

THE DEVELOPMENT CORPORATION OF KNOX COUNTY, TENNESSEE

GENERAL NOTES

GRADING

ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF THE PROPERTY IN A REGULATORY FLOODWAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING

SEEDING (WITH MULCH) SHALL BE USED ON ALL DISTURBED AREAS AND SLOPES.

DRAINAGE

THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THE COST SHALL BE PAID UNDER ITEM 203-01.

UTILITIES

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED.

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111.

MISCELLANEOUS

NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS NEAR THE PROPOSED CONSTRUCTION AREA.

SPECIAL NOTES

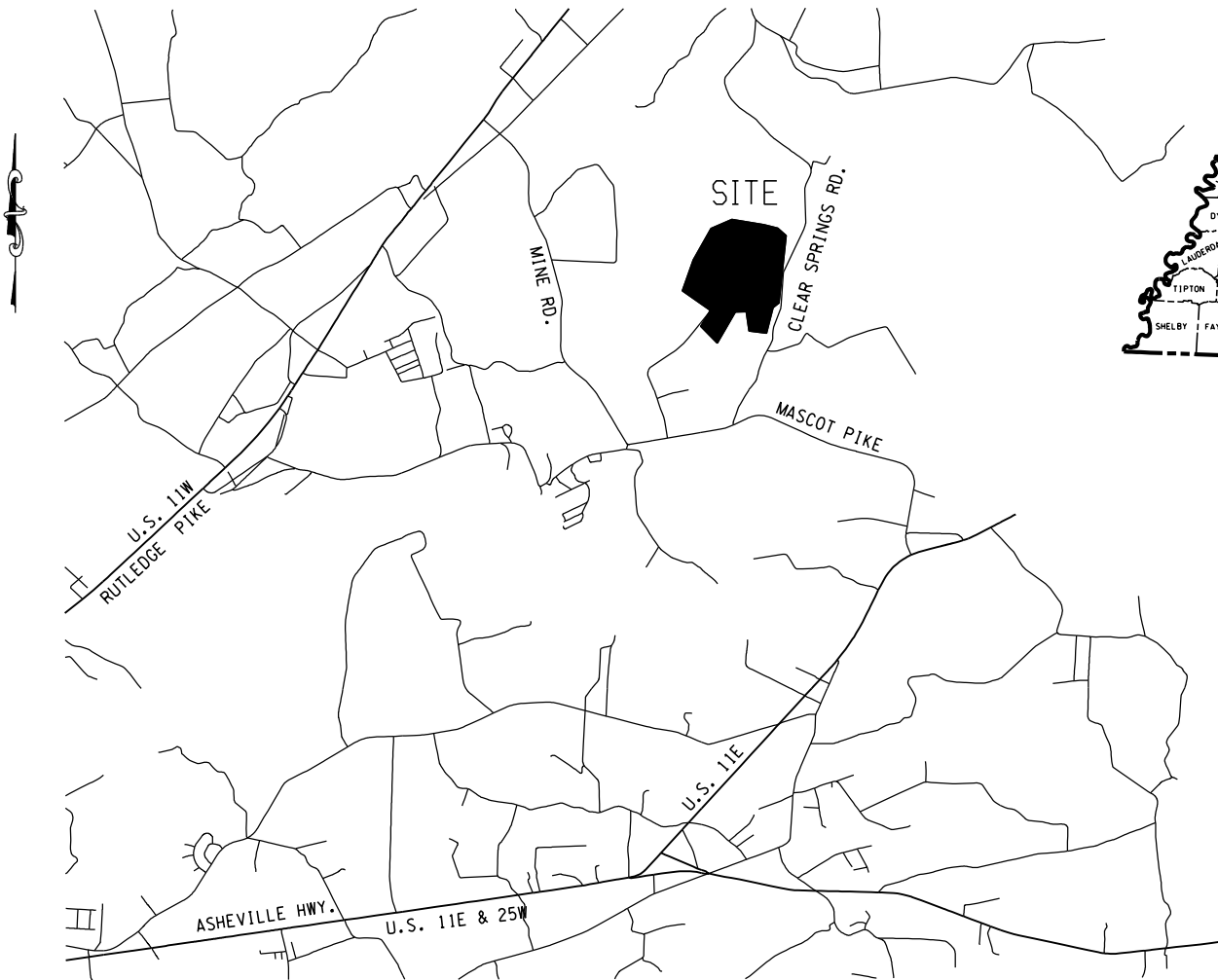
1. GRADING, EROSION CONTROL, AND ALL OTHER ITEMS ARE TO BE CONSTRUCTED ACCORDING TO TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS PROVIDED IN THE PLANS AND IN THE PROPOSAL CONTRACT.
2. THE CONTRACTOR SHALL COMPLY WITH THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL AND HEALTH ACT OF 1970 (OPL 91-596) AND UNDER SECTION 107 OF THE CONTRACT WORK HOUSE AND SAFETY STANDARDS ACT (PL92-54). THE CONTRACTOR SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT FOR CONSTRUCTION INDUSTRY (29 CFR PART 1926) UNDER SECTION **S 650-652.

DESIGNED BY: CDM SMITH
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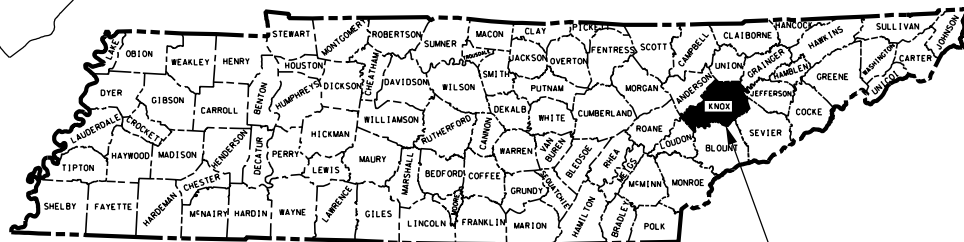
DESIGNED FOR: THE DEVELOPMENT CORPORATION OF KNOX COUNTY

HOLSTON BEND DRIVE EXTENSION CONSTRUCTION

ROADWAY, MINOR GRADING, MINOR DRAINAGE AND PAVING



N. T. S.
PROJECT LOCATION



PROJECT LOCATION

9-SA-15-C
Revised: 8/26/2015



HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE

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Smith

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	2

DWG. NO.	CURRENT REV. DATE	TITLE

INDEX OF SHEETS

SHEET NAME	SHEET NO.
TITLE SHEET, GENERAL & SPECIAL NOTES	1
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ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	9-5-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-4	4-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RDOI-S-II	4-4-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RDOI-S-IIA	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RDOI-TS-I	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS

CULVERTS AND ENDWALLS

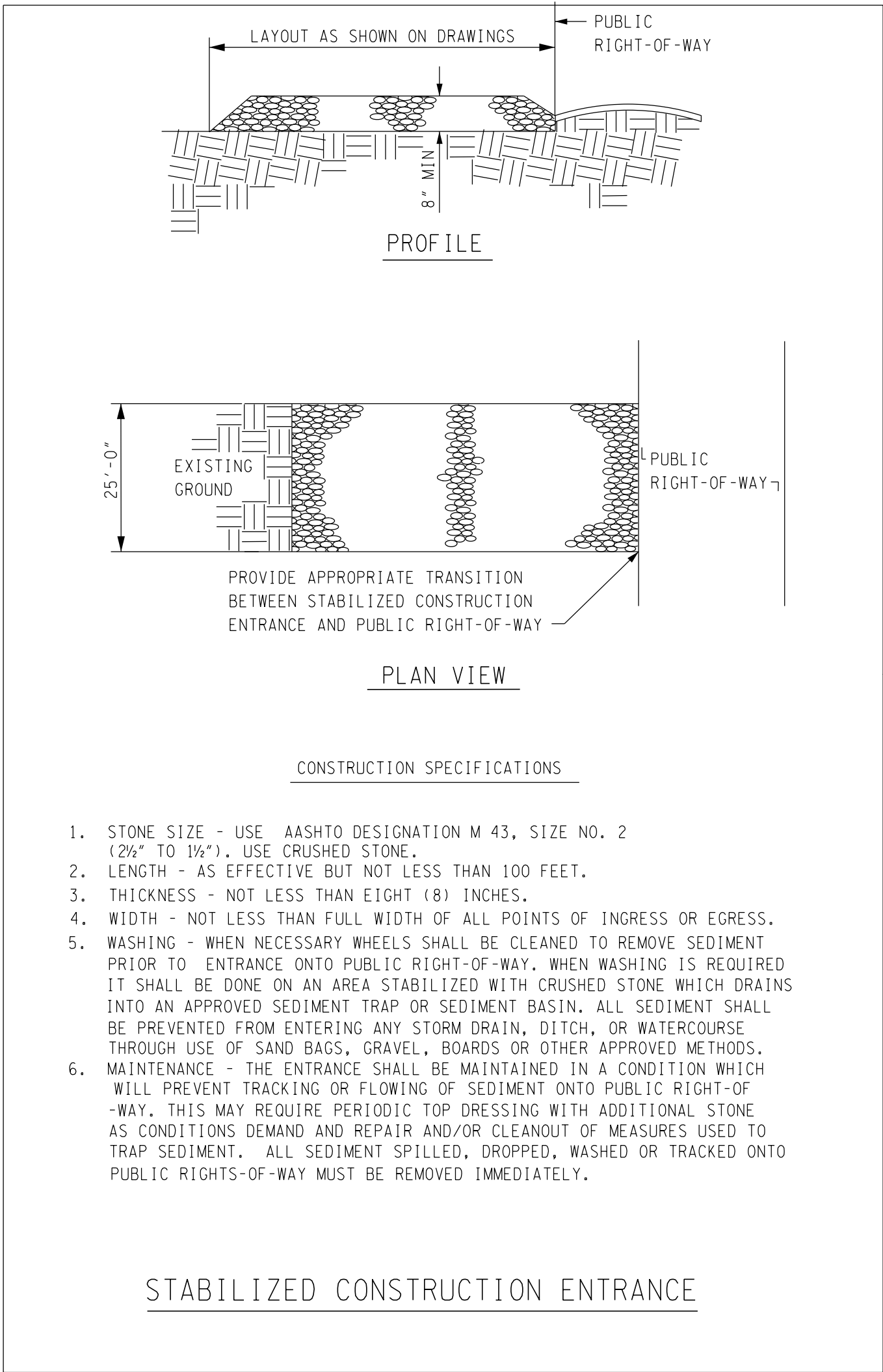
D-CE-1	7-29-96	REVISED CONSTRUCTION DETAILS
D-PB-1	1-2-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-4	12-11-14	STRAIGHT CONCRETE ENDWALL
D-SEW-1A	3-1-12	SIDE DRAIN CONC.ENDWALL
D-PE-30A & 30B	3-1-12	30" CONC.ENDWALL CROSS DRAIN

ROADWAY AND PAVEMENT APPURTENANCES

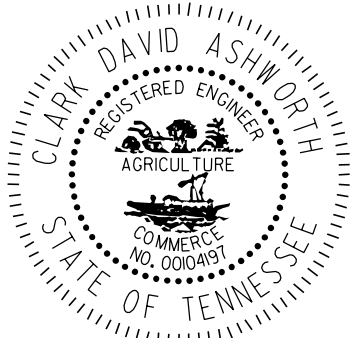
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	5-27-01	RAMPS TO SIDE ROADS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-1	8-1-12	DEWATERING STRUCTURE
EC-STR-3B	8-1-12	SILT FENCE
EC-STR-3E	4-1-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	8-1-12	ROCK CHECK DAM
EC-STR-7	8-1-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-II	8-1-12	CULVERT PROTECTION TYPE I
EC-STR-34	8-1-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION



THE EXISTING CONDITIONS ALREADY HAVE A STABILIZED CONSTRUCTION ENTRANCE IF THIS ENTRANCE IS REMOVED BEFORE PLACEMENT OF THE ASPHALT PAVEMENT THIS DETAIL SHALL BE FOLLOWED



INDEX OF SHEETS,STD DWGS & CONSTRUCTION ENTRANCE DETAIL
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE

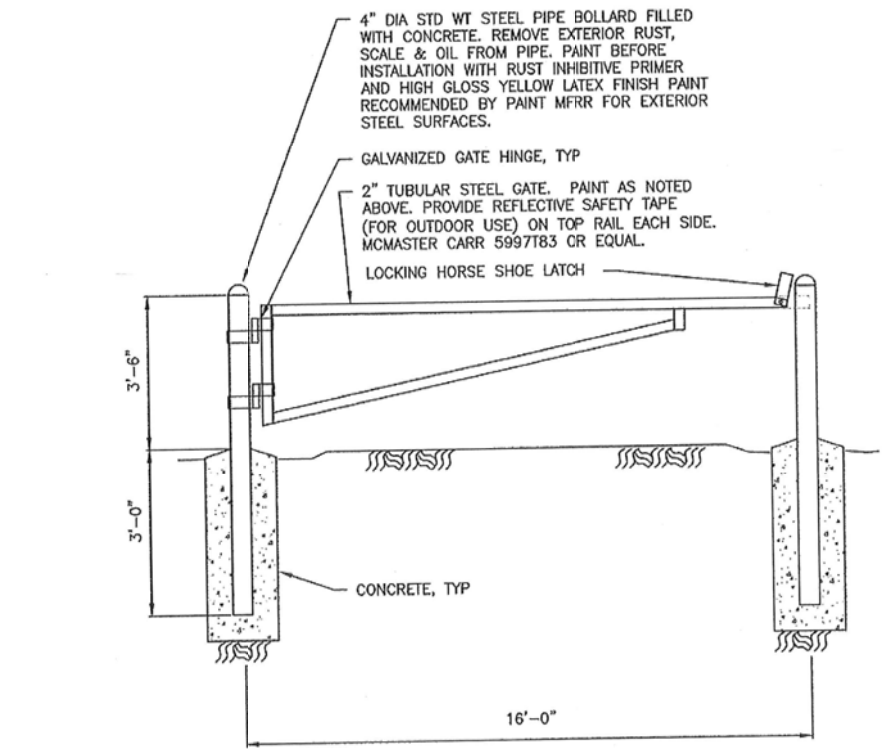
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ESTIMATED ROADWAY QUANTITIES		
ITEM	QUANTITY	UNIT
Base Bid - Holston Bend Road Extension		
MOBILIZATION	1	L.S.
CONSTRUCTION STAKES, LINES, AND GRADES	1	L.S.
CLEAR & GRUBBING	1.4	AC
ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	3858	C.Y.
TEMPORARY SILT FENCE (WITHOUT BACKING)	1373	L.F.
SEEDING & MULCHING	105	UNITS
MINERAL AGGREGATE, TYPE A BASE, GRADING D	1819	TON
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	755	TON
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	702	TON
BITUMINOUS MATERIAL FOR PRIME COAT (PC)	7	TON
BITUMINOUS MATERIAL FOR TACK COAT (TC)	1	TON
ASPHALT CEMENT (PG64-22) (ACS) GRADING D	317	TON
30" CONCRETE PIPE CULVERT	9	L.F.
30" ENDWALL (CROSS DRAIN)	1	EA.
CLASS A CONCRETE (30" INLET ENDWALLS)	3	C.Y.
REINF.STEEL (30" INLET ENDWALLS)	90	LB
TURF REINF.MATTING TYPE I	1100	SY
CHECK DAMS	800	SF
ENHANCED ROCK CHECK DAM	1	EA.
16" CLASS 350 D.I.P. WITH STONE BACKFILL	130	L.F.
1" WATER METER ASSEMBLY	1	EA.
FIRE HYDRANT ASSEMBLY WITH VALVE	1	EA.
ELECTRICAL CONDUIT - 6" SCH.40 PVC	150	L.F.
ELECTRICAL CONDUIT - 2" SCH.40 PVC	100	L.F.
12" STEEL GAS SLEEVE	30	L.F.
STREET LIGHTING	1	EA.
Alternate - Access Road		
ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	726	C.Y.
TEMPORARY SILT FENCE (WITHOUT BACKING)	2301	L.F.
SEEDING & MULCHING	42	UNITS
MINERAL AGGREGATE, TYPE A BASE, GRADING D	740	TON
ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	368	TON
BITUMINOUS MATERIAL FOR PRIME COAT (PC)	11	TON
BITUMINOUS MATERIAL FOR TACK COAT (TC)	1	TON
ASPHALT CEMENT (PG64-22) (ACS) GRADING D	6	TON
18" CONCRETE PIPE CULVERT	27	L.F.
18" ENDWALL (SIDE DRAIN)	2	EA.
RIPRAP	69	TON
TURF REINF.MATTING TYPE I	623	SY
TURF REINF.MATTING TYPE II	934	SY
CHECK DAMS	1120	SF

NOTE: QUANTITIES ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND FOR INCLUDING ANY INCIDENTAL ITEMS NOT INCLUDED IN THE ABOVE QUANTITIES. THE CONTRACT WILL BE A LUMP SUM VALUE.



TUBULAR GATE DETAIL

NTS

DETAIL 1/3

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	3



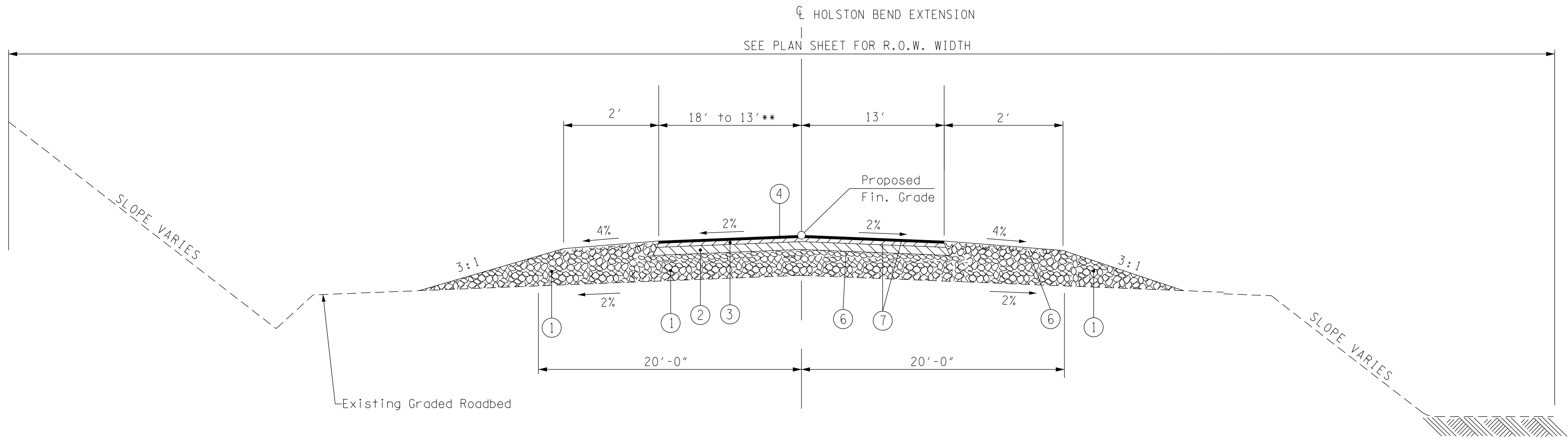
ESTIMATED UTILITIES QUANTITIES
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE

DATE: 7-15-15

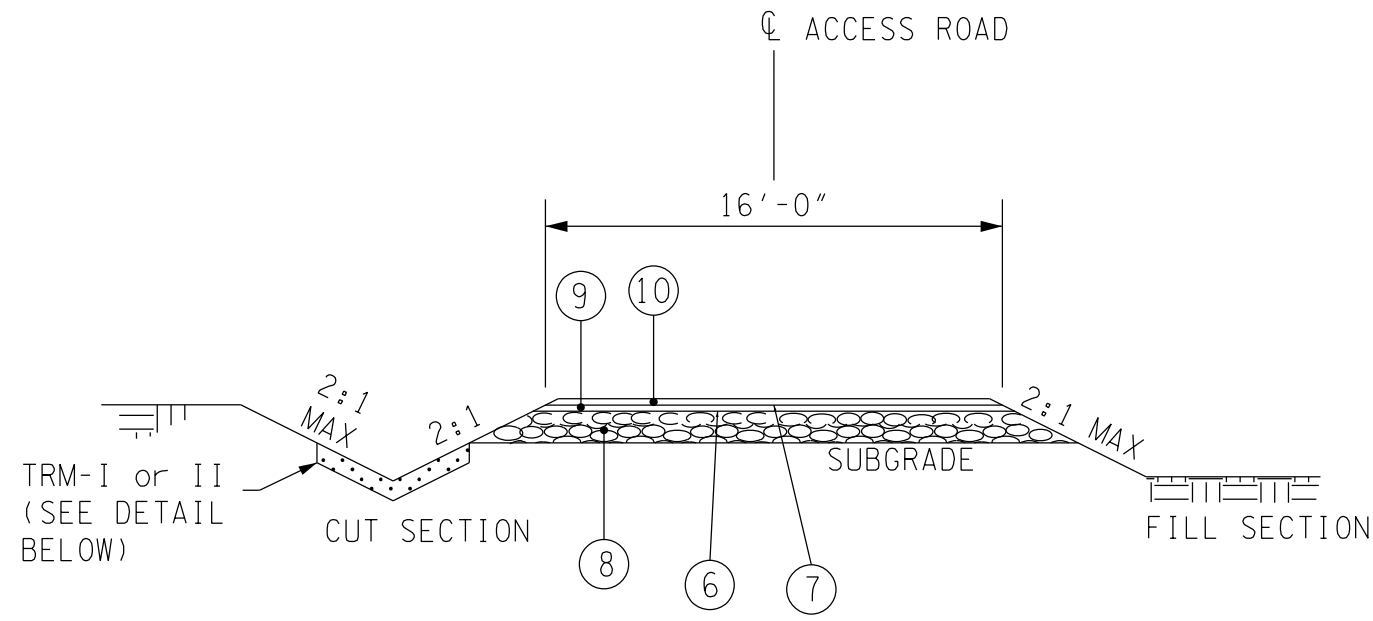


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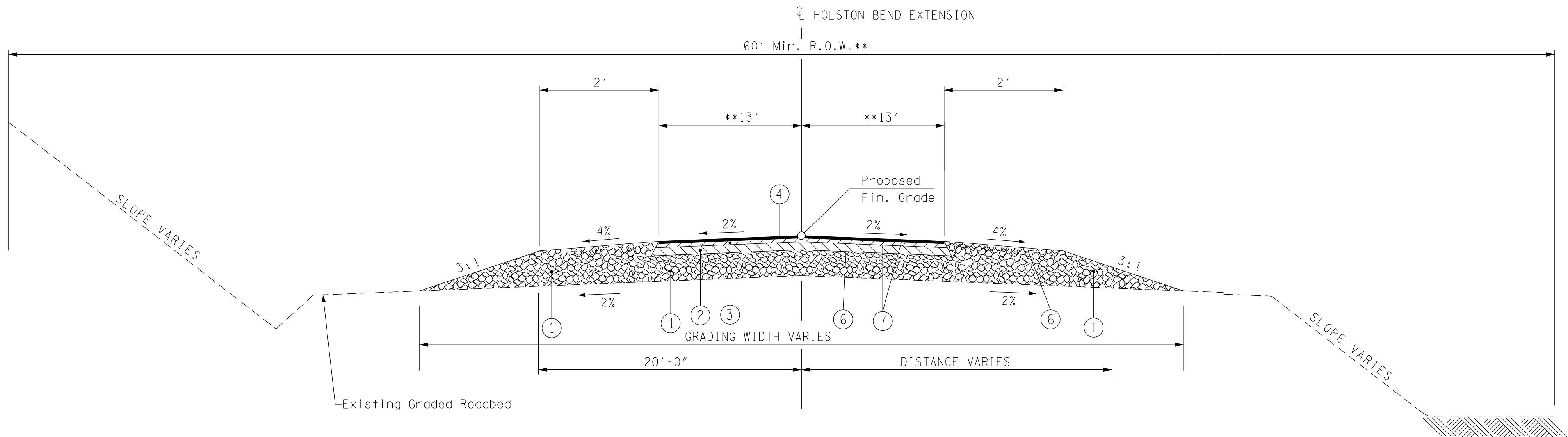
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CONST.	2015	HOLSTON BEND EXT.	4



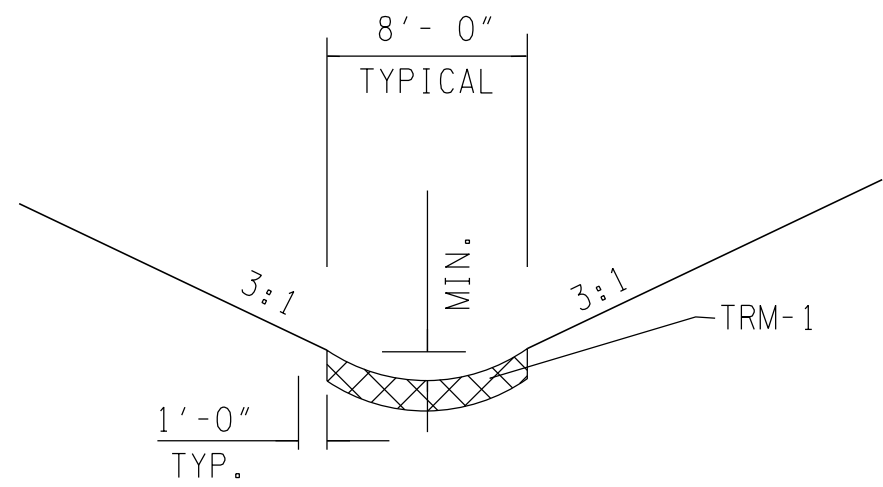
TYPICAL SECTION (2-LANES)
Sta. 100+60.00 To Sta. 101+54.56
Sta. 100+60.00 To Sta. 101+54.56 (Transition Left Lane width from 18' to 13' to match existing road width)



TYPICAL SECTION
ACCESS ROAD



TYPICAL SECTION (2-LANES)
Sta. 102+00.00 To Sta. 109+96.41
**Sta. 109+96.41 To Sta. 111+79.09 (SEE PLAN FOR WIDTHS)



PROP. "V" BOTTOM
DITCH (TRM-I OR II)

ROAD NAME	FROM STA.	TO STA.	LT/RT
TRM-I HOLSTON EXT. STA	103+00	STA 111+50	LT
TRM-I HOLSTON EXT. STA	99+00	STA 102+00	RT
TRM-II ACCESS RD STA	10+50	STA 17+97	LT
TRM-I ACCESS RD STA	18+00	STA 28+50	LT

PROPOSED PAVEMENT SCHEDULE

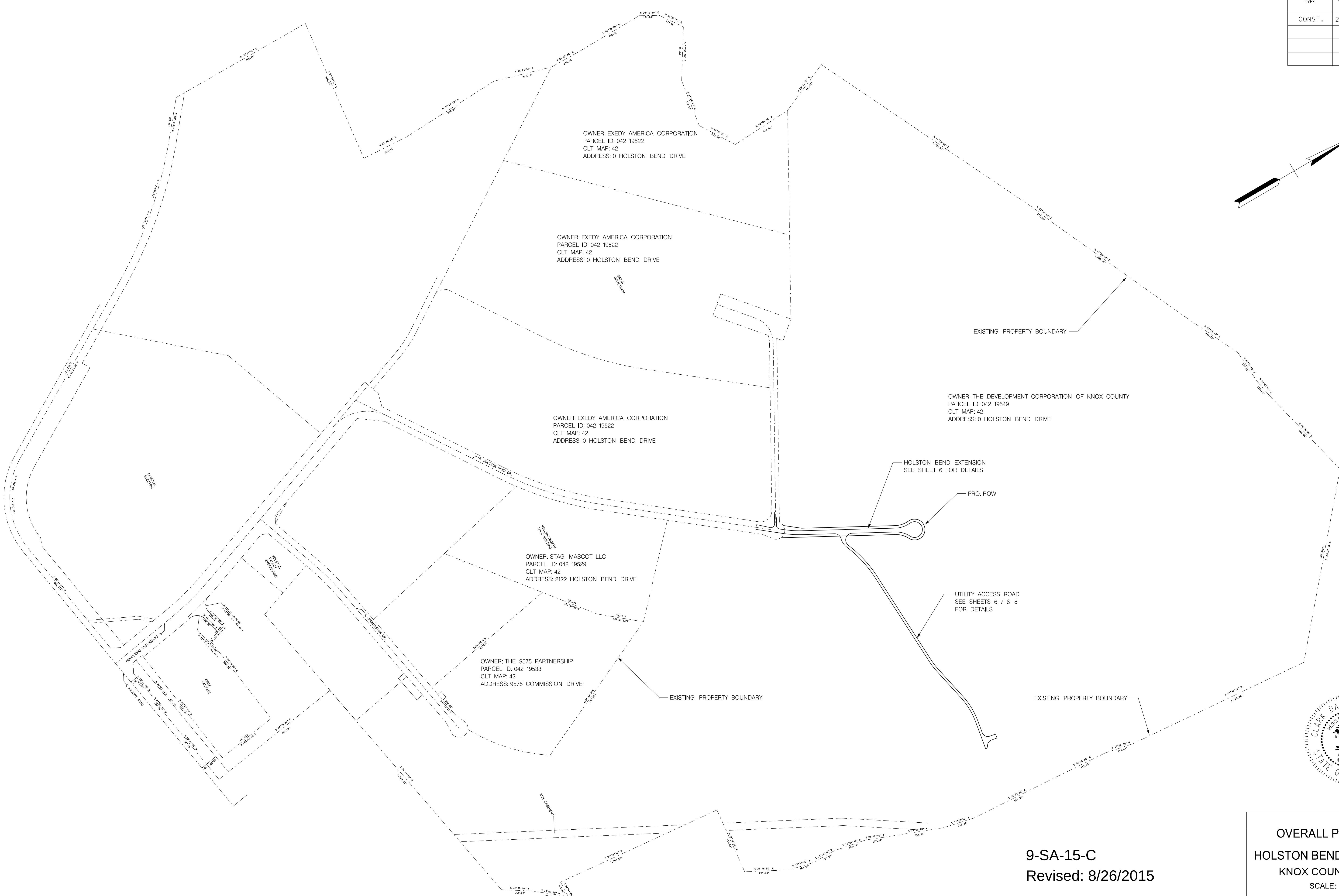
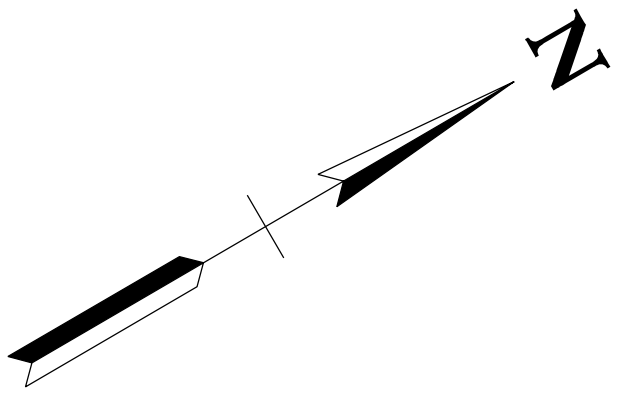
MINERAL AGGREGATE BASE ① MINERAL AGGREGATE BASE AT 8"+ THICK UNDER ROADWAY AND FULL DEPTH THROUGH SHOULDERS. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D.	BITUMINOUS SURFACE COURSE ④ BITUMINOUS SURFACING (ROADWAY) AT 1 1/2"+ THICK (159 LBS. PER SQ. YD.) 411-01.01 ASPHALT CEMENT (PG64-22)(ACS) GRADING D 411-01.02 AGGREGATE (ACS) GRADING D	TACK COAT ⑦ 403-01 BITUMINOUS MATERIAL FOR TACK (TC) AT 0.02 GAL. PER SQ. YD.
	STABILIZED SHOULDER ⑤ STABILIZED SHOULDER AT 1 1/2"+ THICK (161.25 LBS. PER SQ. YD.) 411-01.07 ASPHALT CONCRETE MIX (PG64-22)(ACS) GRADING E	MINERAL AGGREGATE BASE ⑧ MINERAL AGGREGATE BASE AT 4"+ THICK UNDER ROADWAY AND FULL DEPTH THROUGH SHOULDERS. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D.
	PRIME COAT ⑥ 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.30 GAL. TO 0.35 GAL. PER SQ. YD.	BITUMINOUS LEVEL COURSE ⑨ BITUMINOUS LEVELING AT 1 3/4"+ THICK (197.75 LBS. PER SQ. YD.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING BM-2
BITUMINOUS LEVEL COURSE ③ BITUMINOUS LEVELING AT 3"+ THICK (339 LBS. PER SQ. YD.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING BM-2		BITUMINOUS SURFACE COURSE ⑩ BITUMINOUS SURFACING (ROADWAY) AT 1 1/4"+ THICK (132.5 LBS. PER SQ. YD.) 411-01.01 ASPHALT CEMENT (PG64-22)(ACS) GRADING D 411-01.02 AGGREGATE (ACS) GRADING D



HOLSTON BEND DRIVE EXTENSION TYPICAL SECTIONS

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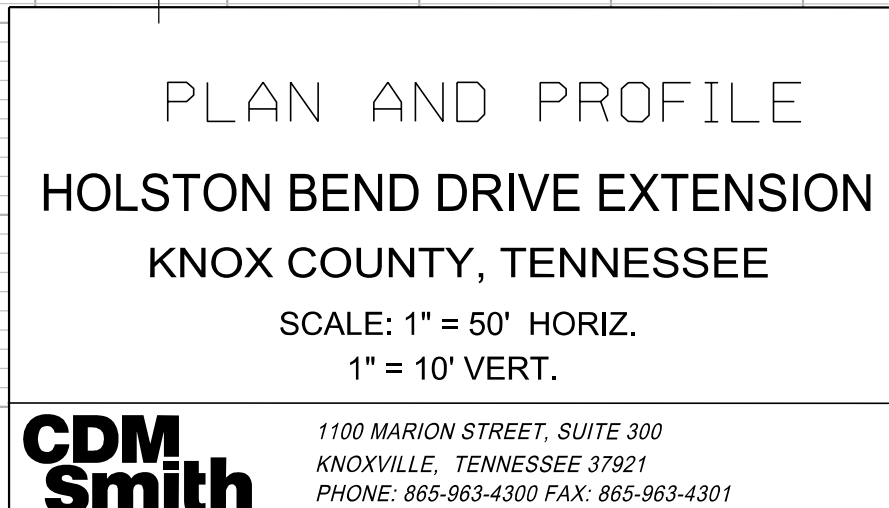
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	5



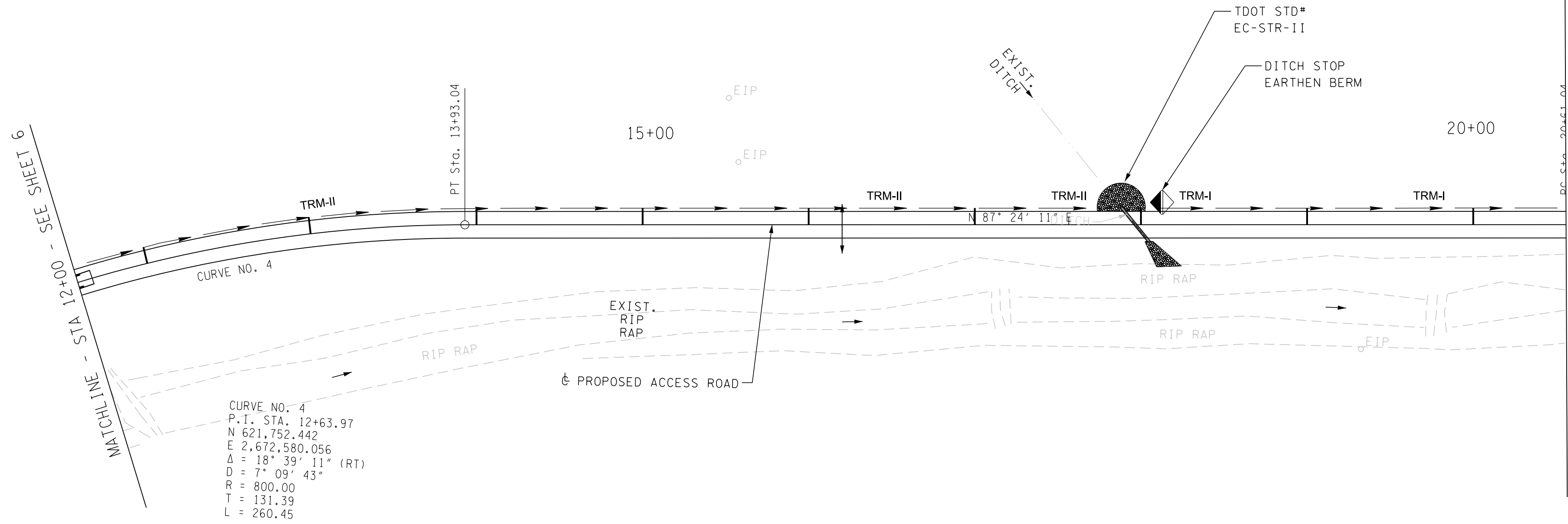
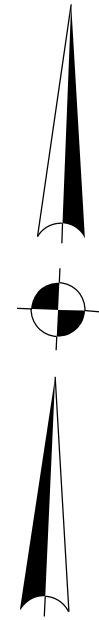
9-SA-15-C
Revised: 8/26/2015

OVERALL PROPERTY PLAN
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE
SCALE: 1" = 300'

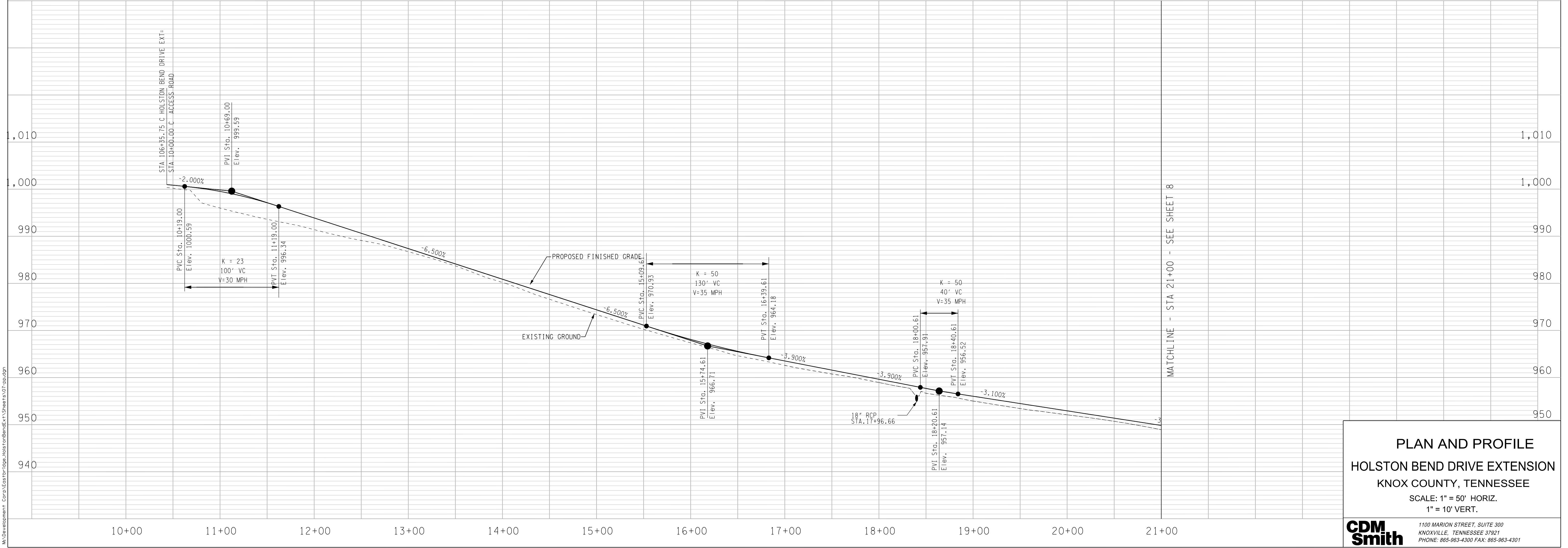
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	7



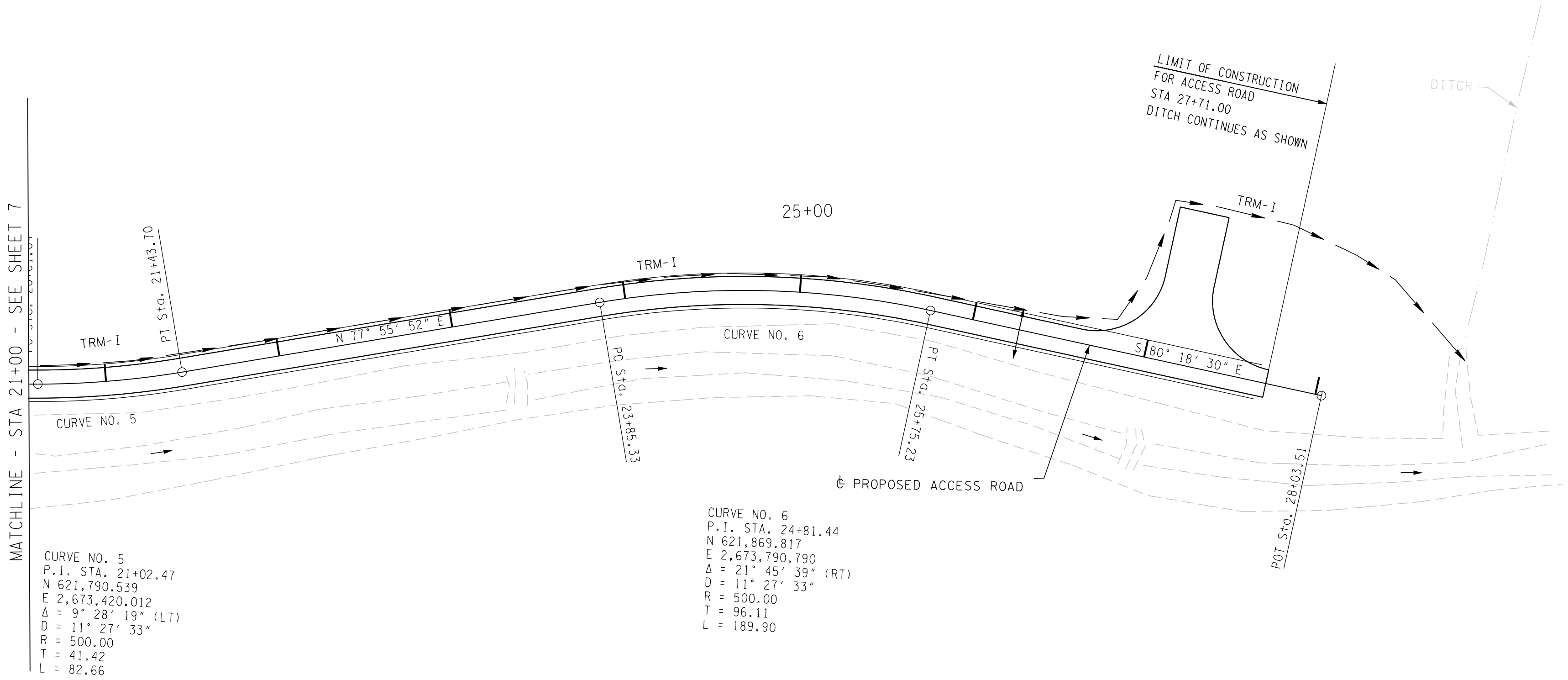
9-SA-15-C
Revised: 8/26/2015



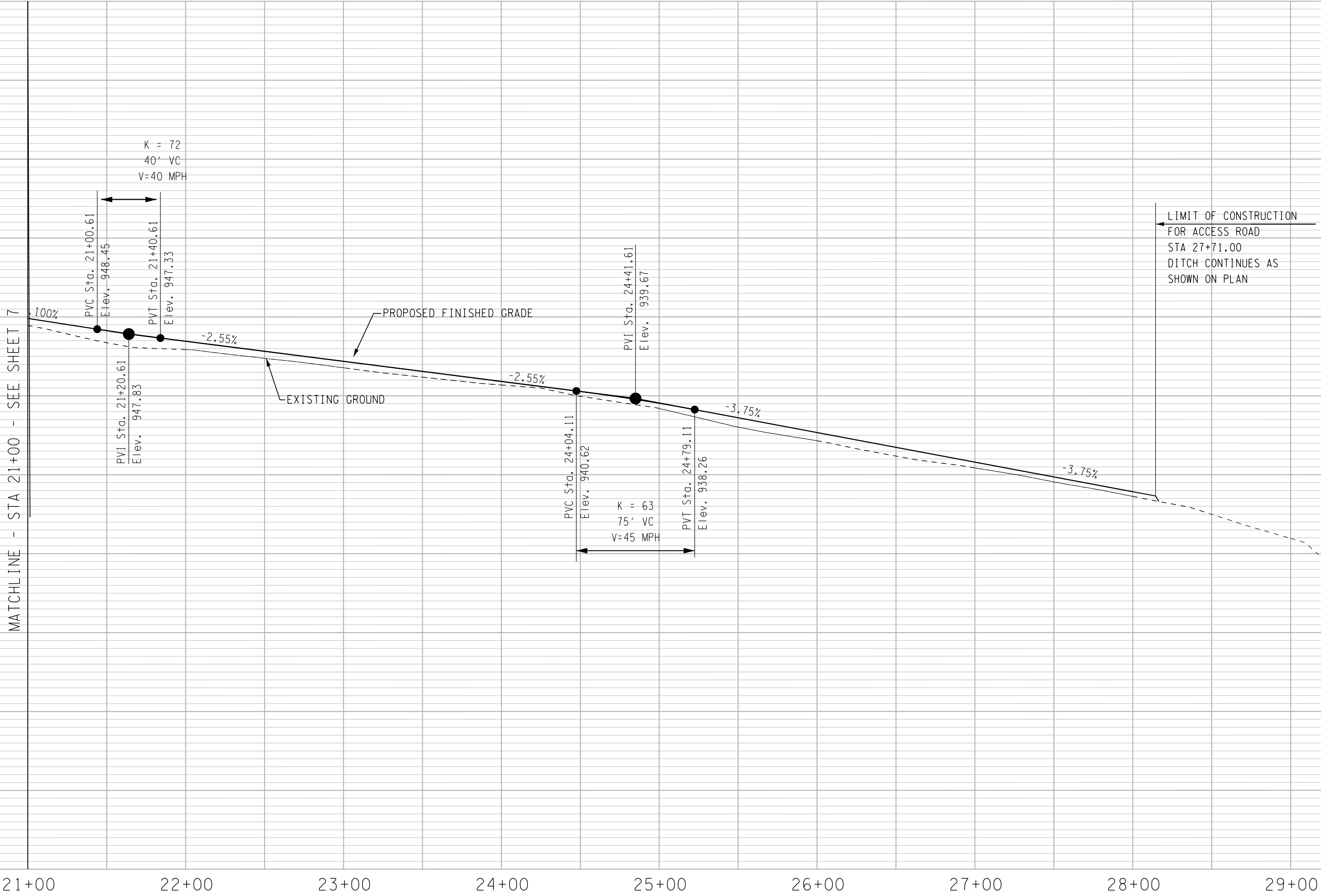
PLAN AND PROFILE
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	8



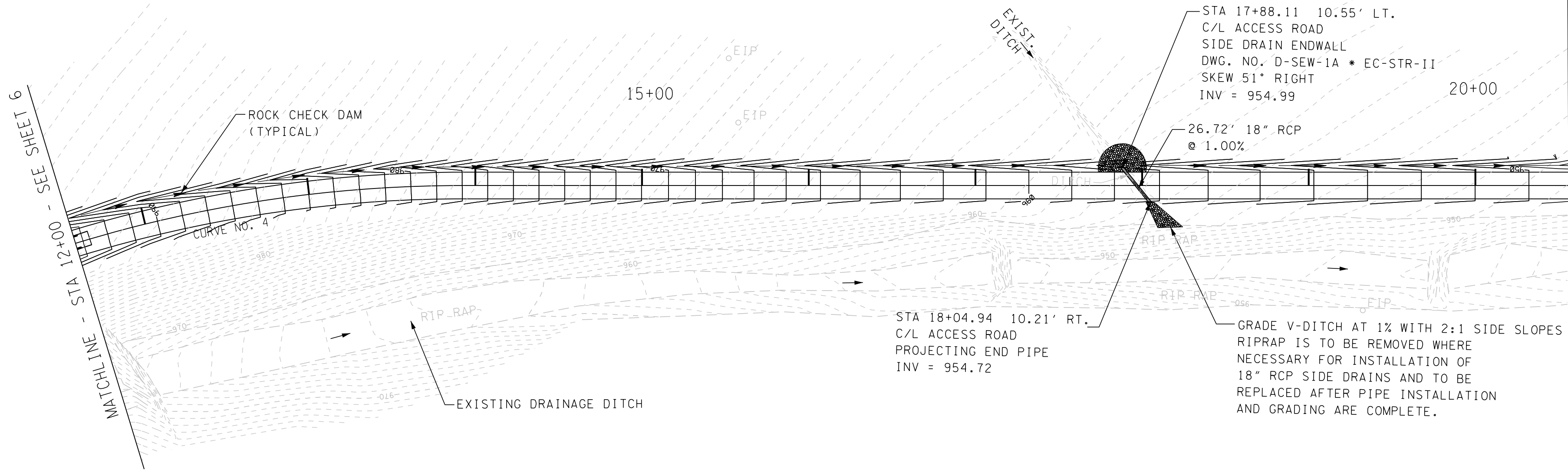
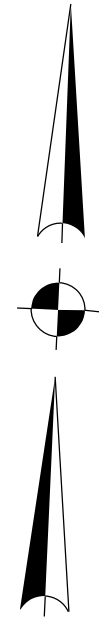
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PLAN AND PROFILE
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE
SCALE: 1" = 50' HORIZ.
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	10

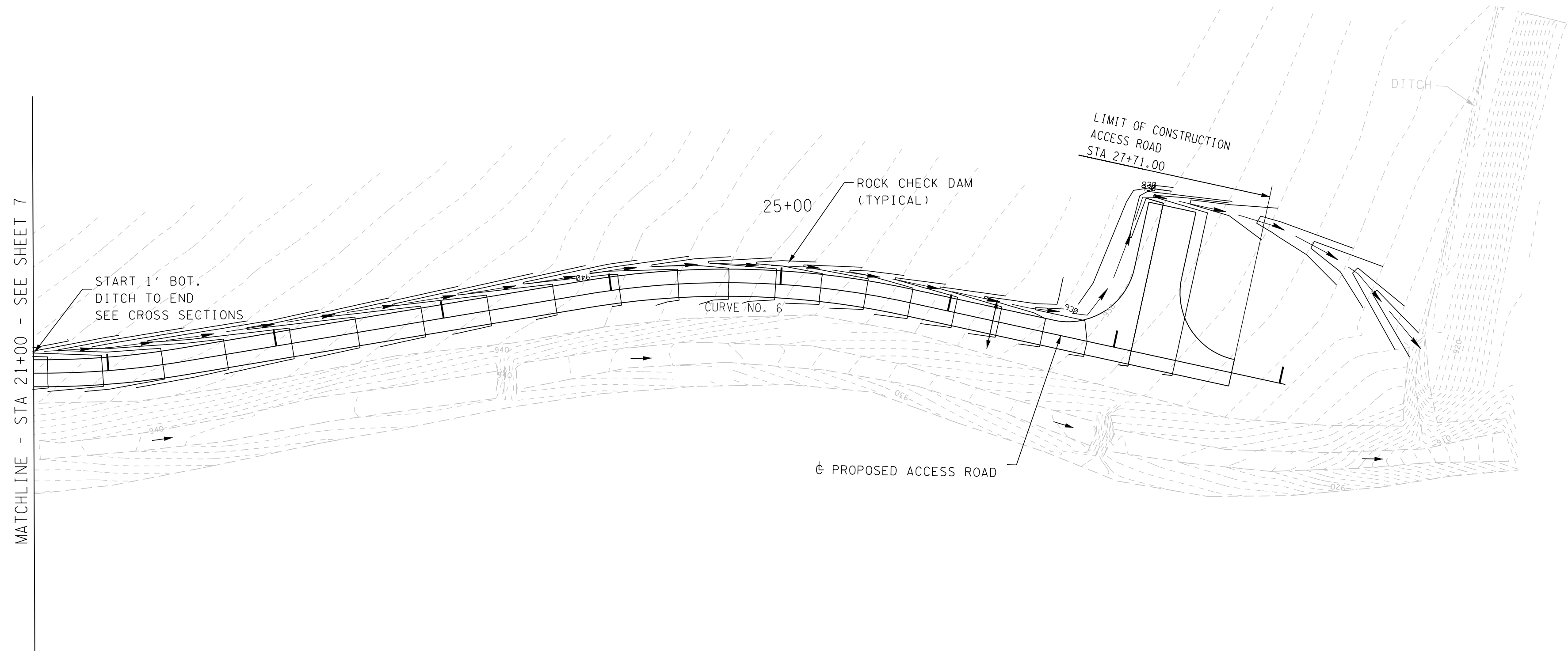


9-SA-15-C
Revised: 8/26/2015

GRADING & DRAINAGE
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	HOLSTON BEND EXT.	11



9-SA-15-C

Revised: 8/26/2015

GRADING AND DRAINAGE
HOLSTON BEND DRIVE EXTENSION
KNOX COUNTY, TENNESSEE
SCALE: 1" = 50' HORIZ.
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