

IN THE MATTER OF THE CONSTRUCTION
OF A NEW I.R. 71 CONNECTOR RAMP GRADE
SEPERATION STRUCTURE OVER THE TRACKS
OF CSX TRANSPORTATION, INC. IN THE CITY
OF COLUMBUS, FRANKLIN COUNTY, OHIO

AGREEMENT NO. 31540
PID: 105588

AGREEMENT

THIS AGREEMENT, made this 26 day of February, ~~2019~~ ²⁰²⁰ between the State of Ohio, acting by and through the Director of Transportation of the State of Ohio, as First Party, hereinafter referred to as the STATE, and CSX Transportation, Inc., as Second Party, hereinafter referred to as the COMPANY.

WITNESSETH:

WHEREAS, the STATE proposes to construct a new I.R. 71 connector ramp grade separation structure (FRA-71-1503L), over the COMPANY's Columbus Subdivision tracks at milepost CK-1.72+/- in the City of Columbus in Franklin County, Ohio, and

WHEREAS, said construction requires the construction of a new I.R. 71 connector ramp grade separation structure (FRA-71-1503L) over the tracks of the COMPANY and the highway at the point hereinbefore mentioned. Said work and the necessary approaches thereto are hereinafter referred to as the PROJECT; and

WHEREAS, no existing COMPANY grade crossing will be eliminated as a result of the proposed construction; and

WHEREAS, under such conditions, Chapter 5523 of the Revised Code of Ohio and other grade crossing elimination laws of the State of Ohio do not apply to the PROJECT herein considered; and

WHEREAS, the Director of Transportation of the State of Ohio is empowered generally by Chapter 5501 of the Revised Code of Ohio to carry forward highway improvements of the type herein contemplated; and

WHEREAS, the Federal-Aid Highway Act of 1956, as amended, and Section 5531.03 of the Revised Code of Ohio have become effective, providing funds for the construction costs of projects such as is contemplated herein; and

WHEREAS, it is desired by the parties hereto to carry out and accomplish the construction of the PROJECT over the tracks of the COMPANY at the point hereinbefore mentioned and to determine and agree upon the manner of doing said work and the portion of said work to be done by each of said parties respectively, and the proportion of costs and expenses to be paid by each of said parties, and the mode and time of payment therefore.

NOW THEREFORE, for and in consideration of the mutual covenants hereinafter stipulated to be kept and performed, it is agreed between the parties as follows:

SECTION 1

The plans of the STATE for the said improvement are identified by title as follows:

"State of Ohio, Department of Transportation, FRA-71-14.36, Phase 6R, City of Columbus, Franklin County, OH "

Before this agreement shall be in force and effect, the foregoing plans shall meet the approval of the parties hereto, and upon such approval shall become a part of this agreement by reference.

SECTION 2

The work to be done under this agreement and shown on the plans, which are attached hereto and incorporated herein as if fully written and are described under SECTION 1 of this agreement, consists of the construction of a new I.R. 71 connector ramp grade separation structure (FRA-71-1503L) over the tracks of the COMPANY and the necessary approaches thereto.

Said work will consist of the construction new sub- and superstructures, concrete deck and parapets, and installation of lighting, signage and a closed drainage system.

It is understood that temporary minimum construction clearances of 22'-0" vertically from the top of rail and 14'-0" from centerline of track horizontally will be permitted by the COMPANY.

The construction of the highway and the necessary earth work including grading, draining and paving of the highway, the sodding, seeding and planting of slopes, the construction of highway guard rails, the settlement of claims for property purchased, appropriated or damaged by such construction, and the maintenance of railroad traffic and rearrangement and restoration of railroad facilities made necessary by the work herein contemplated, shall be considered as necessary items to be included as part of this improvement.

SECTION 3

Responsibility for the several necessary items of work shall be as follows:

- a. The following items shall be let in contract by the STATE after competitive bidding as provided by law, at PROJECT expense, subject to the provisions of this agreement:
 - 1. Construction of a new connector ramp grade separation structure (FRA-71-1503L); including new concrete piles, piers, and abutments; new concrete deck and parapets, new lighting and closed drainage systems; grading, draining and paving of the highway, including constructing any necessary approaches
 - 2. Sodding, seeding and planting of slopes.

b. The following items shall be done or caused to be done by the COMPANY with its own forces, at PROJECT expense, subject to the provisions of this agreement.

1. Provision of flagmen, watchmen and other protective services and devices to promote safety and insure continuity of train operations as may be necessary in connection with the work performed by the COMPANY's forces.

SECTION 4

Any work not specifically provided for in SECTION 3 shall be done by one of the parties hereto as may be mutually agreed upon from time to time during progress of the work, as provided for by the rules and regulations of the Federal Highway Administration as then in effect.

SECTION 5

All work to be done by the COMPANY under the provisions of this agreement shall be done in accordance with the plans described in SECTION 1, together with such other plans and specifications, detailed and supplementary thereto, as may be mutually agreed upon and as may be necessary to carry out the work fully in accordance with the intent of this agreement and in accordance with good engineering practice. All work to be done by the STATE shall be done in accordance with said plans and under the standard and supplemental specifications of the Department of Transportation in force on the date of the award of the contract, together with such special provisions as may be agreed upon by the parties hereto.

The STATE will require its contractor to use Railroad protective personnel to protect railroad traffic made necessary or occasioned by his operations, as set forth in special provisions to be approved by the parties hereto, which are more specifically set forth in the "Special Clauses in the Proposal" and which are included in this agreement by reference.

The COMPANY agrees to furnish the STATE's contractor at PROJECT expense, and the STATE shall require its contractor to use such flag men, pilots, watchmen or other protective services and devices, other than engineering personnel, as in the opinion of the COMPANY are required to promote the safety and insure continuity of railroad traffic during the contractor's operations.

The COMPANY agrees to bill the STATE as a part of its regular force account work the actual cost for such protective services and devices, including the actual rate of pay, plus the amount paid for overtime, insurance, railroad retirement, vacation allowance, holidays, health and welfare, transportation, deadhead and turn around time, accounting and billing.

The STATE agrees to reimburse the COMPANY for said protective services and devices as a part of its regular force account work as set forth in this agreement.

SECTION 6

The STATE shall have general charge of the engineering work on the PROJECT, but the COMPANY shall provide such engineering services as the STATE may require. Nothing herein shall deny the COMPANY the right to place inspectors on work being done on its property or facilities.

All engineering and related inspection costs incurred by the COMPANY subsequent to the award of a construction contract by the STATE may be charged against the PROJECT under the terms of Engineering Agreement #26507 previously executed between the STATE and the COMPANY.

SECTION 7

The STATE shall require its contractor at all times to use all reasonable care and diligence and to cooperate with the officials of the COMPANY in order to avoid accidents, damage or unnecessary delay to or interference with trains upon the tracks of the COMPANY.

If at any time the STATE's contractor requires a temporary crossing over the COMPANY's tracks, the STATE shall require said contractor to arrange with the COMPANY for such crossing.

SECTION 8

It is understood that the construction costs of the PROJECT herein contemplated are to be financed from funds provided by the STATE and expended in accordance with Federal regulations, that all plans, specifications, estimates of costs, awards of contracts, acceptance of work and procedure in general will at all times conform to all Federal laws, rules, regulations, orders and approvals applying to a Federal-Aid Project, and the STATE shall reimburse the COMPANY for construction costs and for preliminary and construction engineering costs in accordance with Federal-Aid Policy Guide 140(I) of the Federal Highway Administration or any subsequent amendments thereto, in such amounts and forms as are proper and eligible for payment from Federal-Aid highway funds.

The COMPANY shall render its billings to the STATE in accordance with said rules and regulations, and further agrees to provide and furnish such itemized records of and substantiating data for such costs as may be necessary.

In the event that delays or difficulties arise in securing necessary approvals or in securing necessary rights of way or settling damages or damage claims which, in the opinion of the STATE, render it impracticable to utilize funds from the current appropriation for the construction of the PROJECT, the STATE may serve formal notice of cancellation upon the COMPANY and this agreement shall, with the exception of the obligations set forth in the following sentence, become null and void. The STATE shall reimburse the COMPANY for all costs and expenses incurred by it at the request of the STATE, on account of the PROJECT prior to such cancellation, and shall restore the COMPANY's property to the condition existing prior to the initiation of the PROJECT construction.

SECTION 9

The COMPANY may bill the STATE monthly or periodically for its force account when costs exceed \$1,000. Progressive invoices may be submitted for work done during the previous month or period showing the portion of estimated cost completed. A final bill covering actual cost of work and showing all details shall be submitted to the STATE within ninety (90) days after completion of said work. The STATE shall pay all bills that have been approved within sixty (60) days after receipt thereof. The STATE may hold a retainer on all bills not to exceed eight percent (8%) until final payment. Final payment for all amounts due the COMPANY shall be paid by the STATE within sixty (60) days after the final audit has been made and approved.

SECTION 10

The STATE shall acquire or settle all property, property rights and all damages to property affected by the PROJECT. The cost of said property, property rights and damages to property shall be included as a part of the PROJECT expense.

The COMPANY, insofar as it has the legal right so to do, shall permit the STATE and/or its contractor to enter upon lands owned or operated by the COMPANY to construct and occupy said highway facilities across its property with sufficient width to permit construction and maintenance of the PROJECT. The STATE and COMPANY shall enter into good faith negotiations for a price to be consistent with the property interest determined by the Director of Transportation to be needed for the proposed improvement.

However, the price to be paid by the STATE to the COMPANY for said conveyances (representing the fair market value thereof plus damages, if any, to the residue) shall be as mutually agreed upon within nine (9) months from the date of occupancy by the STATE, and if agreement as to price is reached, an additional period of ninety (90) days shall be allowed for settlement, it being agreed however, that if no agreement as to price is reached within the aforesaid nine (9) month period, the STATE will within ninety (90) days thereafter institute an eminent domain proceeding authorized by law for the determination of the value of same. The provisions of this agreement shall survive the institution of such eminent domain proceeding.

The STATE shall furnish the plans and descriptions for any such conveyance. It is understood however, that the foregoing right of entry is a permissive use only, and this Section is not intended to convey or obligate the COMPANY to convey any interest in its land.

In case any action involving said improvement is brought by or against any party hereto, said party shall promptly notify the other parties of the pendency of such action.

SECTION 11

Each party hereto waives, but only against the others, any and all damages or right to claim damages to any of its property growing out of or in any way connected with the improvement herein contemplated, except as otherwise provided for in this agreement.

The STATE shall require of its contractor a bond, conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the STATE, and shall further require its contractor to take out before work is commenced, and keep in effect until work is completed and accepted, a policy of Railroad Protective Liability Insurance from an insurance company authorized to do business in the State of Ohio, to protect the COMPANY against loss or damage to property and injury to or death of persons, and against all claims, demands, expenses, suits or judgments arising because of, or resulting from the operations of the contractor, his subcontractor, agents or employees, such policy of insurance to provide for a single limit in the amount of \$5,000,000.00 per occurrence and subject to that limit, an aggregate in the amount of \$10,000,000.00 for each annual period for all damages arising out of bodily injuries to or death of one or more persons and out of injury to or destruction of property including such property in the care, custody and control of the COMPANY.

The above insurance provisions are more specifically set forth in the "Special Clauses in the Proposal" which are included in this agreement by reference.

SECTION 12

The work provided for in this agreement shall be commenced by the parties hereto within thirty (30) days from the latter of the following: (1) the date on which this agreement becomes effective, (2) the date on which the COMPANY has been notified by the STATE to proceed or (3) the date on which all funds necessary therefore on the part of the STATE have been properly certified and made available; and it shall be completed within a reasonable time thereafter.

Buying and assembling of materials shall be construed as compliance with the foregoing thirty (30) day provision.

All obligations of the STATE provided for in this agreement which require the expenditure of funds by the STATE shall terminate at the end of the present biennium, being June 30, 2021. If construction covered under said agreement is not complete by June 30, 2021, it is the expressed intention of the parties to automatically renew said obligations for one successive biennium period; with the renewal period beginning July 1, 2021 and ending no later than June 30, 2023; until such time as construction covered under said agreement is complete. Said renewal is conditioned upon the STATE determining future appropriations will permit the STATE to renew said -obligations.

All financial obligations of the STATE as provided for in this agreement are subject to the provisions of Section 126.07 of the Ohio Revised Code.

SECTION 13

Upon completion of the PROJECT herein contemplated the STATE shall at its own cost and expense, maintain, repair and renew, or by agreement with others provide for the maintenance, repair and renewal of the bridge sub- and superstructure and surfaces, approach grades and all highway facilities constructed or changed under the terms of this agreement. The COMPANY will permit access onto its property to perform said maintenance and shall at its own cost and expense, maintain, repair and renew all of its facilities constructed or changed under the terms of this agreement.

The COMPANY will not be vested with any rights of ownership of the bridge structure, and will not have a duty to maintain the bridge structure, and will not, if the structure ceases to be a part of the highway system, have a duty to remove the facility from the COMPANY right of way.

The COMPANY shall have the right to attach to the portion of said structure, where it crosses the property of the COMPANY, such signal, electric and communication wires as may be requisite or useful in the operation of the COMPANY; any such attachments which are not a part of the PROJECT shall be made and maintained by the COMPANY at its own expense. No such attachments shall be made without the approval by the STATE of the COMPANY's detailed plans.

SECTION 14

This agreement shall be for the benefit of the parties hereto only and no person, firm or corporation shall acquire any rights whatsoever by virtue of this agreement, except the STATE and COMPANY and the successors and assigns of the COMPANY.

SECTION 15

The Federal Highway Administration's Federal-Aid Policy Guide 646(B) classifies this PROJECT in Classification No. 2 resulting in no ascertainable benefits to the COMPANY. The Parties signatory to this agreement accepts this classification as applicable in this instance. The COMPANY's contribution shall be zero dollars.

SECTION 16

The COMPANY agrees to adhere to the requirements of Ohio Ethics law as provided by Section 102.04 of the Ohio Revised Code. O.R.C. Section 102.04(A) prohibits a state official or employee from receiving compensation, other than from his own agency, for personal services rendered in a case, proceeding application, or other matter before any state agency. O.R.C. Section 102.04(B) prohibits state officials and employees from selling goods or services to state agencies, except by competitive bidding.

It is understood by the parties that non-elected state officials and employees may qualify for an exemption under Section 102.04(D), if (1) the agency with which the official or employee seeks to do business is an agency other than the one with which he serves; and, (2) prior to rendering personal services or selling or agreeing to sell goods or services, the official or employee files an O.R.C. Section 102.04(D) statement with the Ohio Ethics Commission, the agency with which he serves, and the agency with which he seeks to do business. The statement must include a declaration that the non-elected state official or employee disqualifies himself for a period of two years from any participation in his official capacity as a board or commission member in any matter involving any official or employee of the agency with which he seeks to do business.

It is expressly understood and agreed to by the parties that a failure by the COMPANY to file a declaration statement as required under O.R.C. Section 102.04(D), may be considered by the STATE, a breach of material condition of this agreement and the STATE may, if it so elects, void this agreement.

SECTION 17

In carrying out this contract, the COMPANY shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin (ancestry), disability, genetic information, age (40 years or older), sexual orientation, or military status (past, present, or future). The COMPANY will ensure that applicants are hired and that employees are treated during employment without regard to their race, religion, color, sex, national origin (ancestry), disability, genetic information, age (40 years or older), sexual orientation, or military status (past, present, or future).

Such action shall include, but not be limited to, the following: Employment, Upgrading, Demotion, or Transfer; Recruitment or Recruitment Advertising; Layoff or Termination; Rates of Pay or other forms of Compensation; and Selection for Training including Apprenticeship.

During the performance of this contract, the COMPANY agrees as follows:

Compliance with Regulations: The COMPANY will comply with the Acts and Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

Non-discrimination: The COMPANY, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, sex, age, disability, low-income status, or limited English proficiency in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The COMPANY will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations as set forth below, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

Solicitations for Subcontractors, including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the COMPANY for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the COMPANY of the obligations under this contract and the Acts and the Regulations relative to nondiscrimination on the grounds of race, color, national origin, sex, age, disability, low-income status, or limited English proficiency.

Information and Reports: The COMPANY will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Ohio Department of Transportation (hereinafter "ODOT") or FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required is in the exclusive possession of another who fails or refuses to furnish this information, the COMPANY will so certify to ODOT or FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.

Sanctions for Noncompliance: In the event of noncompliance with the Nondiscrimination provisions of this contract, ODOT will impose such contract sanctions as it or FHWA may determine to be appropriate, including, but not limited to: withholding payments under the contract until it complies; and/or cancelling, terminating, or suspending a control, in whole or in part.

Incorporation of Provisions: The COMPANY will include the provisions of this and the above five paragraphs in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The COMPANY will take action with respect to any subcontract or procurement as ODOT or FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if it becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the COMPANY may request ODOT to enter into any litigation to protect the interests of ODOT. In addition, the COMPANY may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the COMPANY agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-Aid programs and projects)
- Federal-Aid Highway Act of 1973 (23 U.S.C. § 324 *et seq.*) (prohibits discrimination on the basis of sex)
- Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability) and 49 CFR Part 27
- The Age Discrimination Act of 1975, as amended (42 U.S.C. § 6101 *et seq.*) (prohibits discrimination on the basis of age)
- Airport and Airway Improvement Act of 1982 (49 U.S.C. § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex)

- The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage, and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of Federal-Aid recipients, sub-recipients, and contractors, whether such programs or activities are Federally funded or not)
- Titles II and III of the Americans with Disabilities Act (42 U.S.C. §§ 12131-12189), as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38 (prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities)
- The Federal Aviation Administration's Non-Discrimination Statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex)
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations)
- Executive Order 13166, Improving Access to Services for People with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100)
- Title VIII of the Civil Rights Act of 1968 (Fair Housing Act), as amended (prohibits discrimination in the sale, rental, and financing of dwellings on the basis of race, color, religion, sex, national origin, disability, or familial status (presence of child under the age of 18 and pregnant women))
- Title IX of the Education Amendments Act of 1972, as amended (20 U.S.C. 1681 *et seq.*) (prohibits discrimination on the basis of sex in education programs or activities)

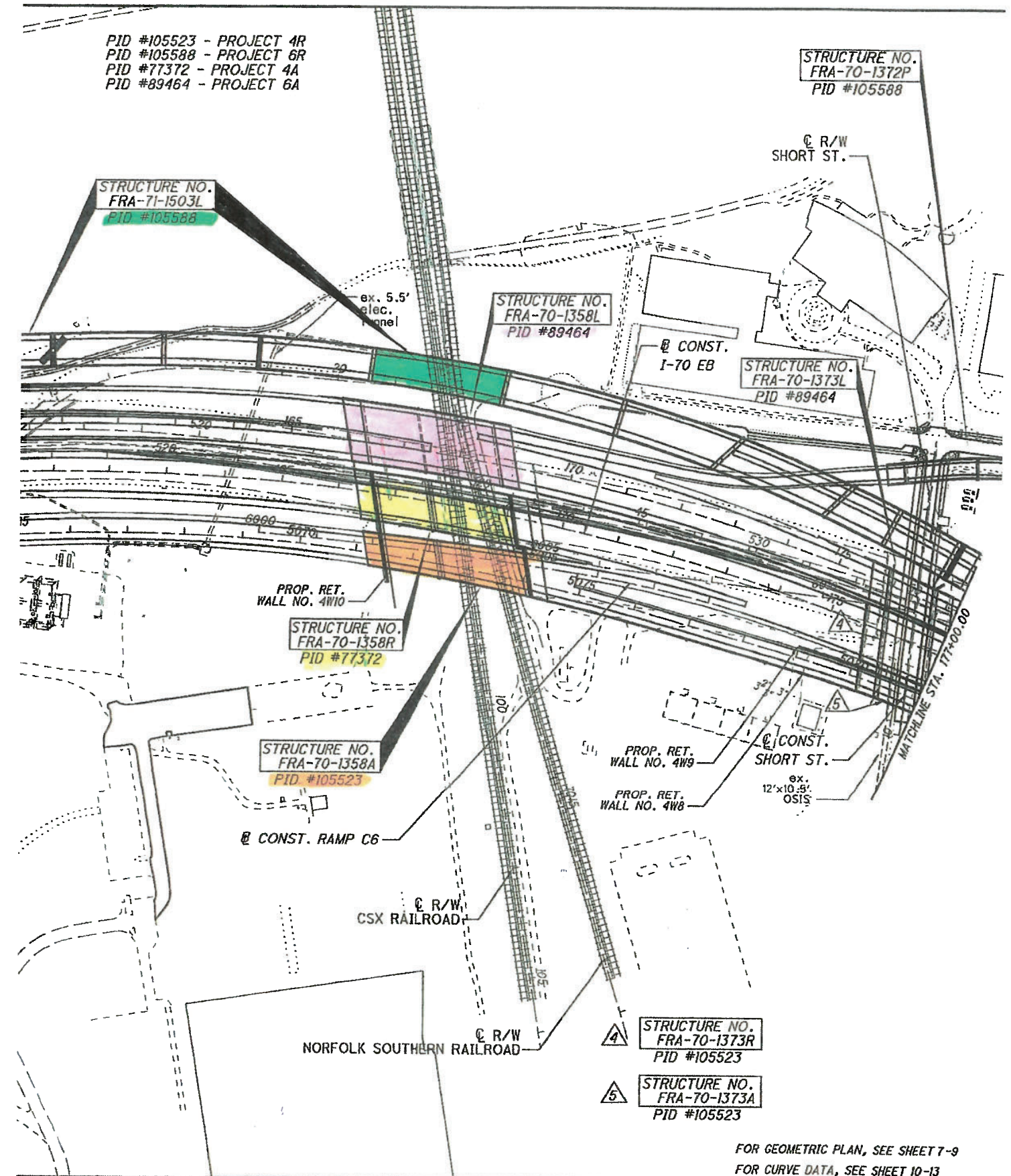
IN WITNESS WHEREOF, the parties hereunto have caused this agreement to be duly executed in duplicate as of the day and year first above written.

THE STATE OF OHIO

By [Signature]
 Jack Marchbanks Ph.D.
 Director of Transportation

CSX TRANSPORTATION, INC.

By [Signature]
 Print Name Tony C. Bellamy, P.E.
 Title Director Project Management-Public Projects



FOR GEOMETRIC PLAN, SEE SHEET 7-9
 FOR CURVE DATA, SEE SHEET 10-13

FRANKLIN COUNTY
FRA-71-14.36 (Proj. 6R); PID 105588
CSX TRANSPORTATION INC.

CSX Great Lakes Zone, Columbus Subdivision
MP CK-1.72+/-
OP# OH 1339

SPECIAL CLAUSES IN THE PROPOSAL

The bidder, if awarded the contract for this improvement agrees:

1. To cooperate at all times with the local officials of the railroad company.
2. To use all reasonable care and diligence in the work in order to avoid accidents, damage or unnecessary delay to, or interference with the trains and other property of the railroad company.
3. To conduct his work in a manner satisfactory to the Chief Engineer of the railroad company or his authorized representative, to perform his work in such manner and at such time as not to unnecessarily interfere with the movements of trains or railroad traffic, and to hold his work at all times open to inspection of railroad company inspectors.
4. To cooperate with a public utility, railroad or other organizations having occasion to do work on or in connection with the improvement.
5. To avoid unnecessary use of railroad property without written permission of the railroad company and to leave railroad roadbed and property in a condition acceptable to the Chief Engineer of the railroad company.
6. To execute a bond conditioned according to Section 5525.16 of the Revised Code of Ohio, in favor of the State of Ohio and further to carry insurance of the following kinds and amounts:

The number of trains operating through the improvement is estimated to be:

0 Passenger trains per day @ miles per hour.

20 Freight trains per day @ 30 miles per hour.

7. Railroad Insurance Requirements

Contractor shall procure and maintain in the following insurance policies:

1. Commercial General Liability coverage at their sole cost and expense with limits of not less than \$5,000,000 in combined single limits for bodily injury and/or property damage per occurrence, and such policies shall name CSXT as additional insured. The policy shall include endorsement ISO CG 24 17 evidencing that coverage is provided within 50 feet of a railroad. If such endorsement is not included, railroad protective liability insurance must be provided as described in item 4 below.
2. Statutory Worker's Compensation and Employers Liability Insurance with limits of not less than \$1,000,000, which insurance must contain a waiver of subrogation against CSXT and its affiliates (if permitted by state law).

3. Commercial automobile liability insurance with limits of not less than \$1,000,000 combined single limit for bodily injury and/or property damage per occurrence, and such policies shall name CSXT as additional named insured. The policy shall include endorsement ISO CA 20 70 evidencing that coverage is provided for work within 50 feet of a railroad. If such endorsement is not included, railroad protective liability insurance must be provided as described in item 4 below.
4. Railroad protective liability insurance with limits of not less than \$5,000,000 combined single limit for bodily injury and/or property damage per occurrence and an aggregate annual limit of \$10,000,000, which insurance shall satisfy the following additional requirements:
 - a) The Railroad Protective Liability Insurance must be on the ISO/RIMA Form of Railroad Protective Insurance – Insurance Services Office (ISO) Form CG 00 35.
 - b) CSX Transportation must be the named Insured on the Railroad Protective Liability Insurance Policy.
 - c) Name and Address of the Contractor and Agency must appear on the Declarations page.
 - d) Description of operations and location must appear on the Declarations, and must match the project description.
 - e) Authorized endorsements must include the Pollution Exclusion Amendment – CG 28 31, unless using form CG 00 35 version 96 and later.
 - f) Authorized endorsements may include:
 - (i) Broad Form Nuclear Exclusion – IL 00 21
 - (ii) 30-day Advance Notice of Non-renewal or cancellation
 - (iii) Required State Cancellation Endorsement
 - (iv) Quick Reference or Index Form CL/IL 240
 - g) Authorized endorsements may not include:
 - (i) A Pollution Exclusion Endorsement except CG 28 31
 - (ii) A Punitive or Exemplary Damages Exclusion
 - (iii) A “Common Policy Conditions” Endorsement
 - (iv) Any other endorsement that is not named in 4 (e) or (f) above.
 - (v) Policies that contain any type of deductible
5. All insurance companies must be A.M. Best rated A- and Class VII or better.
6. **The CSX OP number** (found at the top of pg. SC-1) **must appear on each Declarations page and/or Certificate of Insurance. Otherwise, approval from CSX could be delayed or denied.**
7. Such additional or different insurance as CSXT may require.

8. Additional Insurance Terms

1. Contractor must submit the original Railroad Protective Liability policy, Certificates of Insurance and all notices and correspondence regarding insurance policies to:

Insurance Department
CSX Transportation, Inc.
500 Water Street, C-907
Jacksonville, FL. 32202

OR

insurancedocuments@csx.com

with an email copy of all insurance documentation to the following:

Larry J. Shaw, PE | Senior Project Manager-Rail Division
Alfred Benesch & Company (General Engineering Consultant for CSX)
Phone: 317-417-1902
Email: lshaw@benesch.com

2. Contractor may not begin work on the Project until it has received CSXT's written approval of the required insurance.

9. General Insurance Requirements

The insurance hereinbefore specified shall be with an acceptable insurance company authorized to do business in the State of Ohio, and shall be taken out before execution of the Contract by the Director and kept in effect until all work required to be performed under the terms of the contract is satisfactorily completed as evidenced by the formal acceptance by the State. Such policies shall include thirty (30) days canceling notice. The cost of insurance hereinbefore specified will be a specific bid item.

10. To indemnify, defend, and hold CSXT and its affiliates harmless from and against all claims, demands, payments, suits, actions, judgments, settlements, and damages of every nature, degree, and kind (including direct, indirect, consequential, incidental, and punitive damages), for any injury to or death to any person(s) (including, but not limited to the employees of CSXT, its affiliates, the State or the Contractor), for the loss of or damage to any property whatsoever (including but not limited to property owned by or in the care, custody, or control of CSXT, its affiliates, the State or the Contractor, and environmental damages and any related remediation brought or recovered against CSXT and its affiliates), arising directly or indirectly from the negligence, recklessness or intentional wrongful misconduct of the Contractor, the State, and their respective agents, employees, invitees, contractors, or its contractor's agents, employees or invitees in the performance of work in connection with the project or activities incidental thereto, or from their presence on or about CSXT's property.

The foregoing indemnification obligation shall not be limited to the insurance coverage required in paragraph 6 above.

11. The Railroad company will assign, at the sole cost and expense of the Department, railroad flaggers or other protective services and devices as necessary to insure the safety and continuity of the work to be performed as a part of this contract.

Said services and devices will be provided when necessary, as determined by the railroad company, because of any of the Contractor's operations over, under or adjacent to tracks over which trains are operating.

The provision of such protective personnel and devices does not relieve the Contractor from the liability of payment for damage caused by his operations.

Such protection will be required when men or equipment are working within clearances limits of 25 feet of a rail or when work being performed adjacent to operating tracks may present hazards to tracks, train operation, or when equipment does or may infringe upon such limits.

The Contractor will not be permitted to operate any of his own equipment on railroad tracks except under an acceptable arrangement with the railroad company. Such equipment and the operation of such equipment, or equipment rented from the railroad company, shall be arranged for by the Contractor with the railroad and the cost for its use, including protection or railroad traffic, shall be borne by the Contractor.

The Contractor shall notify the following named individual for the railroad company at least 30 days, or as directed by the authorized representative of the Railroad, in advance of starting any work which might require protection:

Mr. David C. Clark
Director Construction Engineering
CSX Transportation, Inc.
Email: David_Clark@csx.com

The Contractor shall notify the railroad at least 5 working days in advance of suspending or ceasing operations that require a flagger, and must provide the Project Name, PID number, railroad line and milepost information and/or AARDOT# at the top of pg. SC-1.

Railroad protective personnel assigned to the project will be responsible for notifying the Engineer upon arrival at the job site on the first working day that protective services begin and on the last day that he performs such services. This will be required for each separate period that such services are provided. The Engineer will document such notification in the project diary.

The Contractor will be responsible for protective services provided at his request and not utilized due, in the opinion of the Engineer, to a change in the Contractor's construction schedule or if it is determined by the Engineer that the requested services were not necessary. The actual costs for such protective services so assessed to the Contractor will be deducted from the Contract.

The decision of the Director of Transportation shall be final in the event of controversy as to the necessity for any protection services provided and not utilized by the Contractor as described in the preceding paragraph.

12. To pay the railroad or owning company for any changes, requested for his convenience, to railroad property, facilities, wire, fiber optic and/or pipe lines other than shown on the plans for the project.

13. If at any time the contractor desires a temporary crossing of the railroad's tracks, he shall make a request for a temporary crossing from the railroad. If approved, he shall arrange with the railroad company, execute its regular form of private grade crossing agreement covering the crossing desired, paying all construction, maintenance, removal, protection and other costs.

14. Methods and procedures for performing work on property of **CSX Transportation, Inc.** must be approved by:

Mr. David C. Clark
Director Construction Engineering
CSX Transportation, Inc.
Email: David_Clark@csx.com

14. The Contractor will be required to follow all terms and conditions of the attached CSX Transportation ***Construction Submission Criteria*** and ***CSXT Special Provisions***.

15. Prior to starting work on CSX Right-of-Way, CSX requires the Contractor to complete the CSX '***Schedule P***' form (located at the end of the '***CSX Special Provisions***' document) and email the completed form to:

Larry J. Shaw, PE | Senior Project Manager-Rail Division
Alfred Benesch & Company (General Engineering Consultant for CSX)
Phone: 317-417-1902
Email: lshaw@benesch.com

with a copy to:

nicole_henning@csx.com

CSX Transportation

CONSTRUCTION SUBMISSION CRITERIA

Public Projects Group
Jacksonville, FL
Date Issued: April 14, 2015

End of Special Clauses

SC-5

Rev041221

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INTRODUCTION

The intent of this document is to guide outside agencies and their Contractors when performing work on, over, or with potential to impact CSXT property (ROW). Work plans shall be submitted for review to the designated CSXT Engineering Representative for all work which presents the potential to affect CSXT property or operations; this document shall serve as a guide in preparing these work plans. All work shall be performed in a manner that does not adversely impact CSXT operations or safety; as such, the requirements of this document shall be strictly adhered to, in addition to all other applicable standards associated with the construction. Applicable standards include, but are not limited to, CSXT Standards and Special Provisions, CSXT Insurance Requirements, CSXT Pipeline Occupancy Criteria, as well as the governing local, county, state and federal requirements. It shall be noted that this document and all other CSXT standards are subject to change without notice, and future revisions will be made available at the CSXT website: www.csx.com.

I. DEFINITIONS

1. *Agency* – The project sponsor (i.e. State DOT, Local Agencies, Private Developer, etc.)
2. *AREMA* – American Railway Engineering and Maintenance-of-Way Association – the North American railroad industry standards group. The use of this term shall be in specific reference to the AREMA Manual for Railway Engineering.
3. *Construction Submission* – The Agency or its representative shall submit six (6) sets of plans, supporting calculations, and detailed means and methods procedures for the specific proposed activity. All plans, specifications, and supporting calculations shall be signed/sealed by a Professional Engineer as defined below.
4. *Controlled Demolition* – Removal of an existing structure or subcomponents in a manner that positively prevents any debris or material from falling, impacting, or otherwise affecting CSXT employees, equipment or property. Provisions shall be made to ensure that there is no impairment of railroad operations or CSXT's ability to access its property at all times.
5. *Contractor* – The Agency's representative retained to perform the project work.
6. *Engineer* – CSXT Engineering Representative or a GEC authorized to act on the behalf of CSXT.
7. *Flagman* – A qualified CSXT employee with the sole responsibility to direct or restrict movement of trains, at or through a specific location, to provide protection for workers.
8. *GEC* – General Engineering Consultant who has been authorized to act on the behalf of CSXT.
9. *Horizontal Clearance* – Distance measured perpendicularly from centerline of any track to the nearest obstruction at any elevation between TOR and the maximum vertical clearance of the track.
10. *Professional Engineer* – An engineer who is licensed in State or Commonwealth in which the project is to occur. All plans, specifications, and supporting calculations shall be prepared by the Licensed Professional Engineer and shall bear his/her seal and signature.
11. *Potential to Foul* – Work having the possibility of impacting CSXT property or operations; defined as one or more of the following:
 - a. Any activity where access onto CSXT property is required.
 - b. Any activity where work is being performed on CSXT ROW
 - c. Any excavation work adjacent to CSXT tracks or facilities, within the Theoretical Railroad Live Load Influence Zone, or where the active earth pressure zone extends within the CSXT property limits.
 - d. The use of any equipment where, if tipped and laid flat in any direction (360 degrees) about its center pin, can encroach within twenty five feet (25'-0") of the nearest track centerline.

This is based upon the proposed location of the equipment during use, and may be a function of the equipment boom length. Note that hoisting equipment with the potential to foul must satisfy the 150% factor of safety requirement for lifting capacities.

- e. Any work where the scatter of debris, or other materials has the potential to encroach within twenty five feet (25'-0") of the nearest track centerline.
 - f. Any work where significant vibration forces may be induced upon the track structure or existing structures located under, over, or adjacent to the track structure.
 - g. Any other work which poses the potential to disrupt rail operations, threaten the safety of railroad employees, or otherwise negatively impact railroad property, as determined by CSXT.
12. *ROW* – Right of Way; Refers to CSXT Right-of-Way as well as all CSXT property and facilities. This includes all aerial space within the property limits, and any underground facilities.
 13. *Submission Review Period* - a minimum of thirty (30) days in advance of start of work. Up to thirty (30) days will be required for the initial review response. Up to an additional thirty (30) days may be required to review any/all subsequent submissions or resubmission.
 14. *Theoretical Railroad Live Load Influence Zone* – A 1 horizontal to 1 vertical theoretical slope line starting at bottom corner of tie.
 15. *TOR* – Top of Rail. This is the base point for clearance measurements. It refers to the crown (top) of the steel rail; the point where train wheels bear on the steel rails.
 16. *Track Structure* – All load bearing elements which support the train. This includes, but is not limited to, the rail, ties, appurtenances, ballast, sub-ballast, embankment, retaining walls, and bridge structures.
 17. *Vertical Clearance* – Distance measured from TOR to the lowest obstruction within six feet (6'-0") of the track centerline, in either direction.

II. GENERAL SUBMISSION REQUIREMENTS

- A. A construction work plan is required to be submitted by the Agency or its Contractor, for review and acceptance, prior to accessing or performing any work with Potential to Foul.
- B. The Agency or its representative shall submit six (6) sets of plans, specifications, supporting calculations, and detailed means and methods procedures for the specific proposed work activity.
- C. Construction submissions shall include all information relevant to the work activity, and shall clearly and concisely explain the nature of the work, how it is being performed, and what measures are being taken to ensure that railroad property and operations are continuously maintained.
- D. All construction plans shall include a map of the work site, depicting the CSXT tracks, the CSXT right of way, proposed means of access, proposed locations for equipment and material staging (dimensioned from nearest track centerline), as well as all other relevant project information. An elevation drawing may also be necessary in order to depict clearances or other components of the work.
- E. Please note that CSXT will not provide pricing to individual contractors involved in bidding projects. Bidding contractors shall request information from the agency and not CSXT.
- F. The Contractor shall install a geotextile fabric ballast protection system to prevent construction or demolition debris and fines from fouling ballast. The geotextile ballast protection system shall be installed and maintained by the Contractor to the satisfaction of the Engineer.
- G. The Engineer shall be kept aware of the construction schedule. The Contractor shall provide timely communication to the Engineer when scheduling the work such that the Engineer may be present during the work. The Contractor's schedule shall not dictate the work plan review schedule, and flagging shall not be scheduled prior to receipt of an accepted work plan.
- H. At any time during construction activities, the Engineer may require revisions to the previously approved procedures to address weather, site conditions or other circumstances that may create a potential hazard to rail operations or CSXT facilities. Such revisions may require immediate interruption or termination of ongoing activities until such time the issue is resolved to the Engineer's satisfaction. CSXT and its GEC shall not be responsible for any additional costs or time claims associated with such revisions.

- I. Blasting will not be permitted to demolish a structure over or within CSXT's right-of-way.

When blasting off of CSXT property but with Potential to Foul, vibration monitoring, track settlement surveying, and/or other protective measures may be required as determined by the Engineer.

- J. Blasting is not permitted adjacent to CSXT right-of-way without written approval from the Chief Engineer, CSXT.
- K. Mechanical and chemical means of rock removal must be explored before blasting is considered. If written permission for the use of explosives is granted, the Agency or Contractor must submit a work plan satisfying the following requirements:
1. Blasting shall be done with light charges under the direct supervision of a responsible officer or employee of the Agency or Contractor.
 2. Electronic detonating fuses shall not be used because of the possibility of premature explosions resulting from operation of two-way train radios.
 3. No blasting shall be done without the presence of an authorized representative of CSXT. Advance notice to the Engineer is required to arrange for the presence of an authorized CSXT representative and any flagging that CSXT may require.
 4. Agency or Contractor must have at the project site adequate equipment, labor and materials, and allow sufficient time, to clean up debris resulting from the blasting and correct any misalignment of tracks or other damage to CSXT property resulting from the blasting. Any corrective measures required must be performed as directed by the Engineer at the Agency's or Contractor's expense without any delay to trains. If Agency's or Contractor's actions result in the delay of any trains including passenger trains, the Agency or Contractor shall bear the entire cost thereof.
 5. The Agency or Contractor may not store explosives on CSXT property.
 6. At any time during blasting activities, the Engineer may require revisions to the previously approved procedures to address weather, site conditions or other circumstances that may create a potential hazard to rail operations or CSXT facilities. Such revisions may require immediate interruption or termination of ongoing activities until such time the issue is resolved to the Engineer's satisfaction. CSXT and its GEC shall not be responsible for any additional costs or time claims associated with such revisions.

III. HOISTING OPERATIONS

- A. All proposed hoisting operations with Potential to Foul shall be submitted in accordance with the following:
1. A plan view drawing shall depict the work site, the CSXT track(s), the proposed location(s) of the lifting equipment, as well as the proposed locations for picking, any intermediate staging, and setting the load(s). All locations shall be dimensioned from centerline of the nearest track. Crane locations shall also be dimensioned from a stationary point at the work site for field confirmation.
 2. Computations showing the anticipated weight of all picks. Computations shall be made based upon the field-verified plans of the existing structure. Pick weights shall account for the weight of concrete rubble or other materials attached to the component being removed; this includes the weight of subsequent rigging devices/components. Rigging components shall be sized for the subsequent pick weight.
 3. All lifting equipment, rigging devices, and other load bearing elements shall have a rated (safe lifting) capacity that is greater than or equal to 150% of the load it is carrying, as a factor of safety. Supporting calculations shall be furnished to verify the minimum capacity requirement is maintained for the duration of the hoisting operation.
 4. Dynamic hoisting operations are prohibited when carrying a load with the Potential to Foul. Cranes or other lifting equipment shall remain stationary during lifting. (i.e. no moving picks).

5. For lifting equipment, the manufacturer's capacity charts, including crane, counterweight, maximum boom angle, and boom nomenclature is to be submitted.
6. A schematic rigging diagram must be provided to clearly call out each rigging component from crane hook to the material being hoisted. Copies of catalog or information sheets shall be provided to verify rigging weights and capacities.
7. For built-up rigging devices, the contractor shall submit the following:
 - i. Details of the device, calling out material types, sizes, connections and other properties.
 - ii. Load test certification documents and/or design computations bearing the seal and signature of a Professional Engineer. Load test shall be performed in the configuration of its intended use as part of the subject demolition procedure.
 - iii. Copies of the latest inspection reports of the rigging device. The device shall be inspected within one (1) calendar year of the proposed date for use.
8. A detail shall be provided showing the crane outrigger setup, including dimensions from adjacent slopes or facilities. The detail shall indicate requirements for bearing surface preparation, including material requirements and compaction efforts. As a minimum, outriggers and/or tracks shall bear on mats, positioned on level material with adequate bearing capacity.
9. A complete written narrative that describes the sequence of events, indicating the order of lifts and any repositioning or re-hitching of the crane(s).

IV. DEMOLITION PROCEDURE

- A. The Agency or its Contractor shall submit a detailed procedure for a controlled demolition of any structure on, over, or adjacent to the ROW. The controlled demolition procedure must be approved by the Engineer prior to beginning work on the project.
- B. Existing Condition of structure being demolished:
1. The Contractor shall submit as-built plans for the structure(s) being demolished.
 2. If as-built plans are unavailable, the Contractor shall perform an investigation of the structure, including any foundations, substructures, etc. The field measurements are to be made under the supervision of the Professional Engineer submitting the demolition procedure. Findings shall be submitted as part of the demolition means and methods submittal for review by the Engineer.
 3. Any proposed method for temporary stabilization of the structure during the demolition shall be based on the existing plans or investigative findings, and submitted as part of the demolition means and methods for review by the Engineer.
- C. Demolition work plans shall include a schematic plan depicting the proposed locations of the following, at various stages of the demolition:
1. All cranes and equipment, calling out the operating radii.
 2. All proposed access and staging locations with all dimensions referenced from the center line of the nearest track.
 3. Proposed locations for stockpiling material or locations for truck loading.
 4. The location, with relevant dimensions, of all tracks, other railroad facilities; wires, poles, adjacent structures, or buried utilities that could be affected, showing that the proposed lifts are clear of these obstructions.
 5. Note that no crane or equipment may be set on the CSXT rails or track structure and no material may be dropped on CSXT property.
- D. Demolition submittal shall also include the following information:
1. All hoisting details, as dictated by Section III of this document.
 2. A time schedule for each of the various stages must be shown as well as a schedule for the entire lifting procedure. The proposed time frames for all critical subtasks (i.e., torch/saw cutting various portions of the superstructure or substructure, dismantling splices, installing temporary bracing, etc.) shall be furnished so that the potential impact(s) to CSXT operations may be assessed and eliminated or minimized.
 3. The names and experience of the key Contractor personnel involved in the operation shall be included in the Contractor's means and methods submission.

4. Design and supporting calculations shall be prepared, signed, and sealed by the Professional Engineer for items including the temporary support of components or intermediate stages shall be submitted for review. A guardrail will be required to be installed in a track in the proximity of temporary bents or shoring towers, when located within twelve feet (12'-0") from the centerline of the track. The guardrail will be installed by CSXT forces, at the expense of the Agency or its contractor.
- E. Girders or girder systems shall be stable at all times during demolition. Temporary bracing shall be provided at the piers, abutments, or other locations to resist overturning and/or buckling of the member(s). The agency shall submit a design and details of the proposed temporary bracing system, for review by the Engineer. Lateral wind forces for the temporary conditions shall be considered in accordance with AREMA, Chapter 8, Section 28.6.2. The minimum lateral wind pressure shall be fifteen pounds per square foot (15 psf).
 - F. Existing, obsolete, bridge piers shall be removed to a minimum of three feet (3'-0") below the finished grade, final ditch line invert, or as directed by the Engineer.
 - G. A minimum quantity of twenty five (25) tons of CSXT approved granite track ballast may be required to be furnished and stockpiled on site by the Contractor, or as directed by the Engineer.
 - H. The use of acetylene gas is prohibited for use on or over CSXT property. Torch cutting shall be performed utilizing other materials such as propane.
 - I. CSXT's tracks, signals, structures, and other facilities shall be protected from damage during demolition of existing structure or replacement of deck slab.
 - J. Demolition Debris Shield
 1. On-track or ground-level debris shields (such as crane mats) are prohibited for use by CSXT.
 2. Demolition Debris Shield shall be installed prior to the demolition of the bridge deck or other relevant portions of the structure. The demolition debris shield shall be erected from the underside of the bridge over the track area to catch all falling debris. The debris shield shall not be the primary means of debris containment.
 - i. The demolition debris shield design and supporting calculations, all signed/sealed by a Professional Engineer, shall be submitted for review and acceptance.
 - ii. The demolition debris shield shall have a minimum design load of 50 pounds per square foot (50 psf) plus the weight of the equipment, debris, personnel, and all other loads.
 - iii. The Contractor shall verify the maximum particle size and quantity of the demolition debris generated during the procedure does not exceed the shield design loads. Shield design shall account for loads induced by particle impact; however the demolition procedure shall be such that impact forces are minimized. The debris shield shall not be the primary means of debris containment.
 - iv. The Contractor shall include installation/removal means and methods for the demolition debris shield as part of the proposed Controlled Demolition procedure submission.
 - v. The demolition debris shield shall provide twenty three feet (23'-0") minimum vertical clearance, or maintain the existing vertical clearance if the existing clearance is less than twenty three feet (23'-0").
 - vi. Horizontal clearance to the centerline of the track should not be reduced unless approved by the Engineer.
 - vii. The Contractor shall clean the demolition debris shield daily or more frequently as dictated either by the approved design parameters or as directed by the Engineer.
 - K. Vertical Demolition Debris Shield
 1. This type of shield may be required for substructure removals in close proximity to CSXT track and other facilities, as determined by the Engineer.
 2. The Agency or its Contractor shall submit detailed plans with detailed calculations, prepared, signed, and sealed by a Professional Engineer, of the protection shield.

V. ERECTION PROCEDURE

- A. The Agency or its Contractor shall submit a detailed procedure for erection of a structure with Potential to Foul. The erection procedure must be approved by the Engineer prior to beginning work on the project.
- B. Erection work plans shall include a schematic plan depicting the following, at all stages of the construction:
 1. All proposed locations of all cranes and equipment, calling out the operating radii.
 2. All proposed access and staging locations with all dimensions referenced from the center line of the nearest track.
 3. All proposed locations for stockpiling material or locations for truck loading.
 4. The location, with relevant dimensions, of all tracks, other railroad facilities; wires, poles, adjacent structures, or buried utilities that could be affected, showing that the proposed lifts are clear of these obstructions.
- C. No crane or equipment may be set on the CSXT rails or track structure and no material may be dropped on CSXT property.
- D. For erection of a structure over the tracks, the following information shall be submitted for review and acceptance by the Engineer, at least thirty (30) days prior to erection:
 1. As-built beam seat elevations – field surveyed upon completion of pier/abutment construction.
 2. Current Top of Rail (TOR) elevations – field measured at the time of as-built elevation collection.
 3. Computations verifying the anticipated minimum vertical clearance in the final condition which accounts for all deflection and camber, based upon the current TOR and as-built beam seat elevations. The anticipated minimum vertical clearance shall be greater than or equal to that which is indicated by the approved plans. Vertical clearance (see definitions) is measured from TOR to the lowest point on the overhead structure at any point within six feet (6'-0") from centerline of the track. Calculations shall be signed and sealed by a Professional Engineer.
- E. Girders or girder systems shall be stable at all times during erection. No crane may unhook prior to stabilizing the beam or girder.
 1. Lateral wind forces for the temporary conditions shall be considered in accordance with AREMA, Chapter 8, Section 28.6.2. The minimum lateral wind pressure shall be fifteen pounds per square foot (15 psf).
 2. Temporary bracing shall be provided at the piers, abutments, or other locations to resist overturning and/or buckling of the member(s). The agency shall submit a design and details of the proposed temporary bracing system, for review by the Engineer.
 3. Temporary bracing shall not be removed until sufficient lateral bracing or diaphragm members have been installed to establish a stable condition. Supporting calculations, furnished by the Professional Engineer, shall confirm the stable condition.
- F. Erection procedure submissions shall also include the following information:
 1. All hoisting details, as dictated by Section III of this document.
 2. A time schedule for each of the various stages must be shown as well as a schedule for the entire lifting procedure. The proposed time frames for all critical subtasks (i.e. performing aerial splices, installing temporary bracing, installation of diaphragm members, etc.) shall be furnished so that the potential impact(s) to CSXT operations may be assessed and eliminated or minimized.
 3. The names and experience of the key Contractor personnel involved in the operation shall be included in the Contractor's means and methods submission.
 4. A guardrail will be required to be installed in a track in the proximity of temporary bents or shoring towers, when located within twelve feet (12'-0") from the centerline of the track. The guardrail will be installed by CSXT forces, at the expense of the Agency or its Contractor.
 5. Design and supporting calculations prepared by the Professional Engineer for items including the temporary support of components or intermediate stages shall be submitted for review.

VI. TEMPORARY EXCAVATION AND SHORING

- A. The Agency or its Contractor shall submit a detailed design and procedure for the installation of a sheeting/shoring system adjacent to the tracks. Shoring protection shall be provided when excavating with Potential to Foul, or as otherwise determined by CSXT. Shoring shall be provided in accordance with the AREMA, except as noted below.

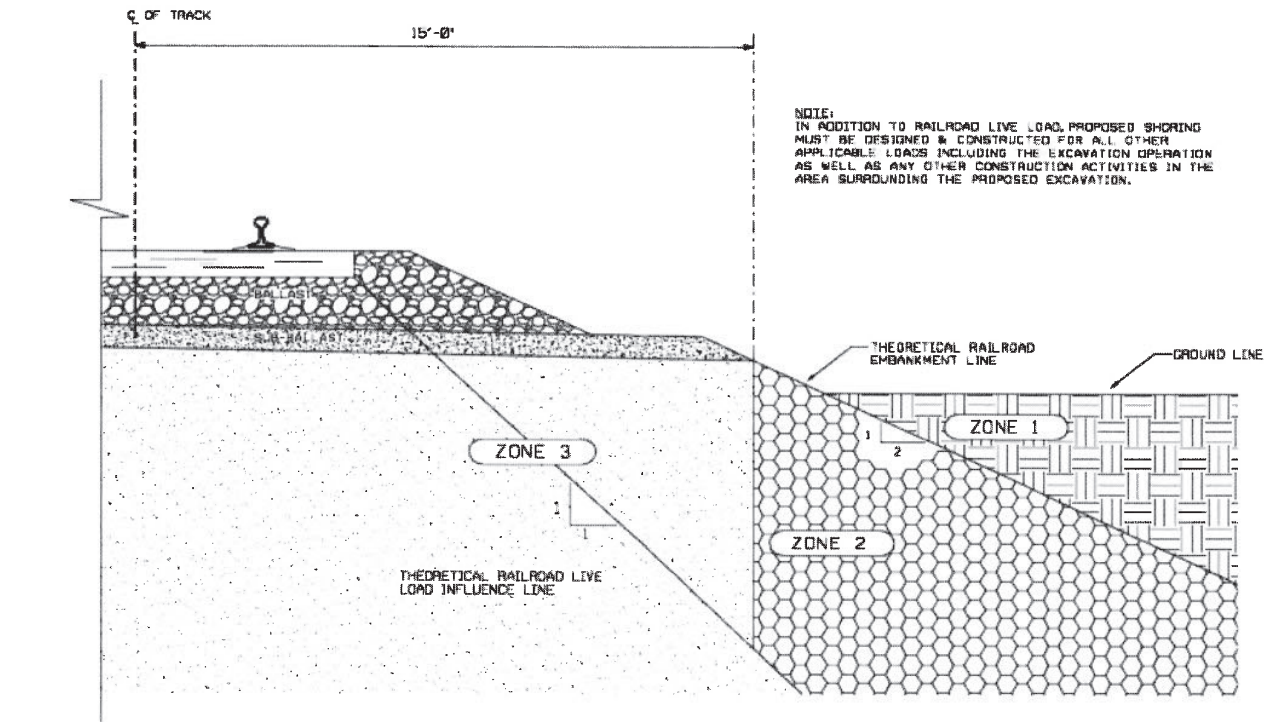
- B. Shoring may not be required if all of the following conditions are satisfied:
1. The excavation does not encroach within the Theoretical Live Load Influence Zone. Please refer to Figure 1.
 2. The track structure is situated on level ground, or in a cut section, and on stable soil.
 3. The excavation does not adversely impact the stability of a CSXT facility (i.e. signal bungalow, drainage facility, under grade bridge, building, etc), or the stability of any structure on, over, or adjacent to CSXT property with potential to foul.
 4. Shoring is not required by any governing federal, state, local or other construction code.
- C. Shoring is required when excavating the toe of an embankment. Excavation of any embankment which supports an active CSXT track structure without shoring will not be permitted.
- D. Trench boxes are not an acceptable means of shoring. Trench boxes are prohibited for use on CSXT property or within the Theoretical Railroad Live Load Influence Zone.
- E. Shoring shall be a cofferdam-type, which completely encloses the excavation. However, where justified by site or work conditions, partial cofferdams with open sides away from the track may be permissible, as determined by the Engineer.
- F. Cofferdams shall be constructed using interlocking steel sheet piles, or when approved by the Engineer, steel soldier piles with timber lagging. Wales and struts shall be included when dictated by the design.
- G. The use of tiebacks can be permissible for temporary shoring systems, when conditions warrant. Tiebacks shall have a minimum clear cover of 6'-0", measured from the bottom of the rail. Upon completion of the work, tiebacks shall be grouted, cut off, and remain in place.
- H. All shoring systems on, or adjacent to CSXT right-of-way, shall be equipped with railings or other fall protection, compliant with the governing federal, state or local requirements. Area around pits shall be graded to eliminate all potential tripping hazards.
- I. Interlocking steel sheet piles shall be used for shoring systems qualifying one or more of the following conditions:
1. Within 18'-0" of the nearest track centerline
 2. Within the live load influence zone
 3. Within slopes supporting the track structure
 4. As otherwise deemed necessary by the Engineer.
- J. Sheet piles qualifying for one or more of the requirements listed in Section VI.I (above) of this document shall not be removed. Sheet piles shall be left in place and cut off a minimum of 3'-0" below the finished grade, the ditch line invert, or as otherwise directed by the Engineer. The ground shall be backfilled and compacted immediately after sheet pile is cut off.
- K. The following design considerations shall be considered when preparing the shoring design package:
1. Shoring shall be designed to resist a vertical live load surcharge of 1,880 lbs. per square foot, in addition to active earth pressure. The surcharge shall be assumed to act on a continuous strip, eight feet six inches (8'-6") wide. Lateral pressures due to surcharge shall be computed using the strip load formula shown in *AREMA Manual for Railway Engineering*, Chapter 8, Part 20.
 2. Allowable stresses in materials shall be in accordance with AREMA Chapter 7, 8, and 15.3.
 3. A minimum horizontal clearance of ten feet (10'-0") from centerline of the track to face of nearest point of shoring shall be maintained, provided a twelve feet (12'-0") roadbed is maintained with a temporary walkway and handrail system.
 4. For temporary shoring systems with Potential to Foul, piles shall be plumb under full dead load. Maximum deflection at the top of wall, under full live load, shall be as follows:
 - i. One-half (½) inch for walls within twelve feet (12'-0") of track centerline (Measured from centerline of the nearest track to the nearest point of the supporting structure).
 - ii. One (1) inch for walls located greater than twelve feet (12'-0") from track centerline
- L. Shoring work plans shall be submitted in accordance with Section II of this document, as well as the following additional requirements:




1. The work plan shall include detailed drawings of the shoring systems calling out the sizes of all structural members, details of all connections. Both plan and elevation drawings shall be provided, calling out dimensions from the face of shoring relative to the nearest track centerline. The elevation drawing shall also show the height of shoring, and track elevation in relation to bottom of excavation
2. Full design calculations for the shoring system shall be furnished.
3. A procedure for cutting off the sheet pile, backfilling and restoring the embankment.

VII. TRACK MONITORING

- A. When work being performed has the potential to disrupt the track structure, a work plan must be submitted detailing a track monitoring program which will serve to monitor and detect both horizontal and vertical movement of the CSXT track and roadbed.
- B. The program shall specify the survey locations, the distance between the location points, and frequency of monitoring before, during, and after construction. CSXT reserves to the right to modify the survey locations and monitoring frequency as necessary during the project.
- C. The survey data shall be collected in accordance with the approved frequency and immediately furnished to the Engineer for analysis.
- D. If any movement has occurred as determined by the Engineer, CSXT will be immediately notified. CSXT, at its sole discretion, shall have the right to immediately require all contractor operations to be ceased, have the excavated area immediately backfilled and/or determine what corrective action is required. Any corrective action required by CSXT or performed by CSXT including the monitoring of corrective action of the contractor will be at project expense.

FIGURE 1: Theoretical Live Load Influence Zone



- NORMAL REQUIREMENTS FOR SHORING ADJACENT TO TRACK**
-  ZONE 1 - EXCAVATIONS ABOVE AND OUTSIDE OF THE THEORETICAL RAILROAD EMBANKMENT LINE - DO NOT NORMALLY REQUIRE SHORING TO PROTECT RAILROAD ROADBED, SHORING MAY BE REQUIRED FOR OTHER REASONS.
 -  ZONE 2 - EXCAVATIONS WHOSE BOTTOMS EXTEND INTO ZONE 2 REQUIRE SHORING, BUT THE SHORING MAY NORMALLY BE PULLED AFTER THE EXCAVATION HAS BEEN BACKFILLED.
 -  ZONE 3 - EXCAVATIONS WHOSE BOTTOMS EXTEND INTO ZONE 3 WILL NORMALLY REQUIRE THE SHORING TO BE LEFT IN PLACE AND CUT-OFF 3' BELOW BASE OF RAIL. SHORING MUST BE DESIGNED FOR COOPER E88 LIVE LOAD.

CSX Transportation

CSXT SPECIAL PROVISIONS

Public Projects Group
Jacksonville, FL
Date Issued: July 2017

End of CSX Construction Submission Criteria

CSXT SPECIAL PROVISIONS

AUTHORITY OF CSXT ENGINEER

The CSXT Representative shall have final authority in all matters affecting the safe maintenance of CSXT operations and CSXT property, and his or her approval shall be obtained by the Agency or its Contractor for methods of construction to avoid interference with CSXT operations and CSXT property and all other matters contemplated by the Agreement and these Special Provisions.

II. INTERFERENCE WITH CSXT OPERATIONS

A. Agency or its Contractor shall arrange and conduct its work so that there will be no interference with CSXT operations, including train, signal, telephone and telegraphic services, or damage to CSXT's property, or to poles, wires, and other facilities of tenants on CSXT's Property or right-of-way. Agency or its Contractor shall store materials so as to prevent trespassers from causing damage to trains, or CSXT Property. Whenever Work is likely to affect the operations or safety of trains, the method of doing such Work shall first be submitted to the CSXT Representative for approval, but such approval shall not relieve Agency or its Contractor from liability in connection with such Work.

B. If conditions arising from or in connection with the Project require that immediate and unusual provisions be made to protect train operation or CSXT's property, Agency or its Contractor shall make such provision. If the CSXT Representative determines that such provision is insufficient, CSXT may, at the expense of Agency or its Contractor, require or provide such provision as may be deemed necessary, or cause the Work to cease immediately.

III. NOTICE OF STARTING WORK. Agency or its Contractor shall not commence any work on CSXT Property or rights-of-way until it has complied with the following conditions:

A. Notify CSXT in writing of the date that it intends to commence Work on the Project. Such notice must be received by CSXT at least 10 business days in advance of the date Agency or its Contractor proposes to begin Work on CSXT property. The notice must refer to this Agreement by date. If flagging service is required, such notice shall be submitted at least thirty (30) business days in advance of the date scheduled to commence the Work.

B. Obtain authorization from the CSXT Representative to begin Work on CSXT property, such authorization to include an outline of specific conditions with which it must comply.

C. Obtain from CSXT the names, addresses and telephone numbers of CSXT's personnel who must receive notice under provisions in the Agreement. Where more than one individual is designated, the area of responsibility of each shall be specified.

IV. WORK FOR THE BENEFIT OF THE CONTRACTOR

A. No temporary or permanent changes to wire lines or other facilities (other than third party fiber optic cable transmission systems) on CSXT property that are considered necessary to the Work are anticipated or shown on the Plans. If any such changes are, or become, necessary in the opinion of CSXT or Agency, such changes will be covered by appropriate revisions to the Plans and by preparation of a force account estimate. Such force account estimate may be initiated by either CSXT or Agency, but must be approved by both CSXT and Agency. Agency or Contractor shall be responsible for arranging for the relocation of the third party fiber optic cable transmission systems, at no cost or expense to CSXT.

B. Should Agency or Contractor desire any changes in addition to the above, then it shall make separate arrangements with CSXT for such changes to be accomplished at the Agency or Contractor's expense.

V. HAUL ACROSS RAILROAD

A. If Agency or Contractor desires access across CSXT property or tracks at other than an existing and open public road crossing in or incident to construction of the Project, the Agency or Contractor must first obtain the permission of CSXT and shall execute a license agreement or right of entry satisfactory to CSXT, wherein Agency or Contractor agrees to bear all costs and liabilities related to such access.

B. Agency and Contractor shall not cross CSXT's property and tracks with vehicles or equipment of any kind or character, except at such crossing or crossings as may be permitted pursuant to this section.

VI. COOPERATION AND DELAYS

A. Agency or Contractor shall arrange a schedule with CSXT for accomplishing stage construction involving work by CSXT. In arranging its schedule, Agency or Contractor shall ascertain, from CSXT, the lead time required for assembling crews and materials and shall make due allowance therefor.

B. Agency or Contractor may not charge any costs or submit any claims against CSXT for hindrance or delay caused by railroad traffic; work done by CSXT or other delay incident to or necessary for safe maintenance of railroad traffic; or for any delays due to compliance with these Special Provisions.

C. Agency and Contractor shall cooperate with others participating in the construction of the Project to the end that all work may be carried on to the best advantage.

D. Agency and Contractor understand and agree that CSXT does not assume any responsibility for work performed by others in connection the Project. Agency and Contractor further understand and agree that they shall have no claim whatsoever against CSXT for any inconvenience, delay or additional cost incurred by Agency or Contractor on account of operations by others.

VIII. STORAGE OF MATERIALS AND EQUIPMENT

Agency and Contractor shall not store their materials or equipment on CSXT's property or where they may potentially interfere with CSXT's operations, unless Agency or Contractor has received CSXT Representative's prior written permission. Agency and Contractor understand and agree that CSXT will not be liable for any damage to such materials and equipment from any cause and that CSXT may move, or require Agency or Contractor to move, such material and equipment at Agency's or Contractor's sole expense. To minimize the possibility of damage to the railroad tracks resulting from the unauthorized use of equipment, all grading or other construction equipment that is left parked near the tracks unattended by watchmen shall be immobilized to the extent feasible so that it cannot be moved by unauthorized persons.

VIII. CONSTRUCTION PROCEDURES

A. General

1. Construction work on CSXT property shall be subject to CSXT's inspection and approval.

2. Construction work on CSXT property shall be in accord with CSXT's written outline of specific conditions and with these Special Provisions.

3. Contractor shall observe the terms and rules of the CSXT Safe Way manual, which Agency and Contractor shall be required to obtain from CSXT, and in accord with any other instructions furnished by CSXT or CSXT's Representative.

B. Blasting

1. Agency or Contractor shall obtain CSXT Representative's and Agency Representative's prior written approval for use of explosives on or adjacent to CSXT property. If permission for use of explosives is granted, Agency or Contractor must comply with the following:

a. Blasting shall be done with light charges under the direct supervision of a responsible officer or employee of Agency or Contractor.

b. Electric detonating fuses shall not be used because of the possibility of premature explosions resulting from operation of two-way train radios.

c. No blasting shall be done without the presence of an authorized representative of CSXT. At least 30 days' advance notice to CSXT Representative is required to arrange for the presence of an authorized CSXT representative and any flagging that CSXT may require.

d. Agency or Contractor must have at the Project site adequate equipment, labor and materials, and allow sufficient time, to (i) clean up (at Agency's expense) debris resulting from the blasting without any delay to trains; and (ii) correct (at Agency's expense) any track misalignment or other damage to CSXT's property resulting from the blasting, as directed by CSXT Representative, without delay to trains. If Agency's or Contractor's actions result in delay of any trains, including Amtrak passenger trains, Agency shall bear the entire cost thereof.

e. Agency and Contractor shall not store explosives on CSXT property.

2. CSXT Representative will:

a. Determine the approximate location of trains and advise Agency or Contractor of the approximate amount of time available for the blasting operation and clean-up.

b. Have the authority to order discontinuance of blasting if, in his or her opinion, blasting is too hazardous or is not in accord with these Special Provisions.

IX. MAINTENANCE OF DITCHES ADJACENT TO CSXT TRACKS

Agency or Contractor shall maintain all ditches and drainage structures free of silt or other obstructions that may result from their operations. Agency or Contractor shall provide erosion control measures during construction and use methods that accord with applicable state standard specifications for road and bridge construction, including either (1) silt fence; (2) hay or straw barrier; (3) berm or temporary ditches; (4) sediment basin; (5) aggregate checks; and (6) channel lining. All such maintenance and repair of damages due to Agency's or Contractor's operations shall be performed at Agency's expense.

X. FLAGGING / INSPECTION SERVICE

A. CSXT has sole authority to determine the need for flagging required to protect its operations and property. In general, flagging protection will be required whenever Agency or Contractor or their equipment are, or are likely to be, working within fifty (50) feet of live track or other track clearances specified by CSXT, or over tracks.

B. Agency shall reimburse CSXT directly for all costs of flagging that is required on account of construction within CSXT property shown in the Plans, or that is covered by an approved plan revision, supplemental agreement or change order.

C. Agency or Contractor shall give a minimum of 30 days' advance notice to CSXT Representative for anticipated need for flagging service. No work shall be undertaken until the flag person(s) is/are at the job site. If it is necessary for CSXT to advertise a flagging job for bid, it may take up to 90-days to obtain this service, and CSXT shall not be liable for the cost of delays attributable to obtaining such service.

D. CSXT shall have the right to assign an individual to the site of the Project to perform inspection service whenever, in the opinion of CSXT Representative, such inspection may be necessary. Agency shall reimburse CSXT for the costs incurred by CSXT for such inspection service. Inspection service shall not relieve Agency or Contractor from liability for its Work.

E. CSXT shall render invoices for, and Agency shall pay for, the actual pay rate of the flagpersons and inspectors used, plus standard additives, whether that amount is above or below the rate provided in the Estimate. If the rate of pay that is to be used for inspector or flagging service is changed before the work is started or during the progress of the work, whether by law or agreement between CSXT and its employees, or if the tax rates on labor are changed, bills will be rendered by CSXT and paid by Agency using the new rates. Agency and Contractor shall perform their operations that require flagging protection or inspection service in such a manner and sequence that the cost of such will be as economical as possible.

XI. UTILITY FACILITIES ON CSXT PROPERTY

Agency shall arrange, upon approval from CSXT, to have any utility facilities on or over CSXT Property changed as may be necessary to provide clearances for the proposed trackage.

XII. CLEAN-UP

Agency or Contractor, upon completion of the Project, shall remove from CSXT's Property any temporary grade crossings, any temporary erosion control measures used to control drainage, all machinery, equipment, surplus materials, falsework, rubbish, or temporary buildings belonging to Agency or Contractor. Agency or Contractor, upon completion of the Project, shall leave CSXT Property in neat condition, satisfactory to CSXT Representative.

XIII. FAILURE TO COMPLY

If Agency or Contractor violate or fail to comply with any of the requirements of these Special Provisions, (a) CSXT may require Agency and/or Contractor to vacate CSXT Property; and (b) CSXT may withhold monies due Agency and/or Contractor; (c) CSXT may require Agency to withhold monies due Contractor; and (d) CSXT may cure such failure and the Agency shall reimburse CSXT for the cost of curing such failure.

End of CSX Special Provisions

ACCT. CODE : 709 - OH1339

Form Revision
10/07/19

ESTIMATE SUBJECT TO REVISION AFTER: 9/3/2021 DOT NO.: 228 895F
 CITY: Columbus COUNTY: Franklin STATE: OH
 DESCRIPTION: I-70/71 Interchange Modification - Includes Removal & Replacement of I-70/71 WB Ramp over CSXT & NS. Also see OP#s OH1340 (I-70 EB ML), OH1312 (I-70 WB ML) & OH1298 (I-70 EB Ramp).
 ZONE: Great Lakes SUB-DIV: Columbus MILE POST: CK-1.74
 AGENCY PROJECT NUMBER: FRA-71-14.36 Phase 6R; PID 105588; Bridge FRA-71-1503L

PRELIMINARY ENGINEERING:

212	Contracted & Administrative Engineering Services	\$	-
	Subtotal	\$	-

CONSTRUCTION ENGINEERING/INSPECTION:

212	Contracted & Administrative Engineering Services	\$	80,000
	Subtotal	\$	80,000

FLAGGING SERVICE: (Contract Labor)

70	Labor (Conductor-Flagman)	Days @	\$	-
50	Labor (Foreman/Inspector)	378 Days @ \$ 504.00	\$	190,512
70	Additive (Transportation Department)		\$	-
50	Additive 149.90% (Engineering Department)		\$	285,577
230	Expenses (Engineering Department)	378 Days @ \$ 75.00	\$	28,350
230	Expenses (Transportation Department)	Days @	\$	-
	Subtotal		\$	504,439

SIGNAL & COMMUNICATIONS WORK:

\$ -

TRACK WORK:

\$ -

PROJECT SUBTOTAL:

\$ 584,439

900	CONTINGENCIES:	10.00%	\$	58,444
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PROJECT TOTAL:

\$ 642,883

CURRENT AUTHORIZED BUDGET:

\$ -

TOTAL SUPPLEMENT REQUESTED:

\$ 642,883

DIVISION OF COST:

Agency	100.00%	\$	642,883
Railroad	0.00%	\$	-

NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by: Benesch Approved by: 0 CSXT Public Project Group

DATE: 09/03/20 REVISED: 01/00/00 DATE: 01/00/00

Columbus, Franklin County, Ohio
FRA-71-14.36 (Proj. 6R); PID 105588
CSX Transportation, Inc.
CSXT Milepost: CK-1.72+/-
CSXT OP# OH 1339

SCHEDULE I

CONTRACTOR'S ACCEPTANCE

To and for the benefit of CSX Transportation, Inc. ("CSXT") and to induce CSXT to permit Contractor on or about CSXT's property for the purposes of performing work in accordance with the Agreement No. 31540 dated February 26, 2020, between the Ohio Department of Transportation and CSXT, Contractor hereby agrees to abide by and perform all applicable terms of the Agreement, including the Special Clauses In The Proposal.

Contractor: _____

By: _____

Name: _____

Title: _____

Date: _____