEL MILL RD SB
- STA 3+43.00, ROUNDABOUT INSCRIBED CIRCLE
N 1331282.8046
E 2324329.7122

(I) STA 100+49.82, McDANIEL MILL RD NB
- STA 512+32.47, RELOC. KLONDIKE RD EB
N 1331317.8766
E 2324394.6138

(J) STA 101+14.08, McDANIEL MILL RD NB
- STA 612+34.90, RELOC. KLONDIKE RD WB
N 1331381.7541
E 2324401.6924

(K) STA 200+87.26, McDANIEL MILL RD SB
- STA 611+68.02, RELOC. KLONDIKE RD WB
N 1331374.6604
E 2324335.1928

(L) STA 200+25.86, McDANIEL MILL RD SB
- STA 511+68.28, RELOC. KLONDIKE RD EB
N 1331314.4775
E 2324330.5132

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

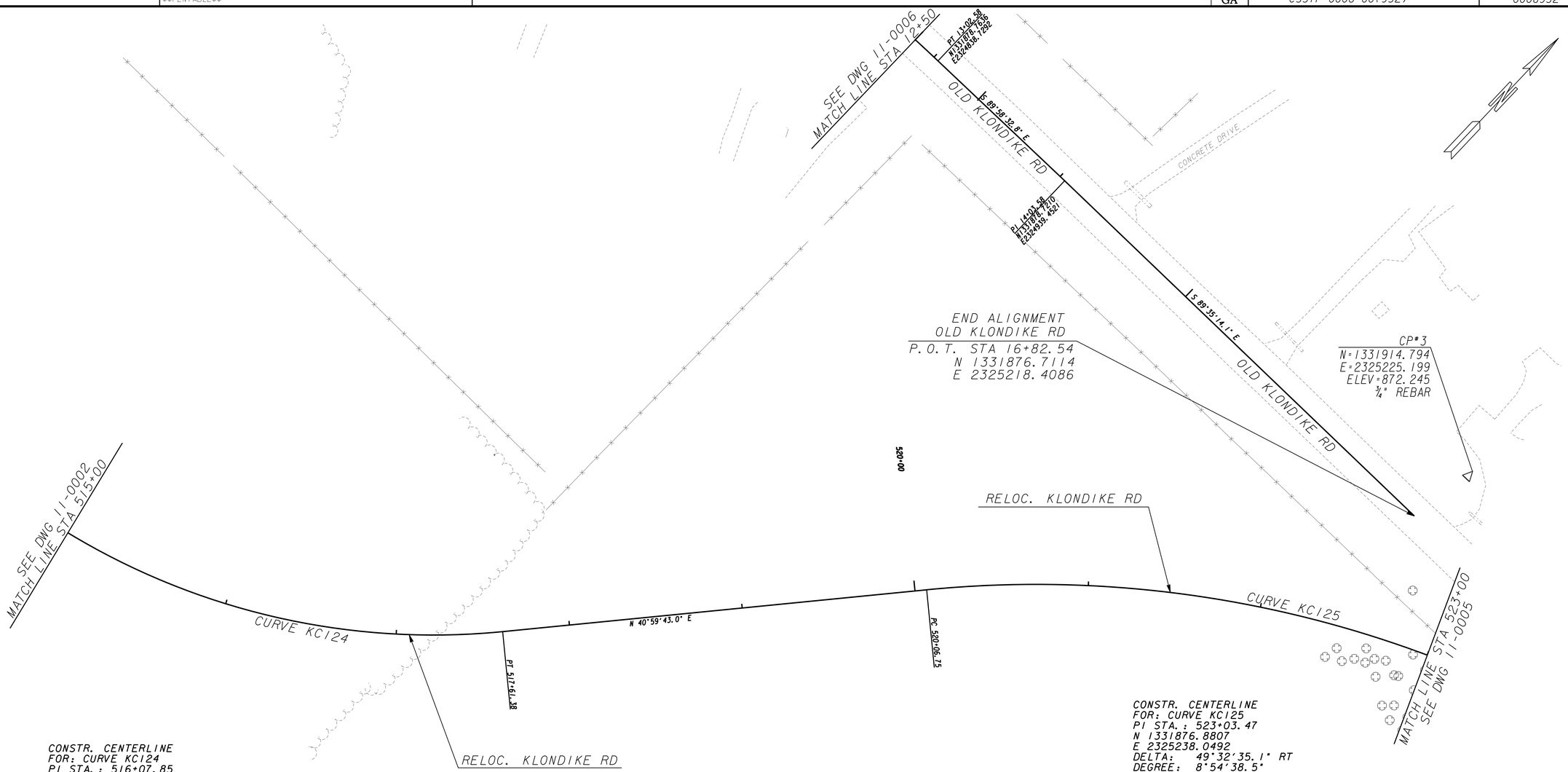
CONSTRUCTION LAYOUT
ROUNDABOUT CURVE DATA & EQUALITIES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 11-0003

3/1/2007 GPLN

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



CONSTR. CENTERLINE
FOR: CURVE KC124
PI STA.: 516+07.85
N 1331337.7544
E 2324769.4720
DELTA: 45°58'09.5" LT
DEGREE: 14°06'44.1"
EXTERNAL: 35.01'
TAN: 172.21'
LENGTH: 325.74'
RADIUS: 406.00'
PC: 514+35.64
PT: 517+61.38
TRANS. LENGTH: 175'
SUPER ELEV. RATE: 5.9%

CONSTR. CENTERLINE
FOR: CURVE KC125
PI STA.: 523+03.47
N 1331876.8807
E 2325238.0492
DELTA: 49°32'35.1" RT
DEGREE: 8°54'38.5"
EXTERNAL: 65.16'
TAN: 296.72'
LENGTH: 556.00'
RADIUS: 643.00'
PC: 520+06.75
PT: 525+62.75
TRANS. LENGTH: 134'
SUPER ELEV. RATE: 6%

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 30 60 120

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

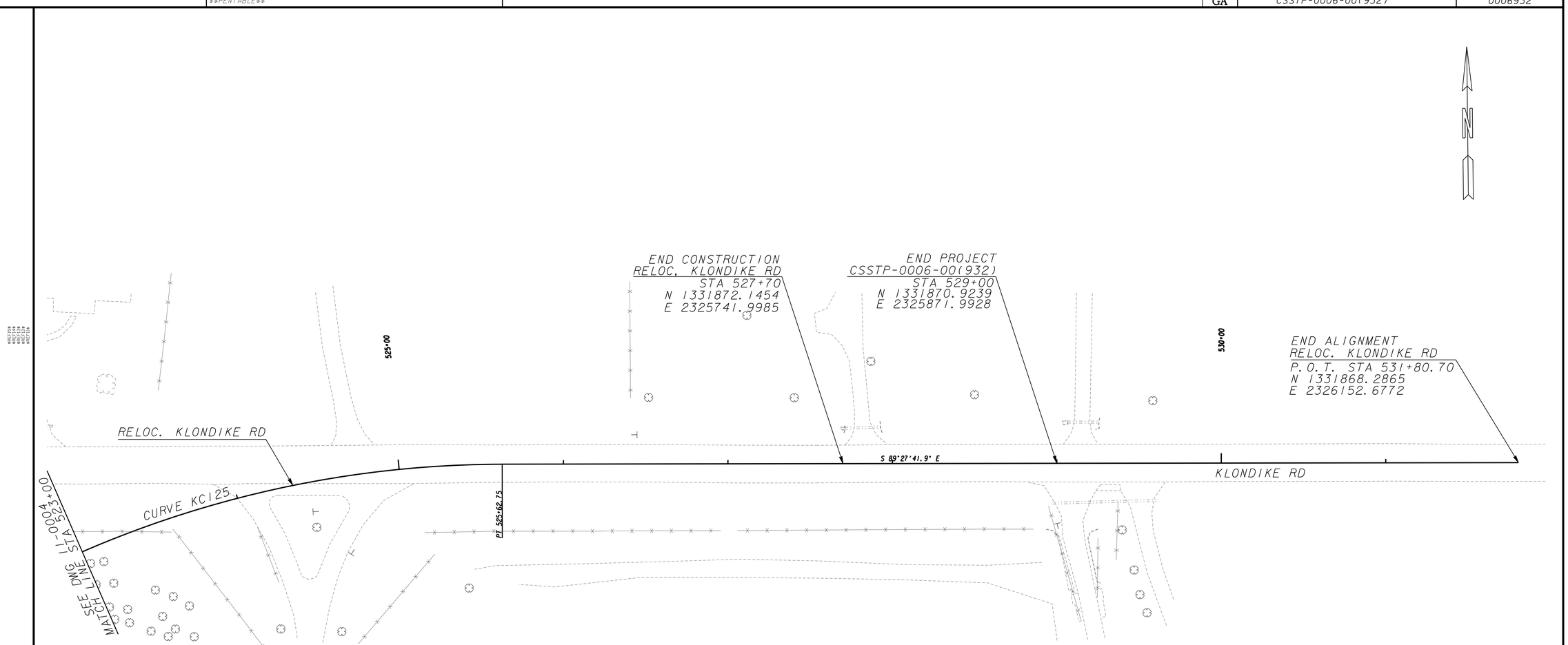
CONSTRUCTION LAYOUT

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 11-0004

3/1/2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET

0 30 60 120

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION LAYOUT

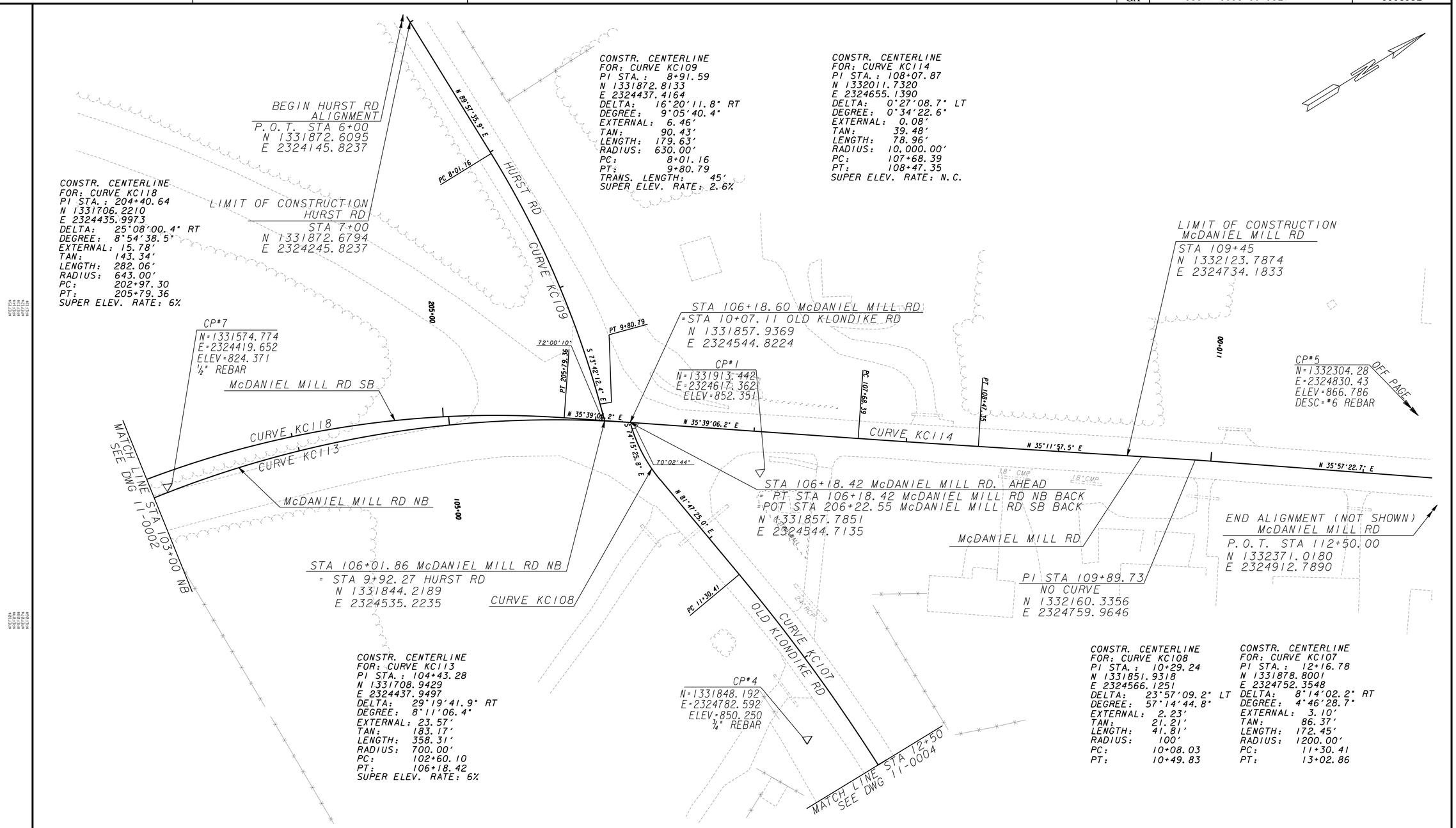
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 11-0005

3/1/2007 GPLN

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

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 30 60 120

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION LAYOUT

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 11-0006

3/1/2007 GPLN

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

JOSEPH A. WALL

PROJ CSSTP-0006-00(932)
BEGIN FULL-WIDTH CONSTRUCTION
RELOC. KLONDIKE RD
STA 503+00
N 1330902.9328
E 2323686.1383
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE 6%+-

JOHN DANIEL, ET AL

2

BEGIN WB TAPER
503+13.49

504+18.98
65'

PT 503+89.11

PC 504+18.98

500+00

501+00

502+00

503+00

504+00

505+00

503+89.11
65'

503+35
65'

REQ'D TEMP ESMT

REQ'D R/W

503+89.11
40.00'LT

504+18.98
40.00'LT

503+89.11
40.00'LT

4' DITCH

DRIVEWAY #2

12'

N 29°04'31.5" E

CLEAN OUT EXIST.
15" PIPE, REMOVE
EXISTING STUMP

8 SY
RIP-RAP,
TP 3

503+00.00
40.00'LT

503+00.00
39.31'LT

GRAVEL

EXIST DITCH

INV=834.69 15"RCP

532.18

DRIVEWAY #1

CURVE KC120

N 31°45'56.6" E

PC 500+62.18

N 54°49'21.8" E

PI 500+00.00

KLONDIKE ROAD

KLONDIKE RD

CURVE KC119

70'+/-

12'

14' ASPH

PT 504+65.90

505+00.55 FLAT

SEE DWG 13-0002
MATCH LINE 505+50 EB

END 6% CROSS SLOPE
503+75

GRAVEL

503+52.97
41.62'

504+65.91
43.69'

D'WAY ESMT

504+56.90
65'

504+29
43.49'

504+39
65'

502+80
40.36'

503+05
73.39'

D'WAY ESMT

503+18.14
84.65'

EXIST R/W

BEGIN PROJECT
CSSTP-0006-00(932)
STA 502+00
N 1330828.3513
E 2323619.6207

19

MILLS THOMAS I &
MARTHA INEZ MILLS

BEGIN CONSTRUCTION
CSSTP-0006-00(932)
STA 502+35
N 1330853.5021
E 2323643.9567

1

JEWELL A. JOYCE

PROPERTY AND EXISTING R/W LINE	P
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
EXISTING PAVEMENT TO BE RETAINED	
OBLITERATE OLD PAVEMENT	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

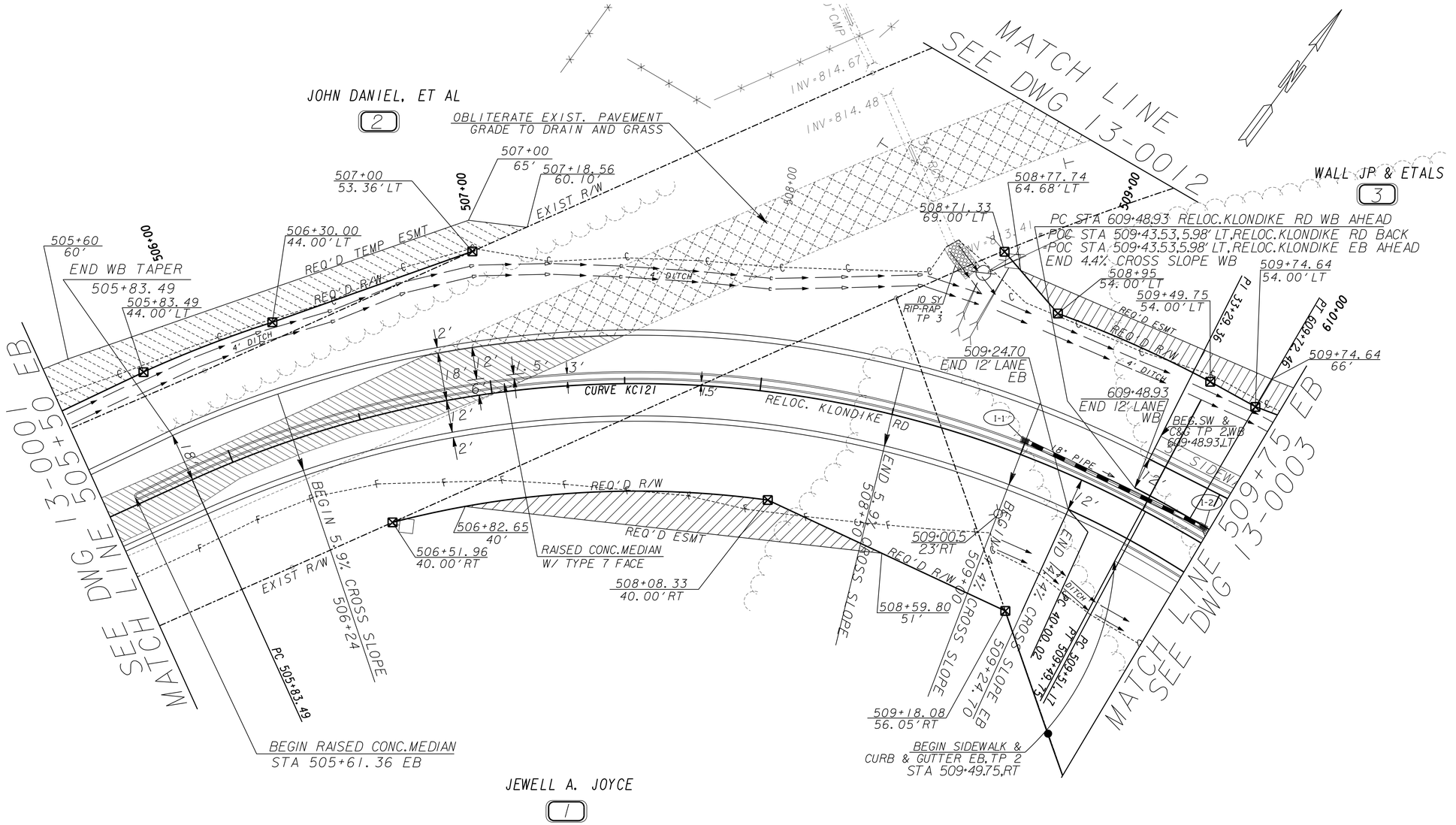
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0001

3/1/2007 GPLN

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



NOTE:
FOR LAYOUT OF EDGE OF PAVEMENT ALIGNMENTS, APPROACHING ROUNDABOUT, SEE DRAWINGS 11-0002 AND 11-0003

PROPERTY AND EXISTING R/W LINE	℄
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
EXISTING PAVEMENT TO BE RETAINED	
OBLITERATE OLD PAVEMENT	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

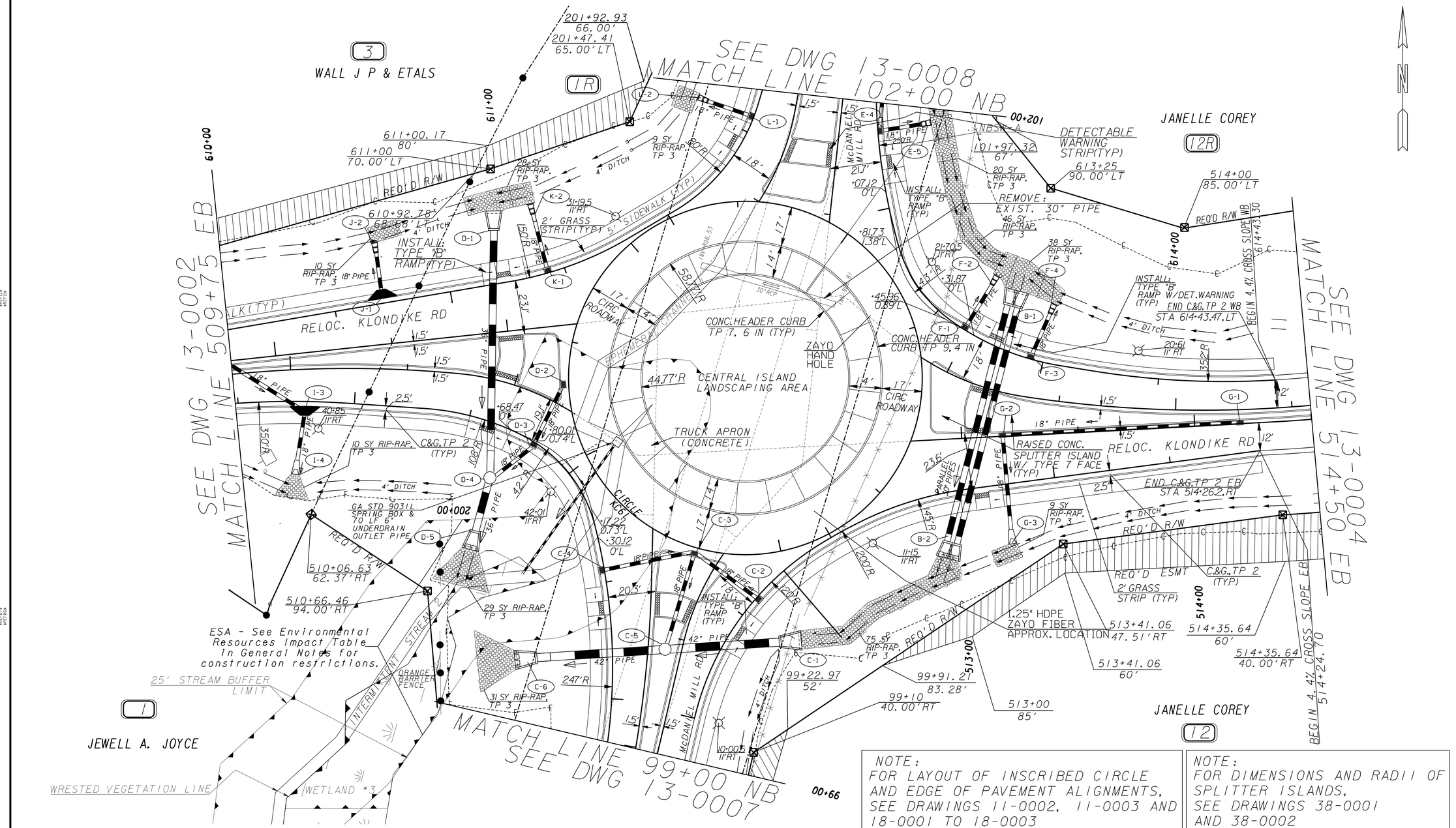
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0002

3//2007 GPLN

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



NOTE:
FOR LAYOUT OF INSCRIBED CIRCLE AND EDGE OF PAVEMENT ALIGNMENTS, SEE DRAWINGS 11-0002, 11-0003 AND 18-0001 TO 18-0003

NOTE:
FOR DIMENSIONS AND RADII OF SPLITTER ISLANDS, SEE DRAWINGS 38-0001 AND 38-0002

PROPERTY AND EXISTING R/W LINE — P —
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C — F —
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PAVEMENT TO BE RETAINED
OBLITERATE OLD PAVEMENT
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0003

3/1/2007 GPLN

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

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

SEE DWG 13-0003
MATCH LINE 514+50 EB

REQ'D R/W

515+00.00
90.00'LT

POC STA 514+51.82 RELOC KLONDIKE AHEAD
=POC STA 514+51.82 RELOC KLONDIKE EB BACK
=PT STA 614+59.44 6.00'LT RELOC KLONDIKE WB BACK

JANELLE COREY
12R

6' CHAINLINK FENCE

HISTORICAL RESOURSE BOUNDARY

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

NEW HOPE BAPTIST CHURCH
5

20R
JANELLE COREY

514+96
29'LT

4' DITCH

515+00

516+00

517+00

517+00.00
90.00'LT

517+40.26
76'

517+91.10
76'

517+72.58
60.46'LT

518+00

BEGIN N.C. WB
518+19.31

END N.C. WB
518+54.88

519+00

519+25
65'

519+25.00
42.00'LT

520+00

REQ'D ESMT

518+99.55
FLAT

518+00.00
45.00'LT

REQ'D R/W

4' DITCH

BEGIN WB TAPER
517+61.38

CURVE KC124

3' 1.5' W.5' 1.5' W.5'

2'
12'
6'

RELOC. KLONDIKE RD

18' 1.35'R(TYP)

N 40°59'43.0" E

12'
2'

SEE DWG 13-0005
MATCH LINE STA 520+00

END 4.4% CROSS SLOPE
514+85

REQ'D 5.4% ESMT

REQ'D R/W

515+35
CROSS SLOPE

4' DITCH

RAISED CONC.MEDIAN
W/ TYPE 7 FACE

516+00
60'

JANELLE COREY
12

516+73.00
40.00'RT

516+58.82
62'

END 5.9% CROSS SLOPE
517+03.63

517+61.38
40.00'RT

517+61.38
68'

RT 517+61.38

END RAISED CONC.MEDIAN
STA 517+64.50 EB

REQ'D ESMT

518+78.63
FLAT EB

519+25
62'

BEGIN N.C. EB
519+37.96

END N.C. EB
519+44.22

20
JANELLE COREY

PROPERTY AND EXISTING R/W LINE	EXISTING PAVEMENT TO BE RETAINED
REQUIRED R/W LINE	OBLITERATE OLD PAVEMENT
CONSTRUCTION LIMITS	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

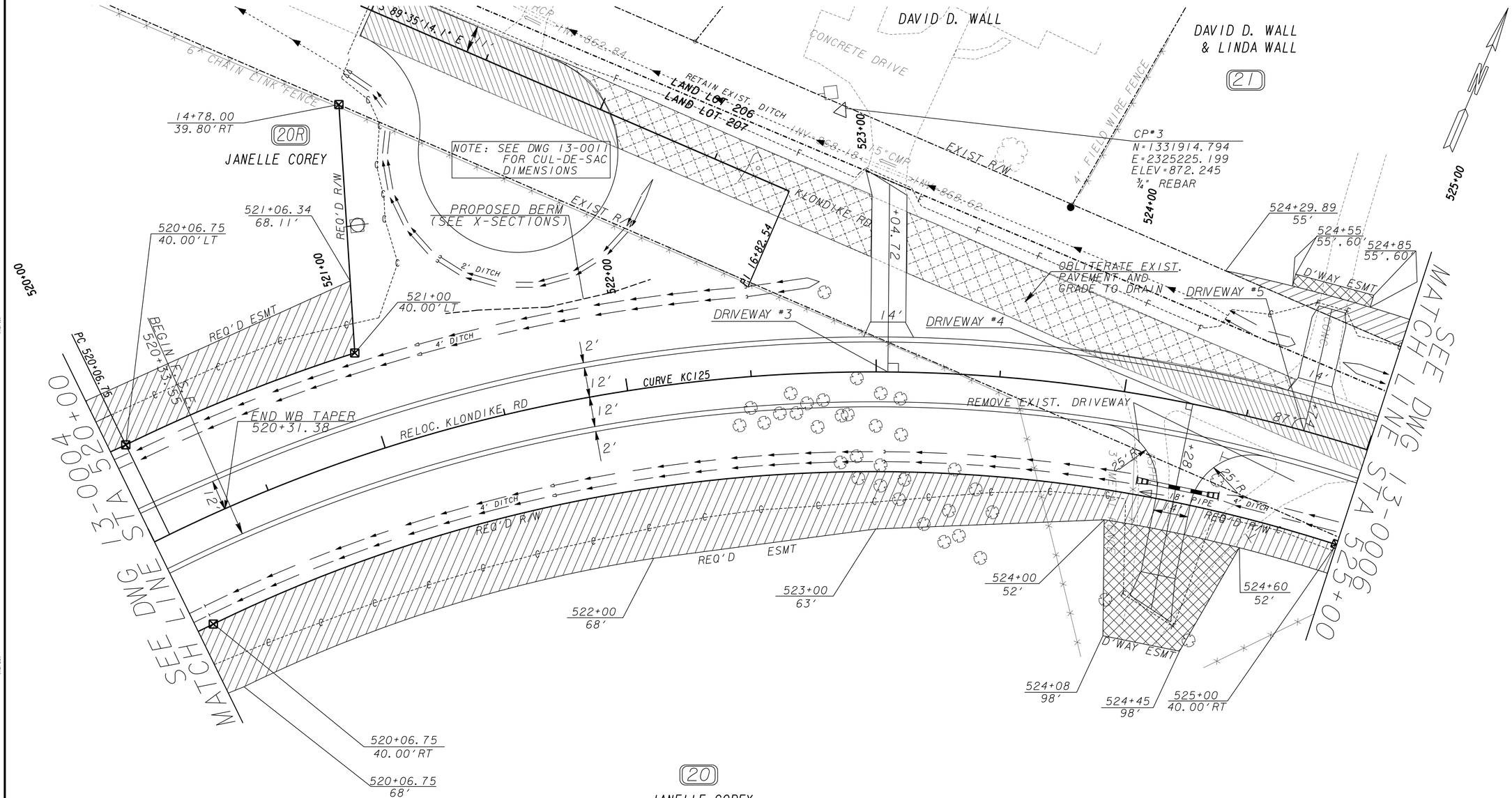
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0004

3//2007 GPLN

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



20

JANELLE COREY

PROPERTY AND EXISTING R/W LINE	EXISTING PAVEMENT TO BE RETAINED
REQUIRED R/W LINE	OBLITERATE OLD PAVEMENT
CONSTRUCTION LIMITS	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0005

3/1/2007 GPLN

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

21

DAVID D. WALL
& LINDA WALL

22

BRUCE ELIZABETH M

WADE BRADFORD

N

END PROJECT
CSSTP-0006-00(932)
STA 529+00
N 1331870.9239
E 2325871.9928

525+00

525+00
55'

525+25
61'

END F.S.E.
525+35.95

525+62.75
55'

526+00

526+41.59
55'

4' CHAINLINK FENCE

527+00
68'

527+48
60'

527+70
40.61'

528+00

529+00

530+00

4' DITCH

BEG F.S.E.
526+96.95

BEG N.W.C. WB
527+14.68

EXIST R/W

ASPH.

CONC.

INV=860.20

INV=859.29

LAND LOT 206
LAND LOT 207

INV=866.82
BRICK STR. 15" RCP

INV=865.82

EXIST DITCH

BRICK STR. 15" RCP

12' T

12'

KLONDIKE RD

12'

12'

12'

12'

SEE DWG 13-0005
MATCH LINE STA 525+00

BEG N.W.C. EB
526+25.28

BEGIN CROSS SLOPE TRANSITION
STA 527+25

END N.C. BEGIN TRANSITION TAPER

CONC.

INV=860.50

EXIST DITCH

15" RCP

INV=857.59

GATE

6' CHAINLINK FENCE

EXIST R/W

525+25
38.59'

ROW OF CYPRESS BUSHES

ASPH.

ASPH.

PT 525+62.75

525+05.02
37.23'RT

525+00
40.00'RT

525+05
52'

PROJ CSSTP-0006-00(932)
END CONSTRUCTION
RELOC. KLONDIKE RD
STA 527+70
N 1331872.1454
E 2325741.9985
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE

CONC.

CONC.

AUTOMATIC GATE

20

JANELLE COREY

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PAVEMENT TO BE RETAINED
OBLITERATE OLD PAVEMENT
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 13-0006

3/1/2007 GPLN

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

LIMIT OF CONSTRUCTION, McDANIEL MILL RD
STA 94+10
N 1330718.5883
E 2324186.4344
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE

JEWELL A. JOYCE
1
SEE SHEET 12

END SHOULDER & DITCH
TRANSITION TAPER
STA 94+50, NB

25' STREAM BUFFER LIMIT

START PERENNIAL STREAM 4

WRESTED VEGETATION LINE

INTERMITTENT STREAM 2

WETLAND 3

INTERMITTENT

94+00 95+00 96+00 97+00 98+00

EXIST R/W

WRESTED VEGETATION LINE

PERENNIAL STREAM 4

PERENNIAL STREAM 4

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

ORANGE BARRIER FENCE

BEGIN 346' SB TAPER
94+82.56

PC STA 198+28.63 McDANIEL MILL RD SB AHEAD
=POC STA 98+28.56, 7.67' LT McDANIEL MILL RD BACK
=POC STA 98+28.56, 7.67' LT McDANIEL MILL RD NB AHEAD
BEGIN/END 5.0% CROSS SLOPE SB

ORANGE BARRIER FENCE

EXIST R/W

EXIST R/W

STA 94+31
G.R. ANCHORAGE, TP 1
BEGIN W-BEAM

BEGIN RAISED CONC. MEDIAN
STA 97+67.50 NB

RAISED CONC. MEDIAN
W/ TYPE 7 FACE

BEGIN SIDEWALK
& C&G TP 2, SB,
STA 198+83.4

PT 43+37.29

PT 43+38.82

199+00
53.43' LT

86.00' LT
199+00

END 5.5% CROSS SLOPE SB

199+00

PC 198+28.63

STA 97+27
TYPE 12A TERMINAL
END W-BEAM

6.5' TYP

11 SY
RIP-RAP,
TP 1

H-4

W-BEAM GUARDRAIL

2' 12' 2' 12' 2'

N 13°35'58.5" E

CURVE KC110

12' 12' 2'

45' R (TYP)

H-3

19.67'

N 19°27'55.2" E

McDANIEL MILL RD

1.5' 12' CURVE KC116

18" PIPE

1.5' 12' CURVE KC111

H-1

18" PIPE

H-2

2' 12' BEG. SIDEWALK
C&G TP 2, NB,
STA 98+84.04

98+30.5
23' RT

PI 93+99.58

4' DITCH

4' DITCH

EXIST R/W

REQ'D R/W

REQ'D ESMT

END CROSS SLOPE TRANSITION
BEGIN 3.3% CROSS SLOPE
STA 94+80 NB

95+75
47.55'

96+00
52'

END 3.3% CROSS SLOPE
STA 96+53.68 NB

PT 96+68.68

96+68.68
52'

FLAT NB & SB
97+23.21

98+28.56
7.67' LT
END 346'
SB TAPER

97+34.97
40.00' RT

98+14.09
50'

PC 98+14.09

98+14.09
40.00' RT

BEGIN 5% CROSS SLOPE NB
98+28.56

END 5% CROSS SLOPE NB
98+50

98+84.04
40.00' RT

98+84.04
50'

PT 98+84.04

SEE DWG 13-0003
MATCH LINE 99+00

00.66

JANELLE COREY
12

NOTE:
FOR LAYOUT OF EDGE OF PAVEMENT ALIGNMENTS, APPROACHING ROUNDABOUT, SEE DRAWINGS 11-0002 AND 11-0003

PROPERTY AND EXISTING R/W LINE	EXISTING PAVEMENT TO BE RETAINED
REQUIRED R/W LINE	OBLITERATE OLD PAVEMENT
CONSTRUCTION LIMITS	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

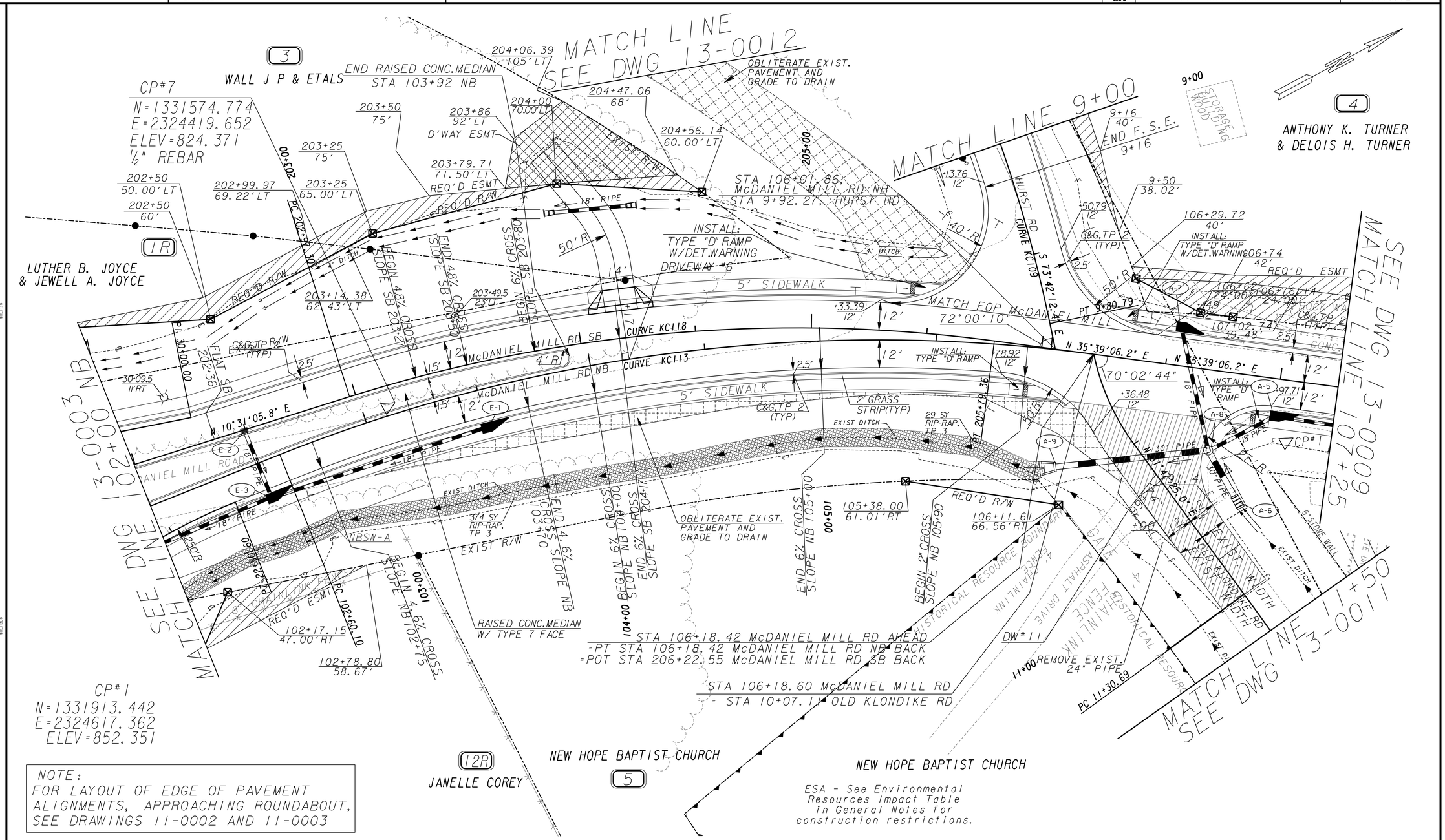
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0007

3/1/2007 GPLN

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



NOTE:
FOR LAYOUT OF EDGE OF PAVEMENT ALIGNMENTS, APPROACHING ROUNDABOUT, SEE DRAWINGS 11-0002 AND 11-0003

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PAVEMENT TO BE RETAINED
OBLITERATE OLD PAVEMENT
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

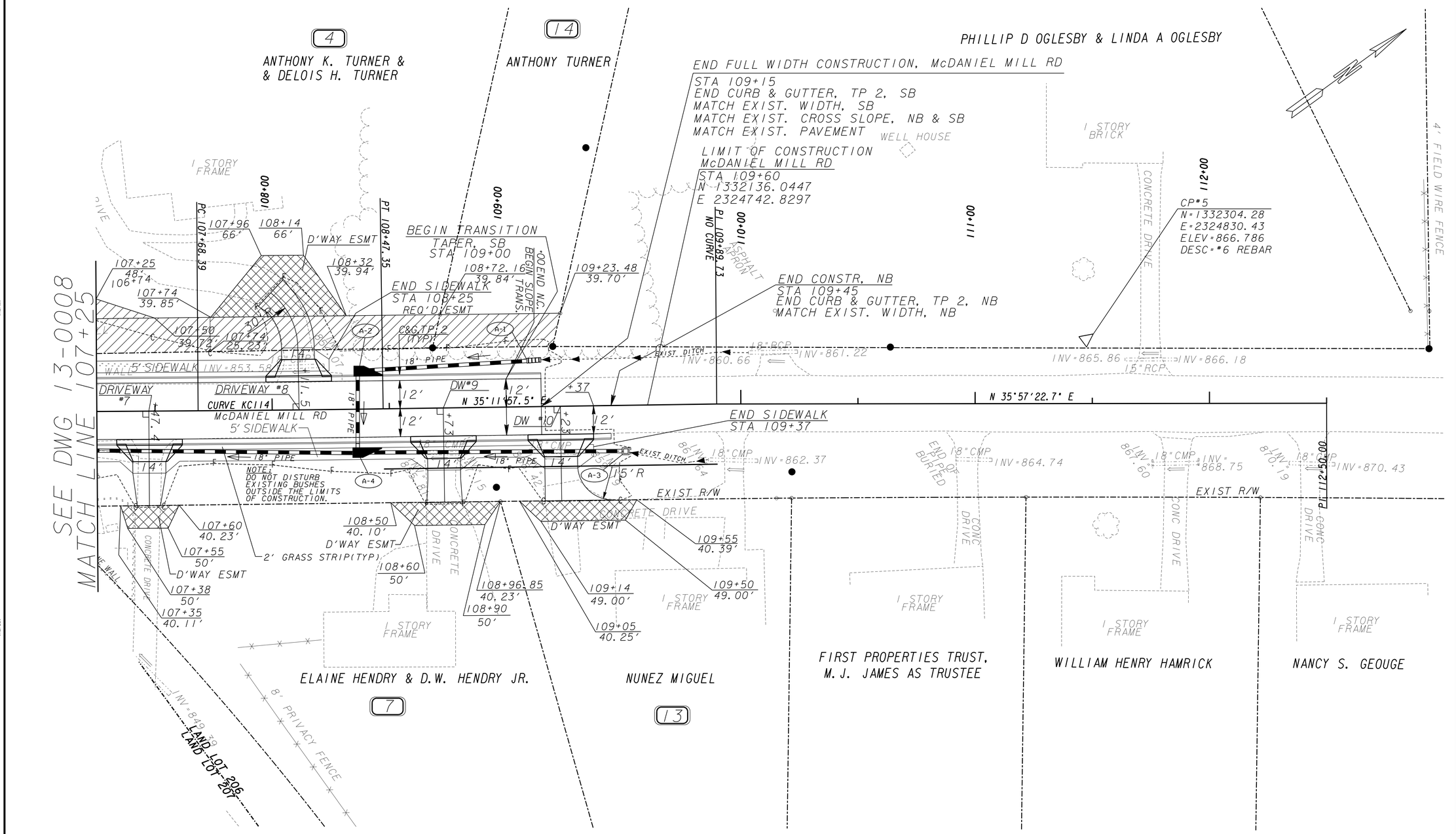
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0008

3/1/2007 GPLN

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



PROPERTY AND EXISTING R/W LINE	EXISTING PAVEMENT TO BE RETAINED
REQUIRED R/W LINE	OBLITERATE OLD PAVEMENT
CONSTRUCTION LIMITS	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PLAN

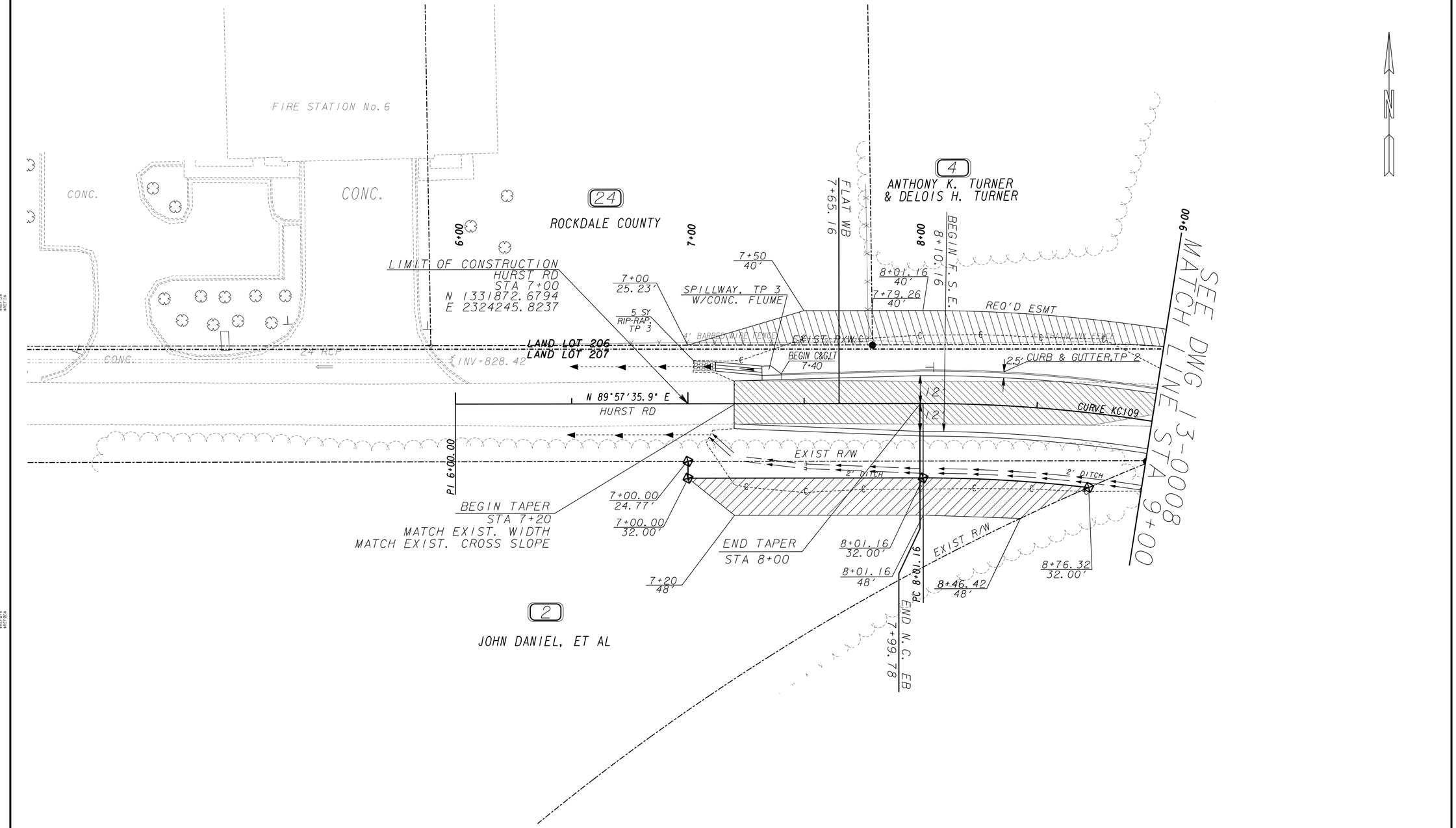
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0009

3/1/2007 GPLN

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

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



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PAVEMENT TO BE RETAINED
OBLITERATE OLD PAVEMENT
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-8900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

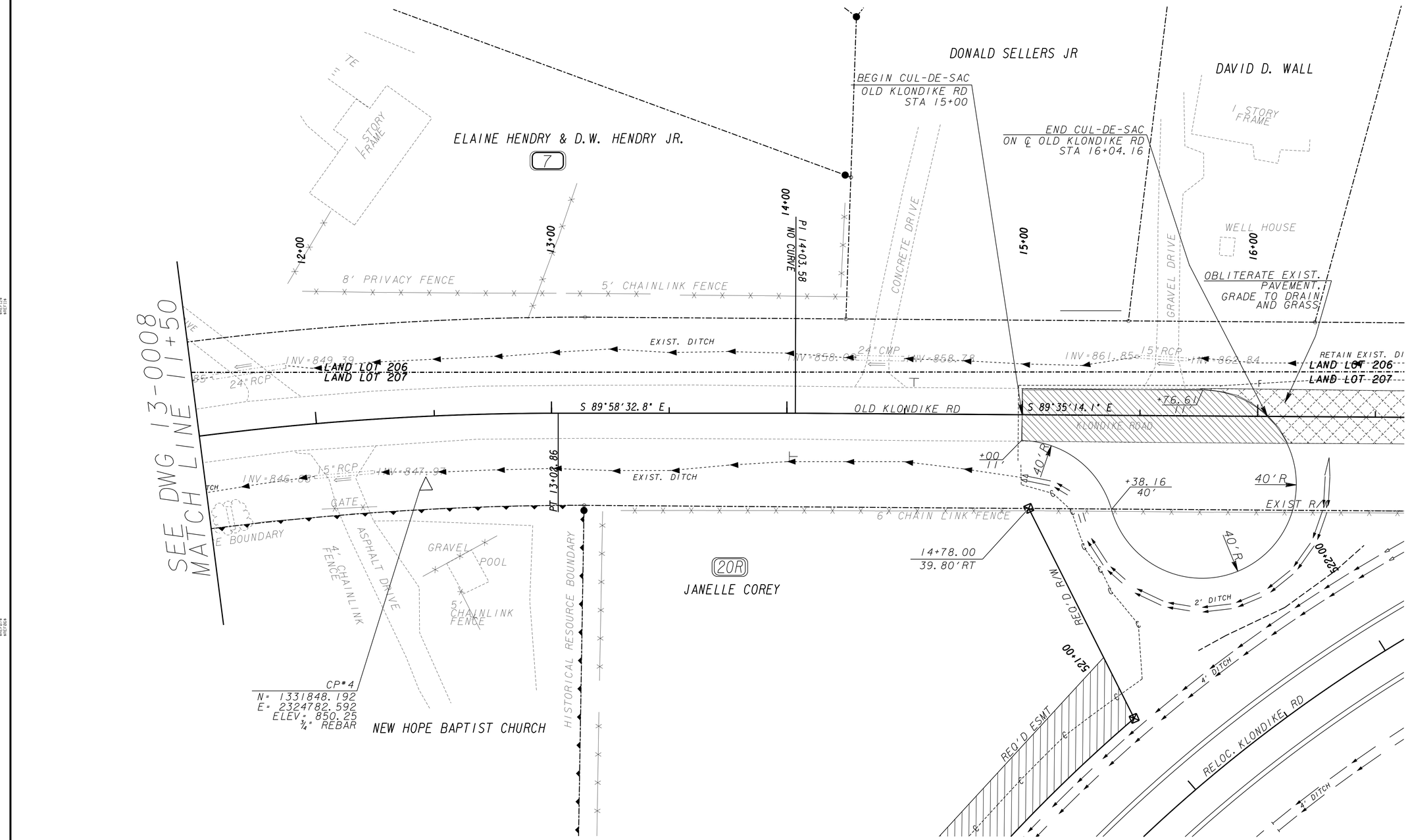
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 13-0010

3/1/2007 GPLN

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



PROPERTY AND EXISTING R/W LINE	EXISTING PAVEMENT TO BE RETAINED
REQUIRED R/W LINE	OBLITERATE OLD PAVEMENT
CONSTRUCTION LIMITS	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

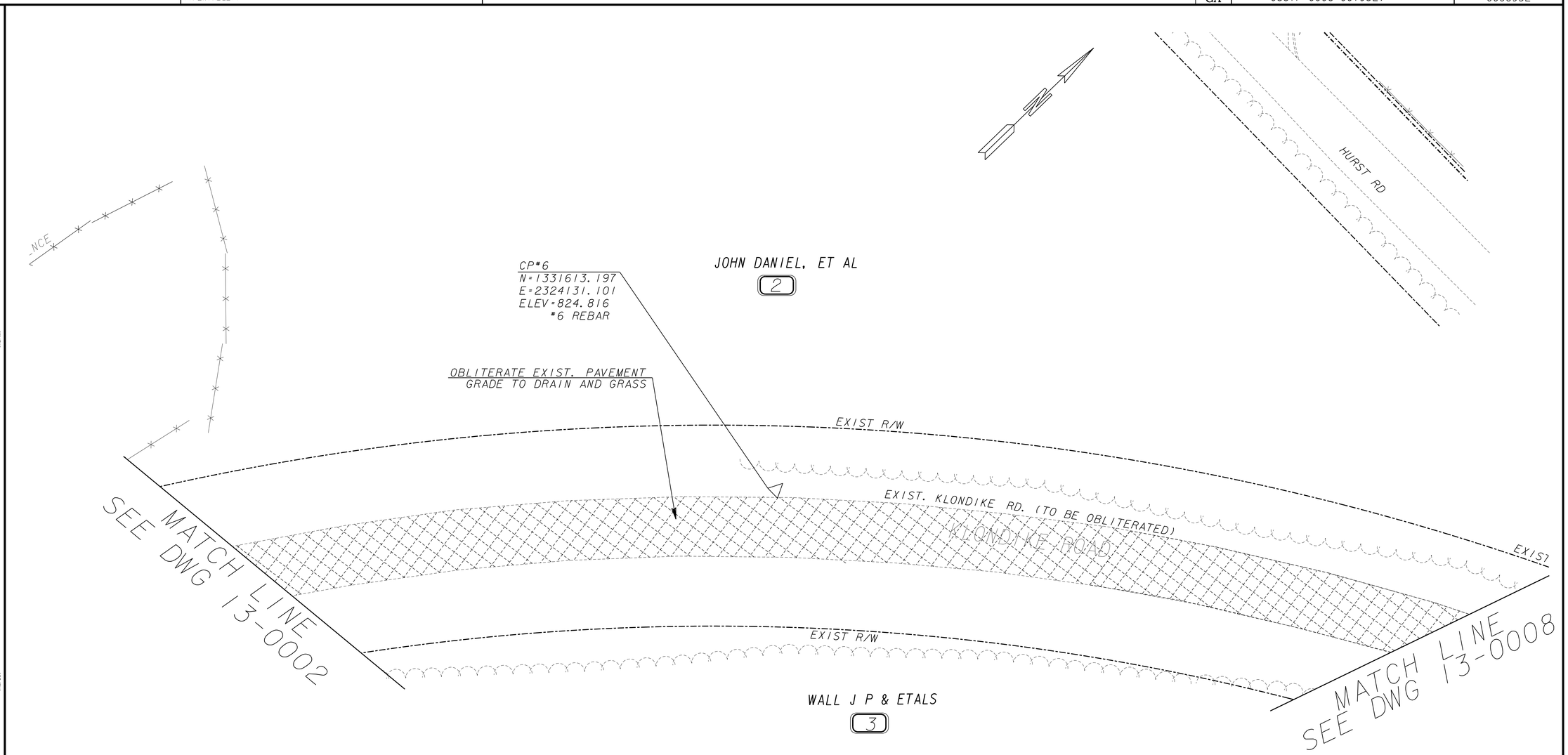
MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 13-0011

3//2007 GPLN

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



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PAVEMENT TO BE RETAINED
OBLITERATE OLD PAVEMENT
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PLAN

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

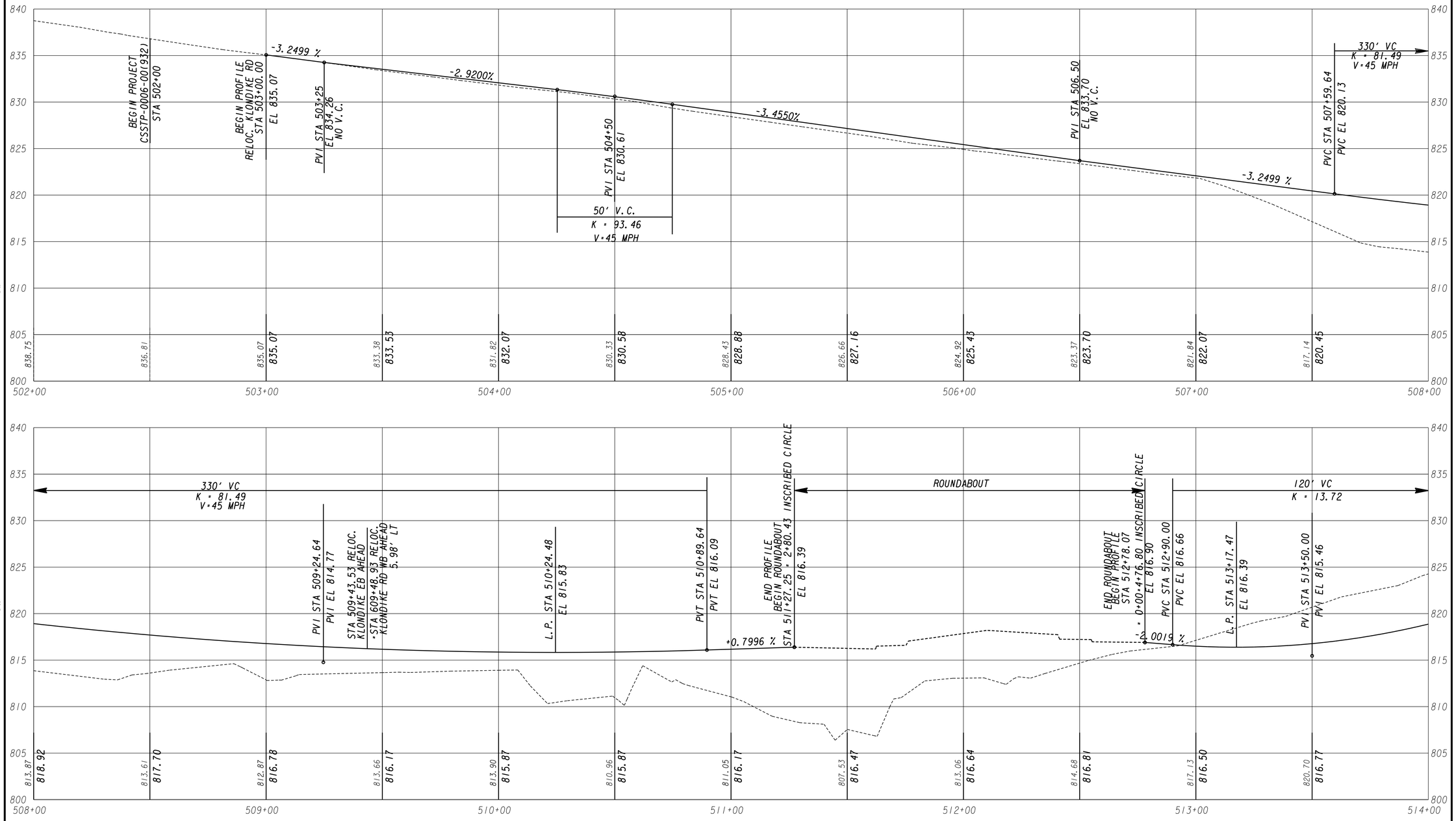
DRAWING No.
13-0012

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



3/1/2007 GR220E

QK4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

RELOC. KLONDIKE RD
RELOC. KLONDIKE RD EB

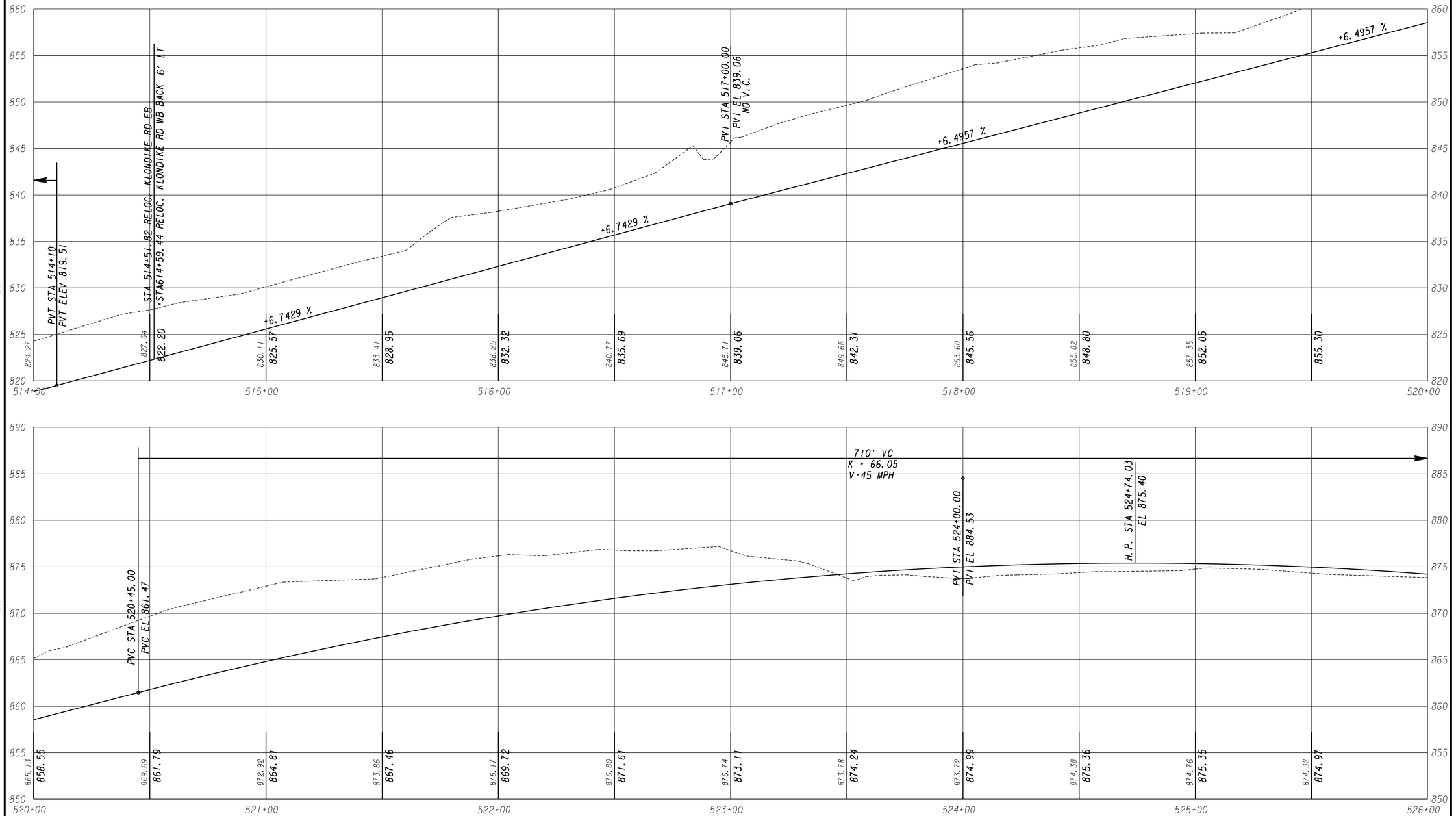
DRAWING No. 15-0001

...\dgn\0006932PR01.DGN 4/12/2018 3:42:43 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

RELOC. KLONDIKE RD

RELOC. KLONDIKE RD EB

DRAWING No. 15-0002

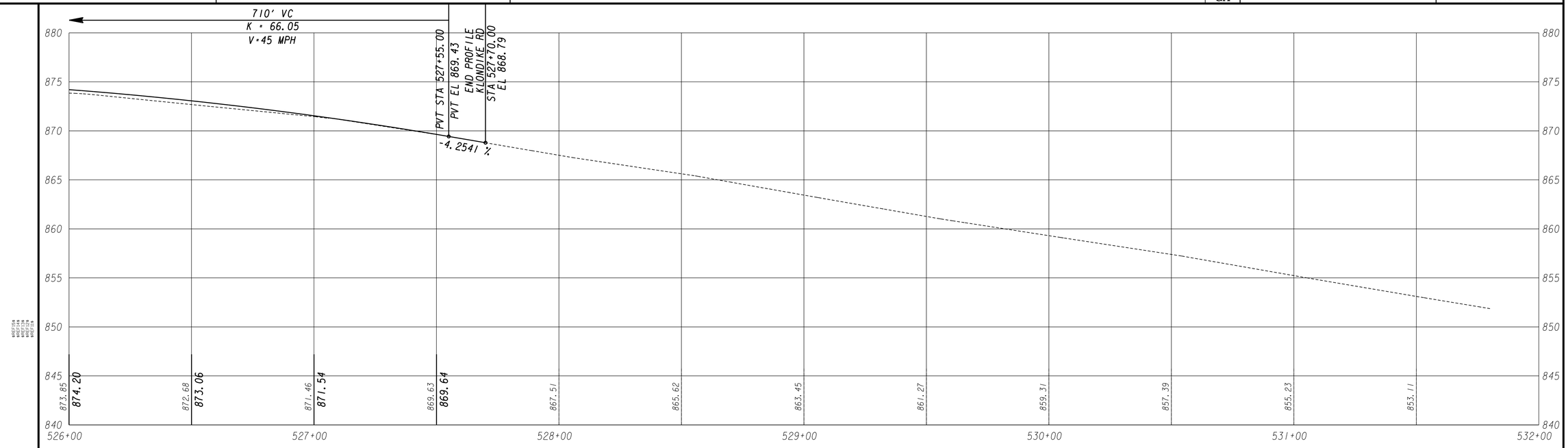
3//2007 GR220E

D:\prof\006932PR01.DGN 4/12/2018 3:43:06 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

RELOC. KLONDIKE RD
RELOC. KLONDIKE RD EB

DRAWING No.
15-0003

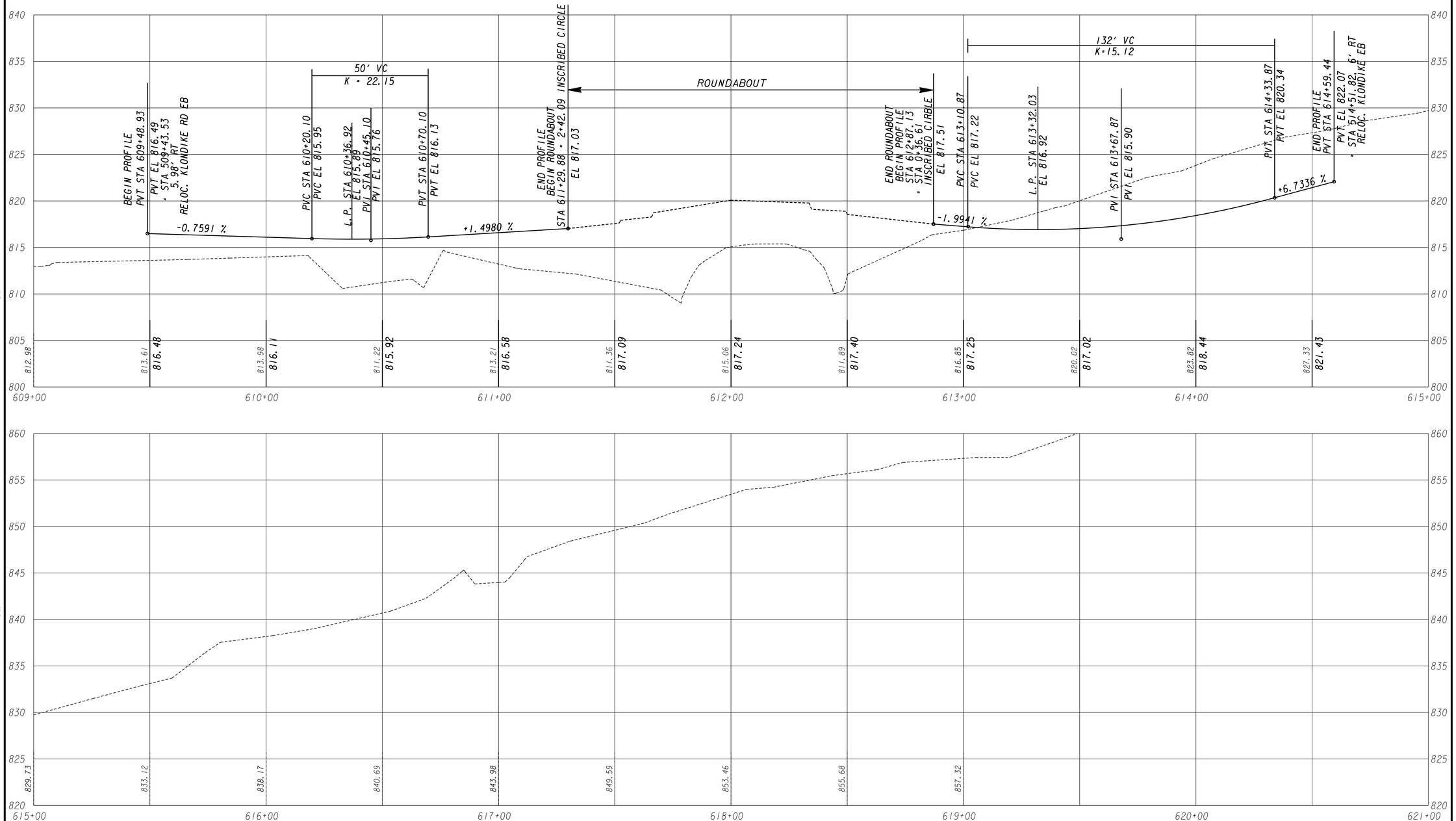
3/1/2007 GR220E

$$EF$$
$$EF$$
$$EF$$
$$EF$$
$$EF$$
$$EF$$

$$EF$$
$$EF$$
$$EF$$
$$EF$$
$$EF$$
$$EF$$

...\Dgn\006932PROL.DGN 4/12/2018 3:43:26 PM

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P. I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES		

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

RELOC. KLONDIKE RD WB

DRAWING No. 15-0004

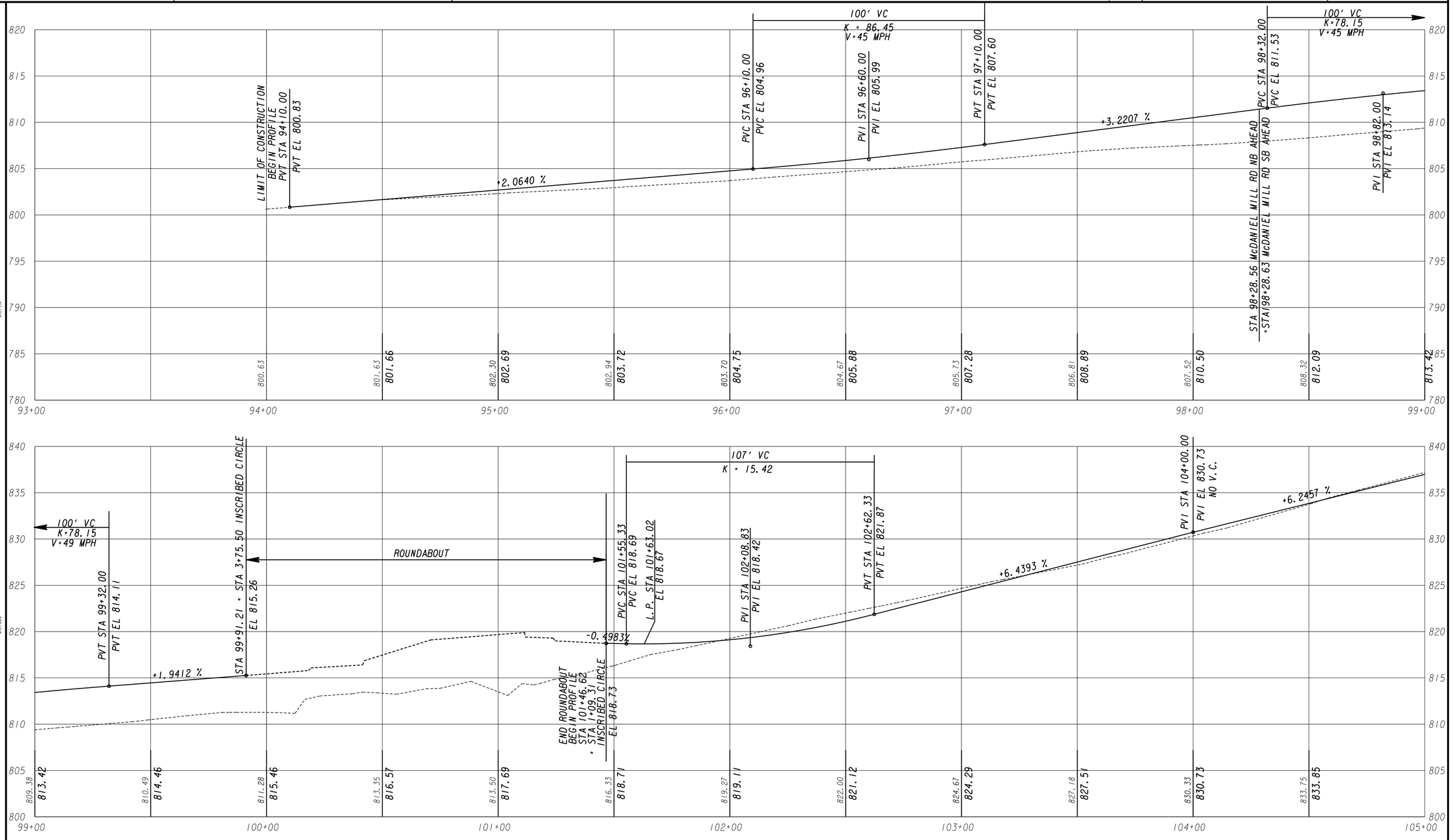
3//2007 GR220E

...\Dgn\0006932PH02.dgn 4/12/2018 3:40:17 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3//2007 GR220E

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

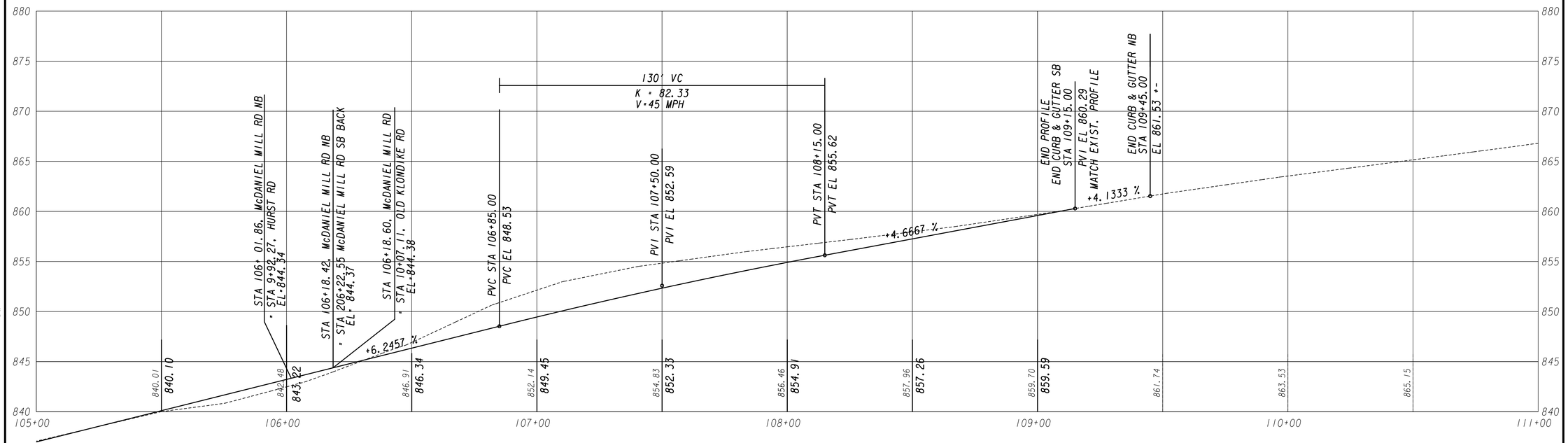
MAINLINE PROFILE

McDANIEL MILL RD
McDANIEL MILL RD NB

DRAWING No. 15-0005

...\Dgn\0693GPR03.DGN 4/12/2018 3:38:01 PM

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P. I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

McDANIEL MILL RD
McDANIEL MILL RD NB

DRAWING No.
15-0006

3/1/2007 GR220E

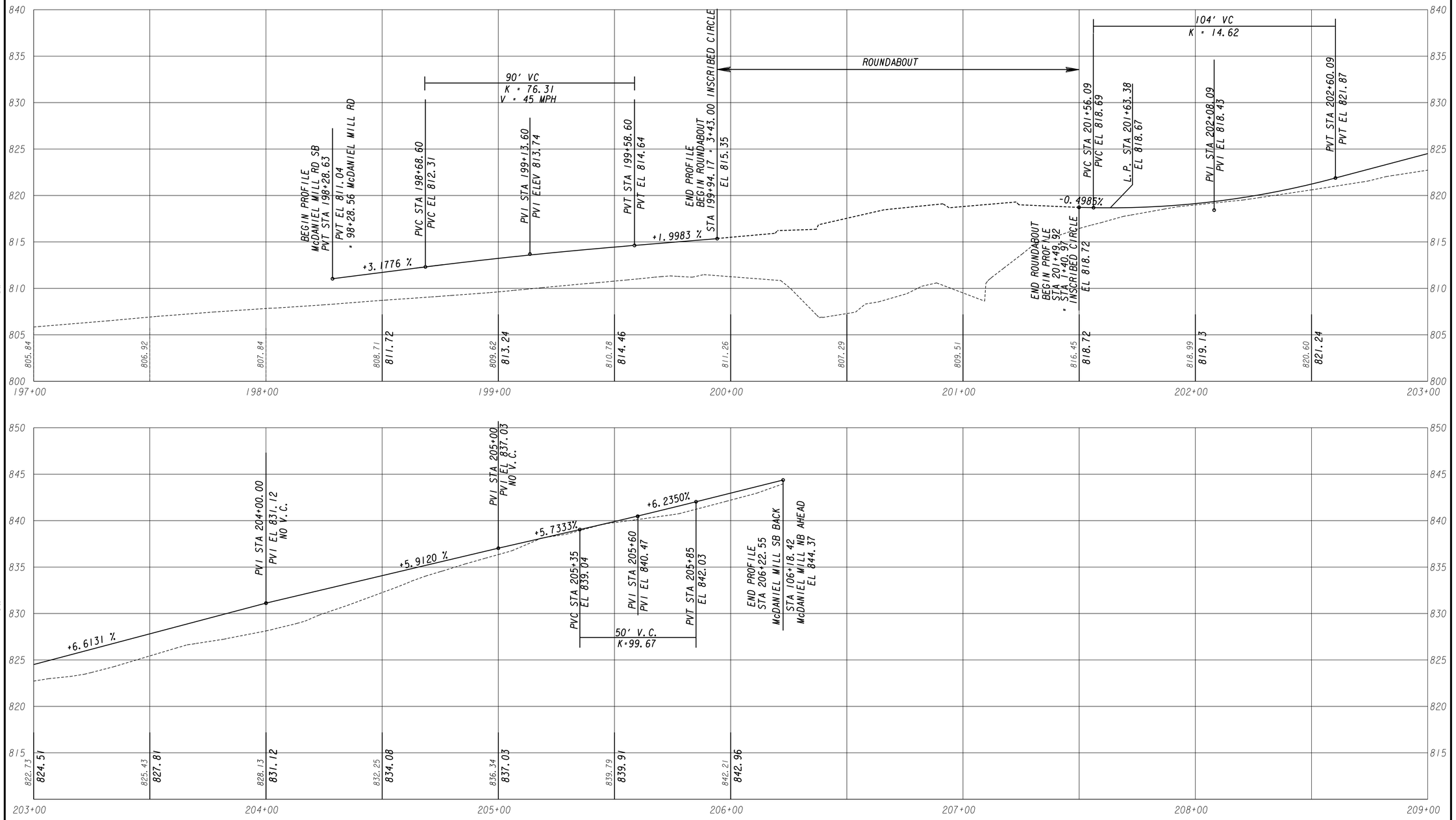
$$SEP04 $$SEP04 $$SEP04 $$SEP04 $$SEP04 $$SEP04 $$SEP04 $$SEP04

...\Dgn\006932PH03.DGN 8/9/2018 7:11:43 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES		

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

MAINLINE PROFILE

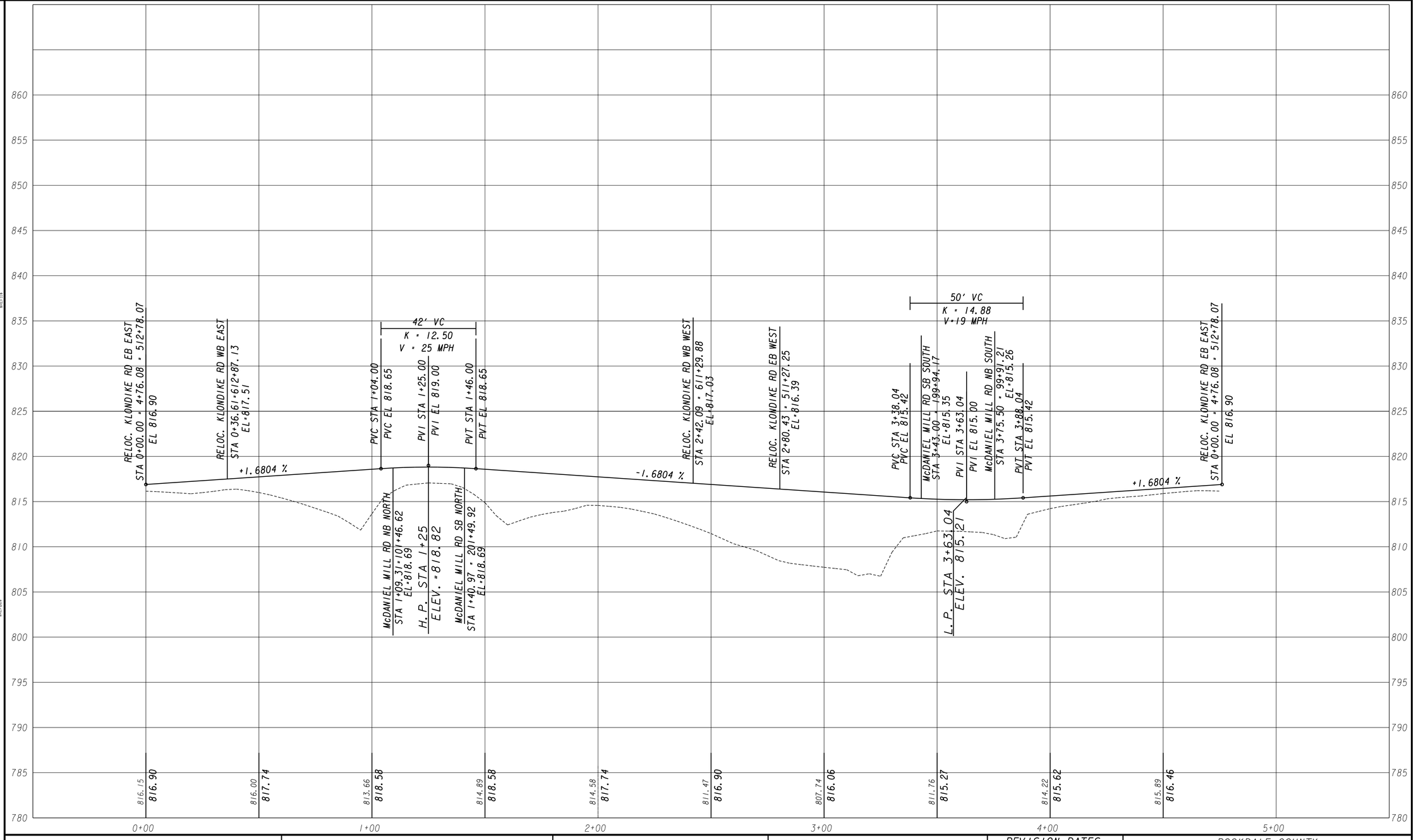
McDANIEL MIL RD SB

DRAWING No.
15-0007

3/1/2007 GR220E

...\Dgn\0006932PRF04.DGN 4/12/2018 3:35:27 PM

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

ROUNDABOUT INSCRIBED CIRCLE PROFILE

DRAWING NO.
15-0008

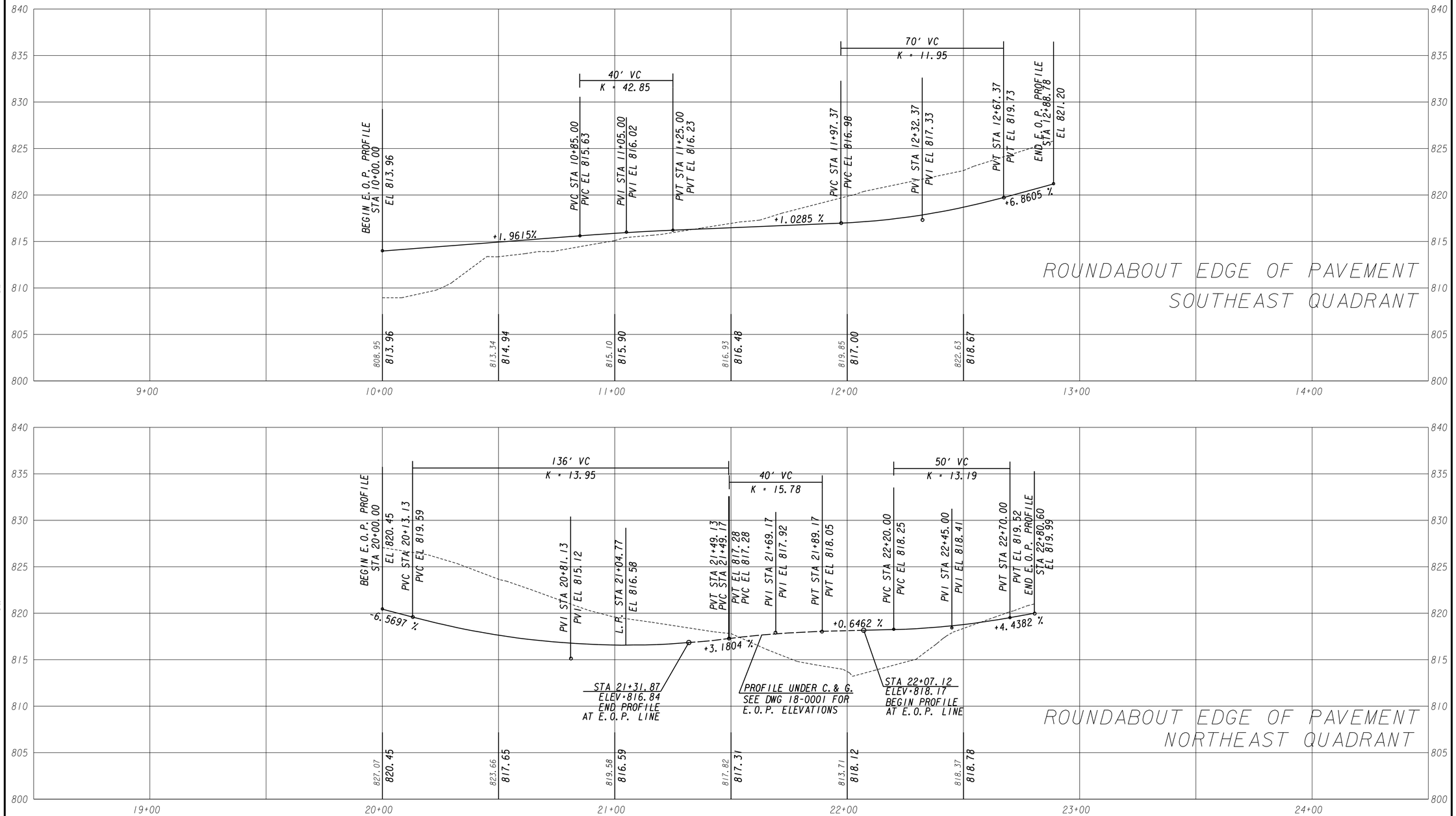
3/1/2007 G20EDG

...\Dgn\0006932PR05.DGN 4/12/2018 3:33:31 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

ROUNDABOUT EDGE PROFILES

S.E. & N.E. QUADRANTS

DRAWING No. 15-0009

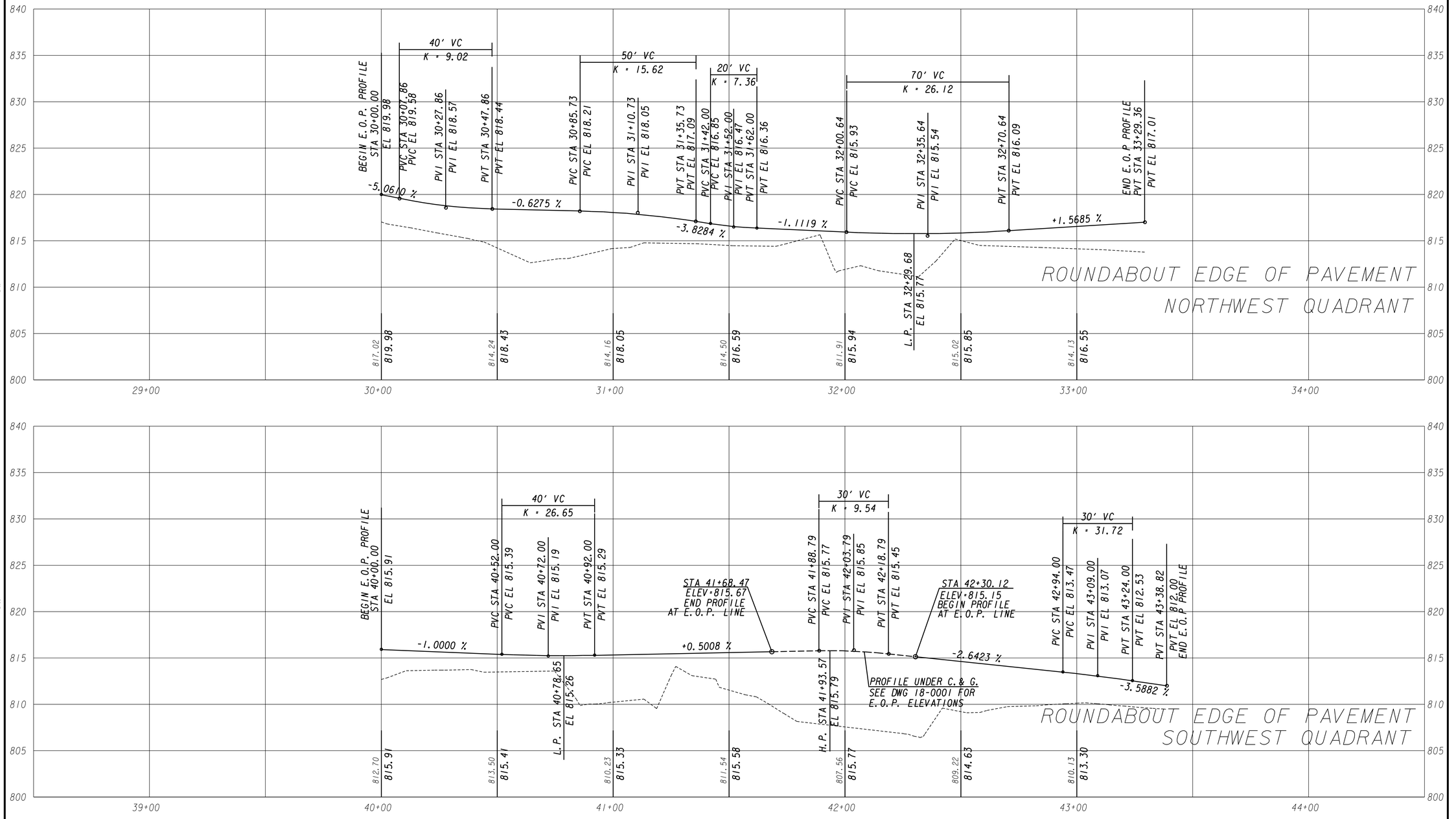
3//2007 GR220E

...\Dgn\0006932PR06.DGN 4/12/2018 3:31:59 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

ROUNDABOUT EDGE PROFILES

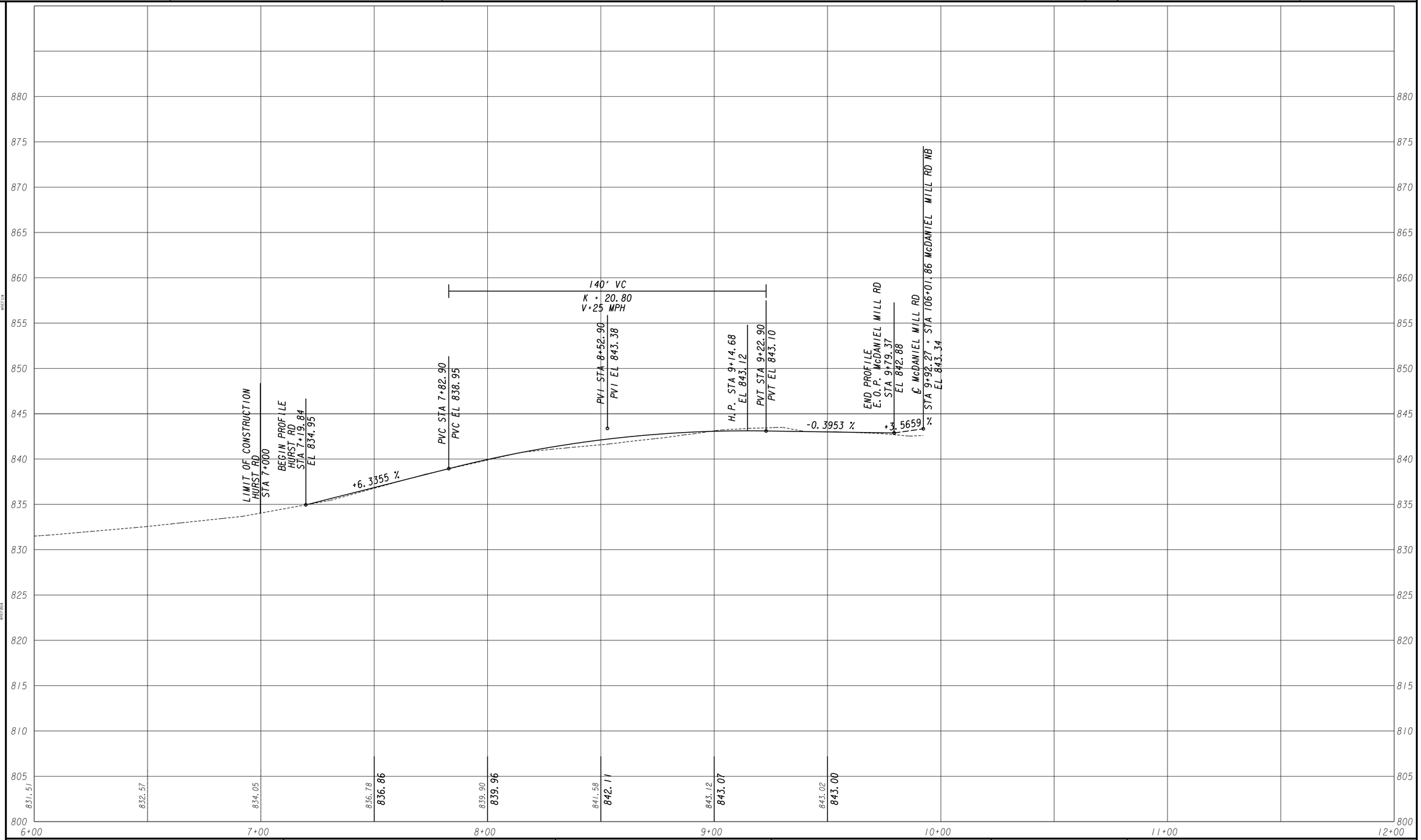
N.W. & S.W. QUADRANTS

DRAWING No. 15-0010

3//2007 GR220E

Dgn\0006932PR07.DGN 4/12/2018 3:30:22 PM

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P. I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES		

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CROSSROAD PROFILE

HURST RD

DRAWING NO.
16-0001

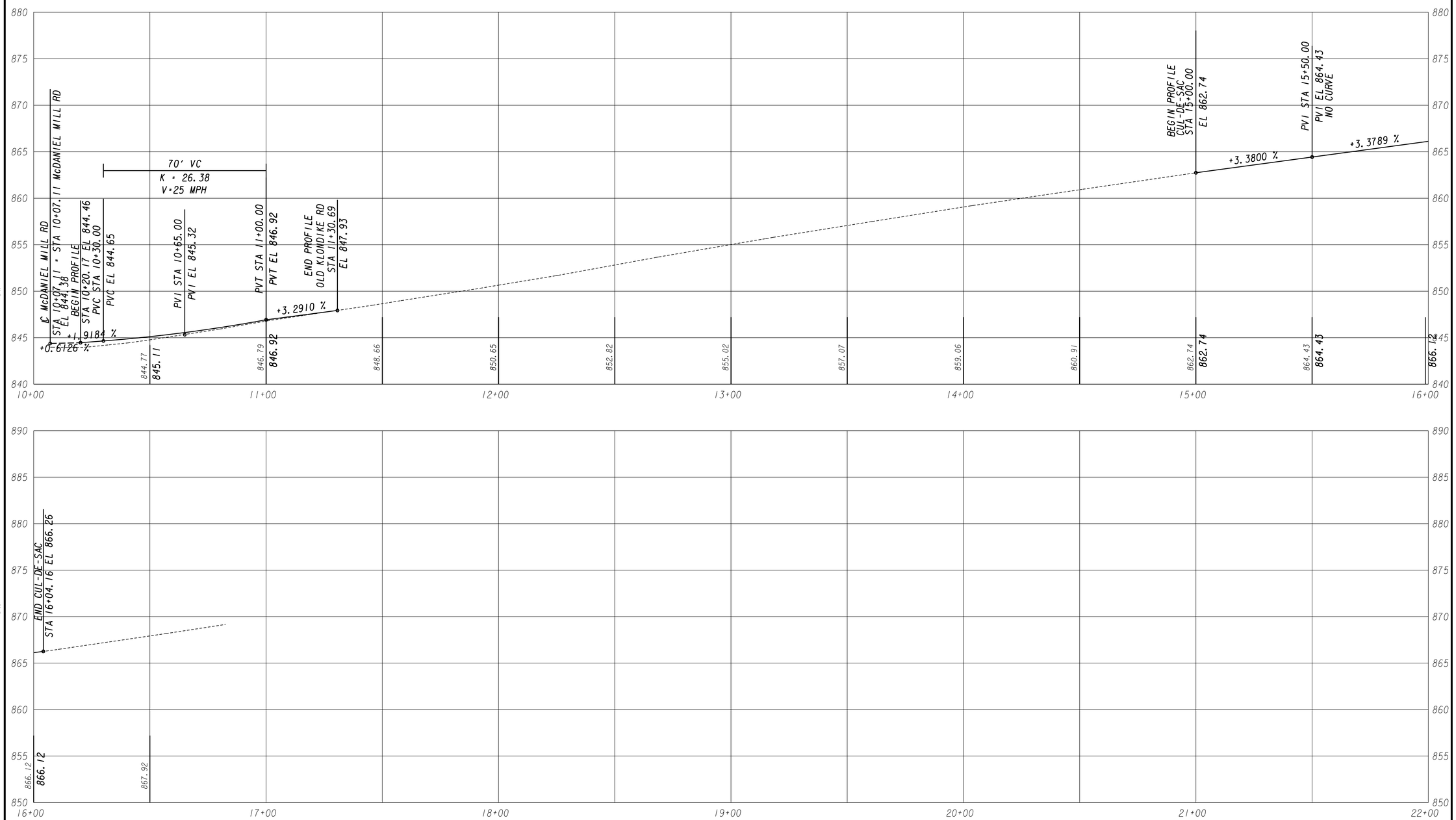
3/1/2007 G20E.DG

...\Dgn\0006932PR08.DGN 4/12/2018 3:45:02 PM

DATE$$$ | TIME$$$ | PRF | DGN

$USER$ | $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, Georgia 30092
(404) 329-5900

HORIZ: SCALE IN FEET
0 20 40 80

VERT: SCALE IN FEET
0 5 10 20

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CROSSROAD PROFILE

OLD KLONDIKE RD

DRAWING No. 16-0002

3//2007 GR220E

I:\gm\006932PR06.DGN 4/12/2018 3:46:23 PM

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

DRIVEWAY #6
104+17
McDANIEL MILL RD, NB
LT

@ NB
@ SB
EXIST R/W
+2%
5'VC
CONCRETE DRIVE
+14.91%
PVI OFFSET
39'LT/833.7
PROP 18" SIDE DRAIN PIPE UNDER DRIVEWAY
10'VC
PVI OFFSET
95.1'LT/825.3
LIMIT OF CONST
100.1'RT/825.2

DRIVEWAY #5
524+74
KLONDIKE RD
LT

E.O.P.
12'
5'VC
+3.4%
+4%
-4%
EXIST R/W
PVI OFFSET
22.5'LT/876.75
PVI OFFSET
32.7'LT/876.4
CONCRETE DRIVE
LIMIT OF CONST
50'LT/877.0
Skew = 87°

DRIVEWAY #4
524+28
KLONDIKE RD
RT

LIMIT OF CONST
84'RT/873.2
-4.6%
10'VC
ASPHALT DRIVE
+0.5%
PROP 18" RCP UNDER DRIVEWAY
EXIST R/W
10'VC
E.O.P.
12'
PVI OFFSET
60'RT/874.3
PVI OFFSET
19'RT/874.1

DRIVEWAY #3
523+04.72
KLONDIKE RD
LT

E.O.P.
12'
5'VC
PVI OFFSET
23'LT/874.6
CONCRETE DRIVE
+10.7%
12'VC
-6%
PVI OFFSET
65'LT/870.1
LIMIT OF CONST
75'LT/870.7
EXIST R/W
EXIST. 15" RCP PIPE UNDER EXIST. DRIVEWAY TO REMAIN

DRIVEWAY #2
504+49
KLONDIKE RD
RT

LIMIT OF CONST
55'RT/828.1
-6.7%
5'VC
ASPHALT DRIVE
-9.2%
EXIST R/W
PVI OFFSET
52.5'RT/828.3
5'VC
PVI OFFSET
20'RT/831.3
E.O.P.
12'

DRIVEWAY #1
503+51
KLONDIKE RD
RT

PVI OFFSET
73'RT/827.4
LIMIT OF CONSTR.
78'RT/827.0
-8%
10'VC
Skew = 70°
EXIST R/W
CONCRETE DRIVE
-14.6%
13'VC
PVI OFFSET
21'RT/835.0

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

DRIVEWAY PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

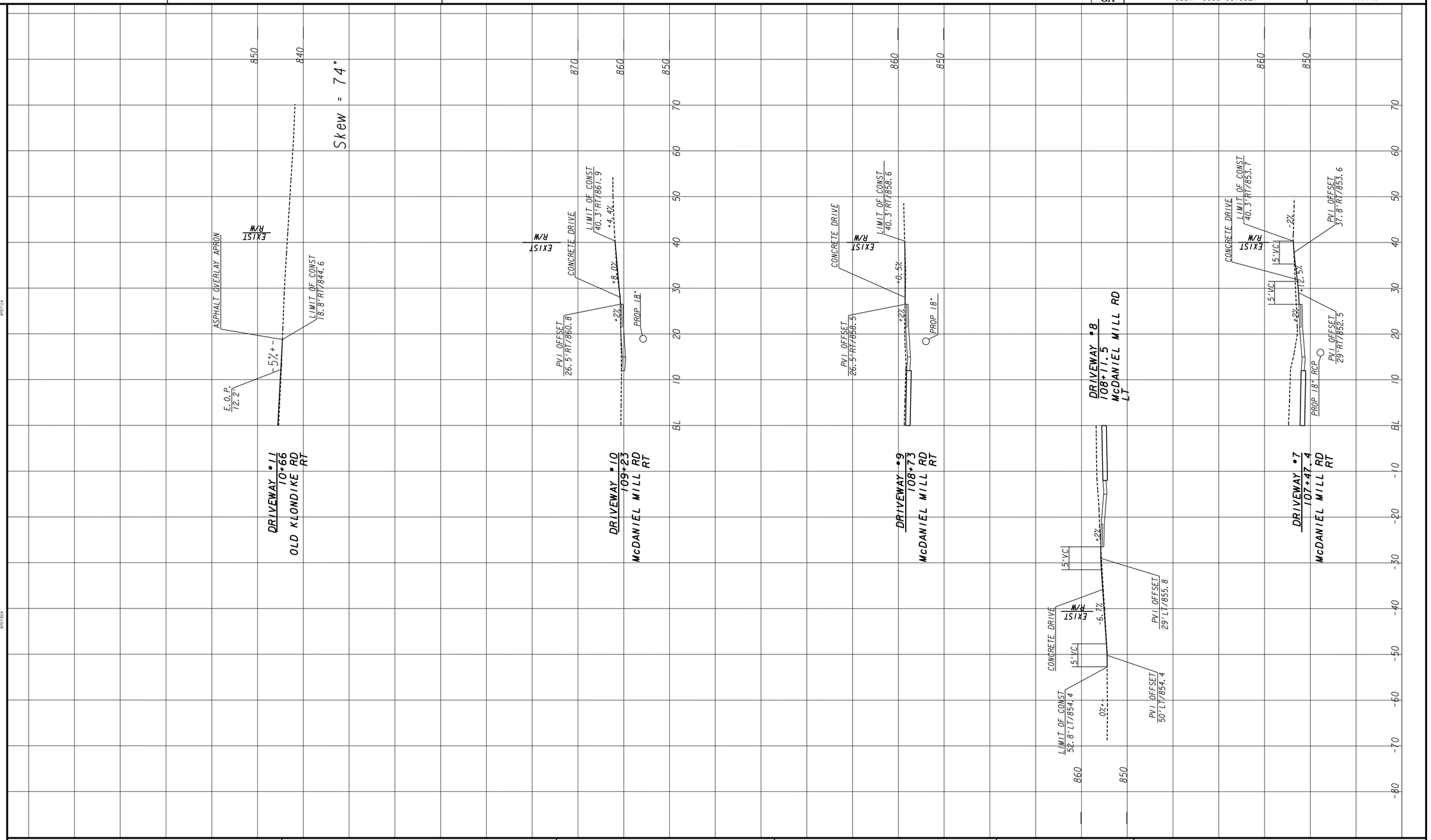
DRAWING No.
17-0001

3/1/2007 SUXEN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



$REF104 $REF105 $REF106 $REF107 $REF108 $REF109

$REF104 $REF105 $REF106 $REF107 $REF108 $REF109

3/1/2007 SUXEN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

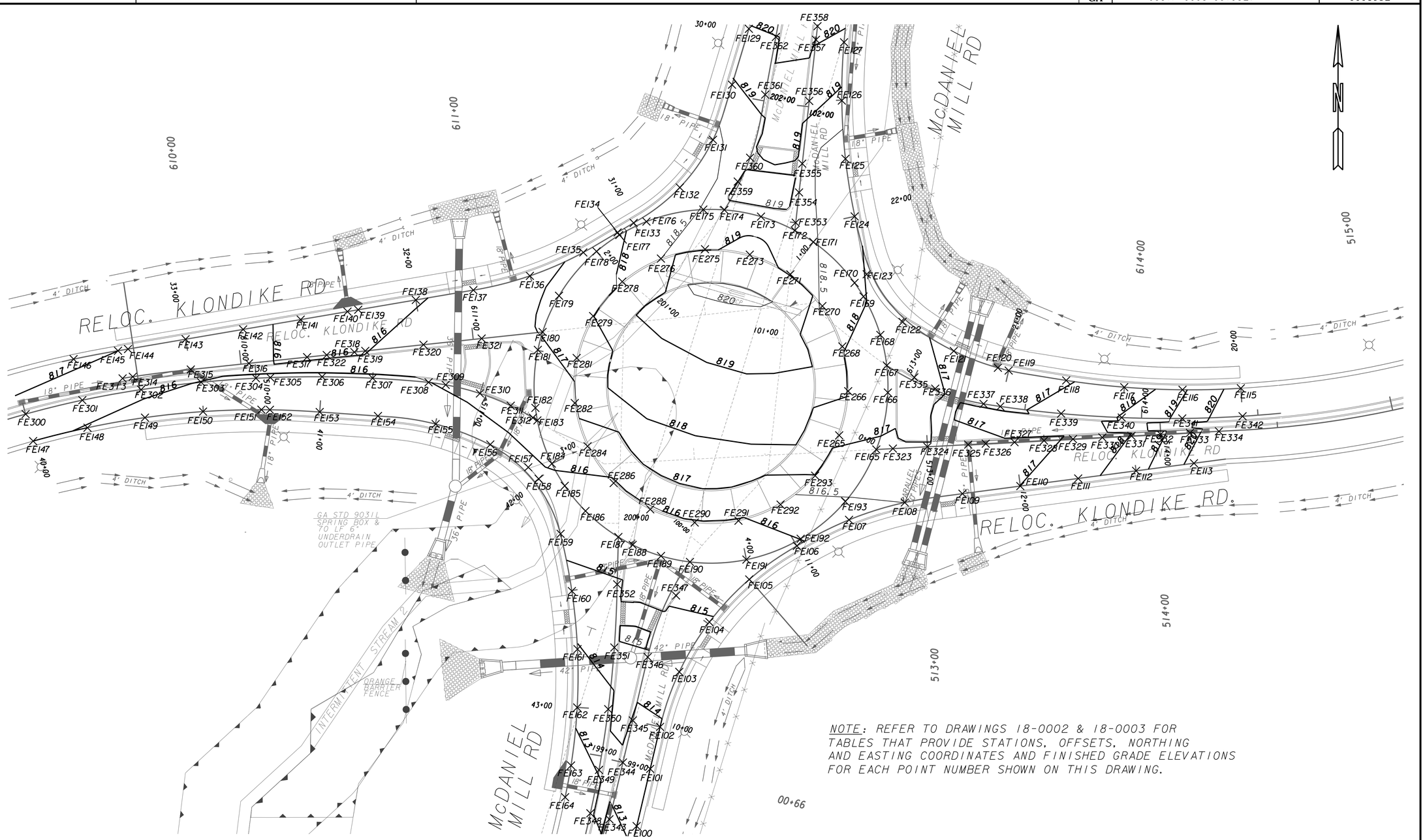
DRIVEWAY PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
17-0002

...\Dgn\0006932DR01.dgn 9/6/2018 7:49:20 AM

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



NOTE: REFER TO DRAWINGS 18-0002 & 18-0003 FOR TABLES THAT PROVIDE STATIONS, OFFSETS, NORTHING AND EASTING COORDINATES AND FINISHED GRADE ELEVATIONS FOR EACH POINT NUMBER SHOWN ON THIS DRAWING.

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SPECIAL GRADING

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 18-0001

3/1/2007 GPLN

ROUNDABOUT QUADRANT EDGES OF PAVEMENT BASELINES

SOUTHEAST ROUNDABOUT QUADRANT EDGE OF PAVEMENT

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE100	KC50	McDaniel Mill Road Northbound	98+75	12.00	R	N 1331158.9949	E 2324337.5236	**813.22**
FE101	KC50	McDaniel Mill Road Northbound	99+00	12.00	R	N 1331183.4803	E 2324343.3476	**813.66**
FE102	KC57	SE Quadrant Roundabout E.O.P Baseline	10+00	0.00	C	N 1331201.4683	E 2324347.5773	**813.96**
FE103	KC57	SE Quadrant Roundabout E.O.P Baseline	10+25	0.00	C	N 1331225.0349	E 2324355.7843	**814.45**
FE104	KC57	SE Quadrant Roundabout E.O.P Baseline	10+50	0.00	C	N 1331246.3946	E 2324368.6881	**814.94**
FE105	KC57	SE Quadrant Roundabout E.O.P Baseline	10+75	0.00	C	N 1331264.6234	E 2324385.7307	**815.43**
FE106	KC57	SE Quadrant Roundabout E.O.P Baseline	11+00	0.00	C	N 1331278.9912	E 2324406.1381	**815.90**
FE107	KC57	SE Quadrant Roundabout E.O.P Baseline	11+25	0.00	C	N 1331290.1519	E 2324428.4870	**816.23**
FE108	KC57	SE Quadrant Roundabout E.O.P Baseline	11+50	0.00	C	N 1331297.5734	E 2324452.3276	**816.48**
FE109	KC57	SE Quadrant Roundabout E.O.P Baseline	11+75	0.00	C	N 1331301.3509	E 2324477.0312	**816.74**
FE110	KC57	SE Quadrant Roundabout E.O.P Baseline	12+00	0.00	C	N 1331304.6163	E 2324501.8170	**817.00**
FE111	KC57	SE Quadrant Roundabout E.O.P Baseline	12+25	0.00	C	N 1331307.8816	E 2324526.6029	**817.57**
FE112	KC57	SE Quadrant Roundabout E.O.P Baseline	12+50	0.00	C	N 1331311.1470	E 2324551.3887	**818.67**
FE113	KC57	SE Quadrant Roundabout E.O.P Baseline	12+75	0.00	C	N 1331314.4124	E 2324576.1745	**820.25**
FE114	KC57	SE Quadrant Roundabout E.O.P Baseline	12+88.78	0.00	C	N 1331316.2117	E 2324589.8322	**821.20**

NORTHEAST ROUNDABOUT QUADRANT EDGE OF PAVEMENT

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE115	KC58	NE Quadrant Roundabout E.O.P. Baseline	20+00	0.00	C	N 1331346.5167	E 2324596.2528	**820.45**
FE116	KC58	NE Quadrant Roundabout E.O.P Baseline	20+25	0.00	C	N 1331345.8633	E 2324571.2666	**818.86**
FE117	KC58	NE Quadrant Roundabout E.O.P Baseline	20+50	0.00	C	N 1331346.9846	E 2324546.2970	**817.65**
FE118	KC58	NE Quadrant Roundabout E.O.P Baseline	20+75	0.00	C	N 1331349.8750	E 2324521.4699	**816.89**
FE119	KC58	NE Quadrant Roundabout E.O.P Baseline	21+00	0.00	C	N 1331354.1188	E 2324496.8374	**816.58**
FE120	KC58	NE Quadrant Roundabout E.O.P Baseline	21+04.77	0.00	C	N 1331355.3000	E 2324492.2164	**816.58**
FE121	KC58	NE Quadrant Roundabout E.O.P Baseline	21+25	0.00	C	N 1331362.4804	E 2324473.3337	**816.72**
FE122	KC58	NE Quadrant Roundabout E.O.P Baseline	21+50	1.54	L	N 1331374.9101	E 2324451.3929	**817.36**
FE123	KC58	NE Quadrant Roundabout E.O.P Baseline	21+75	2.00	L	N 1331395.3382	E 2324436.0375	**817.95**
FE124	KC58	NE Quadrant Roundabout E.O.P Baseline	22+00	0.10	L	N 1331420.1214	E 2324430.8799	**818.12**
FE125	KC58	NE Quadrant Roundabout E.O.P Baseline	22+25	0.00	C	N 1331444.8048	E 2324426.9466	**818.29**
FE126	KC58	NE Quadrant Roundabout E.O.P Baseline	22+50	0.00	C	N 1331469.7463	E 2324425.3979	**818.78**
FE127	KC58	NE Quadrant Roundabout E.O.P Baseline	22+75	0.00	C	N 1331494.7179	E 2324426.3468	**819.74**
FE128	KC58	NE Quadrant Roundabout E.O.P Baseline	22+80.6	0.00	C	N 1331500.2854	E 2324426.9008	**819.99**

NORTHWEST ROUNDABOUT QUADRANT EDGE OF PAVEMENT

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE129	KC59	NW Quadrant Roundabout E.O.P. Baseline	30+00	0.00	C	N 1331500.4854	E 2324385.5935	**819.98**
FE130	KC59	NW Quadrant Roundabout E.O.P Baseline	30+25	0.00	C	N 1331476.5478	E 2324378.3828	**818.88**
FE131	KC59	NW Quadrant Roundabout E.O.P Baseline	30+50	0.00	C	N 1331452.9484	E 2324370.2321	**818.43**
FE132	KC59	NW Quadrant Roundabout E.O.P Baseline	30+75	0.00	C	N 1331432.4966	E 2324356.0316	**818.27**
FE133	KC59	NW Quadrant Roundabout E.O.P Baseline	31+00	0.00	C	N 1331417.3468	E 2324336.2624	**818.05**
FE134	KC59	NW Quadrant Roundabout E.O.P Baseline	31+08.	0.00	C	N 1331413.2700	E 2324329.3790	**817.91**
FE135	KC59	NW Quadrant Roundabout E.O.P Baseline	31+25	0.00	C	N 1331404.6995	E 2324314.6987	**817.47**
FE136	KC59	NW Quadrant Roundabout E.O.P Baseline	31+50	0.00	C	N 1331394.6621	E 2324291.8338	**816.59**
FE137	KC59	NW Quadrant Roundabout E.O.P Baseline	31+75	0.00	C	N 1331388.5548	E 2324267.6209	**816.21**
FE138	KC59	NW Quadrant Roundabout E.O.P Baseline	32+00	0.00	C	N 1331384.3485	E 2324242.9773	**815.94**
FE139	KC59	NW Quadrant Roundabout E.O.P Baseline	32+25	0.00	C	N 1331380.1422	E 2324218.3337	**815.77**
FE140	KC59	NW Quadrant Roundabout E.O.P Baseline	32+29.68	0.00	C	N 1331379.3547	E 2324213.7204	**815.77**
FE141	KC59	NW Quadrant Roundabout E.O.P Baseline	32+50	0.00	C	N 1331375.9359	E 2324193.6901	**815.85**
FE142	KC59	NW Quadrant Roundabout E.O.P Baseline	32+75	0.00	C	N 1331371.7295	E 2324169.0465	**816.16**
FE143	KC59	NW Quadrant Roundabout E.O.P Baseline	33+00	0.00	C	N 1331367.5232	E 2324144.4029	**816.55**
FE144	KC59	NW Quadrant Roundabout E.O.P Baseline	33+25	0.00	C	N 1331363.3169	E 2324119.7593	**816.94**
FE145	KC59	NW Quadrant Roundabout E.O.P Baseline	33+29.36	0.00	C	N 1331362.5833	E 2324115.4615	**817.01**
FE146	KC52	Relocated Klondike Road	509+25.	18.00	L	N 1331359.0138	E 2324096.4387	**817.23**

SOUTHWEST ROUNDABOUT QUADRANT EDGE OF PAVEMENT

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE147	KC52	Relocated Klondike Road	509+00	12.00	R	N 1331323.8882	E 2324079.1322	**816.25**
FE148	KC60	SW Quadrant Roundabout E.O.P Baseline	40+00	0.00	C	N 1331329.6093	E 2324102.3942	**815.91**
FE149	KC60	SW Quadrant Roundabout E.O.P Baseline	40+25	0.00	C	N 1331333.9517	E 2324127.0088	**815.66**
FE150	KC60	SW Quadrant Roundabout E.O.P Baseline	40+50	0.00	C	N 1331336.5262	E 2324151.8705	**815.41**
FE151	KC60	SW Quadrant Roundabout E.O.P Baseline	40+75.	0.00	C	N 1331337.3199	E 2324176.8526	**815.26**
FE152	KC60	SW Quadrant Roundabout E.O.P Baseline	40+78.65	0.00	C	N 1331337.2865	E 2324180.5024	**815.26**
FE153	KC60	SW Quadrant Roundabout E.O.P Baseline	41+00	0.00	C	N 1331336.3378	E 2324201.8282	**815.33**
FE154	KC60	SW Quadrant Roundabout E.O.P Baseline	41+25	0.00	C	N 1331334.6354	E 2324226.7702	**815.46**
FE155	KC60	SW Quadrant Roundabout E.O.P Baseline	41+50	0.00	C	N 1331331.1684	E 2324251.4839	**815.58**
FE156	KC60	SW Quadrant Roundabout E.O.P Baseline	41+75	0.21	L	N 1331322.4401	E 2324274.8791	**815.72**
FE157	KC60	SW Quadrant Roundabout E.O.P Baseline	41+93.57	2.12	L	N 1331312.6911	E 2324291.1282	**815.85**
FE158	KC60	SW Quadrant Roundabout E.O.P Baseline	42+00.	2.19	L	N 1331307.7421	E 2324295.5822	**815.82**
FE159	KC60	SW Quadrant Roundabout E.O.P Baseline	42+25	0.08	L	N 1331284.1690	E 2324304.9686	**815.29**
FE160	KC60	SW Quadrant Roundabout E.O.P Baseline	42+50	0.00	C	N 1331259.6464	E 2324309.7987	**814.63**
FE161	KC60	SW Quadrant Roundabout E.O.P Baseline	42+75	0.00	C	N 1331234.7731	E 2324312.2048	**813.97**
FE162	KC60	SW Quadrant Roundabout E.O.P Baseline	43+00	0.00	C	N 1331209.7841	E 2324312.0854	**813.30**
FE163	KC60	SW Quadrant Roundabout E.O.P Baseline	43+25.	0.00	C	N 1331184.9350	E 2324309.4417	**812.50**
FE164	KC60	SW Quadrant Roundabout E.O.P. Baseline	43+38.82	0.00	C	N 1331171.3505	E 2324306.9103	**812.00**

ROUNDABOUT INSCRIBED CIRCLE (OUTSIDE) BASELINE

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE165	KC61	Roundabout Inscribed Circle	0+00	0.00	C	N 1331320.2912	E 2324440.1481	**816.90**
FE166	KC61	Roundabout Inscribed Circle	0+25	0.00	C	N 1331344.6799	E 2324445.1017	**817.32**
FE167	KC61	Roundabout Inscribed Circle	0+36.61	0.00	C	N 1331356.2687	E 2324444.6240	**817.51**
FE168	KC61	Roundabout Inscribed Circle	0+50	0.00	C	N 1331369.3581	E 2324441.8864	**817.74**
FE169	KC61	Roundabout Inscribed Circle	0+68	0.00	C	N 1331385.8037	E 2324434.6737	**818.04**
FE170	KC61	Roundabout Inscribed Circle	0+75	0.00	C	N 1331391.6634	E 2324430.8490	**818.16**
FE171	KC61	Roundabout Inscribed Circle	1+00	0.00	C	N 1331409.1896	E 2324413.1802	**818.58**
FE172	KC61	Roundabout Inscribed Circle	1+09.31	0.00	C	N 1331414.0919	E 2324405.2723	**818.73**
FE173	KC61	Roundabout Inscribed Circle	1+25	0.00	C	N 1331420.0459	E 2324390.7862	**818.82**
FE174	KC61	Roundabout Inscribed Circle	1+40.97	0.00	C	N 1331422.9161	E 2324375.1063	**818.72**
FE175	KC61	Roundabout Inscribed Circle	1+50	0.00	C	N 1331423.0612	E 2324366.0828	**818.58**
FE176	KC61	Roundabout Inscribed Circle	1+75	0.00	C	N 1331417.9102	E 2324341.7350	**818.16**
FE177	KC61	Roundabout Inscribed Circle	1+88	0.00	C	N 1331412.1547	E 2324330.0962	**817.94**
FE178	KC61	Roundabout Inscribed Circle	2+00	0.08	C	N 1331405.1485	E 2324320.3693	**817.74**
FE179	KC61	Roundabout Inscribed Circle	2+25	0.00	C	N 1331386.1530	E 2324304.2908	**817.32**
FE180	KC61	Roundabout Inscribed Circle	2+42.09	0.00	C	N 1331370.6140	E 2324297.2641	**817.03**
FE181	KC61	Roundabout Inscribed Circle	2+50	0.00	C	N 1331362.9728	E 2324295.2338	**816.90**
FE182	KC61	Roundabout Inscribed Circle	2+75	0.00	C	N 1331338.1085	E 2324294.1756	**816.48**
FE183	KC61	Roundabout Inscribed Circle	2+80.43	0.00	C	N 1331332.7475	E 2324295.0312	**816.39**
FE184	KC61	Roundabout Inscribed Circle	3+00	0.00	C	N 1331314.2426	E 2324301.2302	**816.06**
FE185	KC61	Roundabout Inscribed Circle	3+11	0.00	C	N 1331304.7322	E 2324306.7384	**815.87**
FE186	KC61	Roundabout Inscribed Circle	3+25	0.00	C	N 1331293.9496	E 2324315.6366	**815.64**
FE187	KC61	Roundabout Inscribed Circle	3+43	0.00	C	N 1331282.8025	E 2324329.7157	**815.35**
FE188	KC61	Roundabout Inscribed Circle	3+50	0.00	C	N 1331279.4187	E 2324335.8407	**815.27**
FE189	KC61	Roundabout Inscribed Circle	3+63.04	0.00	C	N 1331274.6790	E 2324347.9715	**815.21**
FE190	KC61	Roundabout Inscribed Circle	3+75.7	0.00	C	N 1331272.1310	E 2324360.3575	**815.26**
FE191	KC61	Roundabout Inscribed Circle	4+00.	0.00	C	N 1331273.1230	E 2324384.5331	**815.62**
FE192	KC61	Roundabout Inscribed Circle	4+25	0.00	C	N 1331282.0373	E 2324407.7686	**816.04**
FE193	KC61	Roundabout Inscribed Circle	4+50	0.00	C	N 1331297.9988	E 2324426.8626	**816.46**

• Engineering
• Planning
145 echnology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 328-5900

N. T. S.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
SPECIAL GRADING
DRAWING 2 OF 3
POINT TABLE - SHEET 1 OF 2
DRAWING No. 18-0002

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

INSIDE EDGE OF ROUNABOUT CIRCULATION ROADWAY

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE265	KC61	Roundabout Inscribed Circle	0+00	17.00	L	N 1331326.3649	E 2324424.2702	**817.24**
FE266	KC61	Roundabout Inscribed Circle	0+25	17.00	L	N 1331345.2818	E 2324428.1124	**817.66**
FE268	KC61	Roundabout Inscribed Circle	0+50	17.00	L	N 1331364.4231	E 2324425.6184	**818.08**
FE270	KC61	Roundabout Inscribed Circle	0+75	17.00	L	N 1331381.7240	E 2324417.0574	**818.50**
FE271	KC61	Roundabout Inscribed Circle	1+00	17.00	L	N 1331395.3179	E 2324403.3528	**818.92**
FE273	KC61	Roundabout Inscribed Circle	1+25	17.00	L	N 1331403.7385	E 2324385.9832	**819.16**
FE275	KC61	Roundabout Inscribed Circle	1+50	17.00	L	N 1331406.0773	E 2324366.8223	**818.92**
FE276	KC61	Roundabout Inscribed Circle	1+75	17.00	L	N 1331402.0819	E 2324347.9372	**818.50**
FE278	KC61	Roundabout Inscribed Circle	2+00	17.00	L	N 1331392.1835	E 2324331.3652	**818.08**
FE279	KC61	Roundabout Inscribed Circle	2+25	17.00	L	N 1331377.4499	E 2324318.8940	**817.66**
FE281	KC61	Roundabout Inscribed Circle	2+50	17.00	L	N 1331359.4704	E 2324311.8691	**817.24**
FE282	KC61	Roundabout Inscribed Circle	2+75	17.00	L	N 1331340.1848	E 2324311.0483	**816.82**
FE284	KC61	Roundabout Inscribed Circle	3+00	17.00	L	N 1331321.6734	E 2324316.5202	**816.40**
FE286	KC61	Roundabout Inscribed Circle	3+25	17.00	L	N 1331305.9334	E 2324327.6943	**815.98**
FE288	KC61	Roundabout Inscribed Circle	3+50	17.00	L	N 1331294.6627	E 2324343.3654	**815.61**
FE290	KC61	Roundabout Inscribed Circle	3+75.7	17.00	L	N 1331289.0101	E 2324362.3815	**815.60**
FE291	KC61	Roundabout Inscribed Circle	4+00	17.00	L	N 1331289.7795	E 2324381.1331	**815.96**
FE292	KC61	Roundabout Inscribed Circle	4+25	17.00	L	N 1331296.6938	E 2324399.1554	**816.38**
FE293	KC61	Roundabout Inscribed Circle	4+50	17.00	L	N 1331309.0741	E 2324413.9654	**816.80**

INSIDE APPROACH BASELINES (OR EDGE OF MEDIAN)

RELOCATED KLONDIKE ROAD WEST APPROACH

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE300	KC52	Reloc. Klondike Rd EB	509+00	0.00	C	N 1331335.4469	E 2324075.9079	**816.78**
FE301	KC52	Reloc. Klondike Rd EB	509+25	0.00	C	N 1331341.4075	E 2324100.1827	**816.44**
FE302	KC52	Reloc. Klondike Rd EB	509+50.56	0.00	C	N 1331345.9226	E 2324125.3352	**816.16**
FE303	KC52	Reloc. Klondike Rd EB	509+76.44	0.00	C	N 1331349.0976	E 2324151.0210	**815.97**
FE304	KC52	Reloc. Klondike Rd EB	510+00	0.00	C	N 1331350.8288	E 2324174.5121	**815.87**
FE305	KC52	Reloc. Klondike Rd EB	510+06.19	0.00	C	N 1331351.1001	E 2324180.7011	**815.85**
FE306	KC52	Reloc. Klondike Rd EB	510+28.36	0.00	C	N 1331351.4425	E 2324202.8592	**815.83**
FE307	KC52	Reloc. Klondike Rd EB	510+50	0.00	C	N 1331350.8290	E 2324224.4913	**815.87**
FE308	KC52	Reloc. Klondike Rd EB	510+75	0.00	C	N 1331349.0552	E 2324248.4231	**815.99**
FE309	KC52	Reloc. Klondike Rd EB	510+84.88	0.00	C	N 1331347.9835	E 2324255.7730	**816.05**
FE310	KC52	Reloc. Klondike Rd EB	511+00	0.00	C	N 1331344.2972	E 2324270.4296	**816.17**
FE311	KC52	Reloc. Klondike Rd EB	511+14.22	0.00	C	N 1331339.0282	E 2324283.6293	**816.29**
FE312	KC52	Reloc. Klondike Rd EB	511+25	0.00	C	N 1331333.9254	E 2324293.1174	**816.37**
FE313	KC53	Reloc. Klondike Rd WB	609+48.93	0.00	C	N 1331350.7441	E 2324117.4194	**816.49**
FE314	KC53	Reloc. Klondike Rd WB	609+53.35	0.00	C	N 1331351.4433	E 2324121.7860	**816.46**
FE315	KC53	Reloc. Klondike Rd WB	609+78.38	0.00	C	N 1331354.5445	E 2324146.6182	**816.27**
FE316	KC53	Reloc. Klondike Rd WB	610+03.43	0.00	C	N 1331357.2015	E 2324171.5262	**816.08**
FE317	KC53	Reloc. Klondike Rd WB	610+28.48	0.00	C	N 1331359.8585	E 2324196.4343	**815.90**
FE322	KC53	Reloc. Klondike Rd WB	610+36.92	0.00	C	N 1331360.7539	E 2324204.8276	**815.89**
FE318	KC53	Reloc. Klondike Rd WB	610+48.84	0.00	C	N 1331362.0181	E 2324216.6795	**815.92**
FE319	KC53	Reloc. Klondike Rd WB	610+53.53	0.00	C	N 1331362.5155	E 2324221.3423	**815.95**
FE320	KC53	Reloc. Klondike Rd WB	610+78.58	0.00	C	N 1331365.1726	E 2324246.2504	**816.26**
FE321	KC53	Reloc. Klondike Rd WB	611+03.63	0.00	C	N 1331367.8296	E 2324271.1584	**816.64**

RELOCATED KLONDIKE ROAD EAST APPROACH

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE323	KC52	Reloc. Klondike Rd EB	512+85.2	0.00	C	N 1331320.6688	N 1331320.6688	**816.76**
FE324	KC52	Reloc. Klondike Rd EB	513+00	0.00	C	N 1331321.4527	E 2324462.0520	**816.50**
FE325	KC52	Reloc. Klondike Rd EB	513+17.47	0.00	C	N 1331322.3778	E 2324479.4975	**816.39**
FE326	KC52	Reloc. Klondike Rd EB	513+25	0.00	C	N 1331322.7765	E 2324487.0169	**816.41**
FE327	KC52	Reloc. Klondike Rd EB	513+37.34	0.00	C	N 1331323.4299	E 2324499.3385	**816.53**
FE328	KC52	Reloc. Klondike Rd EB	513+50	0.00	C	N 1331324.1003	E 2324511.9818	**816.77**
FE329	KC52	Reloc. Klondike Rd EB	513+62.42	0.00	C	N 1331324.7578	E 2324524.3796	**817.12**
FE330	KC52	Reloc. Klondike Rd EB	513+75	0.00	C	N 1331325.4242	E 2324536.9468	**817.59**
FE331	KC52	Reloc. Klondike Rd EB	513+87.49	0.00	C	N 1331326.0856	E 2324549.4206	**818.17**
FE332	KC52	Reloc. Klondike Rd EB	514+00	0.00	C	N 1331326.7480	E 2324561.9117	**818.87**
FE333	KC52	Reloc. Klondike Rd EB	514+12.57	0.00	C	N 1331327.4135	E 2324574.4617	**819.68**
FE334	KC52	Reloc. Klondike Rd EB	514+25	0.00	C	N 1331328.0718	E 2324586.8766	**820.52**
FE335	KC53	Reloc. Klondike Rd WB	613+00	1.49	L	N 1331351.1765	E 2324456.4350	**817.22**
FE336	KC53	Reloc. Klondike Rd WB	613+10.24	0.70	L	N 1331346.3411	E 2324465.3763	**817.06**
FE337	KC53	Reloc. Klondike Rd WB	613+32.03	0.00	C	N 1331339.8351	E 2324486.0742	**816.92**
FE338	KC53	Reloc. Klondike Rd WB	613+39.3	0.00	C	N 1331338.7315	E 2324493.2562	**816.93**
FE339	KC53	Reloc. Klondike Rd WB	613+65.53	0.00	C	N 1331335.6700	E 2324519.3025	**817.29**
FE340	KC53	Reloc. Klondike Rd WB	613+91.53	0.00	C	N 1331333.9657	E 2324545.2481	**818.09**
FE341	KC53	Reloc. Klondike Rd WB	614+17.44	0.00	C	N 1331333.5901	E 2324571.1516	**819.33**
FE342	KC53	Reloc. Klondike Rd WB	614+43.3	0.00	C	N 1331334.5326	E 2324596.9926	**820.98**

McDANIEL MILL ROAD SOUTH APPROACH

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE343	KC50	McDaniel Mill Rd NB	98+75	0.00	C	N 1331161.9056	E 2324325.8820	**812.80**
FE344	KC50	McDaniel Mill Rd NB	99+00	0.00	C	N 1331186.2271	E 2324331.6662	**813.42**
FE345	KC50	McDaniel Mill Rd NB	99+18.48	0.00	C	N 1331204.2150	E 2324335.8959	**813.84**
FE346	KC50	McDaniel Mill Rd NB	99+46.38	0.00	C	N 1331231.3791	E 2324342.2833	**814.39**
FE347	KC50	McDaniel Mill Rd NB	99+75.72	2.58	R	N 1331257.7463	E 2324354.4168	**814.95**
FE348	KC51	McDaniel Mill Rd SB	198+75	0.00	C	N 1331164.4693	E 2324317.7091	**812.51**
FE349	KC51	McDaniel Mill Rd SB	198+98.94	0.00	C	N 1331183.0459	E 2324321.4060	**813.21**
FE350	KC51	McDaniel Mill Rd SB	199+20.25	0.00	C	N 1331209.0477	E 2324325.3676	**813.78**
FE351	KC51	McDaniel Mill Rd SB	199+46.83	0.00	C	N 1331235.4964	E 2324327.9763	**814.39**
FE352	KC51	McDaniel Mill Rd SB	199+73.88	0.00	C	N 1331262.5198	E 2324329.1991	**814.94**

McDANIEL MILL ROAD NORTH APPROACH

Point Number	Alignment	Alignment Description	Station	Offset	L, R, or C	Northing	Easting	Elevation
FE353	KC50	McDaniel Mill Rd NB	101+50	0.00	C	N 1331417.4508	E 2324405.6481	**818.71**
FE354	KC50	McDaniel Mill Rd NB	101+63.02	0.00	C	N 1331430.3916	E 2324407.0821	**818.67**
FE355	KC50	McDaniel Mill Rd NB	101+75.43	0.00	C	N 1331442.7240	E 2324408.4487	**818.72**
FE356	KC50	McDaniel Mill Rd NB	102+02.45	0.00	C	N 1331469.5784	E 2324411.4246	**819.17**
FE357	KC50	McDaniel Mill Rd NB	102+28.81	0.00	C	N 1331495.7781	E 2324414.3279	**820.07**
FE358	KC50	McDaniel Mill Rd NB	102+34.67	0.00	C	N 1331501.6017	E 2324414.9732	**820.33**
FE359	KC51	McDaniel Mill Rd SB	201+63.38	0.95	L	N 1331435.0691	E 2324380.8155	**818.65**
FE360	KC51	McDaniel Mill Rd SB	201+74.88	0.00	C	N 1331445.2654	E 2324386.1100	**818.72**
FE361	KC51	McDaniel Mill Rd SB	202+02.7	0.00	C	N 1331472.2768	E 2324392.5612	**819.20**
FE362	KC51	McDaniel Mill Rd SB	202+27.84	0.00	C	N 1331497.0035	E 2324397.1521	**820.09**

QK4 • Engineering • Planning
145 echnology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

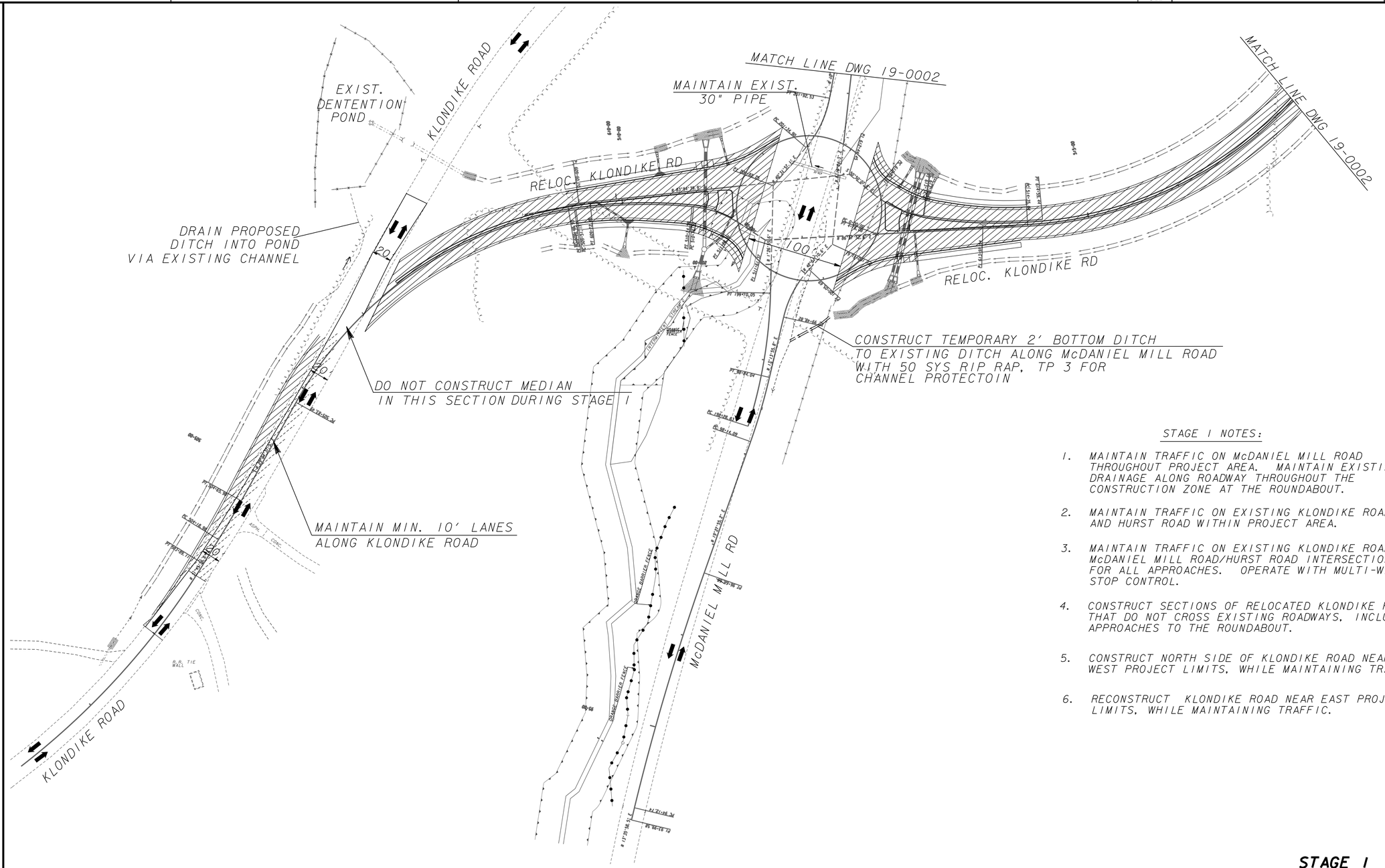
N. T. S.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
SPECIAL GRADING
DRAWING 3 OF 3
POINT TABLE - SHEET 2 OF 2
DRAWING No. 18-0003

3/11/2007 GPLN

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



STAGE I NOTES:

1. MAINTAIN TRAFFIC ON McDANIEL MILL ROAD THROUGHOUT PROJECT AREA. MAINTAIN EXISTING DRAINAGE ALONG ROADWAY THROUGHOUT THE CONSTRUCTION ZONE AT THE ROUNDABOUT.
2. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD, AND HURST ROAD WITHIN PROJECT AREA.
3. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD/ McDANIEL MILL ROAD/HURST ROAD INTERSECTION FOR ALL APPROACHES. OPERATE WITH MULTI-WAY STOP CONTROL.
4. CONSTRUCT SECTIONS OF RELOCATED KLONDIKE ROAD THAT DO NOT CROSS EXISTING ROADWAYS, INCLUDING APPROACHES TO THE ROUNDABOUT.
5. CONSTRUCT NORTH SIDE OF KLONDIKE ROAD NEAR WEST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.
6. RECONSTRUCT KLONDIKE ROAD NEAR EAST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.

STAGE I

OBLITERATE EXIST. PAVEMENT

TRAFFIC DIRECTION

PERMANENT CONSTRUCTION

PERMANENT CONSTRUCTION UNDER TRAFFIC

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 50 100 200

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

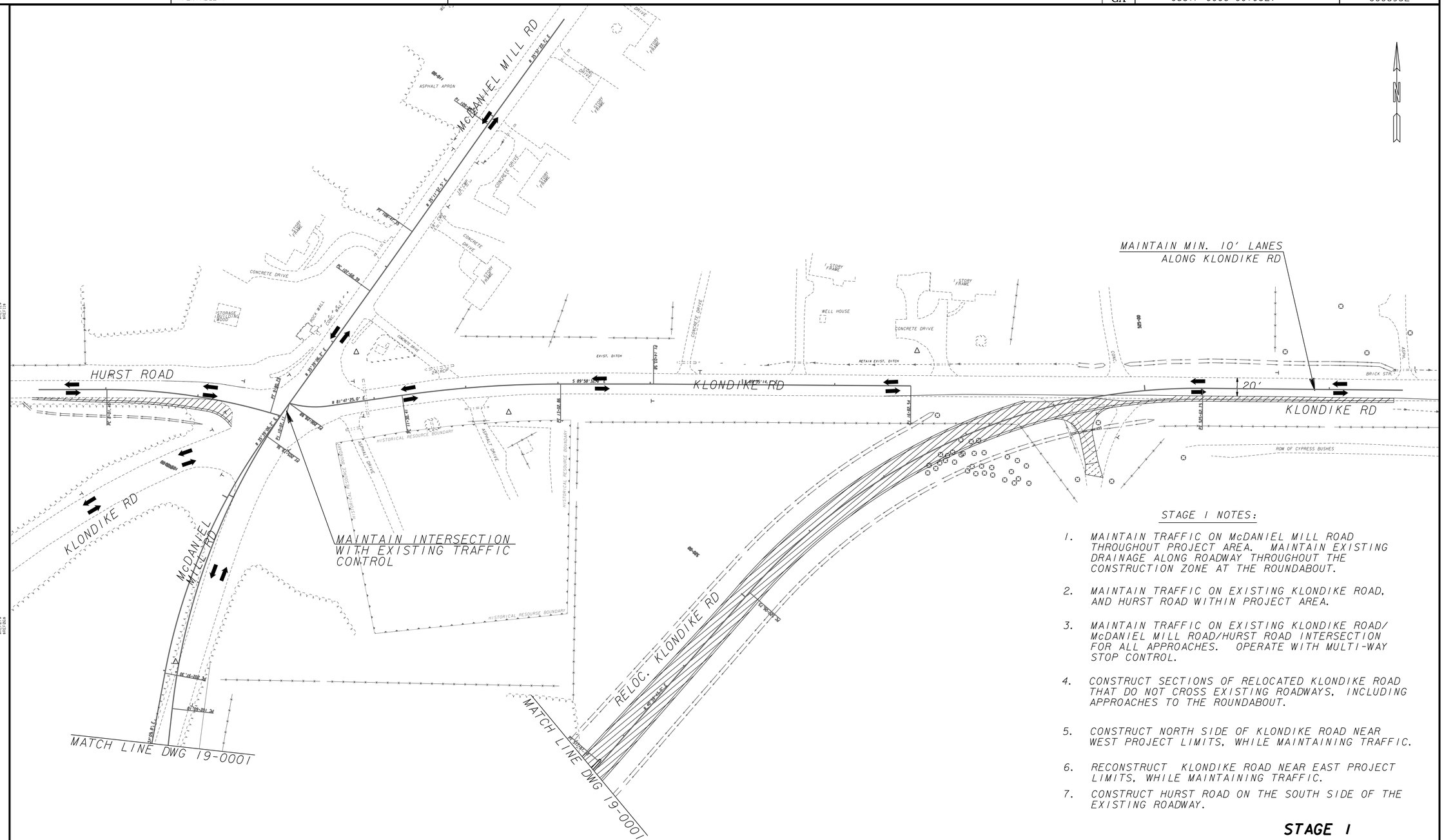
CONSTRUCTION STAGING PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0001

3/1/2007 GPLN

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



STAGE 1 NOTES:

1. MAINTAIN TRAFFIC ON McDANIEL MILL ROAD THROUGHOUT PROJECT AREA. MAINTAIN EXISTING DRAINAGE ALONG ROADWAY THROUGHOUT THE CONSTRUCTION ZONE AT THE ROUNDABOUT.
2. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD, AND HURST ROAD WITHIN PROJECT AREA.
3. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD/ McDANIEL MILL ROAD/HURST ROAD INTERSECTION FOR ALL APPROACHES. OPERATE WITH MULTI-WAY STOP CONTROL.
4. CONSTRUCT SECTIONS OF RELOCATED KLONDIKE ROAD THAT DO NOT CROSS EXISTING ROADWAYS, INCLUDING APPROACHES TO THE ROUNDABOUT.
5. CONSTRUCT NORTH SIDE OF KLONDIKE ROAD NEAR WEST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.
6. RECONSTRUCT KLONDIKE ROAD NEAR EAST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.
7. CONSTRUCT HURST ROAD ON THE SOUTH SIDE OF THE EXISTING ROADWAY.

STAGE 1

OBLITERATE EXIST. PAVEMENT

TRAFFIC DIRECTION

PERMANENT CONSTRUCTION

PERMANENT CONSTRUCTION UNDER TRAFFIC

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET

0 50 100 200

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

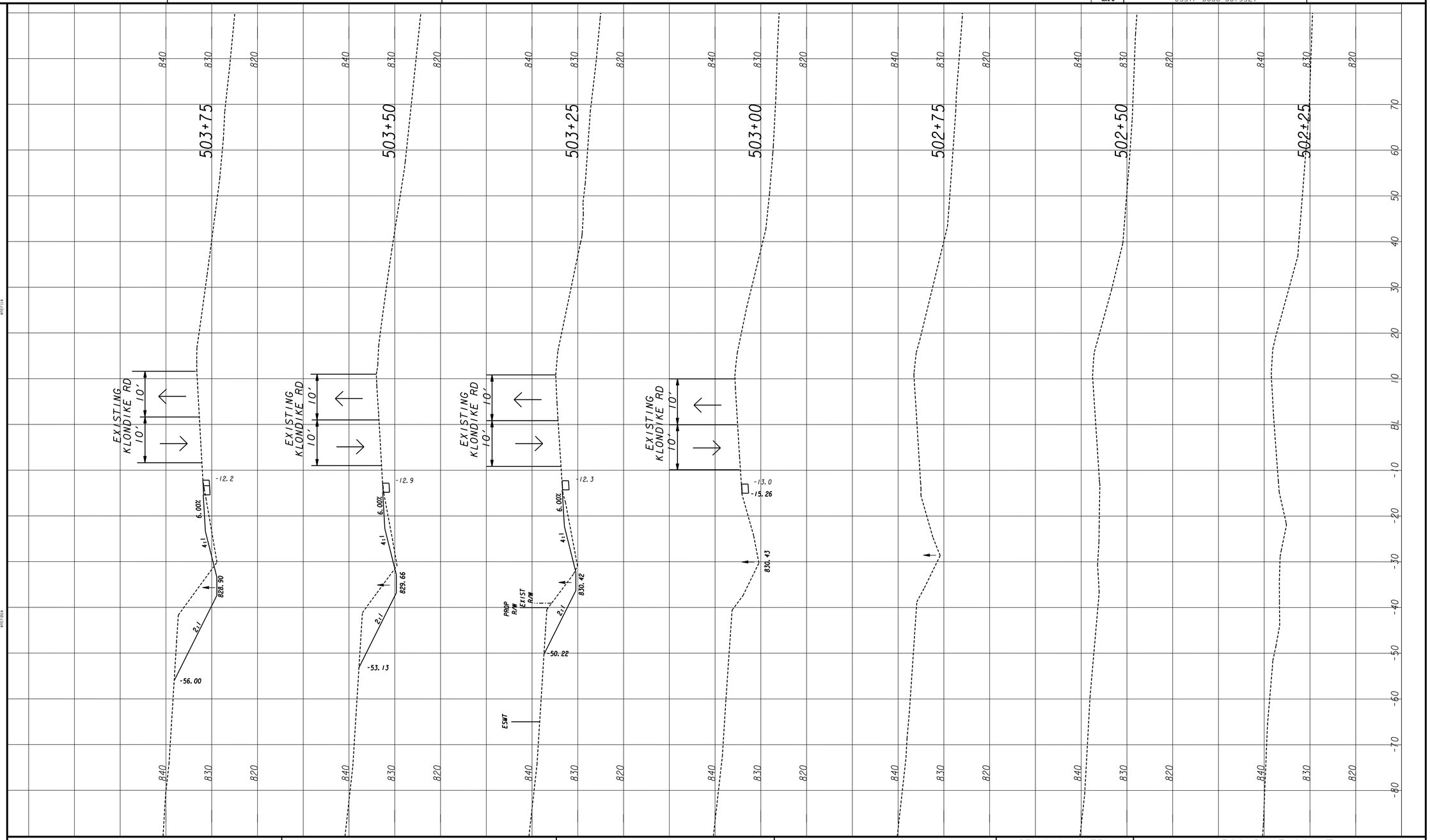
DRAWING No. 19-0002

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

QK4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1
CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

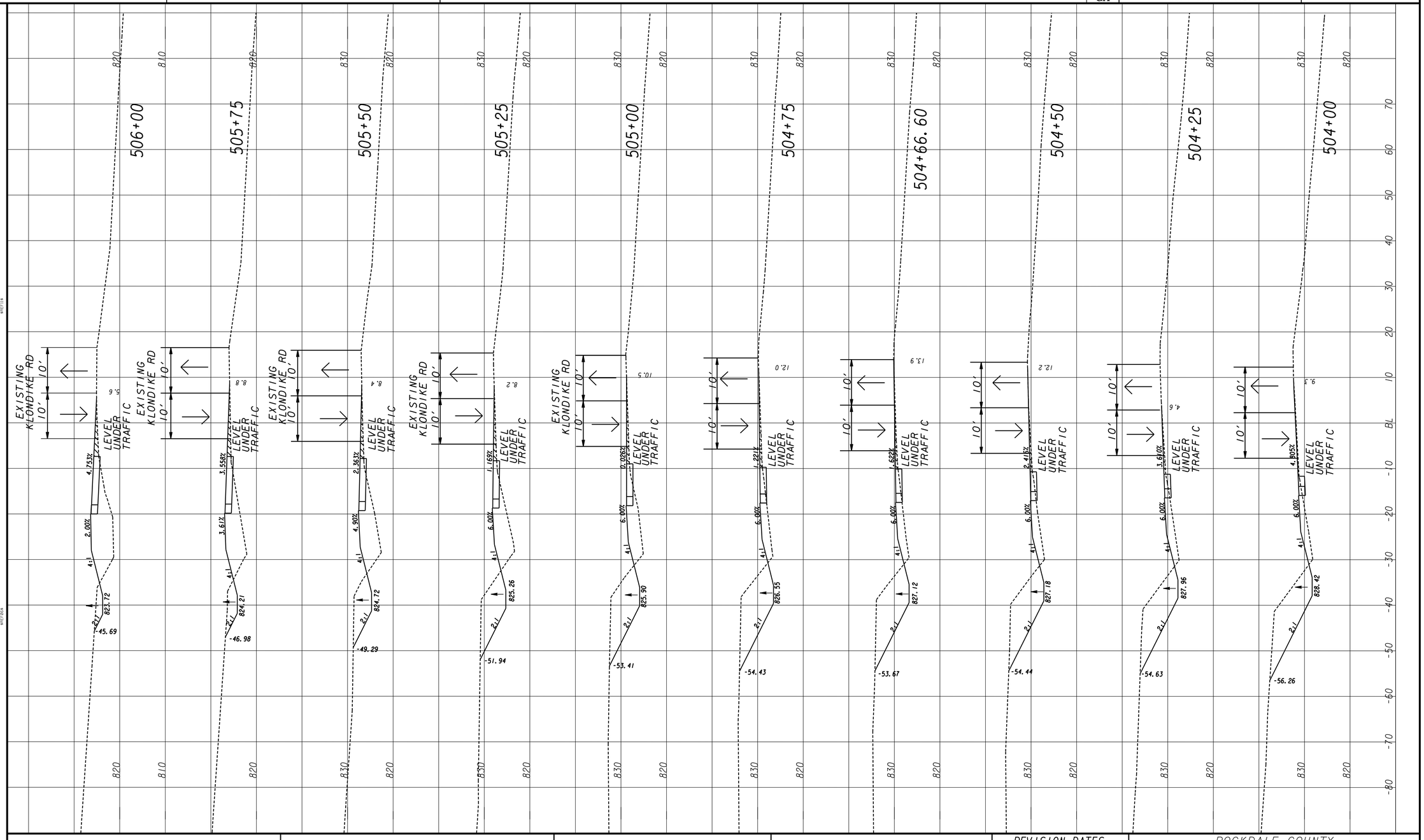
DRAWING No. 19-0003

...\Dgn\0006932-SX01A.DGN 4/13/2018 10:09:57 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

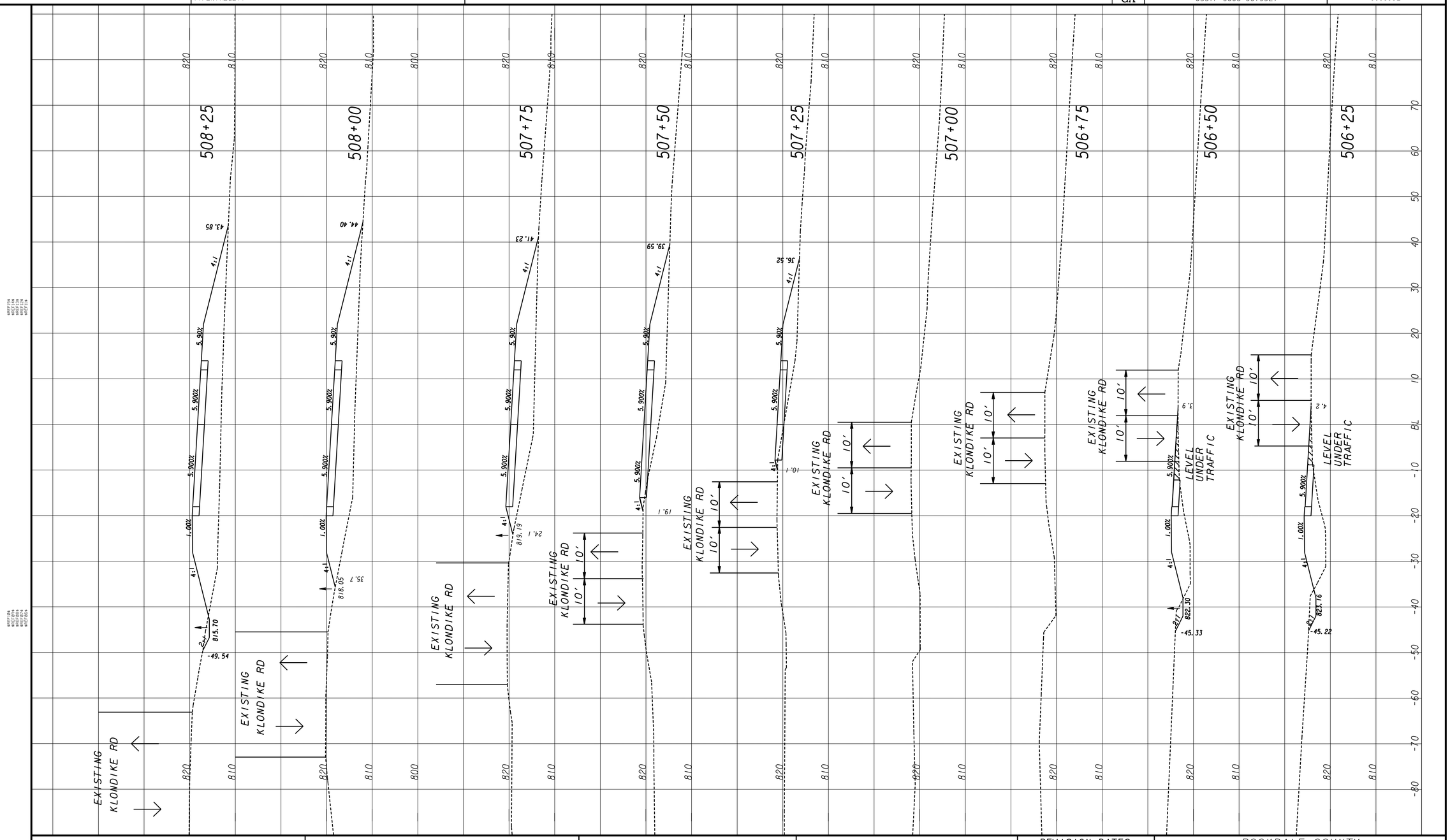
DRAWING No. 19-0004

3/11/2007 SUXEN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0005

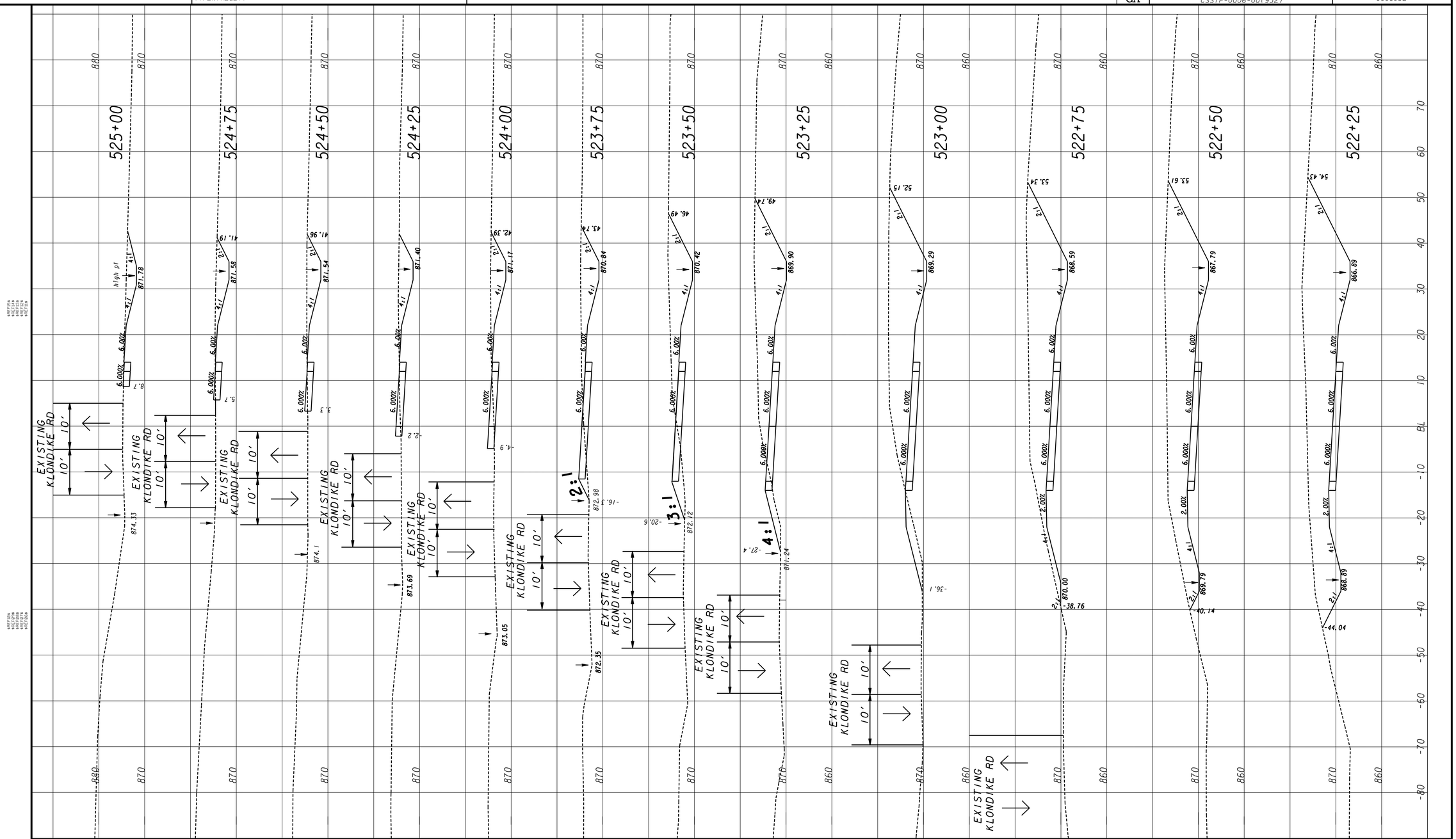
3/1/2007 SUXEN

...\Dgn\0006932-SX01A.DGN 4/13/2018 9:28:38 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

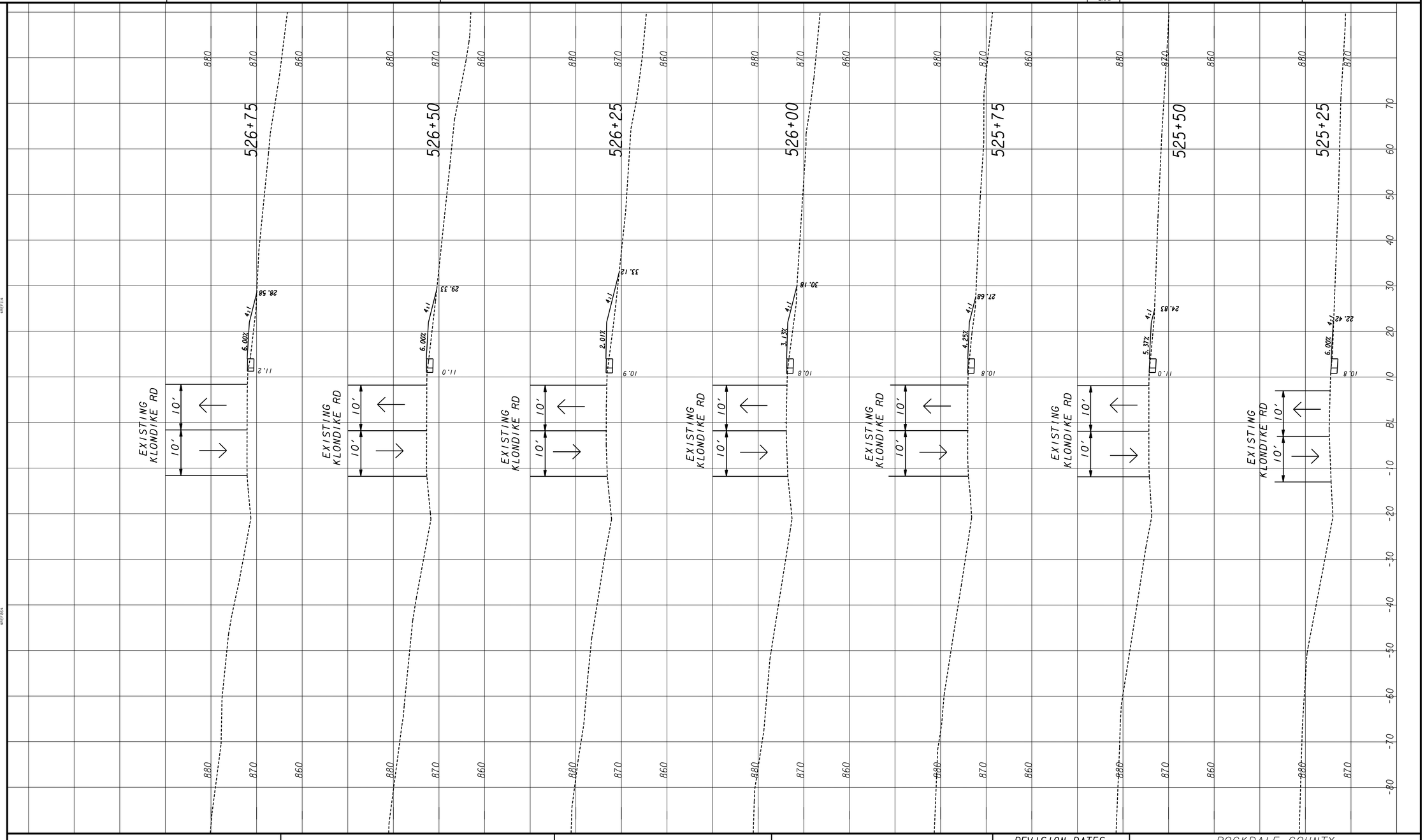
DRAWING No. 19-0006

...\Dgn\0006932-SXS01B.DGN 4/13/2018 9:30:22 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0007

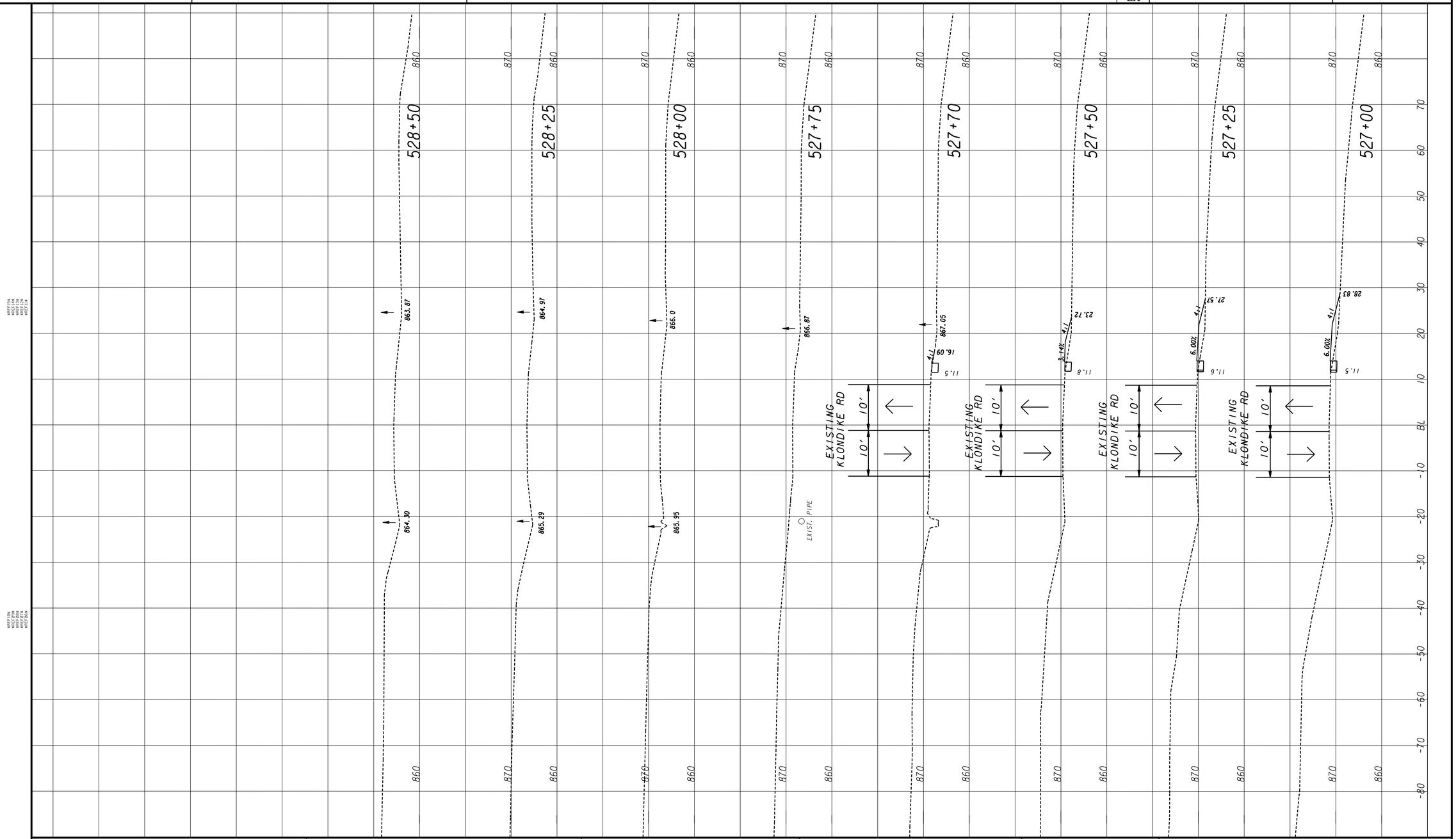
3/1/2007 SUXEN

...\dgn\0006932-SX5018.DGN 4/13/2018 9:30:36 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0008

3/1/2007 SUXEN

...\Dgn\006932-SX5018.DGN 4/13/2018 9:30:52 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932

NOTE:
McDANIEL MILL RD NB BASELINE
ON ROUNDABOUT AND APPROACHES
IS NOT PARALLEL TO EXISTING ROADWAY

RELOCATED KLONDIKE RD
EXISTING McDANIEL MILL RD
101+00
100+75
100+50
100+25
100+00
99+91.21
99+75
99+50
99+25
99+00
25.1
20.4
15.8
19.1
-65.1
-72.8
-84.2
-80.9
-68.4
-65.0
-59.8
2:1
810
800
70
60
50
40
30
20
10
BL
-10
-20
-30
-40
-50
-60
-70
-80

$REFS$

3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1
CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

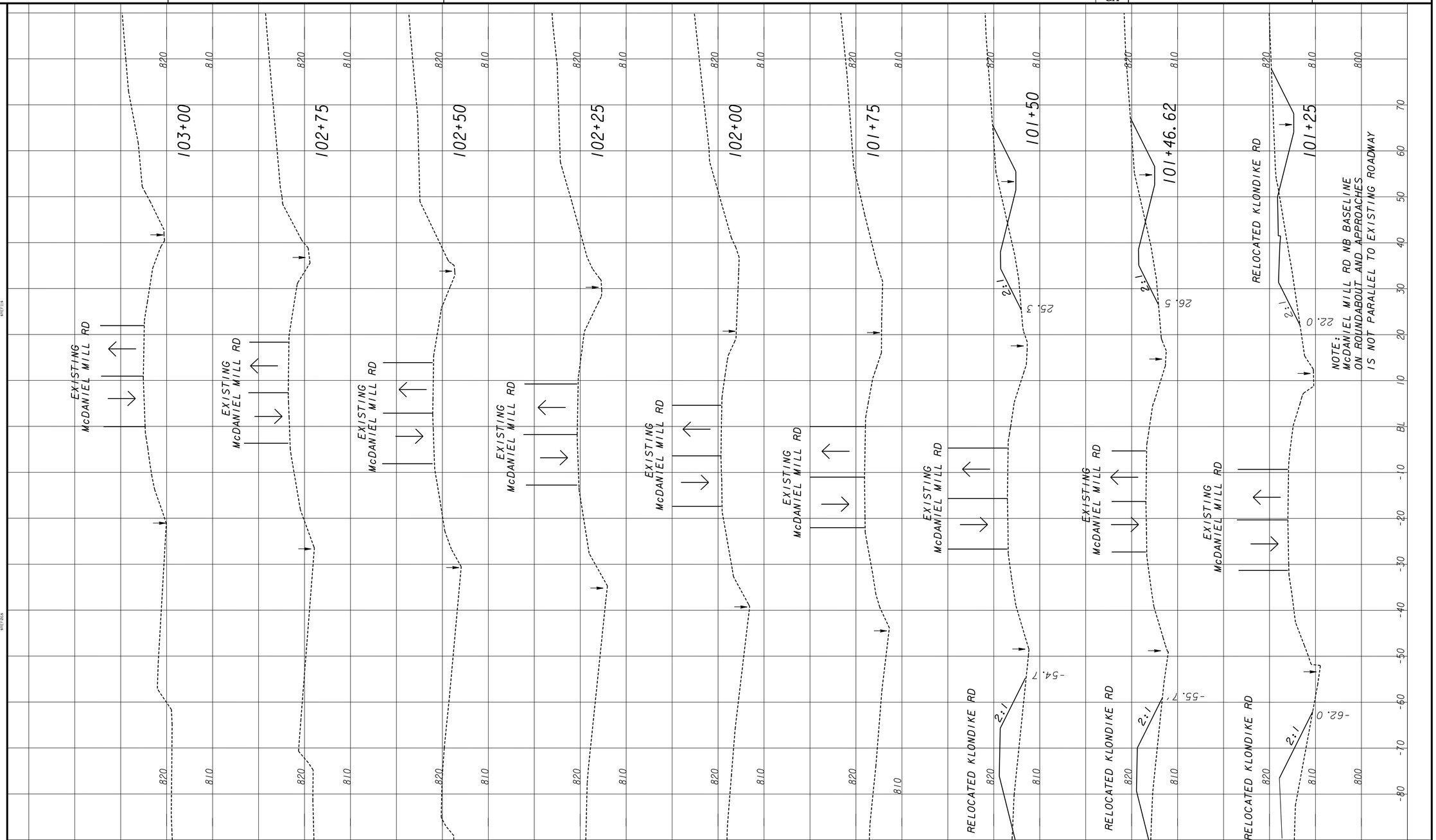
DRAWING No.
19-0009

...\Dgn\006932-SX501C.dgn 4/13/2018 9:33:22 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932	0006932



3/1/2007 SUXEN

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1
CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

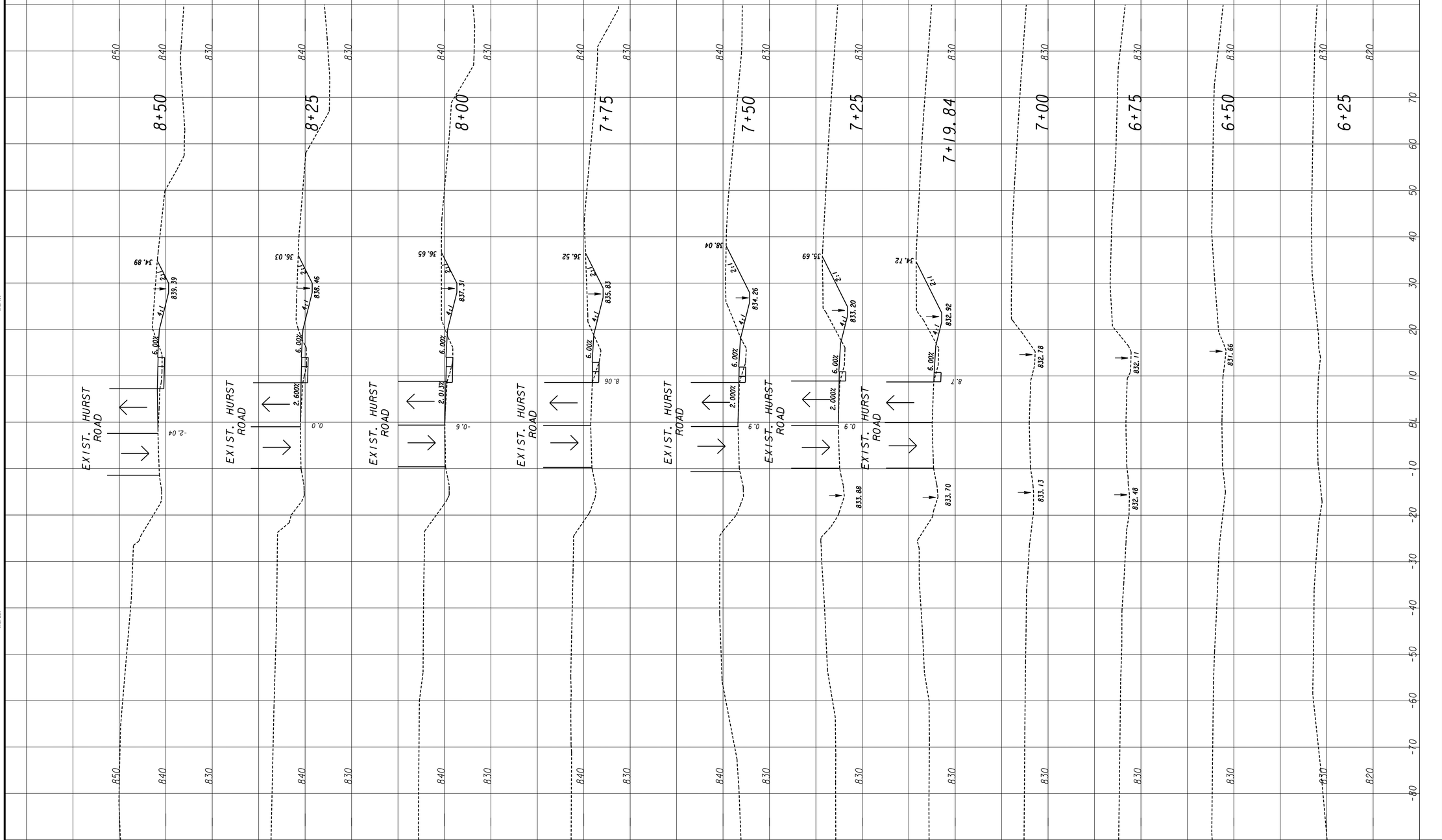
DRAWING No. 19-0010

...\Dgn\0006932-SXS01C.dgn 4/13/2018 9:33:36 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1
CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0011

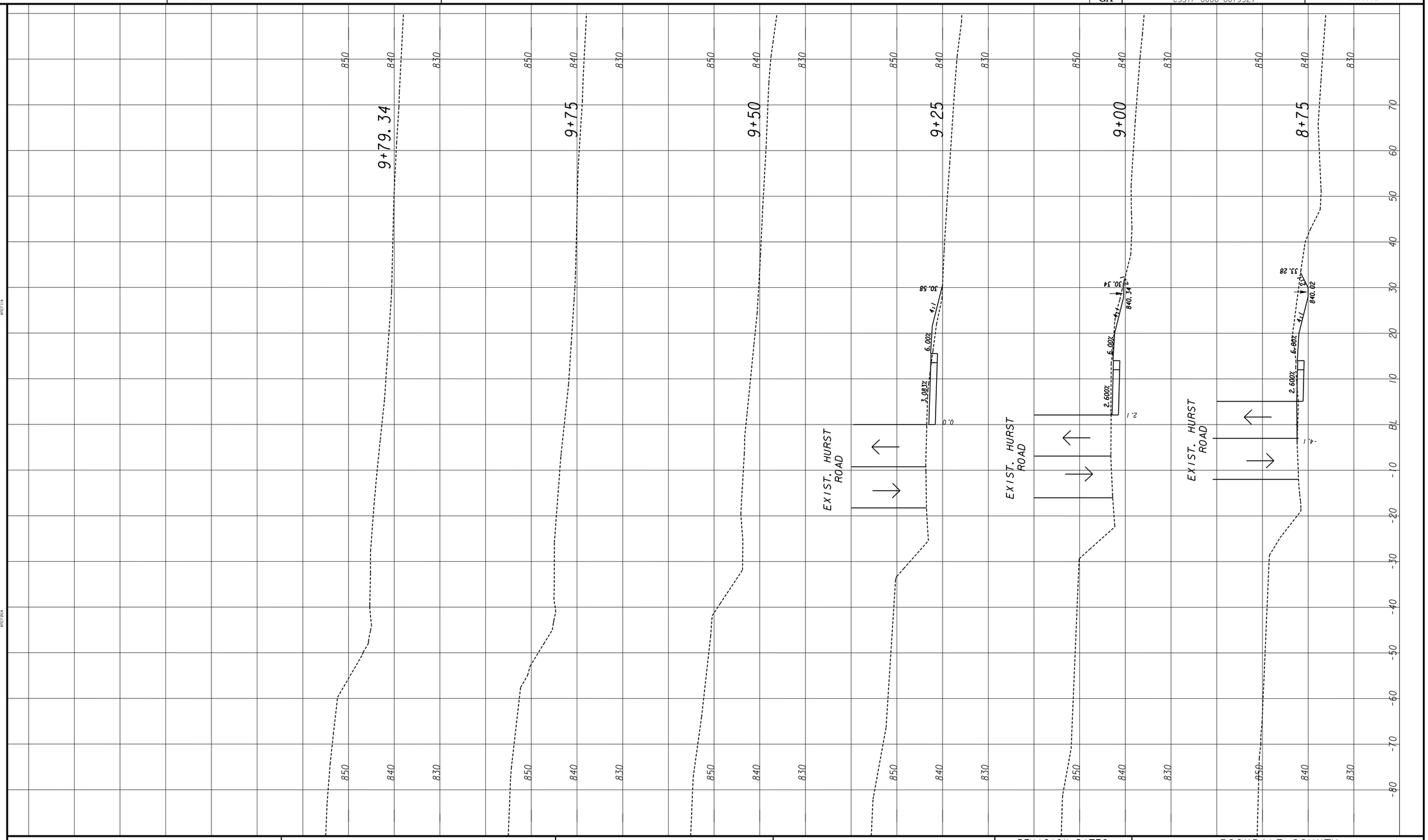
3/1/2007 SUXEN

...\Dgn\0006932-SX010.dgn 4/13/2018 9:36:40 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

QK4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 1
CONSTRUCTION STAGING CROSS-SECTIONS

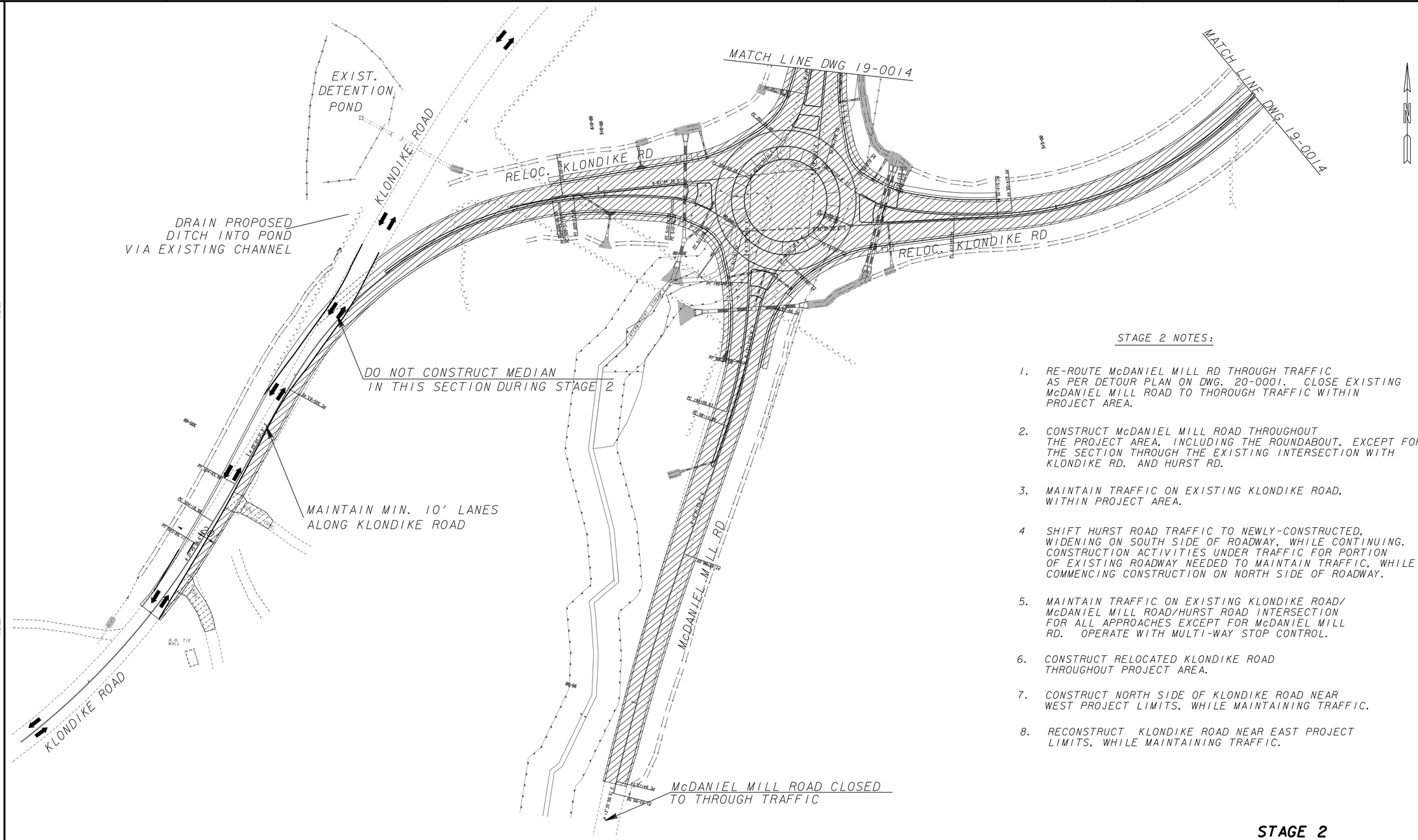
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0012

...\Dgn\0006932-SX01D.dgn 4/13/2018 9:36:55 AM

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

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



STAGE 2 NOTES:

1. RE-ROUTE McDANIEL MILL RD THROUGH TRAFFIC AS PER DETOUR PLAN ON DWG. 20-0001. CLOSE EXISTING McDANIEL MILL ROAD TO THOROUGH TRAFFIC WITHIN PROJECT AREA.
2. CONSTRUCT McDANIEL MILL ROAD THROUGHOUT THE PROJECT AREA, INCLUDING THE ROUNDABOUT, EXCEPT FOR THE SECTION THROUGH THE EXISTING INTERSECTION WITH KLONDIKE RD. AND HURST RD.
3. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD, WITHIN PROJECT AREA.
4. SHIFT HURST ROAD TRAFFIC TO NEWLY-CONSTRUCTED, WIDENING ON SOUTH SIDE OF ROADWAY, WHILE CONTINUING. CONSTRUCTION ACTIVITIES UNDER TRAFFIC FOR PORTION OF EXISTING ROADWAY NEEDED TO MAINTAIN TRAFFIC, WHILE COMMENCING CONSTRUCTION ON NORTH SIDE OF ROADWAY.
5. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD/ McDANIEL MILL ROAD/HURST ROAD INTERSECTION FOR ALL APPROACHES EXCEPT FOR McDANIEL MILL RD. OPERATE WITH MULTI-WAY STOP CONTROL.
6. CONSTRUCT RELOCATED KLONDIKE ROAD THROUGHOUT PROJECT AREA.
7. CONSTRUCT NORTH SIDE OF KLONDIKE ROAD NEAR WEST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.
8. RECONSTRUCT KLONDIKE ROAD NEAR EAST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.

STAGE 2

OBLITERATE EXIST. PAVEMENT
TRAFFIC DIRECTION
PERMANENT CONSTRUCTION
PERMANENT CONSTRUCTION UNDER TRAFFIC

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 50 100 200

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING PLAN

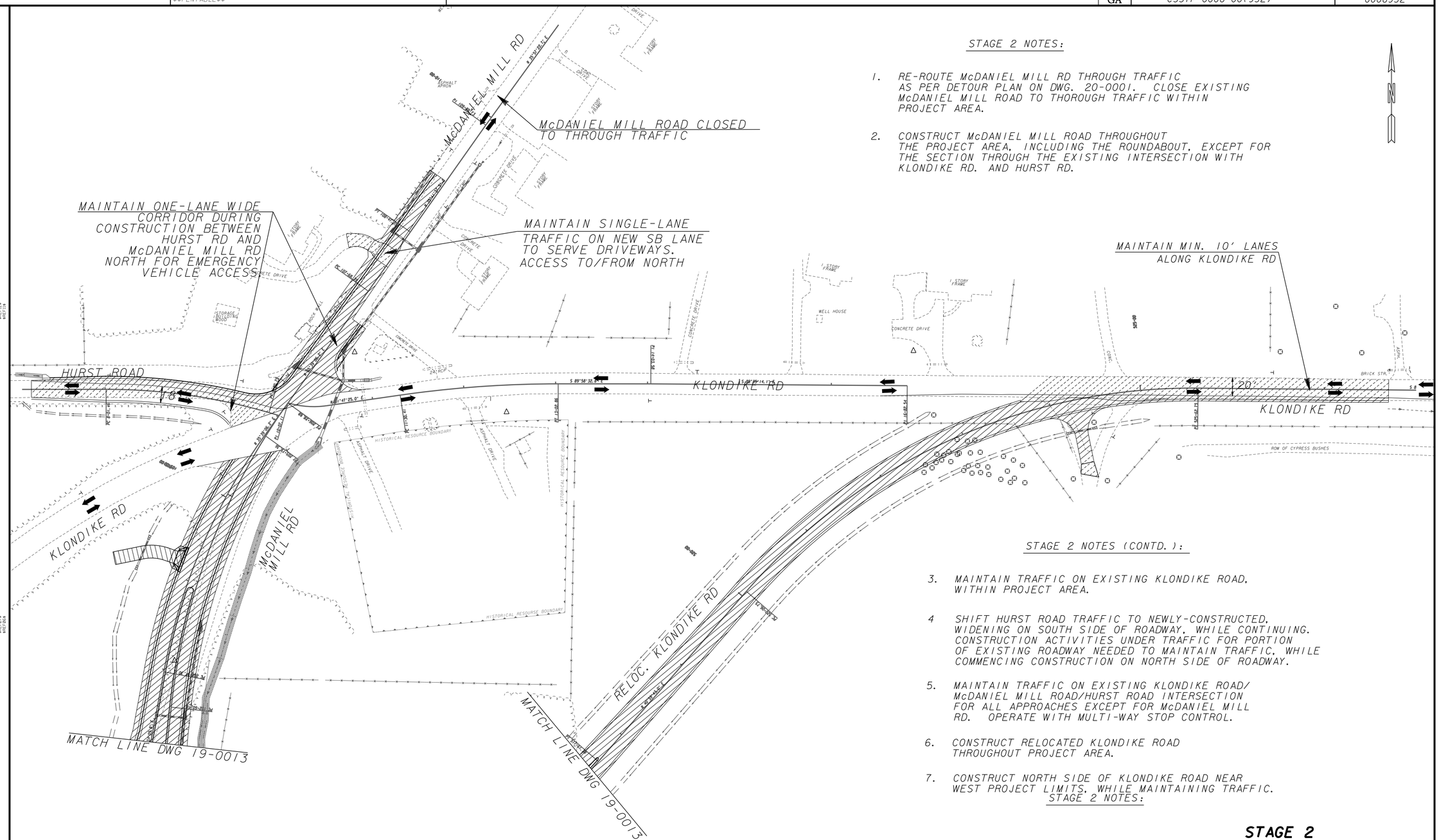
KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0013

3/1/2007 GPLN

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

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



STAGE 2 NOTES:

1. RE-ROUTE McDANIEL MILL RD THROUGH TRAFFIC AS PER DETOUR PLAN ON DWG. 20-0001. CLOSE EXISTING McDANIEL MILL ROAD TO THOROUGH TRAFFIC WITHIN PROJECT AREA.
2. CONSTRUCT McDANIEL MILL ROAD THROUGHOUT THE PROJECT AREA, INCLUDING THE ROUNDABOUT, EXCEPT FOR THE SECTION THROUGH THE EXISTING INTERSECTION WITH KLONDIKE RD. AND HURST RD.

STAGE 2 NOTES (CONTD.):

3. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD, WITHIN PROJECT AREA.
4. SHIFT HURST ROAD TRAFFIC TO NEWLY-CONSTRUCTED, WIDENING ON SOUTH SIDE OF ROADWAY, WHILE CONTINUING CONSTRUCTION ACTIVITIES UNDER TRAFFIC FOR PORTION OF EXISTING ROADWAY NEEDED TO MAINTAIN TRAFFIC, WHILE COMMENCING CONSTRUCTION ON NORTH SIDE OF ROADWAY.
5. MAINTAIN TRAFFIC ON EXISTING KLONDIKE ROAD/ McDANIEL MILL ROAD/HURST ROAD INTERSECTION FOR ALL APPROACHES EXCEPT FOR McDANIEL MILL RD. OPERATE WITH MULTI-WAY STOP CONTROL.
6. CONSTRUCT RELOCATED KLONDIKE ROAD THROUGHOUT PROJECT AREA.
7. CONSTRUCT NORTH SIDE OF KLONDIKE ROAD NEAR WEST PROJECT LIMITS, WHILE MAINTAINING TRAFFIC.

STAGE 2 NOTES:

STAGE 2

OBLITERATE EXIST. PAVEMENT
TRAFFIC DIRECTION
PERMANENT CONSTRUCTION
PERMANENT CONSTRUCTION UNDER TRAFFIC

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 50 100 200

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

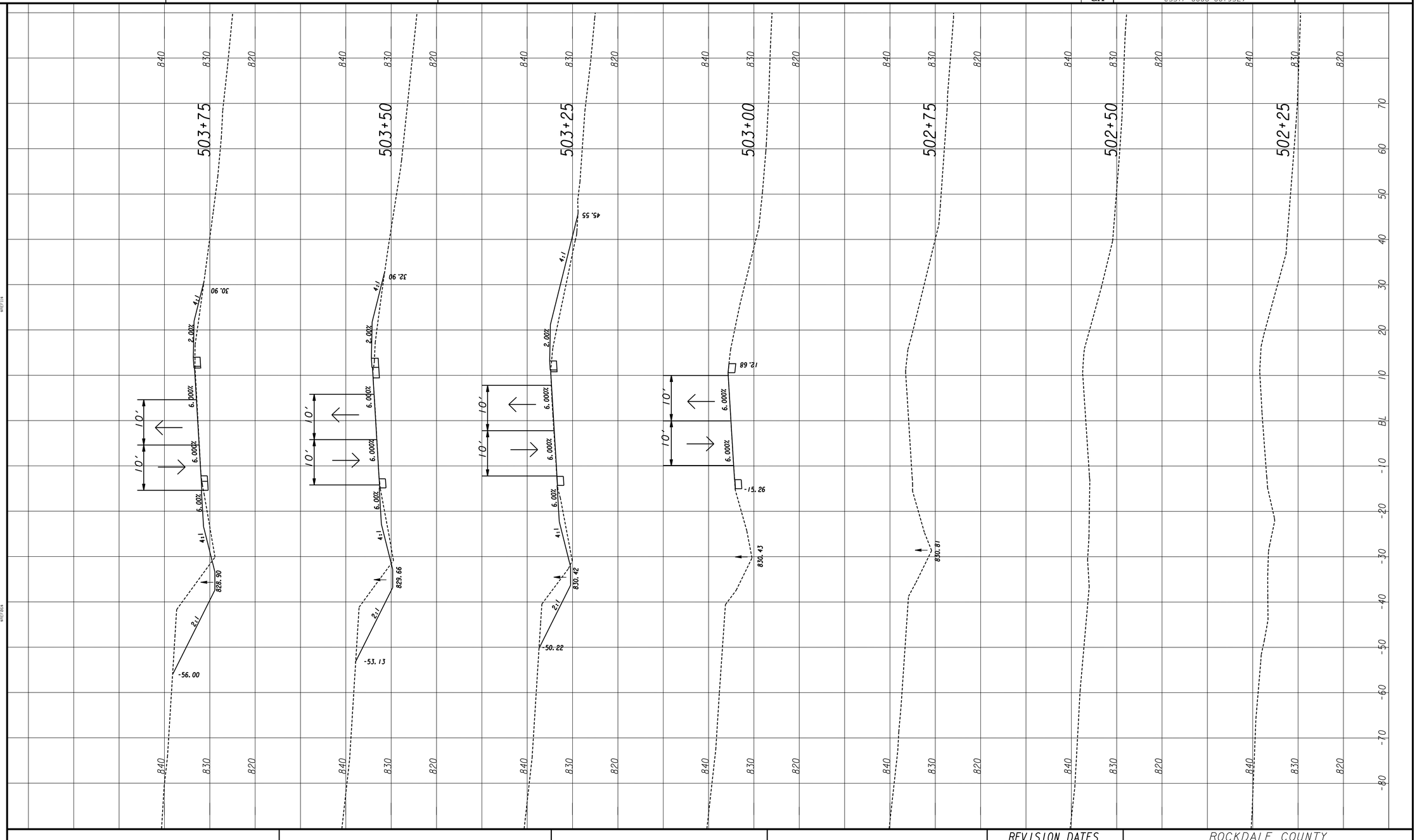
DRAWING No. 19-0014

3/1/2007 GPLN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2
CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
19-0015

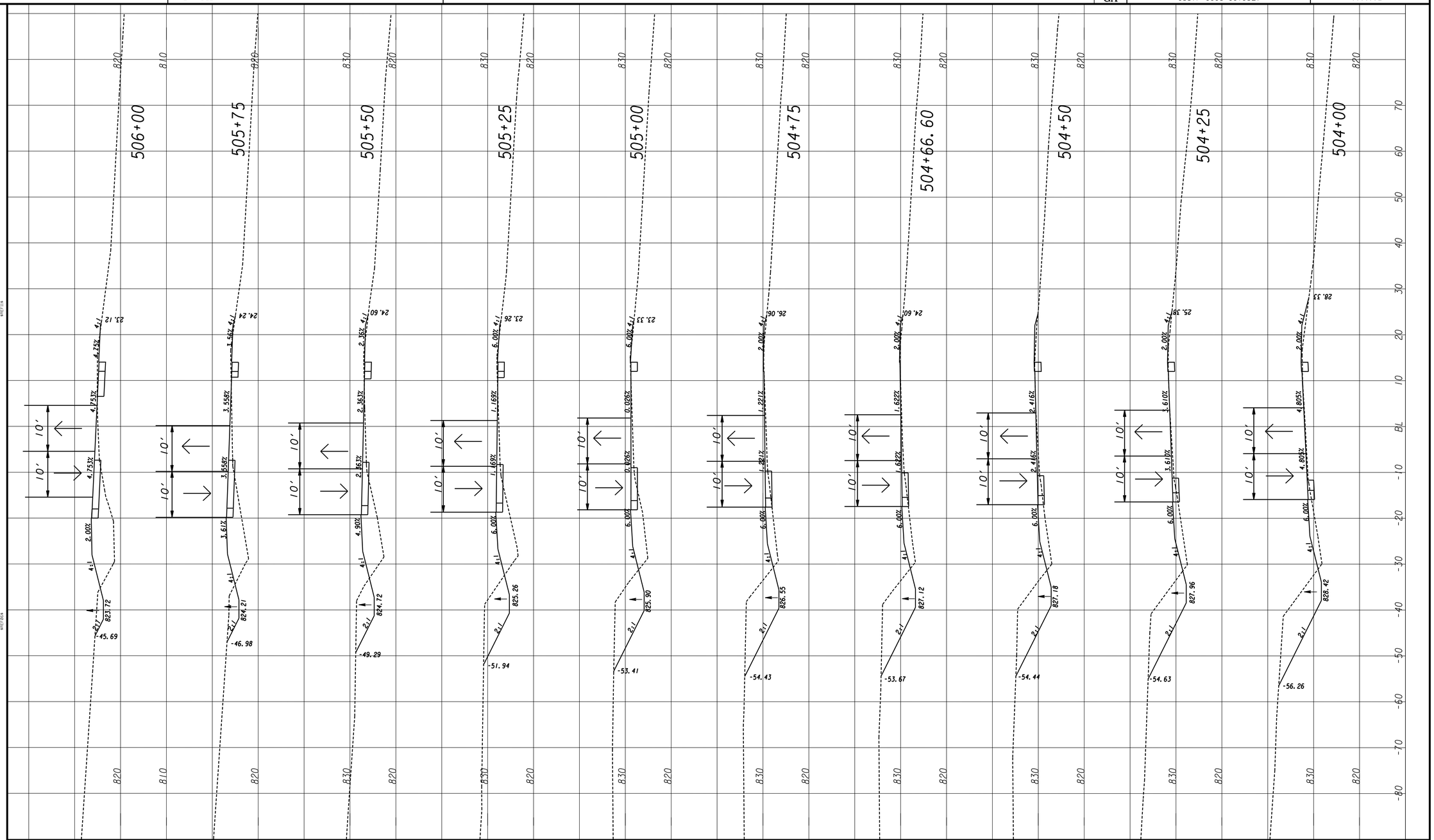
3/1/2007 SUXEN

...\Dgn\0006932-SX02A.DGN 4/13/2018 9:38:59 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

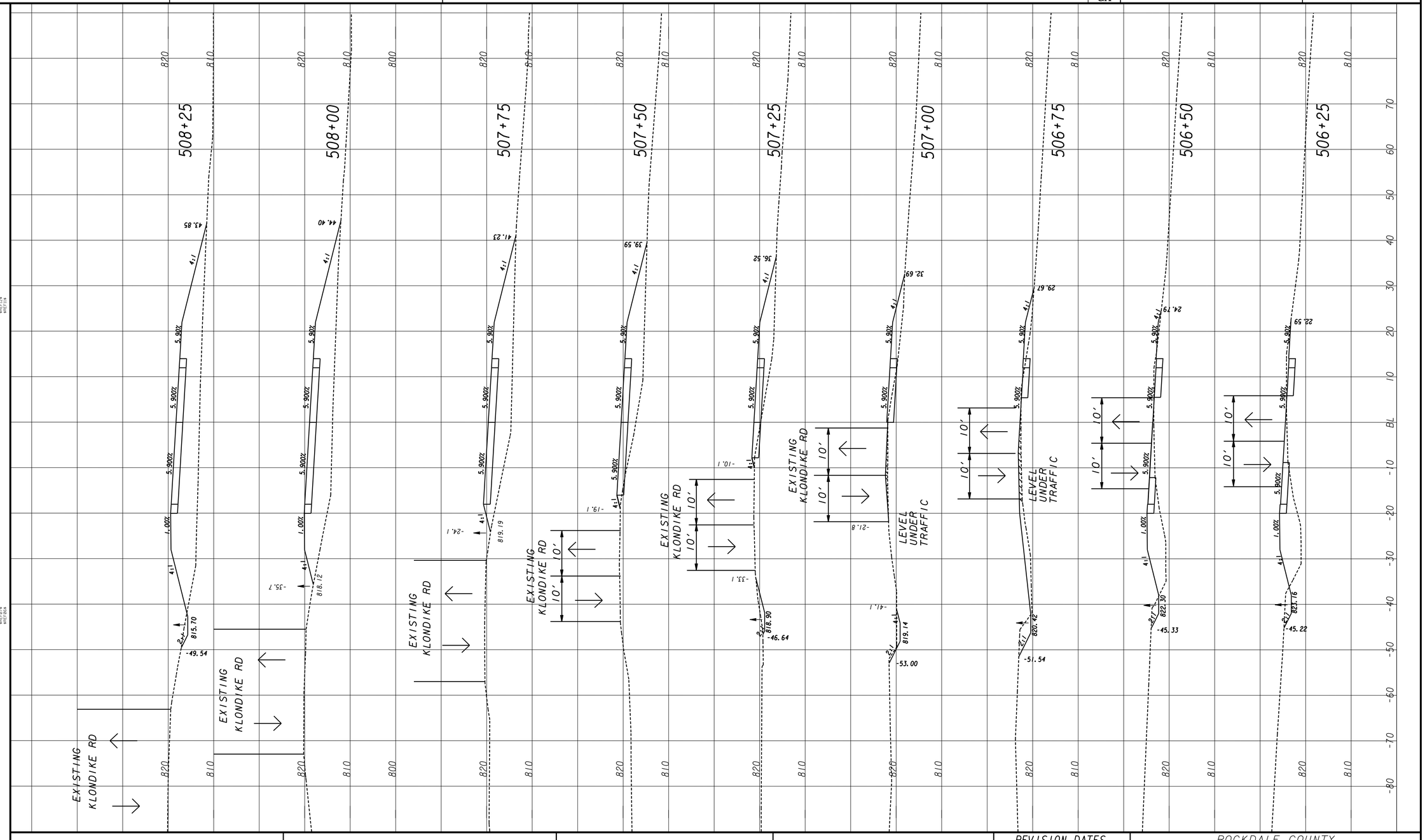
DRAWING No.
19-0016

3/1/2007 SUXEN

_\Dgn\006932-SX02A.DGN 4/13/2018 9:39:18 AM

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

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
19-0017

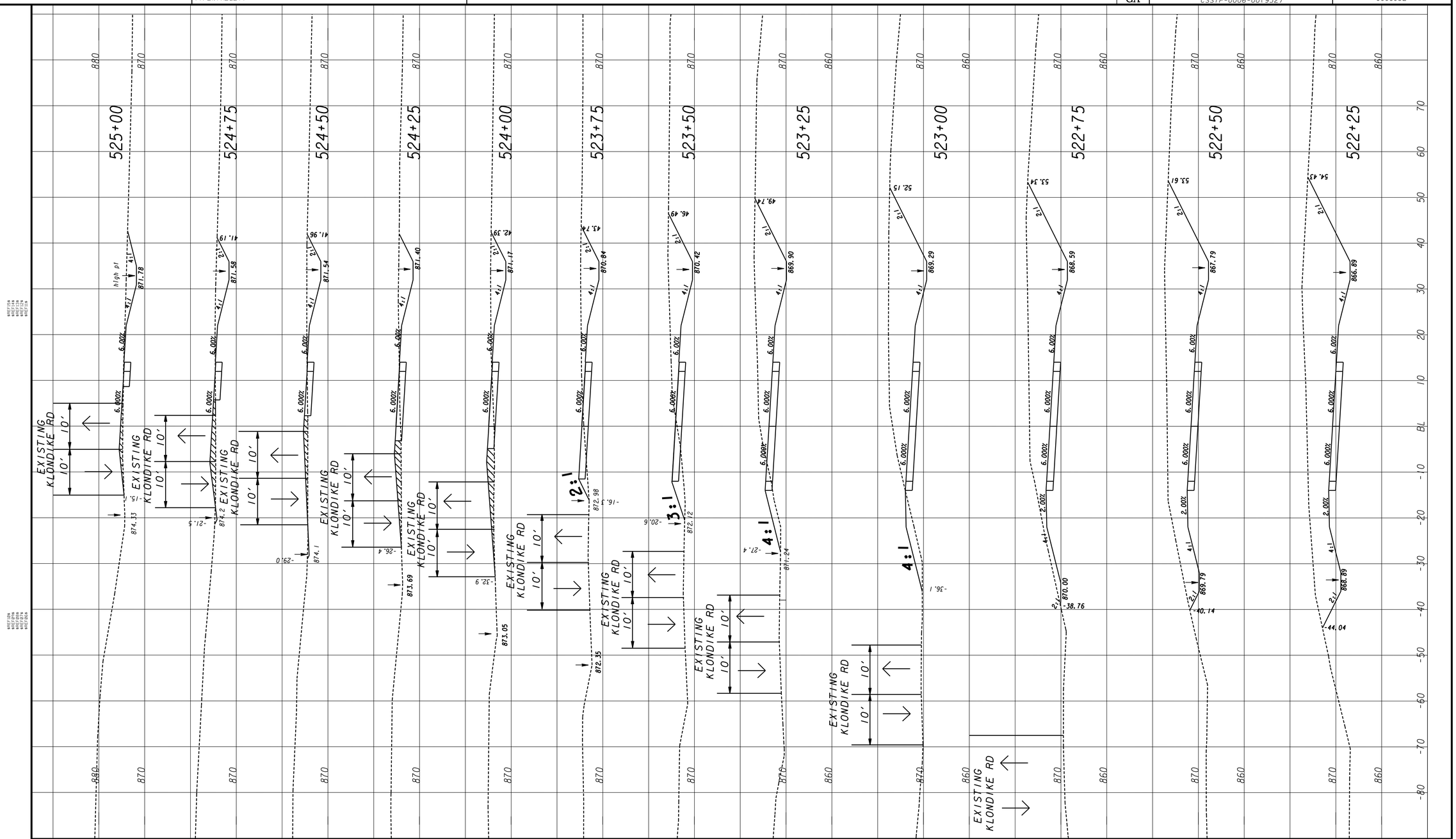
3/1/2007 SUXEN

...\Dgn\0006932-SX02A.DGN 4/13/2018 9:39:32 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0018

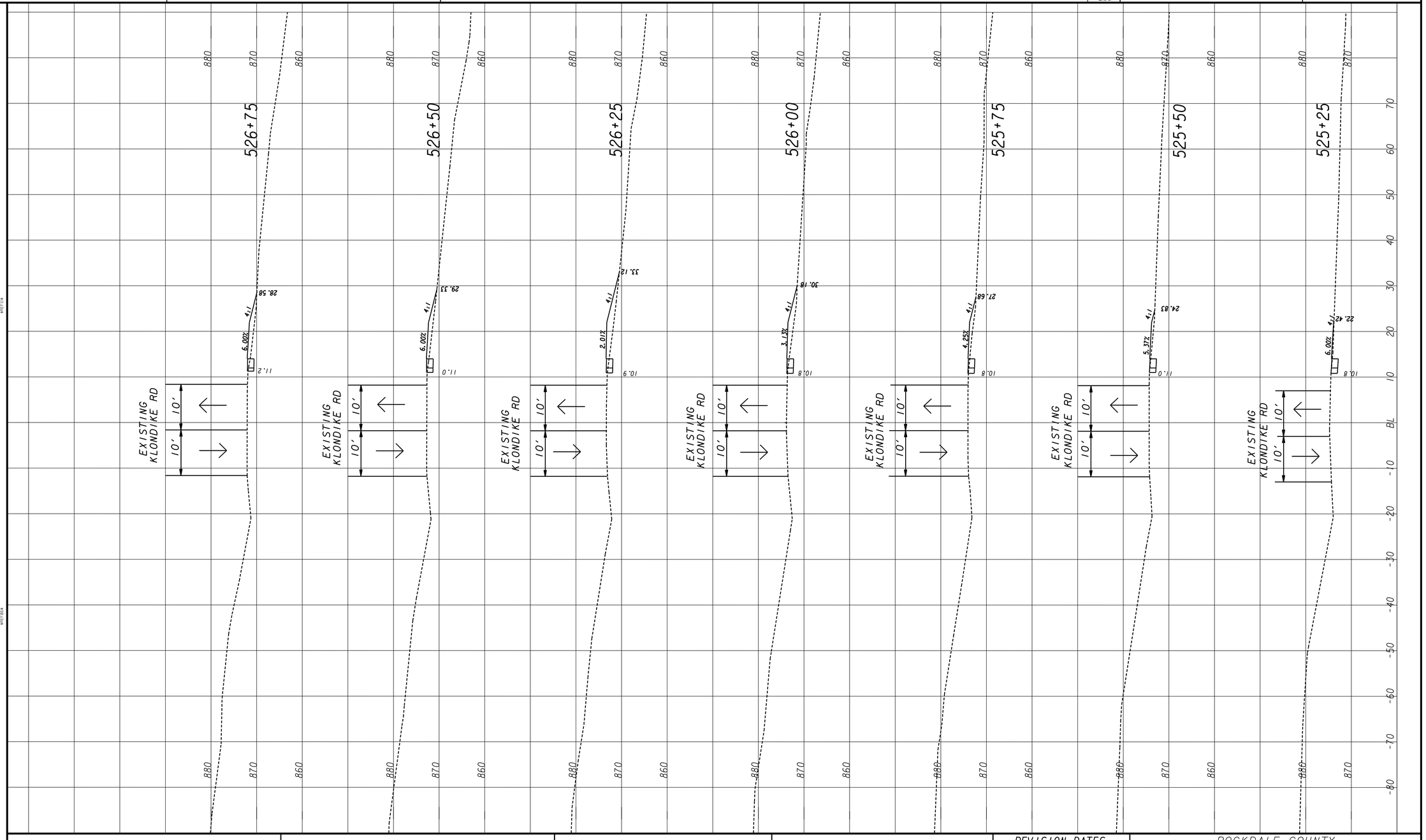
3/1/2007 SUXEN

...\Dgn\0006932-SXS028.DGN 4/13/2018 9:40:25 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
19-0019

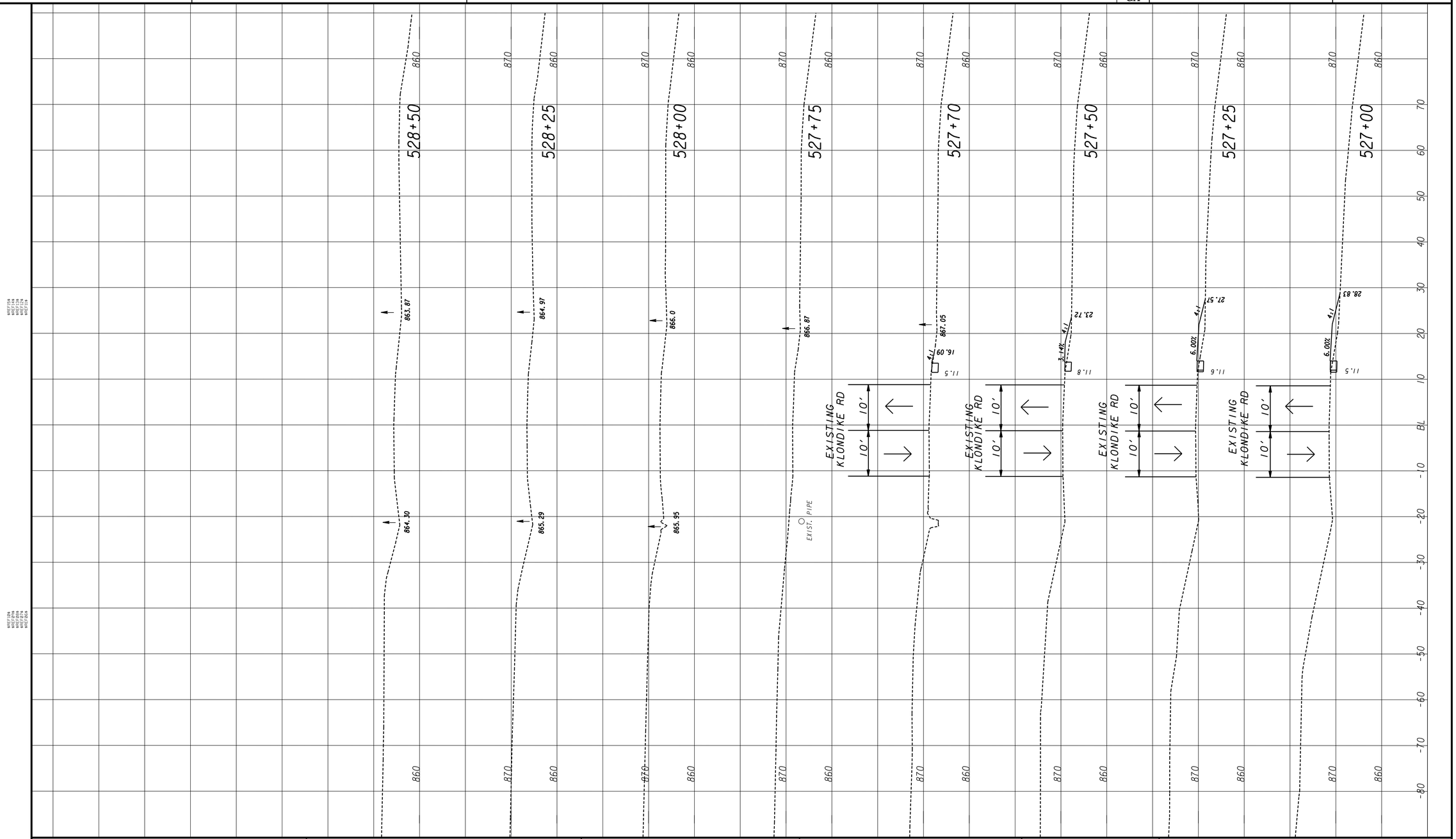
3/1/2007 SUXEN

...\Dgn\0006932-SX50028.DGN 4/13/2018 9:40:40 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0020

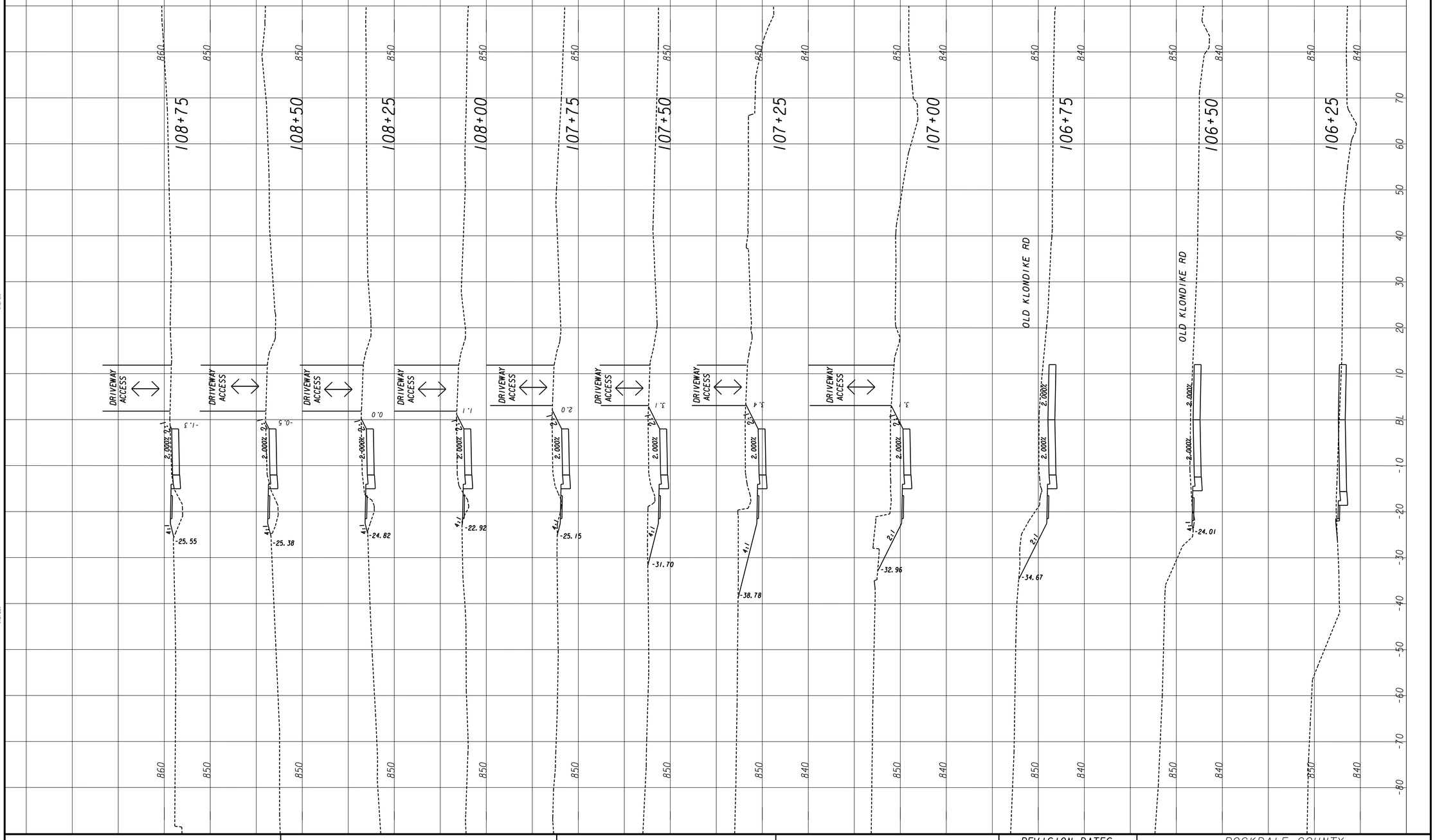
3/1/2007 SUXEN

...\Dgn\006932-SX5028.DGN 4/13/2018 9:40:53 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/11/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

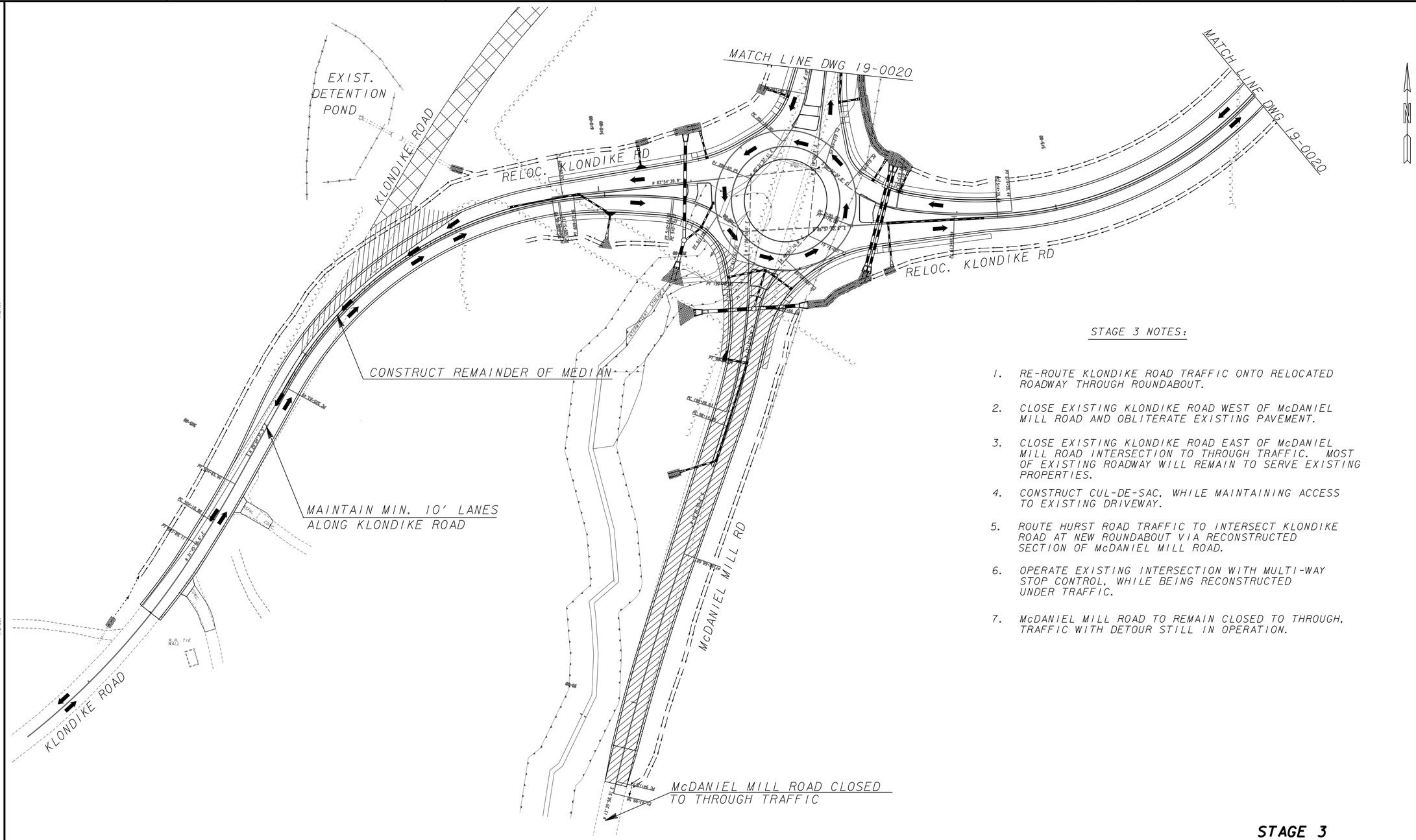
STAGE 2 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0021

...\Dgn\0006932-SX502C.DGN 4/13/2018 9:41:46 AM

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



STAGE 3 NOTES:

1. RE-ROUTE KLONDIKE ROAD TRAFFIC ONTO RELOCATED ROADWAY THROUGH ROUNDABOUT.
2. CLOSE EXISTING KLONDIKE ROAD WEST OF McDANIEL MILL ROAD AND OBLITERATE EXISTING PAVEMENT.
3. CLOSE EXISTING KLONDIKE ROAD EAST OF McDANIEL MILL ROAD INTERSECTION TO THROUGH TRAFFIC. MOST OF EXISTING ROADWAY WILL REMAIN TO SERVE EXISTING PROPERTIES.
4. CONSTRUCT CUL-DE-SAC, WHILE MAINTAINING ACCESS TO EXISTING DRIVEWAY.
5. ROUTE HURST ROAD TRAFFIC TO INTERSECT KLONDIKE ROAD AT NEW ROUNDABOUT VIA RECONSTRUCTED SECTION OF McDANIEL MILL ROAD.
6. OPERATE EXISTING INTERSECTION WITH MULTI-WAY STOP CONTROL, WHILE BEING RECONSTRUCTED UNDER TRAFFIC.
7. McDANIEL MILL ROAD TO REMAIN CLOSED TO THROUGH, TRAFFIC WITH DETOUR STILL IN OPERATION.

STAGE 3

OBLITERATE EXIST. PAVEMENT

TRAFFIC DIRECTION

PERMANENT CONSTRUCTION

PERMANENT CONSTRUCTION UNDER TRAFFIC

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 50 100 200

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

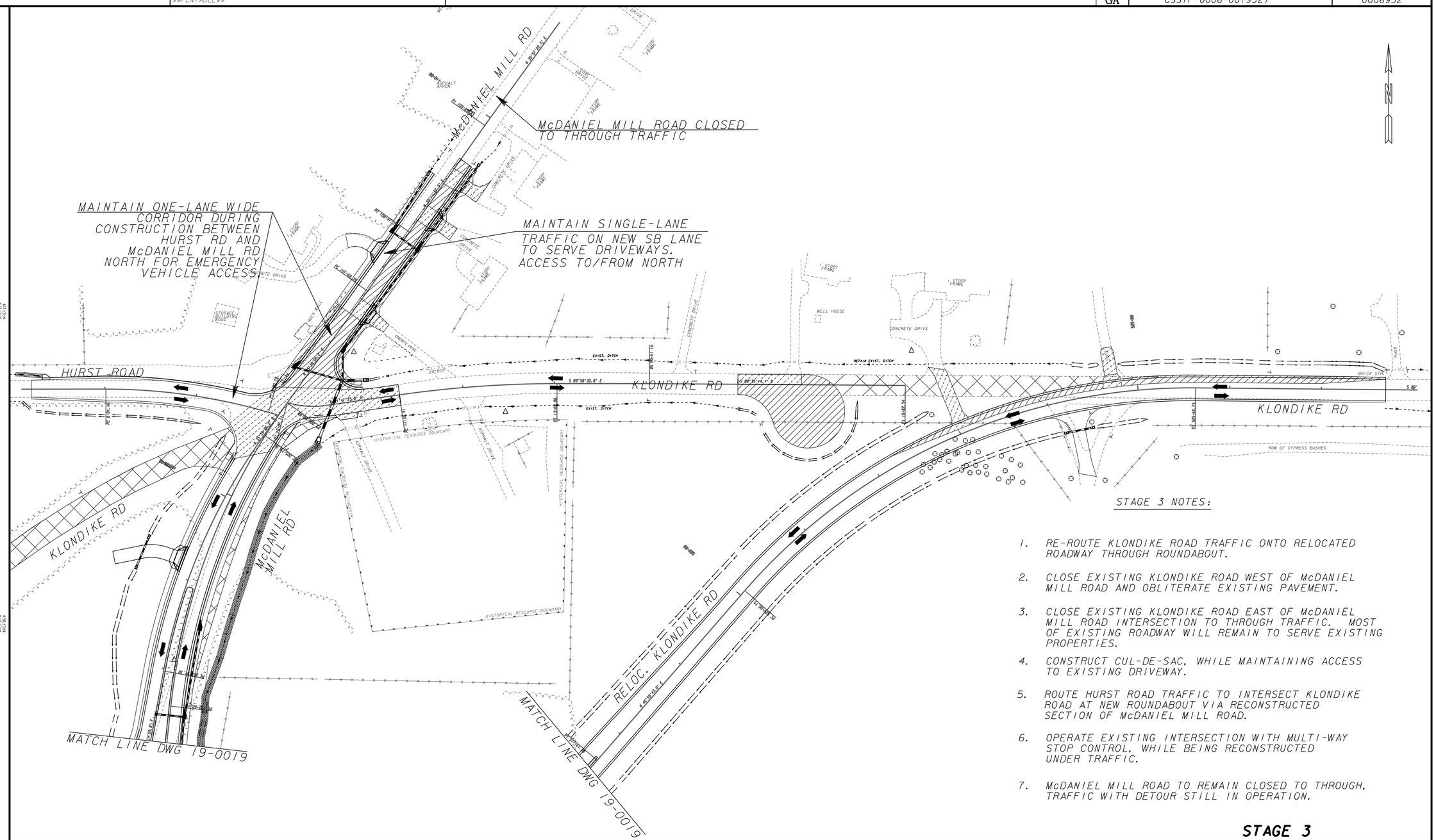
CONSTRUCTION STAGING PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0022

3/1/2007 GPLN

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



STAGE 3 NOTES:

1. RE-ROUTE KLONDIKE ROAD TRAFFIC ONTO RELOCATED ROADWAY THROUGH ROUNDABOUT.
2. CLOSE EXISTING KLONDIKE ROAD WEST OF McDANIEL MILL ROAD AND OBLITERATE EXISTING PAVEMENT.
3. CLOSE EXISTING KLONDIKE ROAD EAST OF McDANIEL MILL ROAD INTERSECTION TO THROUGH TRAFFIC. MOST OF EXISTING ROADWAY WILL REMAIN TO SERVE EXISTING PROPERTIES.
4. CONSTRUCT CUL-DE-SAC, WHILE MAINTAINING ACCESS TO EXISTING DRIVEWAY.
5. ROUTE HURST ROAD TRAFFIC TO INTERSECT KLONDIKE ROAD AT NEW ROUNDABOUT VIA RECONSTRUCTED SECTION OF McDANIEL MILL ROAD.
6. OPERATE EXISTING INTERSECTION WITH MULTI-WAY STOP CONTROL, WHILE BEING RECONSTRUCTED UNDER TRAFFIC.
7. McDANIEL MILL ROAD TO REMAIN CLOSED TO THROUGH, TRAFFIC WITH DETOUR STILL IN OPERATION.

STAGE 3

OBLITERATE EXIST. PAVEMENT

TRAFFIC DIRECTION

PERMANENT CONSTRUCTION

PERMANENT CONSTRUCTION UNDER TRAFFIC

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET

0 50 100 200

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING PLAN

KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

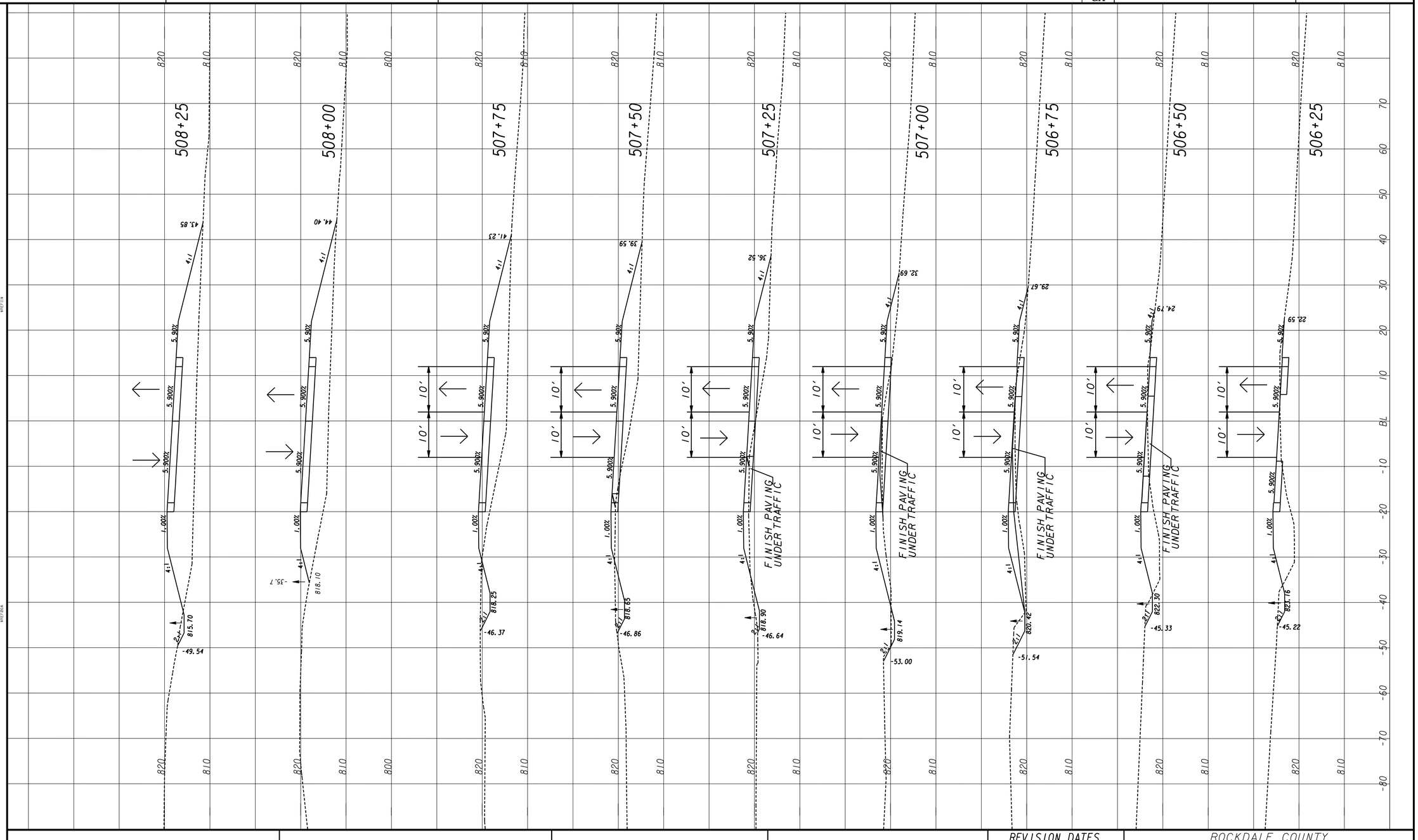
DRAWING No. 19-0023

3//2007 GPLN

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 3 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0024

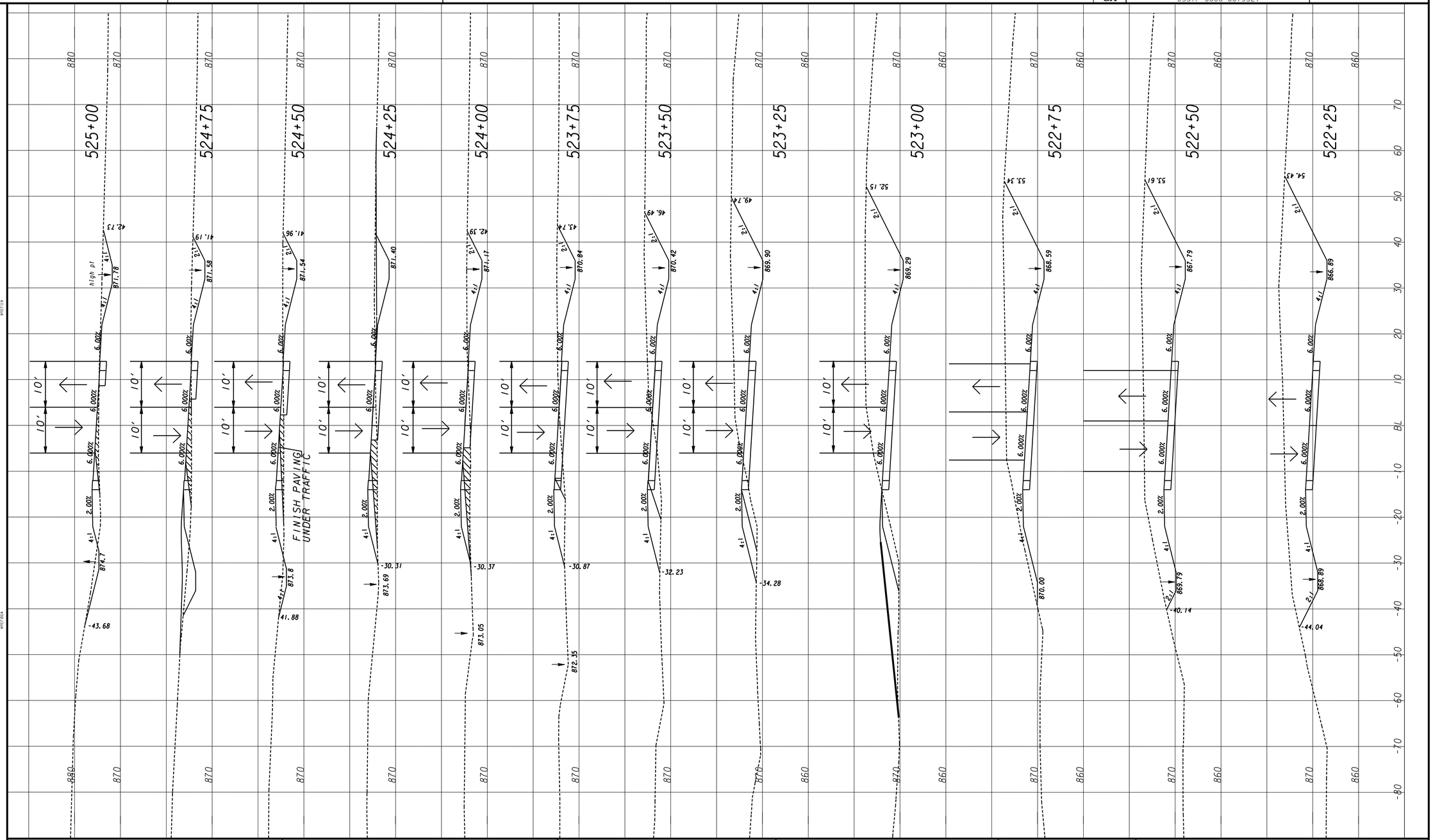
3/1/2007 SUXEN

...\Dgn\0006932-SX03A.DGN 4/13/2018 9:42:37 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 3 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
19-0025

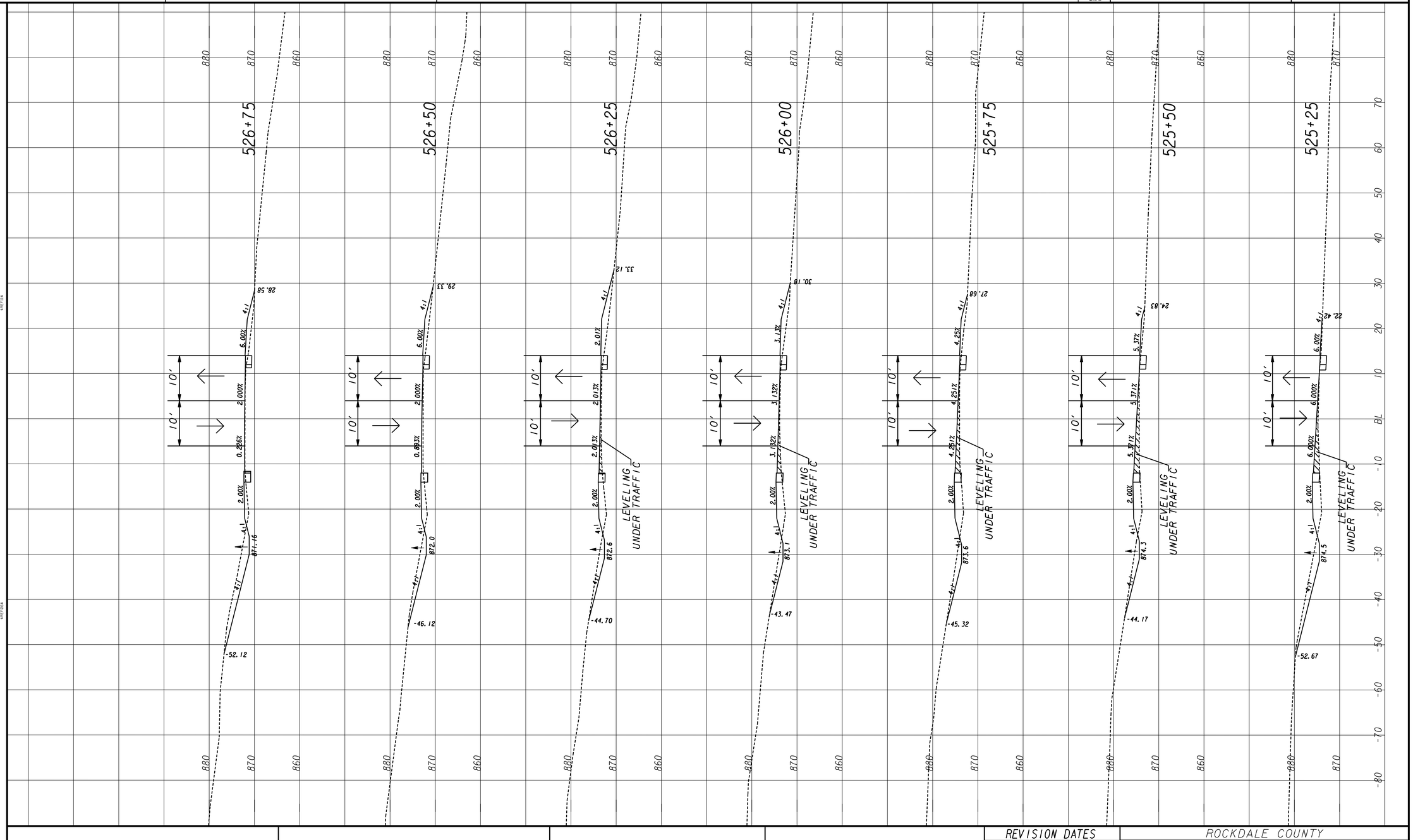
3/1/2007 SUXEN

...\Dgn\0006932-SXS038.dgn 5/8/2018 7:59:06 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



$$EF126
$$EF127
$$EF128
$$EF129
$$EF130
$$EF131

$$EF126
$$EF127
$$EF128
$$EF129
$$EF130
$$EF131

3/1/2007 SUXEN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 3 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

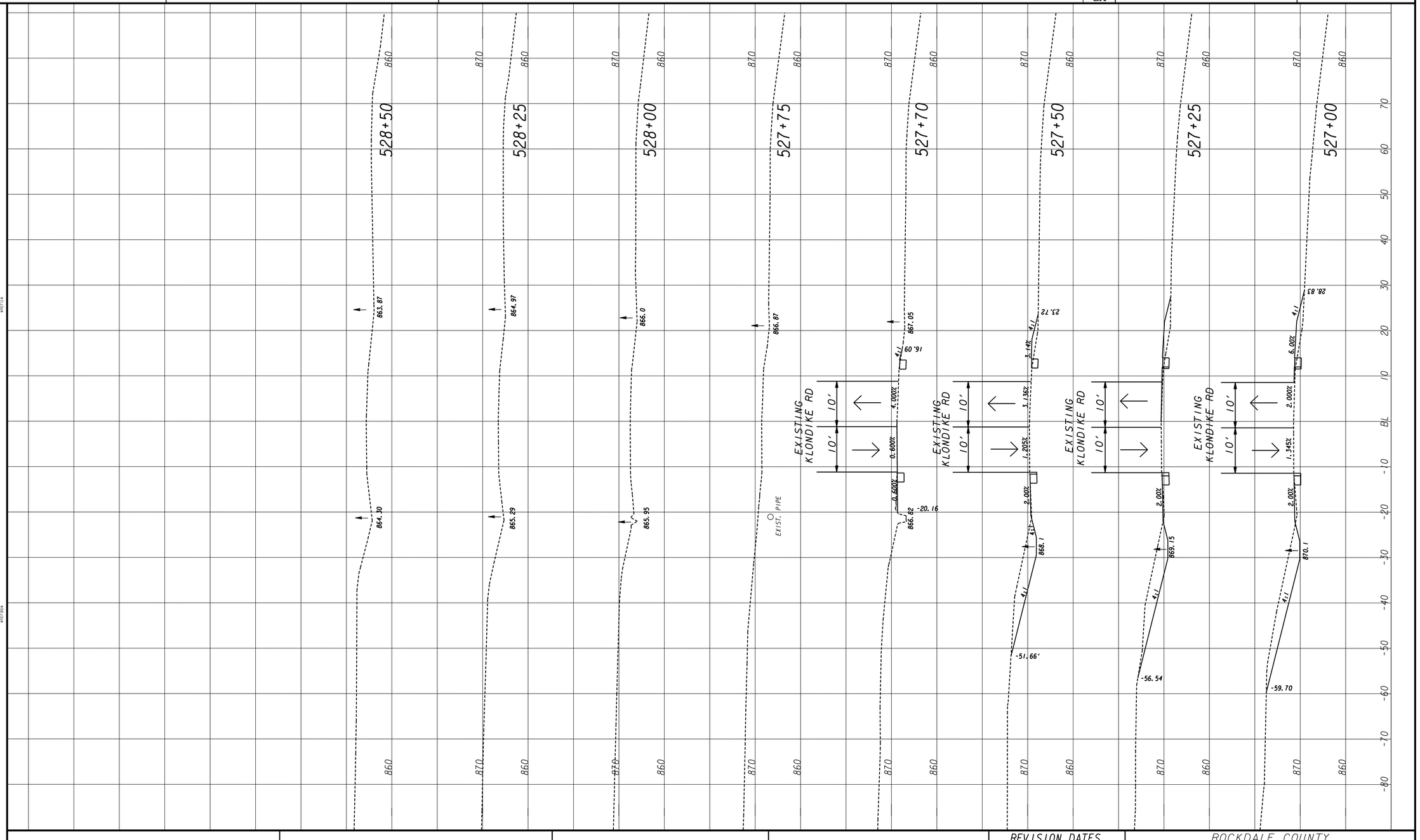
DRAWING No. 19-0026

...\Dgn\0006932-SX3038.dgn 4/13/2018 9:43:55 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 3 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0027

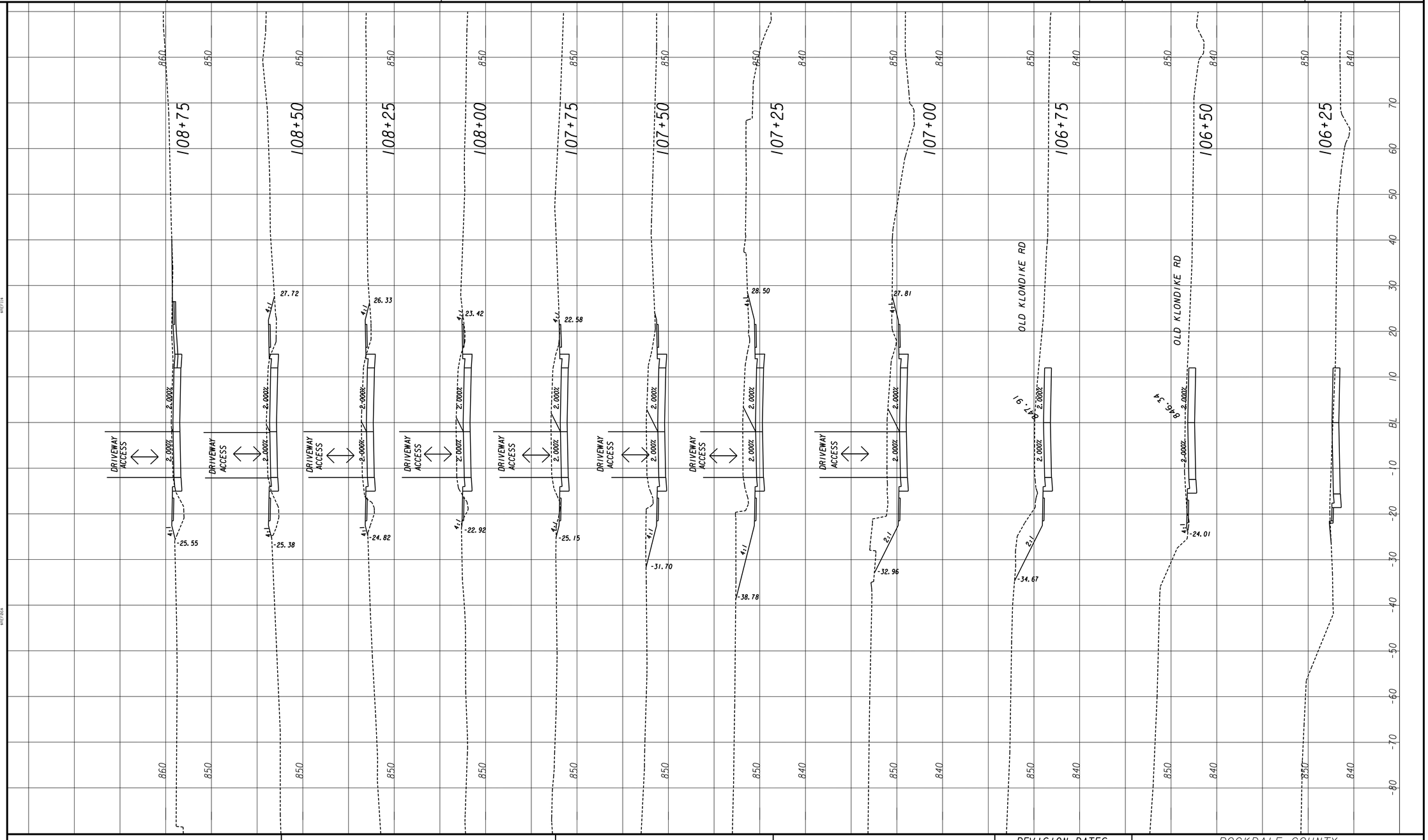
3/1/2007 SUXEN

...\Dgn\0006932-SX50SB.dgn 4/13/2018 9:44:10 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932	0006932



3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

STAGE 3 CONSTRUCTION STAGING CROSS-SECTIONS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 19-0028

...\Dgn\0006932-SXS03C.dgn 4/13/2018 9:44:34 AM

DATETIME$$$	TIME$$$	PRF	DGN	COUNTY	PROJECT NUMBER	P. I. No.
$USER$		$$PENTABLE$$		FULTON	CSSTP-0006-00(932)	0006932

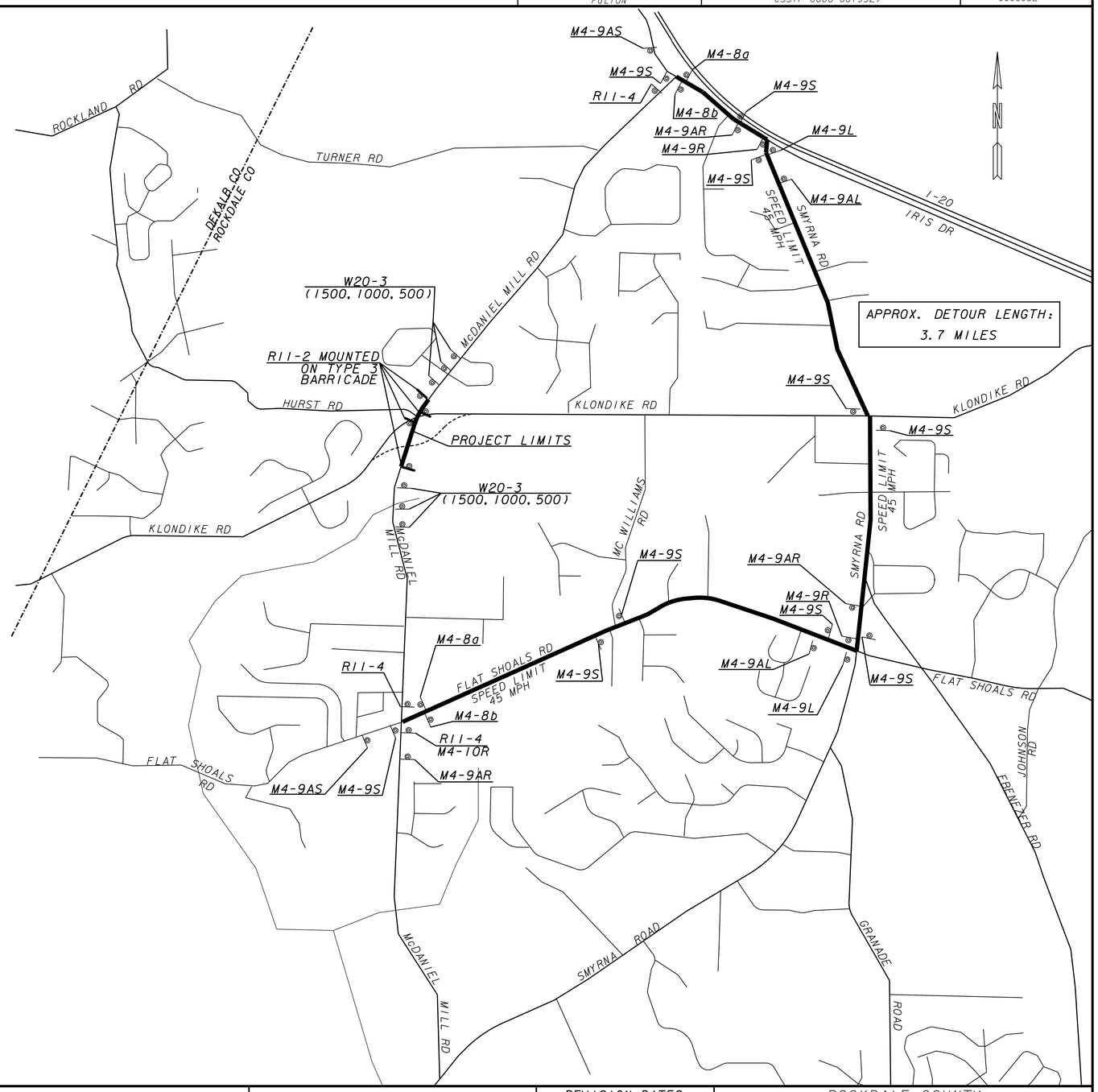
SIGN LEGEND

W20-3(500) (36"X36")	ROAD CLOSED 500 FT
W20-3(1000) (36"X36")	ROAD CLOSED 1000 FT
W20-3(1500) (36"X36")	ROAD CLOSED 1500 FT
R11-2 (36"X36")	ROAD CLOSED — ON TYPE III BARRICADE
R11-4 (30"X30")	ROAD CLOSED TO THRU TRAFFIC
M4-9R (30"X24")	DETOUR →
M4-9L (30"X24")	DETOUR ←
M4-9S (30"X24")	DETOUR ↑
M4-9AR (30"X24") (30"X12")	DETOUR → 500 FT
M4-9AL (30"X24") (30"X12")	DETOUR ← 500 FT
M4-9AS (30"X24") (30"X12")	DETOUR ↑ 500 FT
D3 (42"X8")	McDANIEL MILL ROAD
M4-8a (24"X18")	END DETOUR
M4-8b (24"X18")	BEGIN DETOUR
M4-10R (24"X18")	DETOUR ⇨

* ADD McDANIEL MILL RD. ADVISORY STREET NAME BLADE (D3) TO ALL M4- DETOUR SIGNS

NOTE: ALL SIGNS TO BE METAL

NOTE: CONTRACTOR WILL BE RESPONSIBLE FOR ALL DETOUR SIGNING.



		• Engineering • Planning 145 Technology Parkway NW Suite 210 Peachtree Corners, GA 30092 (404) 329-8900	NOT TO SCALE

REVISION DATES		

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

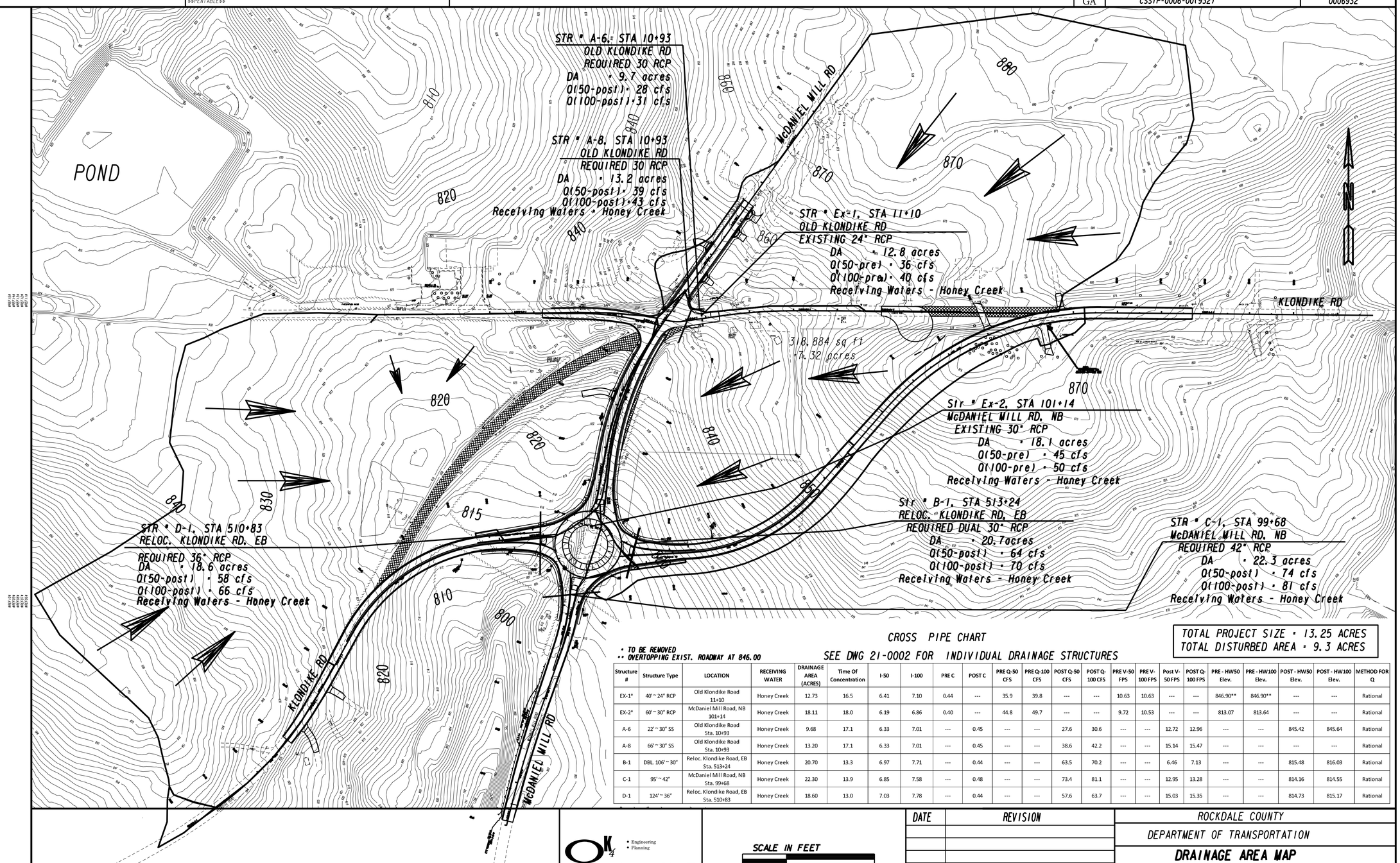
KLONDIKE RD/McDANIEL MILL RD
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 20-0001

GPLN

\dgn\0006932SD01.dgn 4/13/2018 10:11:34 AM

DATE$$	TIME$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-0019321	0006932



CROSS PIPE CHART

SEE DWG 21-0002 FOR INDIVIDUAL DRAINAGE STRUCTURES

* TO BE REMOVED
** OVERTOPPING EXIST. ROADWAY AT 846.00

Structure #	Structure Type	LOCATION	RECEIVING WATER	DRAINAGE AREA (ACRES)	Time Of Concentration	I-50	I-100	PRE C	POST C	PRE Q-50 CFS	PRE Q-100 CFS	POST Q-50 CFS	POST Q-100 CFS	PRE V-50 FPS	PRE V-100 FPS	Post V-50 FPS	POST Q-100 FPS	PRE - HW50 Elev.	PRE - HW100 Elev.	POST - HW50 Elev.	POST - HW100 Elev.	METHOD FOR Q
EX-1*	40" ~ 24" RCP	Old Klondike Road 11+10	Honey Creek	12.73	16.5	6.41	7.10	0.44	---	35.9	39.8	---	---	10.63	10.63	---	---	846.90**	846.90**	---	---	Rational
EX-2*	60" ~ 30" RCP	McDaniel Mill Road, NB 101+14	Honey Creek	18.11	18.0	6.19	6.86	0.40	---	44.8	49.7	---	---	9.72	10.53	---	---	813.07	813.64	---	---	Rational
A-6	22" ~ 30" SS	Old Klondike Road Sta. 10+93	Honey Creek	9.68	17.1	6.33	7.01	---	0.45	---	---	27.6	30.6	---	---	12.72	12.96	---	---	845.42	845.64	Rational
A-8	66" ~ 30" SS	Old Klondike Road Sta. 10+93	Honey Creek	13.20	17.1	6.33	7.01	---	0.45	---	---	38.6	42.2	---	---	15.14	15.47	---	---	---	---	Rational
B-1	DBL. 106" ~ 30"	Reloc. Klondike Road, EB Sta. 513+24	Honey Creek	20.70	13.3	6.97	7.71	---	0.44	---	---	63.5	70.2	---	---	6.46	7.13	---	---	815.48	816.03	Rational
C-1	95" ~ 42"	McDaniel Mill Road, NB Sta. 99+68	Honey Creek	22.30	13.9	6.85	7.58	---	0.48	---	---	73.4	81.1	---	---	12.95	13.28	---	---	814.16	814.55	Rational
D-1	124" ~ 36"	Reloc. Klondike Road, EB Sta. 510+83	Honey Creek	18.60	13.0	7.03	7.78	---	0.44	---	---	57.6	63.7	---	---	15.03	15.35	---	---	814.73	815.17	Rational

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

• Engineering
• Planning

145 echnology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
100 200 400

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

DRAINAGE AREA MAP

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

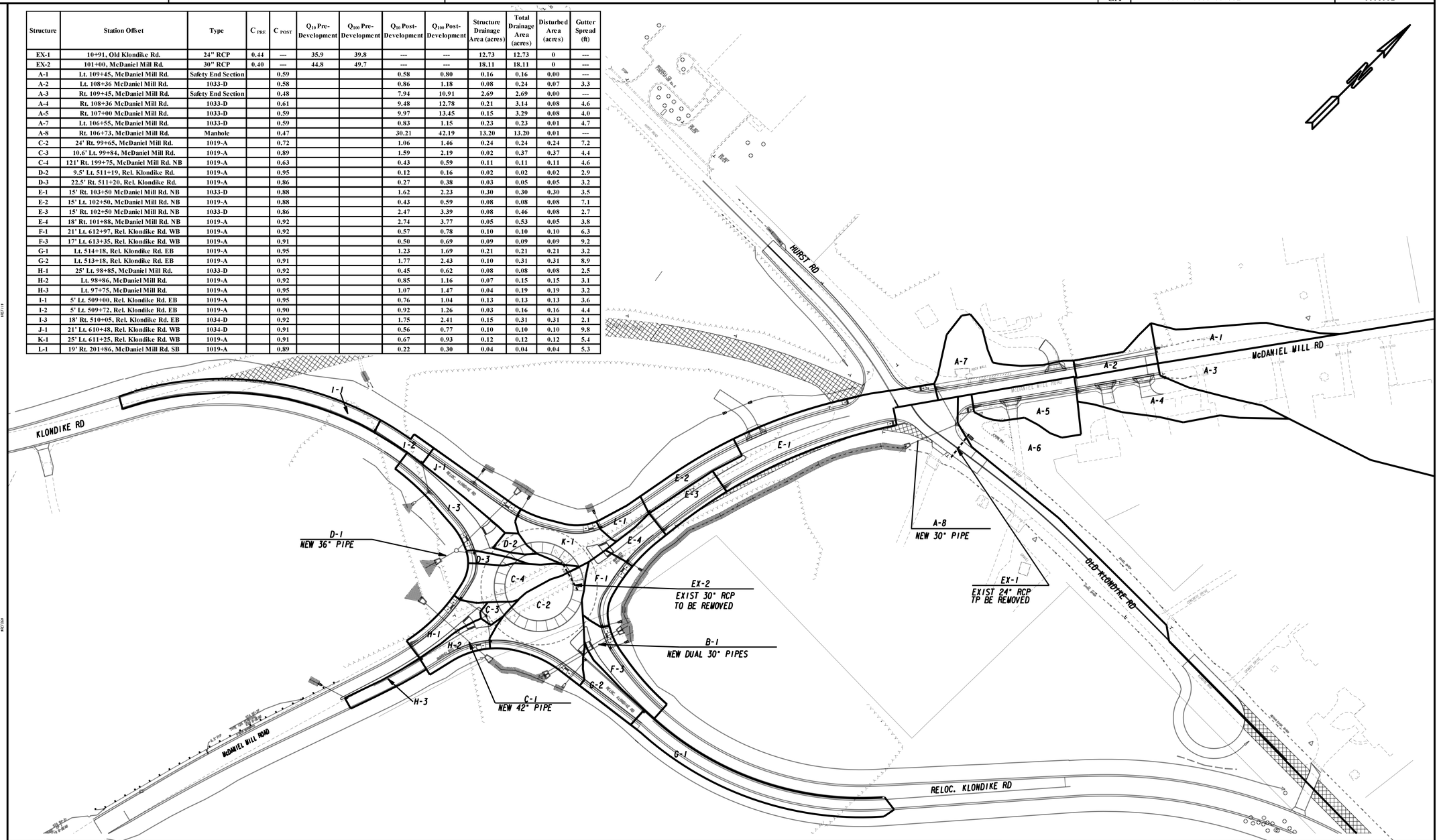
DRAWING No.
21-0001

3/1/2007 GPLN

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

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

Structure	Station Offset	Type	C_{PRE}	C_{POST}	Q_{10} Pre-Development	Q_{100} Pre-Development	Q_{10} Post-Development	Q_{100} Post-Development	Structure Drainage Area (acres)	Total Drainage Area (acres)	Disturbed Area (acres)	Gutter Spread (ft)
EX-1	10+91, Old Klondike Rd.	24" RCP	0.44	---	35.9	39.8	---	---	12.73	12.73	0	---
EX-2	101+00, McDaniel Mill Rd.	30" RCP	0.40	---	44.8	49.7	---	---	18.11	18.11	0	---
A-1	Lt. 109+45, McDaniel Mill Rd.	Safety End Section		0.59			0.58	0.80	0.16	0.16	0.00	---
A-2	Lt. 108+36 McDaniel Mill Rd.	1033-D		0.58			0.86	1.18	0.08	0.24	0.07	3.3
A-3	Rt. 109+45, McDaniel Mill Rd.	Safety End Section		0.48			7.94	10.91	2.69	2.69	0.00	---
A-4	Rt. 108+36 McDaniel Mill Rd.	1033-D		0.61			9.48	12.78	0.21	3.14	0.08	4.6
A-5	Rt. 107+00 McDaniel Mill Rd.	1033-D		0.59			9.97	13.45	0.15	3.29	0.08	4.0
A-7	Lt. 106+55, McDaniel Mill Rd.	1033-D		0.59			0.83	1.15	0.23	0.23	0.01	4.7
A-8	Rt. 106+73, McDaniel Mill Rd.	Manhole		0.47			30.21	42.19	13.20	13.20	0.01	---
C-2	24' Rt. 99+65, McDaniel Mill Rd.	1019-A		0.72			1.06	1.46	0.24	0.24	0.24	7.2
C-3	10.6' Lt. 99+84, McDaniel Mill Rd.	1019-A		0.89			1.59	2.19	0.02	0.37	0.37	4.4
C-4	121' Rt. 199+75, McDaniel Mill Rd. NB	1019-A		0.63			0.43	0.59	0.11	0.11	0.11	4.6
D-2	9.5' Lt. 511+19, Rel. Klondike Rd.	1019-A		0.95			0.12	0.16	0.02	0.02	0.02	2.9
D-3	22.5' Rt. 511+20, Rel. Klondike Rd.	1019-A		0.86			0.27	0.38	0.03	0.05	0.05	3.2
E-1	15' Rt. 103+50 McDaniel Mill Rd. NB	1033-D		0.88			1.62	2.23	0.30	0.30	0.30	3.5
E-2	15' Lt. 102+50, McDaniel Mill Rd. NB	1019-A		0.88			0.43	0.59	0.08	0.08	0.08	7.1
E-3	15' Rt. 102+50 McDaniel Mill Rd. NB	1033-D		0.86			2.47	3.39	0.08	0.46	0.08	2.7
E-4	18' Rt. 101+88, McDaniel Mill Rd. NB	1019-A		0.92			2.74	3.77	0.05	0.53	0.05	3.8
F-1	21' Lt. 612+97, Rel. Klondike Rd. WB	1019-A		0.92			0.57	0.78	0.10	0.10	0.10	6.3
F-3	17' Lt. 613+35, Rel. Klondike Rd. WB	1019-A		0.91			0.50	0.69	0.09	0.09	0.09	9.2
G-1	Lt. 514+18, Rel. Klondike Rd. EB	1019-A		0.95			1.23	1.69	0.21	0.21	0.21	3.2
G-2	Lt. 513+18, Rel. Klondike Rd. EB	1019-A		0.91			1.77	2.43	0.10	0.31	0.31	8.9
H-1	25' Lt. 98+85, McDaniel Mill Rd.	1033-D		0.92			0.45	0.62	0.08	0.08	0.08	2.5
H-2	Lt. 98+86, McDaniel Mill Rd.	1019-A		0.92			0.85	1.16	0.07	0.15	0.15	3.1
H-3	Lt. 97+75, McDaniel Mill Rd.	1019-A		0.95			1.07	1.47	0.04	0.19	0.19	3.2
I-1	5' Lt. 509+00, Rel. Klondike Rd. EB	1019-A		0.95			0.76	1.04	0.13	0.13	0.13	3.6
I-2	5' Lt. 509+72, Rel. Klondike Rd. EB	1019-A		0.90			0.92	1.26	0.03	0.16	0.16	4.4
I-3	18' Rt. 510+05, Rel. Klondike Rd. EB	1034-D		0.92			1.75	2.41	0.15	0.31	0.31	2.1
J-1	21' Lt. 610+48, Rel. Klondike Rd. WB	1034-D		0.91			0.56	0.77	0.10	0.10	0.10	9.8
K-1	25' Lt. 611+25, Rel. Klondike Rd. WB	1019-A		0.91			0.67	0.93	0.12	0.12	0.12	5.4
L-1	19' Rt. 201+86, McDaniel Mill Rd. SB	1019-A		0.89			0.22	0.30	0.04	0.04	0.04	5.3



3/1/2007 GPLN

• Engineering
• Planning

145 echnology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-0900

SCALE IN FEET
0 60 120 240

DATE	REVISION

ROCKDALE COUNTY

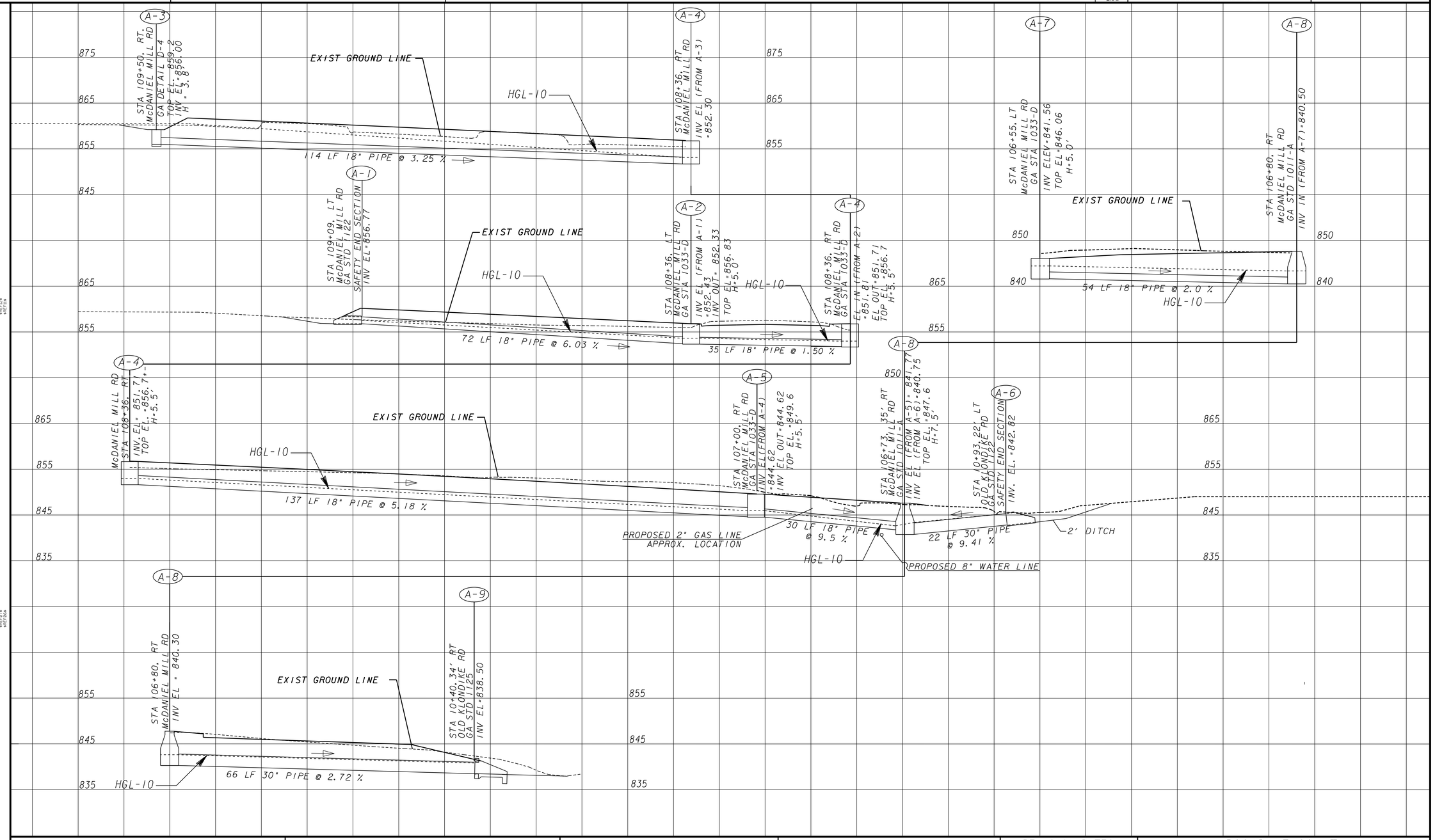
DEPARTMENT OF TRANSPORTATION

DRAINAGE AREA MAP

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 21-0002

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	P. I. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZONTAL & VERTICAL:

SCALE IN FEET

0 10 20 40

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 22-0001

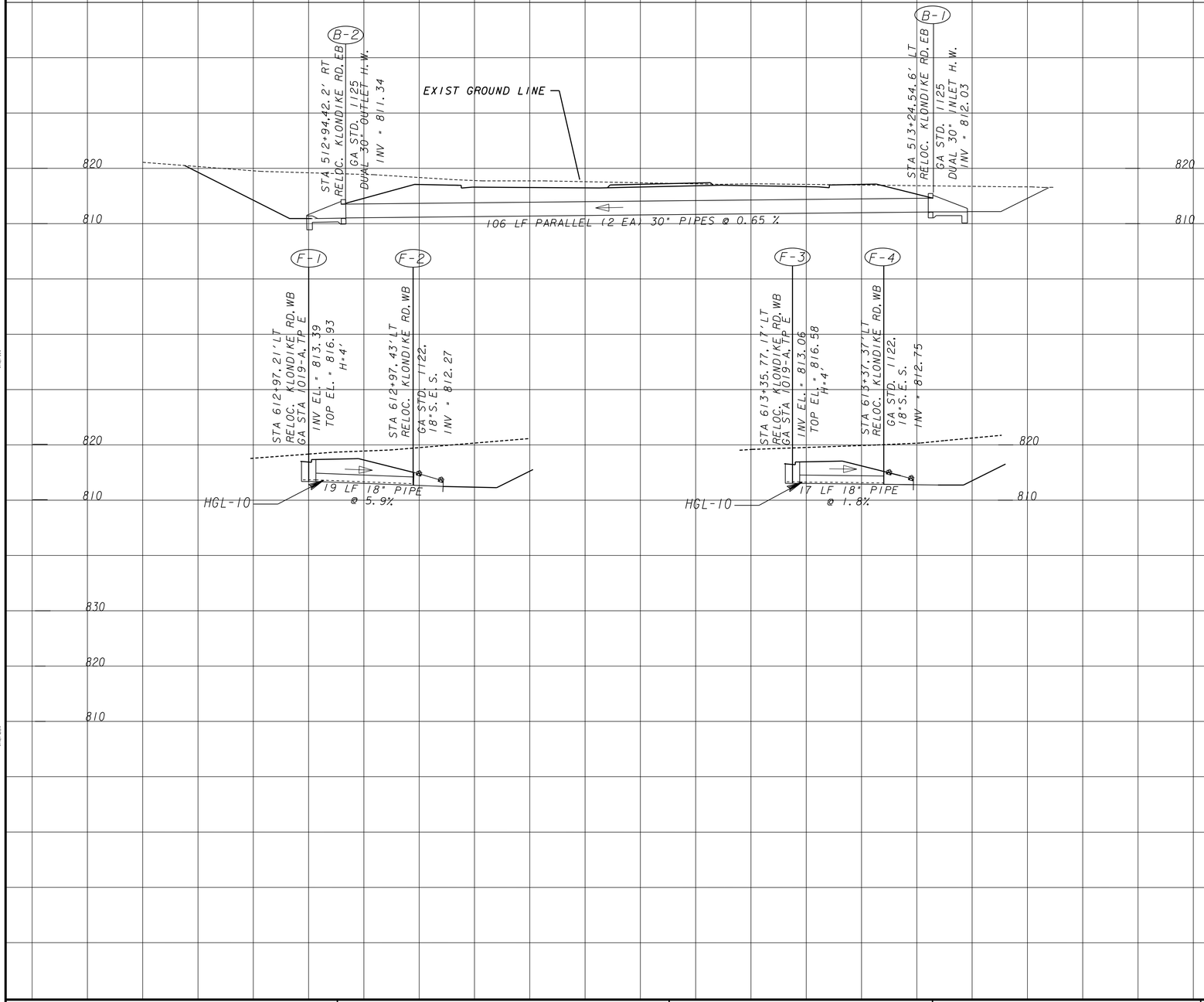
3/1/2007 SUXSEW

...\Dgn\0006932\DP01.dgn 8/8/2018 3:20:34 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZONTAL & VERTICAL:

SCALE IN FEET

0 10 20 40

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 22-0002

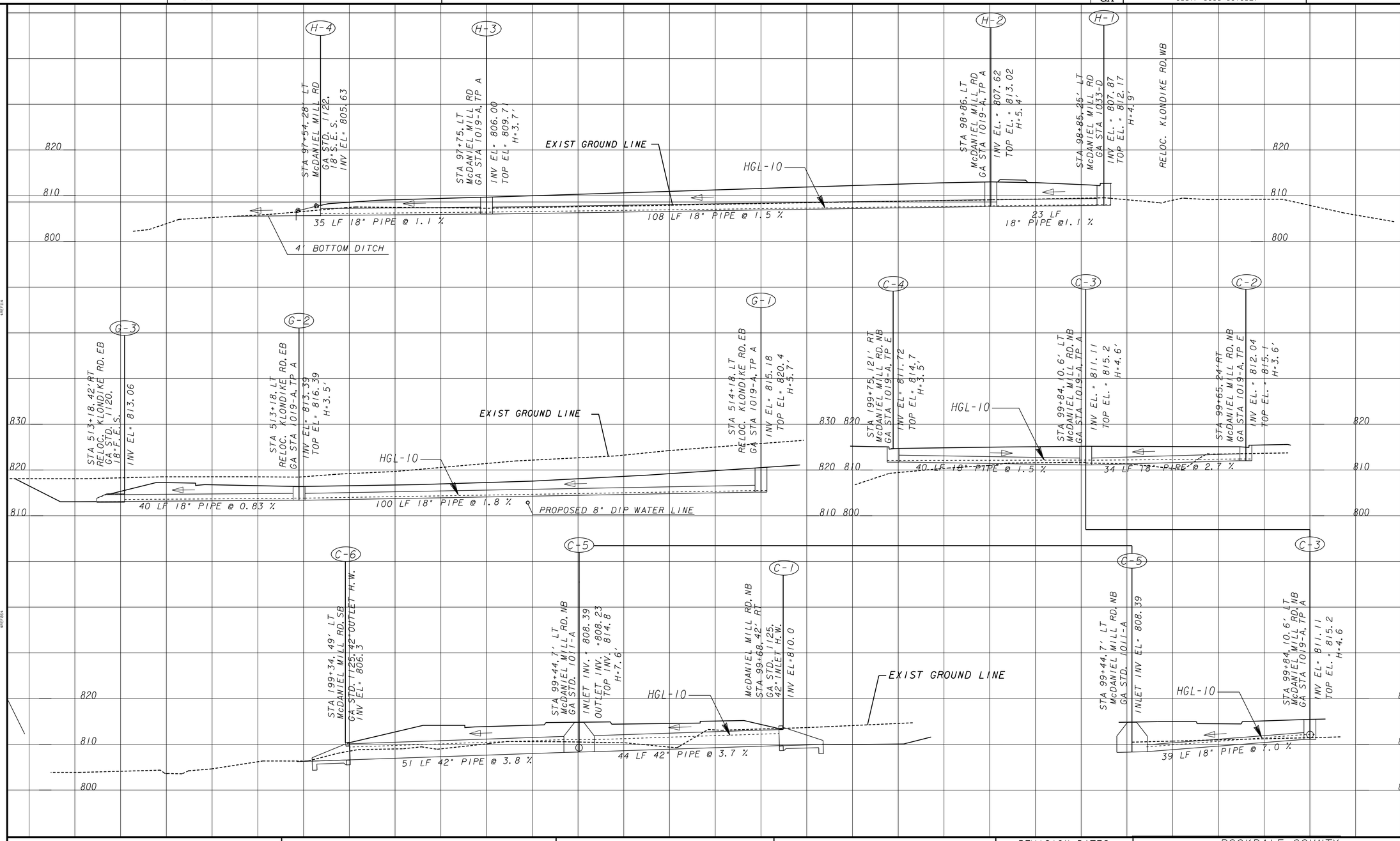
3/1/2007 SUXSEW

...\Dgn\0006932DP01.dgn 4/13/2018 2:52:32 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZONTAL & VERTICAL:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 22-0003

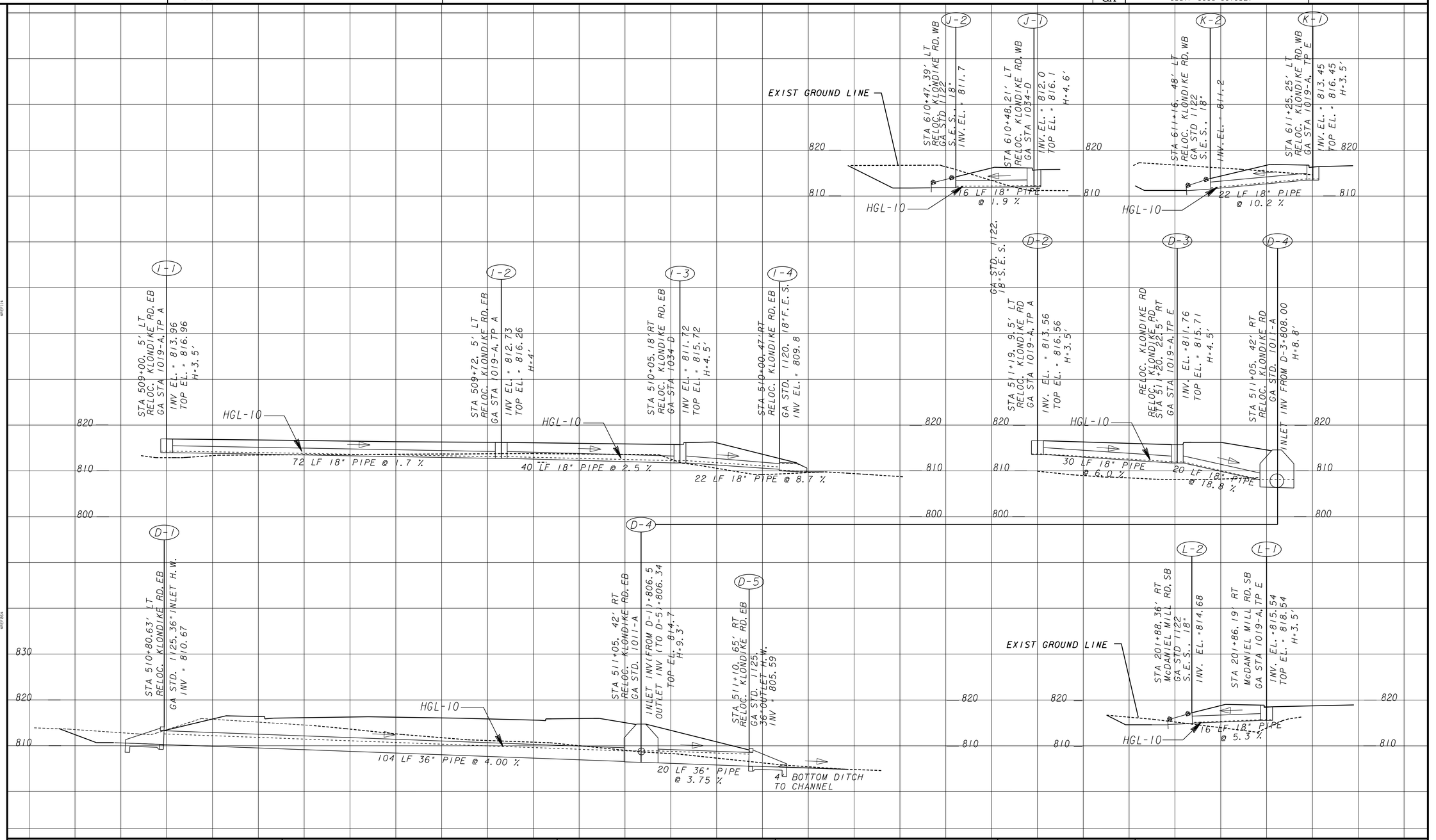
3//2007 SUXSEW

...\Dgn\0006932\DP01.dgn 4/13/2018 2:52:54 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXSEW

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZONTAL & VERTICAL:

SCALE IN FEET

0 10 20 40

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

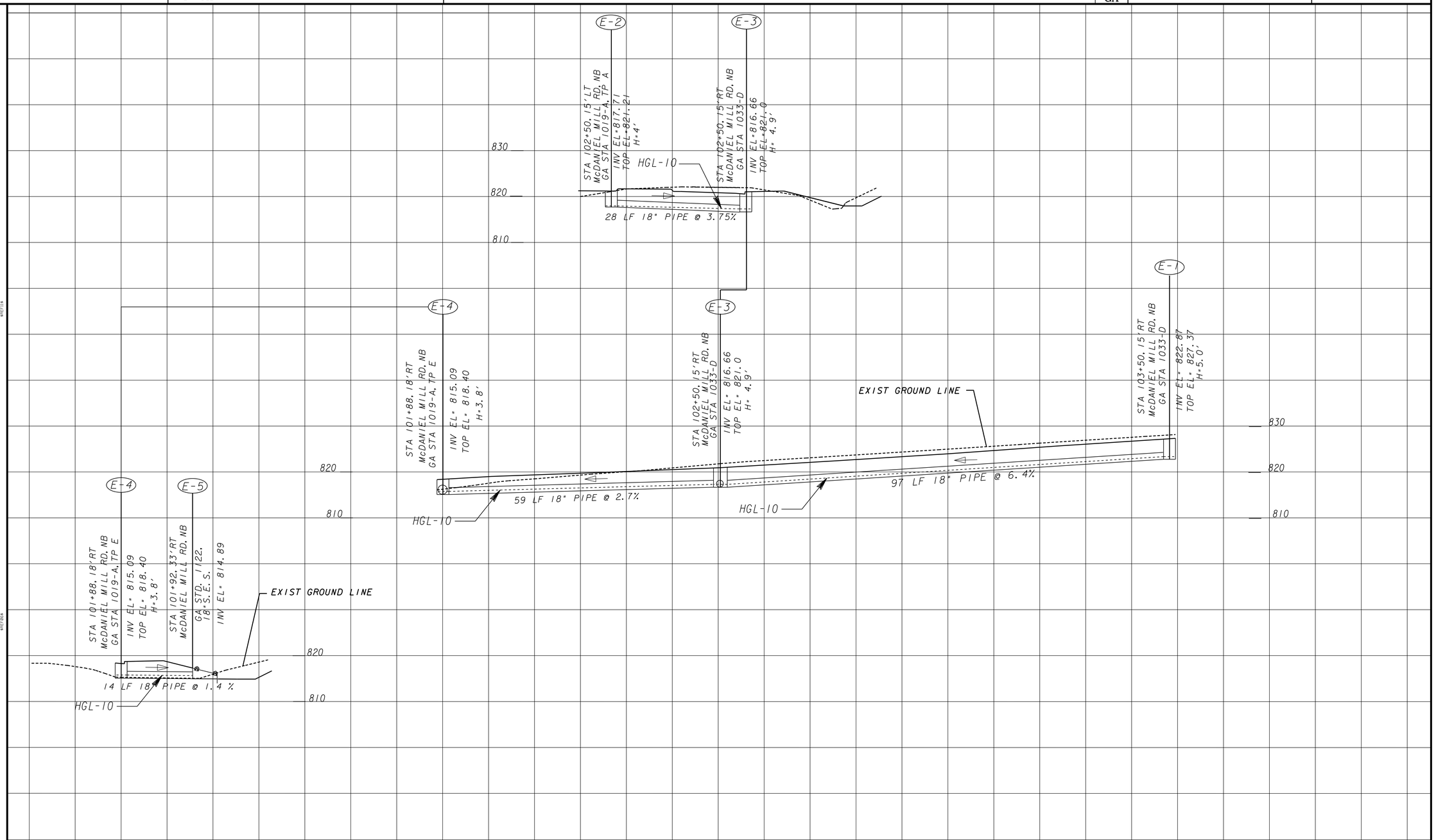
DRAWING No. 22-0004

...\Dgn\0006932DP01.dgn 4/13/2018 2:53:10 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3//2007 SUXSEW

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZONTAL & VERTICAL:

SCALE IN FEET

0 10 20 40

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILES

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

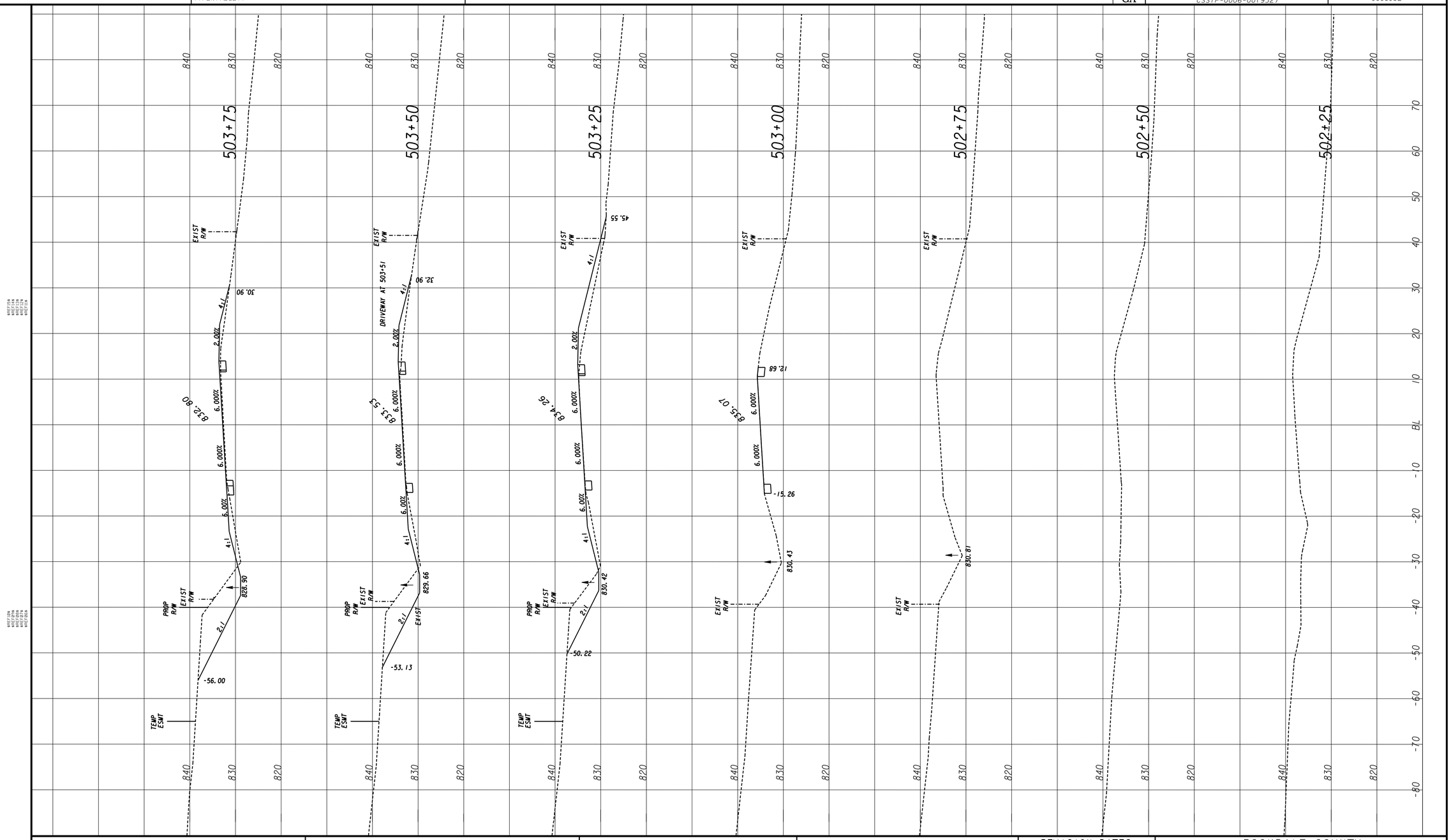
DRAWING No. 22-0005

...\Dgn\0006932DP01.dgn 4/13/2018 2:53:33 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
23-0001

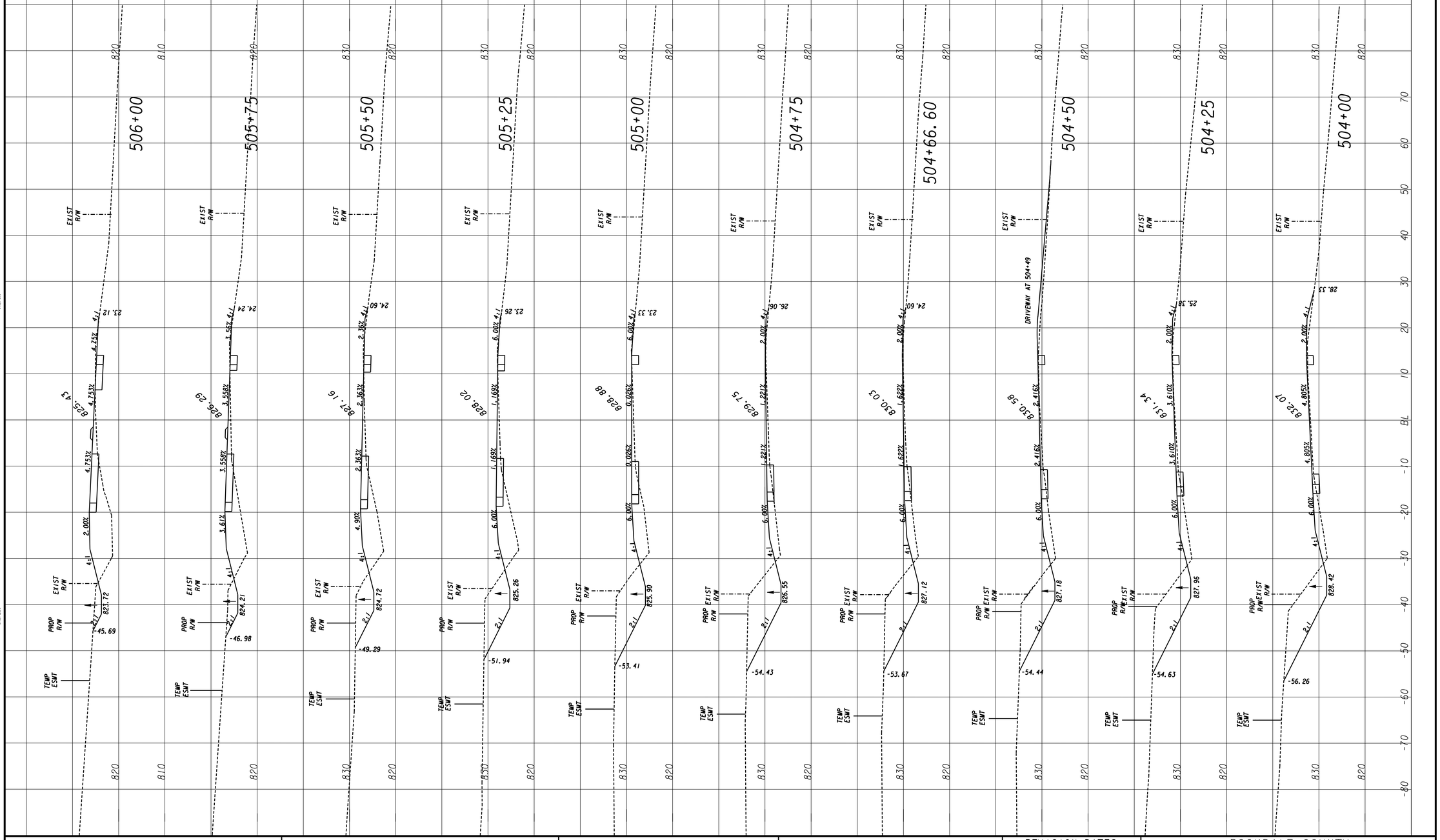
3/1/2007 SUXEN

...\Dgn\0006932XS01A.DGN 1/30/2019 2:27:52 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUYEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

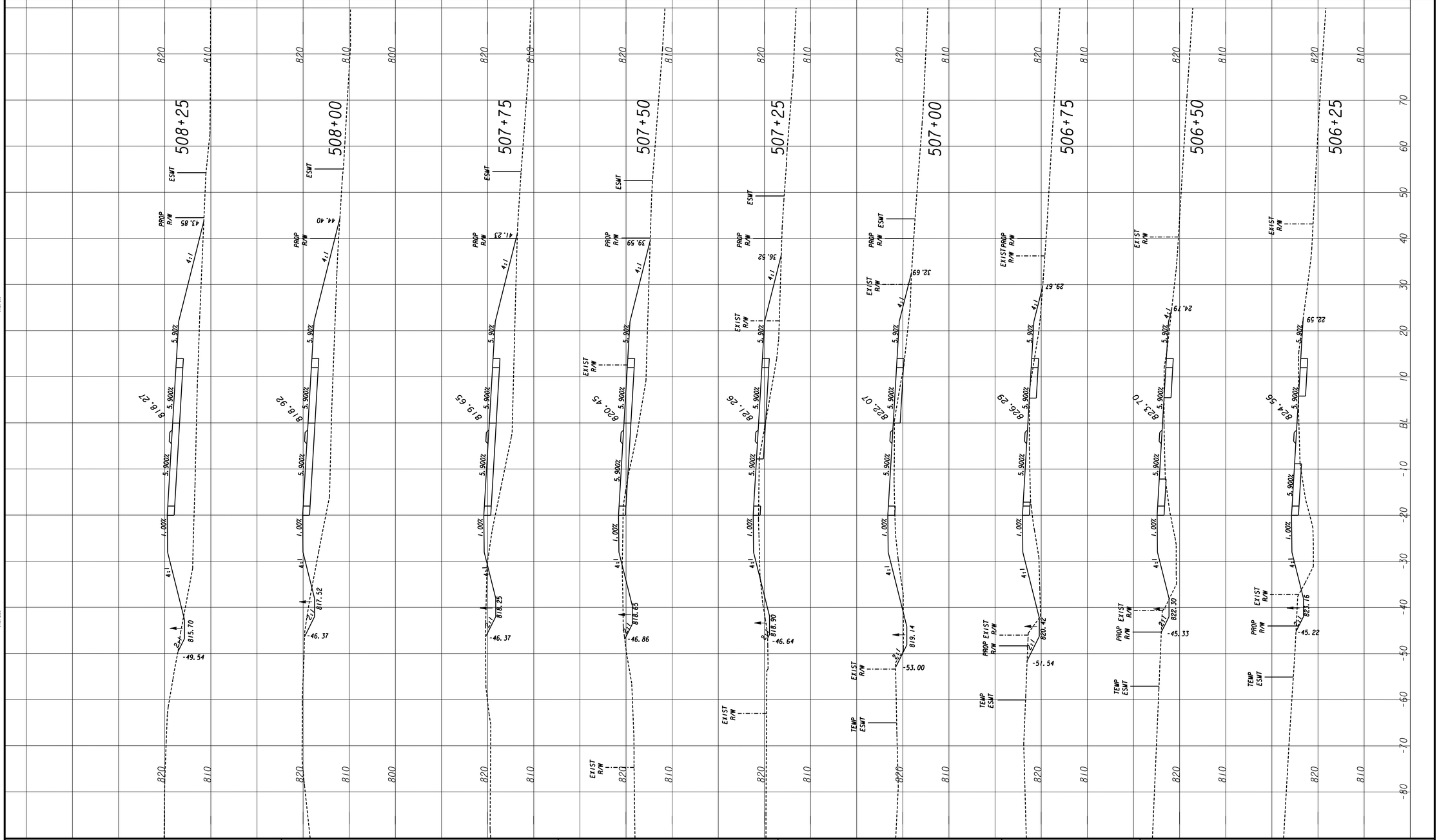
DRAWING No. 23-0002

...\Dgn\0006932XS01A.DGN 1/30/2019 2:28:17 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932	0006932



3/1/2007 SUXEN

__\Dgn\0069323X501A.DGN 1/30/2019 2:28:46 PM

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

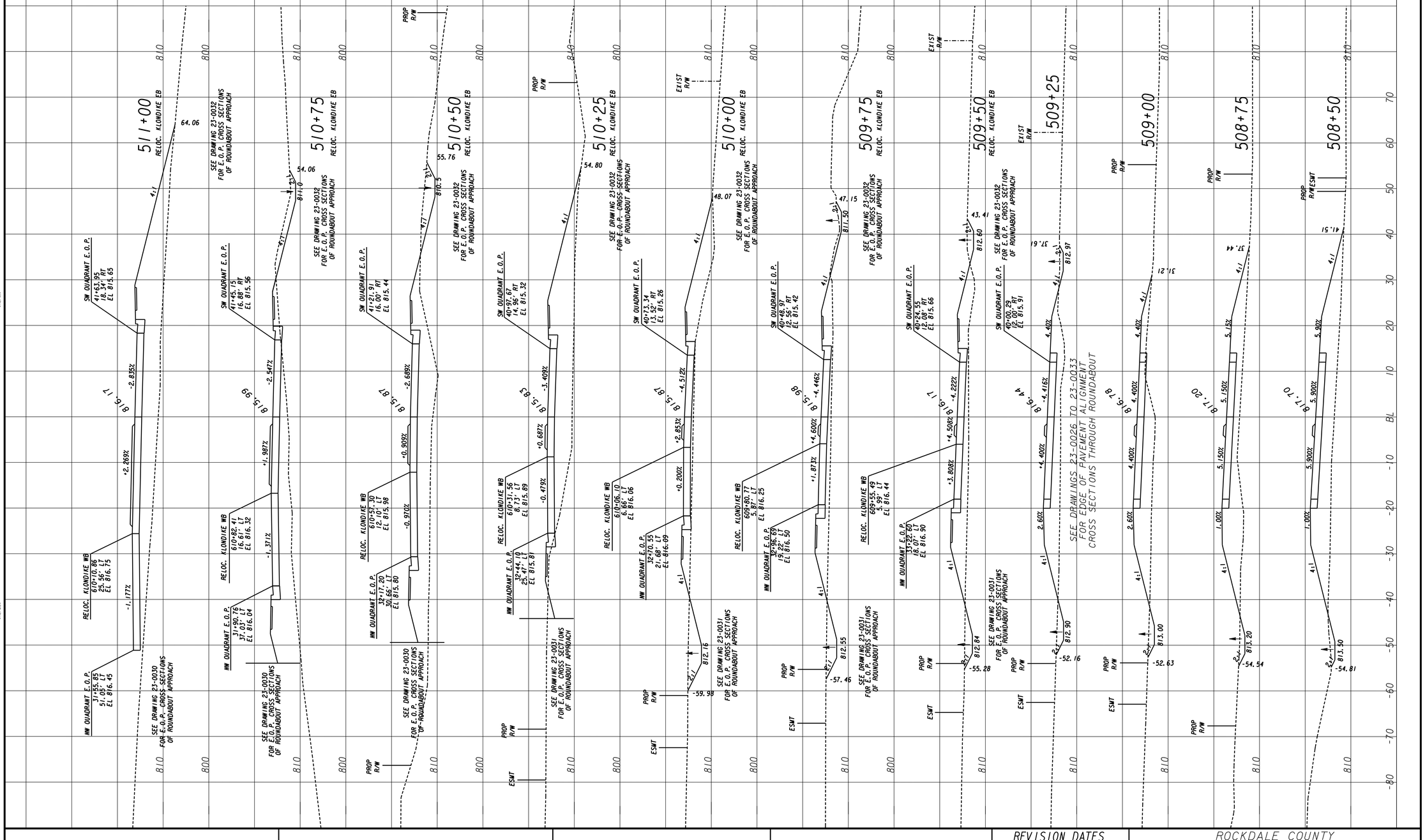
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0003

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



$REF1$
$REF2$
$REF3$
$REF4$
$REF5$
$REF6$
$REF7$
$REF8$

3/1/2007 SUXEN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0004

...\dgn\0006932X501A.DGN 4/13/2018 3:15:10 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0005

...\Dgn\0006932XS01A.DGN 5/8/2018 8:46:53 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

5|5+75

ESMT

PROP R/W 45.84

826.43

5.90% 4:1

-80.13 -79.24

6.00% 3:1

826.47

-80.13

5|5+50

ESMT

PROP R/W 45.97

827.74

5.90% 4:1

-80.31 -80.95

6.00% 3:1

824.79

-80.31

5|5+25

ESMT

PROP R/W 45.88

825.99

5.60% 4:1

-82.74 -82.05

6.00% 3:1

823.16

-82.74

5|5+00

ESMT

PROP R/W 46.87

821.58

4.850% 4:1

-71.98 -80.57

6.00% 3:1

821.62

-71.98

5|4+75

ESMT

PROP R/W 47.55

821.80

4.400% 4:1

-71.86 -82.69

6.00% 3:1

820.03

-71.86

5|4+50

RELOC. KLONDIKE EB

ESMT

PROP R/W 48.17

820.11

4.400% 4:1

-72.79 -82.20

6.00% 3:1

818.34

-72.79

RELOC. KLONDIKE WB

6|4+57.64

5.38' LT

EL 821.94

5|4+25

RELOC. KLONDIKE EB

ESMT

PROP R/W 47.35

819.3

4.269% 4:1

-69.6 -82.58

SE QUADRANT E.O.P.

12+86.45

12.18' RT

EL 821.04

NE QUADRANT E.O.P.

20+10.34

11.89' LT

EL 819.77

SEE DRAWING 23-0028

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

817.93

-69.6

RELOC. KLONDIKE WB

6|4+35.88

14.33' LT

EL 820.28

-4.229% 3:1

817.14

-66.9

5|4+00

RELOC. KLONDIKE EB

ESMT

PROP R/W 45.9

817.9

3.253% 4:1

-66.9 -81.67

SEE DRAWINGS 23-0026 & 23-0027

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

SE QUADRANT E.O.P.

12+61.37

14.14' RT

EL 819.33

NE QUADRANT E.O.P.

20+35.39

19.39' LT

EL 818.30

RELOC. KLONDIKE WB

6|4+07.84

6.84' LT

EL 818.82

-0.732% -4.143% 3:1

815.52

-66.9

SEE DRAWING 23-0028

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

SEE DRAWING 23-0026

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

5|3+75

RELOC. KLONDIKE EB

ESMT

PROP R/W 47.75

816.84

2.548% 4:1

-78.1 -81.19

SE QUADRANT E.O.P.

12+35.29

16.09' RT

EL 818.00

NE QUADRANT E.O.P.

20+60.60

22.60' LT

EL 817.28

RELOC. KLONDIKE WB

6|3+82.74

8.83' LT

EL 817.71

-2.004% -3.598% 3:1

815.52

-78.1

SL 2

20+82.66

818.93

SEE DRAWING 23-0028

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

SEE DRAWING 23-0026

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

5|3+50

RELOC. KLONDIKE EB

ESMT

PROP R/W 51.54

815.55

2.328% 4:1

-91.0 -81.71

SE QUADRANT E.O.P.

12+11.22

18.61' RT

EL 817.19

NE QUADRANT E.O.P.

20+86.06

27.58' LT

EL 816.70

RELOC. KLONDIKE WB

6|3+57.51

12.38' LT

EL 817.13

-2.908% -2.829% 3:1

813.89

-91.0

SL 2

20+57.66

814.63

SEE DRAWING 23-0028

FOR E.O.P. CROSS SECTIONS

OF ROUNDABOUT APPROACH

SEE DRAWINGS 23-0026 & 23-0033

FOR EDGE OF PAVEMENT

CROSS SECTIONS THROUGH ROUNDABOUT BL

REF

REF

REF

REF

REF

REF

3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/MC DANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

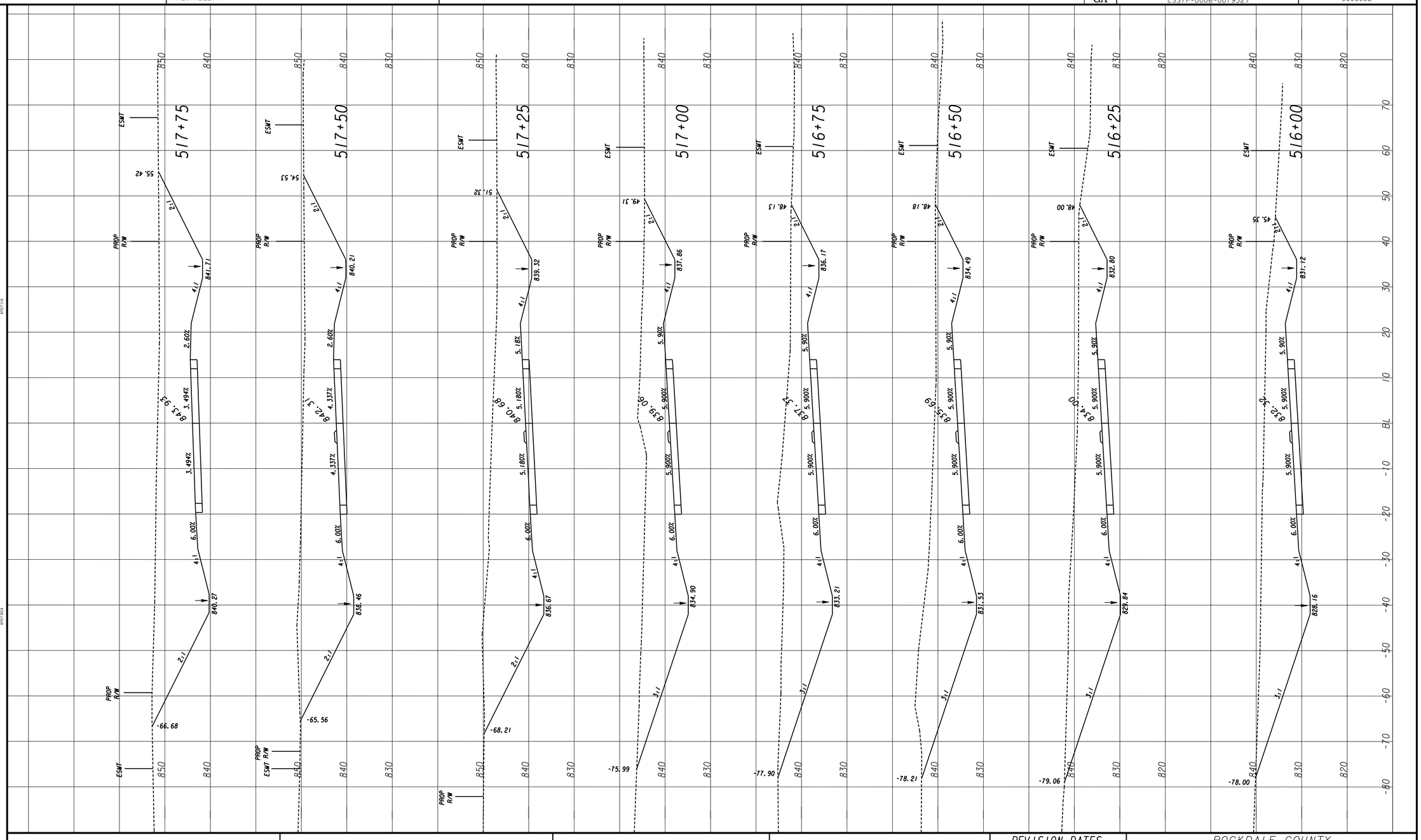
DRAWING No. 23-0006

...\dgn\0006932X501A.DGN 4/13/2018 3:15:42 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



$REF1$
$REF2$
$REF3$
$REF4$
$REF5$
$REF6$
$REF7$
$REF8$

3/11/2007 SUYEN

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/MC DANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

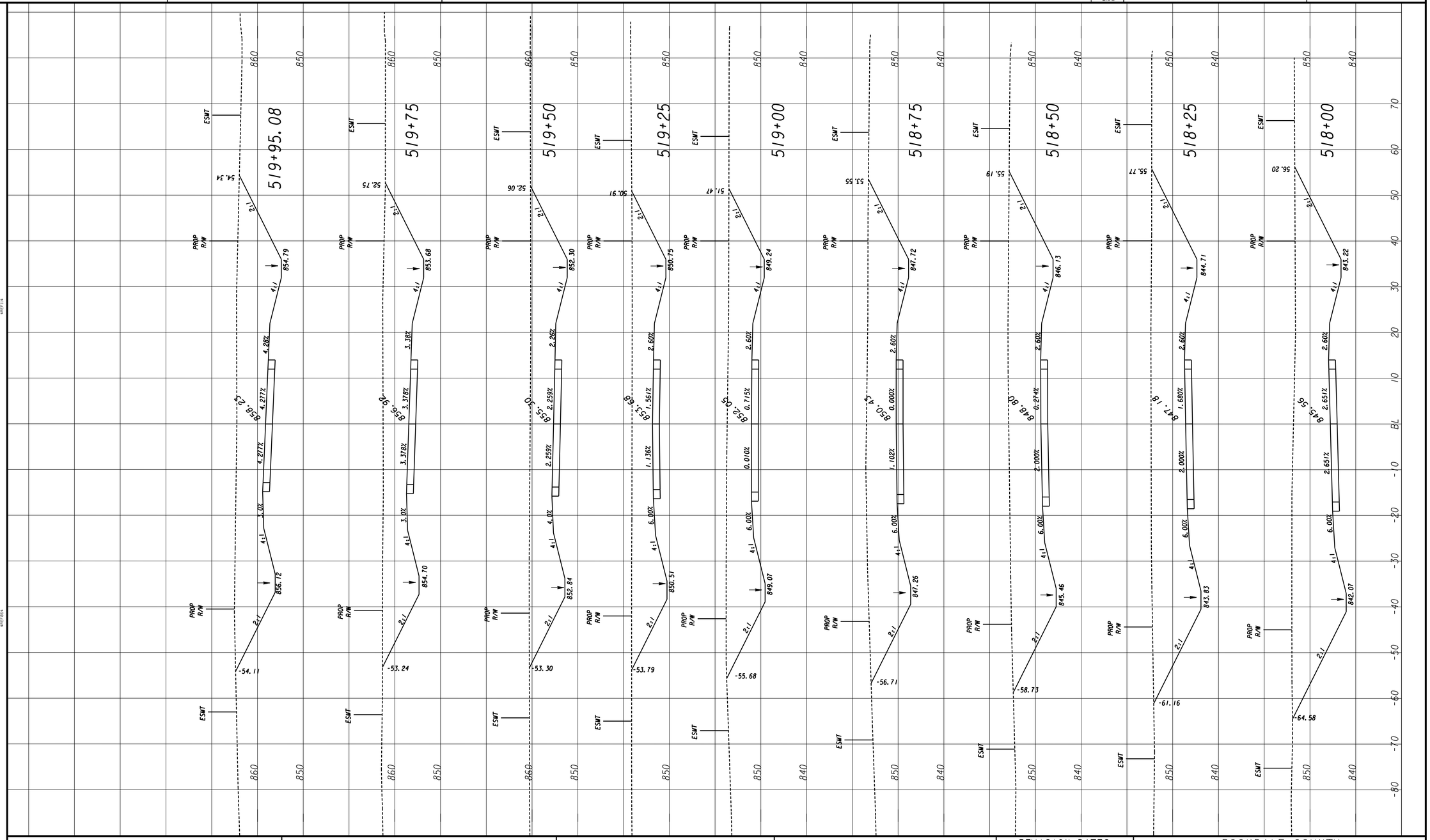
DRAWING No. 23-0007

I:\gra\0006932\X301A.DGN 4/13/2018 3:15:57 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/MC DANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0008

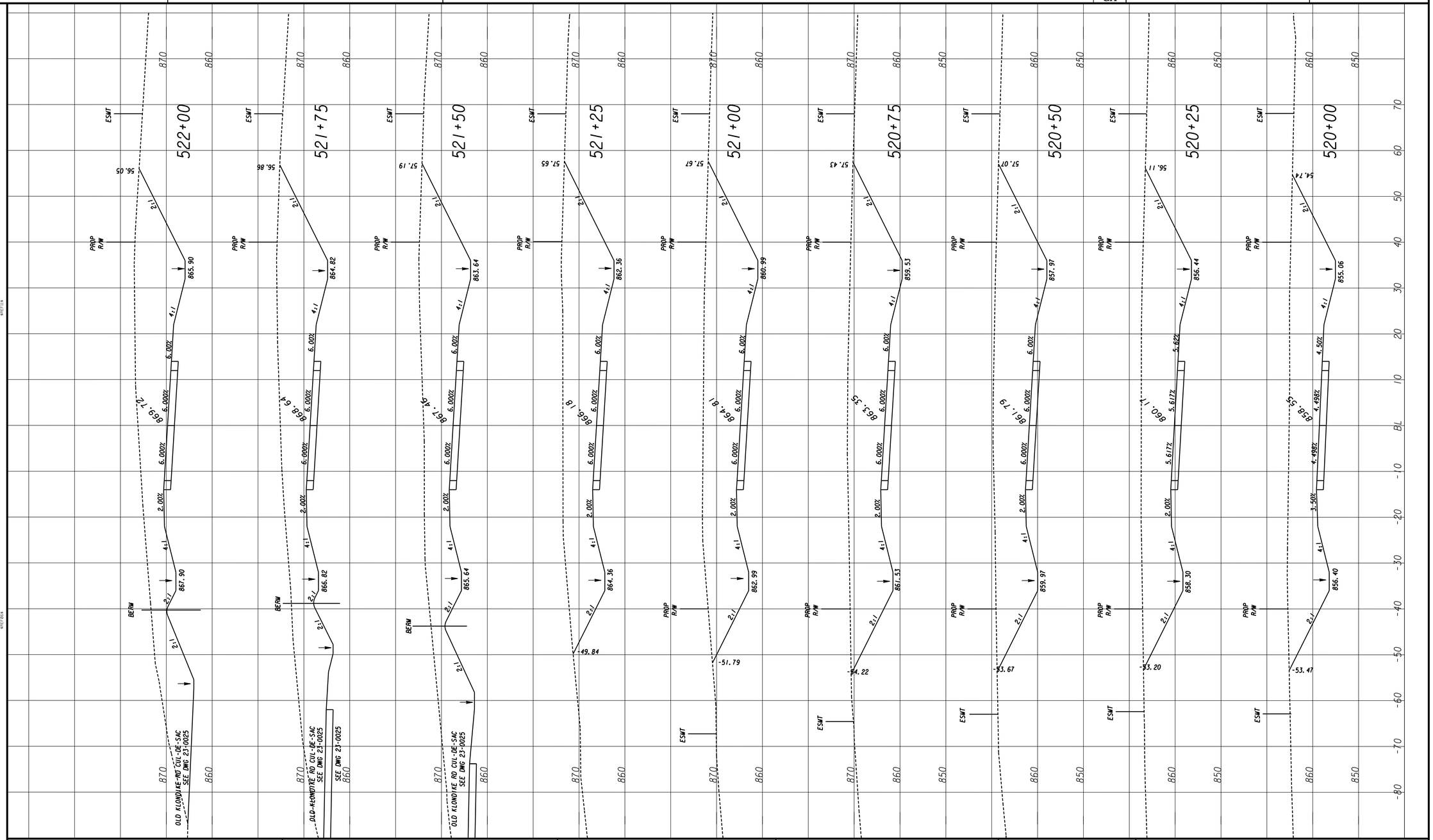
3/11/2007 SUXEN

Dgn\0069323X501A.DGN 4/13/2018 3:16:13 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
23-0009

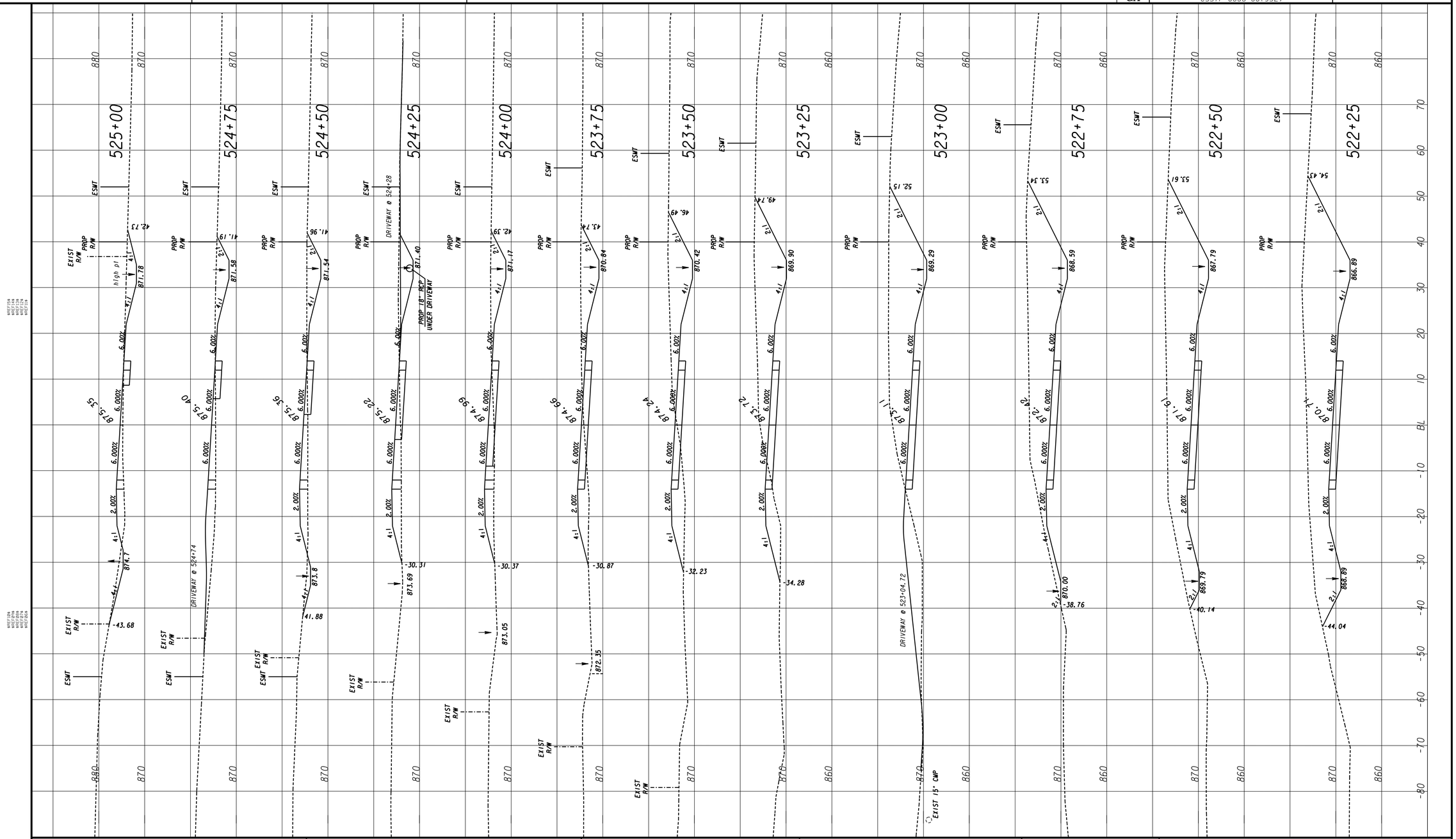
3/1/2007 SUXEN

...\Dgn\0006932XS018.DGN 4/13/2018 3:20:34 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



REVISION DATES		

Engineering
Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0010

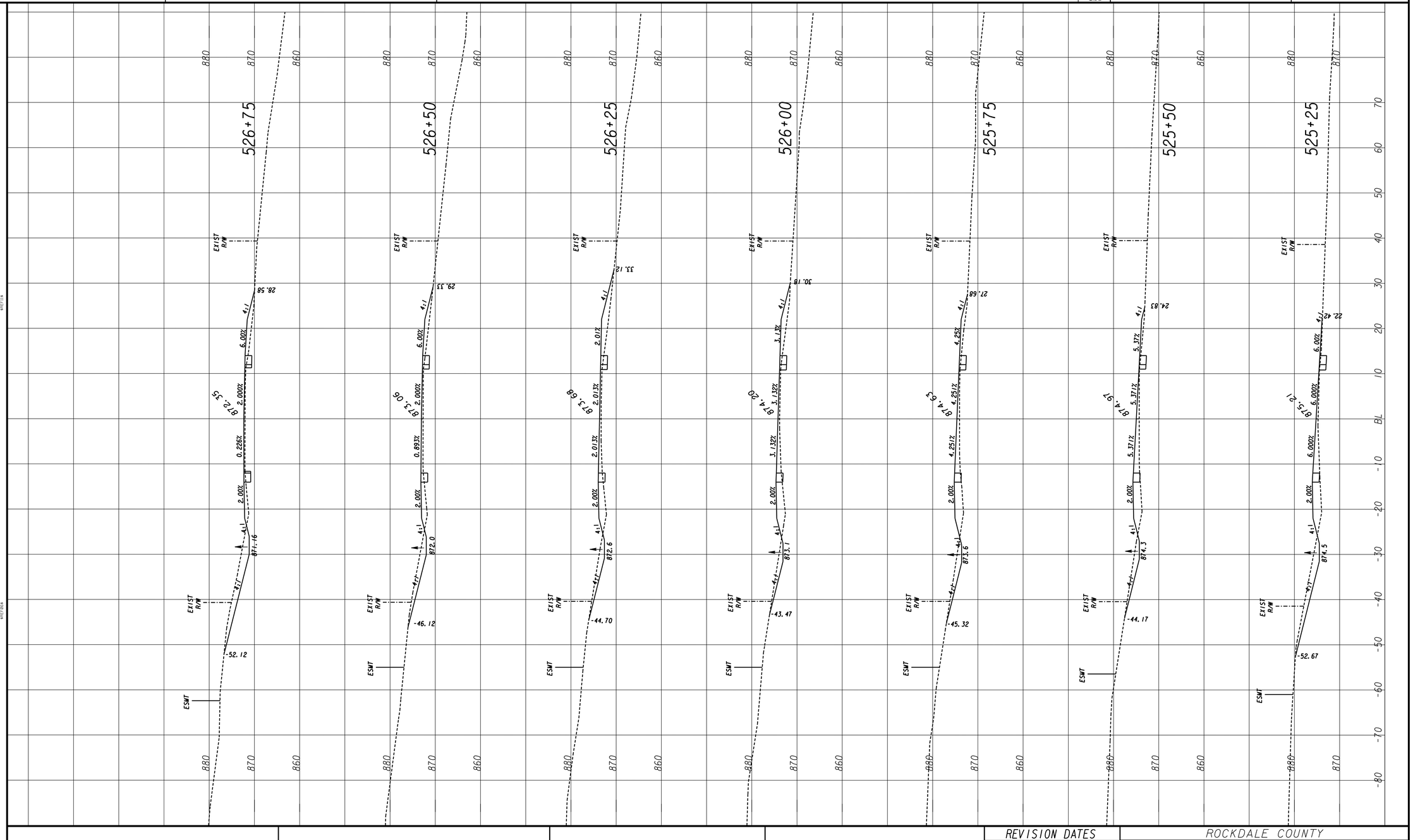
3/1/2007 SUXEN

...\Dgn\0006932XS018.DGN 4/13/2018 3:20:52 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

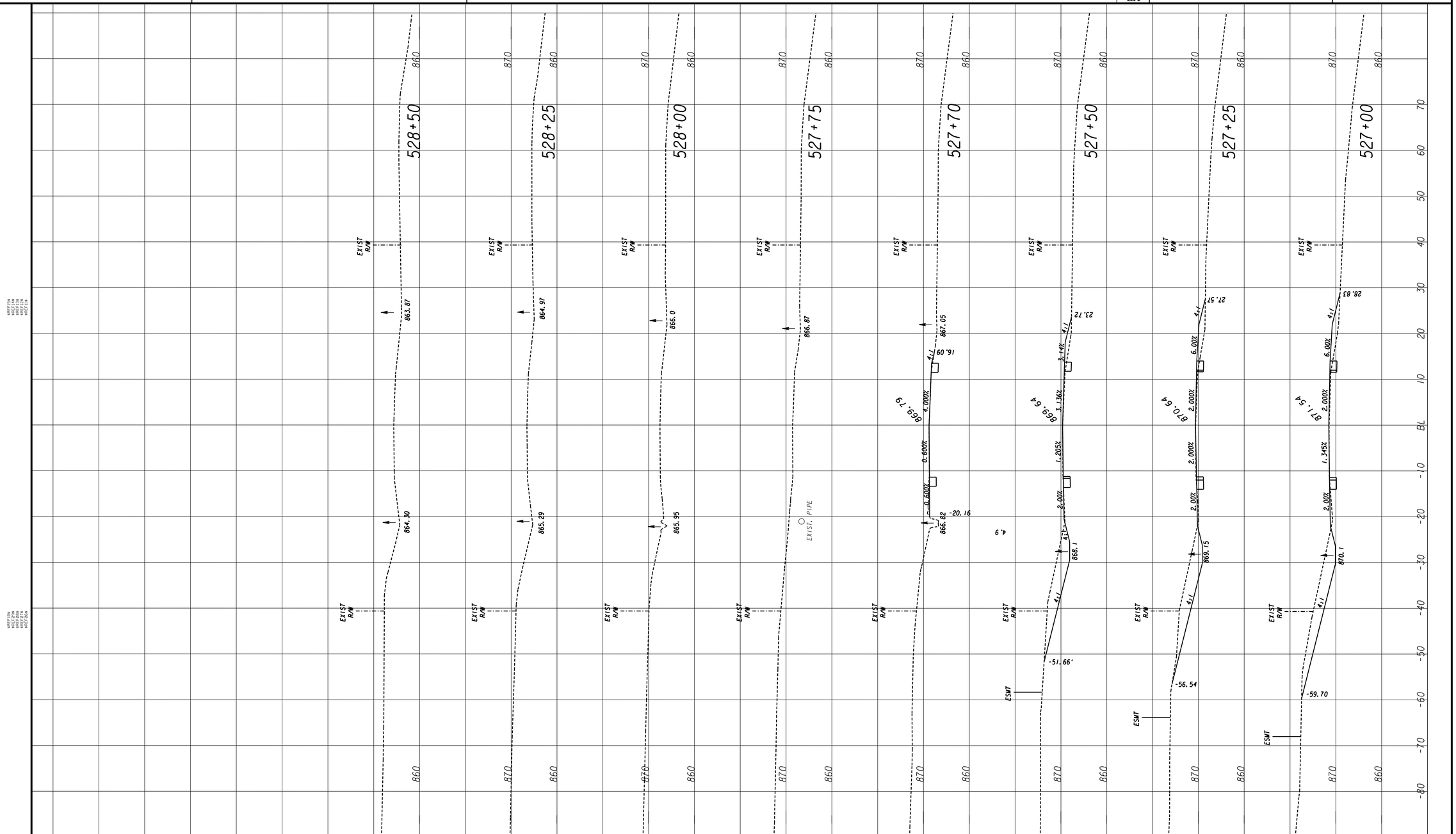
DRAWING No. 23-0011

...\Dgn\0006932X0018.DGN 4/13/2018 3:21:07 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
23-0012

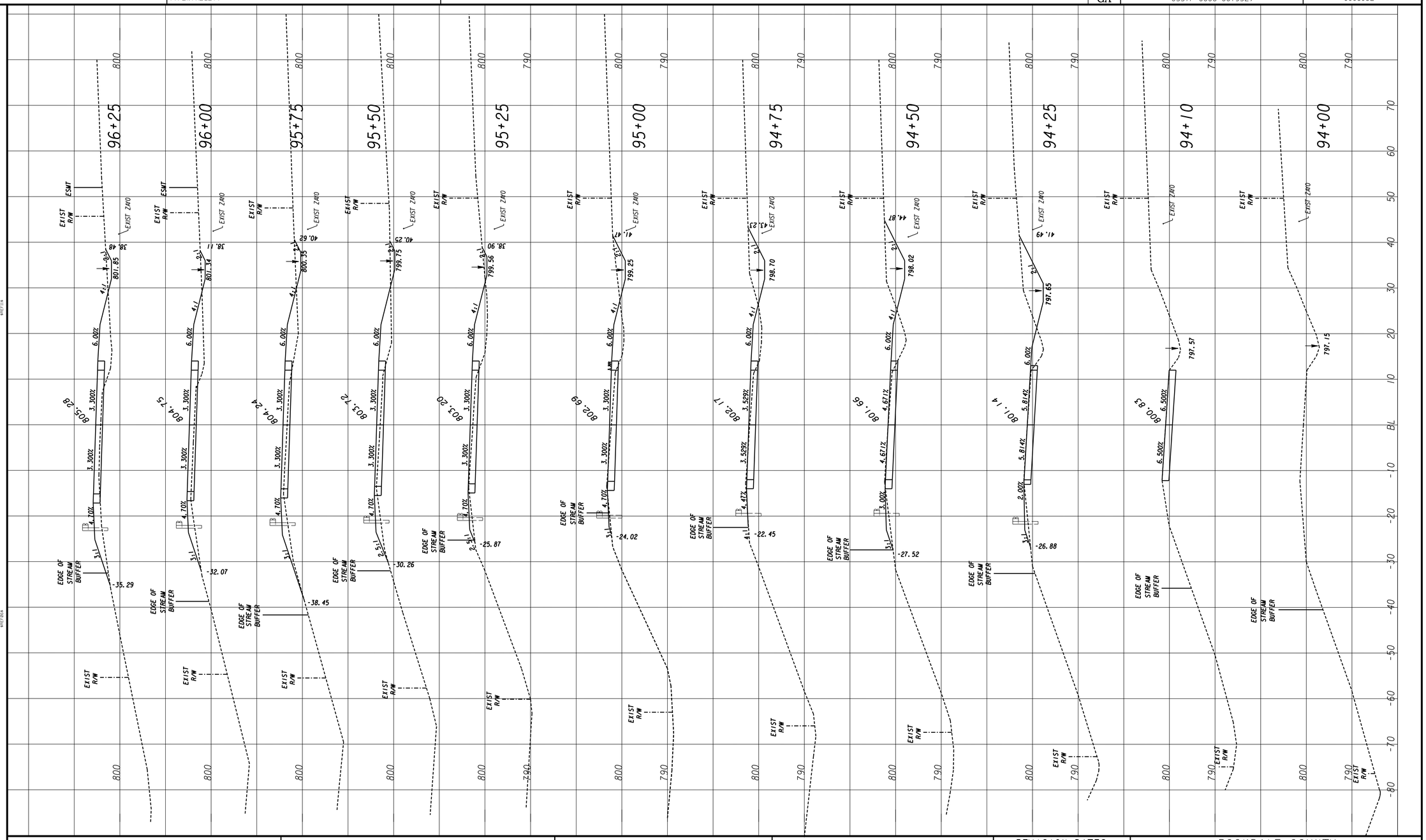
3/1/2007 SUXEN

...\Dgn\0006932XS018.DGN 4/13/2018 3:21:20 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:

SCALE IN FEET

0 10 20 40

REVISION DATES

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

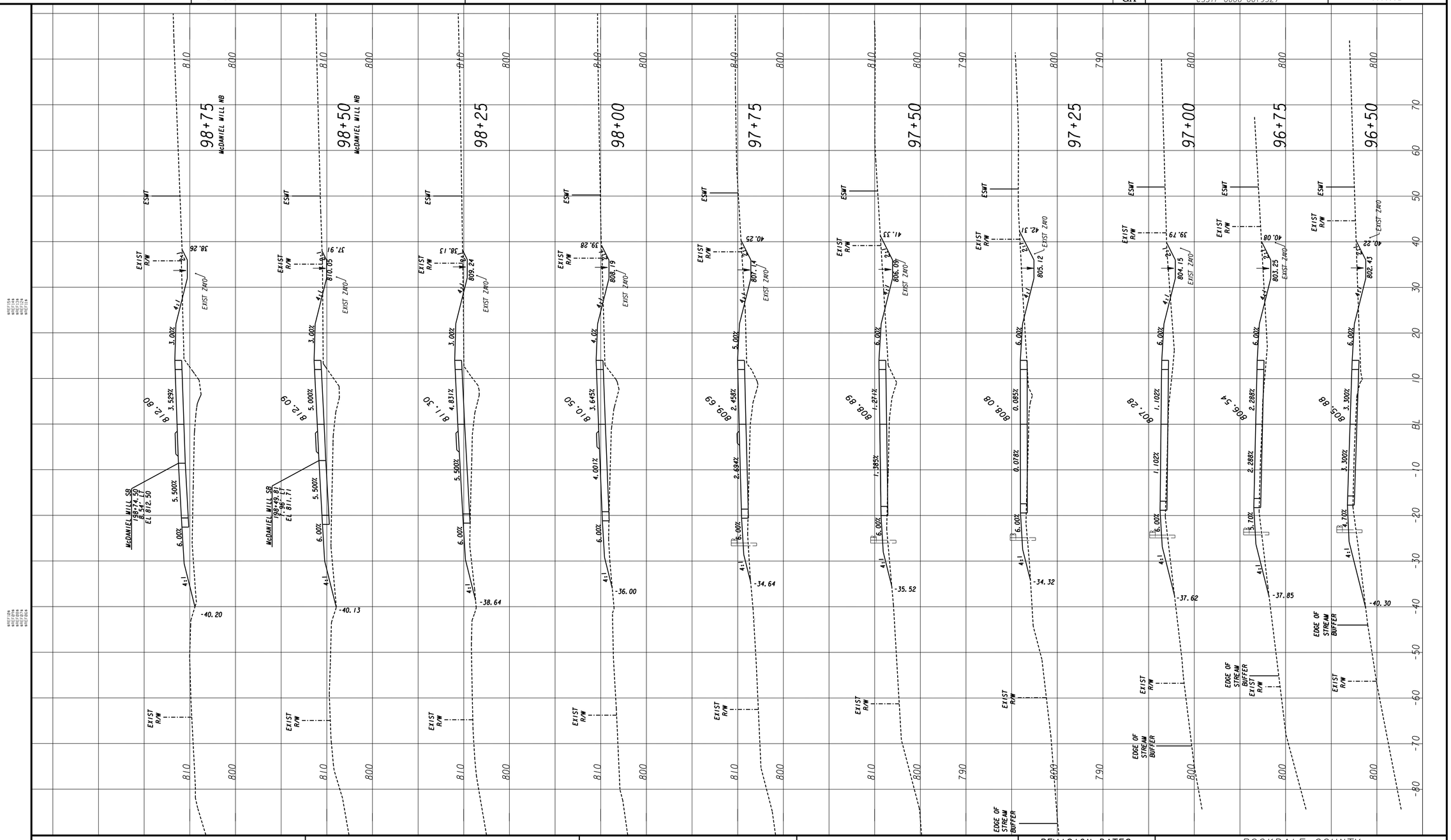
DRAWING No. 23-0013

...\Dgn\0006932XS02A.dgn 1/30/2019 2:12:44 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUYEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

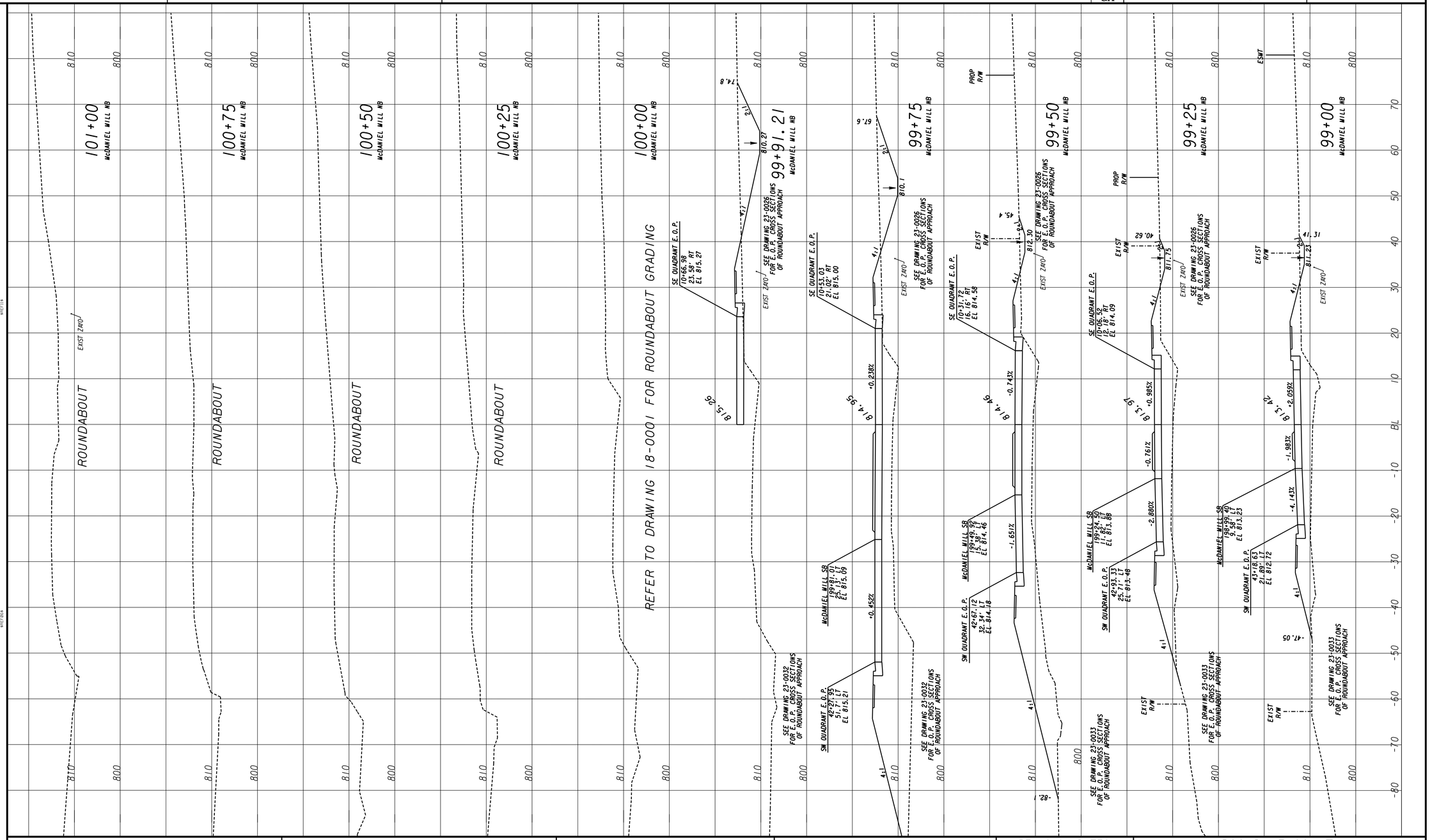
DRAWING No. 23-0014

...\Dgn\0693XSO2A.dgn 1/30/2013 2:13:08 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0015

3/1/2007 SUXEN

...\Dgn\0069323-0023A.dgn 1/30/2019 2:13:42 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932

3/1/2007 SUXENA

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

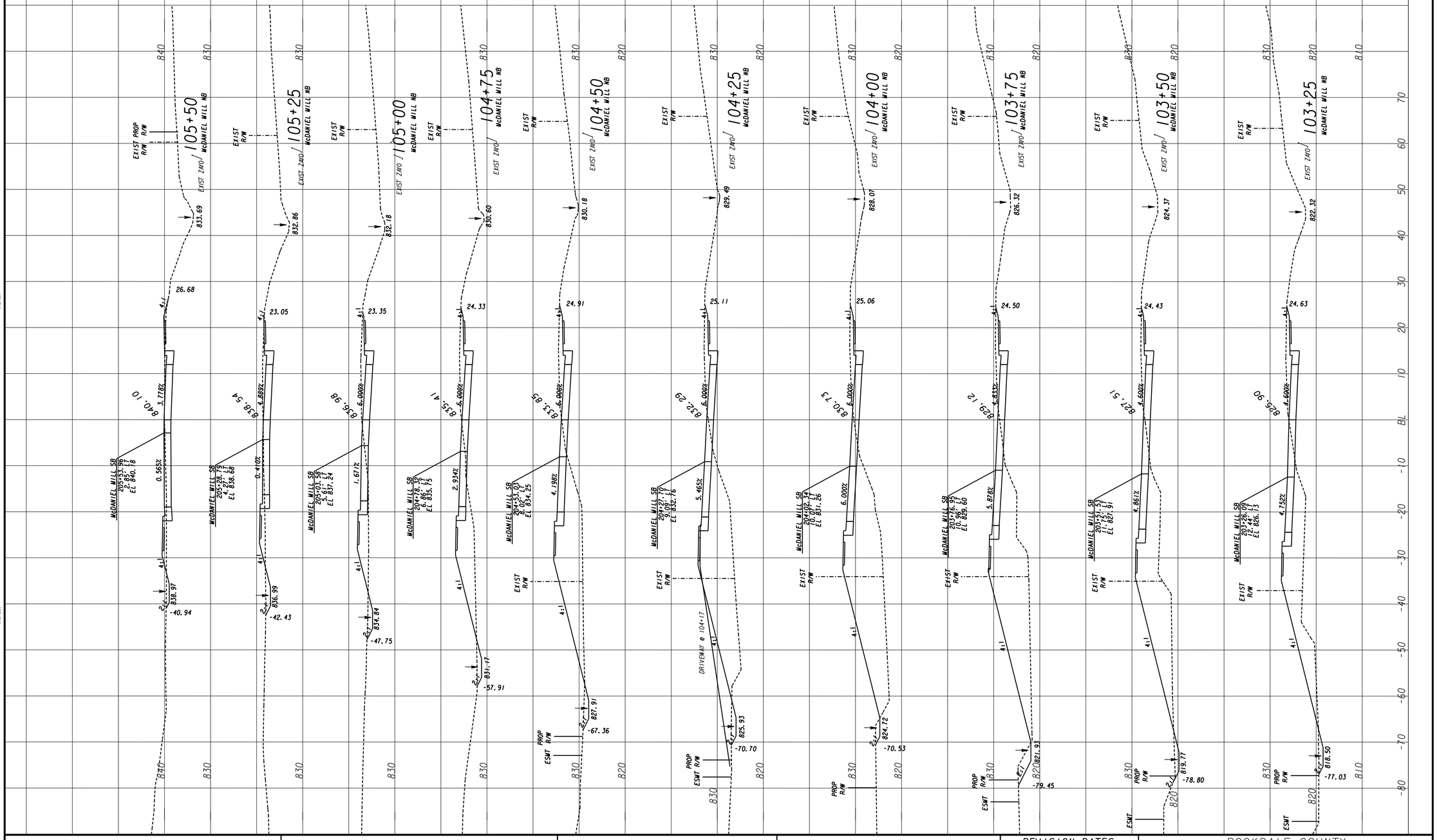
DRAWING No. 23-0016

...\Dgn\0006932X502A.dgn 1/30/2019 2:14:05 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0017

3/1/2007 SUXEN

...\Dgn\0006932XS02A.dgn 1/30/2019 2:14:29 PM

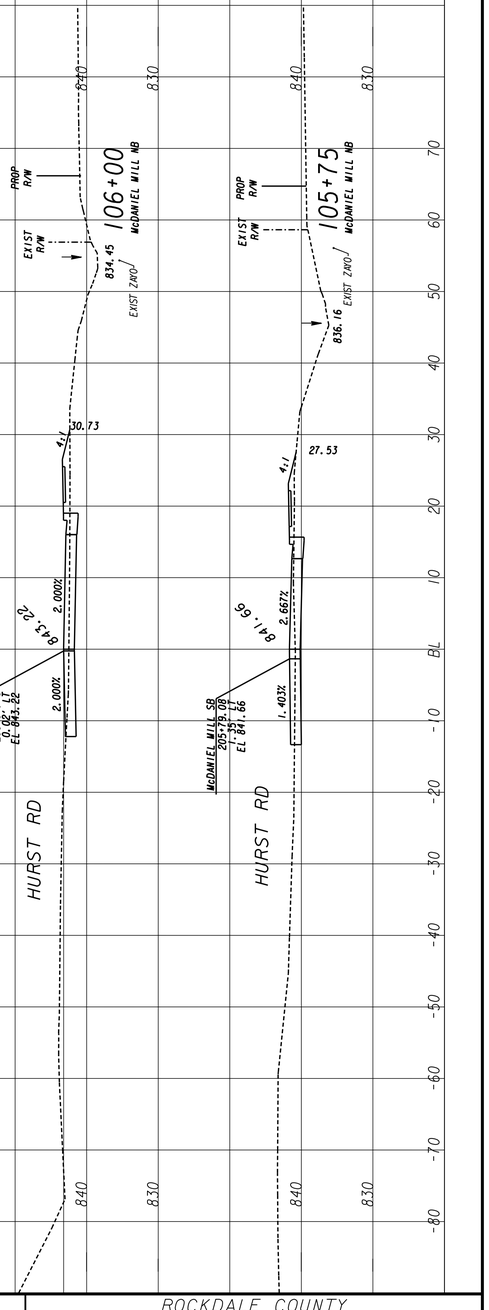
DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

$REF1$
$REF2$
$REF3$
$REF4$
$REF5$
$REF6$

SEE DRAWING 23-0019 FOR CONTINUATION OF CROSS SECTIONS FOR McDANIEL MILL RD



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0018

3/1/2007 SUXEN

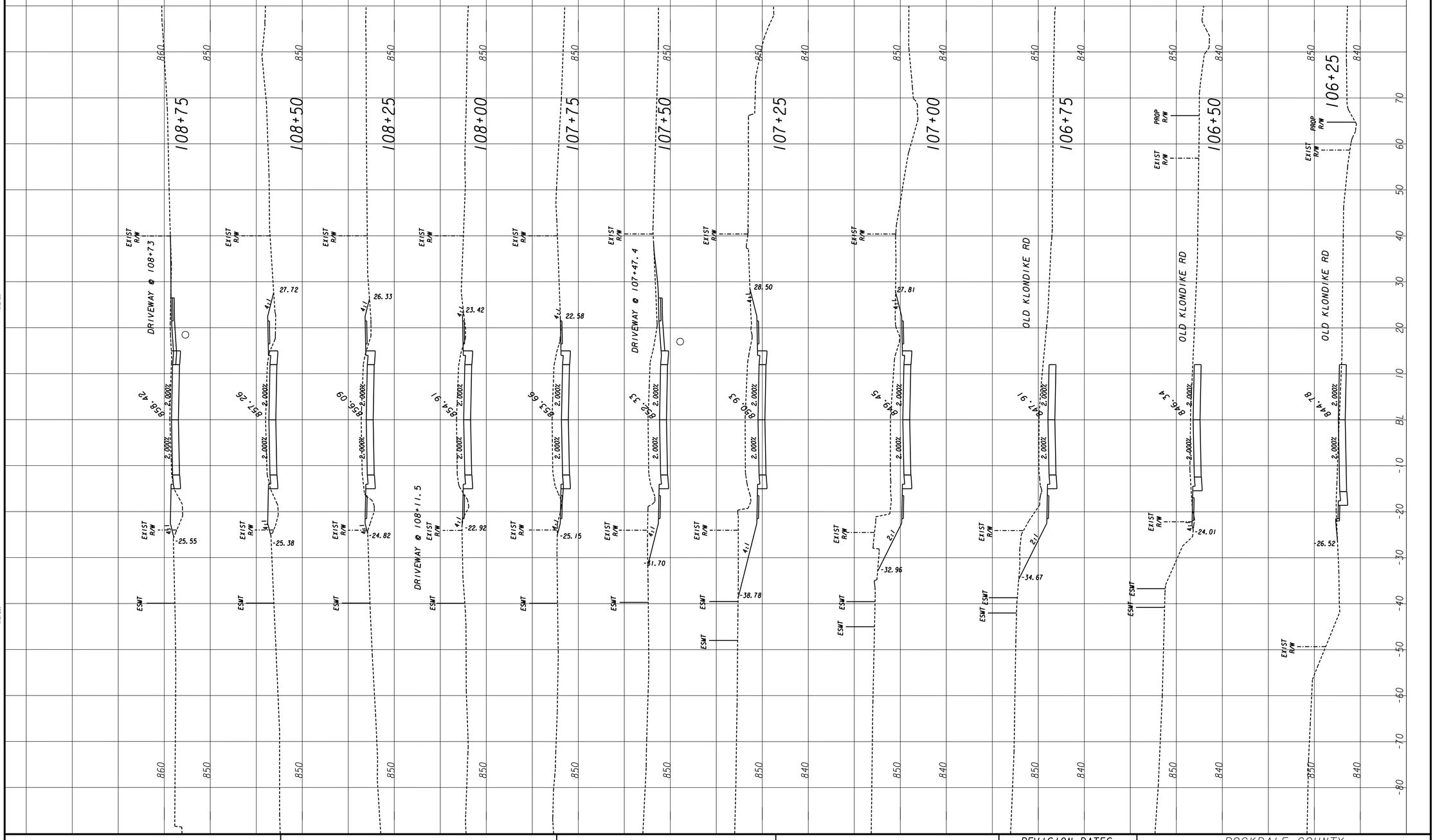
$REF1$
$REF2$
$REF3$
$REF4$
$REF5$
$REF6$

...\Dgn\0006932X502A.dgn 1/30/2019 2:14:59 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



3/11/2007 SUXEN

Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

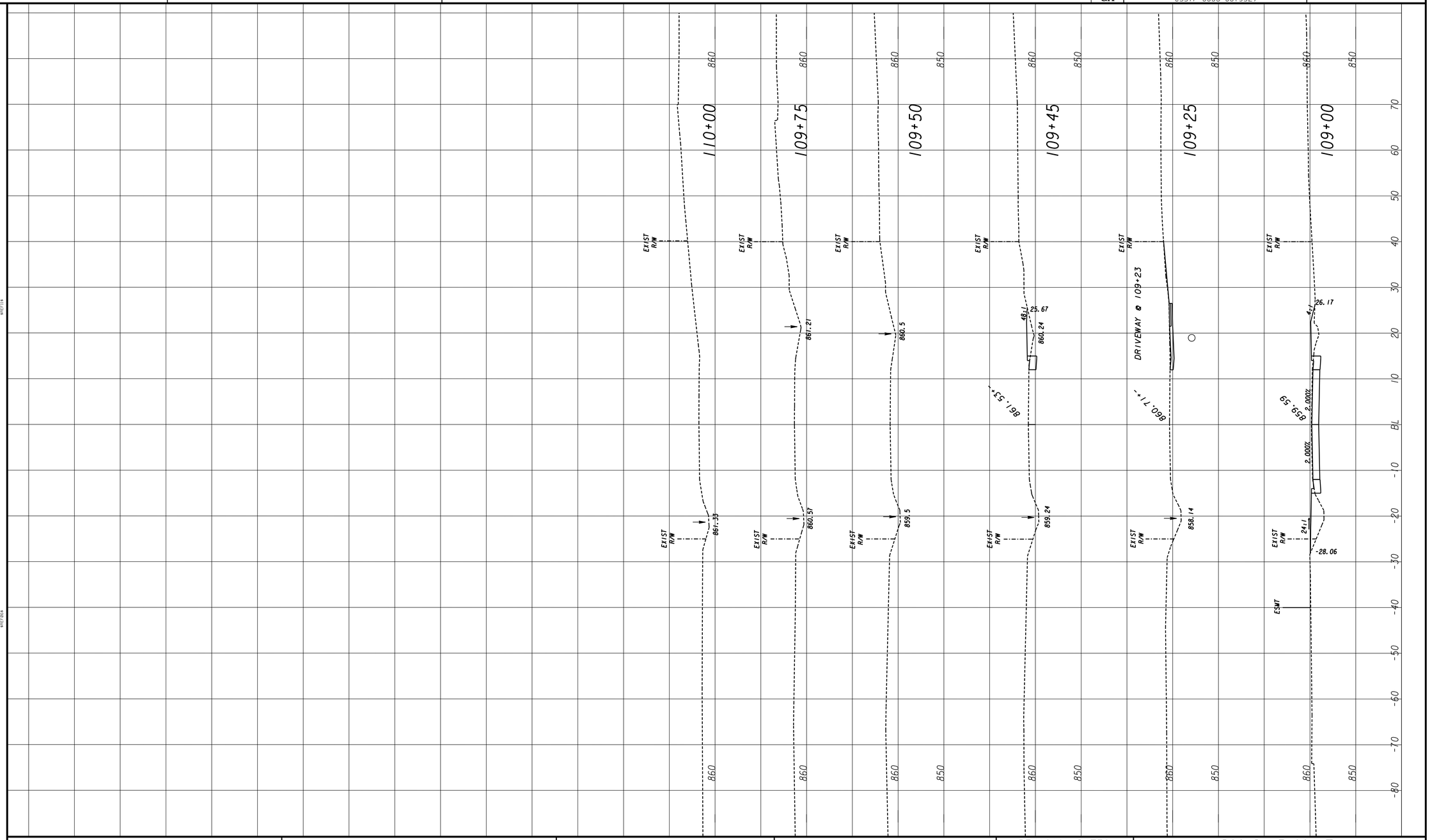
DRAWING No.
23-0019

...\Dgn\0006932X502B.DGN 8/8/2018 2:47:13 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
McDANIEL MILL RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0020

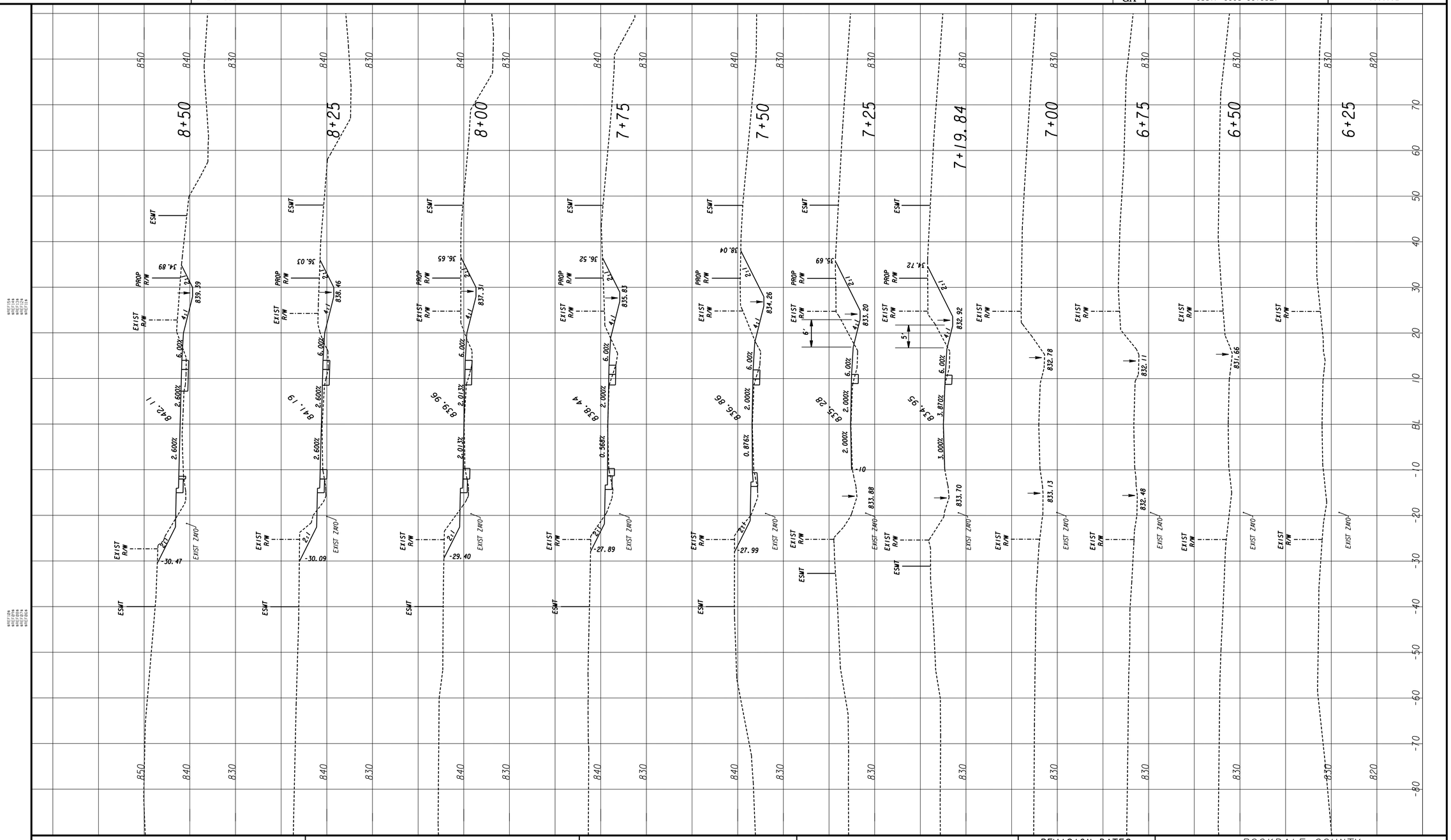
3/1/2007 SUXEN

...\Dgn\0006932XS028.DGN 8/8/2018 2:46:40 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001(932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
HURST RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0021

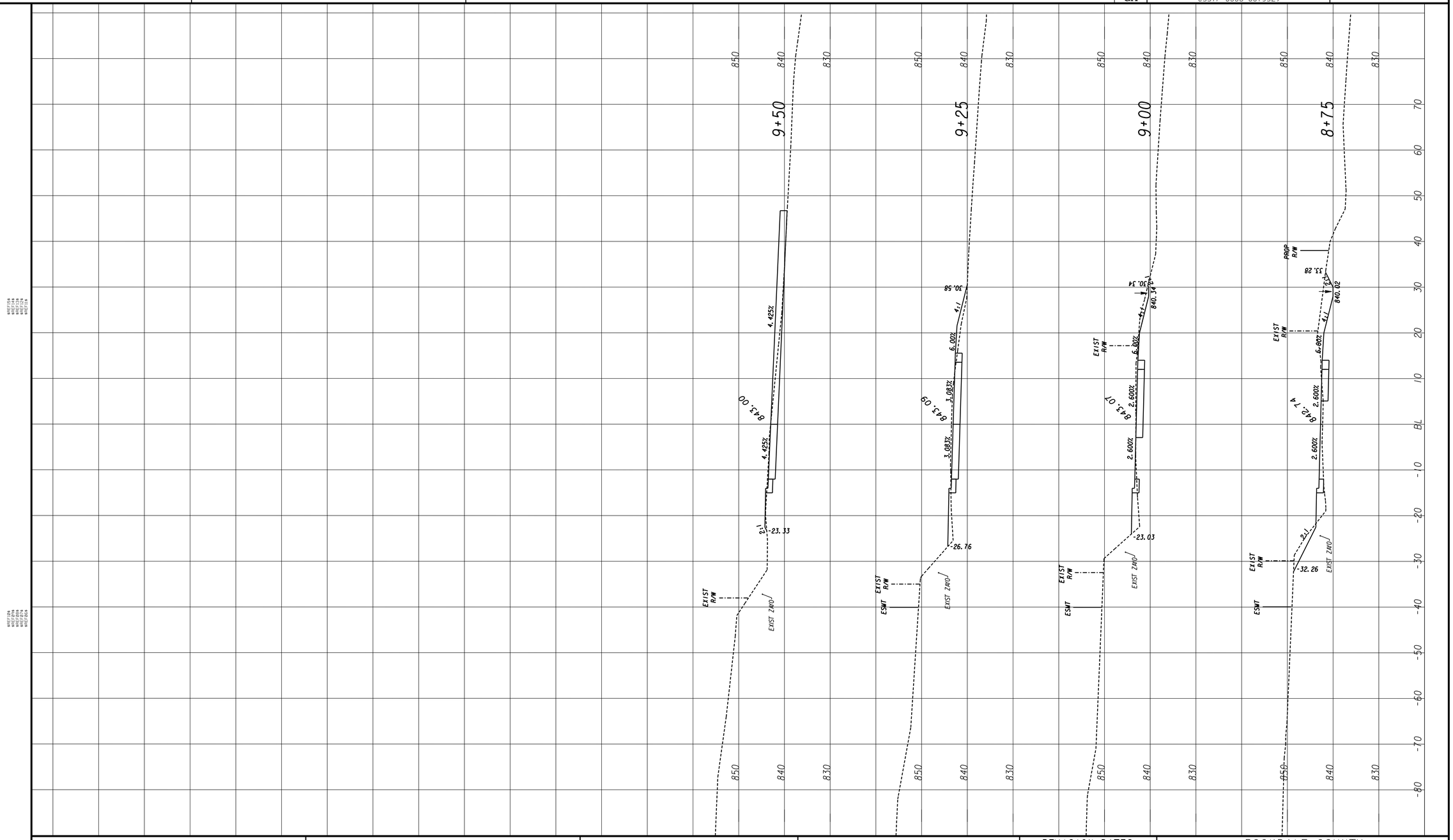
3/1/2007 SUYEN

...\Dgn\0693XS03.DGN 1/30/2019 2:01:46 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

QK4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
HURST RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

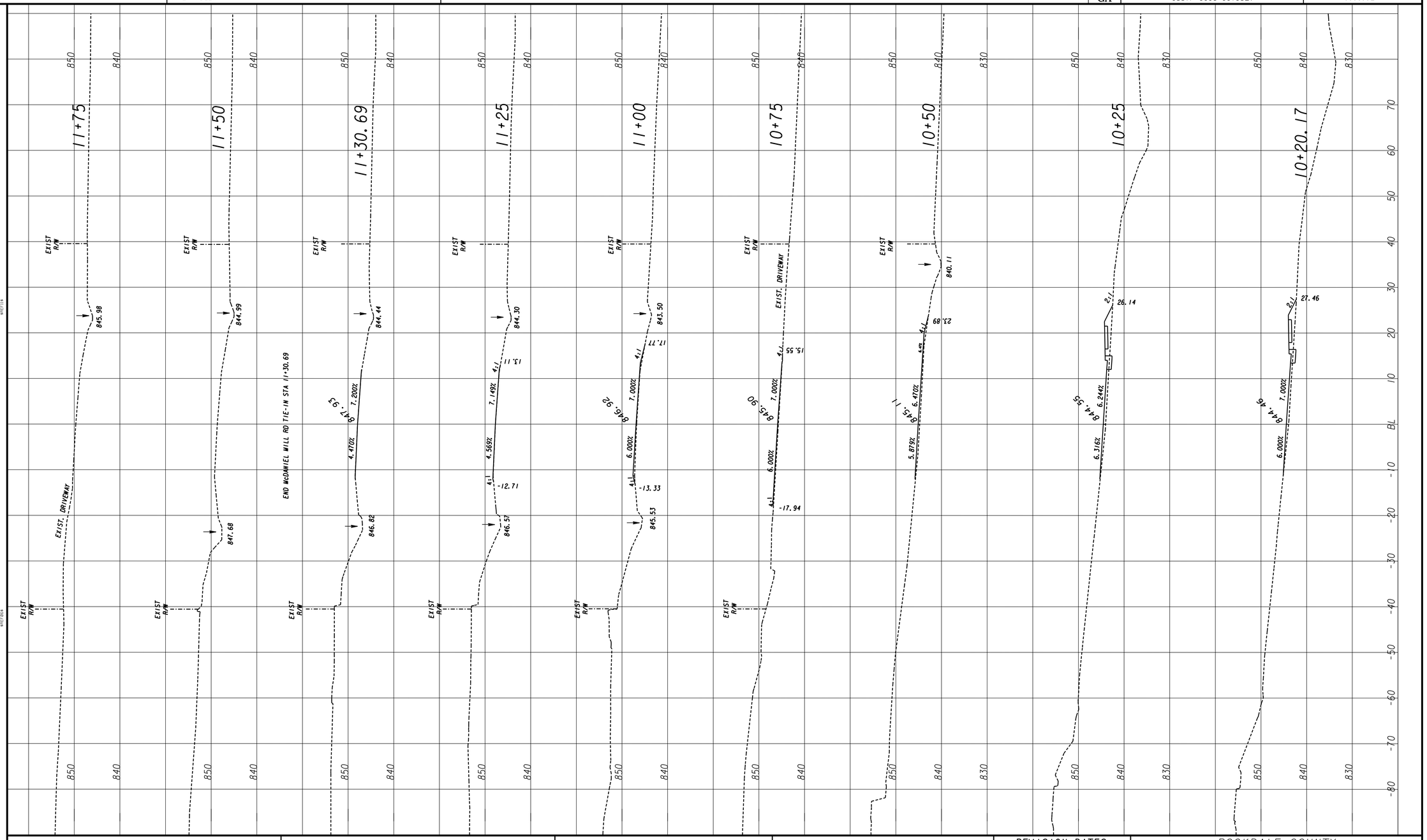
DRAWING No. 23-0022

...\Dgn\0693XS03.DGN 1/30/2019 2:00:59 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



	• Engineering • Planning 145 Technology Parkway NW Suite 210 Peachtree Corners, GA 30092 (404) 329-5900	HORIZ AND VERT: SCALE IN FEET 0 10 20 40

REVISION DATES		

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
OLD KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0023

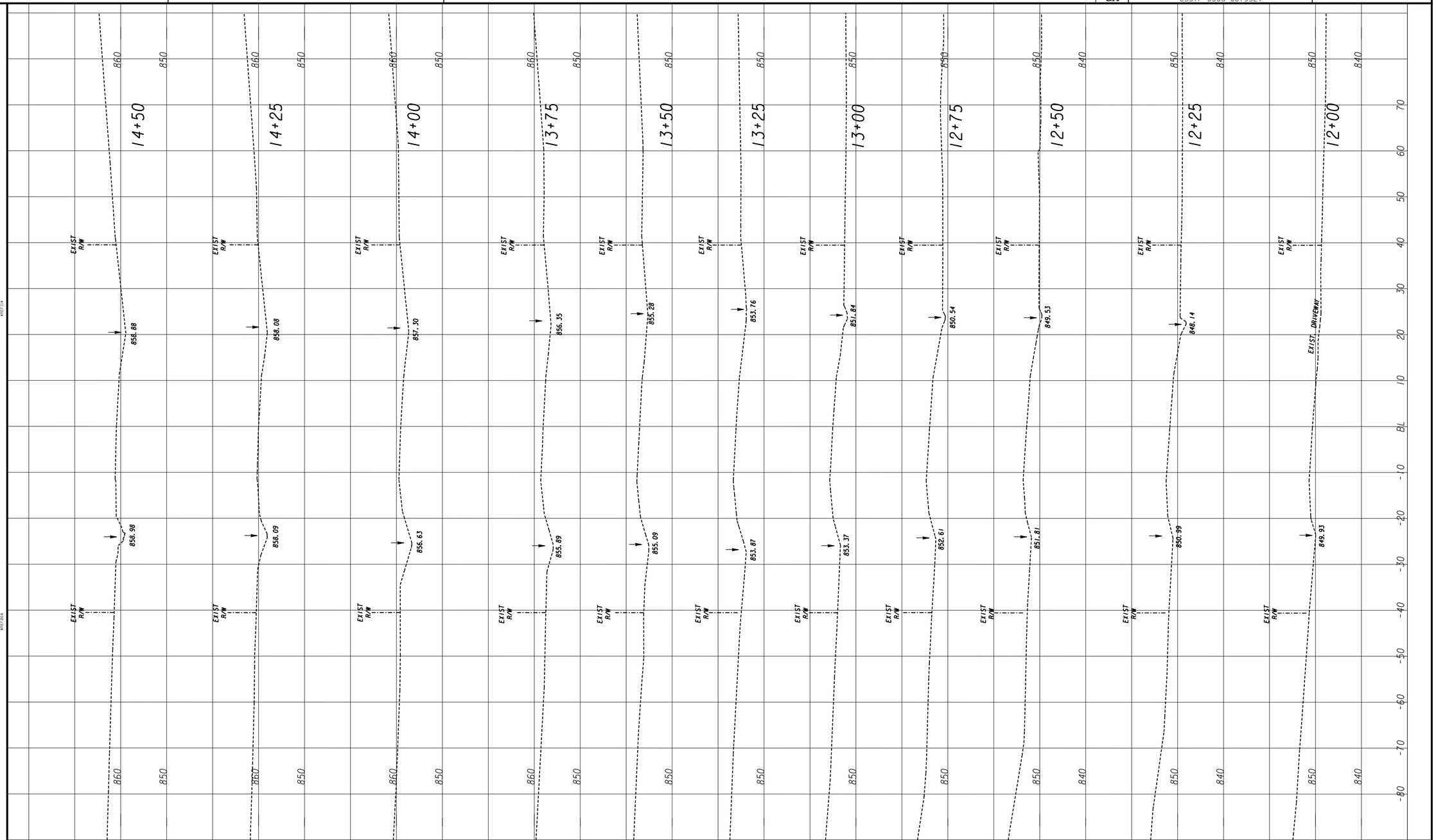
3/1/2007 SUXEN

...\Dgn\0093ZXS04.DGN 4/13/2018 3:34:48 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUYEN

Q K 4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
OLD KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

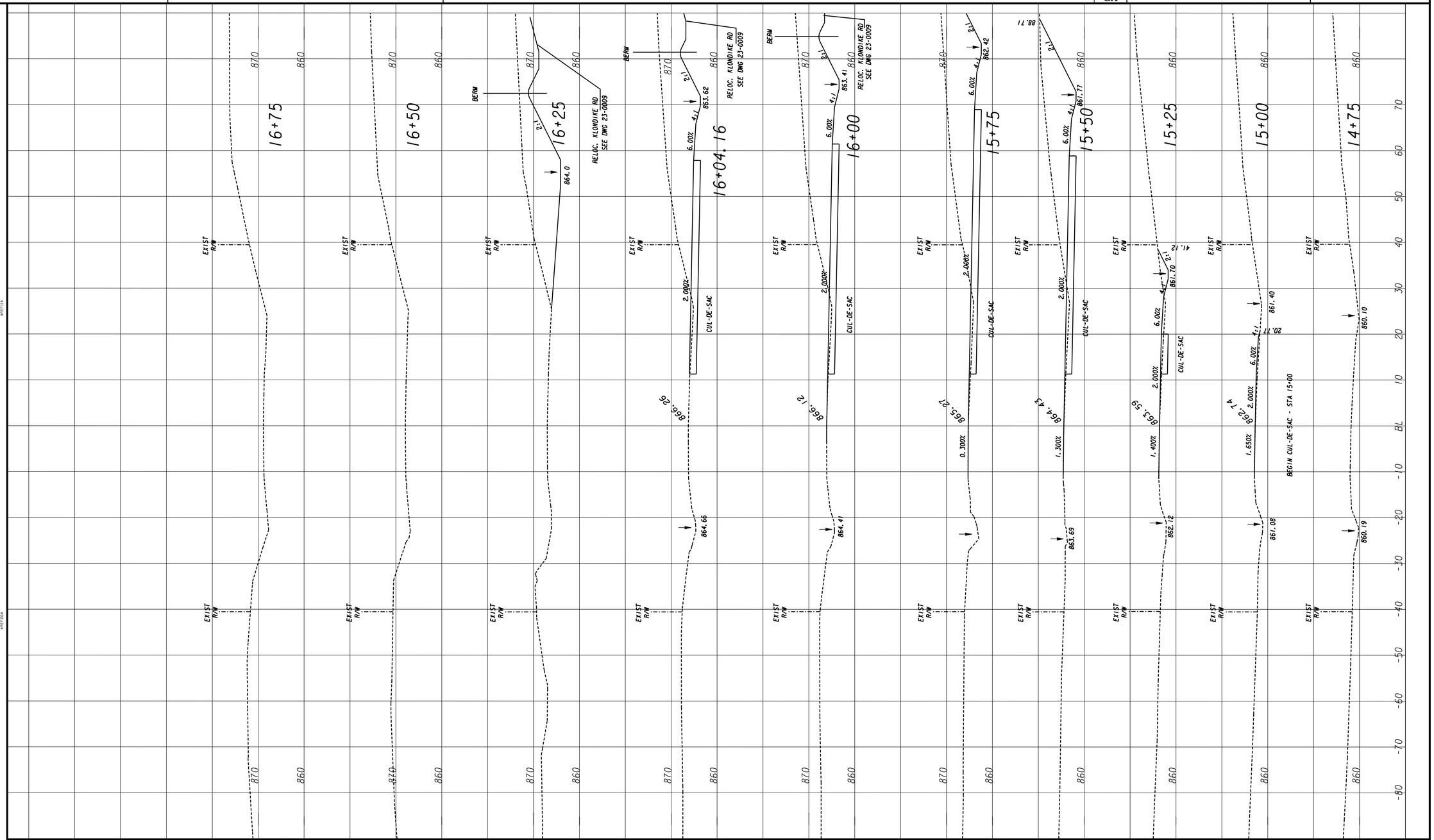
DRAWING No. 23-0024

...\Dgn\0693ZX504.DGN 4/13/2018 3:35:03 PM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



Engineering
Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
OLD KLONDIKE RD

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0025

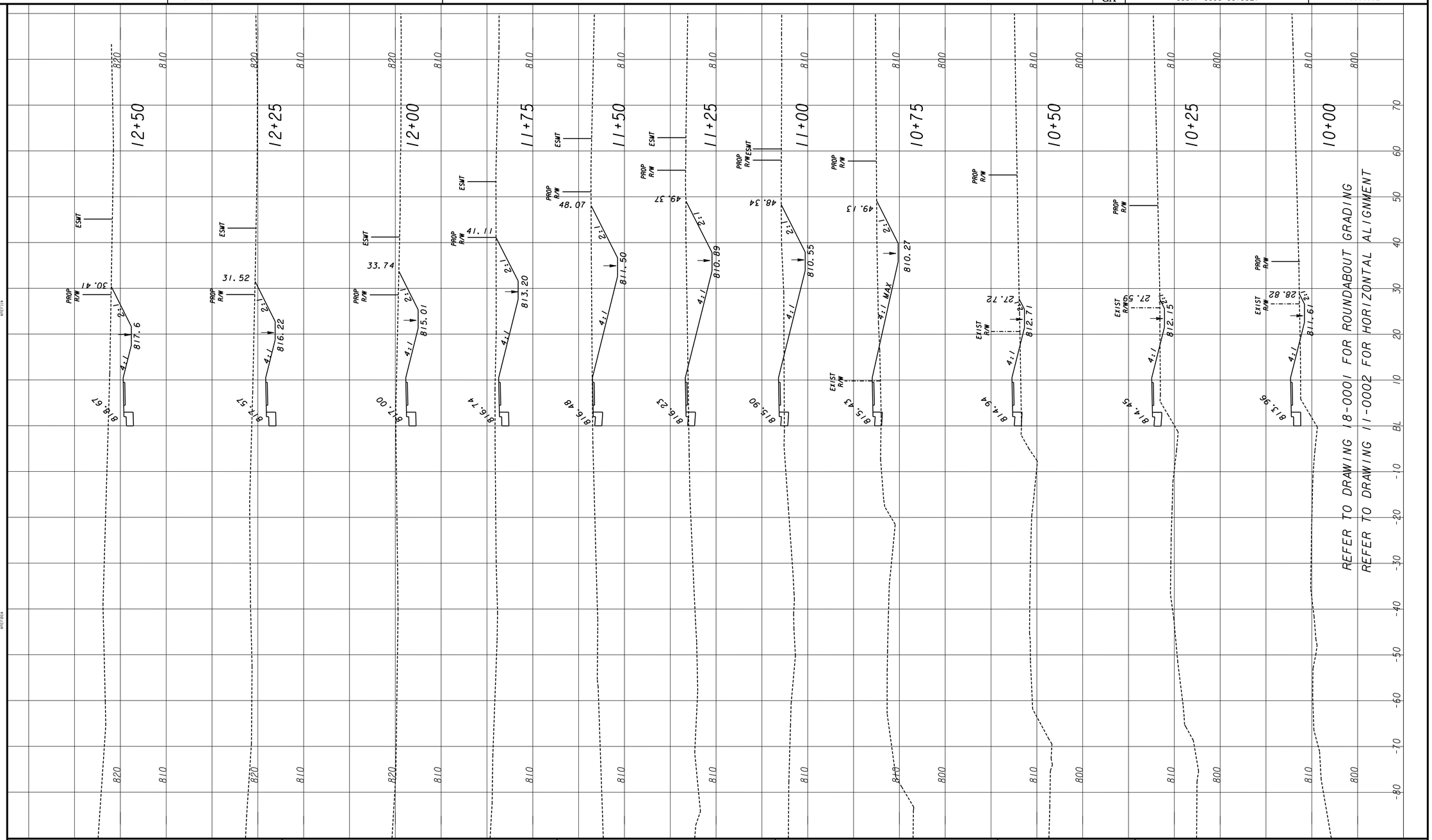
3/1/2007 SUYEN

...\Dgn\0006932X304.DGN 5/8/2018 9:06:22 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - SE QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0026

3/1/2007 SUXEN

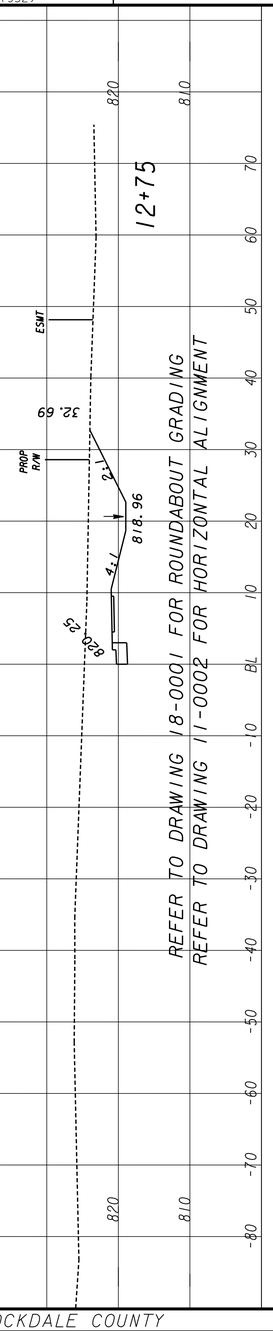
...\Dgn\0006932XS05.DGN 5/8/2018 9:12:14 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

$REFTEN
$REFTEN
$REFTEN
$REFTEN
$REFTEN
$REFTEN



$REFBOT
$REFBOT
$REFBOT
$REFBOT
$REFBOT
$REFBOT

3/1/2007 SUXEN

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - SE QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

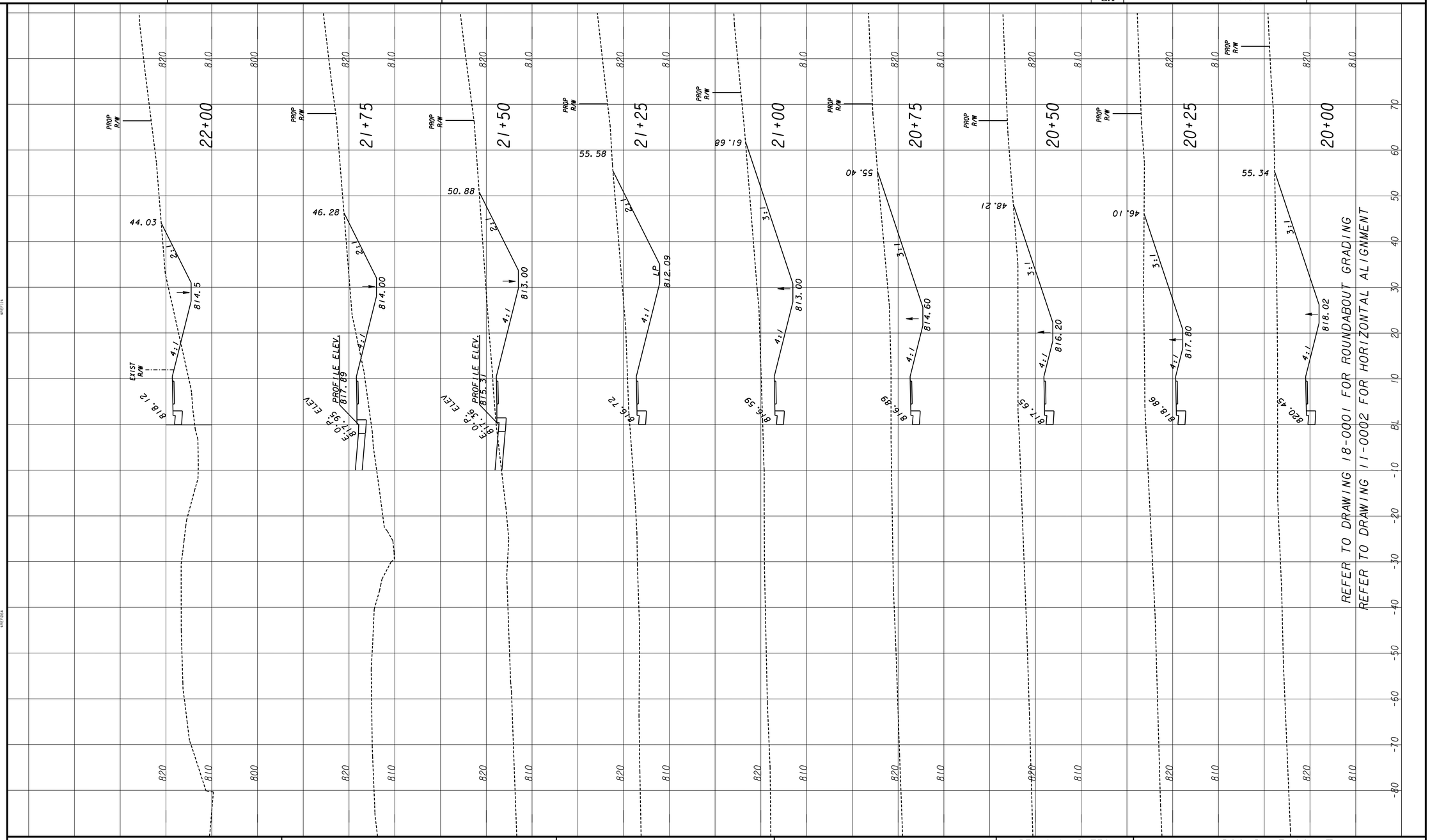
DRAWING No. 23-0027

...\Dgn\0006932X505.DGN 5/8/2018 9:12:43 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - NE QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0028

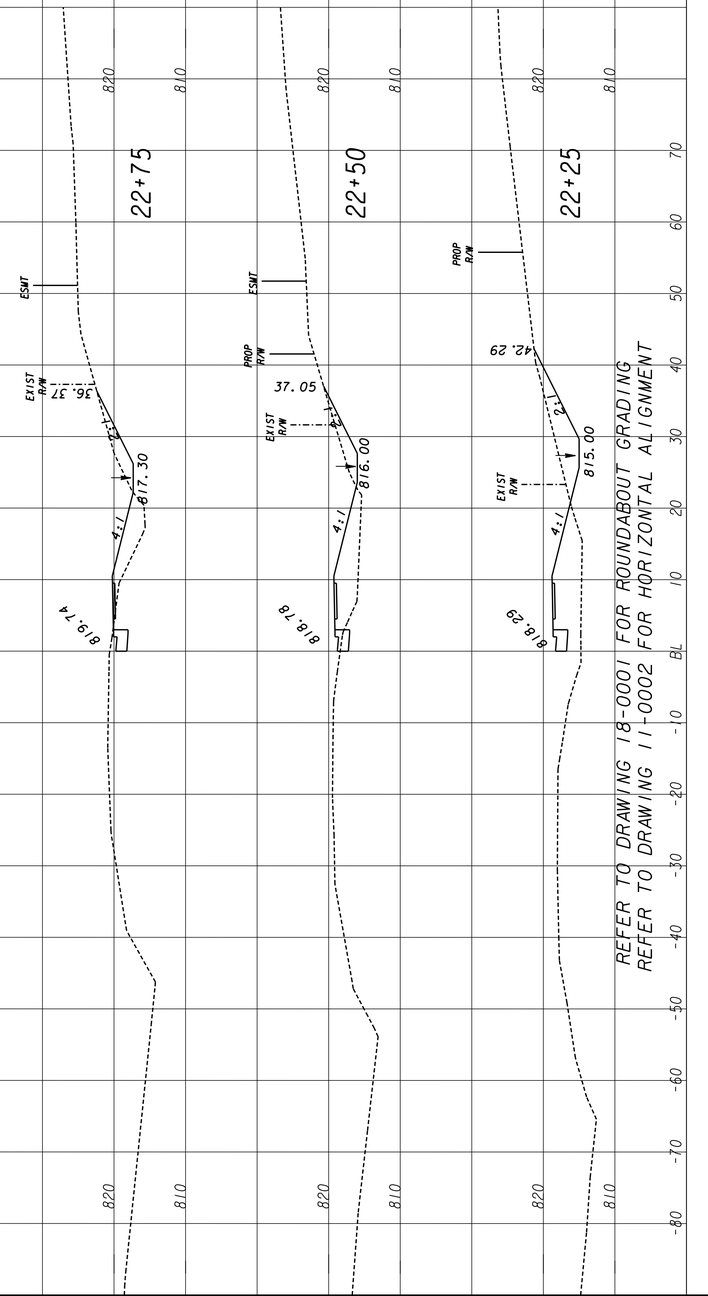
3/1/2007 SUXEN

...\Dgn\0006932XS06.DGN 5/8/2018 9:16:09 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/1/2007 SUXEN

...\Dgn\0006932XS06.DGN 5/8/2018 9:16:33 AM

QK4 • Engineering • Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - NE QUADRANT E.O.P.

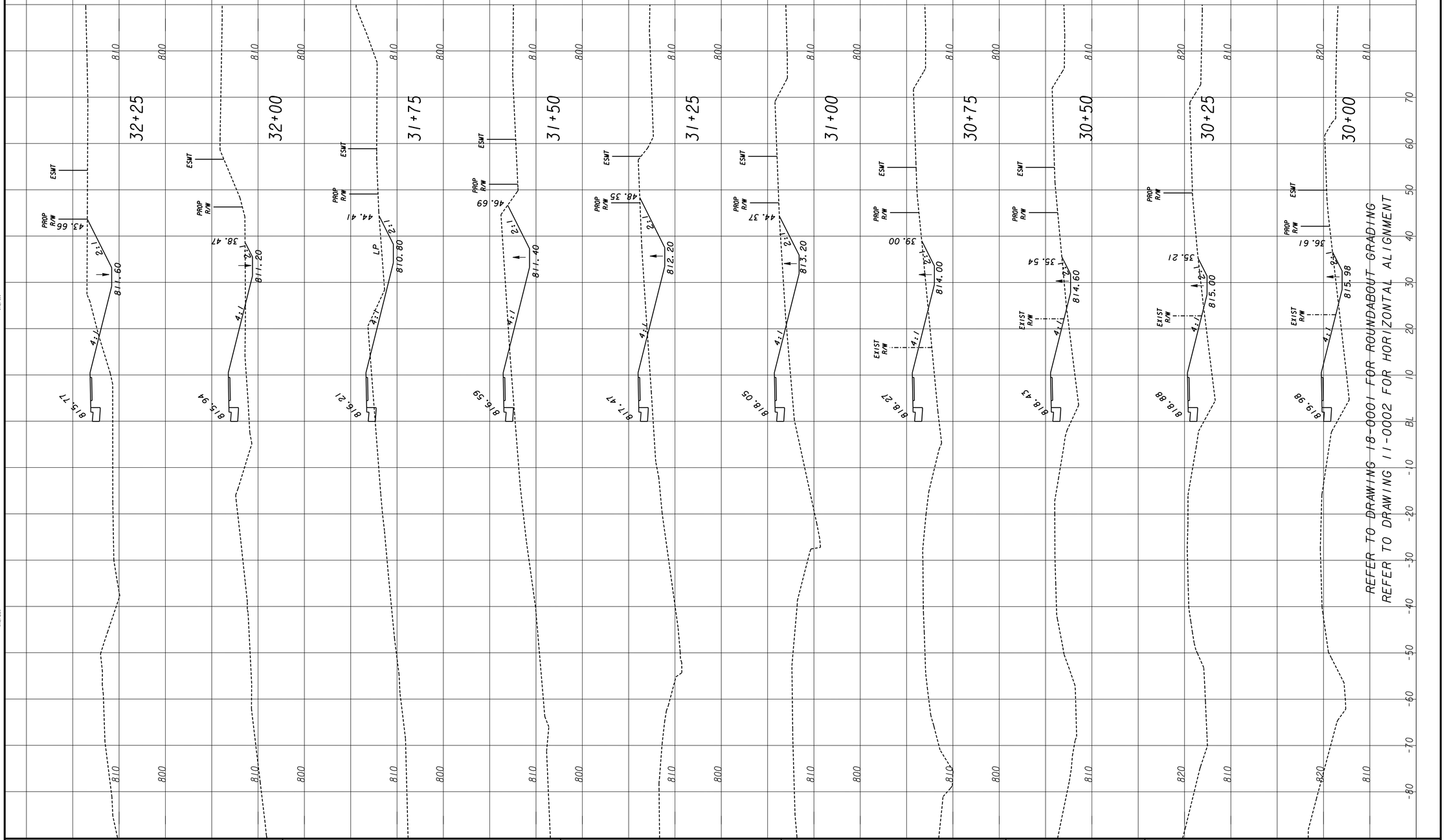
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0029

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	P. I. No.
GA	CSSTP-0006-001932)	0006932



REFER TO DRAWING 18-0001 FOR ROUNDABOUT GRADING
REFER TO DRAWING 11-0002 FOR HORIZONTAL ALIGNMENT

3/1/2007 SUXEN

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - NW QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

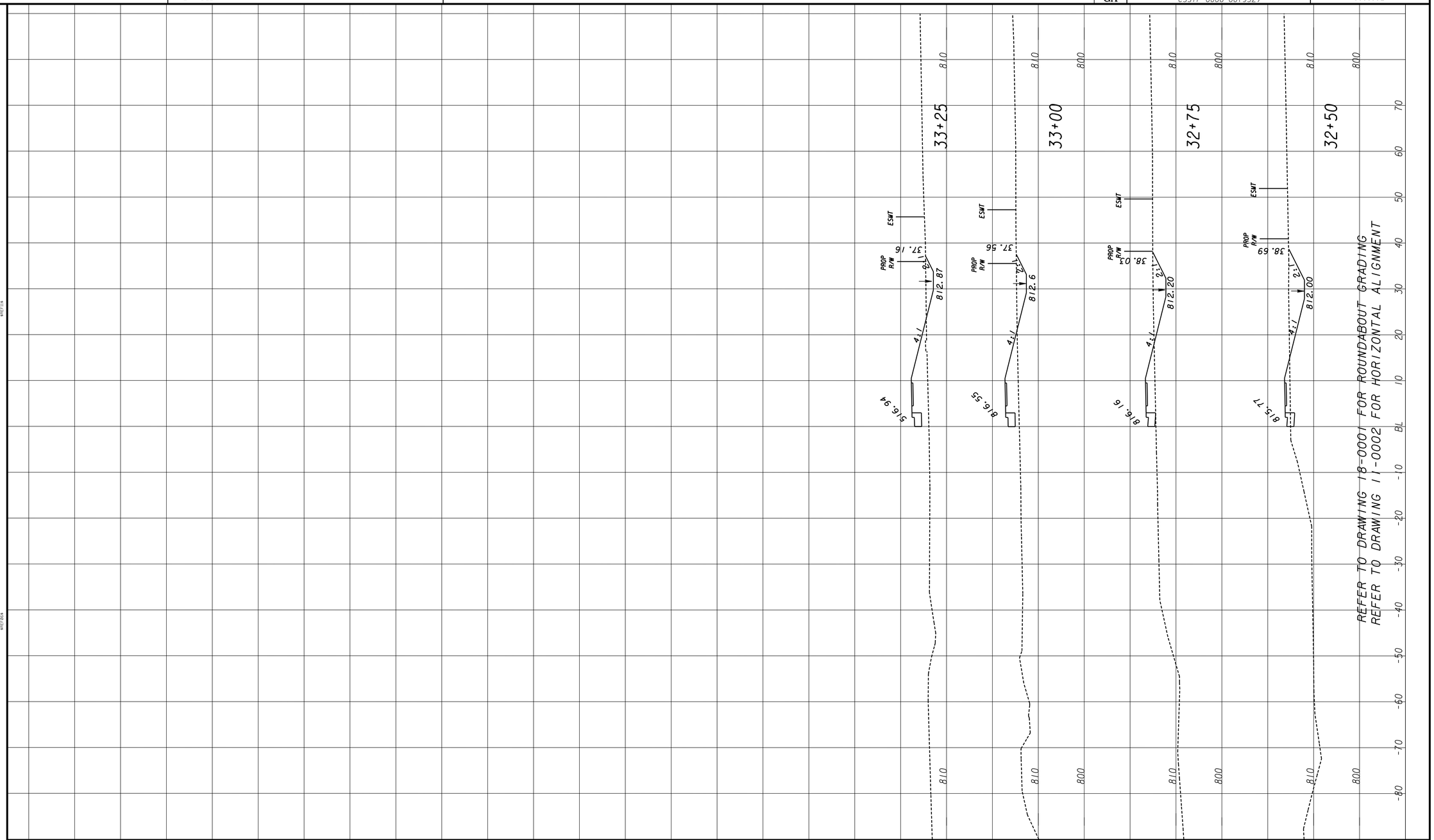
DRAWING No. 23-0030

I:\gra\0006932X307.DGN 5/8/2018 9:17:33 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



3/11/2007 SUXEN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - NW QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

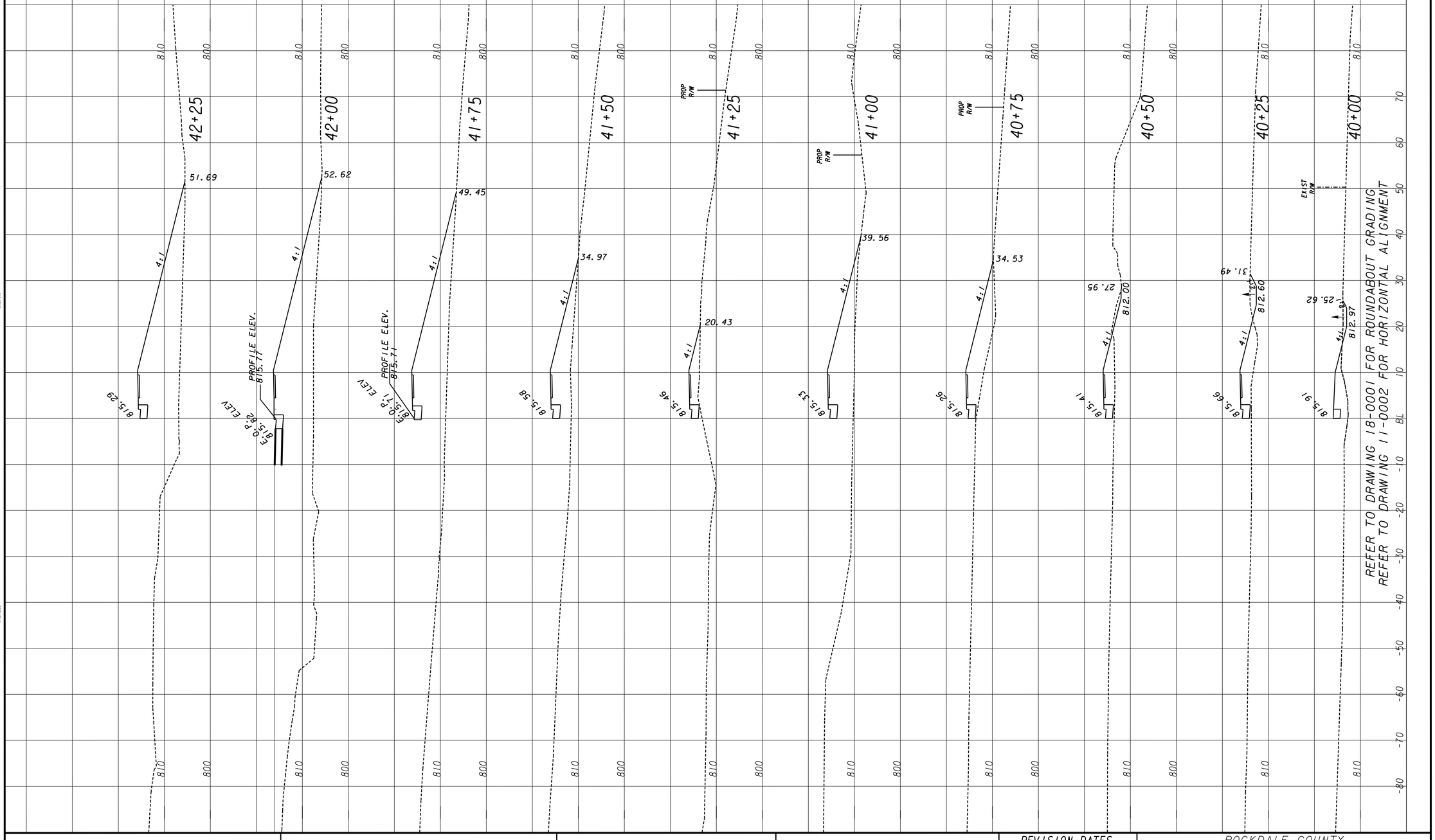
DRAWING No. 23-0031

I:\gm\0006932\XS07.DGN 5/8/2018 9:48:23 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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



REFER TO DRAWING 18-0001 FOR ROUNDABOUT GRADING
REFER TO DRAWING 11-0002 FOR HORIZONTAL ALIGNMENT

$REF$$
$REF$$
$REF$$
$REF$$
$REF$$
$REF$$

3/1/2007 SUYEN $REF$$ $REF$$ $REF$$ $REF$$ $REF$$ $REF$$

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - SW QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 23-0032

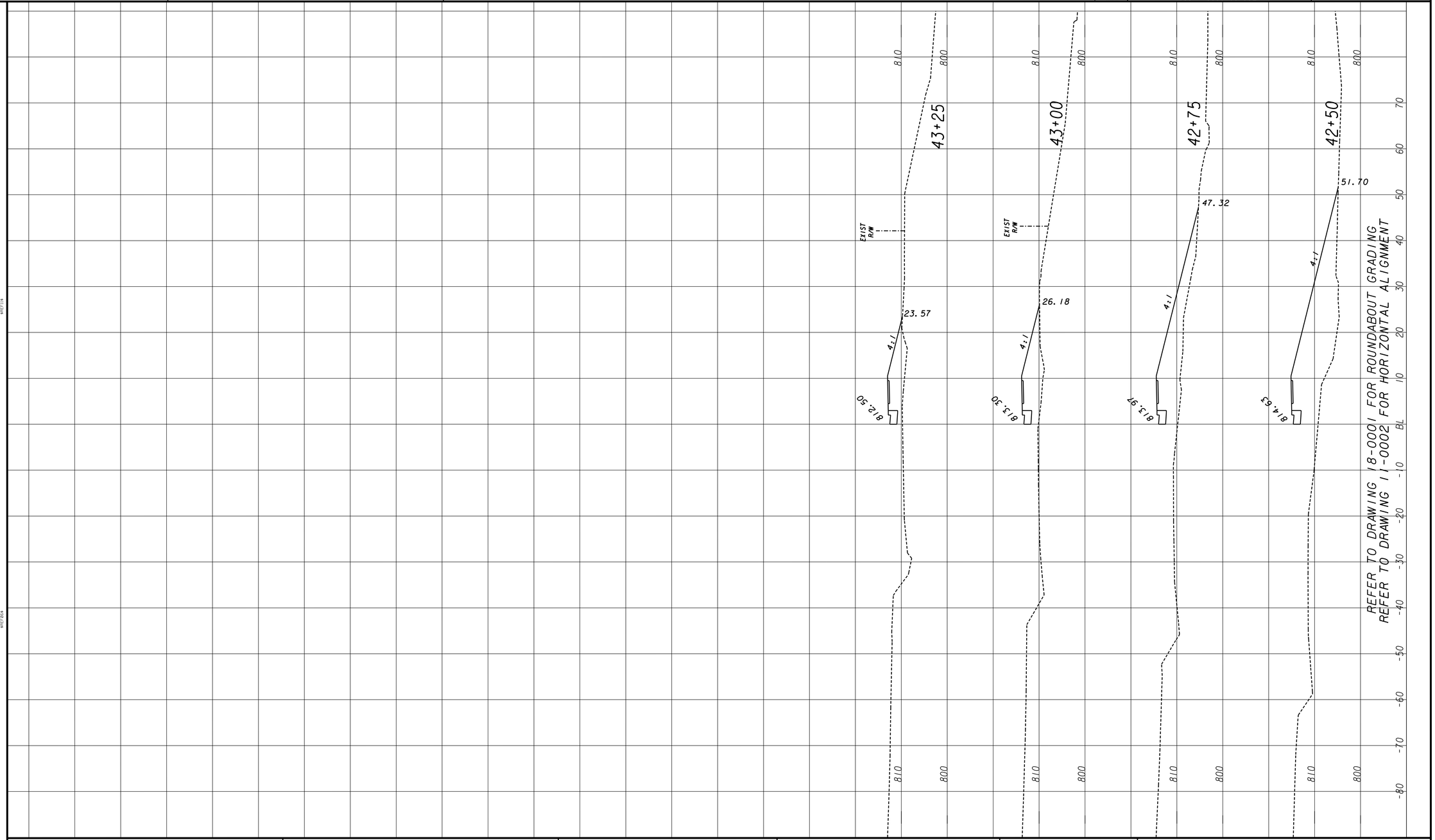
...\Dgn\0006932XS08.DGN 5/8/2018 9:19:28 AM

DATE$$$ TIME$$$ PRF DGN

$USER$ $$PENTABLE$$

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

REF REF REF REF REF REF



REF REF REF REF REF REF

3/1/2007 SUXEN

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

HORIZ AND VERT:
SCALE IN FEET
0 10 20 40

REVISION DATES

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ROUNDABOUT - SW QUADRANT E.O.P.

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
23-0033

...\Dgn\0006932XS08.DGN 1/30/2019 2:22:28 PM

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

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
E	E	E	ELECTRIC
E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
GW	GW	GW	GUY WIRE
T	T	T	TELECOMMUNICATIONS
T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
TV	TV	TV	CABLE TV
TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
TC	TC	TC	TRAFFIC CONTROL

EXISTING UNDERGROUND	UNDERGROUND TO BE REMOVED	PROPOSED UNDERGROUND	TYPE OF UTILITY
E	E	E	ELECTRIC (QL-D)
T	T	T	TELECOMMUNICATIONS (QL-D)
TV	TV	TV	CABLE TV (QL-D)
W	W	W	WATER (QL-D)
W	W	W	WATER FOR LABELED PIPE SIZES (QL-D)
NW	NW	NW	NON-POTABLE WATER (QL-D)
NW	NW	NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
STM	STM	STM	STEAM (QL-D)
STM	STM	STM	STEAM FOR LABELED PIPE SIZES (QL-D)
SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
G	G	G	GAS (QL-D)
G	G	G	GAS FOR LABELED PIPE SIZES (QL-D)
P	P	P	PETROLEUM (QL-D)
P	P	P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
TC	TC	TC	TRAFFIC CONTROL (QL-D)

UTILITY LEGEND

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
E	E	E	ELECTRIC MANHOLE	W	W	W	WELL
H	H	H	HAND HOLE	W	W	W	WATER VAULT
E	E	E	TRANSFORMER	W	W	W	WATER VALVE MARKER
E	E	E	ELECTRIC METER				STAND PIPE
			UTILITY POLE/GUY POLE				CLEANOUT
			LIGHT POLE	SS	SS	SS	SANITARY SEWER MANHOLE
			GUY ANCHOR	ARV	ARV	ARV	AIR RELEASE VALVE
E	E	E	ELECTRIC BOX	GT	GT	GT	GREASE TRAP
M	M	M	MARKER	S	S	S	SANITARY SEWER FORCE MAIN VALVE
T	T	T	TELECOMMUNICATIONS MANHOLE				VENT
T	T	T	TELECOMMUNICATIONS PEDESTAL	G	G	G	GAS VALVE
X	X	X	SPLICE BOX	G	G	G	GAS METER
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aKa "SLICK")	G	G	G	GAS MANHOLE
			CABINET	GPR	GPR	GPR	GAS PRESSURE REGULATOR
			PHONE BOOTH	G	G	G	GAS VAULT
			CABLE TV PEDESTAL	GTS	GTS	GTS	GAS TEST STATION
TV	TV	TV	CABLE TV MANHOLE	P	P	P	PETROLEUM VALVE
W	W	W	WATER VALVE				
W	W	W	WATER METER				
W	W	W	WATER MANHOLE				
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)				
BFP	BFP	BFP	BACKFLOW PREVENTER				
PIV	PIV	PIV	PRESSURE INDICATOR VALVE				
ARV	ARV	ARV	AIR RELEASE VALVE				

MISC.

LOS TH — LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION

TEST HOLE (QL-A ONLY)

EOI — END OF INFORMATION

QUALITY LEVEL (QL) DELINEATION

123 — POLE ID

A01 — SANITARY SEWER MANHOLE (SSMH) ID

QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

GEORGIA811 Utilities Protection Center, Inc

Know what's below. Call before you dig.

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

DATE	REVISION

ROCKDALE COUNTY

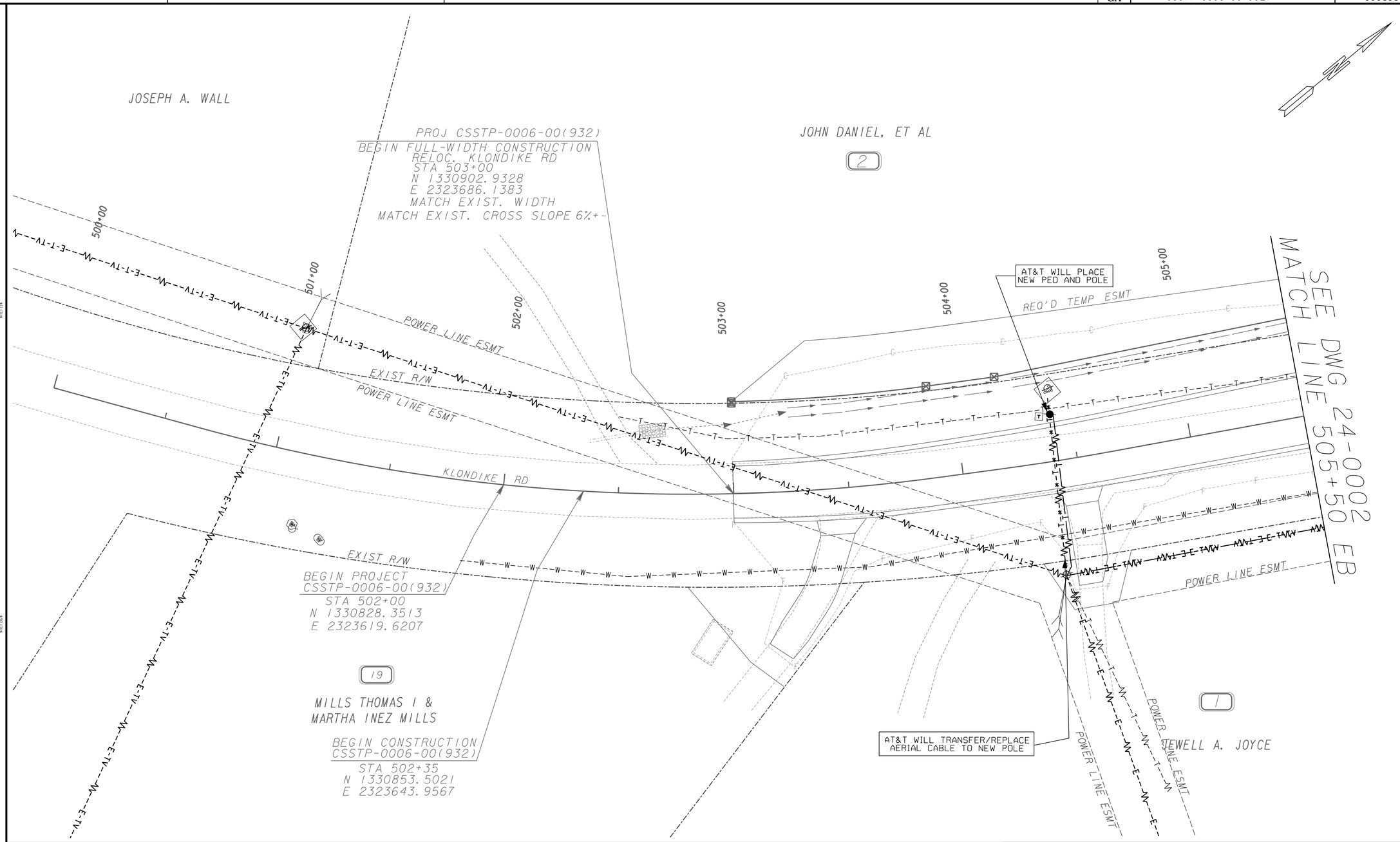
DEPARTMENT OF TRANSPORTATION

UTILITY PLANS
LEGEND

DRAWING No. 24-0000

3//1/2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET

0 20 40 80

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

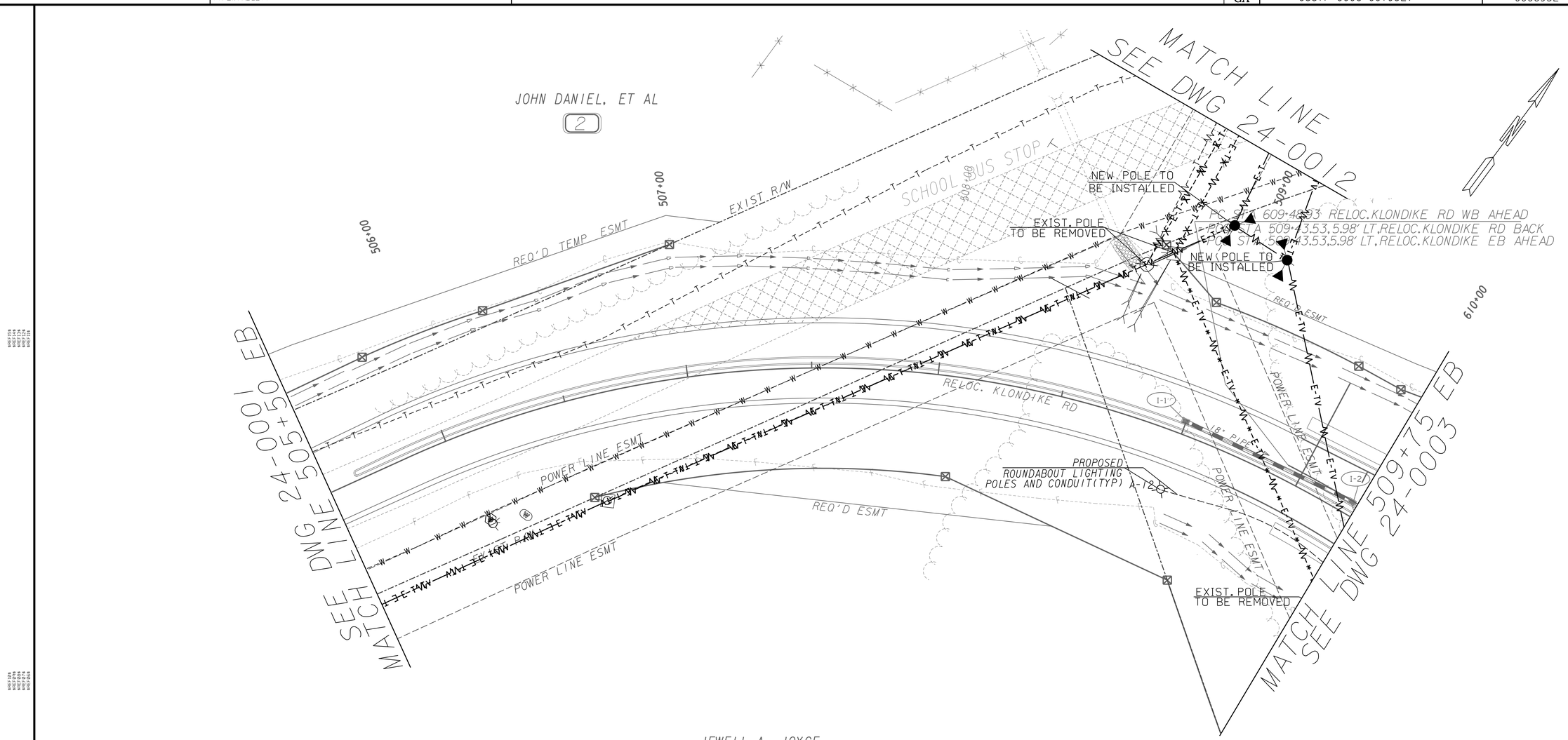
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0001

3/1/2007 GPLN

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

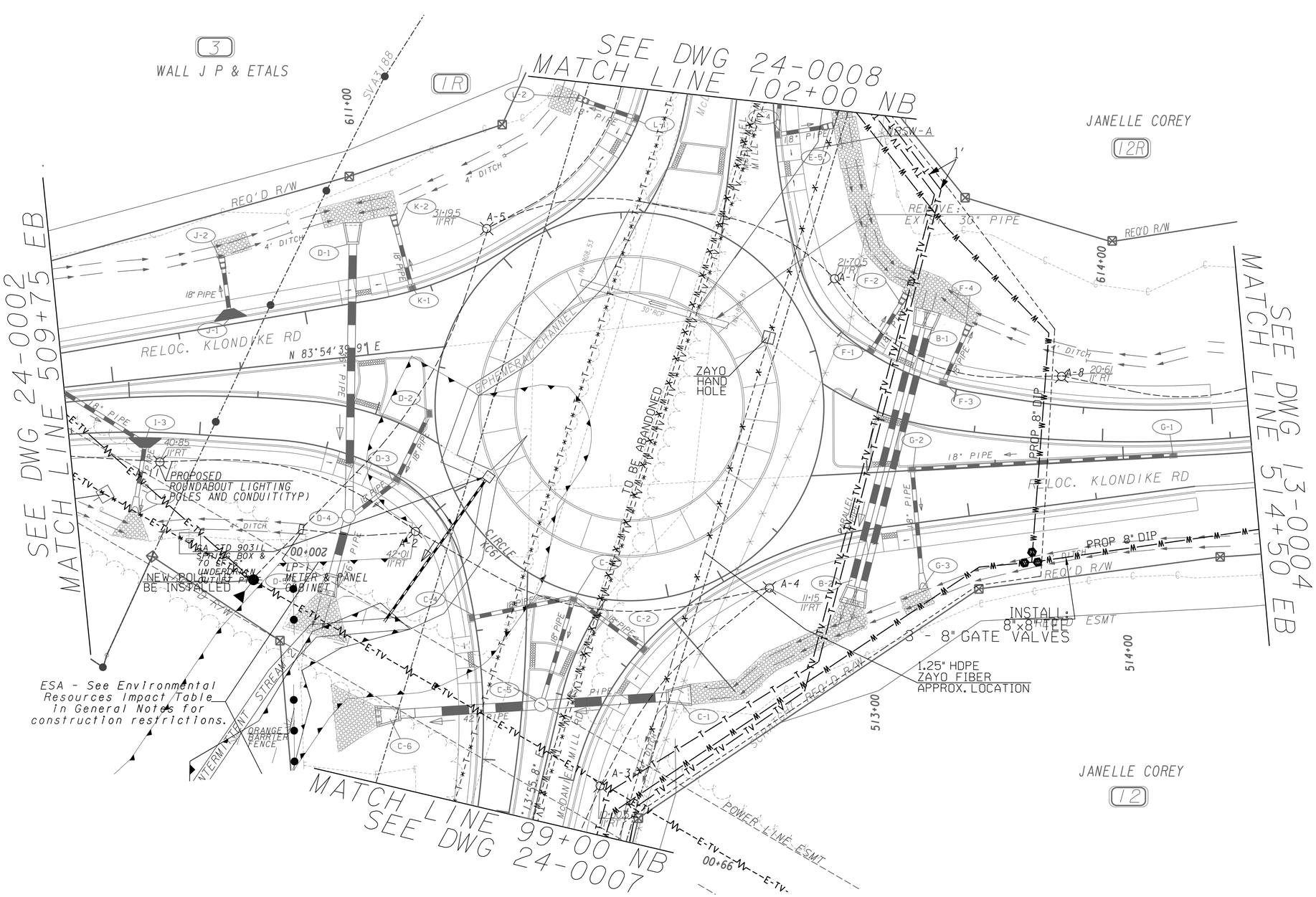
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0002

3//2007 GPLN

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

UTILITY PLANS

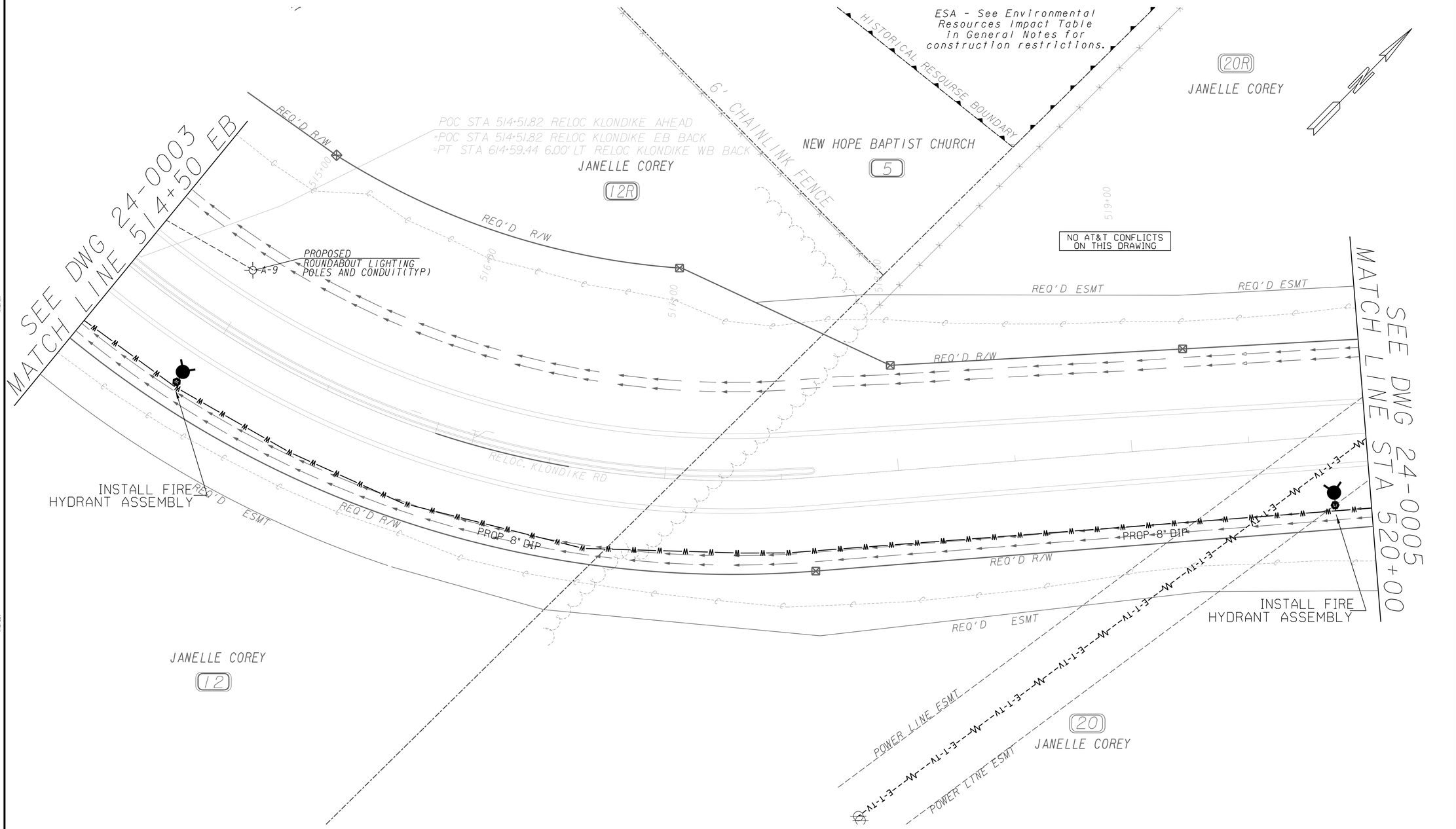
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0003

3/1/2007 GPLN

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

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

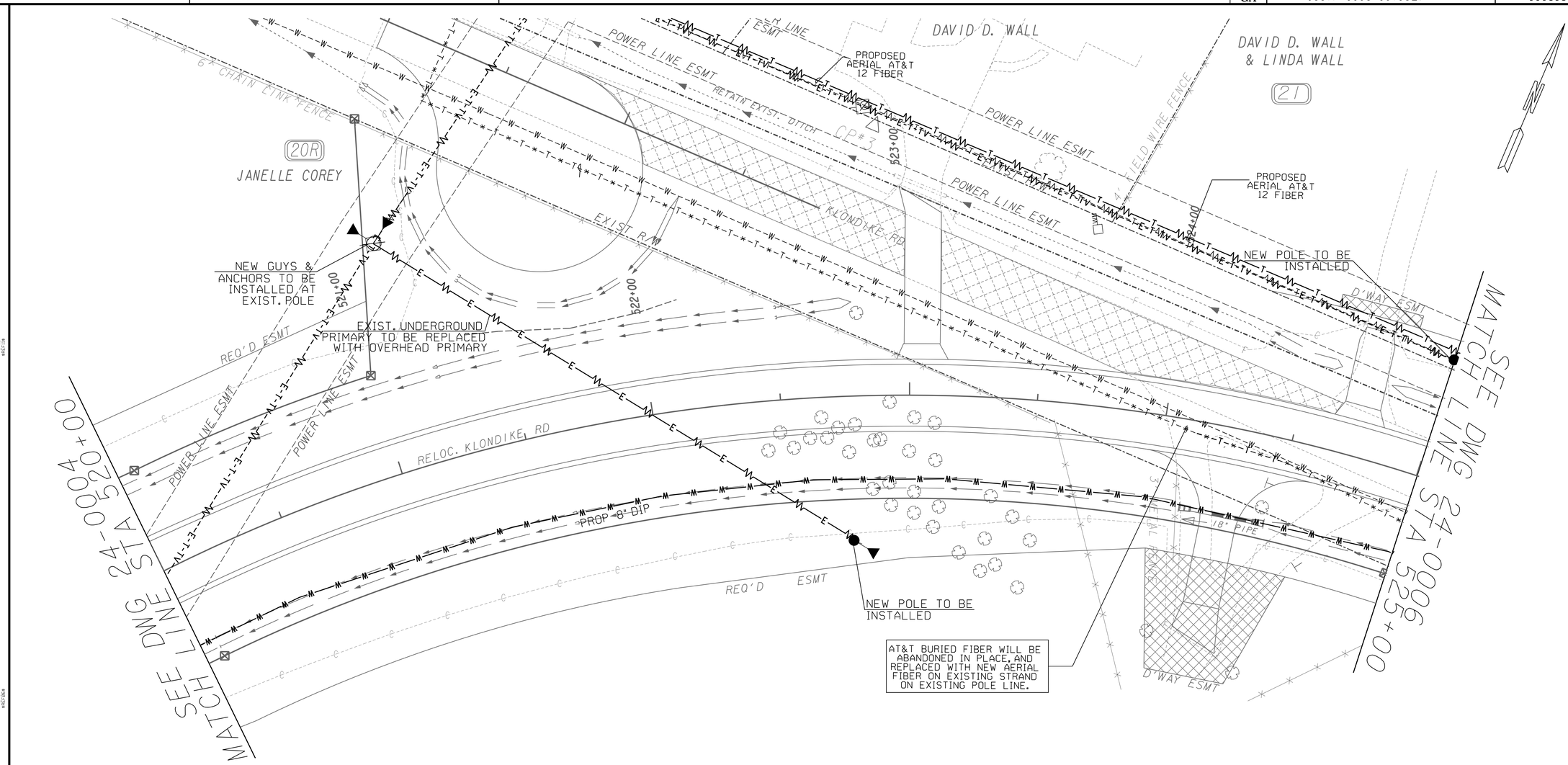
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0004

3/1/2007 GPLN

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



Engineering
Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

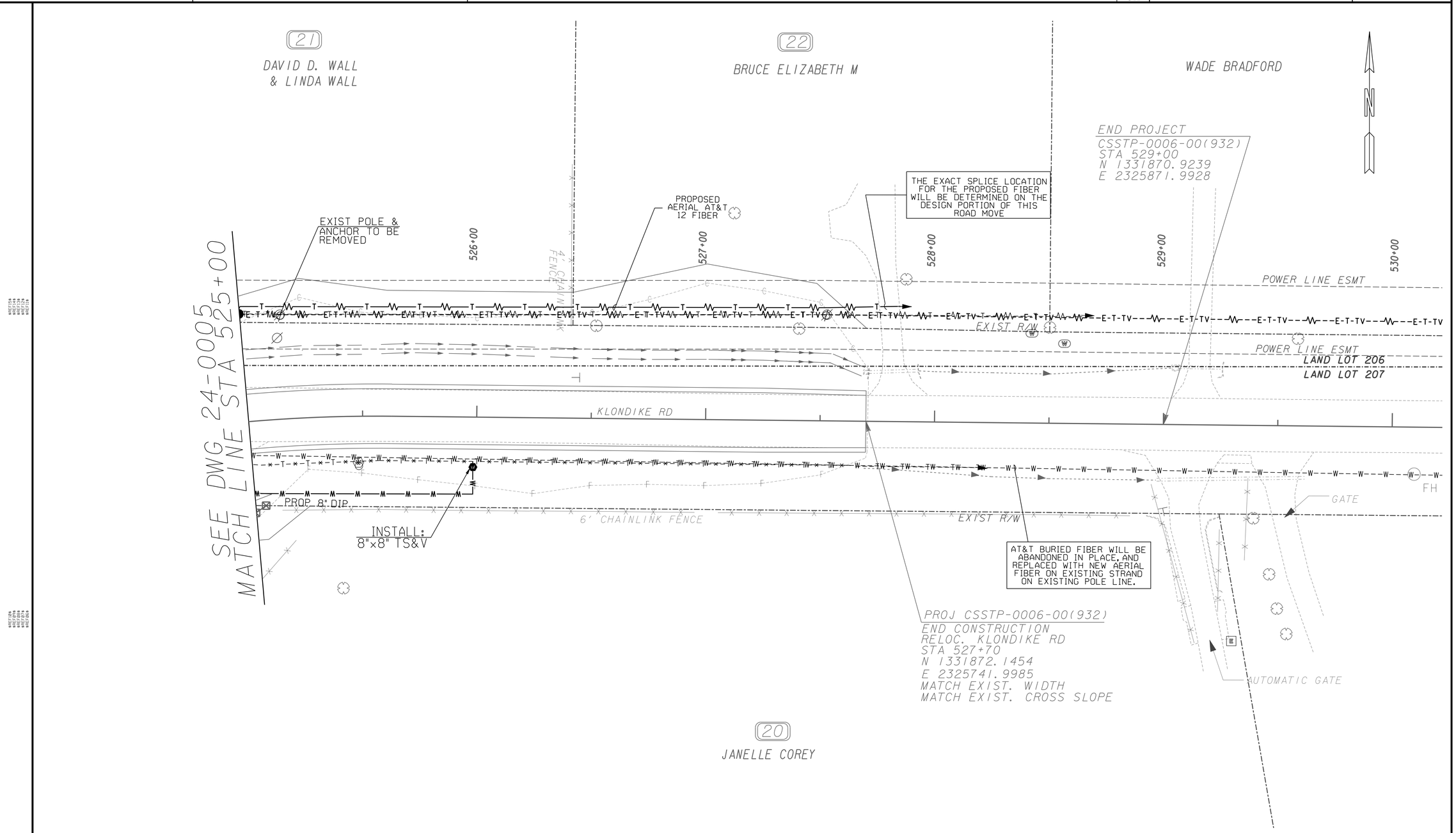
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0005

3//2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

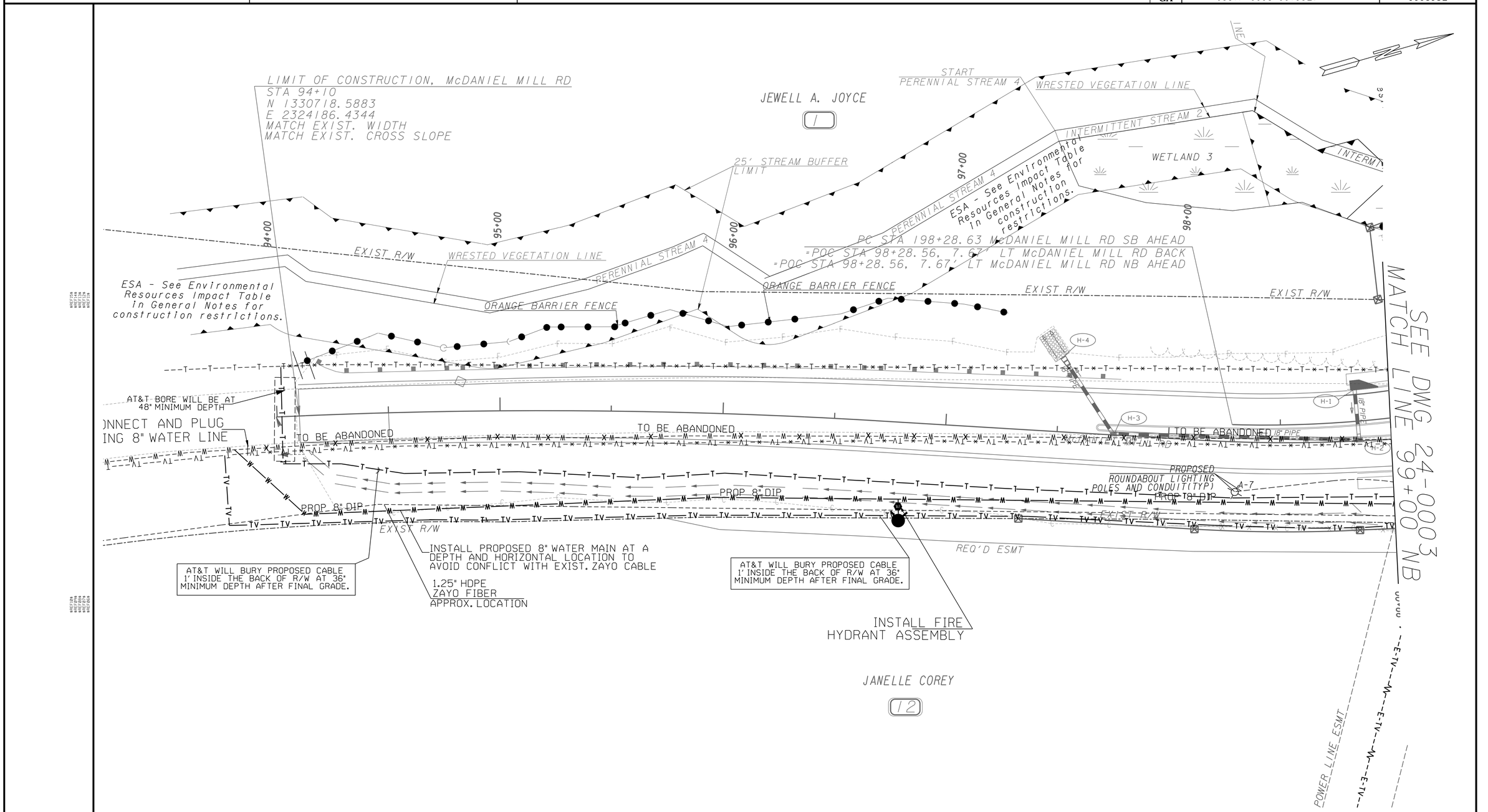
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0006

3/1/2007 GPLN

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

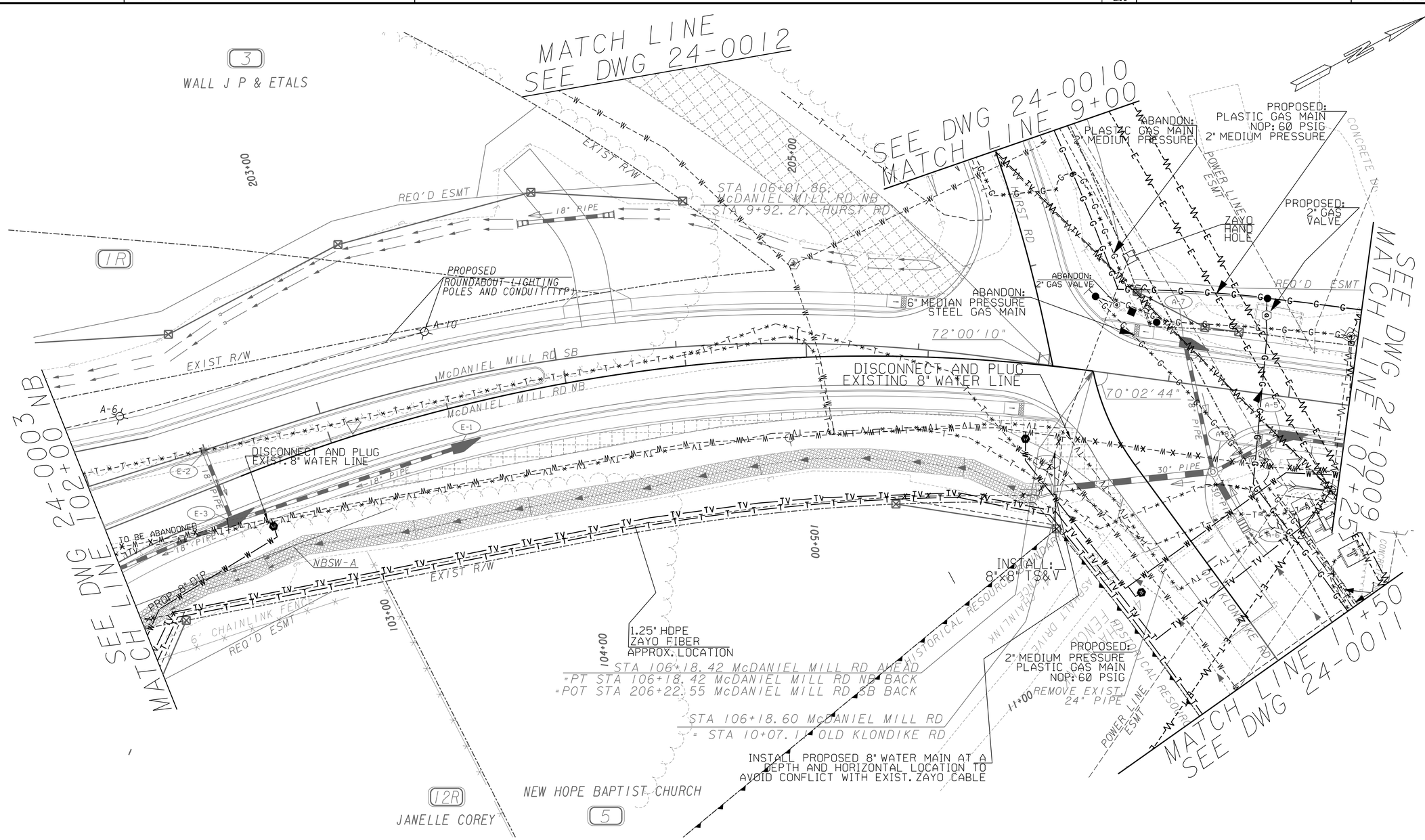
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO.
24-0007

3/1/2007 GPLN

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



DATE	REVISION

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

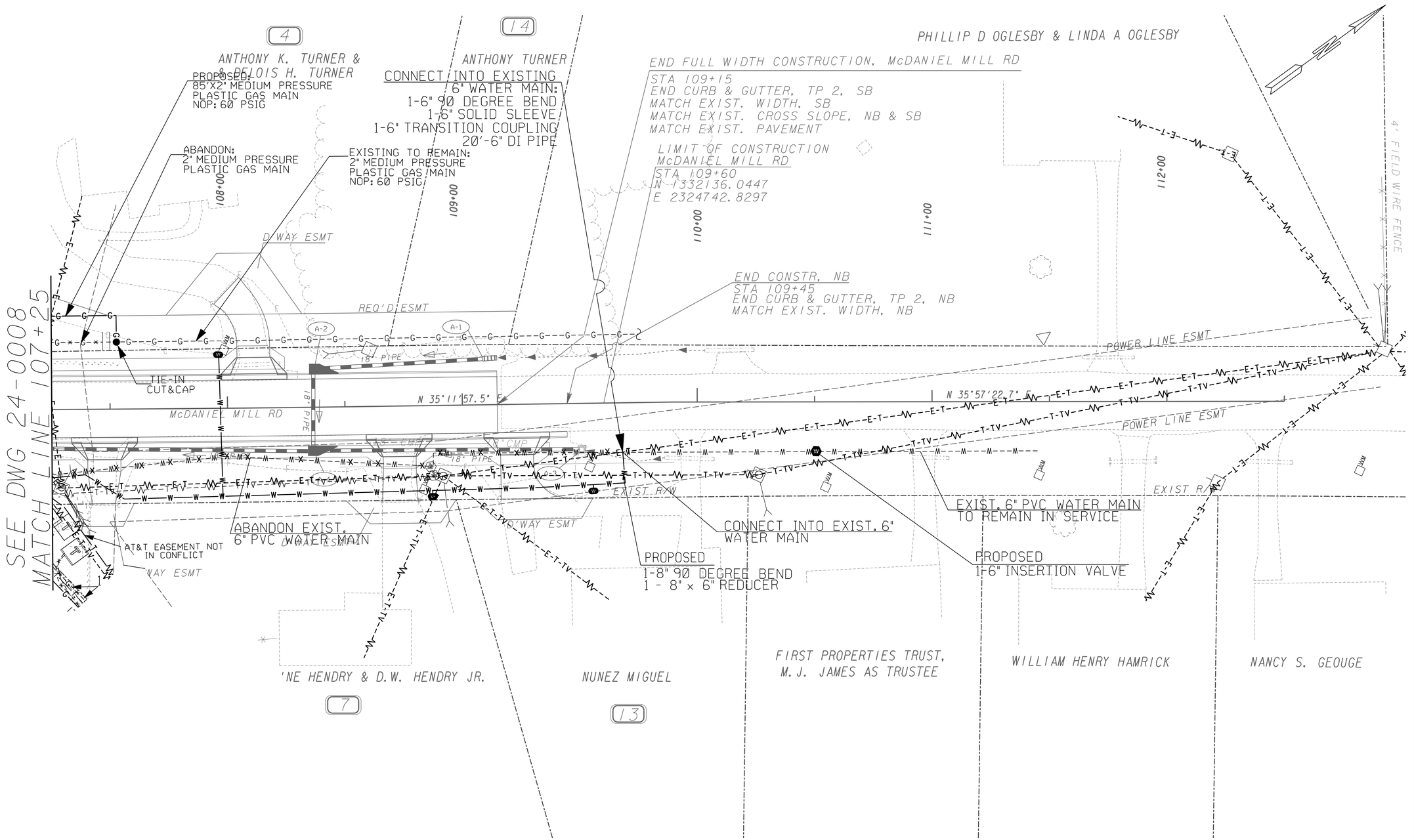
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO.
24-0008

3/1/2007 GPLN

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

UTILITY PLANS

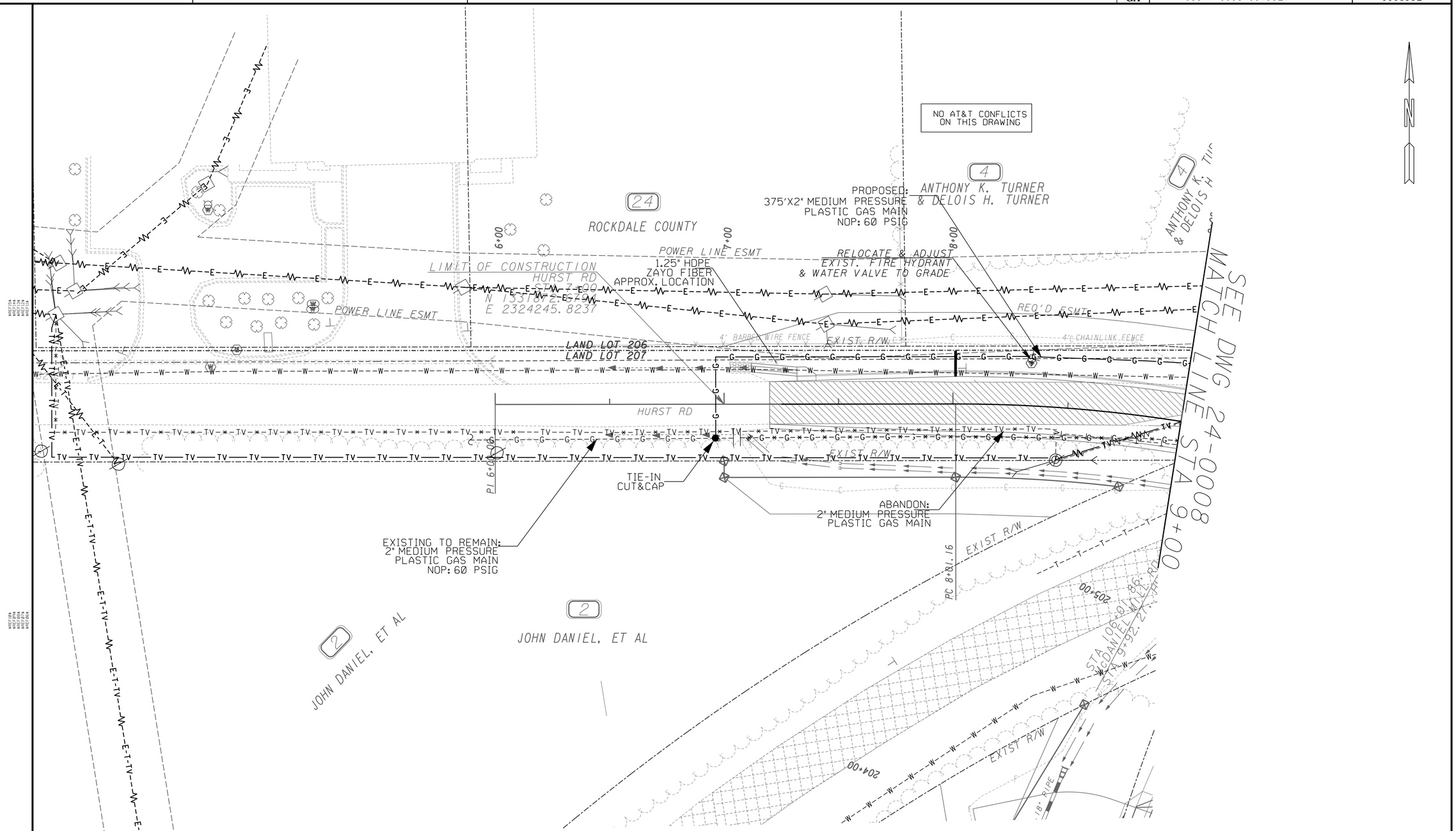
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0009

3/1/2007 GPLN

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

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



DATE	REVISION

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

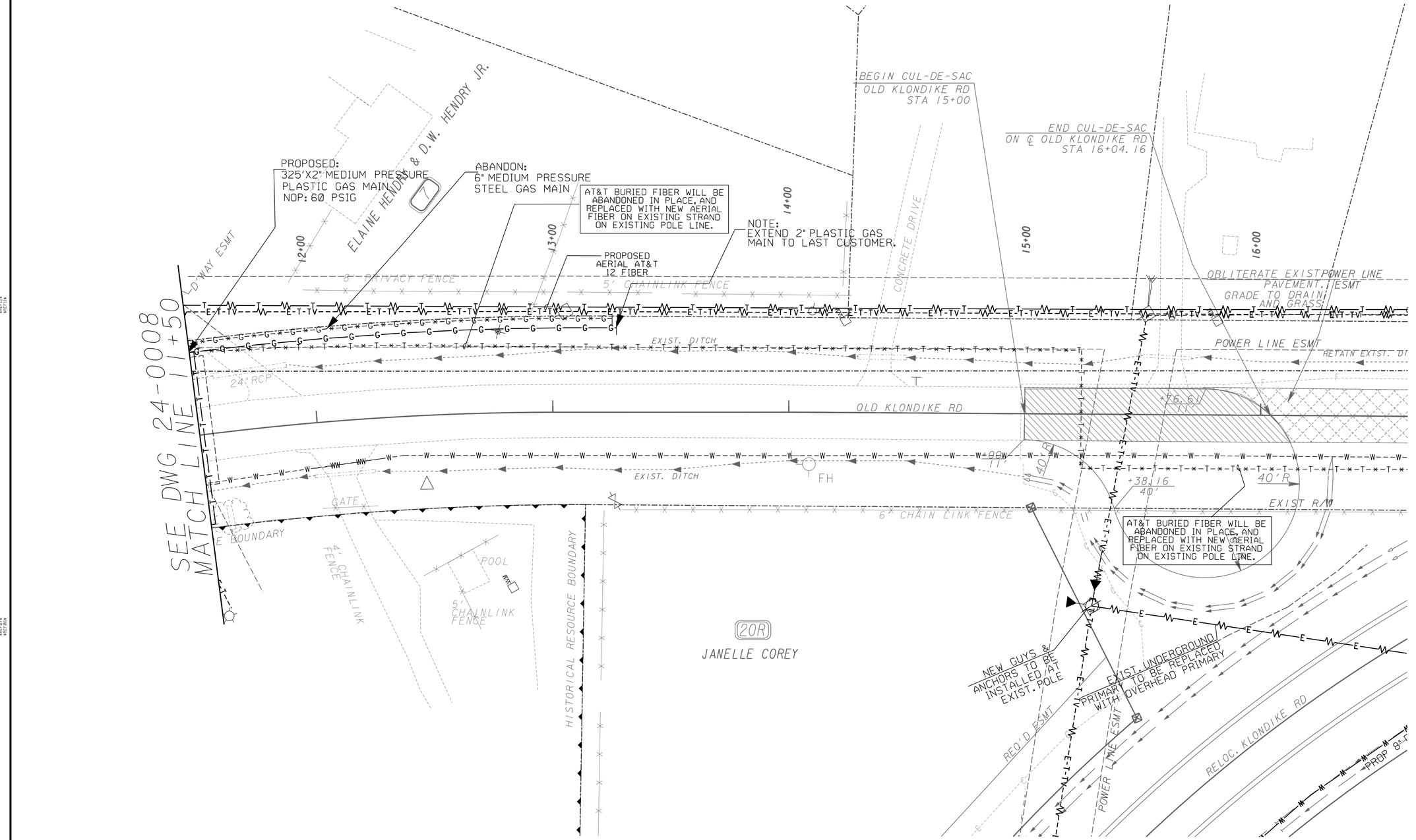
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0010

3/1/2007 GPLN

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

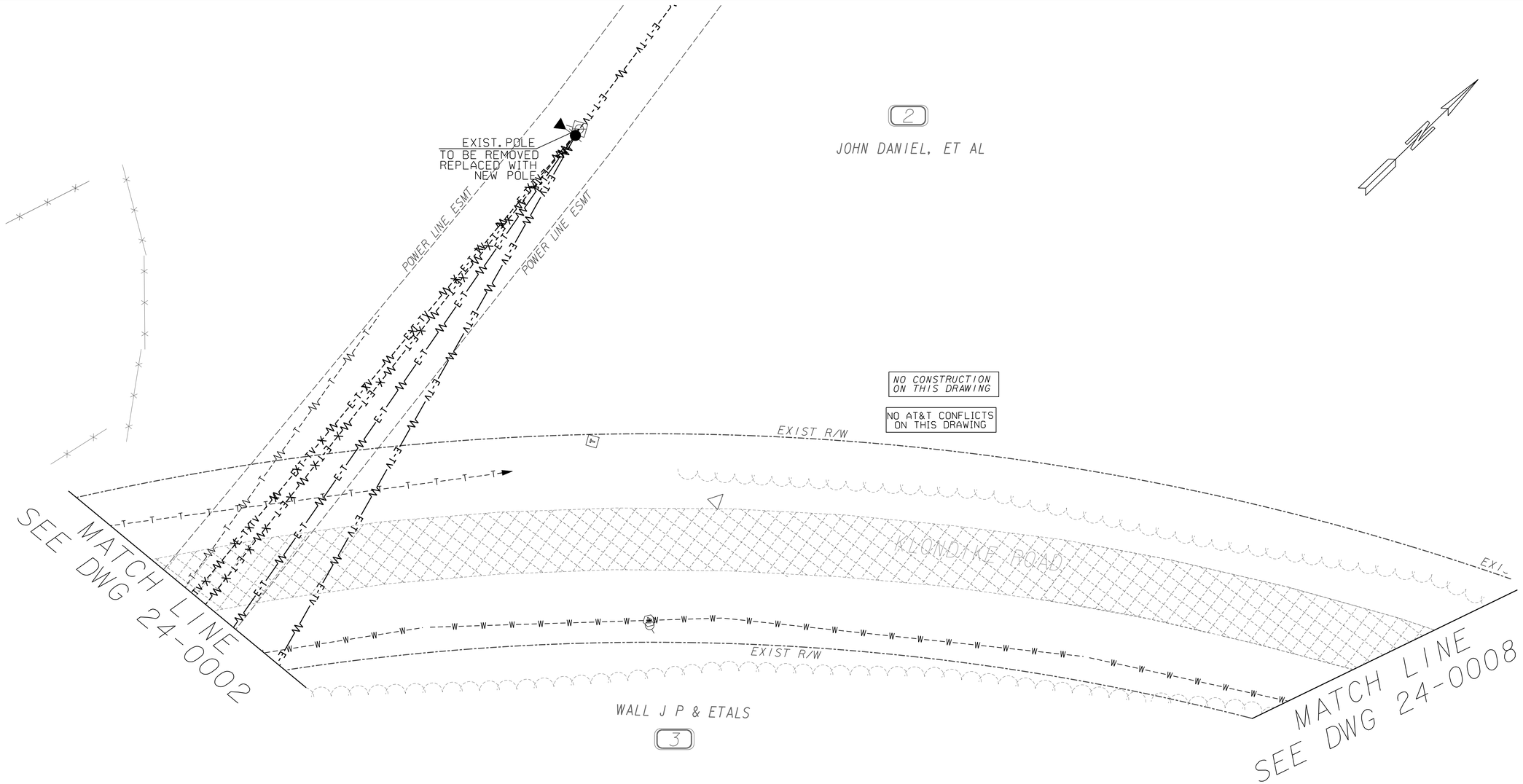
UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 24-0011

3/1/2007 GPLN

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

UTILITY PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
24-0012

3/1/2007 GPLN

STATE	PROJECT NUMBER	GDOT
GA	CSSTP-0006-00(932)	

GENERAL ELECTRICAL NOTES

1. SCOPE:
   - A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN.
   - B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.
   - C. ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.
   - D. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE, STANDARD BUILDING CODE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE INSTALLATION ACCORDINGLY.
4. ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
5. PANEL FEEDERS SHALL BE ROUTED IN GRS CONDUITS IF ABOVE GRADE AND SCHEDULE 40 PVC IF ROUTED UNDERGROUND. MINIMUM DEPTH OF THE CONDUITS SHALL BE 24" UNDER THE ROAD AND 18" ELSEWHERE.
6. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM CONDUCTOR SIZE FOR POWER AND LIGHTING WIRING. USE #14 AWG MINIMUM CONDUCTOR FOR SIGNAL WIRING. INSULATION FOR ALL CONDUCTORS SHALL BE THWN-2 WITH COLOR CODING AS FOLLOWS:

   240/120V

   PHASE A – BLACK — ISOLATED GROUND – GREEN
   PHASE B – RED — EQUIPMENT GROUND – GREEN W/ WHITE STRIPE
   PHASE C – BROWN
7. POWER WIRES SIZES #12 AWG AND #10 AWG SHALL BE SOLID TYPE. ALL OTHER SIZES SHALL BE STRANDED.
8. CONDUIT ACCESSORIES SUCH AS EXPANSION JOINTS, PULLBOXES, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, ETC. SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
9. CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
10. ALL ELECTRICAL MATERIALS SUCH AS CONDUIT, CABLES, WIRES, AND JUNCTION BOXES SHALL BE NEW U.L. LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
11. ALL LUMINARIES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH GDOT'S QUALIFIED PRODUCTS LIST REGARDING QUALIFIED SUPPLIERS.
12. LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON ALL LUMINARIES, POLES, LIGHTING CONTROL PANELS, AND ALL OTHER ELECTRICAL EQUIPMENT.
13. RIGID CONDUIT INSTALLED ON STRUCTURES SHALL BE SUPPORTED BY AT LEAST TEN FEET AND WITHIN THREE FEET OF JUNCTION BOXES, LUMINARIES, ETC.
14. REFRACTORS SHALL BE PRISMATIC GLASS.
15. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF PROJECT. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT.
16. ALL SHOP DRAWINGS FOR LIGHTING STANDARDS, LUMINARIES, AND OTHER RELATED LIGHTING MATERIALS, ETC. SHALL BE SUBMITTED TO THE PROJECT CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
17. NO CONDUIT IS TO BE RUN ON PRIVATE PROPERTY.
18. ALL CONDUITS SHALL BE TRENCHED BEHIND SIDEWALK. CONDUITS ROUTED UNDER ROADWAYS SHALL BE DIRECTIONAL BORE AS PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS.
19. CONTRACTOR SHALL ROUTE ALL CONDUIT RUNS BETWEEN EACH FIXTURE AND FROM THE LAST FIXTURE TO THE UTILITY COMPANY SERVICE LOCATION IN THE MOST DIRECT ROUTE POSSIBLE.
20. CONTRACTOR SHALL FURNISH AND INSTALL A 3/4"X10' GROUND ROD AT EACH OF THE LIGHTING POLES AND AT EACH SERVICE POINT, DRIVEN TO 24" BELOW FINISHED GRADE.
21. POLES WITH LIGHTS SHALL BE INSTALLED ONLY AFTER THE PERMANENT SIDEWALK IS INSTALLED.
22. CONCRETE POLE BASES SHALL BE INSTALLED SUCH THAT THE POLE BASE SKIRTS SIT FLUSH WITH THE FINISHED GRADE LEVEL WHEN INSTALLED ON A SIDEWALK OR OTHER HARD SURFACE FINISH. WHERE CONCRETE POLE BASES ARE INSTALLED IN EARTH, THE CONCRETE POLE BASE SHALL EXTEND ABOVE GRADE SUCH THAT THE POLE BASE SKIRTS ARE INSTALLED AT 3.5" ABOVE FINISHED GRADE.
23. ALL WORK TO BE PERFORMED WITHIN PUBLICLY OWNED RIGHT-OF-WAY. BRING POWER TO SITE IS TO BE COORDINATED BETWEEN GA POWER AND CONTRACTOR.
24. CONTRACTOR SHALL INSTALL LIGHT FIXTURES TYPES SHOWN ON LIGHTING SCHEDULE AND IN THE PROPER LOCATIONS AS SHOWN ON THE PLAN DRAWINGS.
25. BREAKAWAY FUSE HOLDERS SHALL BE USED WITH ALL BREAKAWAY BASES.
26. EXPOSED CONDUIT SHALL BE RIGID STEEL UNLESS OTHERWISE NOTED.
27. UNDERGROUND CONDUIT NOT LOCATED UNDERNEATH ROADWAYS OR DRIVEWAYS SHALL BE PVC SCHEDULE 40. CONDUIT INSTALLED UNDERNEATH ROADWAYS AND DRIVEWAYS SHALL BE GALVANIZED RIGID STEEL (GRS).
28. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY DIGGING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
29. LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINARIES, POLES, LIGHTING CONTROL PANEL, AND ALL OTHER ELECTRICAL EQUIPMENT.
30. CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT.
31. ALL ELECTRICAL MATERIALS, SUCH AS CONDUIT, CABLES WIRES AND JUNCTION BOXES, SHALL BE NEW U.L. LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND THE AMERICAN NATIONAL STANDARDS INSTITUTE.
32. ALL CONDUITS, WIRES, CIRCUIT BREAKERS, FUSES, GROUND RODS, AND GROUND CONDUCTORS SHALL MEET GDOT'S STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH GDOTS'S QUALIFIED PRODUCTS LIST (QPL). CONTRACTOR IS RESPONSIBLE TO VERIFY WITH GDOT.
33. THE LIGHTING DESIGN CRITERIA SHALL CONFORM TO "PEDESTRIAN & STREETSCAPE GUIDE" ISSUED BY GEORGIA DEPARTMENT OF TRANSPORTATION AND GEORGIA GUIDEBOOK FOR PEDESTRIAN PLANNING.

GENERAL ABBREVIATIONS

AR	ALARM RELAY	INTLK	INTERLOCK	PVC	POLYVINYL CHLORIDE
AS	AMMETER SELECTOR SWITCH	INST	INSTANTANEOUS	PWR	POWER
A, AMP	AMP(S), AMPERE(S)	INSTR	INSTRUMENT		
AC	ALTERNATING CURRENT	I/O	INPUT-OUTPUT	QSH	SHEAR PIN LIMIT SWITCH
AFF	ABOVE FINISHED FLOOR				
AHAP	AS HIGH AS POSSIBLE	JB	JUNCTION BOX	RCPT	RECEPTACLE
AIC	AMPS INTERRUPTING CAPACITY, SYMM.			RCT	REACTOR
AL	ALUMINUM	KV	KILOVOLT	REF	REFERENCE REQ'D REQUIRED
AT	AMPERE TRIP	KVA	KILOVOLT-AMPERE	RMS	ROOT MEAN SQUARE
AF	AMPERE FRAME	KVAR	KILOVOLT-AMPERE REACTIVE	RTD	RESISTANCE TEMPERATURE DETECTOR
AUTO	AUTOMATIC	KW	KILOWATT		
AUX	AUXILIARY	KWH	KILOWATT-HOUR	SCH	SCHEDULE
AWG	AMERICAN WIRE GAUGE	KAIC	KILO AMPERE INTERRUPTING CURRENT	SE	SPEED SENSOR
				SEC	SECONDARY
BC	BARE COPPER CONDUCTOR	L-O-R	LOCAL-OFF-REMOTE	SEL	SELECTOR
BKR	BREAKER	L	LONG	SER	SERVICE ENTRANCE RATED
		LC	LIGHTING CONTACTOR	SPDT	SINGLE POLE DOUBLE THROW
C	CONDUCTOR/CONTACTOR	LCP	LOCAL CONTROL PANEL	SPEC	SPECIFICATION
CB	CIRCUIT BREAKER	LED	LIGHTING STANDARD	SPHTR	MOTOR SPACE HEATER
CJB	CIRCUIT JUNCTION BOX	LP	LIGHTING PANEL	SPKR	SPEAKER
CKT	CIRCUIT	LOS	LOCK-OUT STOP	SSL	SPEED SWITCH
CLG	CEILING	LSIG	LONG, SHORT, INSTANTANEOUS TRIP SETTING	SUB	SUBSTATION
CR	CONTROL RELAY		AND GROUND FAULT PROTECTION	SW	SWITCH
CND	CONDUIT	LSL	LEVEL SWITCH LOW	SYMM	SYMMETRICAL
CONC	CONCRETE	LSO	LIMIT SWITCH OPEN	SYS	SYSTEM
CS	CONTROL SWITCH	LSC	LIMIT SWITCH CLOSED	SV	SOLENOID OPERATED VALVE
CONT	CONTROL	LTG	LIGHTING	SPB	SIGNAL PULL BOX
CPT	CONTROL POWER TRANSFORMER	LV	LOW VOLTAGE		
CT	CURRENT TRANSFORMER	LSH	LEVEL SWITCH HIGH	TB	TERMINAL BOX
CU	COPPER	M	MOTOR CONTACTOR	TEL	TELEPHONE
		mA	MILLIAMPERE	TEMP	TEMPERATURE
D	DIAMETER	MAX	MAXIMUM	TFR	TRANSFORMER
DB	DUCT BANK	MCB	MAIN CIRCUIT BREAKER	TH	THERMOSTAT
DC	DIRECT CURRENT	MCC	MOTOR CONTROL CENTER	TJB	TERMINAL JUNCTION BOX
DET	DETAIL	MCP	MOTOR CONTROL PANEL/MOTOR CIRCUIT	TSH	TEMPERATURE SWITCH HIGH
DIAG	DIAGRAM		PROTECTOR	TV	TELEVISION
DPSH	DIFFERENTIAL PRESSURE SWITCH	MECH	MECHANICAL	TYP	TYPICAL
DS	DISCONNECT SWITCH	MFR	MANUFACTURE(R)	TR	TIMING RELAY
DWG	DRAWING	MH	MANHOLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
		MIC	MICROPHONE	TSP	TWISTED SHIELDED PAIR
EA	EACH	MIN	MINIMUM		
EC	ELECTRICAL CONTRACTOR	MISC	MISCELLANEOUS	UG	UNDERGROUND
EF	EXHAUST FAN	mM	MILLIMETER	UH	UNIT HEATER
EL	ELEVATION	mV	MILLIVOLT	UON	UNLESS OTHERWISE NOTED
ELEC	ELECTRIC(AL)	MCM	MILLI CIRCULAR MILLS		
EMER	EMERGENCY	MOP	MOTOR OPERATOR PANEL	V	VOLT
ENCL	ENCLOSURE/ENCLOSED	MPR	MOTOR PROTECTION RELAY	VA	VOLT AMPERE
EP	EXPLOSION PROOF EQUIP.	MCB	MAIN CIRCUIT BREAKER	VAR	VOLT AMPERE REACTIVE
EX, E	EXISTING	MTR	MOTOR	VFD	VARIABLE FREQUENCY DRIVE
EJB	ELECTRICAL JUNCTION BOX	MVS	MEDIUM VOLTAGE STARTER	VSH	VIBRATION SWITCH
FCP	FURNISHED WITH EQUIPMENT PANEL	N/A	NOT APPLICABLE	W	WATT, WIRE, WIDE
FDR	FEEDER	NC	NORMALLY CLOSED	W/	WITH
FLA	FULL LOAD AMPS	NEUT,N	NEUTRAL	W/O	WITHOUT
FPP	FIBER OPTIC DISTRIBUTION PANEL	NIC	NOT IN CONTRACT	WE	WEIGHT LOAD CELL
FS	FLOW SWITCH	NO	NORMALLY OPEN	WIT	WEIGHT INDICATING TRANSMITTER
FU	FUSE	NOM	NOMINAL	WP	WEATHERPROOF
FUT	FUTURE	NP	NAMEPLATE		
FVNR	FULL VOLTAGE NON-REVERSING	NTS	NOT TO SCALE	XL	WARNING HORN/LIGHT
FVR	FULL VOLTAGE REVERSING			XT	ANEMOMETER
		OC	ON CENTER		
GALV	GALVANIZED	OD	OUTSIDE DIAMETER	ZS	POSITION (LIMIT) SWITCH
GEN	GENERATOR	OH	OVERHEAD	ZSO	POSITION (LIMIT) SWITCH OPEN
GFR	GROUND FAULT RELAY	OL's	OVERLOADS	ZSC	POSITION (LIMIT) SWITCH CLOSED
GRD	GROUND	OT	OIL TIGHT	ZT	POSITION TRANSMITTER
GRS	GALVANIZED RIGID STEEL				
		P	POLE		
H	HIGH	PA	PUBLIC ADDRESS		
HGT	HEIGHT	PB	PUSHBUTTON, PULLBOX		
HH	HANDHOLE	PE	PHOTO ELECTRIC CELL		
HID	HIGH INTENSITY DISCHARGE	PF	POWER FACTOR		
HP	HORSEPOWER	PH	PHASE		
HS	HAND STATION (SWITCH)	PJB	POWER JUNCTION BOX		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PLC	PROGRAMMABLE LOGIC CONTROLLER		
HZ	HERTZ (CYCLES PER SECOND)	PNL	PANEL		
HOA	HAND/OFF/AUTO	POS	POINT OF SERVICE		
HOR	HAND/OFF/REVERSE	PP	POWER PANEL		
HMH	HIGH VOLTAGE MANHOLE	PR	PAIR		
		PRI	PRIMARY		
ID	INSIDE DIAMETER	PS	PRESSURE SWITCH		
IMC	INDIVIDUAL MOTOR CONTROLLER	PT	POTENTIAL TRANSFORMER		

GEORGIA REGISTERED No. 32613 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

QK4
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

ROCKDALE COUNTY

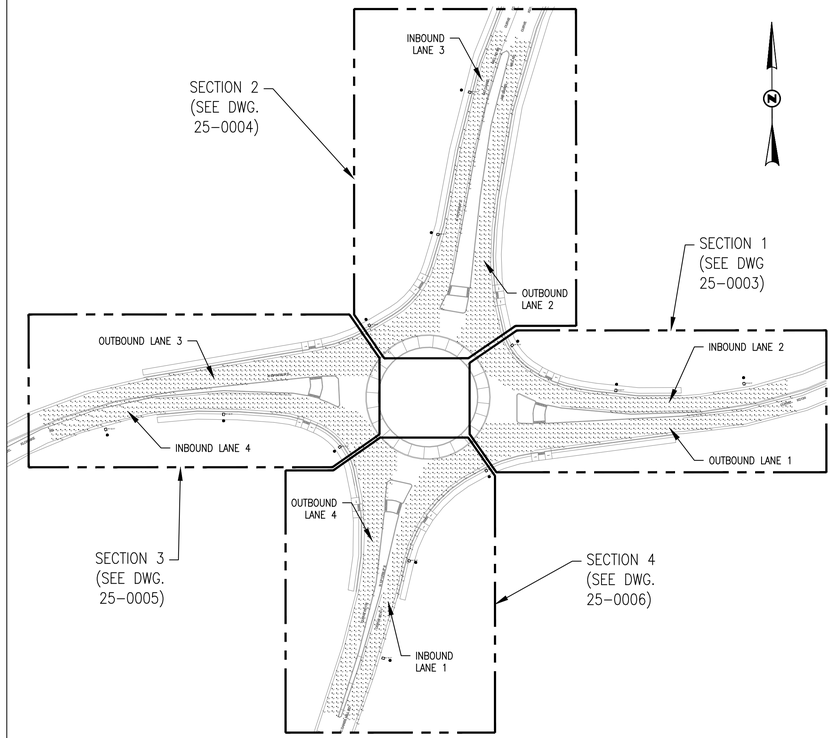
DEPARTMENT OF TRANSPORTATION

ELECTRICAL NOTES

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0001

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 LOCATION LEGEND

SCALE: 1/64" = 1'-0"

Voltage drop calculation for Branch PNL LP-1 CKT. 1										
CKT. FROM	CKT. TO	NO. RUNS	PH CKT	CONDUCTOR SIZE	CIRCUIT VOLTAGE	CKT AMPS	RUN AMPS	CIRCUIT LENGTH	VOLT DROP	VOLT %DROP
PNL LP-1	CKT. LIGHT 5	1	1	8	120	4.6A	4.6	200	1.42	1.19%
CKT. LIGHT 5	CKT. LIGHT 1	1	1	10	120	2.3A	2.3	200	1.13	0.94%
CKT. LIGHT 1	CKT. LIGHT 8	1	1	10	120	1.5A	1.5	160	0.60	0.50%
CKT. LIGHT 8	CKT. LIGHT 9	1	1	10	120	0.8A	0.8	160	0.30	0.25%
								TOTAL VD DROP %		2.88%

Voltage drop calculation for Branch PNL LP-1 CKT. 2										
CKT. FROM	CKT. TO	NO. RUNS	PH CKT	CONDUCTOR SIZE	CIRCUIT VOLTAGE	CKT AMPS	RUN AMPS	CIRCUIT LENGTH	VOLT DROP	VOLT %DROP
PNL LP-1	CKT. LIGHT 2	1	1	10	120	4.6A	4.6	80	0.90	0.75%
CKT. LIGHT 2	CKT. LIGHT 4	1	1	10	120	2.3A	2.3	200	1.13	0.94%
CKT. LIGHT 4	CKT. LIGHT 3	1	1	12	120	1.5A	1.5	160	0.96	0.80%
CKT. LIGHT 3	CKT. LIGHT 7	1	1	12	120	0.8A	0.8	160	0.48	0.40%
								TOTAL VD DROP %		2.89%

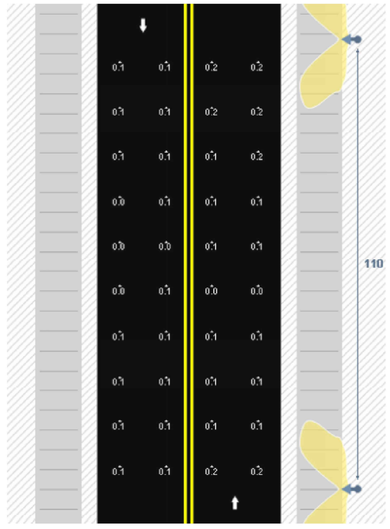
2 VOLTAGE DROP CALCULATIONS

PHOTOMETRIC STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
INBOUND LANE #1	+	1.2 FC	1.8 FC	0.4 FC	4.5:1	3.0:1
INBOUND LANE #2	+	1.2 FC	1.7 FC	0.7 FC	2.4:1	1.7:1
INBOUND LANE #3	+	1.1 FC	1.7 FC	0.4 FC	4.3:1	2.8:1
INBOUND LANE #4	+	1.2 FC	1.7 FC	0.5 FC	3.4:1	2.4:1
OUTBOUND LANE #1	+	0.9 FC	1.7 FC	0.5 FC	3.4:1	1.8:1
OUTBOUND LANE #2	+	0.8 FC	1.7 FC	0.3 FC	5.7:1	2.7:1
OUTBOUND LANE #1	+	1.0 FC	1.7 FC	0.4 FC	4.3:1	2.5:1
OUTBOUND LANE #2	+	1.0 FC	1.7 FC	0.3 FC	5.7:1	3.3:1

3 PHOTOMETRIC CALCULATIONS

Visual - Roadway Tool www.Visual-3D.com



VeilingLuminance

Calculation Results

Luminance	Left	Right		Illuminance	Left	Right		Sidewalk	Left	Right	
Average:	0.8	1.1	cd/m²	Average:	1.4	1.6	fc	Average:	1	1.4	fc
Max:	0.9	1.4	cd/m²	Max:	1.9	2.1	fc	Min	1	1.4	fc
Min	0.6	0.9	cd/m²	Min	1.1	1.2	fc	Ave/Min:	1.1	1.4	
Ave/Min:	1.4	1.2		Ave/Min:	1.3	1.4		Ev Min:	0.1	0.1	fc
Max/Min:	1.6	1.6		Max/Min:	1.8	1.8		**Bikelane**			
Lv Ratio:	0.2	0.2						Average:	--	--	fc
STV:	2.9	2.4						Min	--	--	fc
								Ave/Min:	--	--	
								Ev Min:	--	--	fc

6 VEILING LUMINANCE CALCULATIONS

LIGHTING/POLE SCHEDULE

SYMBOL	DESCRIPTION	LAMP / VOLTAGE	POLE	LIGHT LOSS FACTOR
A THREE (3) LIGHT OPTIONS	AMERICAN ELECTRIC LIGHTING AUTOBAHN WITH PHOTOCELL # ATB2-40BLEDE70-MVOLT-R3-BZ	120V/1PH	POLE # RSA-30-T20-DDB, 30 FOOT POLE ARM # AMACE-T20-US6-DDB, 6 FOOT	0.8
	TECHLIGHT LED COBRA HEAD WITH PHOTOCELL # LCBR-1-N-2-T3-B-1-BZ	120V/1PH	POLE # RSA-30-T20-DDB, 30 FOOT POLE ARM # AMACE-T20-US6-DDB, 6 FOOT	0.8
	QUATTRO LED COBRA HEAD WITH PHOTOCELL # COB100-L-GGC-45 LED/LEDF-120-BZTX-PA238-PTL	120V/1PH	POLE # RSA-30-T20-DDB, 30 FOOT POLE ARM # AMACE-T20-US6-DDB, 6 FOOT	0.8

4 LIGHTING & POLE SCHEDULE

New Light #	Caice Alignment ID	Alignment Name	Station	Offset	Direction	Caice Point #	Northing	Easting
A-1	KC58	NE Quadrant EOP	21+70.5	11'	RT	KC40341	1331397.3243	2324449.5333
A-2	KC60	SW Quadrant EOP	42+01	11'	RT	KC40344	1331298.9196	2324285.7341
A-3	KC57	SE Quadrant EOP	10+00.5	11'	RT	KC40343	1331199.3923	2324358.3901
A-4	KC57	SE Quadrant EOP	11+15	11'	RT	KC40342	1331276.1638	2324424.1806
A-5	KC59	NW Quadrant EOP	31+19.5	11'	RT	KC40345	1331416.8803	2324313.8887
A-6	KC59	NW Quadrant EOP	30+09.5	11'	RT	KC40346	1331494.5618	2324372.3209
A-7	KC50	McDaniel Mill Rd Baseline	98+30.5	23'	RT	KC40347	1331112.0339	2324335.4773
A-8	KC58	NE Quadrant EOP	20+61	11'	RT	KC40348	1331358.9706	2324536.5736
A-9	KC52	Reloc. Klondike Rd Baseline	514+96	29'	LT	KC40349	1331364.7040	2324651.5101
A-10	KC51	McDaniel Mill Rd SB	203+49.5	23'	LT	KC40350	1331622.1882	2324399.2325
A-11	KC60	SW Quadrant EOP	40+85	11'	RT	KC40351	1331326.1434	2324186.4928
A-12	KC52	Reloc. Klondike Rd Baseline	509+00.5	23'	RT	KC40352	1331313.4190	2324082.5418

5 STATION COORDINATE INFORMATION

TABLE 6:
RECOMMENDED VALUES FOR LOW PEDESTRIAN CONFLICT AREAS

MAINTAINED ILLUMINANCE VALUES FOR WALKWAYS			
	E(avg) (LUX/FC)	EV(min) (LUX/FC)	E(avg) / E(min)*
MEDIUM DENSITY RESIDENTIAL (2.1 TO 6.0 OR FEWER DWELLING UNITS PER ACRE)	4.0 / 0.4	1.0 / 0.1	4.0

E(avg) – MINIMUM MAINTAINED AVERAGE HORIZONTAL ILLUMINANCE AT PAVEMENT
E(min) – MINIMUM HORIZONTAL ILLUMINANCE AT PAVEMENT
EV(min) – MINIMUM VERTICAL ILLUMINANCE AT 1.5M ABOVE PAVEMENT
* – HORIZONTAL ONLY

7 DESIGN CRITERIA

GEORGIA REGISTERED No. 32813 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

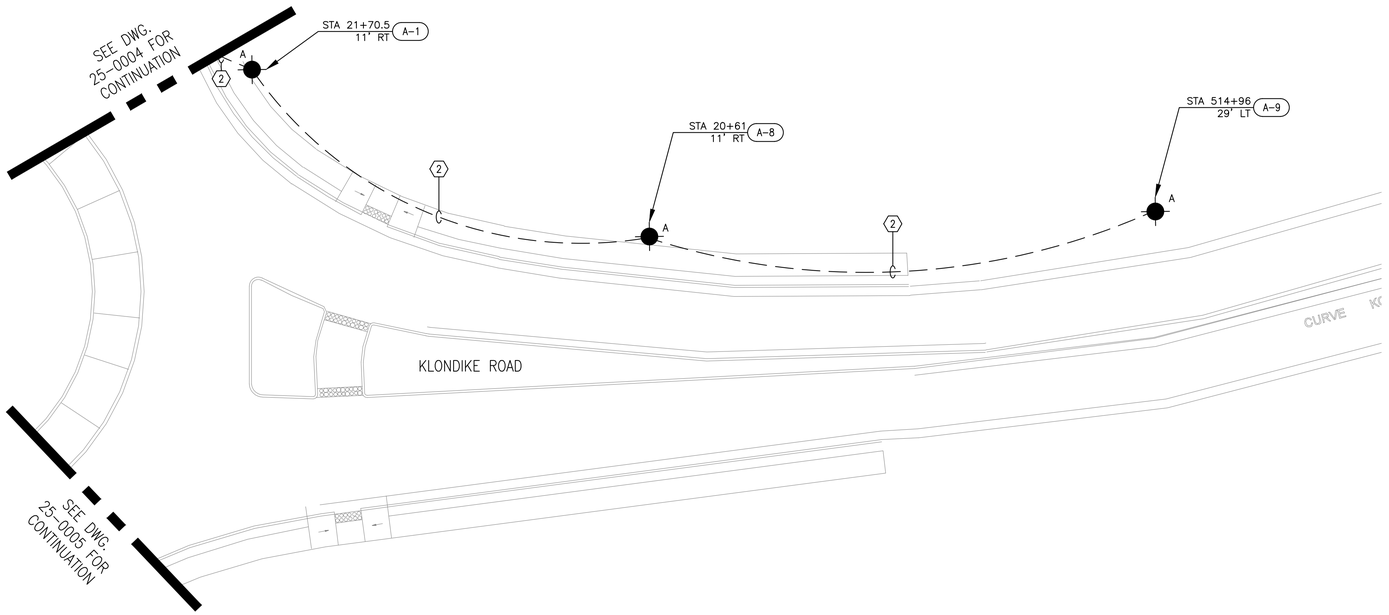
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 32 64 128 256
(IN FEET)
1/64 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

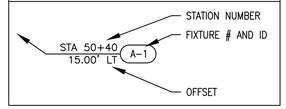
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
LEGEND, CALCULATIONS AND SCHEDULE
KLONDIKE RD/MCDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS
DRAWING No. 25-0002

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 ELECTRICAL LIGHTING PLAN – SECTION 1
SCALE: 1/16" = 1'-0"

FIXTURE TAG LEGEND



CONDUCTOR/CONDUIT SCHEDULE

1	2#12 & 1#12 GND IN 1"C
2	2#10 & 1#10 GND IN 1" C.
3	3#10 & 1#10 GND IN 1" C.
4	2#8 & 1#10 GND IN 1" C.

PANELBOARD LP-1

VOLTAGE (L-N):	120V		ENCLOSURE TYPE:	Nema 4X SS	
VOLTAGE (L-L):	240V		MOUNTING	SURFACE	
PHASES, WIRES:	1 ϕ 3 W		AIC RATING (A):	18000	
MINIMUM BUS CAPACITY (A):	200A		NOTES:	METER PANELBOARD COMBO	
MAIN O.C. DEVICE (A):	200A				

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (AMP) A	PHASE LOADS (AMP) B	POLE	TRIIP AMPS	DESCRIPTION	CKT NO
1	STREET LIGHTING	20	1	5	5	1	20	STREET LIGHTING	2
3	SPARE	20	1		0	1	20	SPARE	4
5	SPARE	20	1	0	0	1	20	SPARE	6
7	SPARE	20	1		0	1	20	SPARE	8
				CONNECTED LOAD PHASE TOTALS (AMP)					
				10	0				

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

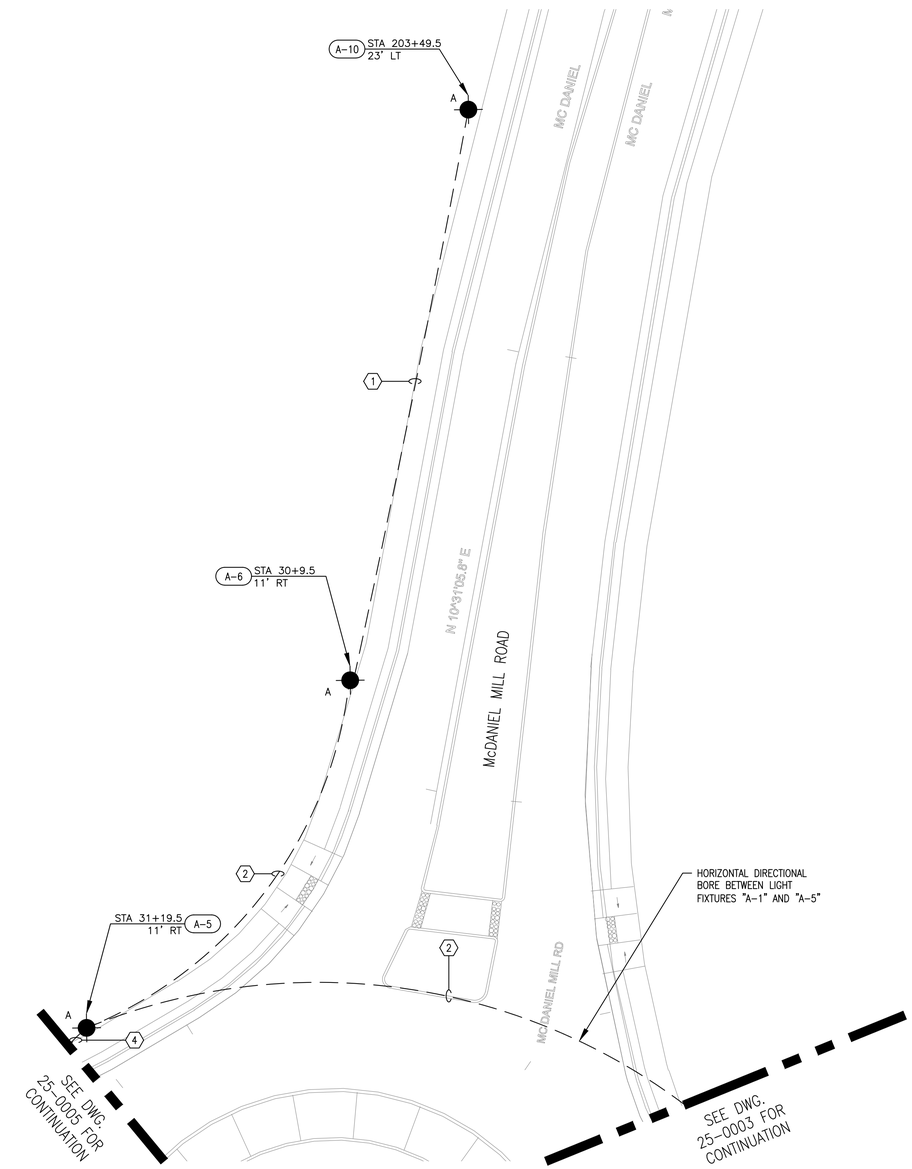
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 8 16 32 64
(IN FEET)
1/16 inch = 1 ft.

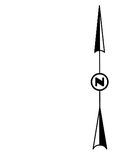
DATE	REVISION
12/16/16	ISSUED FOR REVIEW

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
ELECTRICAL LIGHTING PLAN – SECTION 1
KLONDIKE RD/MCDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS
DRAWING No. 25-0003

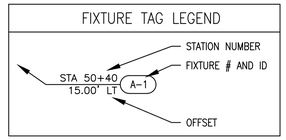
STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 ELECTRICAL LIGHTING PLAN – SECTION 2
SCALE: 1/16" = 1'-0"



FIXTURE TAG LEGEND



CONDUCTOR/CONDUIT SCHEDULE

1	2#12 & 1#12 GND IN 1"C
2	2#10 & 1#10 GND IN 1" C.
3	3#10 & 1#10 GND IN 1" C.
4	2#8 & 1#10 GND IN 1" C.

GEORGIA REGISTERED No. 22813 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE	PL
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR	

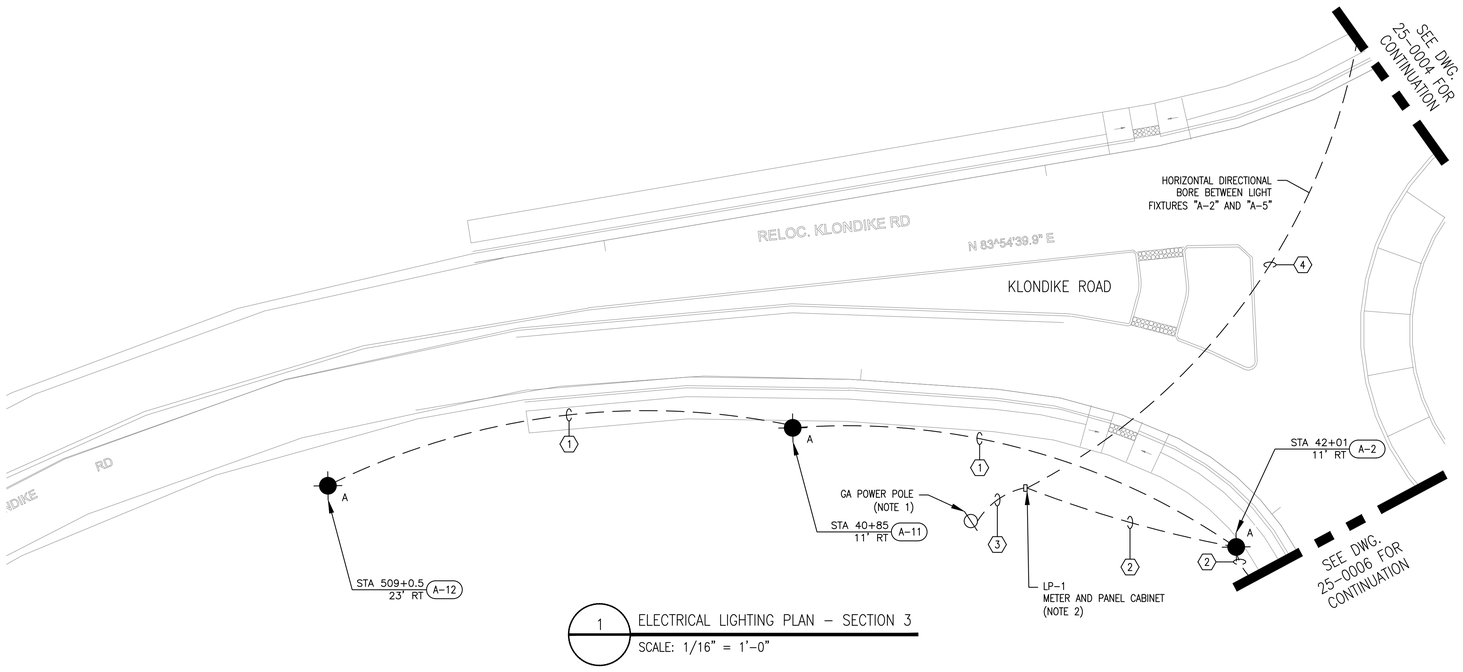
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 8 16 32 64
(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
ELECTRICAL LIGHTING PLAN – SECTION 2
KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS
DRAWING No. 25-0004

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 ELECTRICAL LIGHTING PLAN – SECTION 3
SCALE: 1/16" = 1'-0"

CONDUCTOR/CONDUIT SCHEDULE

1. 2#12 & 1#12 GND IN 1"C
2. 2#10 & 1#10 GND IN 1" C.
3. 3#3/0 & 1#6 GND IN 2" C.
4. 2#8 & 1#10 GND IN 1" C.

NOTES:

1. UTILITY SERVICE WILL BE FED FROM EXISTING POWER POLE AS SHOWN. GA POWER IS RESPONSIBLE TO BRING POWER TO THE SITE; CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH BRINGING UTILITY SERVICE TO NEW LOCATION.
2. CONTRACTOR SHALL COORDINATE EXACT PANELBOARD LOCATION WITH CITY. POWER SERVICE WILL BE FED FROM EXISTING POWER POLE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH BRINGING POWER SERVICE TO THE NEW LOCATION. SEE DETAIL "1 & 3" ON DWG. 25-0011 FOR ELECTRICAL RISER DIAGRAM AND SERVICE POINT DETAIL FOR MORE INFORMATION. SEE PANELBOARD SCHEDULE ON THIS DWG. FOR FURTHER DETAILS.
3. CONTRACTOR SHALL PROVIDE LIGHT FIXTURE TYPE "A" (SEE DETAIL "4" ON DWG. 25-0002 FOR LIGHTING AND POLE SCHEDULE) IN LOCATIONS AS SHOWN ON PLAN DRAWINGS. SEE DETAIL "1 & 2" ON DWG. 25-0012 FOR POLE AND FOUNDATION BASE INSTALLATION DETAILS. COORDINATE ACCESS PANEL ORIENTATION IN THE FIELD.

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

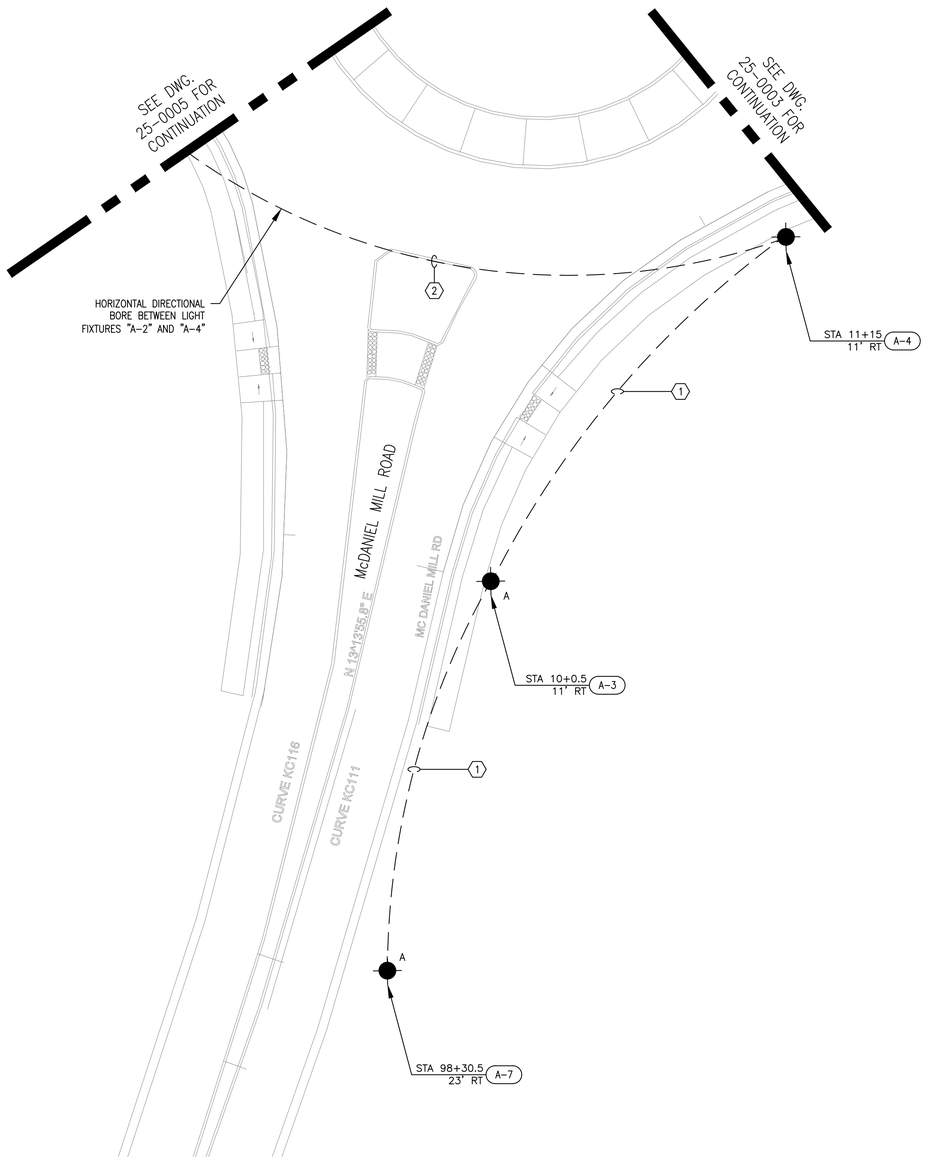
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 8 16 32 64
(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

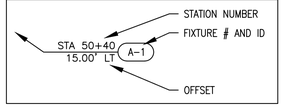
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
ELECTRICAL LIGHTING PLAN – SECTION 3
KLONDIKE RD/MCDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS
DRAWING No. 25-0005

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 ELECTRICAL LIGHTING PLAN – SECTION 4
SCALE: 1/16" = 1'-0"

FIXTURE TAG LEGEND



CONDUCTOR/CONDUIT SCHEDULE

1. 2#12 & 1#12 GND IN 1"C
2. 2#10 & 1#10 GND IN 1" C.
3. 3#10 & 1#10 GND IN 1" C.
4. 2#8 & 1#10 GND IN 1" C.

PROPERTY AND EXISTING R/W LINE	PL	BEGIN LIMIT OF ACCESS.....BLA	
REQUIRED R/W LINE		END LIMIT OF ACCESS.....ELA	
CONSTRUCTION LIMITS	C F	LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W AND LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR	
EASEMENT FOR CONSTR OF DRIVES			

• Engineering
• Planning

3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE

0 8 16 32 64

(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

GEORGIA REGISTERED No. 22613 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

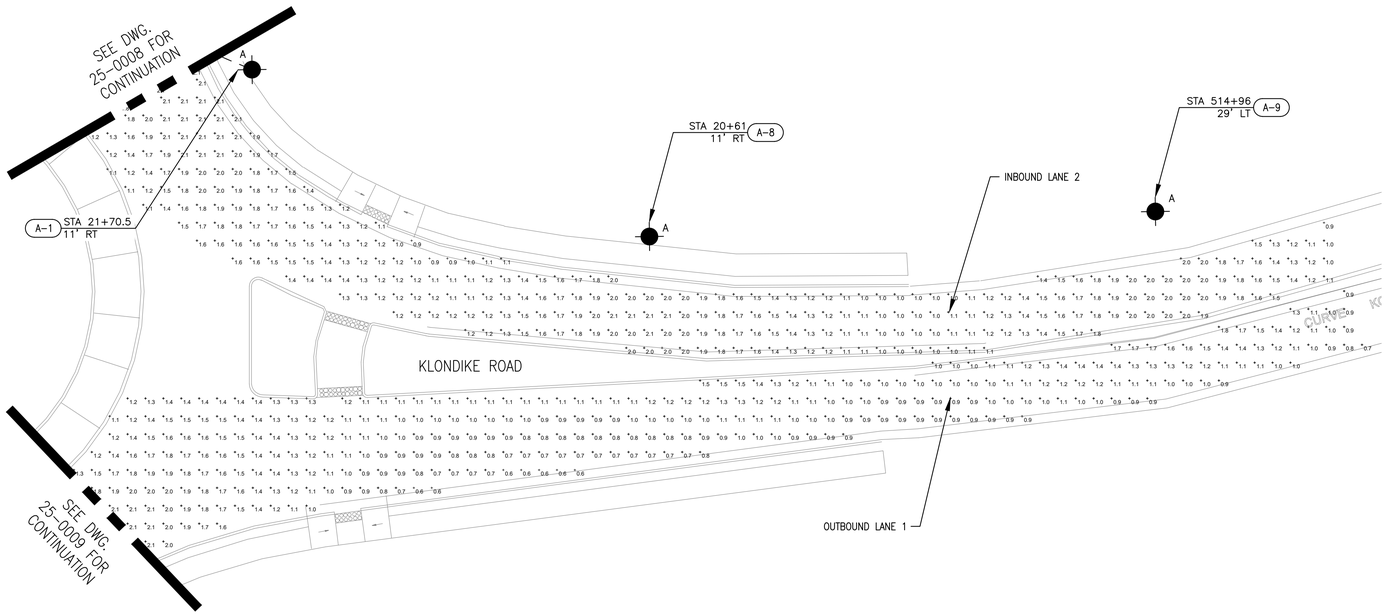
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

ELECTRICAL LIGHTING PLAN – SECTION 4

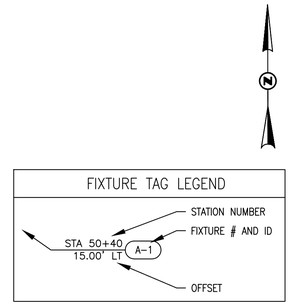
KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0006

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 PHOTOMETRIC PLAN – SECTION 1
SCALE: 1/16" = 1'-0"



PHOTOMETRIC STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
INBOUND LANE #2	+	1.2 FC	1.7 FC	0.7 FC	2.4:1	1.7:1
OUTBOUND LANE #1	+	0.9 FC	1.7 FC	0.5 FC	3.4:1	1.8:1

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 8 16 32 64
(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALEC ZAYCHIK No. 28243

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

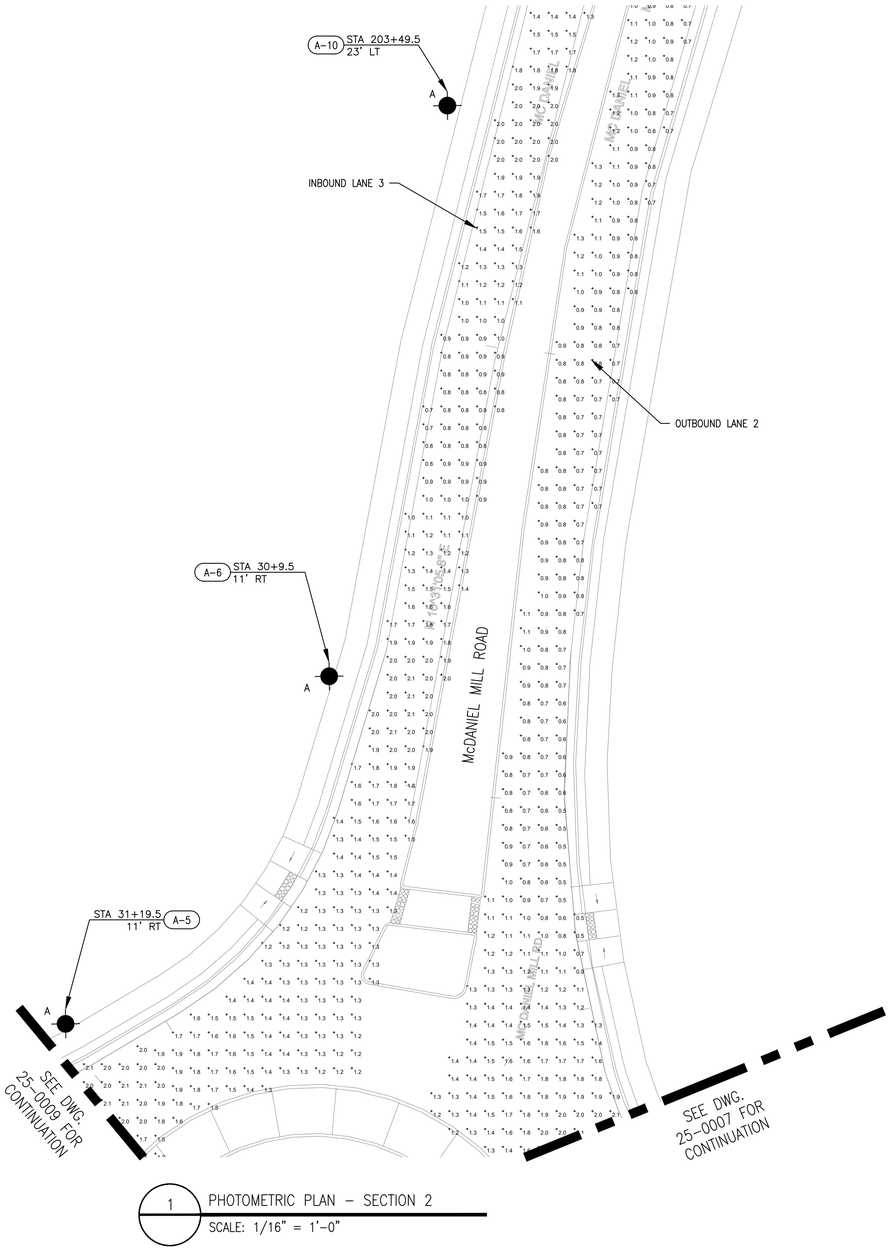
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

PHOTOMETRIC PLAN – SECTION 1

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

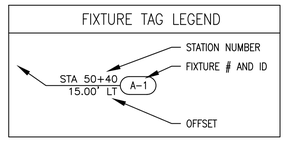
DRAWING No. 25-0007

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 PHOTOMETRIC PLAN – SECTION 2
SCALE: 1/16" = 1'-0"

FIXTURE TAG LEGEND



PHOTOMETRIC STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
INBOUND LANE #3	+	1.1 FC	1.7 FC	0.4 FC	4.3:1	2.8:1
OUTBOUND LANE #2	+	0.8 FC	1.7 FC	0.3 FC	5.7:1	2.7:1

GEORGIA REGISTERED No. 32613 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-9685

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

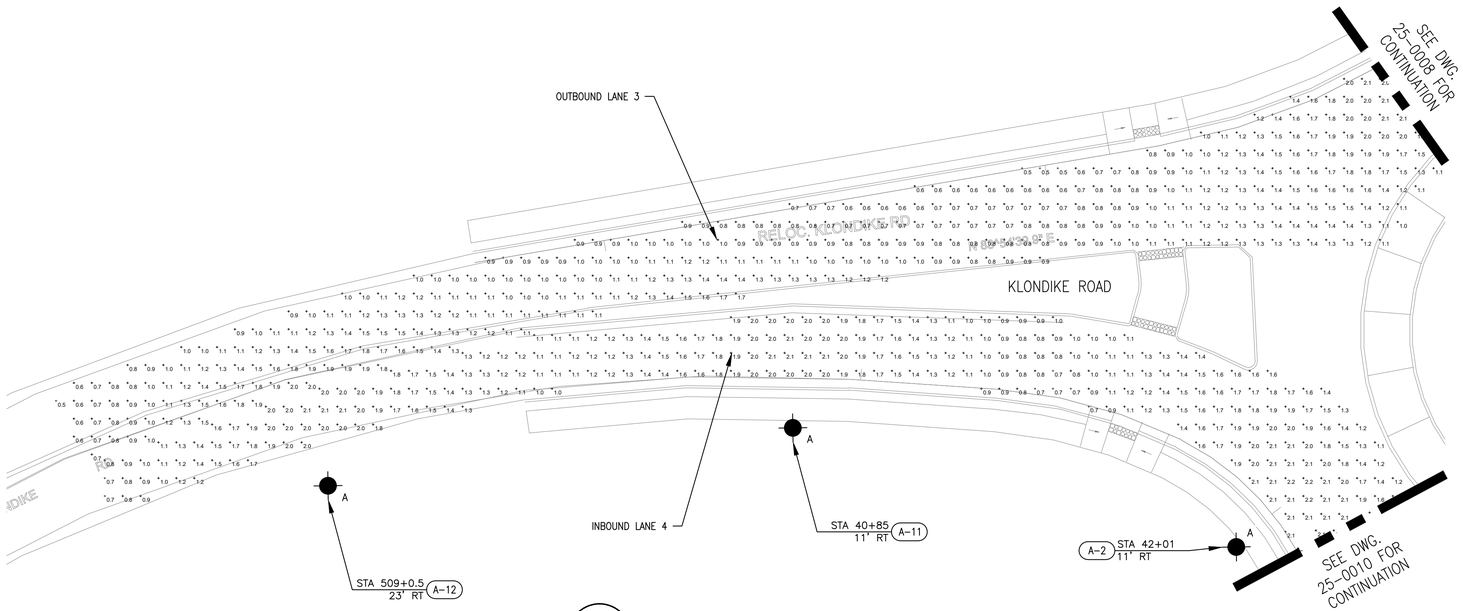
• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE
0 8 16 32 64
(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

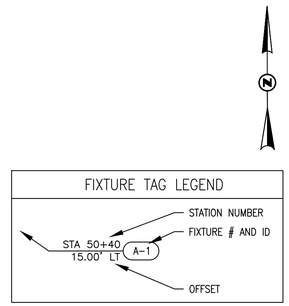
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION
PHOTOMETRIC PLAN – SECTION 2
KLONDIKE RD/MCDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS
DRAWING No. 25-0008

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 PHOTOMETRIC PLAN – SECTION 3

SCALE: 1/16" = 1'-0"



PHOTOMETRIC STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
INBOUND LANE #4	+	1.2 FC	1.7 FC	0.5 FC	3.4:1	2.4:1
OUTBOUND LANE #3	+	1.0 FC	1.7 FC	0.4 FC	4.3:1	2.5:1

GEORGIA REGISTERED ENGINEER ALEC ZAYCHIK NO. 30513 PROFESSIONAL

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE

0 8 16 32 64

(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

ROCKDALE COUNTY

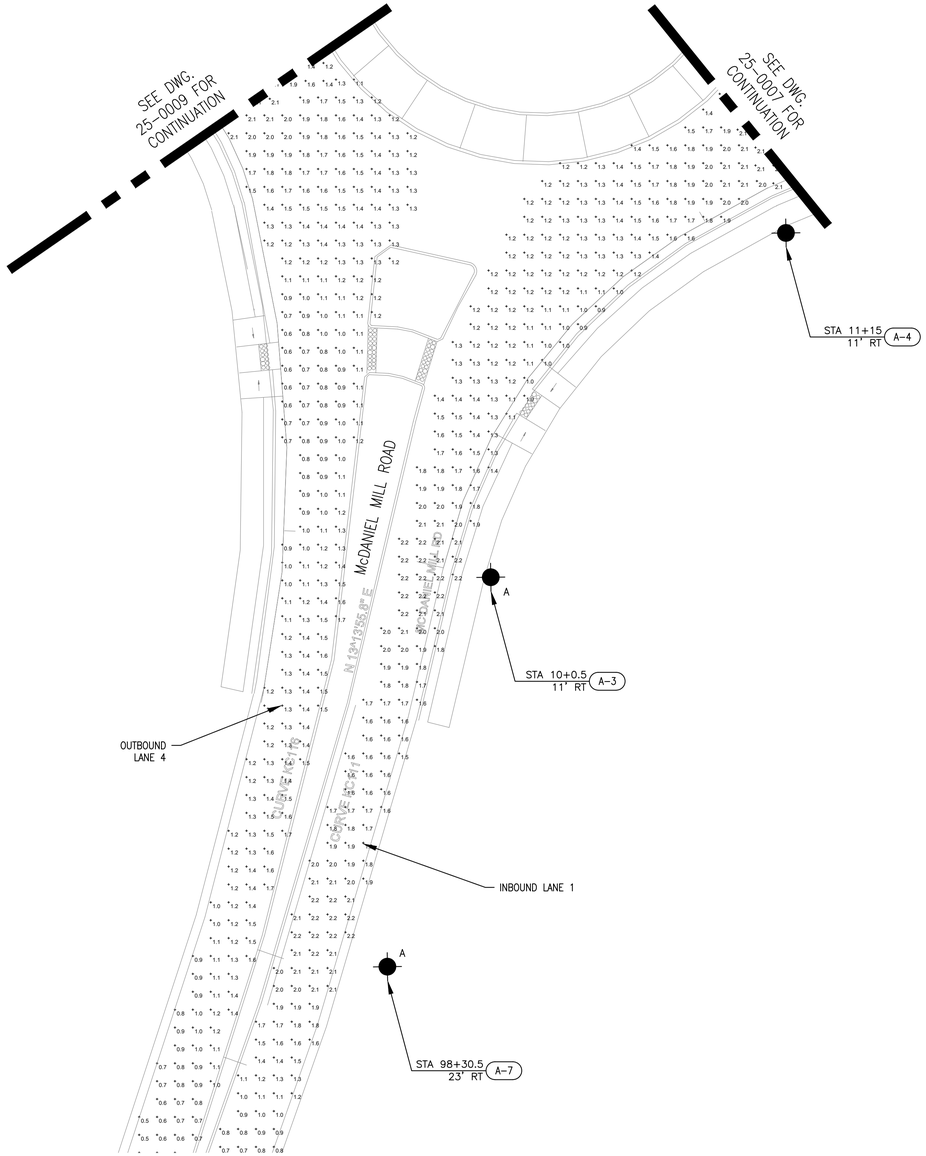
DEPARTMENT OF TRANSPORTATION

PHOTOMETRIC PLAN – SECTION 3

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0009

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1 PHOTOMETRIC PLAN – SECTION 4

SCALE: 1/16" = 1'-0"

PHOTOMETRIC STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
INBOUND LANE #1	+	1.2 FC	1.8 FC	0.4 FC	4.5:1	3.0:1
OUTBOUND LANE #4	+	1.0 FC	1.7 FC	0.3 FC	5.7:1	3.3:1

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

• Engineering
• Planning

3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

GRAPHIC SCALE

0 8 16 32 64

(IN FEET)
1/16 inch = 1 ft.

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

GEORGIA REGISTERED No. 22613 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

ROCKDALE COUNTY

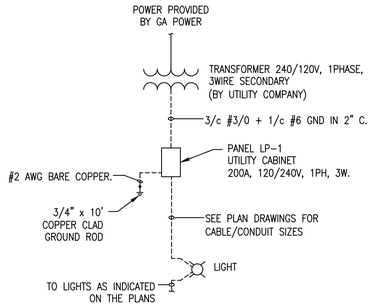
DEPARTMENT OF TRANSPORTATION

PHOTOMETRIC PLAN – SECTION 4

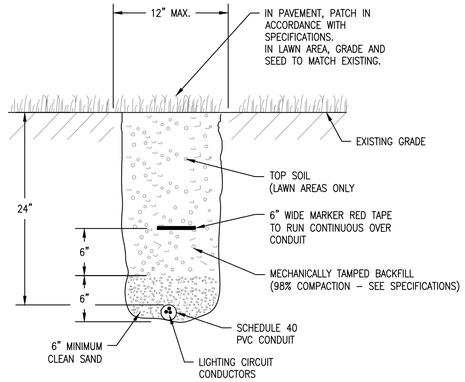
KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0010

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



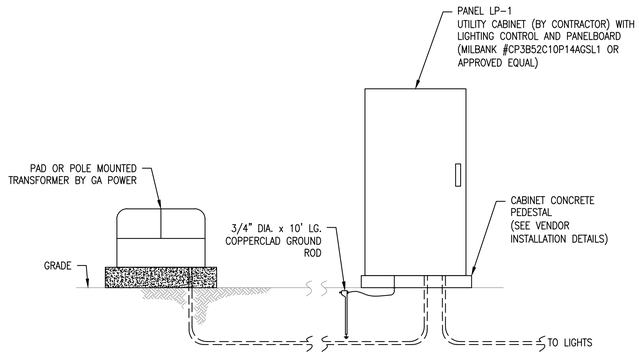
1 ELECTRICAL RISER DIAGRAM



NOTE:

WHERE MORE THAN ONE CONDUIT IS INSTALLED IN THE TRENCH, PROVIDE THE PROPER MARKER TAPE OVER EACH CONDUIT.

2 SITE LIGHTING TRENCH DETAIL
N.T.S.



3 SERVICE POINT DETAIL

Units	Description	Quantity
LF	CABLE, TP XHHW, AGW NO 12	800
LF	CABLE, TP XHHW, AGW NO 10	2800
LF	CABLE, TP XHHW, AGW NO 8	200
LF	CABLE, TP XHHW, AGW NO 3/0	30
CY	CLASSS B CONCRETE, INCL REINF STEEL	30
LF	CONDUIT, NONMETAL, TP 2, 1 IN	1800
LF	DIRECTIONAL BORE	400
CY	UNCLASS EXCAV	666.6
CY	FOUND BKFILL MATL, TP II	666.6
LF	CONDUIT, RIGID, 3/4 IN	350
EA	ELECTRICAL JUNCTION BOX	14
EA	ELECTRICAL POWER SERVICE ASSEMBLE (UNDERGROUND SERVICE POINT)	1
EA	POWER SERVICE CABINET	1
LS	MAIN SERVICE PICK UP POINT	1
LF	CONDUIT, NONMETL, TP 2, 2 IN	100
LF	CONDUIT, NONMETL, TP 1 - POWER SERVICE, 2 IN	100
EA	LIGHTING STD, 30' FT MH, 6 FT ARM	12
EA	LUMINAIRE BRACKET ARM, 6 FT ARM	12
EA	LUMINAIRE, TP A, LED	12

ALL QUANTITIES ARE ESTIMATES, CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS.

4 ELECTRICAL EQUIPMENT SUMMARY ESTIMATE

GEORGIA REGISTERED No. 22813 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

DATE	REVISION
12/16/16	ISSUED FOR REVIEW
11/20/18	GDOT PAY ITEM UPDATE

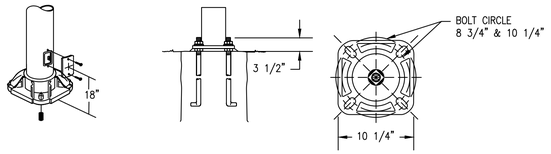
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INSTALLATION DETAILS

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0011

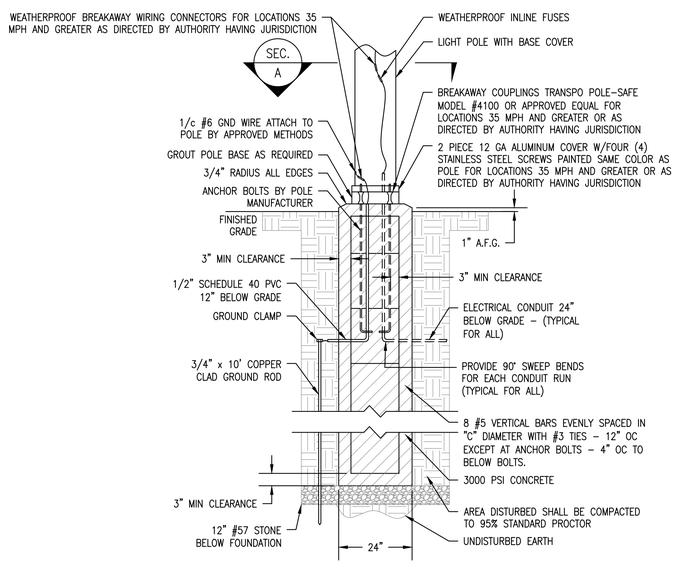
STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)

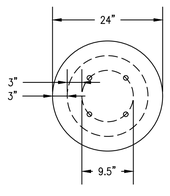


NOTE:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH VENDOR DOCUMENTATION AND ADJUST ACCORDINGLY.

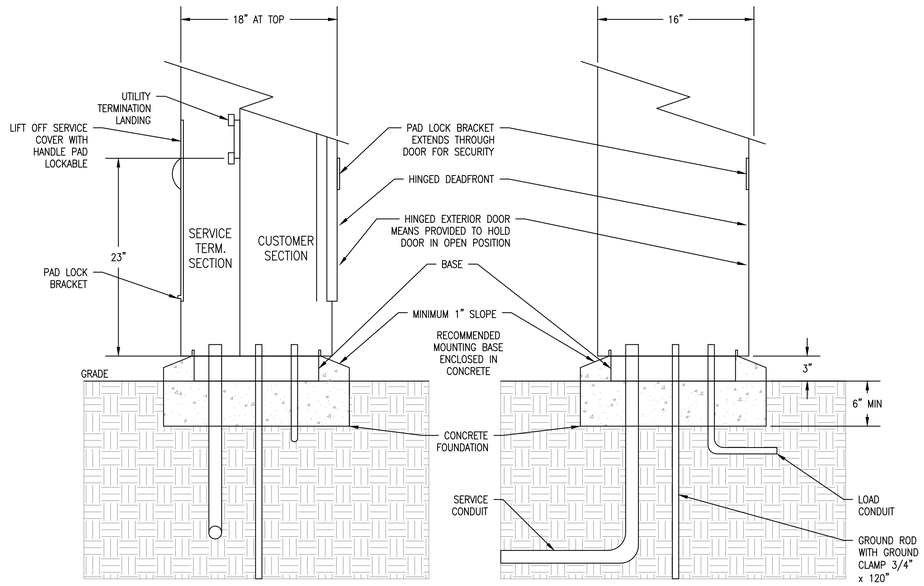
1 POLE BASE DETAILS
N.T.S.

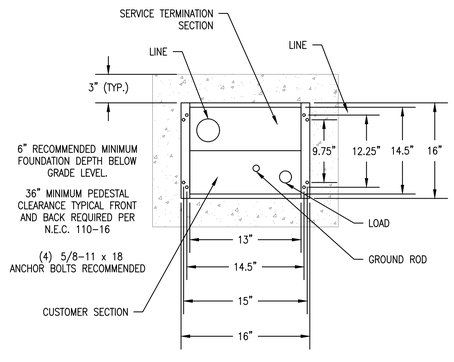




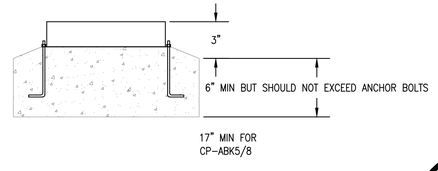
SECTION A–A

2 FOUNDATION BASE DETAILS
N.T.S.





3 UTILITY CABINET DETAILS
N.T.S.



OPTIONAL MOUNTING
BASE MOUNTED WITH ANCHOR BOLTS.

GEORGIA REGISTERED No. 29813 PROFESSIONAL ENGINEER ALEC ZAYCHIK

EDEC, INC.
3069 PEACHTREE IND. BLVD.
SUITE 110
DULUTH, GEORGIA 30097
TEL. (770) 493-8685

PROPERTY AND EXISTING R/W LINE — PL
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION OF TEMPORARY TRAFFIC DETOUR

• Engineering
• Planning
3169 Holcomb Bridge Road
Suite 455
Norcross, Georgia 30071
(404) 329-5900

DATE	REVISION
12/16/16	ISSUED FOR REVIEW

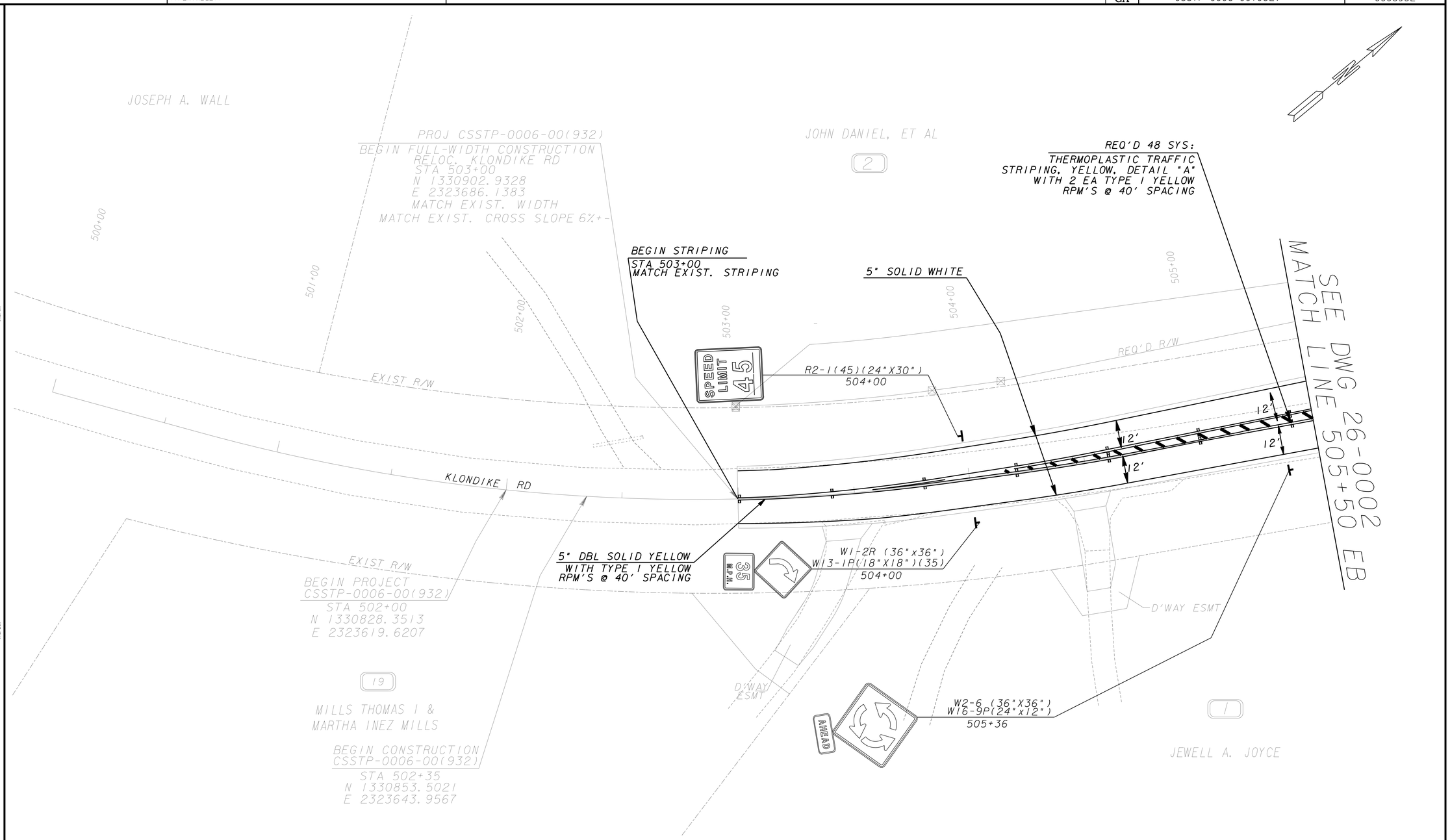
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

INSTALLATION DETAILS

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 25-0012

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET

0 20 40 80

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

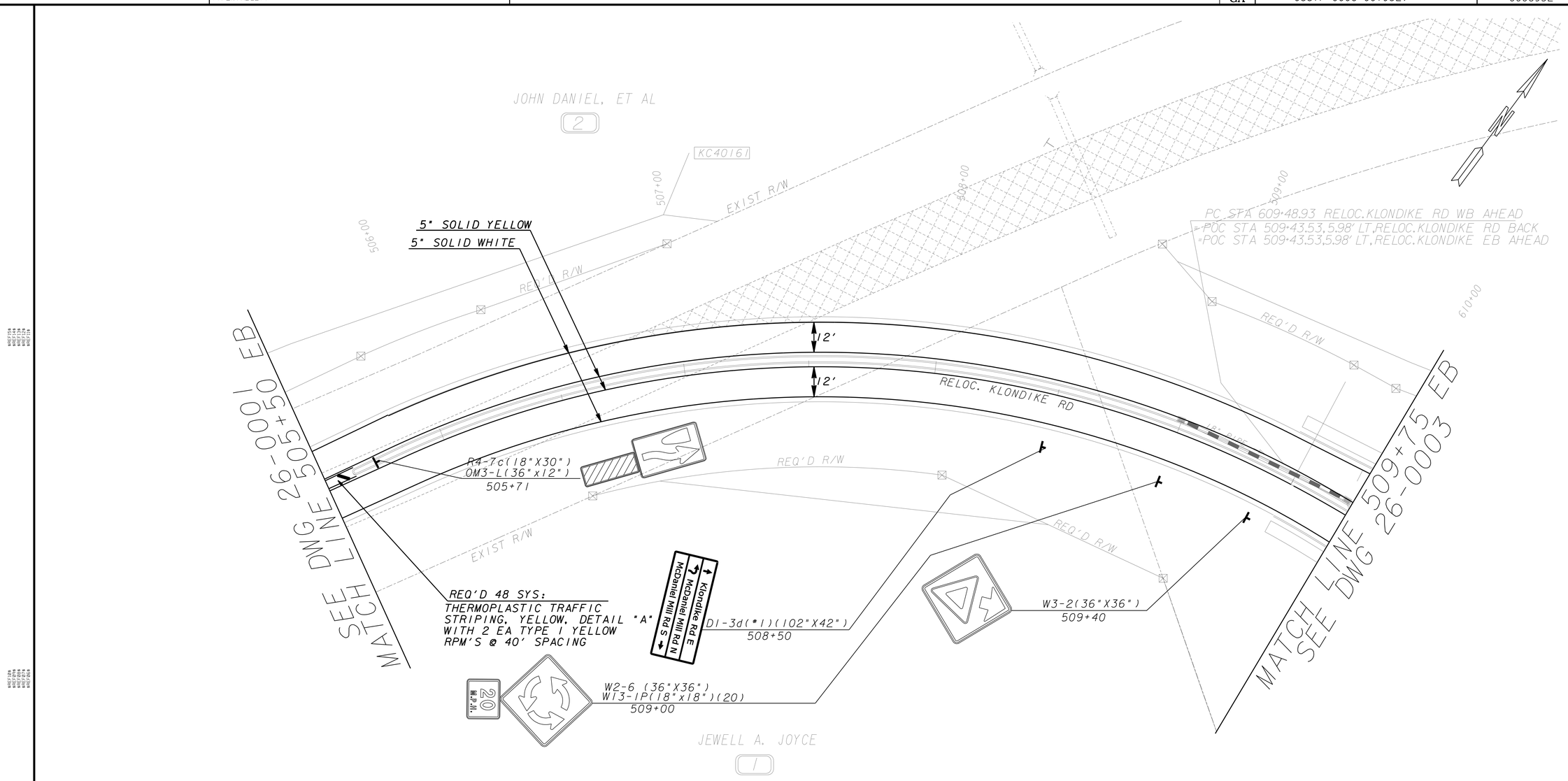
SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0001

3/1/2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET

0 20 40 80

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

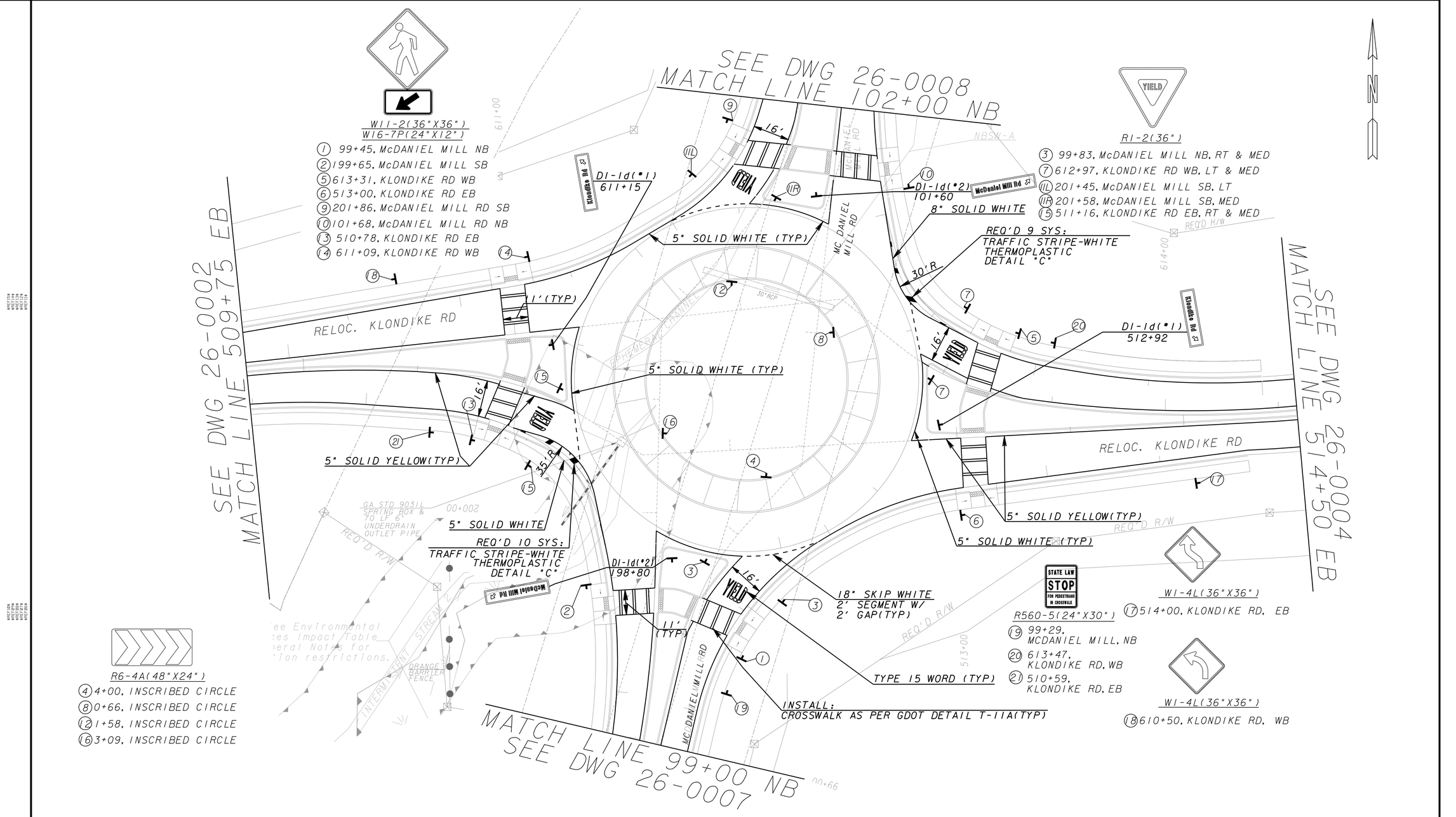
SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0002

3/1/2007 GPLN

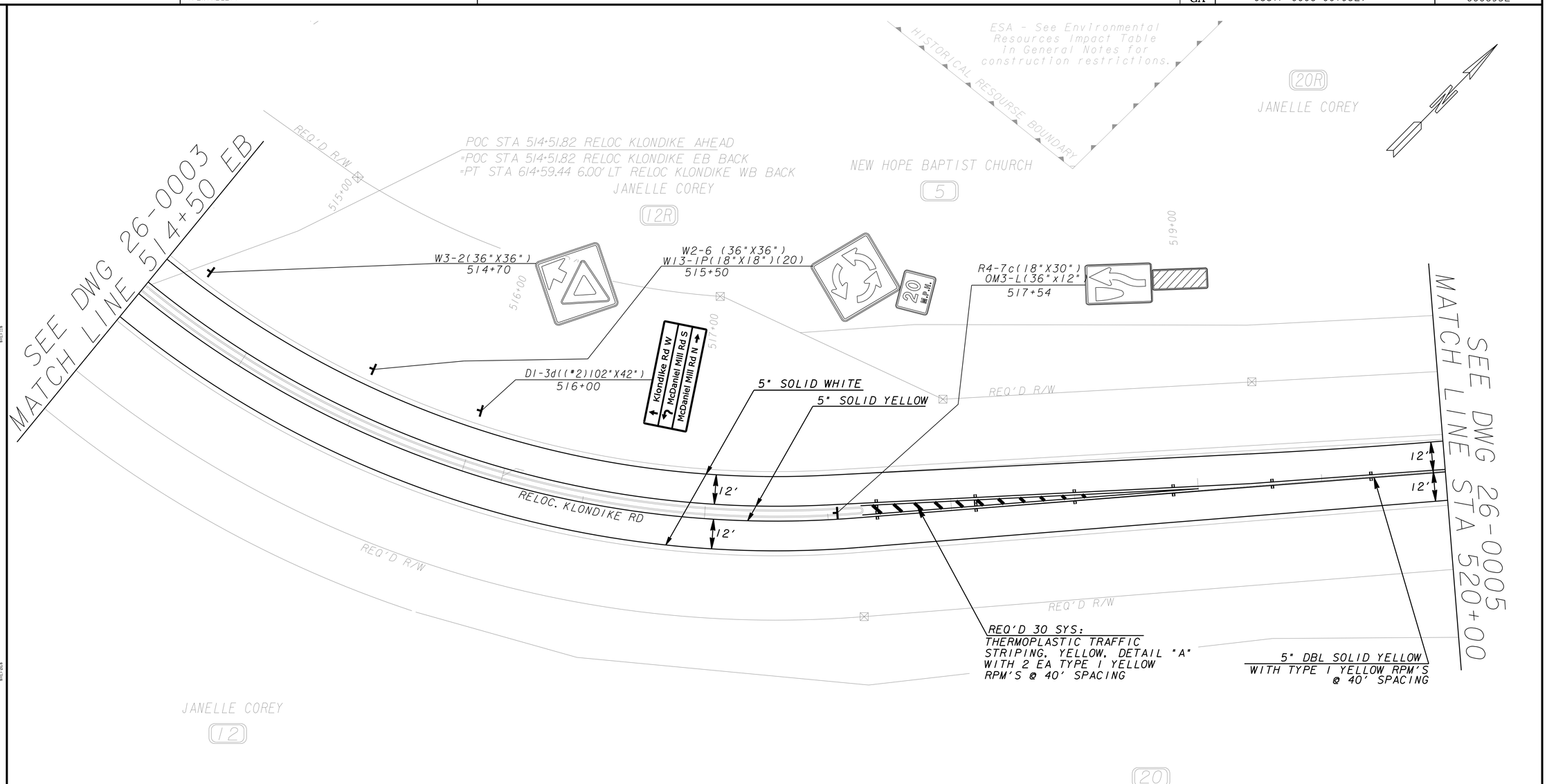
DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	PI. No.
$USER$		$$PENTABLE$$		GA	CSSTP-0006-00(932)	0006932



	QK4 • Engineering • Planning 145 Technology Parkway NW Suite 210 Peachtree Corners, GA 30092 (404) 329-5900	SCALE IN FEET 0 20 40 80	DATE	REVISION	ROCKDALE COUNTY DEPARTMENT OF TRANSPORTATION **SIGNING AND MARKING PLANS** KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS DRAWING NO. 26-0003

3/1/2007 GPLN

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



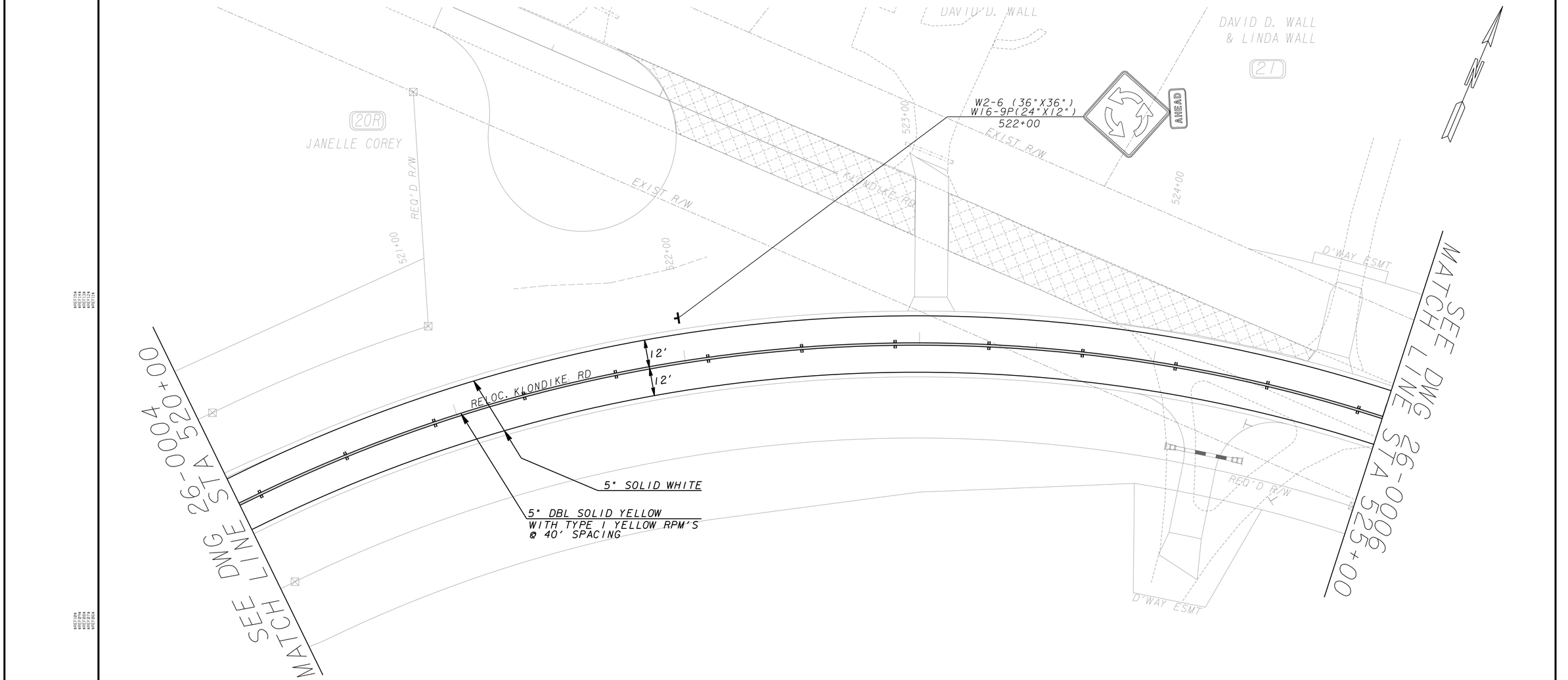
			DATE	REVISION	
					ROCKDALE COUNTY
					DEPARTMENT OF TRANSPORTATION
					SIGNING AND MARKING PLANS
					KLONDIKE RD/McDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS
					DRAWING No. 26-0004

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

3//2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET

0 20 40 80

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO. 26-0005

3/1/2007 GPLN

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

21
DAVID D. WALL
& LINDA WALL

22
BRUCE ELIZABETH M

WADE BRADFORD

N

END PROJECT
CSSTP-0006-00(932)
STA 529+00
N 1331870.9239
E 2325871.9928

526+00
527+00
528+00
529+00
530+00

SEE DWG 26-0005
MATCH LINE STA 525+00

END STRIPING
STA 527+70
MATCH EXIST. STRIPING

EXIST R/W

W1-4L(36"x36")
W13-1P(18"X18")(35)
526+75

35 M.P.H.

KLONDIKE RD

5" SOLID WHITE

5" DBL SOLID YELLOW
WITH TYPE I YELLOW RPM'S
@ 40' SPACING

EXIST R/W

R2-1(45)(24"X30")
526+00

SPEED LIMIT 45

PROJ CSSTP-0006-00(932)
END CONSTRUCTION
RELOC. KLONDIKE RD
STA 527+70
N 1331872.1454
E 2325741.9985
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE

20
JANELLE COREY

QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

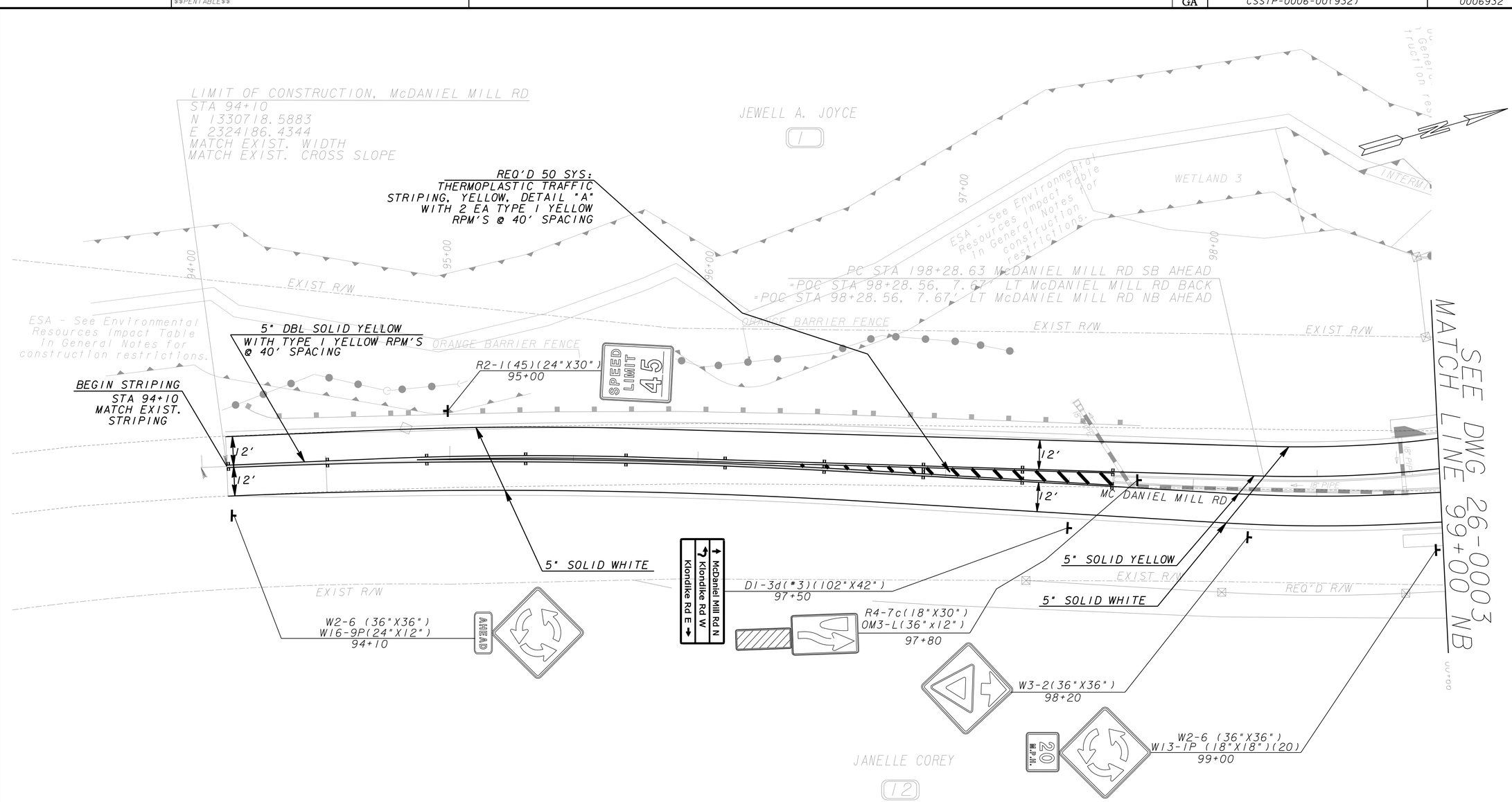
SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0006

3//2007 GPLN

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



DATE	REVISION

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 20 40 80

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

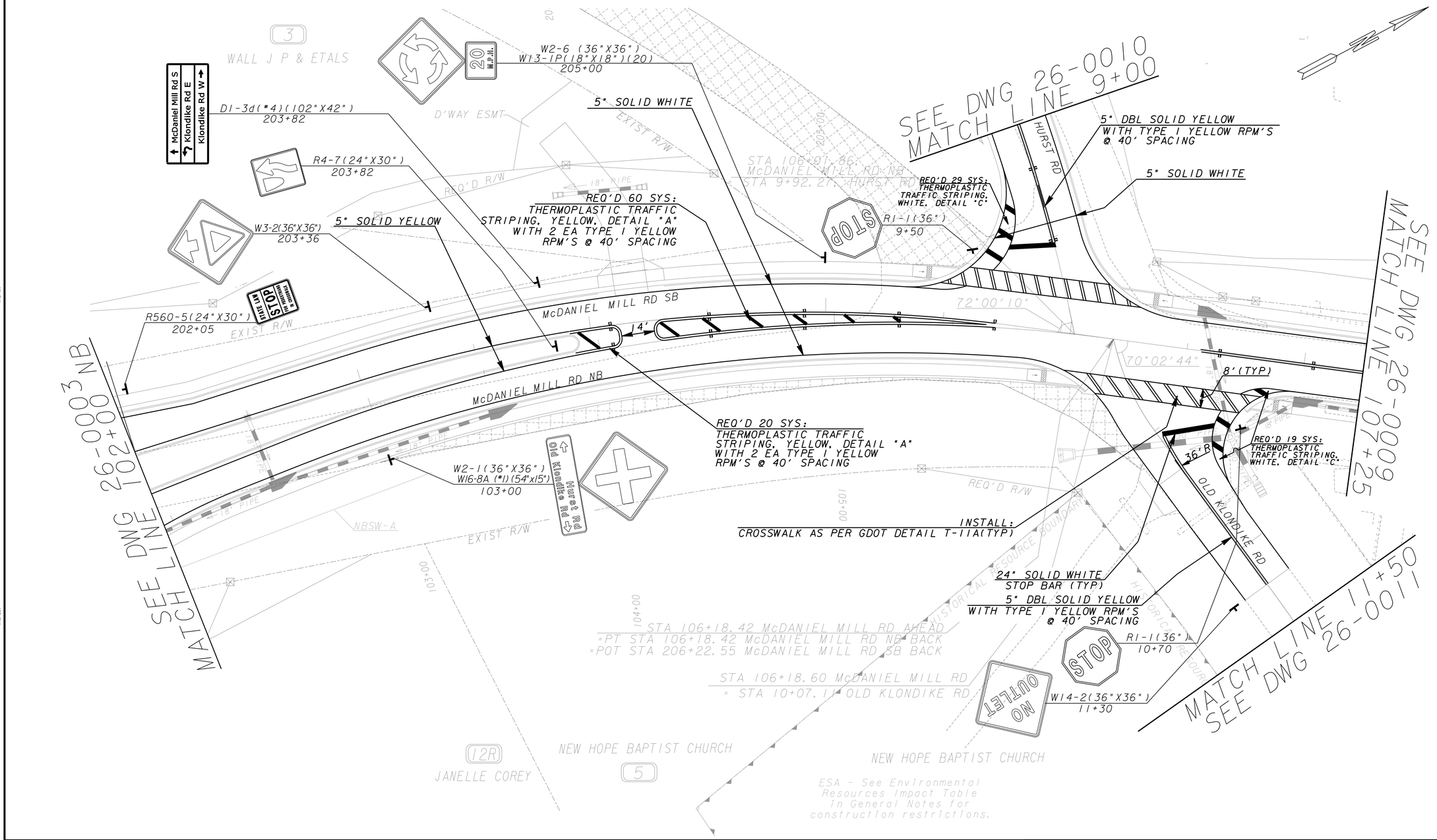
SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0007

3/1/2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
26-0008

3/1/2007 GPLN

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

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

SEE DWG 26-008
MATCH LINE 107+25

4
ANTHONY K. TURNER &
& DELOIS H. TURNER

14
ANTHONY TURNER

PHILLIP D OGLESBY & LINDA A OGLESBY

END FULL WIDTH CONSTRUCTION, McDANIEL MILL RD
STA 109+15
END CURB & GUTTER, TP 2, SB
MATCH EXIST. WIDTH, SB
MATCH EXIST. CROSS SLOPE, NB & SB
MATCH EXIST. PAVEMENT

LIMIT OF CONSTRUCTION
McDANIEL MILL RD
STA 109+60
N 1332136.0447
E 2324742.8297

108+00
110+00
111+00
112+00

5" SOLID WHITE

5" DBL SOLID YELLOW
WITH TYPE I YELLOW RPM'S
@ 40' SPACING

D'WAY ESMT

KC40268
KC40489
KC40269
KC40490
SVA3276
SVA3267

END CONSTR, NB
STA 109+45
END CURB & GUTTER, TP 2, NB
MATCH EXIST. WIDTH, NB

W2-1(36"X36")
W16-8A (*2)(54"x15")
109+00

Old Klondike Rd
Hurst Rd

12'
12'
McDANIEL MILL RD
MC DANIEL MILL RD

18" CMP
18" CMP

END STRIPING
STA 109+45
MATCH EXIST. STRIPING

EXIST R/W
EXIST R/W

D'WAY ESMT
D'WAY ESMT
D'WAY ESMT

SPEED LIMIT 45
R2-1(45) (24"X30")
109+36

12+00

24" RCP

ELAINE HENDRY & D.W. HENDRY JR.
7

NUNEZ MIGUEL
13

FIRST PROPERTIES TRUST,
M. J. JAMES AS TRUSTEE

WILLIAM HENRY HAMRICK

NANCY S. GEOUGE

3/1/2007 GPLN

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-8900

SCALE IN FEET
0 20 40 80

DATE	REVISION

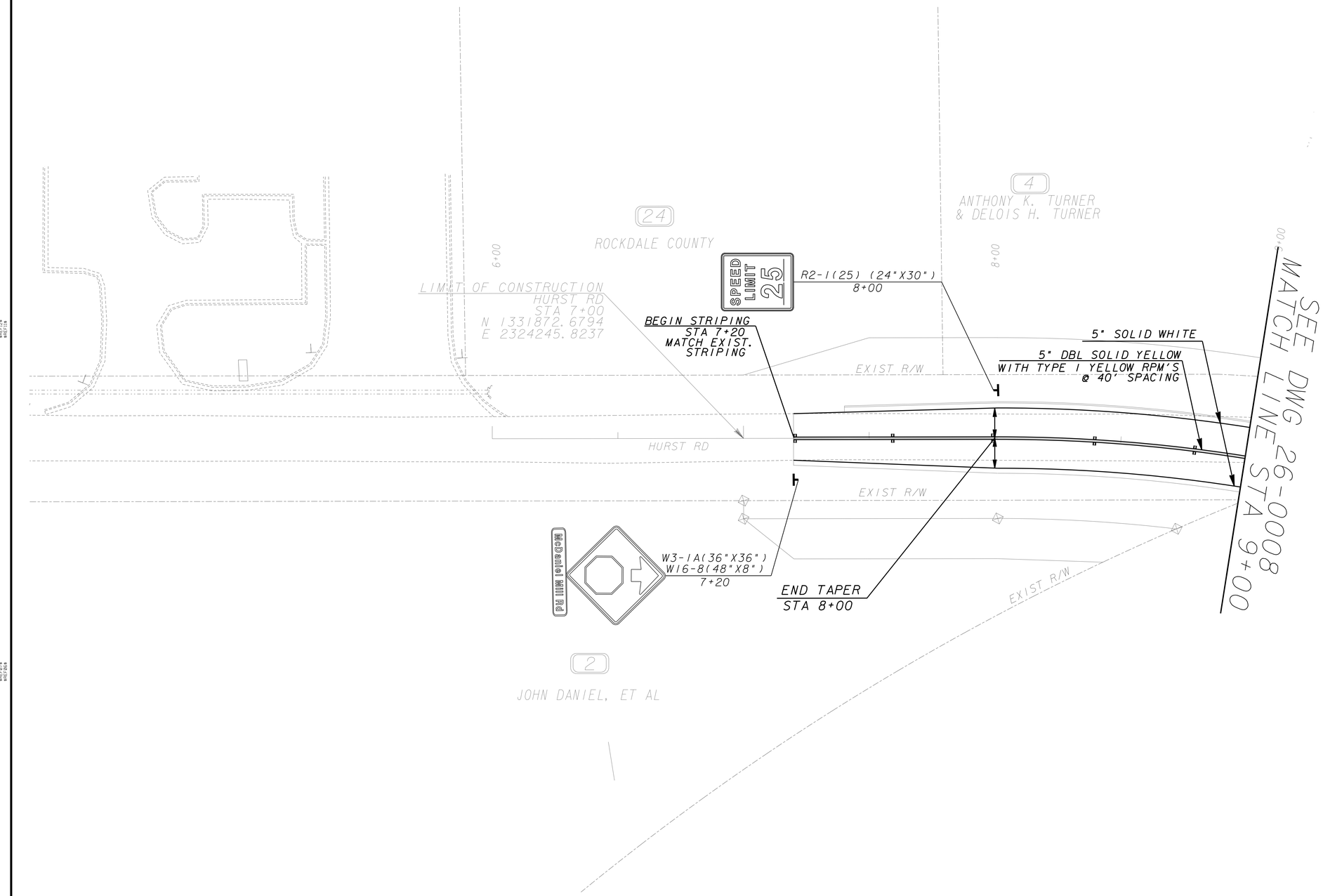
ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0009

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



QK4
• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

SCALE IN FEET
0 20 40 80

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

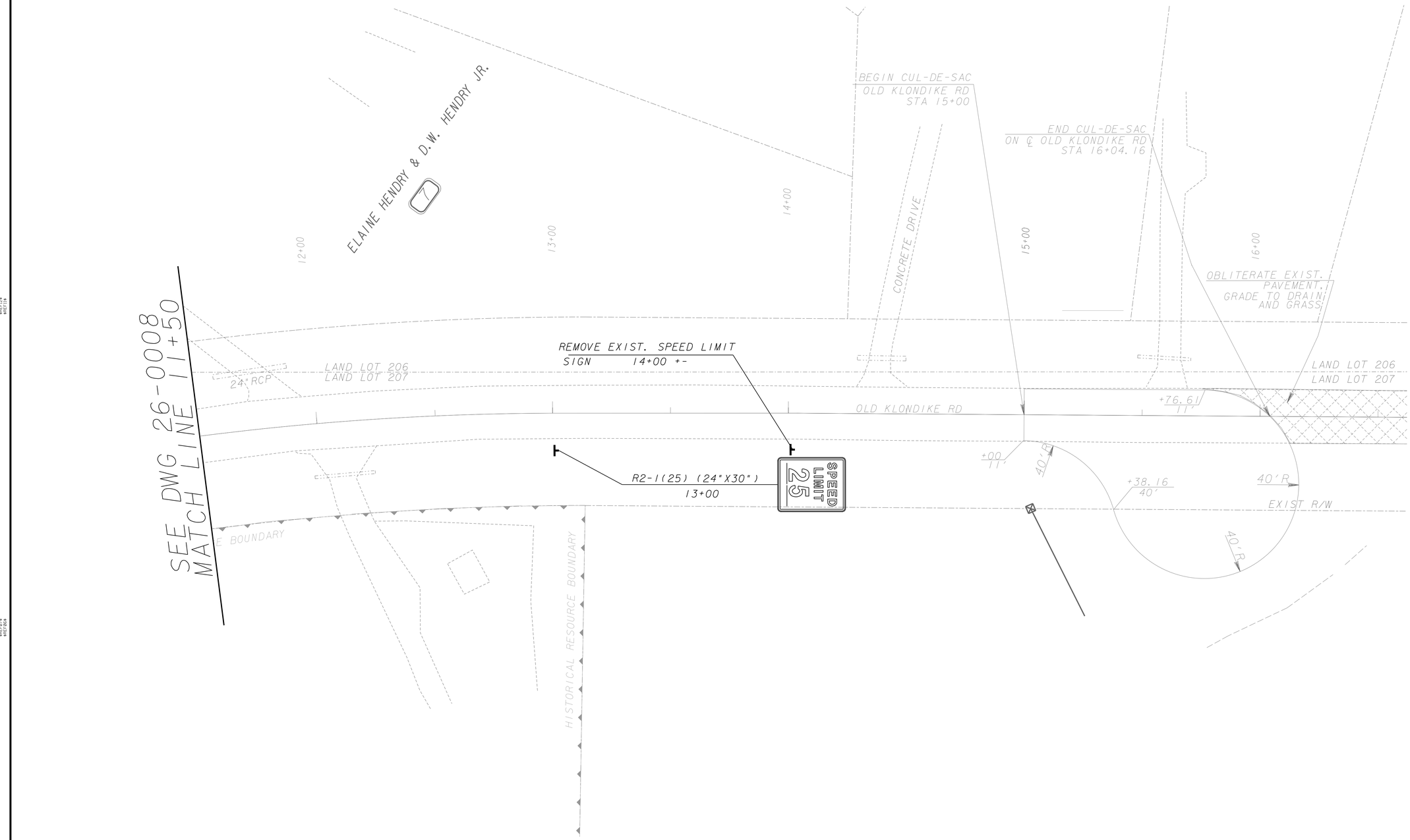
SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
26-0010

3/1/2007 GPLN

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



• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 328-5900

SCALE IN FEET

0 20 40 80

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING PLANS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0011

3/1/2007 GPLN

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

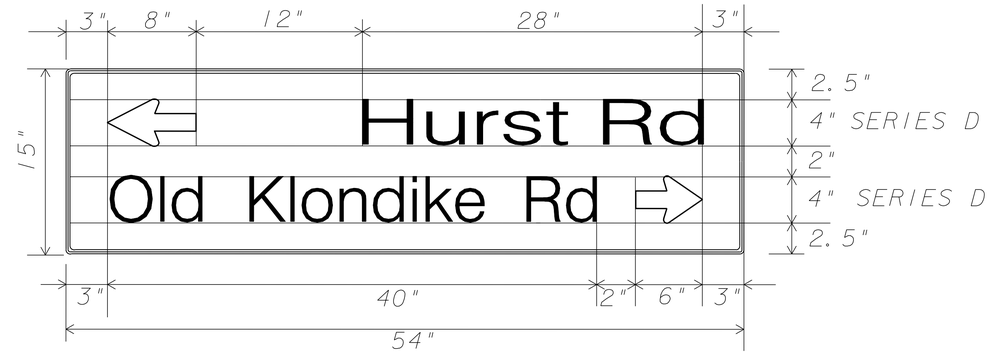
D1-1d(#1)(72"x18")

STA 611+15, MEDIAN, KLONDIKE RD WB
STA 512+92, MEDIAN, KLONDIKE RD EB

D1-1d(#2)(90"x18")

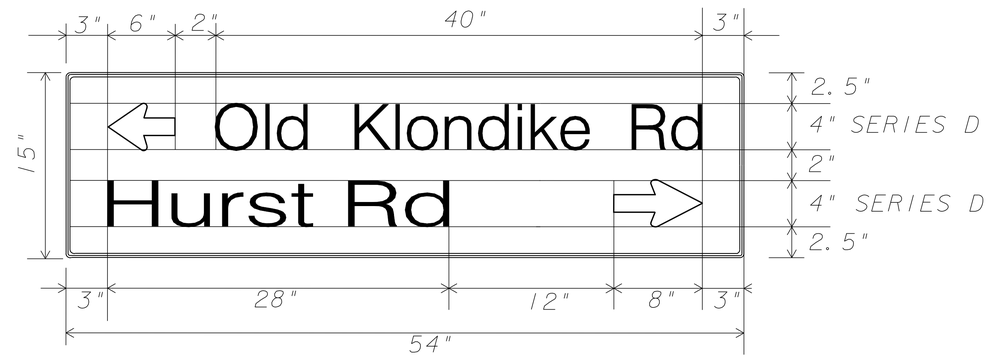
STA 198+80, MEDIAN, MC DANIEL MILL RD SB
STA 101+60, MEDIAN, MC DANIEL MILL RD NB

6" SERIES D
BORDER=WHITE
LEGEND=WHITE
BACK=GREEN



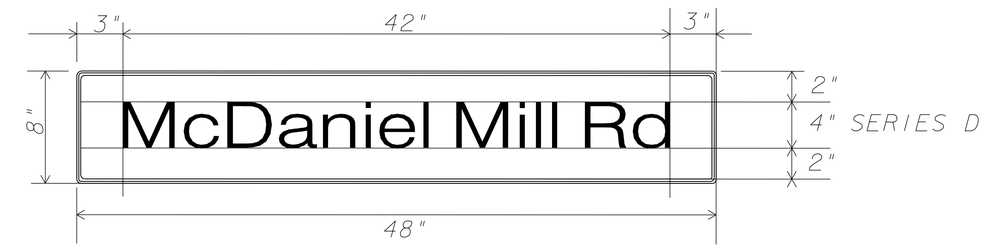
W16-8A(#1)(54"x15")
STA. 103+00, RT

LEG = BLACK
BACK = YELLOW



W16-8A(#2)(54"x15")
STA. 109+00, LT

LEG = BLACK
BACK = YELLOW



W16-8(48"x8")
STA. 7+20, RT

LEG = BLACK
BACK = YELLOW

• Engineering
• Planning

145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 229-5900

N. T. S

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING PLANS
SIGN DETAILS

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING NO.
26-0012

3/1/2007 GPLN

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

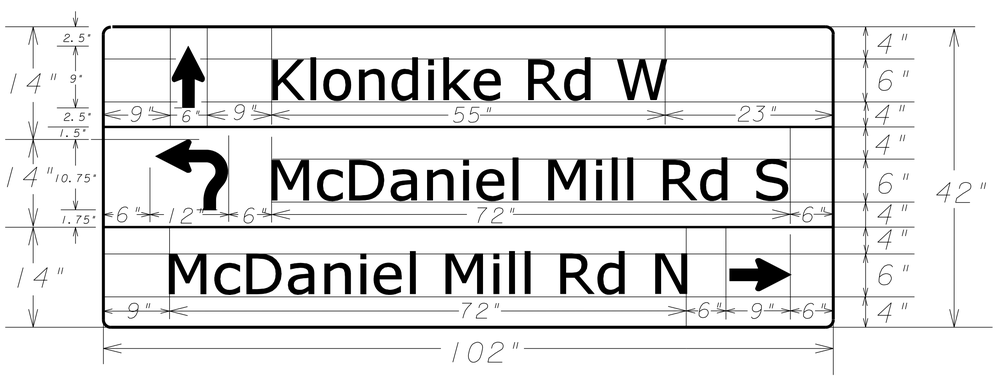
STATE	PROJECT NUMBER	PI. No.
GA	CSSTP-0006-00(932)	0006932

DI-3d(#1)(102"x42")

STA 508+50, RT, KLONDIKE RD

DI-3d(#3)(102"x42")

STA 97+50, RT, McDANIEL MILL RD



DI-3d(#2)(102"x42")

STA 516+00, LT, KLONDIKE RD

DI-3d(#4)(102"x42")

STA 203+82, LT, McDANIEL MILL RD SB

ALL SIGNS
6" SERIES D
BORDER=WHITE
LEGEND=WHITE
BACK=GREEN

QK4 • Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

N. T. S

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

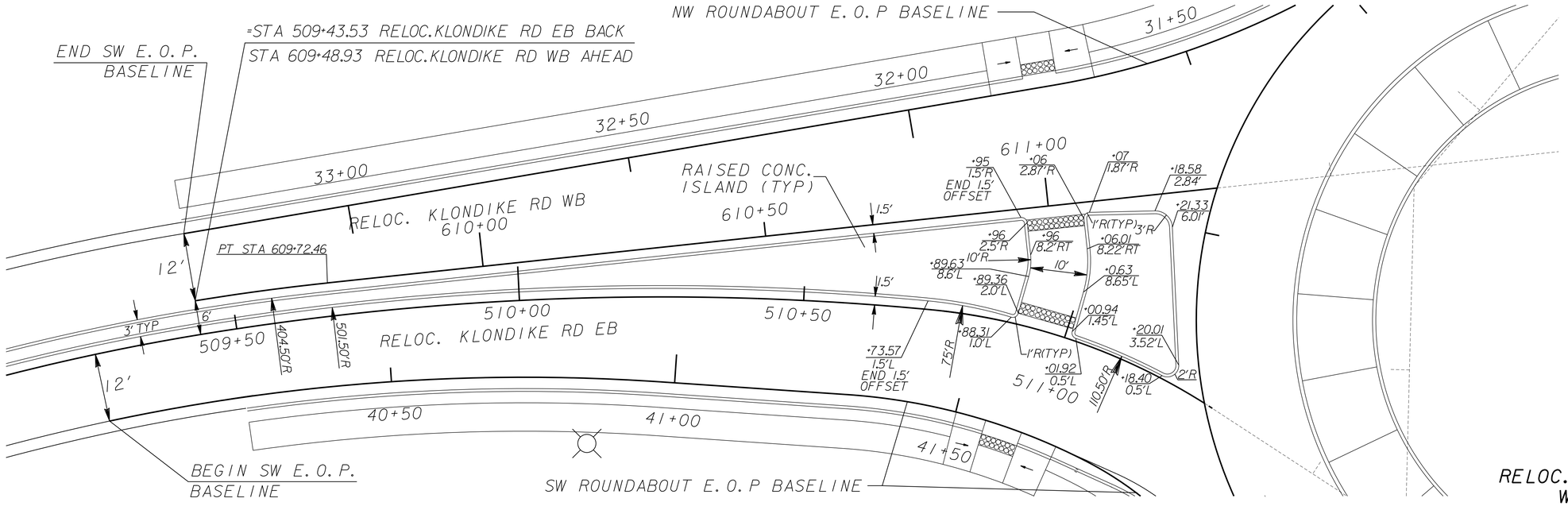
SIGNING AND MARKING PLANS
SIGN DETAILS
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 26-0013

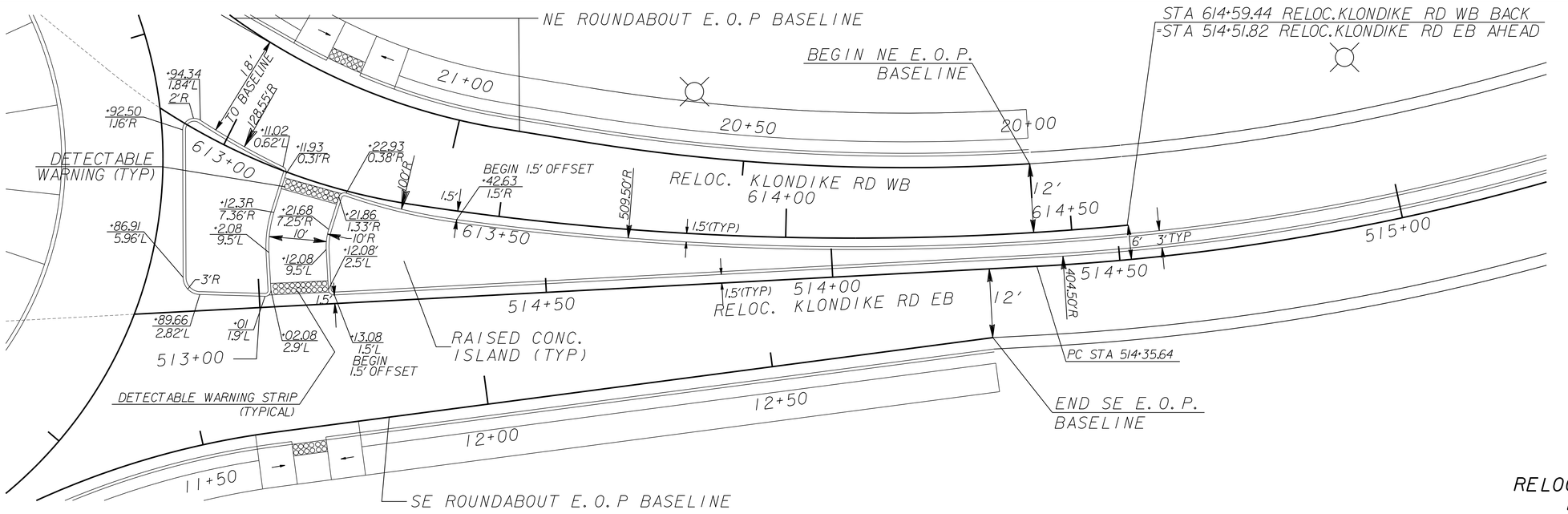
3/1/2007 GPLN

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

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



RELOC. KLONDIKE RD
WEST APPROACH



RELOC. KLONDIKE RD
EAST APPROACH

• Engineering
• Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-5900

SCALE IN FEET
0 10 20 40

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

SPECIAL CONSTRUCTION DETAIL

ROUNDABOUT ISLAND DETAILS - SHEET 1 OF 2

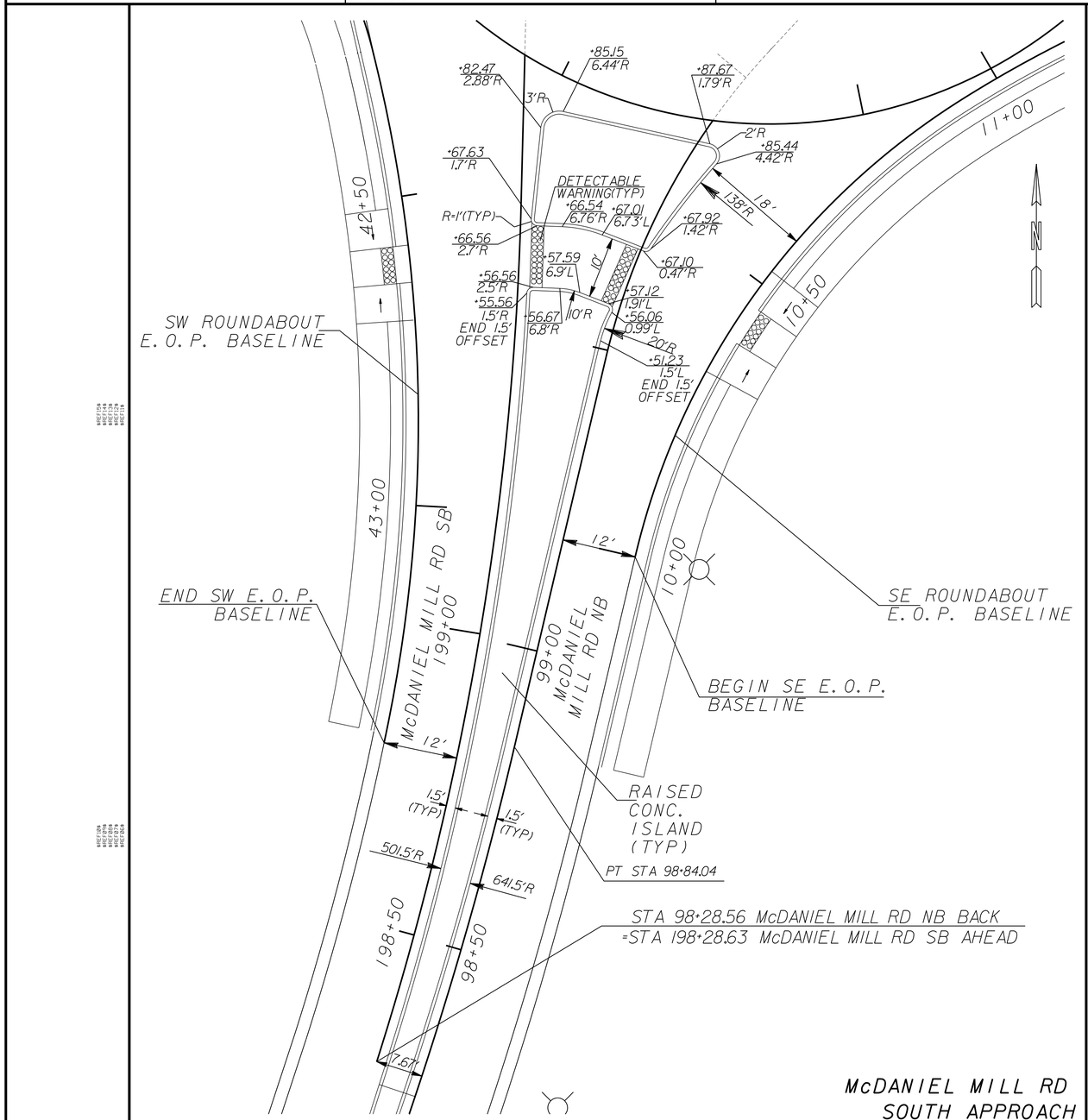
KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

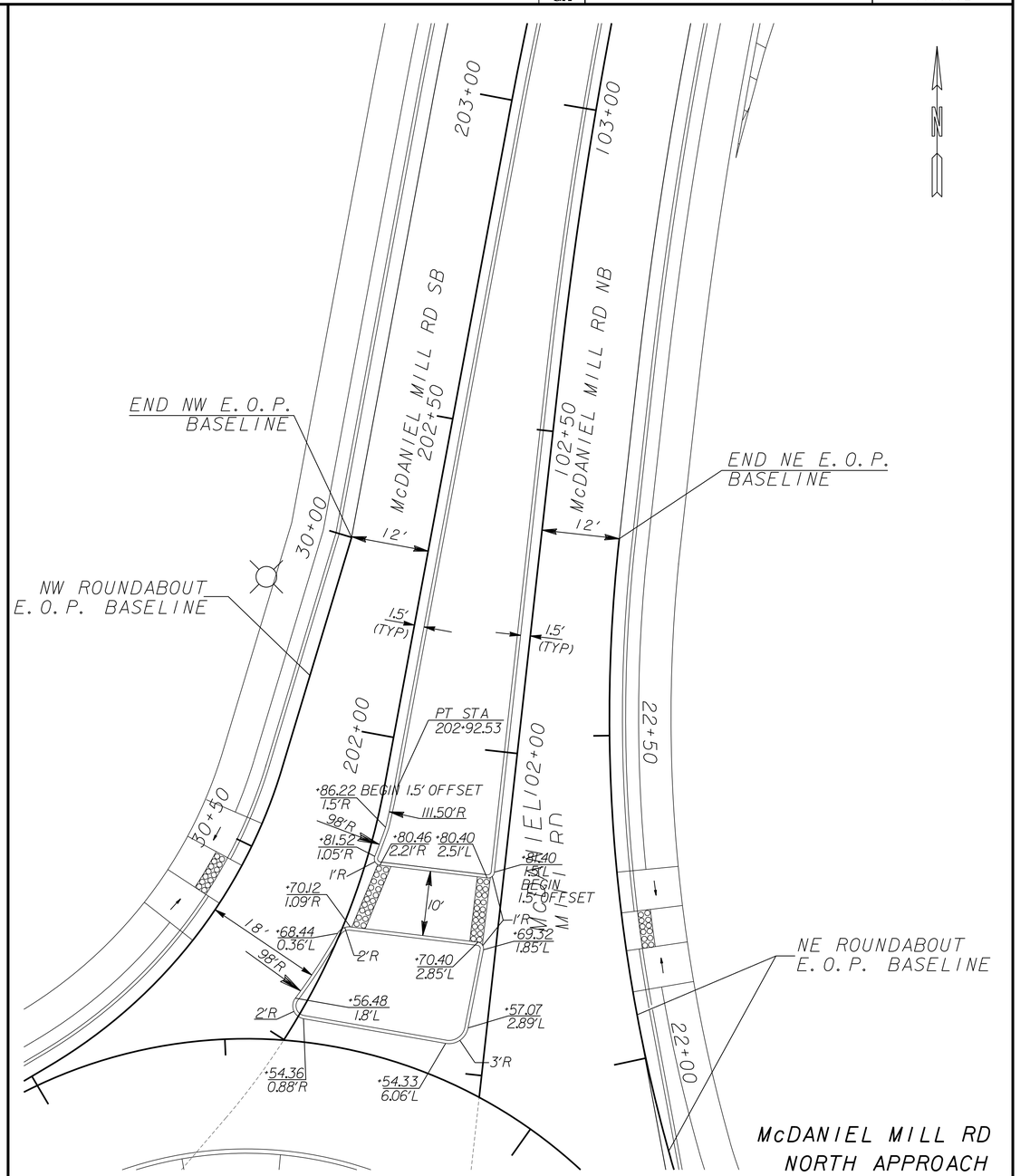
DRAWING No. 38-0001

3/1/2007 GPLN

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

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





3/1/2007 GPLN

Engineering • Planning
145 Technology Parkway NW
Suite 210
Peachtree Corners, GA 30092
(404) 329-8900

SCALE IN FEET
0 10 20 40

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

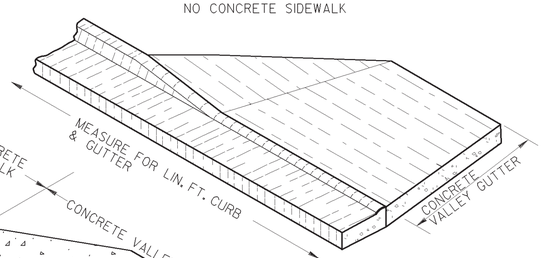
SPECIAL CONSTRUCTION DETAIL
ROUNDABOUT ISLAND DETAILS - SHEET 2 OF 2

KLONDIKE RD/McDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

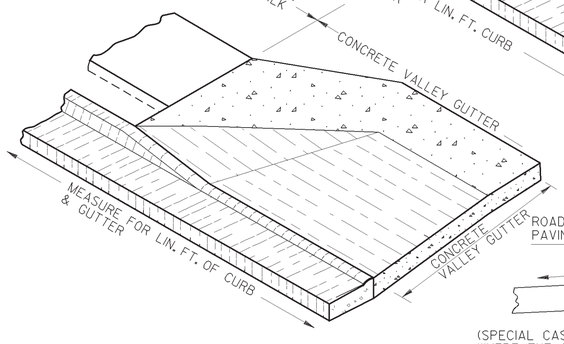
DRAWING NO. 38-0002

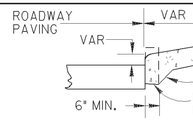
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

PICTORIAL SECTION
NO CONCRETE SIDEWALK

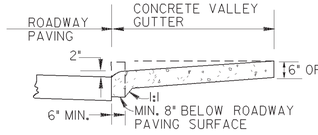


PICTORIAL SECTION
DRIVEWAY & CONRETE SIDEWALK



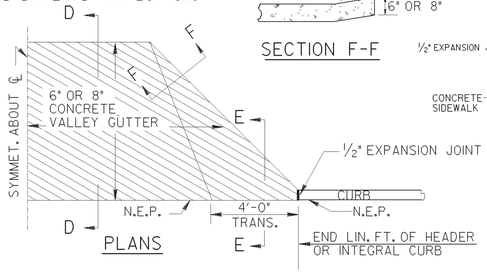


SECTION E-E

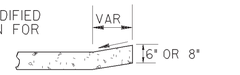


SECTION D-D

NOTE:
PLAN VIEW DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWYS AT BOTTOM.

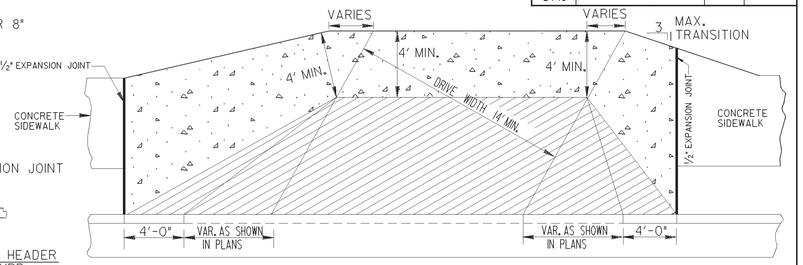


PLANS



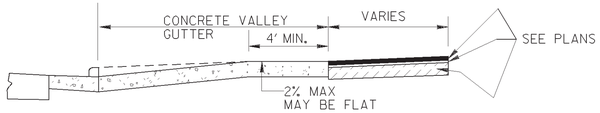
SECTION F-F

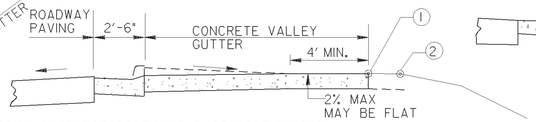
NOTE: DRIVEWAYS WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



DRIVE ENTRANCE MODIFIED FOR SKEW

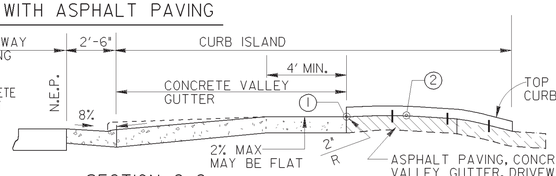
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY





(SPECIAL CASE FOR SECTION B-B OR SECTION C-C: WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

SECTION WITH ASPHALT PAVING

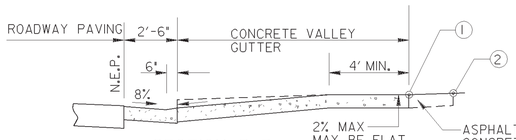


SECTION C-C

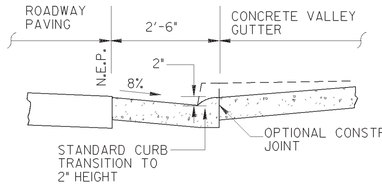
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

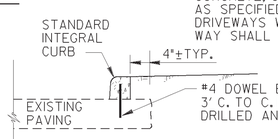
NOTE: ① AND ② MAY COINCIDE



SECTION B-B



NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



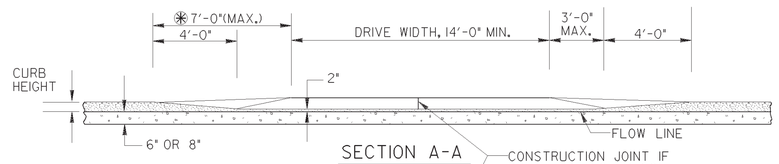
DOWELED CURB DETAIL

GENERAL NOTES:

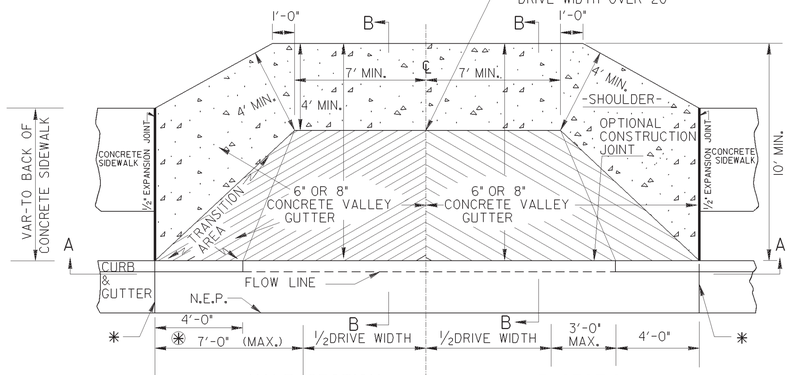
1. QUANTITIES SHALL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY---
   LIN. FT. OF CURB & GUTTER SHALL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER SHALL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY---
   LIN. FT. OF CURB SHALL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OR THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E, ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND PAVED TO THE RIGHT OF WAY LINE.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS SHALL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS SHALL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8% (12:1) WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

When these details are Incorporated Into plans and or projects that are being prepared or constructed In metric units, exact or precise conversion to metric units Is not required. The dimensions shown that are In feet and Inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be Interpreted to mean linear meters and square meters.



SECTION A-A



* CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED AT BACK OF THE CURB.

HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.
℄

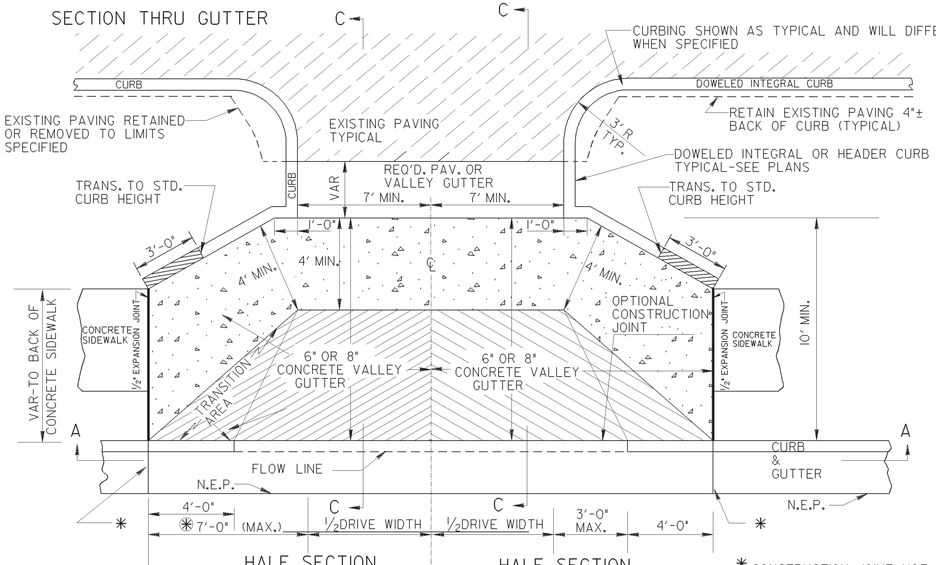
PLAN

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.
℄

PLAN

HALF SECTION

PLAN

(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

DRIVEWAY WITH CURB ISLAND

* CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

* 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

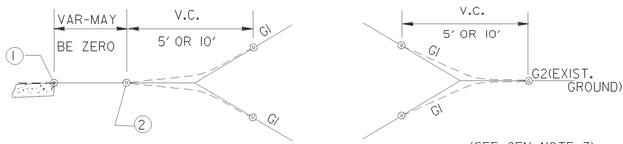
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: ① AND ② MAY COINCIDE

V.C.	MAXIMUM CUT	MAXIMUM FILL
5'	27%	16.67%
10'	28%	27%

V.C.	G1-G2 (MAX. ALGEBRAIC GRADE CHANGE) SAG	CREST
5'	21%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050

BY	REVISION	DATE
GLO	REV. PAVEMENT NOTES, REV. 12" TO 14" MIN., REV. SWALK	7-2-11
	REVISED	4-11-02
	REVISED	4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

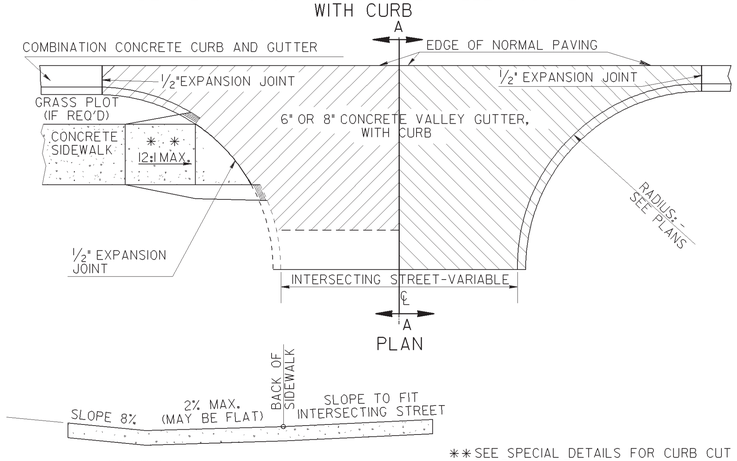
CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

NUMBER
A1

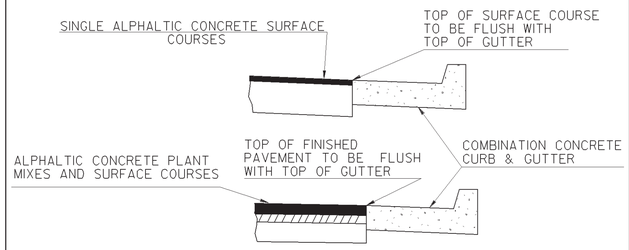
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER WITH CURB

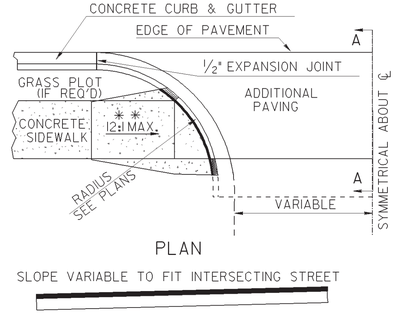


**SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF PLACING PAVEMENT ADJACENT TO GUTTER



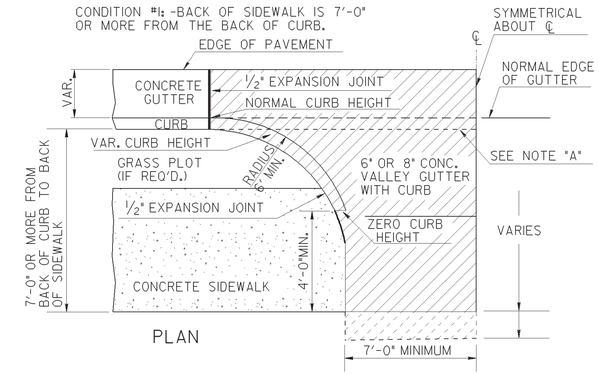
DETAIL OF ADDITIONAL PAVING AT STREET INTERSECTION



NOTE:
ADDITIONAL PAVING TO EXTEND TO END OF RETURN WHEN NO CONCRETE SIDEWALK IS SET UP.

**SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

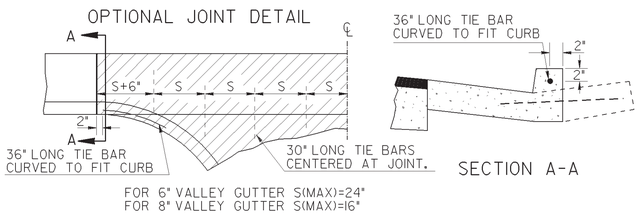
DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER WITHOUT CURB



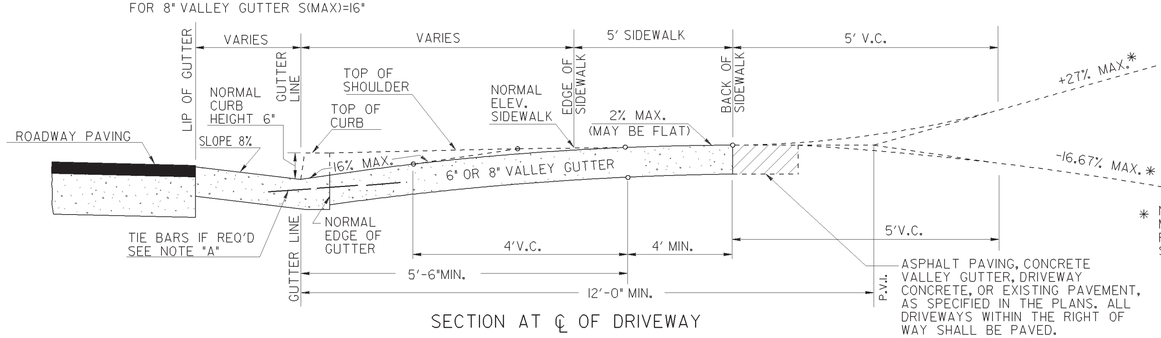
CONDITION "I"-BACK OF SIDEWALK IS 7'-0" OR MORE FROM BACK OF CURB.
ZERO CURB HT. TO BE A MINIMUM OF 3'-2" FROM GUTTER LINE. IF CURB TRANSITION EXTENDS PAST EDGE OF SIDEWALK, THE TOP OF THE VARIABLE HEIGHT CURB IS TO REMAIN FLUSH WITH THE TOP OF THE SIDEWALK THROUGHT OUT TRANSITION. ZERO CURB HEIGHT WILL BE A MINIMUM OF 4'-0" FROM BACK OF SIDEWALK.

NOTE: "A"
CONSTRUCTION JOINT OPTIONAL: -WHEN IMPLEMENTED #4 TIE BARS WILL BE REQUIRED AS SHOWN BELOW TO BE INCLUDED IN UNIT PRICE FOR VALLEY GUTTER. IF CURB IS POURED THROUGH VALLEY GUTTER, THE TOP PORTION WILL BE REMOVED BEFORE SETTING TO MATCH GRADE OF VALLEY GUTTER.

OPTIONAL JOINT DETAIL



FOR 6" VALLEY GUTTER S(MAX)=24"
FOR 8" VALLEY GUTTER S(MAX)=16"

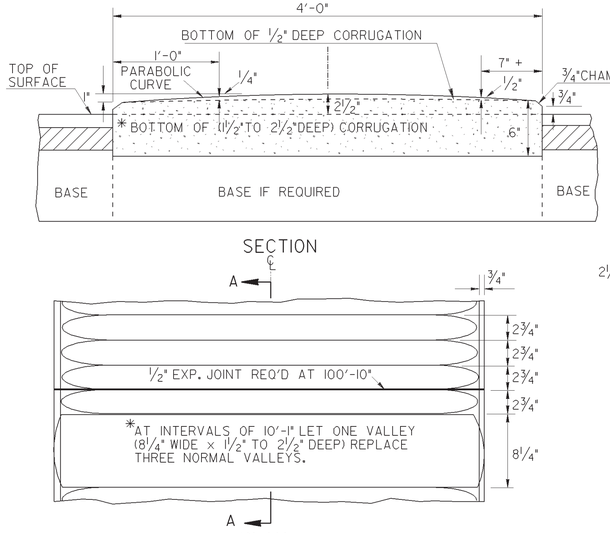


*PERCENTAGE OF ASCENDING GRADE MAY BE INCREASED AT A DISTANCE OF 23' FROM THE GUTTER LINE.

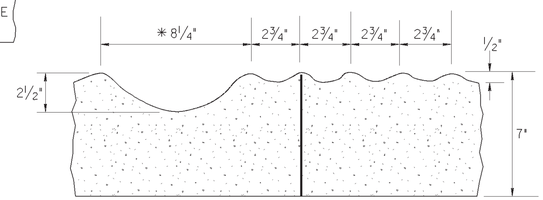
*PERCENTAGE DESCENDING GRADE MAY BE INCREASED AT A DISTANCE 18' FROM THE GUTTER LINE.

* NOTE:
MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

DETAIL OF 4' CORRUGATED CONCRETE MEDIAN



*APPLIES ONLY TO SUPERELEVATED CURVES, INCLUDING TRANSITIONS.



SEE SPECIAL DETAILS FOR DETAILS OF CONCRETE SIDEWALK.

This Detail Replaces Ga Standard 9031J

Guidelines For Usage On Metric Projects

When these details are Incorporated Into plans and or projects that are being prepared or constructed In metric units, exact or precise conversion to metric units is not required. The dimensions shown that are In feet and Inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to lInear feet and square yards shall be Interpreted to mean lInear meters and square meters.

BY	REVISION	DATE
GLO	ADDED PAVEMENT NOTE, REV. DRIVEWAY SECTION	7-21-11
GLO	REV. PAVEMENT NOTES	2-21-03
	REVISED	4-11-02
	REVISED	4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

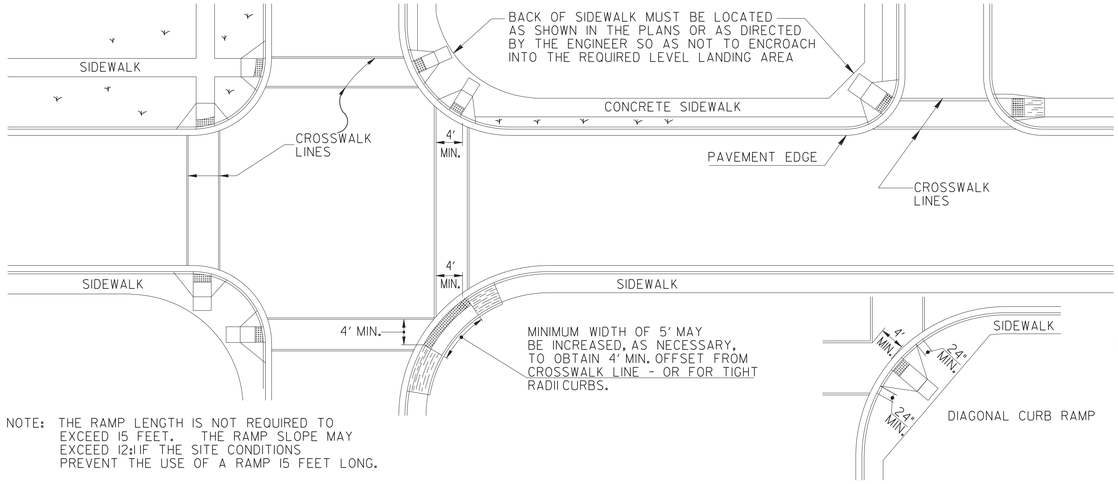
CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION
4' CORRUGATED CONCRETE MEDIAN

NO SCALE — MARCH 12, 2002

NUMBER A2

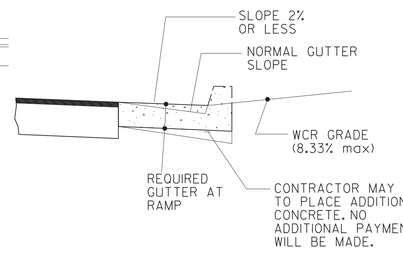
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

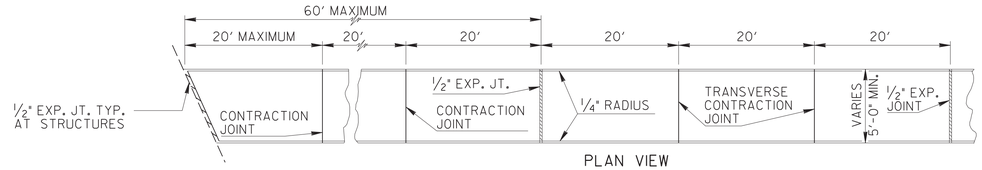


NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

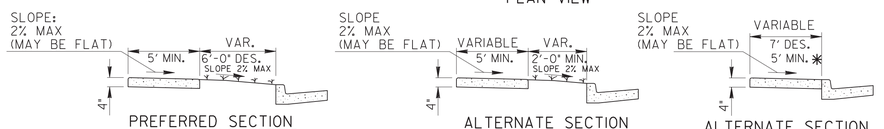
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS



PLAN VIEW



NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT. THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

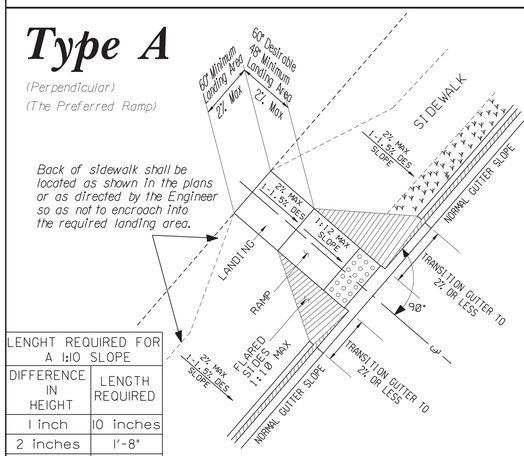
Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

Type A

(Perpendicular)

(The Preferred Ramp)

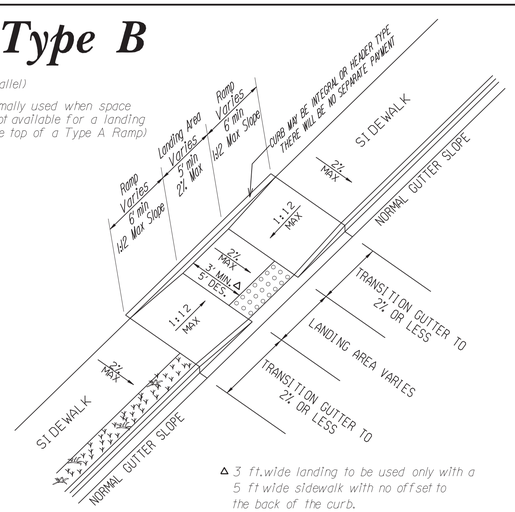


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B

(Parallel)

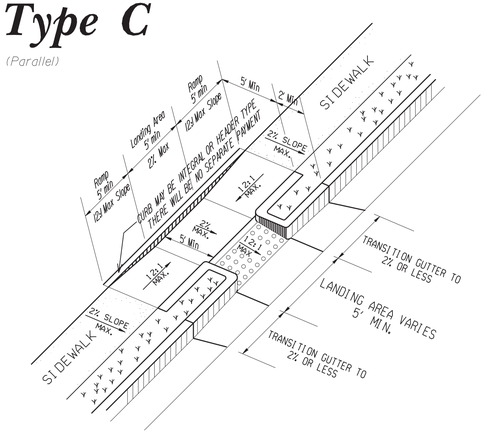
(Normally used when space is not available for a landing at the top of a Type A Ramp)



Δ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type C

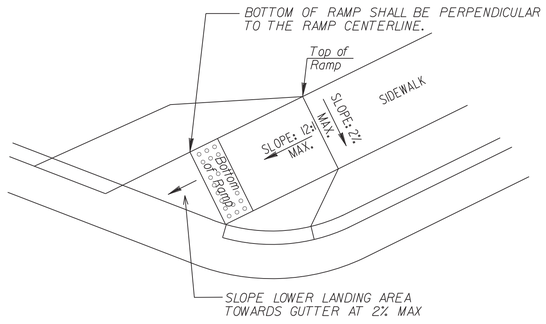
(Parallel)



Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

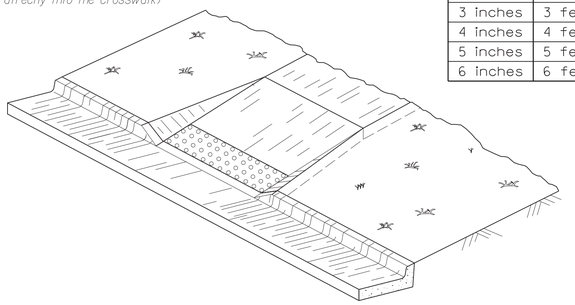
WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



Type D

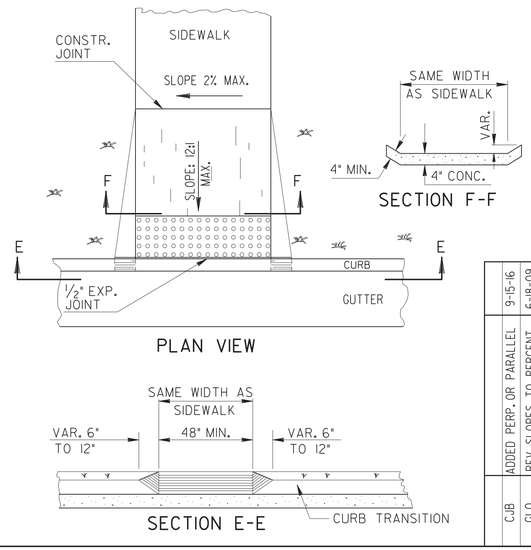
(Perpendicular)

(Normally used when the sidewalk ties directly into the crosswalk)



LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet

IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.



DATE	REVISION	
9-15-16	ADDED PERP. OR PARALLEL	CJB
6-18-09	REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1 CHART.	GLO
5-10-06	ADDED GEN. NOTE NO. 8.	
2-21-03	REV. TRUNCATED DOMES	GLO
2-10-03	REVISED	
7-29-02	REVISED	
5-29-02	REVISED	
5-23-02	REVISED	
5-13-02	REVISED	
4-29-02	REVISED	
4-11-02	REVISED	
4-3-02	REVISED	
3-28-02	REVISED	

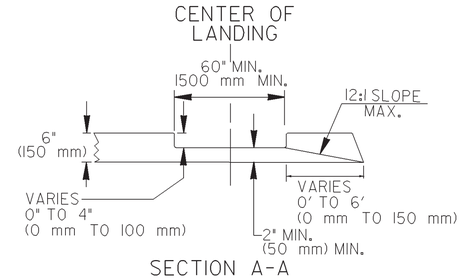
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

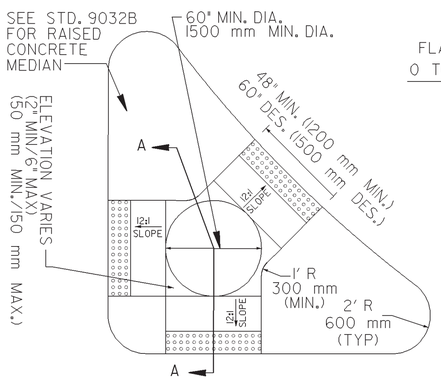
NO SCALE — MARCH 12, 2002

NUMBER A3

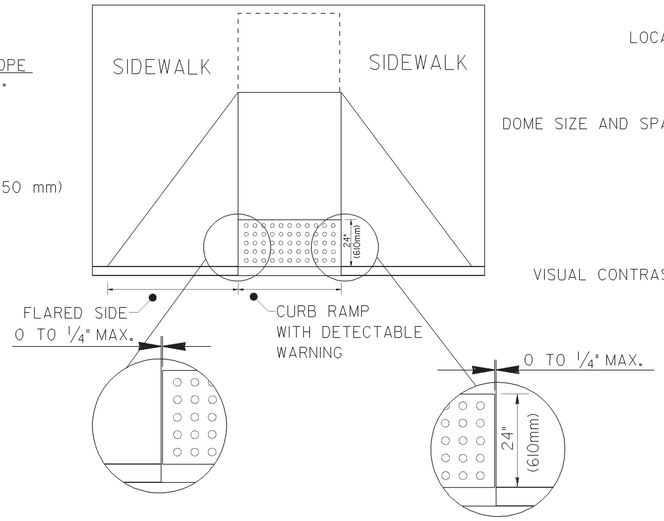
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH

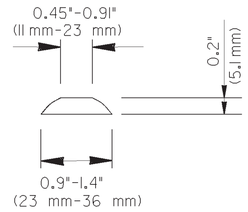


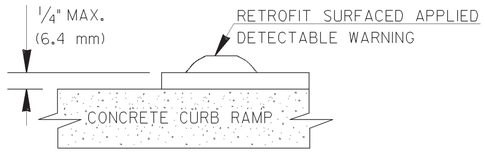
SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

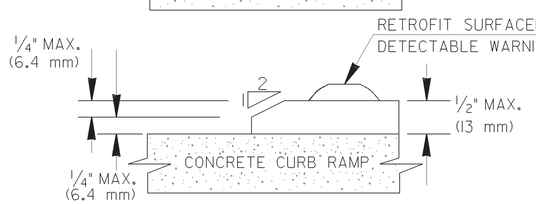
LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

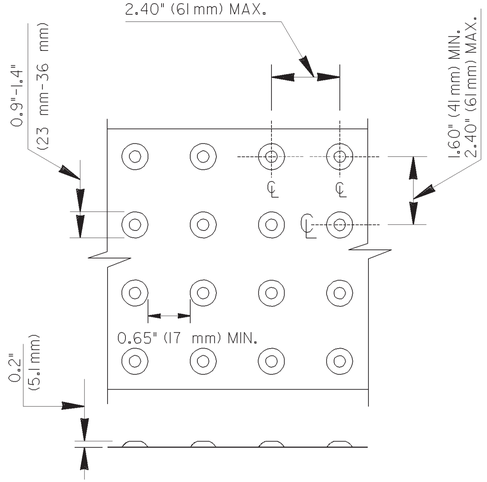
DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

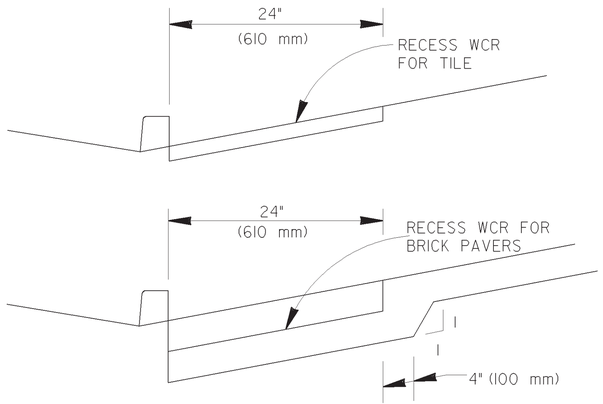
VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.



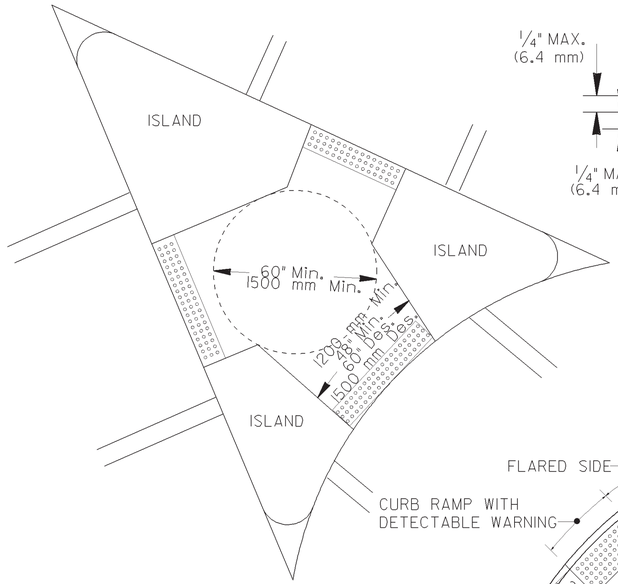


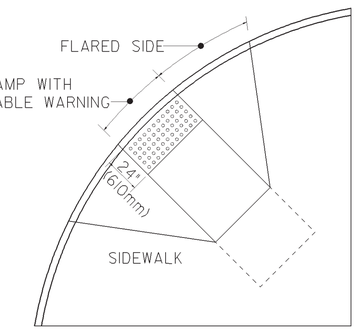




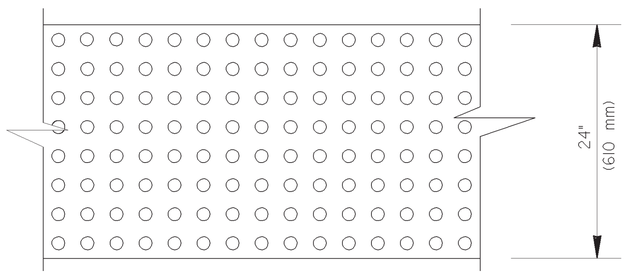


FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED





DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

GENERAL NOTES:

RETROFIT SURFACED APPLIED MATERIALS ONLY:

1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

BY	DATE	REVISION
GLO	6-18-09	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES
GLO	10-2-06	ADDED TOLERANCE TO DTL.
GLO	5-10-06	REVISED TRUNCATED DOMES AND NOTES.
	11-14-02	REVISED
	7-29-02	REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

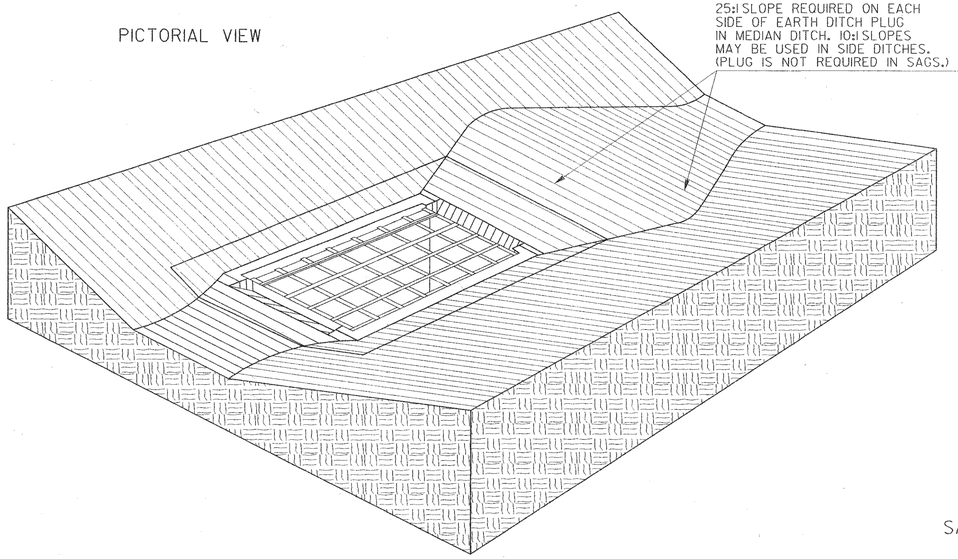
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

NOTE: MIN. 'H' IS BASED ON TYPICAL OUTSIDE DIAMETER OF CONCRETE PIPES AND MAY BE REDUCED SLIGHTLY WHERE SPECIFIED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

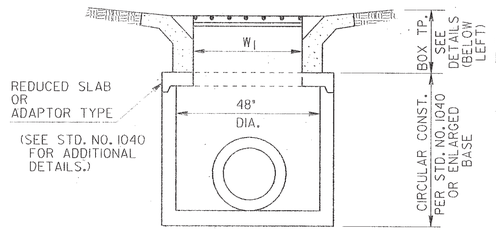
PIPE SIZE	MIN.(*) H	NORMAL W	75° SKEW W	60° SKEW W	45° SKEW W	MIN. H, IF CIRCULAR ALTER. (STD. 1040) IS USED
15"	3'-0"	2'-0"	2'-0"	2'-6"	3'-0"	3'-10"
18"	3'-6"	2'-6"	2'-6"	3'-0"	3'-6"	4'-3"
24"	4'-0"	3'-0"	3'-0"	3'-6"	4'-0"	4'-9"
30"	4'-6"	3'-6"	4'-0"	4'-0"	5'-0"	6'-2"
36"	5'-0"	4'-0"	4'-6"	5'-0"	6'-0"	6'-9"
42"	5'-6"	5'-0"	5'-0"	5'-6"	6'-6"	7'-4"
48"	6'-0"	5'-6"	5'-6"	6'-0"	7'-6"	7'-11"

(*) FOR LONGITUDINAL PIPE OVER 18" WITH A 2'-0" DITCH, OR A LONGITUDINAL PIPE OVER 36" WITH A 4'-0" DITCH, AN ENLARGED BASE IS REDUCED TO W_1 = DITCH WIDTH WITH APPLICABLE MIN. H IN COLUMN AT EXTREME RIGHT.

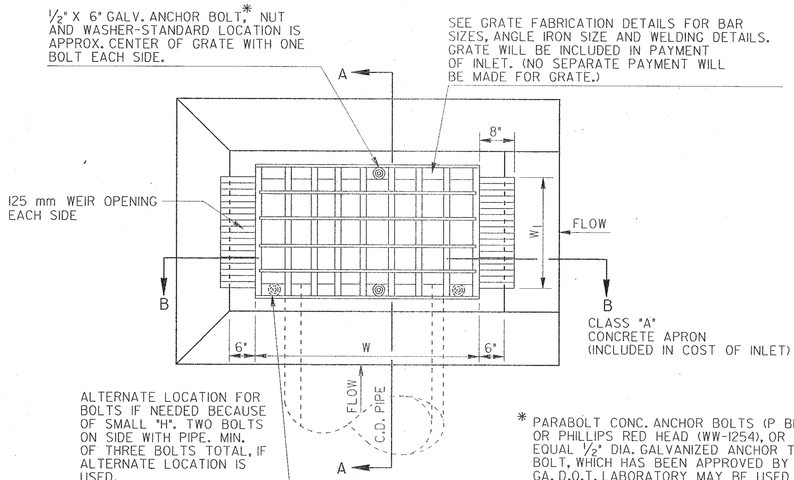
PICTORIAL VIEW



DROP INLET WITH CIRCULAR BASE			
OULET PIPE	ADAPTOR	W X W_1	GRATE SIZE (L. X W.)
TO 18"	TP. 3	2'-0" X 2'-0"	2'-0" X 2'-6"
TO 30"	TP. 2	3'-0" X 2'-0"	3'-0" X 2'-6"

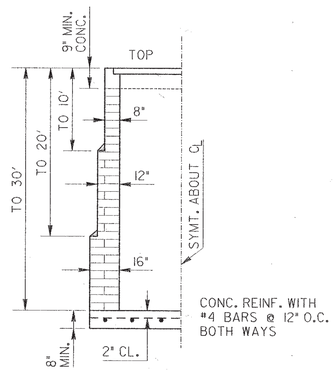


SECTION B-B FOR: CIRCULAR ALTERNATE OR ENLARGED BASE



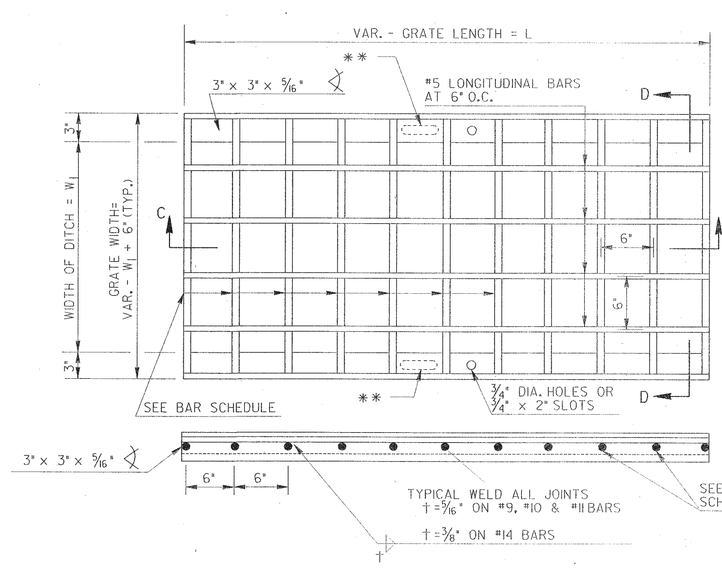
PLAN VIEW

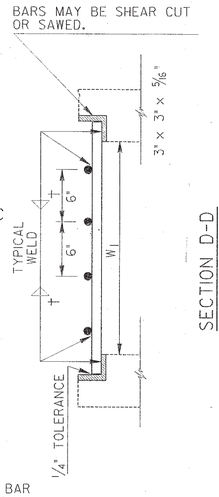
* PARABOLT CONC. ANCHOR BOLTS (P BI2-514) OR PHILLIPS RED HEAD (WW-1254), OR AN EQUAL 1/2" DIA. GALVANIZED ANCHOR TYPE BOLT, WHICH HAS BEEN APPROVED BY THE GA. D.O.T. LABORATORY MAY BE USED IN-STEAD OF THE BOLT SHOWN. ALL SUCH ALTERNATES ARE TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER.

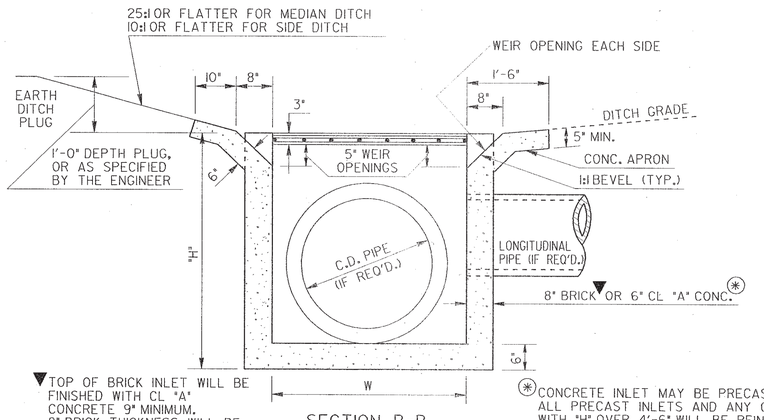


DETAIL OF DEPTH LIMITS FOR BRICK WALL THICKNESS

SAFETY GRATE FABRICATION DETAILS

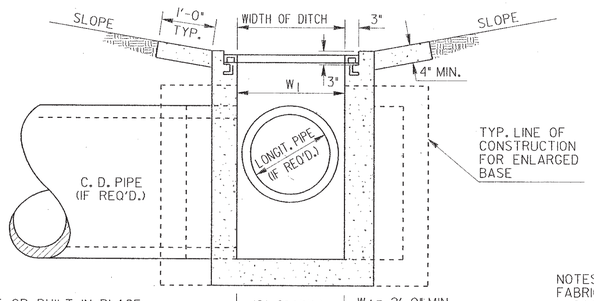






▼TOP OF BRICK INLET WILL BE FINISHED WITH CL "A" CONCRETE 9" MINIMUM. 8" BRICK THICKNESS WILL BE INCREASED FOR 'H' OVER 10 FT. (SEE DETAIL IN MIDDLE OF SHT.)

SECTION B-B



SECTION A-A

(*) CONCRETE INLET MAY BE PRECAST OR BUILT-IN-PLACE. ALL PRECAST INLETS AND ANY CAST-IN-PLACE CONC. INLETS WITH "H" OVER 4'-6" WILL BE REINFORCED IN ALL SIDES & BOTTOM. REINFORCING FOR BOX INLET WILL BE EITHER #4 BARS AT 12" O.C. BOTH WAYS OR 2/2, 6x6 WELDED WIRE FABRIC. ALL REINFORCING WILL HAVE 2" MIN. COVER.

BAR SCHEDULE FOR GRATE		
W_1	GRATE TYPE	BAR SIZE
1'-6" TO 2'-0"	1	#9
2'-6"	2	#10
3'-0" TO 3'-6"	3	#11
4'-0" TO 4'-6"	4	#14

** ALTERNATE: INSTEAD OF 3/4" DIAMETER HOLE, A 2" x 3/4" OVAL HOLE MAY BE PROVIDED.

NOTES FOR GRATE:
FABRICATOR WILL ARRANGE FOR TESTING BY THE GA. D.O.T. LABORATORY 14 DAYS PRIOR TO FABRICATION.

ALL BARS SHALL MEET THE REQUIREMENTS OF AASHTO M 31 GRADE 60.

ALL LONGITUDINAL BARS WILL BE #5 BARS.

GRATE BAR SPACINGS SHOWN ARE " NOMINAL-MINIMUM" AND MAY BE INCREASED (UP TO 10% TYPICAL) WITH NO ADDITIONAL PAYMENT TO PROVIDE BEST FIT FOR STRUCTURE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
DITCH DROP INLET WITH FABRICATED SAFETY GRATE AND WEIR OPENINGS

NO SCALE — OCT., 2000

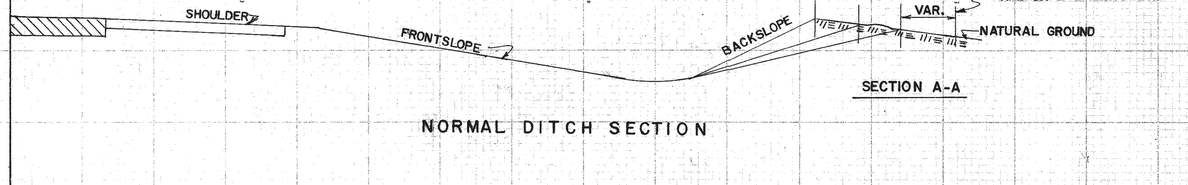
BY	REVISION	DATE
DES.		
DRW.		
TRA.		
CHK.		

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) CHIEF ENGINEER

NUMBER D-4

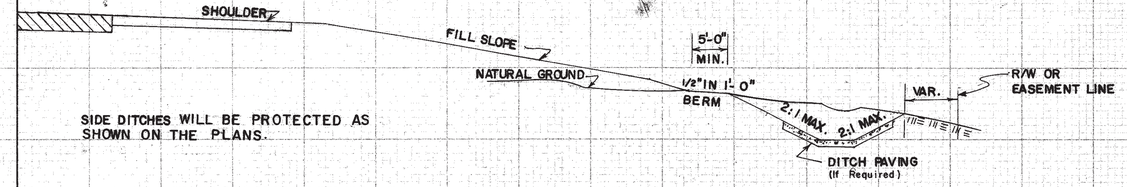
2/27/01 11:18:21 AM \\6001-DSNI\6OPIOT\OCF\00 8855 mwlgt.pgt dgrbwd M:\proj\wgtlnq\d-4.dgt

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



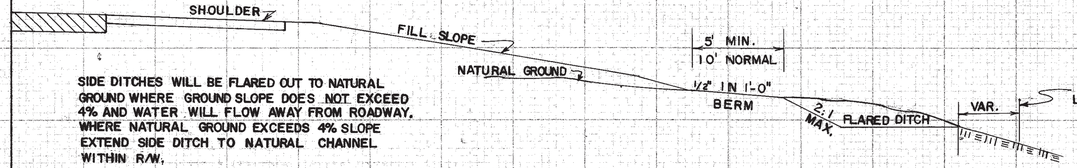
SECTION A-A

NORMAL DITCH SECTION



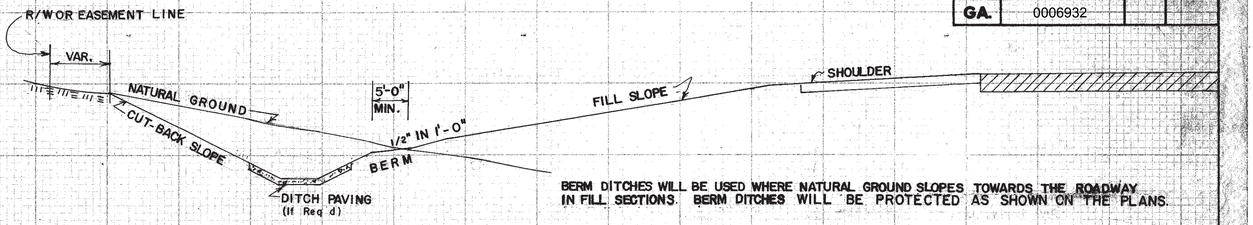
SIDE DITCHES WILL BE PROTECTED AS SHOWN ON THE PLANS.

SECTION B-B



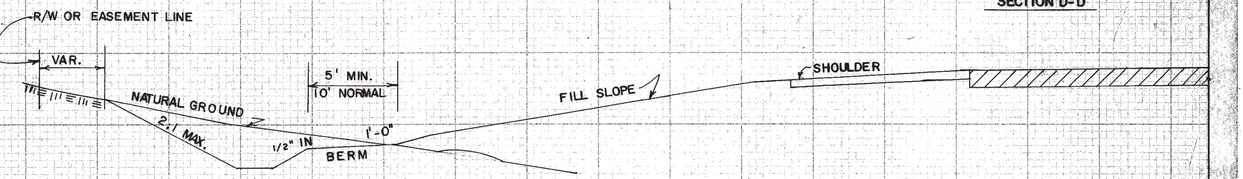
SIDE DITCHES WILL BE FLARED OUT TO NATURAL GROUND WHERE GROUND SLOPE DOES NOT EXCEED 4% AND WATER WILL FLOW AWAY FROM ROADWAY. WHERE NATURAL GROUND EXCEEDS 4% SLOPE EXTEND SIDE DITCH TO NATURAL CHANNEL WITHIN R/W.

SECTION C-C



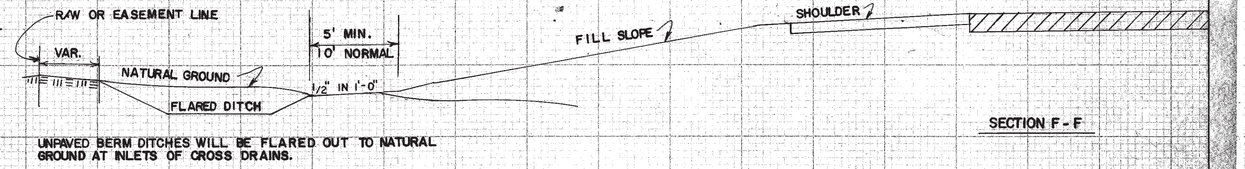
BERM DITCHES WILL BE USED WHERE NATURAL GROUND SLOPES TOWARDS THE ROADWAY IN FILL SECTIONS. BERM DITCHES WILL BE PROTECTED AS SHOWN ON THE PLANS.

SECTION D-D



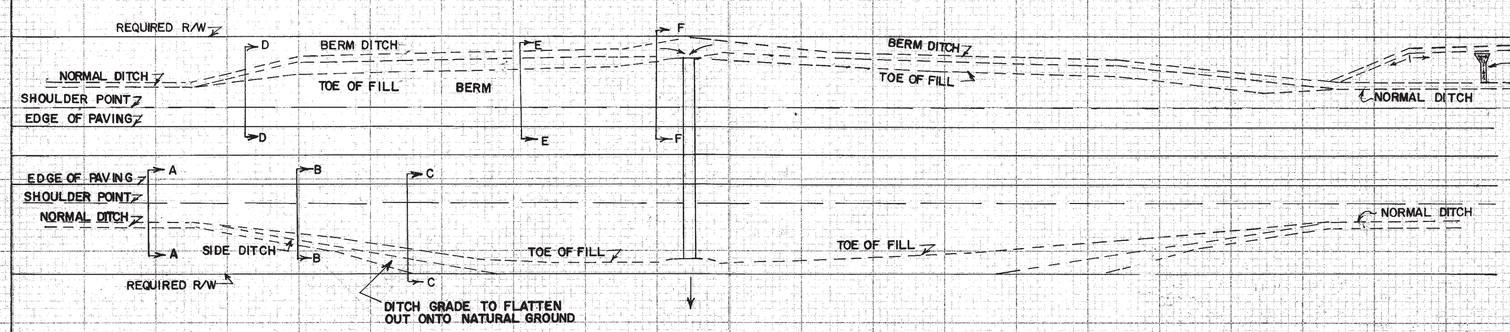
SOD DITCH CHECKS WILL BE USED IN BERM DITCHES ON GRADES OF 2.1% OR OVER AS SHOWN ON THE PLANS

SECTION E-E

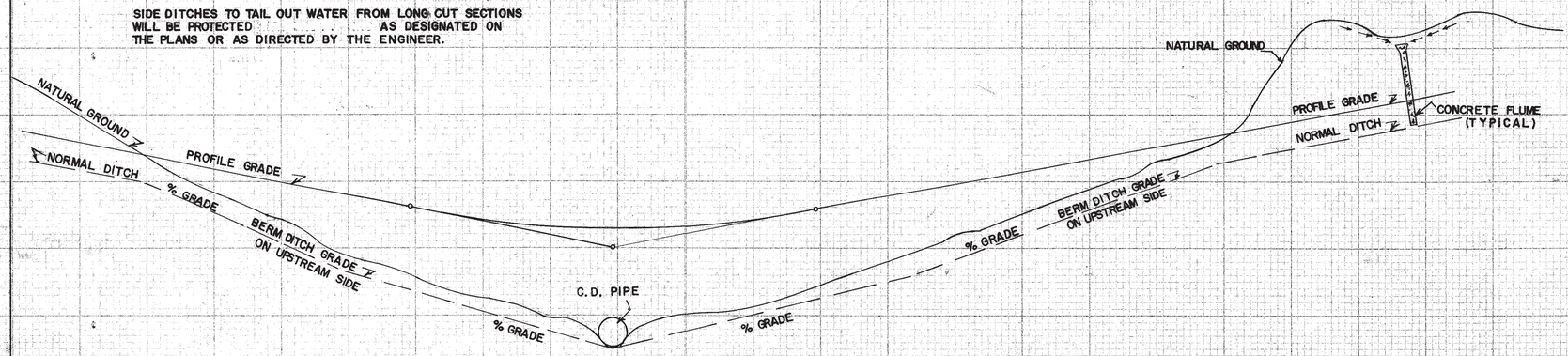


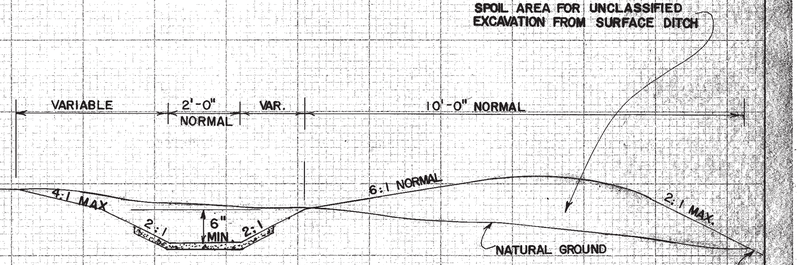
UNPAVED BERM DITCHES WILL BE FLARED OUT TO NATURAL GROUND AT INLETS OF CROSS DRAINS.

SECTION F-F



SIDE DITCHES TO TAIL OUT WATER FROM LONG CUT SECTIONS WILL BE PROTECTED . . . . . AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.





DETAIL OF SURFACE DITCHES

NOTE: SURFACE DITCHES WILL BE REQUIRED AT THE TOP OF CUT SLOPES WHERE SHOWN ON THE PLANS OR WHERE IT IS DETERMINED BY THE ENGINEER ON CONSTRUCTION THAT THEIR USE IS ESSENTIAL. IN GENERAL, SURFACE DITCHES WILL BE REQUIRED WHERE THE SLOPE OF THE NATURAL GROUND AT THE TOP OF THE CUT DRAINS TOWARDS THE ROADWAY AND THE MATERIAL IN THE BACK SLOPE IS SUBJECT TO EROSION. SURFACE DITCHES ARE TO BE PROTECTED AS SHOWN ON THE PLANS.

CONSTRUCTION DETAILS

BERM DITCHES
SIDE DITCHES
SURFACE DITCHES

REV. & REDR. JULY, 1980

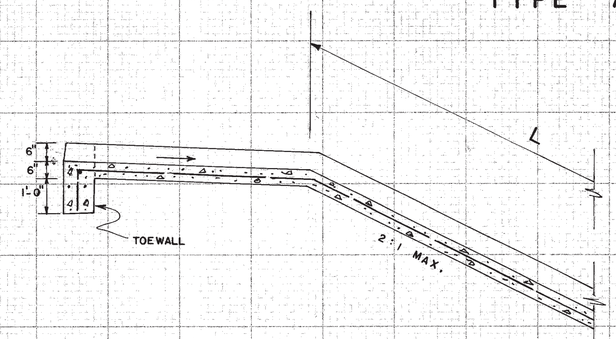
NO SCALE

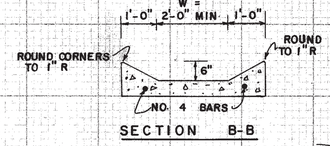
D-7

FORM EF3

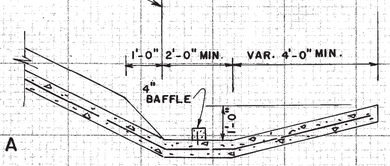
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

TYPE "A"

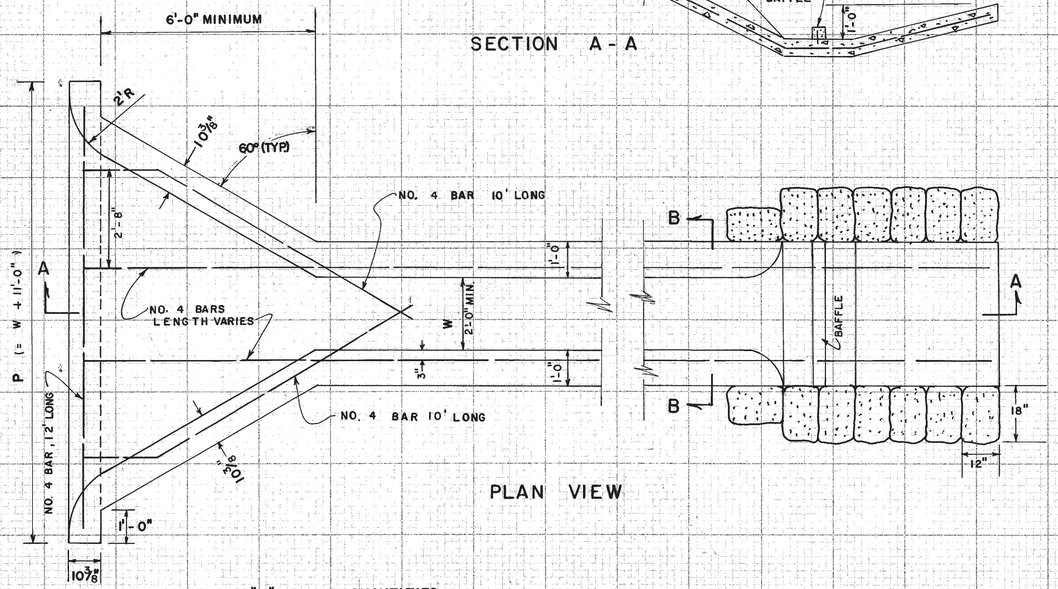




SECTION B-B



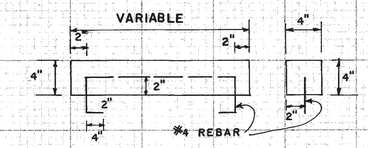
SECTION A-A



PLAN VIEW

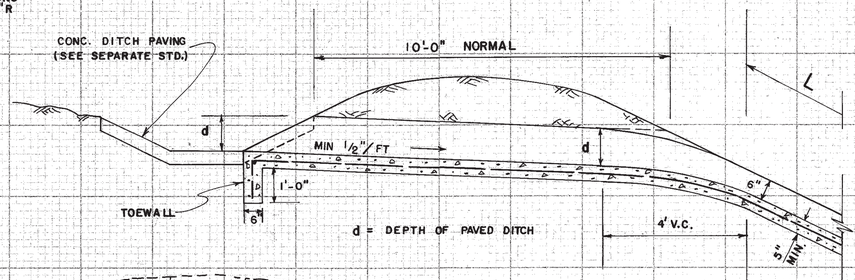
TYPE "A" FLUME QUANTITIES:

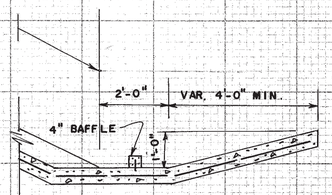
(FOR W = 2'-0") CU. YDS. CONCRETE = 2.41 + 0.0926 (L)
(FOR W = 4'-0") CU. YDS. CONCRETE = 2.59 + 0.1306 (L)
(FOR EITHER W) LBS. STEEL = 41 LBS. + (1.336)(L)
SAND CEMENT BAG RIP RAP: 14 BAGS x 0.1667 SQ. YDS/BAG = 2.333 SQ. YDS.



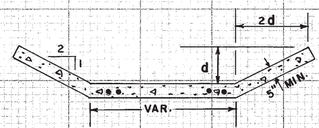
DETAILS OF 4" CONCRETE BAFFLE

TYPE "B"

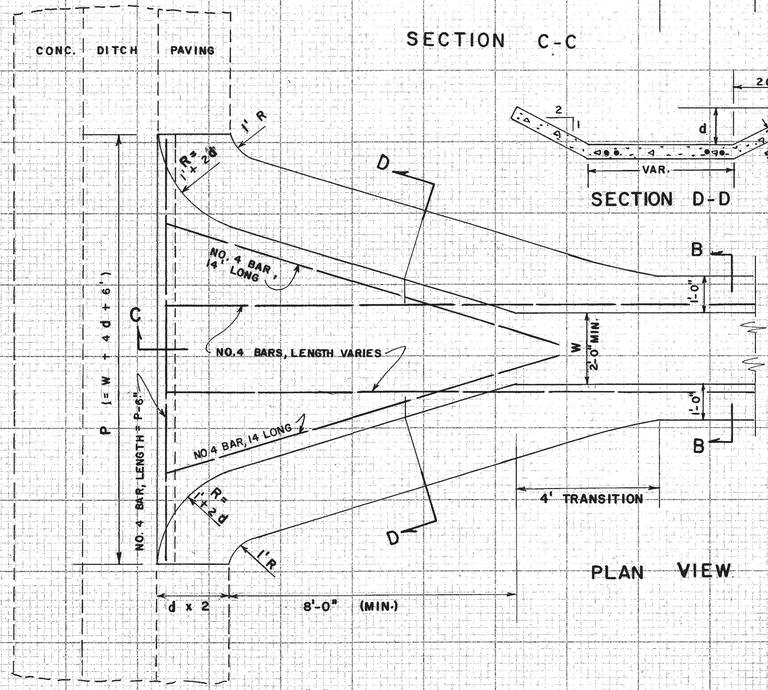


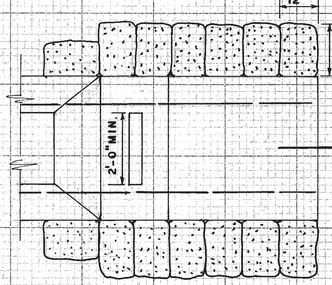


SECTION C-C



SECTION D-D





PLAN VIEW

TYPE "B" FLUME QUANTITIES:

(FOR W = 2'-0") CU. YDS. CONC. = K + 0.0926 (L)
(FOR W = 4'-0") CU. YDS. CONC. = K + 0.1306 (L)
(FOR EITHER W) LBS. STEEL = 55 + 0.667 (P) + 1.336 (L)
SAND CEMENT BAG RIP RAP: 14 BAGS x 0.1667 SQ. YDS./BAG = 2.333 SQ. YDS.

d	W = 2'-0" P	W = 2'-0" K (cu. yds)	W = 4'-0" P	W = 4'-0" K (cu. yds)
6"	10'	1.94	12'	2.36
9"	11'	2.24	13'	2.68
1'-0"	12'	2.58	14'	3.05
1'-3"	13'	2.98	15'	3.43
1'-6"	14'	3.36	16'	3.84
1'-9"	15'	3.84	17'	4.32
2'-0"	16'	4.35	18'	4.86
2'-3"	17'	4.92	19'	5.45
2'-6"	18'	5.56	20'	6.10

NOTE: P = FLUME OPENING
K = CONCRETE CONSTANT (SEE FORMULAS)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SIZE AND DIMENSIONS OF TYPE A OR TYPE B FLUMES MAY BE ADJUSTED FOR AN INDIVIDUAL SITE WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. AT LOCATIONS WHERE FLUME OUTLETS INTO AN INLET STRUCTURE, OMIT BAFFLE AND DOWNTURN END AND CONNECT FLUME TO THE INLET STRUCTURE.
4. SAND CEMENT BAG RIP RAP SHALL BE OMITTED IN PAVED DITCHES OR WHERE OTHER APPROVED EROSION CONTROL MATERIALS ARE USED.
5. POURED IN PLACE CONCRETE SHALL BE CLASS B MINIMUM. CLASS A CONCRETE SHALL BE USED FOR BAFFLES IF PRECAST.
6. BASIS OF PAYMENT:
   CLASS B CONCRETE ——— CU.YD.
   BAR REINFORCEMENT STEEL ——— LB.
   SAND CEMENT BAG RIP RAP, 6 IN. OR 8 IN. ——— SQ.YDS.

CONCRETE FLUMES TYPES "A" & "B"

NO SCALE

REV. & REDR. OCT. 1983

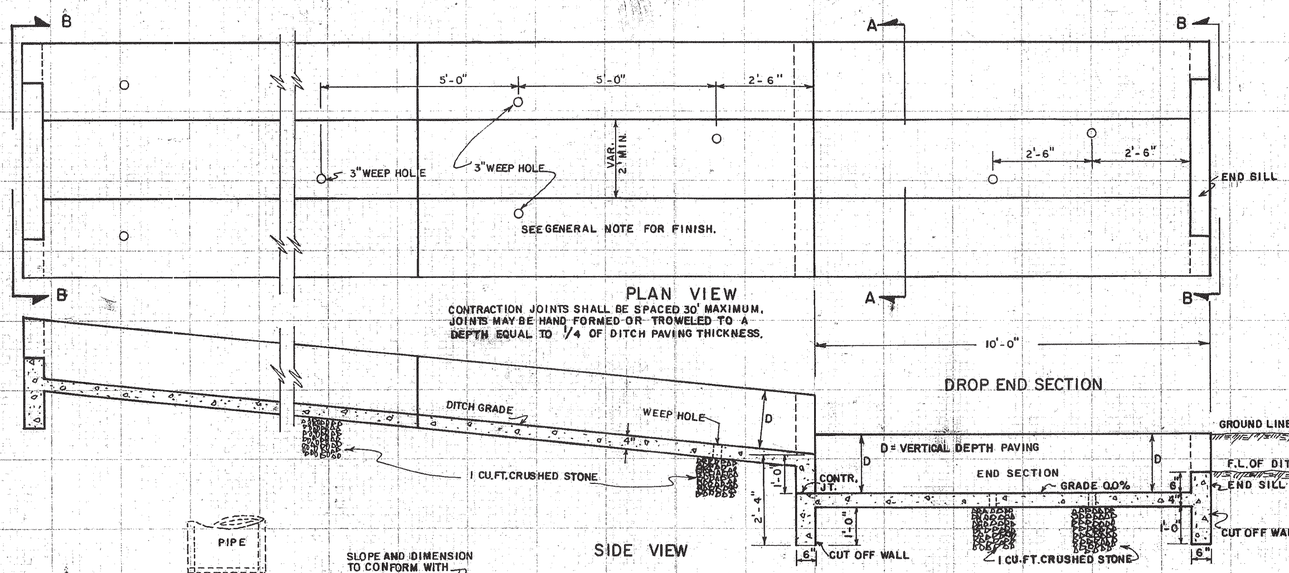
D-9

FORM EF3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

TYPICAL QUANTITIES FOR 4" CONCRETE DITCH PAVING — SQ. YDS./LIN. FT.

DEPTH (feet)	8:1 FR.SL. V BOTTOM 8:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 8:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 3:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 6:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 3:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	4:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	4:1 FR.SL. 2' BOTTOM 3:1 BK.SL.	4:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 3' BOTTOM 2:1 BK.SL.	4:1 FR.SL. 4' BOTTOM 4:1 BK.SL.	4:1 FR.SL. 4' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 4' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 5' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 6' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 7' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 8' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 9' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 10' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 12' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 14' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 16' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 18' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 20' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 25' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 30' BOTTOM 2:1 BK.SL.	DEPTH (feet)
0.50	0.895	1.118	0.899	0.846	0.794	0.898	0.789	0.735	0.684	0.680	0.575	0.470	0.581	0.902	0.797	0.692	0.804	0.915	1.026	1.137	1.248	1.359	1.581	1.804	2.026	2.248	2.470	3.026	3.581	0.50
0.75	1.343	1.565	1.238	1.158	1.081	1.236	1.072	0.982	0.915	0.909	0.752	0.594	0.706	1.131	0.974	0.817	0.928	1.039	1.150	1.261	1.372	1.483	1.706	1.928	2.150	2.372	2.594	3.150	3.706	0.75
1.00	1.791	2.031	1.576	1.469	1.367	1.573	1.356	1.249	1.146	1.138	0.928	0.719	0.830	1.360	1.151	0.941	1.052	1.163	1.274	1.385	1.496	1.608	1.830	2.052	2.274	2.496	2.719	3.274	3.830	1.00
1.25	2.239	2.461	1.915	1.781	1.652	1.911	1.639	1.506	1.377	1.367	1.105	0.843	0.954	1.589	1.327	1.065	1.176	1.287	1.398	1.510	1.621	1.732	1.954	2.176	2.398	2.621	2.843	3.398	3.954	1.25
1.50	2.687	2.909	2.253	2.093	1.939	2.249	1.923	1.763	1.608	1.596	1.282	0.967	1.078	1.818	1.504	1.189	1.300	1.412	1.523	1.634	1.745	1.856	2.078	2.300	2.523	2.745	2.967	3.523	4.078	1.50
1.75	3.135	3.357				2.587	2.206	2.019	1.839	1.825	1.458	1.091	1.202	2.047	1.680	1.314	1.425	1.536	1.647	1.758	1.869	1.980	2.202	2.425	2.647	2.869	3.091	3.647	4.202	1.75
2.00	3.583	3.805				2.925	2.490	2.276	2.070	2.054	1.635	1.218	1.327	2.276	1.857	1.438	1.549	1.660	1.771	1.882	1.993	2.104	2.327	2.549	2.771	2.993	3.216	3.771	4.327	2.00
2.25	4.031	4.253				3.263	2.773	2.533	2.301	2.283	1.812	1.340	1.451	2.505	2.034	1.562	1.673	1.784	1.895	2.006	2.118	2.229	2.451	2.673	2.895	3.118	3.340	3.895	4.451	2.25
2.50	4.479	4.701				3.601	3.057	2.790	2.533	2.512	1.988	1.464	1.575	2.735	2.210	1.686	1.797	1.908	2.020	2.131	2.242	2.353	2.575	2.797	3.020	3.242	3.464	4.020	4.575	2.50
2.75	4.926	5.149				3.939	3.340	3.047	2.764	2.741	2.165	1.588	1.699	2.964	2.387	1.810	1.922	2.033	2.144	2.255	2.366	2.477	2.699	2.922	3.144	3.366	3.588	4.144	4.699	2.75
3.00	5.374	5.597				4.277	3.624	3.303	2.995	2.970	2.341	1.712	1.824	3.193	2.564	1.935	2.046	2.157	2.268	2.379	2.490	2.601	2.824	3.046	3.268	3.490	3.712	4.268	4.824	3.00
3.25	5.822	6.044				4.615	3.907	3.560	3.226	3.200	2.518	1.837	1.948	3.422	2.740	2.059	2.170	2.281	2.392	2.503	2.614	2.726	2.948	3.170	3.392	3.614	3.837	4.392	4.948	3.25
3.50	6.270	6.492				4.953	4.191	3.817	3.457	3.429	2.695	1.961	2.072	3.651	2.917	2.183	2.294	2.405	2.516	2.628	2.739	2.850	3.072	3.294	3.516	3.739	3.961	4.516	5.072	3.50
3.75	6.718	6.940				5.291	4.474	4.074	3.688	3.658	2.871	2.085	2.196	3.880	3.094	2.307	2.418	2.530	2.641	2.752	2.863	2.974	3.196	3.418	3.641	3.863	4.085	4.641	5.196	3.75
4.00	7.166	7.388				5.629	4.758	4.331	3.919	3.887	3.048	2.209	2.320	4.109	3.270	2.432	2.543	2.654	2.765	2.876	2.987	3.098	3.320	3.543	3.765	3.987	4.209	4.765	5.320	4.00



GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. CONCRETE DITCH PAVING IS TO BE CONSTRUCTED TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. PAYMENT FOR CONCRETE DITCH PAVING INCLUDES THE CUT-OFF WALL & END SILL AT INLET AND OUTLET END OF DITCH; THE CRUSHED STONE FOR WEEP HOLES, AND EXPANSION JOINT MATERIAL.
4. A DROP END SECTION WILL BE CONSTRUCTED AS 4" CONCRETE DITCH PAVING ON THE DOWNSTREAM END OF ALL PAVED DITCHES.
5. SIDE SLOPES ON PAVED BERM AND SURFACE DITCHES SHALL BE 2:1, UNLESS MODIFIED ON CONSTRUCTION TO MEET FIELD CONDITIONS. WHEN PAVING IS PLACED IN A NORMAL ROADWAY DITCH, THE SIDE SLOPES AND BOTTOM WILL CONFORM TO THOSE SHOWN ON THE ROADWAY TYPICAL SECTION.
6. WEEP HOLES SHALL BE OMITTED IN ALL SURFACE DITCHES OF THE TOP OF CUT SLOPES. WEEP HOLES SHALL BE REQUIRED IN BERM DITCHES AND ROADWAY DITCHES WHEN PAVED.
7. SURFACE FINISH SHALL BE FLOATED SUFFICIENTLY TO COVER AGGREGATE WITH MORTAR.
8. EXPANSION JOINTS ARE REQUIRED WHERE PAVED DITCH CONNECTS TO OTHER CONCRETE STRUCTURES.
9. QUANTITIES APPLY TO ANY TYPE OF DITCH REQUIRING PROTECTION. QUANTITIES MAY ALSO BE USED FOR PERMANENT SOIL REINFORCING MAT OR OTHER KINDS OF DITCH PROTECTION ITEMIZED AS SQUARE YARDS.

CONSTRUCTION DETAILS

4" CONCRETE DITCH PAVING

DETAILS & QUANTITIES

NO SCALE

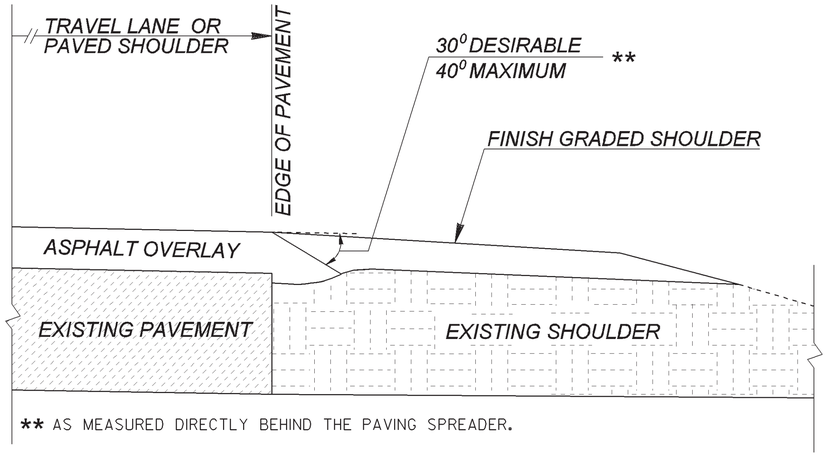
JAN. 1988

FORM EF00003

2/26/2010 11:50:56 AM \\GDOT-DSN\GOPLOT\OCE\GO_KDp8000.gcf gpwares J:\Contruction Details\English Construction Details (TIFF)\DIG41F.GO.RDS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

ASPHALT PAVEMENT - OVERLAY

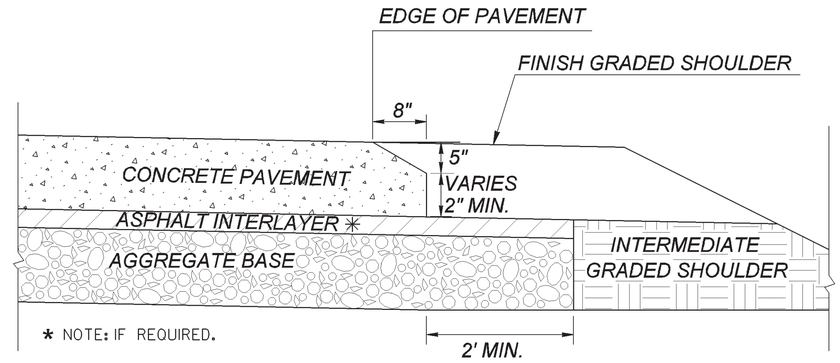


** AS MEASURED DIRECTLY BEHIND THE PAVING SPREADER.

ADDITIONAL QUANTITIES:
DEPTH OF OVERLAY (T), NO RUTTING
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) = _____ TN

DEPTH OF OVERLAY (T), WITH 1 IN. RUTTING
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) + (T) (IN.) X 0.000882 TN/IN.-FT X LENGTH (FT) = _____ TN

PLAIN PC CONCRETE PAVEMENT OR ROLLER COMPACTED CONCRETE PAVEMENT



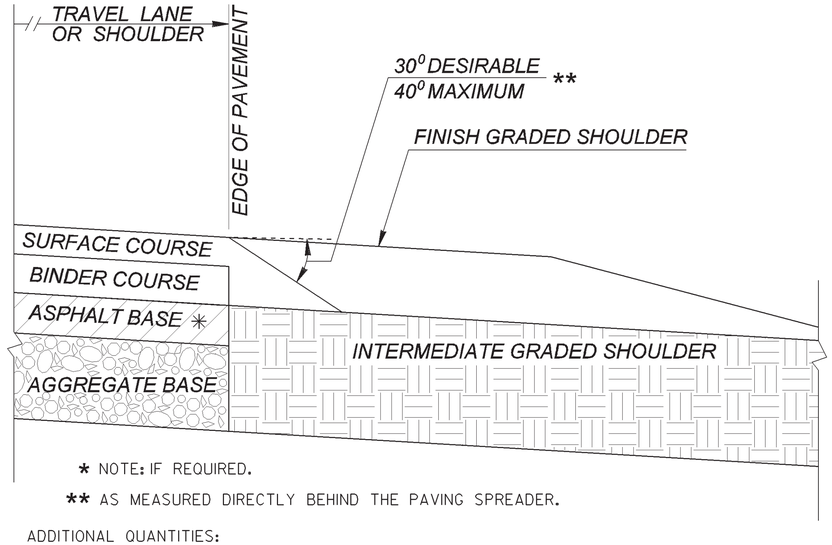
* NOTE: IF REQUIRED.

ADDITIONAL QUANTITIES:
CONCRETE
0.07407 SY/FT X LENGTH (FT) = _____ SY

ASPHALT INTERLAYER, IF REQUIRED
(T) IN. X LENGTH (FT) X 0.004074 TN/IN.-FT = _____ TN

AGGREGATE BASE (BASED ON 2.07 TN/CY)
(T) IN. X LENGTH (FT) X 0.0042592 TN/IN.-FT = _____ TN

ASPHALT PAVEMENT - NEW



* NOTE: IF REQUIRED.

** AS MEASURED DIRECTLY BEHIND THE PAVING SPREADER.

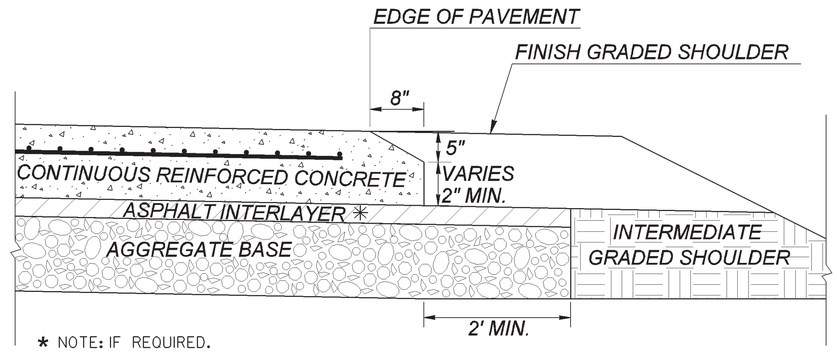
ADDITIONAL QUANTITIES:
SURFACE COURSE PAVING DEPTH (T)
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) = _____ TN

GENERAL NOTES:
1. THE SAFETY EDGE SHALL BE CONSTRUCTED AS AN INTEGRAL OPERATION OF THE ROADWAY PAVEMENT PLACEMENT PROCESS.

(ASPHALT PAVEMENT)

2. USE AN APPROVED MECHANICAL DEVICE THAT WILL:
   1. APPLY COMPACTIVE EFFORT TO THE ASPHALT MIXTURE TO ELIMINATE OBJECTABLE VOIDS AS THE MIXTURE PASSES THROUGH THE WEDGE DEVICE.
   2. PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, AND DENSITY WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHTS ENCOUNTERED ALONG THE ROADWAY SHOULDER.
3. A SINGLE-PLATE STRIKE-OFF METHOD SHALL NOT BE USED FOR BITUMINOUS PAVING, AS THE SINGLE-PLATE STRIKE-OFF METHOD HAS BEEN FOUND TO PRODUCE A NON-DURABLE EDGE.
4. COMPACTION OF THE EDGE SHOULD NOT BE DONE WITH THE FIRST PASS OF THE ROLLER: WITH THE ROLLER STAYING OFF THE EDGE AT LEAST 6 INCHES. THIS IS IN ORDER TO ALLOW THE EDGE MIX TO SLIGHTLY COOL PRIOR TO COMPACTION.
5. SHORT SECTIONS OF HANDWORK ARE ALLOWED, WHEN NECESSARY, FOR TRANSITIONS AND TURNOUTS.

CONTINUOUS REINFORCED CONCRETE PAVEMENT



* NOTE: IF REQUIRED.

ADDITIONAL QUANTITIES:
CONCRETE
0.07407 SY/FT X LENGTH (FT) = _____ SY

ASPHALT INTERLAYER, IF REQUIRED
(T) IN. X LENGTH (FT) X 0.004074 TN/IN.-FT = _____ TN

AGGREGATE BASE (BASED ON 2.07 TN/CY)
(T) IN. X LENGTH (FT) X 0.0042592 TN/IN.-FT = _____ TN

BY	DATE	REVISION
TC	11-15-11	REVISED ANGLE TOLERANCE ANGLE & ADDED NOTE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
PAVEMENT EDGE TREATMENT
ASPHALT AND CONCRETE PAVEMENT

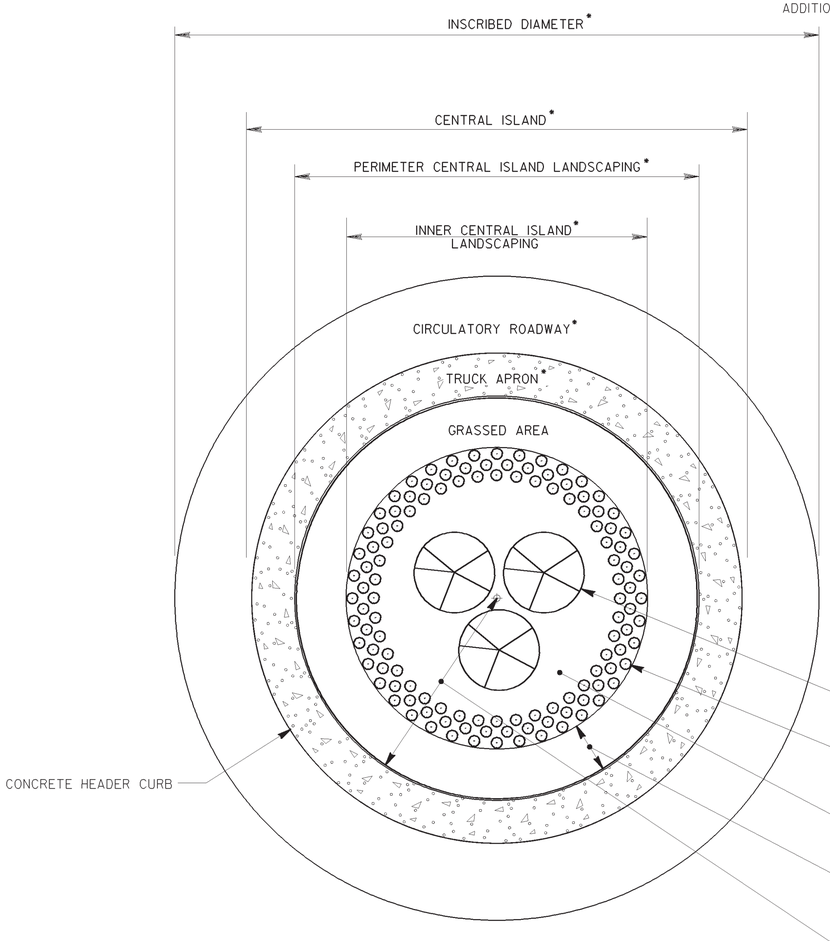
NO SCALE — SEPTEMBER 2011

DES.	B.A.S.	
DRW.	G.L.O.	
CHK.	D.G.P.	
REVIEW	B.A.S.	

NUMBER P-7

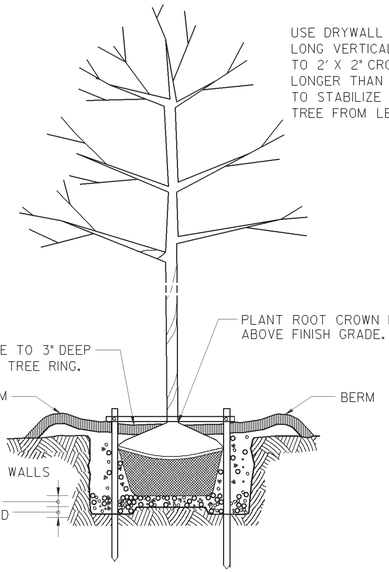
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

* SEE PLANS FOR DIMENSIONS AND ADDITIONAL DETAILS WHERE, APPLICABLE.



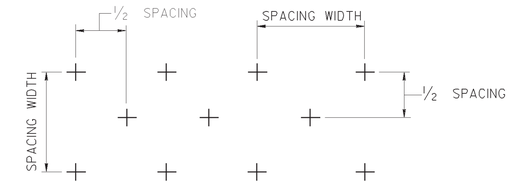
PLANTING LAYOUT

NO SCALE



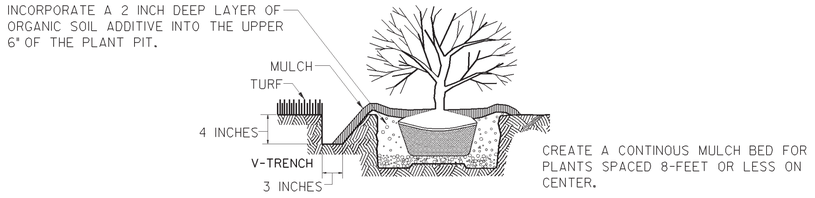
TREE PLANTING DETAIL - ELEVATION

NO SCALE



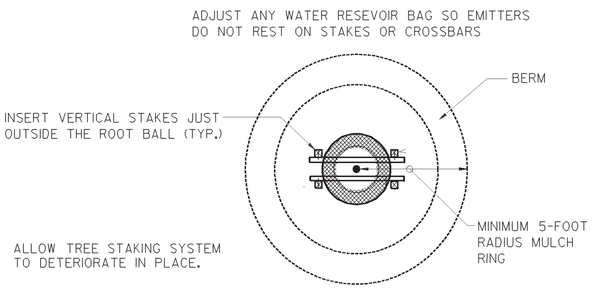
ON CENTER SPACING - STAGGERED ROW

NO SCALE



VINE AND SHRUB PLANTING DETAIL

NO SCALE



TREE PLANTING DETAIL - PLAN

NO SCALE

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SEE SPECIAL PROVISIONS 700 AND 702 FOR PLANTING REQUIREMENTS.
3. SEE PLAN SHEETS FOR THE WIDTH OF THE PERIMETER CENTRAL ISLAND LANDSCAPING.
4. THE DESIGNER MAY SPECIFY ALTERNATE PLANT MATERIALS WITH PRIOR REVIEW AND APPROVAL BY THE OFFICE OF MAINTENANCE. IF ALTERNATE MATERIALS ARE SPECIFIED, THEY WILL BE DESCRIBED ELSEWHERE IN THE PLANS.
5. THIS DETAIL CAN BE INCORPORATED INTO PROJECT PLANS AFTER THE DEPARTMENT HAS ENTERED A SEPARATE RIGHT-OF-WAY MOWING AND MAINTENANCE AGREEMENT.

BASIS OF PAYMENT:

PAY ITEM NUMBER	UNIT	PAY ITEM DESCRIPTION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
150-1000	LS	TRAFFIC CONTROL	-	-	-	-
700-9300	SY	SOD	CYNODON DACTYLON 'TIFWAY 419' SOD	HYBRID BERMUDA GRASS	-	-
702-0212	EA	CRATAEGUS VIRIDIS	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	3 INCH CALIPER	SPACING AS SHOWN
702-0470	EA	ILEX VOMITORIA	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	3 GAL	SPACING AS SHOWN
702-9005	LB	SPRING APPLICATION FERTILIZER	SPRING FERTILIZER	FERTILIZER	-	-
702-9025	SY	LANDSCAPE MULCH	-	PINE STRAW MULCH	-	-

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

ROUNDABOUT LANDSCAPING DETAILS

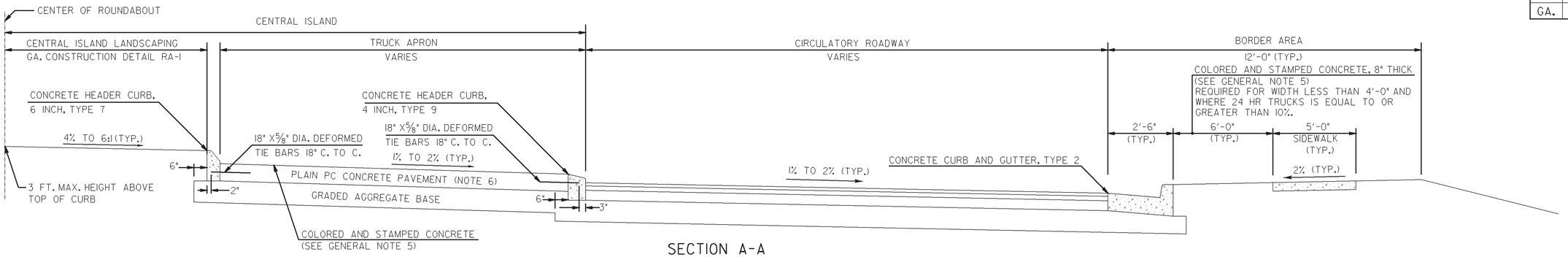
NO SCALE — SEPTEMBER 2011

DATE | REVISION | BY

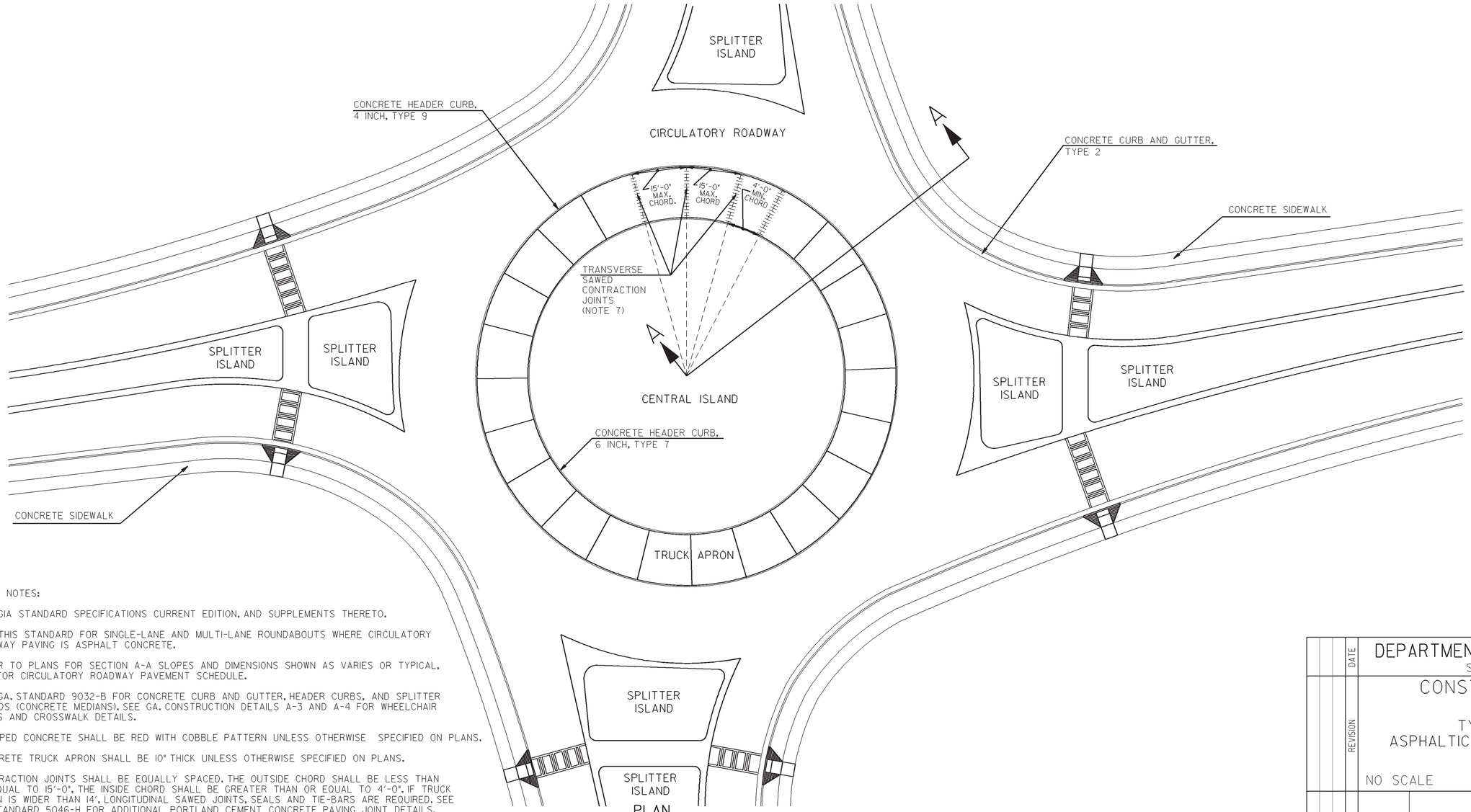
NUMBER RA-1

8/3/2012 2:29:44 PM \\GDOT-DSN1\GOPLOT\QCF\QGC.qcf tqax M:\TPC\Roundabout-TPC\RA-2\RA-2.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



SECTION A-A
NOT TO SCALE (NOTE 3)



PLAN
NOT TO SCALE

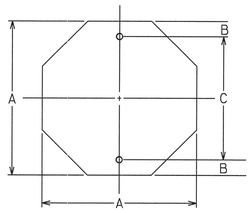
GENERAL NOTES:

1. GEORGIA STANDARD SPECIFICATIONS CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. USE THIS STANDARD FOR SINGLE-LANE AND MULTI-LANE ROUNDABOUTS WHERE CIRCULATORY ROADWAY PAVING IS ASPHALT CONCRETE.
3. REFER TO PLANS FOR SECTION A-A SLOPES AND DIMENSIONS SHOWN AS VARIES OR TYPICAL, AND FOR CIRCULATORY ROADWAY PAVEMENT SCHEDULE.
4. SEE GA. STANDARD 9032-B FOR CONCRETE CURB AND GUTTER, HEADER CURBS, AND SPLITTER ISLANDS (CONCRETE MEDIANS). SEE GA. CONSTRUCTION DETAILS A-3 AND A-4 FOR WHEELCHAIR RAMPS AND CROSSWALK DETAILS.
5. STAMPED CONCRETE SHALL BE RED WITH COBBLE PATTERN UNLESS OTHERWISE SPECIFIED ON PLANS.
6. CONCRETE TRUCK APRON SHALL BE 10" THICK UNLESS OTHERWISE SPECIFIED ON PLANS.
7. CONTRACTION JOINTS SHALL BE EQUALLY SPACED. THE OUTSIDE CHORD SHALL BE LESS THAN OR EQUAL TO 15'-0", THE INSIDE CHORD SHALL BE GREATER THAN OR EQUAL TO 4'-0". IF TRUCK APRON IS WIDER THAN 14', LONGITUDINAL SAWED JOINTS, SEALS AND TIE-BARS ARE REQUIRED. SEE GA. STANDARD 5046-H FOR ADDITIONAL PORTLAND CEMENT CONCRETE PAVING JOINT DETAILS.

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	CONSTRUCTION DETAIL ROUNDABOUT TYPICAL SECTION ASPHALTIC CONCRETE CIRCULATORY ROADWAY	
	NO SCALE — JANUARY 2012	
BY		NUMBER RA-2

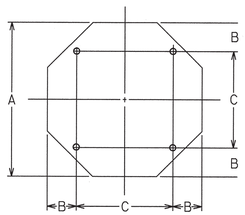
8/3/2012 2:29:44 PM \\GDOT-DSN1\GOPLOT\QCF\QGC.qcf tqax M:\TPC\Roundabout-TPC\RA-2\RA-2.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

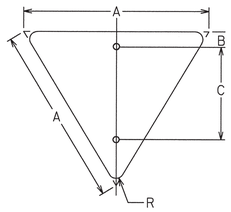


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

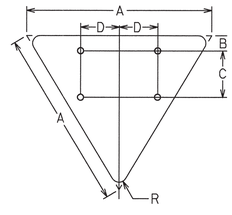


A	B	C
48	9	30

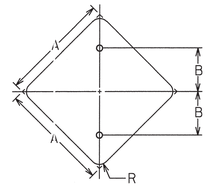


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

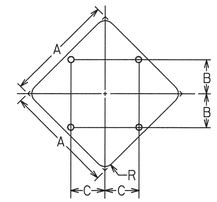


A	B	C	D	R
60	3	18	15	3



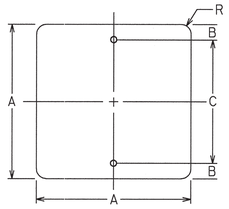
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



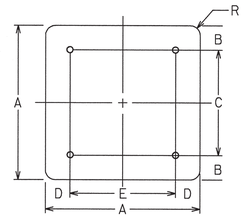
A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

*FOR TWO POST ERECTION

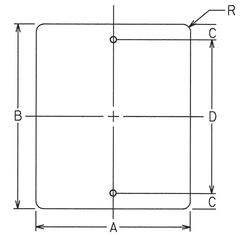


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

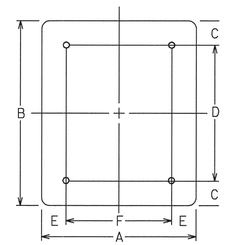


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

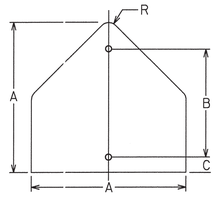


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

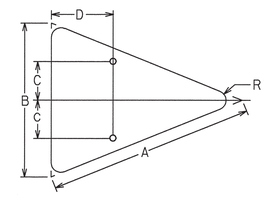


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



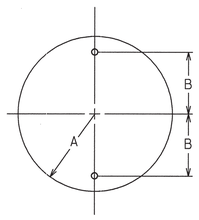
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



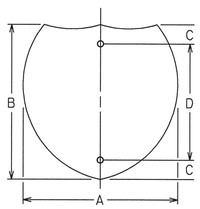
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



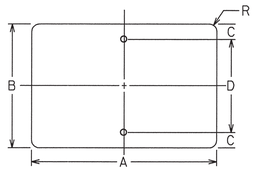
CIRCLE

A	B
15	12
18	15

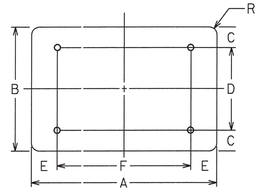


INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



HORIZONTAL RECTANGLE

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

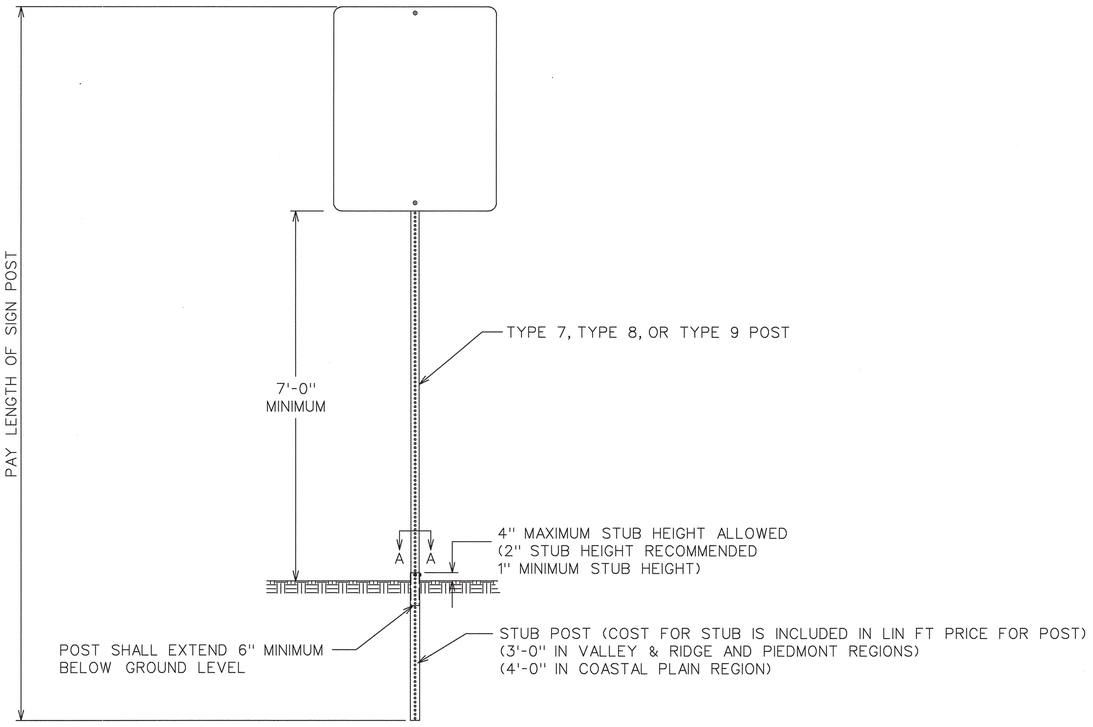
DETAILS OF
SIGN PLATES

NO SCALE JANUARY 2000

PCBDTB

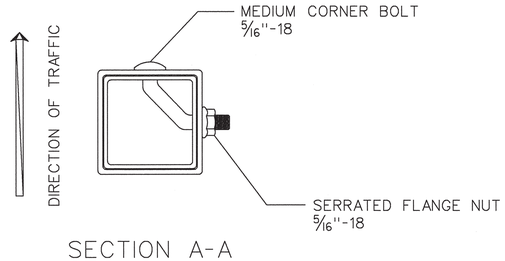
...\100sign plates.dgn 3:01:03 2007 16:10:10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert× 2-1/2" 12 ga. W/2-1/4" 14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

× TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

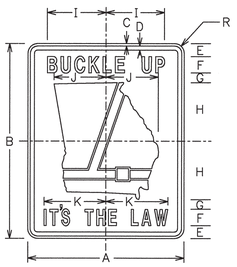
TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

PCBDTB

...\t03dpost7d89.dgn Jul. 03, 2003 16:10:11

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

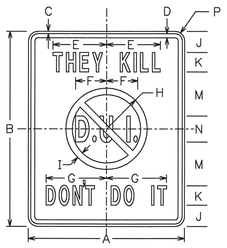


R560-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	I	J	K	R
MIN & STD	30	36	1/2	3/4	2 1/2	3C	1 1/2	11	8 1/2	10	11	1 7/8
FWY	48	60	3/4	1 1/4	4	5C	3	18	15 1/2	16	18	3

COLORS

STATE SHIELD & BORDER – RED (REFL)
LEGEND & BELT – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)

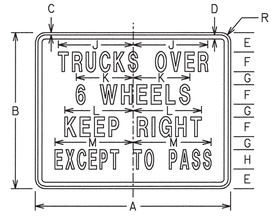


R560-2

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
MIN & STD	30	36	1/2	3/4	11	5	12 1/2	7 1/2	1 1/4	4	4C	3	4 1/2	5C	1 7/8
FWY	48	60	3/4	1 1/4	16 1/2	9 1/2	18 1/2	12 1/2	2	6 1/2	6C	5	8 1/2	8C	3

COLORS

CIRCLE & DIAGONAL – RED (REFL)
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND - WHITE (REFL)

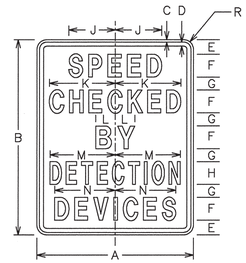


R560-3

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2 C	3	3 1/2 B	14	10	11 1/2	14 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6B	23	17 1/2	21	24	3

COLORS

LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – WHITE -(REFL)



I550-1

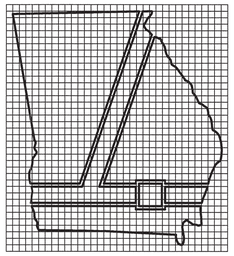
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N	R
MIN & STD	30	36	1/2	3/4	4	4D	2	4C	8 3/16	11 5/8	3 7/16	11 7/16	10 5/8	1 7/8
FWY	48	60	3/4	1 1/4	4 1/2	7D	4	7C	14 5/16	20 3/16	6	20	18 3/16	3

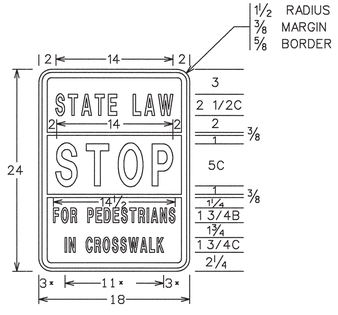
COLORS

LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)

THE I550-1 SIGN SHALL BE ERECTED:

1. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHICH INTERSECTS THE STATE LINE,
2. AT THE TERMINI OF EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM WHICH BEGINS OR ENDS WITHIN THE STATE BOUNDARIES,
3. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FROM OUTSIDE THE COUNTY FIRST ENTERS A COUNTY THAT HAS A PERMIT TO OPERATE SPEED DETERCTION DEVICES, AND
4. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FIRST ENTERS THE CORPORATE LIMITS OF ANY MUNICIPALITY THAT HAS A PERMIT TO OPERATE SPEED DETECTION DEVICES.

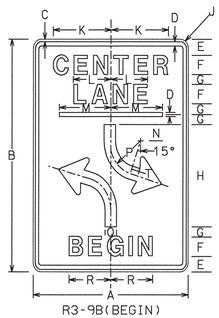




R560-5

COLORS

LEGEND & BORDER–BLACK (NON-REFL)
WORD "STOP" –RED (REFL)
BACKGROUND –WHITE (REFL)



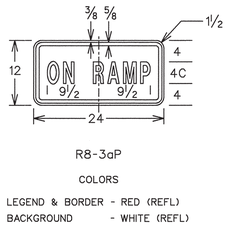
R3-9B(BEGIN)

R3-9B(END)

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
STD & MIN	24	36	3/8	5/8	2 1/2	3E	1 1/2	16	1 1/2	8 7/16	5 3/4	8	2 1/2	6	2	6 7/16	4 3/16	1 1/2
SPECIAL	36	48	5/8	7/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/16	9 1/2	12	3	8	3	7 11/16	4 15/16	2

COLORS

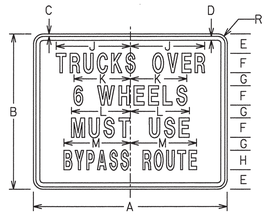
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND –WHITE (REFL)



R8-3aP

COLORS

LEGEND & BORDER - RED (REFL)
BACKGROUND - WHITE (REFL)



R560-4

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2 C	3	3 1/2 B	14	10	10	12 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6C	23	17 1/2	17 1/2	25 1/2	3

COLORS

LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND –WHITE (REFL)

DATE	REVISIONS
5-24-00	ADDED R9-8 DETAIL
1-21-03	DELETED R1-4 SIGNS
1-21-03	REV SIGN CODES FOR R3-9 SIGNS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

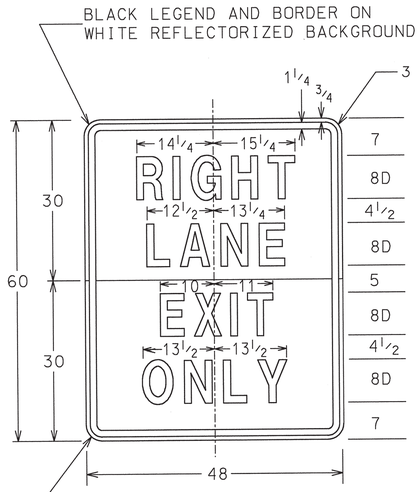
DETAILS OF
REGULATORY SIGNS
SHEET 1 OF 2

NO SCALE JANUARY 2000

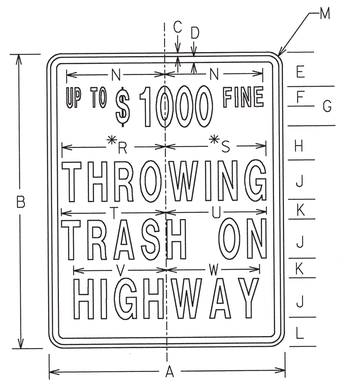
PCBDTB

...\tds\regulatory signs 1 of 2.dgn Jul 03, 2003 16:10:13

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



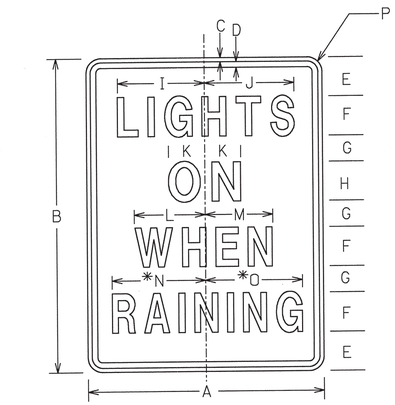
R553-7



R553-1

* REDUCE SPACING 20%

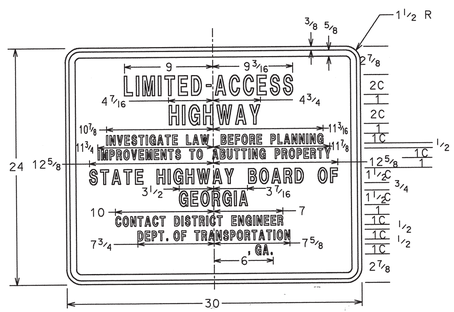
SIGN	DIMENSIONS (INCHES)																		
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S	T	U	V	W
STD & MIN	24	30	3/8	5/8	3 1/2	2B	4C	3 1/2	4C	2	3	1 1/2	10	10 1/2	10 1/4	10 3/4	10 1/8	9 3/8	9 1/2
EXPWY	36	48	5/8	7/8	6	3B	6C	6	6C	3	6	2 1/4	15	15 3/4	15 3/8	16 1/8	15 3/16	14 1/16	14 1/4
FWY	48	60	3/4	1 1/4	7	4B	7C	8	8C	4	6	3	20	21	20 1/2	21 1/2	20 1/4	18 3/4	19



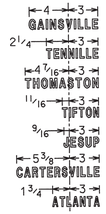
R554-1

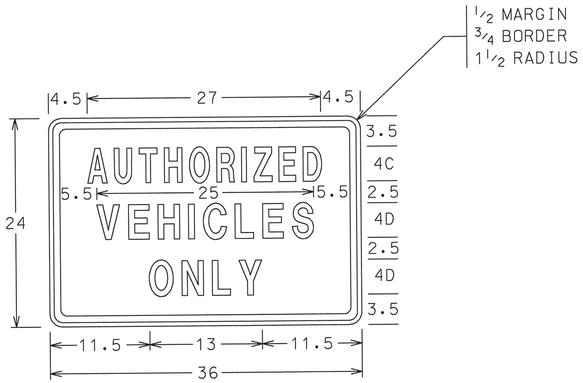
* REDUCE SPACING 30%

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
STD & MIN	24	30	3/8	5/8	3 5/8	4D	2 1/4	4E	8 3/4	9 1/4	4	6 3/4	7 1/4	9 1/4	9 3/4	1 1/2
EXPWY	36	48	5/8	7/8	6	6D	4	6E	13 1/4	13 3/4	5 1/2	10 3/4	10 1/4	14 1/4	14 3/4	2 1/4
FWY	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	8E	17 1/8	17 7/8	7	14 3/8	13 5/8	18 5/8	19 3/8	3



R552-1





R552-2

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

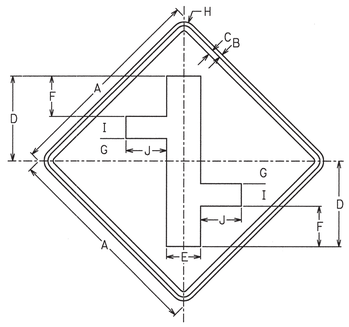
DETAILS OF
REGULATORY SIGNS
SHEET 2 OF 2

NO SCALE JANUARY 2000

PCBDT B

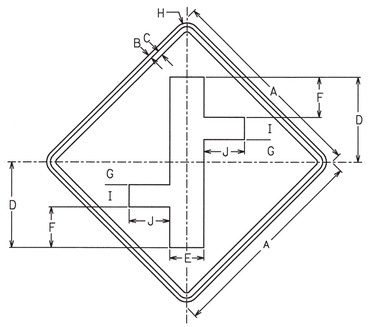
...\t05bregulatory signs 2 of 2.dgn Jan. 03, 2003 16:10:13

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



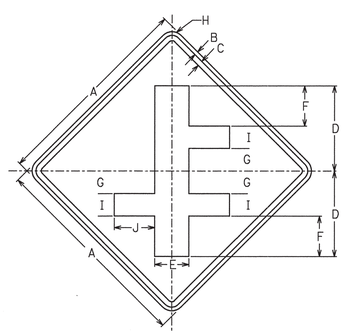
W552-1

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



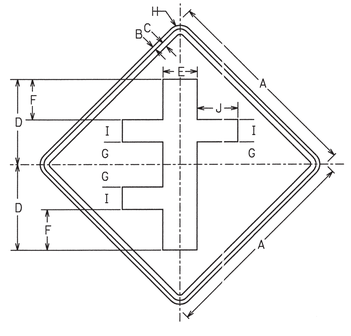
W552-2

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



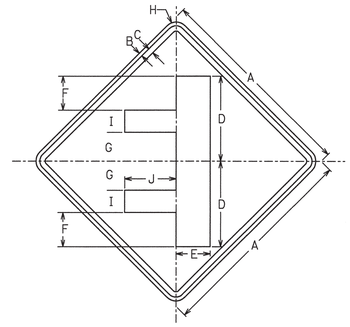
W552-3

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



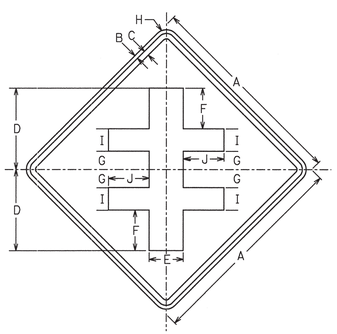
W552-4

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



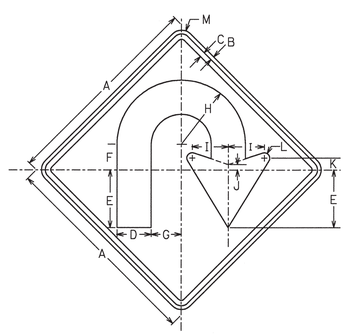
W552-5

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	5	4 1/4	1 7/8	3 1/4	8
EXPWY	36	5/8	7/8	15	6	6	5	2 1/4	4	10
FWY	48	7/8	1 1/4	20	8	8	6 3/4	3	5 1/4	12



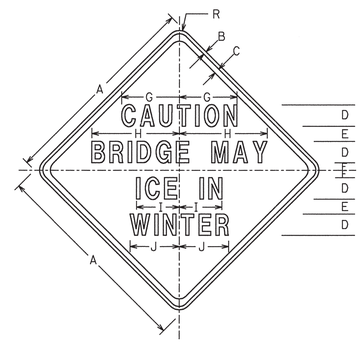
W552-6

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	5	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



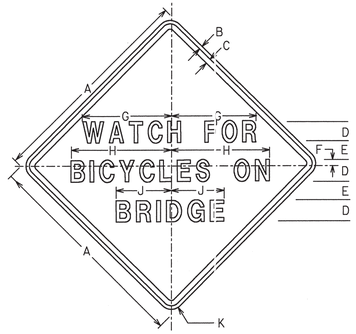
W551-1

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
STD & MIN	30	1/2	3/4	5	8 1/2	3 3/4	4 3/8	9 3/8	5 3/4	3/4	1 5/8	3/4	1 7/8
EXPWY	36	5/8	7/8	6	10	4 1/2	5 1/4	11 1/4	6 7/8	15/16	2 3/16	15/16	2 1/4
FWY	48	7/8	1 1/4	8	13 1/2	6	7	15	8 7/16	1 1/4	2 3/4	1 1/4	3



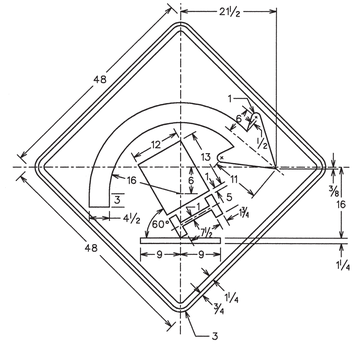
W560-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	I	J	R
MIN & STD	30	1/2	3/4	3D	2 3/16	1 3/32	8	12 1/2	6	7	1 7/8
EXPWY	36	5/8	7/8	4D	2 5/8	1 5/16	11	16 1/2	8	9	2 1/4
FWY	48	3/4	1 1/4	5D	3 1/2	1 3/4	13 1/2	20 1/2	10	11 1/2	3



W560-2

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
MIN & STD	30	1/2	3/4	3C	1 1/2	1 3/32	9 1/2	11 1/2	6	1 7/8
EXPWY	36	5/8	7/8	4C	3 1/4	2	13	15	7 1/2	2 1/4



W560-3

SIGNS SHALL HAVE YELLOW REFLECTORIZED BACKGROUNDS WITH BLACK LEGENDS, BORDERS, AND SYMBOLS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

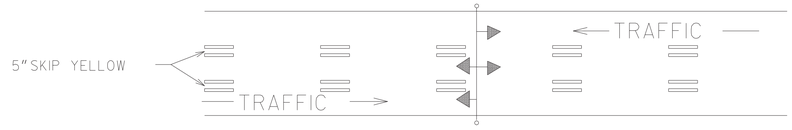
DETAILS OF
WARNING SIGNS

NO SCALE JANUARY 2000

PCBDTB

...\tDSwarning signs.dgn Jul. 03, 2003 16:10:13

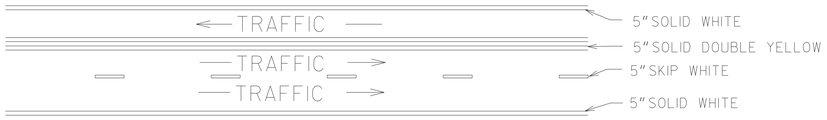
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

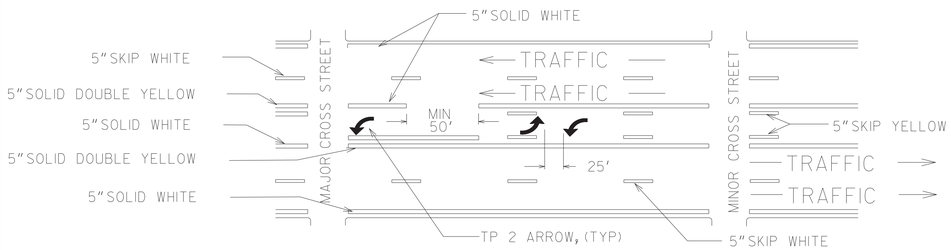
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS

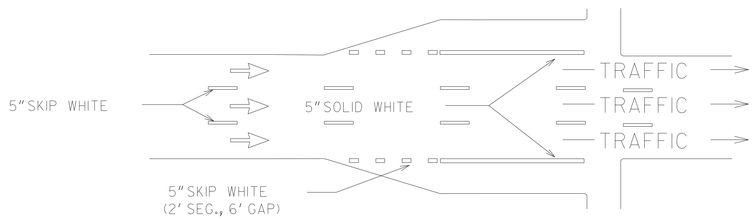


TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS

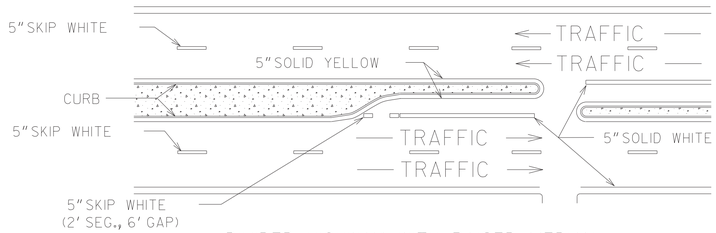
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



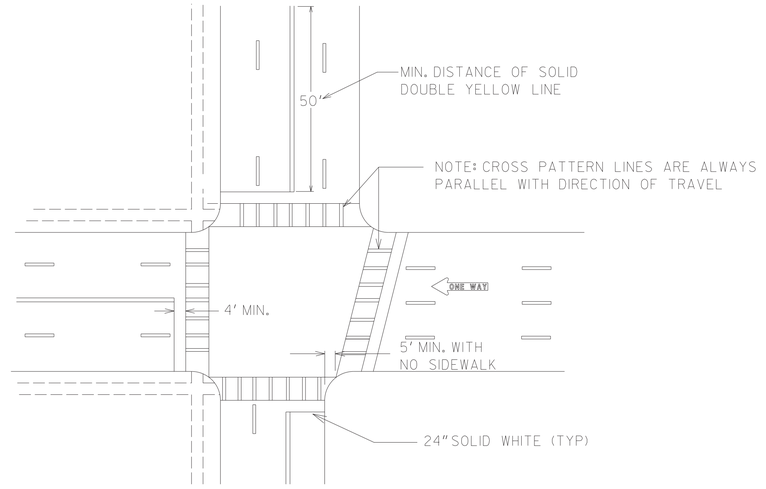
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



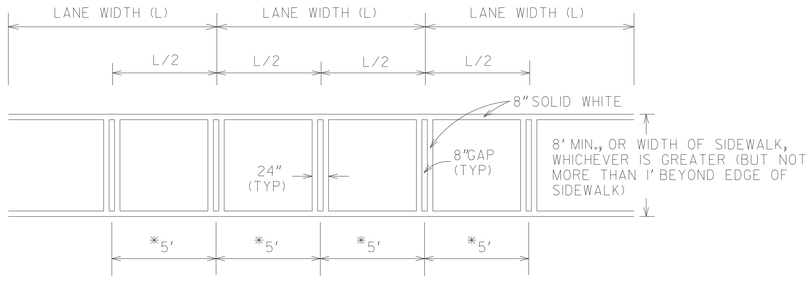
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIB.

REVISION	DATE	BY
ADDED GENERAL NOTE 3	9-15-16	CDR

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY

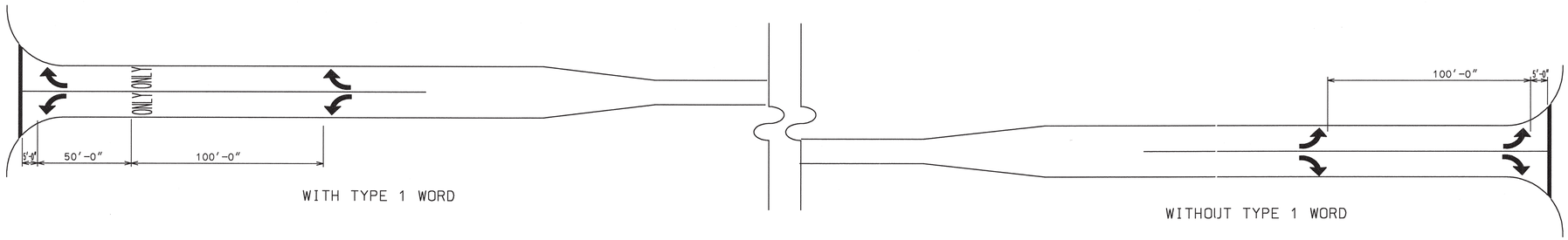
NO SCALE — JANUARY 2000

DESIGNED
DRAWN
TRACED
CHECKED

NUMBER
T-IIA

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

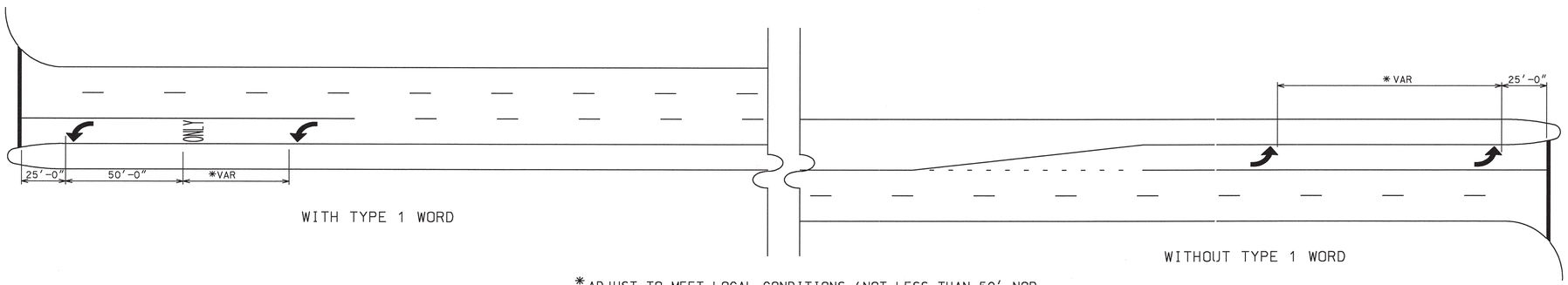
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

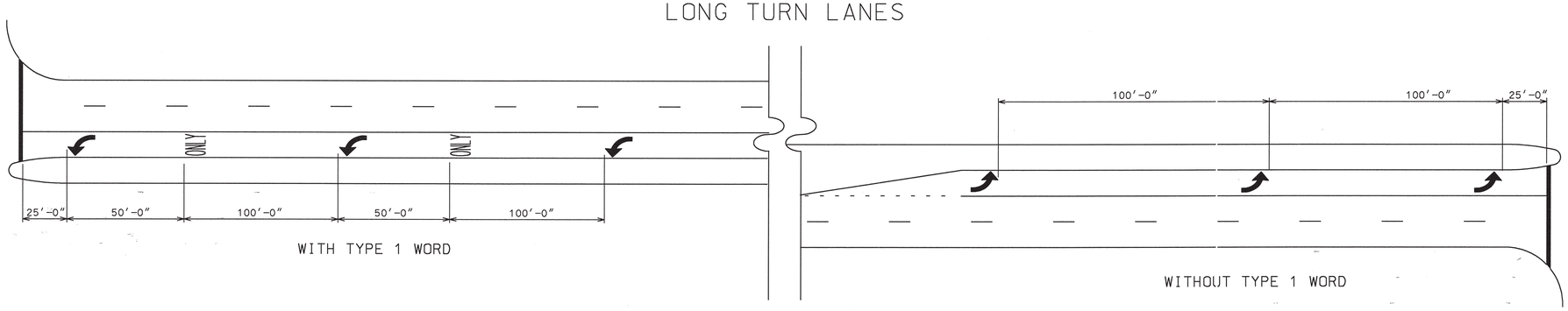


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

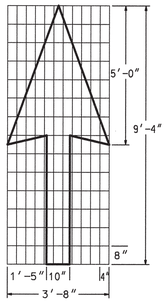
DETAILS OF
PAVEMENT MARKING
ARROW LOCATION

NO SCALE JANUARY 2000

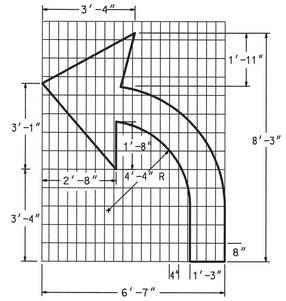
PCBDTB

...\t12arrow location.dgn Jul 03, 2003 16:10:15

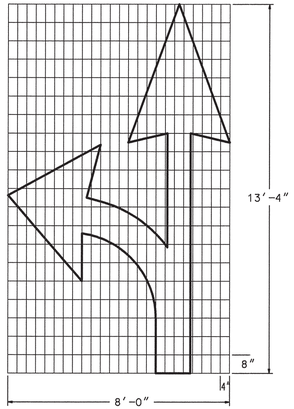
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



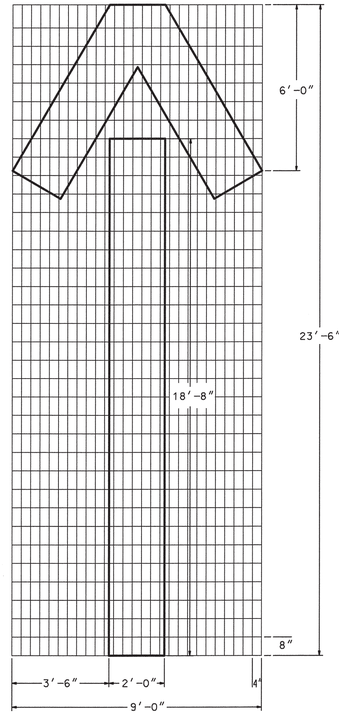
PAVEMENT MARKING, ARROW, TYPE 1
WHITE
(12.0 SQ. FT.)



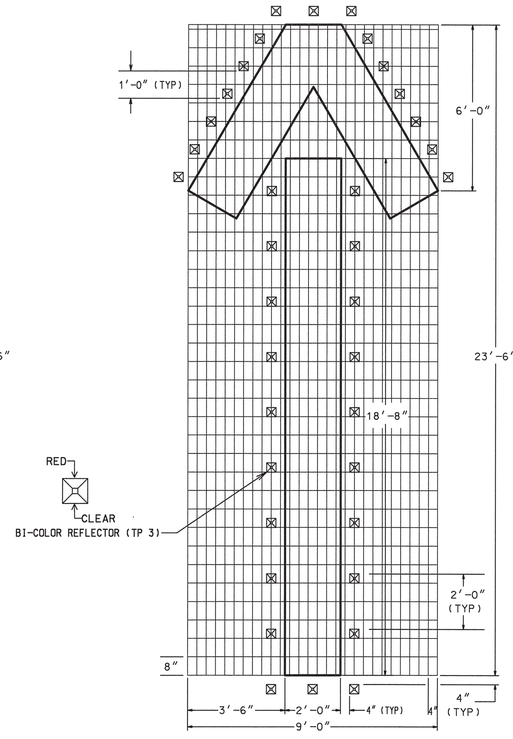
PAVEMENT MARKING, ARROW, TYPE 2
WHITE
(16.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 3
WHITE
(28.5 SQ. FT.)

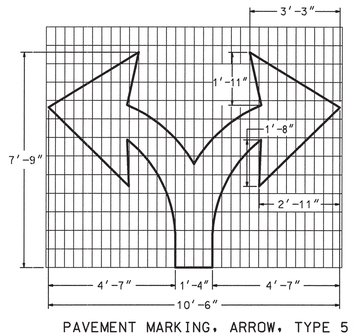


PAVEMENT MARKING, ARROW, TYPE 4
WHITE
(64.5 SQ. FT.)

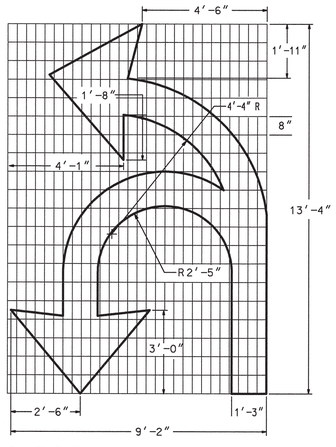


PAVEMENT MARKING, ARROW, WRONG WAY
WHITE
(64.5 SQ. FT.)

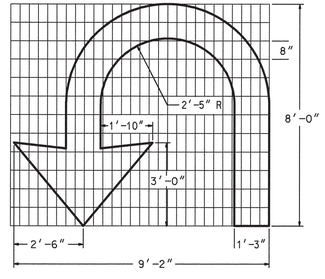
ARROW- WHITE REFLECTORIZED PAINT THERMOPLASTIC, AS SPECIFIED BY GEORGIA STANDARD SPECIFICATIONS, SECTION 655.



PAVEMENT MARKING, ARROW, TYPE 5
WHITE
(25.5 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 6
WHITE
(42.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 7
WHITE
(26.0 SQ. FT.)

DATE	REVISIONS
4-11-00	CHANGED LOCATION OF RPMs ON WRONG WAY ARROW

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

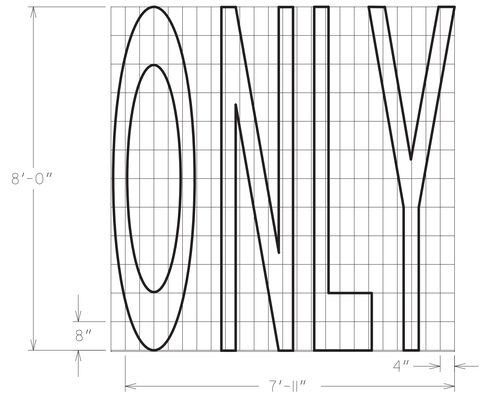
DETAILS OF
PAVEMENT MARKINGS-ARROWS

NO SCALE JANUARY 2000

PCBDTB

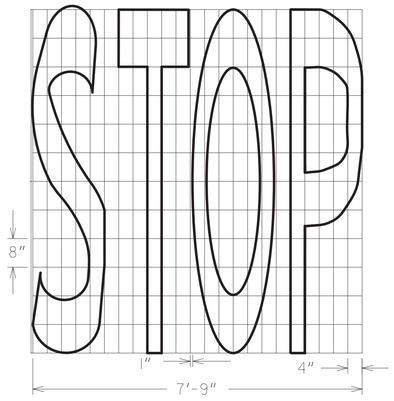
...\t12barrows.dgn JUL 03, 2003 16:10:16

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



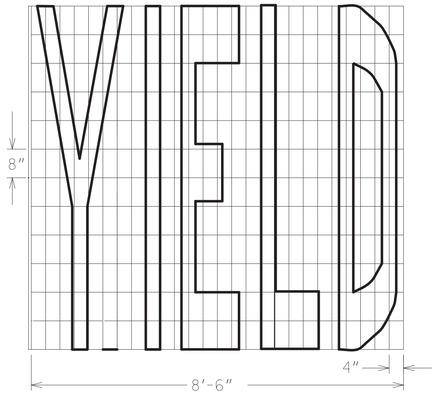
TYPE 1

AREA = 20.8 FT ^{2}



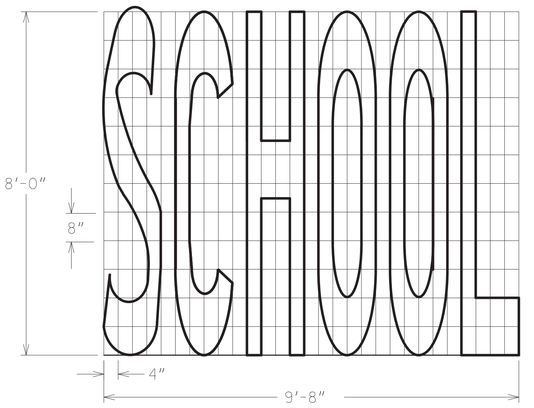
TYPE 2

AREA = 25.4 FT ^{2}



TYPE 15

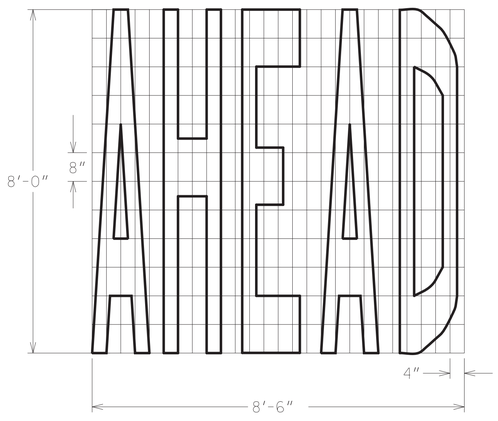
AREA = 25.4 FT ^{2}



TYPE 3A

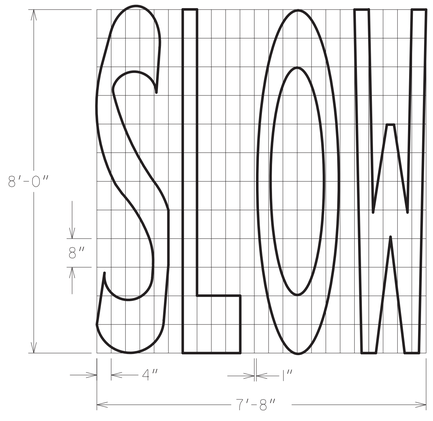
(SINGLE LANE)

AREA = 33.5 FT ^{2}



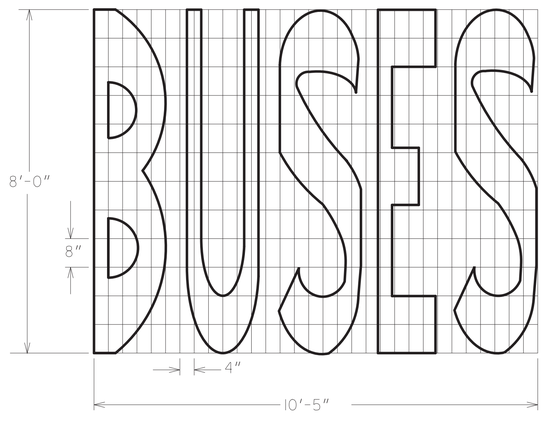
TYPE 4

AREA = 29.1FT ^{2}



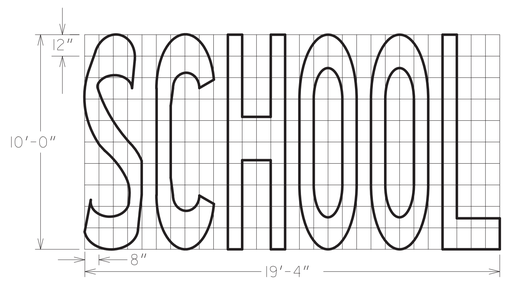
TYPE 5

AREA = 25.4 FT ^{2}



TYPE 6

AREA = 38.1FT ^{2}



TYPE 3B

(TWO LANES)

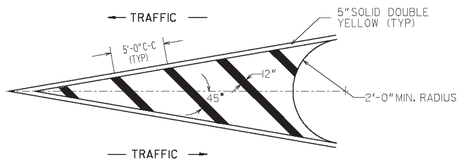
AREA = 85.0 FT ^{2}

9-15-16	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
RENUMBER TO SH 1 OF 3	REVISION	CONSTRUCTION DETAILS DETAILS OF PAVEMENT MARKING WORDS NO SCALE SHEET 1 OF 3 JANUARY 2000
CDR	BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____

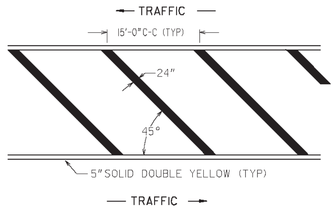
NUMBER T-13A

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
ROCKDALE	0006932		

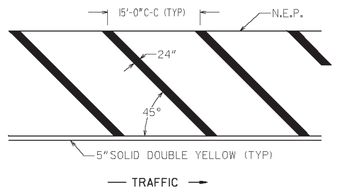
DETAIL "A" (YELLOW)



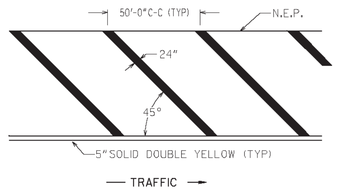
DETAIL "B" (YELLOW)



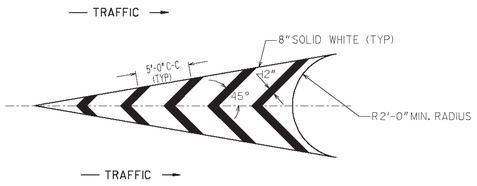
DETAIL "C" (YELLOW)



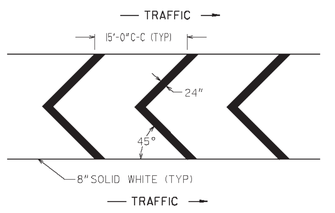
DETAIL "D" (YELLOW)



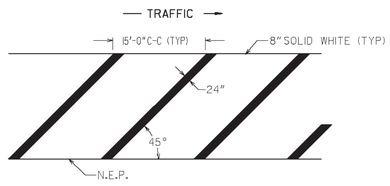
DETAIL "A" (WHITE)



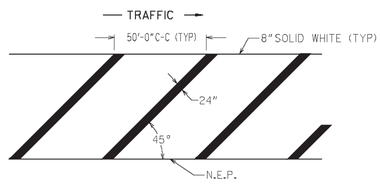
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

GEORGIA
DEPARTMENT OF TRANSPORTATION

- NO SCALE -

DATE	REVISIONS
6/25/04	Modified general note 1
1/18/05	CHANGED BORDER
11/21/08	Modified general note 1

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS

SIGNING AND MARKING PLANS

T-14

DETAIL OF PAVEMENT MARKING HATCHING

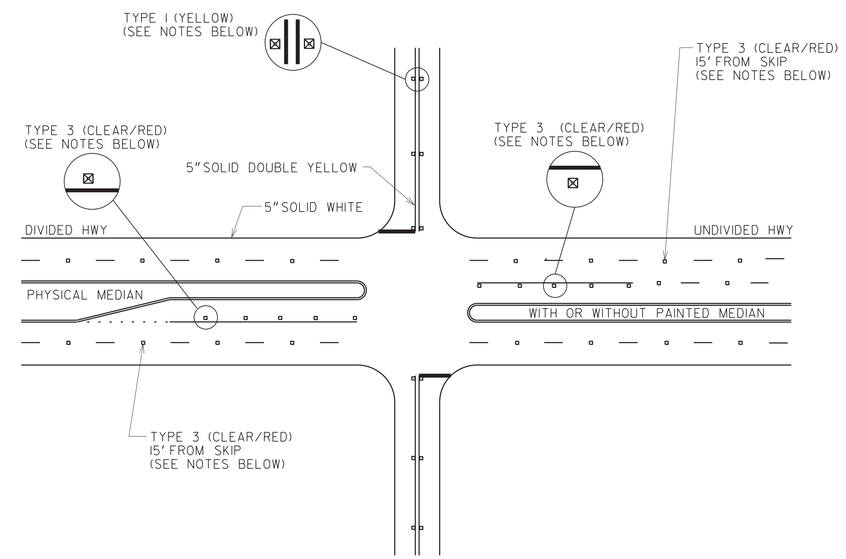
JANUARY 2000

NUMBER T -14

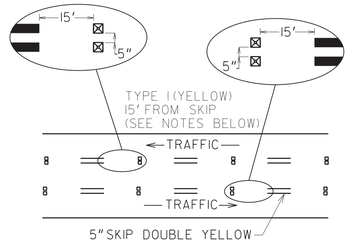
...\T14HATCHING.DGN 12/11/2008 1:21:18 PM pealen

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

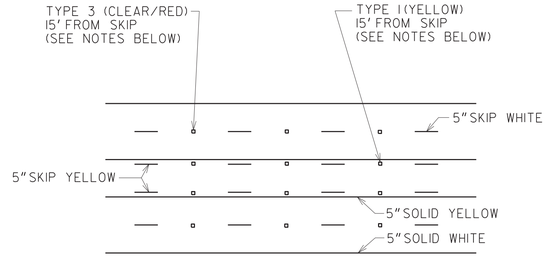
DIVIDED / UNDIVIDED HIGHWAY



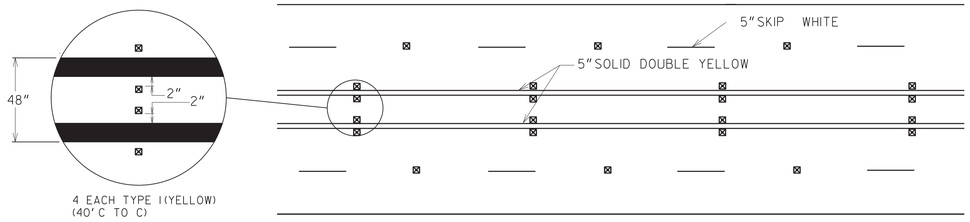
REVERSIBLE LANE



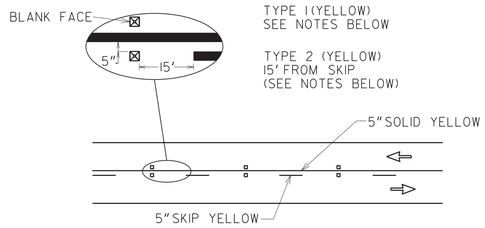
TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



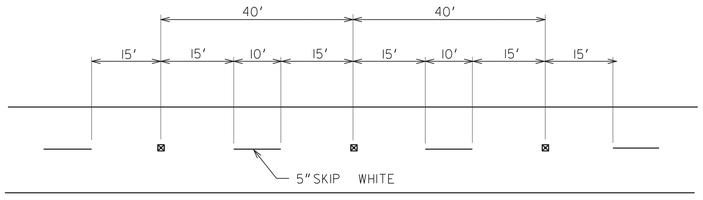
NO PASSING ZONE



GENERAL NOTES:

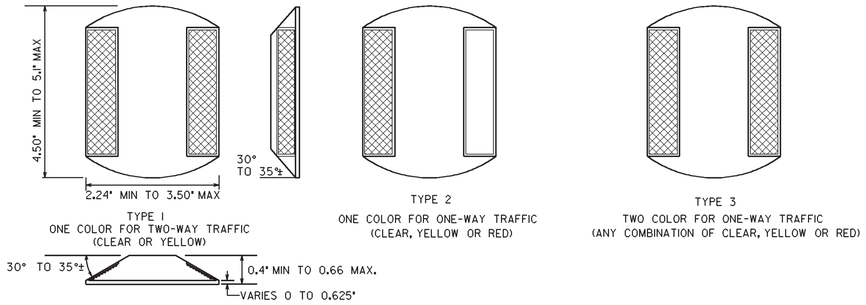
1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

TYPICAL RPM/STRIPE SPACING



9-15-2016	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REV. RPM SPACING TO 40'	CONSTRUCTION DETAILS RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	
REVISION	NO SCALE — REV. AND REDRAWN, JUNE 2015	
CDR BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____	NUMBER T-15A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

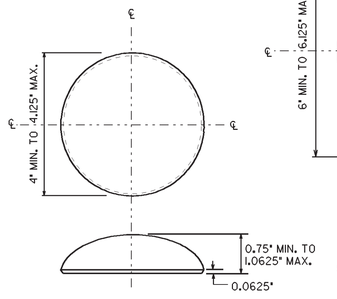


TYPE 1
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)

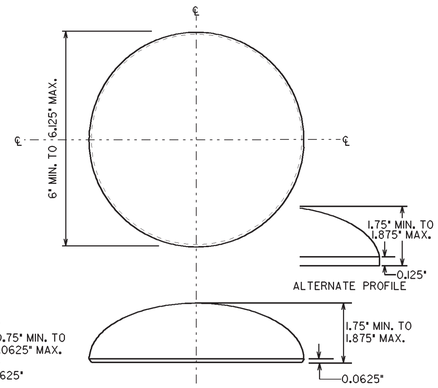
TYPE 2
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW OR RED)

TYPE 3
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW OR RED)

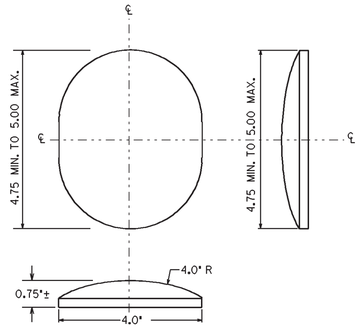
RAISED REFLECTIVE MARKERS



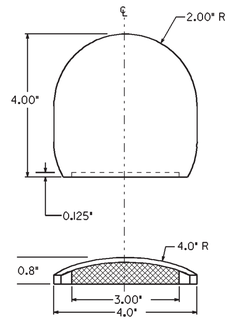
TYPE 4
OPAQUE CERAMIC MARKER
(WHITE, YELLOW OR BLACK)



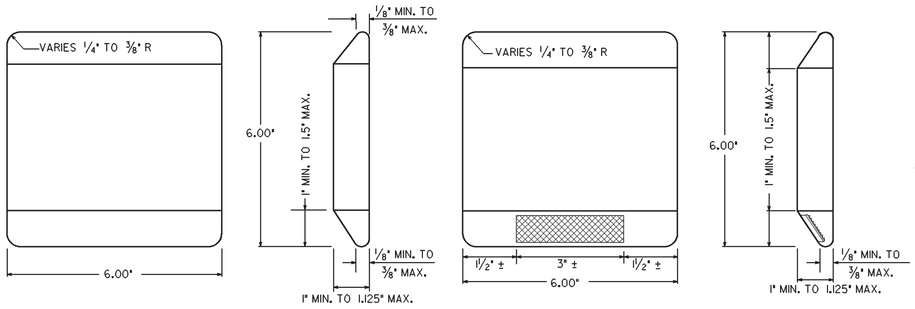
TYPE 4
OPAQUE CERAMIC MARKER
(WHITE, YELLOW OR BLACK)



TYPE 5
OVAL CERAMIC MARKER
(NON-REFLECTIVE WHITE, YELLOW OR BLACK)



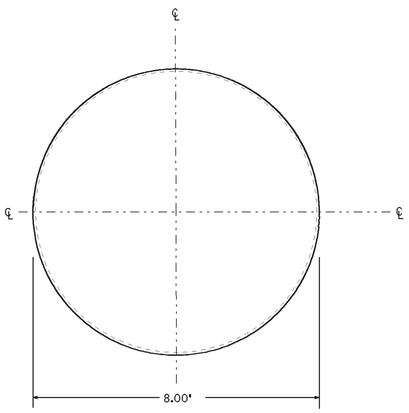
TYPE 6
REFLECTIVE CERAMIC MARKER
(REFLECTIVE WHITE, YELLOW OR BLACK)



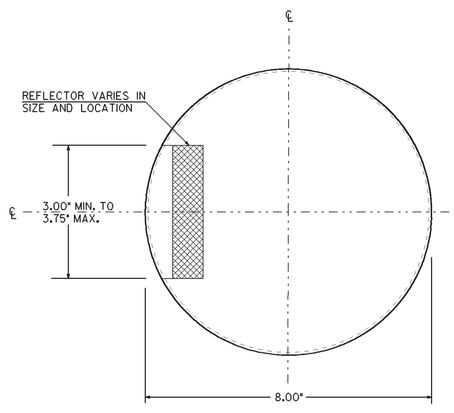
TYPE 7
NON-REFLECTIVE MARKER
(WHITE OR YELLOW)

TYPE 8
REFLECTIVE MARKER
(WHITE OR YELLOW)

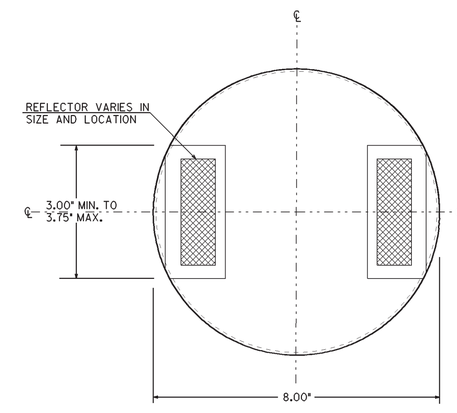
CERAMIC JIGGLE BAR MARKER



TYPE 9
NON-REFLECTIVE
(WHITE OR YELLOW)



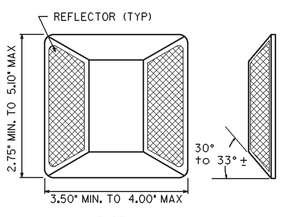
TYPE 10
REFLECTIVE
ONE REFLECTOR
(WHITE OR YELLOW)



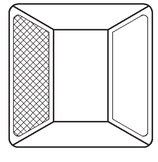
TYPE 10
REFLECTIVE
TWO REFLECTOR
(WHITE OR YELLOW)

TYPE 12
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW, OR RED)

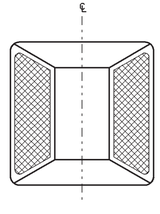
CERAMIC CHANNEL MARKER



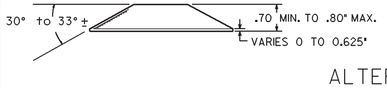
TYPE 11
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)



TYPE 12
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW, OR RED)



TYPE 13
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW, OR RED)



ALTERNATE RAISED REFLECTIVE MARKERS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERE TO.
2. THE CONTRACTOR SHALL USE RAISED PAVEMNT MAKER SOURCES AS LISTED IN OPL 76.
3. COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
4. THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
5. THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
6. COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

DATE	REVISIONS
9-22-11	REV. DIMENSIONS, ADDED
	NOTES TO MARKERS
	AND REV. GEN. NOTES.

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT MARKERS

NO SCALE JANUARY 2000

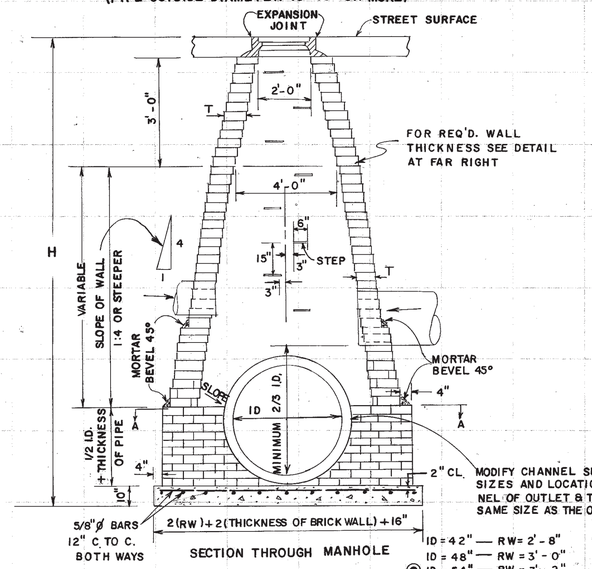
PCRRSH

PCSDTB

T-15C

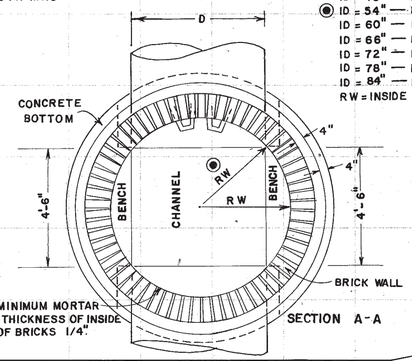
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS 48" OR MORE)



SECTION THROUGH MANHOLE

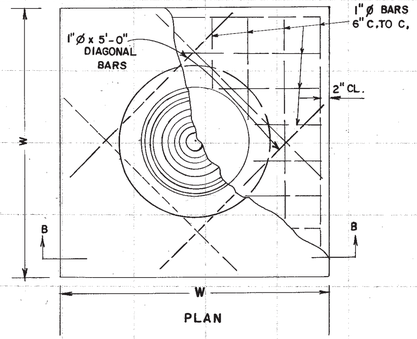
◉ ID = 42" — RW = 2'-8"
ID = 48" — RW = 3'-0"
◉ ID = 54" — RW = 3'-2"
ID = 60" — RW = 3'-4"
ID = 66" — RW = 3'-7"
ID = 72" — RW = 3'-9"
ID = 78" — RW = 3'-11"
ID = 84" — RW = 4'-2"
RW = INSIDE RADIUS OF WALL

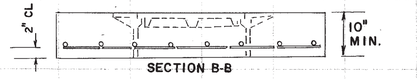


NOTE: MINIMUM MORTAR JOINT THICKNESS OF INSIDE EDGE OF BRICKS 1/4"

SECTION A-A

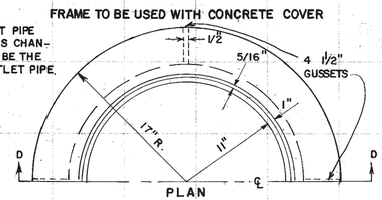
REINFORCED CONCRETE COVER

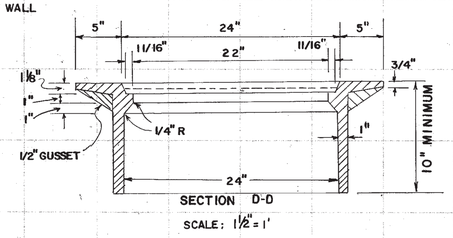




SECTION B-B

FRAME TO BE USED WITH CONCRETE COVER

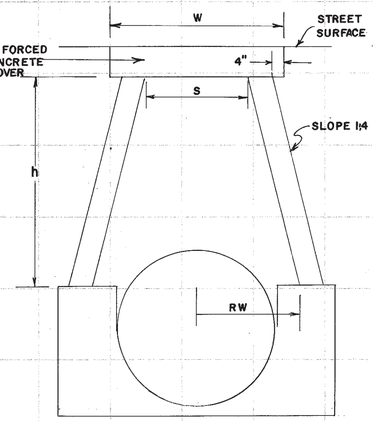




SECTION D-D

SCALE: 1 1/2" = 1'

PLACEMENT FOR CONCRETE COVER



FORMULA FOR COMPUTING W
RW = INSIDE RADIUS OF WALL
S = 2RW − 1/2
W = S + 24"

NOTE: USE CONCRETE COVER WITH MANHOLE CASTINGS IF FILL FROM TOP OF PIPE TO FINISHED SURFACE IS LESS THAN:

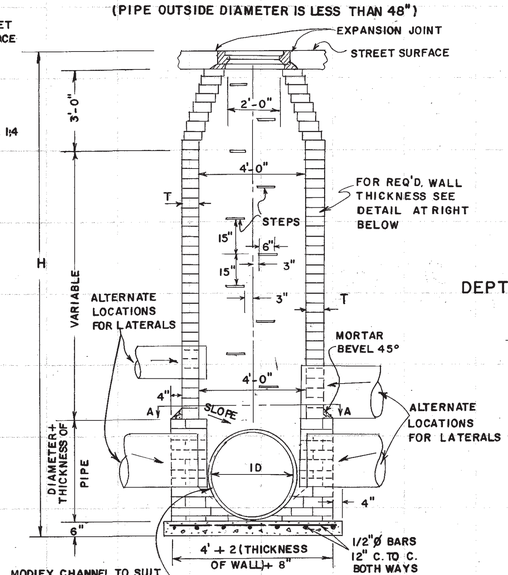
4'-6"	FOR 42" PIPE
5'-0"	FOR 48" PIPE
5'-6"	FOR 54" PIPE
6'-0"	FOR 60" PIPE
6'-6"	FOR 66" PIPE
7'-0"	FOR 72" PIPE
7'-6"	FOR 78" PIPE
8'-0"	FOR 84" PIPE

THICKNESS OF BRICK WALL
(SEE DETAIL AT FAR RIGHT)

DEPTH	THICKNESS (T)
TO 10'	*8" MIN.
10' TO 20'	12" MIN.
20' TO 30'	16" MIN.

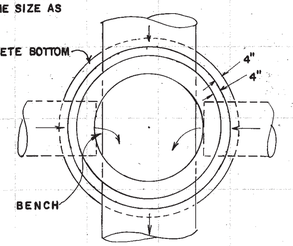
*FOR COMBINATION BRICK & PRECAST M.H. (SEE BELOW) ONLY 12" OR 16" BRICK WALL THICKNESS IS TO BE USED FOR BASE.

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS LESS THAN 48")



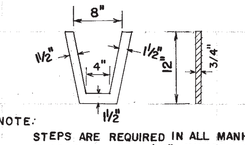
MODIFY CHANNEL TO SUIT PIPES AND LOCATIONS. CHANNEL AT OUTLET END TO BE THE SAME SIZE AS OUTLET PIPE.

SECTION THROUGH MANHOLE



SECTION A-A

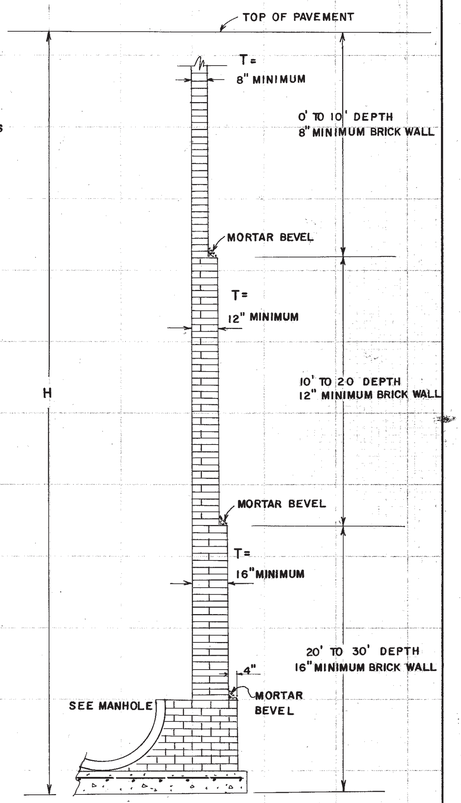
CAST IRON STEP



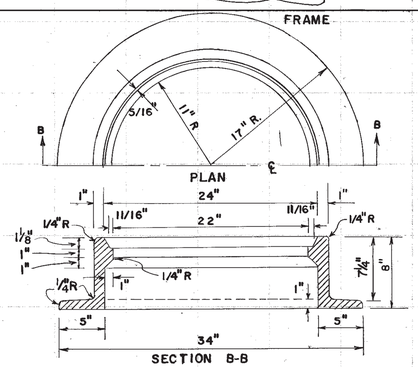
SCALE: 1 1/2" = 1'

NOTE:
STEPS ARE REQUIRED IN ALL MANHOLES WHERE "H" IS GREATER THAN 4'-0" NUMBER AND LOCATION OF STEPS TO BE AS DIRECTED BY THE ENGINEER. PLASTIC OR RUBBER COATED STEPS LISTED IN THE GA. D.O.T. QUALIFIED PRODUCTS MANUAL MAY BE SUBSTITUTED.

DEPTH LIMITS FOR INCREASING WALL THICKNESS



MANHOLE CASTINGS

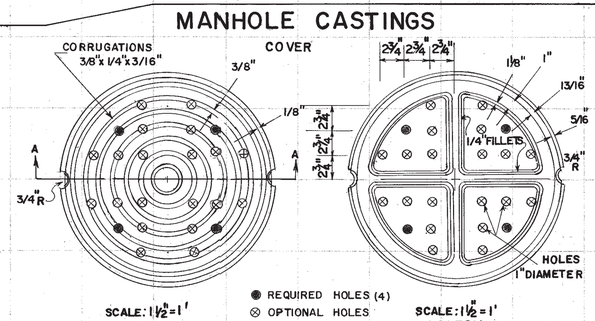


SECTION B-B

SCALE: 1 1/2" = 1"

APPROXIMATE WEIGHTS

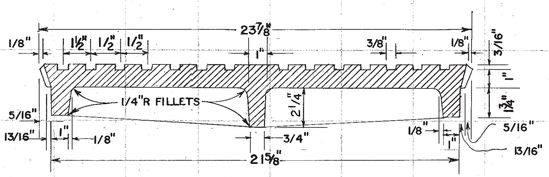
C.I. FRAME	282 LBS.
C.I. COVER	178 LBS.



SCALE: 1 1/2" = 1' TOP

● REQUIRED HOLES (4)
⊗ OPTIONAL HOLES

SCALE: 1 1/2" = 1' BOTTOM



SECTION A-A

SCALE 3" = 1'

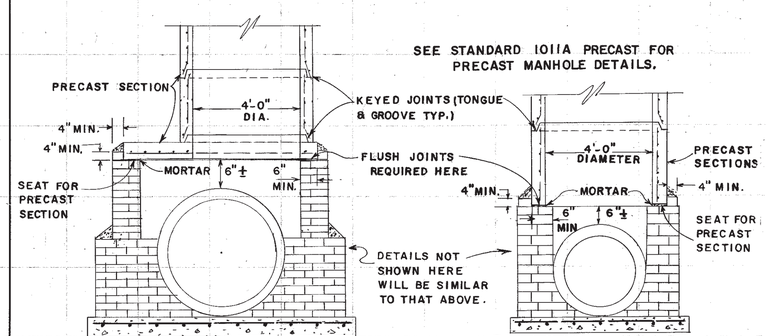
NOTE: COVER AND FRAME MUST BE FITTED BEFORE LEAVING SHOP. PAINT ACTUAL WEIGHT OF EACH CASTING ON ITS FACE.

MANHOLE FRAME & COVER SHOWN ON STD. 1011 A PRECAST MAY BE USED AN ALTERNATE TO CASTINGS SHOWN HERE.

ALTERNATE - COMBINATION BRICK & PRECAST MAN HOLES

NOTES FOR COMBINATION MANHOLE:
— BRICK PORTION OF MANHOLE WILL BE CONSTRUCTED WITH SEAT TO GIVE BEST POSSIBLE FIT FOR PRECAST UNIT. MINIMUM THICKNESS FOR BRICK WALL WILL BE 12" FOR H TO 20 FT. AND 16" FOR H=20 FT. TO 30 FT.
— PRECAST UNIT WITHOUT TONGUE OR GROOVE AT BOTTOM SHALL BE PLACED IN BRICK SEAT WITH MORTAR IN JOINT ALL ROUND. BRICK BASE SHALL SET FOR 24 HOURS MIN. BEFORE PRECAST SECTIONS ARE INSTALLED.
— STEPS IN THE BRICK PORTION OF MANHOLE WILL BE IN ALIGNMENT WITH AND MATCH THE STEPS IN THE PRECAST SECTIONS RATHER THAN AS SHOWN FOR THE ALL BRICK MANHOLES.

SEE STANDARD 1011A PRECAST FOR PRECAST MANHOLE DETAILS.



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
BRICK MANHOLES

SCALE AS SHOWN — REV.& R E D R. OCTOBER, 1981

DES. 8-58
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

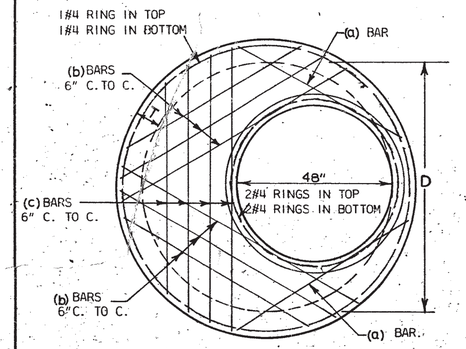
(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moreland
STATE HIGHWAY ENGINEER

NUMBER 1011A

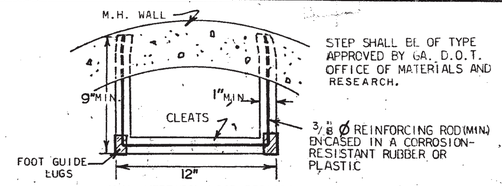
TELEDYNE POST N3121

FORM EF6

STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
GA.	0006932		



PLAN OF STEEL REINFORCEMENT



STEP SHALL BE OF TYPE APPROVED BY GA. D.O.T. OFFICE OF MATERIALS AND RESEARCH.

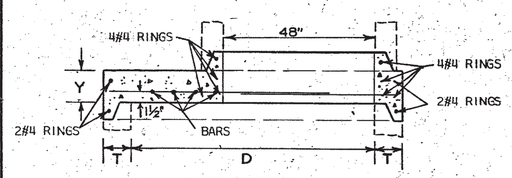
3/8 Ø REINFORCING ROD (MIN) ENCASED IN A CORROSION-RESISTANT RUBBER OR PLASTIC

MIN. VERTICAL LOAD RESISTANCE = 400 LBS.
MIN. PULLOUT RESISTANCE = 700 LBS.

STEP DETAIL

D	Y MIN.	(a) BARS No.	(a) BARS SIZE	(b) BARS No.	(b) BARS SIZE	(c) BARS No.	(c) BARS SIZE
60"	8"	2	#6	4	#6	2	#6
72"	9"	2	#6	6	#6	4	#6

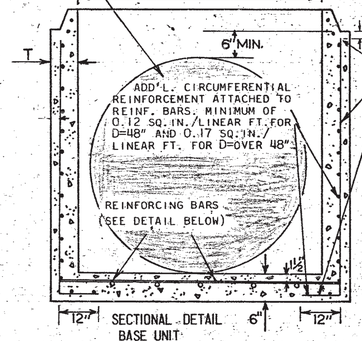
NOTE: 10 FT. MAXIMUM ALLOWANCE COVER ABOVE TOP OF REDUCER SLABS. REDUCER CONES TO BE USED WHERE REDUCER SLABS NOT PERMITTED.



SECTIONAL DETAIL
REDUCER SLAB

D = INSIDE DIAMETER OF BASE UNIT

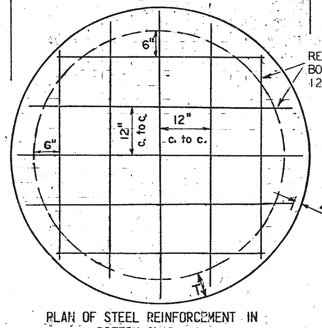
PRECAST HOLE FOR PIPE.
SEE GEN. NOTES NO. 3, 4, & 5



SECTIONAL DETAIL
BASE UNIT

BASE UNIT SHALL CONTAIN IN ADDITION TO A.S.T.M. C-478 REINFORCEMENT, TWO NO. 5 VERTICAL BARS AT EACH OPENING EXTENDING FROM WITHIN 2" OF JOINT DOWN WALL INTO BOTTOM SLAB AS SHOWN MINIMUM 2" CLEARANCE ALL AROUND.

D	T (MIN)
48"	5"
60"	5"
72"	6"

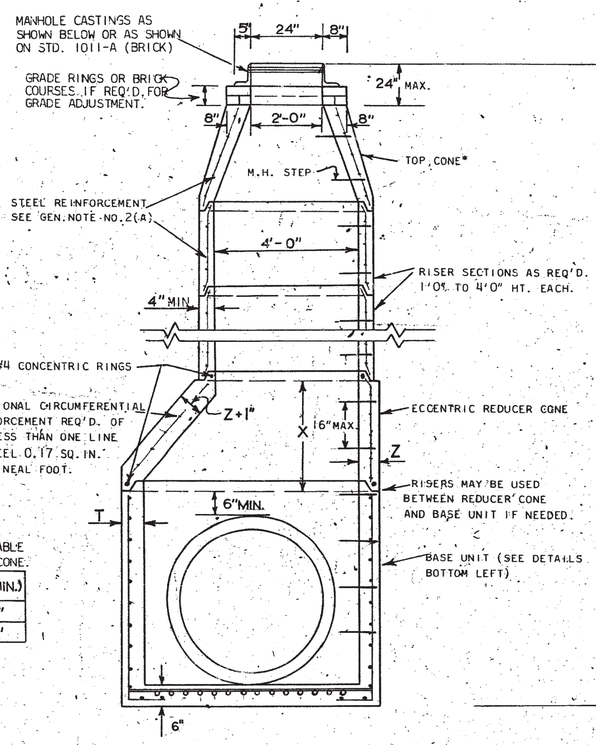


PLAN OF STEEL REINFORCEMENT IN BOTTOM SLAB
BASE UNIT

REINFORCING BARS IN TOP OF BOTTOM SLAB MAXIMUM SPACING 12" C. TO C. BOTH WAYS

D	BAR SIZE
48"	#5
60"	#6
72"	#6

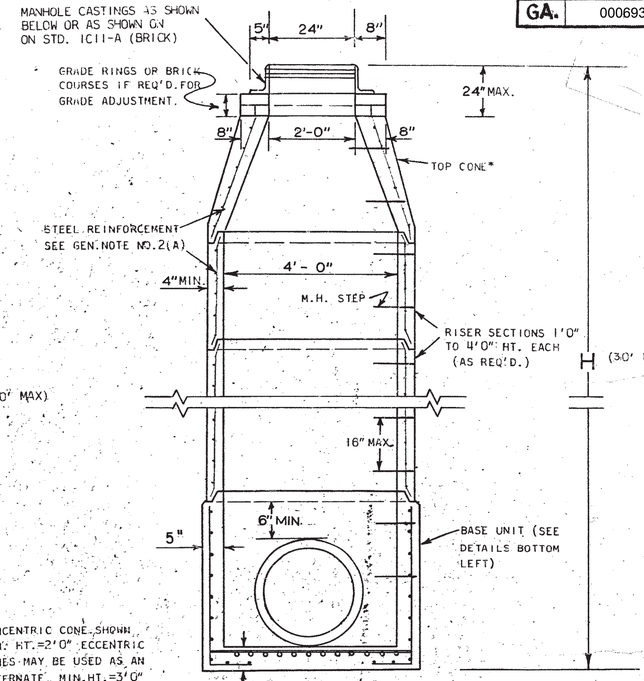
STEPS ARE REQUIRED IN ALL MANHOLES OVER 4 FT. IN HEIGHT.



NOTE:
25 FT. MAXIMUM ALLOWABLE COVER ABOVE REDUCER CONE.

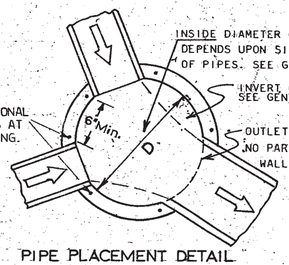
D	X (MIN.)	Z (MIN.)
60"	1'-6"	5"
72"	3'-0"	6"

SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=OVER 48")

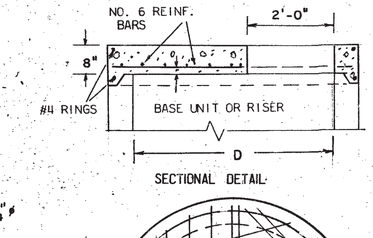


*CONCENTRIC CONE SHOWN, MIN. HT. = 2'0". ECCENTRIC CONES MAY BE USED AS AN ALTERNATE, MIN. HT. = 3'0" DESIGNED ACCORDING TO A.S.T.M. C-478

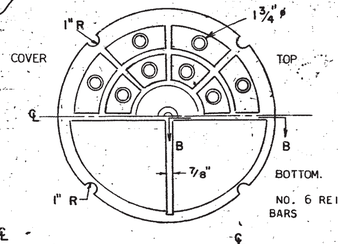
SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=48")

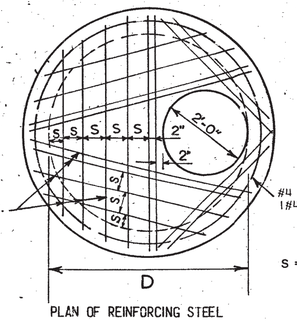


PIPE PLACEMENT DETAIL

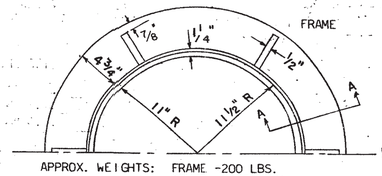


SECTIONAL DETAIL

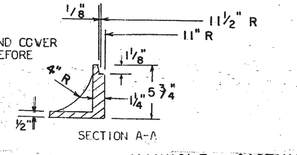




PLAN OF REINFORCING STEEL

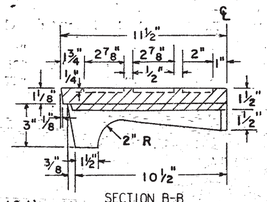


APPROX. WEIGHTS: FRAME -200 LBS.
COVER - 135 LBS.



NOTE: FRAME AND COVER TO BE FITTED BEFORE LEAVING SHOP.

SECTION A-A



SECTION B-B

MANHOLE CASTINGS (C.I.)

FLAT TOP SLAB IS FOR USE IN AREA OF MINIMUM COVER ONLY. MAXIMUM HEIGHT OF MANHOLE WITH FLAT TOP SLAB SHALL BE 4 FT. ABOVE TOP OF HIGHEST ENTERING PIPE.

FLAT TOP SLAB

GENERAL NOTES:

1. MATERIALS: ALL CONCRETE, STEEL BARS AND STEEL WIRE REINFORCEMENT SHALL COMPLY WITH SECTION 866.02 OF GEORGIA STANDARD SPECIFICATIONS AND SPECIAL PROVISION WHICH MODIFY SECTION 866.02.
2. REINFORCEMENT:
   (A) PLACEMENT AND DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C-478 UNLESS OTHERWISE NOTED.
   (B) BASE UNITS, REDUCER SLABS AND FLAT TOP SLABS SHALL HAVE STEEL REINFORCEMENT AS SHOWN IN DETAILS AT LEFT.
3. OPENINGS FOR PIPES LARGER THAN 6 INCHES IN DIAMETER ARE TO BE PRECAST. A MINIMUM OF 6" ALONG THE INTERCIRCUMFERENCE IS TO REMAIN BETWEEN THE EXTREMITIES OF HOLE FOR ADJACENT PIPE IN ANY SINGLE UNIT. A MINIMUM OF TWO REINF. BARS SHALL REMAIN IN WALL BETWEEN ANY TWO OPENINGS.
4. THE CONTRACTOR WILL FURNISH THE FABRICATOR WITH THE ANGLE OF ALINEMENT AND SIZE OF ALL PIPES TO ENTER MANHOLE AND THE HEIGHT OF STRUCTURE.
5. BASE UNITS SHALL HAVE SUFFICIENT HEIGHT TO ALLOW FOR MINIMUM OF 6" OF WALL BETWEEN TOP OF HIGHEST OPENING FOR PIPES AND BOTTOM OF JOINT.
6. INVERT CHANNELS:
   (A) FOR SANITARY SEWER MANHOLES SEE GEORGIA STANDARD SPECIFICATIONS FOR CHANNEL REQUIREMENTS.
   (B) FOR STORM SEWER MANHOLES, CHANNELS BUILT TO SUIT PIPE SIZES AND LOCATION. HEIGHT OF CHANNEL EQUAL TO 1/2 DIAMETER OF OUTLET PIPE. CHANNEL BUILT FROM GROUT OR CLASS "A" CONCRETE.
7. PIPES ARE TO BE EXTENDED INTO STRUCTURE WALL A MINIMUM OF 4" BUT SHOULD NOT EXTEND BEYOND INTERIOR WALL OF STRUCTURE.
8. ALL JOINTS, EXCEPT FOR GRADE RINGS AND TOP OF TOP CONE, SHALL HAVE TONGUE AND GROOVE SECTION.

BY	REVISIONS & CASTINGS & BASE U.	DATE
R M U		6-1-75

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST REINFORCED CONCRETE MANHOLE

NO SCALE — AUGUST, 1973

DESIGNED: GCL — RMU
DRAWN: RMJ
CHECKED: JEC

SUBMITTED: J. L. Kratzer
STATE ROAD DESIGN ENGINEER

APPROVED:
STATE HIGHWAY ENGINEER

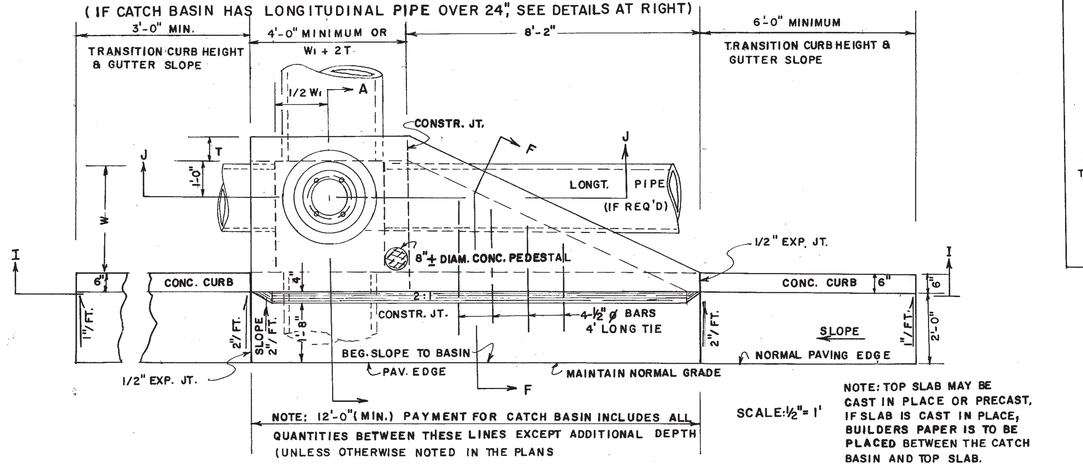
NUMBER 1011-A PRECAST

AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

CATCH BASIN

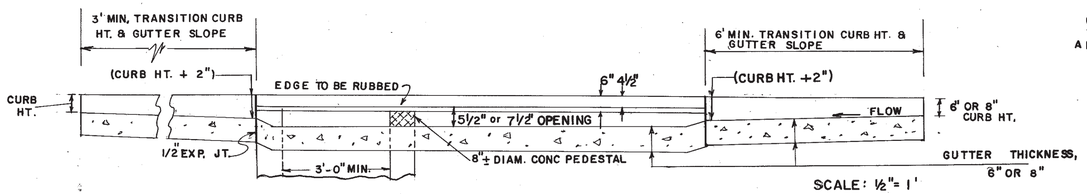
(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)



SCALE: 1/2" = 1'

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST, IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

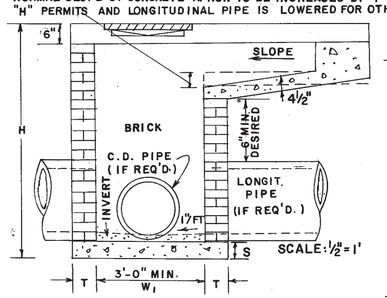
PLAN



SCALE: 1/2" = 1'

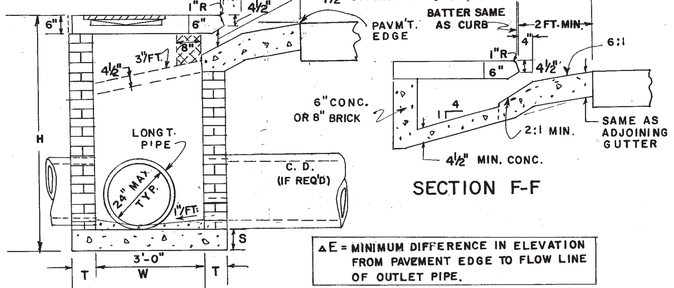
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SCALE: 1/2" = 1'

SECTION J-J

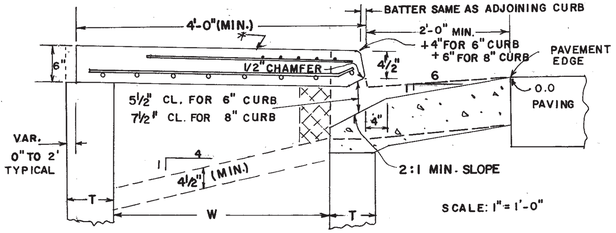


SECTION A-A

SECTION F-F

ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

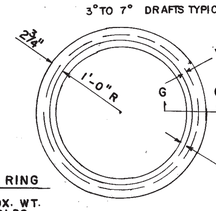


SCALE: 1" = 1'-0"

* SLOPE TOP TO MATCH ADJACENT SURFACES

CASTING DETAILS

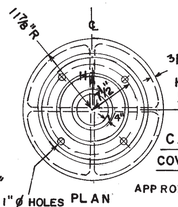
3° TO 7° DRAFTS TYPICAL



C.I. RING
APPROX. WT. = 78 LBS.

PLAN

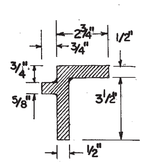
ELEVATION
SCALE: 1" = 1'



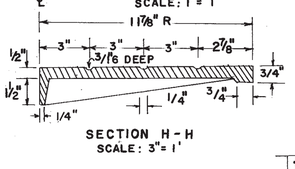
C.I. COVER
APPROX. WT. = 63 LBS.

PLAN

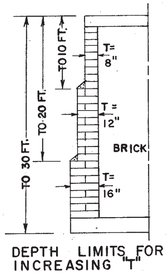
ELEVATION
SCALE: 1" = 1'



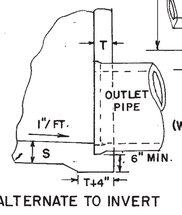
SECTION G-G
SCALE: 3" = 1'



SECTION H-H
SCALE: 3" = 1'

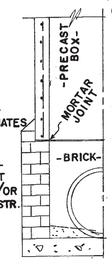


DEPTH LIMITS FOR INCREASING T



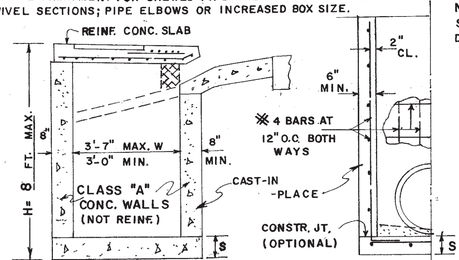
ALTERNATE TO INVERT

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.



PRECAST BOX ON BRICK
(HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.



NON-REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONCRETE (HALF-SECTION)

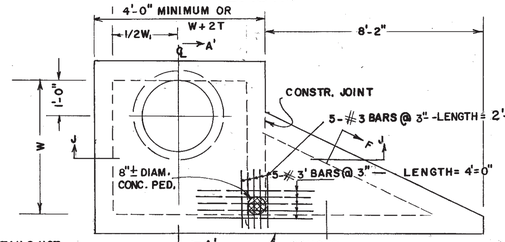
CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

CATCH BASIN - (WITH PROTRUDED BACK)

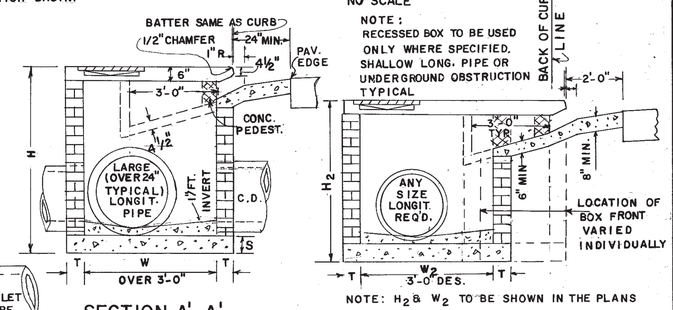


NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

PART PLAN

NO SCALE

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL

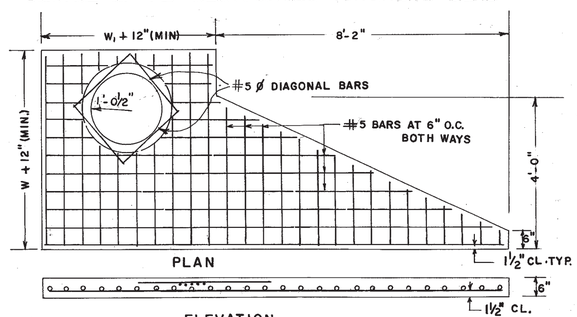


SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

SECTION A'-A' (WITH RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB

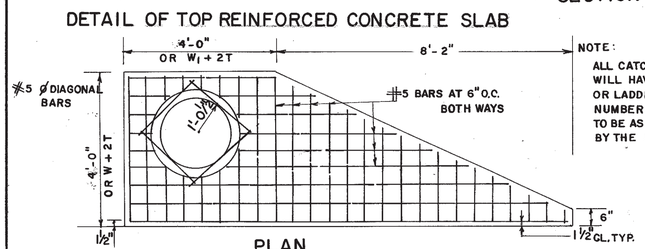


PLAN

ELEVATION

NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE, SEE PLANS FOR SPECIFICS, INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

DETAIL OF TOP REINFORCED CONCRETE SLAB

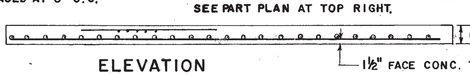


PLAN

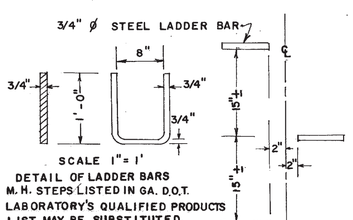
NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.



ELEVATION



SCALE 1" = 1'

DETAIL OF LADDER BARS

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ARRANGEMENT OF LADDER BARS

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 * 4 BARS 12" O.C. BOTH WAYS 2" CL FROM SLAB TOP	8"

PIPE DIA.	H (MIN.)	W or W1	ΔE (MIN.)
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

TYPICAL MIN. DIMENSIONS

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W. & W. DIMENSIONS DO NOT HAVE TO BE EQUAL.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CATCH BASINS

FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN — RED. & REDR. AUGUST, 1982

REV. & REDR.	R.M.U.
TRA.	G.M.E.
CHK.	R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Anderson
STATE HIGHWAY ENGINEER

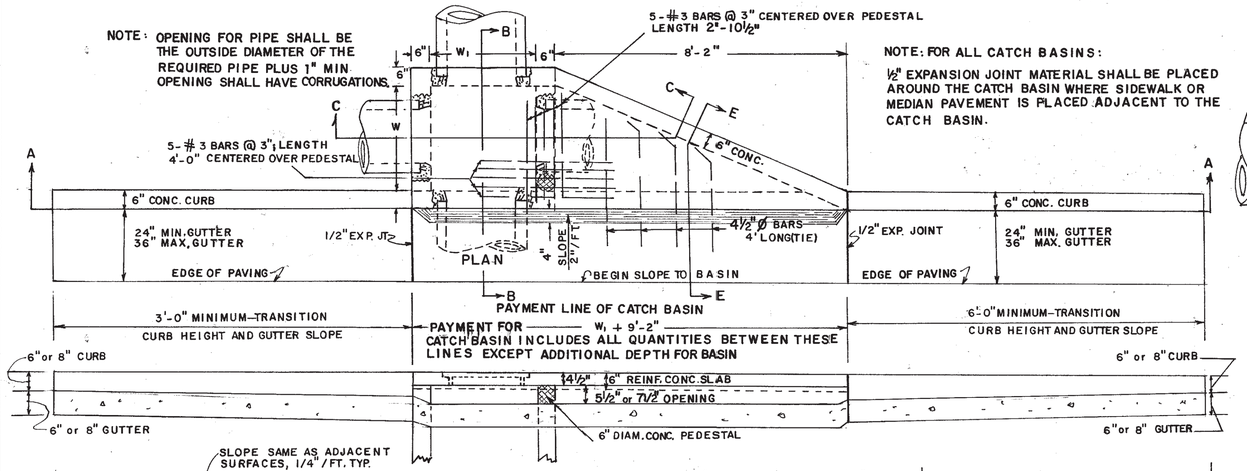
NUMBER 1033D

FORM EF3

AF 21868

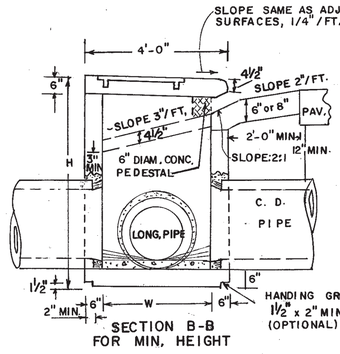
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

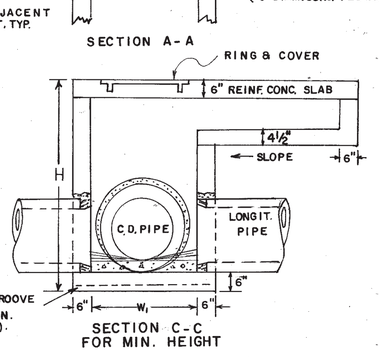
CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT.)

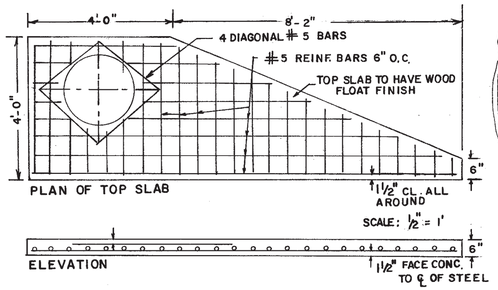


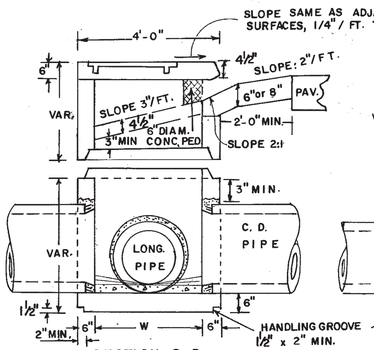
NOTE: FOR ALL CATCH BASINS:

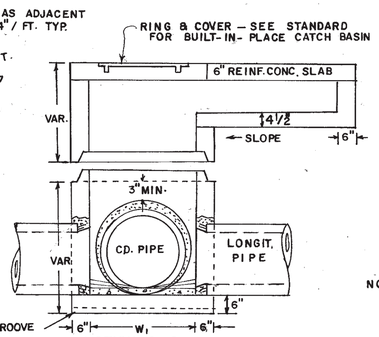
½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

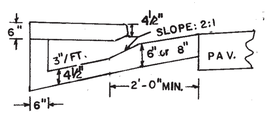


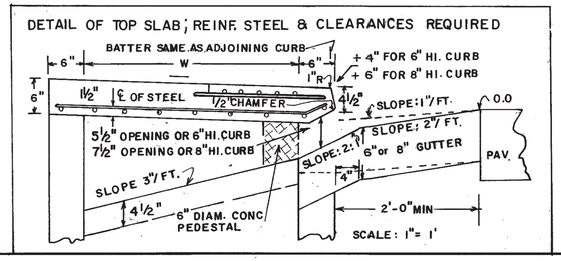




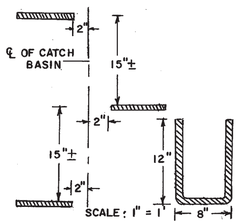








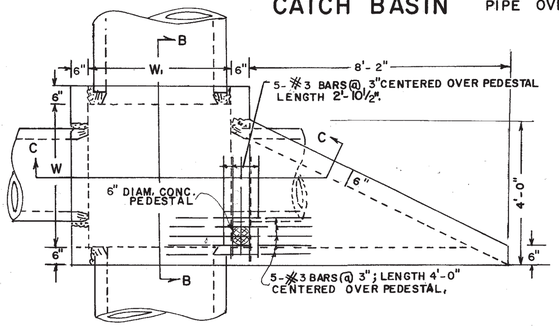
DETAIL AND ARRANGEMENT OF LADDER BARS

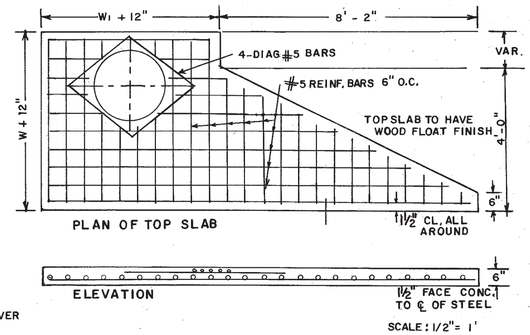


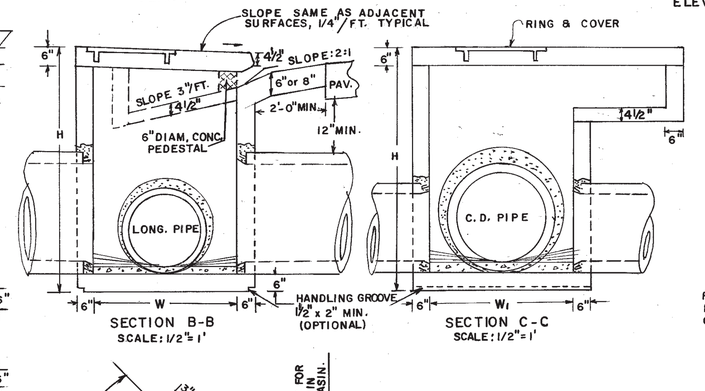
NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

METHOD OF CONNECTING PIPE (WHERE CONCRETE PIPE HAS TO BE CUT)

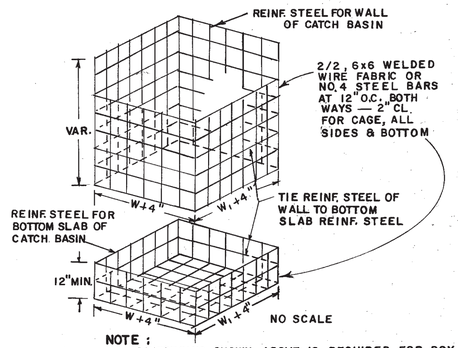
CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24")



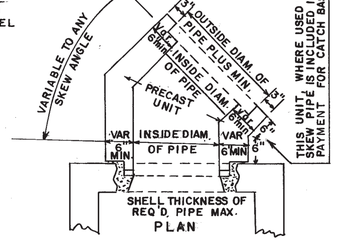




REINFORCING - ISOMETRIC VIEW



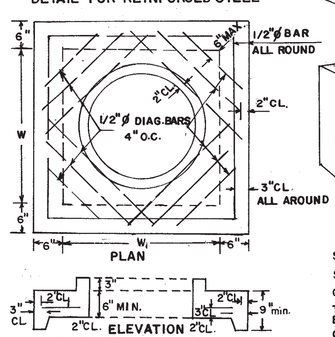
NOTE:
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.



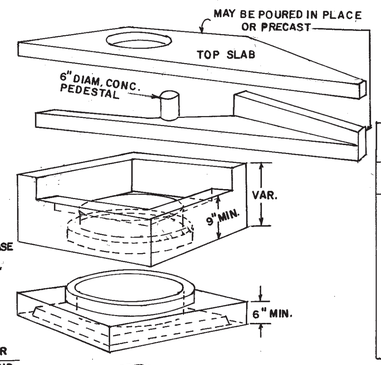
A METHOD OF CONNECTING SKEWED PIPE

IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W₁ DIMENSIONS, INCREASE THE MIN. THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.

DETAIL FOR REINFORCED STEEL



TYPICAL ISOMETRIC VIEW



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.
THE ABOVE VIEW DEPICTS PRECAST BOX. SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED, KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

DIMENSIONS FOR CATCH BASINS		
PIPE SIZE	NORMAL W OR W₁	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W₁ DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033D FOR BUILT-IN-PLACE CATCH BASIN.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER

SCALE AS SHOWN — REV. & REDR., SEPT., 1982

REV. & REDR. RMU	(SUBMITTED) Floyd E. Hurley
TRA GME	STATE ROAD & AIRPORT DESIGN ENGR
CHK RKC	(APPROVED) Thomas D. Moreland
	STATE HIGHWAY ENGINEER

NUMBER 1033D PRECAST

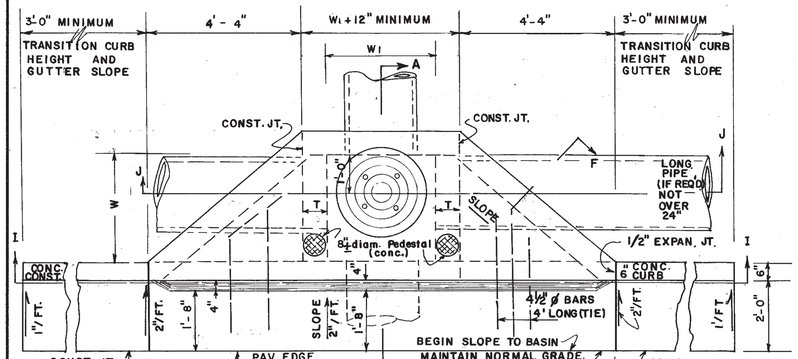
FORM EF3

AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

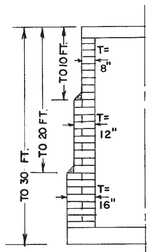
CATCH BASIN

(FOR CATCH BASIN WITH LONGIT. PIPE OVER 24", SEE DETAILS AT RIGHT.)

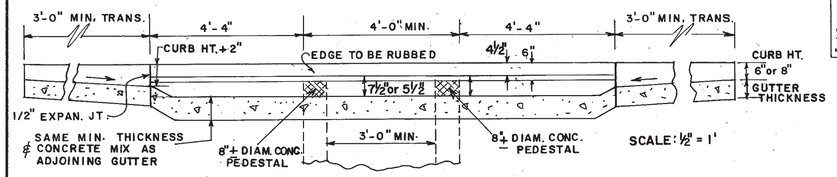


NOTE: 12'-8" (MIN.) - PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH FOR BASIN (UNLESS OTHERWISE NOTED IN THE PLANS)

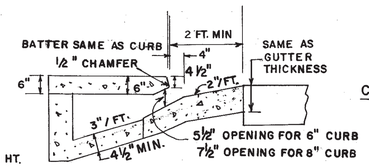
SCALE: 1/2" = 1'



DEPTH LIMITS FOR INCREASING "T"



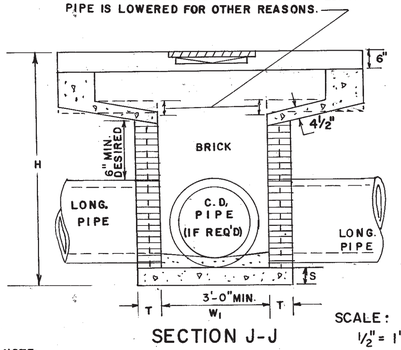
SCALE: 1/2" = 1'



SECTION F-F

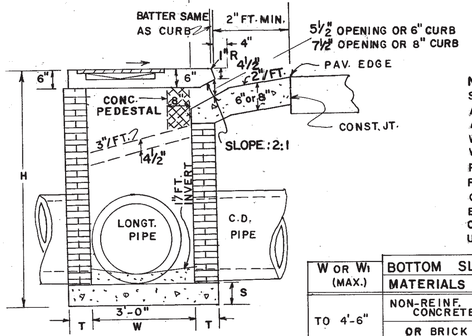
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED UP TO 8" TOTAL WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SECTION J-J

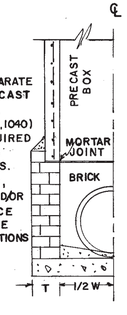
SCALE: 1/2" = 1'



SECTION A-A

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 4 BARS 12" O.C. BOTH WAYS 2" CL FROM SLAB TOP	8"

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES, ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS

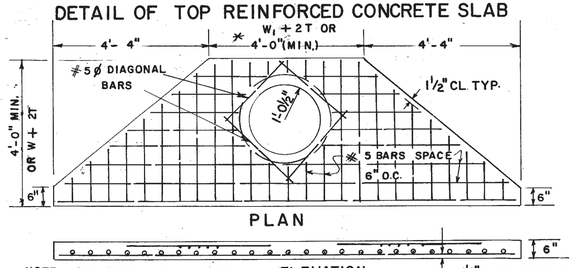


PRECAST BOX ON BRICK (HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

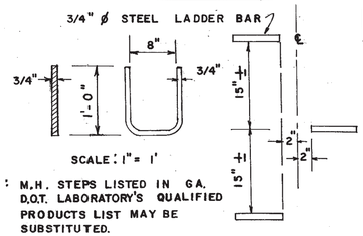
ELEVATION

NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

1½" FACE CONC. TO ℄ REINF.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB SEE PART PLAN AT TOP RIGHT.

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF CAST IN PLACE, BUILDER'S PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.



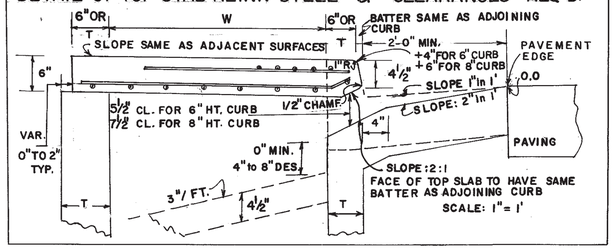
SCALE: 1" = 1'

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS. NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

DETAIL OF LADDER BARS

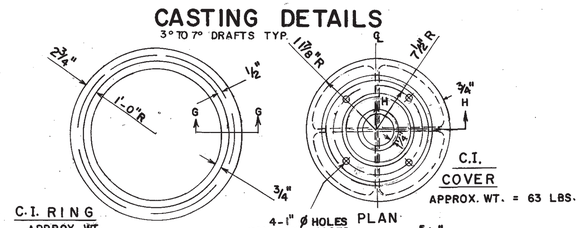
DETAIL OF TOP STAB REINF. STEEL & CLEARANCES REQ'D.

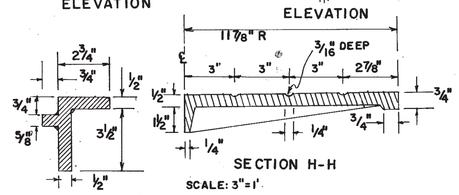


SCALE: 1" = 1'

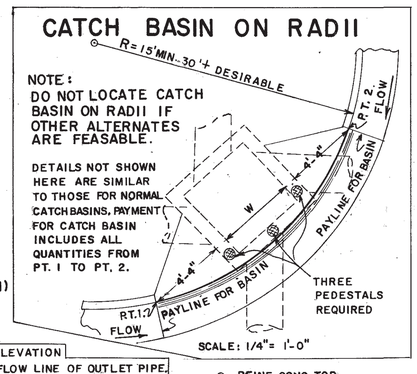
CASTING DETAILS

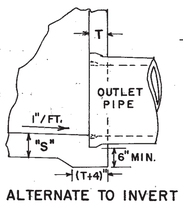
3° TO 7° DRAFTS TYP.





CATCH BASIN ON RADII



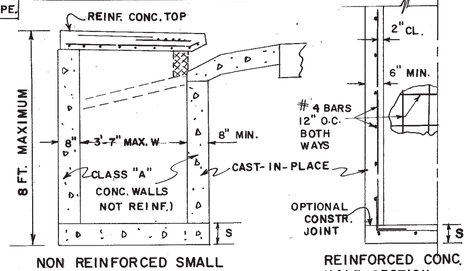


ALTERNATE TO INVERT

PIPE DIA.	H (MIN.)	W or W1	MIN. ΔE
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.



NON REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

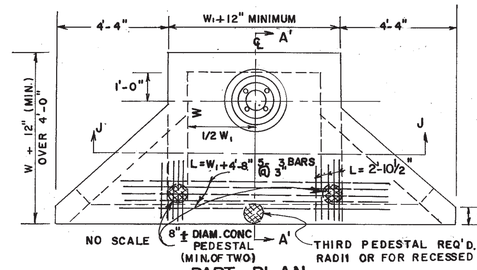
REINFORCED CONC. HALF-SECTION.

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

CONSTRUCTION ALTERNATES

CATCH BASIN (WITH PROTUDED BACK)

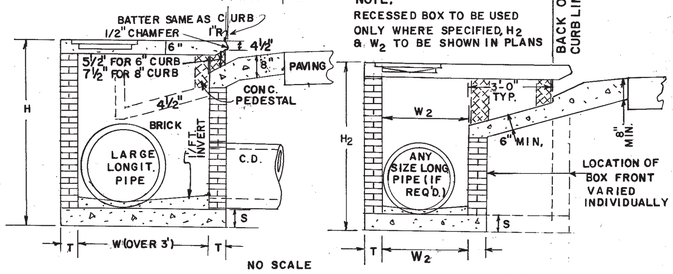
FOR USE WITH LONGITUDINAL PIPE OVER 24" OR FOR USE WITH RECESSED BOX



NOTE:
DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASINS.

PART PLAN

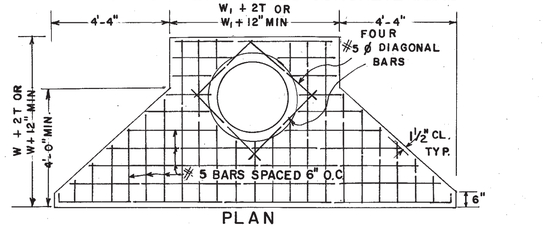
NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, H2 & W2 TO BE SHOWN IN PLANS



SECTION A'-A' (FOR LONGIT. PIPE OVER 24")

SECTION A'-A' (FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

ELEVATION

1½" FACE CONC. TO ℄ REINF.

NOTE:

TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN

REV. AUGUST, 1982

REV. & REDR. R.M.U.
TRA G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moseley
STATE HIGHWAY ENGINEER

NUMBER 1034D

FORM EF3

AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

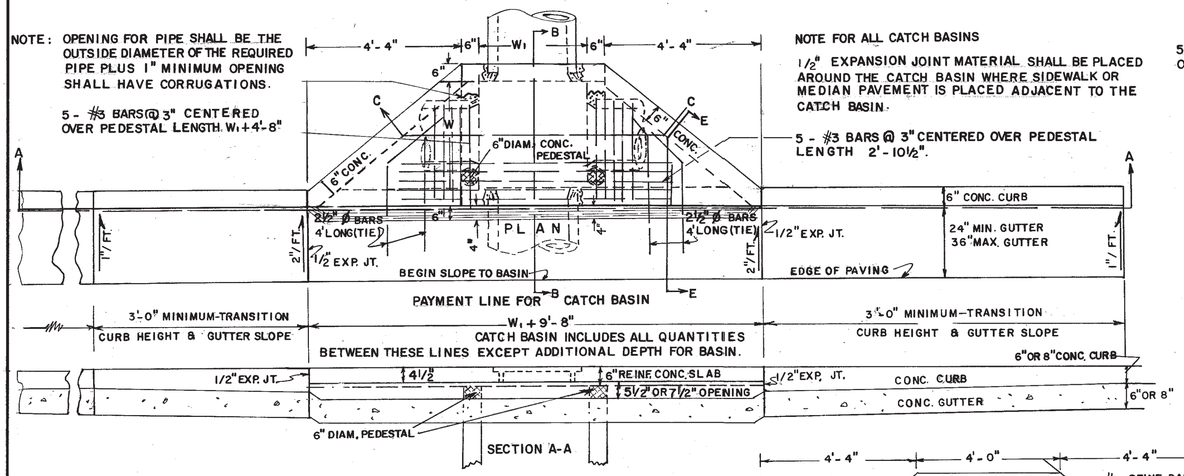
NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQUIRED PIPE PLUS 1" MINIMUM OPENING SHALL HAVE CORRUGATIONS.

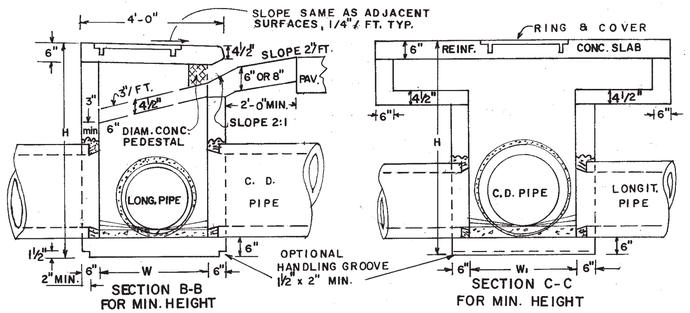
5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH $W_1 + 4'-8"$

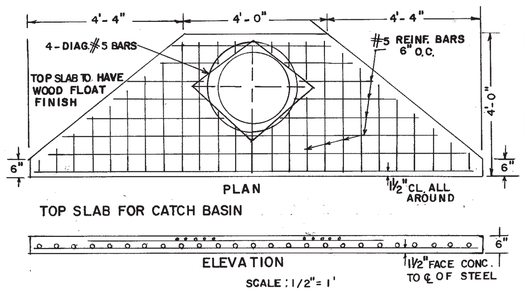
NOTE FOR ALL CATCH BASINS

1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

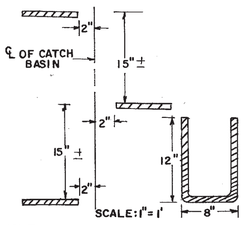
5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH 2'-10 1/2".



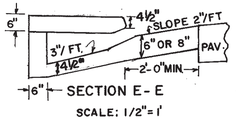




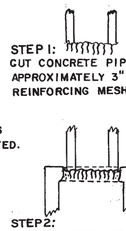
DETAIL AND ARRANGEMENT OF LADDER BARS



NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. DOT. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

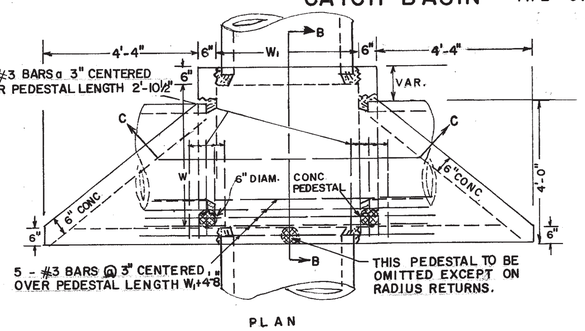


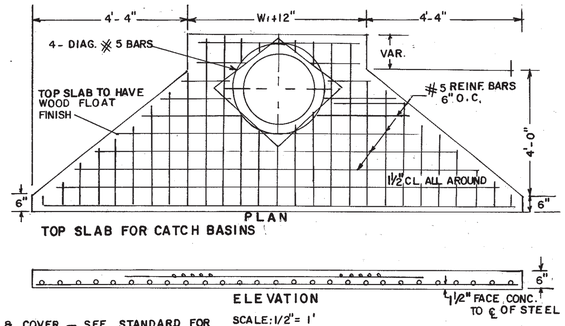
METHOD OF CONNECTING PIPE (WHERE CONC. PIPE HAS TO BE CUT)

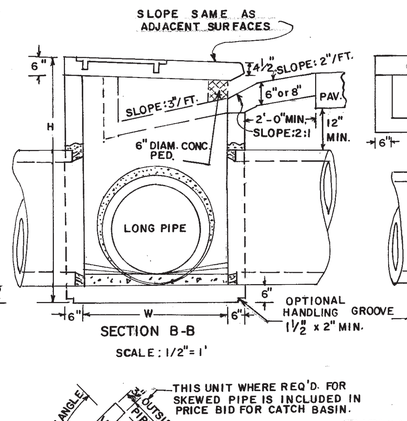


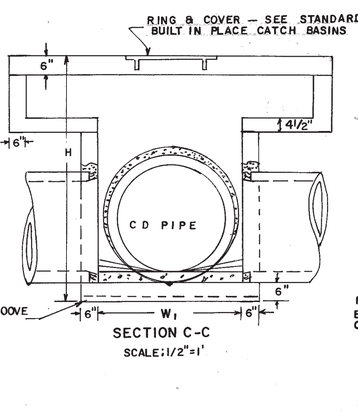
NO SCALE

CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24".)

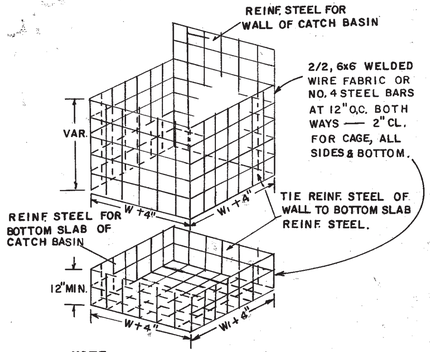








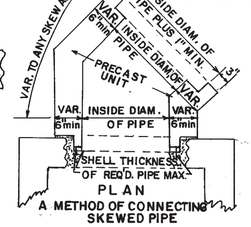
REINFORCING - ISOMETRIC VIEW

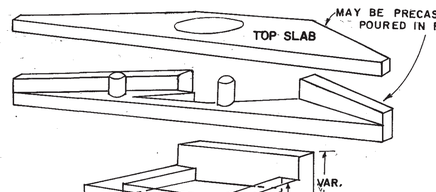


NOTE:
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

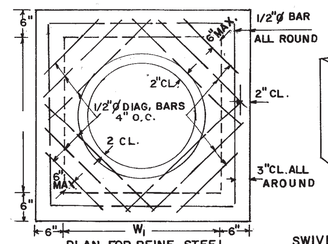
THIS UNIT WHERE REQ'D. FOR SKEWED PIPE IS INCLUDED IN PRICE BID FOR CATCH BASIN.

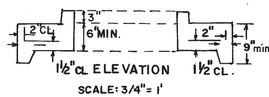
TYPICAL ISOMETRIC VIEW





IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W_1 DIMENSIONS, INCREASE THE MINIMUM THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.





SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.

NO SCALE

NOTE:
THE ABOVE VIEW DEPICTS PRECAST BOX SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED. KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

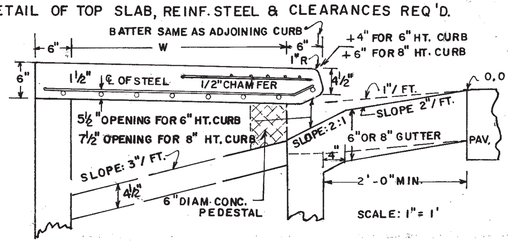
DIMENSIONS FOR CATCH BASINS		
PIPE SIZE	NORMAL W or W_1	MIN. H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

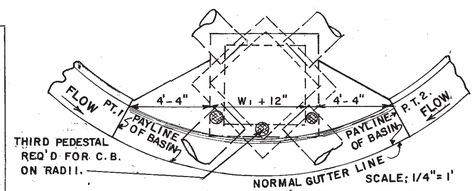
NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W_1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1034 D FOR BUILT-IN-PLACE CATCH BASIN.

DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.





SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.
ALL DIMENSIONS ARE THE SAME AS SHOWN ON DETAILS FOR CATCH BASIN, DIMENSIONS FROM PT. 1 TO PT. 2 ARE MEASURED ALONG THE CHORD, UNIT PRICE BID FOR CATCH BASIN INCLUDES ALL CURB AND GUTTER FROM PT. 1 TO PT. 2.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN

REV. & REDR., SEPT. 1982

REV. & REDR. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moreland
STATE HIGHWAY ENGINEER

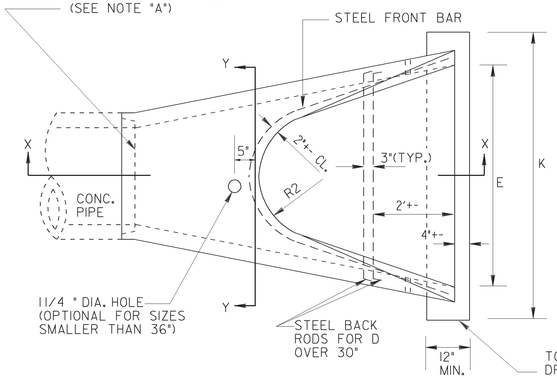
NUMBER 1034D PRECAST

FORM EF3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

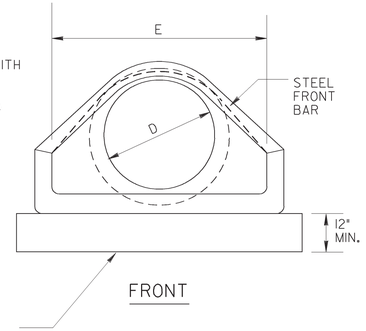
CONCRETE FLARED END SECTION

END SECTION TO PIPE JOINT SHOWN AS TYPICAL:
HUB END ON OUTLET END SECTIONS;
SOCKET END ON INLET END SECTIONS
(SEE NOTE "A")



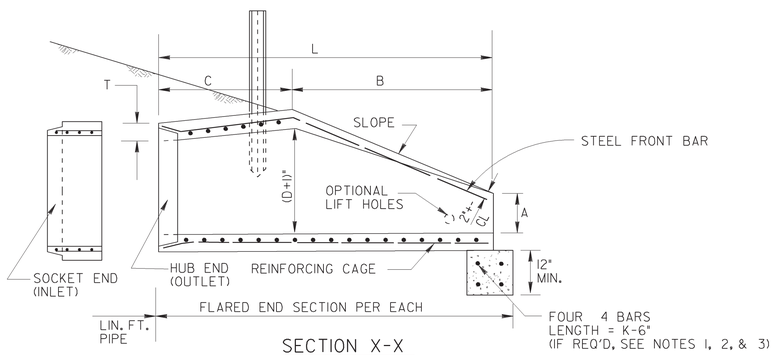
PLAN

INSTALLATION: (D OVER 30") CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 1 1/4 " HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR A LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 LIFT POINTS, HOOKS CONNECTED DIRECTLY TO CONCRETE IS NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.

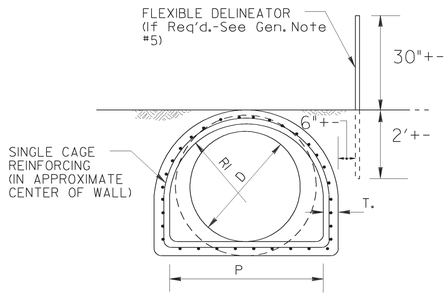


FRONT

NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



SECTION X-X



SECTION Y-Y

REINFORCING CAGE:

(1.) WIRE FABRIC HAVING EQUAL STEEL AREA AS INNER CAGE FOR CLASS II PIPE, AASHTO M-170.
(2.) ALTERNATE: # 3 BARS SPACED 12"+- LONGITUDINALLY WITH # 2 BARS TRANVERSELY AT 6' O.C. MAX. SPACING, SPOT WELDED OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED.)

NOTE "A":

CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.

FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN.

T = PIPE WALL THICKNESS (0.0833D + 1"+- TYPICAL)

DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+- 1" TOLERANCE)

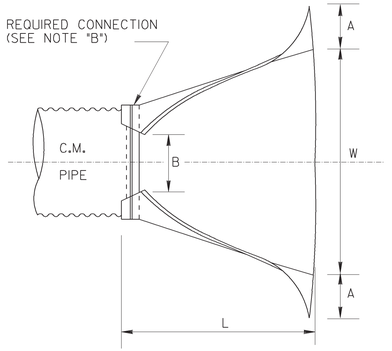
PIPE DIA	FRONT BAR	BACK RODS	SLOPE +-	A	B	C *	L *	E	P	RI	R2	OUTLET TOEWALL (IF REQ'D) K= E + 2'	CU.YDS. CONC.
12"	1-#3 x 5' 4"	NOT REQ'D.	2.2:1	4"	2'0"	4' 1"	6'1"	2'0"	1'8"	10"	9"	4'-0"	.148
15"	1-#3 x 6' 0"	NOT REQ'D.	2.2:1	6"	2'3"	3'10"	6'1"	2'6"	2'0"	1'0"	11"	4'-6"	.167
18"	1-#3 x 7' 2"	NOT REQ'D.	2.2:1	9"	2'3"	3'10"	6'1"	3'0"	2'5"	1'4"	1'0"	5'-0"	.185
24"	1-#3 x 9' 10"	NOT REQ'D.	2.4:1	10"	3'8"	2' 6"	6'2"	4'0"	2'9"	1'5"	1'2"	6'-0"	.222
30"	1-#4 x 11' 8"	NOT REQ'D.	2.4:1	12"	4'6"	1' 8"	6'2"	5'0"	3'1"	1'6"	1'3"	7'-0"	.259
36"	1-#4 x 13' 10"	2-#4 x 6'3"	2.4:1	15"	5'3"	2'11"	8'2"	6'0"	4'0"	2'0"	1'8"	8'-0"	.296
42"	1-#4 x 13' 10"	2-#4 x 7'4"	2.4:1	21"	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	1'10"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

* NOTE: "C" AND "L" DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.

METAL FLARED END SECTION

(USE ONLY WITH COR. METAL PIPE)



PLAN

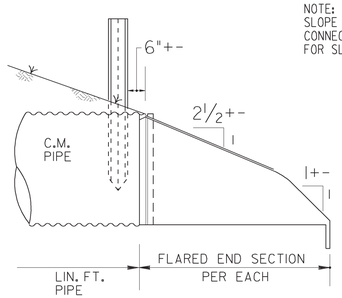
NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

FLARED END SECTION DIMENSIONS

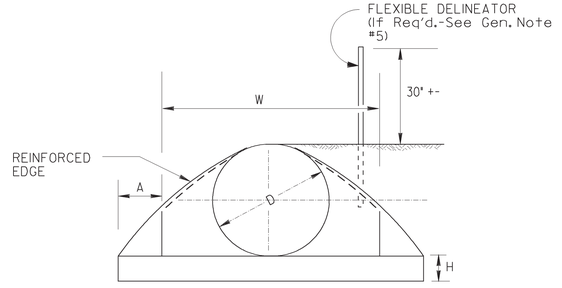
PIPE SIZE "D"	THICKNESS GALV. STEEL	THICKNESS ALUM.	A A= 0.4D +- 1"	B B=0.5 D +- 1"	H H=0.25D +- 1" (MIN.6")	L L=1.67D +- 1 1/2"	W W=2.0D +- 2"
12"	.064"	.060"	5"	6"	6"	1'8"	2'0"
15"	.064"	.060"	6"	7"	6"	2'3"	2'6"
18"	.064"	.060"	7"	9"	6"	2'6"	3'0"
24"	.064"	.060"	9"	1'0"	6"	3'4"	4'0"
30"	.079"	.105"	1'0"	1'3"	7"	4'2"	5'0"
36"	.079"	.105"	1'2"	1'6"	9"	5'0"	6'0"
42"	.109"	.164"	1'5"	1'9"	10"	5'10"	7'0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL). TO PREVENT OVER-LAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.

NOTE:
SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



SIDE



FRONT

NOTE "B":

THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

(a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE)

(b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.

(c) A STUB PIPE WILL BE RIVITED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO THE STUB WITH A NORMAL CONNECTING BAND.

(d) OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE D.O.T.

SPECIAL NOTE:

FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

GENERAL NOTES :

1. TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.

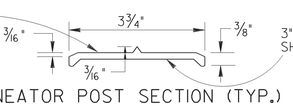
2. TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS "A" OR "B" CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.

3. PRECAST TOEWALLS SHALL BE CL. "A" CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL "A" OR "B" CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.

4. CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE, IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.

5. FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAY-MENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.

1" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX, ON EACH SIDE OF RIDGE.



3" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX.

DELINEATOR POST SECTION (TYP.)

NOTE:
DELINEATOR POST SHALL CONFORM TO SEC. 911 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

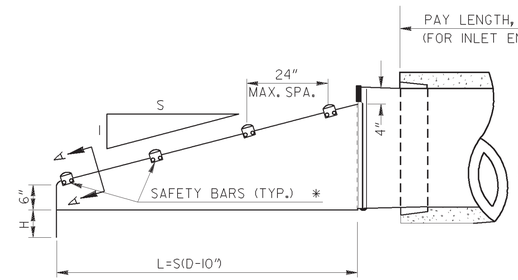
SPECIAL NOTE :

PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. "D" DIMENSION FOR FLARED END SECTION SHALL EQUAL THE "D" DIMENSION FOR CONNECTING PIPE CULVERT.

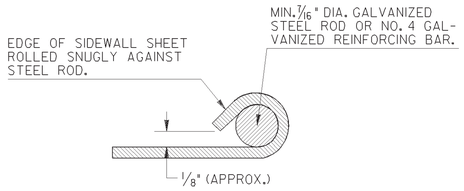
	6-9-06	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
	REV. REFLECTIVE SHEETING	REVISION	STANDARD FLARED END SECTIONS FOR PIPES
			NO SCALE — REV. & REDR. SEPT., 1999
GLO	BY	DES. ____ REV. ____ RETR. ____ CHK. ____	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER — NUMBER 1120

ALTERNATE I

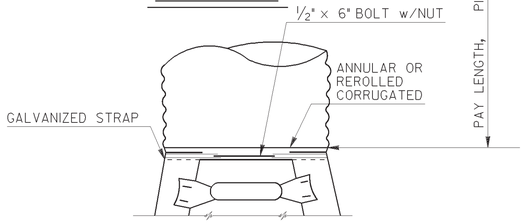
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

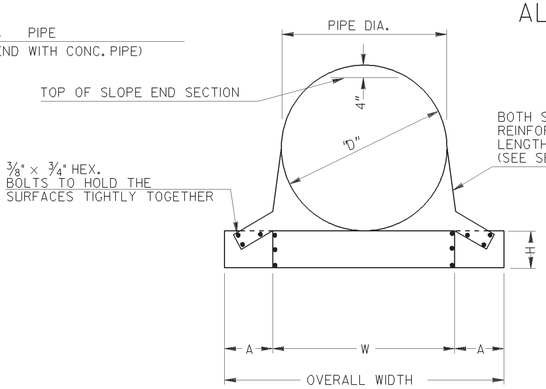


SIDE ELEVATION

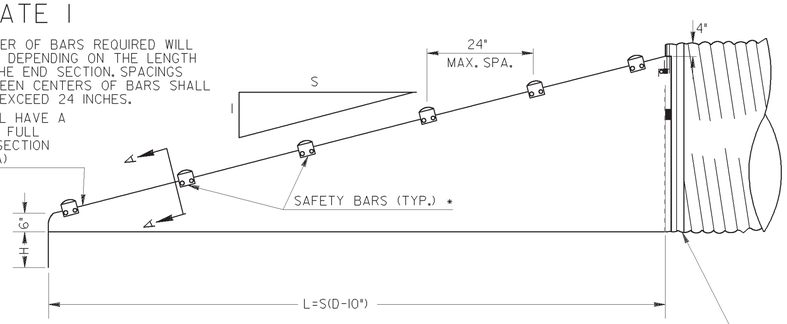


SECTION A-A





* NUMBER OF BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION. SPACINGS BETWEEN CENTERS OF BARS SHALL NOT EXCEED 24 INCHES.



GENERAL NOTES
ALTERNATE I

GALVANIZED STEEL SHEET

USE GALVANIZED STEEL SHEET CONFORMING TO AASHTO M 218.

CONNECTORS

PAYMENT FOR END SECTION SHALL INCLUDE CONNECTION OF THE TYPE REQUIRED FOR THE SIDE DRAIN USED.

SAFETY BARS

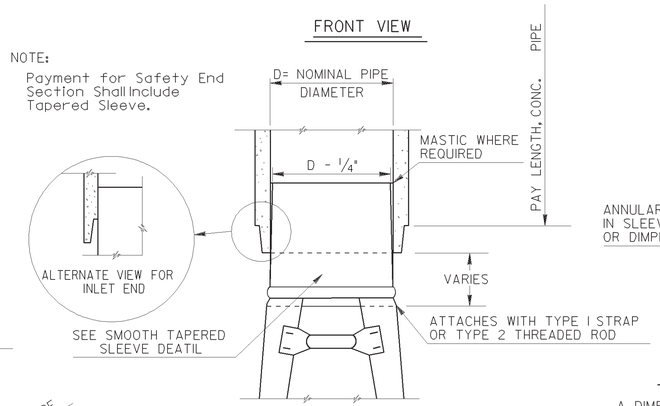
SHALL BE 3" SCHEDULE 40 GALVANIZED STEEL PIPE. PIPE TO BE GALVANIZED AFTER FORMING. SAFETY BAR(S) SHALL BE REQUIRED FOR ALL SAFETY END SECTIONS.

MISCELLANEOUS DETAILS

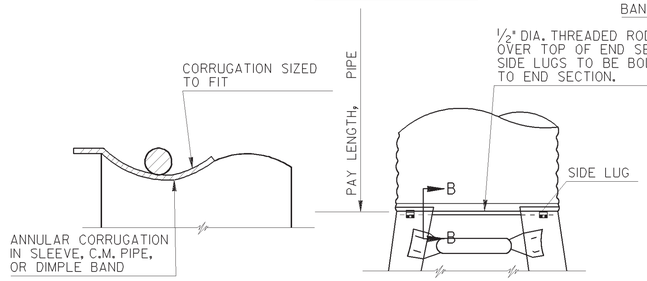
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS, SUBJECT TO APPROVAL BY THE D.O.T.'S LABORATORY. A SAMPLE MUST BE SUBMITTED TO PRE-QUALIFY THE PRODUCT.

FRONT VIEW

NOTE:
Payment for Safety End Section Shall Include Tapered Sleeve.



SIDE ELEVATION



SECTION B-B

TYPE #2 CONNECTOR DETAILS

FOR 30" AND LARGER

TYPE 3 ALTERNATE CONNECTOR (NOT SHOWN)
A DIMPLE BAND COLLAR MAY BE SHOP BOLTED TO THE END SECTION

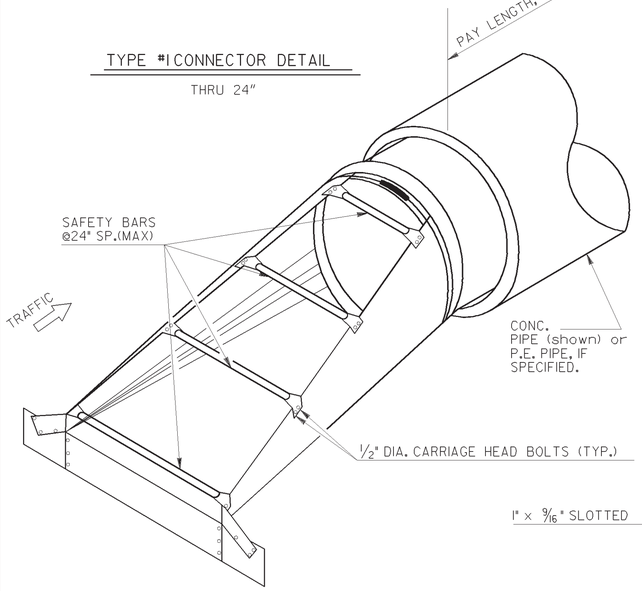
SIZES, DIMENSIONS, AND THICKNESSES

PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (INCHES)				✳ L DIMENSION			
	IN.	GAGE	A	H	W (D+6")	OVERALL WIDTH	SLOPE (S:1)	LENGTH (IN.)	SLOPE (S:1)	LENGTH (IN.)
15	.064	16	8	6	21	37	4:1	20	6:1	30
18	.064	16	8	6	24	40	4:1	32	6:1	48
24	.064	16	8	6	30	43	4:1	56	6:1	84
30	.109	12	12	9	36	60	4:1	80	6:1	120
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228

*SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

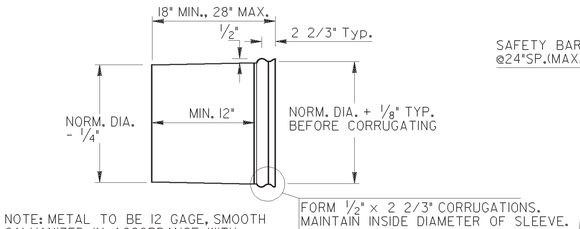
TYPE #I CONNECTOR DETAIL

THRU 24"



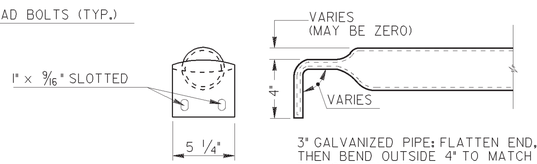
TYPICAL PICTORAL VIEW
(WITH CONCRETE PIPE)

TAPERED SLEEVE FOR ATTACHING STEEL END SECTIONS TO SMOOTH PIPE



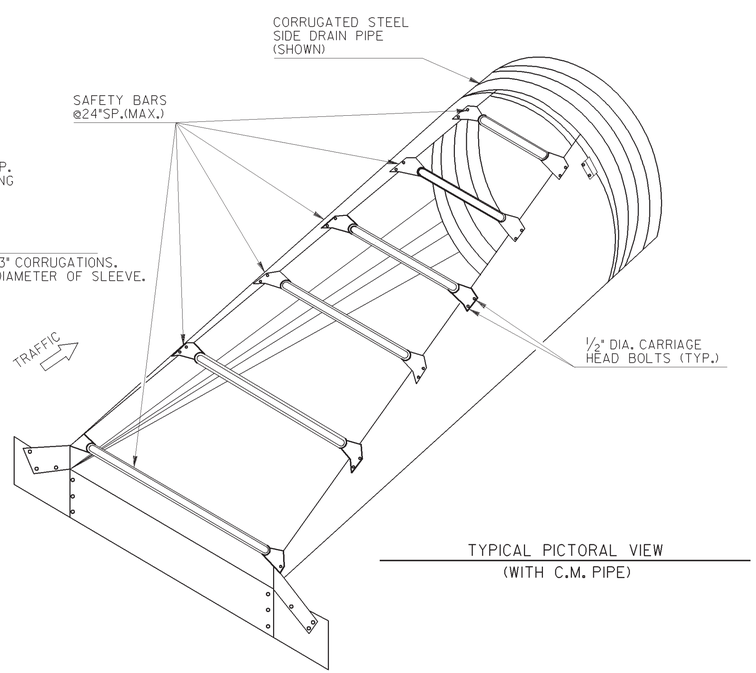
NOTE: METAL TO BE 12 GAGE, SMOOTH GALVANIZED IN ACCORDANCE WITH AASHTO M218-AND COATED AS REQUIRED FOR END SECTION.

TYPE 4 CONNECTOR
SMOOTH TAPERED SLEEVE DETAIL



3" GALVANIZED PIPE: FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

TYPICAL DETAIL OF SAFETY BARS



TYPICAL PICTORAL VIEW
(WITH C.M. PIPE)

SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF END SECTIONS ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.

BY	DATE	REVISION
G.L.O.	1-28-05	REVISED GENERAL NOTES
R.M.U.	12-14-94	CONVERTED TO STANDARD
R.M.U.	11-18-94	PAY ITEMREVISION
R.M.U.	12-20-93	GEN. REVISION
		REFER TO STD. 903I-T

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD SAFETY END SECTION (METAL)

(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)

ALTERNATE I

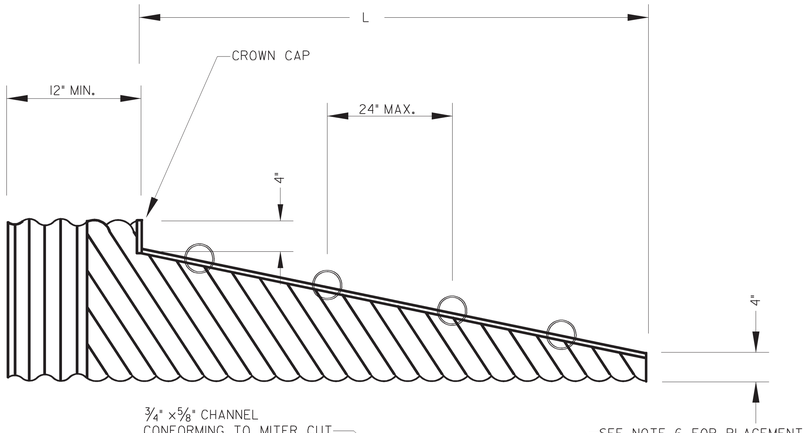
NO SCALE — SEPT., 1993

NUMBER 1122

SHEET 1 OF 3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	0006932		

ALTERNATE 2



END TREATMENT DIMENSIONS FOR ARCHED METAL PIPE				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
17"x13"	16	.064"	1'-8"	2'-6"
21"x15"	16	.064"	2'-4"	3'-6"
24"x18"	16	.064"	3'-4"	5'-0"
28"x20"	16	.064"	4'-0"	6'-0"
35"x24"	14	.079"	5'-4"	8'-0"
42"x29"	14	.079"	7'-0"	10'-6"
49"x33"	14	.079"	8'-4"	12'-6"
57"x38"	12	.109"	10'-0"	15'-0"
64"x43"	12	.109"	11'-8"	17'-6"
71"x47"	10	.138"	13'-0"	19'-6"

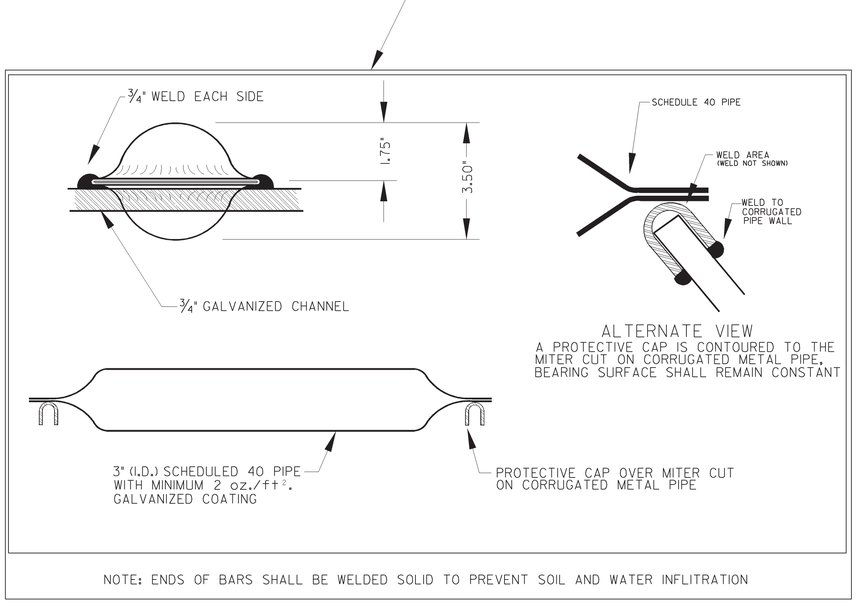
* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

END TREATMENT DIMENSIONS FOR CIRCULAR METAL AND CIRCULAR CONCRETE PIPES				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
15"	16	.064"	2'-4"	3'-6"
18"	16	.064"	3'-4"	5'-0"
21"	16	.064"	4'-4"	6'-6"
24"	16	.064"	5'-4"	8'-0"
30"	16	.064"	7'-4"	11-0"
36"	16	.064"	9'-4"	14'-0"
42"	14	.079"	11'-4"	17'-0"
48"	14	.079"	13'-4"	20'-0"
54"	14	.079"	15'-4"	23'-0"
60"	12	.109"	17'-4"	26'-0"

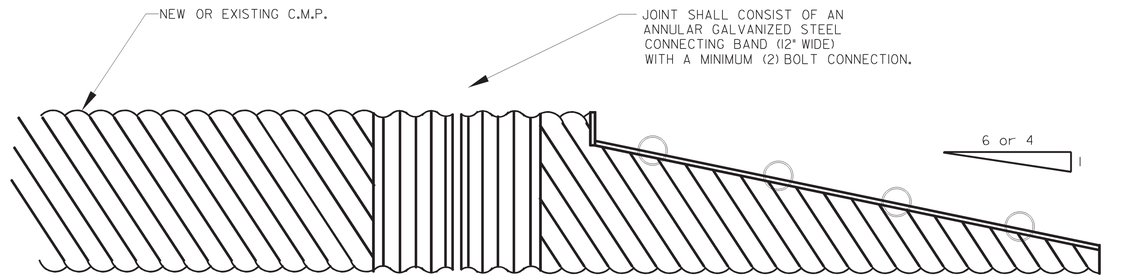
* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

GENERAL NOTE ALTERNATE 2:

1. THE MATERIAL USED IN FABRICATION OF SLOPED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 218 (GALVANIZED STEEL)
2. SLOPED END SECTIONS SHALL BE FORMED FROM FULL CIRCLE PIPE, MAY BE FORMED INTO PIPE ARCHES, WHERE SPECIFIED, AND SHALL MEET ALL REQUIREMENTS FOR CORRUGATION, GAGE, AND OTHER FABRICATION REQUIREMENTS.
3. THE EXPOSED EDGE CUT ON THE TOP SHALL BE COVERED WITH A PROTECTIVE CAP OVERLAPPING THE TOP OF THE ARCH BY NOT LESS THAN 5/8INCH. THE 4 TO 1OR 6 TO 1 BEVEL SHALL BE ENCASED WITH A PROTECTIVE CAP OVERLAPPING EACH SIDE OF THE CUT BY NOT LESS THAN 5/8INCH. THE PROTECTIVE CAP IS TO BE THE SAME MATERIAL AS THE PIPE AND MINIMUM 14 GAGE (.079"). PROTECTIVE CAPS SHALL BE WELDED WITH 1/2INCH WELDS ALTERNATING FROM SIDE TO SIDE OFTHE CAP AT 12 INCH INTERVALS. WELDS SHALL BE AT THE ENDS OF ALL CAPS, REGARDLESS OF SPACING. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS SECTION 645.
4. CONNECTIONS OF GALVANIZED STEEL END TREATMENTS TO CORRUGATED ALUMINUM OR ALUMINIZED STEEL PIPE MUST UTILIZED A POLYMER COATED GALVANIZED STEEL BAND MEETING THE REQUIREMENTS OF AASHTO M 256 84.
5. ADAPTER SLEEVE IS TO BE CONSTRUCTED OF GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M 218, MINIMUM 12 GAGE (.109") MATERIAL.
6. BOTTOM SAFETY BAR SHALL HAVE A MAXIMUM CLEARANCE OF 5" WHEN MEASURED FROM THE BOTTOM OF THE INSTALLED BAR TO INSIDE CREST OF PIPE CORRUGATION.

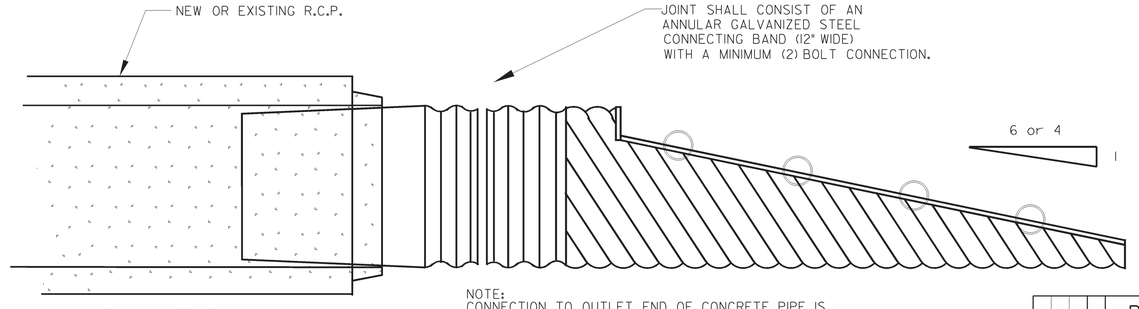


NOTE: ENDS OF BARS SHALL BE WELDED SOLID TO PREVENT SOIL AND WATER INFLITRATION

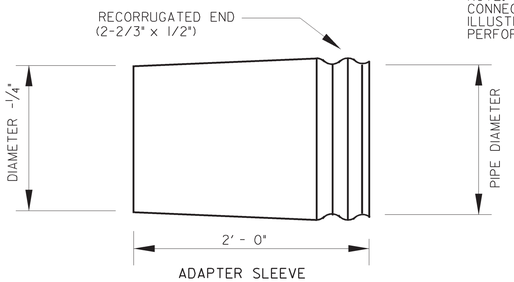


SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF THE END SECTION ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERANTE MAY BE SPECIFIED INSTEAD.



NOTE:
CONNECTION TO OUTLET END OF CONCRETE PIPE IS ILLUSTRATED. CONNECTION TO INLET END WILL BE PERFORMED IN THE SAME MANNER.



ADAPTER SLEEVE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD SAFETY END SECTION (METAL)

(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)

ALTERNATE 2

NO SCALE — JAN. 2005

DATE / REVISION / BY

DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____

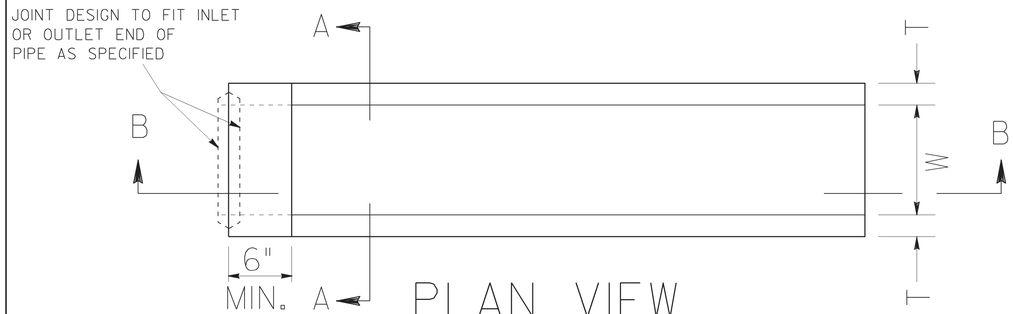
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 1122

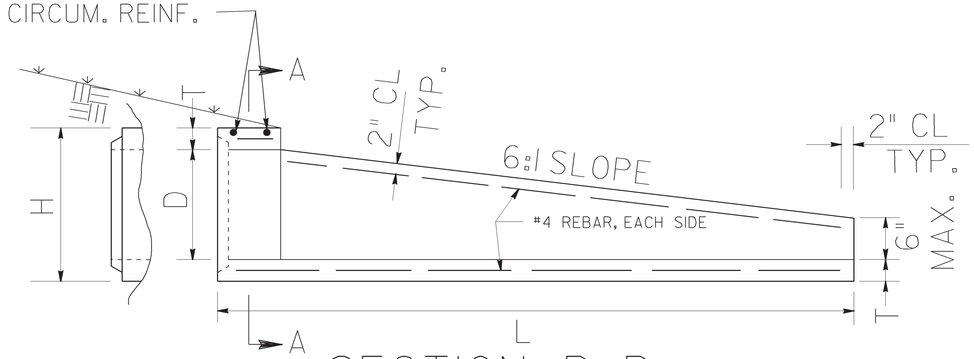
SHEET 2 OF 3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



PLAN VIEW

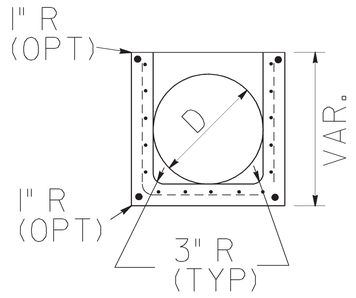
(BAR GRATE NOT SHOWN)



SECTION B-B

ALTERNATE 3

PIPE DIA	T (MIN)	D	H	L
15"	3"	15"	21"	4'-6"
18"	3"	18"	24"	6'-0"
24"	3"	24"	30"	9'-0"
30"	4"	30"	38"	12'-6"
36"	4"	36"	44"	15'-6"
42"	4"	42"	50"	18'-6"
48"	5"	48"	58"	22'-0"



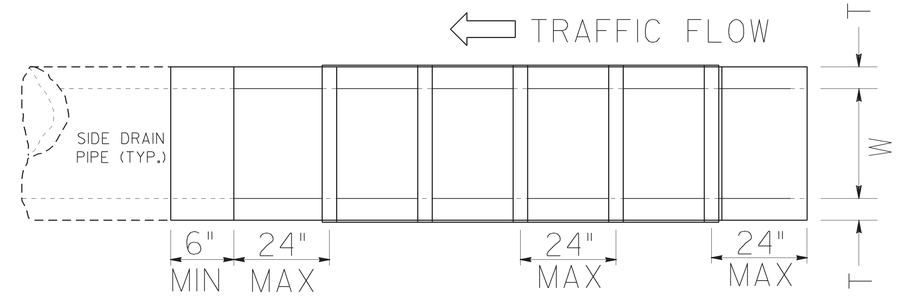
SECTION A-A

GENERAL NOTES:

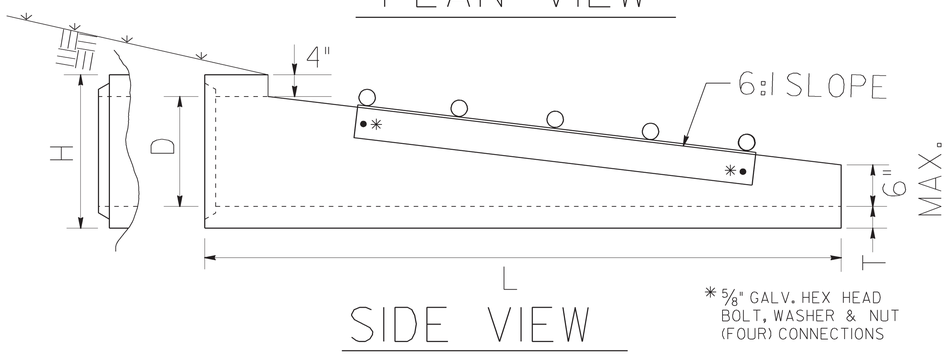
1. CONCRETE STRENGTH SHALL BE 4000 PSI MINIMUM
2. REINFORCING SHALL BE PER AASHTO M170, CLASS II REINFORCED CONCRETE PIPE, PLUS ONE #4 BAR TOP AND BOTTOM, EACH SIDE.
3. WALLS MAY HAVE 1/4" TAPER. WALL THICKNESSES SHOWN ARE THE MINIMUM.
4. LIFT HOLES MAY BE PROVIDED IN THE SIDE WALLS FOR HANDLING.
5. END SECTION JOINT WILL BE A MATCHED FIT TO THE ADJOINING PIPE JOINT AT ALL INLET AND OUTLET ENDS. NON-FITTING JOINTS WILL REQUIRE A BUILT-IN-PLACE REINFORCED COLLAR CONNECTION WITH NO ADDITIONAL PAYMENT.
6. ALL END SECTIONS FOR PIPES WITH "D" OVER 24" ON SINGLE LINES WILL HAVE GALV. SAFETY BARS, SPACED NOT MORE THAN 24" ON CENTERS, AND INSTALLED PERPENDICULAR TO THE MAINLINE TRAFFIC FLOW. ALL END SECTIONS FOR MULTIPLE LINE PIPES WILL HAVE GRATES.
7. TYPICAL USE OF SAFETY END SECTIONS IS AT THE ENDS OF PIPES UNDER DRIVEWAYS OR SIDEROADS WHERE THE PIPE CULVERT IS PARALLEL TO THE MAINLINE AND FALLS INSIDE THE MAINLINE CLEAR ZONE WIDTH.

D	(MIN) GRATE LENGTH	GRATE WIDTH (TYP) #
15"	2'-4"	1'-9 5/8"
18"	2'-4"	2'-0 5/8"
24"	6'-4"	2'-6 5/8"
30"	8'-6"	3'-2 5/8"
36"	12'-4"	3'-8 5/8"
42"	14'-6"	4'-2 5/8"
48"	18'-4"	4'-10 5/8"

TYPICAL GRATE WIDTHS SHOWN ARE MEASURED FROM INSIDE TO INSIDE OF THE 3/8" THICK ANGLE IRON. GRATE FIT WITH END SECTION SHALL BE CHECKED BEFORE DELIVERY.

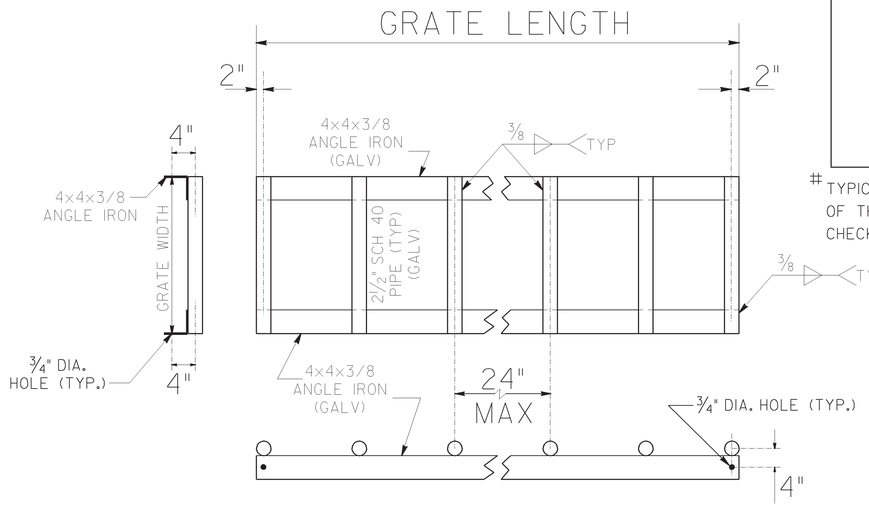


PLAN VIEW



SIDE VIEW

* 5/8" GALV. HEX HEAD BOLT, WASHER & NUT (FOUR) CONNECTIONS



GALVANIZED SAFETY GRATE DETAIL

DATE	REVISION	BY
1-28-05	REVISED TO 1122 PAGE 3	G.L.O.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(CONCRETE)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE 3

NO SCALE — OCT., 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

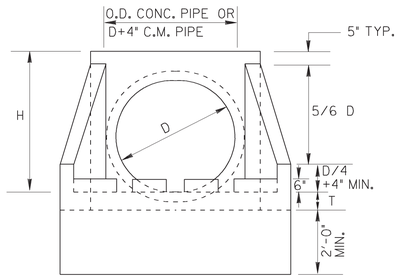
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 1122
SHEET 3 OF 3

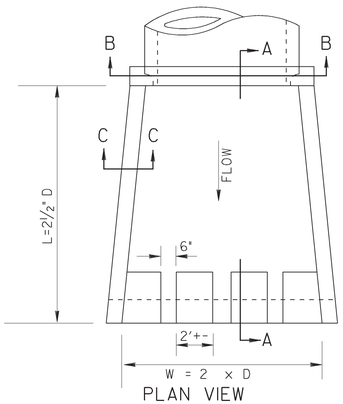
7/7/2004 10:49:45 AM \\GDOT-DSNI\GOPLOT\QCF\GO_TIFF_OUTPUT.QCF GOWENS M:\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\1125.PRF GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

OUTLET HEADWALL

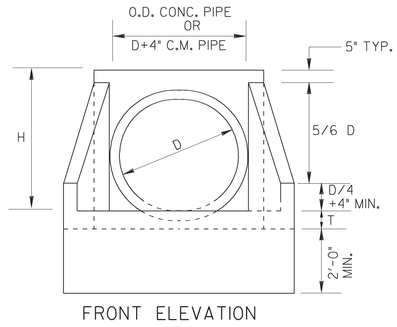


FRONT ELEVATION

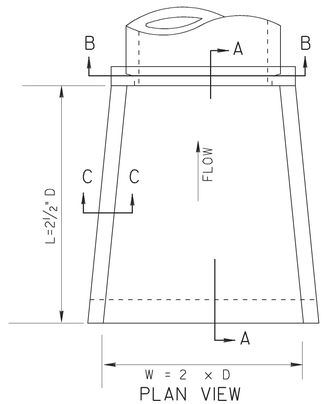


PLAN VIEW

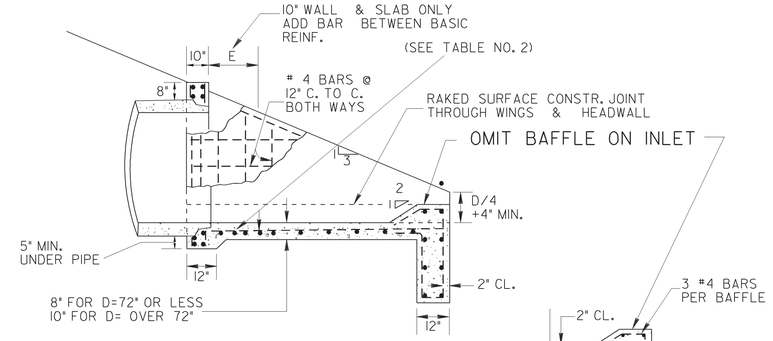
INLET HEADWALL



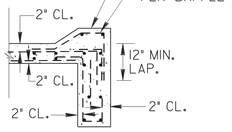
FRONT ELEVATION



PLAN VIEW

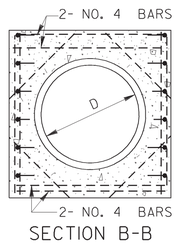


SECTION A-A

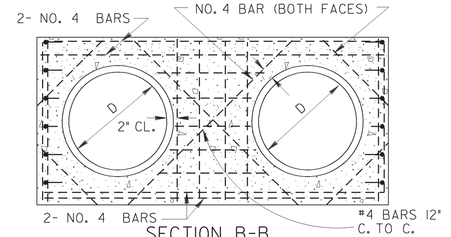


10" SLAB

D = INSIDE DIAMETER OF PIPE



SECTION B-B
(SINGLE PIPE LINE)



SECTION B-B
(MULTIPLE PIPE LINE)

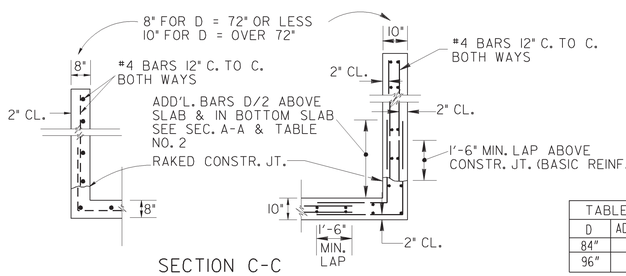
TABLE NO. 1 - QUANTITIES FOR HEADWALLS												
	CU. YDS. CONCRETE (PAY QUANTITIES) *						LBS. STEEL (GIVEN FOR INFORMATION ONLY)					
	FOR SINGLE LINE			ADD FOR ADD'L LINE			FOR SINGLE LINE			ADD FOR EACH ADD'L LINE		
D	INLET	OUTLET		INLET	OUTLET		INLET	OUTLET		INLET	OUTLET	
15"	0.87	0.93		0.60	0.66		102	113		73	83	
18"	1.10	1.16		0.85	0.93		106	117		93	104	
24"	1.61	1.69		1.29	1.37		127	138		124	134	
30"	2.21	2.32		1.83	1.96		170	180		154	164	
36"	2.92	3.05		2.49	2.63		238	254		196	212	
42"	3.73	3.87		3.00	3.17		290	306		231	247	
48"	4.62	4.80		3.58	3.74		335	351		265	281	
54"	5.63	5.83		4.17	4.38		407	428		319	340	
60"	6.72	6.95		4.82	5.01		456	477		360	391	
72"	9.22	9.48		6.24	6.46		623	649		475	494	
84"	14.84	15.19		9.05	9.29		1517	1539		1017	1044	
96"	18.88	19.27		11.13	11.41		2118	2150		1323	1350	

*NOTE:
QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

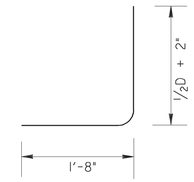
H = D + 10" MIN. FOR C.M. PIPE
H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE
(13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS
T = 10" FOR D = OVER 72"



SECTION C-C

TABLE NO. 2		
D	ADD'L.BAR	E
84"	#4	5'
96"	#4	8'



ADDITIONAL BAR DETAIL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)

NO SCALE — REV. & REDR. OCT., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Keaveny — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Paul L. Liddy — CHIEF ENGINEER

NUMBER 1125

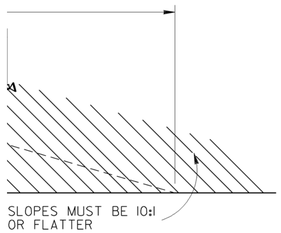
DATE | REVISION | BY

7/7/2004 10:49:45 AM \\GDOT-DSNI\GOPLOT\QCF\GO_TIFF_OUTPUT.QCF GOWENS M:\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\1125.PRF

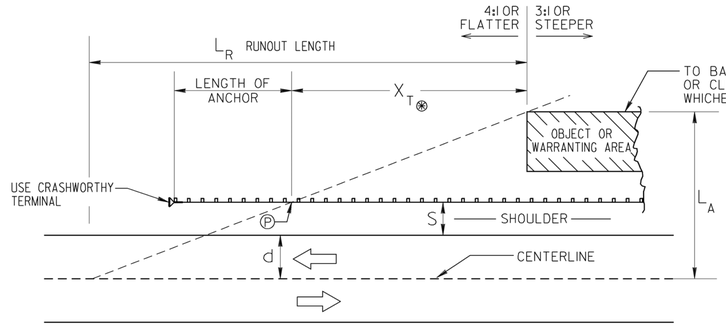
LENGTH OF GUARDRAIL ADVANCEMENT AT FIXED OBJECTS OR AT WARRANTING FILL SLOPES (TYPICAL)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

STANDARD

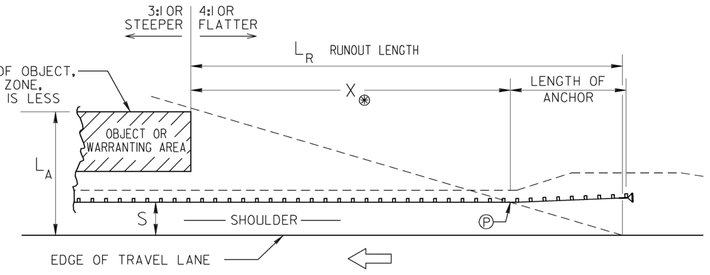


$$X_A = \frac{L_A + (b/a)L - S}{b/a + (L_A/L_R)}$$



$$X_T = L_R \times \frac{L_A - (S+d)}{L_A}$$

(TRAILING END)



$$X = L_R \times \frac{L_A - S}{L_A}$$

(APPROACH END)

DESIGN SPEED (MPH)	L_R Runout Length in feet			
	OVER 10000 (A,D,T,)	5000-10000 (A,D,T,)	1000-5000 (A,D,T,)	UNDER 1000 (A,D,T,)
80	470	430	380	330
70	360	330	290	250
60	300	250	210	200
50	230	190	160	150
40	160	130	110	100
30	110	90	80	70

S = NORMAL WIDTH OF USUABLE SHOULDER PLUS 2 FT (TYP.)

Ⓟ = BEGINNING OF TERMINAL (TYP.)

⊛ X_A, X_T, AND X MEASURED TO THE END OF W-BEAM, WHERE TERMINAL BEGINS

CLEAR ZONE DISTANCES

BACKSLOPES	
IV:5H TO IV:4H	IV:6H OR FLATTER
7-10	7-10
12-14	12-14
14-16	14-16
16-18	16-18
8-10	10-12
12-14	14-16
14-16	16-18
18-20	20-22
10-12	10-12
14-16	16-18
16-18	20-22
20-22	22-24
12-14	14-16
16-18	20-22
18-22	24-26
24-26	26-28
14-16	14-16
18-20	20-22
22-24	26-28
26-30	28-30

NTINUING CRASHES OR
R MAY PROVIDE CLEAR-ZONE
MAY BE LIMITED TO 30 FT.
PREVIOUS EXPERIENCE
E.

3H FILL SLOPES, FIXED OBJECTS
RECOVERY OF HIGH-SPEED
XPECTED TO OCCUR BEYOND
A AT THE TOE OF SLOPE SHOULD
FACTORS, SAFETY NEEDS, AND
GH TRAVELED LAND AND THE
ROVIDED AT THE TOE OF SLOPE.
R ALL TRAVERSABLE, NON

HORIZONTAL CURVE ADJUSTMENTS

RADIUS (FEET)	K_{CZ} (CURVE CORRECTION FACTOR) DESIGN SPEED (MPH)					
	40	45	50	55	60	70
2950	1.1	1.1	1.1	1.2	1.2	1.2
2300	1.1	1.1	1.2	1.2	1.2	1.3
1970	1.1	1.2	1.2	1.2	1.3	1.4
1640	1.1	1.2	1.2	1.3	1.3	1.4
1475	1.2	1.2	1.3	1.3	1.4	1.5
1315	1.2	1.2	1.3	1.3	1.4	
1150	1.2	1.2	1.3	1.4	1.5	
985	1.2	1.3	1.4	1.5	1.5	
820	1.3	1.3	1.4	1.5		
660	1.3	1.4	1.5			
495	1.4	1.5				
330	1.5					

$CZ_C = (L_C)(K_{CZ})$

Where:

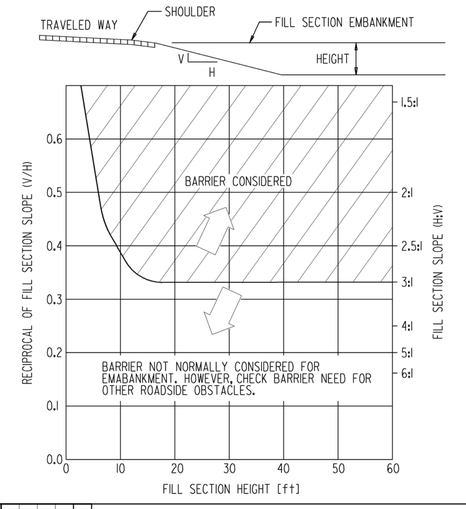
CZ_C = CLEAR ZONE ON OUTSIDE OF CURVATURE, FEET

L_C = CLEAR ZONES DISTANCE, FEET (SEE CHART AT LEFT)

K_{CZ} = CURVE CORRECTION FACTOR

NOTE:
THE CURVE CORRECTION FACTOR IS APPLIED TO THE OUTSIDE OF CURVES ONLY. CORRECTIONS ARE TYPICALLY MADE ONLY TO CURVES LESS THAN 2,950-FT RADIUS.

COMPARATIVE BARRIER CONSIDERATION FOR EMBANKMENTS



F.B.F.	REV. ANCH. LOC.; UPDATED FLARE TBL; ADDED CHART	1-29-16
B.J.O.	REVISED TO 2011RDG	4-16-15
	REMOVED SLOPE WARRENTS	
G.L.O.	REVISED GUARDRAIL AND CLEAR ZONE	9-4-07
BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GUARDRAIL WARRANT GUIDES
LENGTHS OF ADVANCEMENT
CLEAR ZONE DISTANCES
FILL HEIGHT EMBANKMENTS

NOT TO SCALE DEC., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

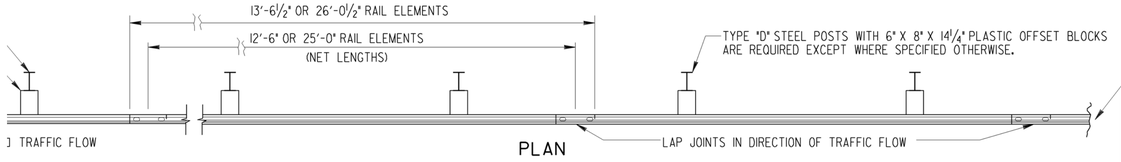
(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) Margaret B Pisele CHIEF ENGINEER

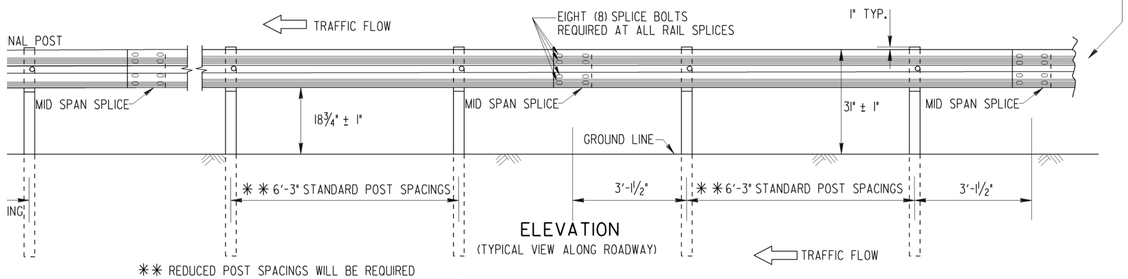
NUMBER 4000W

...ards\GA Standards\4380\Revision_2016-1-29\4380_Revised_2016-1-29.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

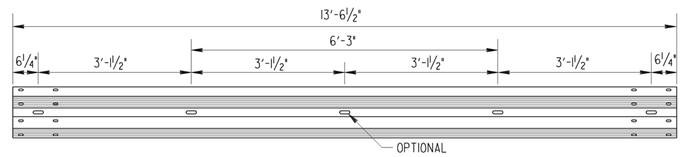


PLAN

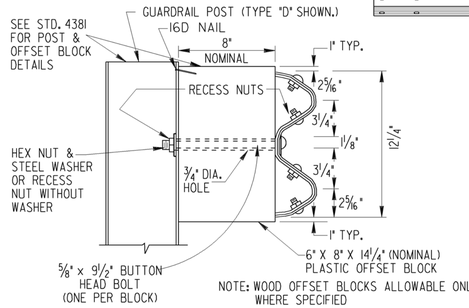


ELEVATION
(TYPICAL VIEW ALONG ROADWAY)

** REDUCED POST SPACINGS WILL BE REQUIRED AT TURNOUTS AROUND RADII, AT REDUCED OFFSETS TO FACE OF FIXED OBJECTS OR AT OTHER SPECIFIED LOCATIONS. SEE PLAN DETAILS OR APPLICABLE STANDARDS. PAYMENT FOR GUARDRAIL WILL INCLUDE THE ADDITIONAL POSTS REQUIRED.



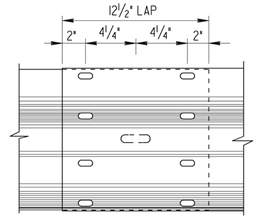
12'-6" W-BEAM SECTION



NOTE: WOOD OFFSET BLOCKS ALLOWABLE ONLY WHERE SPECIFIED

"W" BEAM OFFSET BLOCK DETAIL

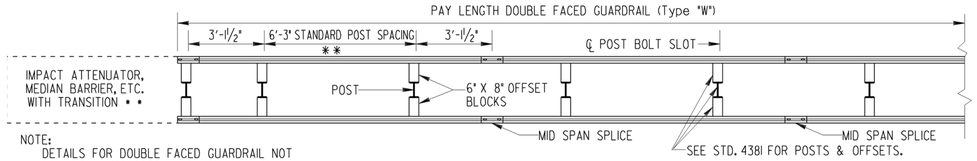
NOTE: OFFSET BLOCKS FOR "W" BEAM GUARDRAIL WILL BE PLASTIC EXCEPT WHERE SPECIFIED OTHERWISE.



"W" BEAM SPLICE MID SPAN

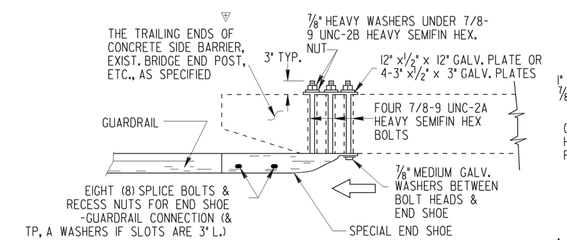
NOTE:
EIGHT (8) SPLICE BOLTS REQUIRED AT ALL RAIL SPLICES

NOTE:
UNLESS SPECIFIED OTHERWISE, ALL REFERENCES TO GUARDRAIL ON STANDARDS AND/OR CONSTRUCTION DETAILS WILL MEAN "W" BEAM GUARDRAIL AS SHOWN ON THIS STANDARD.



NOTE:
DETAILS FOR DOUBLE FACED GUARDRAIL NOT SHOWN ARE SIMILAR TO THAT SHOWN FOR SINGLE FACED RAIL.

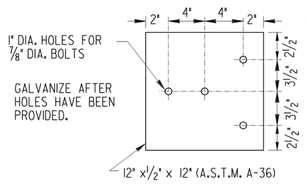
DOUBLE FACED GUARDRAIL (Type "W")



TYPICAL END SHOE CONNECTION

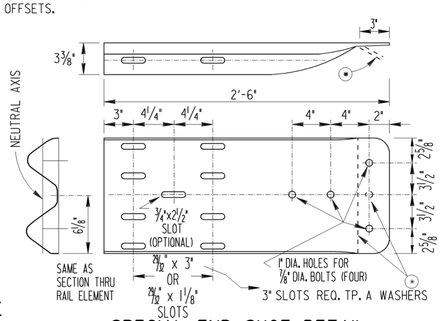
NOTE: THE "W" BEAM RAIL ELEMENT/END SHOE SPLICE SHALL BE LAPPED IN THE DIRECTION OF THE NEAREST TRAFFIC.

▽ "W" BEAM END CONNECTIONS ARE NOT PERMITTED AT APPROACHES TO CONCRETE STRUCTURES. SEE SEPARATE STANDARDS FOR REQUIRED "T" BEAM CONNECTIONS.



1/2" GALVANIZED STEEL PLATE

(TO BE USED WITH SPECIAL END SHOE CONNECTION UNDER NUTS & WASHERS ON BACK OF BRIDGE END POST OR BACK OF CONCRETE SIDE BARRIER) (FOUR 3" x½" x 3" GALV. PLATES WITH 1" DIA. HOLE CENTERED, MAY BE USED AS AN ALTERNATE)

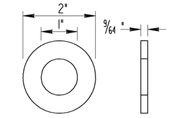


SPECIAL END SHOE DETAIL

(FOR USE IN CONNECTING GUARDRAIL TO BRIDGE END POST, CONCRETE BARRIERS, ETC.)

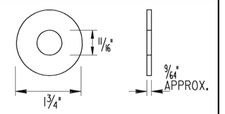
SPECIAL END SHOE WILL BE 10 GAUGE STEEL GALVANIZED ACCORDING TO A.A.S.H.T.O. M-111

⊙ APPLIES ONLY TO END SHOE WITH BUFFERED END ASSEMBLY OF ANCHORAGE.



TYPE A WASHER (GALV.)

IF SLOTS IN SPECIAL END SHOE ARE 3" LONG TP. A WASHERS ARE REQ'D UNDER SPLICE BOLT HEADS & UNDER NUTS WITH 2" LONG SPLICE BOLTS. IF END SHOE SLOTS ARE 1⅛" LONG, USE NORMAL SPLICE CONNECTIONS

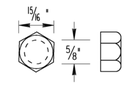


STEEL WASHER (GALV.)

(REQ'D. UNDER ⅝" HEX NUTS AND AS SPECIFIED)

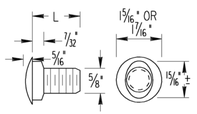
SPECIAL NOTE:
ALL GUARDRAIL SPLICES WILL BE PROPERLY SECURED WITH EIGHT SPLICE BOLT CONNECTIONS. ALL NUTS WILL BE TIGHTENED. LOOSE NUTS, OMITTED BOLTS, OR OMITTED NUTS WILL BE CAUSE FOR REJECTION.

GUARDRAIL NOT ERECTED AT A 31" TOP OF RAIL HEIGHT MAY BE CAUSE FOR REJECTION.



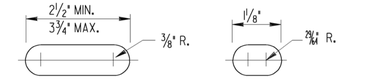
⅝" DIA. HEX NUT

L	THREAD LENGTH
1¼"	FULL LENGTH
2"	1½" MIN.
9½"	1¾" MIN.

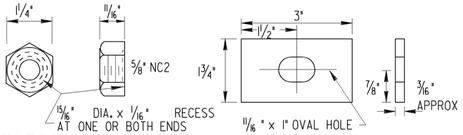


BUTTON HEAD (OR SPLICE) BOLT

(8 REQ'D PER SPLICE)



POST BOLT SLOT SPLICE BOLT SLOT



RECESS NUT RECTANGULAR WASHER (GALV.)

(FOR USE AT TERMINAL POST OR WHERE SPECIFIED)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTBA TECHNICAL BULLETIN NO. 268 _ UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 438I.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, LEAVE-OUTS INCLUDING GROUT WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

BY	REVISION	DATE
FBF	REV. W-BM BLOCK TO 8" DEPTH	1-29-16

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
"W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT

NO SCALE AUGUST 2011

DES. G.L.O.
DRW. G.L.O.
CHK. B.R.E.
REVIEW B.A.S.

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) Margaret B Pinelo CHIEF ENGINEER

NUMBER 4380

...lighting\Standards\GA Standards\4380\Revision_2016-1-29\4380_Revised_2016-1-29.prf

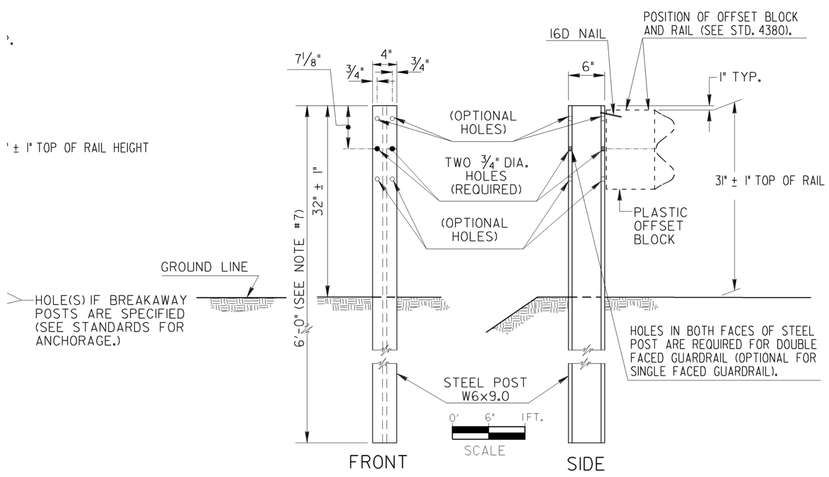
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

IL)

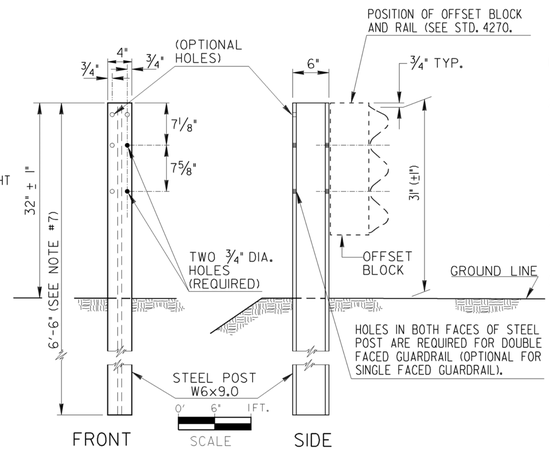
'.

'± 1" TOP OF RAIL HEIGHT

TYPE D STEEL POST (FOR "W" BEAM GUARDRAIL)



TYPE D-T STEEL POST (FOR "T" BEAM GUARDRAIL)



GENERAL NOTES:

1. SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
2. STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
3. WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
4. ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST 1/4" BEYOND THE FULL NUT, UP TO 3" BEYOND.
5. (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.

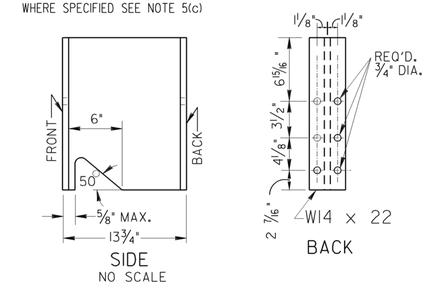
   (b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.

   (c) 13 3/4" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP T, MODIFIED OFFSET BLOCK---PER LIN. FT.

   (d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
6. POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
7. ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.
8. 9'-0" POST REQUIRED IF GUARDRAIL INSTALLED ON A 2:1 SLOPE.
9. GROUT FILL SHALL BE A CONTROLLED LOW STRENGTH FLOWABLE FILL THAT HAS A MAXIMUM 28-DAY COMPRESSIVE STRENGTH OF 100 P.S.I. ACCORDING TO SPEC. 600.

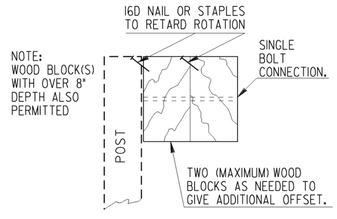
DIFIED STEEL OFFSET BLOCK OR "T" BEAM GUARDRAIL

E: MODIFIED STEEL OFFSET BLOCK ARE USED ONLY WHERE SPECIFIED SEE NOTE 5(c)



ADDITIONAL DEPTH OFFSET BLOCKOUTS

(FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)

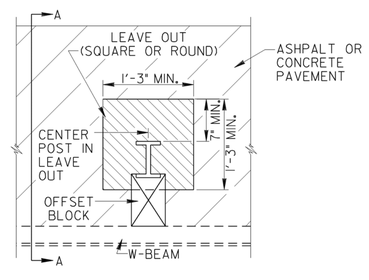


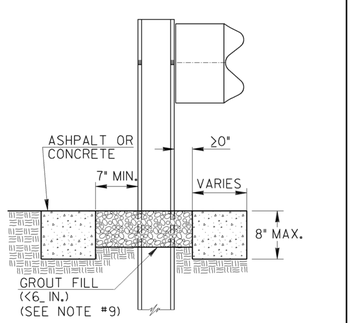
NOTE: ADDITIONAL DEPTH OFFSETS BELOW ARE SHOWN FOR "W" BEAM. SIMILAR OFFSETS MAY BE APPLIED FOR "T" BEAM GUARDRAIL.

NOTE: ADDITIONAL DEPTH OFFSETS ARE PERMITTED ONLY WHERE AN ISOLATED POST MUST BE PLACED AT A GREATER THAN NORMAL OFFSET.

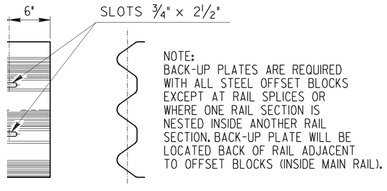
NOTE: FOR BLOCK CONNECTION TO POST AND TO RAIL SEE STD. 4380 OR 4385.

GUARDRAIL POST DETAILS IN ASPHALT OR CONCRETE PAVEMENT APPLICATIONS





JP PLATE (FOR "T" BEAM GUARDRAIL)

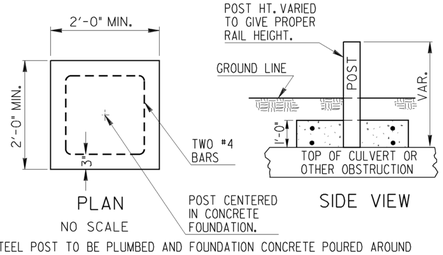


ONT

SAME AS SECTION THROUGH RAIL (STANDARD 4270)

CONCRETE FOUNDATION FOR POST IN SHALLOW FILLS OVER CULVERTS OR OTHER OBSTRUCTIONS

(NOTE: PLATE MOUNTED POST MAY BE USED AS AN ALTERNATE, SEE SEPARATE SHEET).

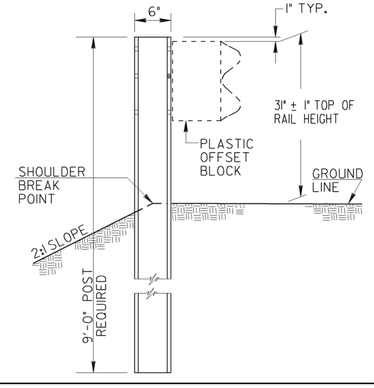


STEEL POST TO BE PLUMBED AND FOUNDATION CONCRETE POURED AROUND POST TO FINISHED ELEVATION.

PAYMENT FOR GUARDRAIL TO INCLUDE ALL EXTRA WORK AND MATERIALS INCLUDING CONCRETE (CL. A OR CL. B) AND NO. 4 BARS.

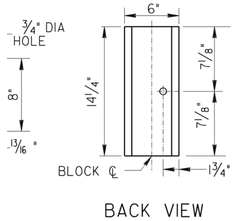
IF OFFSET FROM RAIL FACE TO HEADWALL IS LESS THAN 4'-3", POST SPACINGS ARE REDUCED TO 3'-1 1/2" C.C. ACROSS THE CULVERT WITH 7 SUCH SPACINGS IN ADVANCE AT NO ADDITIONAL PAYMENT.

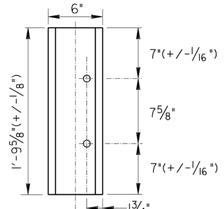
2:1 SLOPE DETAIL



GUARDRAIL PLASTIC OFFSET BLOCKS

LASTIC OFFSET BLOCKS SHALL BE OF YPE LISTED IN GA. DOT QPL OF APPROVED RODUCTS OR PER STANDARD SPECIFICATIONS.





CT TO RANCES.

REV. W-BM BLOCK TO 8" DEPTH	1-29-16
ADDED MOW STRIP/RIGID PAV. INSTALLATION DETAILS	
REVISION	DATE
FBF	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL
31 INCH GUARDRAIL HEIGHT

SCALE: AS SHOWN — AUGUST 2011

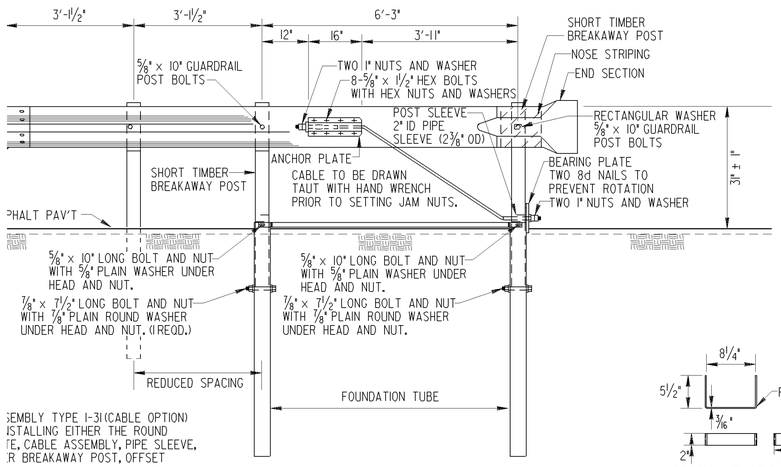
DES.	G.L.O.	(SUBMITTED) STATE DESIGN POLICY ENGINEER
DRW.	G.L.O.	
CHK.	B.R.E.	(APPROVED) Margaret B Pirkle CHIEF ENGINEER
REVIEW	B.A.S.	

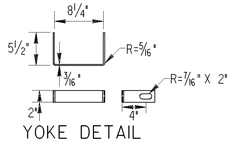
NUMBER 4381

all files\4383.pdf GO-RD6

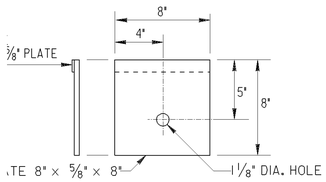
guardrail standards\4012D rev 4383.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

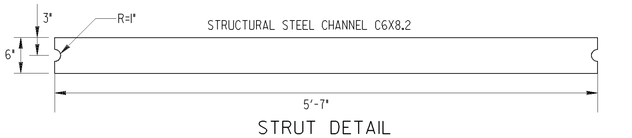




YOKE DETAIL

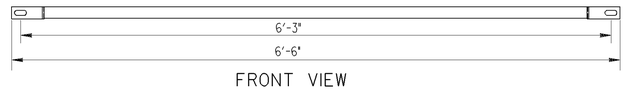


BEARING PLATE

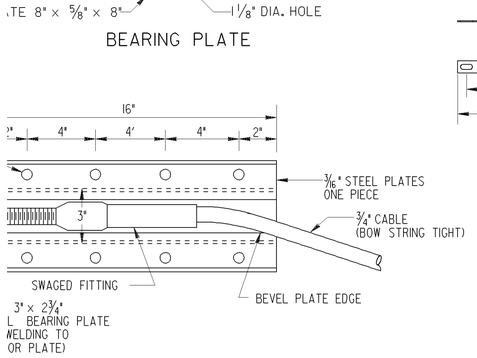


STRUT DETAIL

PLAN



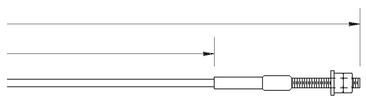
FRONT VIEW



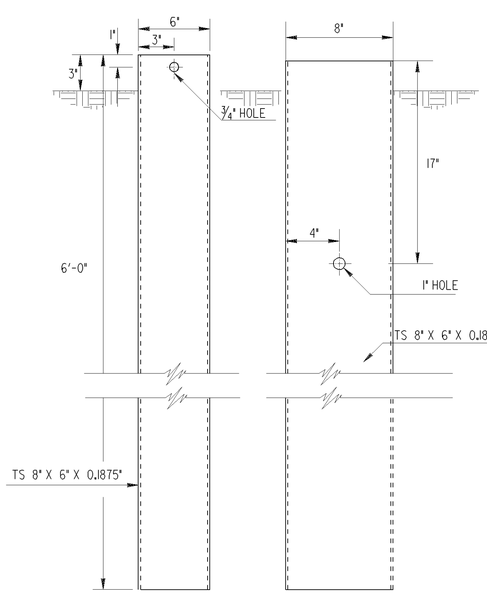
NOTE:
ANCHOR PLATES SHOWN HERE WITH GUARDRAIL (TYPE "W") ATTACHMENT TO GUARDRAIL (TYPE "T") WILL BE THE SAME EXCEPT THAT THE ANCHOR PLATE WILL BE LOCATED BETWEEN THE BOTTOM AND MIDDLE CORRUGATIONS.

¼"

CHOR PLATE DETAILS



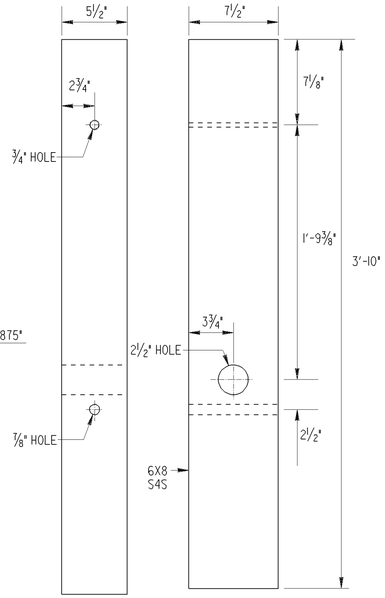
LE



FRONT VIEW SIDE VIEW

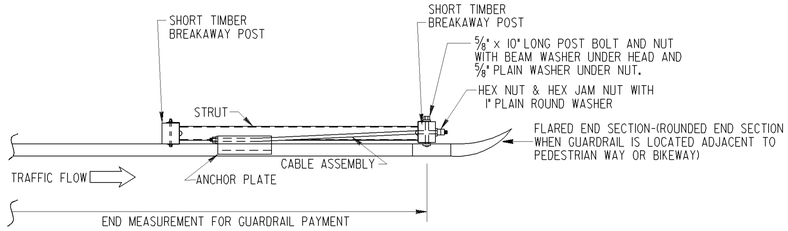
FOUNDATION TUBE

NOTE: SEE STANDARD 4382 FOR GUARDRAIL CONNECTION TO CONCRETE FACE.

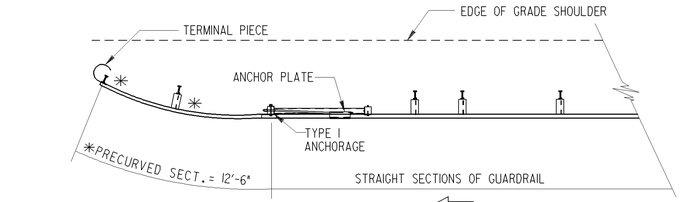


FRONT VIEW SIDE VIEW

SHORT TIMBER BREAKAWAY POST

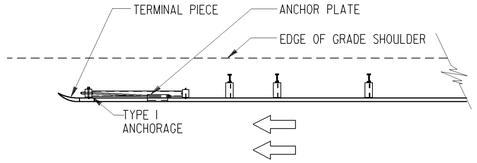


CABLE ANCHOR



* PRECURVED SECTION SHALL UTILIZE POST OF THE SAME LENGTH AS REQUIRED FOR THE ADJOINING STRAIGHT SECTIONS, REGARDLESS OF DISTANCE TO GRADED SHOULDER EDGE.

AT TRAILING END OF TWO-WAY TRAFFIC
(WHICH FALLS OUTSIDE CLEAR ZONE OF OPPOSING TRAFFIC)



AT TRAILING END OF ONE-WAY TRAFFIC

NOTE:
SEE STD. 4388 OR OTHER APPLICABLE DETAILS FOR REQUIREMENT FOR TYPE 12 ANCHORAGE ON THE TRAILING END.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERE TO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, OTHER TYPE ANCHORAGE, LOCATION, ETC. SEE SEPARATE STANDARDS AS APPLICABLE.
3. GUARDRAIL INSTALLATIONS, INCLUDING ANCHORAGES AND CONNECTIONS, ARE TO BE COMPLETED BEFORE BEING SUBJECT TO TRAFFIC UNLESS OTHERWISE APPROVED.
4. PAYMENT FOR ANCHORAGE INCLUDES ANCHOR PLATE; ¾" CABLE; BREAKAWAY POSTS; FOUNDATION TUBES; STRUT AND ALL ACCOMPANYING HARDWARE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL ANCHORAGE TYPE I 31 INCH GUARDRAIL HEIGHT

NO SCALE — AUGUST 2011

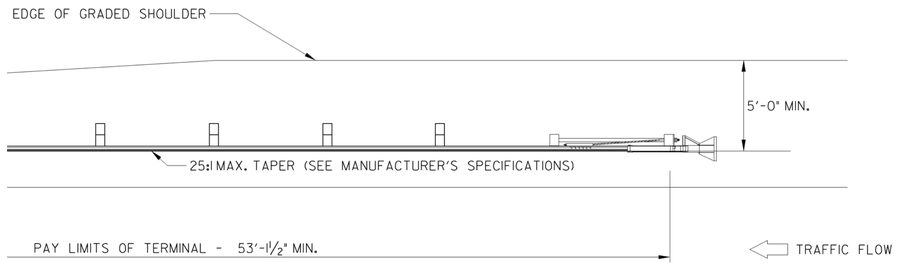
BY			DATE
DES.	G.L.O.	(SUBMITTED)	
DRW.	G.L.O.	STATE DESIGN POLICY ENGINEER	
CHK.	B.R.E.	(APPROVED) Donald M Rus	
REVIEW	B.A.S.	CHIEF ENGINEER	

REVISION

NUMBER 4383

all files\4383.pdf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

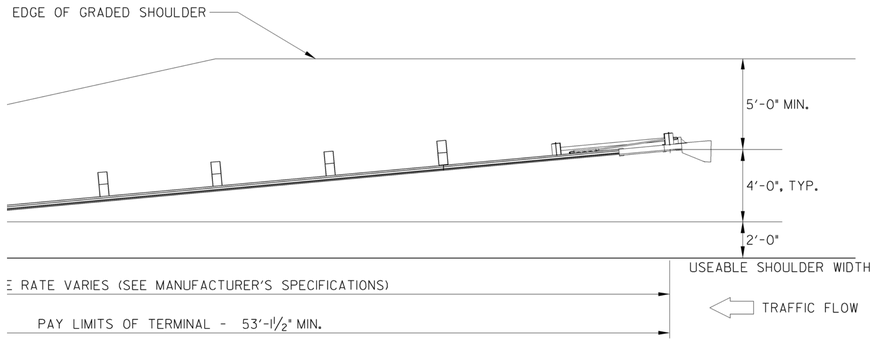


TYPE 12A - 31" GUARDRAIL TERMINAL
(TANGENT, ENERGY-ABSORBING)

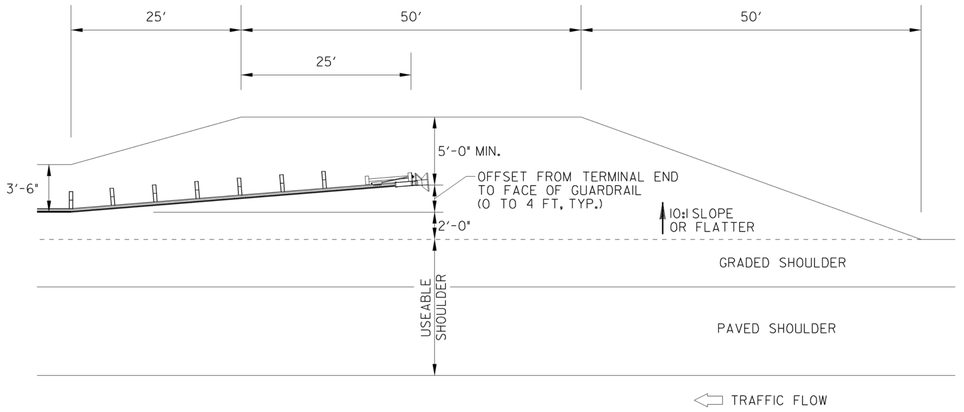
GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SEE GDOT QPL 64 FOR APPROVED PRODUCTS.
3. THIS SHEET DEPICTS THE PAY LIMITS FOR GUARDRAIL AND TYPE 12 TERMINALS. TYPE 12 TERMINALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. W-BEAM INSTALLATIONS LESS THAN 150 FEET IN ADVANCE OF ANY SHIELDED OBJECT OR TOTAL LENGTH OF W-BEAM INSTALLATION IS LESS THAN ABOUT 150 FEET, AN ENGERGY-ABSORBING TERMINAL SHOULD BE SELECTED.

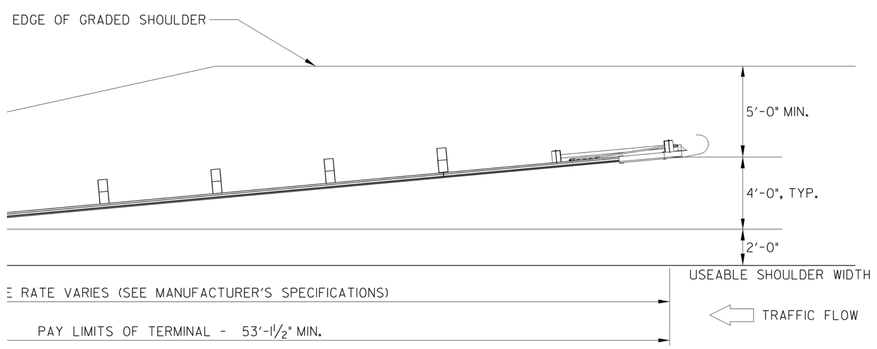
ITEM NO.	UNITS	DESCRIPTION
641-5015	EA	GUARDRAIL TERMINAL, TP 12A - 31", TANGENT, ENERGY-ABSORBING
641-5020	EA	GUARDRAIL TERMINAL, TP 12B - 31", FLARED, ENERGY-ABSORBING
641-5025	EA	GUARDRAIL TERMINAL, TP 12C - 31", FLARED, NON-ENERGY-ABSORBING



TYPE 12B - 31" GUARDRAIL TERMINAL
(FLARED, ENERGY-ABSORBING)



TERMINAL PAD GRADING DETAIL



TYPE 12C - 31" TERMINAL
(FLARED, NON-ENERGY-ABSORBING)

REVISION	BY	DATE
ADDED 12A, 12B, & 12C ADDED GRADING DTL	FBF	1-29-16

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL TERMINALS,
TYPE 12A, 12B, AND 12C
31 INCH GUARDRAIL HEIGHT

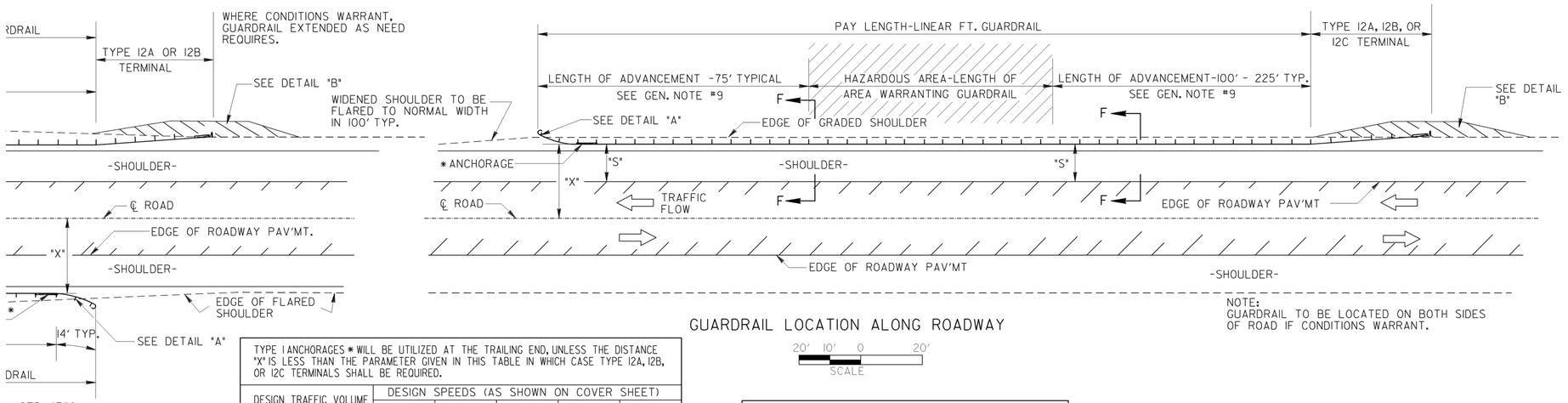
NO SCALE — AUGUST 2011

DES. G.L.O. (SUBMITTED) _____ STATE DESIGN POLICY ENGINEER
DRW. G.L.O.
CHK. B.R.E.
REVIEW B.A.S. (APPROVED) Margaret B Pirkle CHIEF ENGINEER

NUMBER 4384

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

HALL BE STRAIGHT FOR
GER INSTALLATIONS. OR
E AS PER DETAIL AT



GUARDRAIL LOCATION ALONG ROADWAY

20' 10' 0 20'
SCALE

NOTE:
GUARDRAIL TO BE LOCATED ON BOTH SIDES OF ROAD IF CONDITIONS WARRANT.

TYPE I ANCHORAGES * WILL BE UTILIZED AT THE TRAILING END, UNLESS THE DISTANCE "X" IS LESS THAN THE PARAMETER GIVEN IN THIS TABLE IN WHICH CASE TYPE 12A, 12B, OR 12C TERMINALS SHALL BE REQUIRED.

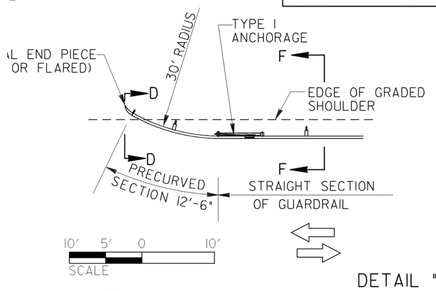
DESIGN TRAFFIC VOLUME	DESIGN SPEEDS (AS SHOWN ON COVER SHEET)				
	40 MPH	50 MPH	55 MPH	60 MPH	70 MPH
OVER 6000 A.D.T.	14'	20'	22'	30'	30'
1500 - 6000 A.D.T.	12'	16'	20'	26'	28'
750 - 1500 A.D.T.	10'	14'	16'	20'	24'
UNDER 750 A.D.T.	7'	10'	12'	16'	20'

"S" IS THE OFFSET TO THE FACE OF THE GUARDRAIL; THIS WILL BE TWO(2) FEET GREATER THAN THE USABLE SHOULDER WIDTH (PER AASHTO MINIMUM SHOULDER REQUIREMENTS) EXCEPT WHERE THE CURRENT A.D.T. IS UNDER 400, IN WHICH CASE "S" MAY BE EQUAL TO THE USABLE OR GRADED SHOULDER WIDTH (NOT LESS THAN 4).

GENERAL NOTES:

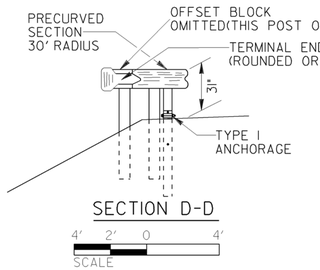
1. GUARDRAIL, ITS FITTINGS, PARTS, ETC. ARE TO BE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
2. FOR DETAILS OF BEAM TYPE GUARDRAIL, ACCESSORIES, GUARDRAIL POST, OFFSET BLOCKS, GUARDRAIL ANCHORAGE TYPE I, TERMINALS TYPE 12A, 12B, AND 12C, & BRIDGE END CONNECTION DETAILS, SEE APPLICABLE GEORGIA STANDARD PLANS AND/OR CONSTRUCTION DETAILS.
3. ALL OFFSET AND LENGTHS HERE SHOWN ARE APPLIED TO FACE OF GUARDRAIL.
4. POST SPACING SHALL BE 6'3" C. TO C., UNLESS OTHERWISE NOTED.
5. TYPE 12A, 12B, AND 12C TERMINALS SHOULD BE TERMINATED ON SLOPES 10:1 OR FLATTER. WHERE NORMAL SLOPE IS STEEPER, A 10:1 OR FLATTER SLOPE SHOULD BE CONSTRUCTED.
6. GUARDRAIL SHALL NOT BE ERECTED ON SLOPES WHICH ARE STEEPER THAN 10:1, EXCEPT FOR THE PORTION OF PRECURVED (SHOP CURVED) SECTION THAT EXTENDS BACK OF THE SHOULDER AS SHOWN IN DETAIL "A" WHICH IS ERECTED ON NORMAL SLOPES OR EXCEPT WHERE SHOWN OTHERWISE IN PLANS.
7. PAY LENGTH SHALL BE MEASURED ALONG FACE OF GUARDRAIL.
8. W. BEAM GUARDRAIL WILL HAVE A CONSTANT TOP OF RAIL HT. OF 31" THROUGHOUT INSTALLATION EXCEPT WHERE A PORTION OF THE PRECURVED SECTION SHOWN IN DETAIL "A" EXTENDS BACK OF THE GRADED SHOULDER.
9. GUARDRAIL WILL EXTEND PAST HAZARD ON BOTH THE APPROACH & TRAILING ENDS TO PREVENT VECHICLE PENETRATION BEHIND THE RAIL INTO THE HAZARDOUS AREA. THE TYPICAL LENGTHS OF ADVANCEMENT SHOWN MAY BE INCREASED OR DECREASED WHEN SHOWN IN THE PLANS, OR WHERE DIRECTED BY THE ENGINEER BECAUSE OF SPEED DESIGN, ROADSIDE GEOMETRY, SIZE OF HAZARD, OR OTHER CONDITIONS. IF FURTHER INFORMATION IS DESIRED; SEE THE AASHTO "ROADSIDE DESIGN GUIDE".

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL, TERMINALS, AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL, TERMINALS, AND ANCHORAGES WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY.

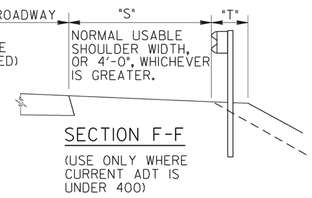


DETAIL "A"

NOTE:
DETAIL "A" IS FOR USE ONLY WHERE TYPE I ANCHORAGES ARE PERMITTED AS SHOWN ABOVE OTHERWISE, SEE DETAIL "B" FOR PROPER INSTALLATION OF TYPE 12A, 12B, OR 12C TERMINAL.



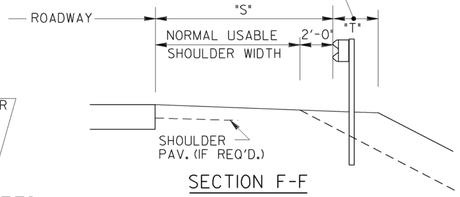
SECTION D-D



SECTION F-F

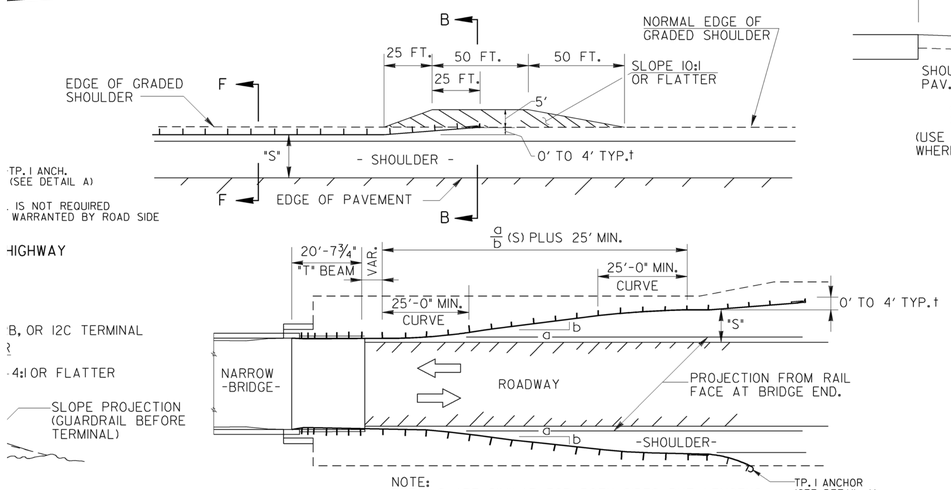
(USE ONLY WHERE CURRENT ADT IS UNDER 400)

"T"=3'-6" NORMAL LENGTH POST; MAY BE REDUCED TO 2'-6" WITH 7'-0" LENGTH POST, AS DIRECTED BY THE ENGINEER.



SECTION F-F

(USE FOR ALL CONDITIONS, EXCEPT WHERE CURRENT ADT IS UNDER 400.)



NOTE:
DETAILS ARE SIMILAR FOR BOTH SIDES, BUT LENGTHS AND ANCHORAGE/TERMINAL TYPES MAY DIFFER.

GUARDRAIL LOCATION AT END OF NARROW BRIDGE

(NOTE: DETAILS NOT SHOWN HERE ARE SIMILAR TO THOSE AT TOP LEFT.)

FLARE RATE			
DESIGN SPEED (mph)	SHY-LINE OFFSET (ft)	(a/b) BARRIER INSIDE SHY-LINE	(a/b) BARRIER AT OR BEYOND SHY-LINE
70	9	30	15
60	8	26	14
55	7	24	12
50	6.5	21	11
45	6	18	10
40	5	16	8
30	4	13	7

IF THE OFFSET FROM THE EDGE OF THE TRAVEL LANE TO THE FACE OF THE GUARDRAIL AT ANY POINT ALONG THE INSTALLATION IS LESS THAN THE SHY-LINE OFFSET, USE THE FLATTER RATES GIVEN IN THE TABLE.

† SEE GA STANDARD 4384 FOR OFFSETS AND FLARE RATES FOR TYPE 12A, 12B, AND 12C TERMINALS.

BY	DATE	REVISION
FBF	1-29-16	REV TP 12 TO 12A/B/C; REV NOTES, AND FLARE TBL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO THE ROADWAY) 31 INCH GUARDRAIL HEIGHT

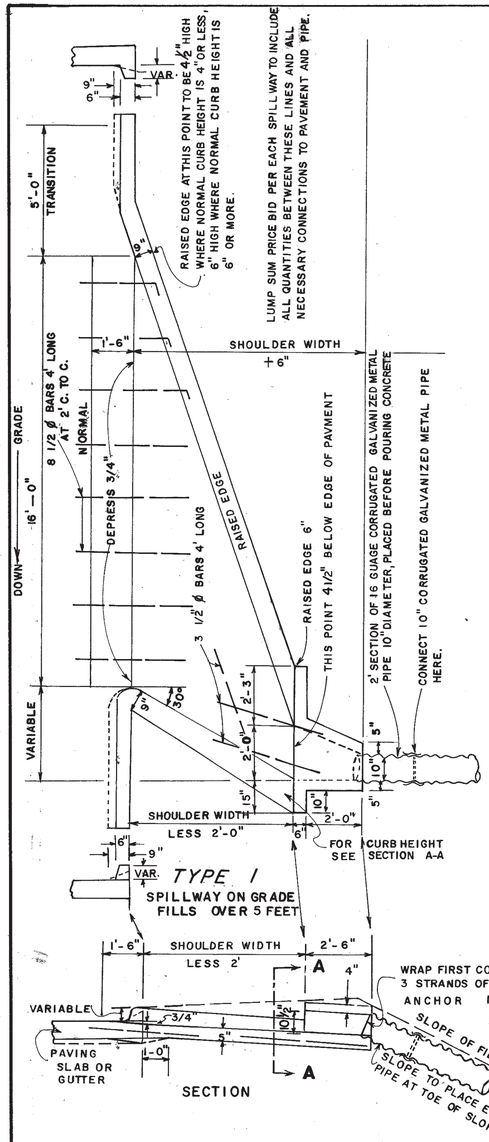
SCALE AS SHOWN AUGUST 2011

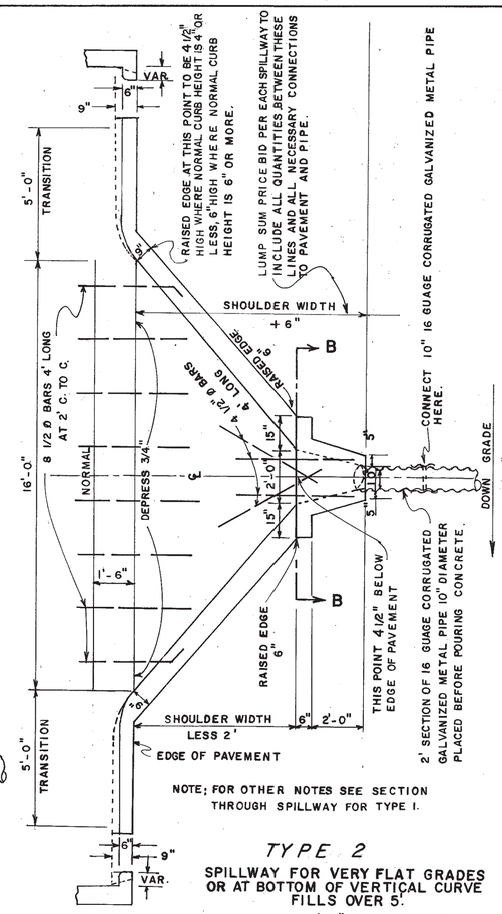
DES. G.L.O.
DRW. G.L.O.
CHK. B.R.E.
REVIEW B.A.S.

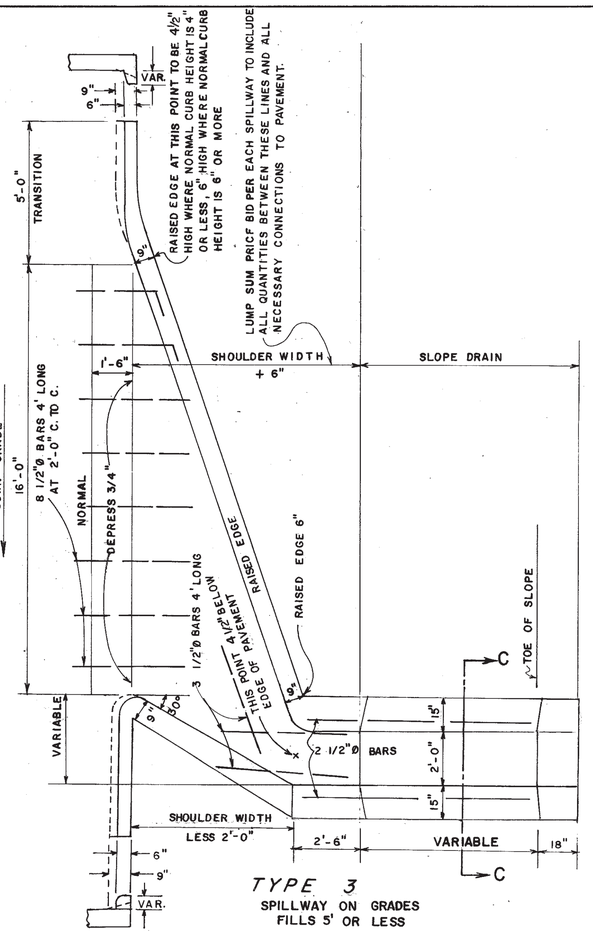
(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) CHIEF ENGINEER

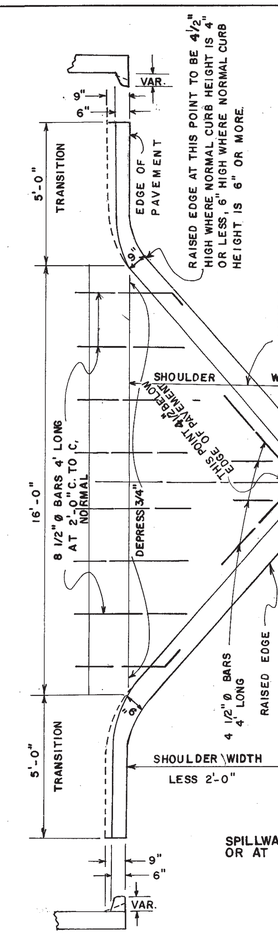
NUMBER 4388

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		



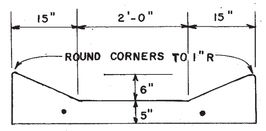




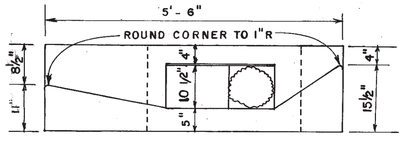


GENERAL NOTES:

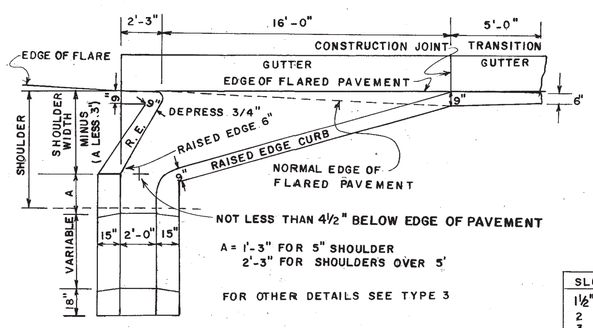
1. SPECIFICATIONS: GEORGIA STANDARD AND/OR SPECIAL PROVISIONS
2. CONCRETE SHALL BE ACCORDING TO SEC.441 OR SAME AS RIGID PAVING.
3. APRON TO BE REQUIRED AT OUTLET OF SLOPE DRAIN PIPE UNLESS CONCRETE DITCH PAVING IS PROVIDED.



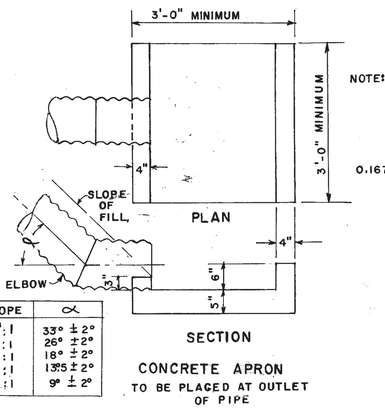
SECTION C-C



SECTION A-A



MODIFICATION OF SPILLWAY FOR USE AT END OF CURB AND GUTTER, WHERE NON-RIGID TYPE OF PAVEMENT IS USED.



CONCRETE APRON
TO BE PLACED AT OUTLET OF PIPE

SLOPE	∝
1½":1	33° ± 2°
2 :1	26° ± 2°
3 :1	18° ± 2°
4 :1	13°5 ± 2°
6 :1	9° ± 2°

NOTE: MORTAR RUBBLE MASONRY, SAND CEMENT BAG RIPRAP 6" THICK, OR STONE GROUT RIPRAP MAY BE SUBSTITUED FOR CONCRETE IN CONSTRUCTION OF THE APRON.

QUANTITIES:

0.167 CU. YDS. CLASS "B" CONCRETE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE SPILLWAYS

(TYPICAL USE: ALONG ROADWAY AT END OF CURB)

NO SCALE — REV. & REDR. FEBRUARY, 1981

DES. 7-58 (SUBMITTED) Hard E. Boudy
DRW. R.M.U. STATE ROAD & AIRPORT DESIGN ENGR.
TRA. G.M.E. (APPROVED) Thomas D. Moreland
CHK. R.K.C. STATE HIGHWAY ENGINEER

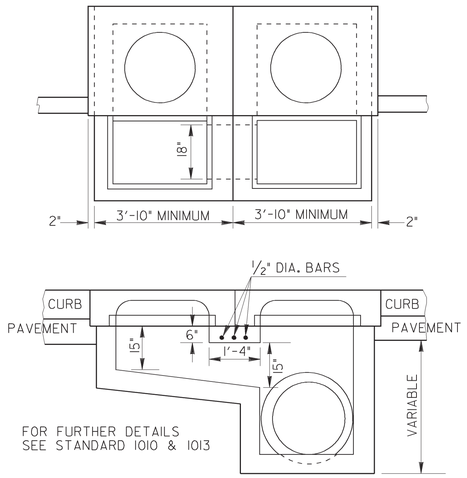
NUMBER 9013

FORM EF3

8/7/03 1:24:00 PM \\GDOT-DSN1\GOPLOT\OCF\go_Tiff_Output.ocf darbyd M:\David\send to website\tempforchangetotif\9031l2.prf GO-RD6

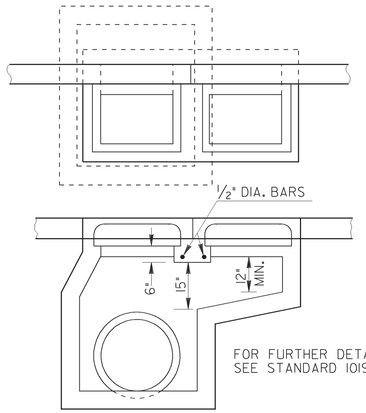
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

DETAIL OF CATCH BASIN MODIFIED FOR DOUBLE GRATES



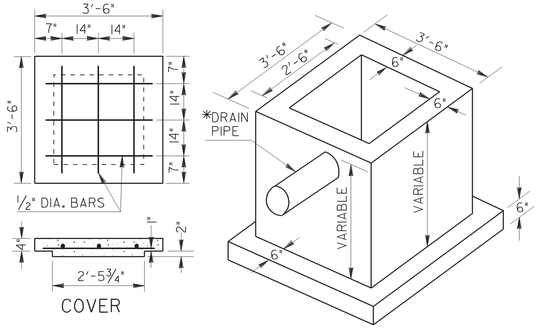
FOR FURTHER DETAILS SEE STANDARD 1010 & 1013

DETAIL OF DROP INLET MODIFIED FOR DOUBLE GRATES



FOR FURTHER DETAILS SEE STANDARD 1019A

DETAIL OF CONCRETE SPRING BOX



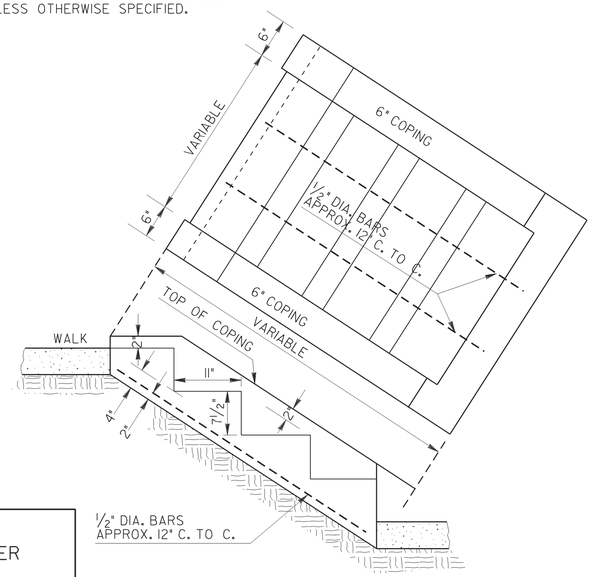
COVER

NOTE: SPRING BOX TO BE CONSTRUCTED OF CLASS "A" CONCRETE.

*DRAIN PIPE SHALL BE 6" PERFORATED UNDERDRAIN PIPE, EXCEPT WHERE OTHERWISE SPECIFIED. (2" GALV. PIPE USED ONLY IN SPECIAL CASES.) PAYMENT FOR SPRING BOX INCLUDES 1'-6" MIN. LENGTH OF DRAIN PIPE. ANY ADDITIONAL PIPE REQUIRED SHALL BE PAID FOR SEPARATELY.

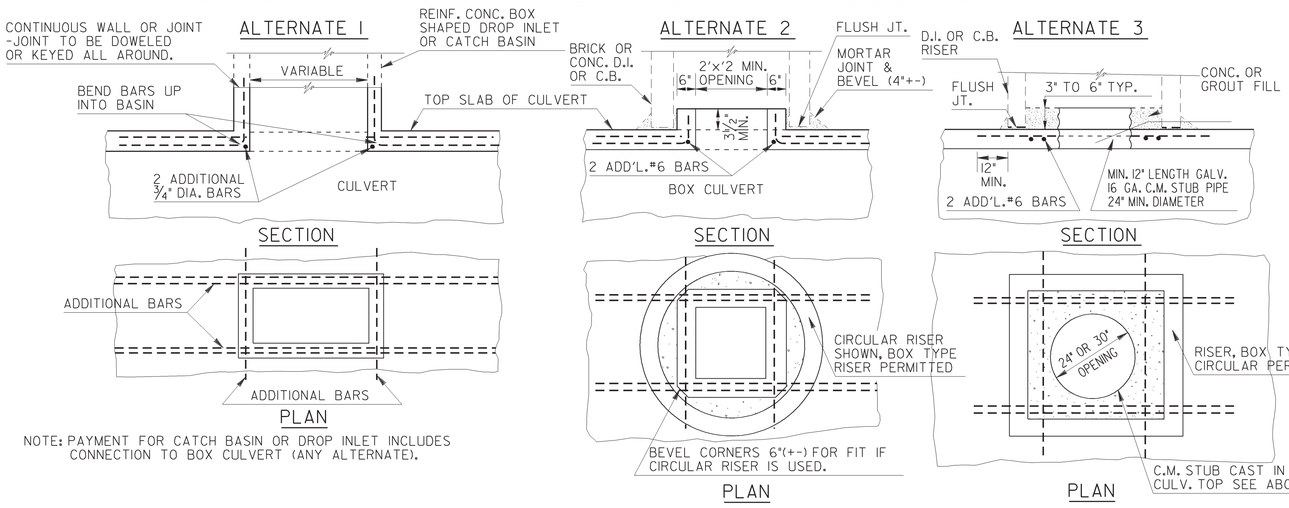
DETAIL OF CONCRETE STEPS

NOTE:
BASIS OF PAYMENT SHALL BE CLASS "B" CONC. INCL. REINF. STEEL UNLESS OTHERWISE SPECIFIED.



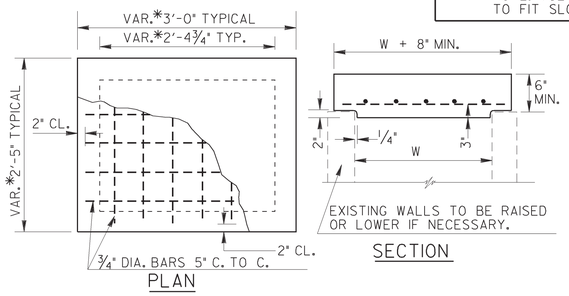
NOTE: RISE AND TREAD ARE TO BE ADJUSTED TO FIT SLOPE. RISE NOT TO EXCEED 8".

DETAILS OF CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT



NOTE: PAYMENT FOR CATCH BASIN OR DROP INLET INCLUDES CONNECTION TO BOX CULVERT (ANY ALTERNATE).

DETAILS FOR CAPPING EXISTING DROP INLET WITH CONCRETE COVER



NOTE:
CONCRETE COVER SHOWN IS FOR USE IN CAPPING MINOR STRUCTURE WHERE CONVERSION FROM DROP INLET TO JUNCTION BOX IS DESIRED, SEE STD. 1011A REINFORCED CONCRETE COVER FOR CONVERSION TO MANHOLE.

*DIMENSIONS INDICATED ABOVE ARE TYPICAL FOR APPLICATION WITH STD. 1019A DROP INLET AND WILL VARY ACCORDING TO STRUCTURE; HOWEVER, NO INSIDE DIMENSION SHOULD EXCEED 4'-0" WITHOUT STRUCTURAL REVIEW. INLET DIMENSIONS SHOULD BE DETERMINED PRIOR TO CASTING CONC. COVER.

NOTE: IF STRUCTURE IS TO BE UNDER TRAFFIC AND DOES NOT HAVE ONE FT. MIN. CLEARANCE TO SUBBASE, THE SLAB THICKNESS SHALL BE INCREASED BY 4" AND THE REBARS SIZE INCREASES FROM 3/4" DIA. TO 1" DIA.

BY	REVISION	DATE
G.J.P.	REDRAWN	6-30-98
R.M.U.	RET. WALL "H" TABLE ADDED	4-30-84
R.M.U.	ADD PIPE PLUG DETAILS	2-15-83

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

DETAILS OF: CATCH BASIN MODIFIED FOR DOUBLE GRATE, DROP INLET MODIFIED FOR DOUBLE GRATE, CONCRETE SPRING BOX, CONCRETE STEPS, CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT CAPPING EXISTING DROP INLET

NO SCALE: REV. & REDR. DECEMBER, 1982

REV. & REDR. R.M.U. (SUBMITTED)
STATE ROAD & AIRPORT DESIGN ENGR.
TRA. G.M.E.
CHK. R.K.C. (APPROVED)
CHIEF ENGINEER

NUMBER 9031L

SHEET 2 OF 2

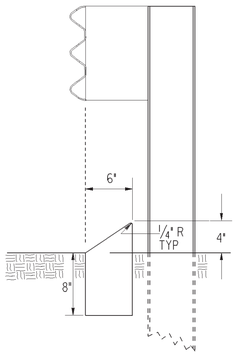
8/7/03 1:24:00 PM \\GDOT-DSN1\GOPLOT\OCF\go_Tiff_Output.ocf darbyd M:\David\send to website\tempforchangetotif\9031l2.prf

12/12/2011 9:04:54 AM \\GDOT-DSNI\GOPLOT\QCF\GO_K1p8000.qcf tcox M:\TPC\9032B\Approved_9032B.pdf GO-RD6

11/17/2011 8:14:31 AM \\GDOT-DSNI\GOPLOT\QCF\GO_K1p8000.qcf tcox M:\GARY\revised 9032B\9032B.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

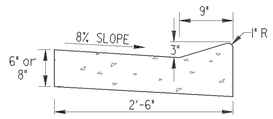
FACE OF CURB MUST ALIGN
WITH BACK EDGE OF GUARDRAIL
AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

RAISED EDGE WITH CONCRETE GUTTER



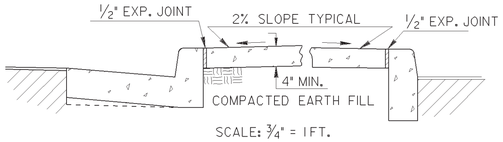
SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL.
OTHER TYPES MAY BE SPECIFIED.



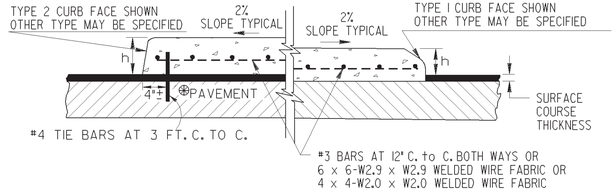
SCALE: 3/4" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE MEDIANS (Integral)

SCALE: 1"=1FT.

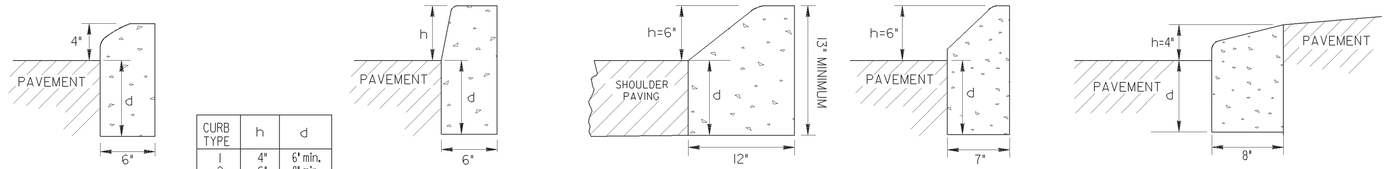
-WITH TIE BARS-



-WITHOUT TIE BARS-

NOTE:
IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

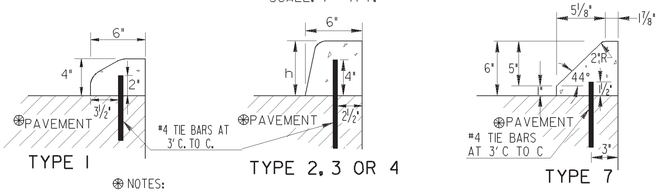
THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

TRUCK APRON IN ROUNDABOUTS

SCALE: 1 1/2" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7

⊕ NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.

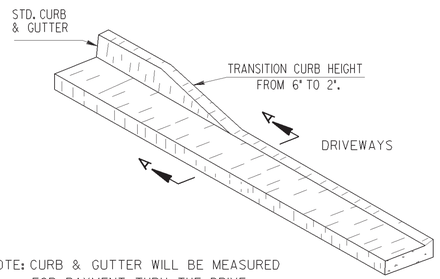
MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE

PICTORIAL VIEW

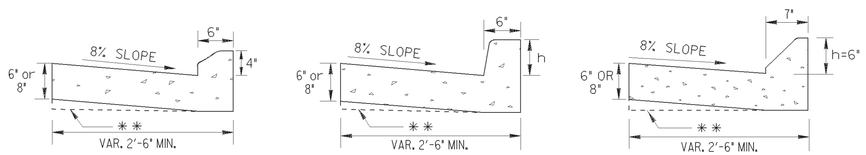


NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE

SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

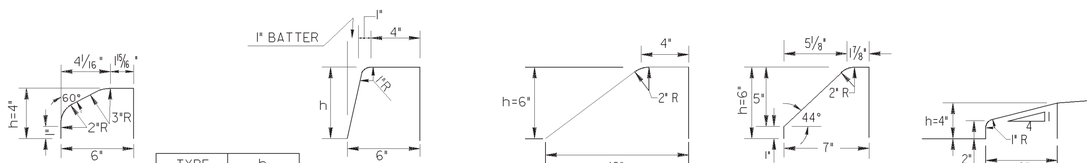


SCALE: 1"= 1FT.

TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7

**AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN

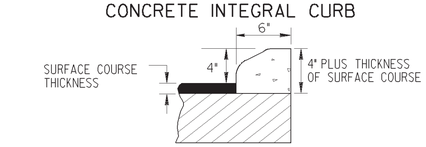


TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

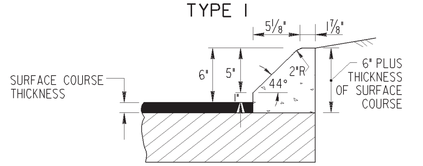
TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2"=1FT.

CONCRETE INTEGRAL CURB



TYPE 1



TYPE 7

SCALE: 1 1/2" = 1FT.

REVISION	DATE	BY
REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	11-15-11	TC
REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	1-27-11	GLO
ADDED TYPE 9 DETAIL	3-03	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN REVISED AND REDRAWN OCT. 2011

DES. ____
DRW. ____
TRA. ____
CHK. ____

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9032B

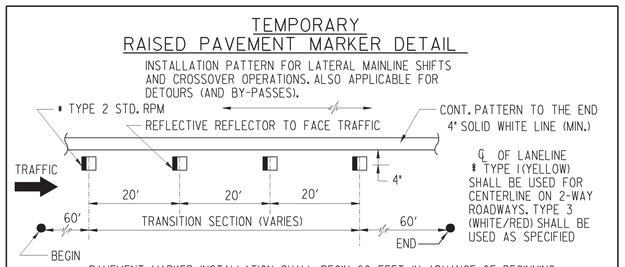
12/12/2011 9:04:54 AM \\GDOT-DSNI\GOPLOT\QCF\GO_K1p8000.qcf tcox M:\TPC\9032B\Approved_9032B.pdf

8/3/2006 11:33:34 AM \\GDOT-DSN1\GOPLOT\QCF\go_tiff_output.qcf gowens M:\GARY\REVISED 9100\9100.prf GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

TEMPORARY RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES, REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER, IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

BY	REVISION	DATE
GLO	REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS. SPEC. BAR. SH. SPEC.	4-24-01
		3-30-06

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

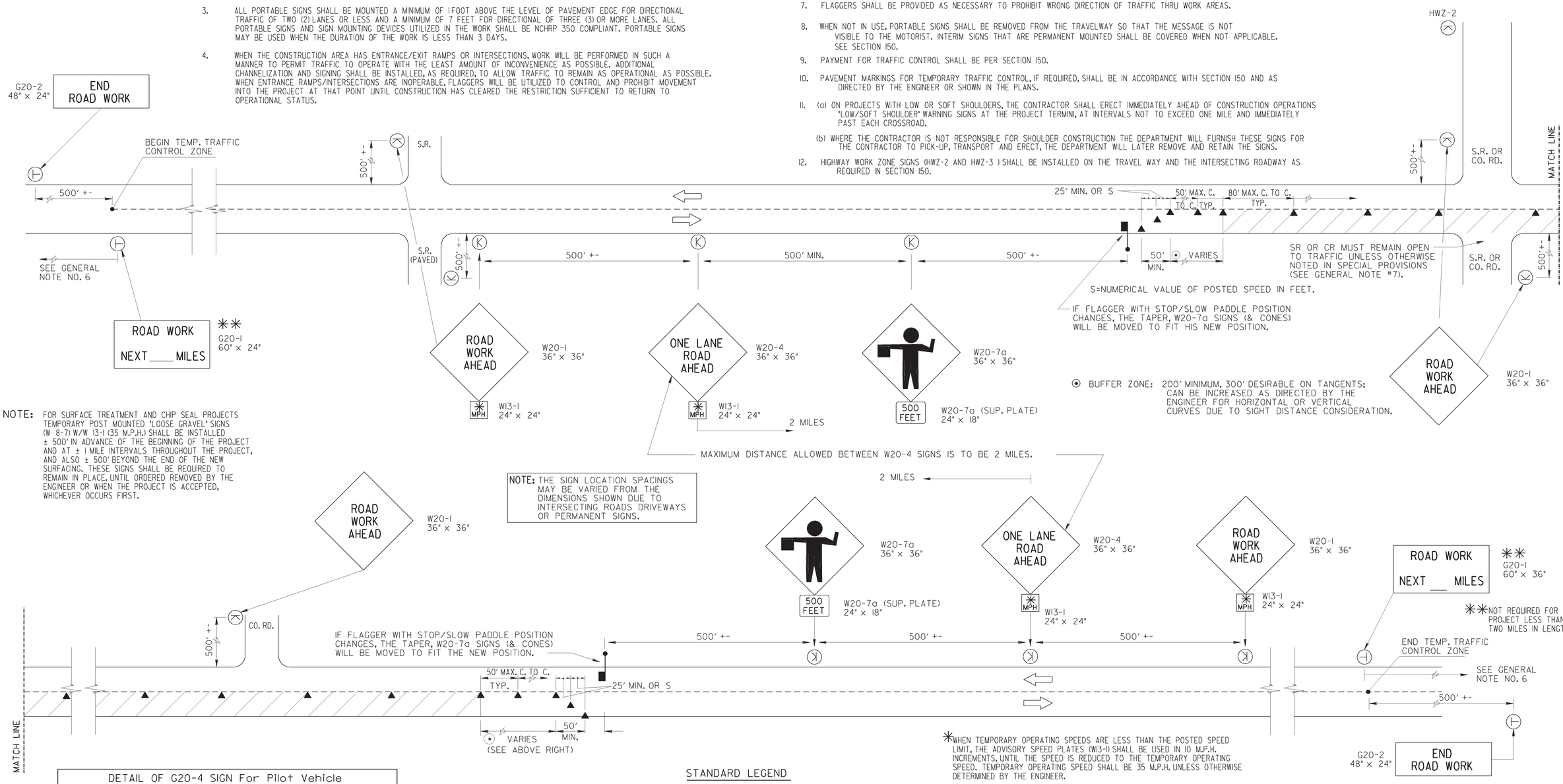
NUMBER 9100

8/3/2006 11:33:34 AM \\GDOT-DSN1\GOPLOT\QCF\go_tiff_output.qcf gowens M:\GARY\REVISED 9100\9100.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0006932		

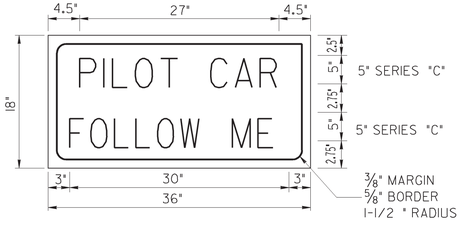
GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
7. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
10. PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
11. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
12. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.



NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED 'LOOSE GRAVEL' SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

DETAIL OF G20-4 SIGN For Pilot Vehicle
IF REQUIRED OR USED ON PROJECT



STANDARD LEGEND

- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- WORK AREA
- TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

BY	REVISION	DATE
GLO	REMOVED FLAGS AND REV. GENERAL NOTES. REV. SIGN G20-2A TO G20-2.	3-30-06

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL
FOR LANE CLOSURE ON TWO-LANE HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

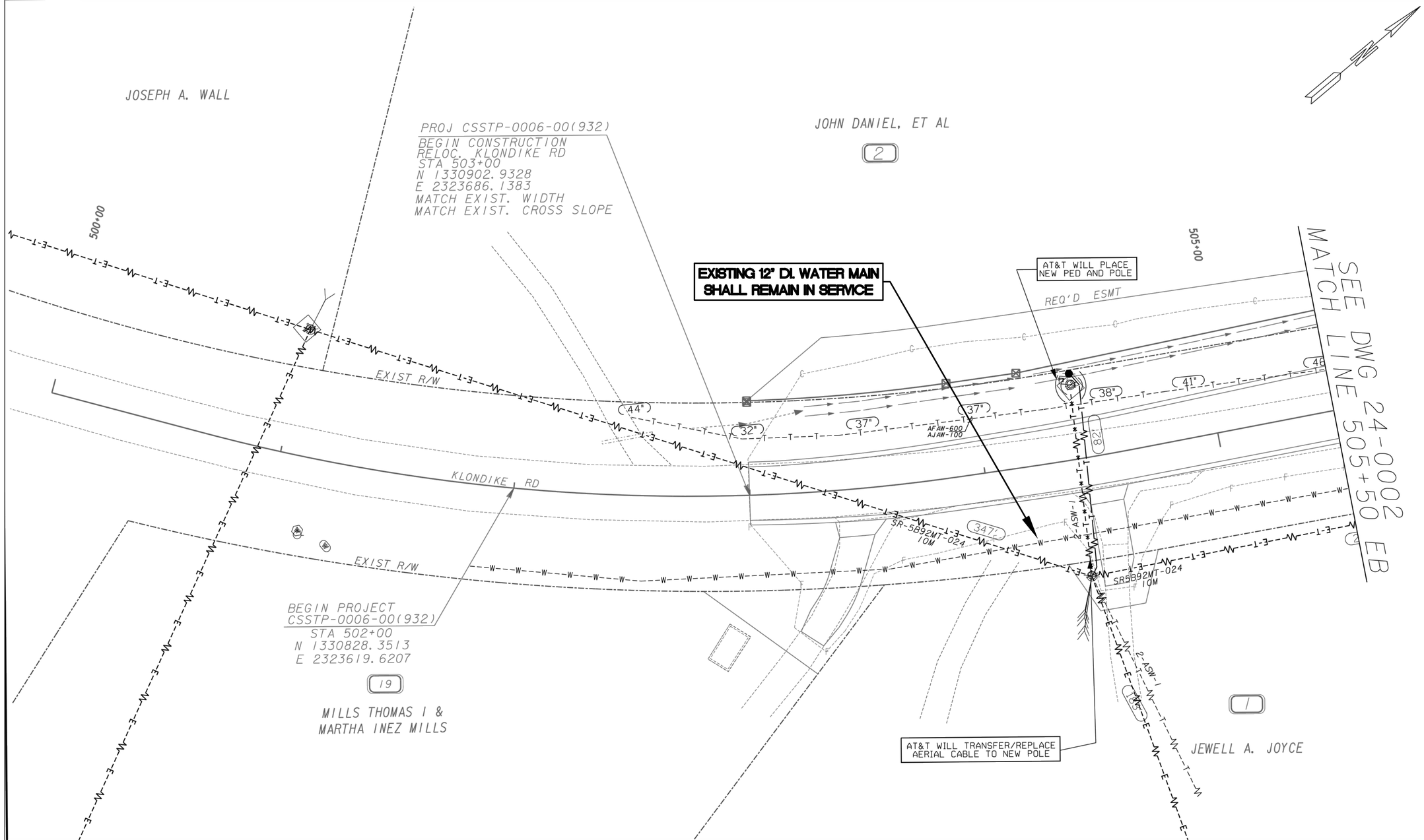
DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9102

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

David J. Cervone

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

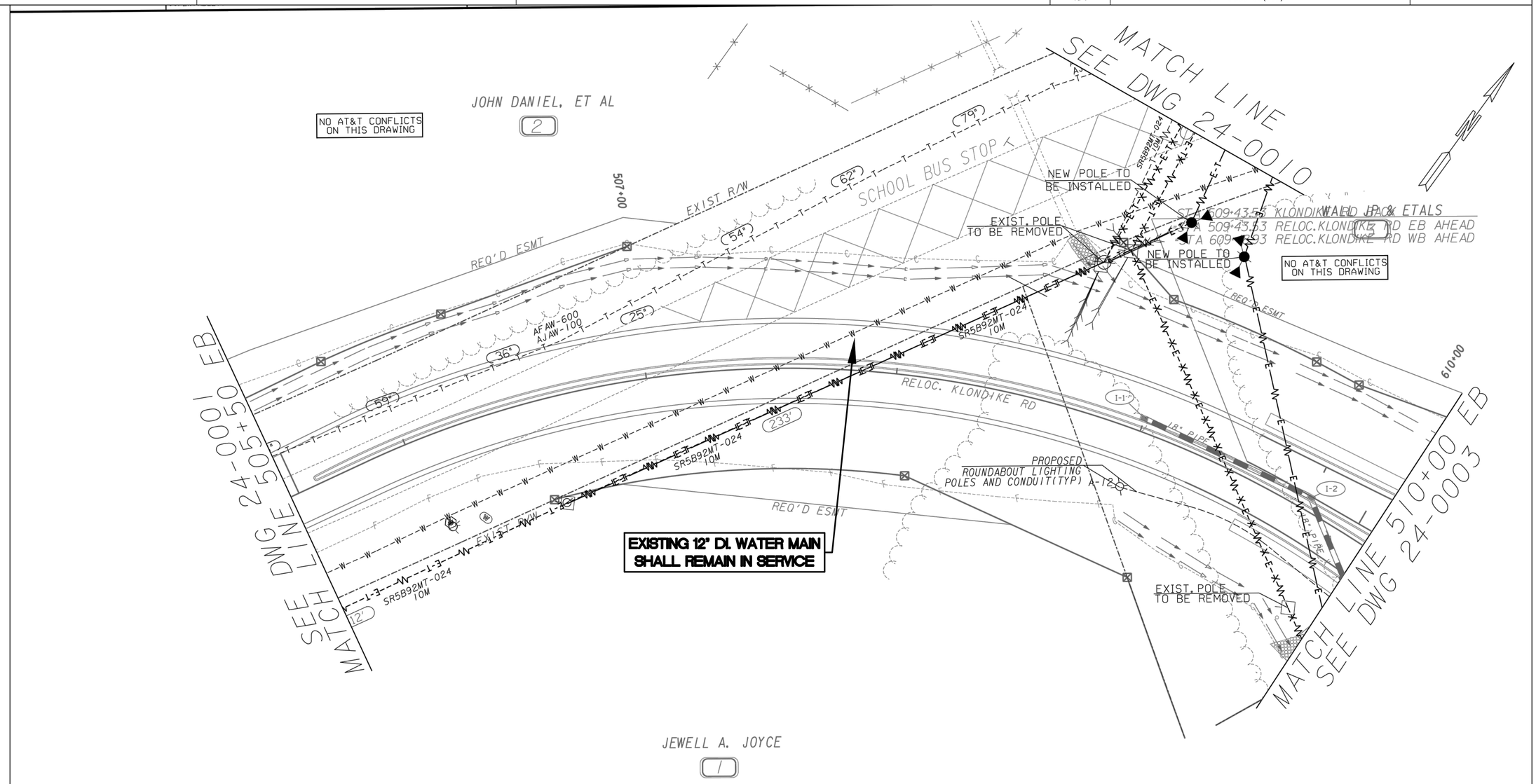
DRAWING No. 44-0001

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

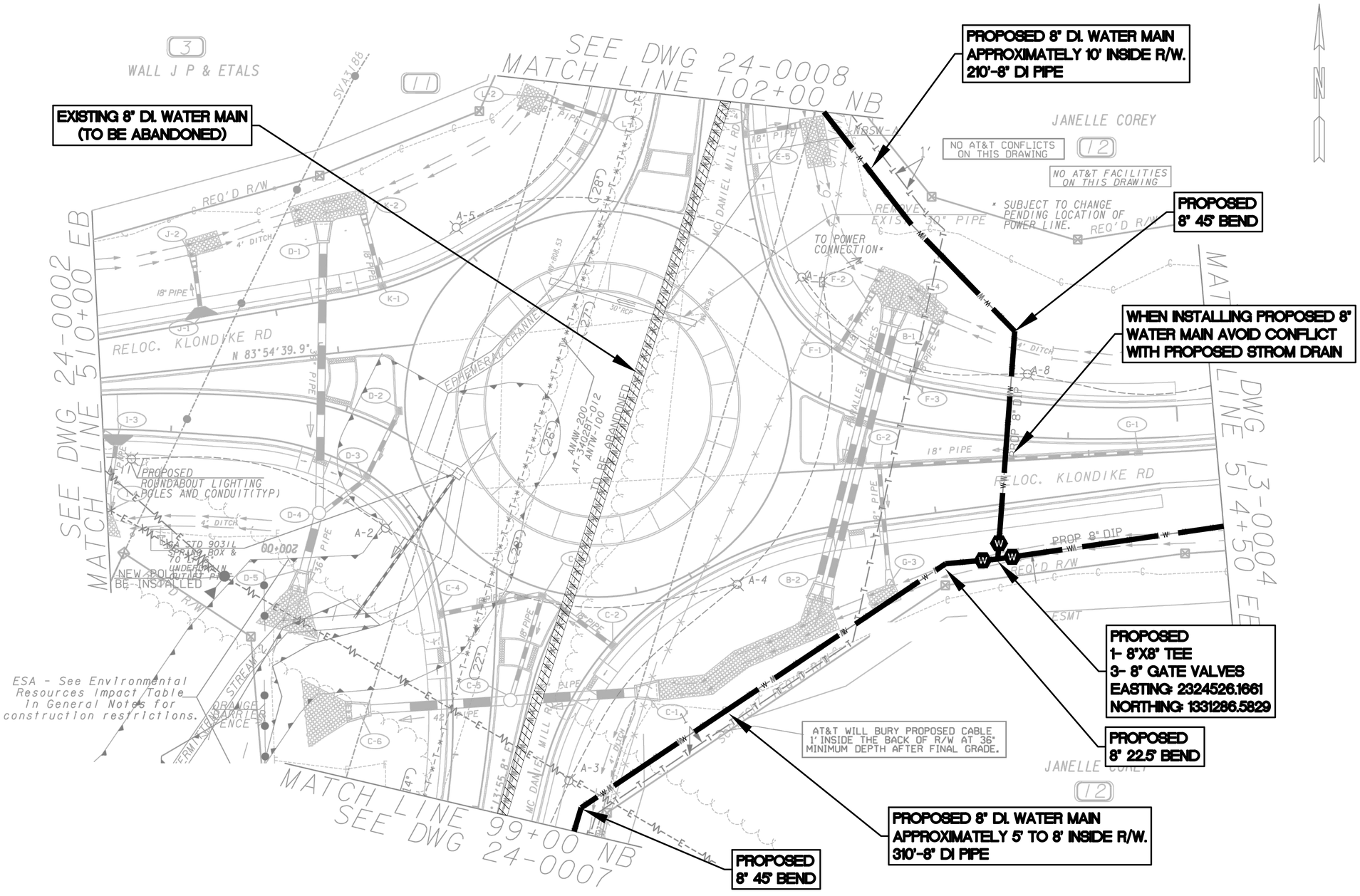
WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0002

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
10/12/2017
006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED
No. 30963
PROFESSIONAL
ENGINEER
DAVID J. CERVONE

David J. Cervone

GEORGIA 811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

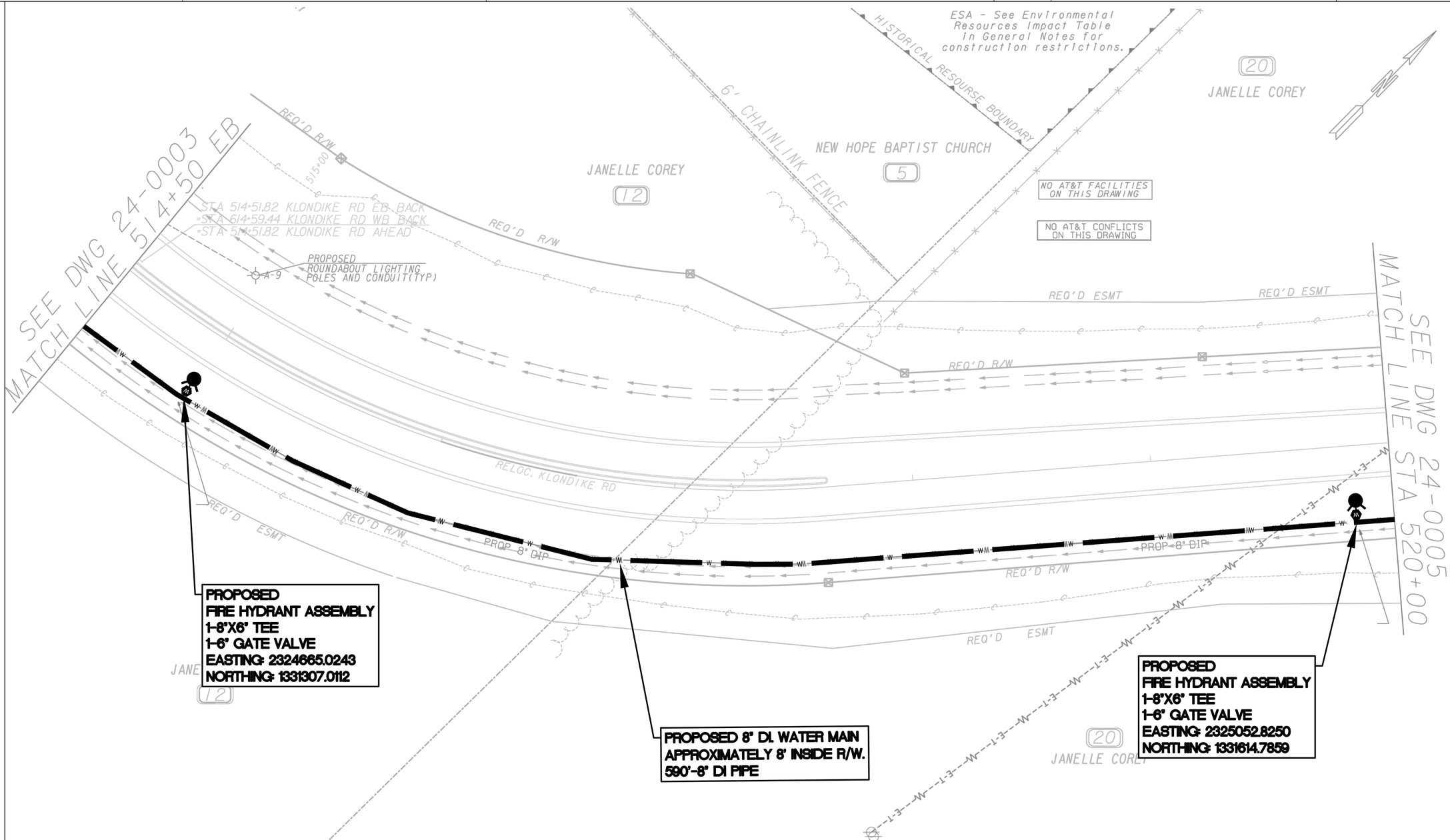
WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
44-0003

I:\1_Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
10/12/2017
006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

David J. Cervone

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

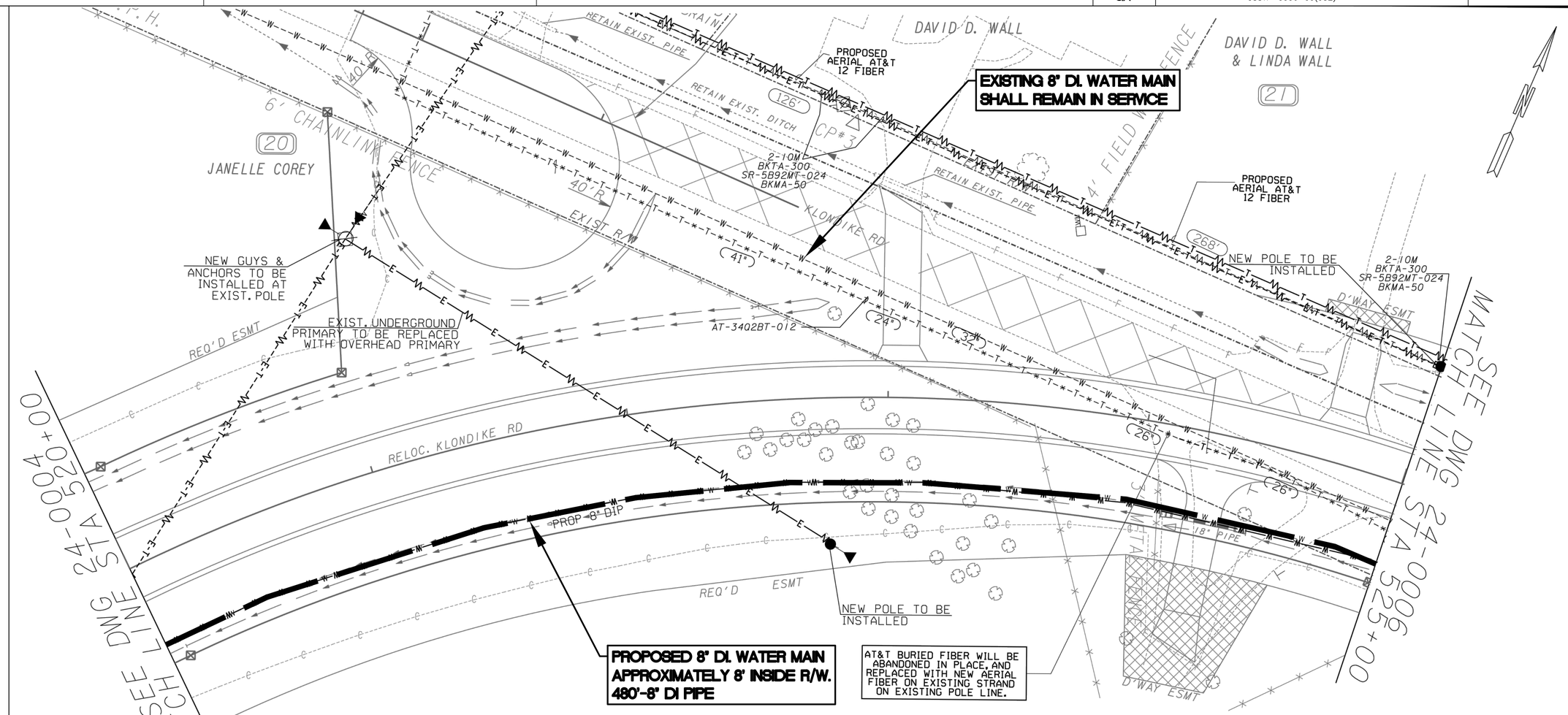
DRAWING No. 44-0004

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



20
JANELLE COREY

ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/ HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0005

I:\1_Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
10/12/2017
006932UTLP-20171115.dwg

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)

21
DAVID D. WALL
& LINDA WALL

22
BRUCE ELIZABETH M

23
WADE BRADFORD

WADE BRADFORD

N

END PROJECT
CSSTP-0006-00(932)
STA 529+00
N 1331870.9239
E 2325871.9928

530+00

EXISTING 8" DI. WATER MAIN SHALL REMAIN IN SERVICE

EXIST POLE & ANCHOR TO BE REMOVED

2-10M
BKTA-300
SR-5B92MT-024
BKMA-50

PROPOSED AERIAL AT&T 12 FIBER

2-10M
BKTA-300
SR-5B92MT-024
BKMA-50

CHAINLINK FENCE

THE EXACT SPLICE LOCATION FOR THE PROPOSED FIBER WILL BE DETERMINED ON THE DESIGN PORTION OF THIS ROAD MOVE

340'

300'

EXIST R/W

LAND LOT 206
LAND LOT 207

KLONDIKE RD

SEE DWG 24-0005
MATCH LINE STA 525+00

(35") (24") (24") (19") (29") (22") (26")

PROP 8" DIP

AT-3402BT-012

AT-3402BT-012

6' CHAINLINK FENCE

EXIST R/W

GATE

FH

AT&T BURIED FIBER WILL BE ABANDONED IN PLACE, AND REPLACED WITH NEW AERIAL FIBER ON EXISTING STRAND ON EXISTING POLE LINE.

PROJ CSSTP-0006-00(932)
END CONSTRUCTION
RELOC. KLONDIKE RD
STA 527+70
N 1331872.1454
E 2325741.9985
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE

AUTOMATIC GATE

PROPOSED 8" DI. WATER MAIN APPROXIMATELY 8' INSIDE R/W. 130'-8" DI PIPE

PROPOSED 8" 90° BEND

PROPOSED 1- 8"X8" TAPPING SLEEVE 1- 8" TAPPING VALVE EASTING: 2325570.2620 NORTHING: 1331855.4464

20
JANELLE COREY

EXISTING 8" DI. WATER MAIN SHALL REMAIN IN SERVICE

ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0006

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
10/12/2017
006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	

LIMIT OF CONSTRUCTION, MC DANIEL MILL RD
STA 94+10
N 1330718.5883
E 2324186.4344
MATCH EXIST. WIDTH
MATCH EXIST. CROSS

EXISTING 8" DI WATER MAIN SHALL REMAIN IN SERVICE

CONNECT INTO EXISTING 8" WATER MAIN:
1- 8" 45° BEND
1- 8" SOLID SLEEVE
EASTING: 2324193.0406
NORTHING: 1330686.7282

JEWELL A. JOYCE
/

EXISTING 8" DI WATER MAIN (TO BE ABANDONED)

START PERENNIAL STREAM 4
WRESTED VEGETATION LINE
INTERMITTENT STREAM 2
WETLAND 3
PERENNIAL STREAM 4
ESA - See Environmental Resources Impact Table in General Notes for construction restrictions.
STA 96+28.56 MC DANIEL MILL RD BACK
=STA 98+28.56 MC DANIEL MILL RD NB AHEAD
=STA 198+28.63 MC DANIEL MILL RD SB AHEAD
EXIST R/W
ORANGE BARRIER FENCE
ANAW-200
AT-3402BT-012
ANTW-100
19" 23" 22" 23" 20" 22" 15" 18" 16" 18"
H-1 H-2 H-3 H-4
18" PIPE
AT&T BORE WILL BE AT 48" MINIMUM DEPTH
TO BE ABANDONED
MC DANIEL MILL RD
PROPOSED ROUNDABOUT LIGHTING POLES AND CONDUIT(TYP)
PROP 8" DIP
A-7
600' +/-
EXIST R/W
REQ'D ESMT
1'
AT&T WILL BURY PROPOSED CABLE 1' INSIDE THE BACK OF R/W AT 36" MINIMUM DEPTH AFTER FINAL GRADE.
AT&T WILL BURY PROPOSED CABLE 1' INSIDE THE BACK OF R/W AT 36" MINIMUM DEPTH AFTER FINAL GRADE.
PROPOSED 8" 45° BEND
PROPOSED 8" DI WATER MAIN 550'-8" DI PIPE
PROPOSED FIRE HYDRANT ASSEMBLY 1-8"X6" TEE 1-6" GATE VALVE EASTING: 2324296.3476 NORTHING: 1330966.0032
EXISTING IN-LINE 8" GATE VALVE
JANELLE COREY
12
SEE DWG 24-0003 MATCH LINE 99+00 NB

ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

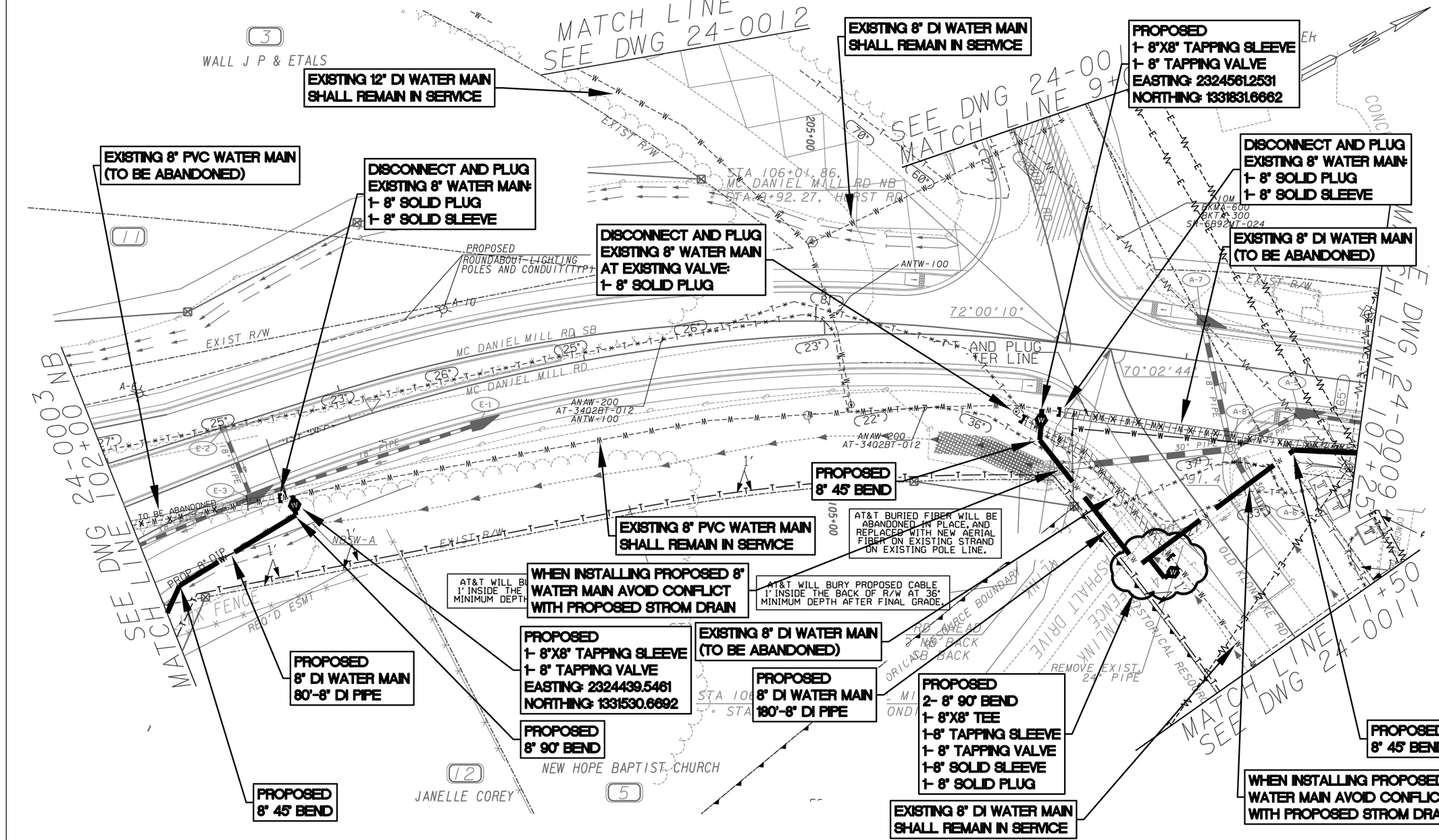
WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0007

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
10/12/2017
006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0008

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	

ANTHONY K. TURNER & & DELOIS H. TURNER

ANTHONY TURNER

PHILLIP D OGLESBY & LINDA A OGLESBY

LIMIT OF CONSTRUCTION, MC DANIEL MILL RD
STA 109+45
N 1332123.7874
E 2324734.1833
MATCH EXIST. WIDTH
MATCH EXIST. CROSS SLOPE

RECONNECT WATER SERVICE:
1- 5/8" METERS
60'-3/4" COPPER SERVICE PIPE

EXISTING 6" PVC WATER MAIN (TO BE ABANDONED)

EXISTING 8" DI WATER MAIN (TO BE ABANDONED)

CONNECT INTO EXISTING 6" WATER MAIN:
1- 6" 90° BEND
1- 6" SOLID SLEEVE
1- 6" TRANSITION COUPLING
20'-6" DI PIPE
EASTING: 2324764.7006
NORTHING: 1332130.4176

EXISTING 6" PVC WATER MAIN SHALL REMAIN IN SERVICE

NO AT&T CONFLICTS ON THIS DRAWING

SEE DWG 24-0008
MATCH LINE 107+25

110.00

EXIST R/W

4' FIELD WIRE FENCE

18" PIPE

2-ASW-1

N 35°11'57.5" E
MC DANIEL MILL RD

N 35°57'22.7" E

75'

18" CMP

18" CMP

TO BE ABANDONED

171

134

EXIST R/W

EXIST R/W

BKMA-200
10M

AT&T EASEMENT NOT IN CONFLICT

D'WAY ESMT

D'WAY ESMT

BKMA-200
10M

PROPOSED 1- 6" INSERTION VALVE

PROPOSED 8" 90° BEND

PROPOSED 2- 8" 45° BEND

'NE HENDRY & D.W. HENDRY JR.

NUNEZ MIGUEL

FIRST PROPERTIES TRUST, M.J. JAMES AS TRUSTEE

WILLIAM HENRY HAMRICK

NANCY S. GEOUGE

PROPOSED 8" DI WATER MAIN
240'-8" DI PIPE

RECONNECT WATER SERVICES:
2- 5/8" METERS

1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

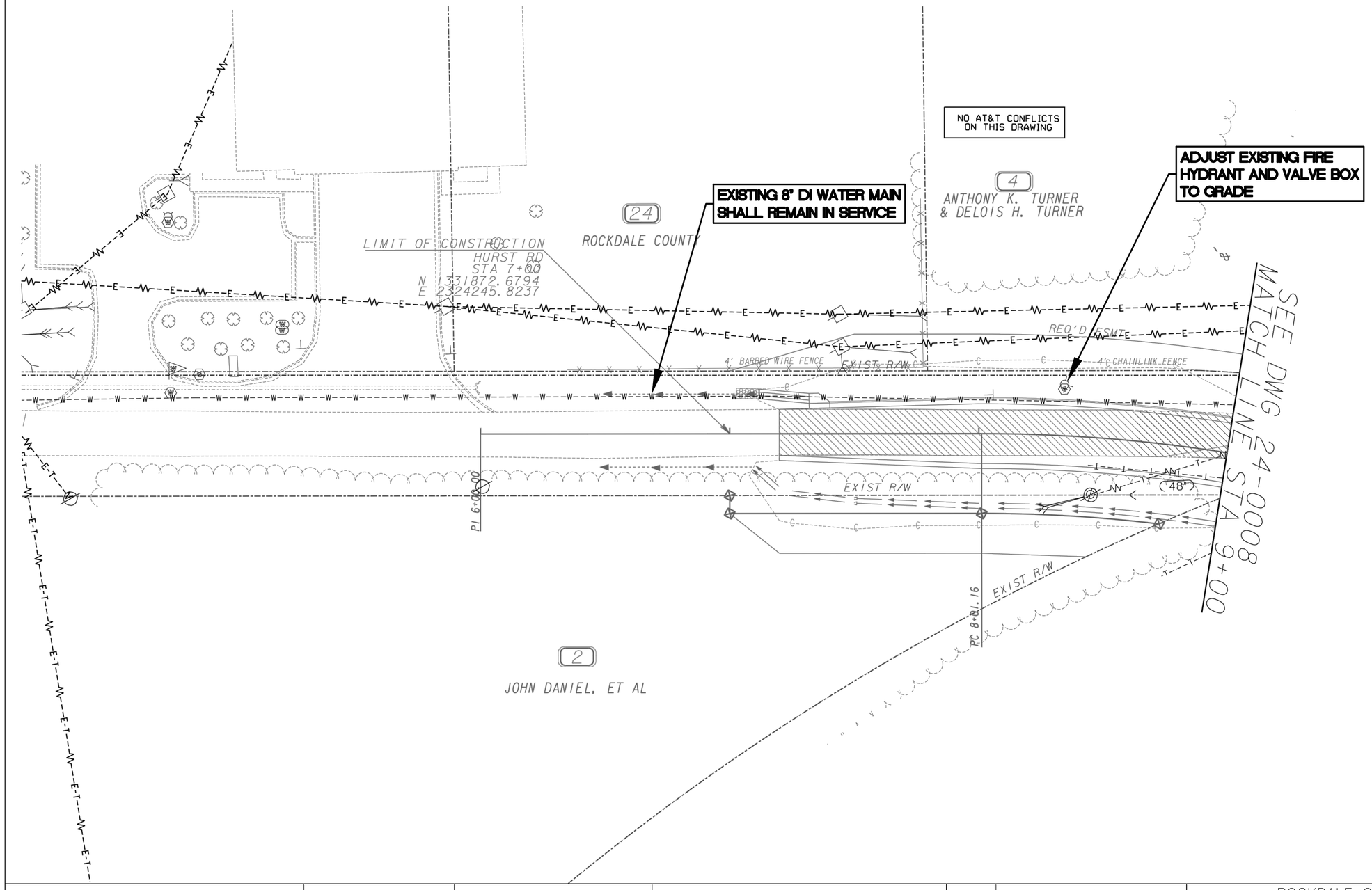
DRAWING No. 44-0009

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

				STATE	PROJECT NUMBER
				GA	CSSTP-0006-00(932)



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

David J. Cervone

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

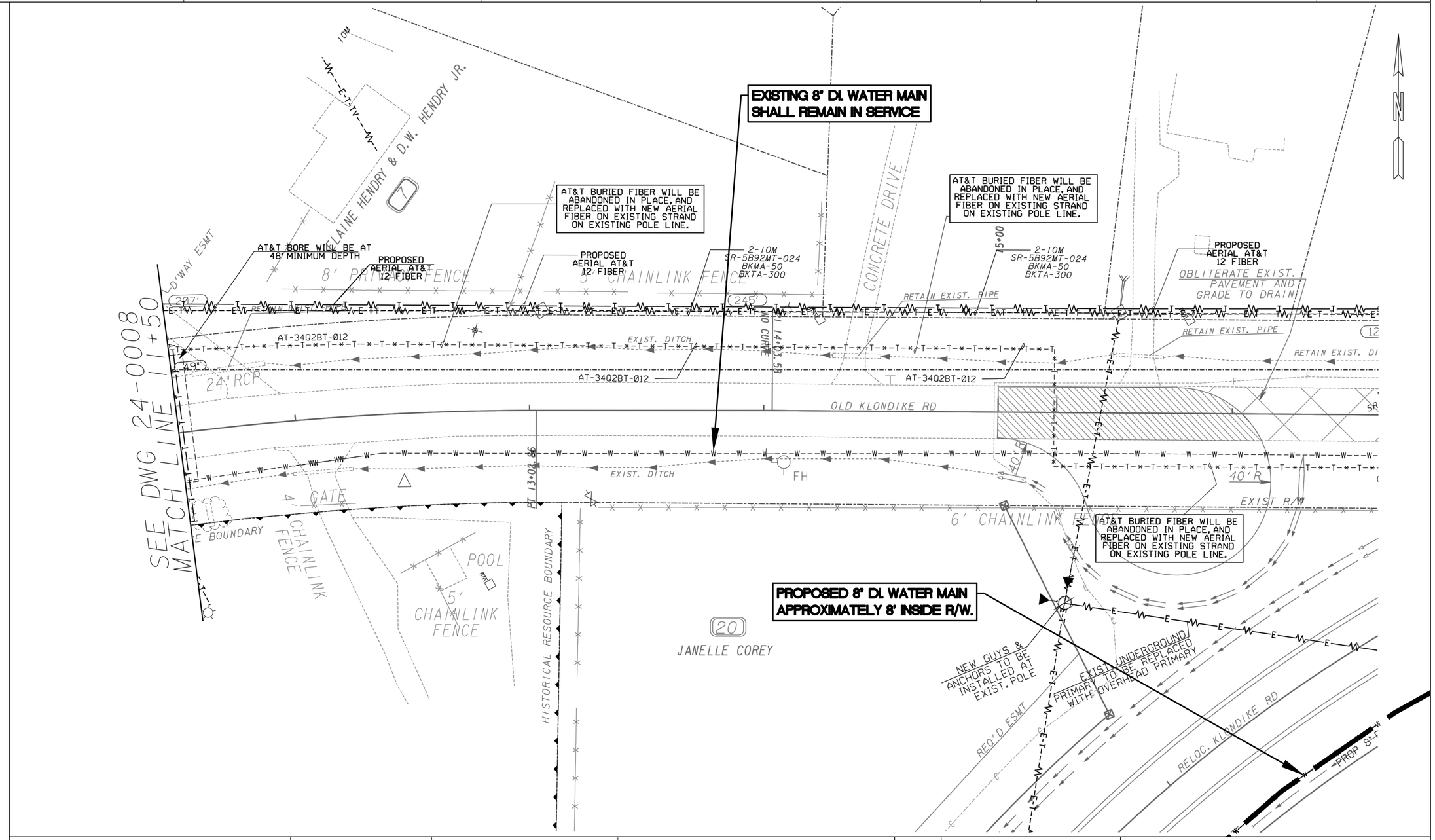
WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0010

I:\1. Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg 10/12/2017 006932UTLP-20171115.dwg

STATE	PROJECT NUMBER
GA	CSSTP-0006-00(932)



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

David J. Cervone

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

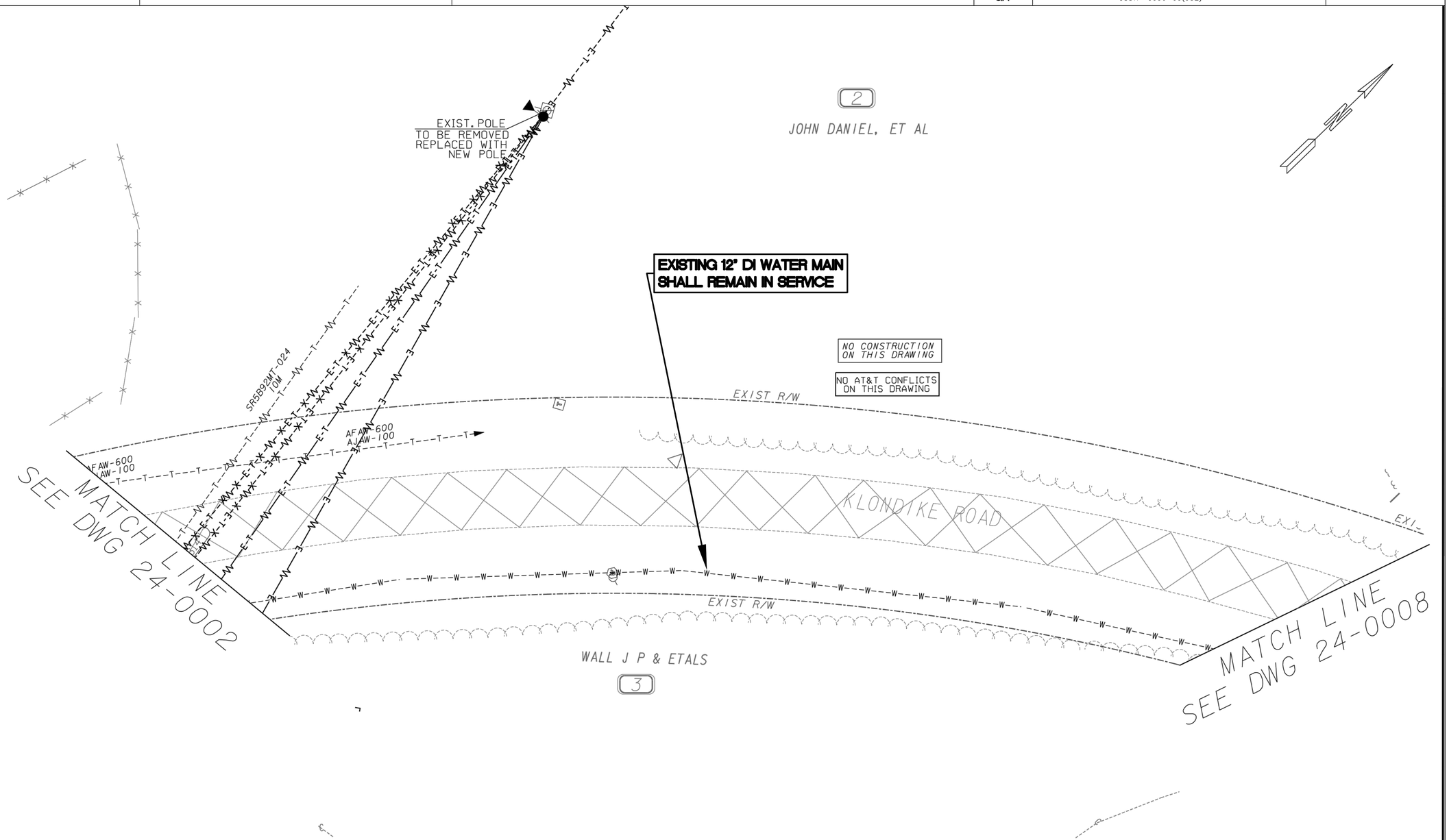
DRAWING No. 44-0011

I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

David J. Cervone

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0012

I:\1. Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED TO EXTEND, RELOCATE, OR ABANDON ROCKDALE WATER RESOURCES(RWR) WATER AND SEWER SYSTEM MUST BE MADE OF DUCTILE IRON, AND COMPLY WITH RWR STANDARDS AND SPECIFICATIONS.

2. NOTIFY THE RWR REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.

3. OBTAIN REQUIRED PERMITS AND NECESSARY DISTRICT BUSINESS LICENSE(S) PRIOR TO BEGINNING CONSTRUCTION.

4. DURING CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, OBSERVE, FOLLOW AND IMPLEMENT THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE CLEAN FROM RUBBISH AND DEBRIS. ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR THEIR METHODS AS DIRECTED BY THE RWR'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.

5. KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE RWR. ALSO COORDINATE TRANSFERRING "AS-BUILT" INFORMATION ON THE CONTRACT DRAWINGS AND DELIVER THE CERTIFIED "AS-BUILT" PLANS TO THE DISTRICT BEFORE THE RELEASE FOR FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.

6. EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO COUNTY & CITY STREETS, INCLUDING HAUL ROUTES, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE RWR REPRESENTATIVE.

7. DESIGNATE AND KEEP ON THE PROJECT WHILE WORK IS BEING PERFORMED A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT A WRITTEN NOTICE TO THE RWR'S REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, MAKE APPROPRIATE ARRANGEMENTS FOR EMERGENCY WORK WHICH WILL BE REQUIRED.

8. WHEN THE WORK ON ANY PORTION OF IT IS SUFFICIENTLY COMPLETE TO BE UTILIZED OR PLACED INTO SERVICE, RWR SHALL HAVE THE RIGHT UPON WRITTEN NOTIFICATION TO THE CONTRACTOR TO UTILIZE SUCH PORTIONS OF THE WORK AND TO PLACE THE OPERABLE PORTIONS INTO SERVICE AND TO OPERATE SAME. UPON SAID NOTICE AND COMMENCEMENT OF UTILIZATION OR OPERATION BY THE RWR, THE CONTRACTOR SHALL BE RELIEVED OF THE DUTY OF MAINTAINING THE PORTIONS SO UTILIZED OR PLACED INTO OPERATION; PROVIDED, HOWEVER, THAT NOTHING IN THIS NOTE SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR COMPLETING THE WORK IN ITS ENTIRETY, FOR MAKING GOOD DEFECTIVE WORK AND MATERIALS, FOR PROTECTING THE WORK FROM DAMAGE, AND FOR BEING RESPONSIBLE FOR DAMAGE.

9. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK; AND FULLY COMPLY WITH STATE/FEDERAL AND OTHER LAWS, RULES, REGULATIONS, AND ORDER RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS INCLUDES THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.

10. UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY RWR OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. NOTIFY RWR OF THE UTILITIES CONCERNED BEFORE STARTING WORK.

11. TYPICAL DETAILS APPLY WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED ON INDIVIDUAL PLANS, DETAILS OR SECTIONS.

12. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICT BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO RWR REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.

13. NO SMOKING IS ALLOWED WITHIN THE JOBSITE OR SITE ACCESS AREAS, A FIRE SPOTTER, FIRE EXTINGUISHER, ADEQUATE WATER SUPPLY AND SHOVELS SHALL BE AVAILABLE AND WITHIN REACH AT ALL TIMES DURING ANY WELDING OR TORCH WORK. THIS JOBSITE IS IN AN EXTREMELY HAZARDOUS FIRE AREA.

14. VIDEO RECORD AND DOCUMENT THE EXISTING CONDITION OF THE PROJECT LIMITS AND SUBMIT THE RECORDING AND DOCUMENT TO THE RWR PRIOR TO THE START OF CONSTRUCTION.

15. CONDUCT OPERATIONS TO RESULT IN THE LEAST POSSIBLE OBSTRUCTION INCONVENIENCE TO THE PUBLIC, AND HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAT CAN BE PERFORMED PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC OR AS STATED IN THE PERMITS. CONVIENT ACCESS TO DRIVEWAYS, HOUSES AND BUILDINGS ALONG THE WORK SHALL BE MAINTAINED.

PIPELINE CONSTRUCTION NOTES:

1. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

2. OPEN TRENCHES IN EXISTING ASPHALT SHALL BE PLATED OVERNIGHT WITH NON SKID STEEL PLATES.

3. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER, WHO WILL DETERMINE THE INTENT OF THE DESIGN.

4. FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION, DIAMETER, AND ORIENTATION AT ALL CONNECTION POINTS AND COORDINATE WITH RWR PRIOR TO CONSTRUCTION. PROVIDE ALL PIPE MATERIALS AND FITTINGS, AS REQUIRED TO MEET EXISTING FIELD CONDITIONS FOR A COMPLETE INSTALLATION.

5. REPAIR DAMAGE TO LANDSCAPING, PAVING, UTILITIES, CURBS, GUTTERS, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.

6. PAVEMENT CUTS SHALL BE PERFORMED BY SAW CUTTING OR GRINDING. RECUT PAVEMENT PRIOR TO REPAVING WHERE UNDERMINING HAS OCCURRED.

7. SCHEDULE WITH RWR LOCAL WATER SERVICE SHUTDOWNS NOT LESS THAN TWO WEEKS IN ADVANCE. SERVICE SHALL NOT BE INHIBITED FOR MORE THAN 6 HOURS. ONLY TWO (2) SHUTDOWNS WILL BE ALLOWED UNDER THIS CONTRACT FOR THE LOCAL WATER SERVICE. WORK INVOLVING CONNECTION TO THE 48" LINE SHALL BE SCHEDULED WITH RWR AND OCCUR DURING A COORDINATED SHUT DOWN OF THE GEES MILL WTP.

8. MAINTAIN 36" MINIMUM PIPELINE COVER PER RWR UNLESS OTHERWISE SHOWN ON THE PLANS OR UNLESS REDUCED DEPTH IS SPECIFICALLY APPROVED BY THE ENGINEER.

9. REMOVAL AND REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

10. TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH PLANS AND SPECIFICATION SECTION 02200

11. RESTRAINED JOINTS SHALL BE PROVIDED FOR BURIED PIPING AS INDICATED ON THE DRAWINGS OR AS SCHEDULED IN THE SPECIFICATIONS.

12. ALL VALVE BOXES SHALL BE SET TO FINISH GRADE.

13. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS.

14. DELETERIOUS MATERIALS AND EXCAVATED MATERIALS NOT USED IN BACKFILL OR GRADING SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.

15. CONCRETE TRUCKS SHALL BE CLEANED IN DESIGNATED AREAS WITH WATER PROOF LINING IN COMPLIANCE WITH THE SWPPP AND OTHER PERMITS. ALL WASTE AND MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.

16. PRESSURE TEST WATER LINES AFTER ALL UTILITIES ARE INSTALLED AND BACKFILL IS ACCEPTED. PRESSURE TEST SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02676

17. DISINFECTION OF WATER LINES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02675

18. ALL NEW WATER PIPES SHALL BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.

GENERAL PIPING AND UTILITIES NOTES:

1. ELEVATION ADJUSTMENTS AT CONNECTIONS MAY BE MADE WITH BENDS, OFFSETS OR JOINT DEFLECTIONS. JOINT DEFLECTIONS SHALL NOT EXCEED 75% MANUFACTURER'S RECOMMENDED DEFLECTION PER JOINT

2. FIELD VERIFY DEPTH AND LOCATION OF UTILITIES PRIOR TO EXCAVATION.

3. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.

4. PROVIDE AND MAINTAIN ON THE WORK SITE SUITABLE SANITATION FACILITIES AND MAKE SAID FACILITIES READILY ACCESSIBLE TO THE WORKERS, THE OWNER AND THE OWNER'S REPRESENTATIVE AT ALL TIMES WHILE WORK IS IN PROGRESS.

5. MAKE ARRANGEMENTS FOR EQUIPMENT, MATERIAL STORAGE & YARD SECURITY.

6. EMERGENCY SERVICES (POLICE, FIRE, AMBULANCE) SHALL BE ALERTED 48 HOURS IN ADVANCE OF PERFORMING SHUTDOWN.

ESTIMATED LIST OF MATERIALS

FOR INFORMATION ONLY – SEE QUANTITY SHEET

GDOT ITEM CODE	GDOT ITEM DESCRIPTION	QUANTITY	UNIT
670-1080	WATER MAIN, 8 IN	2780	LF
670-1060	WATER MAIN, 6 IN	20	LF
670-4000	FIRE HYDRANT ASSEMBLY WITH VALVE	3	EA
670-2080	GATE VALVE, 8 IN	3	EA
670-3087	TAPPING SLEEVE & VALVE ASSEMBLY, 8IN X 8IN	4	EA
670-7215	INSERTION VALVE, 6 IN	1	EA
670-9710	RELOCATE EXIST FIRE HYDRANT	1	EA
670-1600	CUT AND PLUG EXISTING WATER MAIN	4	EA
670-4510	CONCRETE THRUST COLLAR, 8 IN PIPE	5	EA
670-2002	VALVE MARKERS	9	EA
670-0800	WATER METER	3	EA
670-5000	WATER SERVICE LINE	80	LF
670-9450	ROCK EXCAVATION	900	CY
171-0030	TEMPORARY SILT FENCE, TYPE C	2700	LF
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	1350	LF
163-0240	MULCH	2	TN
163-0232	TEMPORARY GRASSING	0.40	AC

SEE DRAWING 6-0001 FOR SUMMARY OF QUANTITIES

1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

ROCKDALE WATER RESOURCES

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CERVONE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY

DEPARTMENT OF TRANSPORTATION

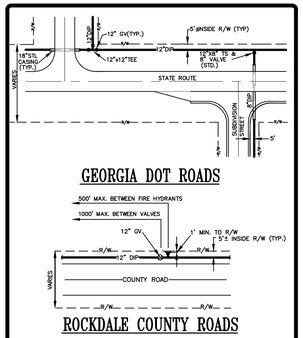
WATER RELOCATION PLAN NOTES

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No. 44-0013

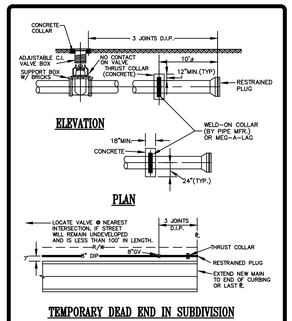
I:\1 Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg
006932UTLP-20171115.dwg
10/12/2017

			STATE	PROJECT NUMBER	
			GA	CSSTP-0006-00(932)	



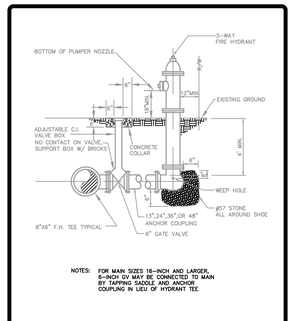
ROCKDALE WATER RESOURCES

WATER MAIN LOCATION
ROADWAYS
NOT TO SCALE
STANDARD DRAWING No. A-4



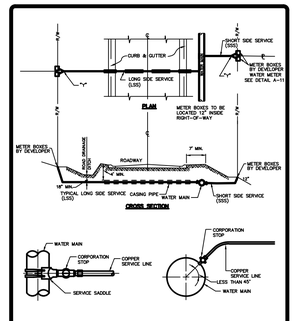
ROCKDALE WATER RESOURCES

VALVE INSTALLATION
NOT TO SCALE
STANDARD DRAWING No. A-5



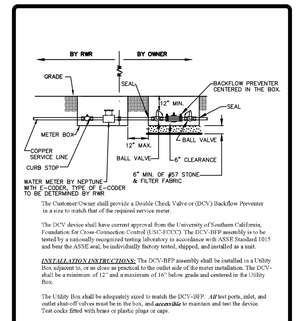
ROCKDALE WATER RESOURCES

FIRE HYDRANT INSTALLATION
ROADS AND HIGHWAYS
NOT TO SCALE
STANDARD DRAWING No. A-7



ROCKDALE WATER RESOURCES

WATER SERVICE LINE
NOT TO SCALE
STANDARD DRAWING No. A-9



The Customer/Owner shall provide a Double Check Valve or (DCV) Backflow Preventer in a size to match that of the required service meter.

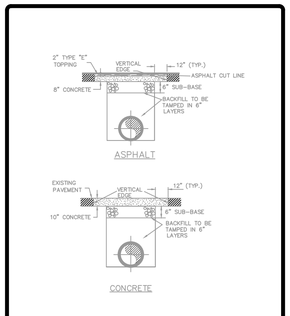
The DCV device shall have current approval from the University of Southern California, Foundation for Cross-Connection Control (USC-FCCC). The DCV-BFP assembly is to be tested by a nationally recognized testing laboratory in accordance with ASSE Standard 1015 and bear the ASSE seal, be individually factory tested, shipped, and installed as a unit.

INSTALLATION INSTRUCTIONS: The DCV-BFP assembly shall be installed in a Utility Box adjacent to, or as close as practical to the outlet side of the meter installation. The DCV-shall be a minimum of 12" and a maximum of 16" below grade and centered in the Utility Box.

The Utility Box shall be adequately sized to match the DCV-BFP. All test ports, inlet, and outlet shut-off valves must be in the box, and accessible to maintain and test the device. Test cocks fitted with brass or plastic plugs or caps.

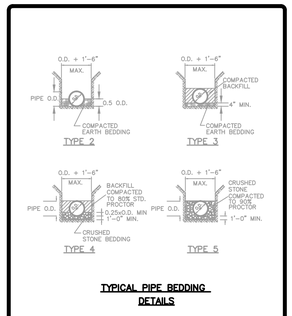
ROCKDALE WATER RESOURCES

COMMERCIAL 5/8 - 2" WATER METER AND BACKFLOW PREVENTION DEVICE
NOT TO SCALE
STANDARD DRAWING No. A-12



ROCKDALE WATER RESOURCES

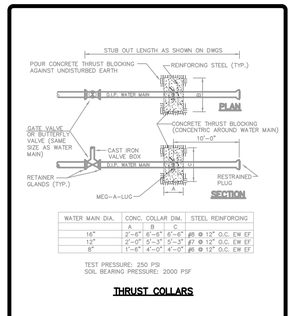
PAVEMENT REPLACEMENT
NOT TO SCALE
STANDARD DRAWING No. A-14



TYPICAL PIPE BEDDING DETAILS

ROCKDALE WATER RESOURCES

STANDARD LAYING CONDITION FOR PIPE
NOT TO SCALE
STANDARD DRAWING No. A-15



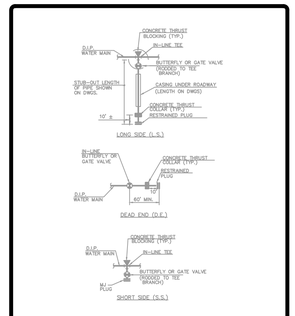
WATER MAIN DIA.	CONC. COLLAR DIM.		STEEL REINFORCING
	A	B	C
16"	2'-6"	6'-0"	6'-6" #5 @ 12" O.C. EW EF
12"	2'-0"	5'-3"	5'-3" #5 @ 12" O.C. EW EF
8"	1'-6"	4'-0"	4'-0" #5 @ 12" O.C. EW EF

TEST PRESSURE: 250 PSI
SOIL BEARING PRESSURE: 2000 PSF

THRUST COLLARS

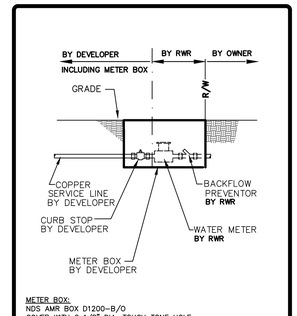
ROCKDALE WATER RESOURCES

THRUST COLLARS
NOT TO SCALE
STANDARD DRAWING No. A-17



ROCKDALE WATER RESOURCES

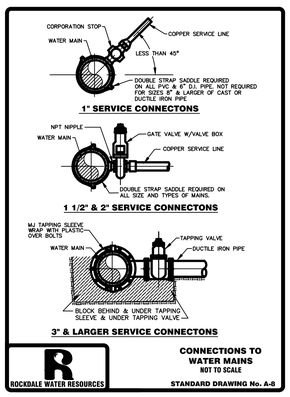
WATER MAIN STUB-OUT DETAILS
NOT TO SCALE
STANDARD DRAWING No. A-10



METER BOX:
NDS AMR BOX D1200-R/O
COVER WITH 2 1/8" DIA. TOUCH TONE HOLE.

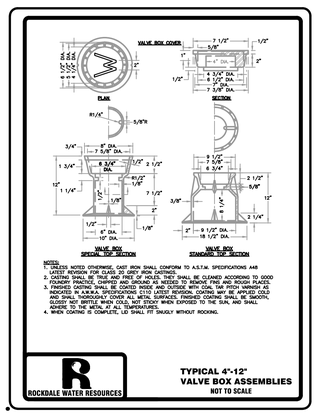
ROCKDALE WATER RESOURCES

RESIDENTIAL WATER METER AND BOX
NOT TO SCALE
STANDARD DRAWING No. A-11



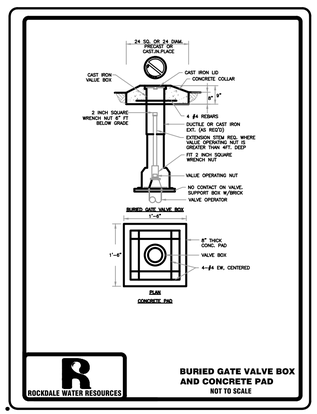
ROCKDALE WATER RESOURCES

CONNECTIONS TO WATER MAINS
NOT TO SCALE
STANDARD DRAWING No. A-8



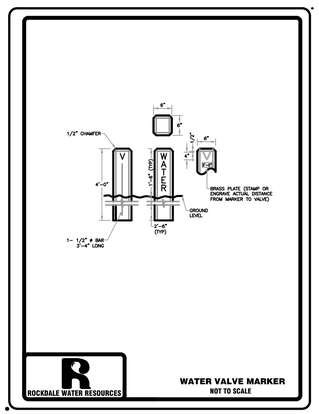
ROCKDALE WATER RESOURCES

TYPICAL 4'-12" VALVE BOX ASSEMBLIES
NOT TO SCALE



ROCKDALE WATER RESOURCES

BURIED GATE VALVE BOX AND CONCRETE PAD
NOT TO SCALE



ROCKDALE WATER RESOURCES

WATER VALVE MARKER
NOT TO SCALE

ROCKDALE WATER RESOURCES
1329 PORTMAN DRIVE SUITE H
CONYERS, GEORGIA 30094
PHONE (770)278-7432 FAX (770)918-6529

GEORGIA REGISTERED No. 30963 PROFESSIONAL ENGINEER DAVID J. CEPIONE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's **below.** **Call** before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DATE	REVISION

ROCKDALE COUNTY
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION PLAN DETAILS

KLONDIKE RD/MCDANIEL MILL RD/
HURST RD INTERSECTION IMPROVEMENTS

DRAWING No.
44-0014

I:\1_Engineering\PROJECTS\WATER DISTRIBUTION\Klondike @ McDaniel Mill Road\Drawings\CAD\Final Submittal\006932UTLP-20171115.dwg

10/12/2017

006932UTLP-20171115.dwg