

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

PLAN NO.  

## D11-CR-FY2008 CULVERT REPLACEMENT

PART	COUNTY	ROUTE	SECTION	PROJECT LIMITS	
				BEGIN	END
1	CAR	SR 9	9.68		
2	CAR	SR 164	1.11		
3	CAR	SR 332	0.00		
4	CAR	SR 332	5.07	5.07	5.08
5	CAR	SR 332	7.98		
6	CAR	SR 332	8.70		
7	CAR	SR 542	12.36		
8	HAS	SR 799	5.08		

### PROJECT DESCRIPTION

This Project consist of the rehabilitation of eight culverts located in Carroll County and Harrison County with minimal roadway work including embankment reconstruction and guardrail.

### 2005 SPECIFICATIONS

The Standard 2005 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal govern these improvements.

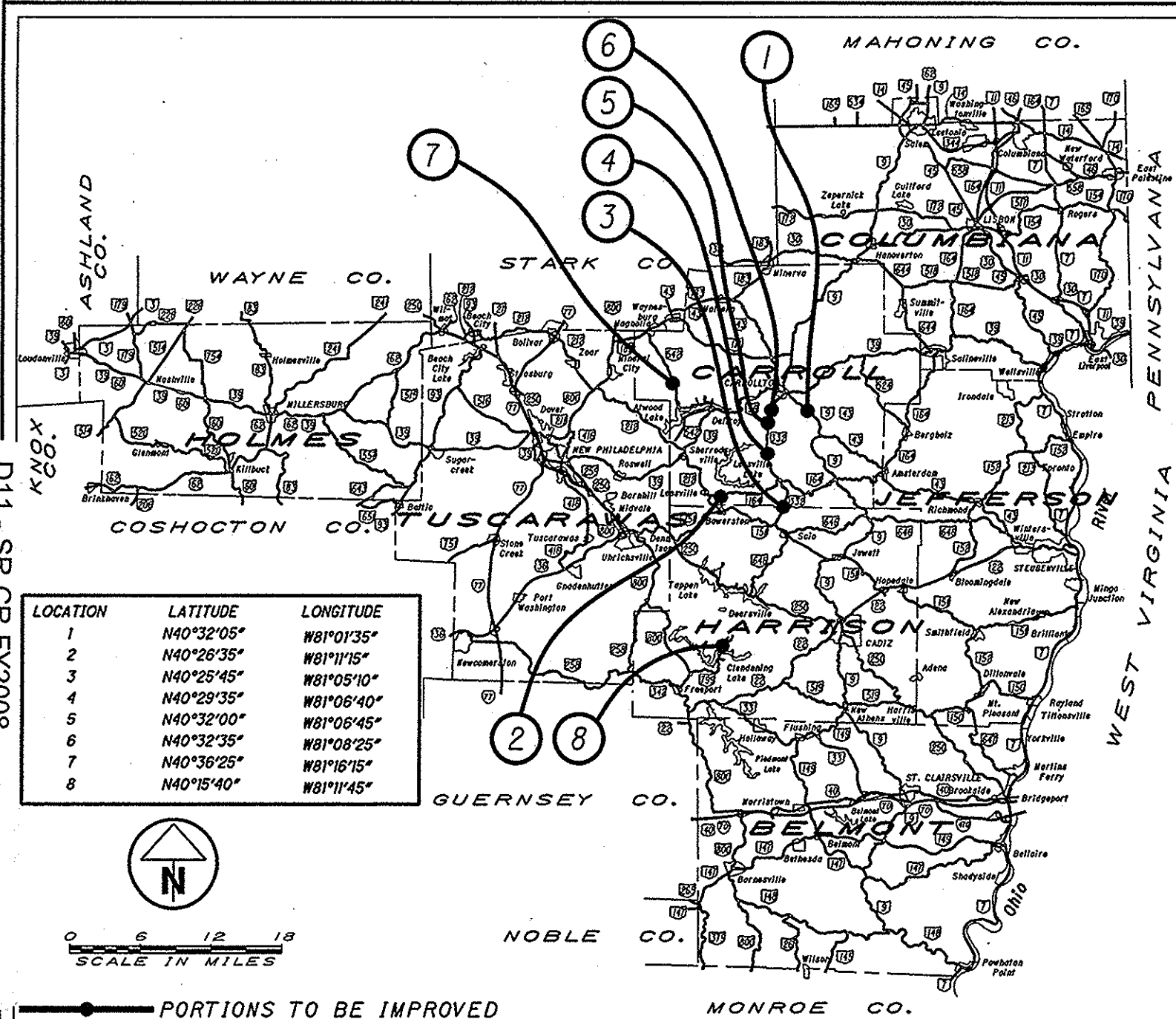
I hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No. 2 and 8 and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts No. 1, 3, 4, 5, 6 and 7 and provisions for the maintenance and safety of traffic will be as indicated in the plan.

APPROVED  
DATE 3/7/08

*Richard A. Pable, P.E.*  
DISTRICT DEPUTY DIRECTOR

APPROVED  
DATE 3-24-08

*James J. Brandy, III*  
DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION	LATITUDE	LONGITUDE
1	N40°32'05"	W81°01'35"
2	N40°26'35"	W81°11'15"
3	N40°25'45"	W81°05'10"
4	N40°29'35"	W81°06'40"
5	N40°32'00"	W81°06'45"
6	N40°32'35"	W81°08'25"
7	N40°36'25"	W81°16'15"
8	N40°15'40"	W81°11'45"



0 6 12 18  
SCALE IN MILES

PORTIONS TO BE IMPROVED

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
**1-800-362-2764**  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: **1-800-925-0988**

**PLAN PREPARED  
BY  
ODOT DISTRICT 11**

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	10/19/07	DM-1.1	4/21/06	MT-97.10	9/5/06	800	4/18/08
		DM-1.4	4/21/06	MT-101.60	9/5/06	832	4/25/06
GR-1.1	7/16/04	DM-4.3	7/19/02	MT-105.10	10/18/02	837	4/20/07
GR-2.1	1/16/04	DM-4.4	7/19/02	MT-105.11	10/18/02	937	4/20/07
GR-4.1	4/18/03	TC-41.20	1/19/01				
		TC-42.20	7/16/04				
HW-2.1	4/21/06	TC-52.10	1/19/07				
HW-2.2	4/21/06	TC-52.20	1/19/07				
		TC-73.10	1/19/01				
SPECIAL PROVISIONS NWP #3 12/27/07							

ENGINEERS SEAL:

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY EARL STILLION  
61138

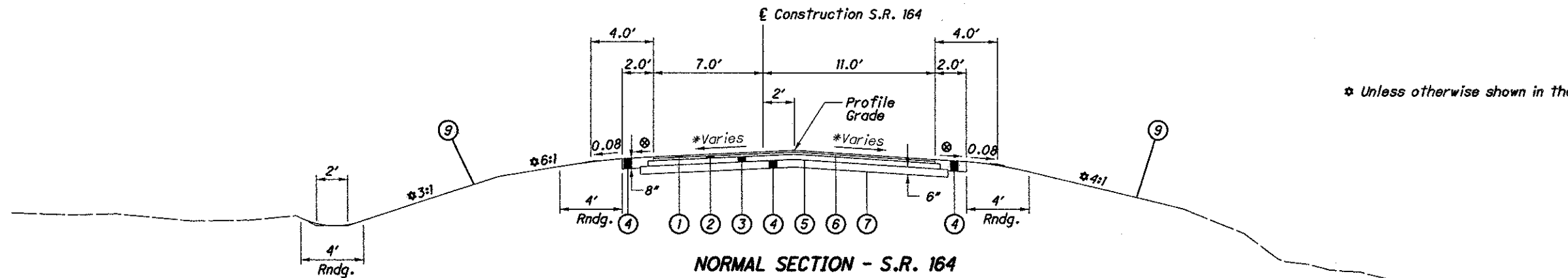
SIGNED: *Timothy E. Stillion*  
DATE: 3-6-08

PROJECT EDA	N/A (Maintenance Project)
CONTRACTOR EDA	N/A (Maintenance Project)
NOT EDA	N/A (Maintenance Project)

### INDEX OF SHEETS

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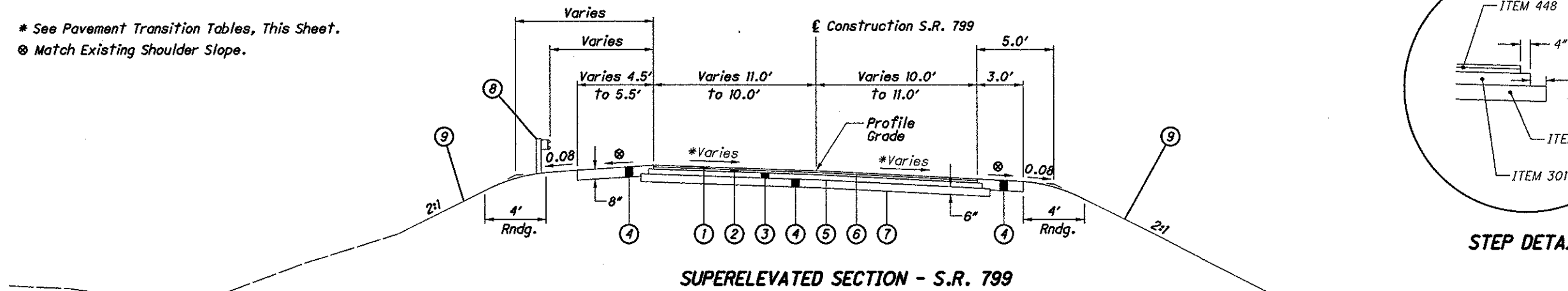
FEDERAL PROJECT NO. NON-FEDERAL  
 PID NO. 82224  
 CONSTRUCTION PROJECT NO.  
 TITLE SHEET  
 D11-CR-FY2008  
1/28



**NORMAL SECTION - S.R. 164**

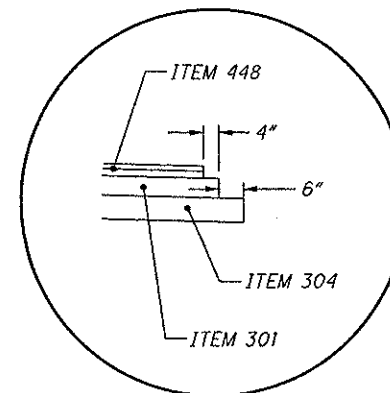
SECTION APPLIES:  
Sta. 58+35.00 to Sta. 58+85.00

\* See Pavement Transition Tables, This Sheet.  
⊗ Match Existing Shoulder Slope.



**SUPERELEVATED SECTION - S.R. 799**

SECTION APPLIES:  
Sta. 73+70.00 to Sta. 74+10.00



**STEP DETAIL**

PAVEMENT TRANSITION TABLE CAR-164-1.11										
LEFT SIDE				CONTROL (2' RT. OF CENTERLINE)		RIGHT SIDE				REMARKS
EDGE ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH (ft)	STATION	PROFILE GRADE	WIDTH (ft)	CROSS SLOPE	ELEVATION CORRECTION	EDGE ELEVATION	
954.35	-0.440	-0.0489	9.0	58+35	954.79	9.0	-0.0667	-0.600	954.19	EXISTING
954.51	-0.431	-0.0479	9.0	58+50	954.94	9.0	-0.0667	-0.600	954.34	
954.78	-0.417	-0.0463	9.0	58+75	955.20	9.0	-0.0667	-0.600	954.60	
954.89	-0.410	-0.0456	9.0	58+85	955.30	9.0	-0.0667	-0.600	954.70	EXISTING

PAVEMENT TRANSITION TABLE HAS-799-5.08										
LEFT SIDE				CENTERLINE CONTROL		RIGHT SIDE				REMARKS
EDGE ELEVATION	ELEVATION CORRECTION	CROSS SLOPE	WIDTH (ft)	STATION	PROFILE GRADE	WIDTH (ft)	CROSS SLOPE	ELEVATION CORRECTION	EDGE ELEVATION	
902.92	0.400	0.0364	11.00	73+70	902.52	10.00	-0.0570	-0.570	901.95	EXISTING
902.84	0.393	0.0366	10.75	73+80	902.45	10.25	-0.0546	-0.560	901.89	
902.77	0.385	0.0367	10.50	73+90	902.38	10.50	-0.0522	-0.548	901.83	
902.68	0.378	0.0369	10.25	74+00	902.30	10.75	-0.0497	-0.534	901.77	
902.60	0.370	0.0370	10.00	74+10	902.23	11.00	-0.0473	-0.520	901.71	EXISTING

**PROPOSED LEGEND**

- ① ITEM 448 - 1/4" Asphalt Concrete Surface Course, Type 1, PG64-22, As Per Plan
- ② ITEM 448 - 3/4" Asphalt Concrete Intermediate Course, Type 2, PG64-22
- ③ ITEM 301 - 4" Asphalt Concrete Base, PG64-22
- ④ ITEM 304 - Aggregate Base
- ⑤ ITEM 408 - Prime Coat (Applied at 0.4 Gal./S.Y.)
- ⑥ ITEM 407 - Tack Coat for Intermediate Course (Applied at 0.04 Gal./S.Y.)
- ⑦ ITEM 204 - Subgrade Compaction
- ⑧ ITEM 606 - Guardrail, Type 5
- ⑨ ITEM 659 - Seeding and Mulching

**UTILITIES**

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

Carroll Electric Company P.O. Box 67 Carrollton, Ohio 44615 330-627-2116 Attn: Tony Smolinsky	Great Lakes Energy 125 S.R. 43 P.O. Box 550 Hartsville, Ohio 44632 330-877-6747 Attn: Ed Haas
Verizon 6223 Norwalk Road Medina, Ohio 44256 330-364-0510 Attn: Robert Carducci	Columbia Gas of Ohio, Inc. 7080 Fry Road Middleburg Heights, Ohio 44130 440-891-2433 Attn: Jim Burchfield
AT&T 50 West Bowery Street Akron, Ohio 44308 330-384-8057 Attn: Jim Buetel	South Central Power Company 37801 Barnesville-Bethesda Road Barnesville, Ohio 43713 740-425-4018 Attn: Jeff Lewis
Comcast 100 Weldon Avenue Suite A Wintersville, Ohio 43953 740-346-2250 Attn: Craig Tacy	SBC 2933 Salt Springs Road Youngstown, Ohio 44509 330-270-8816 Attn: Harold Maynard
Time Warner Cable 617 Tuscarawas Avenue P.O. Box 506 New Philadelphia, Ohio 44663 330-343-5823 Attn: Mark Sexton	

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.

**ROUNDING**

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

**ELEVATION DATUM**

ALL ELEVATIONS ARE BASED ON NAVD 1988.

**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.

**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.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	9	0	9
30"	1	0	1
48"	3	0	3

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**SEEDING AND MULCHING**

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.

**PROFILE AND ALIGNMENT**

AT LOCATIONS WHERE PAVEMENT WILL BE REPLACED, THE PROPOSED PAVEMENT SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. A PAVEMENT TABLE IS SHOWN ON THE TYPICAL SECTIONS ON SHEET NO. 2 FOR EACH RESPECTIVE LOCATION.

**ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, AS PER PLAN**

MATERIAL FURNISHED FOR FINE AND COARSE AGGREGATES USED IN THIS ITEM SHALL EXCLUDE ALL STONE AND CRUSHED CARBONATE STONE.

**CENTERLINE REFERENCES**

CENTERLINE REFERENCES WILL BE PROVIDED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING.

**ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT**

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, LOW STRENGTH MORTAR BACKFILL, TYPE 1.

THE ENDS OF THE EXISTING CONDUIT SHALL BE CUT OFF TO ONE FOOT BELOW THE EXISTING GRADE BEFORE FILLING.

BULKHEADS SHALL BE LOCATED AT INLET AND OUTLET ENDS OF THE EXISTING CONDUIT TO BE FILLED. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE PLAN FOR INFORMATION PURPOSES ONLY:

**LOW STRENGTH MORTAR BACKFILL, TYPE 1:**

CAR-9-9.68	7 CU. YD.
CAR-332-0.00	8 CU. YD.
CAR-332-7.98	10 CU. YD.
CAR-332-8.70	6 CU. YD.
CAR-542-12.36	16 CU. YD.

**ITEM 603 - CONDUIT BORED OR JACKED**

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 5 FEET TO THE EDGE OF PAVEMENT MENT. PROVIDE A 0.50 INCH UNGALVANIZED CASING PIPE CONFORMING TO 748.06 THAT HAS JOINTS WITH A CIRCUMFERENTIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY AN ODOT APPROVED FIELD WELDER. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDRO-STATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE. IF A CASING PIPE IS USED IN THE BORING AND JACKING OPERATION, THE VOID BETWEEN IT AND THE INTERIOR CARRIER PIPE SHALL BE COMPLETELY FILLED WITH ITEM 613, LOW STRENGTH MORTAR BACKFILL. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIAL USED TO PERFORM THIS OPERATION SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

**WETLAND AREAS**

WETLAND AREAS HAVE BEEN IDENTIFIED ON BOTH THE INLET AND OUTLET SIDES OF THE CAR-332-7.98 CULVERT. THESE AREAS ARE SHOWN ON SHEET 16 OF THE PLANS. THE CONTRACTOR SHALL EXERCISE CAUTION TO ASSURE THAT NO IMPACTS OCCUR TO THIS WETLAND AREA. ANY ACTIVITIES OCCURRING IN THIS WETLAND AREA WOULD REQUIRE SPECIAL PERMITS FROM THE US ARMY CORP OF ENGINEERS AND/OR THE OHIO EPA. OBTAINING SUCH PERMITS WOULD BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANY OTHER SITE PROPOSED BY THE CONTRACTOR FOR OFF PROJECT ANCILLARY CONSTRUCTION (STAGING AREAS, WASTE LOCATIONS, AND/OR BORROW LOCATIONS) SHALL FIRST BE INVESTIGATED BY THE CONTRACTOR FOR ENVIRONMENTAL SENSITIVITY. ANY SITES THAT ARE DETERMINED TO BE SENSITIVE IN NATURE SHALL NOT BE DISTURBED UNLESS CLEARANCE IS ACQUIRED FROM THE APPROPRIATE CONTROLLING AGENCY/OFFICE AND ALL FEDERAL, STATE, AND LOCAL LAWS ARE COMPLIED WITH, INCLUDING BUT NOT LIMITED TO THE CLEAN WATER ACT. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING AN ENVIRONMENTAL CONSULTING FIRM ACCEPTABLE TO THE DEPARTMENT TO FIELD SURVEY, EVALUATE, AND CLEAR THE ENVIRONMENTALLY SENSITIVE SITE WITH THE APPROPRIATE CONTROLLING AGENCY/OFFICE.

THIS DOES NOT SET A PRECEDENCE THAT THE DEPARTMENT WILL ALWAYS PUT THIS NOTICE IN ALL ENVIRONMENTALLY SENSITIVE PROJECTS. ENVIRONMENTAL DOCUMENTATION IS ALWAYS AVAILABLE UPON REQUEST.

I:\PROJECTS\82224\Prod\Dgn\qnt100.dgn 06-MAR-2008 3:26PM beranek

CALCULATED  
JPB  
CHECKED  
TES

GENERAL NOTES

D11-CR-FY2008

3  
28

**ITEM 614 - MAINTAINING TRAFFIC**

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR PERIODS (NOTED BELOW) WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET NO. 5. LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH CMS 108.07 FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

**CAR-184.1.11**

THIS CLOSURE SHALL NOT EXCEED 5 CONSECUTIVE DAYS. PRIOR TO REOPENING THE ROAD, THE CULVERT, FILL MATERIAL, BASE, AND GUARDRAIL SHALL BE COMPLETED. ITEM 410, TRAFFIC COMPACTED SURFACE SHALL BE INSTALLED TO MAINTAIN TRAFFIC UNTIL PAVEMENT IS COMPLETED. THE PAVEMENT SHALL BE COMPLETED THE NEXT NORMAL WORK DAY USING STANDARD CONSTRUCTION DRAWING MT-97.10. THE CONSTRUCTION OF THIS CULVERT MUST BE COMPLETED PRIOR TO LABOR DAY WEEKEND 2008. SEE SHEET NO. 5 FOR THE DETOUR.

**HAS-799-5.08**

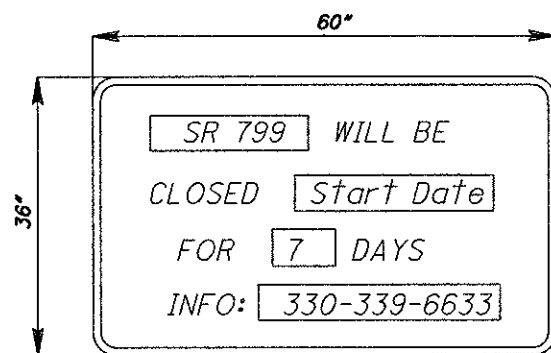
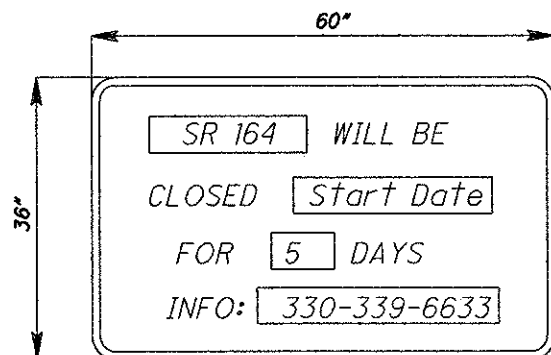
THIS CLOSURE SHALL NOT EXCEED 7 CONSECUTIVE DAYS. NO DETOUR WILL BE PROVIDED FOR THE CLOSURE OF THIS SECTION. CONSTRUCTION OF THIS CULVERT SHALL TAKE PLACE BETWEEN TIMES OF MAXIMUM DRAWDOWN OF CLENDENING RESERVOIR WHICH OCCURS BETWEEN DECEMBER 15 AND FEBRUARY 15. PRIOR TO REOPENING THE ROAD, THE CULVERT, FILL MATERIAL, BASE, AND GUARDRAIL SHALL BE COMPLETED. ITEM 410, TRAFFIC COMPACTED SURFACE SHALL BE INSTALLED TO MAINTAIN TRAFFIC UNTIL PAVEMENT IS COMPLETED. THE PAVEMENT SHALL BE COMPLETED THE NEXT NORMAL WORK DAY USING STANDARD CONSTRUCTION DRAWING MT-97.10.

FOR THE REMAINING CULVERTS ON THIS PROJECT, TWO LANE, TWO-WAY TRAFFIC SHALL BE MAINTAINED. DURING WORKING HOURS, ONE LANE, ALTERNATING ONE-WAY TRAFFIC MAY BE MAINTAINED BY THE USE OF FLAGGERS FOR DELIVERY OF EQUIPMENT, MATERIALS OR OTHER NECESSARY ACTIVITIES, OTHERWISE ALL LANES SHALL BE OPEN TO TRAFFIC. PLATE TA-3 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE USED IF THE CONTRACTOR OCCUPIES THE SHOULDER.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

**ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)**

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.



THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48" x 30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, AND LIGHTS AS DETAILED IN STANDARD CONSTRUCTION DRAWING MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROAD IS CLOSED TO TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B	28 CU. YD.
ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C	84 CU. YD.
ITEM 616, WATER	3 M. GAL.

**ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)**

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS 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, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**NOTIFICATION OF WORK ZONE LANE RESTRICTIONS**

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST EIGHTEEN (18) DAYS PRIOR TO IMPLEMENTING ANY WORK ZONE RESTRICTIONS WHICH WILL REDUCE THE WIDTH OR VERTICAL CLEARANCE OF ANY LANE ON WHICH TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION.

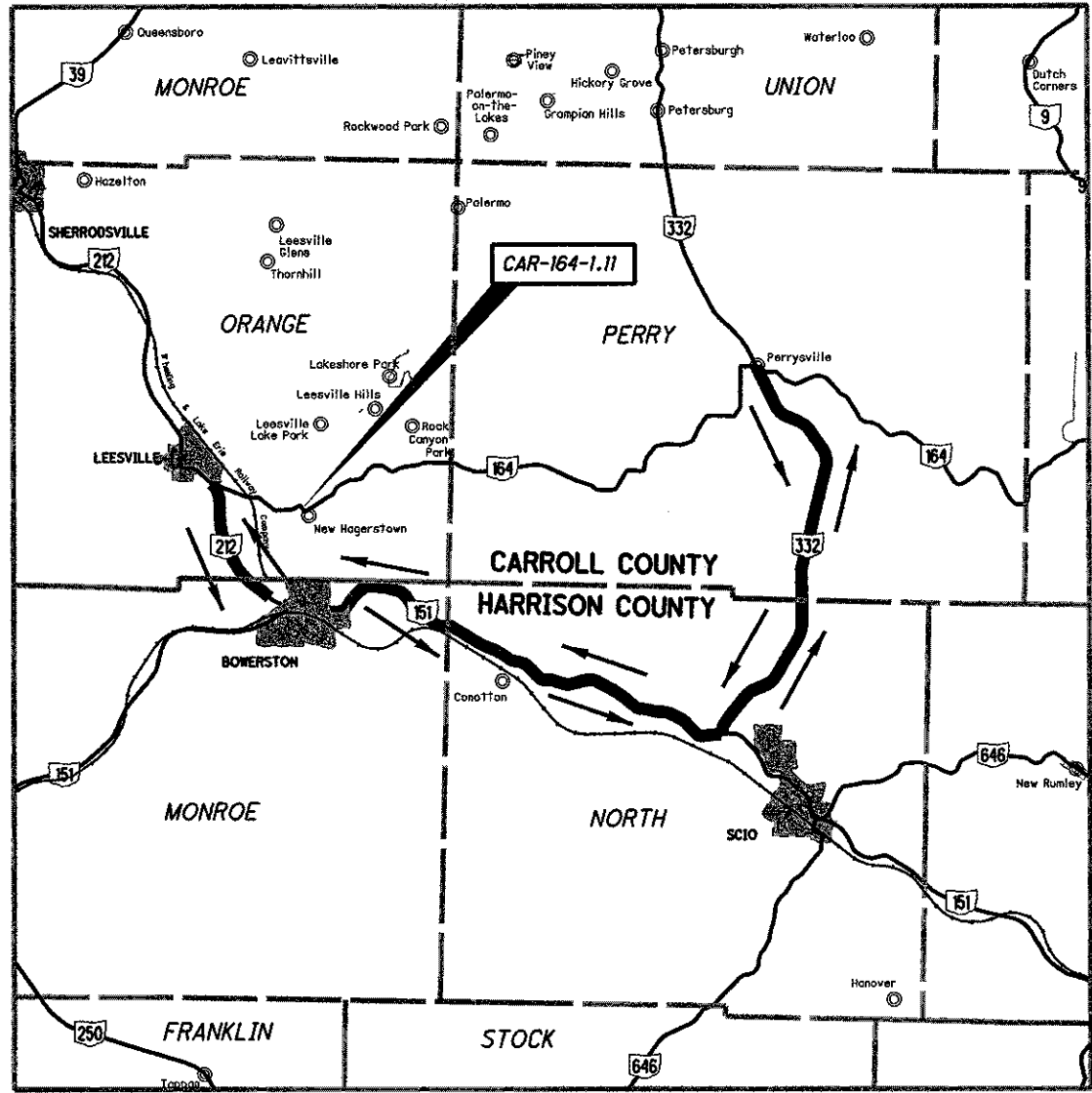
THE ENGINEER SHALL IMMEDIATELY NOTIFY THE DISTRICT ROADWAY SERVICES MANAGER TO ADVISE THE OFFICE OF HIGHWAY MANAGEMENT OF THE RESTRICTIONS.

**DESIGNATED LOCAL DETOUR ROUTE**

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE WILL BE PROVIDED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 448, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, AS PER PLAN	10 CU. YD.
ITEM 617, COMPACTED AGGREGATE, TYPE A	5 CU. YD.



**S.R. 164 DETOUR MAP**



**CAR-164-1.11**

REF NO.	STATION		SIDE	202		601	602	603	630		
				STRUCTURE REMOVED	PIPE REMOVED, 24" AND UNDER	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	48" CONDUIT, TYPE A, 707.02 OR 707.22	GROUND MOUNTED SUPPORT, NO. 3 POST	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
	FROM	TO		LUMP	FT	CY YD	CY YD	FT	FT	EACH	EACH
R-1	58+60		LT.&RT.	LUMP							
R-2	58+67		LT.&RT.		45						
RCP-1	58+60		RT.			16					
D-1	58+60		LT.&RT.				2.20	65			
S-1	58+70		LT.					13.0	1	1	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>LUMP</b>	<b>45</b>	<b>16</b>	<b>2.2</b>	<b>65</b>	<b>13.0</b>	<b>1</b>	<b>1</b>

Item 203 - Excavation ----- 32 Cu Yd  
 Item 203 - Embankment ----- 43 Cu Yd  
 Item 659 - Seeding and Mulching ----- 238 Sq Yd  
 Item 659 - Commercial Fertilizer  
 238 sq. yd. x 9 x 30 lb/1000 sq. ft. x (1/2000) = 0.03 Ton  
 Item 659 - Lime  
 238 sq. yd. x 9 ÷ 43560 sq. ft./Acre = 0.05 Acre  
 Item 659 - Water  
 238 sq. yd. x 9 x 300 Gal./1000 sq. ft. ÷ 1000 x 2 app. = 1.3 M Gal  
 Item 642 - Edge Line, Type 1  
 Sta. 58+35 to Sta. 58+85 Lt. & Rt.  
 50 ÷ 5280 Ft./Mile x 2 = 0.02 Mile  
 Item 642 - Center Line, Type 1  
 Sta. 58+35 to Sta. 58+85 £  
 50 ÷ 5280 Ft./Mile = 0.01 Mile

ALL TOTALS CARRIED TO THE GENERAL SUMMARY.

**HAS-799-5.08**

REF NO.	STATION		SIDE	202		602	603	606	
				PIPE REMOVED, OVER 24"	GUARDRAIL REMOVED	CONCRETE MASONRY	60" CONDUIT, TYPE A, 706.02	GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE A
	FROM	TO		FT	FT	CY YD	FT	FT	EACH
R-1	73+54.92	74+17.98	LT.		64				
R-2	73+65	74+15	RT.		50				
R-3	73+86.66		LT.&RT.	67					
R-4	73+89.77		LT.&RT.	67					
GR-1	73+54.92	74+17.98	LT.					37.5	1
GR-2	73+65	74+15	RT.					50	
D-1	73+88		LT.&RT.			3.86	64		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>134</b>	<b>114</b>	<b>3.9</b>	<b>64</b>	<b>87.5</b>	<b>1</b>

Item 203 - Excavation ----- 40 Cu Yd  
 Item 203 - Embankment ----- 53 Cu Yd  
 Item 659 - Seeding and Mulching ----- 182 Sq Yd  
 Item 659 - Commercial Fertilizer  
 182 sq. yd. x 9 x 30 lb/1000 sq. ft. x (1/2000) = 0.02 Ton  
 Item 659 - Lime  
 182 sq. yd. x 9 ÷ 43560 sq. ft./Acre = 0.04 Acre  
 Item 659 - Water  
 182 sq. yd. x 9 x 300 Gal./1000 sq. ft. ÷ 1000 x 2 app. = 1.0 M Gal  
 Item 642 - Edge Line, Type 1  
 Sta. 73+70 to Sta. 74+10 Lt. & Rt.  
 40 ÷ 5280 Ft./Mile x 2 = 0.02 Mile  
 Item 642 - Center Line, Type 1  
 Sta. 73+70 to Sta. 74+10 £  
 40 ÷ 5280 Ft./Mile = 0.01 Mile

ALL TOTALS CARRIED TO THE GENERAL SUMMARY.

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CALCULATED  
JPB  
CHECKED  
TES

CALCULATIONS & QUANTITIES

D11-CR-FY2008

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SHEET NUMBER													ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
3	4	6	9	11	12	16	17	18	OFFICE CALCS										
													<b>ROADWAY</b>						
LUMP													201	11000	LUMP		CLEARING AND GRUBBING		
		LUMP											202	11000	LUMP		STRUCTURE REMOVED		
			2			2							202	20010	4	EACH	HEADWALL REMOVED		
		45											202	35100	45	FT	PIPE REMOVED, 24" AND UNDER		
		134			6								202	35200	140	FT	PIPE REMOVED, OVER 24"		
		114			175								202	38000	289	FT	GUARDRAIL REMOVED		
			109	69		89	48	60					SPECIAL	20270000	375	FT	FILL AND PLUG EXISTING CONDUIT	3	
													203	10000	858	CU YD	EXCAVATION		
		72		20	766								203	20000	1977	CU YD	EMBANKMENT		
		96		235	1646								224	204	10000	224	SQ YD	SUBGRADE COMPACTION	
													606	13000	262.5	FT	GUARDRAIL, TYPE 5		
		87.5			175								606	25000	1	EACH	ANCHOR ASSEMBLY, TYPE A		
		1											<b>EROSION CONTROL</b>						
													601	11000	7	SQ YD	RIPRAP USING 6" REINFORCED CONCRETE SLAB		
		16		3									601	32100	47	CU YD	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER		
				5	9	5	4	8					601	32200	2	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
					2								659	10000	1940	SQ YD	SEEDING AND MULCHING		
		420			431	1089							659	20000	0.26	TON	COMMERCIAL FERTILIZER		
		0.05			0.06	0.15							659	31000	0.41	ACRE	LIME		
		0.09			0.09	0.23							659	35000	10	M GAL	WATER		
		2			2	6							832	30000	1000	EACH	EROSION CONTROL		
													<b>DRAINAGE</b>						
													602	20000	13.2	CU YD	CONCRETE MASONRY		
		6.1		1.1	0.9	0.9	0.9	1.8	1.5				603	20700	65	FT	48" CONDUIT, TYPE A, 707.02 OR 707.22		
													603	23600	64	FT	60" CONDUIT, TYPE A, 706.02		
		65											603	96600	224	FT	CONDUIT, BORED OR JACKED: 24", TYPE A	3	
		64											603	96600	99	FT	CONDUIT, BORED OR JACKED: 24", TYPE A, 707.01 OR 707.21	3	
				122									603	96600	123	FT	CONDUIT, BORED OR JACKED: 36", TYPE A, 707.02 OR 707.22	3	
					99								603	98300	20	FT	CONDUIT, MISC.: 3' x 3' CONDUIT, TYPE A, 706.05		
								20					54	69					
													<b>PAVEMENT</b>						
													33	301	46000	33	CU YD	ASPHALT CONCRETE BASE, PG64-22	
													57	304	20000	81	CU YD	AGGREGATE BASE	
													8	407	14000	8	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
													80	408	10000	80	GALLON	PRIME COAT	
													10	448	46050	10	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
	10												6	448	47021	16	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, AS PER PLAN	3
		5												617	10100	5	CU YD	COMPACTED AGGREGATE	

GENERAL SUMMARY

D11-CR-FY2008



REF NO.	STATION		SIDE	202	601	601	602	603	SPECIAL
	FROM	TO		HEADWALL REMOVED	RIPRAP USING 6" REINFORCED CONCRETE SLAB	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	CONDUIT BORED OR JACKED, 24", TYPE A	FILL AND PLUG EXISTING CONDUIT
			EACH	SQ YD	CY YD	CY YD	FT	FT	
R-1	153+59		LT.	1					
R-2	153+89		RT.	1					
CP-1	153+70.70		LT.		3				
RCP-1	153+70.70		LT.			5			
D-1	153+70.70		LT.&RT.				1.08	122	
D-2	153+74.84		LT.&RT.						109
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>2</b>	<b>3</b>	<b>5</b>	<b>1.1</b>	<b>122</b>	<b>109</b>

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 9	153+50.00	€	319,897.79	2,378,248.19	1224.89
S.R. 9	154+00.00	€	319,852.48	2,378,269.32	1226.05

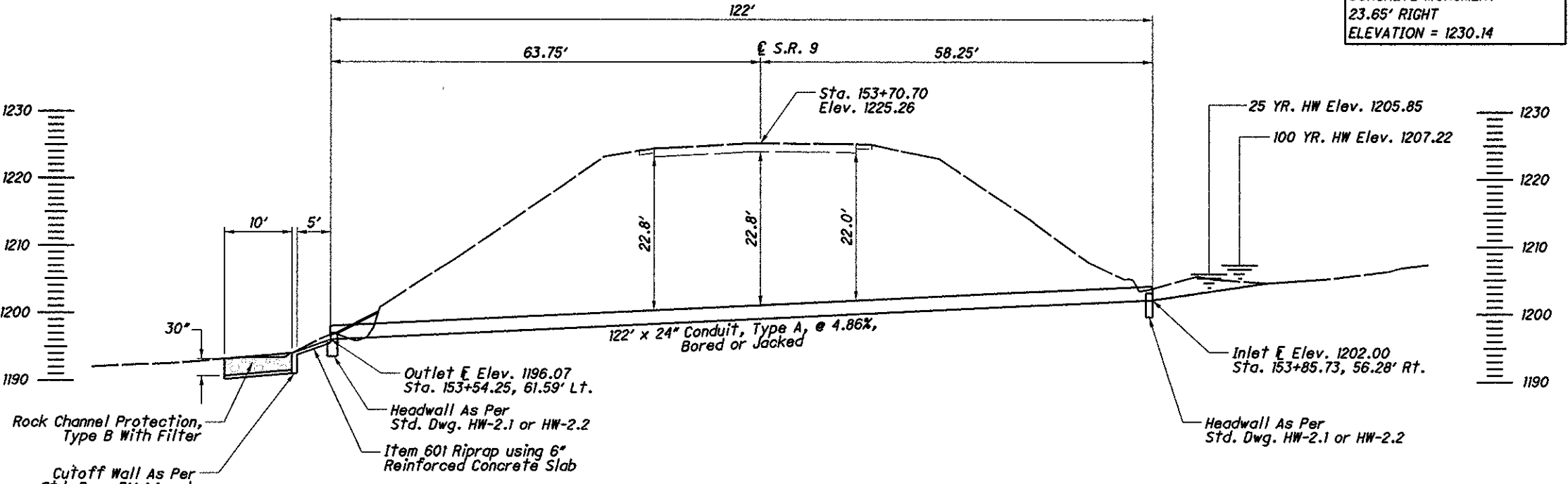
**Item 601 - Riprap Using 6" Reinforced Concrete Slab**  
 (CP-1) CADD Area = 23.0 sq. ft.  
 23.0 sq. ft. ÷ 9 = 2.6 sq. yd. (USE 3 sq. yd.)

**Item 601 - Rock Channel Protection, Type B with Filter**  
 (RCP-1) CADD Area = 47.9 sq. ft.  
 47.9 sq. ft. x 2.5' ÷ 27 = 4.4 cu. yd. (USE 5 cu. yd.)

HYDRAULIC DESIGN DATA	
Drainage Area	= 13 Ac.
Q <sub>25</sub>	= 28 cfs
Q <sub>100</sub>	= 35 cfs
HW <sub>25</sub>	= 1205.85
HW <sub>100</sub>	= 1207.22
V <sub>25</sub>	= 17.37 fps
V <sub>100</sub>	= 18.28 fps

EXISTING STRUCTURE
TYPE: VCP
SIZE: 18" x 115'
SKEW: 14°57'17" R.F.
ALIGNMENT: TANGENT
DATE BUILT: 1931

PROPOSED STRUCTURE
TYPE: Type A
SIZE: 24" x 122'
SKEW: 14°57'17" R.F.
ALIGNMENT: TANGENT



PROFILE ALONG @ OF CULVERT

CALCULATED BY: JPB  
 CHECKED BY: TES

HORIZONTAL SCALE: 1" = 20'

CULVERT DETAILS - CAR-9-9.68

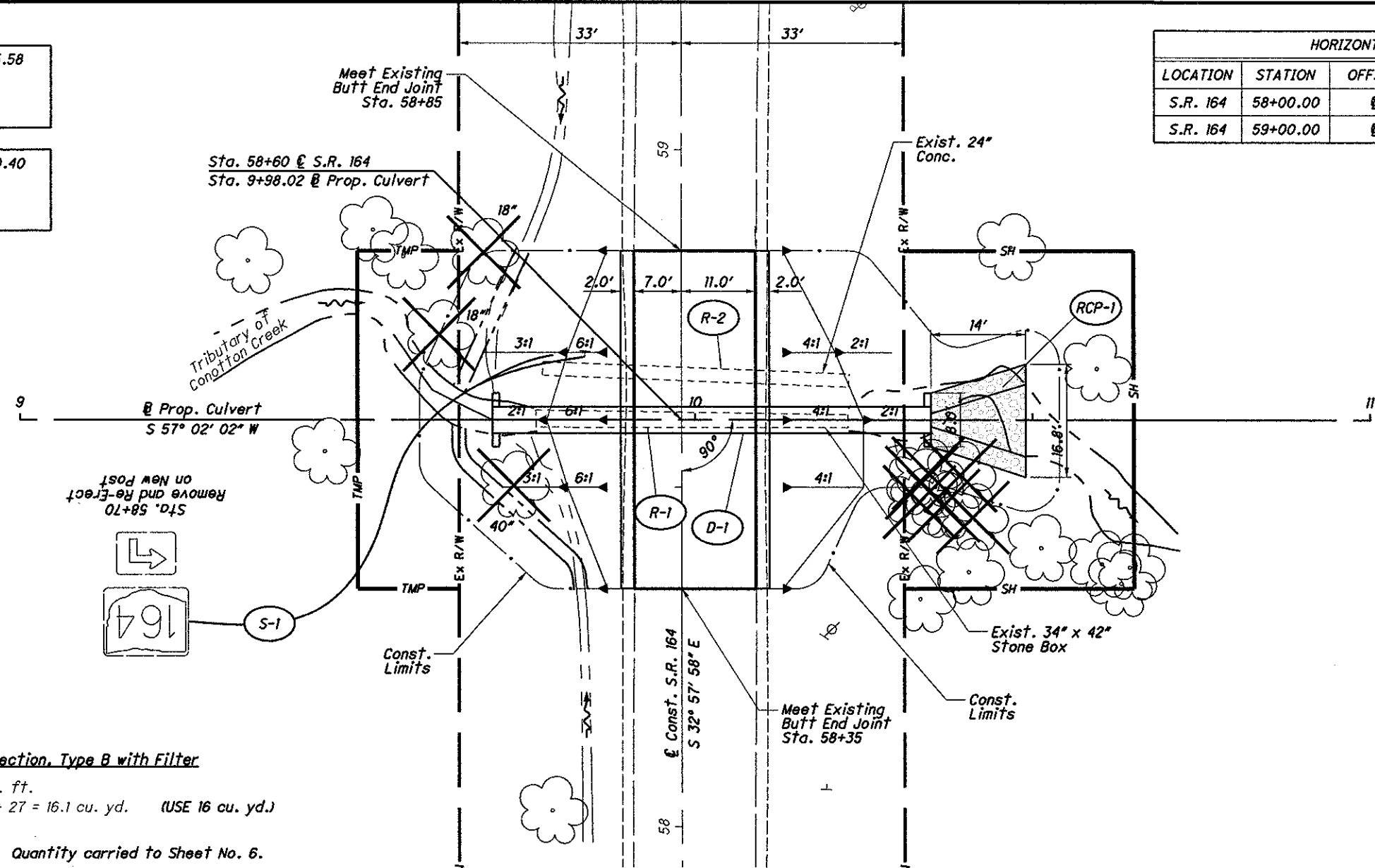
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BENCH MARK STA. 57+15.58  
CONCRETE MONUMENT  
22.40' LEFT  
ELEVATION = 956.26

BENCH MARK STA. 59+10.40  
CONCRETE MONUMENT  
20.27' RIGHT  
ELEVATION = 953.89

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 164	58+00.00	£	285,897.70	2,333,916.75	954.89
S.R. 164	59+00.00	£	285,813.80	2,333,971.16	955.59



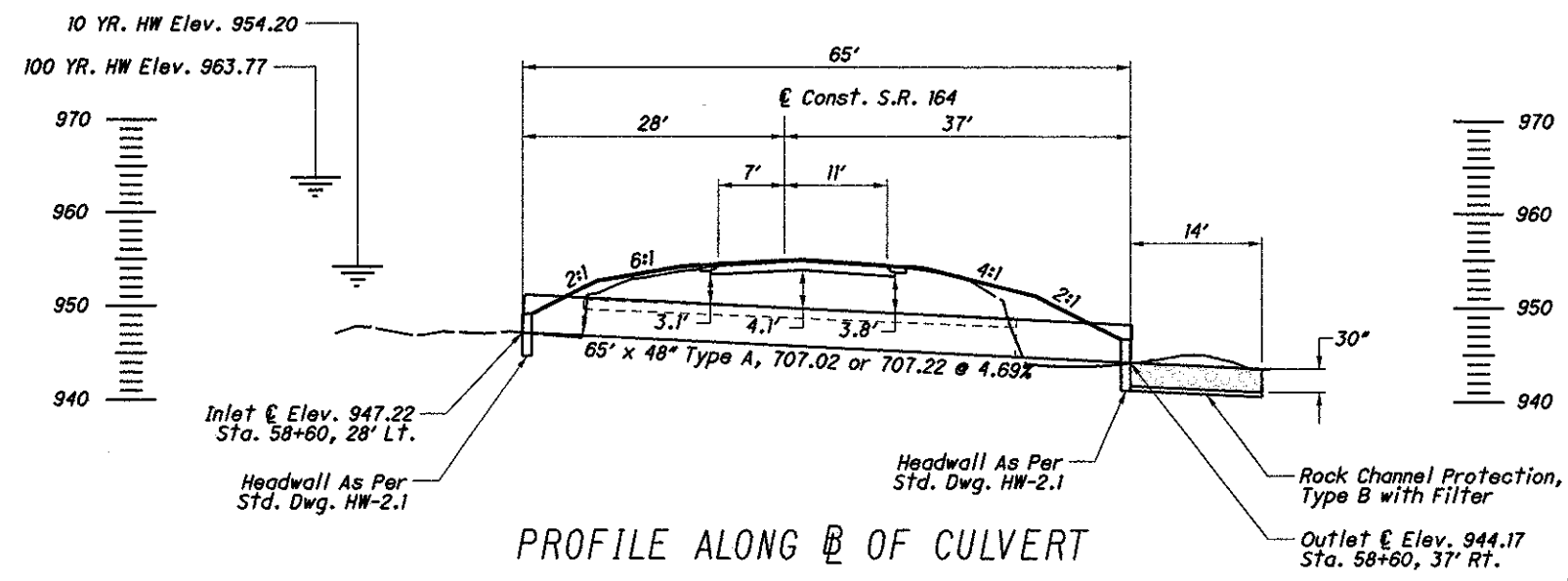
Item 601 - Rock Channel Protection, Type B with Filter  
 (RCP-1) CADD Area = 173.6 sq. ft.  
 173.6 sq. ft. x 2.5' + 27 = 16.1 cu. yd. (USE 16 cu. yd.)

Quantity carried to Sheet No. 6.

HYDRAULIC DESIGN DATA	
Drainage Area	= 209 Ac.
$Q_{10}$	= 119 cfs
$Q_{100}$	= 217 cfs
$HW_{10}$	= 954.20
$HW_{100}$	= 963.77
$V_{10}$	= 13.03 fps
$V_{100}$	= 17.27 fps

EXISTING STRUCTURE	
TYPE:	STONE BOX
SIZE:	34" x 42" x 46"
SKEW:	NONE
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN

PROPOSED STRUCTURE	
TYPE:	CMP
SIZE:	48" x 65"
SKEW:	NONE
ALIGNMENT:	TANGENT



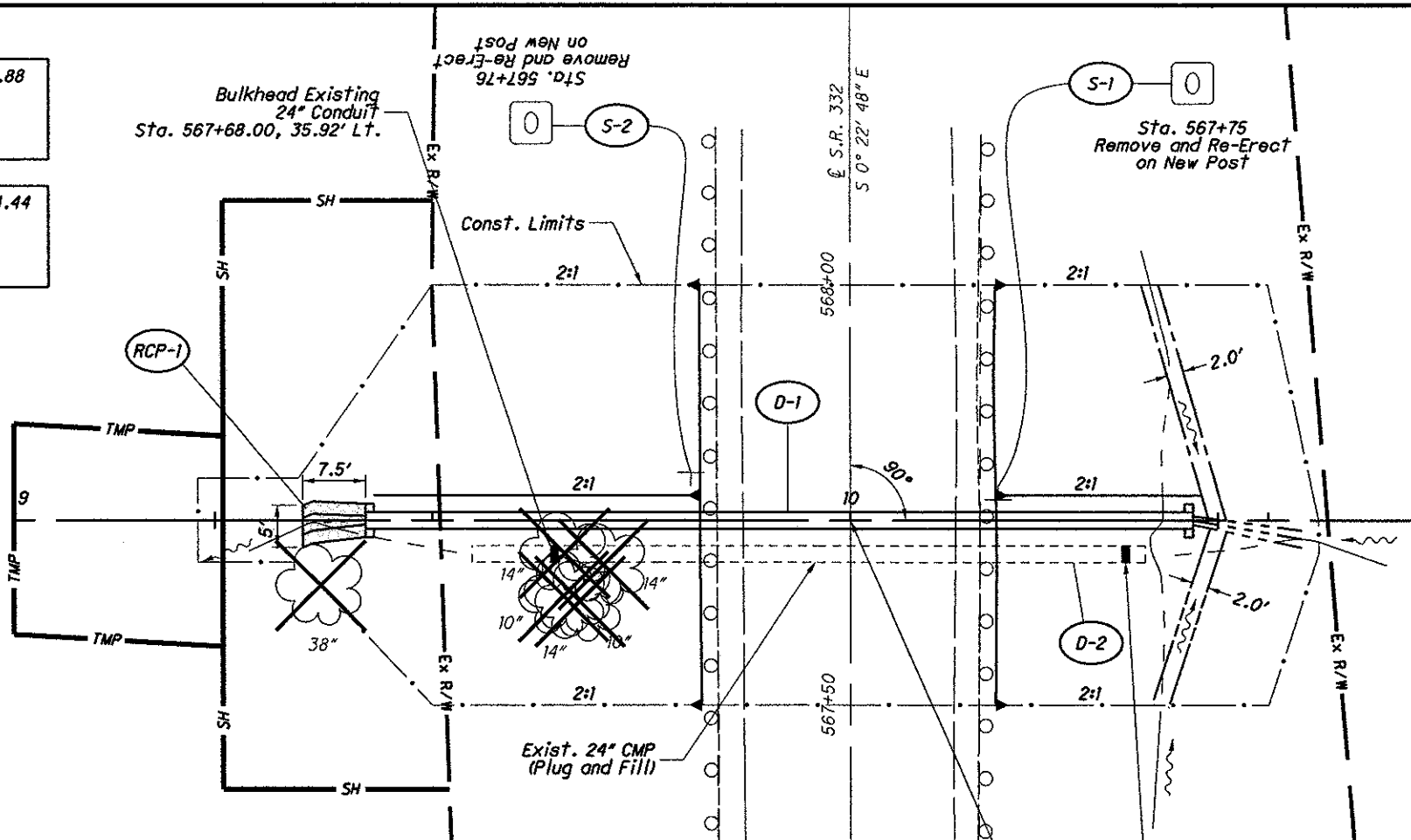
For Calculations and Estimated Quantities, See Sheet No. 6

CALCULATED JPB  
 CHECKED TES  
 HORIZONTAL SCALE IN FEET  
 0 5 10 20  
 CAR-164-1.11  
 CULVERT DETAILS  
 D11-CR-FY2008  
 10/28

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BENCH MARK STA. 565+12.88  
CONCRETE MONUMENT  
15.70' RIGHT  
ELEVATION = 1018.24

BENCH MARK STA. 570+94.44  
CONCRETE MONUMENT  
17.69' LEFT  
ELEVATION = 1026.80



HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 332	567+50.00	£	280,746.91	2,362,080.19	1022.17
S.R. 332	568+00.00	£	280,696.92	2,362,080.52	1022.97

Item 601 - Rock Channel Protection, Type C with Filter  
 (RCP-1) CADD Area = 34.3 sq. ft.  
 34.3 sq. ft. x 1.5' ÷ 27 = 1.9 cu. yd. (USE 2 cu. yd.)

Prop. Culvert  
 S 89° 37' 12" W

- Item 203 - Excavation ----- 20 Cu Yd
- Item 203 - Embankment ----- 235 Cu Yd
- Item 659 - Seeding and Mulching ----- 431 Sq Yd
- Item 659 - Commercial Fertilizer  
 431 sq. yd. x 9 x 30 lb/1000 sq. ft. x (1/2000) = 0.06 Ton
- Item 659 - Lime  
 431 sq. yd. x 9 ÷ 43560 sq. ft./Acre = 0.09 Acre
- Item 659 - Water  
 431 sq. yd. x 9 x 300 Gal./1000 sq. ft. ÷ 1000 x 2 app. = 2.3 M Gal  
 (Use 2 M Gal)

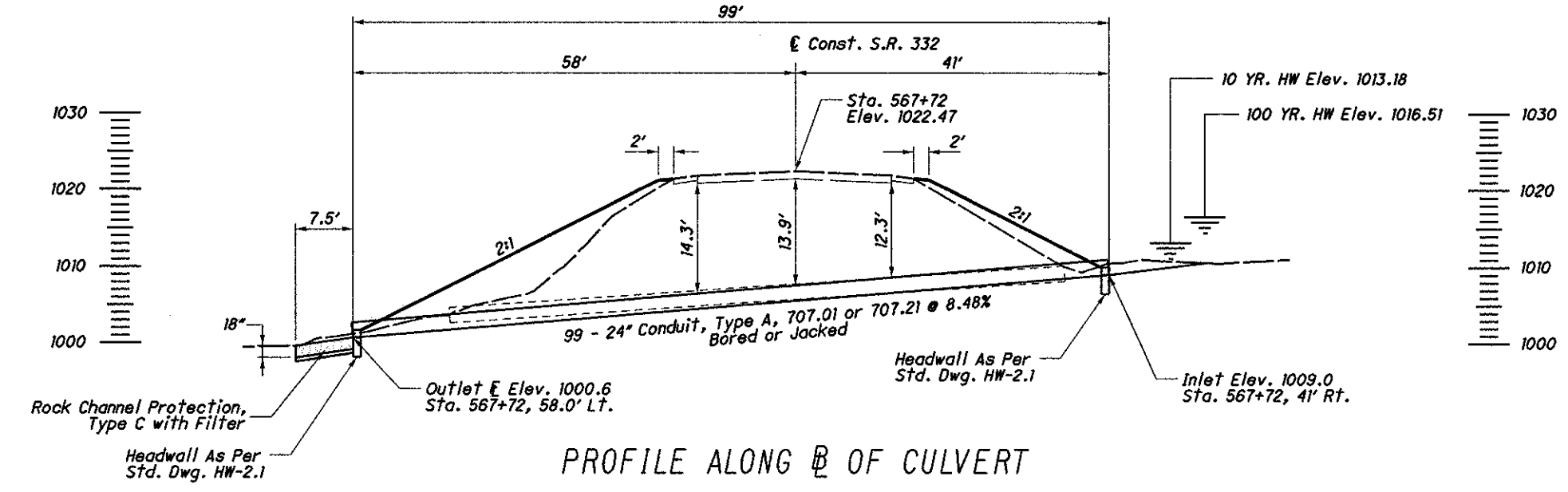
ALL TOTALS CARRIED TO THE GENERAL SUMMARY.

REF NO.	STATION		SIDE	601	602	603	SPECIAL	630		
	FROM	TO		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	CONCRETE MASONRY	CONDUIT BORED OR JACKED, 24", TYPE A, 707.01 or 707.21	FILL AND PLUG EXISTING CONDUIT	GROUND MOUNTED SUPPORT, NO. 2 POST	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
				CY YD	CY YD	FT	FT	FT	EACH	EACH
RCP-1	567+72.00		LT.	2						
D-1	567+72.00		LT.&RT.		0.92	99				
D-2	567+68.00		LT.&RT.				69			
S-1	567+75		RT.					9.5	1	1
S-2	567+76		LT.					9.5	1	1
TOTALS CARRIED TO GENERAL SUMMARY				2	0.9	99	69	19	2	2

HYDRAULIC DESIGN DATA	
Drainage Area	= 12.7 Ac.
Q <sub>10</sub>	= 24 cfs
Q <sub>100</sub>	= 36 cfs
HW <sub>10</sub>	= 1013.18
HW <sub>100</sub>	= 1016.51
V <sub>10</sub>	= 11.91 fps
V <sub>100</sub>	= 12.54 fps

EXISTING STRUCTURE	
TYPE:	CMP
SIZE:	24" x 80.5'
SKEW:	NONE
ALIGNMENT:	TANGENT
DATE BUILT:	1940

PROPOSED STRUCTURE	
TYPE:	CMP
SIZE:	24" x 99'
SKEW:	NONE
ALIGNMENT:	TANGENT



PROFILE ALONG C OF CULVERT

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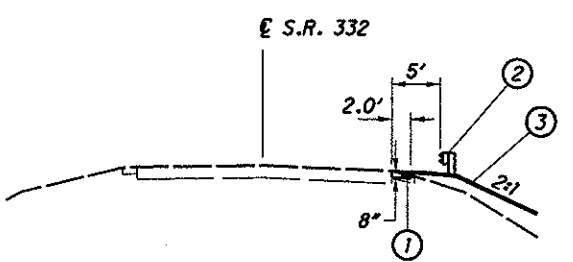
CALCULATED BY: TES  
 CHECKED BY: JPB  
 HORIZONTAL SCALE IN FEET  
 1" = 20'  
 1" = 28'  
 D11-CR-FY2008  
 CULVERT DETAILS - CAR-332-0.00

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 332	301+00	€	304,287.47	2,354,671.16	1142.76
S.R. 332	301+50	€	304,238.09	2,354,679.01	1142.64

BENCH MARK STA. 299+76.05  
CONCRETE MONUMENT  
20.94' LEFT  
ELEVATION = 1145.77

BENCH MARK STA. 302+14.35  
CONCRETE MONUMENT  
19.28' LEFT  
ELEVATION = 1142.66

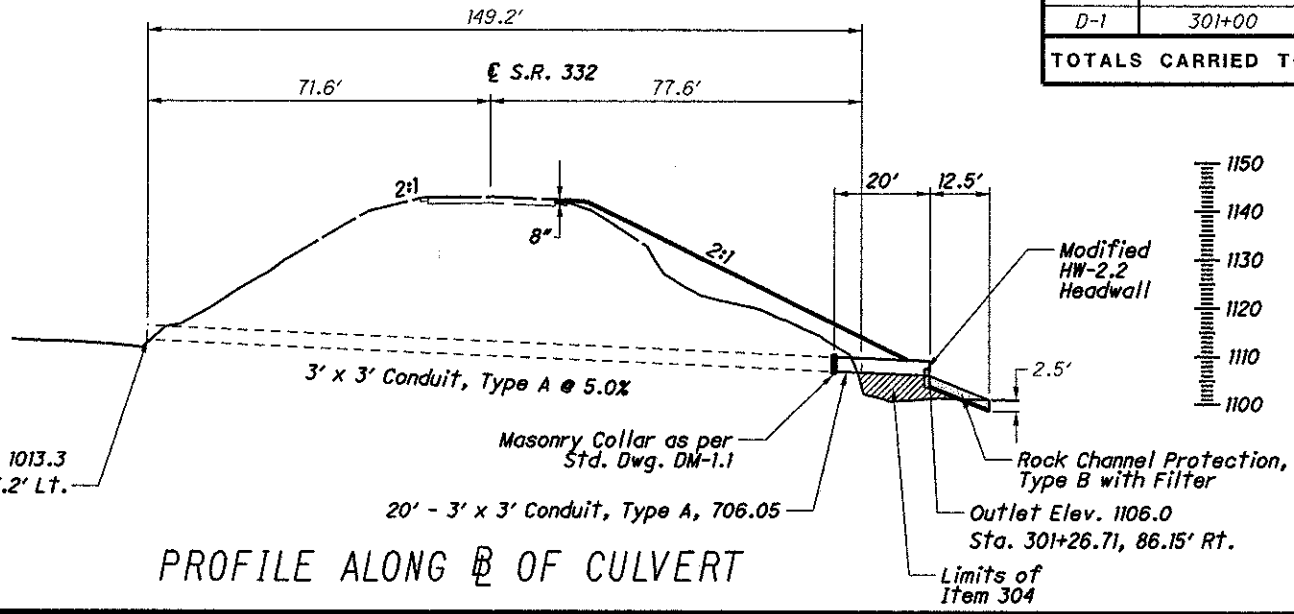
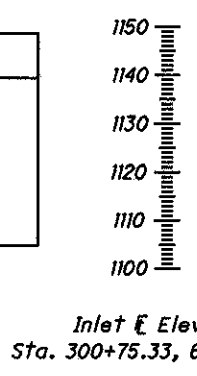
- PROPOSED LEGEND**
- ① ITEM 304 - Aggregate Base
  - ② ITEM 606 - Guardrail, Type 5
  - ③ ITEM 659 - Seeding and Mulching



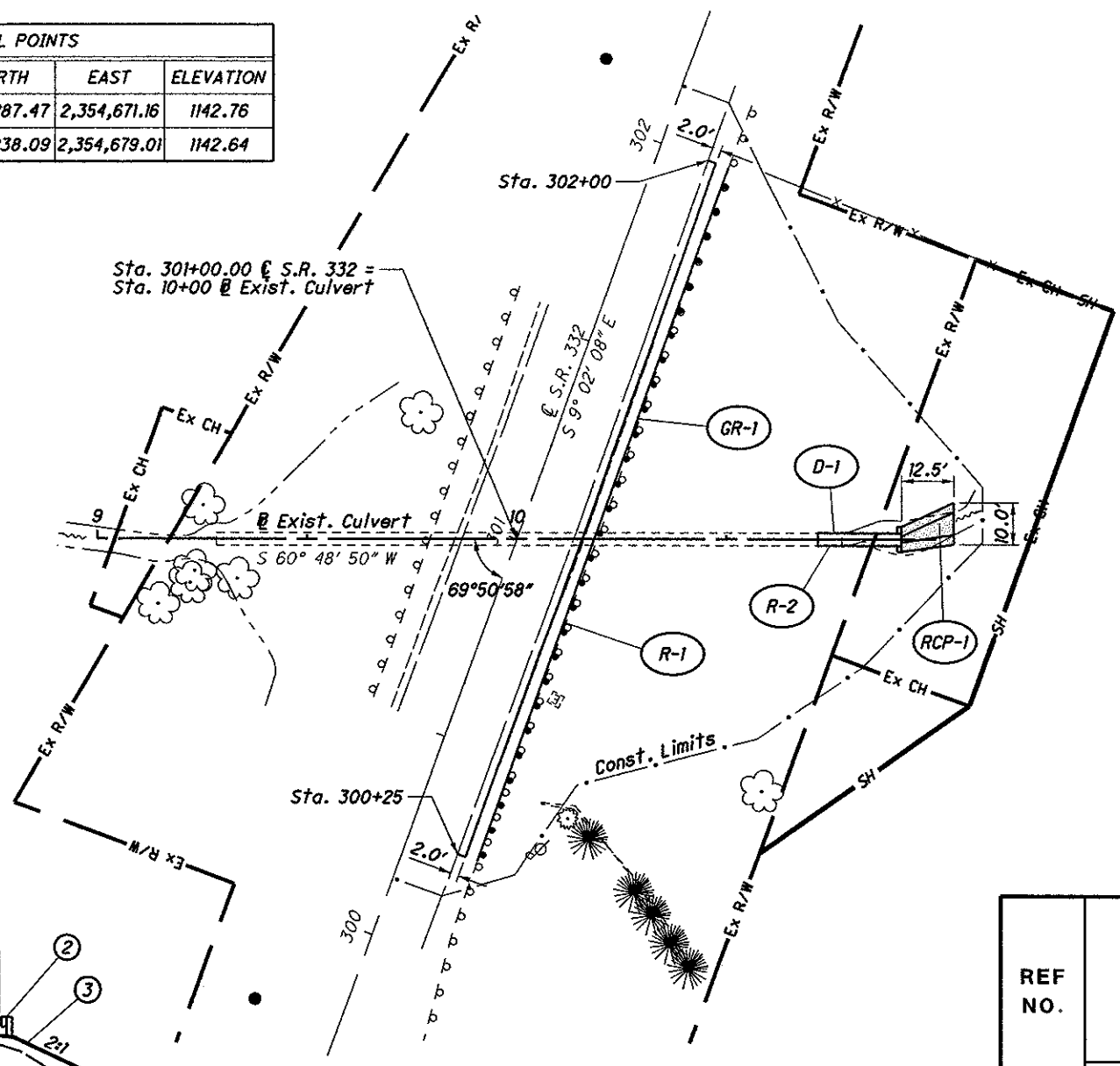
**TYPICAL SECTION - S.R. 332**  
SECTION APPLIES:  
Sta. 300+25.00 to Sta. 302+00.00

**EXISTING STRUCTURE**

TYPE: CONCRETE BOX  
SIZE: 3' x 3'  
SKEW: 20°9'2" R.F.  
ALIGNMENT: TANGENT  
DATE BUILT: 1934



**Item 601 - Rock Channel Protection, Type B with Filter**  
CADD Area = 100.2 sq. ft.  
100.2 sq. ft. x 2.5' ÷ 27 = 9.3 cu. yd. (USE 9 Cu Yd)

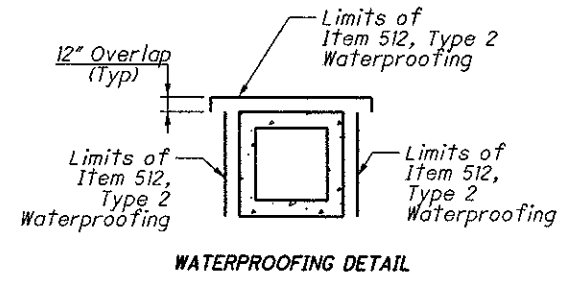
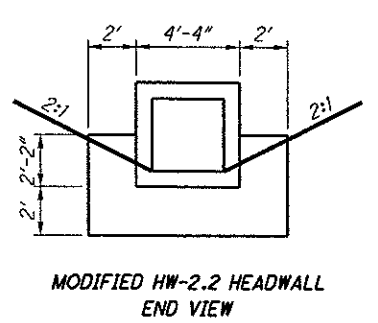


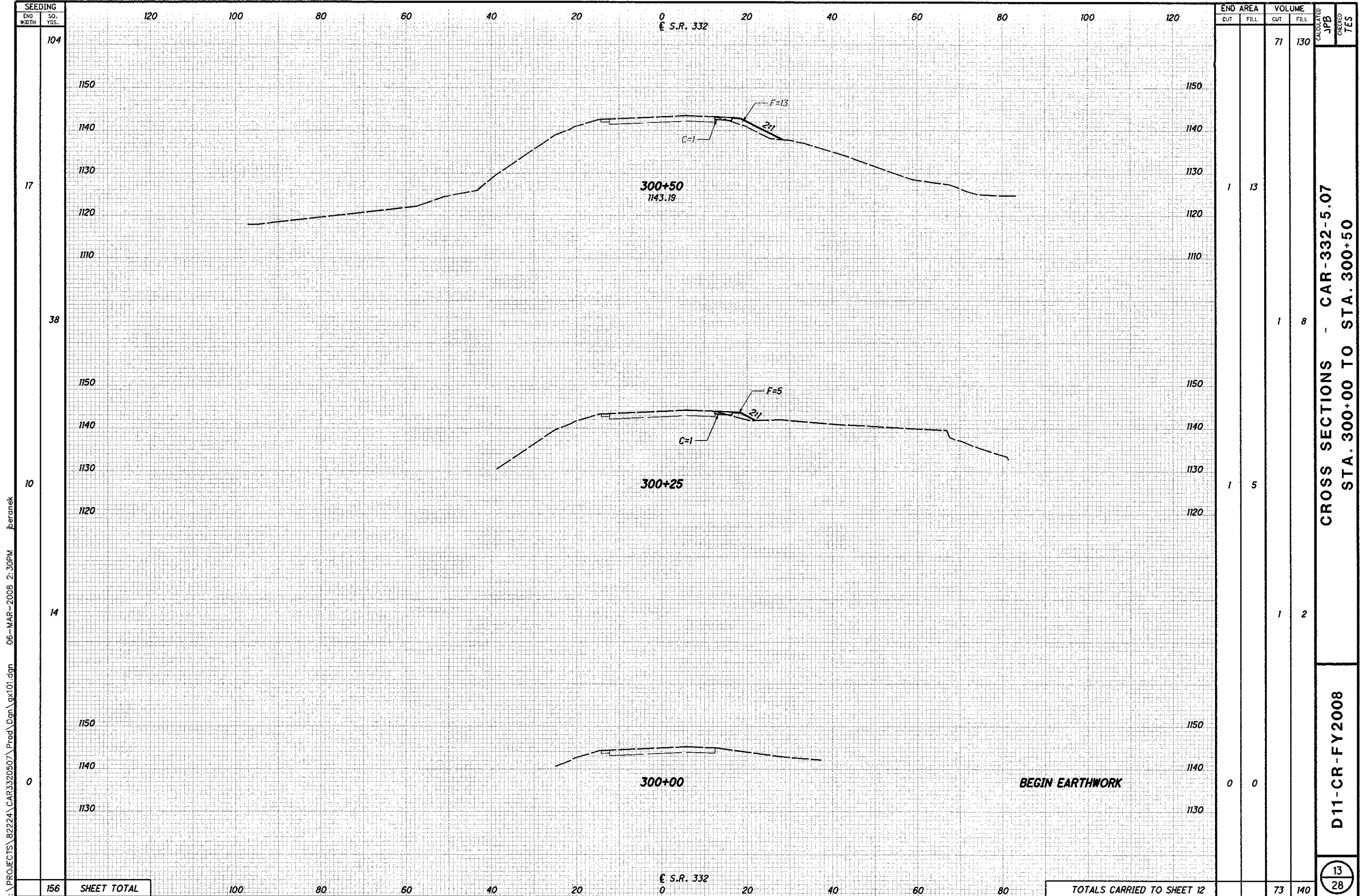
- Item 203 - Excavation  
(73 + 44) + 252) Cu Yd = 766 Cu Yd
- Item 203 - Embankment  
(140 + 1142 + 364) Cu Yd = 1646 Cu Yd
- Item 659 - Seeding and Mulching  
(156 + 673 + 260) Sq Yd = 1089 Sq Yd
- Item 659 - Commercial Fertilizer  
1089 sq. yd. x 9 x 30 lb/1000 sq. ft. x (1/2000) = 0.15 Ton
- Item 659 - Lime  
1089 sq. yd. x 9 + 43560 sq. ft./Acre = 0.23 Acre
- Item 659 - Water  
1089 sq. yd. x 9 x 300 Gal./1000 sq. ft. ÷ 1000 x 2 app. = 5.82 M Gal Use 6 M Gal
- Item 304 - Aggregate Base (For Area Under Outlet)  
CADD Area = 78.52 sq. ft.  
78.52 sq. ft. x 8.33' + 27 = 24.2 Cu Yd Use 24 Cu Yd
- Item 602 - Concrete Masonry  
(Calculation for HW-2.2 Headwall, modified as per plan.)  
[(4.17' x 8.33' x 1') - (2.17' x 4.33' x 1')] ÷ 27 = 0.94 Cu Yd Use 0.9 Cu Yd
- Item 512 - Type 2 Waterproofing  
Sides of Culvert  
20' x 2 sides x 4.33' ÷ 9 = 19.2 Sq Yd  
Top of Culvert (Including 1' overlap)  
20' x (4.33' + 1' + 1') ÷ 9 = 14.1 Sq Yd  
Total = 33.3 Sq Yd Use 34 Sq Yd

ALL TOTALS CARRIED TO THE GENERAL SUMMARY.

REF NO.	STATION		SIDE	202		601	603	606	626
	FROM	TO		GUARDRAIL REMOVED	PIPE REMOVED, OVER 24"	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONDUIT, MISC. 3' X 3' CONDUIT, TYPE A, 706.05	GUARDRAIL, TYPE 5	BARRIER REFLECTOR, TYPE A2
				FT	FT	CU YD	FT	FT	EACH
R-1	300+25	302+00	RT.	175					
R-2	301+00		RT.		6				
GR-1	300+25	302+00	RT.					175	3
RCP-1	301+00		RT.			9			
D-1	301+00		RT.				20		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>175</b>	<b>6</b>	<b>9</b>	<b>20</b>	<b>175</b>	<b>3</b>

For Cross Sections, See Sheet Nos. 13-15.



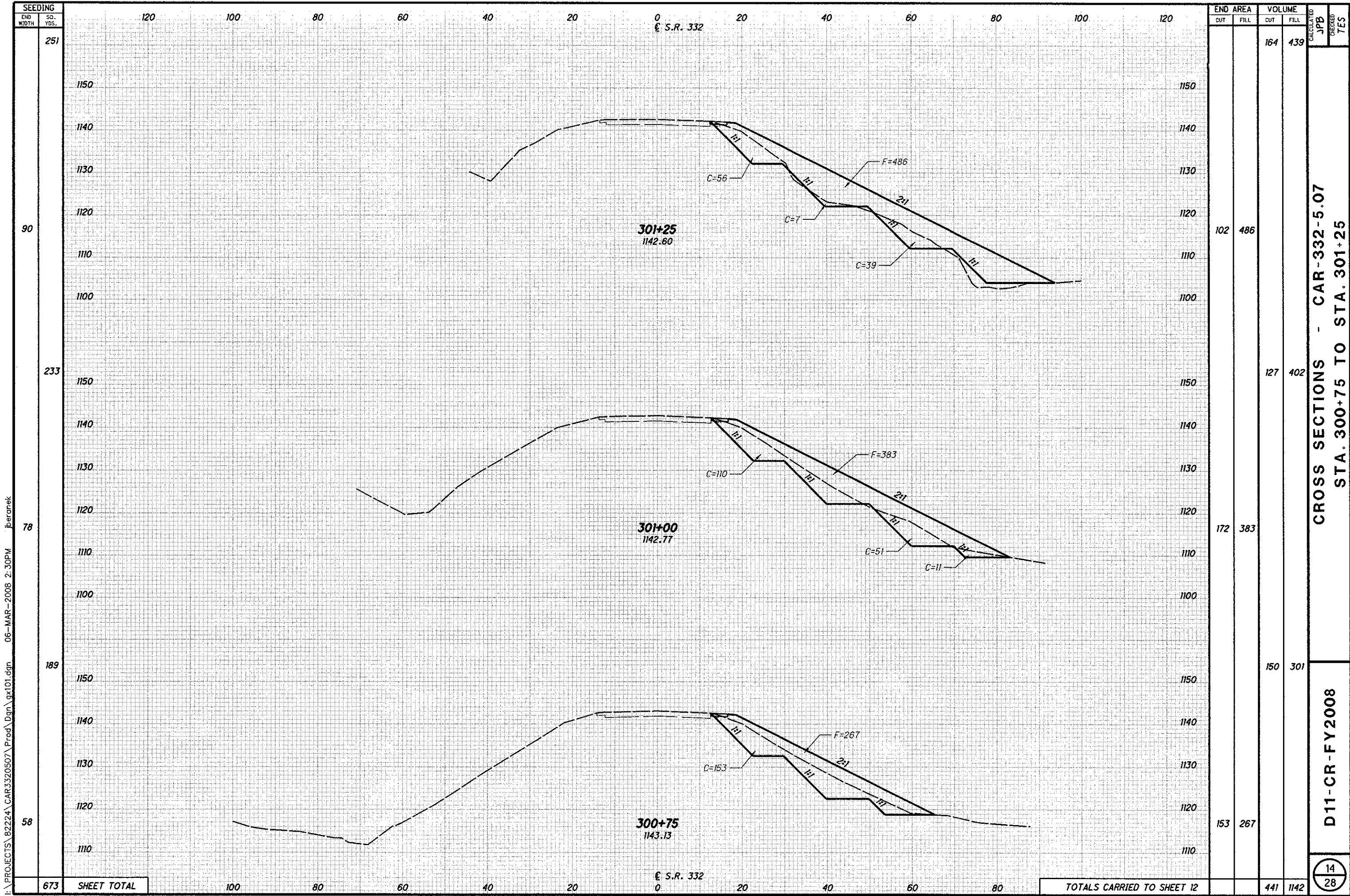


SEEDING  
END WIDTH SQ. YDS.  
104  
17  
38  
10  
14  
0  
156 SHEET TOTAL

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
300+50	1	13	71	130
300+25	1	5	1	8
300+00	0	0	1	2
TOTALS CARRIED TO SHEET 12			73	140

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED JPB  
CHECKED TES  
CROSS SECTIONS - CAR-332-5.07  
STA. 300+00 TO STA. 300+50  
D11-CR-FY2008  
13  
28

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SEEDING  
END WIDTH SO. YDS.

251

90

233

78

189

58

673

END AREA	VOLUME		CALCULATED	CHECKED	
	CUT	FILL			JPB
			164	439	
102	486				
			127	402	
172	383				
			150	301	
153	267				
TOTALS CARRIED TO SHEET 12			441	1142	

CROSS SECTIONS - CAR-332-5.07  
STA. 300+75 TO STA. 301+25

D11-CR-FY2008

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120 100 80 60 40 20 0 20 40 60 80 100 120

100 80 60 40 20 0 20 40 60 80

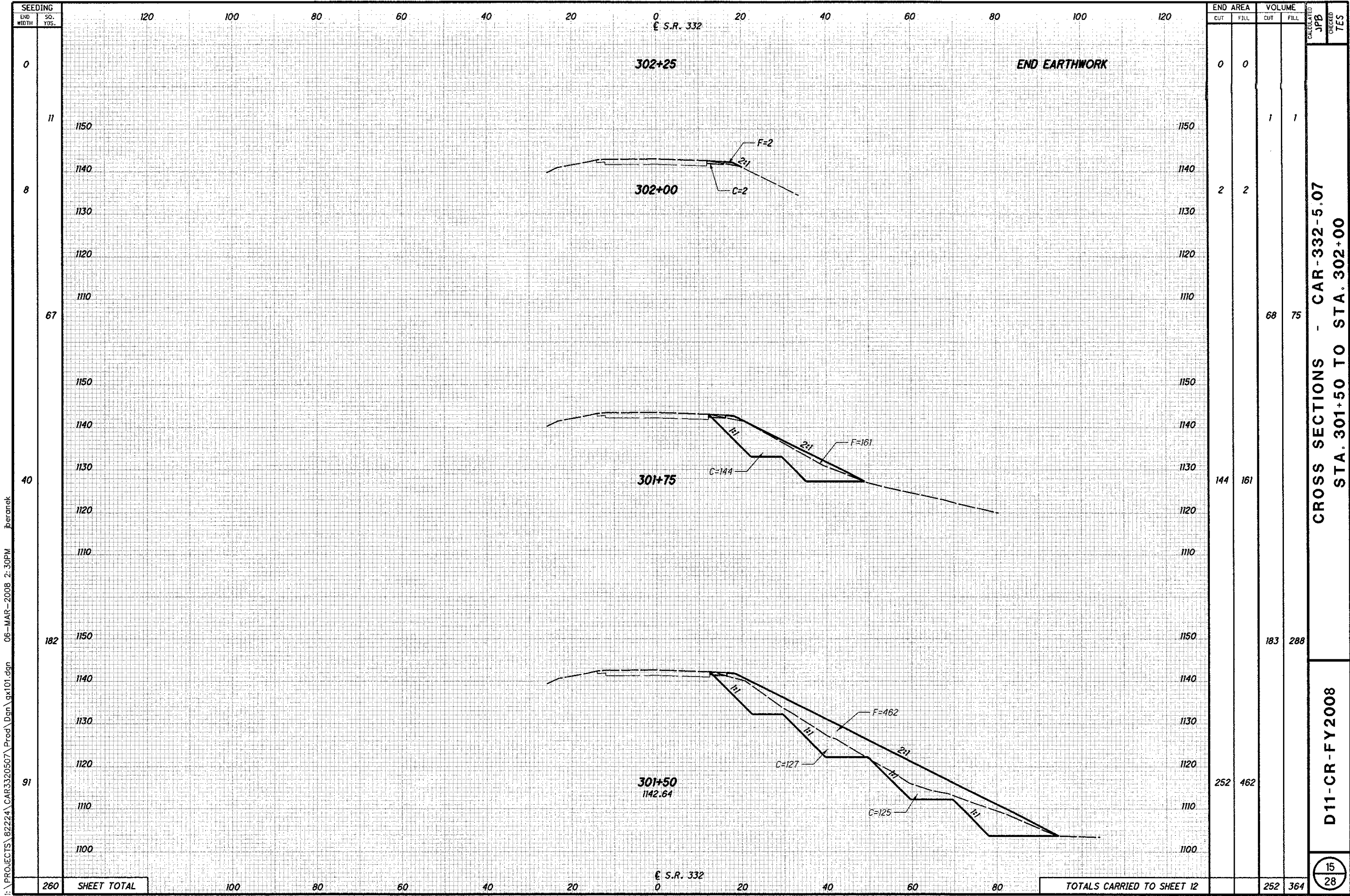
301+25  
1142.60

301+00  
1142.77

300+75  
1143.13

S.R. 332

S.R. 332



SEEDING	
END WIDTH	SO. YDS.
0	
11	
8	
67	
40	
182	
91	
260	SHEET TOTAL

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		1	1
2	2		
		68	75
144	161		
		183	288
252	462		
		252	364

CROSS SECTIONS - CAR-332-5.07  
 STA. 301+50 TO STA. 302+00

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15  
28

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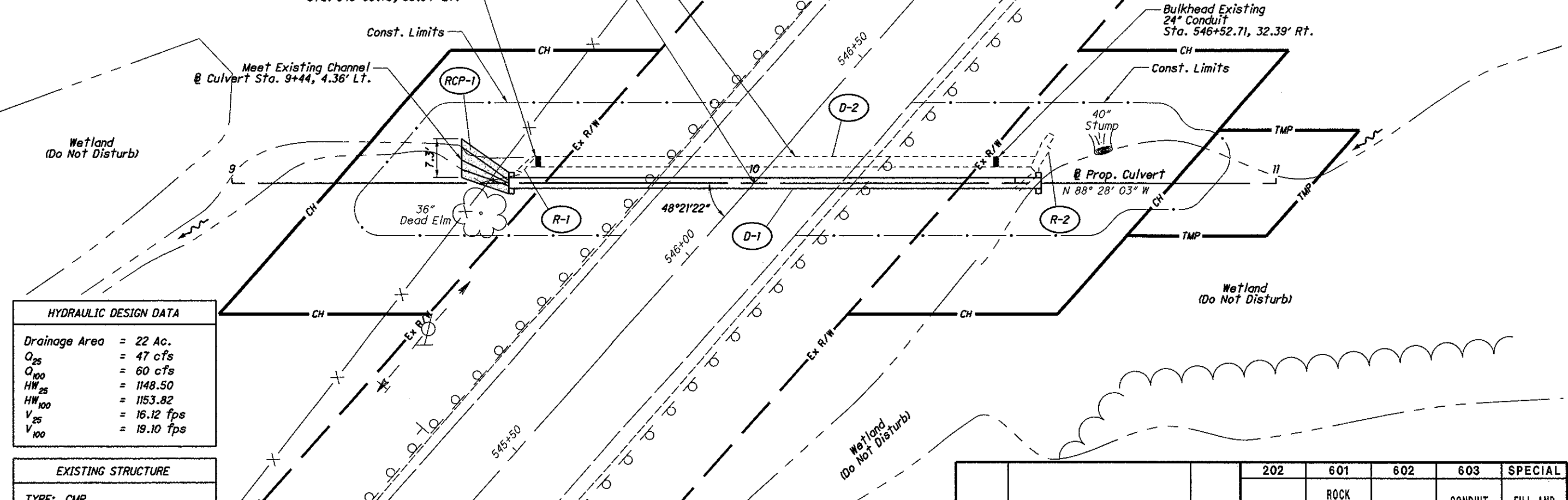
TOTALS CARRIED TO SHEET 12

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 332	546+00	€	319,066.36	2,354,389.26	1154.82
S.R. 332	546+50	€	319,029.89	2,354,355.05	1158.39

Sta. 546+18.56 € S.R. 332  
Sta. 10+00 @ Prop. Culvert

Bulkhead Existing  
24" Conduit  
Sta. 545+93.73, 33.94' Lt.

Item 601 - Rock Channel Protection, Type B with Filter  
RCP-1 CADD Area = 50.9 sq. ft.  
50.9 sq. ft. x 2.5' + 27 = 4.7 cu. yd. (USE 5 cu. yd.)



HYDRAULIC DESIGN DATA	
Drainage Area	= 22 Ac.
$Q_{25}$	= 47 cfs
$Q_{100}$	= 60 cfs
$HW_{25}$	= 1148.50
$HW_{100}$	= 1153.82
$V_{25}$	= 16.12 fps
$V_{100}$	= 19.10 fps

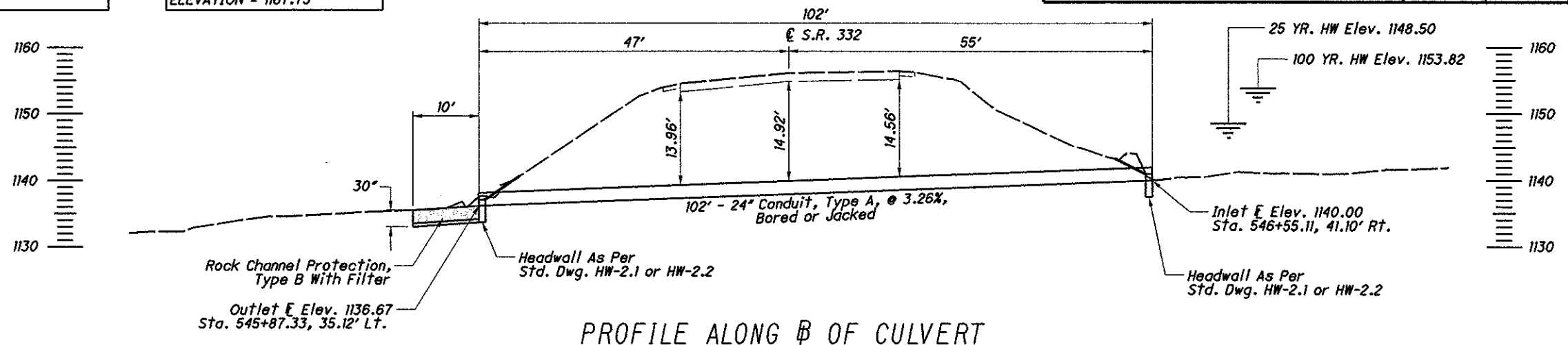
EXISTING STRUCTURE	
TYPE:	CMP
SIZE:	24" x 100'
SKEW:	41°38'38" R.F.
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN

PROPOSED STRUCTURE	
TYPE:	Type A
SIZE:	24" x 102'
SKEW:	41°38'38" R.F.
ALIGNMENT:	TANGENT

BENCH MARK STA. 543+61.75  
CONCRETE MONUMENT  
21.94' LEFT  
ELEVATION = 1144.25

BENCH MARK STA. 547+75.12  
CONCRETE MONUMENT  
22.08' RIGHT  
ELEVATION = 1167.75

REF NO.	STATION		SIDE	202	601	602	603	SPECIAL
	FROM	TO		HEADWALL REMOVED	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	CONDUIT BORED OR JACKED: 24" TYPE A	FILL AND PLUG EXISTING CONDUIT
				EACH	CY YD	CY YD	FT	FT
R-1	545+93		LT.	1				
R-2	546+57		RT.	1				
RCP-1	546+18.56		LT.		5			
D-1	546+18.56		LT.&RT.			0.92	102	
D-2	546+23.91		LT.&RT.					89
TOTALS CARRIED TO GENERAL SUMMARY				2	5	0.9	102	89



PROFILE ALONG @ OF CULVERT

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N

HORIZONTAL SCALE IN FEET

CALCULATED JPB  
CHECKED TES

CULVERT DETAILS - CAR-332-7.98

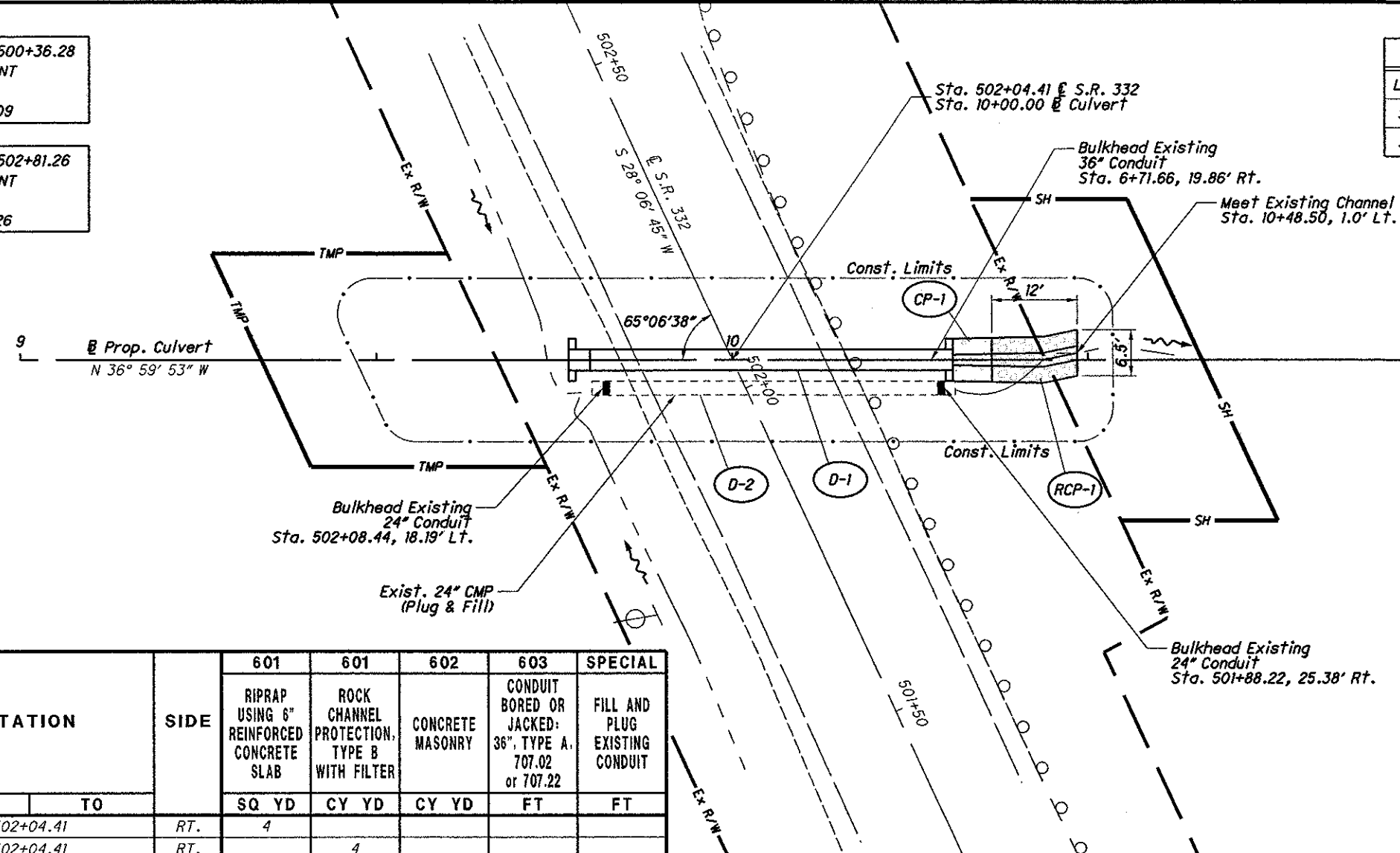
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16  
28

BENCH MARK STA. 500+36.28  
CONCRETE MONUMENT  
16.64' LEFT  
ELEVATION = 1133.09

BENCH MARK STA. 502+81.26  
CONCRETE MONUMENT  
18.03' RIGHT  
ELEVATION = 1135.26

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 332	501+50.00	€	322,508.11	2,355,698.68	1133.07
S.R. 332	502+00.00	€	322,464.01	2,355,675.12	1133.83



Item 601 - Riprap Using 6" Reinforced Concrete Slab  
 CP-1 CADD Area = 33.6 sq. ft.  
 33.6 sq. ft. ÷ 9 = 3.7 sq. yd. (USE 4 sq. yd.)

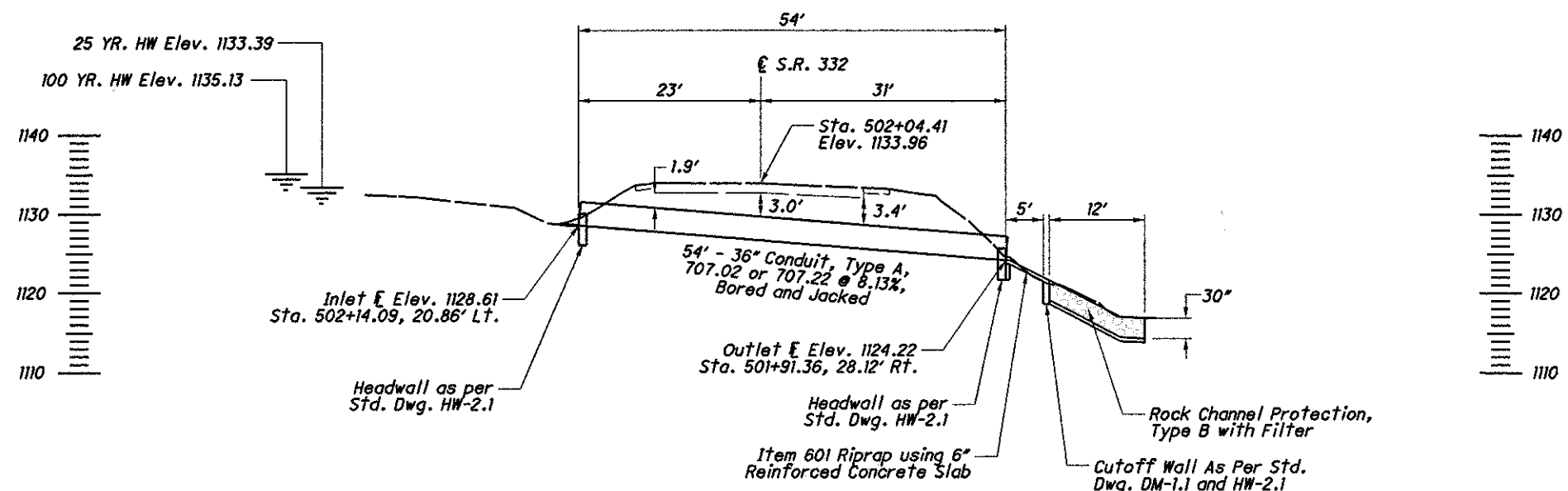
Item 601 - Rock Channel Protection, Type B with Filter  
 RCP-1 CADD Area = 41.3 sq. ft.  
 41.3 sq. ft. x 2.5' ÷ 27 = 3.8 cu. yd. (USE 4 cu. yd.)

REF NO.	STATION		SIDE	601	601	602	603	SPECIAL
	FROM	TO		RIPRAP USING 6" REINFORCED CONCRETE SLAB	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	CONDUIT BORED OR JACKED: 36", TYPE A, 707.02 or 707.22	FILL AND PLUG EXISTING CONDUIT
				SQ YD	CY YD	CY YD	FT	FT
CP-1	502+04.41		RT.	4				
RCP-1	502+04.41		RT.		4			
D-1	502+04.41		LT.&RT.			1.78	54	
D-2	502+00.00		LT.&RT.					48
TOTALS CARRIED TO GENERAL SUMMARY				4	4	1.8	54	48

HYDRAULIC DESIGN DATA	
Drainage Area	= 26 Ac.
Q <sub>25</sub>	= 54 cfs
Q <sub>100</sub>	= 68 cfs
HW <sub>25</sub>	= 1133.39
HW <sub>100</sub>	= 1135.13
V <sub>25</sub>	= 14.70 fps
V <sub>100</sub>	= 15.51 fps

EXISTING STRUCTURE	
TYPE:	CMP
SIZE:	24" x 51"
SKREW:	24°53'22" L.F.
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN

PROPOSED STRUCTURE	
TYPE:	CMP
SIZE:	36" x 54"
SKREW:	24°53'22" L.F.
ALIGNMENT:	TANGENT



PROFILE ALONG @ OF CULVERT

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HORIZONTAL SCALE IN FEET

CALCULATED JPB  
CHECKED TES

CULVERT DETAILS - CAR-332-8.70

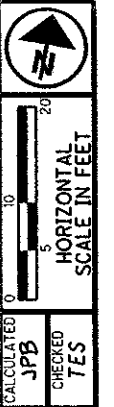
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28

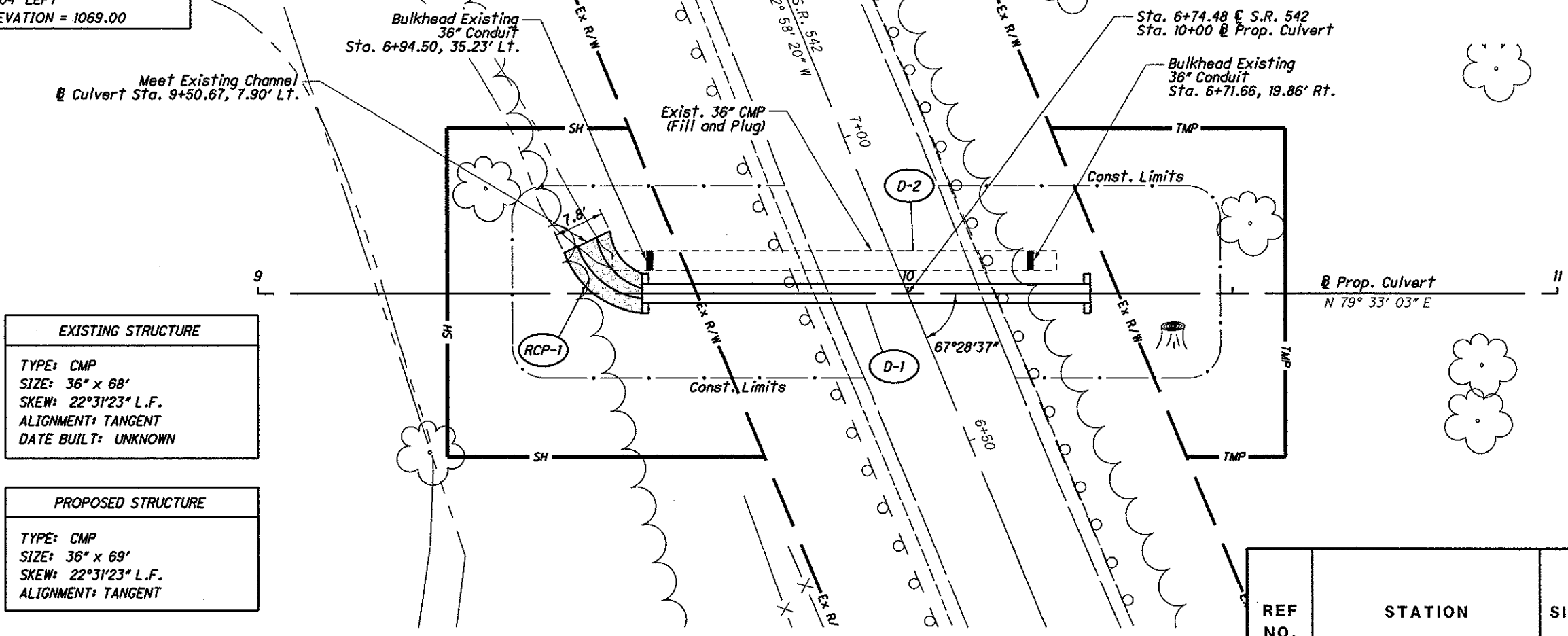
BENCH MARK STA. 0+93.70  
CONCRETE MONUMENT  
23.08' RIGHT  
ELEVATION = 1106.53

BENCH MARK STA. 11+07.19  
CONCRETE MONUMENT  
19.64' LEFT  
ELEVATION = 1069.00

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 542	6+50.00	€	344,830.41	2,309,652.49	1051.16
S.R. 542	7+00.00	€	344,872.36	2,309,625.28	1049.41



CALCULATED JPB  
CHECKED TES  
CULVERT DETAILS - CAR-542-12.36



**EXISTING STRUCTURE**

TYPE: CMP  
SIZE: 36" x 68"  
SKEW: 22°31'23" L.F.  
ALIGNMENT: TANGENT  
DATE BUILT: UNKNOWN

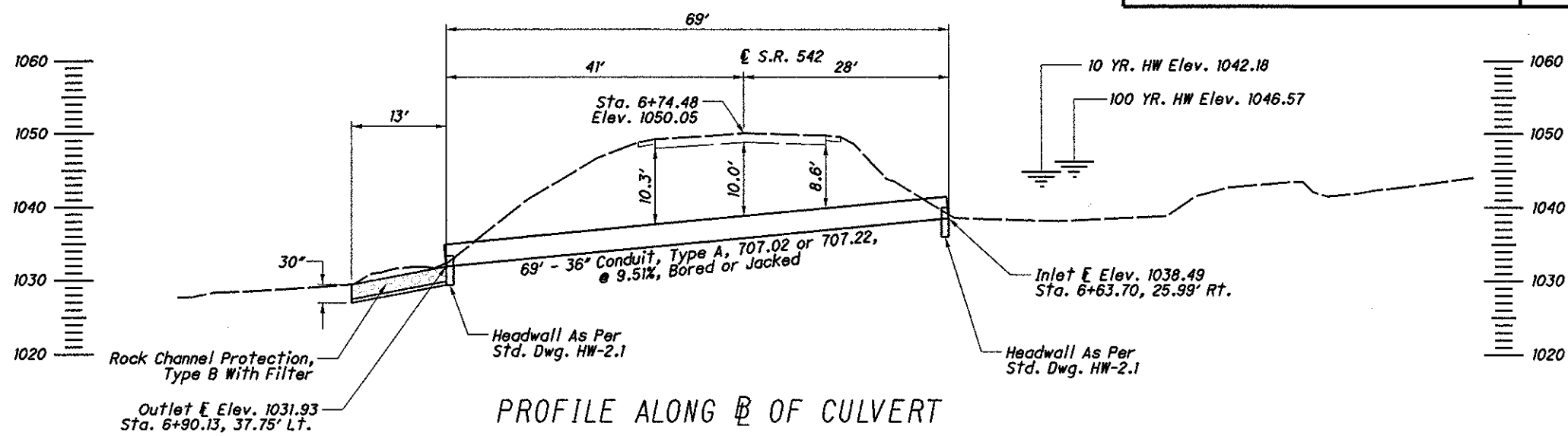
**PROPOSED STRUCTURE**

TYPE: CMP  
SIZE: 36" x 69"  
SKEW: 22°31'23" L.F.  
ALIGNMENT: TANGENT

REF NO.	STATION	SIDE	601	602	603	SPECIAL
			ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CONCRETE MASONRY	CONDUIT BORED OR JACKED: 36" TYPE A, 707.02 OR 707.22	FILL AND PLUG EXISTING CONDUIT
	FROM	TO	CY YD	CY YD	FT	FT
RCP-1	6+74.48		8			
D-1	6+74.48	LT.&RT.		1.52	69	
D-2	6+79.89	LT.&RT.				60
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>			<b>8</b>	<b>1.5</b>	<b>69</b>	<b>60</b>

**Item 601 - Rock Channel Protection, Type B with Filter**

**RCP-1** CADD Area = 83.1 sq. ft.  
83.1 sq. ft. x 2.5' ÷ 27 = 7.7 cu. yd. (USE 8 cu. yd.)



**HYDRAULIC DESIGN DATA**

Drainage Area = 48 Ac.  
 $Q_{10}$  = 43 cfs  
 $Q_{100}$  = 79 cfs  
 $HW_{10}$  = 1042.18  
 $HW_{100}$  = 1046.57  
 $V_{10}$  = 14.69 fps  
 $V_{100}$  = 17.04 fps

PROFILE ALONG @ OF CULVERT

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HORIZONTAL SCALE IN FEET

CALCULATED JPB CHECKED TES

CULVERT DETAILS - HAS-799-5.08

D11-CR-FY2008

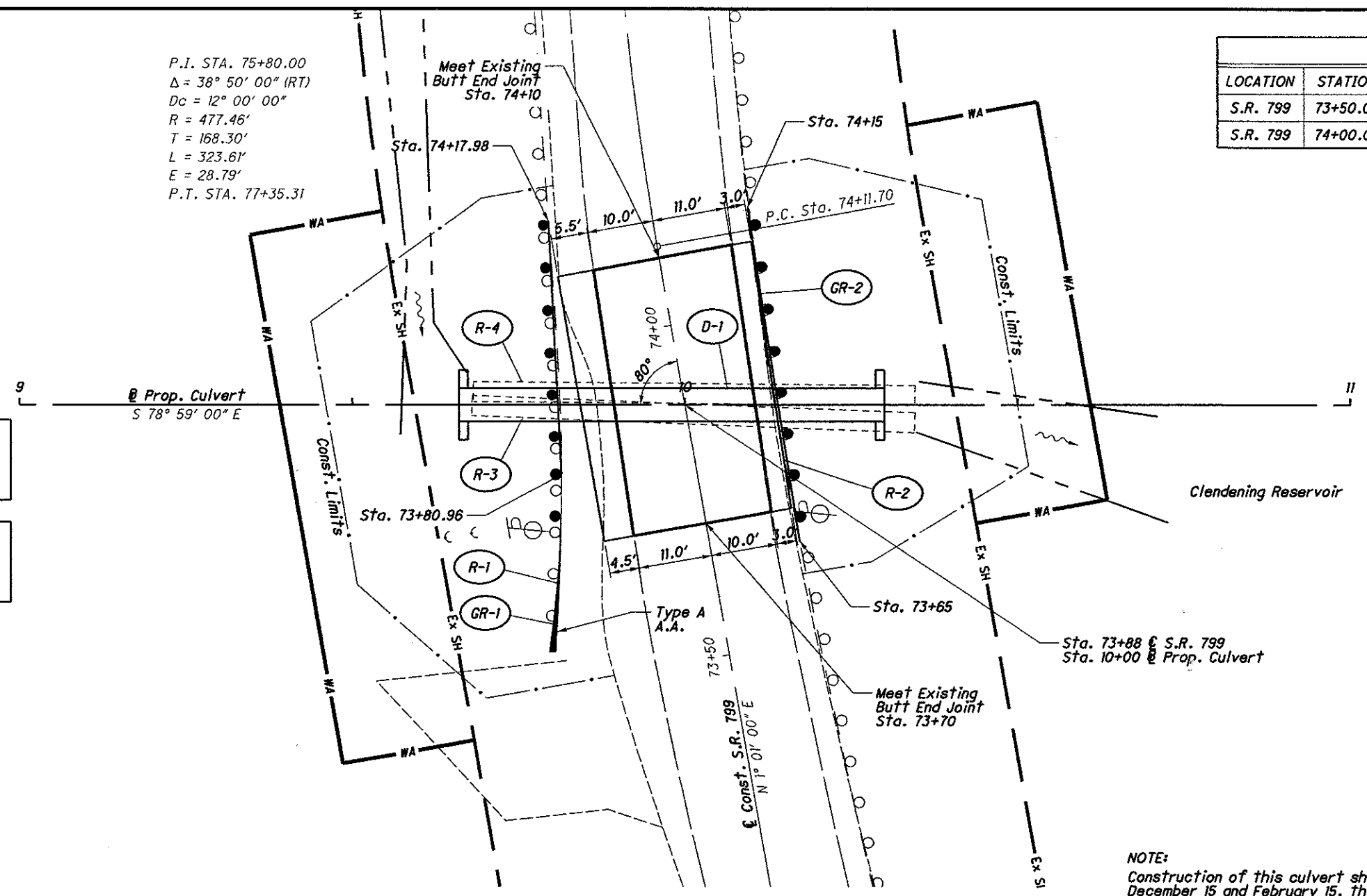
28

HORIZONTAL CONTROL POINTS					
LOCATION	STATION	OFFSET	NORTH	EAST	ELEVATION
S.R. 799	73+50.00	€	219,081.12	2,332,525.06	902.71
S.R. 799	74+00.00	€	219,131.11	2,332,525.94	902.27

HYDRAULIC DESIGN DATA	
Drainage Area	= 431 Ac.
$Q_{10}$	= 176 cfs
$Q_{100}$	= 311 cfs
$HW_{10}$	= 899.17
$HW_{100}$	= 904.41
$V_{10}$	= 15.43 fps
$V_{100}$	= 15.84 fps

EXISTING STRUCTURE	
TYPE:	TWIN 36" CMP
SIZE:	36" x 66"
SKEW:	10° L.F.
ALIGNMENT:	TANGENT
DATE BUILT:	1948

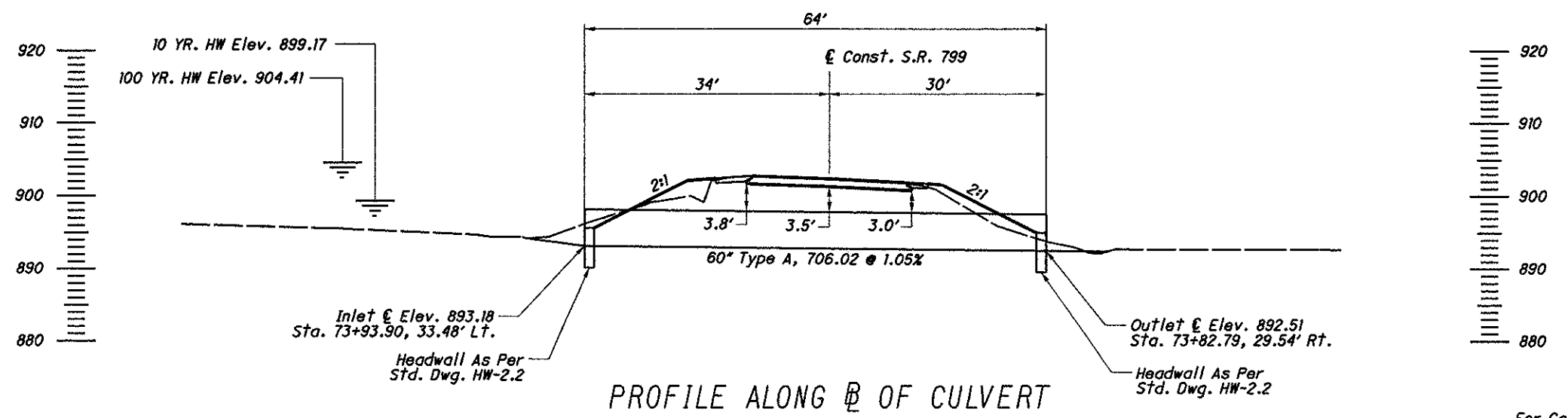
PROPOSED STRUCTURE	
TYPE:	TYPE A, CONCRETE
SIZE:	60" x 64"
SKEW:	10° L.F.
ALIGNMENT:	TANGENT



BENCH MARK STA. 72+27.49  
CONCRETE MONUMENT  
29.40' RIGHT  
ELEVATION = 903.89

BENCH MARK STA. 76+12.40  
CONCRETE MONUMENT  
14.58' LEFT  
ELEVATION = 902.29

NOTE:  
Construction of this culvert shall begin and end between December 15 and February 15, the dates of the lowest water elevation of Clendening Reservoir.



PROFILE ALONG € OF CULVERT

For Calculations and Estimated Quantities, See Sheet No. 6

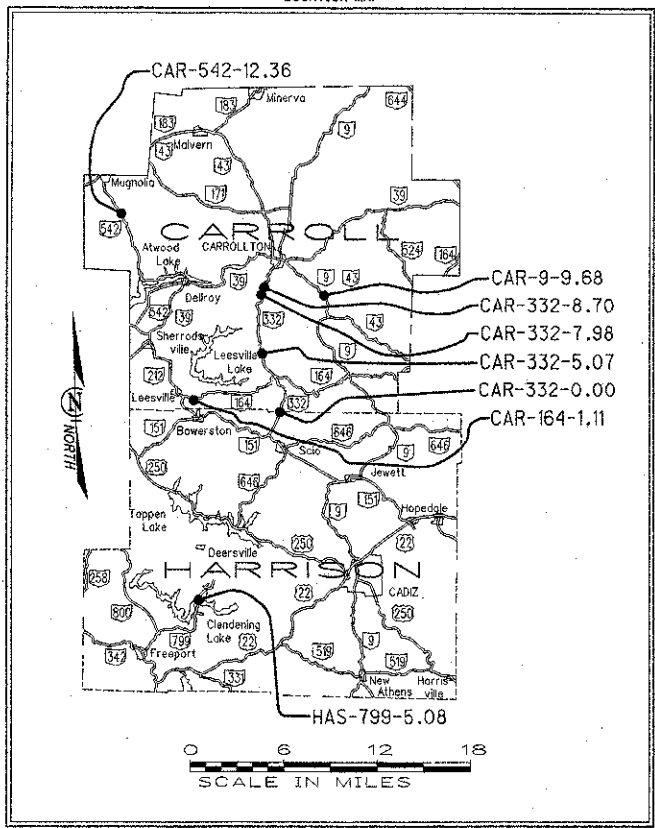
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# RIGHT OF WAY LEGEND SHEET

## CARROLL & HARRISON COUNTIES

**PROJECT DESCRIPTION**  
 THIS PROJECT CONSISTS OF THE REHABILITATION OF EIGHT CULVERTS LOCATED IN CARROLL AND HARRISON COUNTIES WITH MINIMAL ROADWAY WORK INCLUDING EMBANKMENT RECONSTRUCTION AND GUARDRAIL.

**PLANS PREPARED BY:**  
 FIRM NAME : THOMAS FOK & ASSOCIATES, INC.  
 PLANS PREPARED BY: JOSEPH P. SLIFKA  
 FIELD REVIEW BY: JON PENIX & RICK CELESTINO  
 DATE COMPLETED: FEBRUARY 2007  
 OWNERSHIP VERIFIED BY: THOMAS FOK & ASSOCIATES, INC.  
 DATE COMPLETED: 04/30/07  
 DATE COMPLETED: 05/01/07



**STRUCTURE KEY**

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

**MONUMENT LEGEND**

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- / RAILROAD SPIKE FOUND
- \ RAILROAD SPIKE SET
- C.I.R.F. IRON PIN FOUND
- C.I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
- I.P.S. IRON PIPE FOUND
- I.P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

**CONVENTIONAL SYMBOLS**

- |   |  |
|---|--|
| County Line <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Ditch / Creek (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   |
| Township Line <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Ditch / Creek (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   |
| Section Line <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>  | Tree Line (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   |
| Corporation Line <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> or <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>           | Ownership Hook Symbol <span style="font-size: 2em;">Z</span> , Example <span style="font-size: 2em;">Z</span>  |
| Fence Line (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>          | Property Line Symbol <span style="font-size: 2em;">P</span> , Example <span style="font-size: 2em;">P</span>   |
| Center Line <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Break Line Symbol <span style="font-size: 2em;">V</span> , Example <span style="font-size: 2em;">V</span>  |
| Right of Way (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> Ex R/W <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>      | Tree (Pr) <span style="font-size: 1.5em;">T</span> , Tree (Ex) <span style="font-size: 1.5em;">T</span> , Shrub (Ex) <span style="font-size: 1.5em;">S</span>        |
| Right of Way (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> R/W <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>         | Tree (Remove) <span style="font-size: 1.5em;">T</span> , Shrub (Remove) <span style="font-size: 1.5em;">S</span>   |
| Standard Highway Ease.(Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> SH <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> | Evergreen (Ex) <span style="font-size: 1.5em;">E</span> , Stump <span style="font-size: 1.5em;">S</span>   |
| Temporary Right of Way <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> TMP <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>    | Evergreen (Remove) <span style="font-size: 1.5em;">E</span> , Stump (Remove) <span style="font-size: 1.5em;">S</span>  |
| Channel Ease. (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> Ex CH <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>      | Wetland (Pr) <span style="font-size: 1.5em;">W</span> , Grass (Pr) <span style="font-size: 1.5em;">G</span> , Aerial Target <span style="font-size: 1.5em;">A</span> |
| Work Agreement (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> WA <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>        | Post (Ex) <span style="font-size: 1.5em;">P</span> , Mailbox (Ex) <span style="font-size: 1.5em;">M</span> , Mailbox (Pr) <span style="font-size: 1.5em;">M</span>   |
| Railroad <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> or <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>                   | Light (Ex) <span style="font-size: 1.5em;">L</span> , Telephone Marker (Ex) TEL  |
| Guardrail (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span> (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>           | Fire Hydrant (Ex) <span style="font-size: 1.5em;">F</span> , Water Meter (Ex) <span style="font-size: 1.5em;">W</span>   |
| Construction Limits <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Water Valve (Ex) <span style="font-size: 1.5em;">V</span> , Utility Valve Unknown (Ex.) <span style="font-size: 1.5em;">U</span>                                     |
| Edge of Pavement (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Telephone Pole (Ex) <span style="font-size: 1.5em;">P</span> , Power Pole (Ex) <span style="font-size: 1.5em;">P</span>  |
| Edge of Pavement (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   | Light Pole (Ex) <span style="font-size: 1.5em;">L</span>   |
| Edge of Shoulder (Ex) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   |  |
| Edge of Shoulder (Pr) <span style="border-bottom: 1px dashed black; width: 100px; display: inline-block;"></span>   |  |

**LEGEND:**  
 SH = STANDARD HIGHWAY EASEMENT  
 T = TEMPORARY EASEMENT  
 WA = WORK AGREEMENT  
 CH = CHANNEL EASEMENT

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

I, J. Carice Jameson, P. S. have conducted a survey of the existing conditions for the Ohio Department of Transportation in January 2007. The results of that survey are contained herein.

As a part of this project I have reestablished the locations of the existing centerline of Right of Way for property takes contained herein.

The words I and my as used herein are to mean that either myself or someone working under my direct supervision.

*J. Carice Jameson*  
 J Carice Jameson, Professional Land Surveyor No. 8166

Date: 05/04/07

SURVEYORS SEAL

SIGNED: *J. Carice Jameson*  
 DATE: 05/04/07

I, William J. Sala, P.S., have conducted a survey for the Ohio Department of Transportation during March 2007. The results of that survey are contained herein.

Further more; I have calculated the proposed easement lines, Gross Take, Present Roadway Occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire these parcels as shown herein.

As a part of this project I have determined the locations of the existing property lines for property takes contained herein.

All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as Minimum Standards for Boundary Survey in the State of Ohio unless so noted.

The words I and my as used herein are to mean that either myself or someone working for me under my direct control or supervision.

*William J. Sala*  
 William J. Sala, Professional Land Surveyor No. 5-6542

Date: 05/01/07

SURVEYORS SEAL

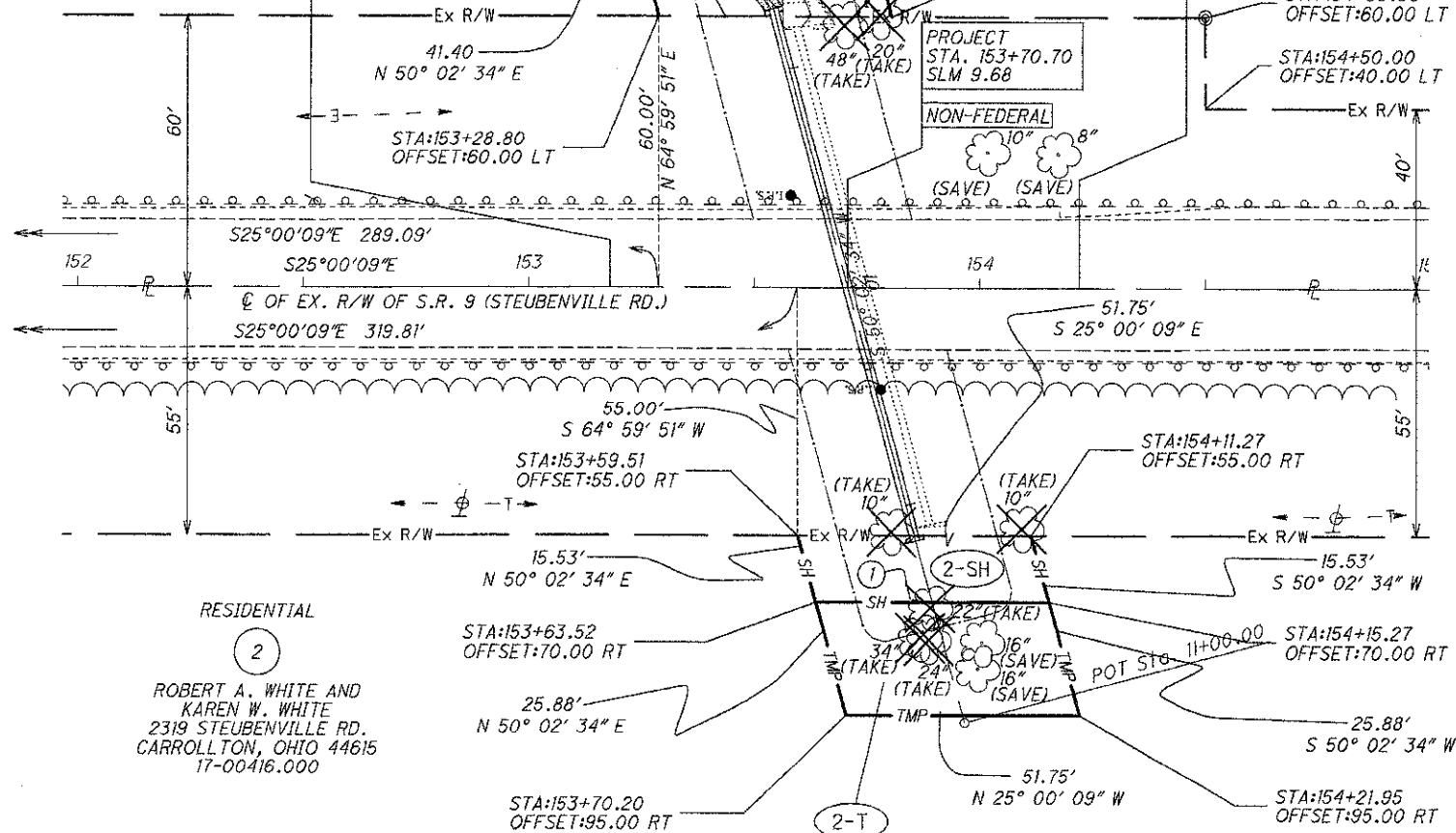
SIGNED: *William J. Sala*  
 DATE: 5-01-2007

SHEET	PROJECT	PARCEL	TOTAL NUMBER OF:				
			OWNERSHIPS	PARCELS	TOTAL TAKES	OWNERSHIPS WITH STRUCTURES INVOLVED	OWNERSHIPS W/ 'P' ITEMS
2	CAR-9-9.68	1-SH, 2-SH, 2-T	2	3	0	0	0
3	CAR-164-1.11	3-T, 4-SH, 5-T	3	3	0	0	0
4	CAR-332-0.00	6-SH, 6-T, 7-SH	2	3	0	0	0
5	CAR-332-5.07	8-SH	1	1	0	0	0
6	CAR-332-7.98	9-SH, 9-T, 10-SH	2	3	0	0	0
7	CAR-332-8.70	11-SH, 12-T	2	2	0	0	0
8	CAR-542-12.36	13-T, 14-SH	2	2	0	0	0
9	HAS-799-5.08	-	1	0	0	0	0
<b>TOTALS:</b>			<b>15</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>

DATE: 30-APR-07 10:40  
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 SCALE: 1" = 1"

STATE OF OHIO  
 COUNTY OF CARROLL  
 TOWNSHIP OF LEE  
 SOUTHEAST QUARTER  
 R.5W, TWP. 13N, SEC. 17  
 RESIDENTIAL

ERIC S. KNOTTS AND  
 LISA A. KNOTTS  
 2230 STEUBENVILLE RD.  
 CARROLLTON, OHIO 44615  
 PPN 17-00024.003



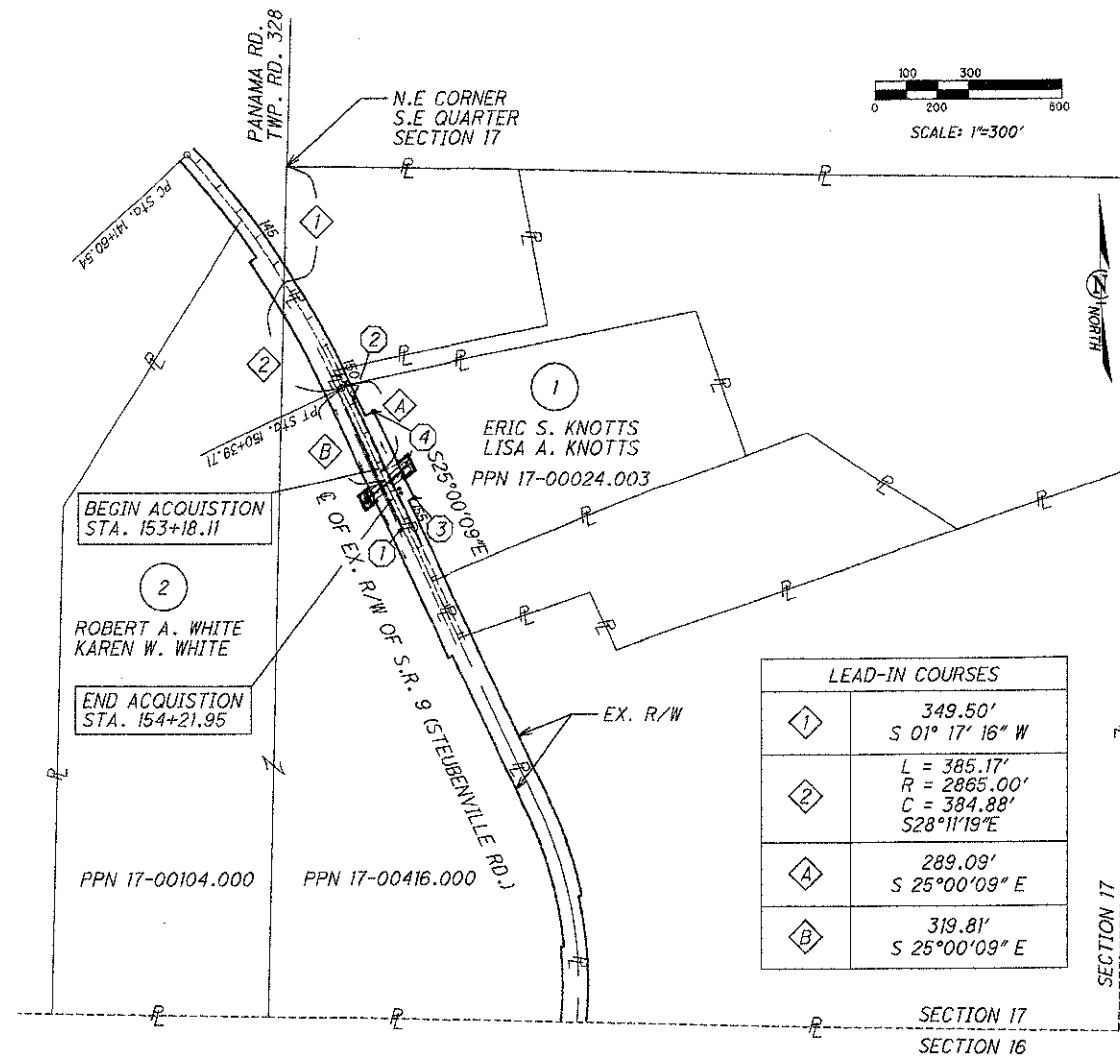
RESIDENTIAL  
 ROBERT A. WHITE AND  
 KAREN W. WHITE  
 2319 STEUBENVILLE RD.  
 CARROLLTON, OHIO 44615  
 17-00416.000

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.  
 BEARINGS BASED UPON GPS OBSERVATIONS.  
 USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

NOTE: THE EXISTING R/W WIDTH AND LOCATION  
 WERE DETERMINED USING CARROLL COUNTY  
 PLAN CANTON-STEUBENVILLE RD. S.H (I.C.H.)75  
 SEC. E-2,F,G., DATED 1931.

**PROPERTY MAP**



LEAD-IN COURSES	
1	349.50' S 01° 17' 16" W
2	L = 385.17' R = 2865.00' C = 384.88' S 28° 11' 19" E
A	289.09' S 25° 00' 09" E
B	319.81' S 25° 00' 09" E

MONUMENT	MONUMENT ID	STA	OFFSET	COORDINATES	ELEV.
1	C394	155+24.56	23.65' RT.	N 319729.5900 E 2378300.5290	1230.14
2	C395	150+84.72	22.09' LT.	N 320147.5440 E 2378156.0880	1225.61
3	C500	154+50.00	60.00' LT.	N 319832.5207 E 2378344.8285	1217.11
4	C501	151+50.50	60.00' LT.	N 320103.9551 E 2378218.2418	1213.69

**TOTAL NUMBER OF :** SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

2 OWNERSHIPS 0 TOTAL TAKES  
 3 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED  
 NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S RECORD PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
1-SH	ERIC S. KNOTTS AND LISA A. KNOTTS	312	799	17-00024.003	14.300	0.732	0.048	0.000	0.048		13.520		STATE		43	1625
2-SH	ROBERT A. WHITE AND KAREN W. WHITE	284	592	17-00104.000	33.150	0.273	0.000	0.000	0.000						41	646
		247	272	17-00416.000	27.880	2.758	0.018	0.000	0.018							
	TOTAL				61.030	3.031	0.018	0.000	0.018			57.981				
2-T				17-00416.000			0.030	0.000	0.030					TO GRADE AT THE BORE PIT		
													STATE			

DATE: 26-APR-07 16:30  
 FILE: J:\J06565 CAR-9-9.68\PLAN\_SHEETS\24\_RIGHT\_OF\_WAY\05\_PLAN\_SHEETS\82224RD005.DGN  
 SCALE: 1" = 200'

**RIGHT OF WAY PLAN**

**CAR-9-9.68**

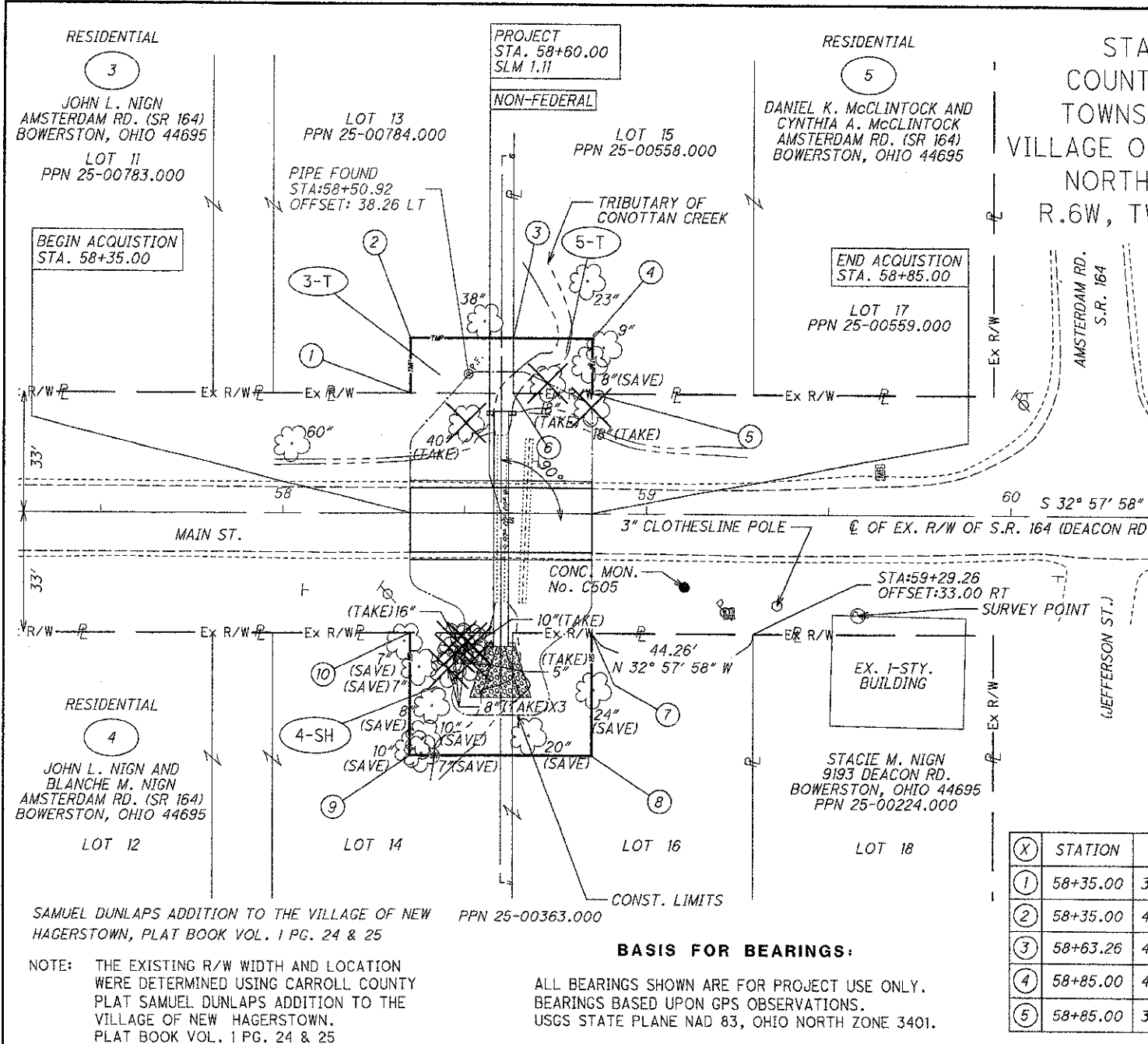
**D11-CR-FY2008**

2 / 9

21  
28

PID NO. **82224**  
 STATE JOB NO. **516189**  
 R/W DESIGNER: JPS  
 R/W REVIEWER: WJS

DATE: 03-JUL-07 08:42  
FILE: J:\JOB\10668 CAR-164-1.11\PLAN SHEETS\24-RIGHT-OF-WAY\05-PLAN SHEETS\82224R0007.DGN  
SCALE: 1"=100'



STATE OF OHIO  
COUNTY OF CARROLL  
TOWNSHIP OF ORANGE  
VILLAGE OF NEW HAGERSTOWN  
NORTHWEST QUARTER  
R.6W, TWP. 13N, SEC. 28

PARCEL 3-T

(X)-(X)	BEARING	DISTANCE
1-2	N57°02'02"E	15.00'
2-3	S32°57'58"E	28.26'
3-6	S57°02'02"W	15.00'
6-1	N32°57'58"W	28.26'

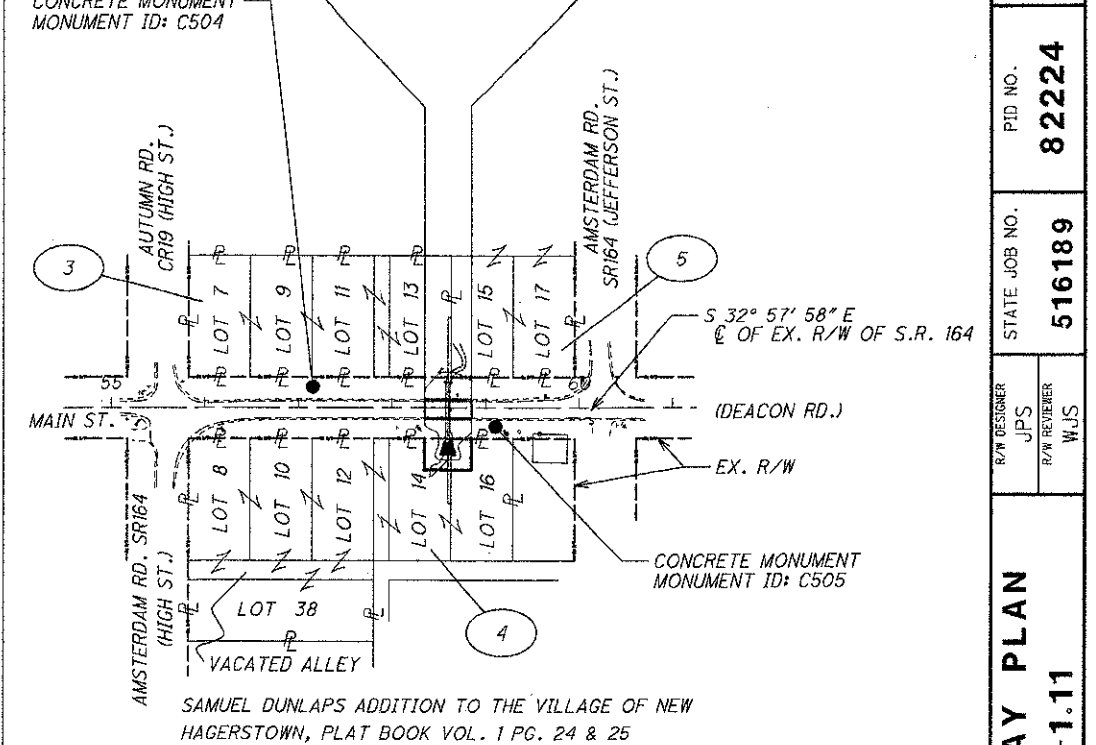
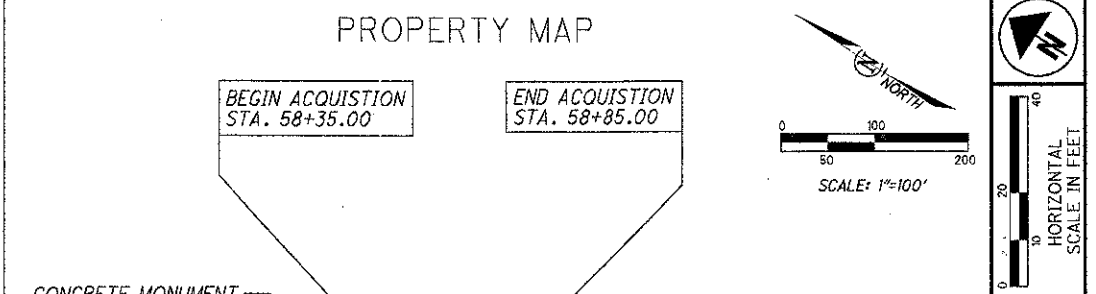
PARCEL 4-SH

(X)-(X)	BEARING	DISTANCE
10-7	S32°57'58"E	50.00'
7-8	S57°02'02"W	34.00'
8-9	N32°57'58"W	50.00'
9-10	N57°02'02"E	34.00'

PARCEL 5-T

(X)-(X)	BEARING	DISTANCE
6-3	N57°02'02"E	15.00'
3-4	S32°57'58"E	21.74'
4-5	S57°02'02"W	15.00'
5-6	N32°57'58"W	21.74'

(X)	STATION	OFFSET	(X)	STATION	OFFSET
1	58+35.00	33.00' LT	6	58+63.26	33.00' LT
2	58+35.00	48.00' LT	7	58+85.00	33.00' RT
3	58+63.26	48.00' LT	8	58+85.00	67.00' RT
4	58+85.00	48.00' LT	9	58+35.00	67.00' RT
5	58+85.00	33.00' LT	10	58+35.00	33.00' RT



**OWNERSHIP**

3 JOHN L. NIGN

4 JOHN L. NIGN AND BLANCHE M. NIGN

5 DANIEL K. McCLINTOCK & CYNTHIA A. McCLINTOCK

**CONCRETE MONUMENT MONUMENT ID: C504**  
STA: 57+15.58  
OFFSET: 22.40' LT.  
N 285980.7211  
E 2333889.6049  
ELEV. 956.26

**CONCRETE MONUMENT MONUMENT ID: C505**  
STA: 59+10.40  
OFFSET: 20.27' RT.  
N 285794.0429  
E 2333959.8181  
ELEV. 953.89

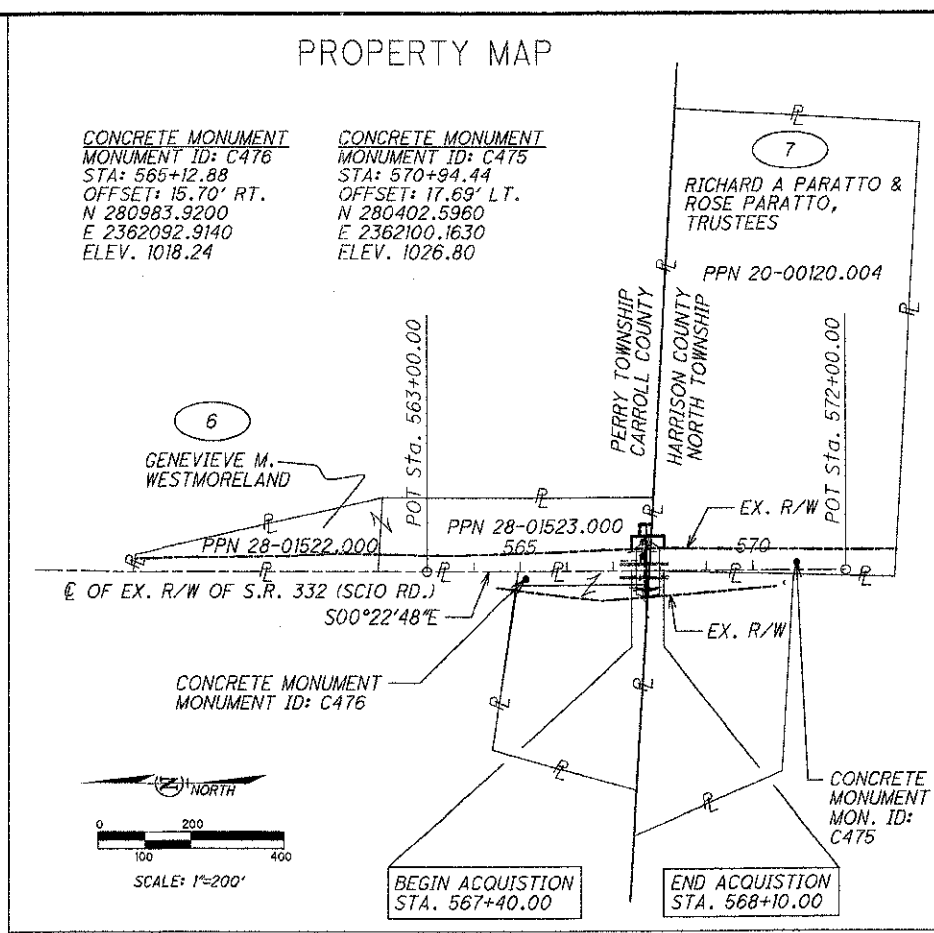
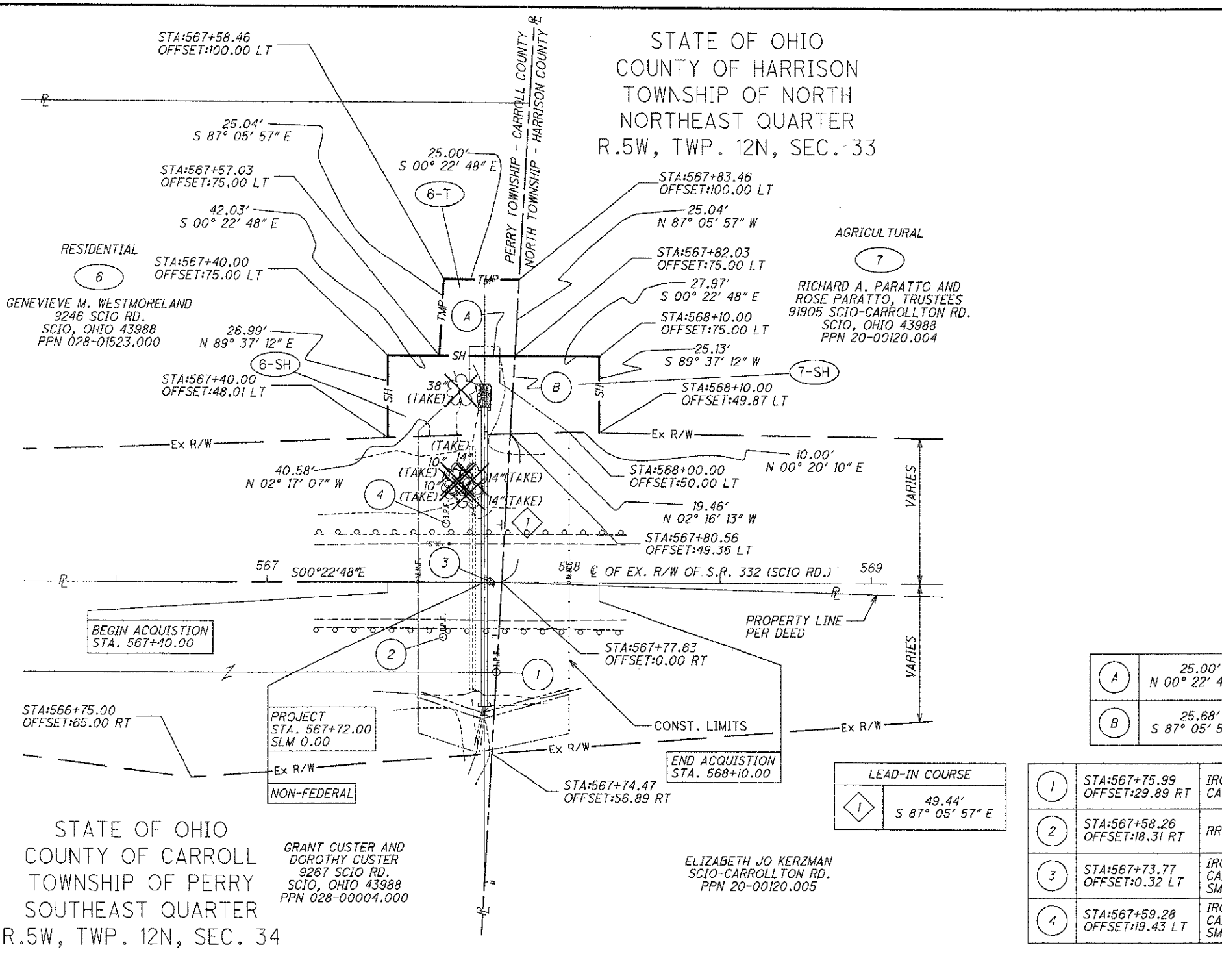
**TOTAL NUMBER OF :** SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION  
 3 OWNERSHIPS 0 TOTAL TAKES (c) = CALCULATED AREA  
 3 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED  
 NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.  
 NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S RECORD PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
3-T	JOHN L. NIGN	203	218	25-00781.000	0.200 (c)	0.000	0.000	0.000	0.000				STATE	LOT 7 *		
		202	263	25-00782.000	0.200 (c)	0.000	0.000	0.000	0.000					LOT 9 *		
		202	233	25-00783.000	0.200 (c)	0.000	0.000	0.000	0.000					LOT 11 *		
		202	198	25-00784.000	0.200 (c)	0.000	0.010	0.000	0.010					LOT 13 *		
	TOTAL				0.800	0.000	0.010	0.000	0.010							
4-SH	JOHN L. NIGN AND BLANCHE M. NIGN	299	755	25-02022.000	0.200 (c)	0.000	0.000	0.000	0.000		0.200			LOT 8 *	41	1841
				25-00363.000	1.100	0.000	0.039	0.000	0.039		1.061			LOTS 10, 12, 14, 16, 38 *		
	TOTAL				1.300	0.000	0.039	0.000	0.039		1.261					
5-T	DANIEL K. McCLINTOCK AND CYNTHIA A. McCLINTOCK	303	289	25-00558.000	0.200 (c)	0.000	0.007	0.000	0.007					LOT 15 *		
				25-00559.000	0.200 (c)	0.000	0.000	0.000	0.000					LOT 17 *		
	TOTAL				0.400	0.000	0.007	0.000	0.007				STATE	DUE TO EXTENSIVE CONTIGUOUS OWNERSHIP, ONLY AFFECTED PARCELS HAVE BEEN SHOWN. * SAMUEL DUNLAPS ADDITION TO THE VILLAGE OF NEW HAGERSTOWN, PLAT BOOK VOL. 1 PG. 24 & 25		

PID NO. 82224  
 STATE JOB NO. 516189  
 R/W DESIGNER JPS  
 R/W REVIEWER WJS  
**RIGHT OF WAY PLAN**  
**CAR-164-1.11**  
**D11-CR-FY2008**  
 3 / 9  
 22  
 28

DATE: 01-MAY-07 15:29  
 FILE: J:\DB\10668 CAR-332-0.00\PLAN SHEETS\24.RIGHT\_OF\_WAY\05.PLAN SHEETS\82224R001.DGN  
 SCALE: 1" = 100'



A	25.00' N 00° 22' 48" W
B	25.68' S 87° 05' 57" E

LEAD-IN COURSE	
I	49.44' S 87° 05' 57" E

1	STA:567+75.99 OFFSET:29.89 RT	IRON PIN FOUND CAPPED "6557"
2	STA:567+58.26 OFFSET:18.31 RT	RR SPIKE FOUND
3	STA:567+73.77 OFFSET:0.32 LT	IRON PIN FOUND CAPPED "RON SMITH 6324"
4	STA:567+59.28 OFFSET:19.43 LT	IRON PIN FOUND CAPPED "RON SMITH 6324"

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING CARROLL COUNTY PLAN CARROLLTON-KENSINGTON SOUTH ROAD S.H. 375 SEC. 1 PT. AND HARRISON COUNTY PLAN S.H. 375 SEC. J PT. DATED 1939.

**BASIS FOR BEARINGS:**  
 ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS BASED UPON GPS OBSERVATIONS. USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

**TOTAL NUMBER OF :**  
 2 OWNERSHIPS      0 TOTAL TAKES      SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION      NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.      NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.  
 3 PARCELS      0 OWNERSHIPS W/ STRUCTURES INVOLVED      NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE      ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S RECORD		TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
			BOOK	PAGE	PARCEL	AREA						LEFT	RIGHT			BOOK	PAGE
6-SH	GENEVIEVE M. WESTMORELAND		OR 25	2208	28-01522.000	2.160	0.418	0.000	0.000	0.000		1.742		STATE		41	642
					28-01523.000	2.350	0.544	0.025	0.000	0.025		1.781					
					<b>TOTAL</b>	<b>4.510</b>	<b>0.962</b>	<b>0.025</b>	<b>0.000</b>	<b>0.025</b>		<b>3.523</b>					
6-T					28-01523.000			0.014	0.000	0.014					TO GRADE AT THE BORE PIT		
7-SH	RICHARD A. PARATTO AND ROSE PARATTO, TRUSTEES		OR 149	435	20-00120.004	12.006	0.663	0.017	0.000	0.017		11.326		STATE		172	2817

RIGHT OF WAY PLAN  
 CAR-332-0.00

D11-CR-FY2008

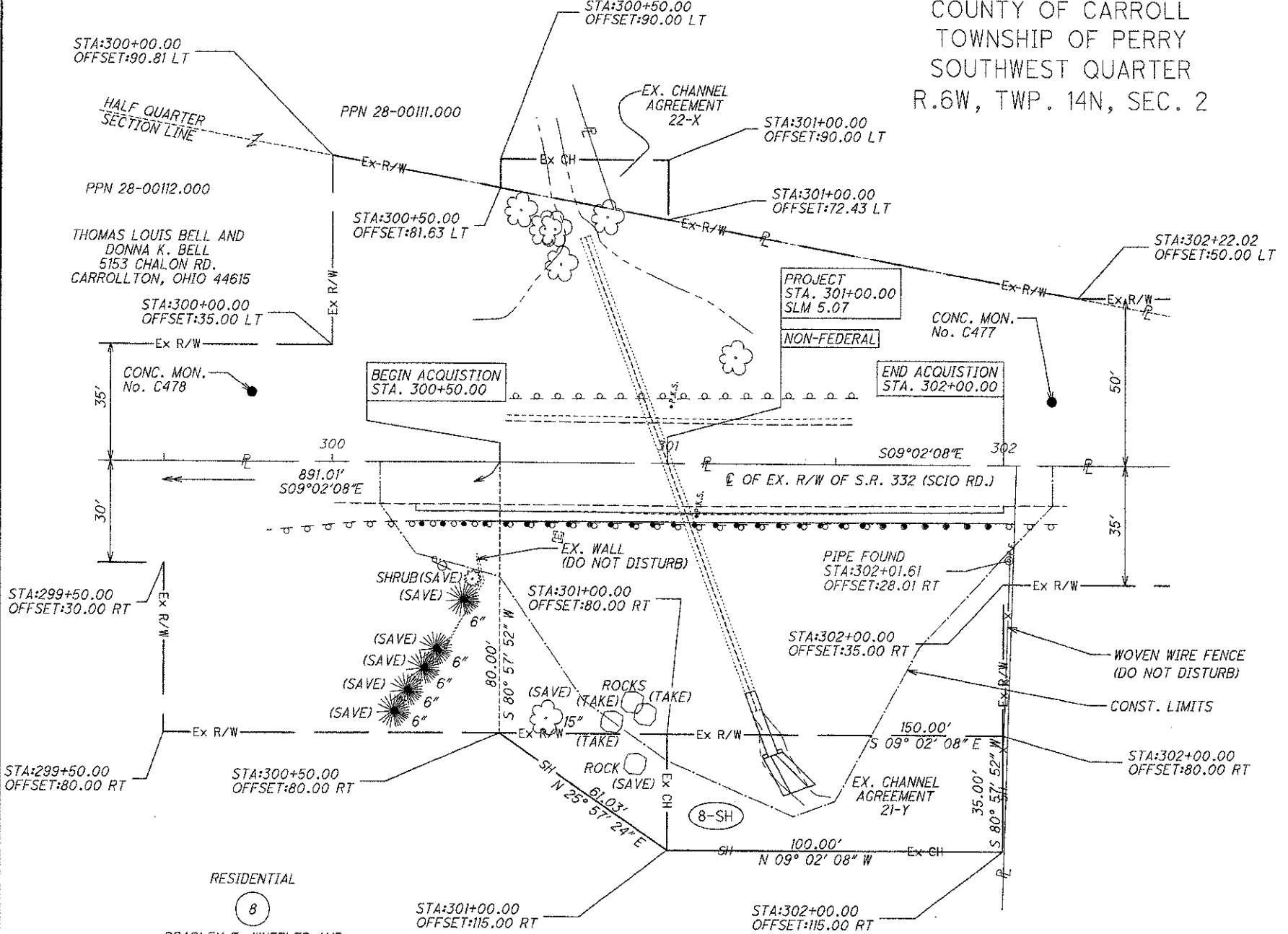
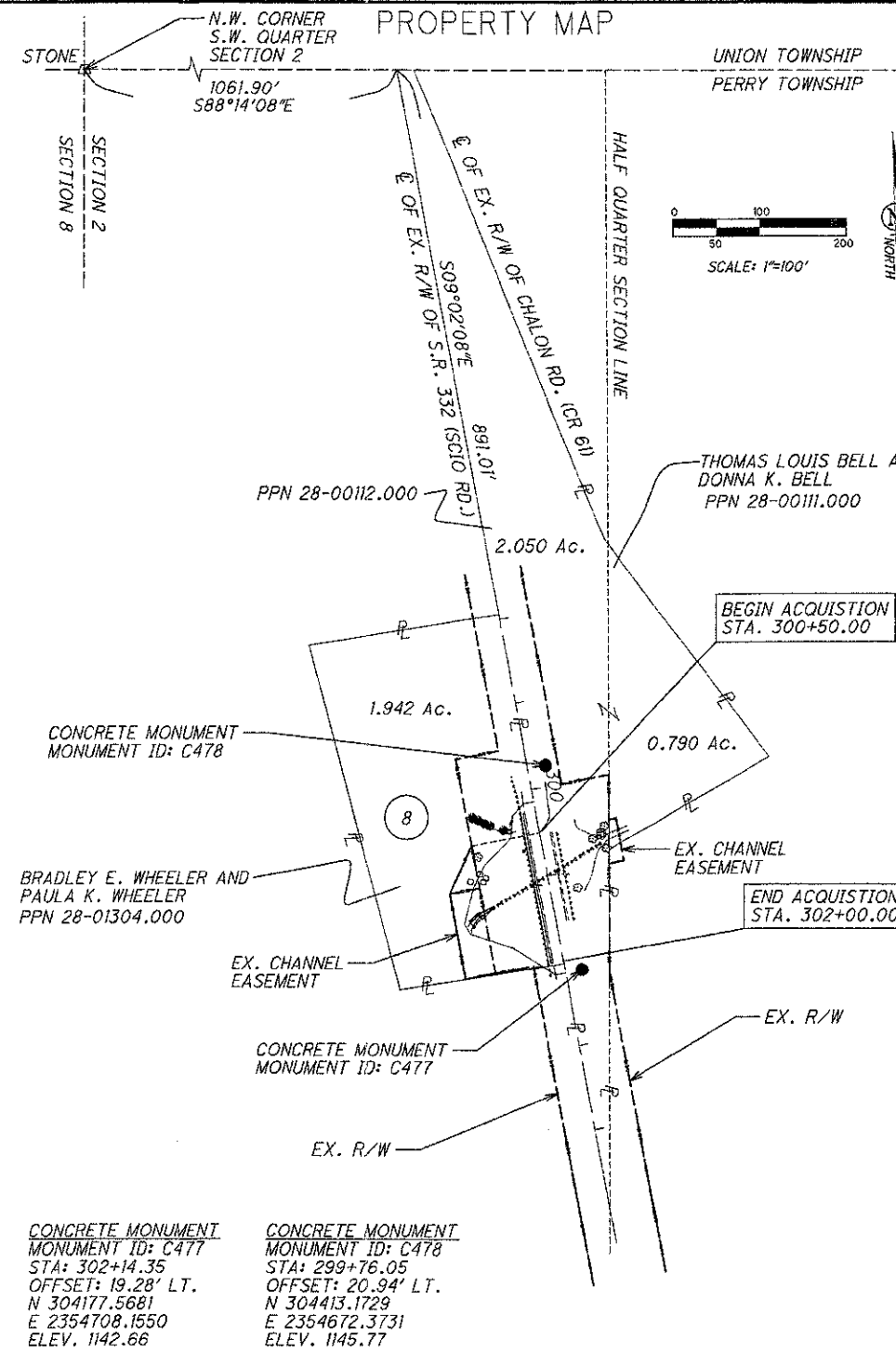
PID NO. **82224**  
 STATE JOB NO. **516189**  
 R/W DESIGNER: JPS  
 R/W REVIEWER: WJS

DATE COMPLETED 05/01/07

4 / 9

23 / 28

STATE OF OHIO  
 COUNTY OF CARROLL  
 TOWNSHIP OF PERRY  
 SOUTHWEST QUARTER  
 R.6W, TWP. 14N, SEC. 2



**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.  
 BEARINGS BASED UPON GPS OBSERVATIONS.  
 USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING CARROLL COUNTY PLAN S.H. 375 SEC. I, DATED 1933.

**TOTAL NUMBER OF :**  
 1 OWNERSHIPS  
 1 PARCELS  
 0 TOTAL TAXES  
 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

**ALL AREAS IN ACRES**

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
8-SH	BRADLEY E. WHEELER AND PAULA K. WHEELER	214	769	28-01304.000	1.942	0.569	0.100	0.000	0.100			1.273	STATE	AREA OF EX. CHANNEL AGREEMENT 21-Y = 3,500 S.F. (0.080 Ac.)	43	348

REV. BY	DATE	DESCRIPTION
	05/01/07	

DATE: 30-APR-07 08:02  
 FILE: J:\JOB\1066C CAR-332-5.07\PLAN-SHEETS\24-RIGHT\_OF\_WAY\05\_PLAN-SHEETS\82224RD002.DGN  
 SCALE: 1" = 20'

RID NO. **82224**  
 STATE JOB NO. **516189**  
 R/W DESIGNER **JPS**  
 R/W REVIEWER **WJS**

**RIGHT OF WAY PLAN**

**CAR-332-5.07**

**D11-CR-FY2008**

5 / 9

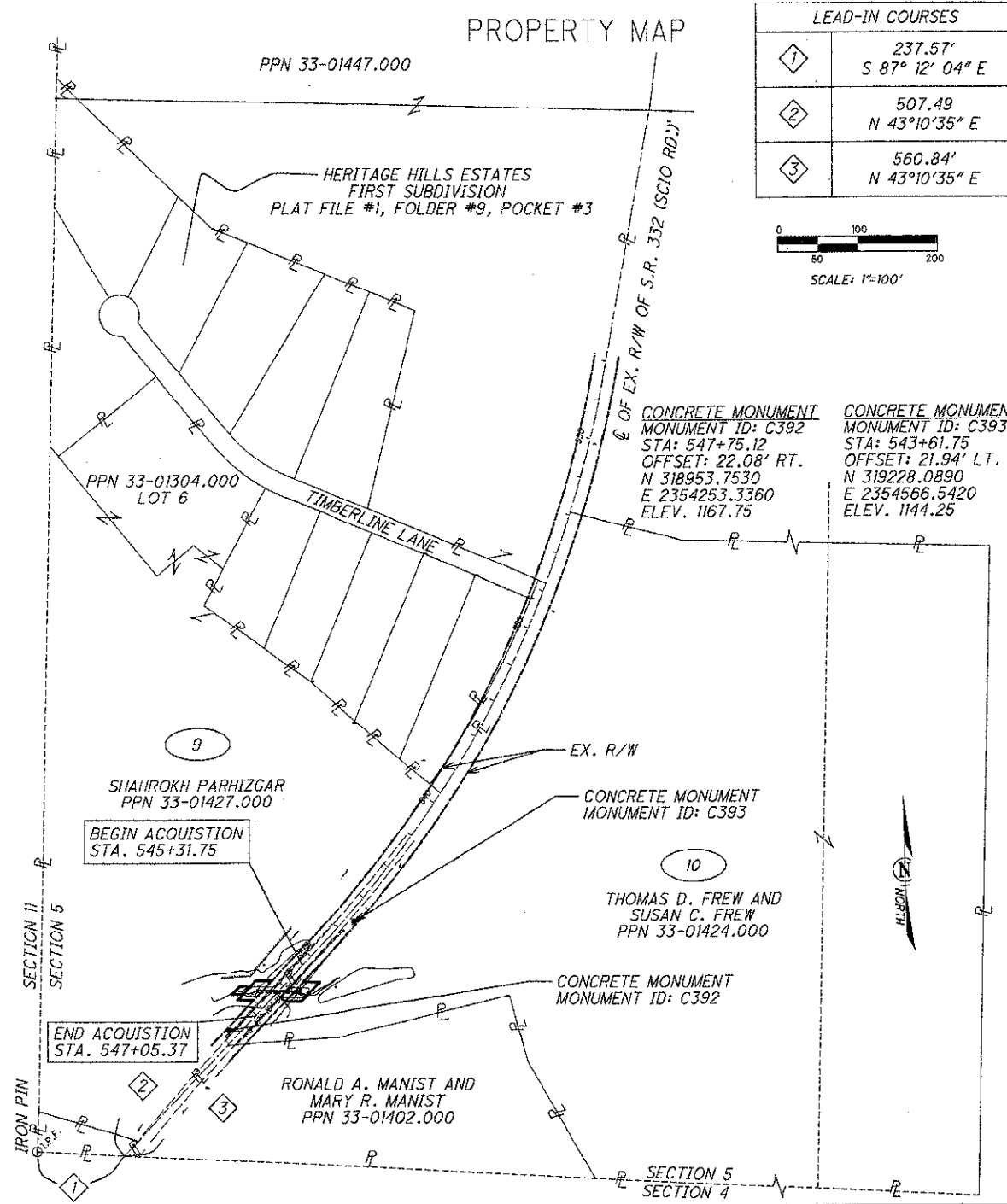
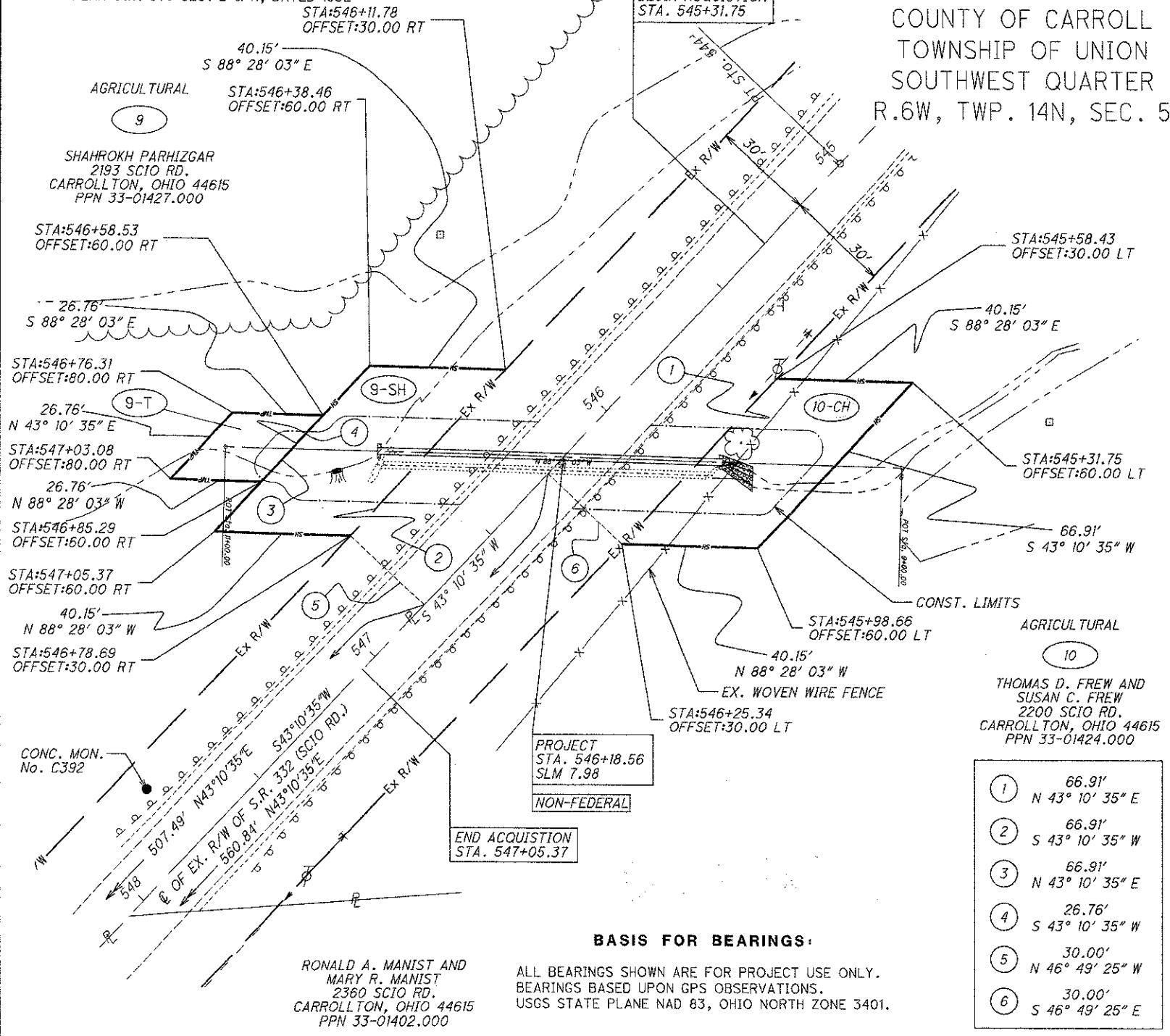
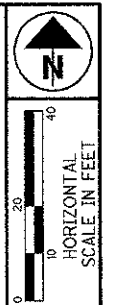
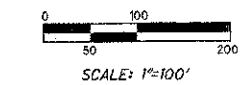
24 / 28

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING CARROLL COUNTY PLAN S.H. 375 SEC. B & H, DATED 1932

STATE OF OHIO  
COUNTY OF CARROLL  
TOWNSHIP OF UNION  
SOUTHWEST QUARTER  
R.6W, TWP. 14N, SEC. 5

PROPERTY MAP

LEAD-IN COURSES	
1	237.57' S 87° 12' 04" E
2	507.49 N 43° 10' 35" E
3	560.84' N 43° 10' 35" E



- 1 66.91'  
N 43° 10' 35" E
- 2 66.91'  
S 43° 10' 35" W
- 3 66.91'  
N 43° 10' 35" E
- 4 26.76'  
S 43° 10' 35" W
- 5 30.00'  
N 46° 49' 25" W
- 6 30.00'  
S 46° 49' 25" E

**BASIS FOR BEARINGS:**  
ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.  
BEARINGS BASED UPON GPS OBSERVATIONS.  
USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

**TOTAL NUMBER OF :** SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION. NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

2 OWNERSHIPS 0 TOTAL TAXES (c) = CALCULATED AREA  
3 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

REV. BY	DATE	DESCRIPTION
D11	9/19/07	Changed 10-SH to 10-CH
D11	7/10/07	REMOVED ENCROACHMENT NOTE PARCEL 10
DATE COMPLETED 05/01/07		

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S RECORD PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC. TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
9-SH	SHAHROKH PARHIZGAR	244	360	33-01304.000	3.119 (c)	0.000	0.000	0.000	0.000			3.119	STATE		41	634
		249	373	33-01427.000	36.910	0.806	0.046	0.000	0.046			36.058				
	TOTAL				40.029	0.806	0.046	0.000	0.046			39.177				
9-T				33-01427.000			0.012	0.000	0.012					TO GRADE AT BORE PIT		
10-CH	THOMAS D. FREW AND SUSAN C. FREW	202	260	33-01424.000	73.390	1.105	0.046	0.000	0.046			72.285	STATE		43	352

DATE: 01-MAY-07 15:31 FILE: J:\JOB\10660 CAR-332-7-98\PLAN\_SHEETS\24-RIGHT\_OF\_WAY\05-PLAN\_SHEETS\82224RD003.DGN SCALE: 1" = 200'

PTD NO. 82224

STATE JOB NO. 516189

R/W DESIGNER JPS R/W REVIEWER WJS  
**RIGHT OF WAY PLAN**  
**CAR-332-7.98**

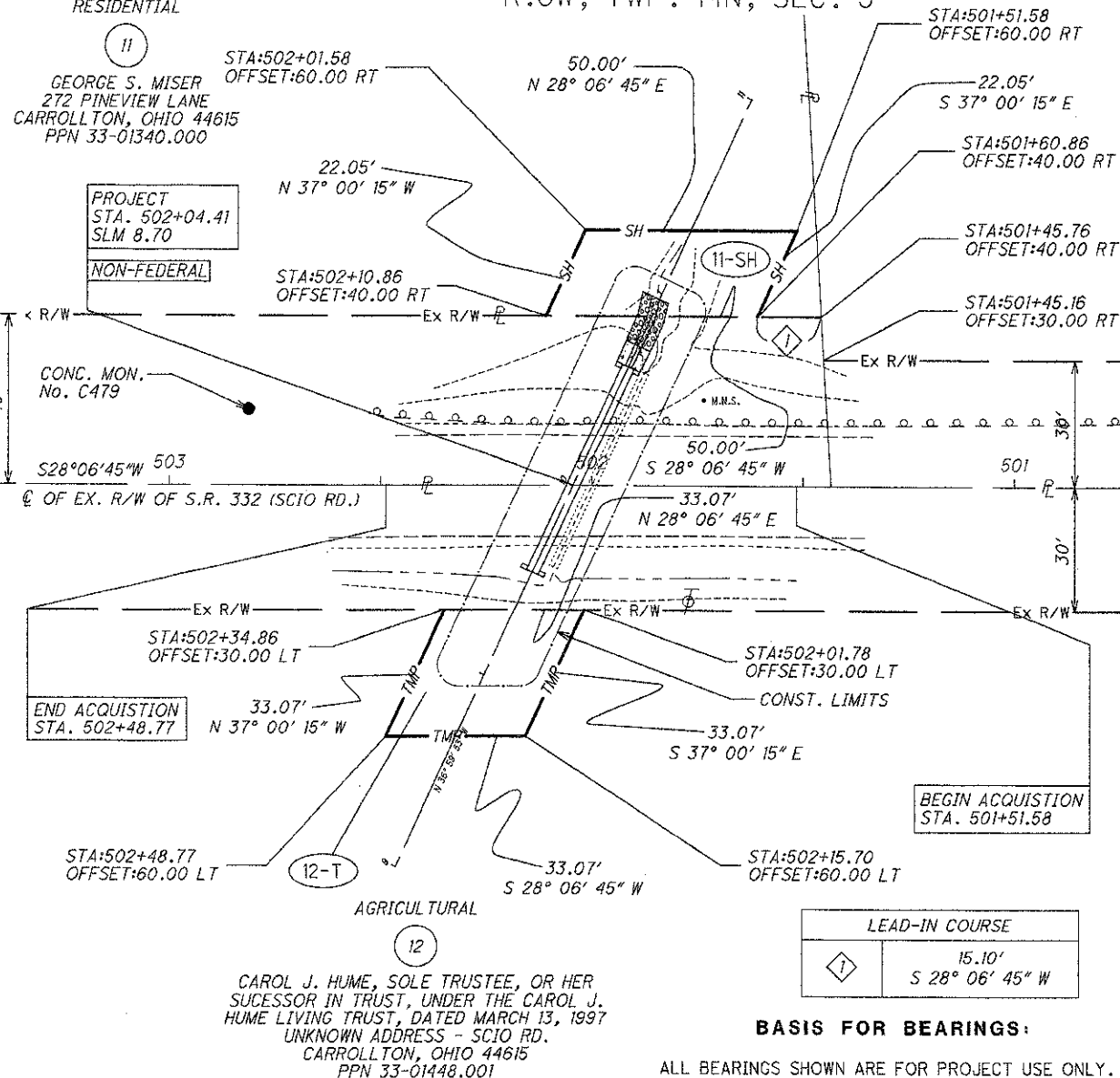
**D11-CR-FY 2008**

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING CARROLL COUNTY PLAN S.H. 375 SEC. B AND HERITAGE HILLS ESTATES SECOND SUBDIVISION, PLAT FILE #1, FOLDER #3, POCKET #4

STATE OF OHIO  
COUNTY OF CARROLL  
TOWNSHIP OF UNION  
NORTHWEST QUARTER  
R.6W, TWP. 14N, SEC. 5

SHAHROKH PARHIZGAR  
2071 SCIO RD.  
CARROLLTON, OHIO 44615  
PPN 33-01447.000

HERITAGE HILLS ESTATES  
SECOND SUBDIVISION  
PLAT FILE #1, FOLDER #3, POCKET #4  
RESIDENTIAL  
LOT 13



PROJECT  
STA. 502+04.41  
SLM 8.70

NON-FEDERAL

CONC. MON.  
No. C479

END ACQUISITION  
STA. 502+48.77

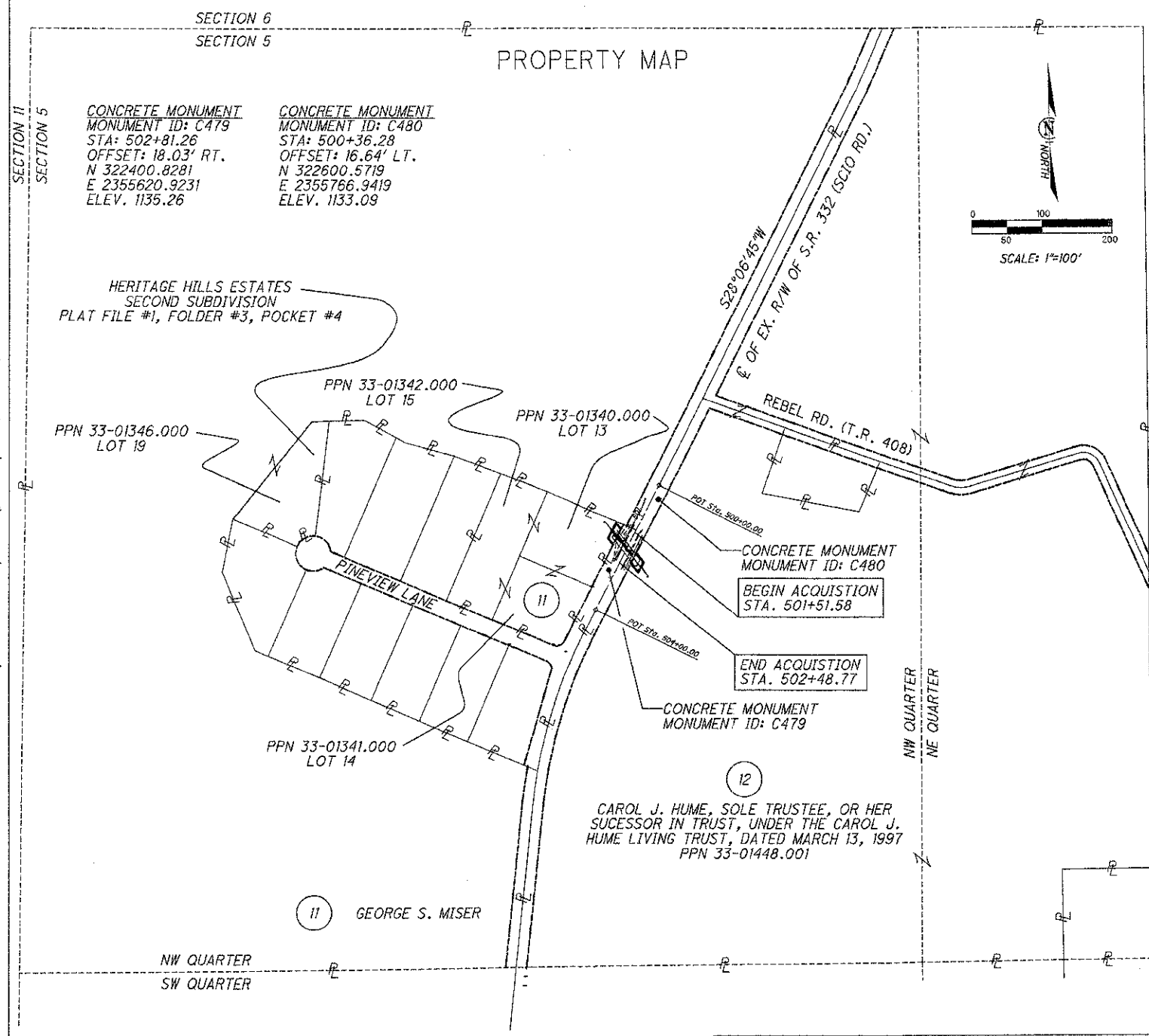
BEGIN ACQUISITION  
STA. 501+51.58

CAROL J. HUME, SOLE TRUSTEE, OR HER SUCCESSOR IN TRUST, UNDER THE CAROL J. HUME LIVING TRUST, DATED MARCH 13, 1997  
UNKNOWN ADDRESS - SCIO RD.  
CARROLLTON, OHIO 44615  
PPN 33-01448.001

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS BASED UPON GPS OBSERVATIONS. USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

LEAD-IN COURSE	
	15.10' S 28° 06' 45" W



SECTION 6  
SECTION 5

PROPERTY MAP

CONCRETE MONUMENT  
MONUMENT ID: C479  
STA: 502+81.26  
OFFSET: 18.03' RT.  
N 322400.8281  
E 2355620.9231  
ELEV. 1135.26

CONCRETE MONUMENT  
MONUMENT ID: C480  
STA: 500+36.28  
OFFSET: 16.64' LT.  
N 322600.5719  
E 2355766.9419  
ELEV. 1133.09

HERITAGE HILLS ESTATES  
SECOND SUBDIVISION  
PLAT FILE #1, FOLDER #3, POCKET #4

CONCRETE MONUMENT  
MONUMENT ID: C480  
BEGIN ACQUISITION  
STA. 501+51.58

END ACQUISITION  
STA. 502+48.77

CONCRETE MONUMENT  
MONUMENT ID: C479

CAROL J. HUME, SOLE TRUSTEE, OR HER SUCCESSOR IN TRUST, UNDER THE CAROL J. HUME LIVING TRUST, DATED MARCH 13, 1997  
PPN 33-01448.001

TOTAL NUMBER OF :

2 OWNERSHIPS  
2 PARCELS

0 TOTAL TAKES  
0 OWNERSHIPS W/ STRUCTURES INVOLVED

SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION

ALL AREAS IN ACRES

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE (c) = CALCULATED AREA

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV. BY DATE DESCRIPTION

DATE COMPLETED 05/01/07

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S RECORD PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
11-SH	GEORGE S. MISER	254	23	33-01340.000	1.061 (c)	0.000	0.023	0.000	0.023			1.038	STATE	LOT 13*	41	650
				33-01341.000	1.004 (c)	0.000	0.000	0.000	0.000			1.004		LOT 14*		
		307	201	33-01342.000	1.305 (c)	0.000	0.000	0.000	0.000			1.305		LOT 15*		
	TOTAL				3.370	0.000	0.023	0.000	0.023			3.347				
12-T	CAROL J. HUME, SOLE TRUSTEE, OR HER SUCCESSOR IN TRUST, UNDER THE CAROL J. HUME LIVING TRUST, DATED MARCH 13, 1997	283	13	33-01448.001	81.700	3.261	0.023	0.000	0.023				STATE	TO GRADE AT THE BORE PIT		
														* HERITAGE HILLS ESTATES SECOND SUBDIVISION PLAT FILE #1, FOLDER #3, POCKET #4		

DATE: 01-MAY-07 15:25  
FILE: J:\JOB\10666 CAR-332-8.70\PLAN SHEETS\24-RIGHT\_OF\_WAY\05-PLAN\_SHEETS\82224R0004.DGN  
SCALE: 1" = 20'

RIGHT OF WAY PLAN  
CAR-332-8.70

STATE JOB NO. 516189

PID NO. 82224

R/W DESIGNER: JPS  
R/W REVIEWER: WJS

D11-CR-FY2008

7 / 9

26  
28

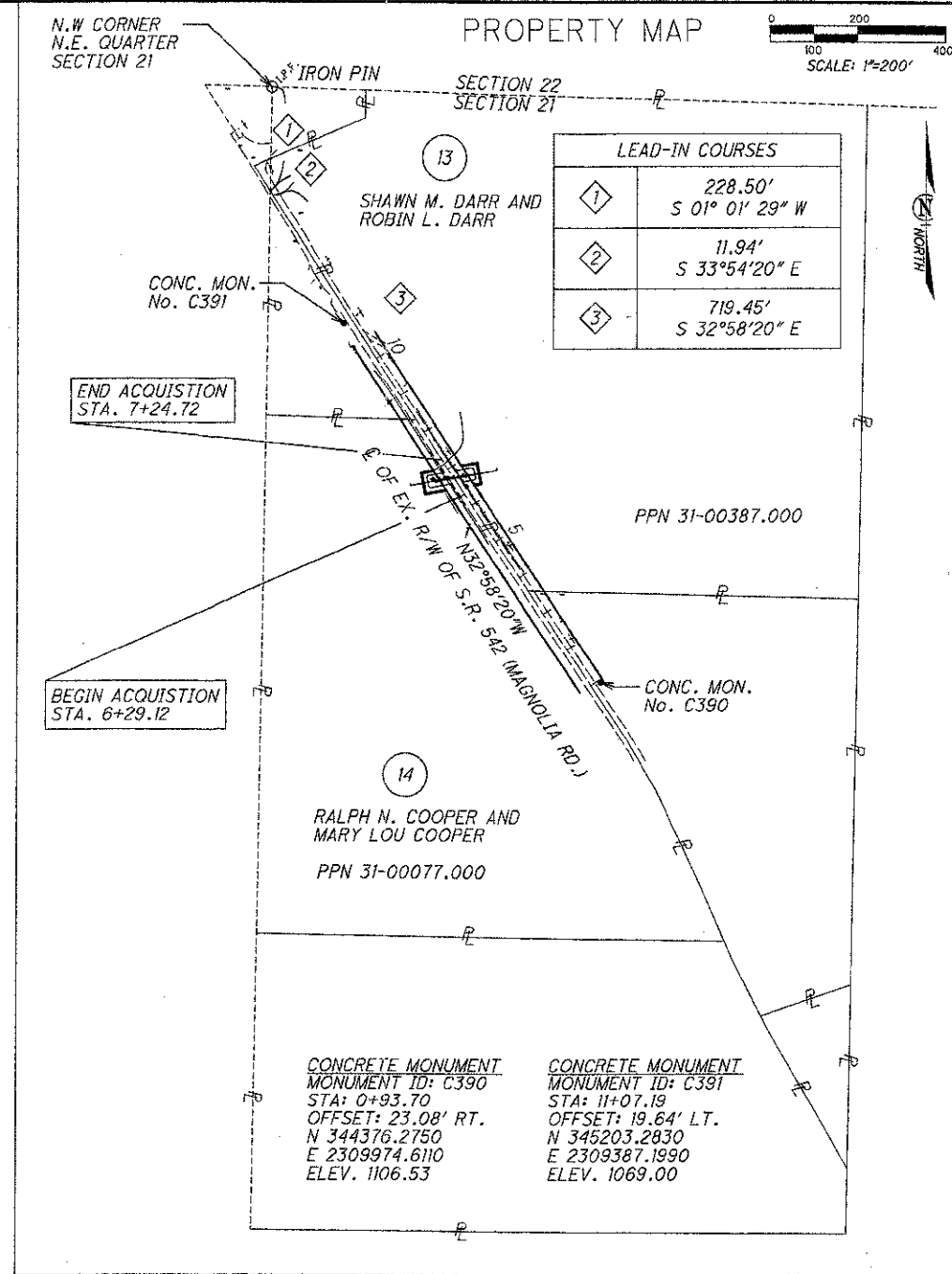
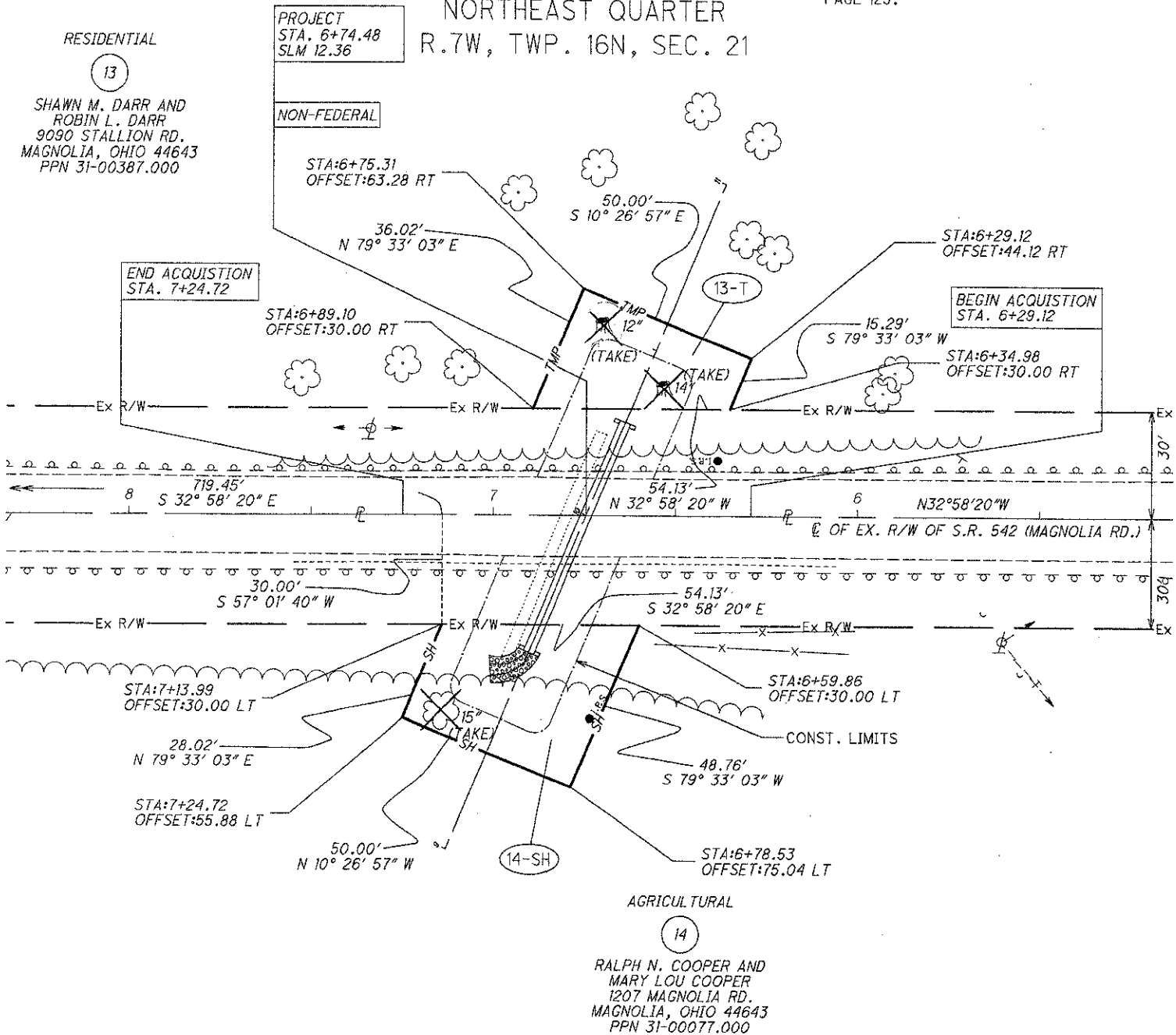
HORIZONTAL SCALE IN FEET

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.  
BEARINGS BASED UPON GPS OBSERVATIONS.  
USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

STATE OF OHIO  
COUNTY OF CARROLL  
TOWNSHIP OF ROSE  
NORTHEAST QUARTER  
R.7W, TWP. 16N, SEC. 21

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING CARROLL COUNTY ROAD RECORD VOL. 1, PAGE 121 CERTIFIED DECEMBER 8, 1836 AND COMMISSIONERS JOURNAL DATED JUNE 29, 1936, VOL. 11, PAGE 129.



LEAD-IN COURSES	
1	228.50' S 01° 01' 29" W
2	11.94' S 33° 54' 20" E
3	719.45' S 32° 58' 20" E

**CONCRETE MONUMENT**  
MONUMENT ID: C390  
STA: 0+93.70  
OFFSET: 23.08' RT.  
N 344376.2750  
E 2309974.6110  
ELEV. 1106.53

**CONCRETE MONUMENT**  
MONUMENT ID: C391  
STA: 11+07.19  
OFFSET: 19.64' LT.  
N 345203.2830  
E 2309387.1990  
ELEV. 1069.00

**TOTAL NUMBER OF :** SEE LEGEND SHEET FOR PROJECT TOTAL TABULATION

2 OWNERSHIPS      0 TOTAL TAKES  
2 PARCELS          0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV. BY	DATE	DESCRIPTION
DII	7/12/07	CHANGED TREE TO STUMP PARCEL 13-T
JPS	06/15/07	ADDED DEED VOL. 170 PG. 251 TO PCL 14-SH

DATE COMPLETED 05/01/07

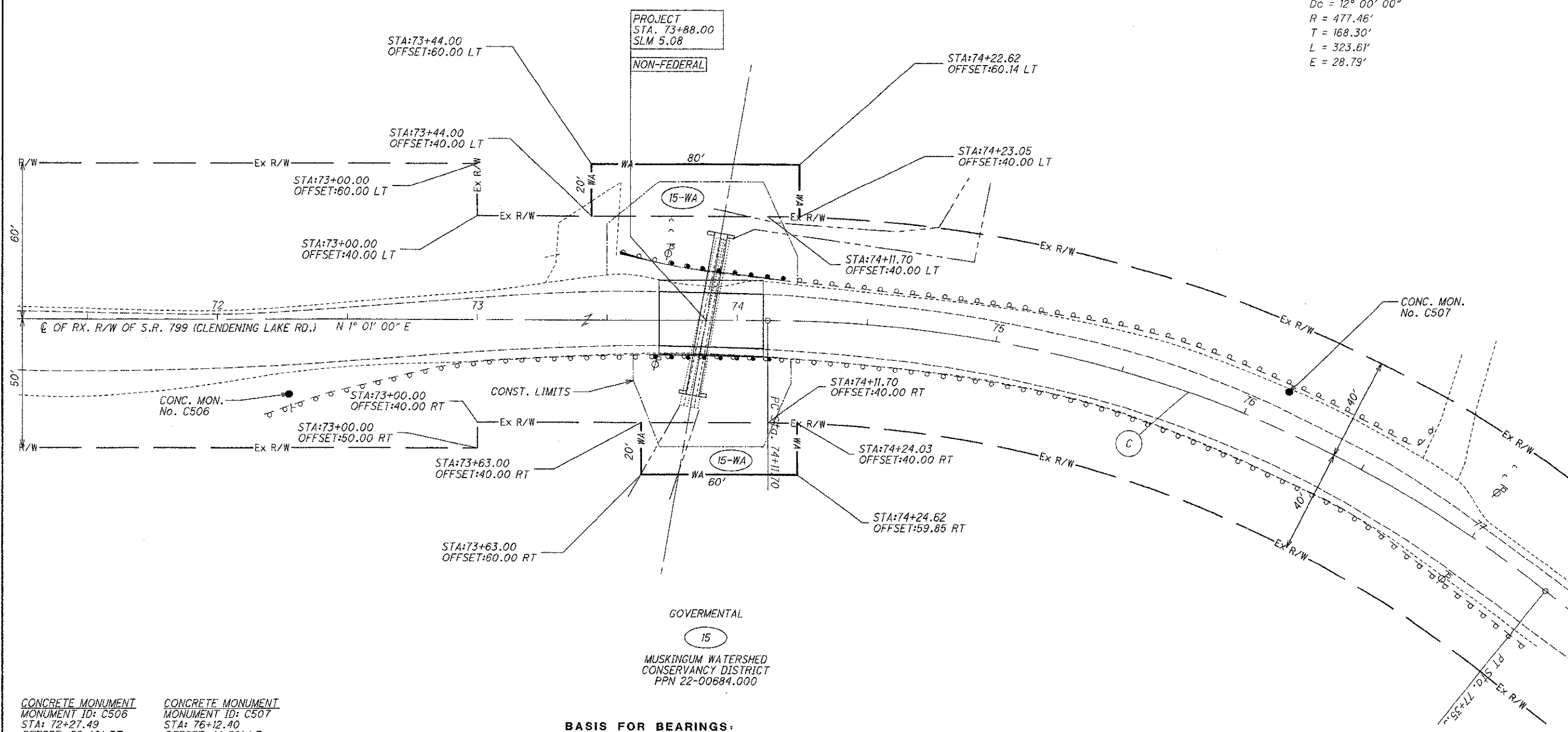
PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S RECORD		TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
			BOOK	PAGE	PARCEL	AREA						LEFT	RIGHT			BOOK	PAGE
13-T	SHAWN M. DARR AND ROBIN L. DARR		OR 33	2153	31-00387.000	28.269	0.795	0.029	0.000	0.029				STATE	TO GRADE AT THE BORE PIT		
14-SH	RALPH N. COOPER AND MARY LOU COOPER		178	752	31-00077.000	19.607	0.963	0.044	0.000	0.044		18.600		STATE		41	1845

DATE: 15-JUN-07 09:04  
FILE: J:\JOB\106666 CAR-542-12.36\PLAN SHEETS\24\_RIGHT\_OF\_WAY\05\_PLAN\_SHEETS\82224RD006.DGN  
SCALE: 1" = 200'

PID NO. **82224**  
 STATE JOB NO. **516189**  
 R/W DESIGNER: JPS  
 R/W REVIEWER: WJS  
**RIGHT OF WAY PLAN**  
**CAR-542-12.36**  
**D11-CR-FY2008**  
 8 / 9  
 27  
 28

STATE OF OHIO  
 COUNTY OF HARRISON  
 TOWNSHIP OF NOTTINGHAM  
 SOUTHWEST QUARTER  
 R.6W, TWP. 11N, SEC. 28

Ⓢ CURVE DATA Ⓢ  
 P.I. STA. 75+80.00  
 Δ = 38° 50' 00" (RT)  
 Dc = 12° 00' 00"  
 R = 477.46'  
 T = 168.30'  
 L = 323.61'  
 E = 28.79'



CONCRETE MONUMENT  
 MONUMENT ID: C506  
 STA: 72+27.49  
 OFFSET: 29.40' RT.  
 N 218958.1090  
 E 2332652.2770  
 ELEV. 903.89

CONCRETE MONUMENT  
 MONUMENT ID: C507  
 STA: 76+12.40  
 OFFSET: 14.58' LT.  
 N 219343.0630  
 E 2332557.9630  
 ELEV. 902.29

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.  
 BEARINGS BASED UPON GPS OBSERVATIONS.  
 USGS STATE PLANE NAD 83, OHIO NORTH ZONE 3401.

NOTE: THE EXISTING R/W WIDTH AND LOCATION  
 WERE DETERMINED USING HARRISON COUNTY  
 PLAN HAS-799-3.20, FED. RD. DIVISION 2,  
 DATED 1948.

**TOTAL NUMBER OF :**  
 1 OWNERSHIPS      0 TOTAL TAKES      \*\* PRO AREA TOO EXCESSIVE TO DETERMINE  
 0 PARCELS      0 OWNERSHIPS W/ STRUCTURES INVOLVED      NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

SEE TITLE SHEET FOR PROJECT TOTAL TABULATION

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

PARCEL NO.	OWNER	OWNERS RECORD		AUDITOR'S RECORD PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC- TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
		BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
15-WA	MUSKINGUM WATERSHED CONSERVANCY DISTRICT			22-00684.000	1280.300	**	0.065						STATE	DUE TO THE EXTENSIVE CONTIGUOUS OWNERSHIP, ONLY AFFECTED PARCELS HAVE BEEN SHOWN WA FOR MINOR GRADING & WORK AREA		

REV. BY	DATE	DESCRIPTION
	05/01/07	

N

HORIZONTAL SCALE IN FEET

PID NO. **82224**

STATE JOB NO. **516189**

R/W DESIGNER: JPS  
R/W REVIEWER: WJS

RIGHT OF WAY PLAN  
HAS-799-5.08

D11-CR-FY2008

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DATE: 30 APR 07 08:13  
 FILE: J:\JOB\10661 HAS-799-5.08\PLAN\_SHEETS\24.RIGHT\_OF\_WAY\05.PLAN\_SHEETS\82224R0008.DGN  
 SCALE: 1"=40'