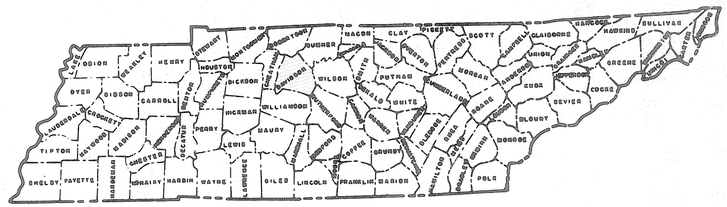
SCANNED
JAN 18 2002
BY TRC

INDEX OF SHEETS
(SEE SHEET NO. 1A)

FED. ROAD DIST. NO.	TENN	YEAR	SHEET NO.
3		1981	1
FED. AID PROJ. NO.		I-440-4(44)212	
STATE PROJ. NO.		19015-3110-44	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS



DAVIDSON COUNTY

BRIDGES AND APPROACHES FOR WINFORD AVENUE, NOLENSVILLE ROAD (I-440 & L&N R.R.), DORTCH AVENUE PEDESTRIAN OVERPASS, AND FOSTER AVENUE.

BRIDGES AND APPROACHES

INTERSTATE HIGHWAY NO. I-440 PARKWAY F.A.H.S. NO. I-440

TRAFFIC DATA	
A.D.T. (1981)	55,000
A.D.T. (2001)	64,000
D.H.V. (2001)	6,400
D	55-45
T	8 %
V	60 M.P.H.

THIS PROJECT WAS NOT DESIGNED BASED ON TRAFFIC SHOWN, BUT AS DESCRIBED IN THE F.E.I.S. AS APPROVED BY THE F.H.W.A. ON 3-19-80.

NOTE: FOR D.H.V. TRAFFIC VOLUMES ON WINFORD AVENUE, NOLENSVILLE ROAD, AND FOSTER AVENUE, SEE PROPOSED LAYOUT SHEETS.



NO EQUATIONS
NO EXCLUSIONS

APPROVED _____
ROADWAY DESIGN ENGINEER

DATE _____

APPROVED _____
DIRECTOR, BUREAU OF HIGHWAYS

DATE _____

APPROVED _____
COMMISSIONER

SPECIAL NOTE

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

ROADWAY	LENGTH	0.00	MILES
* BRIDGE	LENGTH	0.00	MILES
PROJECT	LENGTH	0.00	MILES

* BRIDGES ARE ALL ON CROSS-STREETS, WINFORD AVENUE (.044 MI.), NOLENSVILLE ROAD @ L & N R.R. (.028 MI. AVERAGE), NOLENSVILLE ROAD @ I-440 (.039 MI.), DORTCH AVENUE (.039 MI.), FOSTER AVENUE (.038 MI.).

PLANS PRINTED

DATE	PURPOSE	INFO. REC.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ENGINEER DATE

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION FORMERLY DEPARTMENT OF HIGHWAYS DATED JANUARY 1, 1968 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

DESIGNER REAVIS PENDERGRASS CHECK BY _____

BRUNING 44-560 29426

SCANNED

SHEET NO.	SHEET NAME
1	TITLE SHEET
1A	INDEX
2, 2A	TYPICAL SECTIONS
2B, 2C	GENERAL NOTES AND SCOPE - OF - WORK
2D, 2E	ESTIMATED ROADWAY QUANTITIES, AND FOOTNOTES
2F	ESTIMATED BRIDGE QUANTITIES
2G - 2H	TABULATED QUANTITIES
2I - 2J	DETAILS (ROADWAY)
2K	DETAILS (HI-DRO CELL ATTENUATION DEVICE, DWG. NO. M-93-89A).
2L	DETAILS (8" WATER MAIN ATTACHMENT TO NOLENSVILLE ROAD BRIDGE OVER I-440).
2M	TRAFFIC CONTROL PLAN (NOLENSVILLE ROAD)
2N, 2Ø	TRAFFIC CONTROL PLAN (GRADING PROJECT I-440-4(33)211)(FOR INFORMATION ONLY)
2P	PRIORITY OF CONSTRUCTION FROM PROJ. NO. I-440-4(33)211
**3-7	PRESENT LAYOUT SHEETS
*8-12	PLAN AND PROFILE SHEETS
**13-13D	INTERCHANGE RAMP PROFILES (NOLENSVILLE ROAD INTERCHANGE)
14	UTILITIES
	BRIDGE, WINFORD AVENUE OVER I-440 @ STA. 406+74.88
15	LAYOUT DWG. NO. M-93-54
16 - 34	DETAILS, DWG. NO. M-93-55 THRU M-93-73
	BRIDGE WIDENING, NOLENSVILLE ROAD OVER L&N. R.R. @ STA. 8+48.09
35	LAYOUT DWG. NO. M-93-74
36-50	DETAILS, DWG. NO. M-93-75 THRU M-93-89
	BRIDGE, NOLENSVILLE ROAD OVER I-440 @ STA. 421+56.68
51	LAYOUT DWG. NO. M-93-90
52-63	DETAILS, DWG. NO. M-93-91 THRU M-93-102
	BRIDGE, DORTCH AVENUE PEDESTRIAN OVERPASS OVER I-440 @ STA. 437+11.74
64	LAYOUT DWG. NO. M-93-103
65-76	DETAILS, DWG. NO. M-93-104 THRU M-93-115
	BRIDGE, FOSTER AVENUE OVER I-440 @ STA. 447+66.48
77	LAYOUT DWG. NO. M-93-116
78-94	DETAILS, DWG. NO. M-93-117 THRU M-93-133
95	SOILS INFORMATION (WINFORD AVENUE)
96-104	ROADWAY CROSS-SECTIONS

*SHEET NO. 10A LAYOUT OF NOLENSVILLE ROAD DETOUR
10B CURVE DATA NOLENSVILLE ROAD INTERCHANGE
10C CONTOUR LAYOUT NOLENSVILLE ROAD AREA

**SHEET NOS. 3,4,5,6,7,10A,10B,13,13A,13B,13C,13D ARE FILED IN FILE IN 2N, 2Ø UNDER PROJ. NO. I-440-4(33)211

DWG. NO.	CURRENT REVISION DATE	SHEET NAME
BRIDGE APPURTENANCES		
H-5-111	11-27-73	PILE DETAILS
K-38-158	3-21-73	PORTABLE BARRIER RAIL
K-38-161	12-13-77	BRIDGE RAILING CONCRETE PARAPET WITH PEDESTRAIN RAILING
K-80-14	8-27-76	REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS
K-80-15A	NEW DRAWING	PRECAST PRESTRESSED BRIDGE DECK PANELS
K-85-150	1-9-75	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS
K-86-144	11-8-79	REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS
M-8-149	11-20-75	SUPPORT DETAILS FOR LIGHT STANDARDS
M-28-1	1-28-76	BRIDGE RAILING CONCRETE PARAPET
M-42-148	7-8-76	STANDARD GUARDRAIL ATTACHMENT TO BRIDGES
ROADWAY DESIGN STANDARDS		
RD-A-1	9-18-79	STANDARD ABBREVIATIONS
RD-L-1	3-15-76	STANDARD LEGEND
RD-L-2	9-18-79	STANDARD LEGEND
RD-S-11	4-4-77	ROADSIDE SLOPE DEVELOPMENT
RD-S-11A	4-4-77	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD-SA-1	4-4-77	SAFETY APPROACH TO UNDERPASSES-GRADING DESIGN
RD-SE-1	11-9-76	STANDARD SUPERELEVATION DETAILS
RD-UD-1		UNDERDRAIN DETAILS
RD-UD-2		UNDERDRAIN DETAILS
DRAINAGE - CULVERTS AND ENDWALLS		
D-CE-1	1-1-76	CONSTRUCTION DETAILS
D-PB-1	2-25-77	CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-4		CONCRETE ENDWALLS, STRAIGHT "U" AND "L" TYPE
D-PE-6U		ENDWALL WITH STEEL GRATE (15"-48" PIPE, 6:1 SLOPE)
D-PG-3	3-2-76	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
DRAINAGE - CATCH BASINS AND MANHOLES		
D-CB-9	1-1-76	STANDARD APRON SPILLWAY AT BRIDGE ENDS
D-CB-12	3-15-76	STANDARD NO. 12 CATCH BASIN
D-CB-12-32	3-15-76	STANDARD NO. 12-32 CATCH BASIN AND CASTINGS
D-CBB-12	9-11-78	TYPE "B" FRAME AND GRATE FOR NOS. 10,12,14 AND 15 CATCH BASINS
ROADWAY AND PAVEMENT APPURTENANCES		
RP-C-15	1-1-76	STANDARD CONCRETE CURBS AND GUTTERS
RP-C-16	3-15-76	STANDARD CIRCULAR CONCRETE CURB AND GUTTER
RP-D-14	1-1-76	STANDARD CONCRETE DRIVEWAYS
RP-H-1	11-9-76	HANDICAP RAMP
RP-I-5	1-1-76	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-J-3	NEW DRAWING	PORTLAND CEMENT CONCRETE PAVING JOINT TYPES AND SPACING FOR DESIGN SPEED 40 M.P.H. AND LESS
RP-J-5	NEW DRAWING	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	NEW DRAWING	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	NEW DRAWING	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	NEW DRAWING	3/4" AND 1 3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	NEW DRAWING	3/8", 3/4", AND 1 3/4" ELASTIC JOINT SEALS
RP-J-15	NEW DRAWING	METAL LONGITUDINAL JOINTS
RP-J-17	NEW DRAWING	DOWEL ASSEMBLIES
RP-J-19	NEW DRAWING	DOWEL ASSEMBLIES
RP-J-21	NEW DRAWING	DOWEL ASSEMBLIES
RP-R-1	6-6-80	STANDARD RAMPS TO SIDE ROADS
RP-S-7	1-1-76	STANDARD CONCRETE STEPS AND SIDEWALKS
SAFETY APPURTENANCES AND FENCE		
S-F-10	2-25-77	STANDARD RIGHT-OF-WAY STOCK FENCE
S-GR-1	9-21-77	W-BEAM BARRIER RAIL ELEMENT DETAILS AND SPECIFICATIONS
S-GR-2	9-21-77	W-BEAM BARRIER POST DETAILS AND SPECIFICATIONS
S-GR-3	9-21-77	W-BEAM BARRIER FASTENING HARDWARE AND REFLECTORS
S-GR-4	4-4-77	W-BEAM BARRIER TERMINAL ELEMENT DETAILS
S-GR-5	9-21-77	GUARDRAIL TERMINAL ANCHOR TYPE II
S-GR-6	4-4-77	GUARDRAIL BARRIER TREATMENT FOR PIERS IN MEDIAN
S-GR-7E	9-21-77	TERMINAL ANCHOR TYPE 13 FOR TRAILING ENDS
S-GR-9	4-4-77	LENGTH OF NEED AND TERMINAL REQUIREMENTS IN FILLS
TRAFFIC CONTROL APPURTENANCES		
T-M-1	NEW DRAWING	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
EROSION CONTROL AND LANDSCAPING		
EL-P-1	3-22-79	TEMPORARY POLLUTION CONTROL STRUCTURES
EL-P-2	3-22-79	TYPICAL TEMPORARY POLLUTION CONTROL STRUCTURE LOCATIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	1A

REVISED: 6/8/81; SHEET 10C ADDED TO PLANS.

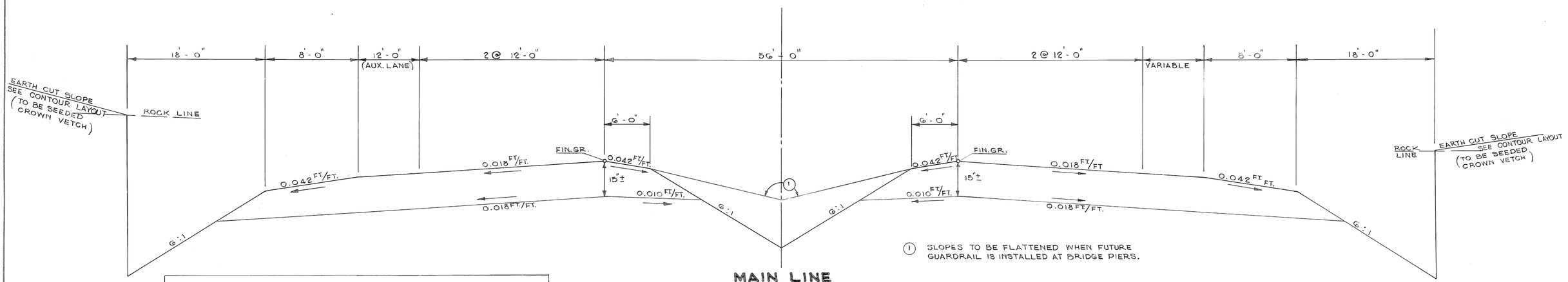
REV. 6-22-81: SHEET NOS. 2N, 2Ø ADDED TO LIST OF SHEET NOS. FILED UNDER PROJ. NO. I-440-4(33)211.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

INDEX

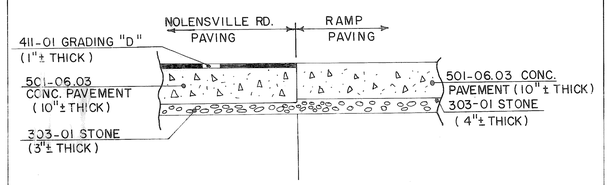
29411 BRUNING

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	2

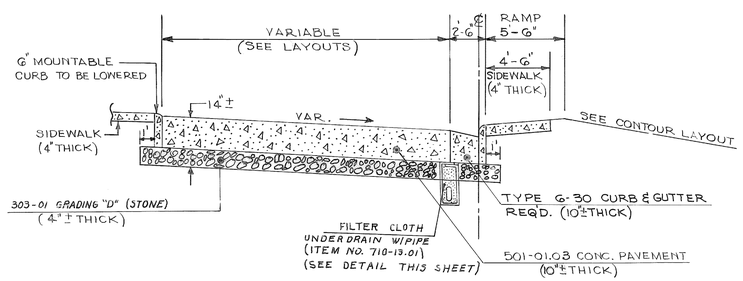


① SLOPES TO BE FLATTENED WHEN FUTURE GUARDRAIL IS INSTALLED AT BRIDGE PIERS.

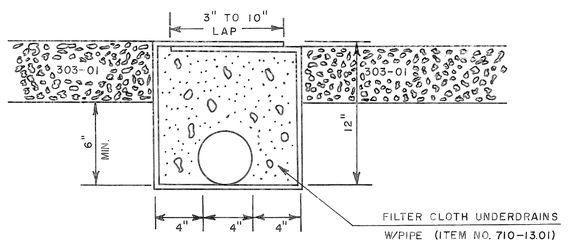
MAIN LINE
TANGENT SECTION
STA. 419+50± TO STA. 420+30±



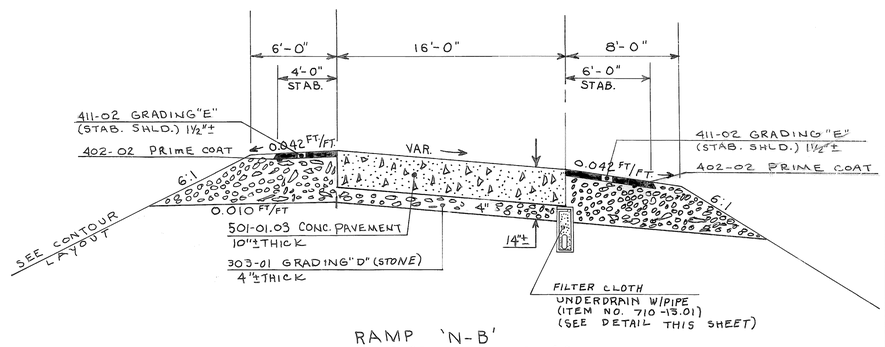
DETAIL OF NOLENSVILLE ROAD
PAVING MATCHING RAMP PAVING



TYPICAL SECTION INTERCHANGE RAMP
(ACCELERATION ON DECELERATION LANES)



DETAIL OF FILTER CLOTH UNDERDRAIN



RAMP 'N-B'
STA. 2+25 TO STA. 3+00

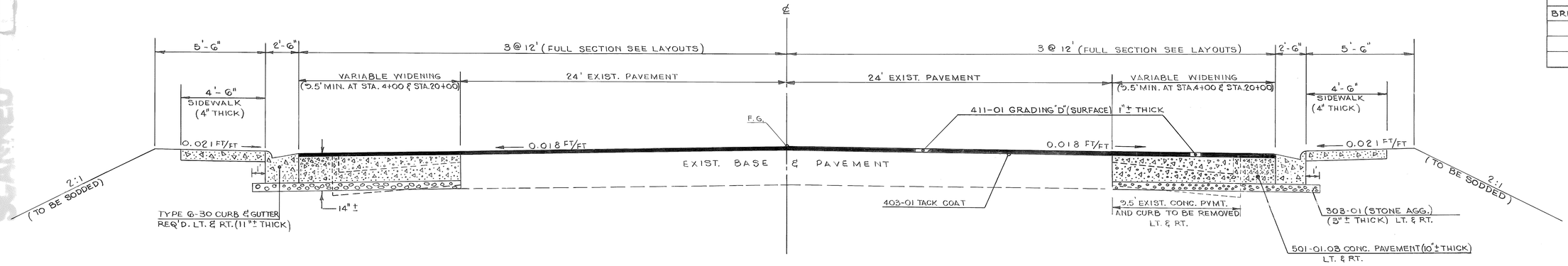
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TYPICAL SECTIONS

SCANNED
SCANNED FEB 1 2002 BY TRC
BRUNING 23411

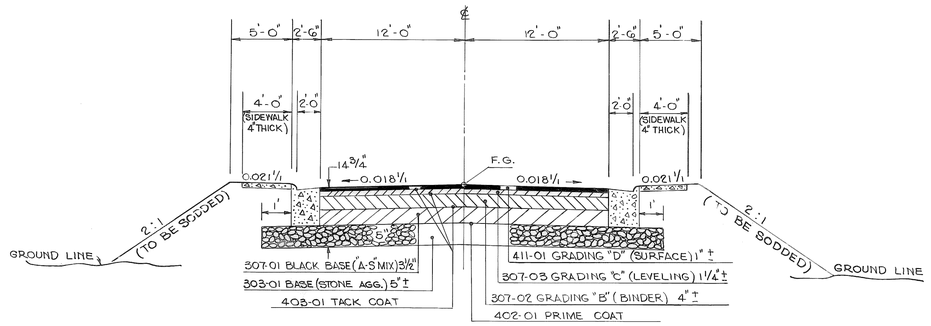
TENN. STATE HIGHWAY DEPT. Plans Proj. File No.

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	2A

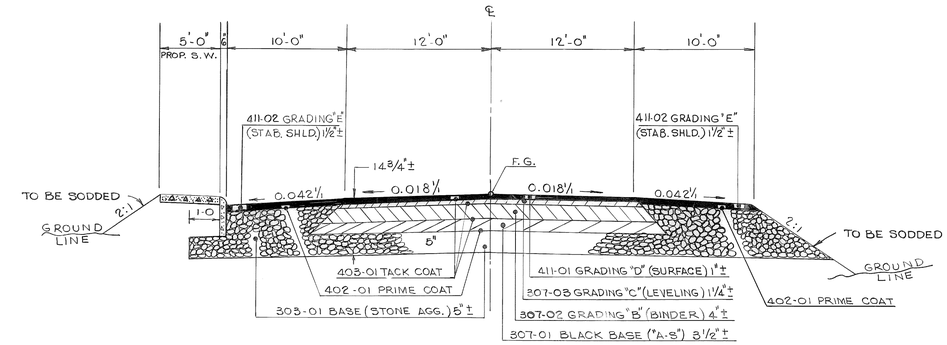


"NOTE" CONCRETE TO BE HIGH EARLY STRENGTH.

NOLENSVILLE PIKE

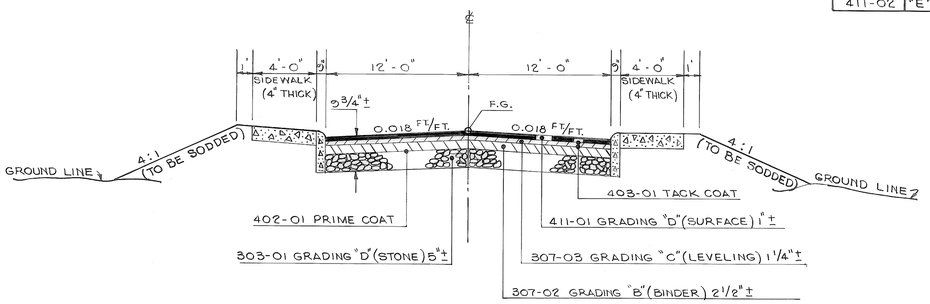


WINFORD AVE.

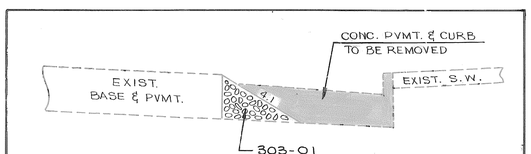


FOSTER AVE.

PAVEMENT WEIGHTS			
ITEM NOS.	GRADING	THICKNESS	LBS/S.Y. (APPROX.)
411-01	"D" (SURFACE)	1"	100
307-03	"C" (LEVELING)	1 1/4" ±	137.5
307-02	"B" (BINDER)	4" ±	440
307-01	"A-S" (BL. BASE)	3 1/2" ±	315
411-02	"E" (STAB. SHLD.)	1 1/2" ±	165



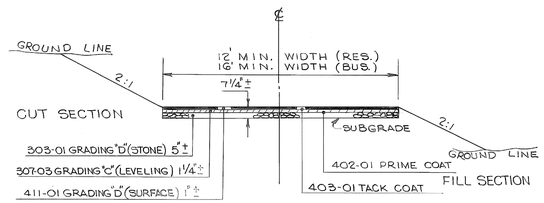
RAMP TO BERRY SCHOOL



DETAIL OF STONE WEDGE

(TO BE USED DURING THE WIDENING OF NOLENSVILLE RD.)

NOTE: AFTER CONC. PVMT. & CURB HAVE BEEN REMOVED AND PRIOR TO THE END OF WORK DAY A WEDGE WILL BE CONSTRUCTED WITH STONE (ITEM 303-01) AS SHOWN ON DETAIL. WHEN THE CONTRACTOR IS READY TO WIDEN PAVEMENT AS SHOWN ON THE TYPICAL, THE WEDGE WILL BE USED TO CONSTRUCT THE 3" BASE.



TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS OR RESIDENTIAL BUILDINGS IN URBAN AREAS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TYPICAL SECTIONS

SCANNED
BRUNING 29411

Plans File No. 9-68
Dim.

GENERAL NOTES

MISCELLANEOUS

(1) THE THEORETICAL GRADE LINE SHOWN ON THE PLANS REPRESENTS THE FINISHED PAVEMENT SURFACE.

(2) SUPERELEVATION AND CROWNS ARE PLUS OR MINUS FROM THE THEORETICAL GRADE LINE. SEE STD. DWG. NO. RD-SE-1, ROADWAY CROSS-SECTIONS AND PROFILE SHEETS FOR DETAILS.

(3) THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS AND DRIVEWAYS AS DIRECTED BY THE ENGINEER.

(4) ALL PRIVATE DRIVES TO BUSINESS OR RESIDENTIAL BUILDINGS ARE TO BE PAVED TO THE RIGHT-OF-WAY LINE WITH 5' ± BASE MATERIAL, 2 1/4" ± BITUMINOUS MATERIAL. ALL DRIVES SHALL BE REPLACED IN KIND FROM THE RIGHT-OF-WAY LINE TO THE LIMIT OF CONSTRUCTION, IF THE CONSTRUCTION LIMIT IS BEYOND THE RIGHT-OF-WAY LINE. THE BITUMINOUS MATERIAL SHALL BE PLACED ON THE DRIVES AS SPECIFIED WHEN IT IS PLACED ON THE MAIN ROAD.

(5) EXISTING ROADWAYS WITHIN THE RIGHT-OF-WAY WHICH ARE TO BE ABANDONED SHALL BE SCARIFIED, REGRADED, AND SODDED. THIS WORK TO BE AS DIRECTED BY THE ENGINEER, COST TO BE INCLUDED IN ITEM NO. 803-01.

(6) NO OPEN BURNING WILL BE ALLOWED ON THIS PROJECT.

(7) NO MAJOR GEOLOGICAL PROBLEMS ARE EXPECTED ON THIS PROJECT, HOWEVER IF ANY PROBLEMS ARISE THE DIVISION OF SOILS AND GEOLOGY WILL BE NOTIFIED FOR INVESTIGATION AND REMEDIAL ACTIONS IF NEEDED.

(8) EXISTING MANHOLES, CATCH BASINS, INLET CONNECTIONS, CULVERTS TO BE DISCONTINUED SHALL BE REMOVED, SEALED, OR PLUGGED AS DIRECTED BY THE ENGINEER. COST OF THIS TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION. NO SEPARATE WILL BE ALLOWED.

(9) LOCATION OF UTILITIES PUBLIC AND/OR PRIVATE ARE APPROXIMATE ONLY THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

(10) AFTER THE GUARDRAIL LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING THE GUARDRAIL, AN INSPECTION WILL BE MADE BY STATE AND F.H.W.A. PERSONNEL FOR THE PURPOSE OF VERIFYING OR ADJUSTING THE LOCATIONS AND TYPE OF END TERMINALS TO BEST SUITE THE GRADING AND TERRAIN.

(11) SOD WILL BE PLACED ON ALL NEWLY GRADED CUT AND FILL SLOPES ON THE CROSS STREETS (WINFORD AVE., NOLENSVILLE R.D., DORTCH AVE., FOSTER AVE.,) AS WORK PROGRESSES, AS DIRECTED BY THE ENGINEER. SOD ALL EARTH SLOPES AND OTHER SLOPES WHERE SODDING IS REQUIRED TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION.

(12) CERTAIN ROCK SLOPES ON RAMP 'N-C', AND 'N-E' ARE TO BE SEEDED (CROWN VETCH MIXTURE), ON THESE SLOPES THE ROCK SHALL BE REMOVED 1'-0" BELOW THE GRADING LINE GRADING LINE AND BACKFILLED WITH 5" OF EARTHEN MATERIAL AND 3" OF TOPSOIL PRIOR TO PLACING THE SEED. PAYMENT FOR THIS WORK WILL BE MADE UNDER ITEM NOS. 203-01, 203-07 AND 801-01.02.

(13) ENDWALLS ARE SHOWN ON THE PLANS, HOWEVER THE TYPE CAN BE CHANGED BY THE ENGINEER AS NECESSARY TO IMPROVE SAFETY FEATURES.

(14) DITCH QUANTITIES, IN GENERAL, ARE BASED UPON THE PAVING OF ALL EARTHEN DITCHES HAVING GRADES OF 3% OR MORE, AND THE SODDING OF THOSE HAVING GRADES LESS THAN 3%.

(15) THE ENGINEER IN CHARGE OF PROJECT CONSTRUCTION MAY DECIDE THAT SOME DITCHES WITH GRADES 3% OR STEEPER WOULD FUNCTION WITHOUT EROSION IF SODDED OR THAT SOME DITCHES WITH GRADES FLATTER THAN 3% SHOULD BE PAVED. PAYMENT WILL BE ADJUSTED FOR THE INCREASE AND/OR DECREASE IN QUANTITIES AT THE PRICE BID.

(16) FORMED OR SAWED CONTRACTION JOINTS (1/4" WIDE AND 1" DEEP) WILL BE REQUIRED AT A MAXIMUM OF 20' INTERVALS AND ONE-HALF (1/2) INCH TRANSVERSE PREMOULDED FIBER EXPANSION JOINTS WILL BE REQUIRED AT 60' INTERVALS IN ALL CONCRETE PAVED DITCHES, COST TO BE INCLUDED IN THE PRICE BID FOR THE PAY ITEM FOR PAVED DITCHES.

(17) THE CONTRACTOR WILL BE REQUIRED TO SHAPE DITCHES TO THE SPECIFIED DESIGN, ALL COST TO BE INCLUDED IN THE PRICE BID FOR THE PAY ITEM FOR PAVED DITCHES.

(18) WHERE TRENCHING IS REQUIRED ACROSS EXISTING STREETS, THE TRENCHING LINES SHALL BE CUT TO NEAT LINES BY SAWING OR BY ANY OTHER METHOD APPROVED BY THE ENGINEER. HOWEVER, IN NO EVENT WILL THE CUTTING OF NEAT LINES FOR TRENCHING IN EXISTING PAVED STREETS BE WAIVED.

(19) WHERE EXISTING PAVEMENT IN LOCAL STREETS IS DISTURBED DUE TO TRENCHING, THE PAVEMENT WILL BE REPLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL NOT BE ALLOWED TO OPEN MORE TRENCH THAN CAN BE BACKFILLED DURING NORMAL CONSTRUCTION HOURS (6:00 A.M. AND 7:00 P.M.). COST OF PAVEMENT AND BACKFILLING TO BE INCLUDED IN THE COST OF THE PIPE.

(20) ANY TRENCHING REQUIRED ACROSS EXISTING STREETS FOR RELOCATION OF UTILITIES WILL BE BACKFILLED TO SUB-GRADE LINE WITH 100% CRUSHED STONE (SIZE NO. 67). COST OF TRENCHING AND BACKFILLING TO BE INCLUDED IN ITEM NO. 755-45.12 (8" WATER MAIN).

(21) ENTRANCE AND EXIT FROM LOCAL STREETS TO PRIVATE PROPERTY MUST BE PROVIDED AT ALL TIMES. ALL COSTS FOR MAINTENANCE AND PROTECTION OF TRAFFIC TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.

(22) THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT HE WILL NOT HAVE EXCLUSIVE OCCUPANCY WITHIN AND ADJACENT TO THE LIMITS OF THIS CONTRACT. CONTRACTS FOR GRADE AND DRAIN, BRIDGES (L & N R.R.), LANDSCAPING, NOISE WALLS, LIGHTING, SIGNING AND PAVING ARE ALL ANTICIPATED DURING THE WORK ON THIS CONTRACT. THIS CONTRACTOR SHALL NOT RESTRICT RIGHT OF ACCESS TO ANY SUBSEQUENT CONTRACTORS OR OTHERS TO WHOM THE STATE MAY GRANT THE RIGHT TO WORK WITHIN THE PROJECT AREA.

(23) THE ABATEMENT OF CONSTRUCTION NOISE IS A HIGH PRIORITY AREA ON THIS CONTRACT, MEANING THAT THE CONTRACTOR WILL BE REQUIRED TO PERFORM HIS NORMAL CONSTRUCTION OPERATIONS BETWEEN THE HOURS OF 6:00 A.M. AND 7:00 P.M. AS DIRECTED BY THE ENGINEER. THIS INCLUDES BLASTING, DRILLING, OPERATION OF HEAVY CONSTRUCTION EQUIPMENT. AS FAR AS BLASTING IS CONCERNED THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE 1975 BLASTING LAW, WHICH IS ADMINISTERED BY THE TENNESSEE DEPARTMENT OF INSURANCE AND BANKING. THIS LAW REQUIRES CERTIFICATION OF PERSONNEL IN THE FIELD AND ESTABLISHES CRITERIA RELATING TO SIZE, TIMING, AND MAGNITUDE OF THE BLAST, AND THE DISTANCE FROM ANY NEARBY BUILDINGS OR IMPROVEMENTS, SHOULD ANY DAMAGES OCCUR DUE TO BLASTING, THE CONTRACTOR WILL BE HELD RESPONSIBLE.

GRADING

* (24) THE CONTRACTOR WILL BE REQUIRED TO GRADE CERTAIN SOLID ROCK CUTS AS INDICATED ON THE CONTOURED GRADING PLAN OF NOLENSVILLE ROAD INTERCHANGE. THESE AREAS WILL BE UNDERCUT TO A DEPTH OF 12" ± BELOW CONTOURS SHOWN; THEN BACKFILLED WITH 5" OF EARTHEN MATERIAL AND 3" OF TOPSOIL PRIOR TO PLACING THE SOD OR SEEDING (CROWN VETCH). COST TO BE INCLUDED IN ITEM NOS. 203-01, 203-07, 801-01.02 AND 803-01.

(25) THE COST OF EXCAVATION FOR PIPE CULVERTS, MANHOLES, CATCHBASINS WILL BE INCLUDED IN THEIR RESPECTIVE PAY ITEMS, AND NOT BE PAID FOR DIRECTLY.

(26) THE COST OF CUTTING INLET AND OUTLET DITCHES WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 203-01.

(27) WHEN A CULVERT IS MOVED TO A NEW LOCATION OTHER THAN SHOWN ON THE PLANS THEREBY INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DEDUCTION IN PAYMENT WILL BE MADE DUE TO SUCH CHANGES.

(28) ALL EXCESS DISPOSAL SITES SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER WILL BE REQUIRED TO CONSULT WITH THE REGIONAL CONSTRUCTION ENGINEER AND THE ENVIRONMENTAL PLANNING DIVISION ADMINISTRATOR PRIOR TO APPROVING ANY EXCESS DISPOSAL SITES. A POTENTIAL EXCESS SITE IS THE PROPOSED AIRPORT EXPANSION AT METRO AIRPORT. (SEE SHEET NO. 2J, IF THE AIRPORT SITE IS USED).

(29) BEFORE THE DEPARTMENT WILL APPROVE A SITE FOR DISPOSAL OF THE EXCESS MATERIAL AT A PLACE OTHER THAN THE AIRPORT SITE, CONSIDERATION WILL BE GIVEN TO THE AESTHETICS OF THE AREA AFTER THE MATERIAL IS PLACED. THE LIKELIHOOD OF IMPAIRMENT OF DRAINAGE PATTERNS CAUSED BY PLACEMENT OF THE MATERIAL, AND THE WAY THE SITE WILL BE LEFT IN REGARD TO DEVELOPEMENT POTENTIAL, ETC. THE CONTRACTOR WILL BE REQUIRED TO GET AN APPROVED GRADING PERMIT FROM THE METROPOLITAN GOVERNMENT FOR ANY SITE IN DAVIDSON COUNTY AND THE APPROPRIATE PERMIT FROM APPROPRIATE LOCAL GOVERNMENT, IF ANY MATERIAL IS DISPOSED OF OUTSIDE OF DAVIDSON COUNTY.

(30) THE CONTRACTOR WILL NOT BE ALLOWED TO HAUL EXCAVATED MATERIAL ACROSS OR ON NOLENSVILLE ROAD AT GRADE EXCEPT THAT MATERIAL BEING TRANSPORTED AS EXCESS MATERIAL. IF NOLENSVILLE ROAD IS USED AS A ROUTE FOR THE HAULING AWAY OF EXCESS MATERIAL, THE CONTRACTOR WILL NOT BE PERMITTED TO HAUL THIS MATERIAL THROUGH THE NOLENSVILLE ROAD AND THOMPSON LANE INTERSECTION DURING THE PEAK HOURS OF 7:00 A.M. TO 9:00 A.M. AND 3:30 P.M. TO 5:30 P.M.

(31) THE CONSTRUCTION PHASING ON THIS PROJECT WILL REQUIRE THE CONTRACTOR TO CONSTRUCT THE EMBANKMENTS FOR THE WINFORD AVENUE AND NOLENSVILLE ROAD APPROACHES. THIS MEANS THAT 3000 ± C.Y. OF COMMON EXCAVATION IS TO HAVE BEEN RESERVED FROM THE GRADING PROJECT (I-440-4(33) 211) IN THE AREA FROM WINFORD AVENUE TO AND INCLUDING THE NOLENSVILLE ROAD INTERCHANGE, FOR THE PURPOSE OF CONSTRUCTING THESE EMBANKMENTS.

* (32) THE SECOND PHASE OF THIS PROJECT WILL BE THE REMOVAL OF THE NOLENSVILLE ROAD DETOUR (THIS WORK WILL START AFTER THE BRIDGE AND APPROACH WORK IS COMPLETED ON NOLENSVILLE ROAD AND TRAFFIC HAS BEEN ROUTED BACK ON NOLENSVILLE ROAD) THE EXCAVATION REQUIRED FOR THE REMOVAL IS 5,100 ± C.Y. OF COMMON EXCAVATION TO BE EXCESS MATERIAL, AND 12,310 C.Y. OF ROCK EXCAVATION TO BE EXCESS MATERIAL. SEE GENERAL NOTES AND SHEET NO. 2J FOR DETAILS ON DISPOSAL SITES. (THESE CALCULATIONS BASED ON 10% SHRINKAGE AND 10% SWELL.)

* NOTE: THE ROCK MATERIAL LOCATED UNDER THE NOLENSVILLE ROAD DETOUR WILL BE SHOT BY OTHERS ON PROJECT NO. I-440-4(33)211. WHEN IT IS TIME TO REMOVE THIS MATERIAL AND IF IT IS FOUND THAT THE ROCK WAS NOT COMPLETELY SHOT TO CONTOUR GRADE AS SPECIFIED, THE CONTRACTOR FOR THIS PROJECT WILL BE REQUIRED TO RE-SHOOT THE ROCK AS NECESSARY TO FINISH THIS PROJECT. THE COST OF THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 203-01 (ROAD AND DRAINAGE EXCAVATION UNCLASSIFIED).

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	2B

REVISED: 6/8/81; NOTE CONCERNING ROCK SHOOTING ADDED TO GENERAL GRADING NOTES.

REV. 6-30-81: NOTE CONCERNING REMOVAL OF ROCK MATERIAL AT NOLENSVILLE ROAD INTERCHANGE REVISED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

GENERAL NOTES

BRUNING 29411

TENN. STATE HIGHWAYS
Plans | File
Date | No. 308
TN-308

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	2 C

GENERAL NOTES

WATER MAIN NOTES

(33) THE CONTRACTOR WILL BE REQUIRED TO USE EXTREME CAUTION IN WORKING UNDER AND AROUND UNDERGROUND UTILITIES IN THE EVENT SPECIAL EQUIPMENT IS REQUIRED TO EXCAVATE OR TUNNEL UNDER THESE EXISTING UTILITIES, IT WILL BE FURNISHED BY THE CONTRACTOR AT NO EXTRA COST.

(34) THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT EXISTING WATER LINES ARE OWNED AND MAINTAINED BY METROPOLITAN NASHVILLE, DAVIDSON COUNTY, DEPARTMENT OF WATER AND SEWERAGE SERVICES, AND THAT ALL WORK ON THE WATER SYSTEM MUST BE PERFORMED TO MEET THE STANDARD SPECIFICATIONS AND APPROVAL OF THE ENGINEER.

(35) EXISTING MAINS TO BE ABANDONED ARE TO REMAIN IN SERVICE UNTIL TIME AS A NEW PIPE IS IN PLACE READY TO CONNECT TO THE WATER SYSTEM PRIOR TO REMOVING, OR ABANDONING OLD PIPE, UNLESS OTHERWISE ORDERED BY THE ENGINEER.

(36) POINTS WHERE ABANDONED MAINS ORIGINATE AND TERMINATE ARE USUALLY AT A TEE OR FITTING IN EXISTING MAIN OF WATER WORKS SYSTEM. THE METROPOLITAN, NASHVILLE AND DAVIDSON COUNTY, DEPARTMENT OF WATER AND SEWERAGE SERVICES WILL SPECIFY EXACT POINTS TO "CUT" AND "CAP" PIPES.

(37) WHEN LAYING WATER PIPE TO CONFORM TO THE ROAD CURVATURE THE BREAKING OF JOINTS WILL BE PERMITTED. THE CONTRACTOR IS TO USE 12 FOOT LENGTHS IN PLACE OF 16 FOOT LENGTH PIPES TO CONFORM TO THE MAXIMUM DEFLECTIONS.

(38) WHENEVER POSSIBLE, GATE VALVES ON MAINS IN SIDEWALK AREAS ARE TO BE LOCATED AT RADIUS POINTS (END OF CURVES) AND WHEN MAINS ARE IN THE STREET, VALVES ARE TO BE LOCATED IN LINE WITH STREET PROPERTY LINE OR RIGHT-OF-WAY.

(39) ALL PROPOSED WATER LINES ARE TO BE DUCTILE IRON PIPE, UNLESS OTHERWISE SPECIFIED ON PLANS.

(40) ALL ABANDONED VALVES, VALVE BOXES, FRAMES AND OTHER APPURTENANCES, EXCEPT AS NOTED ON THE PLANS, WILL BE SALVAGED BY THE METROPOLITAN NASHVILLE, DAVIDSON COUNTY, DEPARTMENT OF WATER AND SEWERAGE SERVICES. THE ENGINEER IS TO INFORM THE METROPOLITAN DEPARTMENT OF WATER AND SEWERAGE SERVICES WHEN EXISTING MAINS ARE TO BE ABANDONED. THE METROPOLITAN DEPARTMENT OF WATER AND SEWERAGE SERVICES DOES NOT INTEND TO SALVAGE ABANDONED MAINS.

(41) RELOCATION OF AND ALTERATION TO EXISTING UTILITIES, EXCEPTING WATER LINES, WILL BE DONE BY THE OWNING COMPANIES.

(42) THE CONTRACTOR SHALL GIVE ADVANCE NOTICE TO THE VARIOUS UTILITY COMPANIES BEFORE DOING ANY WORK WHICH MAY INTERFERE WITH THE OPERATION OF THEIR FACILITIES.

(43) UTILITY COMPANIES WILL BE DOING WORK ON THEIR PLANS WITHIN THE CONTRACT LIMITS BEYOND THE EXTENT INDICATED ON THE PLANS. THE CONTRACTOR SHALL COOPERATE WITH THE VARIOUS UTILITY COMPANIES CARRYING OUT WORK WHICH IS RELATED TO THE WORK OF THIS CONTRACT.

(44) GAS MAINS, METERS, POWER AND TELEPHONE POLES, CONDUITS, AND OTHER PUBLIC UTILITIES, SERVICE CONNECTIONS, ETC. ARE TO BE REMOVED OR ADJUSTED TO THE PROPOSED IMPROVEMENTS BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL COOPERATE WITH THE OWNERS IN MAKING THE NECESSARY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY SAME.

SCOPE OF WORK

THE CONSTRUCTION OF 4 (FOUR) BRIDGES.

(1) BRIDGE AND APPROACHES ON WINFORD AVENUE OVER I-440.
(2) BRIDGE AND APPROACHES ON NOLENSVILLE ROAD OVER I-440.
(3) PEDESTRIAN OVERPASS BRIDGE ON DORTCH AVENUE OVER I-440.
(4) BRIDGE AND APPROACHES ON FOSTER AVENUE OVER I-440.

THE WIDENING OF THE EXISTING NOLENSVILLE ROAD BRIDGE OVER L & N RAILROAD.

THE GRADING OF THE CROSS-STREETS (WINFORD AVENUE, NOLENSVILLE ROAD, AND FOSTER AVENUE) TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS, PLAN AND PROFILE SHEETS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF BASE AND SURFACE ON THE CROSS-STREETS (WINFORD AVENUE, NOLENSVILLE ROAD, AND FOSTER AVENUE), NOLENSVILLE ROAD INTERCHANGE RAMPS, AND PRIVATE DRIVES AS INDICATED ON TYPICAL CROSS-SECTIONS, PLAN AND PROFILE SHEETS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF STORM SEWER SYSTEM, THE ADJUSTMENT OF 2 (TWO) SANITARY SEWER MANHOLES ON WINFORD AVENUE, THE RELOCATION AND ADJUSTMENT OF WATER LINE ON NOLENSVILLE ROAD AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. METRO IS TO ADJUST WATER LINE ON THE L & N R.R. STRUCTURE.

THE INSTALLATION OF CONCRETE SLOPE PAVING UNDER BRIDGES, BRIDGE DRAINS, TEMPORARY POLLUTION ITEMS, CONCRETE CURB AND GUTTERS, AND CONCRETE CURBS, CONCRETE MEDIAN PAVEMENT, HANDICAP RAMPS, CONCRETE SIDEWALKS, CONCRETE DRIVEWAYS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE INSTALLATION OF GUARDRAIL AND ANCHOR BLOCKS, WHERE AND AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE STRIPING OF CROSS-STREETS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. USE PLASTIC MARKING.

THE SEEDING (CROWN VETCH MIXTURE), SODDING AND OTHER MISCELLANEOUS ITEMS FOR THE COMPLETION OF THIS PROJECT.

THE REMOVAL OF THE NOLENSVILLE ROAD DETOUR; THIS WORK INCLUDES THE FOLLOWING ITEMS:

(1) REMOVAL OF EXISTING SIDEWALK (BITUMINOUS MATERIAL) ON LEFT OF DETOUR. REMOVAL OF EXISTING PAVEMENT (INCLUDES PAVEMENT MARKERS) ON THE DETOUR. GRADING THE DETOUR ROAD AREA TO LINES AND GRADES AS SHOWN ON THE CONTOUR GRADING PLAN (SHEET NO. 10C) ALL OF THIS WORK TO BE PAID FOR UNDER ITEM NO. 203-01).
(2) REMOVAL OF EXISTING GUARDRAIL, THIS WORK TO BE PAID FOR UNDER ITEM NO. 705-16.02. THIS GUARDRAIL TO BECOME PROPERTY OF THE STATE MAINTENANCE DIVISION.
(3) REMOVAL OF THE TEMPORARY FENCE (STOCK FENCE) ON THE LEFT. REMOVAL OF THE SIGNING ON THE DETOUR. COST OF THIS REMOVAL TO BE IN OTHER ITEMS OF CONSTRUCTION. FENCE AND SIGNING TO BECOME PROPERTY OF THE CONTRACTOR.
(4) REMOVAL OF LIGHTING POLE FOUNDATIONS AND POWER CABLE (NASHVILLE ELECTRIC SERVICE IS TO REMOVE THE LIGHT POLES). THE FOUNDATIONS AND CABLE REMOVED ARE TO BE PAID FOR UNDER ITEM NO. 203-01, AND ARE TO BECOME PROPERTY OF THE CONTRACTOR. THE POLES ARE TO BECOME PROPERTY OF NASHVILLE ELECTRIC SERVICE.
(5) REMOVAL OF 2 (TWO) 18" C.M. PIPES UNDER THE DETOUR, COST TO BE PAID FOR UNDER ITEM NO. 202-02.01. PIPE TO BECOME PROPERTY OF THE CONTRACTOR.
(6) REMOVAL OF THE 27'-2" X 19'-1" CORRUGATED STEEL MULTI-PLATE STRUCTURE UNDER THE DETOUR, COST TO BE PAID FOR UNDER ITEM NO. 920-01.02. STRUCTURE TO BECOME PROPERTY OF THE STATE.

THE REMOVAL OF THE TEMPORARY TRAFFIC CONTROL AND MARKING DEVICES (SIGNS, TEMPORARY BARRICADES, LIGHTS, ETC.) THAT WERE INSTALLED FOR THE WINFORD AVENUE, NOLENSVILLE ROAD, AND FOSTER AVENUE DETOURS UNDER PROJECT NO. I-440-4(33)211. THE COST OF THIS WORK TO BE INCLUDED IN ITEM NO. 713-20. THESE ITEMS REMOVED ARE TO BECOME PROPERTY OF THE CONTRACTOR.

THE INSTALLATION OF A HI-DRO CELL ATTENUATION DEVICE AT RAMP 'N-B' AND NOLENSVILLE ROAD. THIS WORK TO BE DONE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE FOLLOWING LISTING ARE UTILITIES PRESENTLY INVOLVED IN THIS CONTRACT:

MR. C. H. BATES
SOUTH CENTRAL BELL
2002 RICHARD JONES ROAD
NASHVILLE, TN. 37215

MR. WESLEY HAYNES
SOUTH CENTRAL BELL
#2 VANTAGE WAY
METRO CENTER
NASHVILLE, TN. 37228

MR. PETE GRIMES
NASHVILLE GAS COMPANY
800 2ND AVENUE NORTH
NASHVILLE, TN. 37201

MR. JOE MCKENZIE
NASHVILLE ELECTRIC SERVICE
1214 CHURCH STREET
NASHVILLE, TN. 37246

MR. ANDREW B. RYE
AREA SUPERINTENDENT
TENNESSEE VALLEY AUTHORITY
P.O. BOX 100257
NASHVILLE, TN.

MR. RAY HARRINGTON
METRO WATER AND SEWER DEPT.
8TH FLOOR STAHLMAN BLDG.
211 CHURCH STREET
NASHVILLE, TN. 37201

RAILROAD ASSISTANT CHIEF ENGINEER

MR. G. T. BONNER
L & N RAILROAD COMPANY
P.O. BOX 32230
LOUISVILLE, KY. 40232

RAILROAD SUPERINTENDENTS

MR. F. E. PURSLEY
L & N RAILROAD
NASHVILLE DIVISION
1038 TALLEY AVENUE
NASHVILLE, TN. 37211

MR. E. W. BRATCHER
L & N RAILROAD
ATLANTA DIVISION
P.O. BOX 1770
ATLANTA, GA. 30301

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

GENERAL NOTES AND SCOPE-OF-WORK

BRUNING 29411

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	2D

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	TOTAL	UNIT
	109-10.01	TRAINEE	3,000	HOUR
	200-01	TEMPORARY BERM	3522	LIN. FT.
	200-02	TEMPORARY SLOPE DRAIN	235	LIN. FT.
1	200-05	SEDIMENT REMOVAL	500	CU. YDS.
1	200-06	BALED HAY OR STRAW EROSION CHECKS	881	BALE
	201-01	CLEARING AND GRUBBING	1	LUMP SUM
	201-02	MOBILIZATION	1	LUMP SUM
2	202-02.01	REMOVAL OF PIPE (18") (LT. & RT. STATION 420+00 I-440)	170	LIN. FT.
	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALKS, ETC.	4,525	SQ.YDS.
	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	27,188	CU. YDS.
	203-01.11	PRESPLITTING OF ROCK EXCAVATION	1,158	SQ. YDS.
	203-04	PLACING AND SPREADING TOPSOIL	200	CU. YDS.
4	203-06	WATER	82	M. GAL.
	203-07	FURNISHING AND SPREADING TOPSOIL	250	CU. YDS.
	204-07	BEDDING MATERIAL (PIPE) CLASS 'B'	46	CU. YDS.
	206-01	FINAL DRESSING	23	STA.
5	303-01	MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	4,379	TON
6	307-01.03	AGGREGATE (BPMB-HM) GRADING "A-S" MIXTURE	183	TON
	307-01.04	ASPHALT CEMENT (BPMB-HM) GRADING "A-S" MIXTURE	6	TON
7	307-02.01	AGGREGATE (BPMB-HM) GRADING "B" MIXTURE	294	TON
	307-02.02	ASPHALT CEMENT (BPMB-HM) GRADING "B" MIXTURE	13	TON
8	307-03.01	AGGREGATE (BPMB-HM) GRADING "C" MIXTURE	108	TON
	307-03.02	ASPHALT CEMENT (BPMB-HM) GRADING "C" MIXTURE	6	TON
9	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (P.C.)	4	TON
	402-02	AGGREGATE FOR COVER MATERIAL (P.C.)	16	TON
10	403-01	BITUMINOUS MATERIAL FOR TACK COAT (T.C.)	2	TON
28	407-06	ADJUSTMENT OF MANHOLE COVER AND FRAMES	2	EACH
11	411-01.01	MINERAL AGGREGATE (A.C.S.) GRADING "D"	581	TON
	411-01.02	ASPHALT CEMENT (A.C.S.) GRADING "D"	37	TON
12	411-02.01	MINERAL AGGREGATE (A.C.S.) GRADING "E"	165	TON
	411-02.02	ASPHALT CEMENT (A.C.S.) GRADING "E"	10	TON
13	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	5,452	SQ. YD.
	602-01.01	STRUCTURAL STEEL (PIPE ENDWALLS)	830	LBS.
	602-06.01	STRUCTURAL STEEL (CATCH BASIN)	4,365	LBS.
15	604-01.01	CLASS "A" CONCRETE (ROADWAY)	11	CU. YD.
16	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	281	LB.
17	604-03.06	BRIDGE DECK SEALANT	1,267	SQ. YD.
	607-02.02	15" CONCRETE PIPE CULVERT (CLASS III)	40	LIN. FT.
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	108	LIN. FT.
14 18	607-37.02	18" CORRUGATED METAL PIPE	184	LIN. FT.
26	610-05.04	CORRUGATED METAL PIPE DRAINS (12")	114	LIN. FT.
30	611-02.51	CAPPING EXISTING CATCH BASIN	1	EACH
	611-03.01	CLASS "A" CONCRETE (CATCH BASIN)	7	CU. YD.
19	611-03.03	BRICK MASONRY (CATCH BASIN)	8.579	M. BRICK
	611-03.04	GRAY IRON CASTINGS (CATCH BASIN)	1,455	LB.

(CONTINUED) ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	TOTAL	UNIT
	611-07.01	CLASS "A" CONCRETE (PIPE ENDWALLS)	6	CU. YDS.
	611-07.02	STEEL BAR REINFORCING (PIPE ENDWALLS)	237	LB.
	611-10.01	LATERAL ENDWALL (6")	7	EACH
1	612-02	NON-UNIFORM COURSE STONE MASONRY	10	CU. YD.
	616-12	PORTABLE BARRIER RAIL (K-38-158)	654	LIN. FT.
	701-01.01	CONCRETE SIDEWALK (4 INCHES)	15,100	SQ. FT.
	701-02	CONCRETE DRIVEWAY	48	SQ. FT.
	701-03	CONCRETE MEDIAN PAVEMENT	17	CU. YD.
	702-01	CONCRETE CURB	22	CU. YD.
	702-03	CONCRETE COMBINED CURB AND GUTTER	245	CU. YD.
1	703-01	CEMENT CONCRETE DITCH PAVING	5	CU. YD.
	705-01.11	PROTECTIVE GUARDRAIL AT BRIDGE ENDS	624	LIN. FT.
	705-01.15	METAL DEEP BEAM SINGLE GUARD RAIL (POST SPACING @ 6'-3" C.C.)	244	LIN. FT.
29	705-03.35	GUARDRAIL ATTACHED TO BARRELS	920	LIN. FT.
	705-05.11	GUARDRAIL BREAK-AWAY TERMINAL ANCHOR (TYPE 11)	15	EACH
	705-07.60	ENERGY ATTENUATION DEVICE (HI-DRO CELL)	1	EACH
20	705-16.02	REMOVAL OF EXISTING GUARDRAIL	1,000	LIN. FT.
21	709-04	REINFORCED CONCRETE SLOPE PAVEMENT	54	CU. YD.
	710-13.01	FILTER CLOTH UNDERDRAIN (WITH PIPE)	1,270	LIN. FT.
	713-15.26	WARNING LIGHTS (TYPE A)	15	EACH
	713-15.27	WARNING LIGHTS (TYPE B)	15	EACH
	713-15.28	WARNING LIGHTS (TYPE C)	15	EACH
	713-19	SIGNS (CONSTRUCTION)	100	SQ. FT.
	713-19.11	TEMPORARY BARRICADES (TYPE II)	76	LIN. FT.
25	713-19.12	TEMPORARY BARRICADES (TYPE III)	50	LIN. FT.
	713-20	TRAFFIC CONTROL DEVICES (CONSTRUCTION)	1	LUMP SUM
	713-22.02	PAINTED PAVEMENT MARKING LINE	2	LIN. MILE
22	713-22.05	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	125	SQ. YD.
	755-45.12	8" CL. 52 D.I.P. WATER MAIN	246	LIN. FT.
	755-45.22	DUCTILE IRON PIPE AND CAST IRON FITTINGS	1,000	LBS.
	801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	30	UNIT
23	801-03	WATER (SEEDING AND SODDING)	50	M. GAL.
24	801-07	SEED (SUPPLEMENTAL APPLICATION)	10	LB.
24	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	1	TON
	803-01	SODDING (NEW SOD)	4,680	SQ. YD.
27	920-01.92	REMOVAL OF MUTI-PLATE STEEL STRUCTURE	1	LUMP SUM

NON-PARTICIPATING ROADWAY QUANTITY

ITEM	DESCRIPTION	TOTAL	UNIT
705-07.99	SPARE PARTS (ENERGY ATTENUATION DEVICE, HI-DRO CELLS, ETC.)	1	LUMP SUM

THE CONTRACTOR SHALL FURNISH AND DELIVER THIS MATERIAL TO THE REGIONAL MAINTENANCE ENGINEER.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

ESTIMATED ROADWAY QUANTITIES

TENN. STATE MICROFILM
Plans Div. | File No.
BRUNING 29411

TENN STATE HIGHWAYS
PLATE 11
DR 308

FOOTNOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	2E

REVISED: 4-24-81, FOOTNOTE NO. 13 REVISED.

(1) QUANTITY MAY BE INCREASED, DECREASED, OR ELIMINATED AS DIRECTED BY THE ENGINEER.

(2) TO BECOME PROPERTY OF CONTRACTOR.

(4) INCLUDES 77 'M' GAL. FOR EMBANKMENT AND 5 'M' GAL. FOR GRANULAR BACKFILL.

(5) 430 TONS FOR WINFORD AVE., 111 TONS FOR FOSTER AVE., 944 TONS FOR RAMPS AND 124 TONS FOR PRIVTE DRIVES., 1157 TONS FOR NOLENSVILLE ROAD, 1613 TONS FOR BACKFILLING BRIDGES

(6) 174 TONS FOR WINFORD AVE., 19 TONS FOR FOSTER AVE.

(7) 243 TONS FOR WINFORD AVE., 27 TONS FOR FOSTER AVE., AND 37 TONS FOR PRIVATE DRIVES.

(8) 76 TONS FOR WINFORD AVE., 8 TONS FOR FOSTER AVE., AND 30 TONS FOR PRIVATE DRIVES.

(9) 2 TONS FOR WINFORD AVE., 0.3 TONS FOR FOSTER AVE., AND .9 TONS FOR PRIVATE DRIVES.

(10) 0.3 TONS FOR WINFORD AVE., 1 TON FOR NOLENSVILLE RD., 0.2 TON FOR FOSTER AVE. AND 0.2 TONS FOR PRIVATE DRIVES, 0.1 TON FOR BRIDGE OVERLAY (NOLENSVILLE ROAD AND L&N RAILROAD)

(11) 55 TONS FOR WINFORD AVE., 475 TONS FOR NOLENSVILLE RD., 6 TONS FOR FOSTER AVE. AND 22 TONS FOR PRIVATE DRIVES, 60 TON FOR BRIDGE OVERLAY (NOLENSVILLE ROAD AND L&N RAILROAD)

(12) 8 TONS FOR FOSTER AVE, 25 TONS FOR RAMPS, 141 TONS FOR BRIDGE OVERLAY (NOLENSVILLE ROAD & L&N RAILROAD)

(13) 3179 SQ. YDS. FOR NOLENSVILLE RD. AND 2273 SQ. YDS. FOR RAMPS. ALL CONCRETE TO BE HIGH-EARLY-STRENGTH. THE USE OF TYPE I OR TYPE III CEMENT FOR HIGH-EARLY-STRENGTH CONCRETE WILL BE OPTIONAL WITH THE CONTRACTOR. CONCRETE HAVING A CEMENT FACTOR OF 1.75 OR HIGHER WILL BE CONSIDERED HIGH-EARLY-STRENGTH CONCRETE WHEN TYPE I CEMENT IS USED.

(14) INCLUDES 68 L.IN.FT. TO BE USED FOR SIDE DRAINS.

(15) 4.3 CU. YDS. FOR BRIDGE DRAINS, 6.2 CU. YDS. FOR HI-DRO CELL ATTENUATION DEVICE

(16) TO BE USED FOR HI-DRO CELL ATTENUATION DEVICE

(17) TO BE USED ON THE NOLENSVILLE ROAD OVER L&N R.R. STRUCTURE

(18) THE PIPE ENDS AT JOINTS SHALL BE REFORMED TO AN ANNULAR CORRUGATION FOR A MINIMUM OF TWO CORRUGATIONS AND A CORRUGATED BAND 12" WIDE SHALL BE USED TO MESH WITH THE CORRUGATIONS OF THE PIPE ENDS.

(19) BRICK SHALL CONFORM TO AASHTO DESIGNATION M 91 GRADE SM, SIZE NO. 1.

(20) TO BECOME PROPERTY OF STATE MAINTENANCE DIVISION. SEE STANDARD SPECIFICATIONS FOR PROPER HANDLING AND STORAGE. INCLUDES THE COST OF THE REMOVAL OF FOUR (4) TYPE II ANCHORS.

(21) 11 CU. YDS. FOR WINFORD AVE. BRIDGE, 9 CU. YDS. FOR NOLENSVILLE RD. BRIDGE, AND 29 CU. YDS. FOR FOSTER AVE. BRIDGE., 5 CU. YDS. FOR PEDESTRAIN OVERPASS AT DORTCH AVE.

(22) TO BE USED FOR NOLENSVILLE ROAD.

(23) INCLUDES 3 'M' GAL. FOR 801-01.02 AND 47 'M' GAL. FOR SODDING.

(24) TO BE USED WITH ITEM 801-01.02.

(25) TO BE USED ON NOLENSVILLE ROAD INTERCHANGE RAMPS.

(26) INCLUDES 34' FOR WINFORD AVENUE, 62' FOR NOLENSVILLE ROAD AND 18' FOR FOSTER AVENUE.

(27) INCLUDES TOTAL COST OF STRUCTURE REMOVAL (STRUCTURE UNDER NOLENSVILLE ROAD DETOUR) AND DELIVERY TO T.D.O.T. MAINTENANCE YARD ON CENTENNIAL BLVD. FOR STORAGE. SEE SPECIAL PROVISION NO. 460

(28) EXISTING S.A. MANHOLES TO BE ADJUSTED ON WINFORD AVENUE.

(29) TO BE USED AT NOLENSVILLE ROAD RAMP TERMINALS. THIS WORK TO BE DONE AS DIRECTED BY THE ENGINEER.

(30) THIS CATCH BASIN LOCATED ON NOLENSVILLE ROAD LT. STA. 16+25 ±

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

FOOTNOTES

BRUNING 22411

TENN. STATE HIGHWAYS
Plans Div. 308

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	2F

REVISED: 4/29/81; REVISED QUANTITES ON BRIDGE NO. 3 , ITEM NUMBERS 604-03.02 AND 604-02.03

REV. 5-11-81: QUANTITY REVISED ON BRIDGE NO. 3, ITEM NO. 604-02.03. QUANTITIES REVISED ON BRIDGE NO. 4, ITEM NO'S. 204-02.01, 204-04.01, 604-02.03, AND 604-03.02. QUANTITIES REVISED ON BRIDGE NO. 5 ITEM NO'S. 604-02.03, 604-03.01, 604-03.02, 606-22.03, 606-32.03, 606-42.03, 616-08, AND 616-08.02. QUANTITY TOTALS ADJUSTED ACCORDINGLY.

REV. 6-4-81: REVISED QUANTITIES ON BRIDGE NO. 3 ITEM NOS. 604-03.01, AND 604-03.02. TOTALS ADJUSTED ACCORDINGLY.

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	BRIDGE NO. 1 STA. 406+74.88 CONTINUOUS CAST-IN-PLACE CONCRETE BOX GIRDER WINFORD AVE. OVER I-440 1- SPAN @ 120'-6" 1- SPAN @ 112'-8" LENGTH 233'-2" 28'-0" ROADWAY W/ 5'-0" SIDEWALK AND PEDESTRIAN RAIL SKEW 76° 22' 07" LAYOUT DWG. NO. M-93-54 QUANTITY	BRIDGE NO. 2 STA. 8+48.05 WIDENING OF LEN R.R. TUNNEL UNDER NOLENSVILLE RD. WITH PRE-CAST - PRESTRESSED BOX BEAMS 3 - SPANS (RT.) 1 @ 45'-9 1/2" 1 @ 47'-8 1/2" 1 @ 73'-6" 2 - SPANS (LT.) 1 @ 63'-6" 1 @ 70'-1 1/2" 76'-0" ROADWAY W/ 5'-0" SIDEWALK AND PEDESTRIAN RAIL. SKEW 38°56'41" LAYOUT DWG. NO. M-93-74 QUANTITY	BRIDGE NO. 3 STA. 421+56.68 CONTINUOUS CAST-IN PLACE CONCRETE BOX GIRDER NOLENSVILLE RD. OVER I-440 1 SPAN @ 103'-0" 1 SPAN @ 103'-0" LENGTH 206'-0" 76'-0" ROADWAY W/ 5'-0" SIDEWALK AND PEDESTRIAN RAIL. SKEW 89° 00' 10" LAYOUT DWG. NO. M-93-90 QUANTITY	BRIDGE NO. 4 STA. 437+11.74 CONTINUOUS CAST-IN-PLACE CONCRETE BOX GIRDER PEDESTRIAN OVER-PASS OVER I-440 1- SPAN @ 96'-0" 1- SPAN @ 112'-0" LENGTH 208'-0" 8'-0" CLEAR TRAVEL WAY W/ PEDESTRIAN RAILS ON RAMPS SKEW 78° 58' 46" LAYOUT DWG. NO. M-93-103 QUANTITY	BRIDGE NO. 5 STA. 447+66.48 CONTINUOUS CAST-IN-PLACE CONCRETE BOX GIRDER OVER FOSTER AVE. 1- SPAN @ 110'-0" 1- SPAN @ 94'-0" LENGTH 204'-0" 44'-0" ROADWAY W/ 5'-0" SIDEWALK AND PEDESTRIAN RAIL ON LT. SKEW 81° 44' 50" LAYOUT DWG. NO. M-93-116 QUANTITY	TOTAL QUANTITIES	UNIT
204-02.01	DRY EXCAVATION (BRIDGES)	480.1	106.0	181.0	564	839.6	2,170.7	C.Y.
204-04.01	ROCK EXCAVATION (BRIDGES)	254.9	337.5	183.7	213	433.6	1,422.7	C.Y.
204-05.	ROCK DRILLING (BRIDGES)	66.0	18	36.0	30	54	204	L.F.
604-01.04	1 1/2" Ø STEEL PIPE HANDRAIL				436		436	L.F.
604-01.07	CLASS "A" CONCRETE (FOUNDATION LEVELING)	30				20	50	C.Y.
604-02.03	EPOXY COATED REINFORCING STEEL	196,201.0	7,604	347,049	77,306	203,054	831,214	LBS.
604-03.01	CLASS "A" CONCRETE (BRIDGES)	1010.8	330.0	1,764.3	476.4	1,132.5	4714	C.Y.
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	202,984.0	51,470.0	353,268	65,898	188,083	861,703	LBS.
604-03.03	LINSEED OIL TREATMENT	1,191	144	2,465	522	1,453	5,775	S.Y.
604-25.03	TEXTURED COATED FINISHING (EXISTING STRUCTURES)		535.0				535	S.Y.
604-25.04	TEXTURED COATED FINISHING (NEW STRUCTURES)		500				500	S.Y.
606-22.03	STEEL PILES (10") (DRIVING)	55	44			117	216	L.F.
606-32.03	STEEL PILES (10") (FURNISH DOMESTIC)	55	44			117	216	L.F.
OPTIONAL 606-42.03	STEEL PILES (10") (FURNISH FOREIGN)	55	44			117	216	L.F.
615-02.10	PRESTRESSED CONCRETE BOX BEAM (27"X48")		92.4				92.4	L.F.
615-02.12	PRESTRESSED CONCRETE BOX BEAM (42" X 48")		132.9				132.9	L.F.
615-02.18	PRESTRESSED CONCRETE BOX BEAM (36" X 48")		72.1				72.1	L.F.
616-08	CONCRETE PARAPET (M-28-1)					249.4	249.4	L.F.
616-08.02	CONCRETE PARAPET WITH PEDESTRIAN RAIL (K-38-16)	544	301.0	452		249.4	1,546.4	L.F.
707-06.03	CHAIN-LINK PEDESTRIAN BRIDGE CAGE (BLACK)				4,712		4,712	S.F.
710-10	6" Ø PERFORATED C.M. PIPE (18 GA.) WITH POROUS BACKFILL	105	48	135.0		180	528	L.F.
710-11	6" C.M. PIPE UNDERDRAINS (18 GA.)	45	15	50.0		30	140	L.F.
714-01.01	STRUCTURE LIGHTING BRIDGE NO. 1	1					1	L.S.
714-01.02	STRUCTURE LIGHTING BRIDGE NO. 2		1				1	L.S.
714-01.03	STRUCTURE LIGHTING BRIDGE NO. 3			1			1	L.S.
714-01.04	STRUCTURE LIGHTING BRIDGE NO. 5					1	1	L.S.
908-21.02	BEARINGS M-93-62	5					5	EACH
908-21.03	BEARINGS M-93-98			9			9	EACH
908-21.04	BEARINGS M-93-109				1		1	EACH
908-21.05	BEARINGS M-93-126					5	5	EACH
920-01.11	ROADWAY EXPANSION DEVICE	41.2		88	9	52	190.2	L.F.

FOOTNOTES :

BRIDGE NO. 1 .... SEE SHEET NO. 16, DWG. NO. M-93-55.
BRIDGE NO. 2 .... SEE SHEET NO. 36, DWG. NO. M-93-75.
BRIDGE NO. 3 .... SEE SHEET NO. 52, DWG. NO. M-93-91.
BRIDGE NO. 4 .... SEE SHEET NO. 65, DWG. NO. M-93-104
BRIDGE NO. 5 .... SEE SHEET NO. 78, DWG. NO. M-93-117.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

BRIDGE QUANTITIES

SCANNED FEB 15 BY TRC
29411 BRUNING

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	26

ESTIMATED STORM SEWER DRAINAGE QUANTITIES

	CODE NO.	STATION	LOC.	TYPE	DRAWING NUMBER	DEPTH	OUTLET FLOW ELEV.	CATCH BASINS				ENDWALLS										
								611-03.01 CLASS "A" CONC. (C.Y.)	611-03.03 BRICK MASONRY "M" BRICK	611-03.04 GRAY IRON CASTINGS (LB.)	602-06.01 STRUCT. STEEL (LB.)	611-07.01 CLASS "A" CONC. (C.Y.)	611-07.02 STEEL BAR REINF. (LB.)	602-01.01 STRUCT. STEEL (LB.)								
(2)	1	3+91 WINFORD AVE.	RT.	#12 C.B.	D-CB-12	3.00'	575.85	0.68	0.530	155	485											
(2)	2	3+98 WINFORD AVE.	LT.	#12 C.B.	D-CB-12	3.00'	575.25	0.68	0.530	155	485											
	3	10+80 NOLENSVILLE RD.	LT.	#12 C.B.	D-CB-12	3.00'	584.14	0.68	0.517	155	485											
	4	1+90 RAMP 'NC' NOLEN. RD.	RT.	SAFE END	D-PE-6U	—	582.00					2.281	118.1	415								
	5	12+00 NOLENSVILLE RD.	RT.	#12 C.B.	D-CB-12	18.78'	563.20	0.74	3.814	155	485											
	6	13+00 NOLENSVILLE RD.	RT.	STR. END	D-PE-4	—	540.00					1.04	—	—								
	7	15+85 NOLENSVILLE RD.	LT.	#12 C.B.	D-CB-12	3.50'	561.50	0.73	0.618	155	485											
(1)	8	17+27 NOLENSVILLE RD.	LT.	EXIST.	—	—	557.70															
	9	17+75 NOLENSVILLE RD.	LT.	#12 C.B.	D-CB-12	5.34'	551.70	0.74	0.975	155	485											
	10	17+75 NOLENSVILLE RD.	RT.	#12 C.B.	D-CB-12	3.00'	553.95	0.68	0.517	155	485											
	11	17+75 NOLENSVILLE RD.	RT.	SAFE END	D-PE-6U	—	552.00					2.281	118.1	415								
(2)	12	15+18 NOLENSVILLE RD.	RT.	#12 C.B.	D-CB-12	3.00'	564.87	0.68	0.530	155	485											
(3) (2)	13	18+86 FOSTER AVE.	LT.	#12-32 CB	D-CB-12-32	3.00'	532.46	0.80	0.548	215	485											
		TOTALS						6.41	8.579	1455	4365	5.602	236.2	830								

(1) CAP EXISTING CATCH BASIN.

(2) THESE CATCH BASINS SERVE AS BRIDGE DRAINS FOR BRIDGES AT WINFORD AVE., NOLENSVILLE ROAD AND FOSTER AVENUE. FOR DETAILS OF PIPE AND END TREATMENT SEE STD. DWG. NO. D-CB-9.

(3) BICYCLE FRAME AND GRATE TO BE MODIFIED TO FIT THIS CATCH BASIN.

ESTIMATED STORM SEWER PIPE QUANTITIES

FROM CODE	FROM ELEV.	TO CODE	TO ELEV.	% GRADE	PIPE SIZE AND LENGTH :5"	18"	18" CM	204-07 BED. MATL. CL. "B" (C.Y.)	REMARKS
3	584.14	4	582.00	2.816		76'		16.1	
5	563.20	6	540.00	20.000			116'	21.2	
7	561.50	8	557.90	9.000	40'			7.5	
10	553.95	11	552.00	6.094		32'		1.1	
	TOTALS				40'	108'	116'	45.9	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TABULATED QUANTITIES

BRUNING 29411

TENN. STATE HIGHWAY DEPT.
Plans Div. | File No.

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGES	81	I-440-4(44)212	2H

RAMP AND SIDE DRAINS

STATION	LOCATION	CL. "A" CONC. 611-07.01 C.Y.	REINF. STL. 611-07.02 LB.	STRUCT. STL. 602-01.01 (E.W.)	DWG. NO.	SIZE AND LENGTH 18"	18" C.M.	24"	24" C.M.	30"	30" C.M.	36"	36" C.M.	42"	42" C.M.	60"	60" C.M.	REMARKS
4+79	WINFORD AVE. RT.																	BUS. ENT., NO SIDE DRAIN REQ'D.
5+37	WINFORD AVE. LT.	0.34					68'											DRIVE TO BERRY SCHOOL, 'X' E.W.'S. REQ'D.
5+38	WINFORD AVE. LT.																	PVT. DRIVE, NO SIDE DRAIN REQ'D
TOTALS		0.34					68'											

ESTIMATED GRADING QUANTITIES

STATION FROM	STATION TO	COMMON EXC. (UNCL.) (CU. YD.)	SOLID ROCK EXC. (CU. YD.)			CHANNEL (EXC.) (CU. YD.)
		7,881	19,307			—
TOTALS		7,881	19,307			

APRON SPILLWAY AT BRIDGE ENDS D-CB-9

LOCATION	SIDE	APPROX. STATION	WIDTH OF SPILLWAY OPENING	12" C.M. PIPE LIN. FT.	CL. "A" CONC. C.Y. *	REMARKS
FOSTER AVE	RT.	18+72	15	6'	4.3	
TOTALS				6'	4.3'	

*TO BE PAID FOR UNDER ITEM 604-01.011

PROPOSED GUARDRAIL (S-GR-1, S-GR-2, S-GR-3, S-GR-4, S-GR-5, S-GR-6, S-GR-7E, S-GR-9)

	LOCATION	SHEET NO.	SIDE	STATIONS FROM	STATIONS TO	TERMINAL ANCHOR 705-05.11 (TYPE 11)			TYPE AND LENGTH 705-01.11	705-01.14	705-01.15	
	WINFORD AVE.		LT.	0+34	1+11	1			38'		13'	
	WINFORD AVE.		RT.	0+34	1+01	1			38'		3'	
	WINFORD AVE.		RT.	3+80	4+57	1			38'		13'	
	WINFORD AVE.		LT.	3+89	4+66	1			38'		13'	
	NOLENSVILLE ROAD.		LT.	6+32	7+09	1			38'		13'	
(1)	NOLENSVILLE ROAD.		RT.	7+05	7+70				38'		26'	
	NOLENSVILLE ROAD.		LT.	8+34	17+95 RAMP "N-D"	1			38'		13'	
	NOLENSVILLE ROAD.		RT.	9+48	10+25	1			38'		13'	
	NOLENSVILLE ROAD.		LT.	12+00	12+77	1			38'		13'	
	NOLENSVILLE ROAD.		RT.	12+00	12+77	1			38'		13'	
	NOLENSVILLE ROAD.		LT.	14+95	15+72	1			38'		13'	
	NOLENSVILLE ROAD.		RT.	14+95	15+72	1			38'		13'	
	FOSTER AVE.		LT.	15+48	16+25	1			38'		13'	
	FOSTER AVE.		RT.	15+55	16+32	1			38'		13'	
	FOSTER AVE.		LT.	18+64	19+34	1			38'		6'	
	FOSTER AVE.		RT.	18+71	19+41	1			38'		6'	
(1)	RAMP "N-B" (NOLENSVILLE ROAD)		LT.	2+53	3+00						47'	
	TOTALS					15			624'		244'	

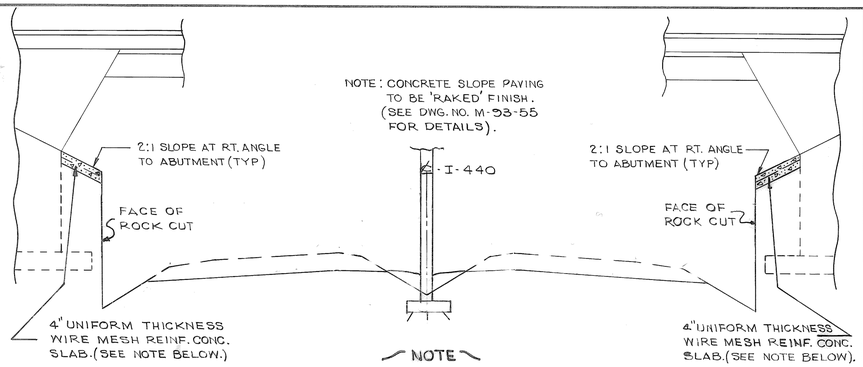
(1) BEGINNING OF GUARDRAIL TO BE ANCHORED TO THE HI-DRO CELL ATTENUATION DEVICE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TABULATED QUANTITIES

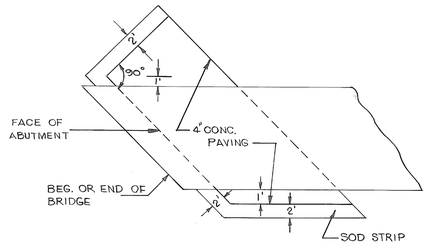
BRUNING 29411

TENNESSEE STATE HIGHWAY DEPARTMENT
Plans
Print
File No. 27

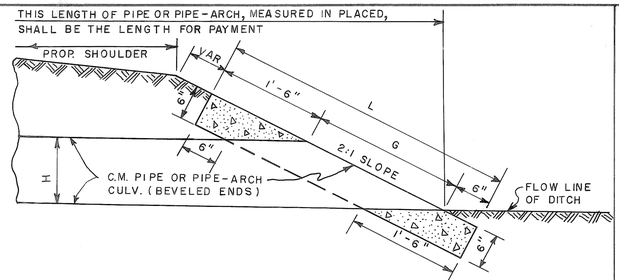


NOTE

PAVE SLOPES AND EXPOSED EARTH UNDER BRIDGES WITH 4" THICK CEMENT CONCRETE SLAB REINFORCED WITH NO. 4 GAGE WIRE FABRIC @ 6" CENTER TO CENTER AND 58 LBS. PER 100 S.F. THE SLAB SHALL EXTEND THE WIDTH OF THE STRUCTURE. THE WIRE FABRIC REINFORCEMENT SHALL BE PLACED ONE-HALF THE DEPTH OF THE SLAB AND EXTEND TO WITHIN 3" OF ITS EDGE WITH A 12" OVERLAP REQUIRED ON ALL SHEETS. THE COST OF THE WIRE FABRIC REINFORCEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 709-04, REINFORCED CONCRETE SLOPE PAVEMENT. ONE-HALF INCH PRE-MOULDED EXPANSION JOINTS WITHOUT LOAD TRANSFERS SHALL BE FORMED ABOUT ALL STRUCTURES AND FEATURES PROJECTING THRU, IN OR AGAINST THE SLAB. THE SLAB SHALL BE GROOVED PARALLEL WITH AND AT RIGHT ANGLES TO THE UNDER ROADWAY CENTER LINE AT 6' CENTER TO CENTER. DEPTH OF GROOVE TO BE NOT LESS THAN 1". (FOR SKEWED BRIDGES, SEE MODIFICATION THIS SHEET).



SKETCH SHOWING DETAILS OF SLOPE PAVING (CONC.) UNDER SKEWED BRIDGES



SECTION ALONG ℄ OF PIPE OR PIPE-ARCH

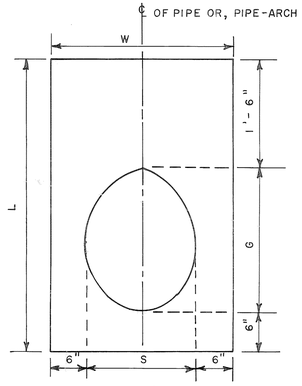
TABLE OF DIMENSIONS & ESTIMATED QUANTITIES						
SIZE OF PIPE	D I M E N S I O N S					CONCRETE C.Y.
	S	H	W	L	G	
12"	1'-0"	1'-0"	2'-0"	4'-2 7/8"	2'-2 7/8"	0.12
15"	1'-3"	1'-3"	2'-3"	4'-9 1/2"	2'-9 1/2"	0.15
18"	1'-6"	1'-6"	2'-6"	5'-4 1/4"	3'-4 1/4"	0.17
24"	2'-0"	2'-0"	3'-0"	6'-5 5/8"	4'-5 5/8"	0.23
18"X11"	1'-6"	0'-11"	2'-6"	4'-5 5/8"	2'-5 5/8"	0.14
22"X13"	1'-10"	1'-1"	2'-10"	4'-5"	2'-5"	0.17

NOTE: QUANTITIES IN ABOVE TABLE ARE FOR ONE (1) ENDWALL ONLY.

~NOTES~

BEVELED C.M. PIPE WITH "X" TYPE ENDWALLS SHALL BE USED UNDER PRIVATE DRIVES AND CERTAIN FRONTAGE ROADS.

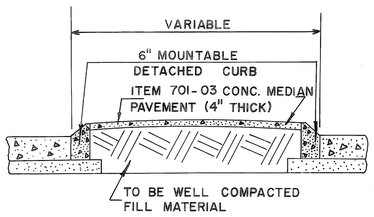
COST OF BEVELING C.M. PIPES TO A 2:1 SLOPE SHALL BE INCLUDED IN THE UNIT PRICE BID PER LIN. FT. OF PIPE OR PIPE-ARCH.



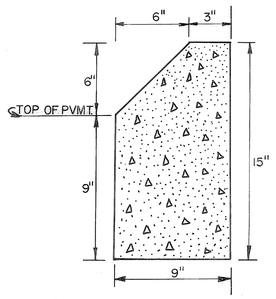
PLAN

(PERPENDICULAR TO 2:1 SLOPE)

TYPE "X" CONC. ENDWALL & BEVELING DETAIL FOR C.M. PIPE OR PIPE-ARCH

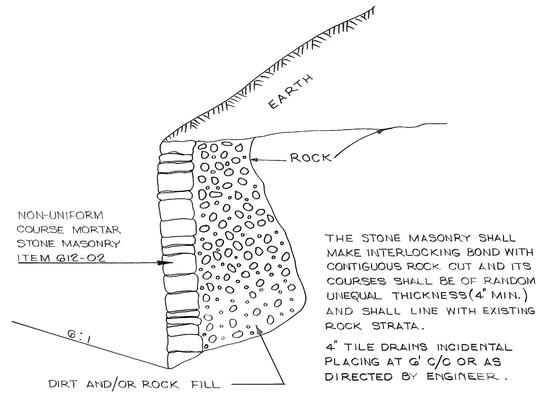


SPECIAL ISLAND DETAILS



6" MOUNTABLE DETACHED CONCRETE CURB

FOR JOINT DETAILS SEE DWG. RP-C-15



MORTAR STONE MASONRY
ITEM 612-02

DETAIL OF NON-UNIFORM STONE MASONRY

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGES	81	I-440-4(44)212	21

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

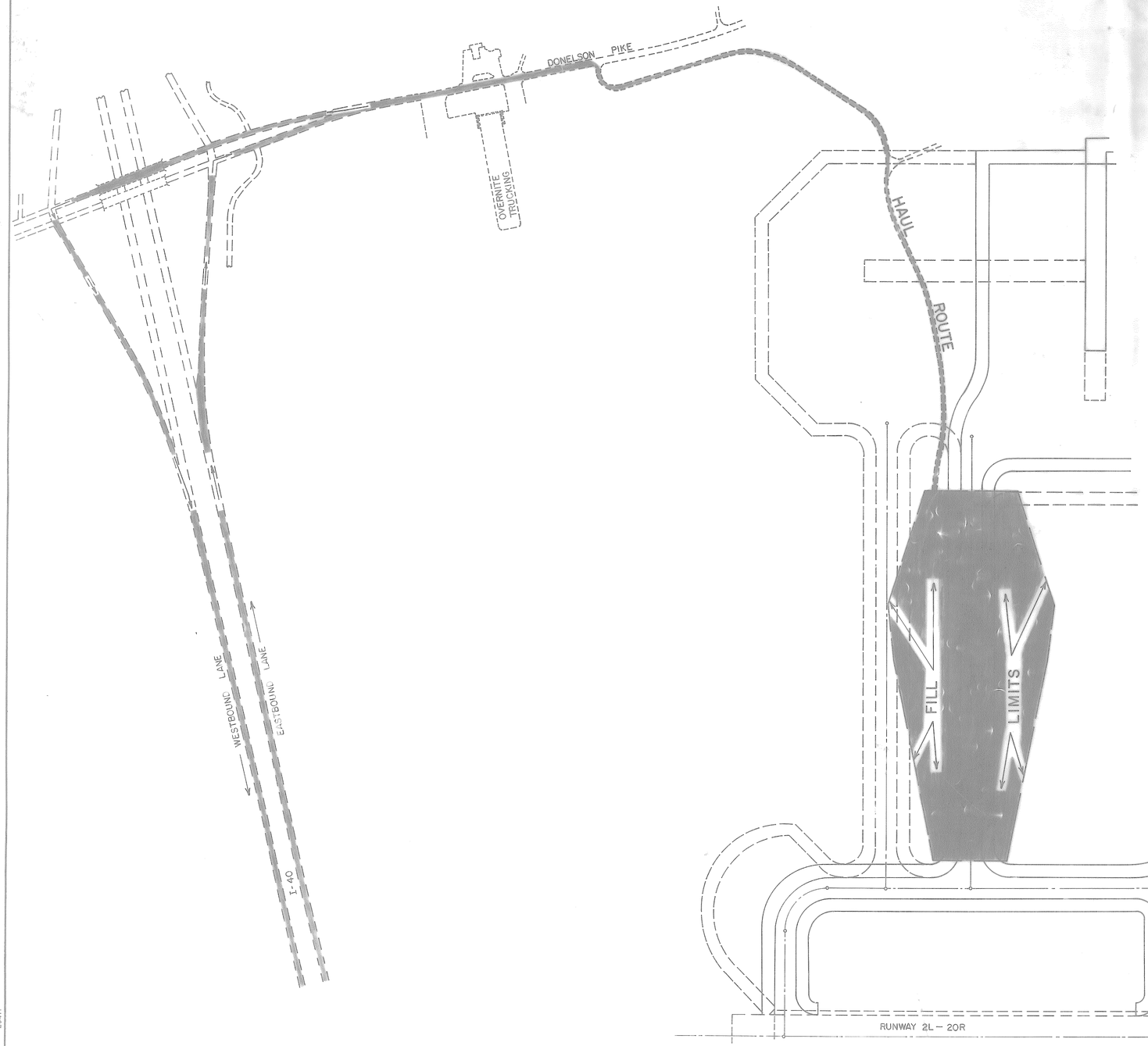
DETAILS

BRUNING 29411

TENN. STATE HIGHWAYS
Plans Divn. | Fils No. | W-2

SCANNED

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGES	1981	I-440-4(44)212	2J



NOTES

1. THE CONTRACTOR WILL BE PERMITTED TO PLACE EXCESS MATERIAL ON A SITE AT METROPALITAN NASHVILLE AIRPORT. THE LOCATION MAP INDICATES THE SITE FOR THE PLACEMENT OF THE EXCESS MATERIAL. THE CONTRACTOR WILL BE REQUIRED TO ADHERE TO THE CONDITIONS LISTED BELOW. FOR ENTRY TO INSPECT THE SITE, PLEASE CONTACT THE DIRECTOR OF PLANNING AND ENGINEERING, RICHARD MORGAN, 367-3003.

2. THE CONTRACTOR WILL BE PERMITTED ACCESS TO THE SITE FROM DONELSON PIKE AND ALONG THE ACCESS ROAD SHOWN ON THE MAP. THE CONTRACTOR WILL NOT BE PERMITTED TO CROSS ANY RUNWAY OR TAXIWAY ON THE AIRPORT PROPERTY. THE CONTRACTOR WILL NOT BE PERMITTED TO ENTER ANY AIRCRAFT OPERATIONS AREA. AIRCRAFT OPERATIONS AREA IS DEFINED AS ANY AREA WITHIN 500 FEET OF A RUNWAY, TAXIWAY, OR AIRCRAFT PARKING AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PERSONNEL OR EQUIPMENT FROM PROCEEDING INTO THESE IDENTIFIED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ACTIONS OF HIS EMPLOYEES OR SUB-CONTRACTORS WHILE THEY ARE ON AIRPORT PROPERTY.

3. AT THE ENTRANCE TO THE AIRPORT, FROM DONELSON PIKE, THE CONTRACTOR SHALL MAN THE GATE WICH SHALL BE LOCKED AT ALL TIMES WHILE WORK IS NOT IN PROGRESS. WHENEVER THE GATE IS OPEN, THE CONTRACTOR SHALL FURNISH A GUARD WHO WILL LIMIT ACCESS TO AUTHORIZED PERSONNEL ONLY. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL AIRPORT SAFETY AND SECURITY REGULATIONS.

4. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURITY OF HIS EQUIPMENT AND NO PROTECTION OF VANDALISM OR THEFT WILL BE PROVIDED BY THE METROPALITAN NASHVILLE AIRPORT AUTHORITY.

5. THE CONTRACTOR MAY BE REQUIRED TO WORK WITH ANY OTHER CONTRACTOR WORKING ON THE AIRPORT DURING THE TIME FILL MATERIAL IS BEING PLACED.

6. AN EXISTING ROAD EXISTS TO THE SITE FOR DISPOSAL OF THE MATERIAL. IF THE EXISTING ROAD WICH THE CONTRACTOR WILL TRAVERSE IS DAMAGED BY HIS OPERATIONS, IT IS TO BE RESTORED TO THE ORIGINAL CONDITION AFTER THE COMPLETION OF THE WORK. THE ACCESS ROAD SHALL BE MAINTAINED TO PREVENT EXCESSIVE DUST AND EROSION. AT CERTAIN LOCATIONS ON THE ACCESS ROAD, IT MAY BE REQUIRED TO INSTALL TEMPORARY CULVERTS. THESE CULVERTS SHALL BE OF ADEQUATE SIZE TO HANDLE ANTICIPATED FLOW.

7. PLACE FILL WITHIN BOUNDARIES OF THE AREA SHOWN ON THE LOCATION MAP.

8. MATERIAL MUST BE SUITABLE FOR CONSTRUCTING A FILL TO CARRY HEAVY AIRCRAFT LOADS. THE MATERIAL SHOULD CONTAIN A MINIMUM OF 75% CRUSHED ROCK WITH NO ROCK GREATER THAN A DIMENSION (LENGTH, WIDTH, OR DEPTH) GREATER THAN 3 FEET. THE FILL MATERIAL SHOULD CONTAIN ENOUGH SMALL PARTICLES TO FILL VOIDS TO BE COMPACTED TO FORM A DENSE MASS. THE FILL SHALL NOT CONTAIN ANY ORGANIC MATTER (TOP SOIL, VEGETATION, ECT.) OR NORMAL CONSTRUCTION DEBRIS.

9. FILL WILL BE PLACED OVER DRAINAGE STRUCTURE. CARE MUST BE TAKEN TO PREVENT DAMAGE TO DRAINAGE STRUCTURE.

10. THE FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS, DISTRIBUTED AND COMPACTED IN ACCORDANCE WITH STANDARD TDOT SPECIFICATIONS FOR CONSTRUCTION OF A DEEP FILL.

11. ALL FILL SLOPES SHOULD BE CONSTRUCTED AT 3:1.

12. THE ENGINEER SHALL HAVE THE RIGHT TO CHANGE THE LOCATION ON AIRPORT PROPERTY FOR PLACEMENT OF FILL; HOWEVER, ANY NEW LOCATION WILL NOT REQUIRE MORE EFFORT OF THE CONTRACTOR THAN THE LOCATION SHOWN ON THE LOCATION MAP.

* (DIRECTOR OF PLANNING AND ENGINEER, RICHARD MORGAN, 3673003.)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

EXCESS DISPOSAL SITE ⓐ METRO AIRPORT

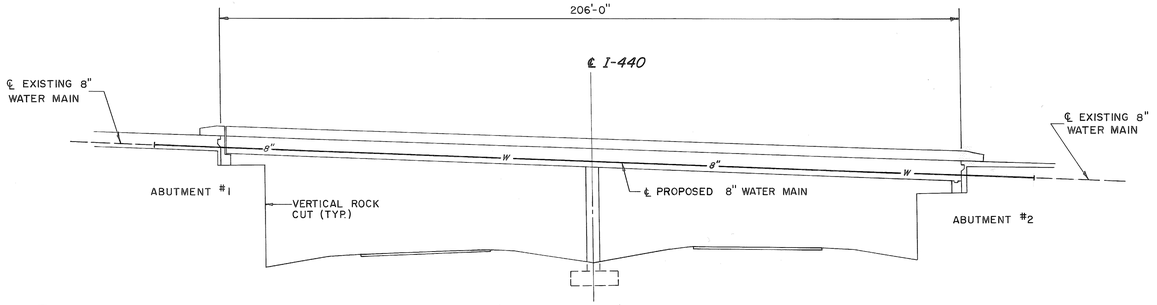
BRUNING 29411

TENN. STATE HIGHWAYS
Dist. 19 | File
Divn. | No.

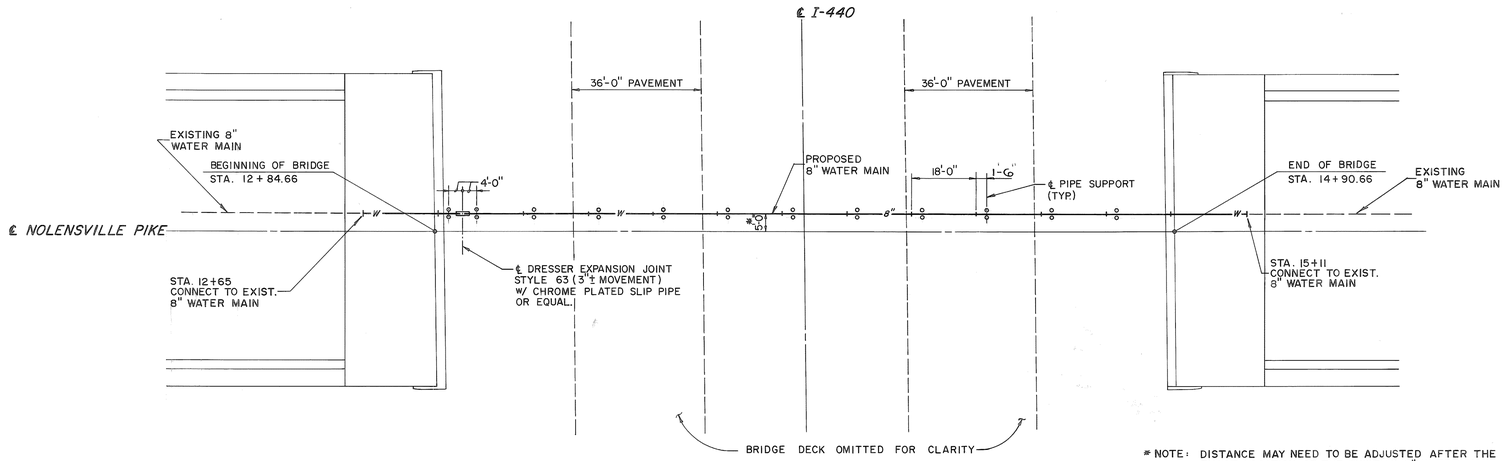
SCANNED
SCANNED FEB 16 2002 BY TRC

			SHEET NO.
BRIDGE	198	I-440-4(44)212	2L

REV. 6-22-81: DISTANCE FROM PIPE JOINTS TO ROLLERS REVISED; ON "BRIDGE PLAN" AND "PIPE SUPPORT SUPPORT SPACING DETAIL".

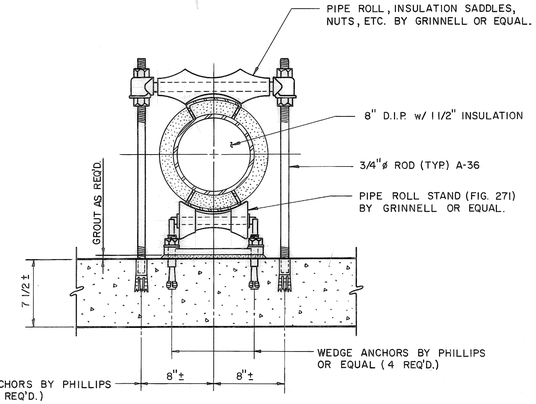


BRIDGE ELEVATION
(LOOKING WEST)
SCALE : 1"= 20'

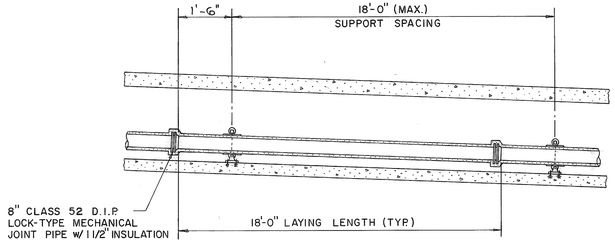


BRIDGE PLAN
SCALE : 1"= 20'

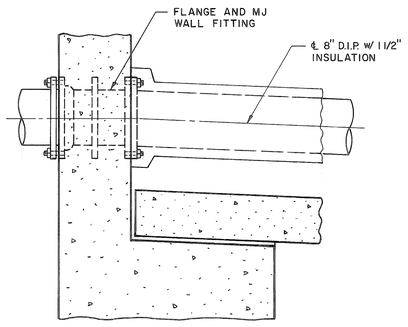
* NOTE: DISTANCE MAY NEED TO BE ADJUSTED AFTER THE EXACT LOCATION OF THE EXISTING 8" WATER MAIN IS DETERMINED DURING CONSTRUCTION.



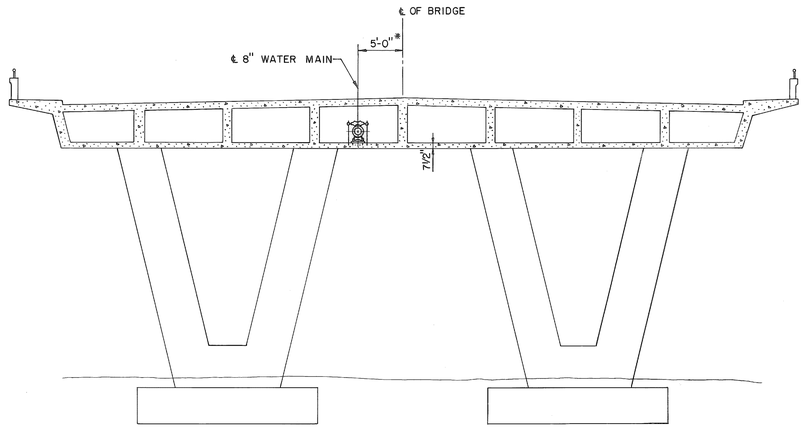
TYPICAL PIPE SUPPORT DETAIL
SCALE : 1 1/2"= 1'-0"



PIPE SUPPORT SPACING DETAIL
SCALE : 1/4"= 1'-0"



TYPICAL DETAIL AT ABUTMENT
SCALE : 1"= 1'-0"



TYPICAL CROSS-SECTION
(LOOKING NORTH)
SCALE : 1/8"= 1'-0"

NOTES: ALL WORK NECESSARY TO INSTALL THE 8" WATER MAIN ACROSS THE NOLENSVILLE ROAD BRIDGE, INCLUDING EXPANSION JOINT, WALL FITTINGS, INSULATION, PIPE SUPPORTS AND ALL APPURTENANCES, SHALL BE MERGED INTO THE UNIT PRICE PER LINEAL FOOT FOR 8" D.I.P. WATER MAIN.

PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LAYOUT OF THE PIPE INDICATING JOINT LOCATIONS, EXPANSION JOINT DETAILS, WALL FITTINGS, ETC., FOR HIS APPROVAL.

NO.	DATE	DESCRIPTION	APPROVED
		REVISIONS	

DESIGNED J.S./R.M.
DRAWN R.W.H.
CHECKED
DATE

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS

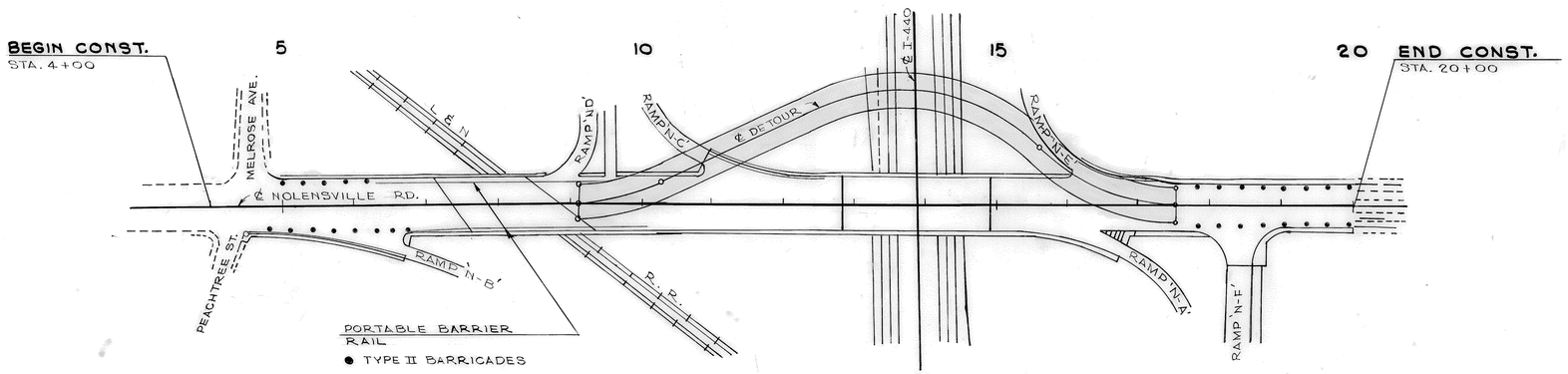
NOLENSVILLE ROAD BRIDGE PROPOSED 8" WATER MAIN

SCALE
AS NOTED

SHEET
OF SHEETS
PROJECT NO.

TENN. STATE HIGHWAYS
Plans | File
Divn. | No.

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	2M



NOTES

1. SEE SHEET NOS. 2N AND 2Ø FOR THE TRAFFIC CONTRO SIGNINS THAT WAS INSTALLED UNDER PROJ. NO. I-440-4(33)211.
2. IT IS NOTED THAT THE SIGNS FOR TRAFFIC CONTROL ON WINFORD AVENUE, AND FOSTER AVENUE WERE INSTALLED UNDER PROJ. NO. I-440-4(33)211.
3. THE CONTRACTOR IS TO REFER TO SHEET NO. 2C (SCOPE-OF-WORK) FOR CONSTRUCTION PHASING FOR THIS PROJECT, AND SHEET NO. 2P FOR "PRIORITY OF CONSTRUCTION" FOR THE GRADING PROJ. I-440-4(33)211.
4. THE SIGNING FOR DETOURING AND MAINTAINING TRAFFIC IS THE MINIMUM AMOUNT THAT WILL BE REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SIGNS AS DEEMED NECESSARY BY THE ENGINEER IN ACCORDANCE WITH PART VI OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL PLAN

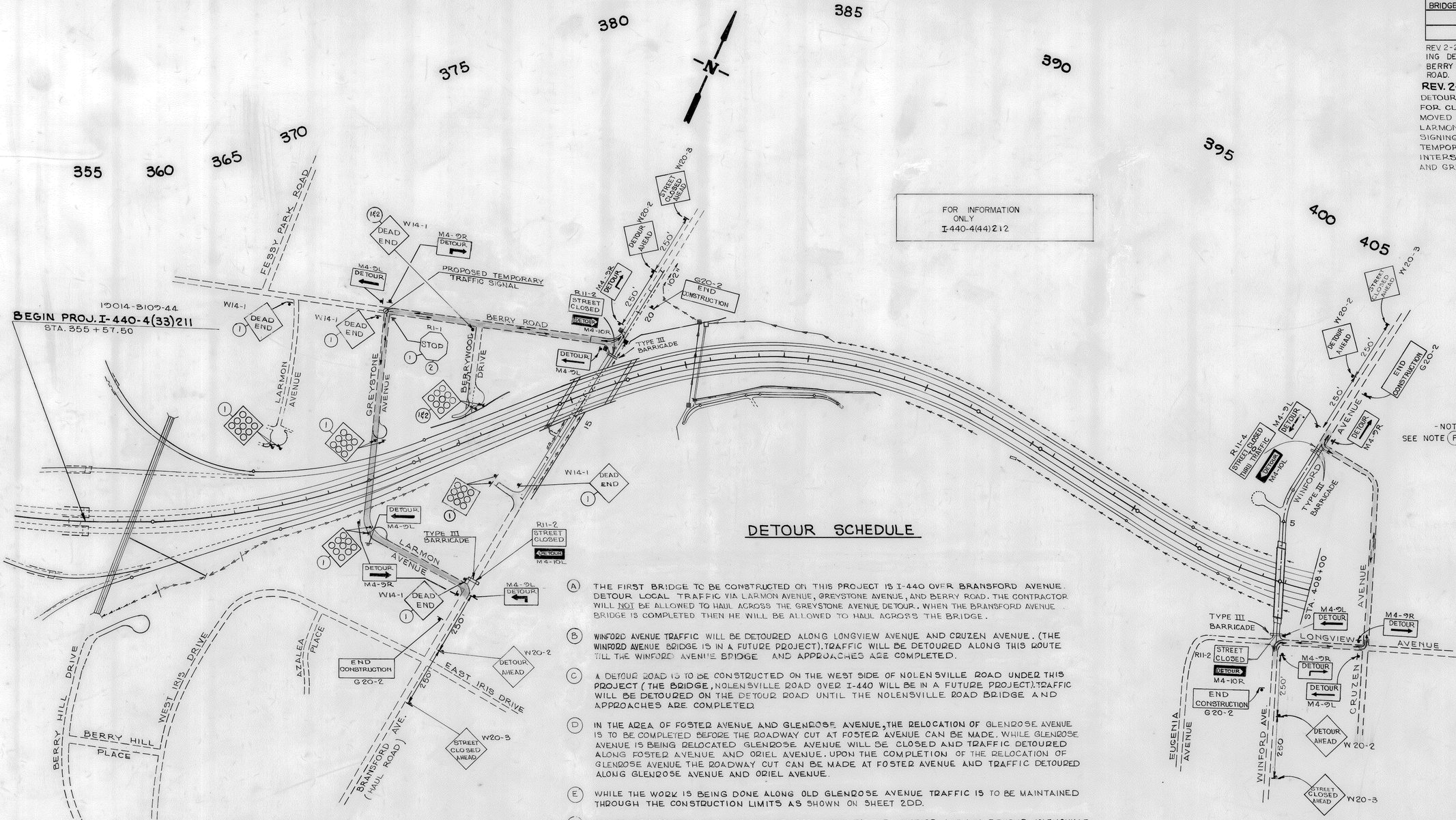
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SCANNED Feb 2002 BY TRC
BRUNING 29411

TENN. STATE HIGHWAY DEPT.
Plans | File No. 1N-
Dist.
SCANNED
SCANNED Feb 15 2002 BY TRC

TYPE	YEAR	PROJECT NO.	SHT. NO.
CONST.	1981	I-440-4(33)211	2CC
BRIDGES	1981	I-440-4(44)2,2	2N

REV 2-20-81: NOTE CONCERNING MARKING DEVICES ADDED AT WINFORD AVE. BERRY HILL ROAD CHANGED TO BERRY ROAD.

REV. 2-11-82: NOTE (A) UNDER DETOUR SCHEDULE REVISED. DETOUR FOR CLOSING BRANSFORD AVE. MOVED FROM BERRYWOOD DRIVE TO LARMON AVE. & GREYSTONE AVE. SIGNING REVISED ACCORDINGLY. TEMPORARY SIGNAL ADDED AT INTERSECTION OF BERRY ROAD AND GREYSTONE AVE.



DETOUR SCHEDULE

(A) THE FIRST BRIDGE TO BE CONSTRUCTED ON THIS PROJECT IS I-440 OVER BRANSFORD AVENUE. DETOUR LOCAL TRAFFIC VIA LARMON AVENUE, GREYSTONE AVENUE, AND BERRY ROAD. THE CONTRACTOR WILL NOT BE ALLOWED TO HAUL ACROSS THE GREYSTONE AVENUE DETOUR. WHEN THE BRANSFORD AVENUE BRIDGE IS COMPLETED THEN HE WILL BE ALLOWED TO HAUL ACROSS THE BRIDGE.

(B) WINFORD AVENUE TRAFFIC WILL BE DETOURED ALONG LONGVIEW AVENUE AND CRUZEN AVENUE. (THE WINFORD AVENUE BRIDGE IS IN A FUTURE PROJECT). TRAFFIC WILL BE DETOURED ALONG THIS ROUTE TILL THE WINFORD AVENUE BRIDGE AND APPROACHES ARE COMPLETED.

(C) A DETOUR ROAD IS TO BE CONSTRUCTED ON THE WEST SIDE OF NOLENSVILLE ROAD UNDER THIS PROJECT (THE BRIDGE, NOLENSVILLE ROAD OVER I-440 WILL BE IN A FUTURE PROJECT). TRAFFIC WILL BE DETOURED ON THE DETOUR ROAD UNTIL THE NOLENSVILLE ROAD BRIDGE AND APPROACHES ARE COMPLETED.

(D) IN THE AREA OF FOSTER AVENUE AND GLENROSE AVENUE, THE RELOCATION OF GLENROSE AVENUE IS TO BE COMPLETED BEFORE THE ROADWAY CUT AT FOSTER AVENUE CAN BE MADE. WHILE GLENROSE AVENUE IS BEING RELOCATED GLENROSE AVENUE WILL BE CLOSED AND TRAFFIC DETOURED ALONG FOSTER AVENUE AND ORIEL AVENUE. UPON THE COMPLETION OF THE RELOCATION OF GLENROSE AVENUE THE ROADWAY CUT CAN BE MADE AT FOSTER AVENUE AND TRAFFIC DETOURED ALONG GLENROSE AVENUE AND ORIEL AVENUE.

(E) WHILE THE WORK IS BEING DONE ALONG OLD GLENROSE AVENUE TRAFFIC IS TO BE MAINTAINED THROUGH THE CONSTRUCTION LIMITS AS SHOWN ON SHEET 2DD.

(F) THE TRAFFIC CONTROL AND MARKING DEVICES SHOWN FOR THE WINFORD AVENUE DETOUR, NOLENSVILLE ROAD DETOUR, AND FOSTER AVENUE DETOUR WILL BE LEFT IN PLACE UNTIL THE BRIDGES ARE COMPLETE. THESE TRAFFIC CONTROL AND MARKING DEVICES WILL BE REMOVED BY THE BRIDGE CONTRACTOR.

FOOTNOTES

(1) INDICATES PERMANENT SIGNING FOR STREET CLOSURES TO BE INSTALLED UNDER THIS CONTRACT. SEE STD. DWG. T-S-18 FOR DETAILS.

(2) TO BE INSTALLED AFTER THE OPENING OF BRANSFORD AVENUE.

-NOTE-
SEE NOTE (F) CONCERNING MARKING DEVICES.

~NOTE~

SEE SHEET NO. 2F FOR "PRIORITY OF CONSTRUCTION" AND DETAILED INFORMATION CONCERNING STAGES OF CONSTRUCTION OUTLINED FOR THIS PROJECT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL PLAN

TENN. STATE
Plans | Fd.
Divn. | No. 2 | File IN

SCANNED
SCANNED
FEB 18 2002
BY TRC

TYPE	YEAR	PROJECT NO.	SHT. NO.
CONST.	1981	I-440-4(33)211	2DD
BRIDGES	1981	I-440-4(44)212	2Ø

REV. 2-20-81; NOTE REGARDING TEMPORARY SIGNING ALONG FOSTER REVISED.
REV. 11-20-81: DRAINAGE REVISED AT OLD GLENROSE AVE. AND I-24.
REV. 10-24-83: UPDATED TRAFFIC CONTROL AT DORTCH AVE.

410 415 420 425 430 435 440 445 450 455 460

N

FOR INFORMATION ONLY
I-440-4(44)-212

19014-3109-44
END PROJ. I-440-4(33)211
STA. 460+00

STA. 408+00

ROSEDALE AVENUE
WINFORD AVENUE
K-LINE AVENUE
GRANDVIEW AVENUE
NOLENSVILLE ROAD
GLENROSE AVENUE (HAUL ROAD)
HESTER AVENUE
SADLER AVENUE
WICKSON AVENUE
PORTICH AVENUE
BURBANK AVENUE
FOX AVENUE
FOSTER AVENUE
NOLENSVILLE RD. DETOUR
I-440
ORIEL AVENUE
VALERIA STREET
PEACH TREE STREET
ROSE STREET
MILLER AVENUE
AUSTIN AVE.
CRUZEN AVENUE
GRANDVIEW AVENUE
KLINE AVENUE
WICKSON AVENUE
BURBANK AVENUE
FOSTER (HAUL ROAD)
AVENUE (HAUL ROAD)

W20-1 ROAD CONSTRUCTION 1500 FT.
G20-2 END CONSTRUCTION
DEAD END W14-1
DETOUR 1000 FT. W20-2
W11-3R
W13-1 30 MPH
R11-2 ROAD CLOSED DETOUR M4-10R
TYPE III BARRICADE
W11-3L
W11-2 ROAD CLOSED DETOUR M4-10L
W20-3 STREET CLOSED AHEAD
DETOUR AHEAD W20-2
M4-9L DETOUR
M4-9R DETOUR
R11-3 STREET CLOSED LOCAL TRAFFIC ONLY M4-10R
R11-4 STREET CLOSED TO THRU TRAFFIC
R11-2 STREET CLOSED
M4-8 DETOUR
M4-10L DETOUR
ROAD CONSTRUCTION 1500 FT. W20-1
200 TYPE III BARRICADE
250
500
1000
10
15
16
20
30
35
40
45
55
100
200
230
250
300
500

FOOTNOTES

(1) INDICATES PERMANENT SIGNING FOR STREET CLOSURES TO BE INSTALLED UNDER THIS CONTRACT. SEE STD. DWG. T-S-18 FOR DETAILS.

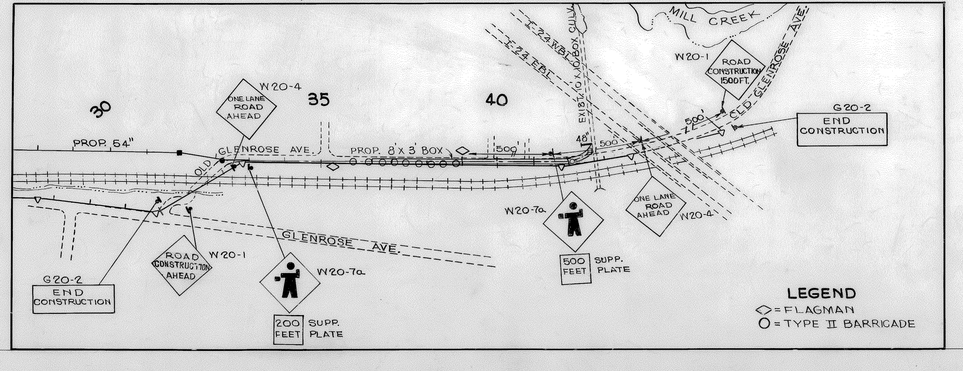
(2) INDICATES PERMANENT SIGNING FOR NOLENSVILLE ROAD DETOUR TO BE INSTALLED UNDER THIS CONTRACT, AND TO BE REMOVED UNDER A FUTURE CONTRACT.

NOTE

TEMPORARY SIGNING SHOWN ALONG FOSTER AVE. IS PRIMARILY FOR THE DETOUR OF FOSTER AVE. THE SIGNING FOR THE DETOUR OF GLENROSE AVE. IS TO BE THE REVERSE OF THE DETOUR FOR FOSTER AVE. OR AS DIRECTED BY THE ENGINEER. SEE NOTE (F) ON SHEET NO 2CC CONCERNING MARKING DEVICES.

~ NOTE ~

SEE SHEET NO. 2F FOR "PRIORITY OF CONSTRUCTION" AND DETAILED INFORMATION CONCERNING STAGES OF CONSTRUCTION OUTLINED FOR THIS PROJECT.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

TRAFFIC CONTROL PLAN

TENN. STATE HIGHWAYS
Plans | File
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SCANNED TO I-24 BY TRC

SCOPE - OF - WORK

THE GRADING OF I-440 FROM THE L & N. RAILROAD AT THE I-65 INTERCHANGE TO LYLE AVENUE TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS, PLAN AND PROFILE SHEETS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF ONE (1) ROADWAY BRIDGE (I-440 OVER BRANSFORD AVE.), AND ONE (1) 3 @ 8'X6' REINFORCED CONCRETE BOX BRIDGE (OVER BRANCH OF BROWNS CREEK) AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF BASE AND SURFACE ON CROSS ROADS, RELOCATED STREETS, SERVICE ROADS, PRIVATE DRIVES AND CUL-DE-SACS AS INDICATED ON TYPICAL CROSS-SECTIONS, AND PROPOSED LAYOUT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE SURFACING OF DETOUR ROADS (BERRYWOOD DRIVE, BERRY ROAD, CRUZEN AVENUE, ORIEL AVENUE). THE SURFACING OF HAUL ROADS (BRANSFORD AVENUE, FOSTER AVENUE, GLENROSE AVENUE). THIS WORK TO BE DONE WHERE AND AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF STORM SEWER SYSTEMS, AND THE RELOCATION AND ADJUSTMENT OF SANITARY SEWER SYSTEMS AND WATER LINES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK INCLUDES THE EXTENSION OF THE STORM SEWER SYSTEM (54" PIPE AND 8'X3' BOX CULVERT) FROM GLENROSE AVENUE AT I-440 DOWN TO OLD GLENROSE AT I-24 AND MILL CREEK. THIS WORK TO BE DONE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF THE L & N RAILROAD RUNAROUND, AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SPECIAL ATTENTION SHOULD BE DIRECTED TO THE FACT THAT THIS CONTRACTOR WILL CONSTRUCT THE EMBANKMENT, AND THE SUB-BALLAST WORK ALONG WITH A SPECIAL 27'-2" X 19'-1" MULTI-PLATE STEEL UNDERPASS STRUCTURE. HOWEVER THE FUTURE CONTRACTOR FOR L & N R.R. BRIDGE WILL HAVE THE RESPONSIBILITY OF REMOVING THE RUN-AROUND, AND THE MULTI-PLATE STRUCTURE.

THE CONSTRUCTION OF A DETOUR ROAD FOR NOLENSVILLE ROAD. THIS WORK INCLUDES THE FOLLOWING ITEMS:

(1) GRADING AND CONSTRUCTION OF BASE AND SURFACE.

(2) INSTALLATION OF A 27'-2" X 19'-1" MULTI-PLATE STEEL UNDERPASS STRUCTURE.

(3) STRIPING AND PAVEMENT MARKING AS INDICATED ON THE PLANS.

(4) LIGHTING AS INDICATED ON THE PLANS (NOTE: WHEN THE DETOUR IS NO LONGER IN USE, NASHVILLE ELECTRIC SERVICE WILL BE RESPONSIBLE FOR DISMANTLING THE LIGHTING, AND THE MATERIALS WILL BECOME THEIR PROPERTY.)

(5) PERMANENT SIGNING FOR THE DETOUR AS INDICATED ON THE PLANS. (NOTE: A FUTURE CONTRACTOR WILL HAVE THE RESPONSIBILITY FOR REMOVING THE DETOUR SIGNING.)

(6) TEMPORARY FENCING (STOCK FENCE) IS TO BE INSTALLED ON THE WEST SIDE OF THE DETOUR.

(7) GUARDRAIL IS TO BE INSTALLED ON BOTH SIDES OF THE DETOUR AS INDICATED ON THE PLANS.

(8) A TEMPORARY SIDEWALK IS TO BE INSTALLED ON THE WEST SIDE OF THE DETOUR AS INDICATED ON THE PLANS

ALL OF THE ABOVE WORK IS TO BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXCEPT AS OTHERWISE NOTED. A FUTURE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING THIS DETOUR WHEN IT IS NO LONGER IN USE.

THE CONSTRUCTION OF RETAINING WALLS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF CHAIN LINK FENCE (VINYL COATED GREEN), GUARDRAIL, BERMS FOR STREET CLOSURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF PERMANENT SIGNING FOR STREET CLOSURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF A DETAILED TEMPORARY TRAFFIC CONTROL PLAN AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONSTRUCTION OF A DETAILED TEMPORARY POLLUTION CONTROL PLAN AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ALL DITCH PAVING, SODDING, SEEDING AND OTHER MISCELLANEOUS ITEMS FOR THE COMPLETION OF THIS PROJECT.

PRIORITY OF CONSTRUCTION

TYPE	YEAR	PROJECT NO.	SHEET NO.
~~CONST~~	~~1981~~	~~I-440-4(33)212~~	~~2~~
BRIDGE	1981	I-440-4(44)212	2P

REVISED: 2-20-81; FENCING NOTE IN PRIORITY OF CONSTRUCTION REVISED.
REV. 3-3-81; FENCING NOTE IN PRIORITY OF CONSTRUCTION REVISED.

THE FOLLOWING IS A SUGGESTED PRIORITY OF CONSTRUCTION FOR THIS PROJECT. THE CONTRACTOR MAY ELECT TO SET A DIFFERENT PRIORITY OF CONSTRUCTION, IF HE DOES, THEN HE IS TO SUBMIT HIS PRIORITY OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL.

STAGE I

THE FIRST AREA OF CONSTRUCTION IS TO BE THE BRANSFORD AVENUE BRIDGE AND APPROACHES.

1. INSTALL THE PROPOSED 36" WATER MAIN ALONG BERRYWOOD DRIVE AND BERRY ROAD. THIS WORK MUST BE DONE PRIOR TO CLOSING BRANSFORD AVENUE AND DETOURING TRAFFIC ON BERRYWOOD DRIVE AND BERRY ROAD.
2. CLOSE BRANSFORD AVENUE THROUGH THE CONSTRUCTION LIMITS. CONSTRUCT PROPOSED IMPROVEMENTS ON BRANSFORD AVENUE AND CONSTRUCT BRIDGE AND APPROACHES OVER BRANSFORD AVENUE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO HAUL ACROSS THE DETOUR OF BERRYWOOD DRIVE. WHEN THE BRANSFORD AVENUE BRIDGE IS COMPLETED, THE CONTRACTOR WILL BE ALLOWED TO HAUL ACROSS THE STRUCTURE AS OUTLINED IN THE SPECIAL PROVISIONS.
4. ALSO INCLUDED IN THIS STAGE MAY BE THE CONSTRUCTION OF THE 3 @ 8'X6' CONCRETE BOX BRIDGE AT THE I-65 INTERCHANGE.

STAGE II

1. THIS WORK INCLUDES THE CONSTRUCTION OF THE DRAINAGE SYSTEM BEGINNING AT MILL CREEK AND I-24, PROCEEDING UP TO OLD GLENROSE AVENUE AND ALONG OLD GLENROSE AVENUE. PROCEEDING ALONG THE EAST SIDE OF THE L & N RAILROAD TO THE I-440 AND GLENROSE AVENUE CROSSING. COMPLETE THE DRAINAGE SYSTEM ALONG THE I-440 PARKWAY AS SHOWN ON PLANS.
2. THE RELOCATION OF GLENROSE AVENUE. THE STORM AND SANITARY SEWER DRAINAGE SYSTEM AND OTHER UTILITY ADJUSTMENTS AND RELOCATIONS IN THIS AREA. THE SANITARY SEWER WORK MUST BE COMPLETED PRIOR TO THE STORM SEWER WORK IN THIS AREA.
5. WHEN THE RELOCATION OF GLENROSE AVENUE IS COMPLETE, THE CONTRACTOR MAY PROCEED WITH THE ROADWAY EXCAVATION WORK ON THE MAIN LINE. THE ROADWAY CUT ON FOSTER AVENUE MAY BE MADE AFTER CLOSING FOSTER AVENUE AND DETOURING TRAFFIC ONTO GLENROSE AVENUE

STAGE III

THE CONTRACTOR WILL CONSTRUCT THE L & N RAILROAD RUNAROUND IN THE FOLLOWING ORDER:

1. CUT AND INSTALL THE 36" PIPE IN THE MEDIAN BEGINNING AT STA. 426+30± TO STA. 428+00.
2. CUT AND INSTALL THE 36" C.M. PIPE LEFT OF THE W.B.L. BEGINNING AT STA. 426+75± TO OUTLET OF THE PIPE AT CODE # 40.
3. CUT AND INSTALL THE MULTI-PLATE STRUCTURE LT. STA. 392+00 (L & N RAILROAD).
4. CONSTRUCT THE EMBANKMENT OF THE L & N RAILROAD RUNAROUND AS INDICATED ON THE CONTOUR GRADING PLAN.
5. INSTALL THE SUB-BALLAST ON THE L & N RAILROAD RUNAROUND. THEN THE L & N RAILROAD WILL FINISH THE FINAL TRACK WORK ON THE RUNAROUND, AND DETOUR THE TRAIN TRAFFIC OVER TO THE RUNAROUND. AFTER TRAIN TRAFFIC HAS BEEN DETOURED, THE L & N RAILROAD WILL REMOVE THE RAILS AND TIES FROM THE MAIN TRACK. AND THEN THE CONTRACTOR MAY PROCEED WITH HIS EXCAVATION WORK.

STAGE IV

THE CONTRACTOR WILL CONSTRUCT THE NOLENSVILLE ROAD DETOUR IN THE FOLLOWING ORDER:

1. CUT AND INSTALL THE 30" CONCRETE PIPE IN THE MEDIAN FROM STA. 419+00 TO STA. 421+00.
2. CUT AND INSTALL THE 18" C.M. PIPE RIGHT OF THE W.B.L. (CODE # 38 TO # 38a).
3. CUT AND INSTALL THE 18" C.M. PIPE RIGHT OF THE E.B.L. (CODE #37 TO # 37a).
4. CUT AND INSTALL THE MULTI-PLATE STRUCTURE AT STA. 54+60± ON THE DETOUR.
5. COMPLETE THE GRADING WORK AS OUTLINED ON THE GRADING PLAN.
6. COMPLETE THE BASE, PAVING, GUARDRAIL, TEMPORARY FENCING, STRIPING, PAVEMENT MARKER, LIGHTING, AND SIGNING AS INDICATED ON THE PLANS.
7. UPON COMPLETION OF THE WORK ON THE NOLENSVILLE ROAD DETOUR, TRAFFIC CAN BE PUT ON THE DETOUR AND THE CONTRACTOR CAN PROCEED TO MAKE HIS ROADWAY CUT ACROSS NOLENSVILLE ROAD AND DO OTHER EXCAVATION WORK REQUIRED IN THE AREA.

FENCING IS A HIGH PRIORITY AREA ON THIS PROJECT. AS A FIRST ORDER OF CONSTRUCTION, THE FENCE WILL BE INSTALLED THROUGHOUT THIS PROJECT TO KEEP CONSTRUCTION OFF OF PRIVATE PROPERTY AND THE PUBLIC OFF OF CONSTRUCTION SITES. THE FENCE AT RETAINING WALLS NO. 1, NO. 2, NO. 5, NO. 6, & NO. 7 WILL BE MOVED TO THE TOP OF SAID RETAINING WALLS AFTER THEIR CONSTRUCTION AS DIRECTED BY THE ENGINEER. FOR DETAILS OF POST CONSTRUCTION SEE THE APPROPRIATE RETAINING WALL DRAWINGS. ALL COSTS FOR MOVING THE FENCE TO THE TOP OF SAID RETAINING WALLS WILL BE INCLUDED IN THE UNIT PRICES BID FOR FENCE AND RETAINING WALL ITEMS. IF ANY OF THE FENCE IS DAMAGED AFTER THE INITIAL FENCE INSTALLATION THE CONTRACTOR WILL BE REQUIRED TO REPAIR AND/OR REPLACE SUCH FENCE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FOR INFORMATION ONLY
I-440-4(44)212

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

~~SCOPE OF WORK~~
PRIORITY OF CONSTRUCTION

BRUNING 23431

SCANNED

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
RIGHT OF WAY
FILE IN
219

REV. 12-30-70; SLOPE LINES CORRECTED.

REV. 12-3-70: CHANGED OWNERSHIP FOR TRACT NOS. 14D AND 31A.

PARCEL NO.	SUBD. LOT NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	AREA TO BE TAKEN	AREA TO REMAIN
8	53	VIRGINIA DEVER CO-TRUSTEE	2013	273	1735 S.F.	0.30 AC.
9	—	NOT NEEDED	—	—	—	—
10	122	F.A. LOVE & BARY AGNES LOVE	2012	497	0.17 AC.	NONE
11	123	MELVIN C. HAYNES &	2028	487	0.34 AC.	NONE
12	125	W.B. WILLIAMS &	1005	310	0.30 AC.	NONE
	126	LILLIAN WILLIAMS & HEIRS				
13	—	NOT NEEDED	—	—	—	—
14	134	LEROY BLANKENSHIP & HEIRS	2991	39	0.17 AC.	NONE
15	135	NOLA SYLVIA MASSEY	2592	619	0.17 AC.	NONE
16	136	RUFUS M. SMITH &	1349	71	0.17 AC.	NONE
		WILLIE T. SMITH & HEIRS				
17	137	ERMINIE ANDA BELLE EDENS & HEIRS	3136	625	0.17 AC.	NONE
18	138	AGNES S. RAINEY & HEIRS	1644	415	0.17 AC.	NONE
19	139	SALLY H. WINGLER	2034	79	0.17 AC.	NONE
20	216	NAMIE O. WRITESMAN	1314	143	0.17 AC.	0.17 AC.
21	217	SARA S. ROBINS &	3765	581	0.34 AC.	NONE
	218	SARAH R. TURNER				
22	219	JAMES A. GLOVER &	2450	7	0.17 AC.	NONE
		PEGGY ANN WRIGHT GLOVER				
23	220-221 222	LEAMON NAFE & PEARL NAFE & HEIRS	1172	150	0.425 AC.	3750 S.F.
24	NOT	NEEDED				
25	237	CRAIG N. HUGHES &	808	145	0.34 AC.	NONE
	238	RUTH HUGHES				
26	239	FRANK E. MCCLENDON &	3376	372	0.17 AC.	NONE
		MARIE L. MCCLENDON & HEIRS				
27	240	HATTIE S. SHIRLEY	3676	375	0.17 AC.	NONE
28	241	WILLIAM O. LEE & GEORGE HUNT	4008	438	0.17 AC.	NONE
29	242	W. P. FULTS & FELIX JAME P. FULTS	2596	614	0.17 AC.	NONE
30	243	DONALD LEON BROWN & HEIRS	3806	5	0.17 AC.	NONE
31	324-325 326	FRANK W. LAMAY & MABBIE L. LAMAY	3569	13	0.17 AC.	NONE
32	324-325 326	WOODROW G. BURNS & GEORGE HUNT	3909	835	0.17 AC.	NONE
33	327 328	WILLIS W. AGEE & HATTIE B. AGEE & HEIRS	1846 1116	569 182	0.34 AC.	NONE
34	329	THOMAS F. OWENS	3825	559	0.17 AC.	NONE
35	330 331	LEAMON ANDREWS, ETUX	3873	802	0.15 AC.	(1) 0.19 AC.
12A 12B	127	METRO-GOV.-NASH.	4051 & 1046	899 & 60	4179 S.F.	5.00 AC.
14A	133	EDGAR TURRENTINE, ETUX	3251	40	0.17 AC.	NONE
14B	132	JAMES C. BENNETT, ETUX	3343	339	NONE	0.17 AC.
14C	131	ROBERT L. HOOPER, ETUX	3614	197	NONE	0.19 AC.
14D	129	ROBERT L. HOOPER JR. ET UX	3619	475	27 S.F.	0.189 AC.
14E(S)	128	ROBERT L. HOOPER AND WIFE JOSEPHINE HOOPER	4972	43	989 S.F.	0.397 AC.
31A	324-325 326	WOODROW G. BURNS & GEORGE HUNT	3909	836	0.17 AC.	NONE

(1) INCLUDES 2280 SQ. FT. FOR EASEMENT

REV. 4-1-68: P.I. STATION ADDED FOR I-440 & WINFORD AVE; CURVE DATA ADDED ON WINFORD AVE ALIGNMENT.

REV. 4-17-68: AREA CORRECTED ON PARCEL 8.

TEMP. CONST. EASEMENT

PARCEL NO.	FOR	SQUARE FEET
12A	FILL SLOPE	1086
12B		1425
14B		500
14C		425
14D		285
14-E(S)	FILL SLOPE	90

REV. 10-21-68: COMBINED TRACTS 12-A & 12-B, DELETED PROPERTY LINES BETWEEN SAID TRACTS; ALSO REMOVED THE WORD "PERMANENT" FROM EASEMENT AREAS. REMOVED EASEMENT FROM BERRY SCHOOL DRIVEWAY.

REV. 6-9-69: CHANGE NAMES ON TRACT NOS. 8, 140, 17, 31A, 32, & 34.

REV. 12-10-69: OWNERSHIPS OF TRACTS # 14-E, 15 & 32 CHANGED.

REV. 4-1-70: CHANGED THE OWNER OF TRACT NO 8.

REV. 1-12-81: REVISED SLOPE LINES ON WINFORD AVE., CHANGED TRACT NO. 14E TO 14E(S), PROPERTY OWNERS CORRECTED ON TRACT NO. 14E(S). BOOK AND PAGE NO. CORRECTED ON TRACT NO. 14E(S). TEMPORARY CONSTRUCTION EASEMENT REVISED ON TRACTS NO. 12B, 14B, 14C, 14D & 14E(S). TEMPORARY CONSTRUCTION EASEMENT TABLE REVISED.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-4(6) 209 R.O.W.	68 19	16	68

PROJECT NO.	I-440-4(44) 212
YEAR	1981
SHEET NO.	3

FED. ROAD DIST. NO.	3
STATE	TENN.
PROJECT NO.	I-440-4(33)211
FISCAL YEAR	1981
SHEET NO.	9
TOTAL SHEETS	68

NOTE:
FOR INDEX OF PROPERTY OWNERS SEE SHEET NO. 22 (201-B(D) & 200(D) ONLY)
~~FOR PRESENT LAYOUT SEE SHEET NO. 45~~
FOR UTILITIES SEE SHEET NO. 64

STA 399+00 TO STA 413+00
PROPOSED R/W

BRIGHTON ENGINEERING CO.
SHEET 16 — I-440-4(33)211

SCALE: 1"=50'
DATE: 7-20-64

SCANNED
TENN. STATE LIBRARY Archives
Plans Div. File 219

PARCEL NO.	SUBD. LOT NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	AREA TO BE TAKEN	AREA TO REMAIN
36	339	ROBERT HUGH SLOAN &	1852	218	NONE	(1) 0.25AC.
37	340	BESSIE ROBERTA SLOAN & HEIRS	2039	26		
38	341	JAMES E. GAMMON & RUTH W. GAMMON & HEIRS	2486	421	0.17AC.	NONE
39	342	J. FRANK SMITH, ETUX	3876	687	0.17AC.	NONE
40	343	JIM STEVENS	3370	541	0.17AC.	NONE
41	344-345 346	EDGAR TURRENTINE & WILLAMINA TURRENTINE	3166	615	0.43AC.	NONE
42	346 347	REGINALD MEEKS & ANN F. MEEKS & HEIRS	1627	573	0.13AC.	NONE
43	348 349	SCOTT WALLS & IRENE M. WALLS	2021	556	0.13AC.	NONE
44	350	LONGVIEW AVENUE CHURCH OF CHRIST	1227	69	0.17AC.	0.17AC.
45	432 433	WILLIAM DAVID MAYS & MARY ELIZABETH MAYS & HEIRS	1760	351	0.27AC.	3384 S.F.
46	434 435	MARY E. MAYS, ETVR	772	114	0.34AC.	NONE
47	436 437	ALTON R. RAY & BETTIE THOMAS RAY & HEIRS	2241	185	0.34AC.	NONE
48	438	KELLY CRABTREE	3400	1	0.17AC.	NONE
49	439	GEORGE HUNT & PAUL W. TICE	3278	90	0.17AC.	NONE
50	440	JOHN SHEED JONES & HEIRS	2545	508	0.17AC.	NONE
51	441	J. HENDERSON PERRY & HEIRS	2881	15	0.17 AC.	NONE
52	442	SING MARGARET DRAKE & HEIRS	439	266	0.17AC.	NONE
53	443	HOLLIS C. WELCH & DOROTHY WELCH & HEIRS	3255	363	1400 Sq. Ft.	(2) 0.138AC.
54	444	PAUL L. LAVENDER & BONNIE LYNN LAVENDER & HEIRS	2927	175	0.17AC.	NONE
55	445	ERNEST F. MOFIELD & GLADYS C. MOFIELD	1284	431	0.17AC.	NONE
56	450	DOVIE POPE MCELYEA & HEIRS	1169	66	0.17AC.	NONE
57	451	MYRTLE ADCOCK, ETVR	2095	201	0.17AC.	NONE
58	452	CLYDE H. COFFMAN & EVE N. COFFMAN & HEIRS	1324	150	0.17AC.	NONE
59	453	J. H. ERVIN & IMORA R. ERVIN	2021	145	0.26AC.	NONE
66	431	MARY A. REEVES	2648	294	481 SQ. FT.	0.159AC.

(1) INCLUDES 1,950 Sq. Ft. FOR EASEMENT
(2) INCLUDES 3,700 Sq. Ft. FOR EASEMENT

59	454	WILLIAM ELLIS BAUCOM &	3537	309	0.26AC.	NONE
60	455 456	EVA WILSON BAUCOM & HEIRS JOHN D. LAWSON &	2906	627	0.34AC.	NONE
61	457	ELIZABETH LAWSON & HEIRS	1092	276	0.17AC.	NONE
62	458	CARRENA MCKNIGHT & HEIRS	3246	279	0.17AC.	NONE
71	459	LONZO WAYNE FANNING & CLIFFORD H. FANNING & HEIRS	447	518	0.17AC.	NONE
72	542	HOUSTON MCCORD REALTY Co.	2801	307	0.36AC.	NONE
73	543-544 545	NATIONAL LIFE & ACCIDENT INSURANCE Co.	4079	880	0.16AC.	NONE
74	546	ANNIE RUTH LEE	3340	319	0.17AC.	NONE
75	547	BEVERLY S. BARR & HEIRS	1323	157	0.17AC.	NONE
43A	350	CHAS RAYMOND CHILDRESS & RUBY LEE CHILDRESS	1227	29	83 S.F.	0.17AC.
		SPENCER MORGAN HENRY, ETUX				

Continued On Upper and Lower Match Sheet

REV. 5-3-68: CORRECTED PROPERTY LINE ON TRACT NO. 81.
REV. 10-21-68: REMOVED R BETWEEN TRACTS 77 & 78 AND COMBINED SAID TRACTS. REMOVED THE WORD "PERMANENT" FROM EASEMENT AREAS.
REV. 12-3-68: R.O.W. CHANGED ON PARCELS 111 & 113.
REV. 5-5-69: REVISED THE PROPERTY LINE BETWEEN TRACTS 121 & 122, ADJUSTED DIMENSIONS ACCORDINGLY.

NOTE:
FOR PRESENT LAYOUT SEE SHEET NO. 46
FOR UTILITIES SEE SHEET NO. 65

REV. 12-10-69: OWNERSHIP OF TRACT #76 CHANGED.
REV. 3-3-70: LENGTHS OF NORTH & SOUTH BOUNDARIES OF PARCEL #71 INCREASED.

REV. 4-17-68, SEVERED PORTIONS OF PARCELS 79, 80 AND 81 INDICATED.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-4(33)211	1981	10	

F.A.U. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-1(6) 209 R.O.W.	1968	17	48

MATCH TO RIGHT-HAND PORTION OF SHEET 18 (R.O.W.) 11 (CONST.)

MATCH TO LEFT-HAND PORTION OF SHEET 18 (R.O.W.) 11 (CONST.)

REV. 12-3-70: CHANGED OWNERSHIP ON TRACT NOS. 48 AND 66.

REV. 2-20-61: SLOPE LINES ALONG L & N RAILROAD REVISED.

REV. 12-30-70: SLOPE LINES CORRECTED.

REV. 6-9-69: CHANGED NAMES ON TRACT NOS. 46, 48, 61, 62, 65 & 95

STA. 413+00 TO STA 429+00
PROPOSED R/W
BRIGHTON ENGINEERING CO.
SHEET 17 — I-440-4(33)211
SCALE: 1" = 50'
DATE: 8-17-68

PROJECT NO.	YEAR	SHEET NO.
I-440-4(45)212	1981	3
I-440-4(44)212	1981	4

SCANNED

TENN. STATE HIGHWAYS
IN-
219

EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

PARCEL NO.	SUBD. LOT NO.	OWNER CONT'D. FROM LAST SH.	DEED RECORD BOOK	PAGE	AREA TO BE TAKEN	AREA TO REMAIN
76	548	J.W.GRIGGS, C.L.GRIGGS, Trustees	2146	239	0.17 AC.	NONE
77	549	GEORGE D. WALLER & JULIA A. WALLER & HEIRS	2993	317	0.76 AC.	NONE
78	550-551 552		2158	539 608		
79	553	F. W. GAY JR. & MYRTLE GAY	919	248	0.22 AC.	3145 S.F.
80	76	BUFORD P. TURNER & SARA K. TURNER & HEIRS	1194	440	1112 SQ. FT.	0.184 AC.
81	75	LAURA J. COLEMAN & HEIRS	663	263	663 SQ. FT.	0.21 AC.
88	28	B.N. BRITTAIN	2859	137	0.137 AC.	3190 SQ. FT.
89	29	O. J. WHITE & HEIRS	2861	167	0.114 AC.	4185 SQ. FT.
90	30					
91	31	KATHERINE E. HAHN	4115	697	4252 SQ. FT.	0.122 AC.
92	32	ROY C. JACKSON & STELLA CROUSE JACKSON	1906	35	2500 SQ. FT.	0.159 AC.
93	14	ELLIE R. JONES, TR.	1281	213	0.21 AC.	NONE
94	15	JOSEPHINE B. TONEY	3647	103	0.17 AC.	NONE
95	16 17	JEFF D. MERRITT & ELSIE L. MERRITT	1516	12	0.34 AC.	NONE
96	18	IRA PHELPS & JACK M. BATSON	4093	154	0.17 AC.	NONE
97	19	CLAUDE L. HARRIS & VERA HARRIS & HEIRS	1430	47	0.23 AC.	NONE
98	2-3 4	W. R. PERKINS JR. & NELLIE H. PERKINS & HEIRS	2018	109	0.47 AC.	NONE
99	5 6	GEORGE COLE MOTOR Co.	3161	328	0.34 AC.	NONE
100	7-8-9 10-11	ROBERT B. MC BRIDE	3249	191	0.83 AC.	NONE
101	11 12	WILLIAM FRANK CROWELL & ELIZABETH CROWELL & HEIRS	1583	403	0.32 AC.	NONE
102	13	EDD D. WINFREY & LILLIE WINFREY & HEIRS	1264	113	0.20 AC.	NONE
103	47	HOUSTON MCCORD REALTY Co.	410	516	0.90 AC.	NONE
104	NO NUMBER	HOUSTON MCCORD REALTY Co.	410	516	0.42 AC.	NONE
111	54-55 56	R. L. SLAYDEN, TR.	2136	477	0.04 AC.	0.485 AC.
113	50-51 52-53	HOUSTON MCCORD REALTY Co.	410	516	0.650 AC.	3045 SQ. FT.
114	11	CORDELL HUNTER & MAE SPAIN HUNTER & HEIRS	2156	123	0.30 AC.	NONE
115	11	MARK R. GILLEHAY & JOANITA GILLEHAY & HEIRS	2291	228	0.30 AC.	NONE
116	10	EDNA P. BROWN	2995	325	0.19 AC.	NONE
121	12-13 14	GLEN O. TANKERSLEY & ETHEL TANKERSLEY	3435	262	0.57 AC.	NONE

PARCEL NO.	SUBD. LOT NO.	OWNER NOLENSVILLE SOUTH	DEED RECORD BOOK	PAGE	AREA TO BE TAKEN	AREA TO REMAIN
63	460	JOHN T. RUCKER & FRANCIS E. RUCKER & HEIRS	2996	41	0.17 AC.	NONE
64A	461	OLIVIA WOODROOF	1391	275	0.124 AC.	2001 SQ. FT.
64B	462	OLIVIA WOODROOF	514	53	427 SQ. FT.	0.160 AC.
68	535-536 537-538	AMERICAN OIL Co.	2639	32	1695 SQ. FT.	0.271 AC.
69	536-537 538-539	L&N R.R CO.	412	90	0.135 AC.	0.165 AC.
70	540 541	HOUSTON MCCORD REALTY Co.	413 416	645 623	0.35 AC.	NONE
107	6	HUMBLE OIL & REFINING CO.	2346	368 367	1476 SQ. FT.	0.346 AC.
109	1 &	JOSEPHINE F. WHITLEY & HEIRS	2155	223	0.18 AC.	NONE
110	2 & 3	VIVIAN FRANKLIN & HEIRS	3429	407	2891 SQ. FT.	0.154 AC.
112	NO NUMBER	CHARLES E. BISHOP & HEIRS	1428	177	1.04 AC.	0.59 AC.
		NOLENSVILLE NORTH				
82	74	EUDORA PARKER & HEIRS	1102	77	480 SQ. FT.	0.169 AC.
83	73 & 75	METRO-GOV-NASH.	1040	468	Access Control	0.70 AC.
84	NOT	NEEDED				
85	11 6-7	G. B. & ANN PEWITT & JAMES T. & MARY WHITE	2993	243	0.33 AC.	0.48 AC.
86	27	MELVIN WEBSTER & RUBY JEWEL WEBSTER & HEIRS	2543	565	0.156 AC.	1920 SQ. FT.
87	27 28	ROBERT N. THOMPSON & MILDRED THOMPSON & HEIRS	1855	11	0.149 AC.	2,200 SQ. FT.
97	1	JASPER E. REID & ZELMA M. REID & HEIRS	1848	635	0.20 AC.	NONE
65	NOT	NEEDED				
67	NOT	NEEDED				
105		E. W. HILL	2801	451	Access Cont.	0.29 AC.
106		E. W. HILL	2808	57	Access Cont.	0.305 AC.
108		M. J. L. POLK	4198	273	Access Cont.	0.32 AC.
105-A		E. W. HILL	2825	141	~~0.239 AC.~~	0.277

REV. 5-9-70 LENGTHS OF BOUNDARIES OF PARCELS #69 & #70 CHANGED; OWNERSHIP OF PARCEL #69 CHANGED; AREA OF PARCELS NO. 69 & NO. 70 CHANGED. REV. 12-30-70: SLOPE LINES CORRECTED.

NOTE:
FOR PRESENT LAYOUT SEE SHEET NO. 47
FOR UTILITIES SEE SHEET NO. 66

REVISION NO. 1 4-17-68
ADDED PROPERTY OWNER NAME BEHIND PARCEL 82
ADDED SEVERED PARCEL 82
CHANGE END OF FENCE LEFT OF NOLENSVILLE PIKE
PARCEL 64 B CORRECTED NAME WOODRUTH to WOODROOF
PARCEL 68 CHANGED AREA 0.173 Ac. to 0.137 Ac.
REV. 5-3-68: CORRECTED REMAINDER AREA ON TRACT NO. 81.
REV. 10-21-68: COMBINED TR. NOS. 77 & 78.
REV. 12-3-68: AREAS CHANGED ON PARCELS 111 & 113; R.O.W. AND CONTROL OF ACCESS EXTENDED 100' NORTH ON NOLENSVILLE RD.
REV. 12-10-69: OWNERSHIP OF TRACT #76 CHANGED.

REVISED JAN. 9, 1969: TRACT Nº 105, Nº 106 AND Nº 108 ADDED TO PLANS.

REV. 5-5-69: CORRECTED TAKE AREA ON TRACT NO. 121.
REV. 8-4-69: ADDED TRACT Nº 105-A TO PLANS.
REV. 8-28-69: MOVED WEST P.L. TRACT Nº 105-A AND INCREASED AREA TO REMAIN.

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	5

NOLENSVILLE SOUTH

NOLENSVILLE NORTH

PROPOSED R/W

BRIGHTON ENGINEERING CO. | SCALE: 1"=50'
SHEET 18 — I-440-4(33)211 | DATE: 8-21-64

TOTAL SHEETS	68
FISCAL SHEET NO.	18
FISCAL YEAR	68
FEDERAL AID PROJECT NO.	I-440-4(33)211
FED. ROAD DIST. NO.	3
TOTAL SHEET NO.	11
FISCAL YEAR	1981
T 5 N	T 6 N
R 2 W	R 2 W

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44) 212	1981	6

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-4(33)211	1981	12	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-440-4(6) 209 R.O.W.	1968	19	68

REV. 4-24-81: NOTE CONCERNING OBLITERATED PAVEMENT ON DORTCH AVE. REVISED.

REV. 1-12-81: CHANGED TRACT NOS. 130 TO 130(S), 130A TO 130A(S), 130B TO 130B(S), 130C TO 130C(S), AND 130D TO 130D(S). PROPERTY OWNERS, BOOK, AND PAGE NOS. REVISED ON TRACT NOS. 130(S), 130A(S) AND 130C(S). SUBDIVISION LOT NOS. ADJUSTED ON TRACT NOS. 130A(S), 130B(S), 130C(S) AND 130D(S). TEMPORARY CONSTRUCTION EASEMENT TABLE REVISED.

REV. 4-17-68: SEVERED REMAINDERS INDICATED ON PARCELS 117, 118, 119, 120A, 120-B AND 132.
REV. 10-21-68: REVISED LOCATION OF GARAGE ON TRACT NO. 147.
REV. 5-9-69: CORRECTED PROPERTY LINES BETWEEN TRACT NOS. 121 & 122, ALSO ADJUSTED TAKE AREA FOR TR. 122, IN TABULATION BLOCK.
REV. 6-9-69: CHANGED NAME ON TRACT NO. 142
REV: 12-2-69: REVISED PROPERTY LINES AND AREA TAKEN ON TRACTS 125 AND 127.
REV. 12-30-70: SLOPE LINES CORRECTED.
REV. 10-24-83: REVISED OWNER OF TRACT NO. 150. ALSO REMOVED BERM ON DORTCH AVE., AND UPDATED TOPO IN THIS AREA.

*PARCELS 126B & 139 DELETED
**SEE TEMP. CONST. EASEMENT LISTING

PARCEL NO.	SUBD. LOT NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	AREA TO BE TAKEN	AREA TO REMAIN
117	9	H. B. HOLLADAY & PAUL D. HOLLADAY & HEIRS	2879	27	0.182 ACRES	366 S.F.
118	8	FRED GILES & MARGARET O. GILES & HEIRS	784	44	0.156 ACRES	2340 S.F.
119	7	JAMES M. BELL & OLLIE M. BELL & HEIRS	2450	481	3946 S.F.	3523 S.F.
120A	6	COULTER M. BAGGETT & BERTHA PAULINE BAGGETT	2394	635	2685 S.F.	0.128 ACRES
120B	5	ROY E. HICKAM & NELL HERROD HICKAM & HEIRS	1198	186	895 S.F.	0.149 ACRES
121	SEE	PRECEDING SHEET		(No.12)		
122	14 15	FLETCHER MERIWETHER & IRENE MERIWETHER & HEIRS	1339	270	0.33 ACRES	NONE
123	16	STATE OF TENNESSEE	2698	291	0.25 ACRES	NONE
124	18	LOIS TURNER & HEIRS	1199	267	0.22 ACRES	NONE
125	19	EDWARD H. ALRED & ANNIE BELL ALRED & HEIRS	1296	140	0.22 ACRES	NONE
126	20	H. C. BOWMAN & MILDRED E. BOWMAN & HEIRS	3312	466	0.21 ACRES	NONE
* ~~126B~~	~~20~~	~~MEREDITH M. BOOTH & LOIS CRAWFORD BOOTH & HEIRS~~				
127	21	LOIS TURNER & HEIRS	1199	267	0.24 ACRES	NONE
128	22	H. C. HARALSON, ETUX	2996	469	0.22 ACRES	NONE
129	23	LOIS TURNER & HEIRS	1199	267	0.22 ACRES	NONE
** 130(S)	34	MICHAEL W. MAYBERRY & WIFE GAIL McEWEN MAYBERRY	5420	380	1319 S.F.	0.265 ACRES
131	54	ALLIE M. JOHNSON & HEIRS	1472	9	0.110 ACRES	3060 S.F.
132	55 58	WILLIS R. JONTE & MARY E. JONTE & HEIRS	1218	342	0.206 ACRES	2767 S.F.
133	NOT	NEEDED				
134	145-146 147	MRS. WHITTIE V. DIXON & EARL DIXON & HEIRS	1055	133	0.31 ACRES	0.16 ACRES
135	148	MRS. C. C. INMAN & HEIRS	2344	245	3775 S.F.	3725 S.F.
136	149	W. H. SMITH & ADA SMITH & HEIRS	796	184	3237 S.F.	0.096 ACRES
137	150	J. E. SMITH & HEIRS	2344	227	2812 S.F.	0.105 ACRES
138	5	STATE OF TENNESSEE	2700	379	0.313 ACRES	178 S.F.
* ~~139~~	~~5~~	~~MRS. E. C. NENSON~~				
140	4	F. H. NEIL, ETUX	4085	542	738 S.F.	0.113 ACRES
141	217	E. E. INGRAM & MYRTLE INGRAM & HEIRS	1451	125	2994 S.F.	0.121 ACRES
142	218	CLARENCE PRESTON & BERT PRESTON	3616	387	0.19 ACRES	NONE
143	219	W. M. MANGRUM & THEOLA MANGRUM & HEIRS	2196	169	0.19 ACRES	NONE
144	220	ROBERT INMAN & LENA MAE INMAN & HEIRS	790	523	0.19 ACRES	NONE

PARCEL NO.	SUBD. LOT NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	AREA TO BE TAKEN	AREA TO REMAIN
** 130A(S)	55	MARIE REAM	4584	973	NONE	0.28 ACRES
** 130B(S)	36	FLOYD E. WELKER, ETUX	2858	285	NONE	0.26 ACRES
** 130C(S)	37	ROBERT JOHNSON AND WIFE IRENE	5463	739	NONE	0.24 ACRES
** 130D(S)	38	JAMES W. BRYANT	3761	133	NONE	0.22 ACRES
145	195	MRS. BERTHA JACO & HEIRS	1810	507	0.17 ACRES	NONE
146	196	J. E. SMITH & DOROTHY WHITELEY SMITH & HEIRS	982	110	0.17 ACRES	NONE
147	151-152 153	CHURCH OF THE FORESQUARE GOSPEL & ITS SUCCESSORS	3649	585	4028 S.F.	0.418 ACRES
148	197	MRS. L. C. HARRIS & HEIRS	2344	243	0.17 ACRES	NONE
149	198	MRS. CARRIE MILES & HEIRS	898	440	0.17 ACRES	NONE
150	199	OLIVER N. LEE & ALBERTA LEE & HEIRS	2443	445	3708 S.F.	3792 S.F.
151	154	FRED GILES & MARGARET O. JOLLY GILES & HEIRS	2689	123	238 S.F.	0.165 ACRES
152	8	JESSE W. JOHNSTONE SR. & TAFFY M. JOHNSTONE & HEIRS	3098	218	2204 S.F.	0.104 ACRES
153	9	EDGAR TURRENTINE & WILLOMINA TURRENTINE & HEIRS	2693	269	0.15 ACRES	NONE
154	10 11	COMER C. CRAVENS & MARGARET HOLDER CRAVENS & HEIRS	1082	696	0.31 ACRES	NONE
155	12	ELIZABETH KING & HEIRS	1283	631	0.15 ACRES	NONE
156	13	JOHN THOMAS GAMMON & BOBBY SUE GAMMON & HEIRS	1761	635	0.16 ACRES	NONE
157	14	MARY SHEED JONES & HEIRS	2860	325	0.18 ACRES	NONE
158	18	GEORGE W. MILLER & IRENE G. MILLER & HEIRS	2024	55	0.14 ACRES	NONE
159	20	COMER CROCKETT CRAVENS & MARGARET ELDERTA CRAVENS & HEIRS	2489	143	0.16 ACRES	NONE
160	22	ETTA T. FINCH & HEIRS	1538	443	0.16 ACRES	NONE
161A	24	JOHN T. LARKINS & ETHEL L. LARKINS	2735	555	0.16 ACRES	NONE
161B	26	D. S. STERRIE & JEAN STERRIE & HEIRS	2142	271	845 S.F.	0.131 ACRES
162A	25	ESTEL W. DUER & EVA DEAN DUER & HEIRS	1389	106	0.16 ACRES	NONE
162B	27	W. F. RADAR & GLADYS RADAR & HEIRS	3431	415	2424 S.F.	0.10 ACRES
163	23	ROBERT F. ROBERTS & DELIA MEELROY & HEIRS	3702	325	0.16 ACRES	NONE
164	21	C. F. CLARK & MOLLIE CLARK & HEIRS	3577	19	0.16 ACRES	NONE
165	19	FRANK W. CATHEY & FRANCES O. CATHEY & HEIRS	1036	323	0.16 ACRES	NONE
166	17	C. R. WHITE & MARY L. WHITE & HEIRS	3282	461	0.16 ACRES	NONE
167	15	C. E. SCOTT	1055	238	3338 S.F.	3632 SF
167A	16	C. E. SCOTT	3223	72	0.15 AC.	NONE

NOTE:
~~FOR PRESENT LAYOUT SEE SHEET NO. 48~~
FOR UTILITIES SEE SHEET NO. 67.

** TEMP. CONST. EASEMENT

PARCEL	FOR	SQUARE FEET
130(S)	R.R. DETOUR	3078 SQ. FT.
130A(S)		2957 SQ. FT.
130B(S)		2109 SQ. FT.
130C(S)		1261 SQ. FT.
130D(S)	R.R. DETOUR	419 SQ. FT.

STA. 429+00 TO STA. 444+00
PROPOSED R/W
BRIGHTON ENGINEERING CO.
SHEET 19 — I-440-4(33)211
SCALE: 1" = 50'
DATE: 8-17-64

SCANNED

PENN. STATE HIGHWAYS
P.R. DIV. 5 DIST. 10 CO. IN
219

PARCEL NO.	SUB LOT NO.	OWNER	DEED RECORD BOOK	PAGE	AREA TO BE TAKEN	AREA TO REMAIN
168	189-190 196-199	STATE OF TENNESSEE	2879	66	0.773 ACRES	3840 SQ.FT.
169	188	JOHN T. BAUGH & L.B. APPLE	4076	634	0.17 ACRES	NONE
170	187	MISS IRMA IRENE WALTERS & HEIRS	3339	138	859 S.F.	0.150 ACRES
171	176	ZEB L. WALKER & MARGARET B. WALKER & HEIRS	1339	485	0.100 ACRES	3068 S.F.
172	175	HOWARD T. MOORE & VINA MOORE & HEIRS	1562	618	0.17 ACRES	NONE
173	174	H.D. MARTIN, ETUX	2750	595	0.17 ACRES	NONE
174	173	LEXLIE E. TAYLOR & WILLADEAN TAYLOR & HEIRS	2467	25	0.17 ACRES	NONE
175	172	WILLIAM TAYLOR FISHER & ZELDRIS P. FISHER & HEIRS	2600	49	0.17 ACRES	NONE
176	171	J.G. BIGGERSTAFF SR.	4020	622	0.17 ACRES	NONE
177	169 170	J.H. GEORGE & GATIE GEORGE & HEIRS	1012	242	1773 S.F.	0.299 ACRES
178	23-24	WILLIAM K. FRAKES & WILLIE K. FRAKES & HEIRS	1264	309	0.37 ACRES	NONE
179	9	ROBERT A. McNEESE & EDNA K. McNEESE & HEIRS	2031	271	0.19 ACRES	NONE
180	10	HAROLD J. JARRATT	2908	259	0.21 ACRES	NONE
181	25	E.H. JONES & VIRGINIA TUCKER JONES & HEIRS	1290	72	4278 S.F.	3222 S.F.
182	26	CLARENCE PRESTON & MARTHA PRESTON & HEIRS	1562	220	3435 S.F.	4065 S.F.
183	27-28	M.T. STUBBLEFIELD & LOUISE STUBBLEFIELD & HEIRS	1815 1273	390 200	4345 S.F.	0.240 ACRES
184	29	R.G. SMOTHERMAN, ETUX	3891	223	910 S.F.	0.149 ACRES
185	30-31	ED W. PARIS & ALLIE PARIS & HEIRS			£780	£0.154
186	11	WOODBINE FREEWILL BAPTIST CHURCH	4124	977	3360 S.F.	0.133 ACRES
187	NOT	NEEDED				
188	C	Z.A. WILLS & ANNA BELLE WILLS & HEIRS	2030	397	0.347 ACRES	2745 S.F.
189	7	ROBERT E. FOX & LELIA S. FOX & HEIRS	1361 1088	62 316	0.356 ACRES	1478 S.F.
190	15	D.B. RUSSEL ETUX.	1023	184	0.05 ACRES	0.55 ACRES
191	183-4 16-17-18	J.D. HILL & DILLIE HILL & HEIRS	954	678	0.71 ACRES	0.36 ACRES(1)
192	NOT	NEEDED				
193	16	ROY B. HUNK	1968	367	0.35 ACRES	NONE
194	15	HOLLAND ALEXANDER RICHARDSON	1912	91	0.270 ACRES	3056 S.F.
195	14	BRYANT E. LANDIS, JR.	1876	123	3604 S.F.	0.267 ACRES
196	NOT	NEEDED				
197	TRACT #2	DOROTHY THONI & HEIRS	3166	483	0.51 ACRES	NONE
198	1	STATE OF TENNESSEE	2861	319	0.37 ACRES	NONE
* 206	NONE	HORRELL REFRIG., INC.	4178	393	54,250 S.F.	174,850 S.F.
190A	5-6	W.M. FLOYD, ETUX	1157	341	0.36 AC.	NONE
184A	30	W.C. THOMPSON	3768	469	142 S.F.	0.167 AC.
(1)	INCLUDES 3097 S.F. FOR EASEMENT					

UTILITY EASEMENT 575 S.F.

* NOTE: AREAS SHOWN FOR TR #206 INCLUDE 0.39 AC. AREA TO BE TAKEN AND 1.15 AC. AREA TO REMAIN WHICH IS WITHIN THE LEN CHARTERED R.O.W.

REV. 8-27-69: READJUSTED THE PROPOSED R.O.W., ACCESS CONTR. & FENCE ON TRACTS 184 & 184-A. ADDED UTILITY EASEMENT FOR TRACT NO. 184-A. ADJUSTED AREAS ACCORDINGLY.

REV. 9-5-69: CORRECTED ERRORS FOUND IN REVISION DATED 8-27-69.

REV. 6-17-70: ADDED LEN CHARTERED R.O.W., AND NOTE ON TRACT NO. 206 TO PLANS.

REV. 4-24-81: BERM ADDED TO FOX AVE. LT. STA. 444+00.

REV. 3-25-91: EXCESS LAND ON TRACT No. 206 CHANGED TO HORRELL REFRIGERATION, INC..

REV. 7-14-69: CORRECTED THE SYMBOLS FOR THE PROPOSED R.O.W. LINE @ RELOCATED GLENROSE AVE.

REV. 7-29-69: ADJUSTED THE R.O.W. ON EVELYN DR. NEAR MILLER, ADDED PROP. DRIVE ON TRACT NO. 184-A, RE-ASSIGNED TRACT NO. 185 TO PROPERTY EAST OF 184-A.

REV. 6-16-69: REVISED THE R.O.W. FOR LOUISVILLE & NASHVILLE RAILROAD, CORRECTED AREAS FOR PARCEL NO. 206, ALSO CHANGED OWNERS NAME FROM LOUIS THONI TO HORRELL REFRIGERATION.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-440-4(6) 209 R.O.W.	19 68	20	68

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-440-4(33)211	1981	13	

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44) 212	1981	7

REV. 4-17-68: OWNER CHANGED ON PARCEL 186; NAME CORR. ON PARCELS 195 & 206.
REV. 10-21-68: REMOVED THE WORD "PERMANENT" FROM THE EASEMENT AREA ON TRACT NO. 191, ADDED THE SO. ℄ ON TRACT NO. 178.
REV. 12-30-70; SLOPE LINES CORRECTED.

INDICATES EXCESS LAND TO HORRELL REFRIGERATION, INC..

STA. 444+00 TO STA. 457+00

PROPOSED R/W

BRIGHTON ENGINEERING CO. SHEET 20— 1-440-4(33)211

SCALE: 1"=50'

DATE: 9-11-64

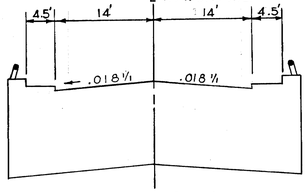
TENN. STATE HIGHWAYS
Plans | File | IN-
Divn. | No. | 307

NOTE : THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.000062 MUST BE USED TO DATUM ADJUST THESE COORDINATES.

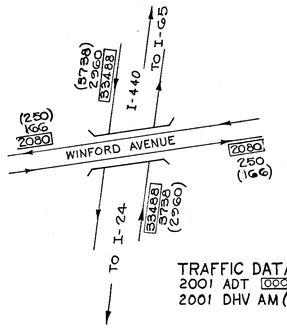
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
3	TENN	I-440-4(4)212	81	8	10

REV. 1-12-81; GRADE REVISED ON WINFORD AVE.

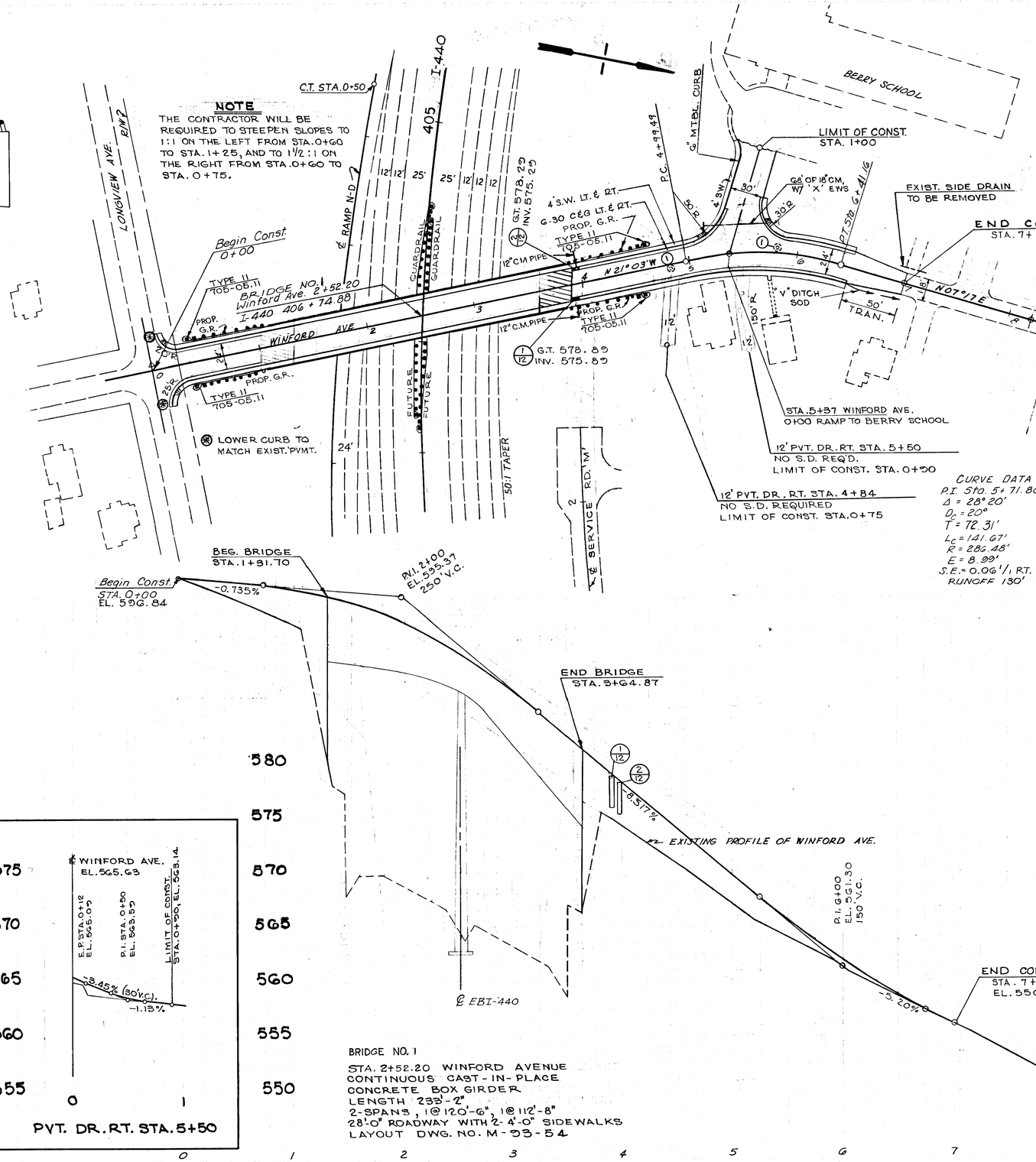
STATE	YEAR	SHEET NO.
TENN.	1968	35
PROJECT NO.	I-440-4(6)209	



BRIDGE SECTION
SHOWING CLEARANCE ON WINFORD AVE. OVER I-440 AT RIGHT ANGLES TO STA. 2+52.20 ON WINFORD AVE.

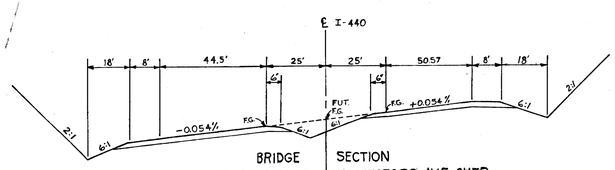


TRAFFIC DATA
2001 ADT 000
2001 DHV AM (PM)

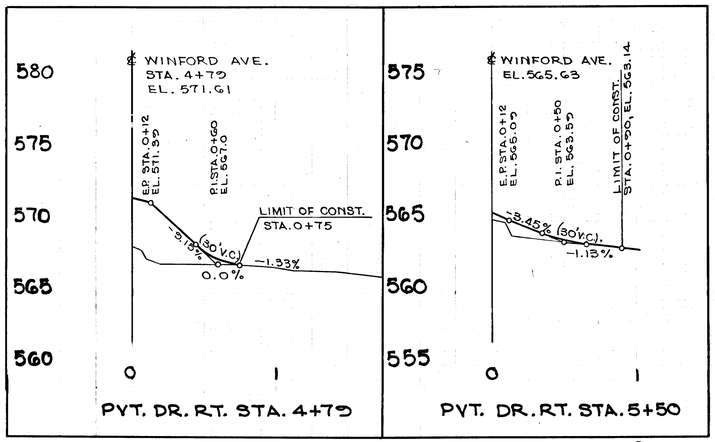


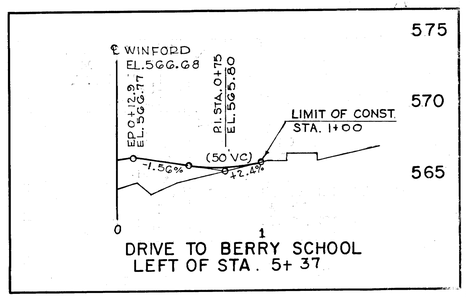
CURVE DATA
P.I. STA. 5+71.80
Δ = 28°20'
D_c = 20°
T = 72.31'
L_c = 141.67'
R = 286.48'
E = 8.99'
S.E. = 0.06'/ft. RT. 30 M.P.H. RUNOFF 130'

LEGEND
▨ ------ INDICATES HANDICAP RAMP REQUIRED
① EXIST. S.A. MANHOLE TO BE ADJUSTED.



BRIDGE SECTION
SHOWING CLEARANCE ON WINFORD AVE. OVER I-440 AT RIGHT ANGLES TO STA. 406+74.88 ON I-440.





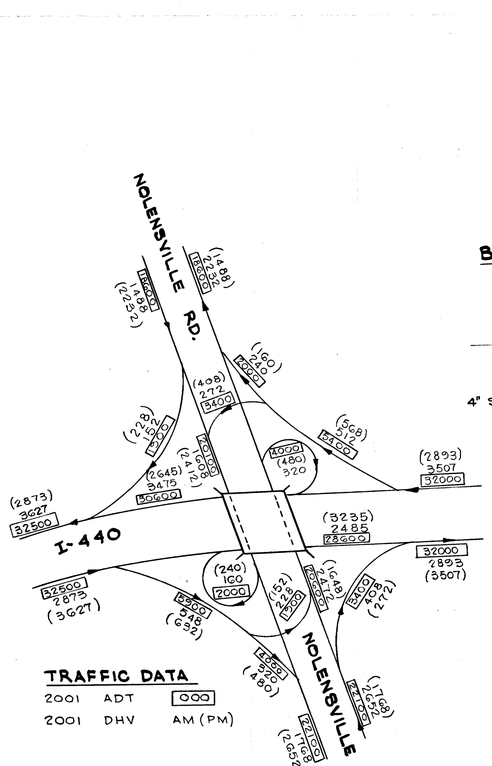
BRIDGE NO. 1
STA. 2+52.20 WINFORD AVENUE
CONTINUOUS CAST-IN-PLACE CONCRETE BOX GIRDER
LENGTH 233'-2"
2-SPANS, 1@120'-0", 1@112'-8"
28'-0" ROADWAY WITH 2-4'-0" SIDEWALKS
LAYOUT DWG. NO. M-33-54

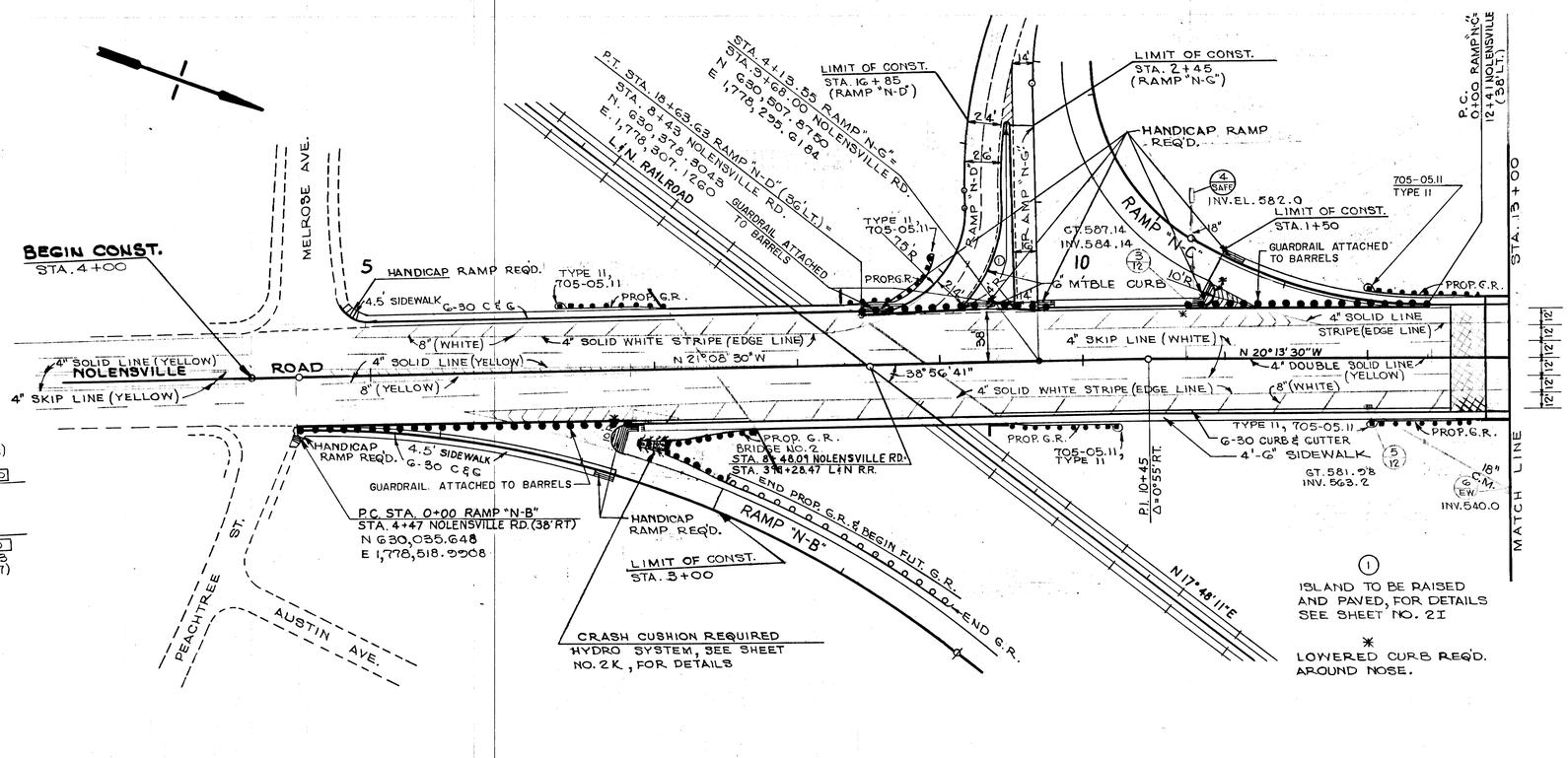
WINFORD AVENUE

TENN. STATE HIGHWAYS
File No. IN-309

BRIDGE 81 I-440-4(44)212

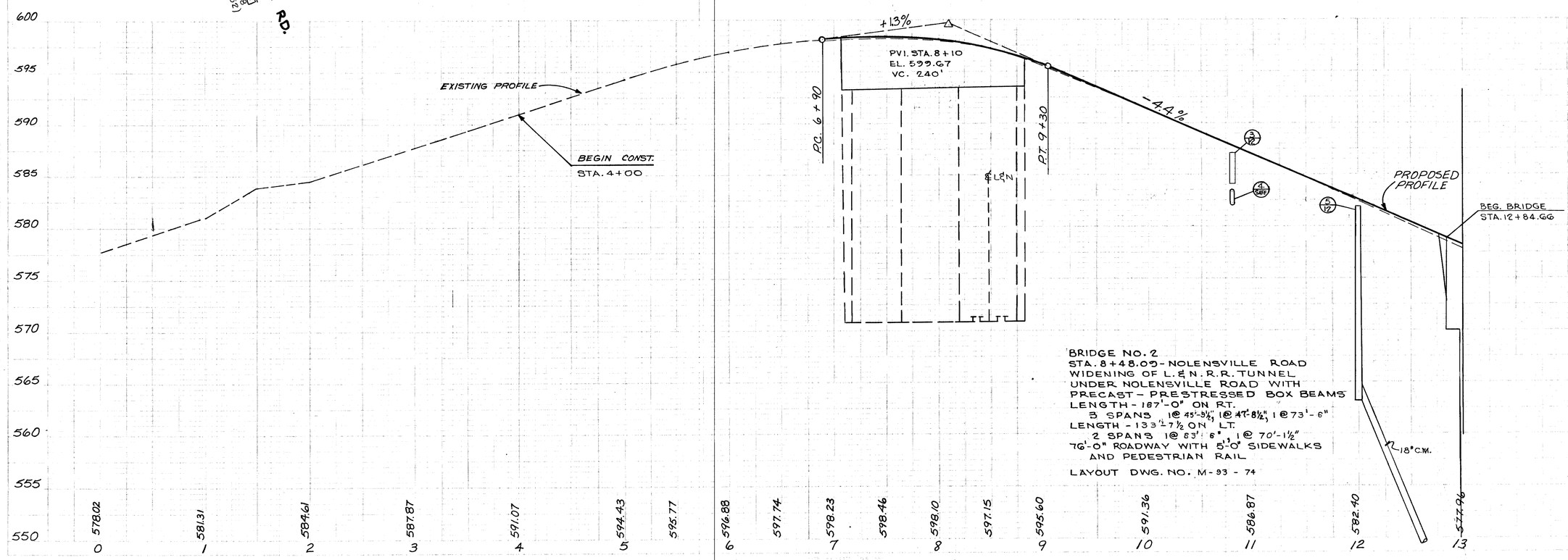
REV. 4-24-81: LABELING FOR HANDICAP RAMPS ADDED TO PLANS.





① ISLAND TO BE RAISED AND PAVED, FOR DETAILS SEE SHEET NO. 2I

✱ LOWERED CURB REQ'D. AROUND NOSE.



BRIDGE NO. 2
STA. 8+48.09 - NOLENSVILLE ROAD
WIDENING OF L. & N. R.R. TUNNEL
UNDER NOLENSVILLE ROAD WITH
PRECAST - PRESTRESSED BOX BEAMS
LENGTH - 187'-0" ON RT.
3 SPANS 1@ 45'-3½", 1@ 47'-8½", 1@ 73'-6"
LENGTH - 133'-7½" ON LT.
2 SPANS 1@ 63'-6", 1@ 70'-1½"
76'-0" ROADWAY WITH 5'-0" SIDEWALKS AND PEDESTRIAN RAIL
LAYOUT DWG. NO. M-93-74

NOTE: THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.0000602 MUST BE USED TO DATUM ADJUST THESE COORDINATES.

PROPOSED LAYOUT

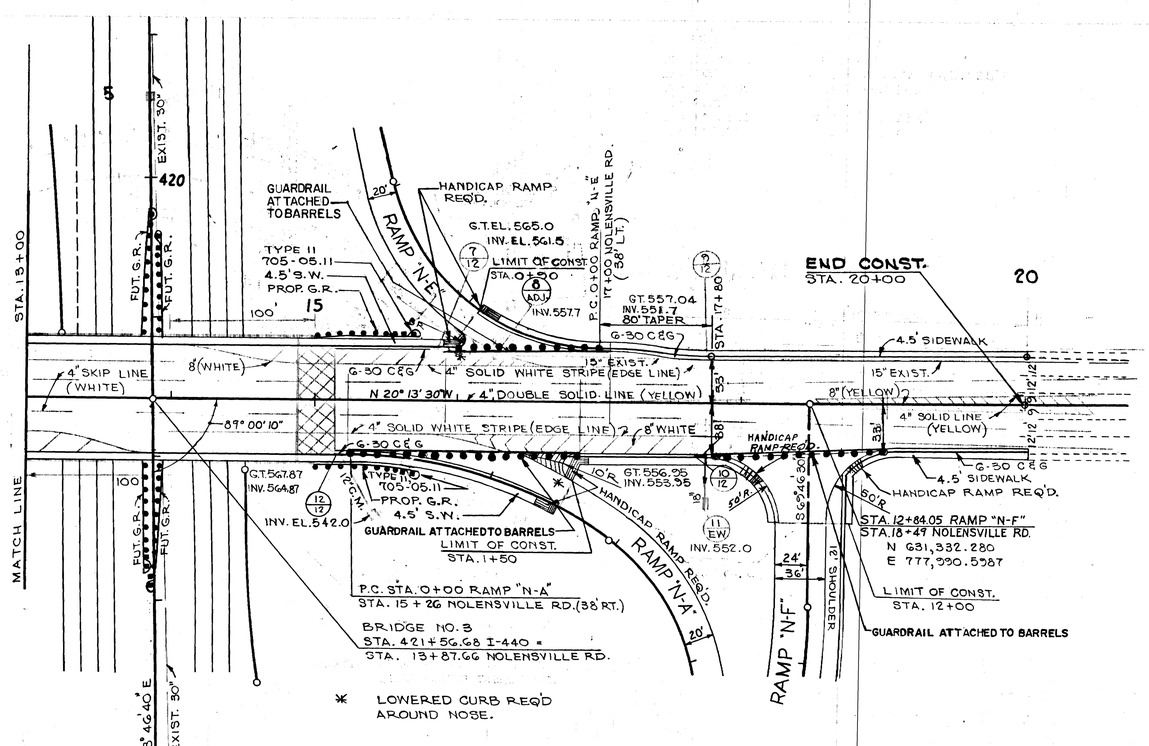
STA. 5+00 TO STA. 13+00

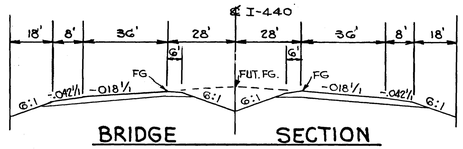
HORZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

TENN. STATE HIGHWAYS
Plans | File No. IN-
Divn. | 3 92

BRIDGE 81 I.440-4(44)212 10

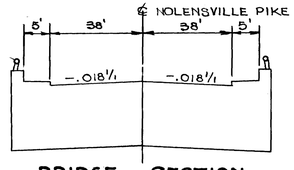
REV. 4-24-81: LABELING FOR HANDICAP RAMPS ADDED TO PLANS.





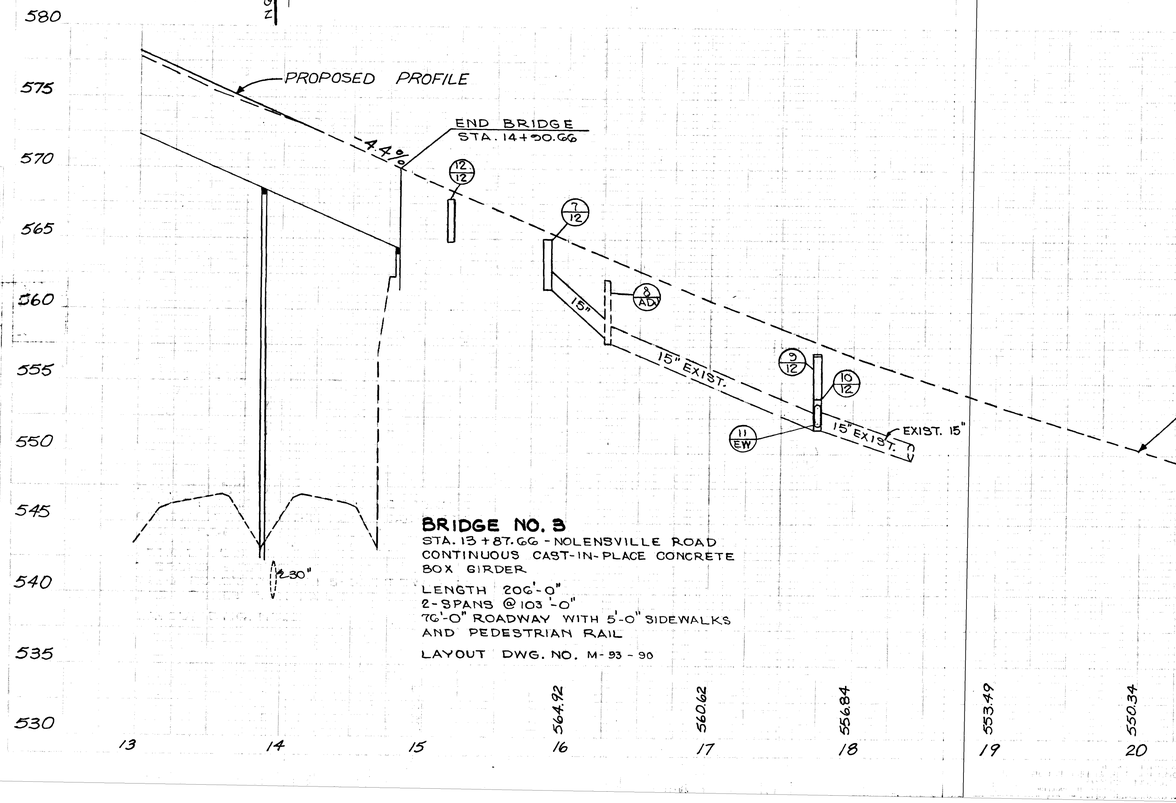
BRIDGE SECTION

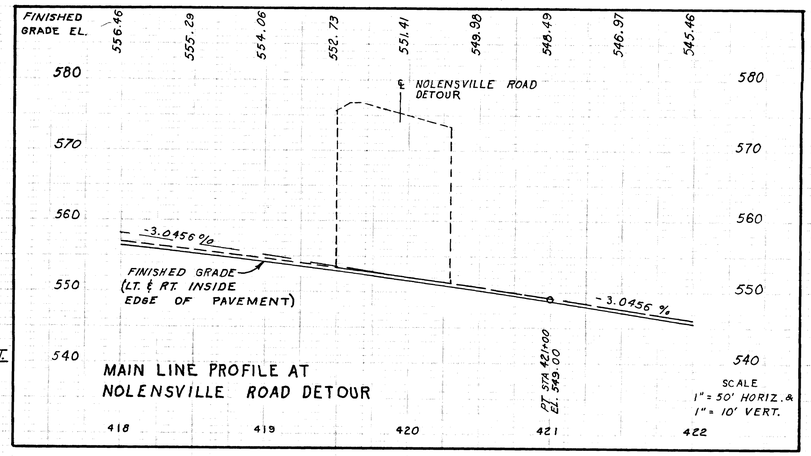
SHOWING CLEARANCE ON I-440 UNDER NOLENSVILLE PIKE AT RIGHT ANGLES TO STA. 421+56.68 ON I-440.



BRIDGE SECTION

SHOWING CLEARANCE ON NOLENSVILLE PIKE OVER I-440 AT RIGHT ANGLES TO STA. 13+87.66 NOLENSVILLE PIKE.





MAIN LINE PROFILE AT NOLENSVILLE ROAD DETOUR

NOTE: THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.000062 MUST BE USED TO DATUM ADJUST THESE COORDINATES.

PROPOSED LAYOUT

STA. 13+00 TO STA. 20+00

HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	1981	I-440-4(33)211	23B
BRIDGE	1981	I-440-4(44)212	10A

REV. 2-20-81: 18" C.M. PIPE ADDED AT STA. 4+20± AND STA. 6+12±.

REV. 4-24-81: REFERENCE "FOR INFORMATION ONLY" ADDED AT BOTTOM OF SHEET.

I-440-4(44)212

THIS SHEET FOR INFORMATION ONLY. IT SHOWS THE ITEMS TO BE REMOVED UNDER THIS PROJECT, THE GUARDRAIL, PAVEMENT, SIDEWALK, MARKERS, MULTI-PLATE STRUCTURE, 18" PIPES ETC.

630,200 1,778,000

630,600 1,777,600

630,800

631,200 1,777,400

MAIN LINE STA. 418+00

RAMP "N-C"

RAMP "N-E"

P.C. STA. 0+02.463

P.I. STA. 1+32.406

P.C. STA. 3+80.563

P.R.C. STA. 7+17.854

P.T. STA. 9+33.211

INV. 548.7

INV. 548.2

INV. 546.2

INV. 545.7

TEMPORARY STRUCTURE

PROP. 6'-3" GUARDRAIL

18" C.M.

5' PROP. SIDEWALK

6' PAVED SHOULDER

4" SOLID WHITE STRIPE (EDGE LINE)

N 55° 45' 52" W

NOLENSVILLE RD. DETOUR

4" DOUBLE SOLID LINE (YELLOW)

4" SKIP LINE (WHITE)

TYPE II 705-05-11

EXIST. SIDEWALK

EXISTING EDGELINE

5@12' EXISTING

N 21° 08' 30" W

N 20° 13' 30" W

STA. 3+00 NOLENSVILLE RD. = STA. 0+00 DETOUR

STA. 17+57.04 NOLENSVILLE RD. = STA. 9+33.211 DETOUR

STA. 421+56.68 I-440 = STA. 13+87.66 NOLENSVILLE RD.

℄ NOLENSVILLE RD.

℄ I-440

425

FOR PROFILE OF DETOUR ROAD SEE SHEET NO. 50.

NOLENSVILLE RD. DETOUR

①	②	③
P.I. = 0+68.459	P.I. = 5+74.568	P.I. = 8+31.435
Δ = 24° 41' 21"	Δ = 70° 49' 51"	Δ = 45° 13' 30"
D_c = 19°	D_c = 21°	D_c = 21°
R = 301.557	R = 272.838'	R = 272.837'
T = 65.996	T = 194.005'	T = 113.641'
L = 129.9437	L = 337.2905'	L = 215.357'
SE = 0.06 1/1	SE = 0.06 1/1	S.E. = 0.06 1/1
V = 30 M.P.H.	V = 30 M.P.H.	V = 30 M.P.H.

FOR PAVEMENT MARKING DETAILS SEE STD. DWG. NO. T-M-1, T-M-2.

FOR DETAILS OF RAISED REFLECTIVE PAVEMENT MARKERS, SEE STD. DWG. NO. T-M-7, T-M-9.

□ = TYPE 2 (CLEAR)
■ = TYPE 1 (YELLOW)

FOR INFORMATION ONLY
I-440-4(44)212

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

NOLENSVILLE ROAD DETOUR

SCALE: 1" = 40' HORIZ. & VERT.

BRUNING 29411

TENN. STATE HIGHWAYS
Plans Div. | File No. N-30

NOLENSVILLE ROAD INTERCHANGE RAMPS (CURVE DATA)

RAMP "N-A"

① P.I. = 1+00.773 ; Δ = 36°-01'-05" RT. ; Dc = 18.4825° ; R = 310' ; T = 100.773' ; L = 194.876'

② P.I. = ; Δ = 217°-53'-41" RT. ; Dc = 38.197° ; R = 150' ; T = ; L = 570.446'

③ P.I. = 7+36.451 ; Δ = 6°-50'-24" RT. ; Dc = 11° ; R = 520.871' ; T = 31.128' ; L = 62.183'

④ P.I. = 8+77.61 ; θs = 8°-15' RT. ; Ds = 11° ; L.T. = 100.109' ; S.T. = 50.099' ; L = 150'

c/c N 631,134.887 E 1,778,274.144 S.E. = 0.06 ft/ft FOR ENTIRE RAMP V = 30 M.P.H.

RAMP "N-B"

⑤ P.I. = 2+60.60 ; Δ = 39°-59'-22" RT. ; Dc = 8° ; R = 716.197' ; T = 260.6' ; L = 499.868' ; S.E. = 0.056 ft/ft ; V = 40 M.P.H.

⑥ P.I. = 7+00.512 ; Δ = 19°-51'-47" RT. ; Dc = 5° ; R = 1145.916' ; T = 200.644' ; L = 397.262' ; S.E. = 0.056 ft/ft ; V = 50 M.P.H.

⑦ P.I. = 11+15.017 ; Δc = 33°-50'-33" RT. ; Dc = 8° ; R = 716.197' ; T = 217.887' ; L = 423.031' ; S.E. = 0.056 ft/ft ; V = 40 M.P.H.

⑧ P.I. = 13+70.213 ; θs = 6° RT. ; Ds = 8° ; L.T. = 100.058' ; S.T. = 50.052' ; L = 150' ; S.E. = ; V =

RAMP "N-C"

⑨ P.I. = 0+89.831 ; Δ = 32°-02'-52" RT. ; Dc = 18.483° ; R = 310' ; T = 89.031' ; L = 173.395' *

⑩ P.I. = ; Δ = 222°-31'-54" RT. ; Dc = 38.197° ; R = 150' ; T = ; L = 582.587' *

⑪ P.I. = 7+85.597 ; Δ = 6°-21'-39" RT. ; Dc = 10.75' ; R = 532.984' ; T = 29.6155' ; L = 59.170' *

⑫ P.I. = 8+65.247 ; θs = 8°-03'-45" RT. ; Ds = 10.75' ; L.T. = 100.104' ; S.T. = 50.095' ; L = 150'

c/c N 630,610.519 * E 1,778,030.151 S.E. FOR ALL CURVES = 0.06 ft/ft V = 30 M.P.H.

RAMP "N-D"

⑬ P.I. = 3+26.916 ; Δ = 16°-30' LT. ; Dc = 3° ; R = 1909.859' ; T = 276.916' ; L = 550' ; S.E. = 0.044 ft/ft ; V = 50 M.P.H.

⑭ P.I. = 9+60.137 ; θs = 6°-11'-15" RT. ; Ds = 8.25° ; L.T. = 100.062' ; S.T. = 50.056' ; L = 150'

⑮ P.I. = 12+20.07 ; Δ = 33°-38'-50" RT. ; Dc = 8.25' ; R = 694.495' ; T = 209.993' ; L = 407.845' ; S.E. = 0.06 ft/ft ; V = 45 M.P.H.

⑯ P.I. = 14+50.84 ; Δ = 6°-34'-33" LT. ; Dc = 10° ; R = 572.958' ; T = 32.917' ; L = 65.761' ; S.E. = 0.06 ft/ft ; V = 40 M.P.H.

⑰ P.I. = 16+13.95 ; Δ = 39°-58'-46" LT. ; Dc = 16° ; R = 358.099' ; T = 130.265' ; L = 249.873' ; S.E. = 0.06 ft/ft ; V = 30 M.P.H.

⑱ P.I. = 18+20.82 ; Δ = 90° RT. ; Dc = 76°-23'-39" ; R = 75.0' ; T = 75.0' ; L = 117.810' ; S.E. = 0.06 ft/ft

RAMP "N-E"

⑲ P.I. = 1+19.758 ; Δ = 77°-12'-24" RT. ; Dc = 38.197' ; R = 150' ; T = 119.758' ; L = 202.127' ; S.E. = 0.06 ft/ft ; V = 30 M.P.H.

⑳ P.I. = 5+40.17 ; θs = 5°-19'-31" RT. ; Ds = 6.5° ; L.T. = 109.284' ; S.T. = 54.662' ; L = 163.851' ; S.E. = 0.06 ft/ft ; V = 50 M.P.H.

㉑ P.I. = 6+49.40 ; θs = 5°-19'-31" RT. ; Ds = 6.5° ; L.T. = 109.284' ; S.T. = 54.662' ; L = 163.851' ; S.E. = 0.06 ft/ft ; V = 50 M.P.H.

RAMP "N-F"

㉒ P.I. = 2+89.947 ; θs = 6° RT. ; Ds = 8° ; L.T. = 100.058' ; S.T. = 50.052' ; L = 150'

㉓ P.I. = 4+40.463 ; Δ = 15°-59'-14" RT. ; Dc = 8° ; R = 716.197' ; T = 100.574' ; L = 199.840' ; S.E. = 0.06 ft/ft ; V = 45 M.P.H.

㉔ P.I. = 5+89.781 ; θs = 6° RT. ; Ds = 8° ; L.T. = 100.058' ; S.T. = 50.052' ; L = 150'

㉕ P.I. = 9+05.344 ; θs = 12° LT. ; Ds = 16° ; L.T. = 100.231' ; S.T. = 50.21' ; L = 150'

㉖ P.I. = 10+49.514 ; Δ = 29°-32'-11" LT. ; Dc = 16° ; R = 358.099' ; T = 94.401' ; L = 184.602' ; S.E. = 0.058 ft/ft ; V = 30 M.P.H.

RAMP "N-G"

㉗ P.I. = 0+32.92 ; Δ = 6°-34'-33" LT. ; Dc = 10° ; R = 572.958' ; T = 32.917' ; L = 65.761' ; S.E. = 0.06 ft/ft ; V = 40 M.P.H.

㉘ P.I. = 1+43.89 ; Δ = 39°-58'-47" LT. ; Dc = 26°-40'-33" ; R = 214.784' ; T = 78.132' ; L = 149.872' ; S.E. = 0.06 ft/ft ; V = 30 M.P.H.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	1981	I-440-4(33)211	23A
BRIDGE	1981	I-440-4(44)212	10B

I-440-4(44)212

FOR INFORMATION ONLY

NOTE: THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.0000602 MUST BE USED TO DATUM ADJUST THESE COORDINATES.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

CURVE DATA FOR NOLENSVILLE ROAD INTERCHANGE RAMPS

SCANNED

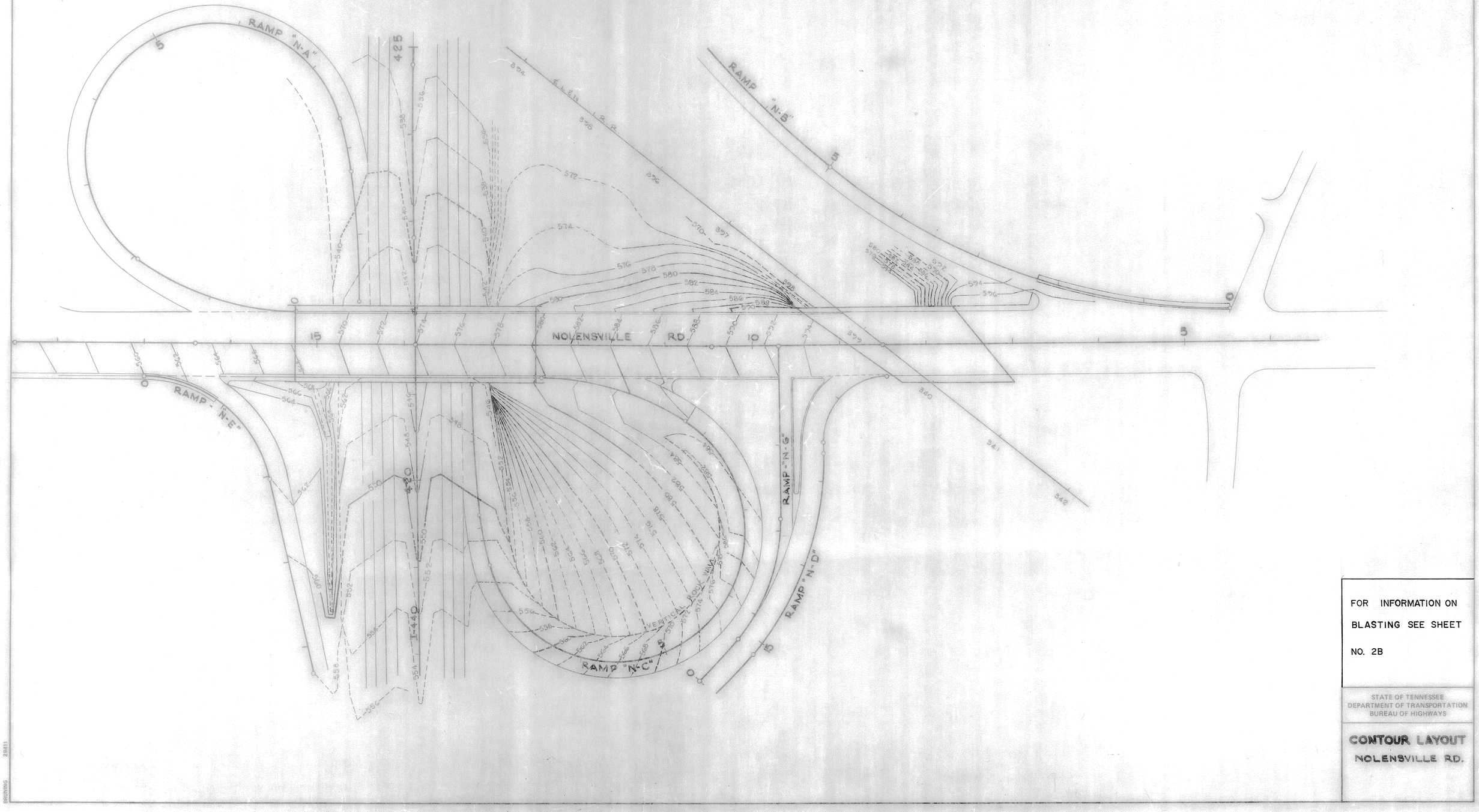
29411
BRUNING

TENN. STATE HIGHWAYS
Plans Div. | File No. IN-308

SCANNED

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)212	10C

REVISION: 6-8-81; THIS SHEET ADDED TO PLANS.



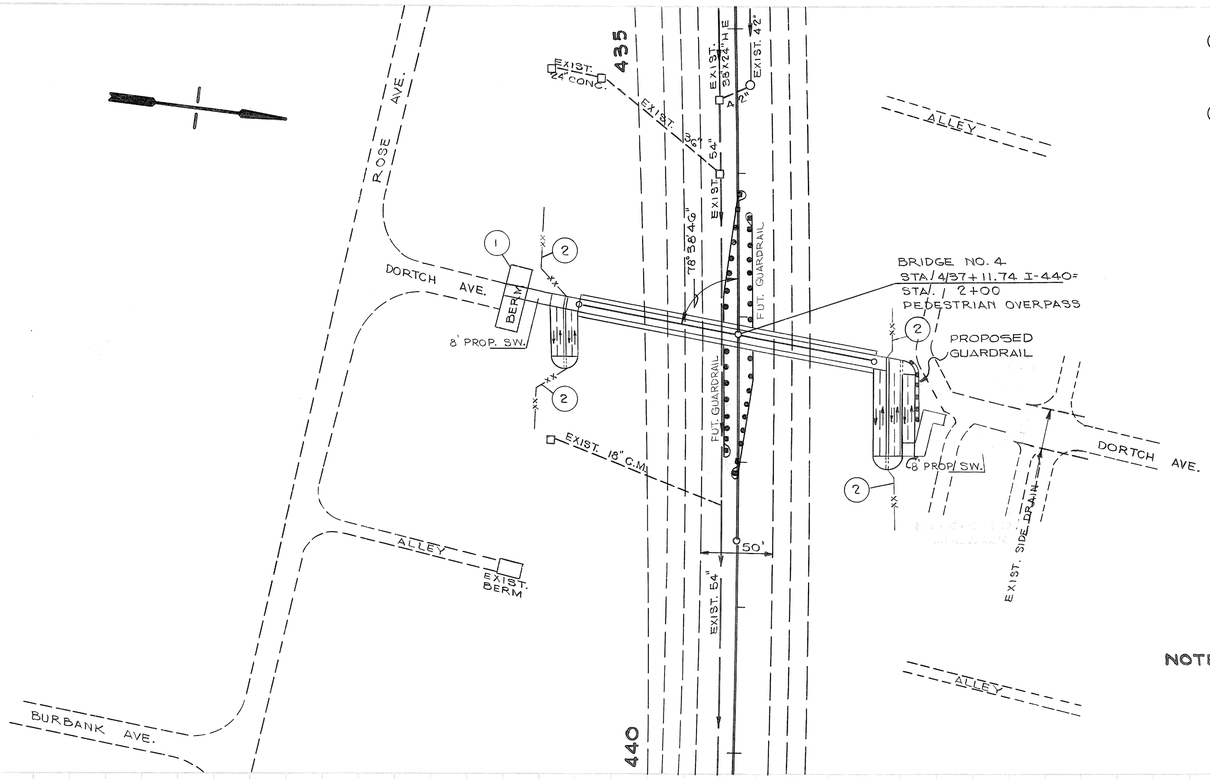
FOR INFORMATION ON BLASTING SEE SHEET NO. 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

CONTOUR LAYOUT
NOLENSVILLE RD.

BRUNING 23811

STATE HIGHWAYS
Dept. File No.
Divn.
SCANNED



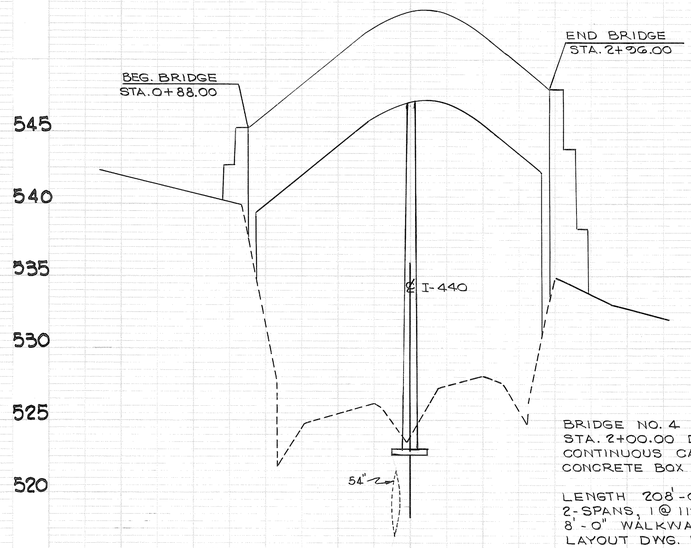
① EXISTING BERM TO BE REGARDED IN CONJUNCTION WITH INSTALLATION OF 8' SIDEWALK COST TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION. (APPLIES TO SOUTH SIDE ONLY.)

② FENCE INSTALLED UNDER PROJ. I-440-4(33)211 MAY HAVE TO BE ADJUSTED AND TIED INTO OVERPASS COST TO BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	81	I-440-4(44)212	11

REV. 10-24-85: REVISED PEDESTRIAN OVERPASS S.W. REMOVED BERM. CORRECTED DRIVEWAYS, AND ADDED PROPOSED GUARDRAIL ON DORTCH AVE. REVISED SPECIAL NOTE ①.

NOTE: THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.0000602 MUST BE USED TO DATUM ADJUST THESE COORDINATES.



BRIDGE NO. 4
STA. 2+00.00 DORTCH AVE. PEDESTRIAN OVERPASS
CONTINUOUS CAST-IN-PLACE
CONCRETE BOX GIRDER

LENGTH 208'-0"
2-SPANS, 1 @ 112'-0", 1 @ 96'-0"
8'-0" WALKWAY
LAYOUT DWG. NO. M-93-103

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

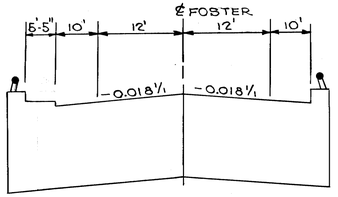
PROPOSED LAYOUT

DORTCH AVENUE PEDESTRIAN OVERPASS

SCALE: 1" = 50'

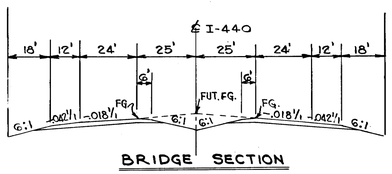
TENN. STATE HIGHWAYS
Plans | File No. IN-328

FED. ROAD DIST. NO.	TENN	FEDERAL AID PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
3	TENN	I-440-4(44)212	81	12	



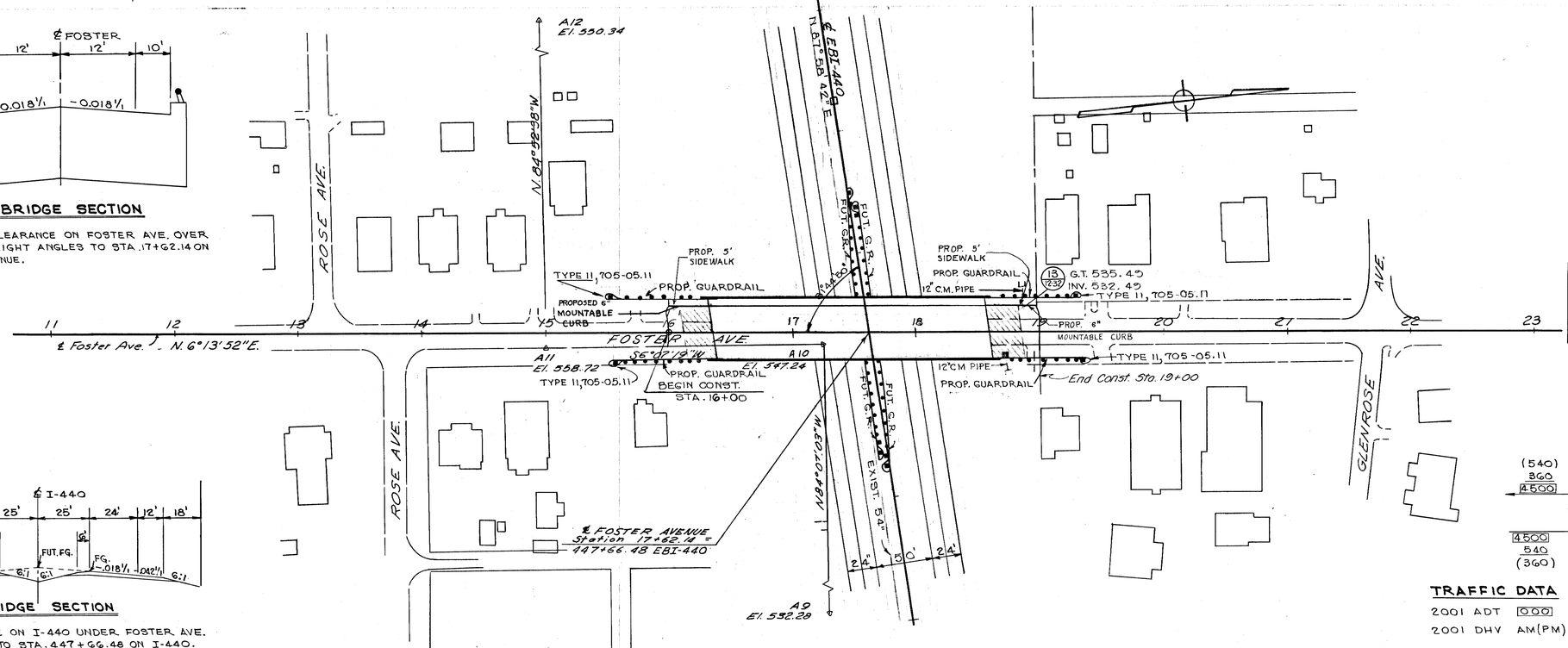
BRIDGE SECTION

SHOWING CLEARANCE ON FOSTER AVE. OVER I-440 AT RIGHT ANGLES TO STA. 17+62.14 ON FOSTER AVENUE.

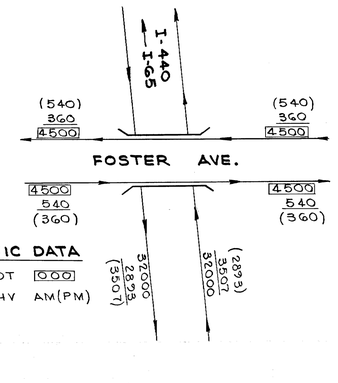


BRIDGE SECTION

SHOWING CLEARANCE ON I-440 UNDER FOSTER AVE. AT RIGHT ANGLES TO STA. 447+66.48 ON I-440.



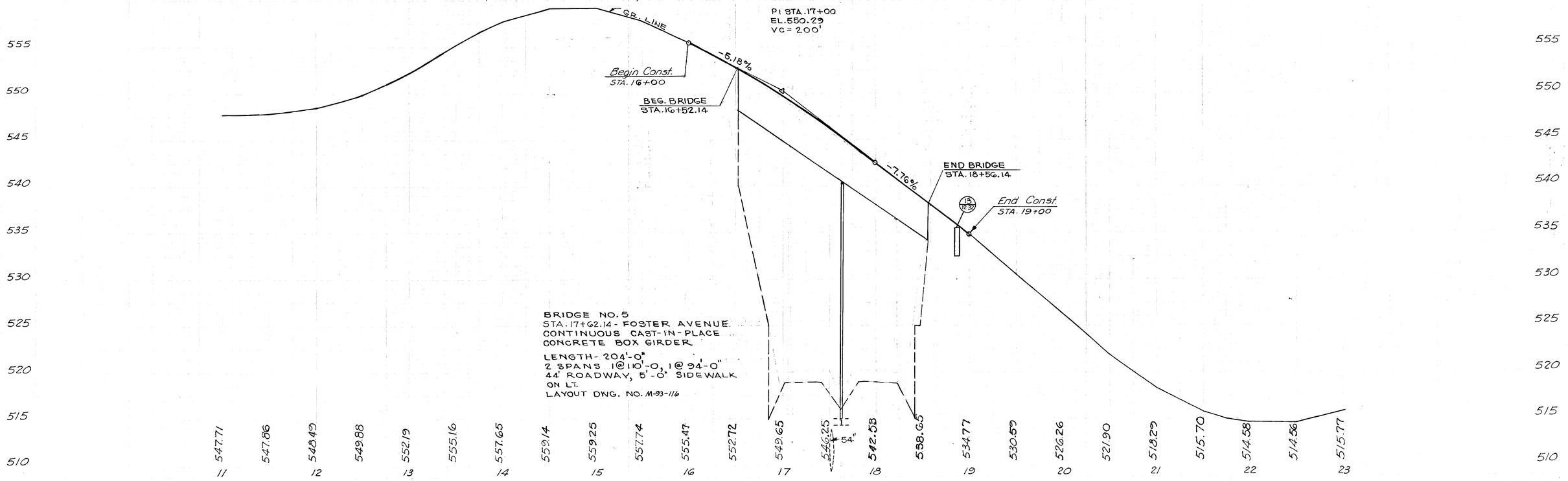
NOTE: THE COORDINATES ARE NOT DATUM ADJUSTED. A FACTOR OF 1.000062 MUST BE USED TO DATUM ADJUST THESE COORDINATES.



TRAFFIC DATA

2001 ADT 000

2001 DHV AM(PM)



TENN. STATE HIGHWAYS
Plans | File IN
Divis. | No. A

| | | |

TENN. STATE HIGHWAYS
FILE IN
305
SCANNED

PROJECT NO.	YEAR	SHEET NO.
I-440-4(33)211	1981	45

PROJECT NO.	YEAR	SHEET NO.
I-440-4(44)212	1981	13A

PROJECT NO.	YEAR	SHEET NO.
I-440-4(55)211	1983	70

	0		1		2		3		4		5		6		7		8		9		10		11		12		13		14
LEFT EDGE PVMT. ELEV.	596.21	596.31	596.27	596.10	595.79	595.50	594.92	593.80	592.76	591.58	590.24	588.74	587.08	585.26	583.27	579.13	574.99	570.85	566.71	562.57	558.43	554.29	550.15	546.01	544.00	542.12	540.36	538.73	537.22	535.84	534.58	533.45	532.44	531.56	530.80	530.17	529.66	529.27	529.02	528.82	528.55	528.28	528.11
RIGHT EDGE PVMT. ELEV.	592.00	592.87	593.65	594.35	594.85	595.20	595.40	595.53	595.45	595.29	594.93	594.41	593.72	592.87	591.86	590.69	589.35	587.85	586.18	584.36	582.37	578.23	574.09	569.95	565.81	561.67	557.53	553.39	549.25	545.11	543.10	541.22	539.46	537.83	536.32	534.94	533.68	532.55	531.54	530.66	529.90	529.27	528.76	528.38	528.12	527.99	527.85	527.71	(14+88.25)=527.59 (432+50)	(432+75)= 527.46	(433+00)= 527.29	(433+25)= 527.14	(433+50)= 526.99
		+25		+50		+75		+25		+50		+75		+25		+50		+75		+25		+50		+75		+25		+50		+75		+25		+50		+75		+25		+50		+75		+25		+50		+50						

GRAPHICAL GRADE

GRADING LIMIT STA. 2+25

EDGE MEET +45 EL. 596.14

+0.836%

I-440-4(44)212 LIMIT OF PAVING STA. 3+00

I-440-4(55)211 BEG. PAVING STA. 3+00

P.C. 1+50 EL. 595.40

P.I. 3+25 EL. 596.86 350' VC.

-6.28%

LEFT EDGE PVMT.

P.T. 5+00 EL. 592.37

RIGHT EDGE PVMT.

P.C. 9+50 EL. 545.11

P.I. 11+50 EL. 528.55 400' VC.

GR. LINE

P.T. 13+50 EL. 527.99

-0.281%

STA. 14+88.25 RAMP "N-B" = STA. 432+50 I-440

REV. 4-24-81: GRADING LIMIT ADDED TO RAMP "N-B".

600 595 590 585 580 575 570 565 560 555 550 545 540 535 530 525

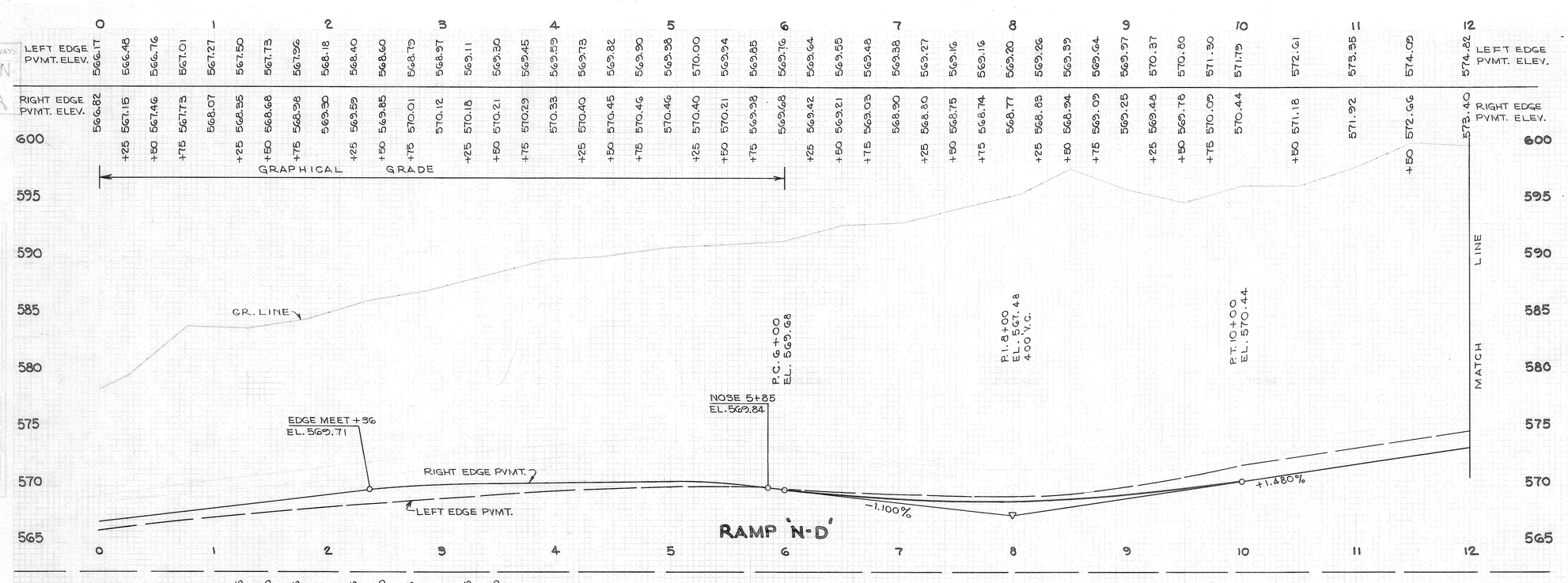
RAMP "N-B"

SCALE { 1" = 5' VERT. 1" = 50' HOR.

RAMP "N-B" @ NOLENSVILLE RD. & I-440 INTERCHANGE

CONST.	1981	I-440-4(33)211	46
BRIDGE	1981	I-440-4(44)212	138
PAVING	1983	I-440-4(55)211	71

REV. 4-24-81: GRADING LIMIT ADDED TO RAMP 'N-D'.



PROFILE
RAMP 'N-D'

TENN. STATE HIGHWAYS
FILE IN
DIST 1 32

SCANNED

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	1981	I-440-4(33)211	47
BRIDGE	1981	I-440-4(44)212	13C
PAVING	1983	I-440-4(55)211	72

REV. 2-20-81, GRADING LIMITS OF L&N. R.R. RUNAROUND REVISED.

REV. 4-24-81: GRADING LIMIT ADDED TO RAMP "N-F".

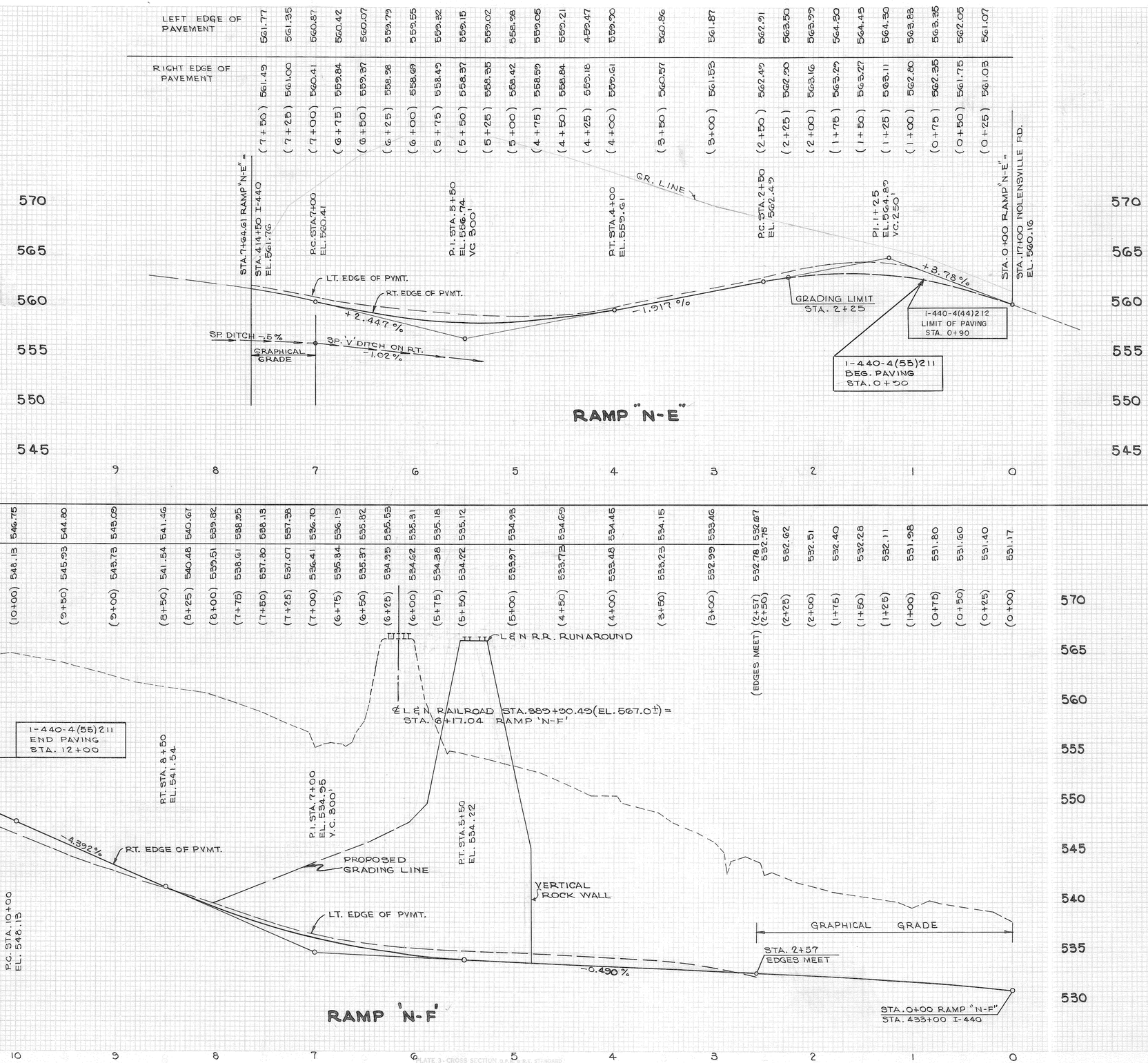


PLATE 3 - CROSS SECTION & PROFILE R.F. STANDARD

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS

PROFILES

RAMP "N-E"
RAMP "N-F"

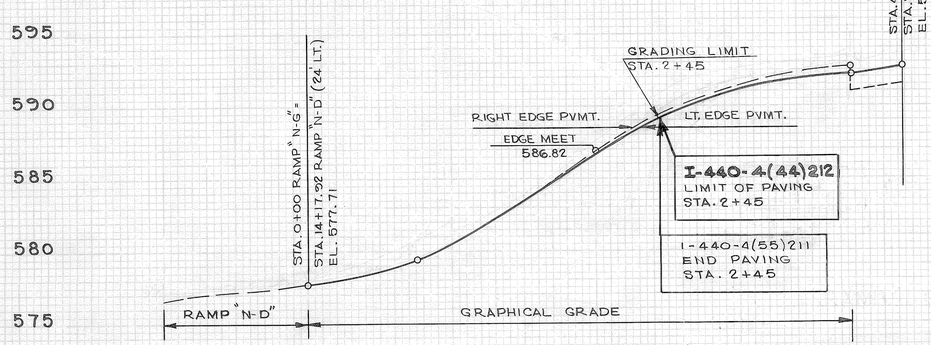
TENN. STATE HIGHWAYS
Plans File IN-
Div. No. 304

SCANNED

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	1981	I-440-4(55)211	48
BRIDGE	1981	I-440-4(44)212	13D
PAVING	1983	I-440-4(55)211	73

REV. 4-24-81: GRADING LIMIT ADDED TO RAMP "N-G".

	(0+00)	(0+25)	(0+50)	(0+65.76)	(0+75)	(1+00)	(1+25)	(1+50)	(1+75)	(2+00)	(2+25)	(2+50)	(2+75)	(3+00)	(3+25)	(3+50)	(3+75)	STA. 4+13.55 RAMP "N-G" = STA. 3+46.8 NOLENSVILLE RD. EL. 592.72
LEFT EDGE OF PAVEMENT	577.71	578.10	578.60	579.01	579.35	580.59	581.99	583.50	585.15	586.69	588.14	589.32	590.30	591.18	591.73	592.01	592.08	
RIGHT EDGE OF PAVEMENT				579.01	579.35	580.59	581.99	583.52	585.30	586.82	588.34	589.61	590.60	591.41	592.06	592.47	592.65	



STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS

PROFILE

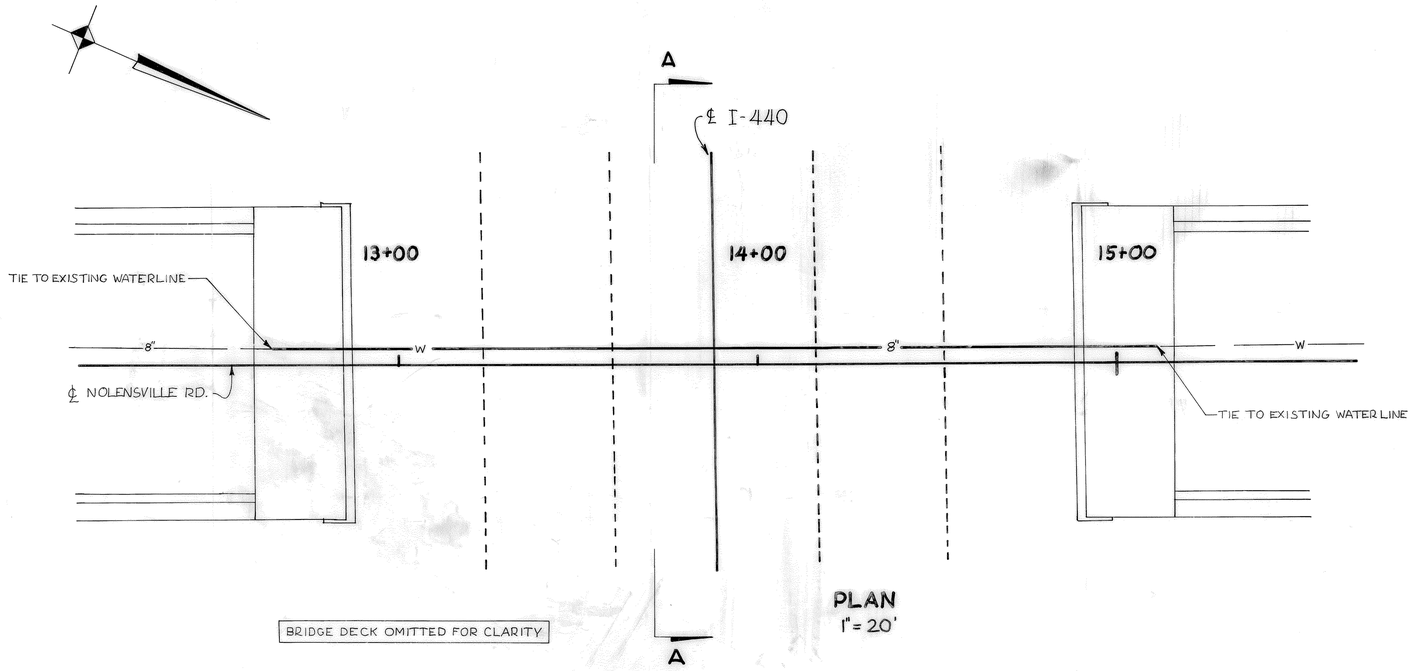
RAMP "N-G"

TENN. STATE HIGHWAYS
Plans File No.
Bm. 30

SCANNED

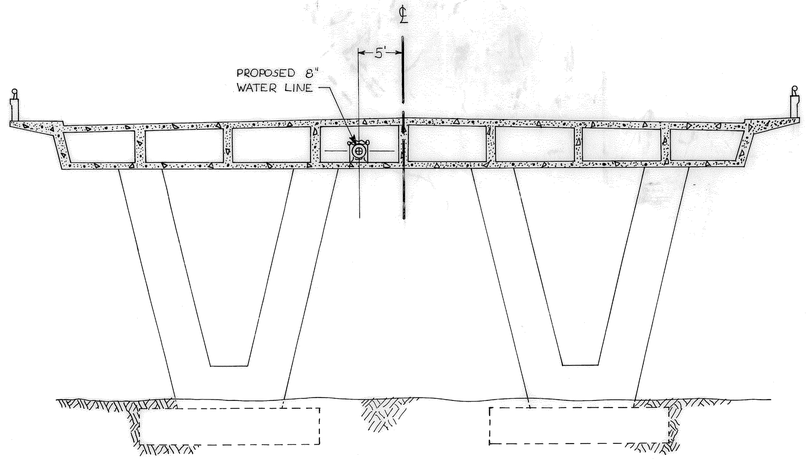
TYPE	YEAR	PROJECT NO.	SHEET NO.
BRIDGE	1981	I-440-4(44)22	14

REVISED: 4/29/81; THIS SHEET ADDED TO PLANS TO REPLACE OLD SHEET NO. 14.



BRIDGE DECK OMITTED FOR CLARITY

PLAN
1" = 20'



SECTION A-A (TYPICAL) SHOWING
PROPOSED 8" WATER LINE
1" = 8'

NOTE ~ ALL INFORMATION ON THIS SHEET FROM PLANS SUBMITTED TO D.O.T. BY MR. RICK MAYO OF CONSOER, TOWNSEND & ASSOCIATES, CONSULTING ENGINEERS, FOR METRO WATER & SEWERAGE DEPT. NASHVILLE TN. FOR ADDITIONAL INFORMATION OR DETAILS, PLEASE CONTACT THESE PARTIES.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

PROPOSED WATER LINE
NOLENSVILLE ROAD BRIDGE

BRUNING 29411

BRIDGE 1981 I-440-4(44)212 95

PROFILE WINFORD AVE