

HOLMES COUNTY
OFFICE OF COUNTY ENGINEER

HOL-CR203-2.60

BERLIN TOWNSHIP HOLMES COUNTY

PROJECT DESCRIPTION

THIS PROJECT WILL REALIGN CR 203 AT THE INTERSECTION WITH TR 351. THE PROJECT LENGTH ALONG CR 203 IS APPROXIMATELY 0.21 MILES. WORK ALSO INVOLVES STORM DRAINAGE RECONFIGURATION AND DRIVE APPROACH REALIGNMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 3.3 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.5 ACRES
NOTICE OF INTENT (NOI) EARTH DISTURBED AREA: 4.9 ACRES

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

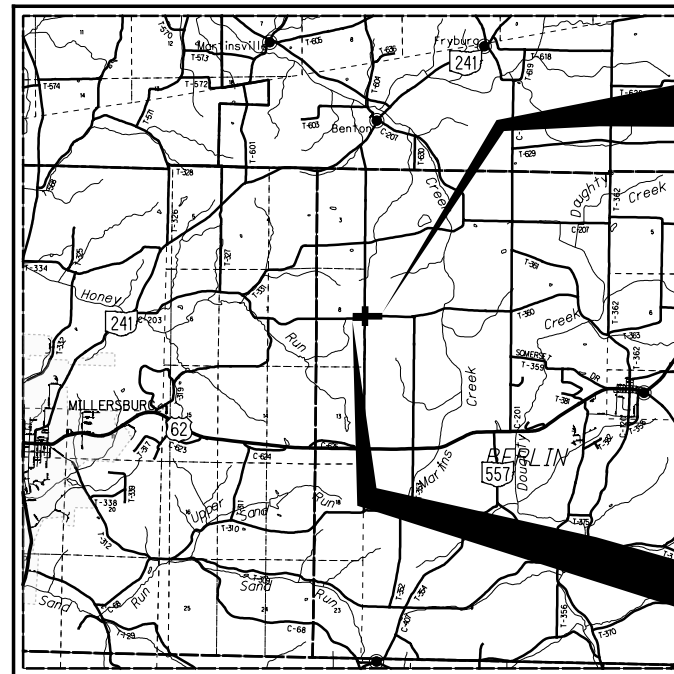
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 6 & 7

APPROVAL BY HOLMES COUNTY COMMISSIONERS

ROBERT L. AULT _____ DATE _____
RAY EYLER _____ DATE _____
JOE D. MILLER _____ DATE _____

APPROVAL BY HOLMES COUNTY ENGINEER

CHRISTOPHER R. YOUNG, _____ DATE _____
P.E., P.S.



END PROJECT
STA. 212+00.00
SLM = 2.81

BEGIN PROJECT
STA. 200+94.71
SLM = 2.60

LOCATION MAP

LATITUDE: 40°34'22" LONGITUDE: 81°50'59"



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	=====

DESIGN DESIGNATION	CR-203	TR-351
CURRENT ADT (2017)	197	385
DESIGN YEAR ADT (20)	(CURRENT ADT FROM ODOT TIMS)	
DESIGN HOURLY VOLUME (20)		
DIRECTIONAL DISTRIBUTION		
TRUCKS (24 HOUR B&C)		
DESIGN SPEED	40 MPH	40 MPH
LEGAL SPEED	40 MPH	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	07 - RURAL LOCAL	07 - RURAL LOCAL
NHS PROJECT	NO	

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UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig
1-800-362-2764

(Non-members must be called directly)
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE
1-800-925-0988

ENGINEERS SEAL:

SIGNED: *Matthew Lewis Johnson*
DATE: 5-8-2019

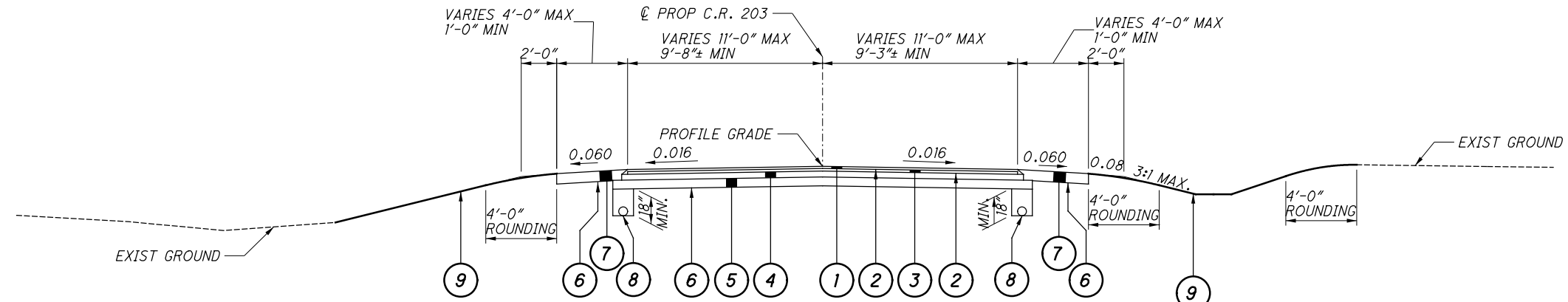
STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	7/18/14	TC-41.30	10/18/13	800-2019	4/19/19
BP-3.2	1/18/19	TC-41.50	10/18/13	832	10/19/18
BP-4.1	7/19/13	TC-42.20	10/18/13	836	1/19/18
CB-1.1	7/20/18	TC-52.10	10/18/13		
		TC-52.20	7/20/18		
DM-1.1	7/21/17				
DM-1.2	1/18/13				
DM-4.2	7/20/12				
DM-4.3	1/15/16				
DM-4.4	1/15/16				
MT-101.60	1/20/17				
MT-105.10	7/19/13				
TC-41.20	10/18/13				

PLAN PREPARED BY:
Palmer ENGINEERING
480 WHITE POND DRIVE - SUITE 300
ENGINEERING AKRON, OH 44320
WINCHESTER ■ NASHVILLE ■ LOUISVILLE
CINCINNATI ■ AKRON ■ TALLAHASSEE ■ ORLANDO

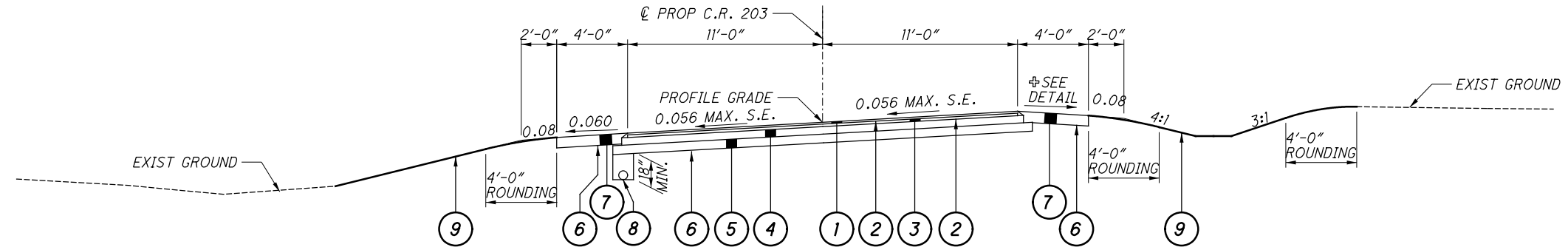
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FEDERAL PROJECT NO. 0
CONSTRUCTION PROJECT NO. 0
RAILROAD INVOLVEMENT NONE
HOL - CR203 - 2.60
1/50

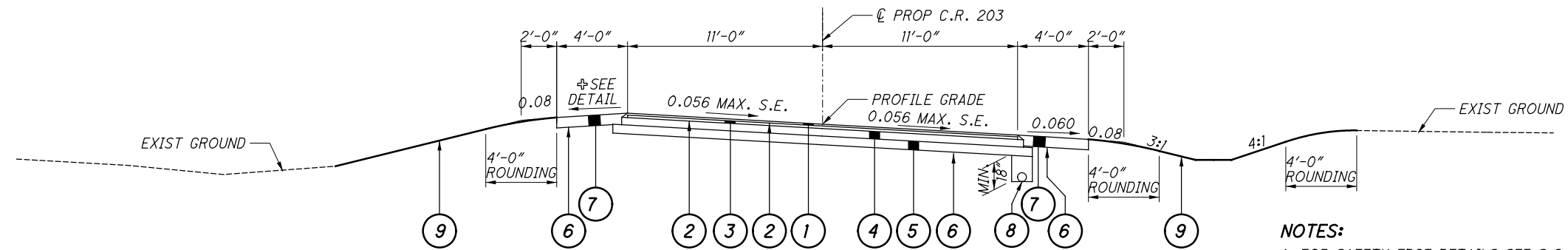
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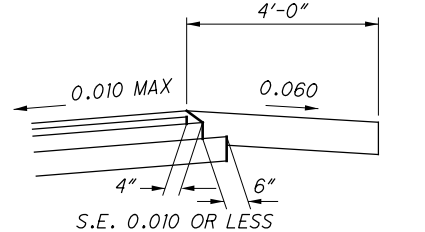
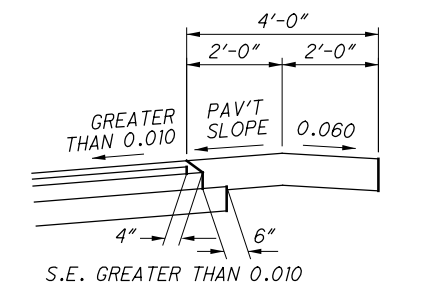
NORMAL SECTION - C.R. 203
 STATION 200+00.00 TO STATION 200+01.11
 STATION 204+52.60 TO STATION 205+81.66
 STATION 210+67.25 TO STATION 213+00.00



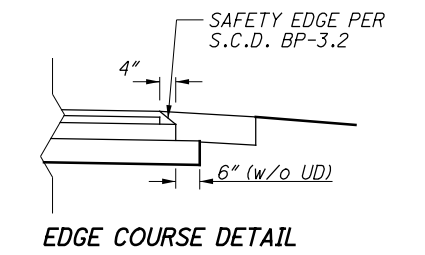
SUPERELEVATED SECTION - C.R. 203
 STATION 200+01.11 TO STATION 204+52.60



SUPERELEVATED SECTION - C.R. 203
 STATION 205+81.66 TO STATION 210+67.25



⊕ DETAIL - HIGH SIDE SHOULDER



- NOTES:**
1. FOR SAFETY EDGE DETAILS SEE S.C.D. BP-3.2
 2. FOR SLOPE AND WIDTH VARIATIONS SEE PLANS AND INTERSECTION DETAILS,
 3. FOR SUPERELEVATION TABLE, SEE SHEET 36

PROPOSED ITEM LEGEND

- | | | | |
|---|---|----|---|
| 1 | ITEM 441 - 1/4" SURFACE COURSE, TYPE 1 (448), PG64-22 | 7 | ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE |
| 2 | ITEM 407 - TACK COAT | 8 | ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC OR 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |
| 3 | ITEM 441 - 1 1/4" INTERMEDIATE COURSE, TYPE 2 (448) | 9 | ITEM 659 - SEEDING AND MULCHING |
| 4 | ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22 | 10 | ITEM 254 - 1/4" PAVEMENT PLANING, ASPHALT CONCRETE |
| 5 | ITEM 304 - 6" AGGREGATE BASE (LIMESTONE) | 11 | ITEM 441 - VARIABLE DEPTH (1/4" MIN) SURFACE COURSE, TYPE 1 (448), PG64-22 |
| 6 | ITEM 204 - SUBGRADE COMPACTION | | |

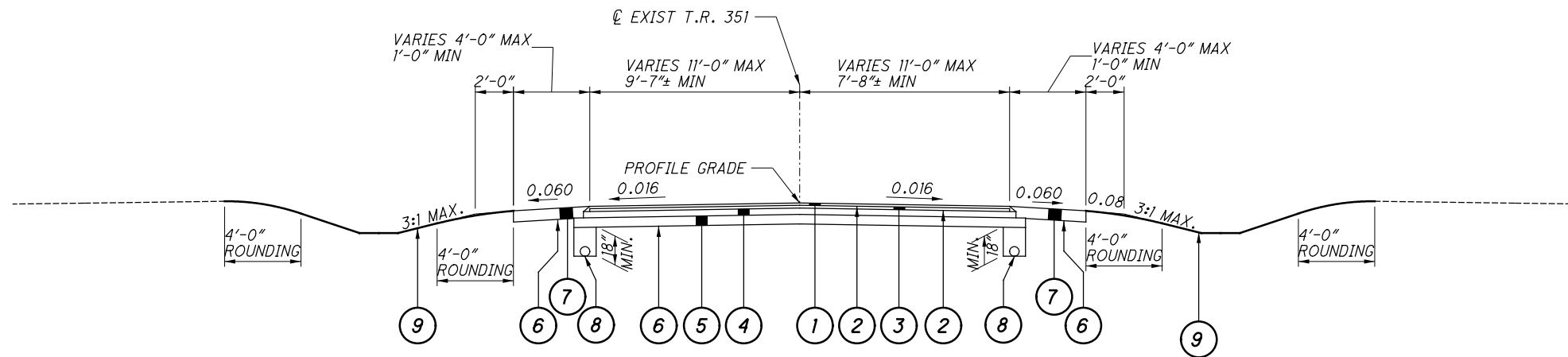
EXISTING LEGEND

- (A) ASPHALT CONCRETE
- (B) AGGREGATE BASE

TYPICAL SECTIONS - CR 203

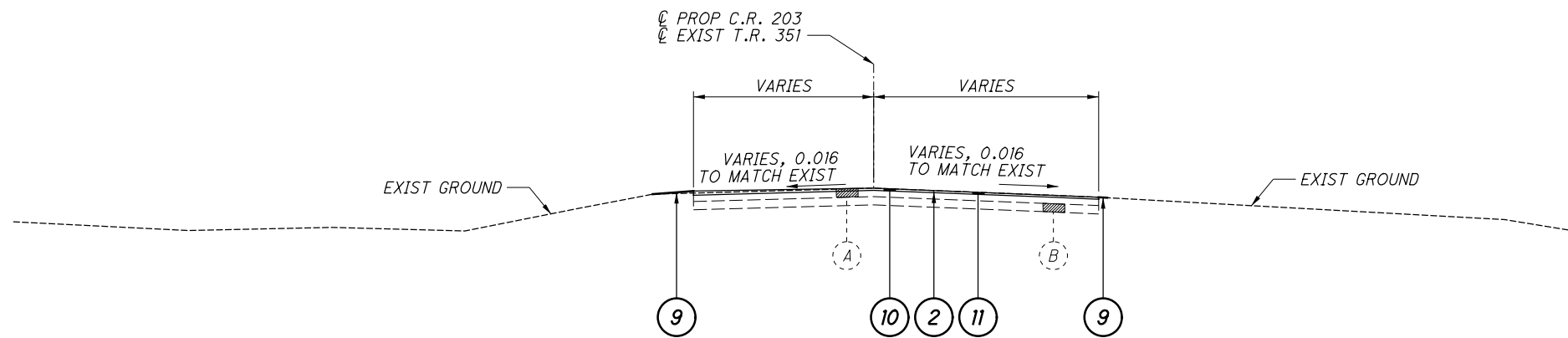
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NORMAL SECTION - T.R. 351

STATION 1+60.00 TO STATION 4+99.53
STATION 6+44.09 TO STATION 7+60.00



RESURFACING SECTION - CR 203 & TR 351

CR-203:
STATION 199+50.00 TO STATION 200+00.00
STATION 213+00.00 TO STATION 213+50.00

TR-351:
STATION 1+10.00 TO STATION 1+60.00
STATION 7+60.00 TO STATION 8+10.00

NOTES:

1. FOR SAFETY EDGE DETAILS SEE S.C.D. BP-3.2
2. FOR SLOPE AND WIDTH VARIATIONS SEE PLANS AND PAVEMENT DETAILS,
3. FOR LEGEND, SEE SHEET 2

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC - DISTRIBUTION: AEP OHIO 301 CLEVELAND AVE., S.W. CANTON, OHIO 44702-1623 ATTN.: KATHY A. MOSSBARGER (330) 438-7061
ELECTRIC - TRANSMISSION: AEP OHIO 700 Morrison Road GAHANNA, OH 43230 ATTN.: MICHAEL D. CARR (614) 552-1893

GAS - DISTRIBUTION: NORTHEAST OHIO NATURAL GAS 9081 STATE RT. 250 NW STRASBURG, OHIO 44680 MARK WETZEL (330) 878-4303
GAS - DISTRIBUTION: KNOX ENERGY COOPERATIVE ASSOCIATION, INC. 4100 HOLIDAY STREET NW SUITE 201 CANTON, OHIO 44718 KYLE UNDERWOOD (330) 448-9130 EXT. 310

GAS - TRANSMISSION: DIVERSIFIED OIL AND GAS 1026 COOKSON AVENUE SE NEW PHILADELPHIA, OHIO 44663 CHRISTOPHER BELCH (724) 323-5641

TELECOMMUNICATIONS: CENTURYLINK 2025 AKRON ROAD WOOSTER, OH 44691 JEFF SCHOONOVER (330) 262-1128

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

THE OWNERS LISTED ABOVE SHALL PERFORM ALL WORK TO THEIR FACILITIES REQUIRED TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL NOTIFY EACH UTILITY AT LEAST 30 DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH UTILITY OWNERS OR OTHERS PERFORMING RELOCATION/ ADJUSTMENT TO THEIR FACILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITIES OF HIS SCHEDULE SUFFICIENTLY IN ADVANCE TO PERMIT THE OWNERS TO MAKE NECESSARY ALTERATIONS. FAILURE TO DO SO WILL LEAVE THE CONTRACTOR RESPONSIBLE FOR ANY AND ALL DAMAGE TO SAID FACILITIES AS A RESULT OF THE CONTRACT.

NO ADDITIONAL PAYMENT WILL BE MADE FOR THE WORK DESCRIBED ABOVE AND/OR PROJECT DELAYS AS A RESULT OF ANY UTILITY WORK REQUIRED BY THE PROJECT.

PROJECT SCHEDULE

THE CONTRACTOR SHALL SUBMIT A TENTATIVE SCHEDULE OF THE VARIOUS PHASES/OPERATIONS OF THE WORK TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION. SAID SCHEDULE SHALL BE UPDATED ON A BI-WEEKLY BASIS. THE COST OF THE SCHEDULING WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPERATE COMPENSATION SHALL BE MADE.

TESTING

ALL TESTING AND ASSOCIATED FEES ARE THE RESONSIBILITY OF THE CONTRACTOR.

MOBILIZATION AND CONTRACT BONDING

ALL COSTS ASSOCIATED WITH MOBILIZATION AND CONTRACT BOND PREMIUMS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPERATE COMPENSATION SHALL BE MADE.

PROTECTION OF LANDSCAPING

WHERE IT IS NECESSARY TO DISTURB LAWNS, DRIVEWAYS, SIGNS, FLOWERS, FENCES, SHRUBS AND OTHER LANDSCAPING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE THE AREA TO A CONDITION AS GOOD OR BETTER AS IT WAS PRIOR TO CONSTRUCTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPERATE COMPENSATION SHALL BE MADE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SEEDING AND MULCHING

SEE SHEET 11 FOR QUANTITIES PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDDED AREAS.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

Table with 2 columns: SIZES, NO. TREES. Row 1: 18", 2

CONSTRUCTION EROSION CONTROL

THE FOLLOWING QUANTITY IS PROVIDED FOR EROSION CONTROL AND STORM WATER POLLUTION PREVENTION DURING CONSTRUCTION:

832, EROSION CONTROL 22,354 EACH

THIS WORK SHALL BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 832 AND AT THE DIRECTION OF THE ENGINEER.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

PROOF ROLLING

PRIOR TO PAVING, THE SUBGRADE SHALL BE TESTED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK FURNISHED BY THE CONTRACTOR. ANY YIELDING AREAS IN THE SUBGRADE SHALL BE REPAIRED AT THE DIRECTION OF THE COUNTY. THE COST OF TESTING SHALL BE INCLUDED WITH BID ITEM 204 SUBGRADE COMPACTION. IF THE CONTRACTOR REMOVES EXISTING PAVEMENT AND EXPOSES BASE TO WATER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ANY BASE THAT IS SOFT DUE TO MOISTURE OR DRY THE BASE AT NO ADDITIONAL COST TO THE OWNER.

PAVEMENT, BERM, DRIVE AND WALK REMOVAL

IN REMOVING FLEXIBLE OR RIGID PAVEMENT, DRIVES, WALKS, PARKING LOTS, ETC., A NEAT JOINT WITH A MINIMUM DEPTH OF 4" SHALL BE CUT WITH AN APPROVED POWER SAW AND IN ACCORDANCE WITH CMS 203.04(E). THE COST OF THE SAW CUT AND VOLUME OF EXISTING ASPHALT PAVEMENT, ASPHALT BERM, ASPHALT DRIVES AND LIMESTONE BERM REMOVED AND DISPOSED OF SHALL BE INCLUDED WITH ITEM 203, EXCAVATION. AFTER PLACEMENT OF NEW PAVEMENT THE JOINT SHALL BE SEALED PER CMS 401.17. THE COST OF THE JOINT SEALING SHALL BE INCLUDED WITH THE PERTINENT PAVEMENT REPLACEMENT ITEM.

ITEM 202, REMOVAL MISC.: STONE WALL REMOVED FOR STORAGE

THIS ITEM SHALL CONSIST OF REMOVING AND STORING THE EXISTING STONE WALL AS NOTED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THE PROPERTY OWNER AND STORE THE WALL COMPONENTS ON THE OWNERS PROPERTY AND IN A MANNER AGREED UPON WITH THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF IMPROPER HANDLING AS DETERMINED AND DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 202, REMOVAL MISC.: STONE WALL REMOVED FOR STORAGE, FOOT, AND SHALL INCLUDE ALL COORDINATION EFFORTS, LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

ITEM SPECIAL, MAILBOX REMOVED AND RESET

THIS ITEM SHALL CONSIST OF REMOVING, STORING AND RESETING EXISTING MAILBOXES AS NOTED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING AS DETERMINED AND DIRECTED BY THE ENGINEER.

IN THE EVENT THAT THE EXISTING MAILBOXES ARE NOT COMPATIBLE WITH ITEM SPECIAL, MAILBOX SUPPORT, THE CONTRACTOR SHALL REUSE THE EXISTING SUPPORTS. POST SHALL BE SET IN ACCORDANCE WITH THE FIRST PARAGRAPH OF C&MS 606.03 AND NO INSTANCE BE SET IN CONCRETE.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH C&MS 107.10; HOWEVER, THE MATERIAL AND SIZE LIMITATIONS FOR PERMANENT INSTALLATIONS SHALL APPLY.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM SPECIAL, MAILBOX REMOVED AND RESET, EACH, AND SHALL INCLUDE ALL COORDINATION EFFORTS, LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE WORK.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

ITEM 607, FENCE MISC.: ELECTRIFIED WIRE FENCE

THIS ITEM SHALL CONSIST OF SUPPLYING AND CONSTRUCTING ELECTRIFIED WIRE FENCING WITH WOOD POSTS AT THE LOCATIONS NOTED IN THE PLANS. THE FENCE COMPONENTS SHALL MATCH THE EXISTING FENCING IN KIND AND POST SPACING. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THE PROPERTY OWNER RELATIVE TO THE DE-ENERGIZING AND RE-ENERGIZING OF THE FENCING AND TO INSURE THE PROTECTION OF LIVESTOCK. THIS MAY INVOLVE THE INSTALLATION TEMPORARY FENCING/BARRIER SUITABLE TO THE CONTAINMENT OF THE LIVESTOCK.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 607, FENCE MISC.: ELECTRIFIED WIRE FENCE, FOOT, AND SHALL INCLUDE ALL COORDINATION EFFORTS, LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

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CALCULATED DPF CHECKED MLJ

GENERAL NOTES

HOL - CR203 - 2.60

SURVEYING PARAMETERS

SEE TABLE BELOW FOR PROJECT CONTROL INFORMATION.
USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: 4DR Robotic Total Station
MONUMENT TYPE: SET SURVEY SPIKE

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE
COMBINED SCALE FACTOR: 0.99992369
ORIGIN OF COORDINATE SYSTEM:
1.5 Hour Static Session, Post-Processing by NGS OPUS

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

ALL PROPERTY PINS OR MONUMENTS WHICH ARE REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN THE SAME LOCATION THEY OCCUPIED PRIOR TO CONSTRUCTION. THIS WORK SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF OHIO.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKES REQUIRED AND STAKING VERIFICATION.

THE COST OF RESETTING BENCH MARKS, REPLACING PROPERTY PINS/MONUMENTS, AND PROVIDING CONSTRUCTION STAKING AND VERIFICATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 8" CONDUIT, TYPE B 20 FT.

611 8" CONDUIT, TYPE E 20 FT.

611 8" CONDUIT, TYPE F 20 FT.

601 ROCK CHANNEL PROTECTION TYPE C WITH GEOTEXTILE FABRIC
2 CU. YD.

SPRING DRAINS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR DRAINING ANY SPRINGS SHOWN IN THE PLAN OR ENCOUNTERED DURING CONSTRUCTION. THE FOLLOWING TYPES OF PIPES MAY BE USED: 707.33, 707.41, 707.42 or 707.45 PERFORATED PER 707.31.

SPRING DRAINS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD CONSTRUCTION DRAWING DM-1.1 AND PAID FOR AT THE CONTRACT PRICE FOR:

605, 6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS
20 FT.

605, AGGREGATE DRAINS FOR SPRINGS
20 FT.

611, PRECAST REINFORCED CONCRETE OUTLET
2 EACH

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY COUNTY FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF THE MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

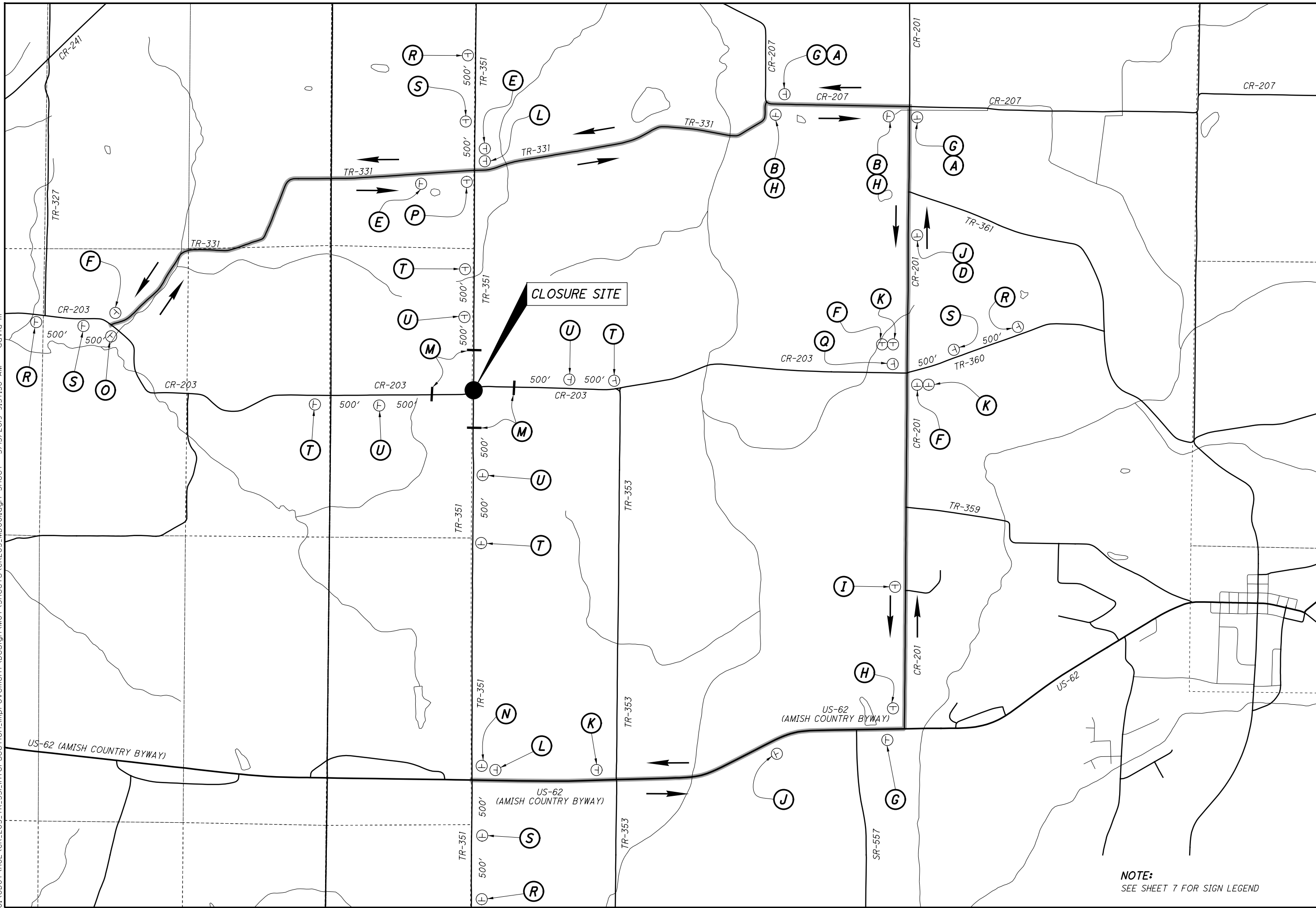
1. LOCAL ACCESS TO PROPERTIES ALONG CR 230 AND TR 351 WITHIN THE PROJECT WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
2. THE HOLMES COUNTY ENGINEER'S OFFICE WILL CLOSE C.R. 230 AND TR 351 AND PROVIDE DETOUR SIGNING, INCLUDING ADVANCED NOTICE OF ROAD CLOSURE SIGNAGE AS SHOWN ON SHEETS 6 - 7 . ALL REQUIRED DETOUR SIGNING, BARRICADES, SIGN SUPPORTS, WARNING LIGHTS SHALL BE FURNISHED, ERECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY COUNTY FORCES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL ADVANCE WARNING AND WORK ZONE TRAFFIC SIGNS, DEVICES, FLAGGING OPERATIONS, ETC. REQUIRED BY THE PROJECT. THE CONTRACTOR SHALL FURNISH, ERECT AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS AND INCIDENTALS RELATED THERETO.
4. ALL TRENCHES UNDER AND WITHIN TWO (2) FEET OF PROPOSED PAVEMENT/DRIVES SHALL BE BACKFILLED WITH NO. 304 AGGREGATE MATERIAL. THE COST OF REQUIRED BACKFILL TO BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614- MAINTAINING TRAFFIC.
5. THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE COST OF THE WATER TO BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614- MAINTAINING TRAFFIC.
6. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

HORIZONTAL & VERTICAL CONTROL POINTS - STATION-OFFSET FROM E PROP. CR-203 OR EXIST. TR-351

POINT NUMBER	GRID COORDINATES (U.S. SURVEY FOOT)		GROUND COORDINATES (U.S. SURVEY FOOT)		CR-203		TR-351		ELEVATION	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING	STATION	OFFSET	STATION	OFFSET		
CPT1	330,859.416	2,150,300.709	330,884.666	2,150,464.811	215+28.43	6.73' RT.			1143.42	MAG SPIKE
CPT2	331,547.162	2,149,171.039	331,572.464	2,149,335.055			13+24.55	9.25' LT.	1185.60	MAG SPIKE
CPT3	330,214.264	2,149,161.984	330,239.465	2,149,325.999			0+08.31	12.10' LT.	1173.67	MAG SPIKE
CPT4	330,744.529	2,148,516.705	330,769.770	2,148,680.671	197+93.30	10.53' LT.			1182.09	MAG SPIKE

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CLOSURE SITE

CALCULATED
CCS
CHECKED
DPF

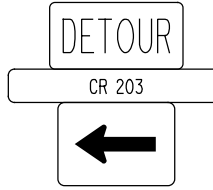
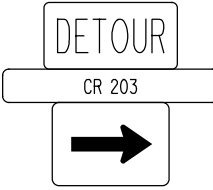
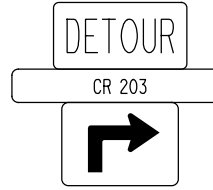
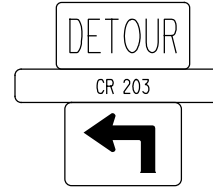
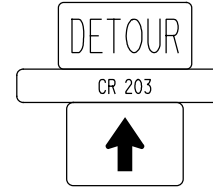
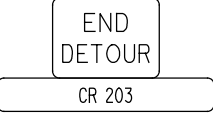
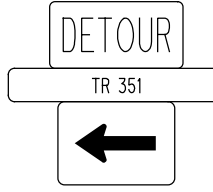
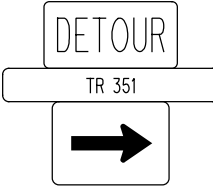
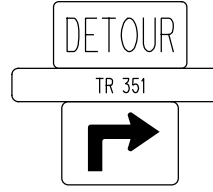
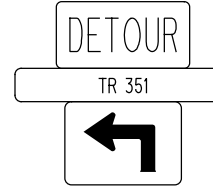
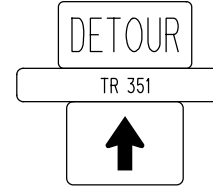
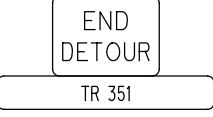




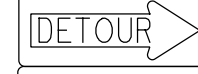




0 400 800 1600
HORIZONTAL SCALE IN FEET

DETOUR PLAN
CR 203 & TR 351

HOL - CR203 - 2.60

6
50

NOTE:
SEE SHEET 7 FOR SIGN LEGEND

<p>(A)</p>  <p>CR 203</p> <p>←</p> <p>M4-8-24 D3-2 M6-1-L-21</p>	<p>(B)</p>  <p>CR 203</p> <p>→</p> <p>M4-8-24 D3-2 M6-1-R-21</p>	<p>(C)</p>  <p>CR 203</p> <p>↗</p> <p>M4-8-24 D3-2 M5-1-R-21</p>	<p>(D)</p>  <p>CR 203</p> <p>↖</p> <p>M4-8-24 D3-2 M5-1-L-21</p>	<p>(E)</p>  <p>CR 203</p> <p>↑</p> <p>M4-8-24 D3-2 M6-3-21</p>	<p>(F)</p>  <p>END DETOUR</p> <p>CR 203</p> <p>M4-8A-24 D3-2</p>
<p>(G)</p>  <p>TR 351</p> <p>←</p> <p>M4-8-24 D3-2 M6-1-L-21</p>	<p>(H)</p>  <p>TR 351</p> <p>→</p> <p>M4-8-24 D3-2 M6-1-R-21</p>	<p>(I)</p>  <p>TR 351</p> <p>↗</p> <p>M4-8-24 D3-2 M5-1-R-21</p>	<p>(J)</p>  <p>TR 351</p> <p>↖</p> <p>M4-8-24 D3-2 M5-1-L-21</p>	<p>(K)</p>  <p>TR 351</p> <p>↑</p> <p>M4-8-24 D3-2 M6-3-21</p>	<p>(L)</p>  <p>END DETOUR</p> <p>TR 351</p> <p>M4-8A-24 D3-2</p>
<p>(M)</p>  <p>ROAD CLOSED</p> <p>R11-2-48 TYPE 3 BARRICADE PER MT 101.60</p>	<p>(N)</p>  <p>DETOUR</p> <p>ROAD CLOSED 1.3 MILES AHEAD LOCAL TRAFFIC ONLY</p> <p>M4-10R-48 R11-3A-60</p>	<p>(O)</p>  <p>DETOUR</p> <p>ROAD CLOSED 1.3 MILES AHEAD LOCAL TRAFFIC ONLY</p> <p>M4-10L-48 R11-3A-60</p>	<p>(P)</p>  <p>DETOUR</p> <p>ROAD CLOSED 0.6 MILES AHEAD LOCAL TRAFFIC ONLY</p> <p>M4-10L-48 R11-3A-60</p>	<p>(Q)</p>  <p>DETOUR</p> <p>ROAD CLOSED 1.4 MILES AHEAD LOCAL TRAFFIC ONLY</p> <p>M4-10R-48 R11-3A-60</p>	
<p>(R)</p>  <p>ROAD CLOSED AHEAD</p> <p>W20-3-36</p>	<p>(S)</p>  <p>DETOUR AHEAD</p> <p>W20-2-36</p>	<p>(T)</p>  <p>ROAD CLOSED 1000 FT</p> <p>W20-3-36</p>	<p>(U)</p>  <p>ROAD CLOSED 500 FT</p> <p>W20-3-36</p>		

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SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	4	5	10	11	38				OFFICE CALCS.							
															ROADWAY	
	LS										201	11000	LS		CLEARING AND GRUBBING	
			56								202	30000	56	SF	WALK REMOVED	
			769								202	35100	769	FT	PIPE REMOVED, 24" AND UNDER	
			7								202	58100	7	EACH	CATCH BASIN REMOVED	
			1,592								202	75000	1,592	FT	FENCE REMOVED	
			2								202	98100	2	EACH	REMOVAL MISC.: WOOD POST	
			40								202	98200	40	FT	REMOVAL MISC.: STONE WALL REMOVED FOR STORAGE	4
					3,661						203	10000	3,661	CY	EXCAVATION	
					4,502						203	20000	4,502	CY	EMBANKMENT	
						701			5,431		204	10000	6,132	SY	SUBGRADE COMPACTION	
			1,472								607	98000	1,472	FT	FENCE, MISC.: ELECTRIFIED WIRE FENCE	4
			31								608	10000	31	SF	4" CONCRETE WALK	
			6								SPECIAL	69050100	6	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	4
			6								SPECIAL	69050350	6	EACH	MAILBOX REMOVED AND RESET	4
															EROSION CONTROL	
		2	2								601	32204	4	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
				2							659	00100	2	EACH	SOIL ANALYSIS TEST	
				928							659	00300	928	CY	TOPSOIL	
				8,359							659	10000	8,359	SY	SEEDING AND MULCHING	
				418							659	14000	418	SY	REPAIR SEEDING AND MULCHING	
				418							659	15000	418	SY	INTER-SEEDING	
				1.13							659	20000	1.13	TON	COMMERCIAL FERTILIZER	
				1.73							659	31000	1.73	ACRE	LIME	
				45							659	35000	45	MGAL	WATER	
			1,047								670	00710	1,047	SY	DITCH EROSION PROTECTION MAT, TYPE A	
											832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
	22,354										832	30000	22,354	EACH	EROSION CONTROL	
			398								836	10020	398	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2	
															DRAINAGE	
				0.7							602	20000	0.7	CY	CONCRETE MASONRY	
				103							605	13410	103	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	20										605	13402	20	FT	6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS	
			2,548								605	14020	2,548	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	20										605	32200	20	FT	AGGREGATE DRAINS FOR SPRINGS	
											611	00510	155	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
											611	01800	20	FT	8" CONDUIT, TYPE B	
	20										611	02500	20	FT	8" CONDUIT, TYPE E	
	20										611	02600	20	FT	8" CONDUIT, TYPE F	
			430								611	04400	430	FT	12" CONDUIT, TYPE B	
											611	04600	231	FT	12" CONDUIT, TYPE C	
			231								611	98470	6	EACH	CATCH BASIN, NO. 2-2B	
			6								611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
			1								611	98634	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
		2									611	99710	6	EACH	PRECAST REINFORCED CONCRETE OUTLET	

GENERAL SUMMARY

HOL - CR203 - 2.60

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
					11		38		41		OFFICE CALCS.		EXT	TOTAL			
PAVEMENT																	
											436	254	01000	436	SY	PAVEMENT PLANING, ASPHALT CONCRETE 1-1/4"	
											689	301	46000	689	CY	ASPHALT CONCRETE BASE, PG64-22	
							26					301	48000	26	CY	ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)	
											860	304	20000	860	CY	AGGREGATE BASE	
							36				329	407	10000	365	GAL	TACK COAT	
											331	411	10000	331	CY	STABILIZED CRUSHED AGGREGATE	
					5						183	441	50000	188	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
											235	441	50300	235	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
												441	50400	21	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
							21					452	10050	99	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
							99										
TRAFFIC CONTROL																	
								163.4				630	03100	163.4	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
								4				630	08600	4	EACH	SIGN POST REFLECTOR	
								40.5				630	80100	40.5	SF	SIGN, FLAT SHEET	
								5				630	84900	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								8				630	85100	8	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
								1.2				644	00100	1.2	MILE	EDGE LINE, 4"	
								0.6				644	00300	0.6	MILE	CENTER LINE	
								35				644	00500	35	FT	STOP LINE	
INCIDENTALS																	
												614	11000	LS		MAINTAINING TRAFFIC	
												623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	

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CALCULATED	DAM	CHECKED	DPF			
		<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">50</td> </tr> </table>	9	50		
9						
50						

CROSS SECTION QUANTITIES

SHEET NO.	STATION		203		659
			EXCAVATION	EMBANKMENT	SEEDING AND MULCHING
	FROM	TO	CY	CY	SY
CR 203					
17	197+50.00	199+00.00	0	0	0
18	199+50.00	201+00.00	105	18	217
19	201+50.00	202+50.00	383	77	649
20	203+00.00	204+00.00	232	509	729
21	204+25.00	206+00.00	155	462	960
22	206+50.00	208+00.00	157	1183	1260
23	208+50.00	210+00.00	98	938	960
24	210+50.00	212+00.00	173	194	698
25	212+50.00	214+00.00	179	1	246
26	214+50.00	215+00.00	0	0	0
CR 203 TOTALS			1482	3382	5719
TR 351 TOTALS					
29	0+00.00	1+50.00	28	0	231
30	1+60.00	3+00.00	690	4	828
31	3+50.00	4+50.00	157	446	547
32	5+00.00	6+50.00	180	670	566
33	7+00.00	7+60.00	1030	0	744
34	8+00.00	9+00.00	94	0	122
35	9+50.00		0	0	0
TR 351 TOTALS			2179	1120	3038
PROJECT TOTALS			3661	4502	8757
TOTALS CARRIED TO GENERAL SUMMARY					
203 - EXCAVATION			3657		CY
203 - EMBANKMENT			4502		CY
SEEDING AND MULCHING - GROSS AREA			8757		SY
DEDUCT 870 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 AREA			-398		SY
659 - SEEDING AND MULCHING			8359		SY
659- REPAIR SEEDING AND MULCHING			418		SY
659 - INTER-SEEDING			418		SY
659 - TOPSOIL			928		CY
659 - SOIL ANALYSIS TEST			2		EACH
659 -COMMERCIAL FERTILIZER			1.13		TON
659 - LIME			1.73		ACRE
659 - WATER			45		MGAL

SAFETY EDGE QUANTITIES

SHEET NO.	STATION		SIDE	LENGTH	441
					ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) (0.045#L/27)
	FROM	TO			CY
CR 203					
13	200+00.00	200+56.35	LT	56.35	0.09
13	200+00.00	200+89.68	RT	89.68	0.15
13-14	200+84.87	204+11.89	LT	327.02	0.55
13-14	201+16.50	202+04.97	RT	88.47	0.15
14	202+55.86	203+87.87	RT	132.01	0.22
TR 351					
14-15	205+02.54	213+00.00	RT	797.46	1.33
14-15	205+31.43	207+80.14	LT	248.71	0.42
15	208+07.97	208+80.89	LT	72.92	0.12
15	209+08.61	210+06.54	LT	97.93	0.16
15	210+52.70	211+74.52	LT	121.82	0.20
16	212+01.22	212+65.64	LT	64.42	0.11
16	212+93.66	213+00.00	LT	6.34	0.01
TOTALS CARRIED TO GENERAL SUMMARY					5

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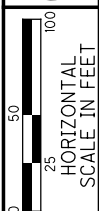
ESTIMATED QUANTITIES

HOL - CR203 - 2.60

PROJECT DESCRIPTION

THIS PROJECT WILL REALIGN CR 203 AT THE INTERSECTION WITH TR 351. THE PROJECT LENGTH ALONG CR 203 IS APPROXIMATELY 0.21 MILES. WORK ALSO INVOLVES STORM DRAINAGE RECONFIGURATION AND DRIVE APPROACH REALIGNMENTS.

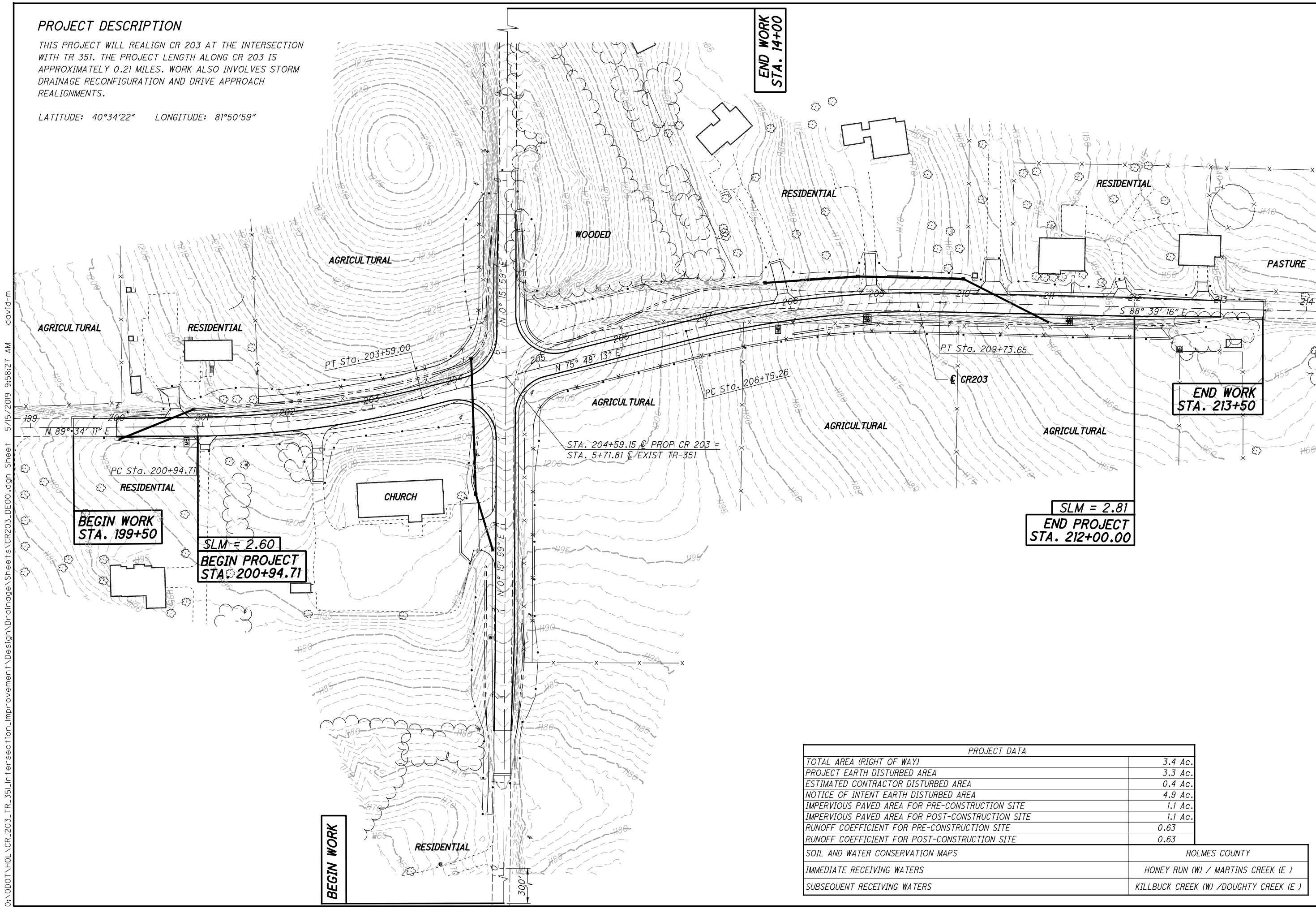
LATITUDE: 40°34'22" LONGITUDE: 81°50'59"



CALCULATED
DPF
CHECKED
MLJ

**PROJECT SITE PLAN
CR203 AND TR351**

HOL-CR203-2.60



**BEGIN WORK
STA. 199+50**

**SLM = 2.60
BEGIN PROJECT
STA. 200+94.71**

**END WORK
STA. 14+00**

**END WORK
STA. 213+50**

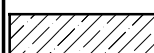
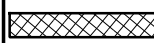
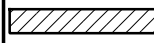
**SLM = 2.81
END PROJECT
STA. 212+00.00**

STA. 204+59.15 @ PROP CR 203 =
STA. 5+71.81 @ EXIST TR-351

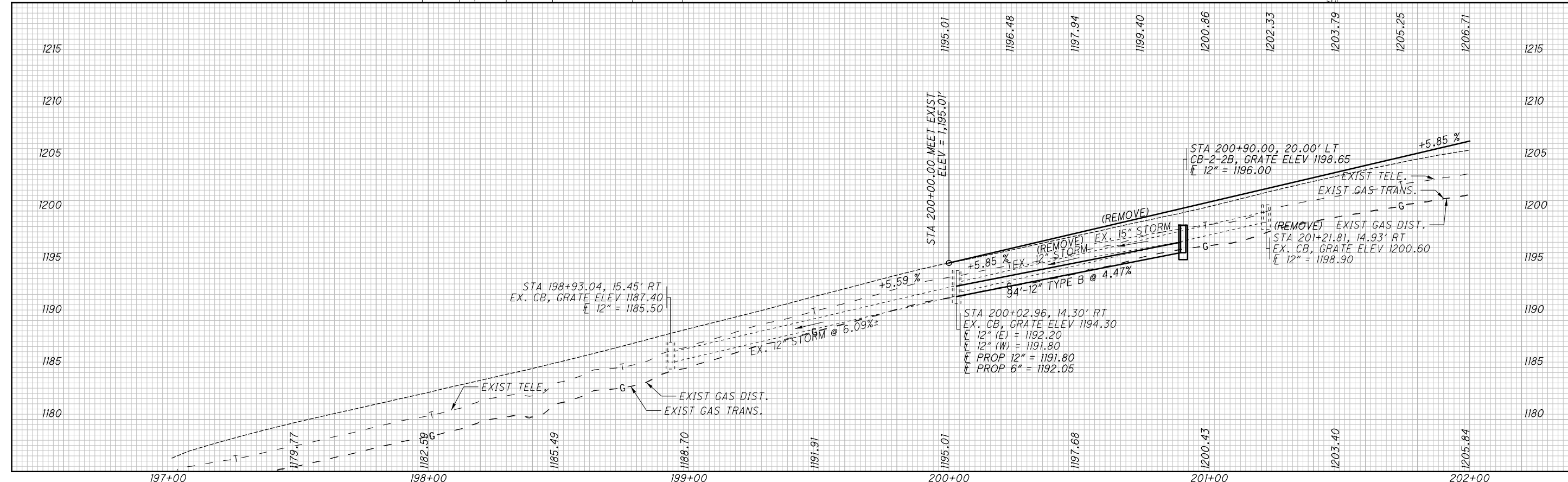
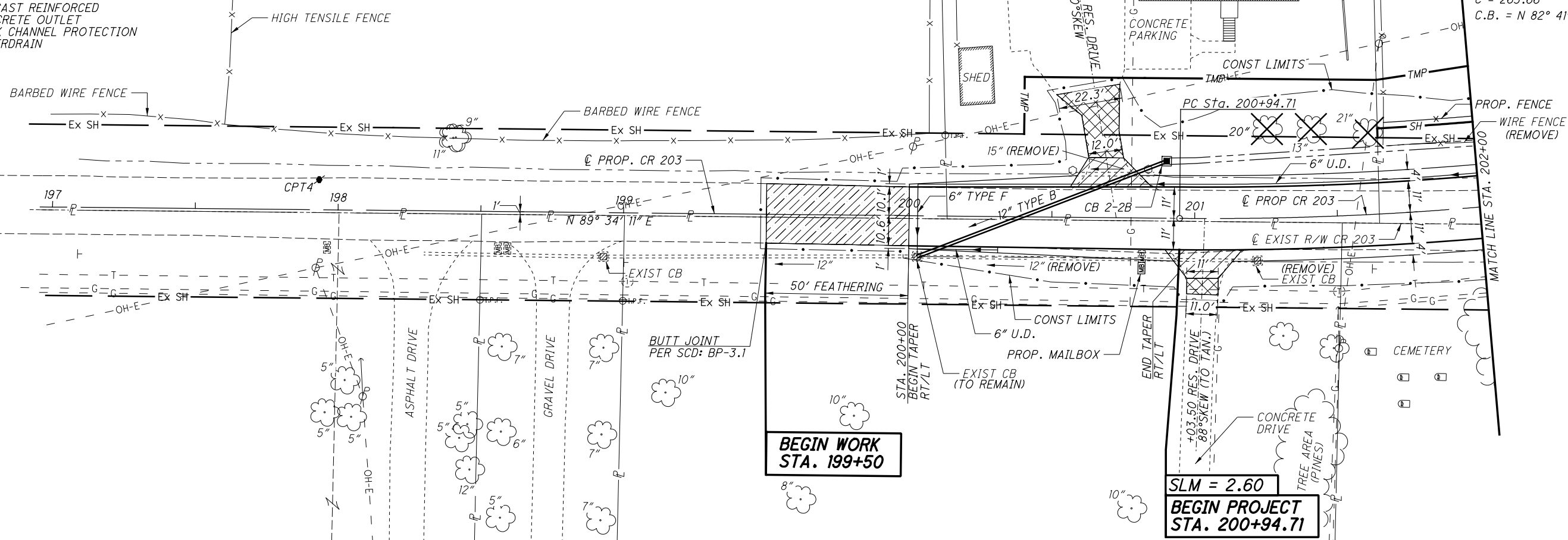
PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)	3.4 Ac.
PROJECT EARTH DISTURBED AREA	3.3 Ac.
ESTIMATED CONTRACTOR DISTURBED AREA	0.4 Ac.
NOTICE OF INTENT EARTH DISTURBED AREA	4.9 Ac.
IMPERVIOUS PAVED AREA FOR PRE-CONSTRUCTION SITE	1.1 Ac.
IMPERVIOUS PAVED AREA FOR POST-CONSTRUCTION SITE	1.1 Ac.
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.63
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.63
SOIL AND WATER CONSERVATION MAPS	HOLMES COUNTY
IMMEDIATE RECEIVING WATERS	HONEY RUN (W) / MARTINS CREEK (E)
SUBSEQUENT RECEIVING WATERS	KILLBUCK CREEK (W) / DOUGHTY CREEK (E)

O:\0001\HOL\CR_203_TR_351\Intersection_Improvement\Design\Drawings\CR203_DE001.dgn Sheet 5/15/2019 9:58:27 AM david-m

LEGEND

-  FEATHERING:
ITEM 254: 1/4" PAVEMENT PLANING &
VARIABLE DEPTH (1/4" MIN) ASPHALT CONCRETE SURFACE COURSE
 -  PROPOSED DRIVEWAY (SEE SHEET 38 FOR COMPOSITION)
 -  PROPOSED DRIVE APRON (SEE SHEET 38 FOR COMPOSITION)
- P.R.C.O. = PRECAST REINFORCED
CONCRETE OUTLET
R.C.P. = ROCK CHANNEL PROTECTION
U.D. = UNDERDRAIN

P.I. Sta. 202+27.50
 $\Delta = 13^\circ 45' 58''$ (LT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 132.79'$
 $L = 264.29'$
 $E = 7.99'$
 $C = 263.66'$
 $C.B. = N 82^\circ 41' 12'' E$



PLAN AND PROFILE - CR 203
STA. 197+00.00 TO STA. 202+00.00

HOL-CR203-2.60

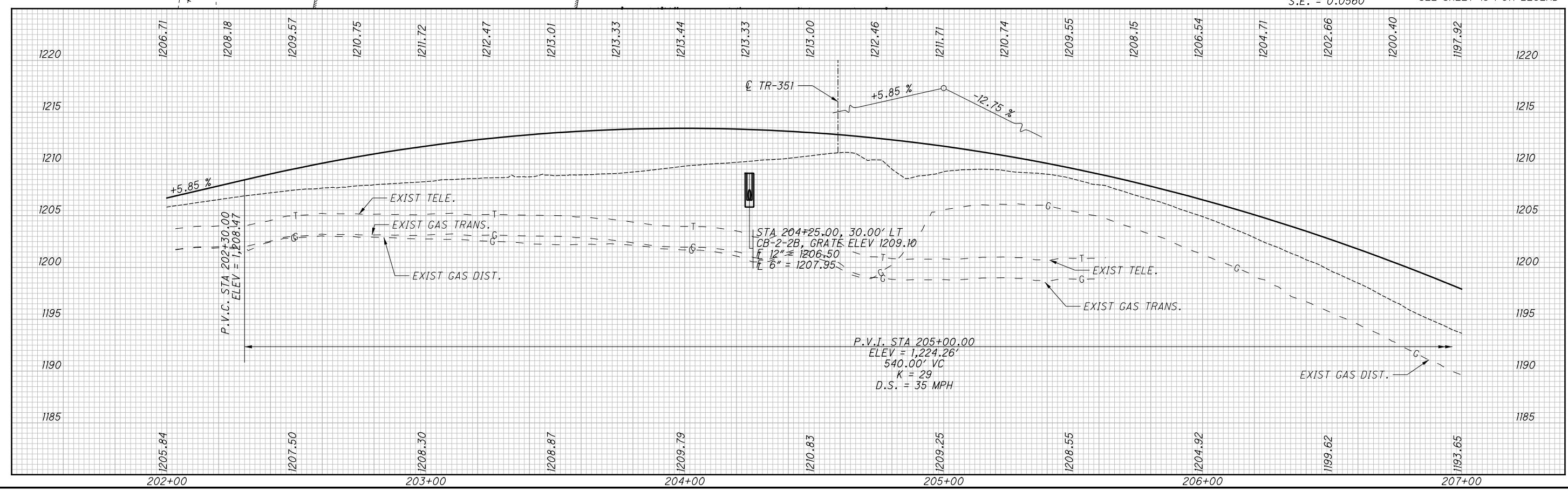
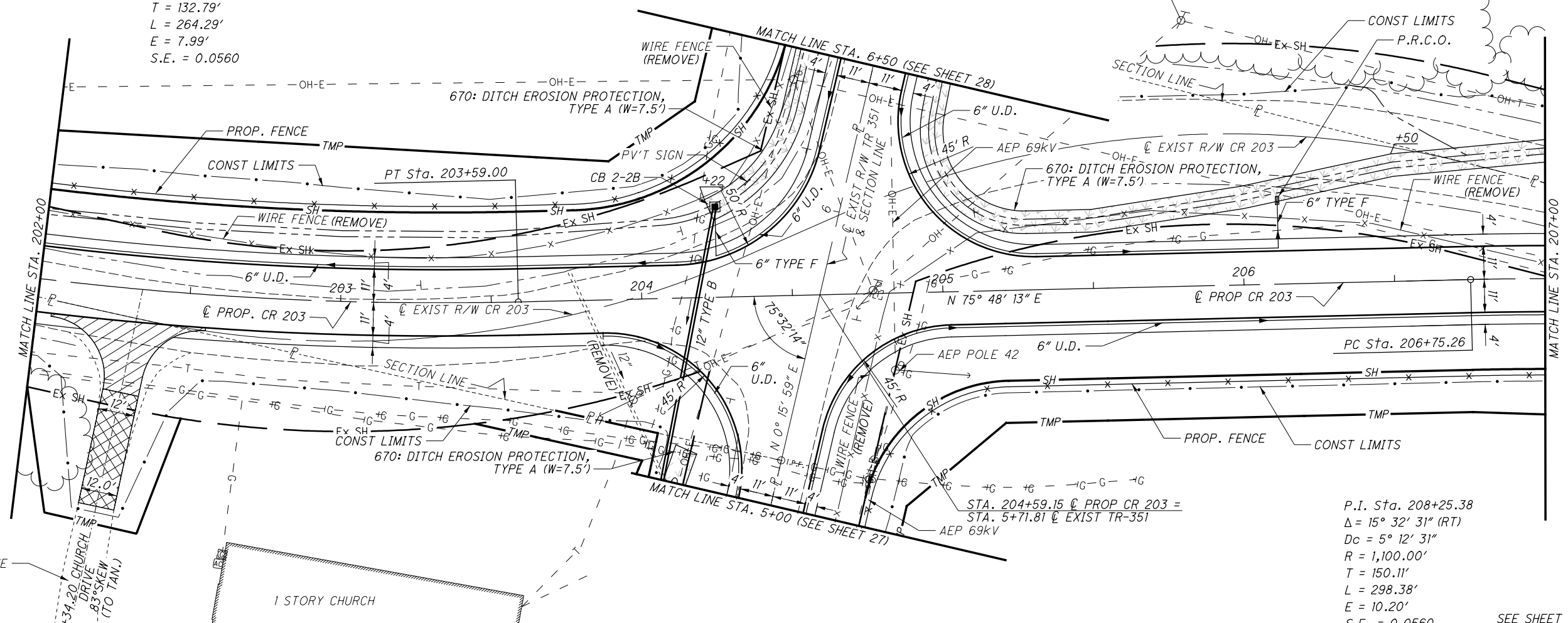
13
 50

o:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_GPO01.dgn Sheet 5/15/2019 9:58:44 AM david-m

P.I. Sta. 202+27.50
 $\Delta = 13^\circ 45' 58''$ (LT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 132.79'$
 $L = 264.29'$
 $E = 7.99'$
 $S.E. = 0.0560$

P.I. Sta. 208+25.38
 $\Delta = 15^\circ 32' 31''$ (RT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 150.11'$
 $L = 298.38'$
 $E = 10.20'$
 $S.E. = 0.0560$

SEE SHEET 13 FOR LEGEND



CALCULATED
 DPF
 CHECKED
 MLJ

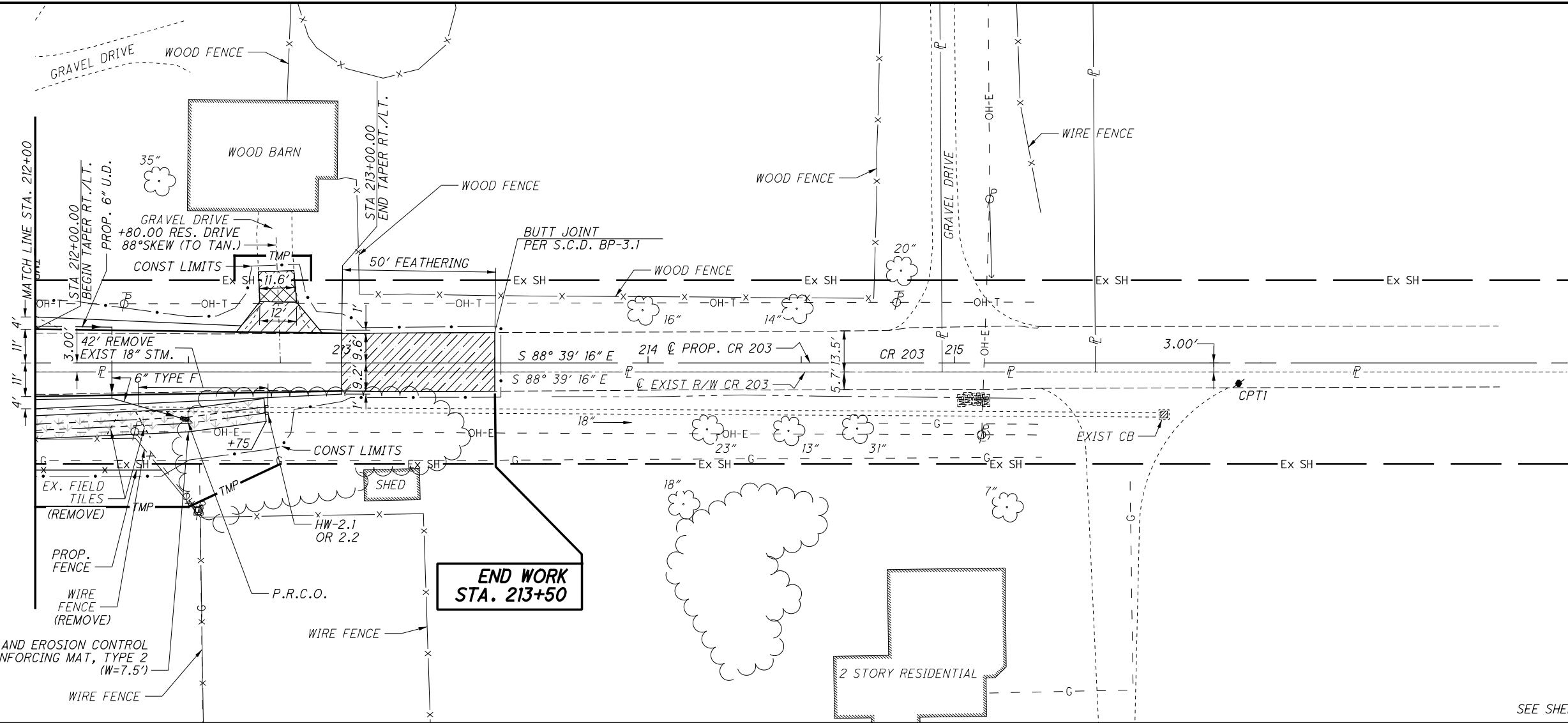
PLAN AND PROFILE - CR 203
 STA. 202+00.00 TO STA. 207+00.00

HOL-CR203-2.60

14
 50

o:\0001\HOL_CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_6P002.dgn Sheet 5/15/2019 9:59:03 AM david-m

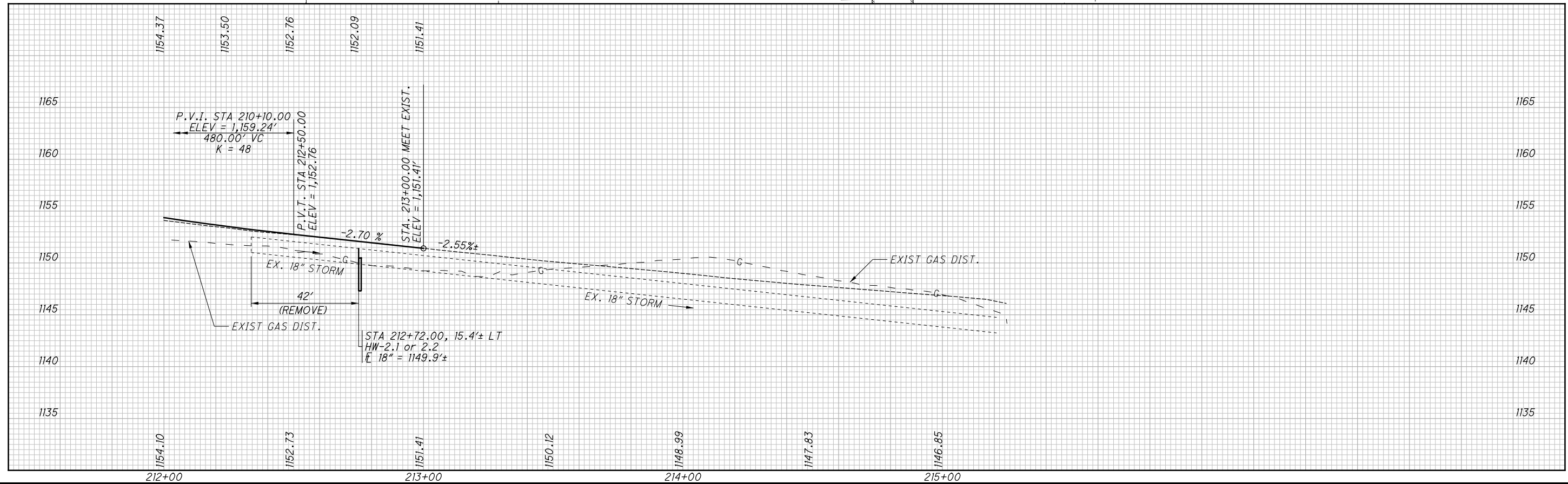
o:\0DOT\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_GPO04.dgn Sheet 5/15/2019 9:59:46 AM david-m



836: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (W=7.5')

END WORK STA. 213+50

SEE SHEET 13 FOR LEGEND

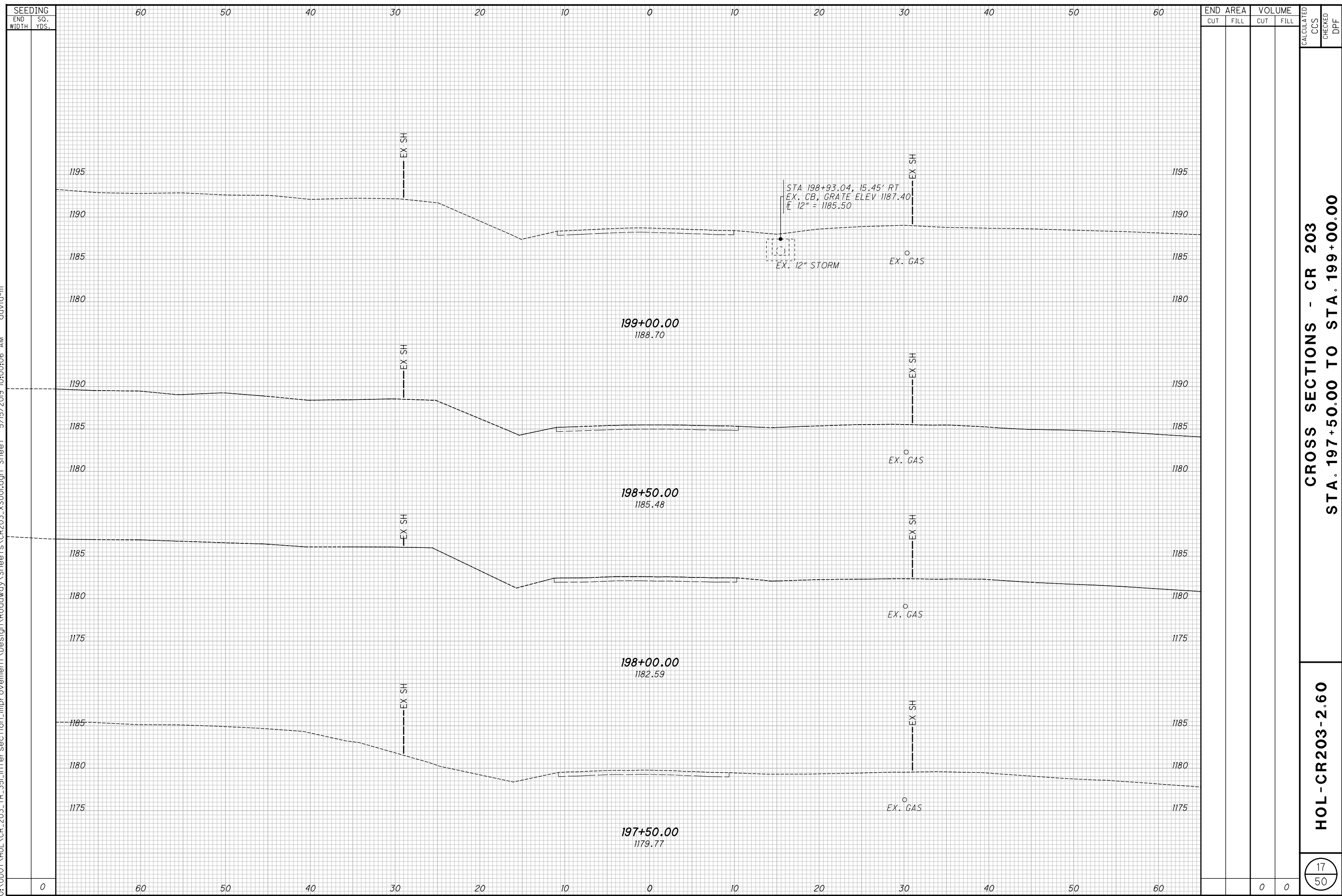


CALCULATED DPF CHECKED MLJ

PLAN AND PROFILE - CR 203 STA. 212+00.00 TO STA. 215+28.43

HOL - CR203 - 2.60

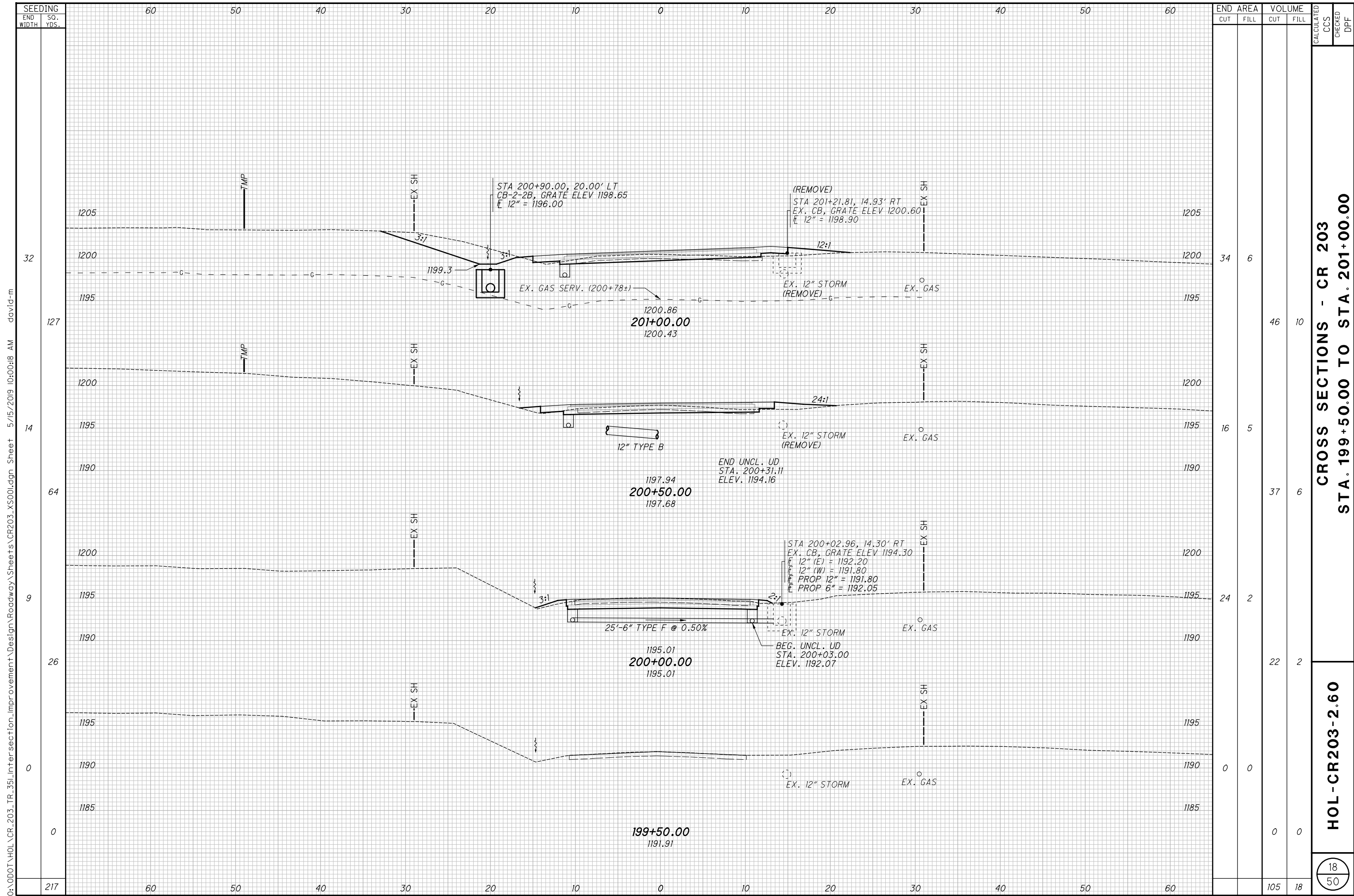
O:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:06 AM david-m

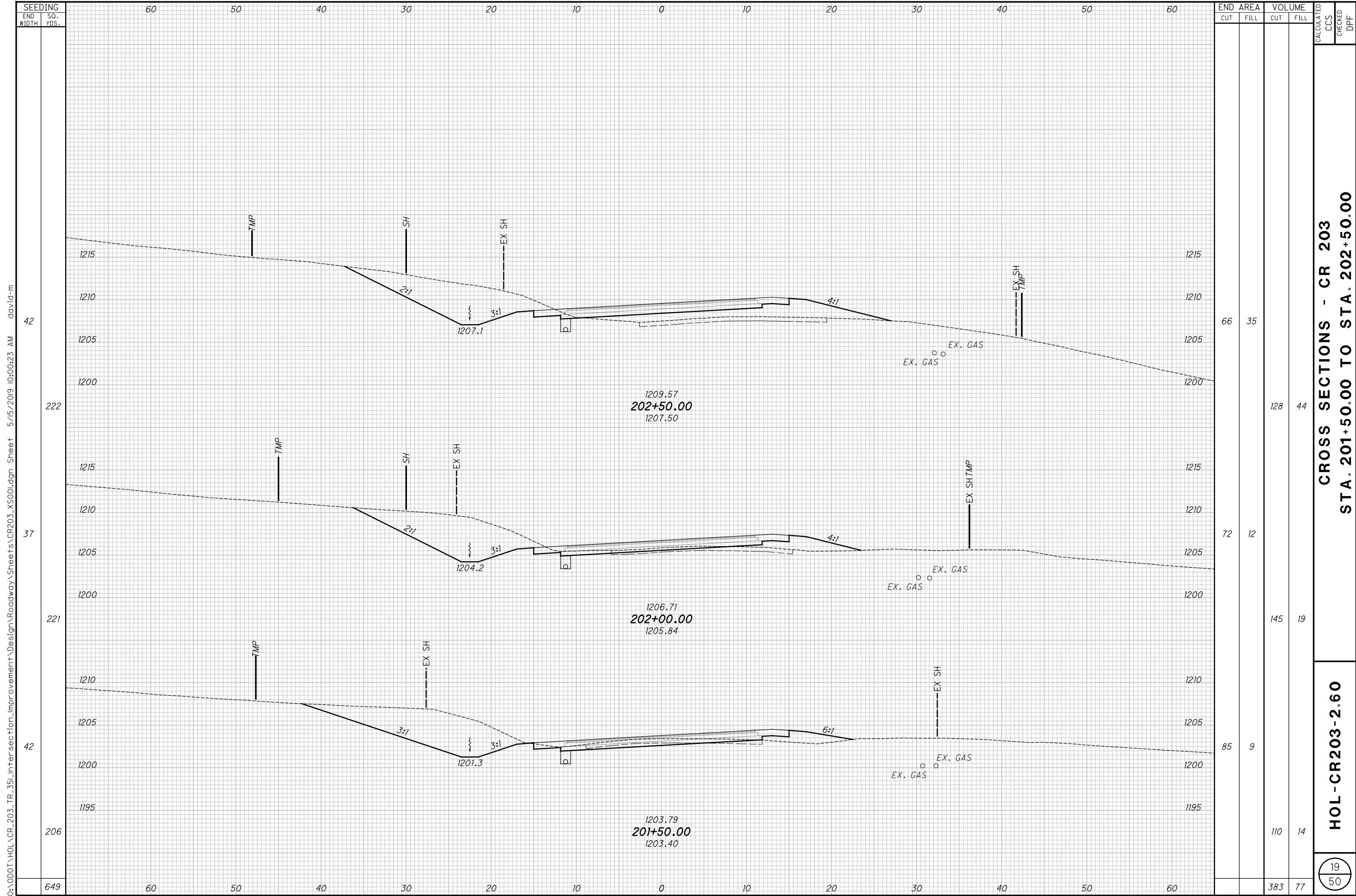


CROSS SECTIONS - CR 203
STA. 197+50.00 TO STA. 199+00.00

HOL - CR203 - 2.60

17
50





SEEDING
END SO.
WIDTH YDS.

60 50 40 30 20 10 0 10 20 30 40 50 60

42
222
37
221
42
206
649

1215
1210
1205
1200
1215
1210
1205
1200
1210
1205
1200
1195

1207.1
1209.57
1207.50
202+50.00
1204.2
1206.71
1205.84
202+00.00
1201.3
1203.79
1203.40
201+50.00

2:1
3:1
4:1
3:1
3:1
6:1

TMP
SH
EX SH
EX SH
EX SH
EX SH

EX. GAS
EX. GAS
EX. GAS
EX. GAS

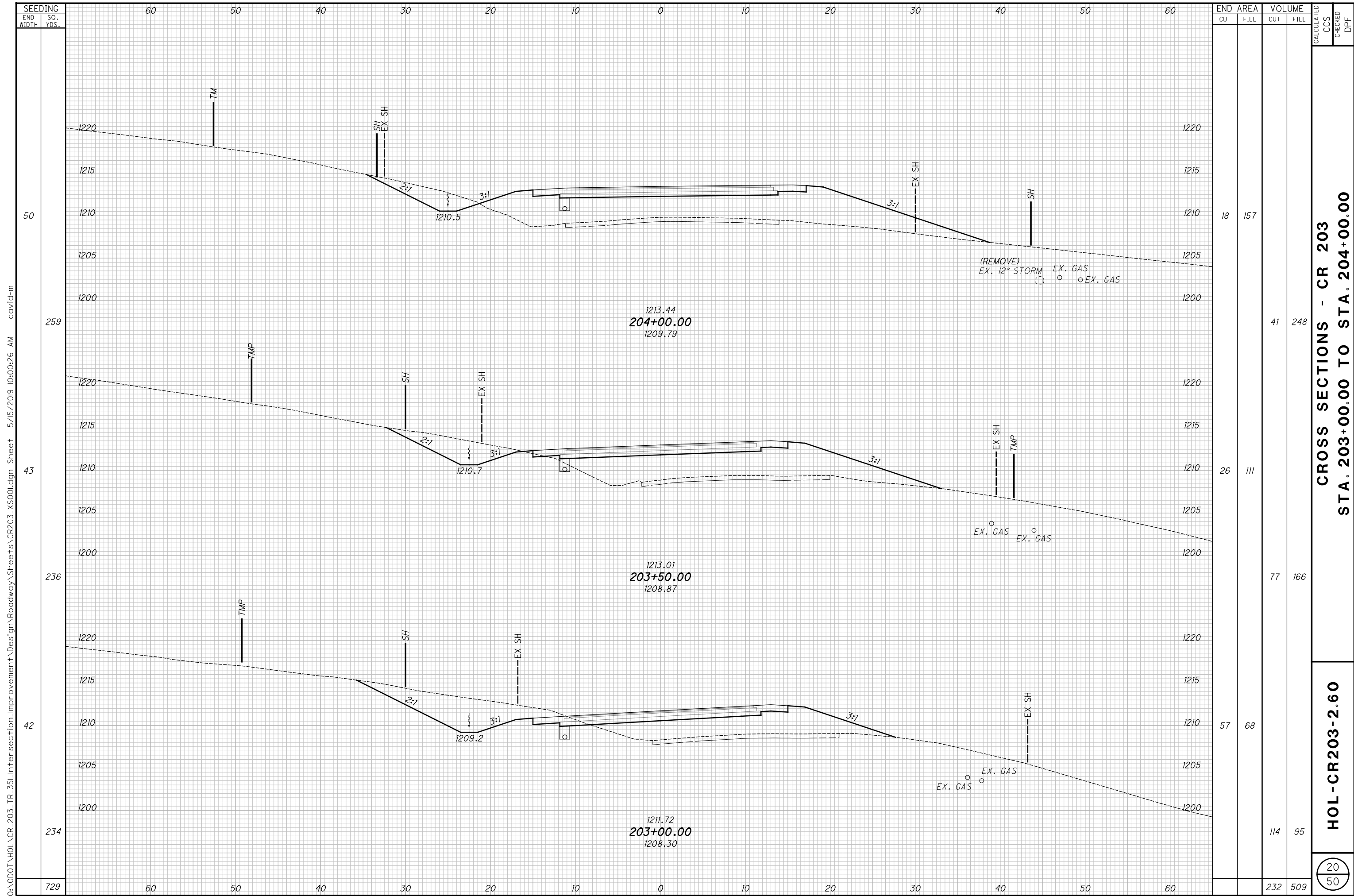
END AREA	VOLUME	CALCULATED	
		CUT	FILL
66	35	128	44
72	12	145	19
85	9	110	14
		383	77

CROSS SECTIONS - CR 203
STA. 201+50.00 TO STA. 202+50.00

HOL - CR203 - 2.60

19
50

O:\0D0T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:23 AM david-m

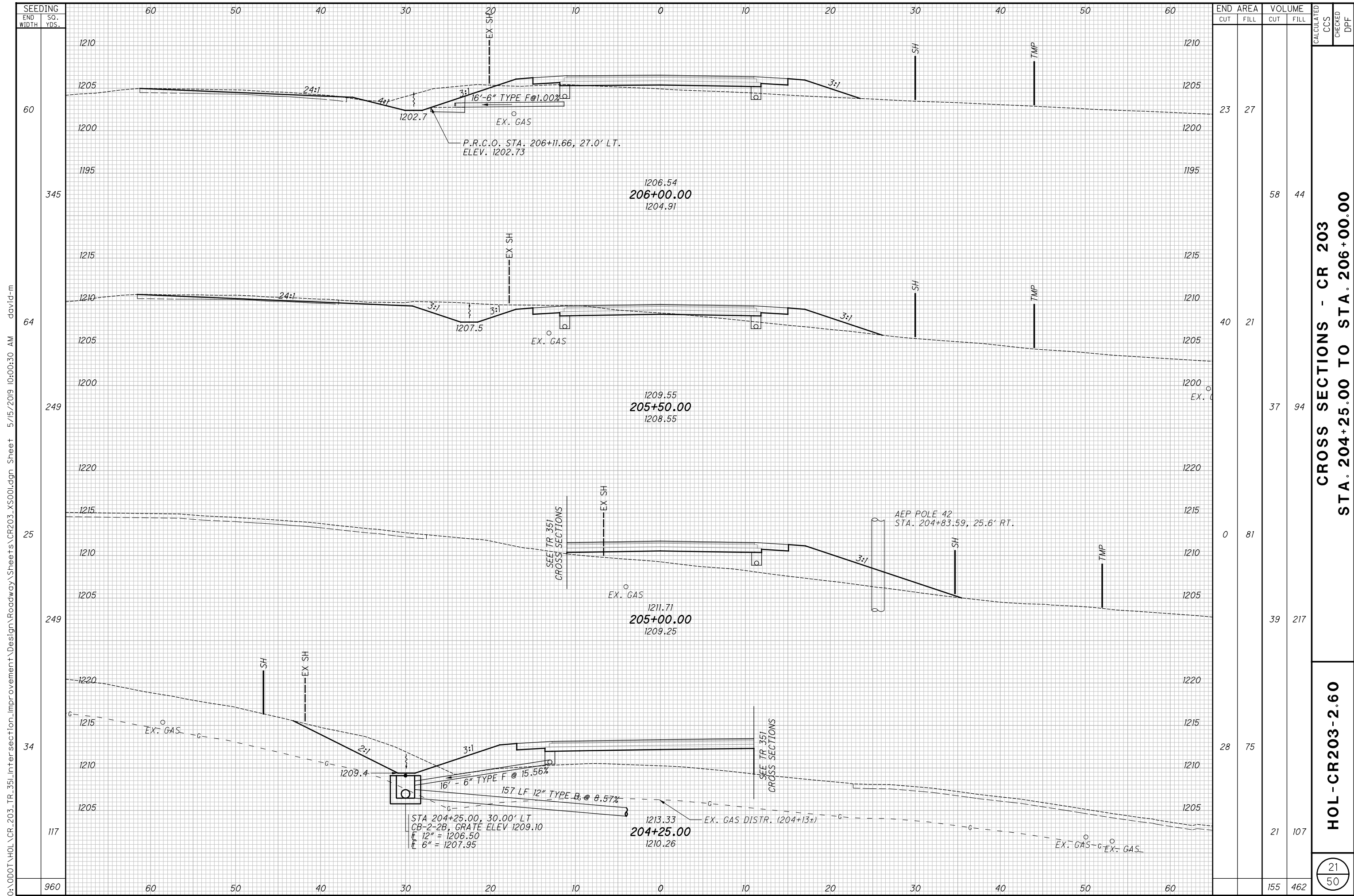


o:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:26 AM david-m

CROSS SECTIONS - CR 203
STA. 203+00.00 TO STA. 204+00.00

HOL - CR203 - 2.60

20
 50



SEEDING	
END WIDTH	SO. YDS.
60	60
345	345
64	64
249	249
25	25
249	249
34	34
117	117
960	960

END AREA		VOLUME		CALCULATED		
CUT	FILL	CUT	FILL	CCS	CHECKED	DPF
23	27	58	44			
40	21	37	94			
0	81	39	217			
28	75	21	107			
		155	462			

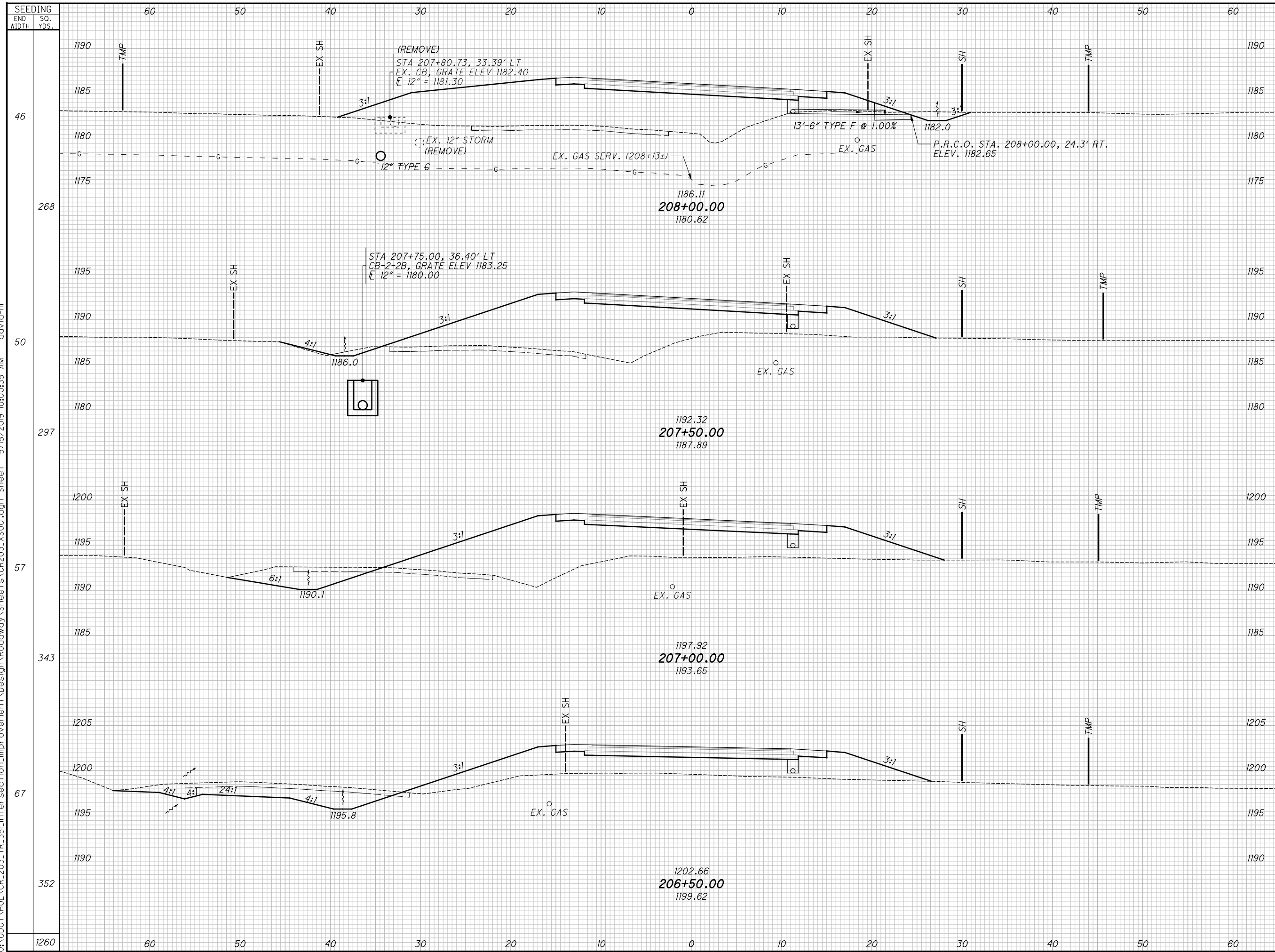
CROSS SECTIONS - CR 203
STA. 204+25.00 TO STA. 206+00.00

HOL - CR203 - 2.60

21
50

o:\0001\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:30 AM david-m

o:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:35 AM david-m

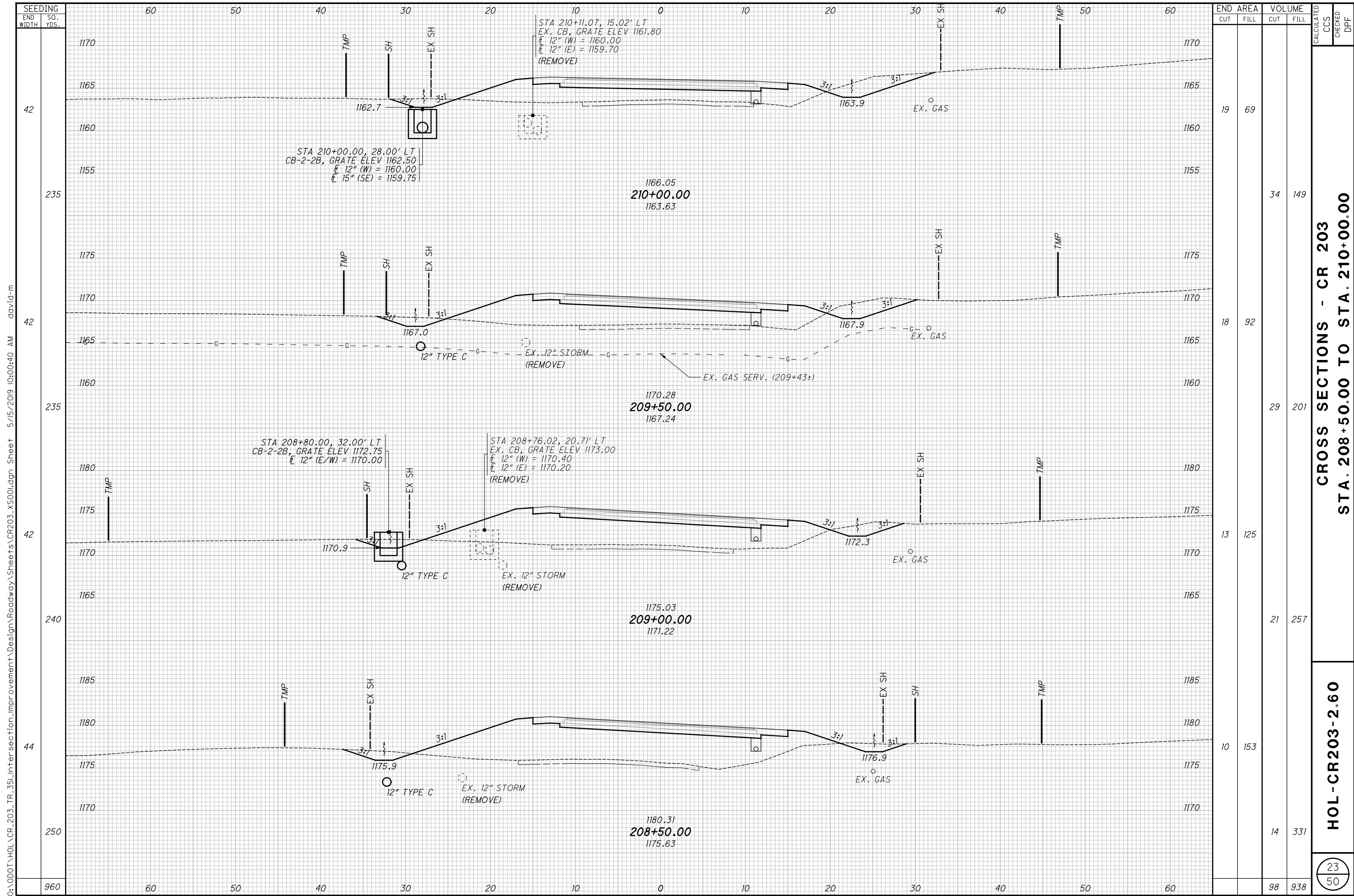


SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED CCS	CHECKED DPF
		CUT	FILL	CUT	FILL		
46	60			5	205		
268	50			6	378		
50	60			2	203		
297	50			25	378		
57	60			25	205		
343	60			64	296		
67	60			44	115		
352	60			62	131		
1260	60			157	1183		

CROSS SECTIONS - CR 203
STA. 206+50.00 TO STA. 208+00.00

HOL-CR203-2.60

22
50

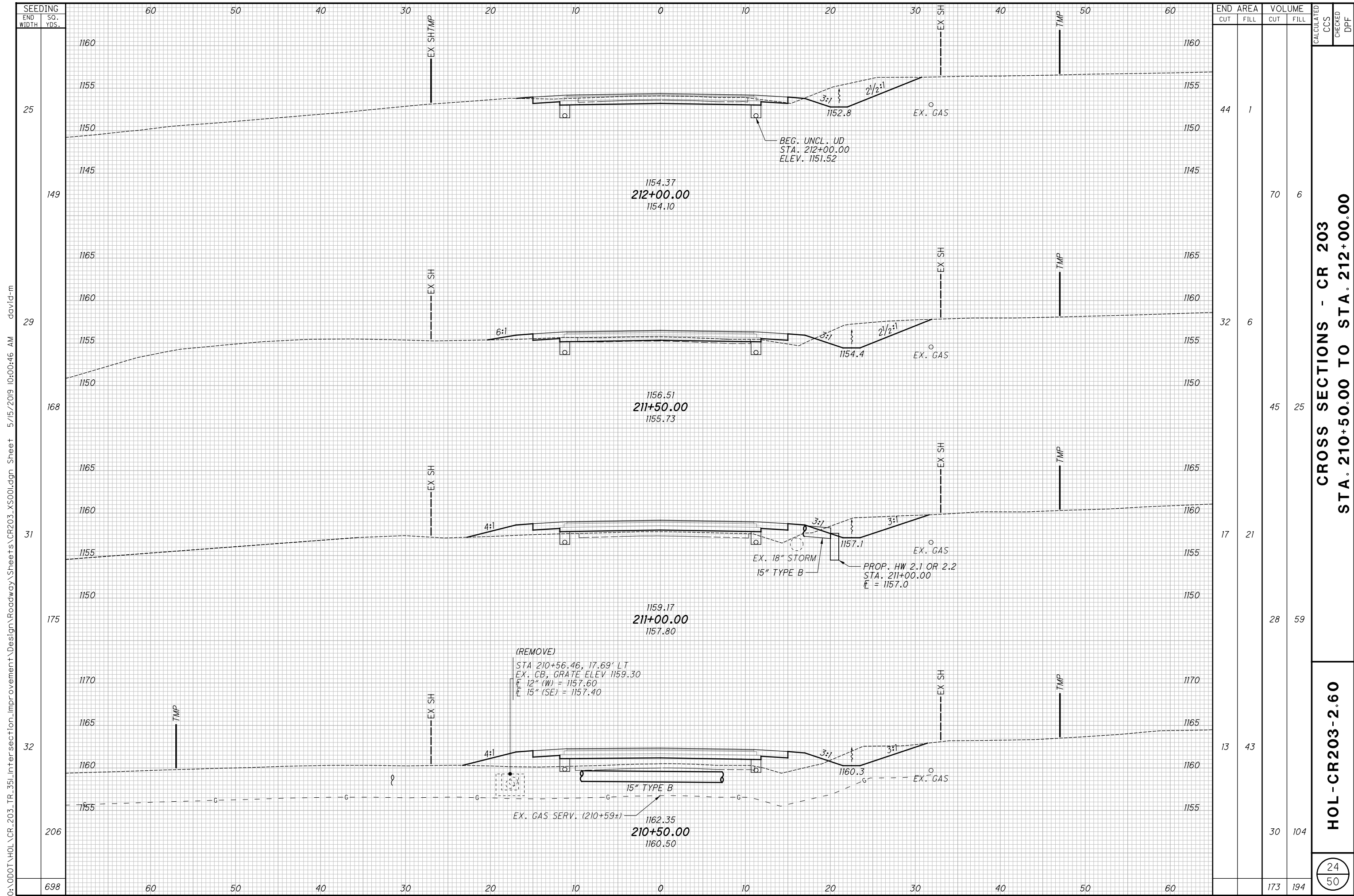


o:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:40 AM david-m

END STA	AREA		VOLUME		CALCULATED	CHECKED	DPF
	CUT	FILL	CUT	FILL			
210+00.00	19	69	34	149			
209+50.00	18	92	29	201			
209+00.00	13	125	21	257			
208+50.00	10	153	14	331			
TOTAL	50	399	98	938			

CROSS SECTIONS - CR 203
STA. 208+50.00 TO STA. 210+00.00

HOL-CR203-2.60



SEEDING	END	
	WIDTH	SO. YDS.
25	60	60
149	50	50
29	60	60
168	50	50
31	60	60
175	50	50
32	60	60
206	50	50
698	60	60

END	AREA		VOLUME		CALCULATED	CHECKED	DPF
	CUT	FILL	CUT	FILL			
25	44	1					
149			70	6			
29	32	6					
168			45	25			
31	17	21					
175			28	59			
32	13	43					
206			30	104			
698			173	194			

CROSS SECTIONS - CR 203
STA. 210+50.00 TO STA. 212+00.00

HOL - CR203 - 2.60

24
50

o:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:46 AM daVid-m



o:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:50 AM david-m

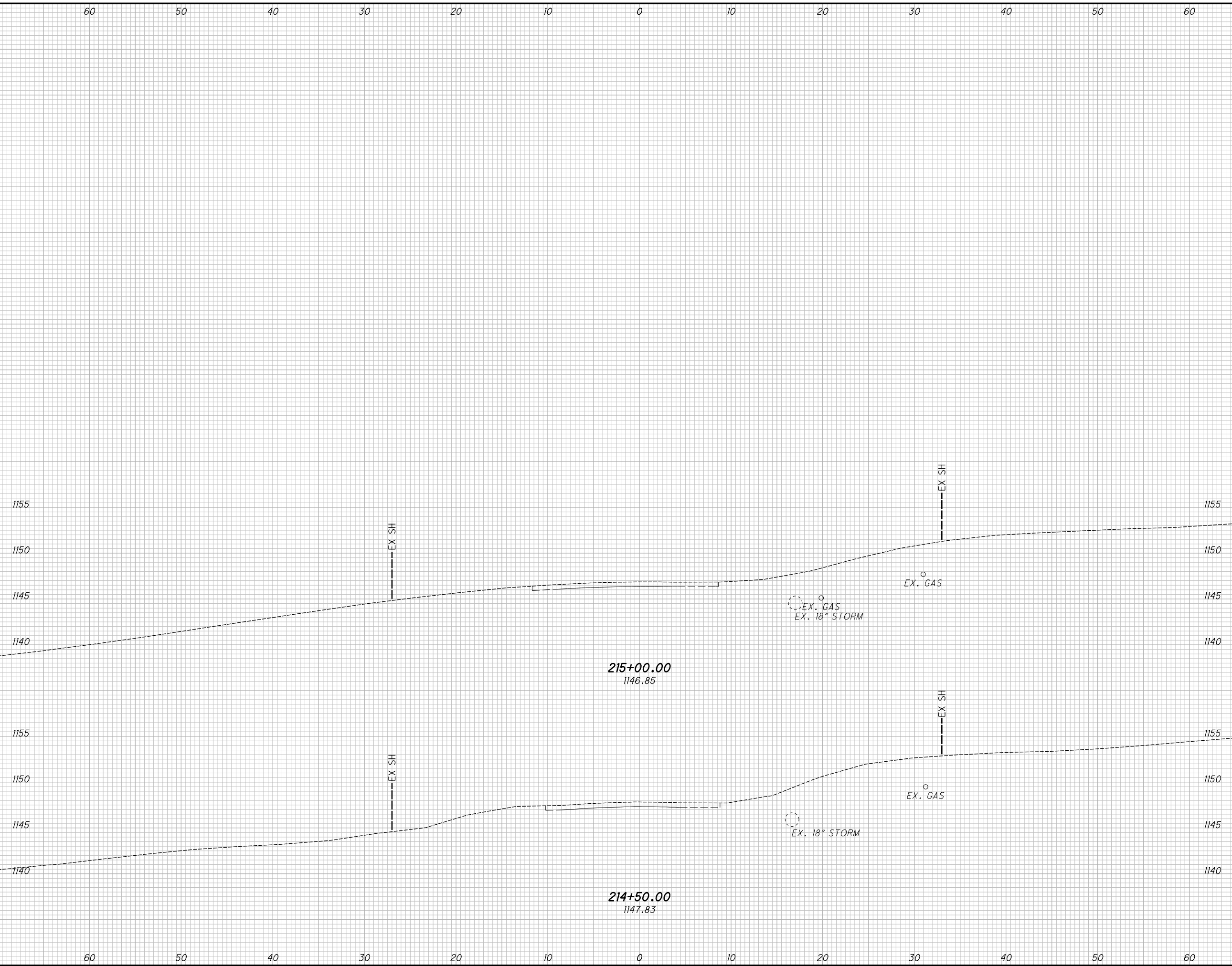
CROSS SECTIONS - CR 203
STA. 212+50.00 TO STA. 214+00.00

HOL - CR203 - 2.60

25
50

o:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS001.dgn Sheet 5/15/2019 10:00:55 AM david-m

SEEDING	
END WIDTH	SO. YDS.
0	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	0

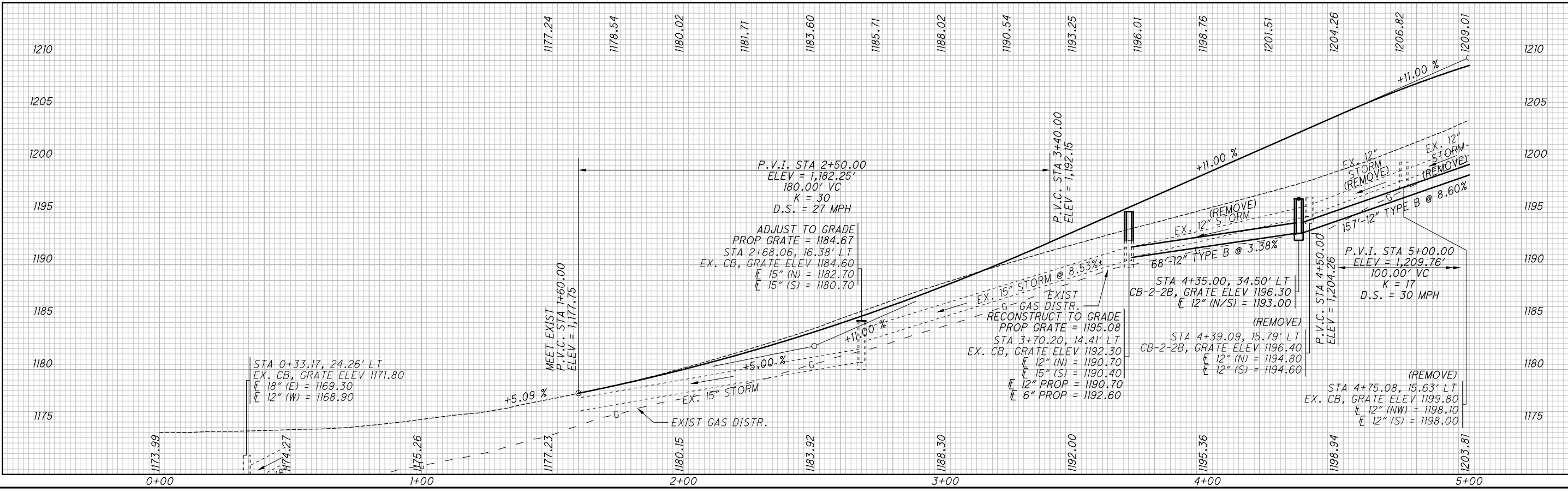
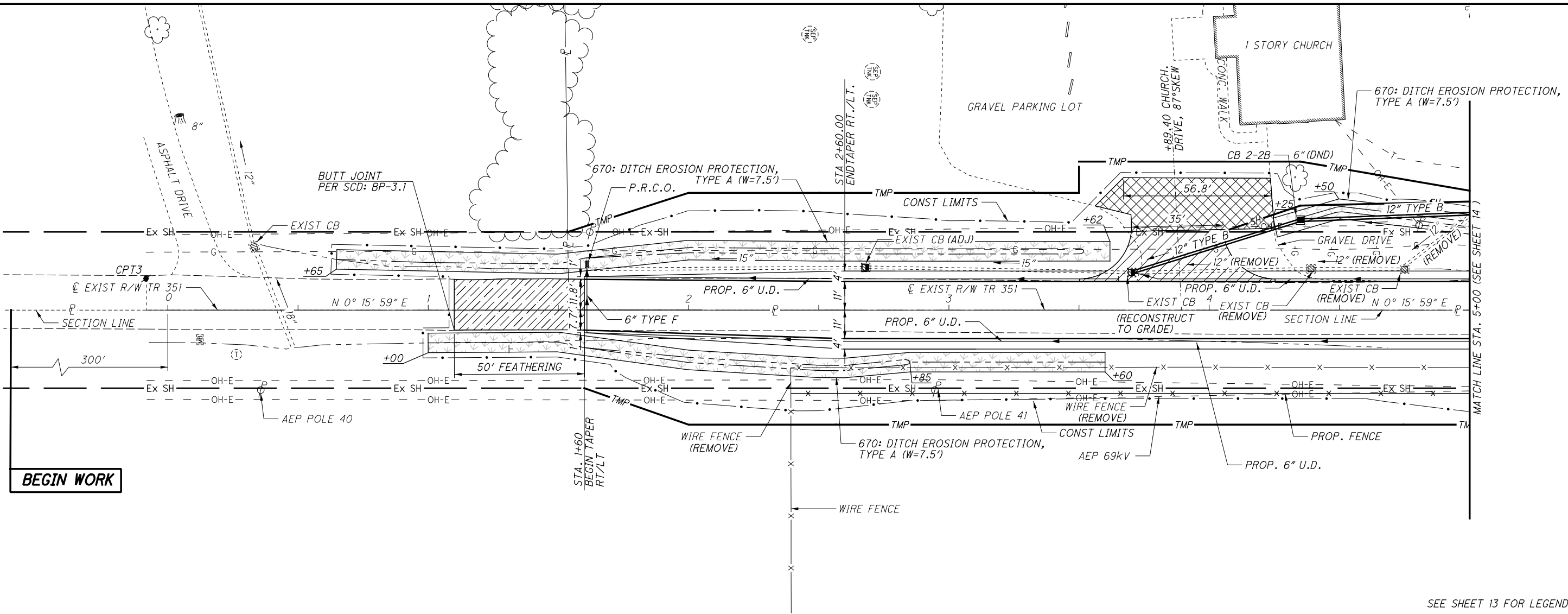
CALCULATED	
CHECKED	DPF

CROSS SECTIONS - CR 203
STA. 214+50.00 TO STA. 215+00.00

HOL - CR203 - 2.60

26
50

o:\00DOT\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_GPI0.dgn Sheet 5/15/2019 10:01:21 AM david-m



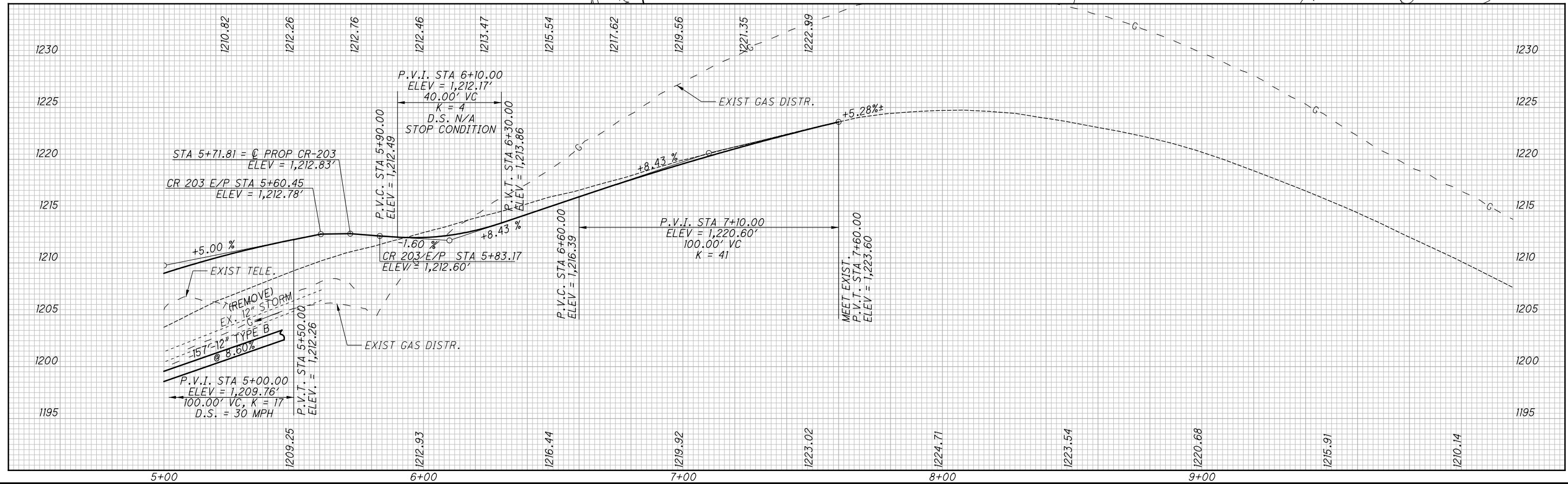
PLAN AND PROFILE - TR 351
STA. 0+00.00 TO STA. 5+00.00

HOL - CR203 - 2.60

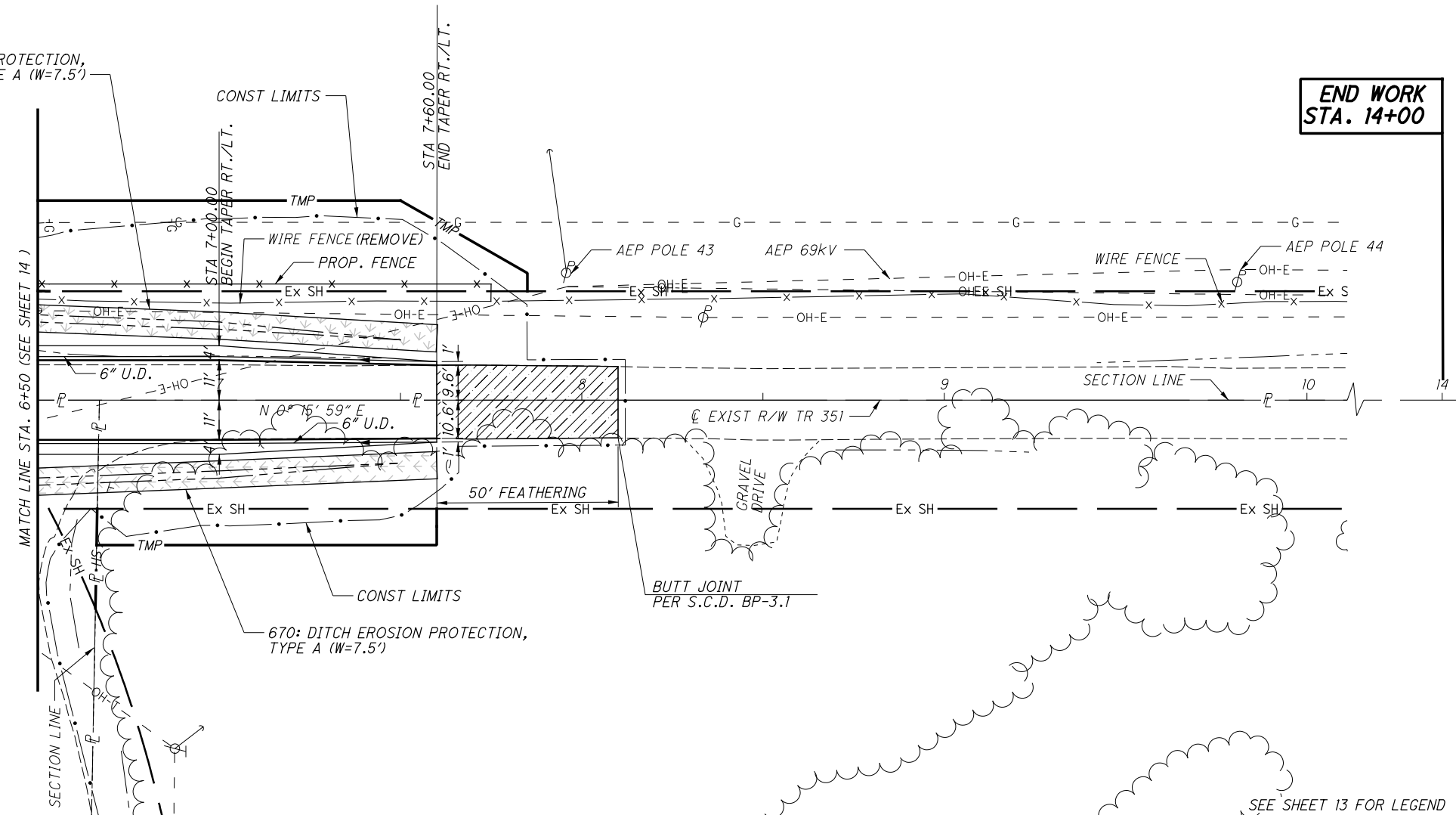
SEE SHEET 13 FOR LEGEND

BEGIN WORK

O:\000T\HOL_CR_203_TR_351_Intersection_Improvement\Design\Roadway\Sheets\CR203_GPI02.dgn Sheet 5/15/2019 10:01:41AM david-m



670: DITCH EROSION PROTECTION, TYPE A (W=7.5')



END WORK STA. 14+00

CALCULATED DPF CHECKED MLJ

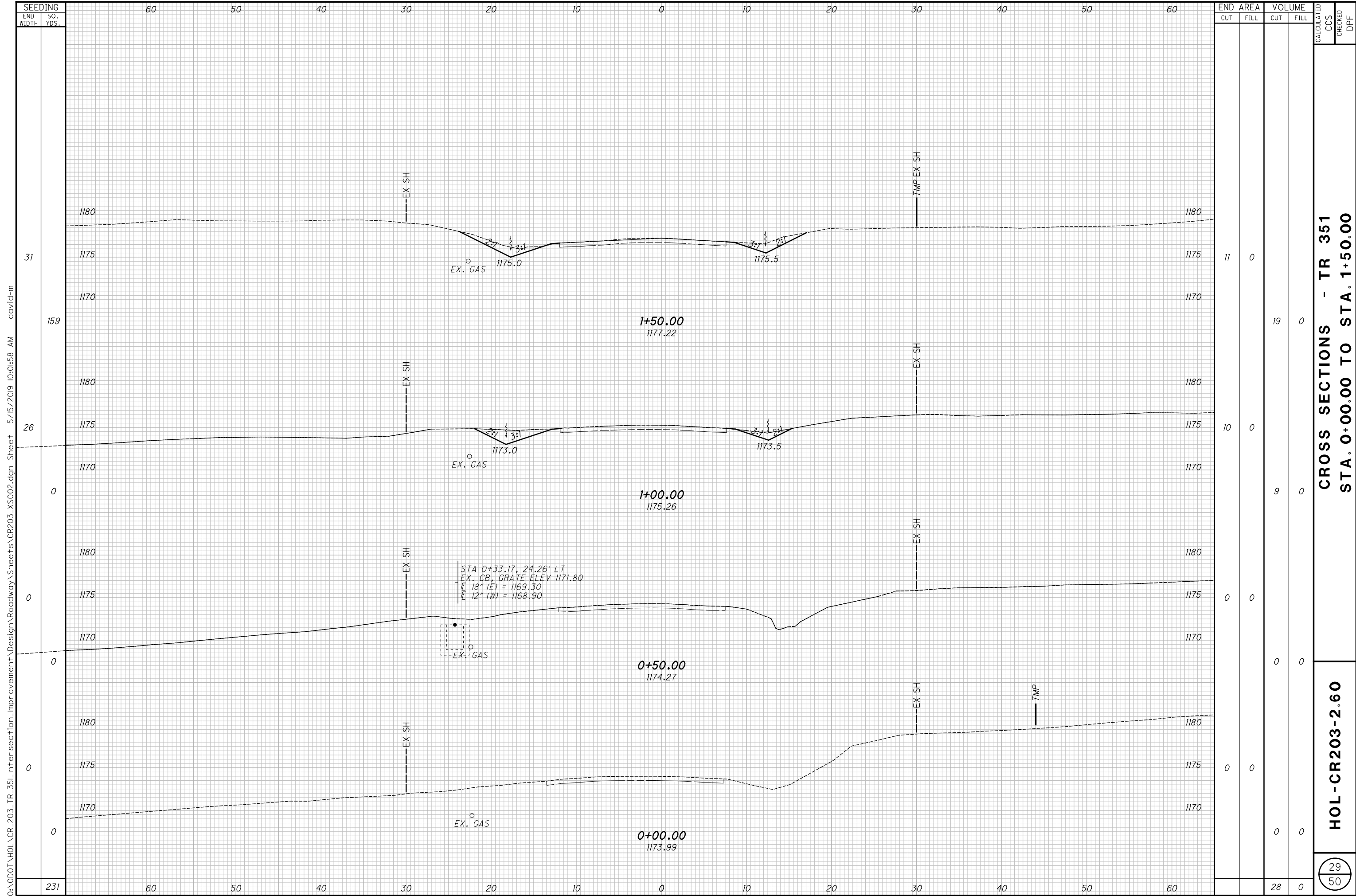
0 20 40 HORIZONTAL SCALE IN FEET

PLAN AND PROFILE - TR 351 STA. 6+50.00 TO STA. 9+36.09

HOL-CR203-2.60

28/50

SEE SHEET 13 FOR LEGEND



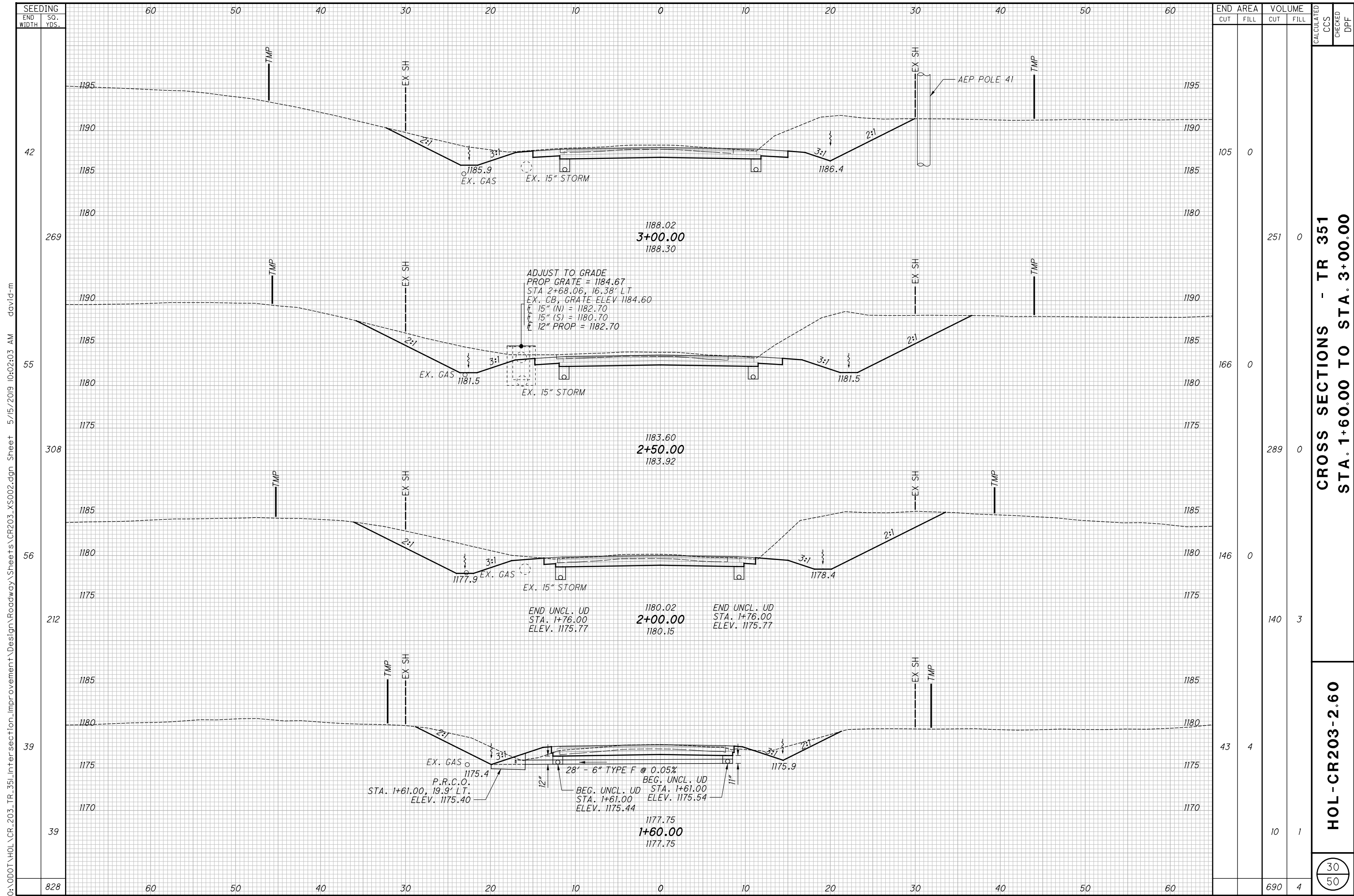
o:\000\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn Sheet 5/15/2019 10:01:58 AM david-m

CROSS SECTIONS - TR 351
STA. 0+00.00 TO STA. 1+50.00

HOL-CR203-2.60

CALCULATED
 CCS
 CHECKED
 DPF

29
 50



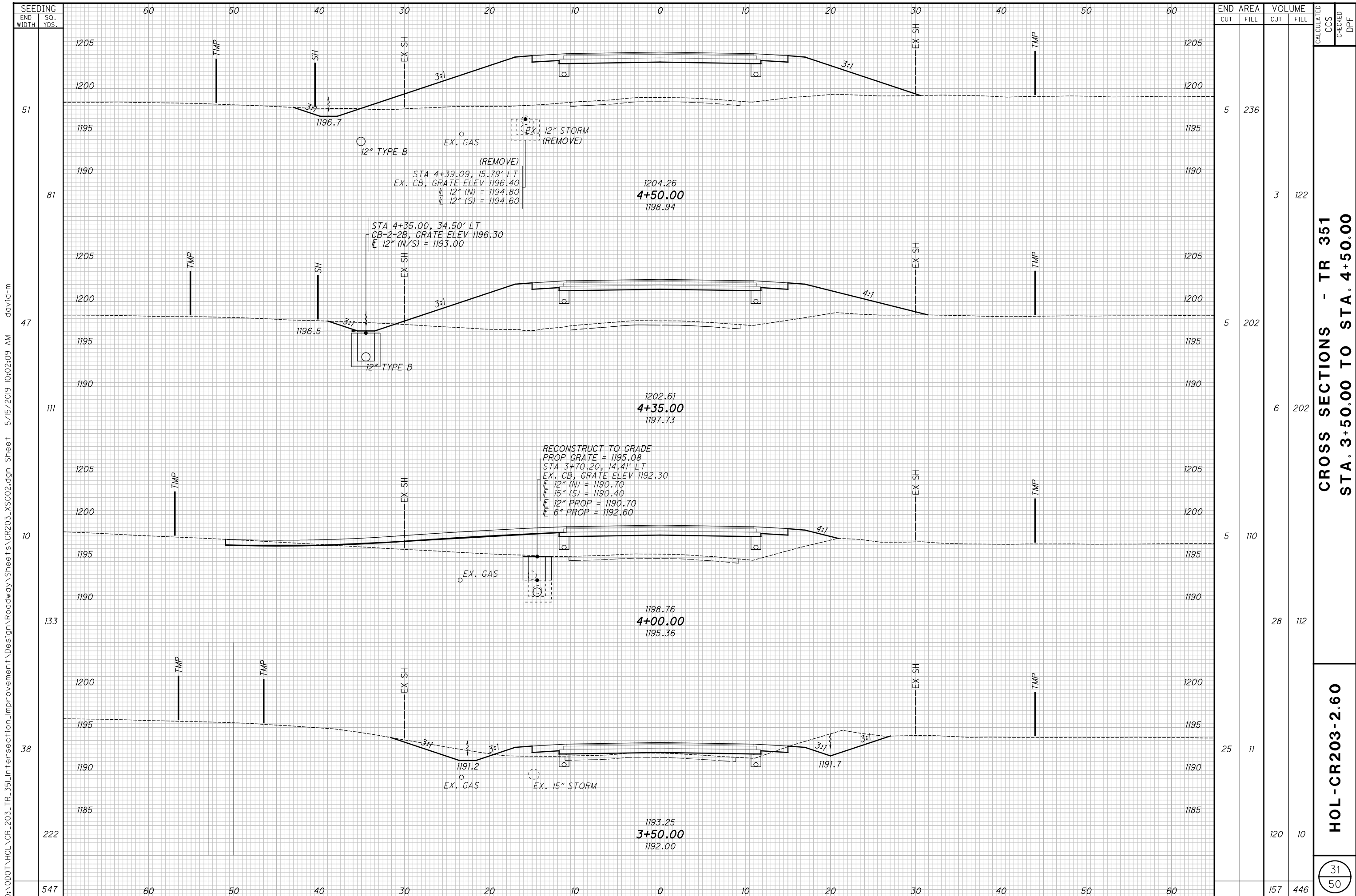
o:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn Sheet 5/15/2019 10:02:03 AM david-m

END AREA	VOLUME		CALCULATED	CHECKED	DPF
	CUT	FILL			
105	0	0			
166	0	0			
146	0	0			
140	3	0			
43	4	0			
690	4	10			

CROSS SECTIONS - TR 351
STA. 1+60.00 TO STA. 3+00.00

HOL-CR203-2.60

30
50



SEEDING
END WIDTH SO. YDS.

51
81
47
111
10
133
38
222
547

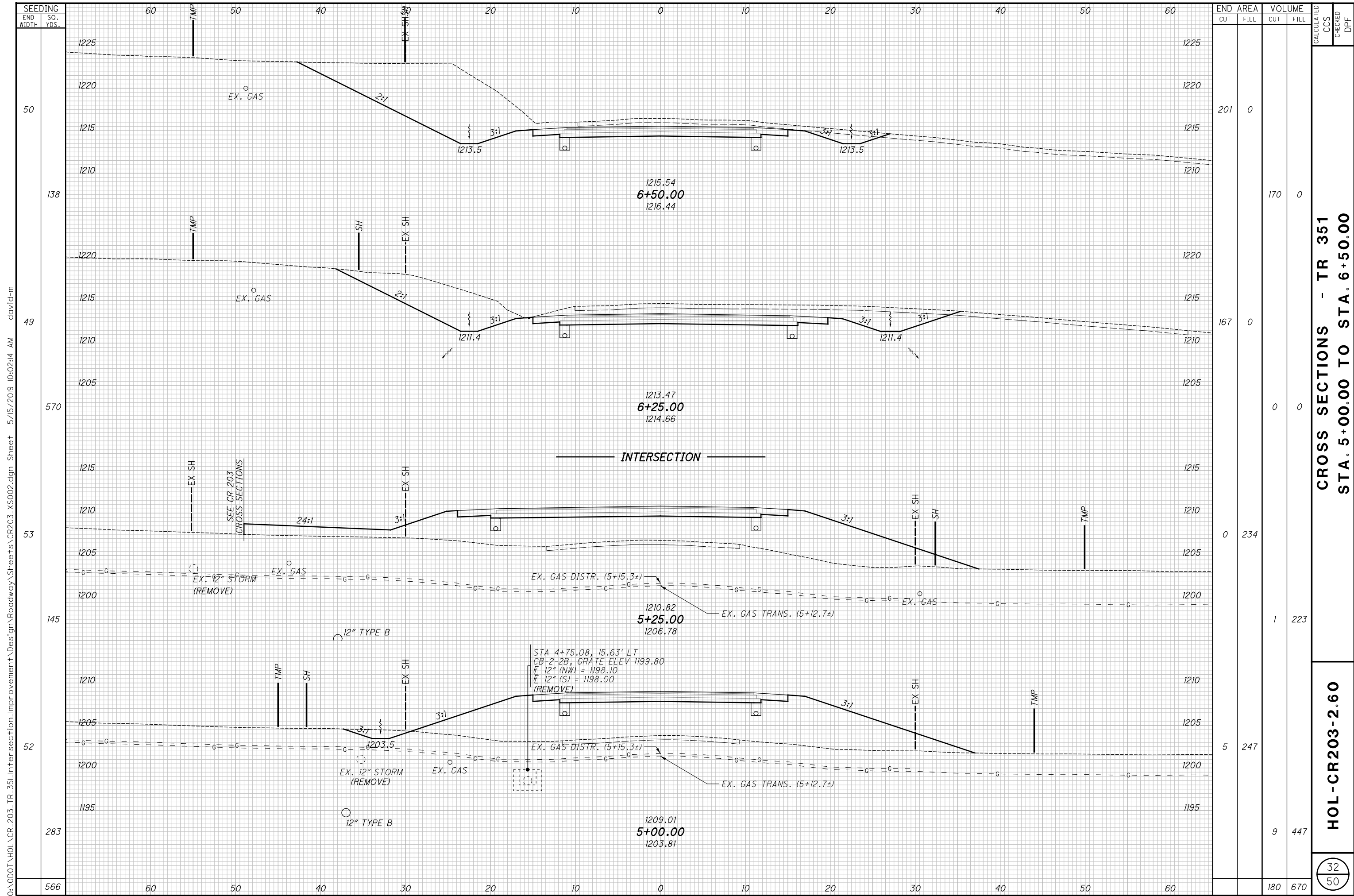
END AREA	VOLUME	CALCULATED		CHECKED	DPF
		CUT	FILL		
5	236				
3	122				
5	202				
6	202				
5	110				
28	112				
25	11				
	120	10			
	157	446			

CROSS SECTIONS - TR 351
STA. 3+50.00 TO STA. 4+50.00

HOL-CR203-2.60

31
50

O:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn Sheet 5/15/2019 10:02:09 AM david-m



END STA	AREA		VOLUME		CALCULATED	CHECKED	DPF
	CUT	FILL	CUT	FILL			
50	201	0					
138			170	0			
49	167	0					
570			0	0			
53	0	234					
145			1	223			
52	5	247					
283			9	447			
566			180	670			

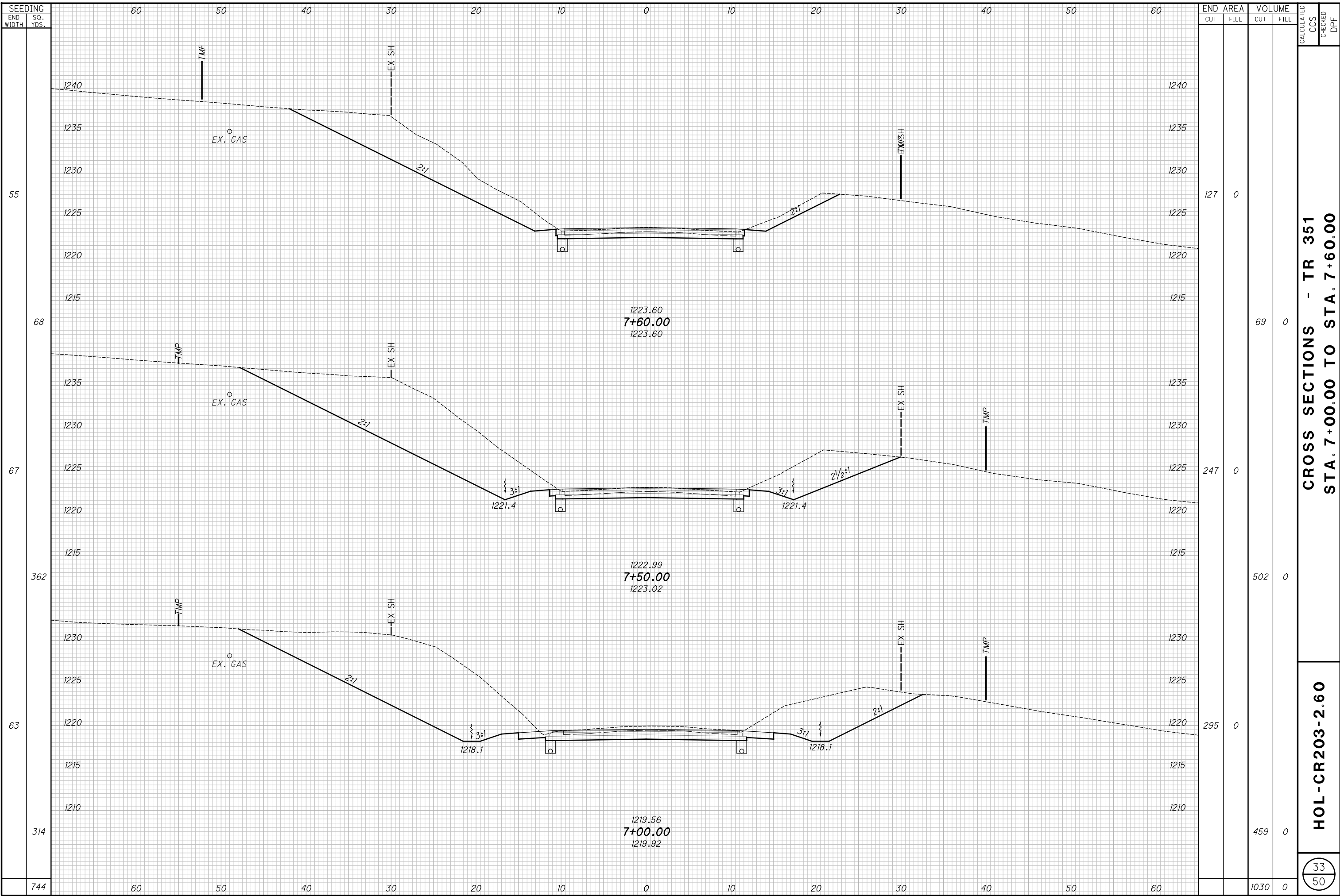
CROSS SECTIONS - TR 351
STA. 5+00.00 TO STA. 6+50.00

HOL-CR203-2.60

32
 50

o:\000T\HOL\CR_203_TR_351_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn_Sheet 5/15/2019 10:02:14 AM david-m

O:\0D0T\HOL\CR_203_TR_351_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn Sheet 5/15/2019 10:02:20 AM david-m



CROSS SECTIONS - TR 351
STA. 7+00.00 TO STA. 7+60.00

HOL-CR203-2.60

33
50

O:\0D0T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn_Sheet 5/15/2019 10:02:24 AM david-m

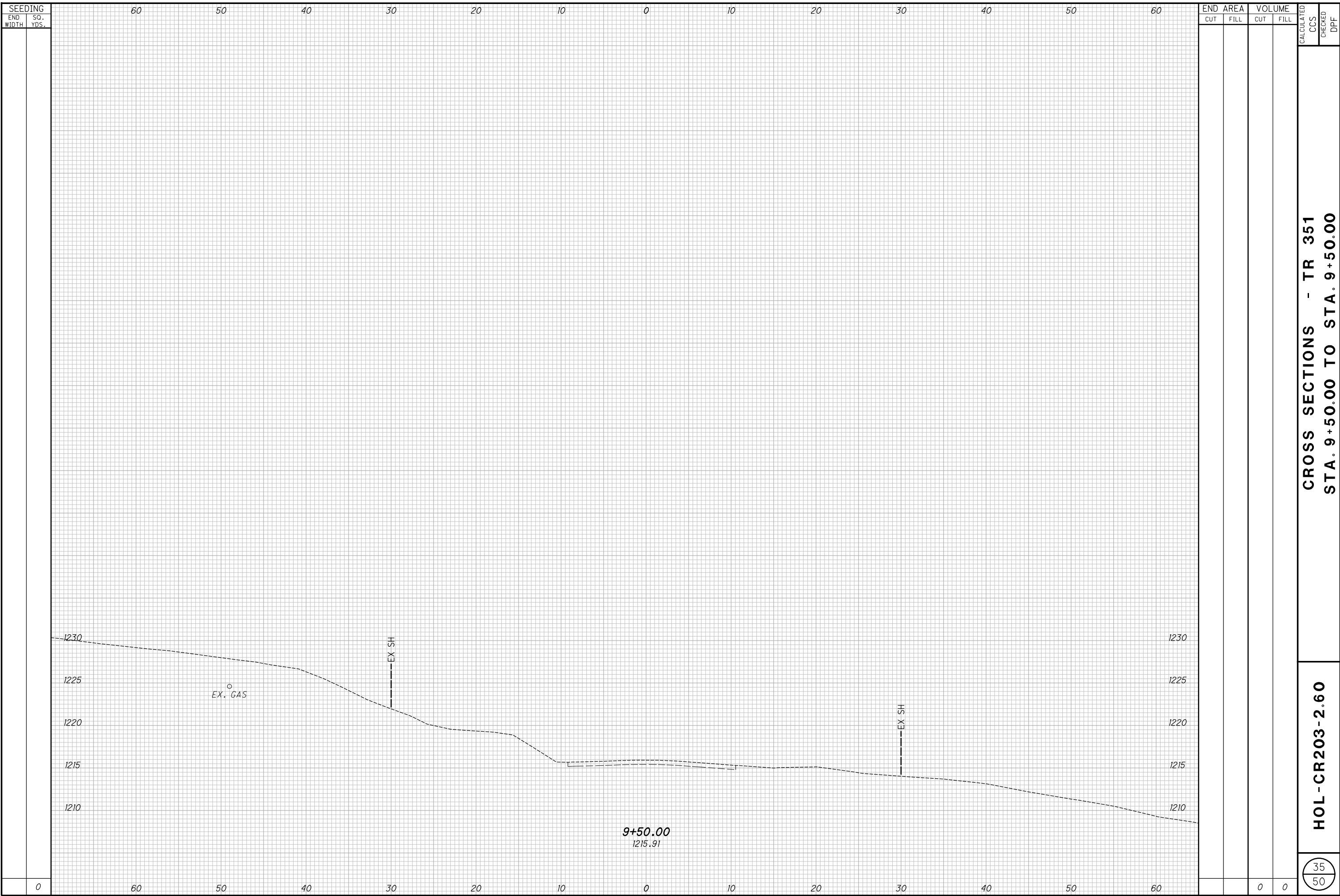


**CROSS SECTIONS - TR 351
STA. 8+00.00 TO STA. 9+00.00**

HOL-CR203-2.60

34
50

0:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_XS002.dgn_Sheet 5/15/2019 10:02:28 AM david-m



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	CCS	DPF

CROSS SECTIONS - TR 351
STA. 9+50.00 TO STA. 9+50.00

HOL-CR203-2.60

35
50

O:\000T\HOL\CR_203_TR_351_Intersection_Improvement\Design\Roadway\Sheets\CR203_6E001.dgn Sheet 5/15/2019 10:02:39 AM david-m

SUPERELEVATION TABLE

P.I. STATION 202+27.50

Dc = 5° 12' 31"

LEFT					CL CONTROL		RIGHT					REMARKS
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	
1194.85		-0.16	-0.0160	10.08	200+00.00	1195.01	10.56	-0.0160	-0.17		1194.84	
1194.92		-0.16	-0.0160	10.09	200+01.11	1195.08	10.56	-0.0160	-0.17		1194.91	BEGIN S.E. TRANSITION
1196.31		-0.17	-0.0160	10.32	200+25.00	1196.48	10.68	-0.0033	-0.04	190:1	1196.44	
1196.66		-0.17	-0.0160	10.38	200+31.11	1196.83	10.70	0.0000	0.00		1196.83	1/2 FLAT
1197.77		-0.17	-0.0160	10.56	200+50.00	1197.94	10.79	0.0101	0.11		1198.05	
1198.42		-0.17	-0.0160	10.67	200+61.11	1198.59	10.84	0.0160	0.17		1198.76	R.C.
1199.15	190:1	-0.25	-0.0233	10.81	200+75.00	1199.40	10.91	0.0233	0.25		1199.65	
1200.18		-0.37	-0.0337	11.00	200+94.71	1200.55	11.00	0.0337	0.37		1200.92	P.C.
1200.46		-0.40	-0.0365	11.00	201+00.00	1200.86	11.00	0.0365	0.40		1201.26	
1201.78		-0.55	-0.0496	11.00	201+25.00	1202.33	11.00	0.0496	0.55		1202.88	
1202.42	190:1	-0.62	-0.0560	11.00	201+37.11	1203.04	11.00	0.0560	0.62	190:1	1203.66	FULL S.E.
1203.17		-0.62	-0.0560	11.00	201+50.00	1203.79	11.00	0.0560	0.62		1204.41	
1204.63		-0.62	-0.0560	11.00	201+75.00	1205.25	11.00	0.0560	0.62		1205.87	
1206.09		-0.62	-0.0560	11.00	202+00.00	1206.71	11.00	0.0560	0.62		1207.33	
1207.56		-0.62	-0.0560	11.00	202+25.00	1208.18	11.00	0.0560	0.62		1208.80	
1208.95		-0.62	-0.0560	11.00	202+50.00	1209.57	11.00	0.0560	0.62		1210.19	
1210.13		-0.62	-0.0560	11.00	202+75.00	1210.75	11.00	0.0560	0.62		1211.37	
1211.10		-0.62	-0.0560	11.00	203+00.00	1211.72	11.00	0.0560	0.62		1212.34	
1211.62		-0.62	-0.0560	11.00	203+16.60	1212.24	11.00	0.0560	0.62		1212.86	FULL S.E.
1211.90	190:1	-0.57	-0.0516	11.00	203+25.00	1212.47	11.00	0.0516	0.57	190:1	1213.04	
1212.59		-0.42	-0.0384	11.00	203+50.00	1213.01	11.00	0.0384	0.42		1213.43	
1212.78		-0.37	-0.0337	11.00	203+59.00	1213.15	11.00	0.0337	0.37		1213.52	P.T.
1213.05		-0.28	-0.0253	11.00	203+75.00	1213.33	11.00	0.0253	0.28		1213.61	
1213.25	190:1	-0.18	-0.0160	11.00	203+92.60	1213.43	11.00	0.0160	0.18		1213.61	R.C.
1213.26		-0.18	-0.0160	11.00	204+00.00	1213.44	11.00	0.0121	0.13		1213.57	
1213.17		-0.18	-0.0160	11.00	204+22.60	1213.35	11.00	0.0000	0.00		1213.35	1/2 FLAT
1213.15		-0.18	-0.0160	11.00	204+25.00	1213.33	11.00	-0.0013	-0.01		1213.32	
1212.82		-0.18	-0.0160	11.00	204+50.00	1213.00	11.00	-0.0146	-0.16		1212.84	
1212.78		-0.18	-0.0160	11.00	204+52.60	1212.96	11.00	-0.0160	-0.18	190:1	1212.78	END S.E. TRANSITION
1212.28		-0.18	-0.0160	11.00	204+75.00	1212.46	11.00	-0.0160	-0.18		1212.28	

SUPERELEVATION TABLE

P.I. STATION 208+25.38

Dc = 5° 12' 31"

LEFT					CL CONTROL		RIGHT					REMARKS
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	
1207.97		-0.18	-0.0160	11.00	205+75.00	1208.15	11.00	-0.0160	-0.18		1207.97	
1207.56		-0.18	-0.0160	11.00	205+81.66	1207.74	11.00	-0.0160	-0.18		1207.56	BEGIN S.E. TRANSITION
1206.47	190:1	-0.07	-0.0062	11.00	206+00.00	1206.54	11.00	-0.0160	-0.18		1206.36	
1205.71		0.00	0.0000	11.00	206+11.66	1205.71	11.00	-0.0160	-0.18		1205.53	1/2 FLAT
1204.79		0.08	0.0071	11.00	206+25.00	1204.71	11.00	-0.0160	-0.18		1204.53	
1203.55		0.18	0.0160	11.00	206+41.66	1203.37	11.00	-0.0160	-0.18		1203.19	R.C.
1202.88		0.22	0.0204	11.00	206+50.00	1202.66	11.00	-0.0204	-0.22	190:1	1202.44	
1200.77		0.37	0.0335	11.00	206+75.00	1200.40	11.00	-0.0335	-0.37		1200.03	
1200.74		0.37	0.0337	11.00	206+75.26	1200.37	11.00	-0.0337	-0.37		1200.00	P.C.
1198.43		0.51	0.0467	11.00	207+00.00	1197.92	11.00	-0.0467	-0.51		1197.41	
1196.66	190:1	0.62	0.0560	11.00	207+17.66	1196.04	11.00	-0.0560	-0.62	190:1	1195.42	FULL S.E.
1195.85		0.62	0.0560	11.00	207+25.00	1195.23	11.00	-0.0560	-0.62		1194.61	
1192.94		0.62	0.0560	11.00	207+50.00	1192.32	11.00	-0.0560	-0.62		1191.70	
1189.82		0.62	0.0560	11.00	207+75.00	1189.20	11.00	-0.0560	-0.62		1188.58	
1186.73		0.62	0.0560	11.00	208+00.00	1186.11	11.00	-0.0560	-0.62		1185.49	
1183.76		0.62	0.0560	11.00	208+25.00	1183.14	11.00	-0.0560	-0.62		1182.52	
1180.93		0.62	0.0560	11.00	208+50.00	1180.31	11.00	-0.0560	-0.62		1179.69	
1178.23		0.62	0.0560	11.00	208+75.00	1177.61	11.00	-0.0560	-0.62		1176.99	
1175.65		0.62	0.0560	11.00	209+00.00	1175.03	11.00	-0.0560	-0.62		1174.41	
1173.21		0.62	0.0560	11.00	209+25.00	1172.59	11.00	-0.0560	-0.62		1171.97	
1172.62		0.62	0.0560	11.00	209+31.25	1172.00	11.00	-0.0560	-0.62		1171.38	FULL S.E.
1170.79	190:1	0.51	0.0461	11.00	209+50.00	1170.28	11.00	-0.0461	-0.51	190:1	1169.77	
1168.59		0.37	0.0337	11.00	209+73.65	1168.22	11.00	-0.0336	-0.37		1167.85	P.T.
1168.46		0.36	0.0330	11.00	209+75.00	1168.10	11.00	-0.0330	-0.36		1167.74	
1166.27		0.22	0.0198	11.00	210+00.00	1166.05	11.00	-0.0198	-0.22		1165.83	R.C.
1165.66		0.18	0.0160	11.00	210+07.25	1165.48	11.00	-0.0160	-0.18	190:1	1165.30	
1164.20		0.07	0.0065	11.00	210+25.00	1164.13	11.00	-0.0160	-0.18		1163.95	1/2 FLAT
1163.24		0.00	0.0000	11.00	210+37.25	1163.24	11.00	-0.0160	-0.18		1163.06	
1162.28		-0.07	-0.0068	11.00	210+50.00	1162.35	11.00	-0.0160	-0.18		1162.17	
1161.01	190:1	-0.18	-0.0160	11.00	210+67.25	1161.19	11.00	-0.0160	-0.18		1161.01	END S.E. TRANSITION
1160.51		-0.18	-0.0160	11.00	210+75.00	1160.69	11.00	-0.0160	-0.18		1160.51	

CALCULATED
DPF
CHECKED
MLJ

SUPERELEVATION TABLE
C.R. 203

HOL - CR203 - 2.60

O:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Roadway\Sheets\CR203_G001.dgn Sheet 5/15/2019 10:02:50 AM david-m



0 5 10 20
HORIZONTAL
SCALE IN FEET

CALCULATED
DPF
CHECKED
MLJ

INTERSECTION DETAILS
CR 203 - TR 351

HOL - CR203 - 2.60

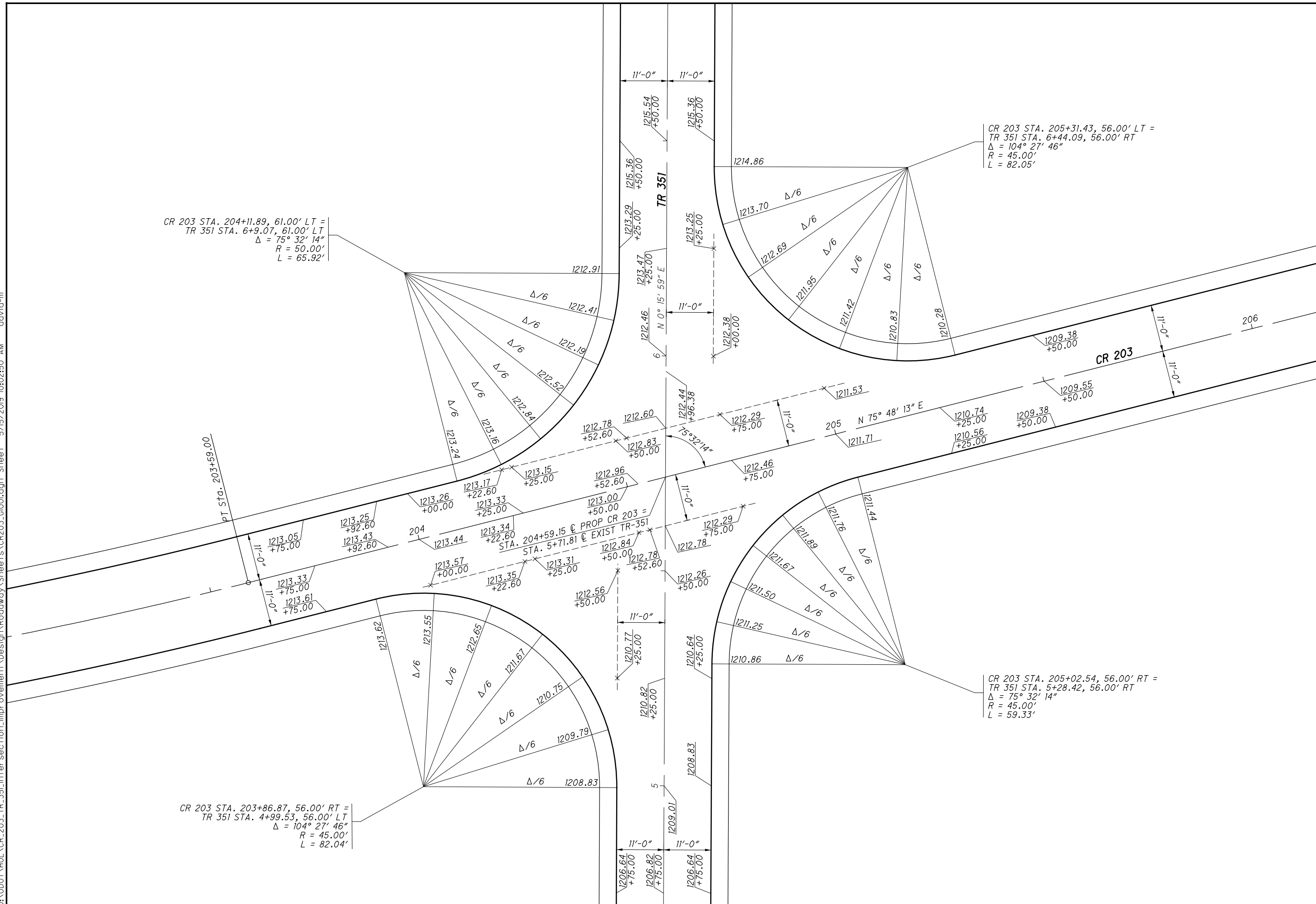
37
50

CR 203 STA. 204+11.89, 61.00' LT =
TR 351 STA. 6+9.07, 61.00' LT
 $\Delta = 75^\circ 32' 14''$
R = 50.00'
L = 65.92'

CR 203 STA. 203+86.87, 56.00' RT =
TR 351 STA. 4+99.53, 56.00' RT
 $\Delta = 104^\circ 27' 46''$
R = 45.00'
L = 82.04'

CR 203 STA. 205+31.43, 56.00' LT =
TR 351 STA. 6+44.09, 56.00' RT
 $\Delta = 104^\circ 27' 46''$
R = 45.00'
L = 82.05'

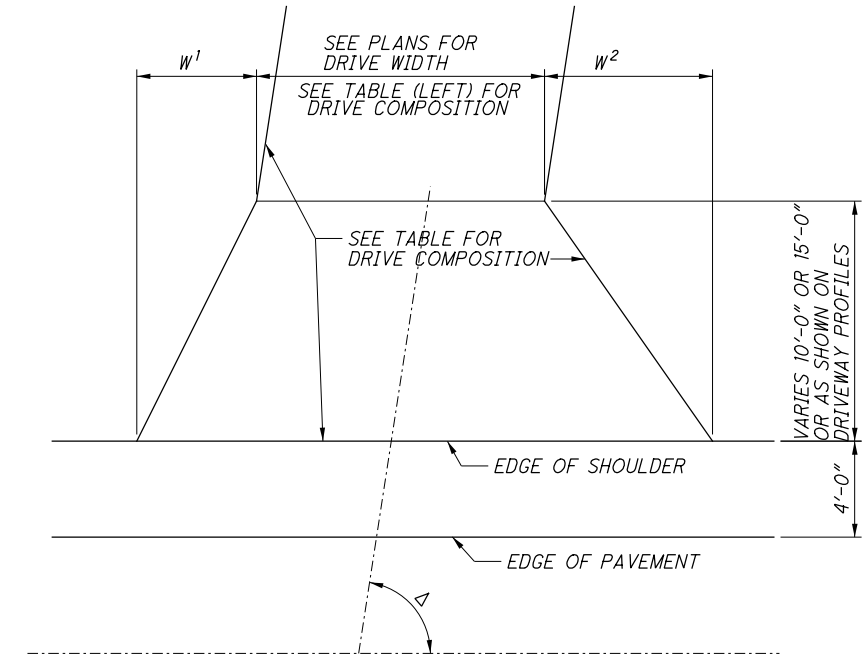
CR 203 STA. 205+02.54, 56.00' RT =
TR 351 STA. 5+28.42, 56.00' RT
 $\Delta = 75^\circ 32' 14''$
R = 45.00'
L = 59.33'



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DRIVE COMPOSITION			
USAGE	DEPTH	ITEM	DESCRIPTION
C1	1-1/4"	441	AC SURFACE COURSE, TYPE 1, (448), PG64-22, FOR DRIVEWAYS
	-	407	TACK COAT
	5"	301	ASPHALT CONCRETE BASE, (448), PG64-22, FOR DRIVEWAYS
R1	1-1/4"	441	AC SURFACE COURSE, TYPE 1, (448), PG64-22, FOR DRIVEWAYS
	-	407	TACK COAT
	3-1/2"	301	ASPHALT CONCRETE BASE, (448), PG64-22, FOR DRIVEWAYS
R2	6"	452	6" NON-REINFORCED PAVEMENT, CLASS QC1 MS

WIDTH TABLE		
DELTA	W1	W2
70°-80°	10.0	6.0
80°-90°	8.0	8.0



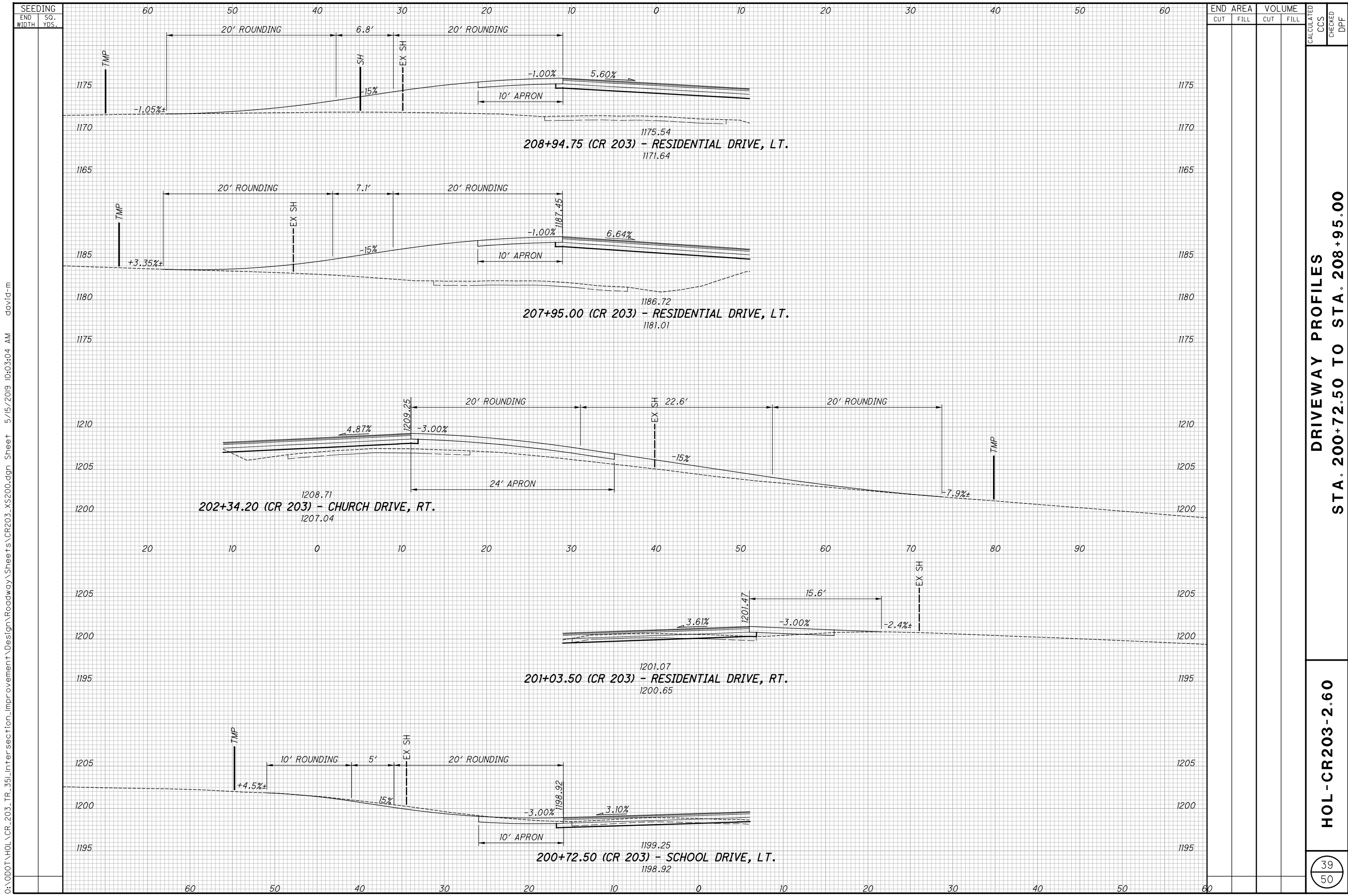
RESIDENTIAL APRON DETAILS

REF. NO.	SHEET NO.	STATION	SIDE	USAGE / COMPOSITION	CADD GENERATED AREA - APRON		CADD GENERATED AREA - DRIVE			204			
					SF	SF	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS) (1-1/4") (2**A/12*27)	R1		R2	C1		SUBGRADE COMPACTION
								407 TACK COAT	301 ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS) (3-1/2") (5**A/12*27)	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 MS	407 TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS) (1-1/4") (1-1/4**A/12*27)	
						CY	GAL	CY	SY	GAL	CY	SY	
CR 203													
DW1	13	200+72.50	LT	R1	208.6	350.4	2.2	3.7	6.0				62
DW2	13	201+03.50	RT	R2	190.0	61.7				28.0			28
DW3	14	202+34.20	RT	C1	497.2	463.8				6.4	3.7		107
DW4	15	207+95.00	LT	R1	200.5	443.8	2.5	4.3	7.0				72
DW5	15	208+94.74	LT	R2	199.8	443.5				71.5			71
DW6	15	210+34.20	LT	R1	208.6	350.4	2.2	3.7	6.0				62
DW7	15	211+90.44	LT	R1	184.7	102.9	1.1	1.9	3.1				32
DW8	16	212+80.00	LT	R1	200.1	117.7	1.2	2.1	3.4				35
TR 351													
DW9	27	3+89.40	LT	C1	898.6	1193.5				13.9	8.1		232
TOTALS CARRIED TO THE GENERAL SUMMARY							9	16	26	99	20	12	701

CALCULATED
DPF
CHECKED
MLJ

DRIVE DETAILS

HOL - CR203 - 2.60



o:\000T\HOL\CR_203_TR_35_Intersection_Improvement\Design\Roadway\Sheets\CR203_XS200.dgn_Sheet 5/15/2019 10:03:04 AM david-m

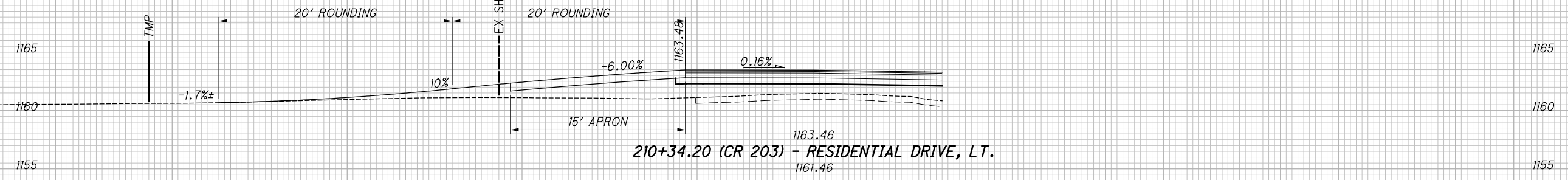
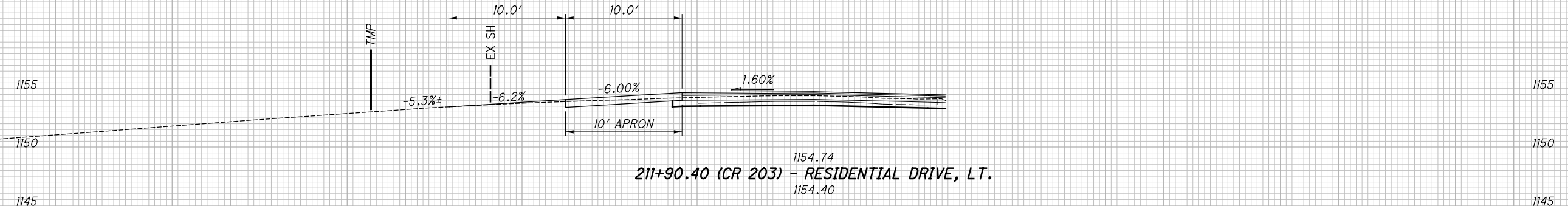
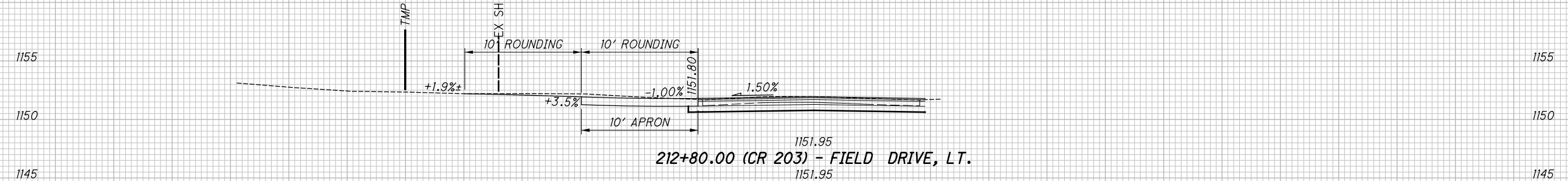
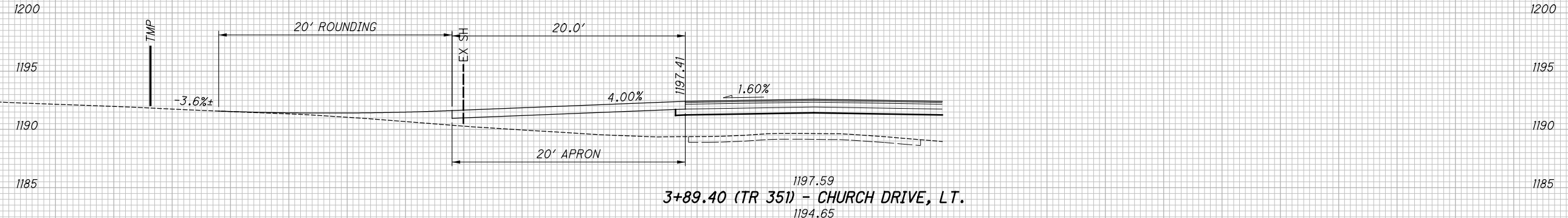
SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	CCS	DPF

DRIVEWAY PROFILES
STA. 200+72.50 TO STA. 208+95.00
HOL - CR203 - 2.60

SEEDING
END SO.
WIDTH YDS.

60 50 40 30 20 10 0 10 20 30 40 50 60

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
CHECKED
DPF



60 50 40 30 20 10 0 10 20 30 40 50 60

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DRIVEWAY PROFILES
STA. 210+34.20 TO STA. 3+89.40

HOL - CR203 - 2.60

40
50

SIGNING QUANTITIES

STATION	DESCRIPTION / LOCATION	CODE	SIZE (INCHES)	630				
				GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
				FT	EA	SQ FT	EA	EA
CR 203								
201+62	RT - DANGEROUS INTERSECTION						1	
201+75	RT - INTERSECTION AHEAD	W2-1-36	36 x 36	15.1		9.0		
	RT - REDUCED SPEED	W13-1P-18	18 x 18		2.25			
202+50	LT - SPEED LIMIT			12.8				1
204+00	LT - SCHOOL			13.3				1
205+30	LT - ROUTE MARKER			12.0				1
207+00	LT - INTERSECTION AHEAD	W2-1-36	36 x 36	16.6		9.0		
	LT - REDUCED SPEED	W13-1P-18	18 x 18		2.25			
209+86	LT - DANGEROUS INTERSECTION						1	
210+55	LT - PREMIER COTTAGES			11.0	11.0			1
210+74	RT - OBJECT MARKER			9.2				1
TR 351								
1+31	RT - DANGEROUS INTERSECTION						1	
4+00	RT - STOP AHEAD	W3-1-36	36 x 36	13.9	1	9.0		
5+00	LT - ROUTE MARKER			12.8				1
5+50	RT - STOP			12.0	1			1
5+93	LT - STOP			12.7	1			1
7+25	LT - STOP AHEAD	W3-1-36	36 x 36	11.0	1	9.0		
10+53	LT - DANGEROUS INTERSECTION						1	
11+18	LT - STOP AHEAD						1	
TOTALS CARRIED TO GENERAL SUMMARY				163.4	4	40.5	5	8

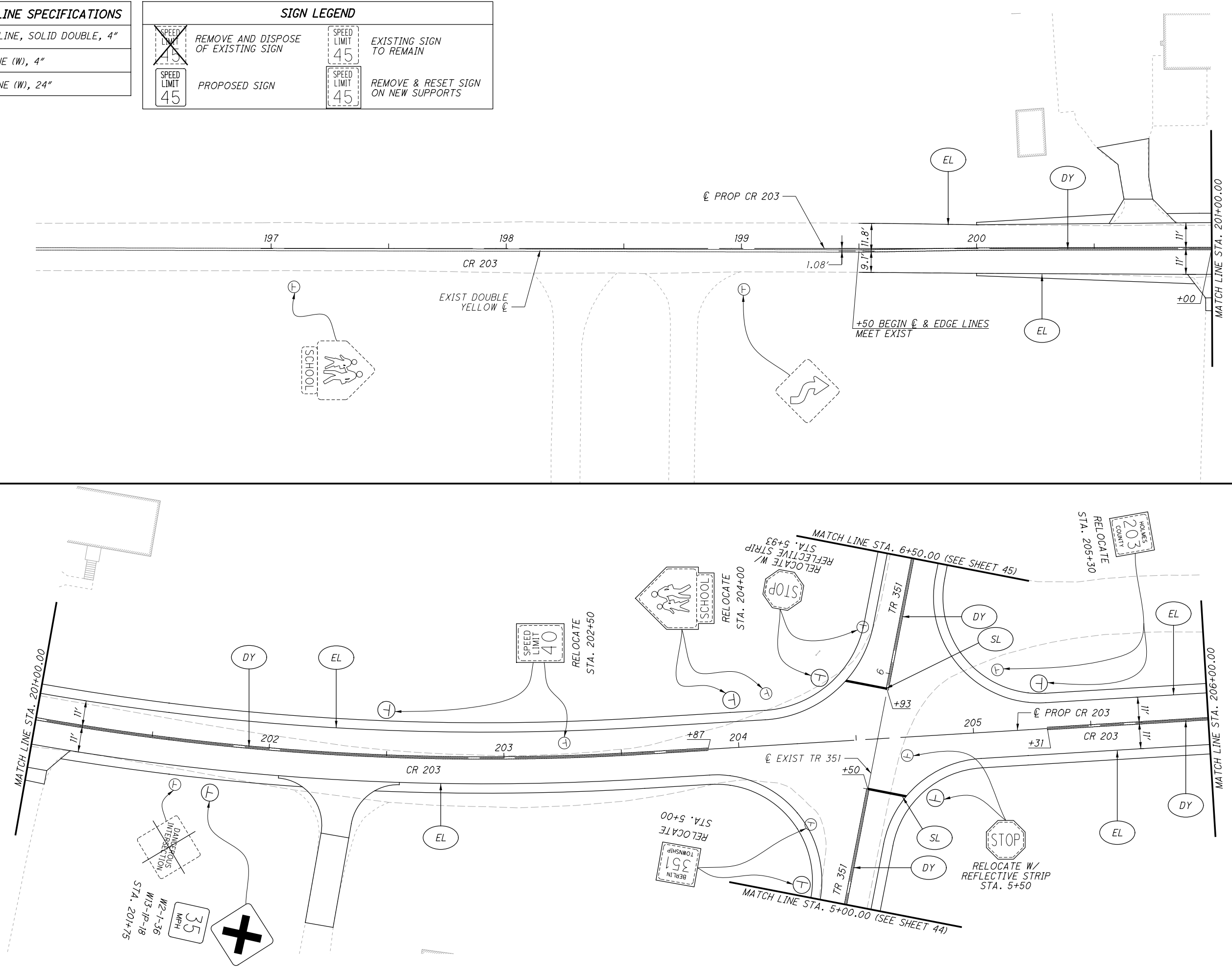
PAVEMENT MARKING QUANTITIES

STATION	SIDE	LENGTH	644			
			CENTER LINE, SOLID DOUBLE, 4"	EDGE LINE (W), 4"	STOP LINE (W) (24")	
			MILE	MILE	FT	
CR 203						
199+50.00		213+50.00	℄	1400	0.27	
199+50.00		213+50.00	LT	1400		0.27
199+50.00		213+50.00	RT	1400		0.27
TR 351						
-3+00.00		14+00.00	℄	1700	0.33	
-3+00.00		14+00.00	LT	1700		0.33
-3+00.00		14+00.00	RT	1700		0.33
5+50.00			RT			18.00
5+93.50			LT			16.50
TOTALS CARRIED TO GENERAL SUMMARY			0.60	1.20	35	

O:\ODOT\HOL\CR_203_TR_351_Intersection_Improvement\Design\Traffic\Sheets\CR203_IP001.dgn Sheet 5/15/2019 10:03:29 AM david-m

ITEM	ODOT LINE SPECIFICATIONS
(DY)	CENTER LINE, SOLID DOUBLE, 4"
(EL)	EDGE LINE (W), 4"
(SL)	STOP LINE (W), 24"

SIGN LEGEND	
	REMOVE AND DISPOSE OF EXISTING SIGN
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	REMOVE & RESET SIGN ON NEW SUPPORTS



CALCULATED
CCS
CHECKED
DPF

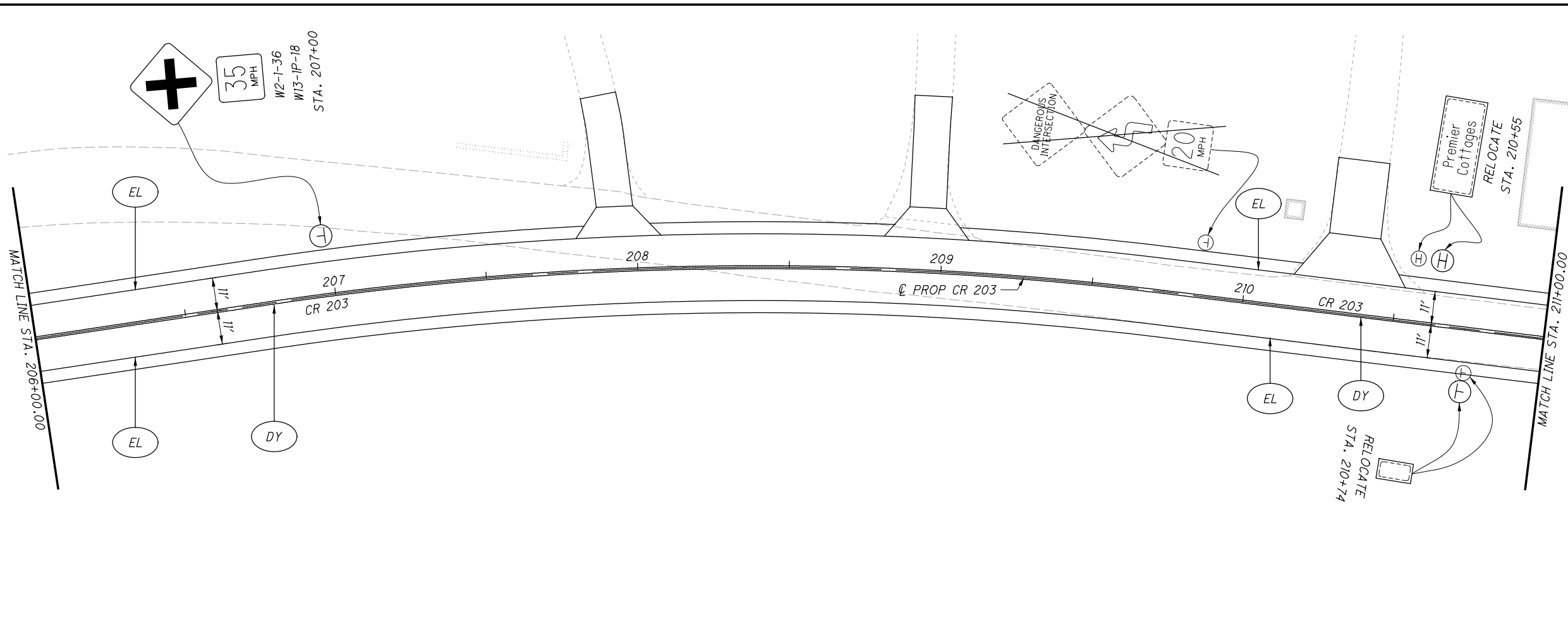
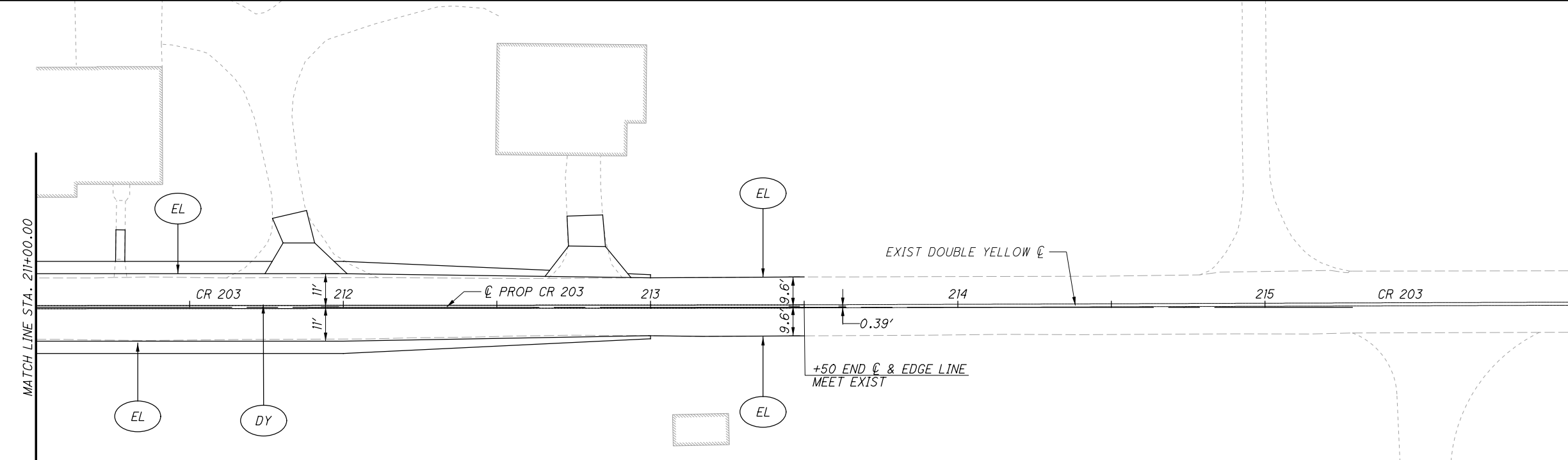
0 20 40
HORIZONTAL
SCALE IN FEET

TRAFFIC CONTROL PLAN - CR 203
STA. 197+00.00 TO STA. 206+00.00

HOL-CR203-2.60

42
50

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TRAFFIC CONTROL PLAN - CR 203
STA. 206+00.00 TO STA. 215+00.00

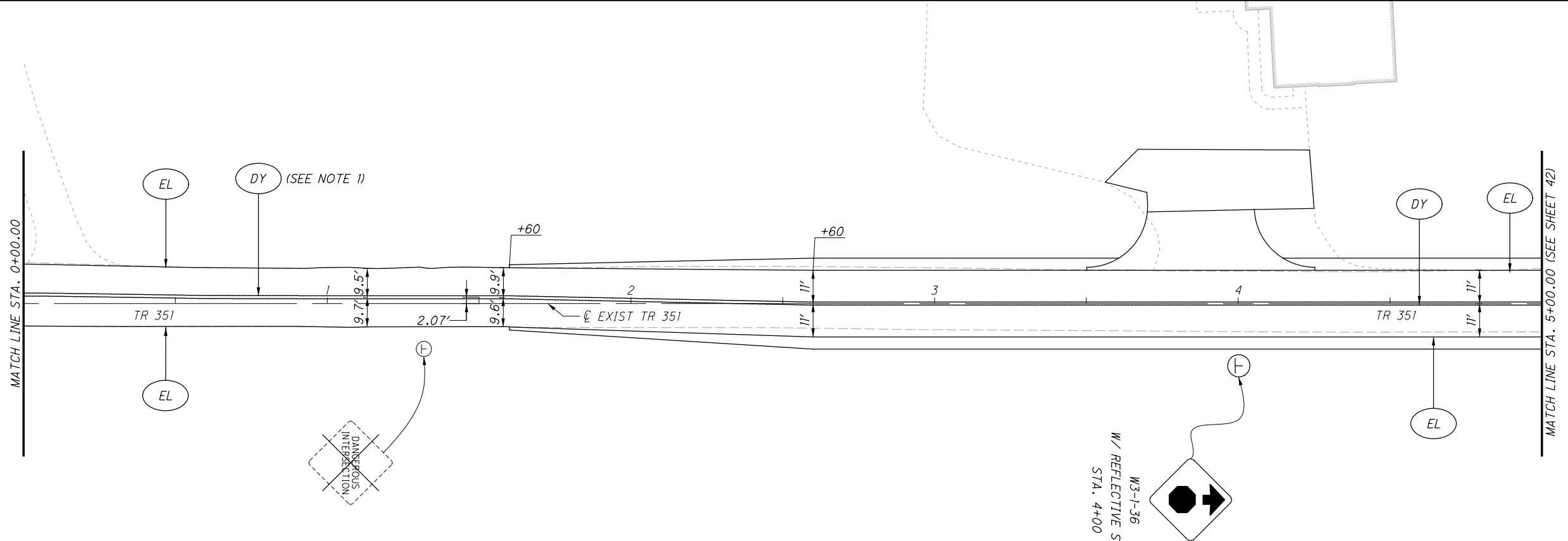
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CALCULATED
 CCS
 CHECKED
 DPF

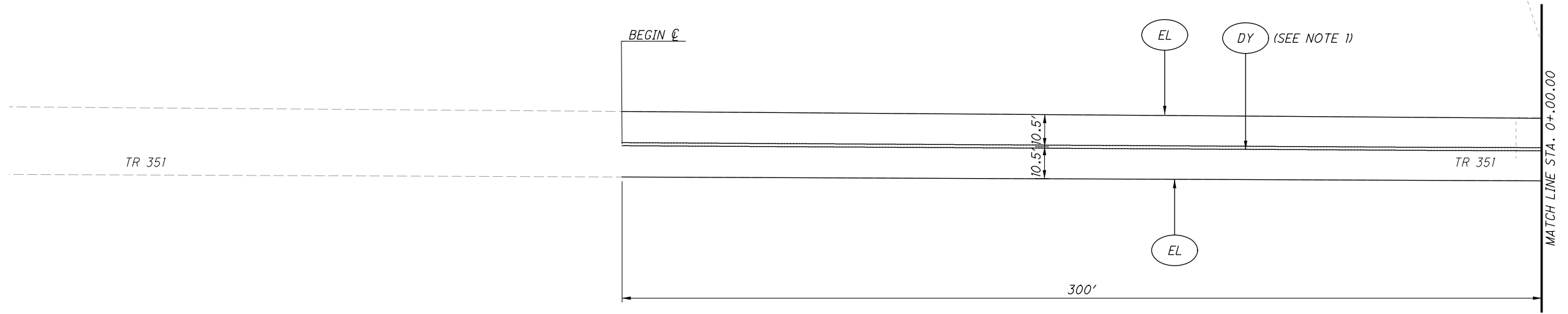
0 20 40
 HORIZONTAL
 SCALE IN FEET

SEE SHEET 42 FOR LEGEND

O:\000T\HOL\CR_203_TR_351\Intersection_Improvement\Design\Traffic\Sheets\CR203_IP003.dgn Sheet 5/15/2019 10:03:41 AM david-m



NOTE 1:
 PLACE CENTER LINE, DOUBLE YELLOW BACK
 OF STA. 1+60 IN THE PHYSICAL CENTER OF
 PAVEMENT
 SEE SHEET 42 FOR LEGEND



CALCULATED	CCS	CHECKED	DPF

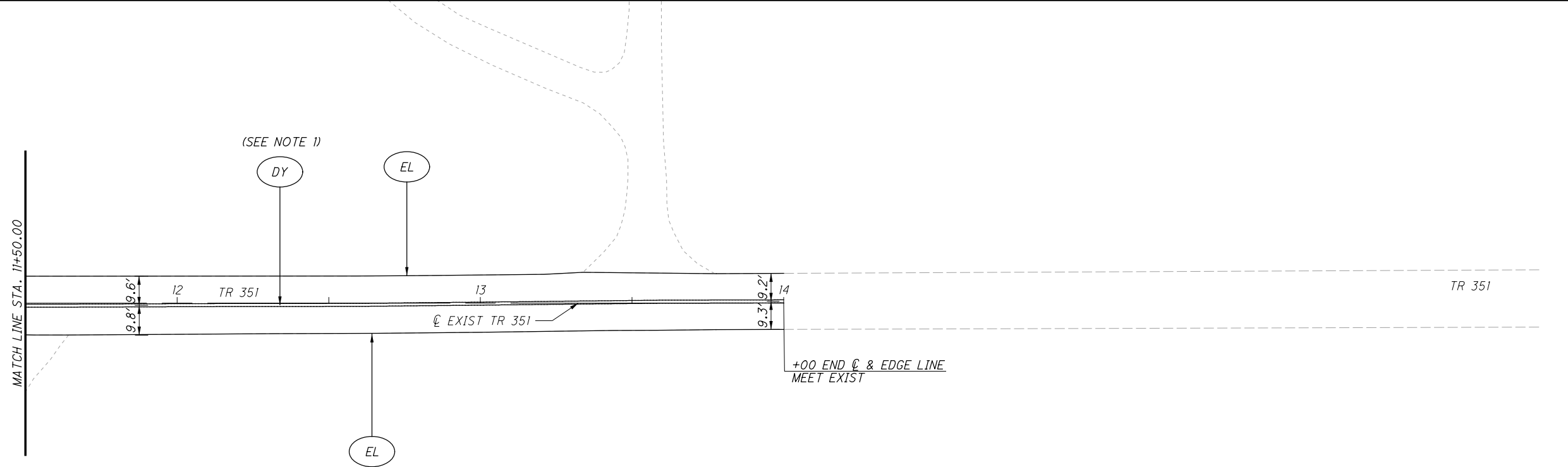
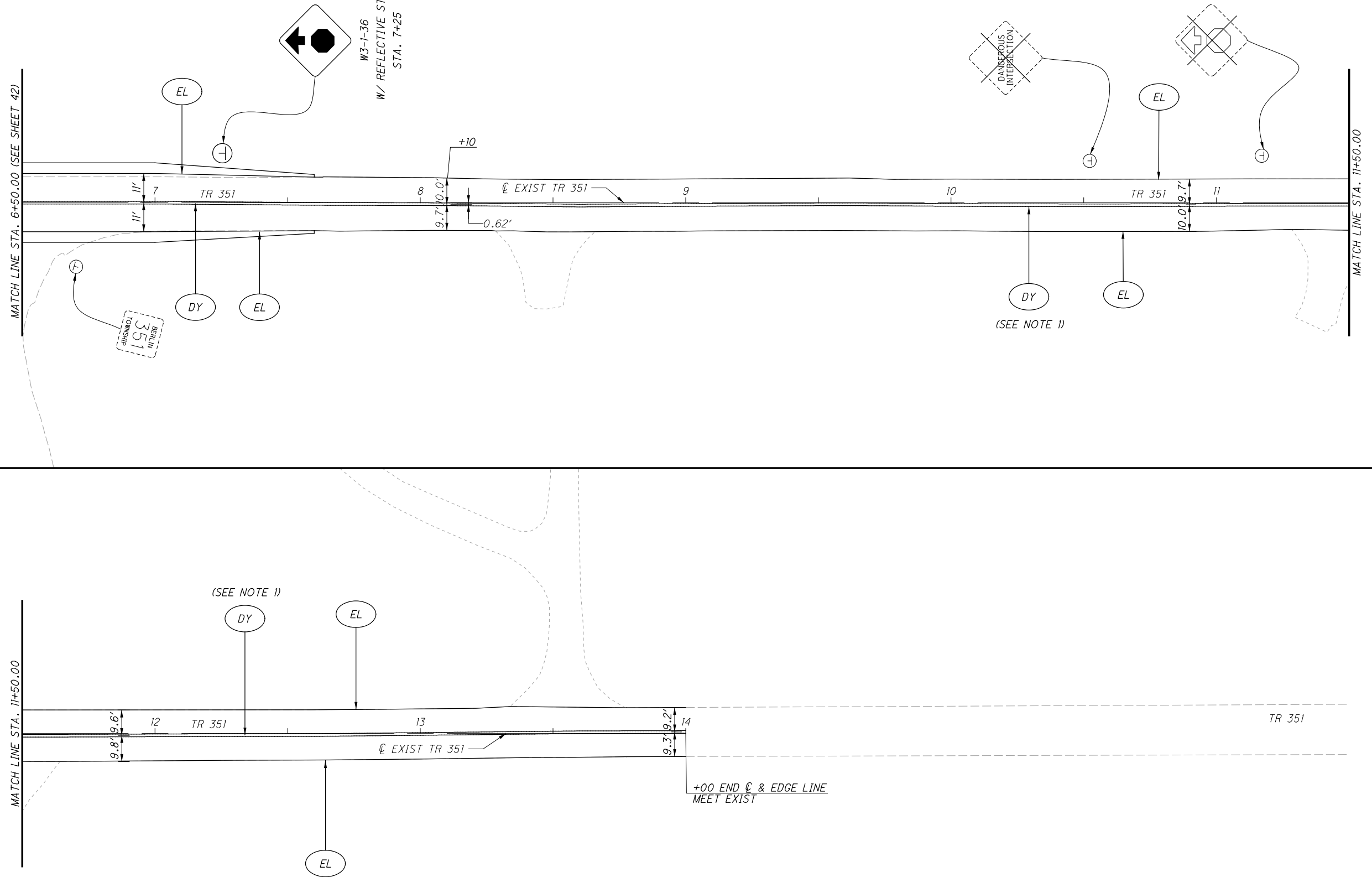
TRAFFIC CONTROL PLAN - TR 351
STA. 0+00.00 TO STA. 5+00.00

HOL-CR203-2.60

0:\DD01\HOL\CR_203_TR_351\Intersection_Improvement\Design\Traffic\Sheets\CR203_IP004.dgn Sheet 5/15/2019 10:03:44 AM david-m

MATCH LINE STA. 11+50.00

MATCH LINE STA. 6+50.00 (SEE SHEET 42)



NOTE 1:
 PLACE CENTER LINE, DOUBLE YELLOW AHEAD
 OF STA. 8+10 IN THE PHYSICAL CENTER OF
 PAVEMENT
 SEE SHEET 42 FOR LEGEND



HOL-CR203-2.60

TRAFFIC CONTROL PLAN - TR 351
 STA. 6+50.00 TO STA. 14+00.00

CALCULATED
 CCS
 CHECKED
 DPF

0 20 40
 HORIZONTAL
 SCALE IN FEET

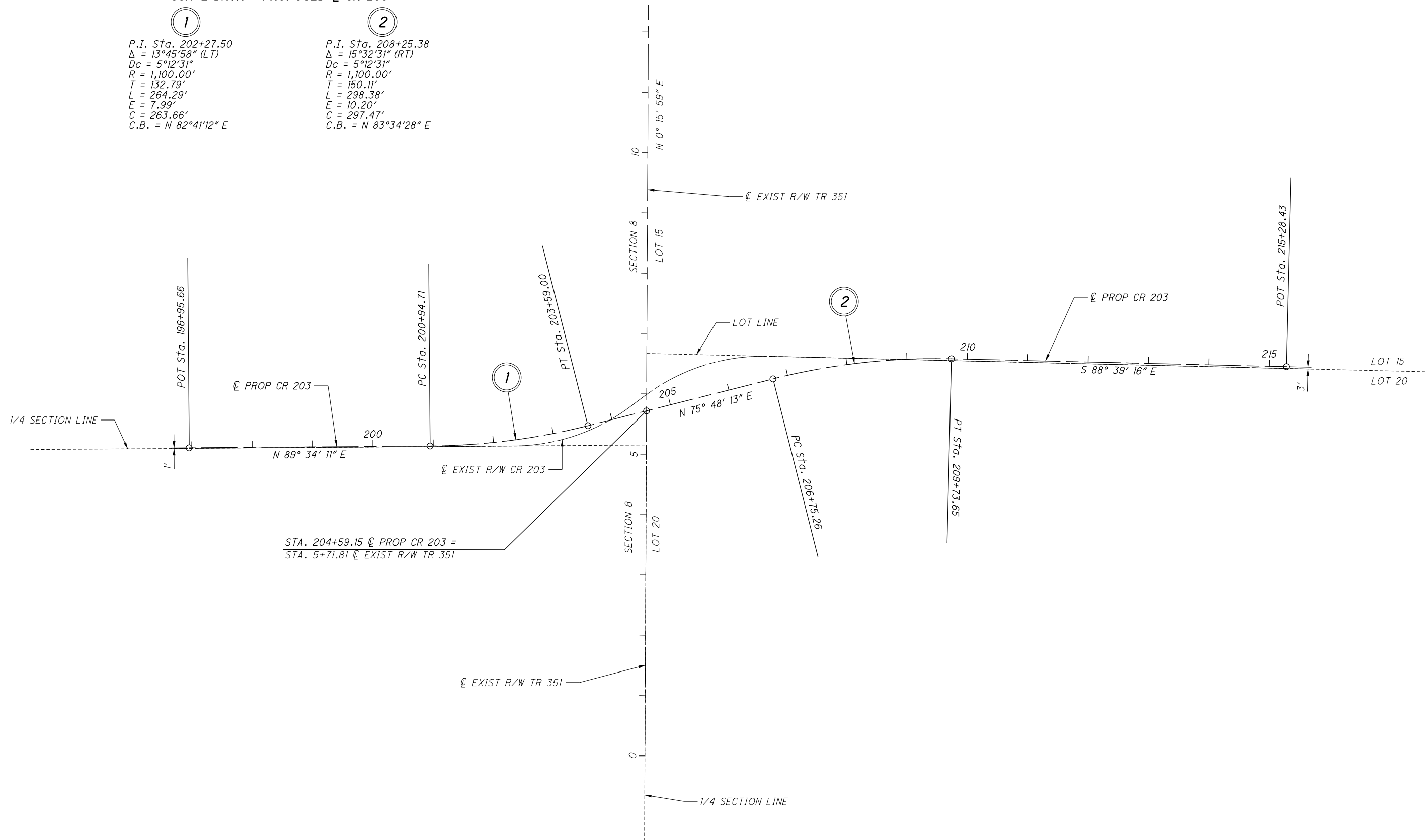
45
 50

HOL - CR203-2.60

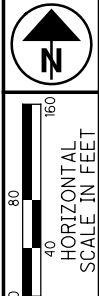
HOLMES COUNTY
BERLIN TOWNSHIP
SECTION 8 T 9 R 6
LOT 15 & 20

CURVE DATA - PROPOSED \oslash CR 203

1	2
P.I. Sta. 202+27.50	P.I. Sta. 208+25.38
$\Delta = 13^{\circ}45'58''$ (LT)	$\Delta = 15^{\circ}32'31''$ (RT)
$Dc = 5^{\circ}12'31''$	$Dc = 5^{\circ}12'31''$
$R = 1,100.00'$	$R = 1,100.00'$
$T = 132.79'$	$T = 150.11'$
$L = 264.29'$	$L = 298.38'$
$E = 7.99'$	$E = 10.20'$
$C = 263.66'$	$C = 297.47'$
C.B. = N 82°41'12" E	C.B. = N 83°34'28" E



STA. 204+59.15 \oslash PROP CR 203 =
STA. 5+71.81 \oslash EXIST R/W TR 351



R/W DESIGNER	DPF	PID NO.	0
R/W REVIEWER	JDB		

CENTERLINE PLAT

HOL - CR203 - 2.60

O:\DDOT\HOL\CR_203_TR_351\Intersection_Improvement\Design\RW_Sheets\CR203_RC001.dgn Sheet 5/15/2019 10:03:52 AM david-m

HOLMES COUNTY
BERLIN TOWNSHIP
SECTION 8 T 9 R 6
LOT 15 & 20

2
MARLIN A. MILLER &
RUTH Y. MILLER &
MARY M. MILLER LE
IN BASEMENT OF SAID RES.
6451 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00356-002

1
TRUSTEES OF THE BUNA VISTA SCHOOL
6381 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-60011-000

2
MARLIN A. MILLER &
RUTH Y. MILLER &
MARY M. MILLER LE
IN BASEMENT OF SAID RES.
6451 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00356-002

PARCEL ID 01-00118-015
KYLE P. MILLER 1/2 INT
& KELLY A. MILLER 1/2 INT JS
6400 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-015

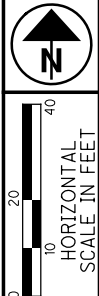
TONYA A. SCHLABACH
6398 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-012

WAYNE P. SHARP
6370 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-010

3
GRACE HAVEN FELLOWSHIP
5881 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-003

CURVE DATA @ PROP. CR 203
P.I. Sta. 202+27.50
 $\Delta = 13^\circ 45' 58''$ (LT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 132.79'$
 $L = 264.29'$
 $E = 7.99'$
 $C = 263.66'$
 $C.B. = N 82^\circ 41' 12'' E$

REV. BY	DATE	DESCRIPTION



PID NO. 0
R/W DESIGNER DPF
R/W REVIEWER JDB

RIGHT OF WAY BOUNDARY SHEET
CR 203 STA. 198+00 TO STA. 203+00

HOL-CR203-2.60

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CURVE DATA @ PROP. CR 203
 P.I. Sta. 202+27.50
 $\Delta = 13^\circ 45' 58''$ (LT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 132.79'$
 $L = 264.29'$
 $E = 7.99'$

HOLMES COUNTY
 BERLIN TOWNSHIP
 SECTION 8 T 9 R 6
 LOT 15 & 20

2
 MARLIN A. MILLER &
 RUTH Y. MILLER &
 MARY M. MILLER LE
 IN BASEMENT OF SAID RES.
 6451 CR 203,
 MILLERSBURG, OH 44654
 PARCEL ID 01-00356-002

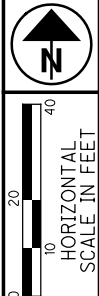
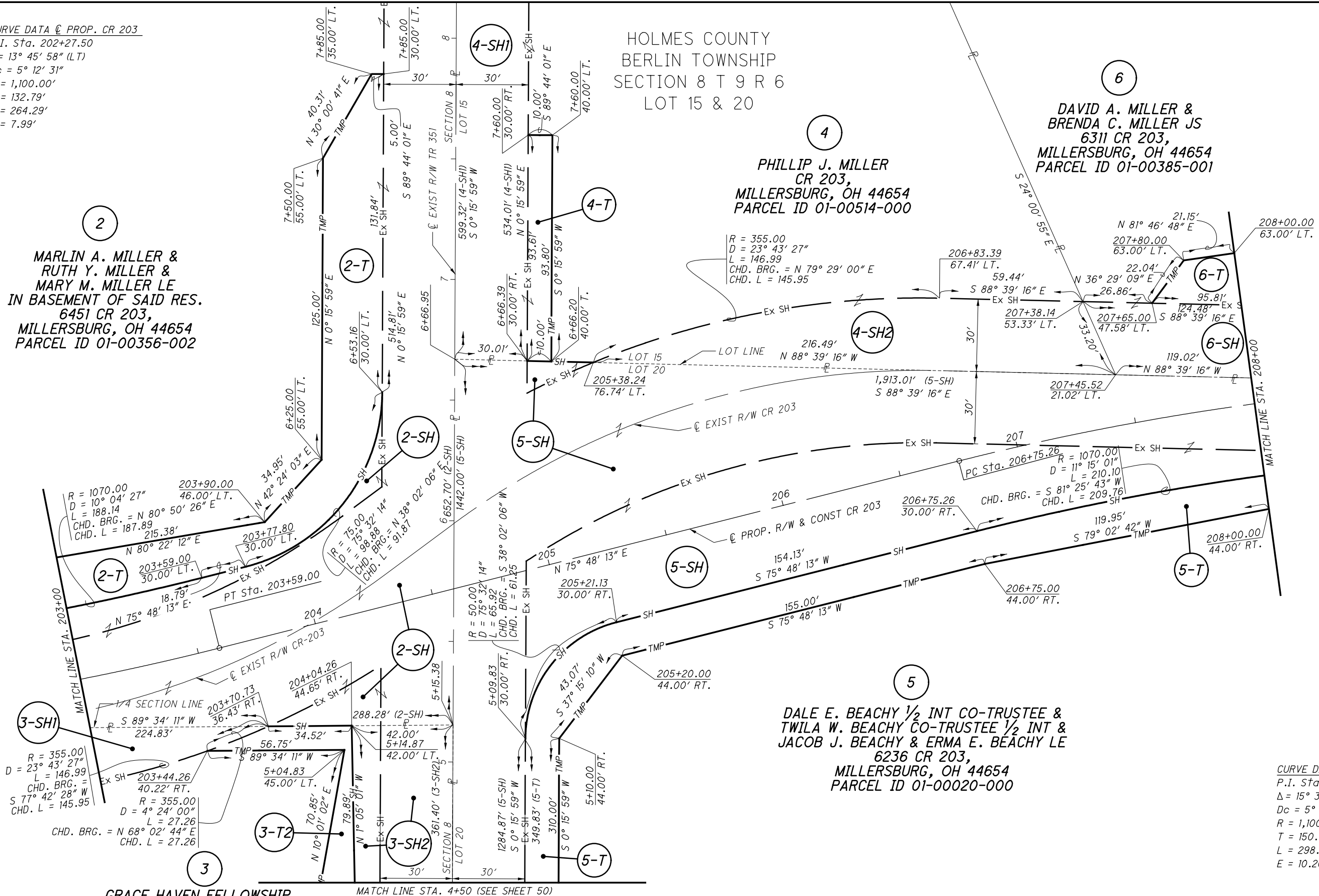
4
 PHILLIP J. MILLER
 CR 203,
 MILLERSBURG, OH 44654
 PARCEL ID 01-00514-000

6
 DAVID A. MILLER &
 BRENDA C. MILLER JS
 6311 CR 203,
 MILLERSBURG, OH 44654
 PARCEL ID 01-00385-001

5
 DALE E. BEACHY 1/2 INT CO-TRUSTEE &
 TWILA W. BEACHY CO-TRUSTEE 1/2 INT &
 JACOB J. BEACHY & ERMA E. BEACHY LE
 6236 CR 203,
 MILLERSBURG, OH 44654
 PARCEL ID 01-00020-000

3
 GRACE HAVEN FELLOWSHIP
 5881 CR 203,
 MILLERSBURG, OH 44654
 PARCEL ID 01-00118-003

CURVE DATA @ PROP. CR 203
 P.I. Sta. 208+25.38
 $\Delta = 15^\circ 32' 31''$ (RT)
 $D_c = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 150.11'$
 $L = 298.38'$
 $E = 10.20'$



PID NO. 0
 R/W DESIGNER DPF
 R/W REVIEWER JDB

RIGHT OF WAY BOUNDARY SHEET
 CR 203 STA. 203+00 TO STA. 208+00

HOL-CR203-2.60

3 / 5
 48
 50

REV. BY	DATE	DESCRIPTION

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HOLMES COUNTY
BERLIN TOWNSHIP
SECTION 8 T 9 R 6
LOT 15 & 20

JEFFREY R. WILKINS 1/2 INT
& TATIANA WILKINS 1/2 INT JS
CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00297-007

DAVID A. MILLER &
BRENDA C. MILLER JS
6311 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00385-001

KENT M. MILLER &
LORI J. MILLER JS
6303 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00385-000

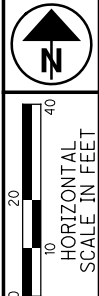
DALE E. BEACHY &
TWILA W. BEACHY
CO-TRUSTEES OF BEACHY
FAMILY TRUST
6273 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00402-000

PARCEL ID 01-00294-000

DALE E. BEACHY 1/2 INT CO-TRUSTEE &
TWILA W. BEACHY CO-TRUSTEE 1/2 INT &
JACOB J. BEACHY & ERMA E. BEACHY LE
6236 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00020-000

CURVE DATA @ PROP. CR 203
P.I. Sta. 208+25.38
 $\Delta = 15^\circ 32' 31''$ (RT)
Dc = 5° 12' 31"
R = 1,100.00'
T = 150.11'
L = 298.38'
E = 10.20'

REV. BY	DATE	DESCRIPTION



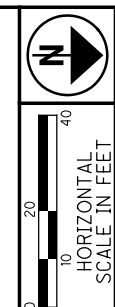
PID NO. 0
R/W DESIGNER DPF
R/W REVIEWER JDB

RIGHT OF WAY BOUNDARY SHEET
CR 203 STA. 208+00 TO STA. 213+50

HOL-CR203-2.60

4 / 5
49
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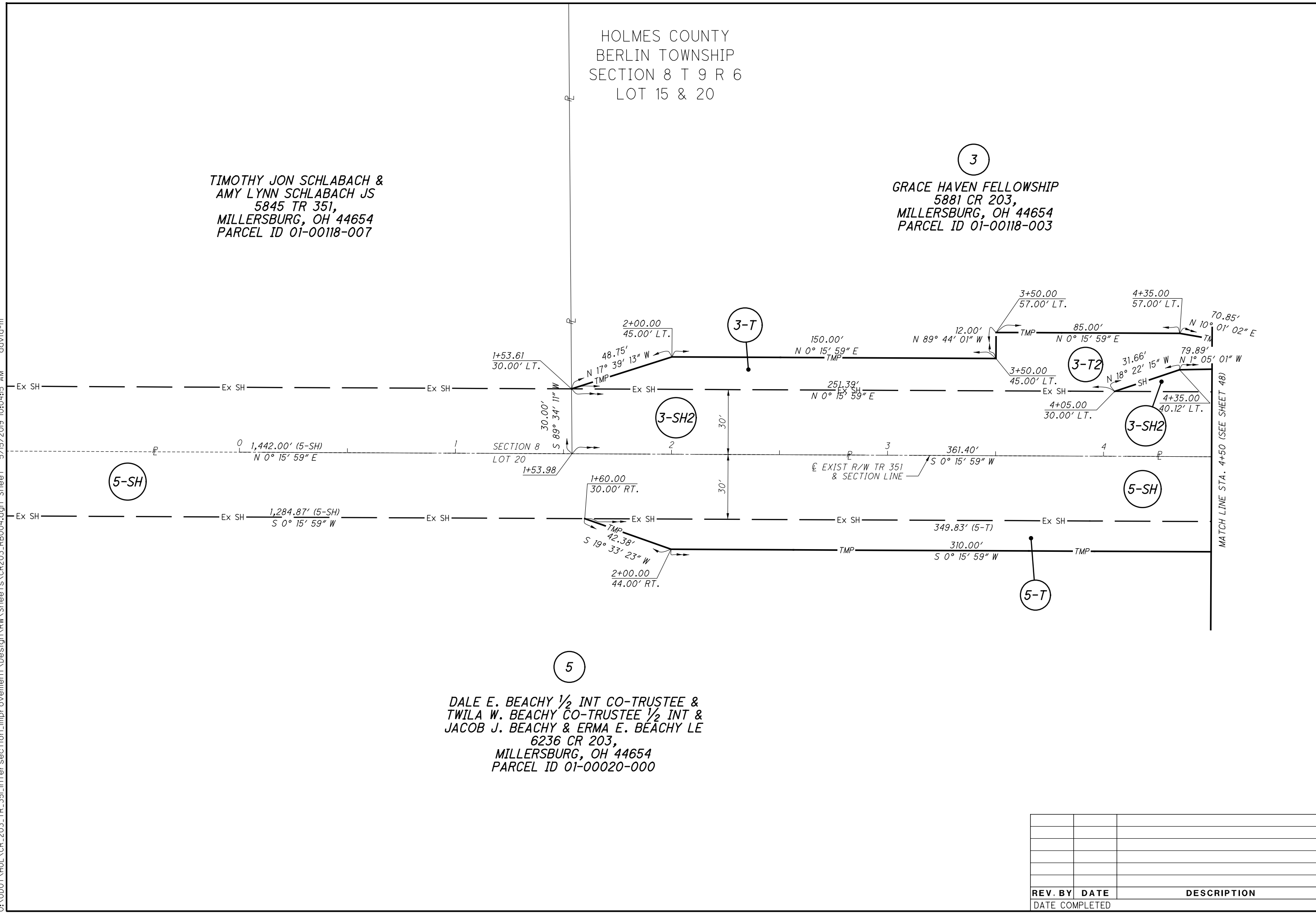
HOLMES COUNTY
BERLIN TOWNSHIP
SECTION 8 T 9 R 6
LOT 15 & 20

TIMOTHY JON SCHLABACH &
AMY LYNN SCHLABACH JS
5845 TR 351,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-007

3
GRACE HAVEN FELLOWSHIP
5881 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00118-003

5
DALE E. BEACHY 1/2 INT CO-TRUSTEE &
TWILA W. BEACHY CO-TRUSTEE 1/2 INT &
JACOB J. BEACHY & ERMA E. BEACHY LE
6236 CR 203,
MILLERSBURG, OH 44654
PARCEL ID 01-00020-000

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PID NO. 0
R/W DESIGNER DPF
R/W REVIEWER JDB

RIGHT OF WAY BOUNDARY SHEET
TR 351 STA. 0+00 TO STA. 4+50

HOL-CR203-2.60

REV. BY	DATE	DESCRIPTION

5 / 5
50
50