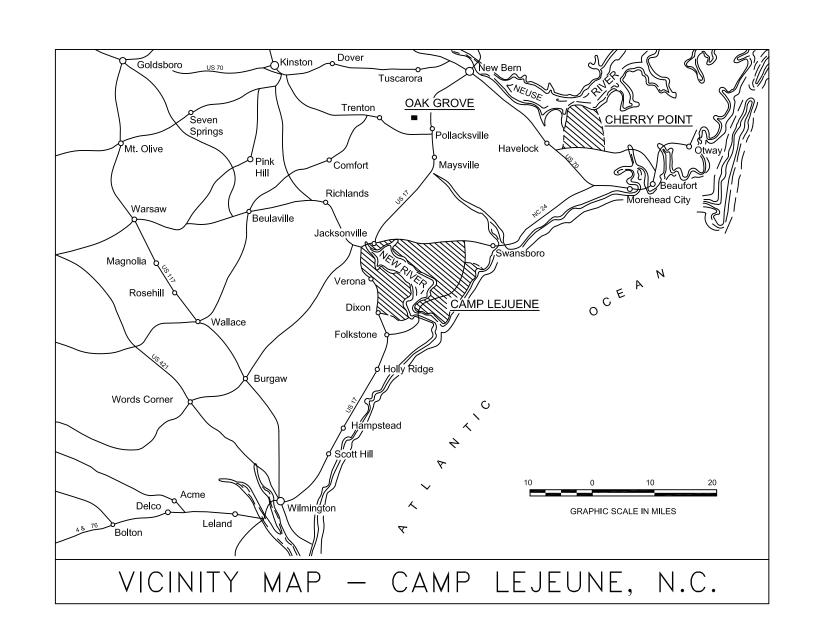
DATE	REVISION	DESCRIPTION





21-0027 REPAIR RAILROAD CROSSINGS ON PUBLIC ROADS



DRAWING INDEX				
NAVFAC DWG NO. SHEET NO.		TITLE		
60035486	T001	TITLE PAGE		
60035487	CO01	SCOPE OF WORK		
60035488	C101	SITE PLAN — NC HIGHWAY 24		
60035489	C102	SITE PLAN — RIGGS ROAD		
60035490	C103	SITE PLAN — MORRISTOWN ROAD		

DISCLOSURE OF INFORMATION			
CONTRACTOR SHALL COMPLY AS FOLLOWS:		T001	
(A) THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE,			
DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
(1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR		MARINE CORPS BASE	
(2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.		CAMP LEJEUNE, NORTH CAROLINA	
(B) REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED,	DES. DD ZIMBELMAN	,	
THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED	DR. DD ZIMBELMAN	21-0027	
DATE FOR RELEASE.	CHK. JP REED, PE	REPAIR RAIL ROAD CROSSING	
(C) THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT	SUBMITTED BY: DD ZIMBELMAN	ON PUBLIC ROADS	
UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.	DESIGN DIR. T. BURTON, PE	TITLE PAGE	
RELEASE THROUGH THE FRIME CONTRACTOR TO THE CONTRACTING OF ICER.	DATE:	SIZE CODE IDENT NO. PWO DRAWING NO.	
	08/20/2021		
		E180091 CONST. CONTR. NO.N40085-21-B-0027	
		SCALE: AS SHOWN SPEC. 05-21-0027 SHEET 1 OF 5	

SCOPE OF WORK

THIS PROJECT WILL MAKE REPAIRS THE RAIL ROAD CROSSING AT THREE PUBLIC ROADS: NC HIGHWAY 24, RIGGS ROAD AND MORRISTOWN ROAD.

- REMOVE EXISTING RAIL FROM NEAREST JOINT OF TRACK SECTION TO THE ROADWAY. PROTECT AND REINSTALL. RAIL REMOVED WILL BE REUSED. 2. REMOVE COMPONENTS OF EXISTING RAIL ROAD CROSSING INCLUDING TIES AND CONCRETE PANELS. SAW CUT ASPHALT PAVEMENT A MINIMUM OF 10 FEET FROM THE CENTERLINE OF THE RAIL ROAD TRACK.
- 3. ENSURE A NORFOLK SOUTHERN 9 INCH SUB-BALLAST UNDER FULL WIDTH AND LENGTH OF CROSSING
- 4. INSTALL NEW 9 INCH THICK NORFOLK SOUTHERN BALLAST SECTION. INSTALL NEW 7" x 9" x 8' 6" WOODEN TIES. INSTALL NEW TIE PLATES AND SPIKES. REUSE AND REINSTALL EXISTING RAIL.
- 5. INSTALL NEW RUBBER FLANGE WAY PER NORFOLK SOUTHERN HIGHWAY GRADE CROSSING DETAIL PLAN 7-5B.
- 6. REPAVE ROADWAY WITH 1.5 INCH SURFACE COURSE OF S9.5C ASPHALT OVER A 2.5 INCH INTERMEDIATE COURSE OF I19.0C ASPHALT OVER A 3 INCH BASE COURSE OF B25.0C ASPHALT OVER 8 INCH COMPACTED AGGREGATE BASE COURSE. THE SURFACE OF THE ASPHALT PAVING SHALL BE RAISED 🖁
- ABOVE THE TOP OF THE RUBBER FLANGE FOR THE WIDTH OF THE HIGHWAY. CROWN ROADWAY FOR POSITIVE DRAINAGE. 7. MATCH EXISTING HIGHWAY PAVEMENT ELEVATIONS AND GRADE. MATCH EXISTING RAILROAD ELEVATION AND GRADE.
- 8. REMARK NEW PAVEMENT. MATCH EXISTING PAVEMENT MARKS.

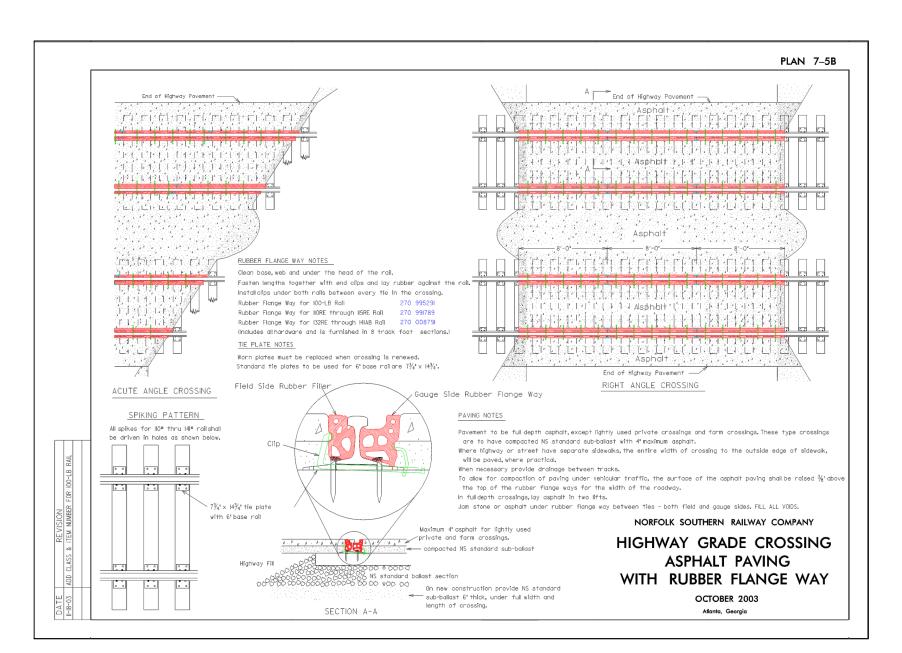
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL ROAD CLOSURES. ROAD CLOSURES WILL BE IN ACCORDANCE WITH THE MUCTD. CONTRACTOR IS PERMITTED TO SHUT DOWN EITHER THE EAST BOUND OR WEST BOUND OF NC HIGHWAY 24 BUT NOT BOTH AT THE SAME TIME. CONTRACTOR SHALL DIVERT TRAFFIC ONTO THE OPPOSITE SIDE OF THE NC HIGHWAY 24 IN ACCORDANCE WITH MUCTD. CONTRACTOR MAY HAVE THE ENTIRE ROADWAY AT RIGGS ROAD AND MORRISTOWN ROAD. CONTRACTOR IS RESPONSIBLE FOR ALL SIGNAGE AND TEMPORARY TRAFFIC CONTROL MEASURES 2. CONTRACTOR SHALL COMPLETE ALL WORK AT NC HIGHWAY 24 (BOTH LANES) IN A CONTINUOUS FOUR WEEK PERIOD. CONTRACTOR IS AUTHORIZED

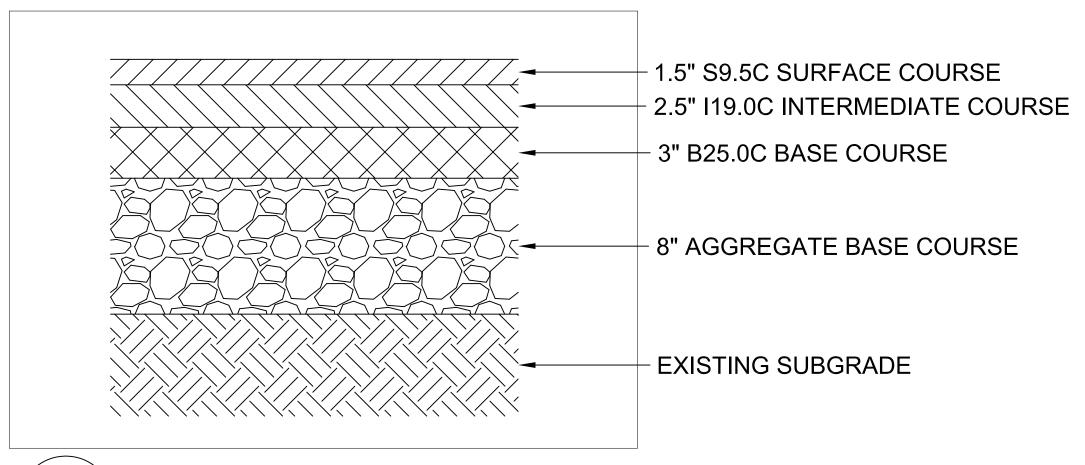
- TO WORK MULTIPLE SHIFTS, OVERTIME, NIGHTS AND WEEKENDS TO ACCOMPLISH WORK AT NC HIGHWAY 24 WITHIN THOSE FOUR WEEKS.
- NIGHT WORK AT RIGGS ROAD AND MORRISTOWN ROAD IS NOT AUTHORIZED.
- 4. CONTRACTOR MAY REUSE SUB-BALLAST AND BALLAST PROVIDED THEY MEET CURRENT SPECIFICATIONS.
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO GROUND DISTURBING ACTIVITIES.
- 6. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS. THE MEASUREMENT AND QUANTITIES FURNISHED HERE ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD VERIFICATION PRIOR TO BIDDING, ORDERING MATERIALS AND DURING EVERY STEP OF CONSTRUCTION FOR EXISTING SURFACES, DIMENSIONS AND CONDITIONS.
- 7. PRESERVE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. REPAIR OR REPLACEMENT OF DAMAGED UTILITIES SHALL BE INSPECTED BY THE OWNER OF THE REPAIRED UTILITY BEFORE COVERING UP WORK WITH DIRT OF OTHER MATERIAL.
- 8. CONTRACTOR WILL ACCESS WORK SITES USING EXISTING RIGHT OF WAYS OR FROM GOVERNMENT PROPERTY 9. REFERENCE MANUFACTURE'S TECHNICAL SPECIFICATION FOR INSTALLATION INSTRUCTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST
- VERSION OF THE INTERNATIONAL BUILDING CODE (IBC), NCDOT SPECIFICATIONS AND NORFOLK SOUTHERN SPECIFICATIONS. 10. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ROICC. NOTIFY THE ROICC IMMEDIATELY OF HIDDEN DAMAGE OR POTENTIAL
- REPAIR REQUIREMENTS THAT ARE NOT SPECIFIED WITHIN THIS SCOPE AND DISCOVERED DURING THE COURSE OF WORK 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL (INCLUDING PEDESTRIAN TRAFFIC) NECESSARY TO SAFELY CONDUCT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH NORMAL
- OPERATIONS TO THE MAXIMUM EXTENT POSSIBLE. 12. JOBSITE SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH. PROPERLY REMOVE, HAUL AND DISPOSE OF ALL DEBRIS. THE CONTRACTOR SHALL NOT UTILIZE THE DUMPSTER PROVIDED BY CAMP LEJEUNE FOR THE OCCUPANTS OF THE BUILDING.
- 13. THE CAMP LEJEUNE LANDFILL MAY NOT BE UTILIZED FOR THE DISPOSAL OF BUILDING MATERIAL
- 14. CONTRACTOR MUST CONTACT CAMP LEJEUNE FIRE AND EMERGENCY SERVICES PRIOR TO CONDUCTING ANY HOT WORKS ON THE SITE BY CALLING 910-451-3004/5. A TRAINED PERSON MUST BE SOLELY ASSIGNED AS FIRE WATCH DURING AND FOR A MINIMUM OF 60 MINUTES AFTER THE COMPLETION OF ANY HOT WORKS AND MUST HAVE A METHOD OF CONTACTING 911. TWO 10LBS ABC FIRE EXTINGUISHERS MUST BE AVAILABLE ON SITE DURING HOT WORK AND DURING THE 60 MINUTES FOLLOWING COMPLETION OF HOT WORK. COVER OR REMOVE ANY COMBUSTIBLE MATERIALS NEARBY AND FOLLOW NFPA STANDARDS FOR WORK.

HAZARDOUS MATERIALS

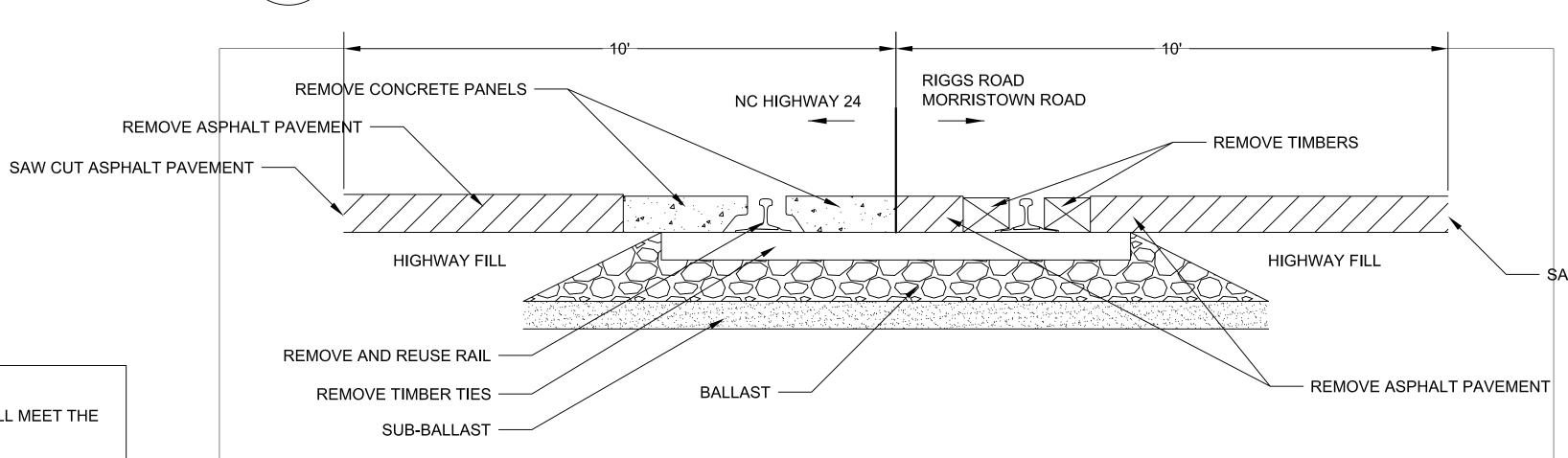
1. NO HAZARDOUS MATERIALS HAVE BEEN IDENTIFIED AT THE SITE.



PLAN 7-5B - HIGHWAY GRADE CROSSING DETAIL - NOT TO SCALE







DISCLOSURE OF INFORMATION

(1) THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR

RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

(2) THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.

THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL

CONTRACT, UNLESS:

DATE FOR RELEASE.

5/6" |5/6" +1/16" -0" 13/4" +1/8" 1 ±1/32 "----- 7/8" --±1/32 --- 13/6" --/₁₆ R. MAX 1/₂ 1/₃ 1/₄ -5/8 L ±1/32 13/16 -- II/16 " ---3' RADIUS -±1/32 * 29/32 * -**⊲**5⁄8**"**►

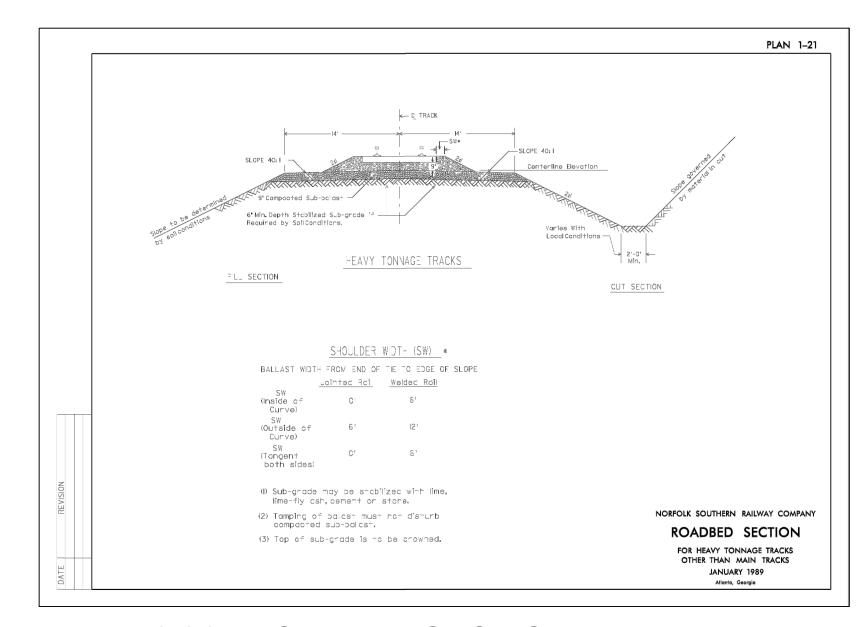
DESCRIPTION

5/8" X 6" CUT TRACK SPIKE AREMA STANDARD 640-903705 %" X 7" GALVANIZED DRIVE SCREW SPIKE AREMA STANDARD 640-903565 For use where specified in turnouts DrīW ½" pīlot hole. I50 Spikes per 200-lb keg Weight = approximately 0.83-lbs each 24l Spikes per 200-lb keg 5/8" GALVANIZED DRIVE SCREW SPIKE AREMA STANDARD PLAN 2M-63 For fastening crossing timbers. NORFOLK SOUTHERN RAILWAY COMPANY Drill $\frac{1}{2}$ pilot hole in crossties. **SPIKES APRIL 1991** Atlanta, Georgia

PLAN 1-3 SPIKES DETAIL - NOT TO SCALE

DATE

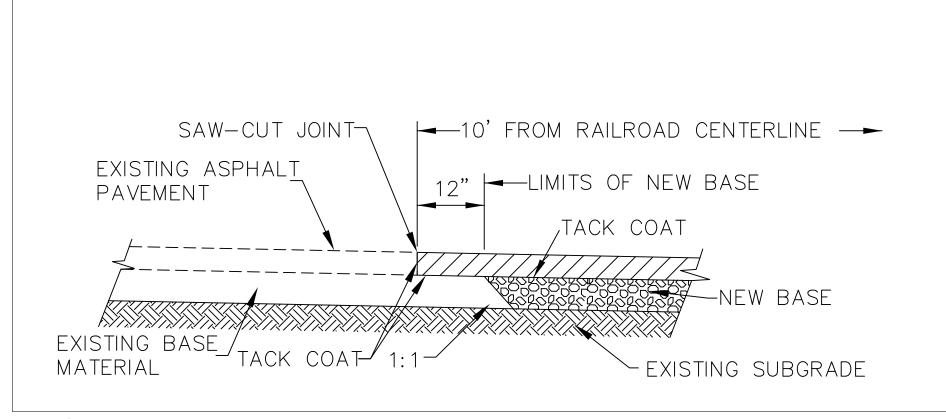
REVISION



PLAN 1-21 - ROADBED SECTION **DETAIL - NOT TO SCALE**

SAW CUT ASPHALT PAVEMENT

A DEMOLITION PLAN C001/SECTION - NOT TO SCALE



C001/SECTION - NOT TO SCALE

B SAW CUT DETAIL

2004 CONTRACTOR SHALL COMPLY AS FOLLOWS: **CUU**1 (A) THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT). PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE. NORTH CAROLINA (B) REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, S. DD ZIMBELMAN 21 - 0027DD ZIMBELMAN SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED REPAIR RAIL ROAD CROSSING HK. JP REED, PE ON PUBLIC ROADS UBMITTED BY: DD ZIMBELMAN (C) THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO DESIGN DIR. T. BURTON, PE SCOPE OF WORK

PWO DRAWING NO. SIZE CODE IDENT NO! 60035487 08/20/2021 CONST. CONTR. NO.N40085-21-B-0027 SCALE: AS SHOWN SPEC. 05—21—0027 SHEET 2 OF 5

STONE FOR USE AS BALLAST SHALL BE GRANITE CRUSHED STONE CONFORMING TO THE REQUIREMENTS OF NORFOLK SOUTHERN SPECIFICATION NO. 702 (2009) AND FURNISHED BY A NORFOLK SOUTHERN APPROVED QUARRY. 3. LIMESTONE BALLAST CONFIRMING TO NORFOLK SOUTHERN SPECIFICATION NO. 702 (2009) MAY BE USED SUBJECT TO APPROVAL OF NORFOLK

REQUIREMENTS AS SET OUT IN CHAPTER 1, PART 2, SECTION 2.11 "SUB-BALLAST SPECIFICATIONS" OF THE AREMA MANUAL.

SOUTHERN CHIEF ENGINEER. 4. IF MATERIAL MEETING THIS SPECIFICATION IS NOT AVAILABLE, LIMESTONE BALLAST MEETING AREMA SPECIFICATIONS MAY BE USED IF

SUB-BALLAST SHALL BE CRUSHER-RUN DENSE GRADED AGGREGATE, PREFERABLY LIMESTONE OR GRANITE MATERIAL AND SHALL MEET THE

APPROVED BY NORFOLK SOUTHERN CHIEF ENGINEER.

THE SUB-BALLAST SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM DRY DENSITY AND HAVE A MINIMUM DEPTH OF 9 INCHES.

5. BALLAST WILL BE #3 MODIFIED BALLAST AND SHALL CONFORM TO THE FOLLOWING GRADATION:

MATERIAL FOR BALLAST SHALL BE CLEAN CRUSHED STONE WITH A MINIMUM DEPTH OF 9 INCHES.

#3 MODIFIED BALLAST (% PASSING)

TIMBER TIES SPECIFICATIONS

SUB-BALLAST SPECIFICATIONS

2. GRADATION AS FOLLOWS:

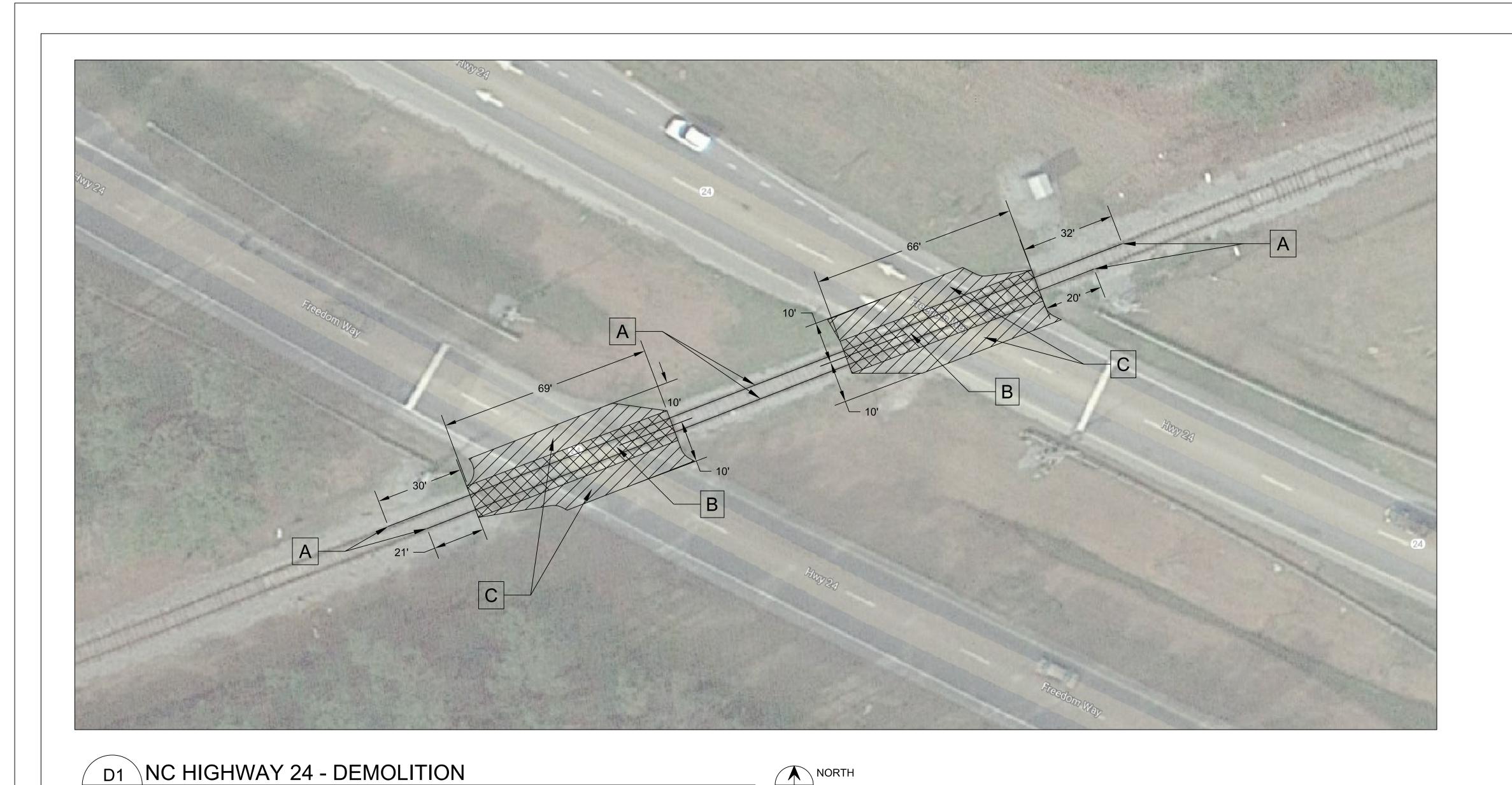
BALLAST SPECIFICATIONS

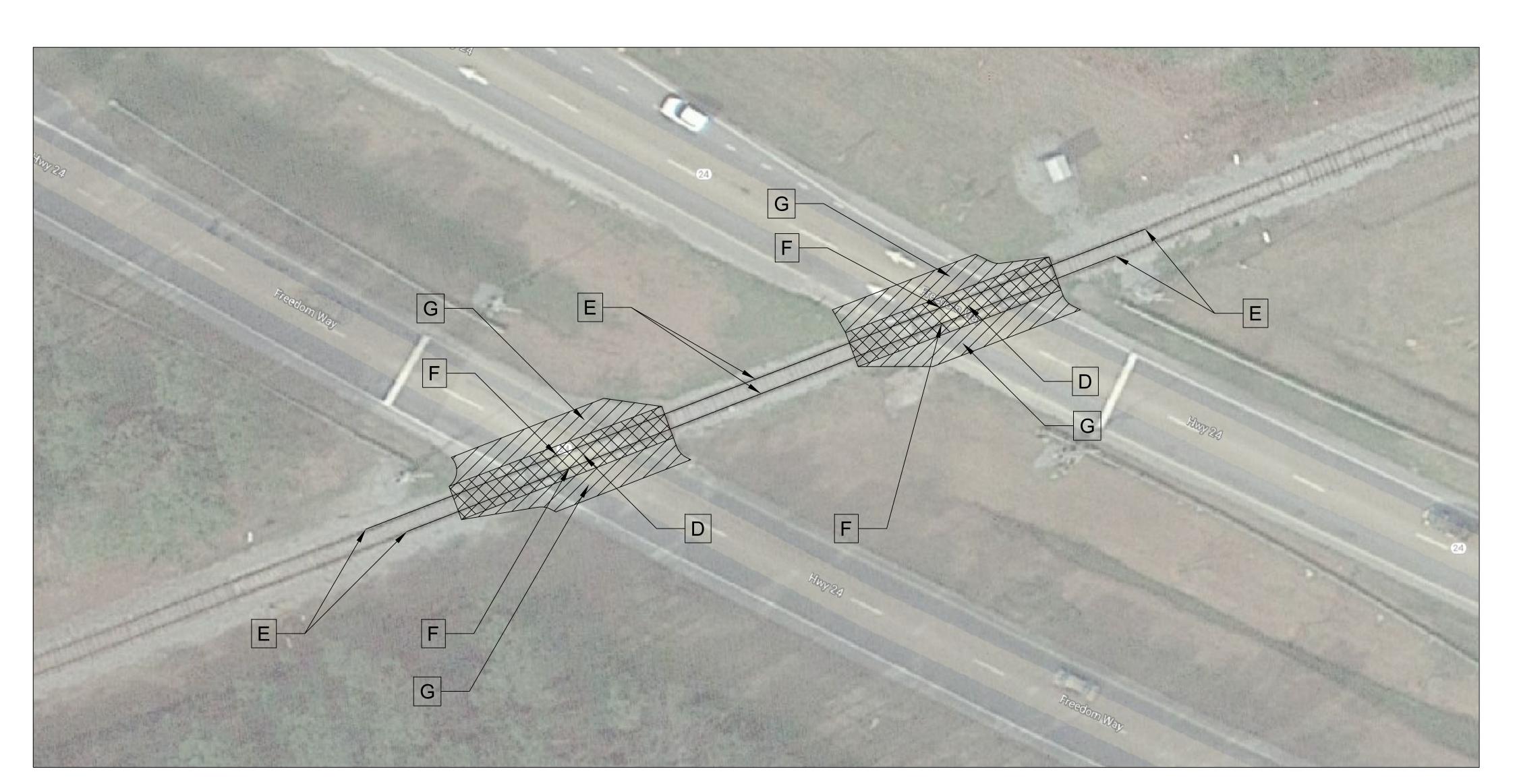
% PASSING (PERMISSIBLE RANGE)

TIES SHALL BE NEW AND CONFORM TO NORFOLK SOUTHERN QUALITY ASSURANCE SPECIFICATION FOR TIES AND TIMERS, SECTION 2, NORFOLK SOUTHERN SPECIFICATIONS FOR WOODEN INDUSTRIAL GRADE CROSSTIES, REVISED MAY 1, 2017. 2. TIES SHALL BE PURCHASED FROM A NORFOLK SOUTHERN APPROVED SUPPLIER. CERTIFICATION OF THE TIES MUST BE FURNISHED TO

NORFOLK SOUTHERN FROM THE CONTRACTOR AND/OR SUPPLYER BASED ON NORFOLK SOUTHERN SPECIFICATIONS. 3. TIES SHALL BE PLACED ON THE PREPARED SUB-BALLAST AT RIGHT ANGLES OR NORMAL TO THE CENTERLINE OF THE TRACK. TIES SHALL BE

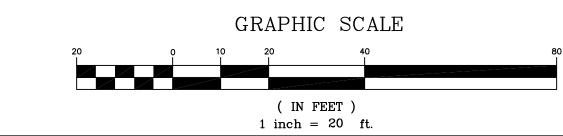
SPACED 20 INCHES, CENTER TO CENTER (60 TIES PER 100 FEET) WITH THE ENDS OF THE TIES ALONG ONE SIDE OF THE CENTERLINE ON TANGENT TRACK AND ALONG THE INSIDE ON CURVED TRACK BEING PLACED 1" 10 $\frac{3}{4}$ " FROM THE GAGE OF THE NEAREST RAIL.





D2 NC HIGHWAY 24 - NEW WORK
C101 PLAN - 1" = 20"

C101 PLAN - 1" = 20'



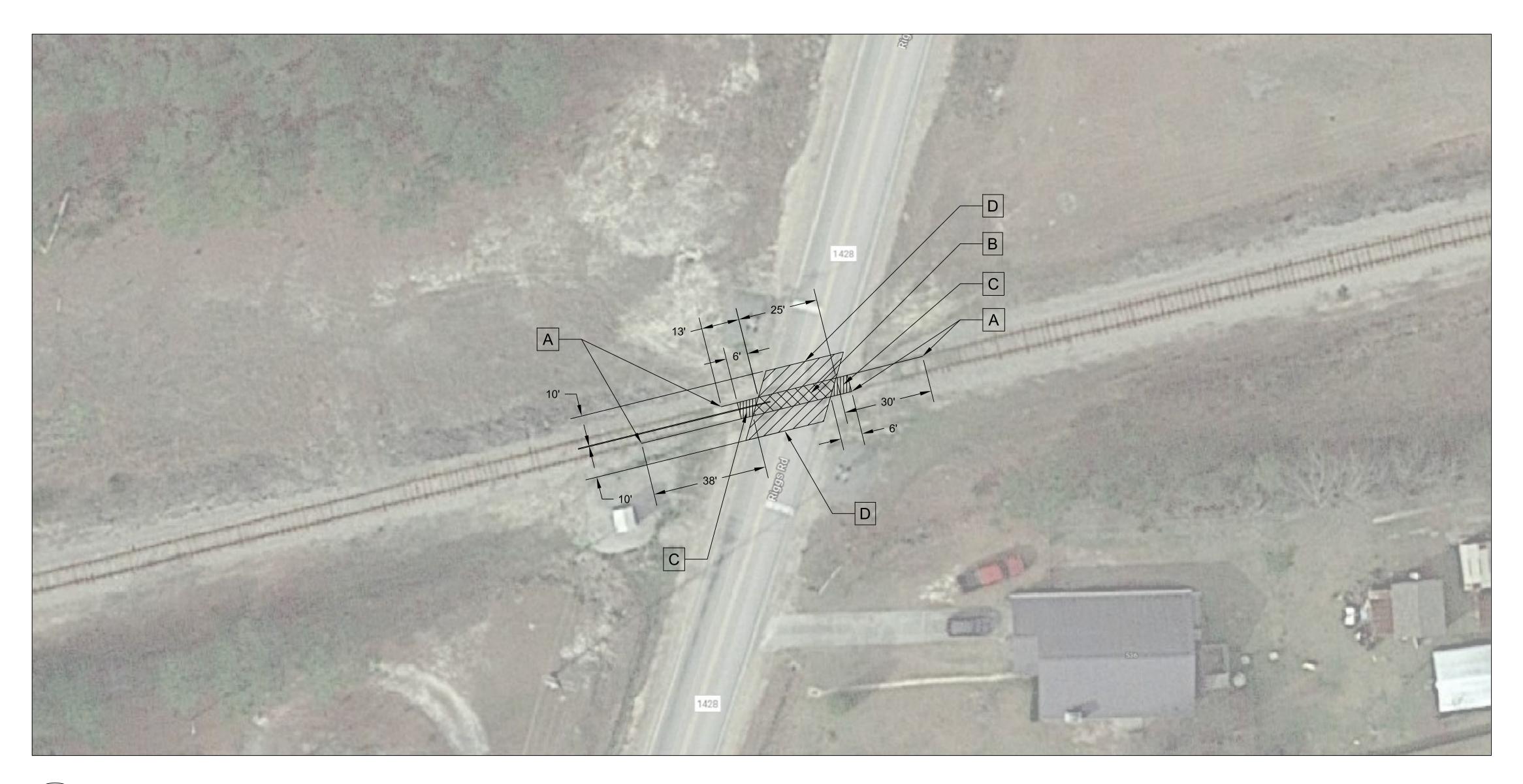
DATE	REVISION	DESCRIPTION

KEYED NOTES:

- A REMOVE EXISTING RAIL FROM NEAREST JOINT OF TRACK SECTION. PROTECT. RAIL REMOVED WILL BE RE-USED.
- B REMOVE CONCRETE RAIL ROAD CROSSING PANELS. REMOVE OLD TIMBER TIES AND BALLAST.
- C SAWCUT PAVEMENT MIN OF 10' FROM CENTERLINE OF RAIL LINE AND REMOVE.
- ENSURE A 9" SUB-BALLAST UNDER FULL WIDTH AND LENGTH OF CROSSING. INSTALL NEW 9" BALLAST. INSTALL NEW TIES, TIE PLATES AND SPIKES.
- E REINSTALL RAIL PREVIOUSLY REMOVED.
- F INSTALL NEW RUBBER FLANGEWAY PER DETAIL PLAN 7-5B
- G REPAVE ROADWAY AS PER DETAIL C/C001

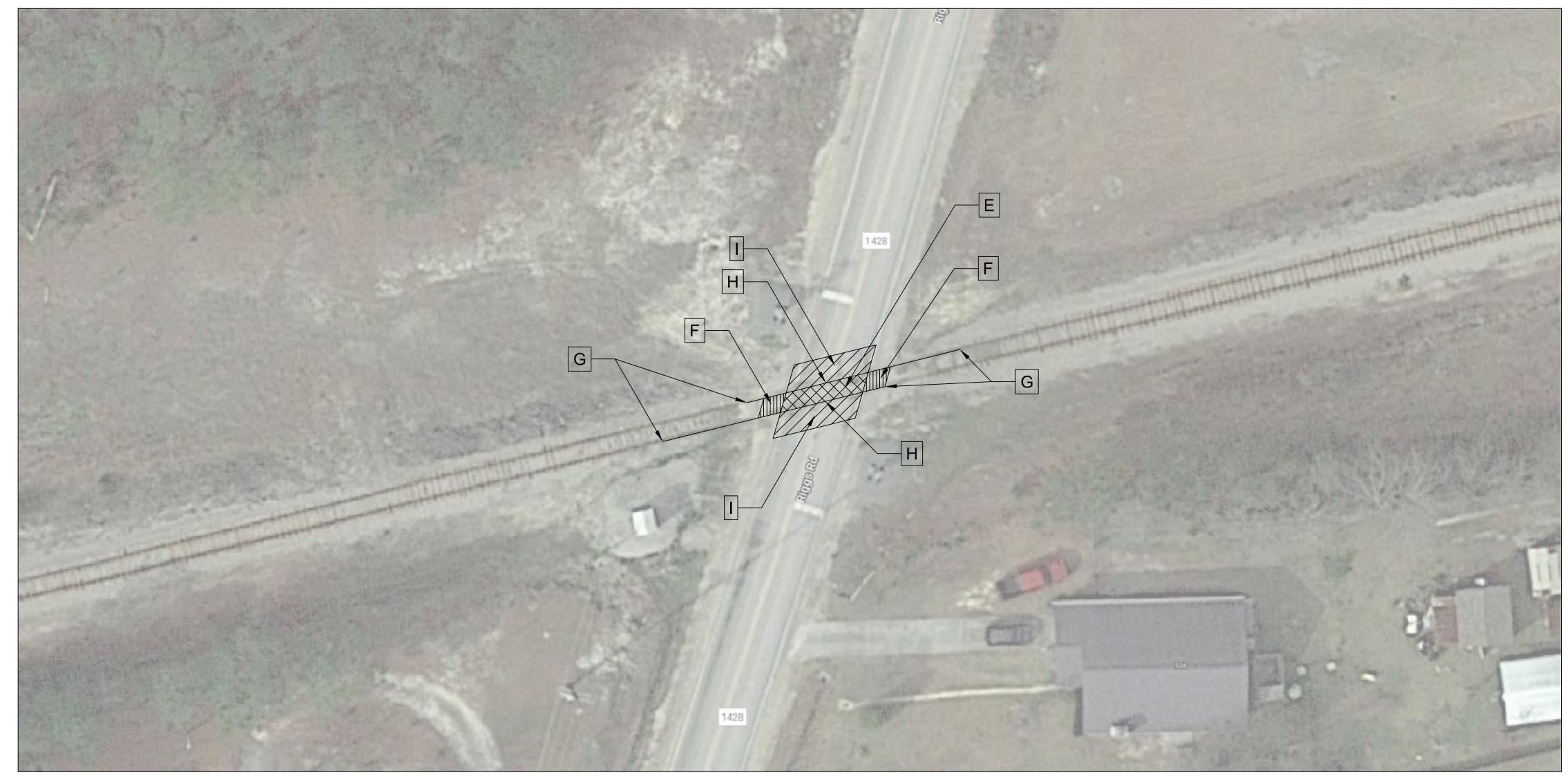
SCLOSURE OF INFORMATION		
ONTRACTOR SHALL COMPLY AS FOLLOWS:		C101
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NDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO ELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.	DESIGN DIR. T. BURTON, PE	NC HIGHWAY 24
LEENGE THROUGH THE FINISH CONTINUE CONTINUE OF HOLK.	DATE:	SIZE CODE IDENT NO PWO DRAWING NO

SCALE: AS SHOWN SPEC. 05-21-0027



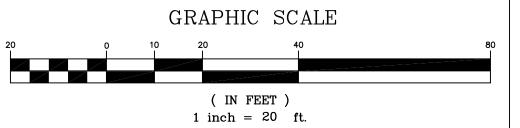
E1 RIGGS ROAD - DEMOLITION C102 PLAN - 1" = 20'





E2 RIGGS ROAD - NEW WORK C102 PLAN - 1"=20'





DATE	REVISION	DESCRIPTION

KEYED NOTES:

- REMOVE EXISTING RAIL FROM NEAREST JOINT OF TRACK SECTION. PROTECT. RAIL REMOVED WILL BE RE-USED.
- B REMOVE ASPHALT AND OLD CROSSING TIMBERS . REMOVE OLD TIMBER TIES AND BALLAST.
- C REMOVE OLD TIMBER TIES AND BALLAST (BEYOND ROADWAY).
- SAWCUT PAVEMENT MIN OF 10' FROM CENTERLINE OF RAIL LINE AND REMOVE.
- ENSURE A 9" SUB-BALLAST UNDER FULL WIDTH AND LENGTH OF CROSSING. INSTALL NEW 9" BALLAST. INSTALL NEW TIES, TIE PLATES AND SPIKES.
- ENSURE A 9" SUB-BALLAST BEYOND THE CROSSING. INSTALL NEW 9" BALLAST. INSTALL NEW TIES, TIE PLATE AND SPIKES.
- G REINSTALL RAIL PREVIOUSLY REMOVED.
- H INSTALL NEW RUBBER FLANGEWAY PER DETAIL PLAN 7-5B
- I REPAVE ROADWAY AS PER DETAIL C/C001

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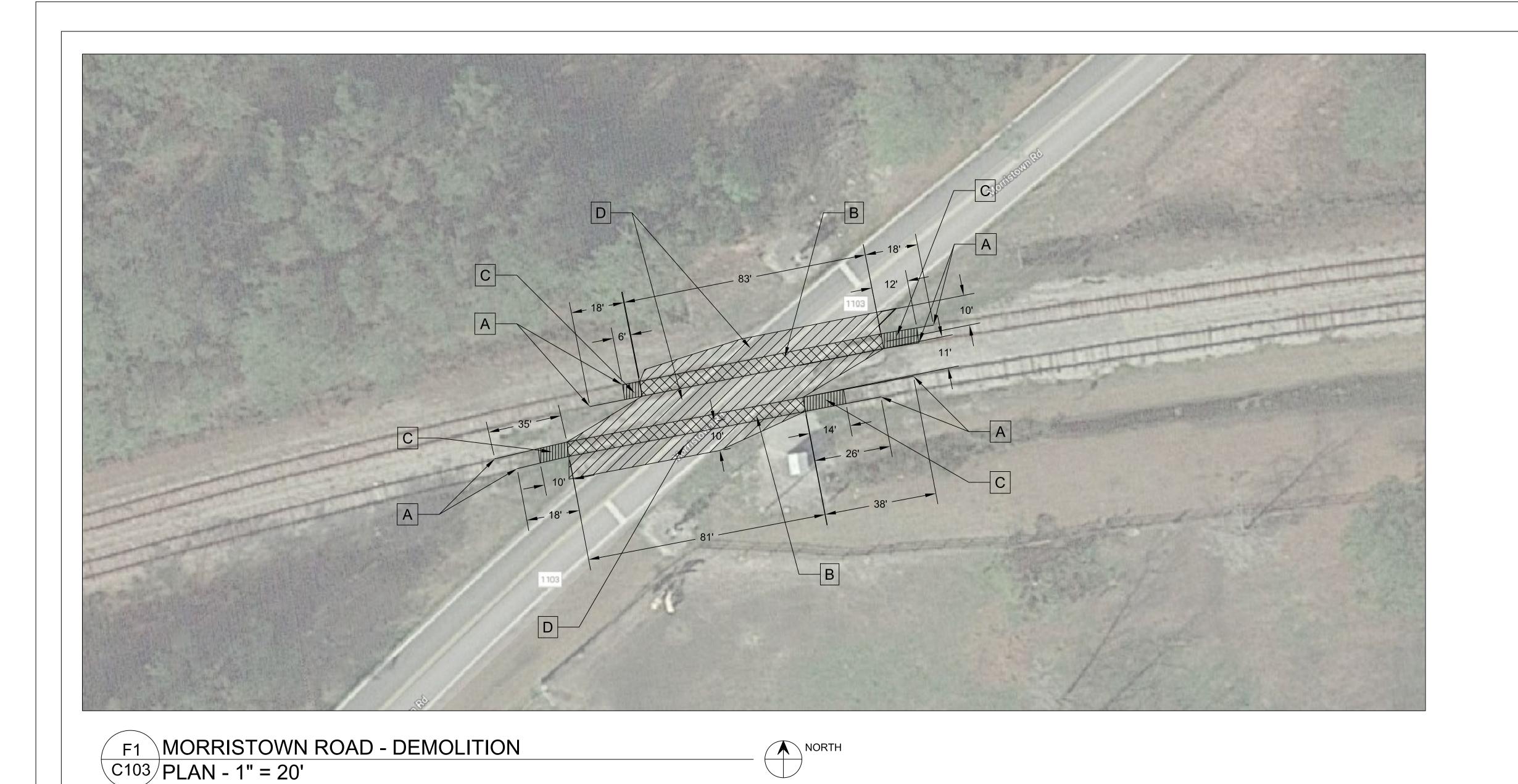
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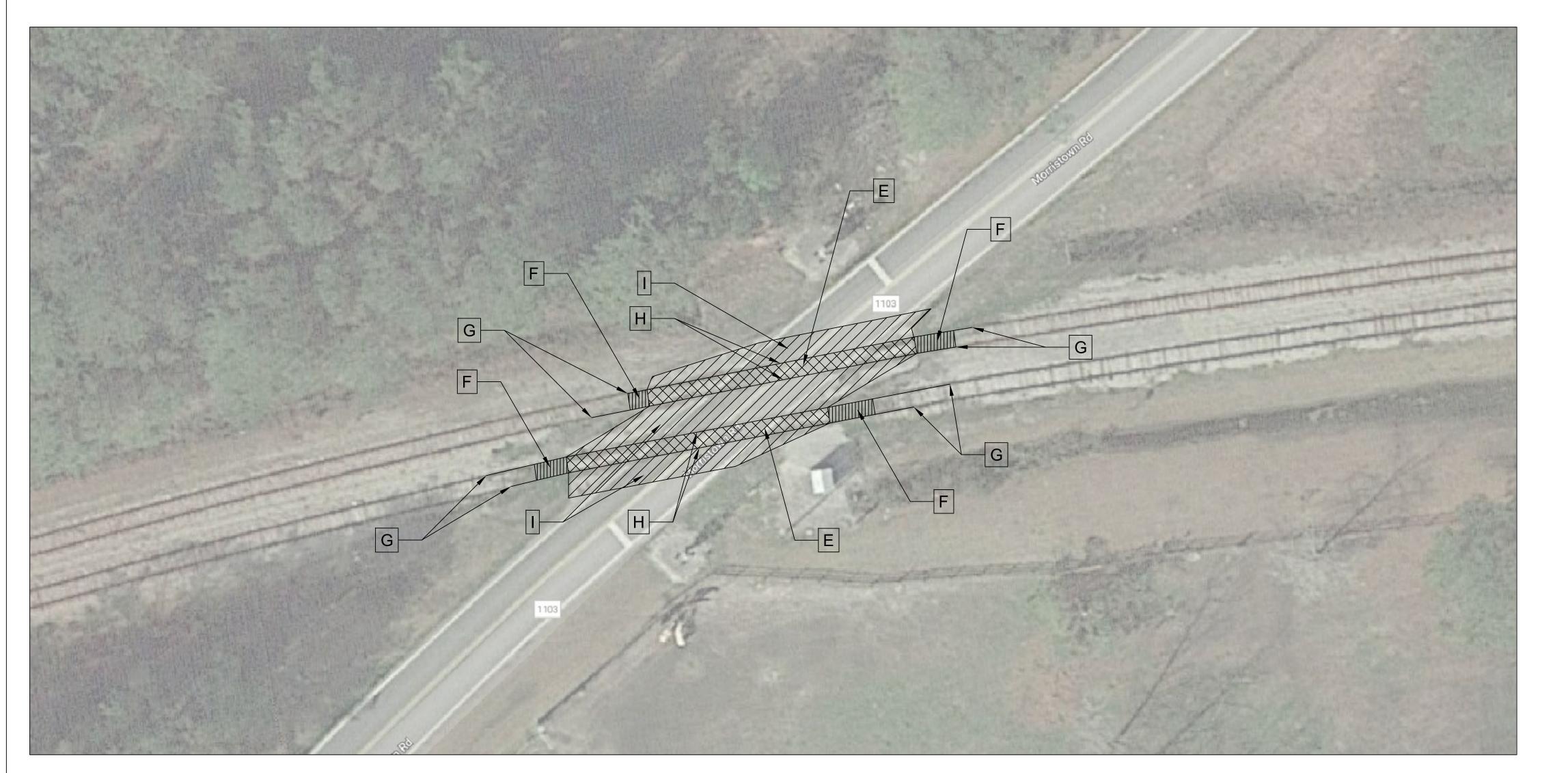
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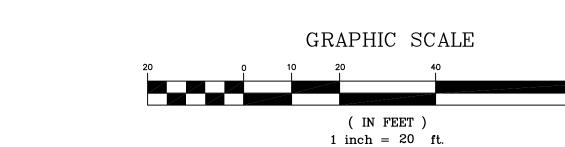
			C102	
	DEP	PARTMENT OF THE NA		
		MARINE	E CORPS BASE	
		CAMP L	EJEUNE, NORTH CAROLINA	
DES. DD ZIMBELMAN		21-0027 REPAIR RAIL ROAD CROSSING		
DR. DD ZIMBELMAN				
CHK. JP REED, PE				
SUBMITTED BY: DD ZIMBELMAN		ON PUBLIC ROADS		
DESIGN DIR. T. BURTON, PE		RIGGS ROAD		
DATE:	SIZE	CODE IDENT NO.	PWO DRAWING NO.	
8/24/2021	F 1	80091	60035489	
			CONST. CONTR. NO.N40085-21-B-0027	

SCALE: AS SHOWN SPEC. 05-21-0027 SHEET 4 OF 5





F2 MORRISTOWN ROAD - NEW WORK
C103 PLAN - 1" = 20'



DATE	REVISION	DESCRIPTION

KEYED NOTES:

- A REMOVE EXISTING RAIL FROM NEAREST JOINT OF TRACK SECTION. PROTECT. RAIL REMOVED WILL BE RE-USED.
- B REMOVE ASPHALT AND OLD CROSSING TIMBERS . REMOVE OLD TIMBER TIES AND BALLAST.
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- I REPAVE ROADWAY AS PER DETAIL C/C001

DISCLOSURE OF INFORMATION

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

DES. DD ZIMBELMAN

DR. DD ZIMBELMAN

CHK. JP REED, PE

SUBMITTED BY: DD ZIMBELMAN

DESIGN DIR. T. BURTON, PE

DATE:

8/26/2021

SCALE: AS SHOWN SPEC. 05–21–0027

SCALE: AS SHOWN SPEC. 05–21–0027