

**PUBLIC ROAD CROSSING LICENSE AGREEMENT
M2010012**

This Public Road Crossing License Agreement (this “**Agreement**”), is made by and between Capital Metropolitan Transportation Authority (“**Licensor**”), a political subdivision of the State of Texas organized and existing under Chapter 451, Texas Transportation Code, whose address is 700 Lavaca Street, Suite 1400, Austin, Texas 78701, and Williamson County, a county of the State of Texas (“**Licensee**”), whose address is 3151 S. E. Inner Loop, Suite B, Georgetown, Texas 78626. Licensor and Licensee are referred to in this Agreement individually as a “**Party**” and collectively as the “**Parties**”.

RECITALS

- A.** Licensor maintains 162 miles of railroad right-of-way (“**Railroad ROW**”) including the track, track support structures and the real property in the counties of Bastrop, Burnet, Lee, Llano, Travis and Williamson, Texas (collectively the “**Giddings-Llano Line**”).
- B.** Licensee desires to construct, modify, maintain and use a public road crossing (the “**Crossing**”) over the Giddings-Llano Line within the portion of the Railroad ROW located at Latitude 30°40'34.95"N, Longitude 97°55'56.75"W and Mile Post 95.3, in Liberty Hill, Williamson County, Texas as described in **Exhibit “A”** attached hereto (the “**Crossing Area**”), which may include modifications and relocation of the existing grade crossing warning system, and the construction of sidewalks and culverts (collectively, the “**Improvements**”). The term “public road crossing” or “Crossing” shall include the concrete crossing material, pavement, grading, barricades, street lighting, drainage, facilities, signs, pavement markings, active warning devices/signals and approaches.
- C.** Licensor desires to grant Licensee the right to construct, maintain and use the Crossing over the Giddings-Llano Line subject to the terms set forth below.

AGREEMENT

For and in consideration of the mutual promises, covenants, obligations and benefits contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. LICENSE GRANT

Licensor, subject to the conditions, limitations and reservations hereinafter set forth, hereby grants Licensee a non-exclusive license in, on, over, through and across the Crossing Area, for the limited purpose of constructing, maintaining, using, and repairing the Crossing over and across the Crossing Area for the Permitted Use (defined below). In consideration of the license granted herein, Licensee, on behalf of itself and its successors and assigns, acknowledges that any prior use of the Crossing by Licensee or its predecessors in interest was with the permission of Licensor and was not adverse to the rights of Licensor, and Licensee on behalf of itself and its successors and assigns hereby terminates and releases any and all rights of access over the Crossing Area that were or could have been acquired through prescriptive or other implied rights. The foregoing release shall be included in the Memorandum of License attached hereto as **Exhibit “D”**.

2. MAINTENANCE AND USE OF THE CROSSING AREA

- (a) Compliance with Laws.** Licensee shall strictly comply with all applicable federal, state, municipal and other governmental regulations in Licensee’s use of the Crossing and in the exercise of any

rights granted to Licensee hereunder. Licensee shall immediately send Licensor copies of any notices received from public or government authorities relating to the Crossing.

(b) **Required Approvals.** Licensee shall, at its sole cost and expense, obtain all necessary governmental approvals and permits for Licensee's use of the Crossing. Licensee shall provide evidence of such easements, licenses, approvals and permits to Licensor immediately upon request by Licensor. Licensee shall, where necessary, pay to have present at the time of construction, contractors designated by Licensor to oversee the construction activities ("**RWIC**") at the rates set at the time of construction

(c) **Use.** Licensee represents and warrants to Licensor that the Crossing shall be used for the construction, modification, maintenance and use of a public road in accordance with the terms of this Agreement (the "**Permitted Use**"). Licensee shall (i) not change the use of the Crossing to a use other than the Permitted Use without the prior written consent of Licensor, and (ii) take any and all necessary actions to preserve the public character of the Crossing and to prevent the use of the Crossing for other purposes, at its sole cost and expense.

(d) **Design, Construction, Operation and Maintenance.**

- i. **Performance by Pre-Approved Contractors.** Except as otherwise required by applicable state or federal procurement laws, rules or regulations (together, "**Procurement Laws**"), Licensee hereby agrees that the design, construction, modification and maintenance of the Crossing shall be performed by approved vendors on Licensor's design and construction firms list attached hereto as **Exhibit "B"** (the "**Pre-Approved Contractors**") who have the special expertise needed to design, construct and, where applicable, relocate and activate the Improvements (the "**Work**") at Licensee's sole cost and expense. Licensor reserves the right to modify the Pre-Approved Contractor list at its sole discretion with reasonable notice to the Licensee.
- ii. **Performance by Alternative Contractors.** In the event Procurement Laws prohibit Licensee from using Pre-Approved Contractors to perform all or a portion of the Work, Licensee may select qualified design and/or construction contractors of its choosing through its normal procurement process (the "**Alternative Contractors**").
- iii. **Approval of Plans and Specifications.** During the design phase and prior to commencing any Work on the Crossing Area, Licensee must submit copies of the design plans and specifications ("**Plans and Specifications**") to Licensor for review and written approval. The Plans and Specifications must be approved by State-certified engineers. If any part of the Plans and Specifications is performed by an Alternative Contractor, Licensor reserves the right to have Licensor's contractor review the Alternative Contractor's designs at Licensee's sole cost and expense (the "**Design Review**"). Design Review shall be completed and payment for the Design Review, as applicable, shall be made in advance at 30%, 60%, 90% and 100% completion of the Plans and Specifications. By reviewing the Plans and Specifications, neither Licensor nor its contractor assume Licensee's responsibility for the design. Licensee shall bear all costs arising from the discovery of any errors, inconsistencies or omissions in the Plans and Specifications, including those identified during the Design Review.
- iv. **Approval of Construction Plans.** It is agreed that Licensor shall have absolute approval authority over the final design of the Crossing. During the design phase and prior to commencing construction on the Crossing Area, a copy of the construction plans ("**Construction Plans**") showing the exact location, type and depth of the construction, any

cathodic protection measures and any working area, shall be submitted for written approval to Licensor. Such approval shall not be unreasonably withheld. No Work shall commence until the Construction Plans have been approved by Licensor.

- v. **Remediation Process.** Licensor's failure to provide comments or approval of the Plans and Specifications or Construction Plans within ten (10) business days after Licensee's submittal of same shall be deemed as disapproval thereof. If the Plans and Specifications or Construction Plans are returned to Licensee with comments, but not bearing approval of Licensor, the Plans and Specifications or Construction Plans, as applicable, shall be immediately revised by Licensee and resubmitted to Licensor for approval within ten (10) business days of their receipt by Licensee. If Licensor disapproves the revised Plans and Specifications or Construction Plans, Licensee shall further revise the Plans and Specifications or Construction Plans, as applicable, to meet Licensor's objections, if any, and resubmit the further revised Plans and Specifications or Construction Plans to Licensor for its review and approval. The foregoing procedure shall be repeated until the Plans and Specifications are approved in accordance with the terms of this Agreement.
- vi. **Construction Inspection and Testing.**
 - a. If any part of the Work is performed by an Alternative Contractor, Licensor reserves the right to inspect and test, or have its contractor inspect and test the Alternative Contractor's Work at Licensee's sole cost and expense. If Licensor in its sole discretion determines that the Work is unacceptable, Licensor may elect to remediate the Work, or have its contractor remediate the work, at Licensee's sole cost and expense, to ensure the Giddings-Llano Line is available for uninterrupted service.
 - b. Licensor has the right to test and commission or have its contractor test and commission the Crossing prior to use ("**Performance Testing**"). If Licensor determines, in its sole discretion, that the Crossing fails the Performance Testing, then Licensee shall immediately take such actions as are required to correct the Work so as to ensure the proper functioning of the Crossing, and notify Licensor when the Crossing is ready to be re-tested. The foregoing procedure shall be repeated, at Licensee's sole cost and expense, until the Performance Testing is approved by Licensor. Alternatively, Licensor may elect to remediate the Work, or have its contractor remediate the Work, at Licensee's sole cost and expense.
- vii. **Positive Train Control ("PTC").** In the event it is determined that a modification to the PTC system is required, Licensee shall be solely responsible for the related design, construction and testing costs.
- viii. **Standards.** Licensee shall require its Contractors ("**Contractor**" means Pre-Approved Contractors or Alternative Contractors, as applicable) performing the Work to design any modification to the Crossing Area to be consistent with Licensor standards and policies and applicable state and federal laws, rules and regulations including but not limited to the Federal Railroad Administration regulations and requirements, including those for designation as a quiet zone as specified in 49 C.F.R. Part 222, including Appendix A Supplementary Safety Measures, and American Railway Engineering and Maintenance-of-Way Association standards and policies.
- ix. **No Obstruction.** Licensee shall keep all property (including all improvements and personal property) owned by Licensee that is located within 250 feet from the Crossing and parallel and perpendicular to the tracks (but excluding any portion thereof lying within the Giddings-

Llano Line), free and clear of any and all vegetation, undergrowth and debris, so as not to obscure the view of trains and approaching vehicles.

- x. **Barriers.** Licensee shall construct, erect and maintain, to Licensor's satisfaction, fencing, cattle guards and other barriers as may be reasonably necessary (in Licensor's sole opinion) to prevent cattle and other animals from entering onto the Giddings-Llano Line.
- xi. **Corrosion.** Licensor's use of the Crossing Area may include the use of electrically powered equipment. Notwithstanding Licensor's inclusion within its system of measures designed to reduce stray current which may cause corrosion, Licensee is hereby warned that such measures may not prevent electrical current being present in proximity to the Crossing Area and that such presence could produce corrosive effects to the Crossing Area. Licensee waives any claim and releases Licensor with regard to any claim arising from such corrosion.
- xii. **No interference.** All design, construction, reconstruction, replacement, removal, operation and maintenance of the Crossing on the Crossing Area shall be done in such a manner so as not to interfere in any way with the operations of Licensor or with any railroad operations. In particular, cathodic protection or other stray current corrosion control measures of the Crossing Area as required shall be made a part of the design and construction of the Crossing Area.
- xiii. **No Hazards.** Licensee agrees to design, construct, reconstruct and maintain the Crossing Area in such a manner so as not to create a hazard to the use of the Crossing Area, and further agrees to pay any damages which may arise by reason of Licensee's use of the Crossing Area.
- xiv. **Cathodic Protection.** Licensee agrees to institute and maintain a reasonable testing program to determine whether additional cathodic protection of construction on the Crossing Area is necessary and if it is or should become necessary, such shall be responsible for the cost of cathodic protection shall be immediately instituted by Licensee at its sole cost and expense as necessary for the construction of the Crossing Area.
- xv. **Financial Obligations.**
 - a. Licensee shall pay for the entire cost of designing, constructing and maintaining the Crossing, including but not limited to costs associated with engineering services, permits, application fees and RWIC charges, except as provided in subsection (b) below.
 - b. Licensor shall pay for the cost of maintaining the railroad tracks and the area within a two (2)-feet distance of the railroad tracks within the Crossing Area.
 - c. Licensee shall pay the future costs of reconstruction within the limits of the railroad ties within the Crossing Area. This area of the public road crossing may become impossible to maintain. In the event maintenance is no longer possible and reconstruction is necessary, Licensor and Licensee shall agree on the type of reconstruction, and Licensee shall reconstruct the road crossing within the limits of the railroad ties, at the sole cost of the Licensee.
 - d. Licensee shall timely pay submitted invoices under this Agreement within thirty (30) days after the receipt of each invoice from Licensor. The invoices will be accompanied by supporting documentation, detailing the Work performed and the cost of materials and labor to perform the Work.

- xvi. Duty of Care.** Licensee and/or its Contractors shall use reasonable care during the construction period and thereafter, to avoid damaging existing building, equipment, vegetation on or about the Crossing Area and any adjacent property owned by or under the control of Licensor. If Licensee or its Contractors cause damage, Licensee and/or its Contractors shall immediately make appropriate replacement or repair the damage at no cost or expense to Licensor. If Licensee or its Contractors fail or refuse to make such replacement, Licensor shall have the right, but not the obligation, to make or effect any such repair or replacement at the sole cost and expense of Licensee.
 - xvii. Traffic Control.** Licensee shall provide traffic control and all necessary safety measures during construction or maintenance operations to accommodate Work.
 - xviii. Subsurface Installations.** Licensor makes no warranty regarding subsurface installations on the Crossing Area. Licensee shall conduct its own inspection of same and will not rely on the absence or presence of markers.
 - xix. Grade Separation.** If at any time, in Licensor's determination, traffic volume or other circumstances should warrant a grade separation for the Crossing licensed hereunder, Licensee shall be responsible for the cost of installation of such grade separation to Licensor's standards, at no cost to Licensor.
- (e) Damage to Signage and Support Structures.** If any of Licensor's signage or support structures installed at the Crossing are damaged or defaced, then, regardless of the cause of such damage or defacement, the cost to replace or repair the signage or support structures shall be at Licensee's expense. In the event of such damage or defacement, Licensor may replace or repair the signage or support structures, as applicable, and invoice Licensee for the cost thereof. Licensee shall pay such invoice within thirty (30) days from the date the invoice is sent to Licensee.

3. LIMITATION AND SUBORDINATION OF RIGHTS GRANTED

- (a) Licensor's Rights.** This Agreement and the rights granted to Licensee hereunder are and shall be subordinate to (i) the prior and continuing right and obligation of Licensor to use and maintain the Giddings-Llano Line, (ii) Licensor's rail freight operations and passenger rail operations, and (iii) Licensor's rights expressly reserved herein.
- (b) Superior Rights.** This Agreement and the rights granted to Licensee hereunder are and shall be subordinate to all outstanding superior rights including all easements, restrictions, covenants, licenses, encumbrances, leases, conditions, liens and claims of title affecting the Crossing Area and/or the Giddings-Llano Line, including the prior rights of the City of Austin set forth in Quitclaim Deed dated May 20, 1998 recorded in Volume 13187, Page 3118 of the Real Property Records of Travis County, Texas, and the right of Licensor to renew and extend the same.
- (c) Federal Grants and Loans.** This Agreement and the rights granted to Licensee hereunder are and shall be subordinate to the authority of the Federal Transit Administration and the requirements of any federal grants or other financing obtained by Licensor (whether prior to or after the date hereof) in connection with its acquisition, use, repair and maintenance of the Giddings-Llano Line.
- (d) Rail Freight Services Contracts.** This Agreement and the rights granted to Licensee hereunder are and shall be subordinate to all existing and future contracts entered into by Licensor for rail freight services along the Giddings-Llano Line.

4. LICENSOR'S RIGHTS

Notwithstanding anything herein to the contrary, Licensor reserves the right, to be exercised by Licensor or any other parties who may obtain permission or authority from Licensor, to construct, maintain, repair, renew, use, operate, change, modify or relocate (i) railroad tracks and related structures, facilities and appurtenances, (ii) signal, power, communication, fiber optics or other wire lines and appurtenances (whether or not used in connection with Licensor's operations), and (iii) water, gas or other pipelines and appurtenances (whether or not used in connection with Licensor's operations), upon, over, along, across or under any or all parts of the Crossing Area and the Giddings-Llano Line, any of which may be freely done at any time by Licensor without liability to Licensee or to any other Party for compensation or damages. Licensor, and its agents, successors and assigns, consistent with the rights herein granted, reserve the right to use the Crossing Area and the Giddings-Llano Line for any and all other purposes not inconsistent with the rights granted to Licensee in this Agreement.

5. LICENSOR'S RIGHT TO CLOSE OR RELOCATE THE CROSSING

Whenever Licensor deems it necessary or desirable in the furtherance of its railroad operating requirements or for the improvement and use of the Giddings-Llano Line to relocate the Crossing or close the Crossing, Licensor may do so, in which event this Agreement and the Memorandum of License shall terminate.

6. TERM

(a) Term. This Agreement shall commence on the Effective Date and shall continue in full force and effect unless terminated as herein provided.

(b) Licensor Termination Rights. Licensor may terminate this Agreement at any time upon the occurrence of any of the following events:

- i. There is a significant change in the volume or nature of traffic at the Crossing, which shall be determined in Licensor's sole discretion;
- ii. Licensee is using the Crossing Area for a purpose or in a manner not permitted by this Agreement;
- iii. Licensor deems it necessary or desirable in the furtherance of its railroad operating requirements or for the improvement and use of the Giddings-Llano Line to close the Crossing;
- iv. Licensee fails to perform or comply with any other term or provision of this Agreement and does not remedy such failure within five (5) days after receipt of written notice from Licensor of such noncompliance, unless such default could pose a safety risk, in which event Licensor may terminate this Agreement without notice or opportunity to cure.

7. INSURANCE

Licensee shall cause its respective Contractors hired to perform any Work in connection with this Agreement to obtain and maintain insurance of the types and in the amounts as set forth on **Exhibit "C"** attached to this Agreement.

8. RESPONSIBILITY FOR LIABILITY

To the extent allowed by Texas law, the Parties agree that each Party is responsible to the exclusion of any such responsibility of the other Party for its own proportionate share of liability for its negligent acts and omissions for claims, suits, and causes of action, including claims for property damage, personal injury and death, arising out of or connected to this agreement and as determined by a court of competent jurisdiction, provided that the execution of this Agreement will not be deemed a negligent act.

9. ENVIRONMENTAL COMPLIANCE

Licensee shall not keep, store, use or discharge any hazardous materials or toxic substances on or under the Crossing Area or any part of the Giddings-Llano Line, or cause or permit the foregoing to be done by third parties. Licensee shall comply strictly with all applicable Federal, State and local laws, ordinances, rules and regulations regarding hazardous materials or toxic substances with respect to the Crossing Area and the Giddings-Llano Line. Licensors may take all necessary actions to investigate and clean up or respond to any known, suspected, or threatened discharge of any hazardous materials or toxic substances on or under the Crossing Area or any part of the Railway ROW. To the extent such discharge was caused by Licensee, its guests, tenants, employees, contractors, invitees, agents, or predecessors-in-interest, Licensee shall reimburse Licensors for its costs and expenses incurred to remediate such discharge within thirty (30) days after receipt of an invoice from Licensors for such costs and expenses. If Licensors elects to remediate any discharge on or under the Crossing Area or any part of the Railway ROW, Licensee shall cooperate with and grant Licensors such rights and privileges as may be necessary to investigate, clean up or respond to such discharge, and Licensee hereby grants Licensors the right to access any property owned by Licensee as may be necessary (in Licensors's sole opinion) for Licensors to do the same. The provisions of this paragraph shall survive termination of this Agreement.

10. DEFAULT

In the event of default by Licensee under this Agreement, Licensors may pursue any right or remedy provided herein or available at law or in equity, including, without limitation, the right to immediately terminate this Agreement. Additionally, (and without limiting Licensors's other remedies), Licensors, at its option, may elect to remedy or cure Licensee's default at Licensee's cost and expense, in which case Licensee shall reimburse Licensors for its costs and expenses incurred to remedy or cure such breach within thirty days after receipt of an invoice from Licensors for such costs and expenses. If Licensors elects to cure or remedy a Licensee default, Licensee shall cooperate with and grant Licensors such rights and privileges as may be necessary to effectuate such cure or remedy, and Licensee hereby grants Licensors the right to access any property owned by Licensee as may be necessary (in Licensors's sole opinion) for Licensors to cure or remedy a breach of Licensee's obligations under this Agreement (including, without limitation, Licensee's maintenance, safety and environmental obligations hereunder).

11. RIGHT TO EJECT

Licensors may eject or cause to be ejected from the Crossing Area Licensee or any person acting under Licensee's authority or direction (including Licensee's Contractors, guests, tenants and invitees) who is engaging in conduct that is unlawful or unsafe, in Licensors's sole discretion. Licensors shall not be liable to Licensee for any damages that may be sustained by Licensee or the ejected person through Licensors's exercise of such right.

12. BLOCKED ACCESS

Licensor shall not be liable to Licensee for events beyond the reasonable control of Licensor that prevent or restrict access to the Crossing Area. If the use of the Crossing Area is prevented in whole or in material part by an event beyond the reasonable control of Licensor for more than thirty consecutive days, Licensor may terminate this Agreement upon written notice to Licensee. Licensee hereby releases and waives all claims against Licensor for any cost, loss, expense, liability or damages sustained by reason of such termination or restricted access to the Crossing Area.

13. MISCELLANEOUS

- (a) **No Warranty.** Licensor makes no representation or warranty as to the nature or extent of its right, title or interest in or to the Crossing Area, and any implied representation or warranty as to the nature or extent of Licensor's right, title and interest in or to the Crossing Area is hereby expressly disavowed by Licensor. Furthermore, Licensee acknowledges and agrees that it accepts the condition of the Crossing Area "as-is" with any and all latent and patent defects, and licensee acknowledges that Licensor has not made and does not make any warranties of the condition of the crossing area or that the Crossing Area is fit for a particular purpose.
- (b) **Obligation to Report.** Licensee agrees to report any dangerous or defective condition that exists on the Crossing Area to Licensor by telephone at (512) 997-0010.
- (c) **No Waiver.** The failure of Licensor to insist in any one or more cases upon the performance of any of the provisions, covenants, agreements or conditions of this Agreement or to exercise any option herein contained shall not be construed as a waiver or a relinquishment for the future enforcement of any such provision, covenant, agreement, condition or option.
- (d) **Governing Law and Venue.** This Agreement shall be governed by, construed and enforced in accordance with the laws of the State of Texas, and venue shall be in Travis County, Texas.
- (e) **Compliance with Laws.** Licensor reserves the right, in its sole discretion, to unilaterally amend this Agreement at any time to incorporate any modifications necessary for Licensor's compliance, with all applicable state and federal laws, regulations, requirements and guidelines.
- (f) **No Third-Party Beneficiaries.** No term or provision of this Agreement is intended to be, or shall be, for the benefit of any person, firm, organization or corporation not a Party to this Agreement and no such other person, firm organization or corporation shall have any right or cause of action hereunder.
- (g) **Severability.** If any provisions of this Agreement are, for any reason, held by a court to be unenforceable, then the invalidity of such provision will not invalidate any other provisions, which other provisions will remain in full force and effect unless removal of such invalid provision destroys the legitimate purpose of the Agreement, in which event the Agreement will be terminated.
- (h) **Memorandum.** Licensor and Licensee agree to execute a "Memorandum of License" in the form attached hereto as **Exhibit "D"** at the same time they execute this Agreement. The Memorandum of License may be recorded in the Real Property Records where the Crossing Area is located. In no event shall this Agreement, the terms of this Agreement, or the Memorandum of License be recorded without Licensor's consent. Upon expiration or earlier termination of this Agreement, Licensee agrees to execute, acknowledge and deliver an appropriate instrument in

writing evidencing such expiration or earlier termination. Licensors are hereby irrevocably vested with full power and authority as attorney in fact for Licensee and in Licensee's name, place and stead (which shall be deemed coupled with an interest and irrevocable), to execute such instrument.

- (i) **Other Instruments.** The Parties covenant and agree that they will execute other and further instruments and documents as may become necessary or convenient to effectuate and carry out the purposes of this Agreement.
- (j) **Time is of the Essence and Dates of Performance.** Time is of the essence in this Agreement. In the event that the date for performance by either Party of any obligation under this Agreement are required to be performed by such Party falls on a Saturday, Sunday or national holiday, the time for performance of such obligation shall be deemed extended until the next business day following such date.
- (k) **Notice.** All notices, demands, requests, consents, and approvals required under this Agreement or by law by either Party to the other shall be in writing and may be effected by personal delivery in writing or by registered or certified mail, return receipt requested when mailed to the proper Party, at the following addresses:

If to Licensee: Williamson County
County Engineer/Road and Bridge
Attn: J. Terron Evertson, P.E.
3151 S. E. Inner Loop, Suite B
Georgetown, Texas 78626

If to Licensors: Capital Metropolitan Transportation Authority
Attn: Director of Real Estate
507 Calles Street
Austin, Texas 78702

With copy to: Capital Metropolitan Transportation Authority
Attn: Chief Counsel
700 Lavaca Street, Suite 1400
Austin, Texas 78701

- (l) **Signature.** This Agreement may be executed simultaneously in counterparts, each of which shall be deemed an original, but all of which, together shall constitute one and the same instrument. A copy, pdf or facsimile signature shall be deemed an original signature for all purposes hereunder.
- (m) **No Assignment.** Licensee shall not assign this Agreement without the written consent of Licensors. If Licensee fails to secure Licensors' consent to any assignment, Licensee will continue to be responsible for the obligations and liabilities assumed herein. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of the Parties hereto, their respective heirs, executors, administrators, successors and assigns.
- (n) **Interpretation.** Whenever used herein, the term "including" shall be deemed to be followed by the words "with limitation." Words used in the singular number shall include the plural, and vice-versa, and any gender shall be deemed to include each other gender. Descriptive headings/captions herein are for convenience only and do not affect this Agreement's construction or interpretation.

- (o) **Survival.** Termination of this Agreement shall not relieve Licensee's liability or obligation set forth in this Agreement that is expressly stated to survive termination of this Agreement.
- (p) **Application.** Licensor is granting the license to use the Crossing in reliance on the information provided by Licensee. Licensee warrants that the information provided by Licensee is true, correct and complete. Breach of the foregoing warranty by Licensee, shall be a default under this Agreement.
- (q) **Sovereign Immunity.** Nothing in this Agreement shall be construed as a waiver of sovereign immunity by either Party.
- (r) **Entire Agreement.** This Agreement contains the complete and entire Agreement between the Parties respecting the matters addressed herein, and supersedes all prior negotiations, agreements, representations, and understanding, if any, between the Parties respecting the construction of the project. This Agreement may not be modified, discharged, or changed in any respect whatsoever except by a further agreement in writing duly executed by authorized representatives of the Parties.
- (s) **Invalid Provision.** Any clause, sentence, provision, paragraph, or article of this Agreement held by a court of competent jurisdiction to be invalid, illegal, or ineffective shall not impair, invalidate, or nullify the remainder of this Agreement, but the effect thereof shall be confined to the clause, sentence, provision, paragraph, or article so held to be invalid, illegal, or ineffective.

14. FEDERAL NOTICES

- (a) **Non-Discrimination.** Licensee shall not discriminate or permit discrimination against any person or organization because of race, color, age, religion, sex or national origin or for any other reason prohibited by law.
- (b) **Compliance with Environmental Standards.** Licensee shall comply with the provisions of the Clean Air Act, as amended, and the Federal Water Pollution Control Act, as amended.

15. ACKNOWLEDGEMENTS

This Agreement is in memory of the late Thomas N. Olechowski, P.E., HNTB's Director of Rail Engineering. Tom as we called him, was a true pioneer of the rail industry and major contributor to the success of the County Road 200 Project. Not only did Tom have the skills for building things, but he had a special gift for building relationships with the people he came in contact with. His knowledge and warm presence will truly be missed by his industry colleagues.

SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed as the date of the last of the Parties to sign (the "Effective Date").

LICENSOR

Capital Metropolitan Transportation Authority

E-SIGNED by Shannon Gray
on 2021-04-02 20:42:35 GMT
By: _____
Shannon Gray
Program Manager, Right-of-Way

Approved as to form

E-SIGNED by Ilyse Niland
on 2021-04-02 20:07:14 GMT
By: _____
Ilyse Niland, Deputy Counsel

LICENSEE

Williamson County

By: Valerie Covey
Valerie Covey
Williamson County, Presiding Officer

Date: March 24, 2021

EXHIBIT A
DESCRIPTION OF CROSSING AREA (PLANS)

WILLIAMSON COUNTY

CR 200 AT-GRADE CROSSING REPLACEMENT MP 95.30

PRECINCT NUMBER 2

CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY WEST SUBDIVISION, LIBERTY HILL, TEXAS

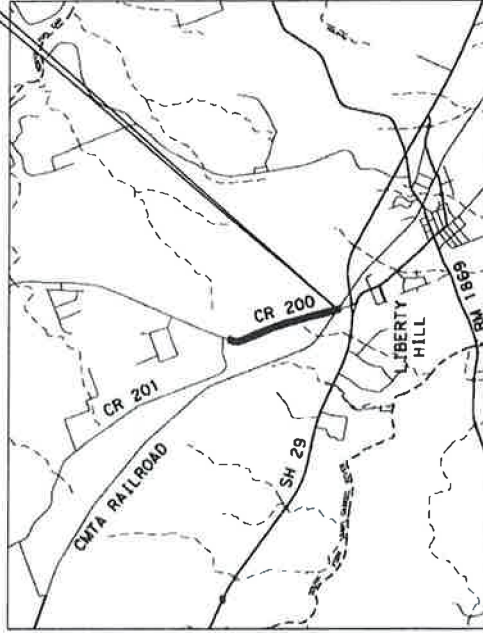
ROADWAY	CLASSIFICATION	DESIGN SPEED
ROADWAY	ADT (CURRENT)	ADT (DESIGN YEAR)
ROADWAY	DHV (CURRENT)	DHV (DESIGN YEAR)
ROADWAY	DIRECTIONAL DISTRIBUTION (D)	PERCENT TRUCKS (T)

FINAL

SUBMITTAL

CR 200
AT-GRADE CROSSING
DOT # 7448005
MP 95.30

FOR THE RECONSTRUCTION OF THE EXISTING AT-GRADE CROSSING
AT MP 95.30

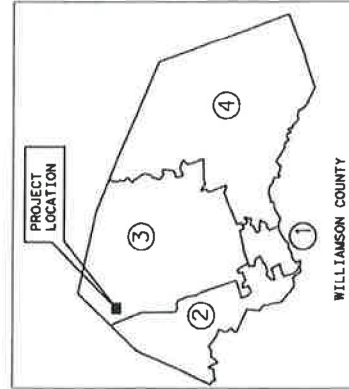


VICINITY MAP
N.T.S.

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: CMTA R.R. AT STA. 105+93.25
WATERSHED: NONE
AREA OF DISTURBANCE: NONE

REGISTERED ACCESSIBILITY SPECIALIST (RAS): INSPECTION NOT REQUIRED

REQUIRED SIGNS SHALL BE PLACED IN ACCORDANCE WITH STANDARD
SHEETS BC(11)-14 THRU BC(12)-14 AND THE "TEXAS MANUAL ON UNIFORM
TRAFFIC CONTROL DEVICES."



WILLIAMSON COUNTY

TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION
OF HIGHWAYS, STREETS AND BRIDGES ADOPTED ON
NOVEMBER 1, 2014 AND ALL APPLICABLE SPECIAL PROVISIONS
AND SPECIAL SPECIFICATIONS AS INDICATED IN THE BID
DOCUMENTS SHALL GOVERN ON THIS PROJECT.

ENGINEER:
THOMAS N. OLECHOWSKI, PE
Project Manager
HNTB Corporation
101 Brazos, Suite 450
Austin, TX 78701
(512) 447-5530

HNTB
TYPE 'E' Firm
Registration No. 420



3/05/2020

THE CAPITAL METRO RAIL STAFF SIGNATURE REFERENCES
ONLY THE WORK TO BE CONSTRUCTED IN THE CAPITAL
METRO RAILROAD RIGHT-OF-WAY (ROW).

REVIEWED BY:
CMTA

E-SIGNED by King Kaul
on 2020-10-05 20:40:30 GMT

KING KAUL, PE
Program Manager IV
DATE

E-SIGNED by David Dech
on 2020-10-06 12:19:01 GMT

DAVID DECH
Vice President Rail
DATE



WILLIAMSON
COUNTY
1848
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EXHIBIT A

1. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

1. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE REPORTED IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
2. THE CONTRACTOR SHALL CONTACT THE TEXAS EXCAVATION SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS. AFTER ABOUT THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES THAT ARE NOT EXTENDED, YIELD TO, CROSSED, OR ALTERED TO DAMAGE/INTERFERE BY THE CONSTRUCTION OPERATIONS.
3. CONTACT THE CITY OF LIBERTY HILL PUBLIC WORKS DEPARTMENT FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
4. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE INTD DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION.
5. SURVEY CONTROL PLAN. IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY OF LIBERTY HILL PRIOR TO ANY CONSTRUCTION. THE ENGINEER'S REVIEW SHALL BE LIMITED TO TECHNICAL ASPECTS ONLY. THE CONTRACTOR SHALL OBTAIN A REGISTERED PROFESSIONAL ENGINEER. LANE CLOSURES ON INTERSECTIONS AND ANY FULL ROAD CLOSURES REQUIRE MESSAGE BOARDS NOTIFYING THE PUBLIC ONE WEEK PRIOR TO THE CLOSURE.
6. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. AND 7:00 A.M. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT NOTICE.
7. CONTACT THE CITY INSPECTOR 4 DAYS PRIOR TO WORK TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.
8. NO BLASTING IS ALLOWED.
9. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED SHALL BE REPLAINED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
10. THE CONTRACTOR SHALL GIVE THE CITY OF LIBERTY HILL 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. THE CONTRACT ASSIGNED CITY INSPECTOR.
11. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND THE CITY OF LIBERTY HILL PRIOR TO INSTALLATION OF EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION OF AREAS AND PRIOR TO BEGINNING ANY WORK.
12. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THESE "RECORD DRAWINGS" SHALL MEET THE SATISFACTION OF THE ENGINEERING DEPARTMENTS PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR TO PROVIDE THE ENGINEER PDF-HALF-SIZE (11"x17") AS-COMPLETED DRAWINGS. THE CONTRACTOR'S AS-COMPLETED DRAWINGS.
13. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO ACCEPTING THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
14. CONTRACTOR TO LOCATE, PROTECT AND MAINTAIN BENCHMARK MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO OWNER.
15. THE CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES. IN THE EVENT THAT A FENCE MUST BE REMOVED, THE CONTRACTOR SHALL REPLACE SAID FENCE OR PORTION THEREOF WITH THE SAME TYPE OF MATERIAL TO A QUALITY OF EQUAL OR BETTER THAN THE ORIGINAL FENCE.
16. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF LIBERTY HILL STANDARD SPECIFICATIONS. CITY OF LIBERTY HILL STANDARDS SHALL BE USED UNLESS OTHERWISE NOTED IN DETAILS.
17. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT SUITE 375 OF AUSTIN, TEXAS 78752-3832.
18. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF LIBERTY HILL DETAILS, AND CITY OF AUSTIN STANDARD SPECIFICATIONS.
19. PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS GOVERN OVER TECHNICAL SPECIFICATIONS.
20. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE MINIMUM THICKNESS OF TWO INCHES WITH NO RECYCLED ASPHALT SHINGLES CONTENT.
21. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY RISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
22. COMPLETE CONSTRUCTION OF THIS PROJECT.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES GAS, WATER, WASTEWATER, ELECTRICAL, TELEPHONE, CABLE TV AND FIBER OPTICS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER WITHIN TWENTY-FOUR (24) HOURS BEFORE ANY POTENTIAL CONFLICT.
24. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT SHALL BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOILS, SEDIMENT, AND DEBRIS. THE CONTRACTOR WILL NOT REMOVE OR SEDIMENT OBJECTS FROM ANY DRAINAGE OR DUST CONTROL FROM THE SITE.
26. THE CITY OF LIBERTY HILL SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
27. AN ENGINEER'S CONCURRENCE LETTER AND RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF CERTIFICATE OF COMPLETION OR SUBDIVISION ACCEPTANCE. THE ENGINEER AND CONTRACTOR SHALL RECORD CONSTRUCTION DRAWINGS INCLUDING EROSION AND SEDIMENTATION CONTROL MEASURES TO CITY SUBMITTALS. RECORD CONSTRUCTION DRAWINGS SHALL BE IN THE FOLLOWING ORDER: 1. GENERAL NOTES, 2. LEGEND, 3. DIGITAL FORMAT AS TEXT, 4. DWG FILES, MICROSTATION, 5. DWG FILES OR EST, 6. SUPPLEMENTAL LINE WEIGHTS, LINE TYPES AND LINE SIZE SHALL BE SUCH THAT IF HALF-SIZE PRINTS (11"x17") WERE PRODUCED, THE PLANS WOULD STILL BE READABLE. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING INFORMATION TO THE CITY OF LIBERTY HILL: 1. SURVEY DATA, 2. LOCATION OF THE PLANE GRID COORDINATE SYSTEM - TEXAS CENTRAL ZONE 14203), IN US SURVEY FEET AND SHALE INCLUDE ELEVATION INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO US SURVEY FEET. 3. SUBMITTALS WILL BE DONE ELECTRONICALLY.
28. TREES IN EXISTING ROW SHOULD BE PROTECTED OR NOTED IN THE PLANS TO BE REMOVED.

1. SEE TRAFFIC CONTROL AND CLOSURE PLANS FOR DETAILS ON PROVING PHASING AND DETAILS ON TRAFFIC CONTROL AND CLOSURE ITEMS. THE CITY WILL BE CONTACTED 48 HOURS PRIOR TO INSTALLATION OF TRAFFIC CONTROL CLOSURES AS APPLICABLE FOR EACH AFFECTED ROADWAY. XDOT SHALL BE CONTACTED AT LEAST FOUR (4) WEEKS PRIOR TO INSTALLATION OF TRAFFIC CONTROLS AND CLOSURES FOR EACH AFFECTED ROADWAY.
2. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ARE LOCATED AT THE ROADWAY PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT TO ENSURE EGRESS AND LOCAL TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTIVE FENCING PRIOR TO ANY WORK (CLEARING, GRUBBING OR EXCAVATION). CONTACT LIBERTY HILL FOR ON SITE INSPECTION PRIOR TO BEGINNING CONSTRUCTION.

2. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
3. IF NEEDED, THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP.
4. ANY ON-SITE SPOILS DISPOSAL SHALL BE PERMITTED PRIOR TO ACCEPTANCE UNLESS SPECIFICALLY SHOWN ON THE PLANS. THE DEPTH OF SPOIL SHALL NOT EXCEED 10 FEET IN ANY AREA. CONTRACTOR WILL MAINTAIN DUST CONTROL.
5. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND COMPOST BLEND. TOPSOIL ON SINGLE FAMILY LOTS MAY BE INSTALLED WITH HOME CONSTRUCTION. THE TOPSOIL AND COMPOST BLEND SHALL CONSIST OF 75% TOPSOIL AND 25% COMPOST.
6. SEEDING FOR REESTABLISHING VEGETATION SHALL COMPLY WITH THE WILLIAMSON COUNTY'S PROTOCOL FOR SUSTAINABLE ROADSIDES (SPEC 164--WCOOT SEEDING FOR EROSION CONTROL). RESEEDING VARIETIES OF BERBERIS SHALL NOT BE USED.
7. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT. LINEAR CONSTRUCTION PROJECTS MAY REQUIRE SPECIAL CONSIDERATION. ROADWAYS SHALL REMAIN CLEAR OF SILT AND MUD.
8. TEMPORARY STOP SIGNS SHOULD BE INSTALLED AT ALL CONSTRUCTION ENTRANCES WHERE A STOP CONDITION DOES NOT ALREADY EXIST.
9. IN THE EVENT OF INCLEMENT WEATHER THAT MAY RESULT IN A FLOODING SITUATION, THE CONTRACTOR SHALL REMOVE INLET PROTECTION MEASURES UNTIL SUCH TIME AS THE WEATHER EVENT HAS PASSED.



STREET AND DRAINAGE NOTES

1. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF LIBERTY HILL HAS NOT REVIEWED AND DOES NOT WARRANT OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS.
2. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF LIBERTY HILL. CONTRACTOR SHALL NOTIFY THE CITY OF LIBERTY HILL ENGINEERING DEPARTMENT AT 512-778-5449 NO LESS THAN 48 HOURS PRIOR TO ANY TESTING.
3. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.
4. BARRICADES BUILT TO THE CITY OF LIBERTY HILL STANDARDS SHALL BE ERCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
5. ALL STRAPPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.
6. MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RAISED TO GRADE PRIOR TO FINAL PAVEMENT CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE LIBERTY HILL ENGINEERING DEPARTMENT AT 512-778-5449 AT LEAST 48 HOURS PRIOR TO THE COMPLETION OF ANY DRAINAGE OR STREET ROW WORK. THE METHOD OF PLACEMENT AND COMPLETION OF BACKFILL IN THE CITY'S ROW MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
8. A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.

GRADING NOTES

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
2. AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

RAILROAD NOTES

ALL INFORMATION ASSOCIATED WITH THE CAPITAL METRO RIGHT-OF-WAY (ROW) REQUESTS CAN BE LOCATED ON THE CMTA WEBSITE VIA THE FOLLOWING INTERNET ADDRESS: [HTTP://WWW.CAPMETRO.ORG/RAILROW](http://www.capmetro.org/railrow)

- A. RR ROW - IS RAILROAD RIGHT OF WAY
 - B. TOR - TOP OF RAILROAD
 - C. MOW - MAINTENANCE OF WAY
1. ANY WORKERS WORKING WITHIN THE RAILROAD RIGHT OF WAY NEED TO GET RAILROAD WORKERS SAFETY TRAINING, AND YELLOW CARD, AND PROOF OF THAT TRAINING. ANY WORKERS IN THE RAILROAD ROW NEED TO CARRY THE YELLOW CARD AT ALL TIMES.
 2. CAPITAL METRO MUST APPROVE ALL ACCESS TO AND ACTIVITIES WITHIN THE CAPITAL METRO ROW PRIOR TO ENTERING INTO THE RAILROAD ROW FOR THE PURPOSE OF ANY WORK. THE CONTRACTOR SHALL OBTAIN A PERMIT TO ENTER THE RAILROAD ROW. THE PERMIT MUST HAVE AN APPROVED LICENSE AGREEMENT AND/OR WORK PERMIT PRIOR TO ANY WORK WITHIN THE RAILROAD ROW. INDIVIDUAL(S)/CONTRACTOR(S) SHALL FOLLOW ALL SAFETY REQUIREMENTS OF CAPITAL METRO. THE RAILROAD ROWS DEPARTMENT MUST BE NOTIFIED IN WRITING OF ANY WORK TO BE DONE WITHIN THE RAILROAD ROW. A RAILROAD WORKER CERTIFICATION, AT ALL TIMES, A VALID CERTIFICATION CARD MUST BE IN THEIR POSSESSION WHILE IN THE RAILROAD ROW.
 3. ANY WORK WITHIN THE FOUL ZONE DEFINED AS 25 FEET FROM THE CENTER OF THE NEAREST TRACKS OF THE RAILROAD ROW CAN ONLY PROCEED WITH THE PRESENCE OF A QUALIFIED EMPLOYEE IN CHARGE (RWIC). ANY WORK INVOLVING EQUIPMENT THAT HAS THE POTENTIAL TO ENTER THE FOUL ZONE MAY ONLY BE PERFORMED WITH THE PROTECTION OF A QUALIFIED RWIC. CROSSING OF RWIC IS COORDINATED BY CAPITAL METRO RAIL OPERATIONS.
 4. CONTRACTOR SHALL NOTIFY CMTA AND ITS MOW AND OPERATIONS CONTRACTOR, HERZOG TRANSIT SERVICES, THREE (3) DAYS BEFORE ANY WORK BEGINS WITHIN THE RAILROAD ROW. THE CONTRACTOR SHALL OBTAIN A RAILROAD WORKER TRAINING CLASSIFICATION, TRACK ACCESS AND EMPLOYEE-IN-CHARGE (RWIC) SERVICES IF NEEDED AND SCHEDULE TRACK OUTAGES. CONTRACTOR IS RESPONSIBLE FOR ALL RWIC COSTS. CONTACT HSTI'S DIRECTOR OF ROADWAY WORKER TRAINING IS PROVIDED BY HERZOG TRANSIT SERVICES (HSTI). CONTACT HSTI'S DIRECTOR OF SAFETY AND TRAINING AT (512) 852-7289 FOR INFORMATION REGARDING TRAINING.
 5. COMPLY WITH ALL CONDITIONS OF PERMIT FOR CONSTRUCTION IN RAILROAD ROW.
 6. CONSTRUCTION IN RAILROAD ROW SHALL NOT PROCEED UNTIL PROOF OF INSURANCE IS PROVIDED TO CMTA.
 7. THE CONTRACTOR MUST REQUEST THAT ALL RAILROAD SIGNAL GRADE CROSSING AND COMMUNICATION CABLES WITHIN THE LIMITS OF CONSTRUCTION BE LOCATED AND TAKE CARE NOT TO DAMAGE THEM. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN MARKING OF CABLES AND FOR THE REPAIR OF ANY DAMAGE TO CAPITAL METRO SIGNAL FACILITIES.
 8. SIGNAL CIRCUITS ARE DESIGNED TO GIVE 20 SECONDS MINIMUM WARNING TIME (WMT) PRIOR TO THE ARRIVAL OF THE FASTEST TRAIN AT THIS CROSSING.
 9. CONSTANT WARNING GCP ALSTOM ELECTROLOGIX XP4 CIRCUITS ARE TO BE USED AT THIS LOCATION.
 10. THE CONTRACTOR WILL FURNISH AND INSTALL OR REPLACE THE APPROPRIATE PAVEMENT MARKINGS AS OUTLINED ON THE ATTACHED LAYOUT AND STANDARD SHEET IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 11. CITY OF LIBERTY HILL AGREES TO MAINTAIN THE PAVEMENT MARKINGS AND ADVANCE WARNING SIGNS PLACED ALONG THE ROADWAY UNDER THEIR JURISDICTION IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS SHOWN ON THE LAYOUT AND STANDARD SHEETS AS ACKNOWLEDGED ON THE TITLE SHEET.
 12. THE CONTRACTOR SHALL STENCIL THE DOT-ARR NUMBERS ON THE SIGNAL MASTS FACING THE ADJACENT ROADWAY IN 2" BLACK LETTERING.
 13. CITY OF LIBERTY HILL TO TRIM AND MAINTAIN TREES AND VEGETATION FOR ADEQUATE VISIBILITY OF THE CROSSING SIGNALS AND ADVANCED WARNING SIGNS AS ACKNOWLEDGED ON THE TITLE SHEET.
 14. THE CONTRACTOR WILL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE GUIDELINES IN THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 15. 6 TRAINS PER DAY AT 35 M.P.H. 5400 V.P.D AT 30 M.P.H.
 16. TRACKS ARE TO BE ADJUSTED TO PROVIDE A SMOOTH RIDE AS DIRECTED BY THE ENGINEER OR THEIR REPRESENTATIVE.
 17. REMOVE AND REPLACE CROSSTIES.
 18. CROSSTIES ARE TO BE REPLACED IN ACCORDANCE WITH CROSSING MATERIAL SPECS.
 19. PROJECT SHALL BE COMPLETED WITHIN X HRS OF INITIATION OF CROSSING WORK.
 20. WORK TO BE DONE BY CONTRACTOR:
 1. PROVIDE PERSONNEL TO OPERATE CONTINUOUS TRAFFIC CONTROL
 2. PROVIDE PERSONNEL TO OPERATE CONTINUOUS TRAFFIC CONTROL
 3. REPAIR ROADWAY AFTER COMPLETION OF THE PROJECT.
 4. FURNISH AND INSTALL BASE MATERIAL UNDER CROSSING IF NECESSARY.



WILLIAMSON
COUNTY
PRECINCT
#2



1205 ERM
HNTB/HNTB Inc. No. 100

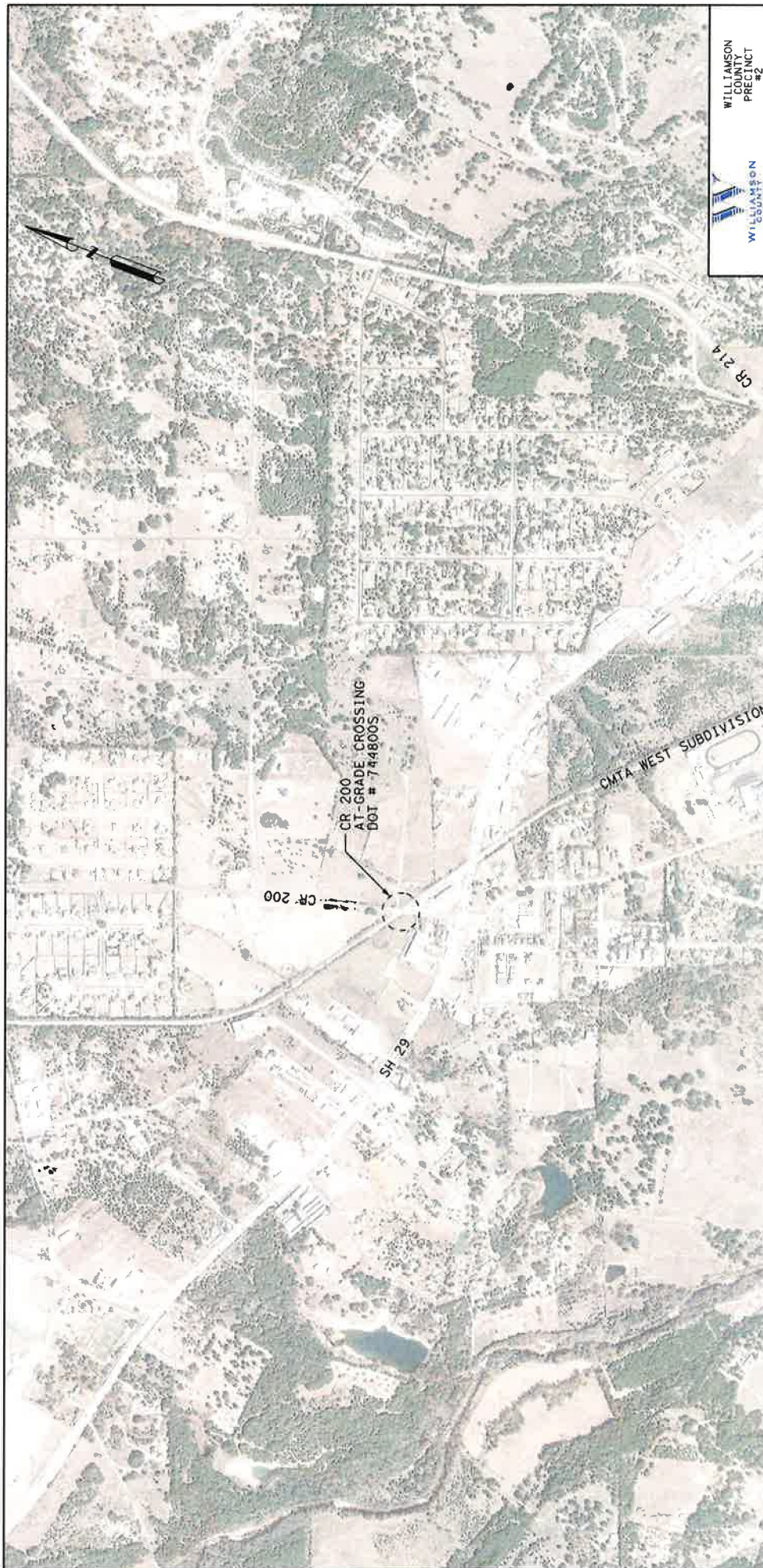
CR 200
AT-GRADE CROSSING
MP 95.30 LIBERTY HILL, TX
GENERAL NOTES
SHEET 2 OF 2

SHEET 4



3/05/2020



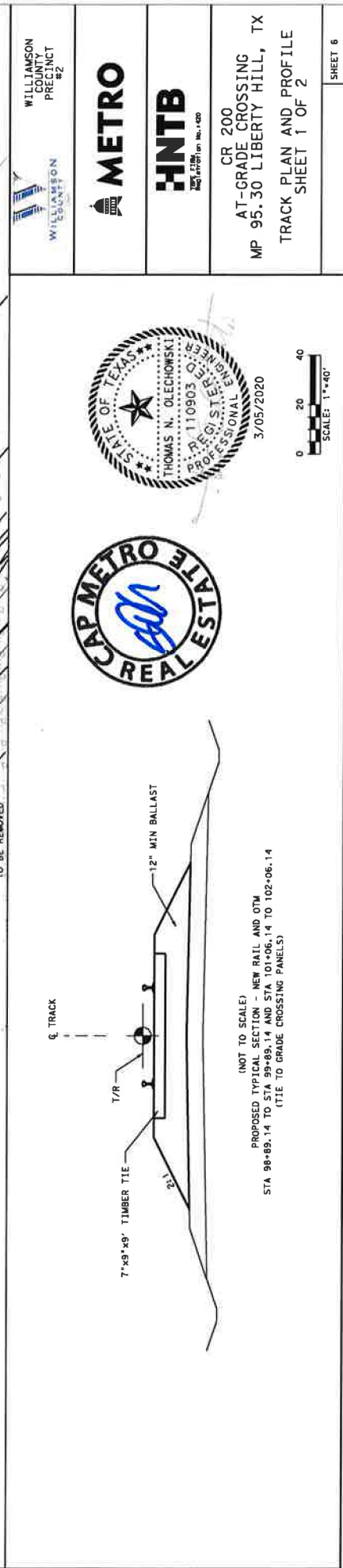


CR 200
AT-GRADE CROSSING
MP 95.30 LIBERTY HILL, TX

LOCATION MAP
SHEET 1 OF 1

SHEET 5



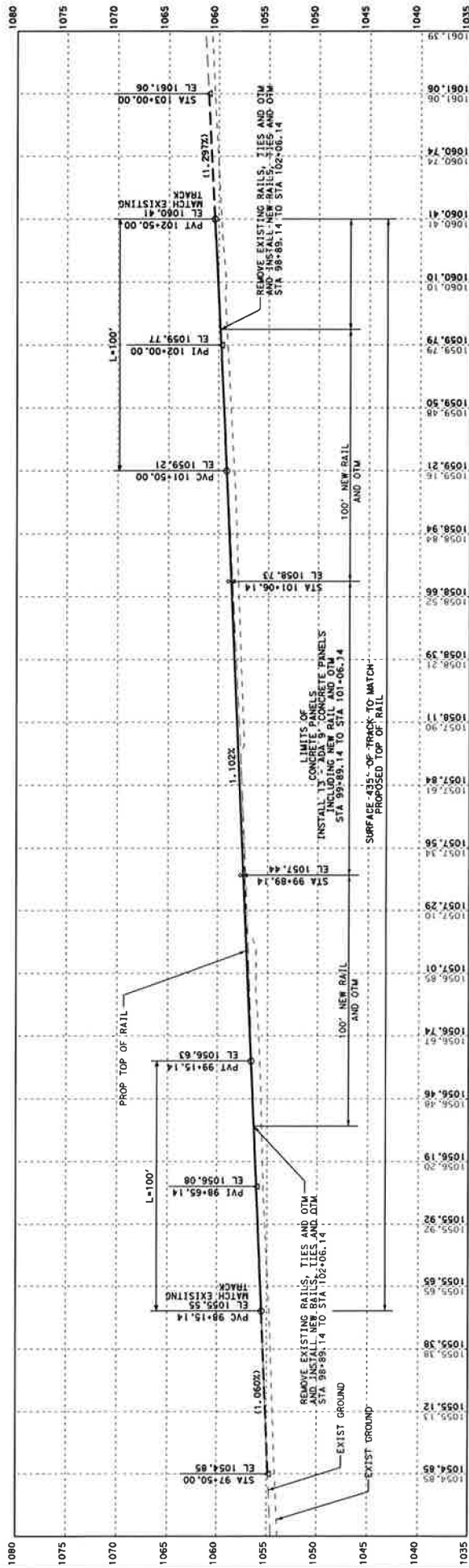


(NOT TO SCALE)

PROPOSED TYPICAL SECTION - NEW RAIL AND OTM

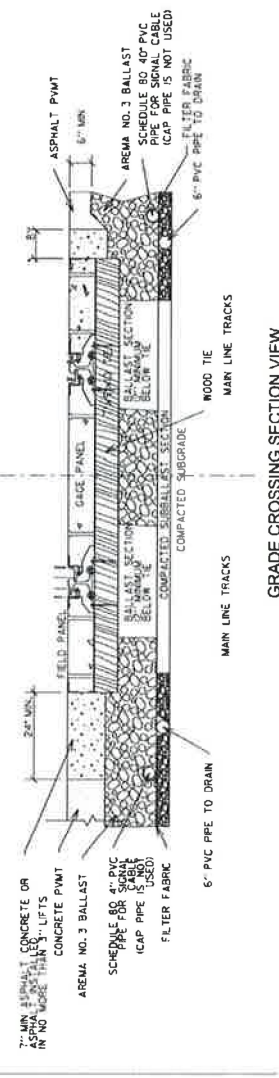
STA 98+89.14 TO STA 99+89.14 AND STA 101+06.14 TO 102+06.14

(TIE TO GRADE CROSSING PANELS)



STANDARD FOR CONCRETE APPROACH

STANDARD FOR ASPHALT APPROACH



GRADE CROSSING SECTION VIEW

(NOT TO SCALE)
PROPOSED TYPICAL SECTION - CONCRETE PANELS, NEW RAIL AND OTM
STA 99+89.14 TO STA 101+06.14

WILLIAMSON COUNTY
PRECINCT #2

METRO

HNTB
1111 N. DALLAS ST.
HOUSTON, TEXAS 77002

CR 200
AT-GRADE CROSSING
MP 95.30 LIBERTY HILL, TX

TRACK PLAN AND PROFILE
SHEET 2 OF 2

SHEET 7

[illegible]



Standard Electrical Test

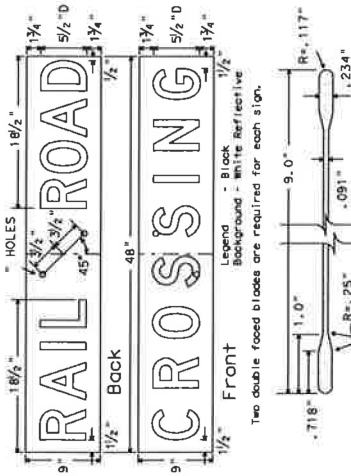
1. BATTERY SHALL BE 5.0 (FIVE) AMPS OR GREATER.
2. SLABS ARE READY TO TEST WHEN 72 HOURS HAVE ELAPSED FROM CASTING OF CONCRETE.
3. MUST BE LESS THAN 2.0 (TWO) AMPS TO PASS THE TEST. RE-TEST AFTER TWO (2) DAYS IF GREATER THAN 2.0 (TWO) AMPS. REJECT IF CURRENT REMAINS ABOVE 2.0 (TWO) AMPS.
4. 0.3-0.4 AMPS IS A NORMAL READING. 2.0 (TWO) AMPS OR LESS PASSES THE TEST.

5. ELECTRICAL TEST SHALL BE PERFORMED BY THE CONSTRUCTION CONTRACTOR IN THE PRESENCE OF CAPITAL METRO OR ITS REPRESENTATIVE AND SHALL BE VERIFIED TO MEET THE REQUIREMENTS ABOVE BY CAPITAL METRO OR ITS REPRESENTATIVE.

[illegible]

DISCLAIMER: The use of this standard is governed by the Texas Engineering Professional Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the consequences of any use of this standard or for incorrect results or damages resulting from its use.

R15-1 Blade Detail



Blade cross section

ASTM B221 aluminum alloy 6061-T6 or 6063-T6

Two double faced blades are required for each sign.

R15-2 Multiple Track Sign Detail

Legend - Black Background - White Reflective

Legend - Black Background - White Reflective

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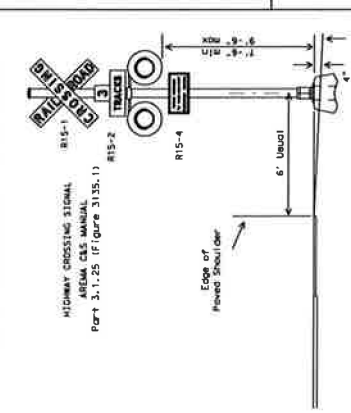
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LATERAL CLEARANCES FOR SIGNS



Highway Crossing Signal

AREA: C.S. MANUAL

Part 3.1.25 (Figure 3135.1)

Part 3.1.25 (Figure 3135.1)

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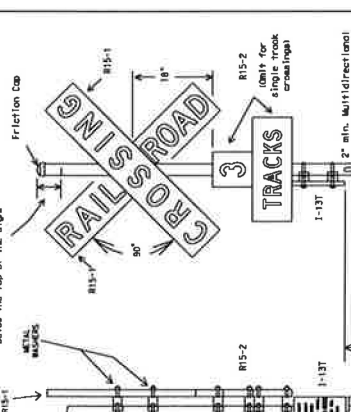
Part 3.1.25 (Figure 3135.1)

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Part 3.1.25 (Figure 3135.1)

Assembled Elevations



RAILROAD CROSSBUCK SIGN INSTALLATION

(NEW POLE AND FOUNDATION) (R15-1)

(NEW POLE AND FOUNDATION) (R15-1)

(NEW POLE AND FOUNDATION) (R15-1)

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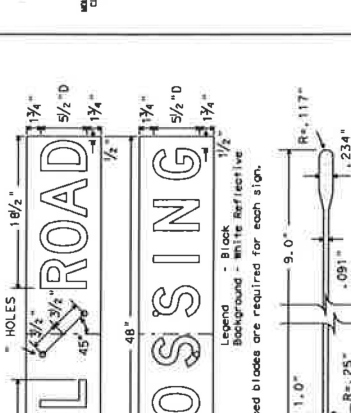
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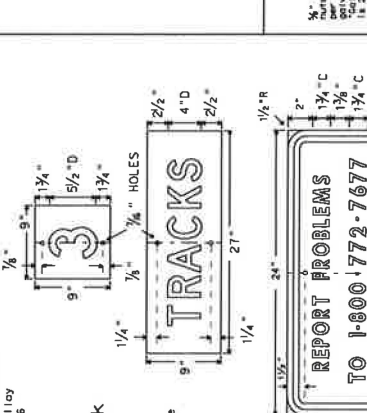
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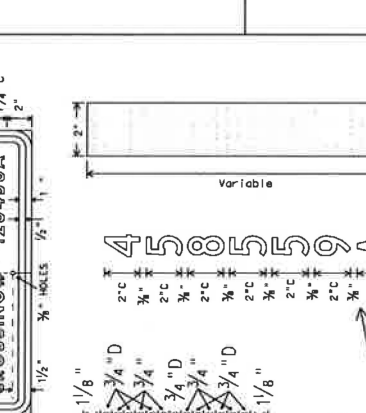
R15-4 Report Sign



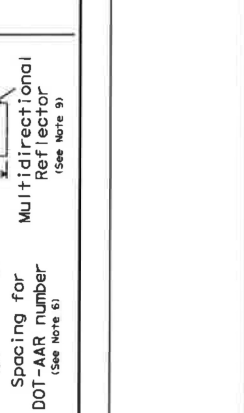
R15-5 Multidirectional Reflector



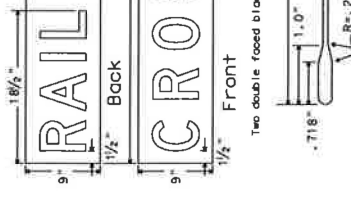
R15-6 Problem Call Sign



R15-7 Reporting Sign



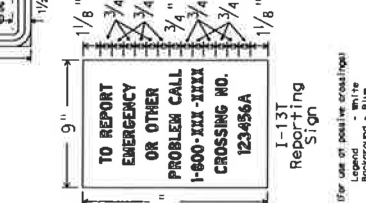
R15-8 Problem Call Sign



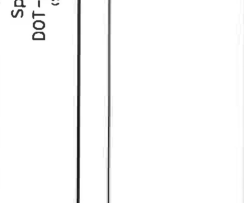
R15-9 Reporting Sign



R15-10 Problem Call Sign



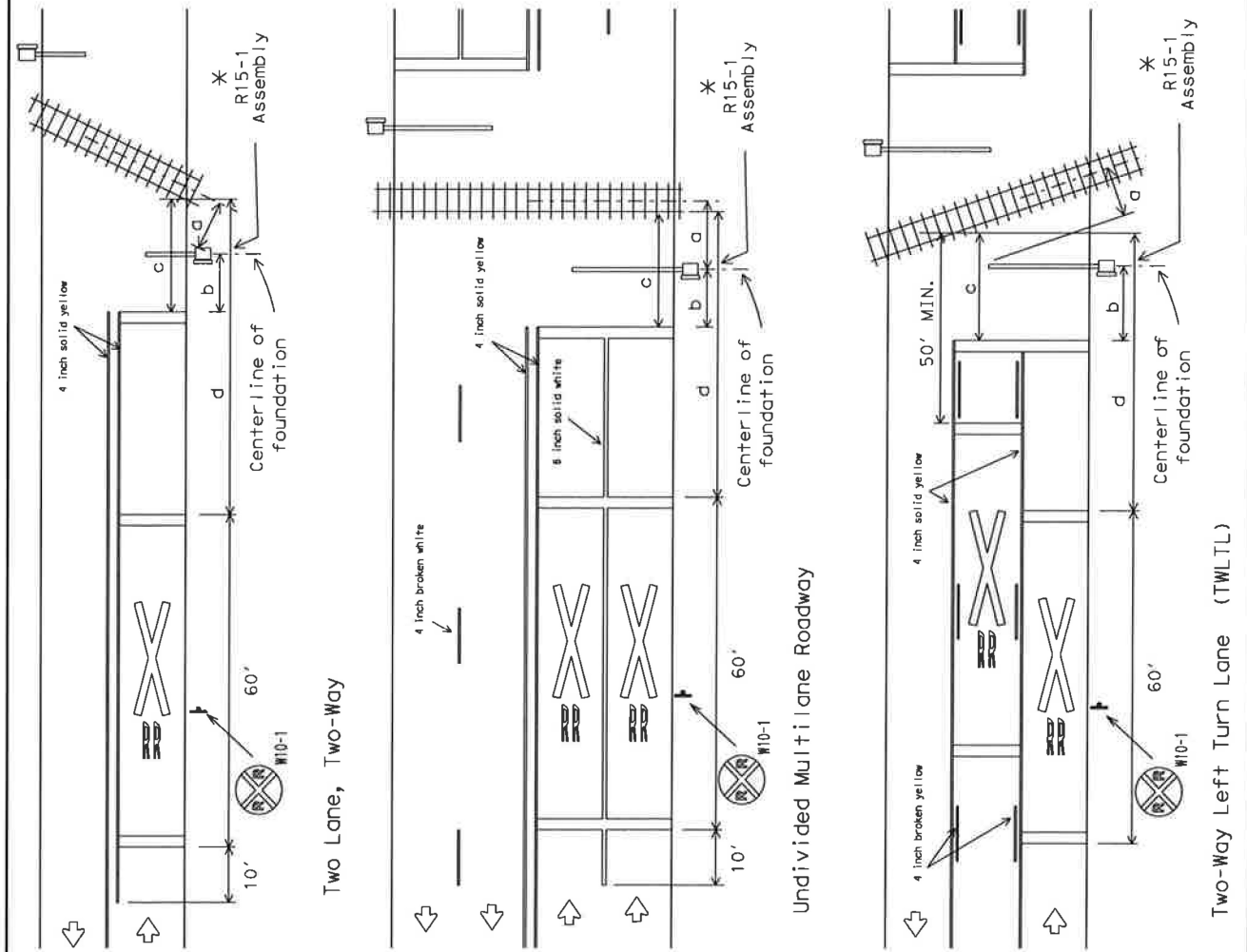
R15-11 Reporting Sign



RAILROAD CROSSING SIGNS AND SIGNALS

RCSS (1) -09

DATE	BY	CHKD	DATE	BY	CHKD
4-92	8-95	4-98	8-98	8-98	8-98



a = 12 feet minimum, 15 feet usual, if active warning devices are present. Distance "a" should be measured from the centerline of the highway to the centerline of the railroad track.

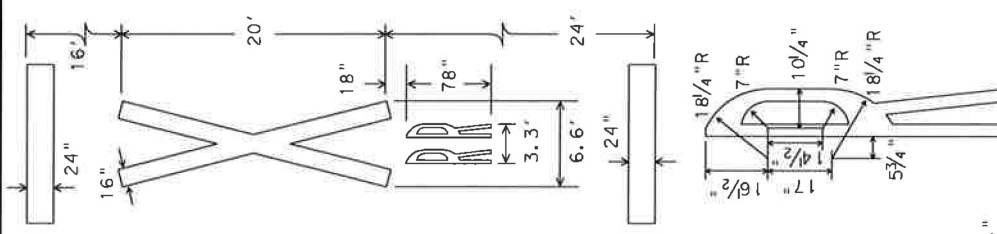
b = Stop lines should be approximately 8 feet in advance of the active warning devices. Stop lines should be approximately 15 feet in advance of the R15-1, plus positive devices (R15-1, plus R15-2 when applicable) are present.

c = 15 feet desirable minimum. R15-1 should be placed between stop line and rails with adequate distance provided for "d".

** d =

Approach Speed (mph)	Desirable Placement (feet)
20	190
25	220
30	250
35	280
40	310
45	340
50	370
55	400
60	430
65	460
70	490

** Local conditions may require alternate placement locations.



ESTIMATED QUANTITIES
(For Contractor Information Only)
24 INCH WHITE TRANSVERSE MARKINGS AND STOP LINES

No. of Approach Lanes (Include TWLTL)	LANE WIDTH (FT)
1	33
2	66
3	99
4	132

4 INCH SOLID YELLOW NO PASSING LINE = "a" - "c" + 70

For: Two Lane, Two-Way, Single Lane Approach per Direction

8 INCH SOLID WHITE LANE LINE = "a" - "c" + 70

For: Two-Way or One-Way Traffic, 2 or More Approach Lanes In Same Direction (Do NOT Include TWLTL)

- GENERAL NOTES**
- The pavement markings on an approach to a railroad grade crossing shall be as follows:
 - Three transverse 24" lines, and
 - One transverse 24" line, and
 - One transverse 24" line, and
 - Identical markings shall be placed on both sides of the approach to a railroad grade crossing. The markings shall be placed on all paved approaches to highway-rail grade crossings, whether the crossing is at a grade, or on a bridge, or on a viaduct, or on a trestle, or on a cut, or on a fill, or on a combination of any of the above. The markings shall not be required at highway-rail grade crossings where the posted or statutory speed is less than 40 mph, and the crossing is not a grade crossing, and the crossing is not a bridge, or on a viaduct, or on a trestle, or on a cut, or on a fill, or on a combination of any of the above. The markings shall not be required at highway-rail grade crossings where the posted or statutory speed is less than 40 mph, and the crossing is not a grade crossing, and the crossing is not a bridge, or on a viaduct, or on a trestle, or on a cut, or on a fill, or on a combination of any of the above.
 - For bidding purposes, the R15-1 sign shall be measured and paid for as for each lane in place. The transverse markings and lane lines will be measured and paid for by the lineal foot.
 - Center lines shall be yellow, other markings shall be white.
 - Approach lanes less than 8 feet wide shall NOT have markings.
 - Markings should NOT be placed where less than 110 feet of approach roadway is available for placement.
 - Rail crossing symbols should be placed approximately in the center of the approach lane.
 - At highway-rail crossings, including stop lines, shall be placed at right angles to the centerline and across all approach lanes.
 - Existing non-standard markings shall be removed to the fullest extent possible so as not to leave a discernable marking, by the time the crossing is placed. OVERPAINTING WILL NOT BE ALLOWED.
 - Additional markings and placement details may be found in the MUTCD, Appendix K.
 - The Engineer may require additional longitudinal markings if the distance between the stop lines is greater than 80 feet. The markings are not required across or between the rails unless specified elsewhere in the plans.

R15-1 Assembly

May consist of one or more of the following:

- R15-1 Crossbuck Sign
- R15-2 Multiple Track Sign
- R15-4 Report Sign
- Most Flashes
- Cones

Texas Department of Transportation
Traffic Operations Division

**RAILROAD CROSSING
PAVEMENT MARKING
TYPICAL DETAILS**

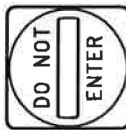
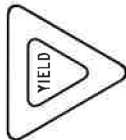
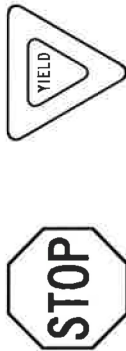
RCPM-09

Rev.	Date	Description
1	10/01	Original
2	08/01	Revised to include R15-4
3	08/01	Revised to include R15-2
4	08/01	Revised to include R15-1
5	08/01	Revised to include R15-4
6	08/01	Revised to include R15-2
7	08/01	Revised to include R15-1
8	08/01	Revised to include R15-4
9	08/01	Revised to include R15-2
10	08/01	Revised to include R15-1

To be placed as shown in typical details when pavement markings are in place.

Where Pavement markings are not installed: Placement of the Highway-Rail Grade Crossing Advance Warning sign shall be in accordance with Chapter 2A and Table 2C-4 Condition (B) of the MUTCD. (see notes 2)

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS



**REQUIREMENTS FOR FOUR
SPECIFIC SIGNS ONLY**

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND	RED	TYPE B OR C SHEETING

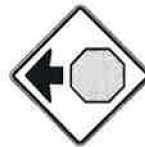
**REQUIREMENTS FOR WHITE BACKGROUND
REGULATORY SIGNS
(EXCLUDING STOP, YIELD, DO NOT ENTER AND
WRONG WAY SIGNS)**



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLUORESCENT YELLOW	TYPE B/F _L OR C/F _L SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS			
USAGE	COLOR	TYPE A SHEETING	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING	
BACKGROUND	FLUORESCENT YELLOW GREEN	TYPE B _{FL} OR C _{FL} SHEETING	
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM	
SYMBOLS	RED	TYPE B OR C SHEETING	

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign fabrication sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (A, B, C, D, E, Extended or FI).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and the spacing between legends shall conform with the SHSD. Spacing of a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-710 or approved alternative.
8. Mounting details for roadside mounted signs are shown in the "SHD series" Standard plan sheets.

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.
<http://www.txdot.gov/>



TYPICAL SIGN REQUIREMENTS

TSR(4) - 13

[illegible]

1-01	DESCRIPTION
------	-------------

This project includes

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

Submit Requests for Information ("RFI") Involving

1.03 PLANS / SPECIFICATIONS

TYNOT has received written Po:

PART 2 - UTILITIES AND FIBER OPTIC
Construct all utility installations in accordance with current

Construct all utility installations in accordance with

PART 3 - CONSTRUCTION

3.01 GENERAL

A Perform all

B. Construction activities within 12 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 12 feet of the operational tracks(s) preferably allow the Railroad's Designated Representative to observe and approve the work. The Railroad Track Manager is responsible to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.

D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.

F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track centerline and secure all equipment. Additional allowances may be pursued as outlined in 3.02 and 3.03.

A. Trains and/or equipment of

B. All railroad tracks within and adjacent to the Contract Site are active, and rail traffic over these facilities shall be

c. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined in the Railroad's Work Window Manual.

2. **Absolute Work Window:** An Absolute Work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated

3.03 RIGHT OF ENTRY, ADVANCE NOTICE AND WORK STOPPAGES

A. Do not perform any work with a Railroad Right-of-Way

B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right-of-Way and observe the Railroad's rules and regulations with respect thereto.

Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 or railroad flagging requirements.

1. Locality and the work entities.
2. The days and hours that work will be performed.
3. The exact location of work, and proximity to the tracks.
4. The type of window requested and the amount of time requested.
5. The designated contact person.

Make provisions to protect permits and property at the Railroad yard or condition arising from, in connection with the work required immediately and without action, if in the judgment of the Railroad Designated Representative, such provisions are deemed necessary. In an event such provisions shall be at the Contractor's expense and without cost to the Railroad. The Contractor shall be responsible for the cost of any operations in the event of an emergency, if in the opinion of the Railroad Designated Representative, the Contractor has not immediately notified the Railroad of the emergency or of such an order immediately notify the Railroad of the order.

Do not begin work

A complete the Railroad course "Or:

"KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Contractor's employees entering the KCS railroad shall hold current certificates at all times. The training can be had by contacting Larry Slater of TrackSense Inc. at 330-847-8661 or by email at lslater@tracksense.com."

3.06 COOPERATION

The Railroad will co-

3.07 MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER TEMPORARY STRUCTURES

TEMPORARY STRUCTURES

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

A. Maintain minimum track clearances d

B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.





3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other obstructions resulting from Contractor's operations. Repair eroded areas and any other damage within Railroad Right-of-Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractor's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad before beginning any grading on the Project Site. Comply with all applicable erosion control regulations when developing and implementing such erosion control.

3.10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, site inspections by the Railroad Inspector are required. Representative of significant points during construction, including the following if applicable:
 1. Pre-construction meetings.
 2. Tie driving/drilling of caissons or drilled shafts.
 3. Reinforcement and concrete placement for railroad bridge.
 4. Erection of precast concrete or steel bridge superstructure.
 5. Placement of waterproofing prior to placing ballast on bridge deck.
 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site inspection may be performed at any time throughout the construction as deemed necessary by the Railroad Inspector.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to 1500' for submittal to the Railroad Designated Professional Engineer for review and approval. The schedule should include the anticipated dates when the above listed events will occur. Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule its inspection

3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within the project reserved horizontal zone, the contractor shall request all of any track on which the equipment is standing or being operated to be closed for the 25 foot limit, or when any track on which the equipment is standing or being operated is in the project reserved zone, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade *if, in the opinion of the Railroad Designated Representative, track or other Railroad facilities may be subject to settlement or movement.*
- C. During any clearing, grubbing, excavation or grading in proximity to Railroad facilities, which, *in the opinion of the Railroad Designated Representative, may endanger Railroad facilities or operations.*
- D. During any Contractor's operations when, *in the opinion of the Railroad Designated Representative, Railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.*
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will reorganize its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the work under this Contract.

3.13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around Railroad facilities with the Railroad Designated Representative.

3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of 1x001, OSHA, AREMA and Railroad Guidelines for Temporary Shoring.
- B. The project plans indicate whether there are fiber optic lines along or near the project. If such telecommunications systems that require coordination with the telecommunication center are present, the telecommunication center shall be notified by a telecommunication call center to determine if such cable systems are present:
- USPS 1-800-336-8193
7:00 AM - 7:00 PM CST Monday-Friday except holidays,
staffed 24 hrs/day for emergencies
48 hrs notice required
- BNSF 1-800-533-2891
24 hour number
5 working days notice required
- KCS 1-800-344-8377
Texas One Call, a 24 hour number
48 hrs notice required, excluding weekends and holidays
- If a telecommunication system is buried anywhere on or near Railroad property, coordinate with 1x001, the Railroad and the Telecommunication Companies to arrange for relocation or protective measures prior to construction. If a telecommunication system is buried anywhere on or near Railroad property, coordinate with 1x001, the Railroad and the Telecommunication Companies to arrange for relocation or protective measures prior to construction. Refer to additional information in the project General Notes for additional information.

C. Projects Involving a boring or Jack and bore operation under existing structures and/or existing railroad tracks shall be on an installation plan reviewed and approved by a Railroad inspector and contractor-assisted monitoring of ground and track. Stop installation and required to maintain safe passage of rail traffic. Movement is detected through the track, the process of vertical and horizontal is detected through the track, the process of damage to the structure of T&E and the Railroad before proceeding.

3.15 RAILROAD FLAGGING

Per the RIGHT OF ENTRY agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor work and at least 30 working days in advance of any Contractor work in which any person or equipment will be within 25 feet of nearest rail.

3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right-of-Way and leave the Right-of-Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

4' minimum steel or wood posts spaced at 6' to 8'.

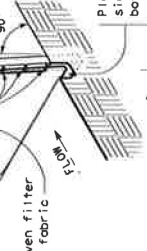
Softwood posts shall be 3" minimum in diameter or nominal 2" x 4".

Hardwood posts shall have a minimum cross section of 1.5" x 1.5" and be 6' times with hog rings.

Connect the ends of the successive reinforcement sheets or rolls a minimum of 6 times with hog rings.

Attach the wire mesh and fabric on end posts using 4 evenly spaced staples for wooden posts (or 4 T-Clips or sewn vertical pockets for steel posts).

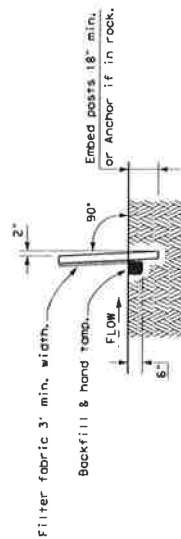
Galvanized welded wire mesh (W.W.M.) (12.5 GA, SWG Min.) with a maximum opening size of 2 x 4" or Woven Mesh (W.M.) (See woven mesh option detail)



Place 4" to 6" of fabric against the trench side and approximately 2" across the bottom in the upstream direction. Minimum trench size shall be 6" square. Backfill and hand tamp.

TEMPORARY SEDIMENT CONTROL FENCE

SCF



SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA, SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

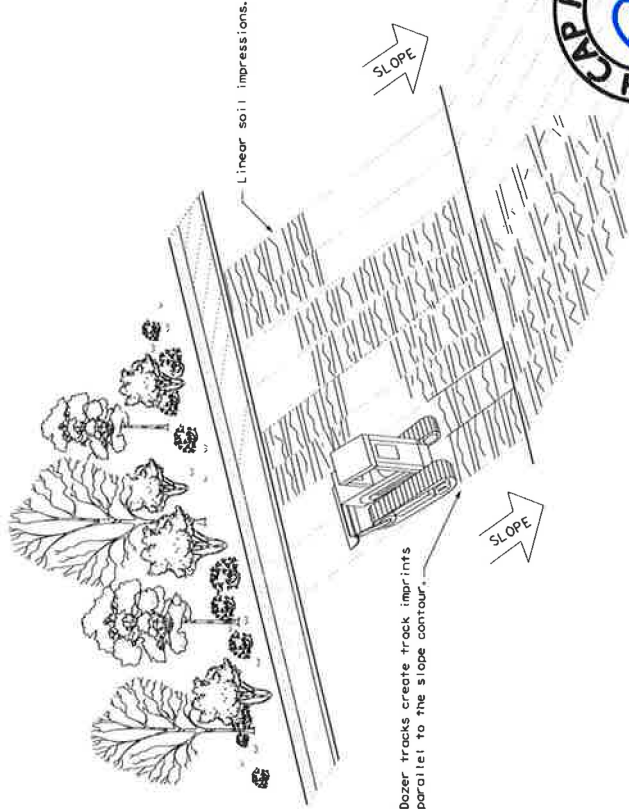
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

- Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- Perform vertical tracking on slopes to temporarily stabilize soil.
- Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- Do not exceed 12" between track impressions.
- Install continuous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



Bulldozer tracks create track impressions parallel to the slope contour.

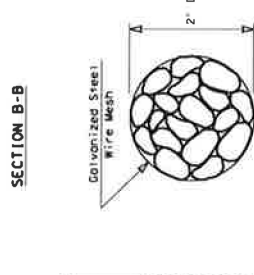
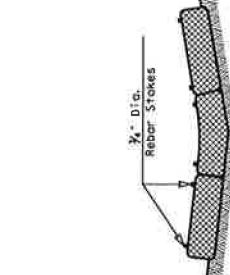
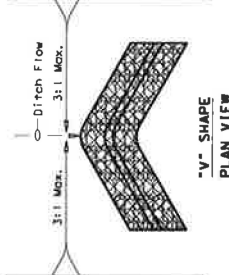
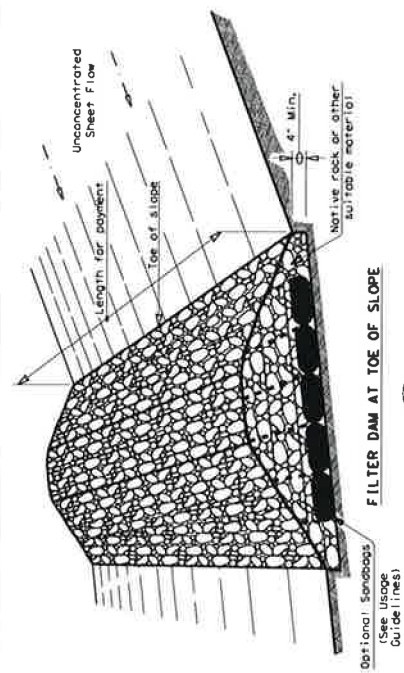
VERTICAL TRACKING



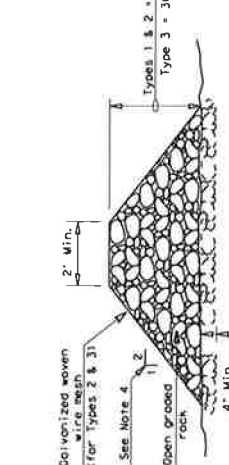
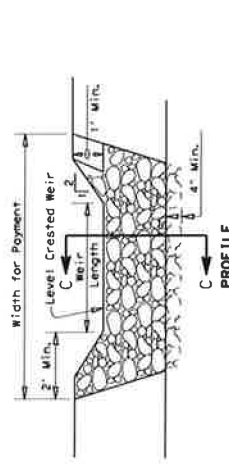
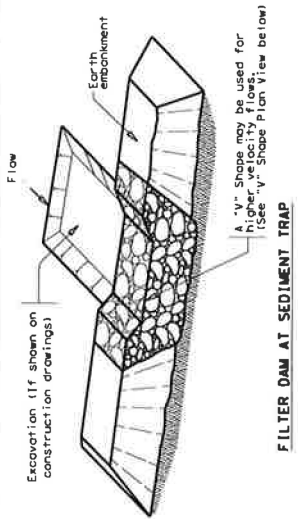
Texas Department of Transportation
Design
Standard

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
FENCE & VERTICAL TRACKING
EC(1) - 16

FILE: 00116	REV: 00116	DATE: 01/16	BY: JPM	CHK: JPM	DATE: 01/16
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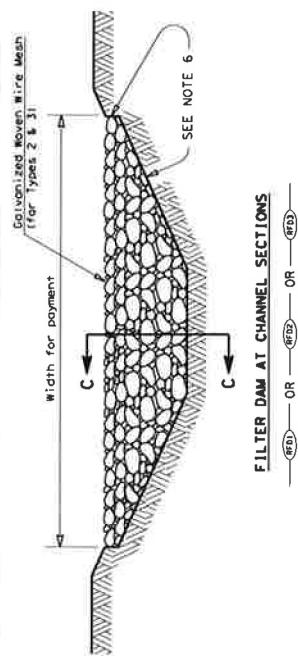


SECTION A-A
TYPE 4 (SACK GABIONS)
RFD-4



SECTION C-C
TYPE 3 18\"/>

ROCK FILTER DAM USAGE GUIDELINES
Rock filter dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dam should be sized to filter a maximum flow through rate of 60 gpm/ft² of filter area. A 2 year storm frequency may be used to calculate the flow rate.
Type 1 18\"/>



- GENERAL NOTES**
- If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream of drainage structures, and in roadway ditches and channels to collect sediment.
 - Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
 - The rock filter dam dimensions shall be as indicated on the SWP plans.
 - Side slopes should be 2:1 or flatter. Dams within the safety zone shall have side slopes of 6:1 or flatter.
 - Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
 - Filter dams should be embedded a minimum of 4" into existing ground.
 - The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
 - Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
 - Sack gabions should be staked down with 3/4" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 1/2" x 3 1/4".
 - Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
 - The guidelines shown herein are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

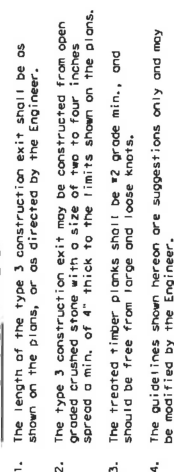
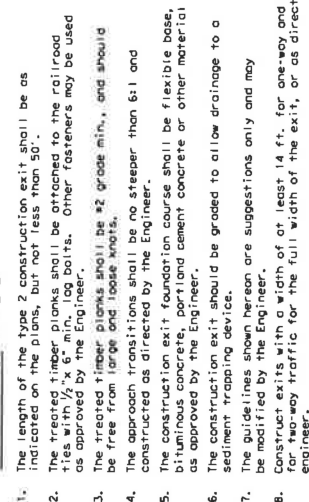
Type 1 Rock Filter Dam	RFD-1
Type 2 Rock Filter Dam	RFD-2
Type 3 Rock Filter Dam	RFD-3
Type 4 Rock Filter Dam	RFD-4



Design Standard
Texas Department of Transportation

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
ROCK FILTER DAMS
EC(2) - 16

FILED	REVISED	DATE	BY	CHKD	DATE	BY
TxDOT, JULY 2018						
REVISION						
SHEET NO.						
COUNT						



TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
CONSTRUCTION EXITS
EC(3) -16

[illegible]

WILLIAMSON COUNTY

CR 200 AT-GRADE CROSSING REPLACEMENT MP 95.30

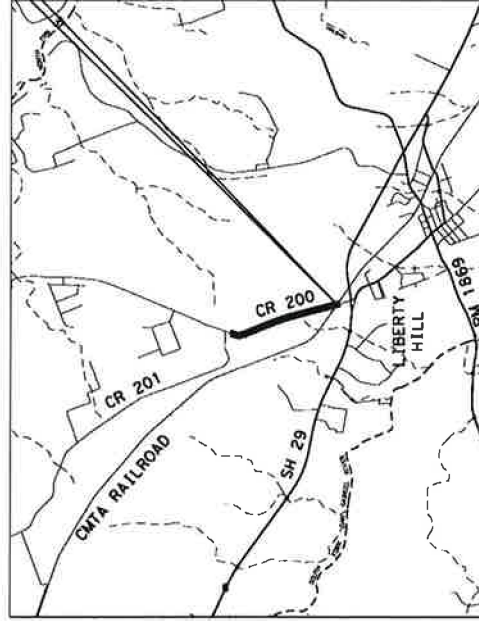
PRECINCT NUMBER 2

CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY WEST SUBDIVISION, LIBERTY HILL, TEXAS

ROADWAY	CLASSIFICATION	DESIGN SPEED
ROADWAY	ADT (CURRENT)	ADT (DESIGN YEAR)
ROADWAY	DHV (CURRENT)	DHV (DESIGN YEAR)
ROADWAY	DIRECTIONAL DISTRIBUTION (D)	PERCENT TRUCKS (T)

FOR THE RECONSTRUCTION OF THE EXISTING AT-GRADE CROSSING
AT MP 95.30

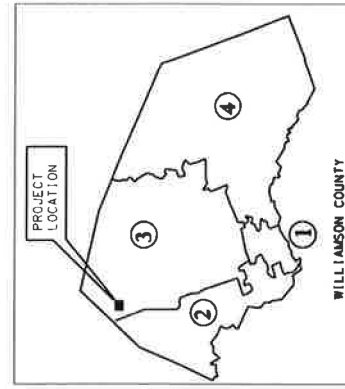
CR 200
AT-GRADE CROSSING
DOT - 7448005
MP 95.30



EXCEPTIONS, NONE
EQUATIONS, NONE
RAILROAD CROSSINGS, CMTA R.R. AT STA 105+93.25
WATERSHED, NONE
AREA OF DISTURBANCE, NONE

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION NOT REQUIRED

REQUIRED SIGNS SHALL BE PLACED IN ACCORDANCE WITH STANDARD SHEETS BC(11)-14 THRU BC(12)-14 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."



TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES ADOPTED ON NOVEMBER 17, 2014 AND ALL APPLICABLE SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS AS INDICATED IN THE BID DOCUMENTS SHALL GOVERN ON THIS PROJECT.



APPROVED BY
WILLIAMSON COUNTY

BILL GRAVELL, JR.
WILLIAMSON COUNTY JUDGE

COMMISSIONER CYNTHIA LONG
WILLIAMSON COUNTY COMMISSIONER, PRECINCT X

REVIEWED BY
CMTA

KING KAUL, PE
CAPITAL METRO RAIL PROGRAM MANAGER IV

DAVID DECH
CAPITAL METRO RAIL OPERATIONS VICE PRESIDENT



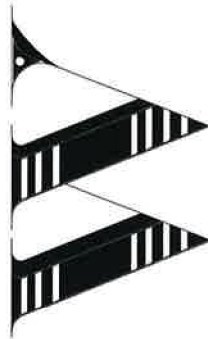
PROJECT INFORMATION:
OWNER'S REPRESENTATIVE:

NAME
TITLE
CITY OF LIBERTY HILL, TX
WILLIAMSON COUNTY

ENGINEER:

THOMAS N. OLECHOWSKI, PE
PROJECT MANAGER
HNTB CORPORATION
701 BRAZOS ST., SUITE 450
AUSTIN, TX 78701
(512) 447-5590





WILLIAMSON COUNTY
1848

CR 200

WEST SUBDIVISION
AUSTIN, TEXAS
MP 95.30

INSTALLATION SHALL BE IN COMPLIANCE WITH
MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
(MUTCD) & THE AMERICAN RAILWAY ENGINEERING
AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA).
ALL WORK TO CONFORM TO CURRENT CAPITAL
METROPOLITAN TRANSPORTATION AUTHORITY
SPECIFICATIONS.

SHT#	SHEET DESCRIPTION	SHT#	SHEET DESCRIPTION	SHT#	SHEET DESCRIPTION
0	COVER SHEET & INDEX	13	LIGHTING CIRCUITS A	25	TRACK WIRE TYPICAL
1	RAILROAD SIGNAL LAYOUT	14	GATE MECHANISM B	27	GENERAL NOTES (1 OF 2)
2	RAILROAD SITE LAYOUT	15	LIGHTING CIRCUITS B	28	GENERAL NOTES (2 OF 2)
3	GATE ASSEMBLY TYPICAL	16	GATE MECHANISM C		
4	XP4 SETUP SHEET	17	LIGHTING CIRCUITS C		
5	XP4 CIRCUITS	18	GATE MECHANISM D		
6	XP4 CIRCUITS	19	LIGHTING CIRCUITS D		
7	XP4 CIRCUITS	20	POWER DISTRIBUTION		
8	XP4 CIRCUITS	21	SIDE D		
9	LIGHTING ARRESTOR PANEL	22	RACK LAYOUT/ SIDE B		
10	LIGHTING ARRESTOR PANEL	23	SIDE A		
11	POWER CIRCUITS	24	SIDE C		
12	GATE MECHANISM A	25	HOUSE DETAIL		



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY
INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15
AND 162. DISCLOSURE OF THIS INFORMATION TO UNAUTHORIZED
PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN 49 CFR
PARTS 15 AND 162, EXCEPT WITH THE WRITTEN PERMISSION
OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY
ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION,
IS PROHIBITED. ANY UNAUTHORIZED DISCLOSURE, REPRODUCTION,
OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES, PUBLIC
DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 43 CFR
PARTS 15 AND 1520



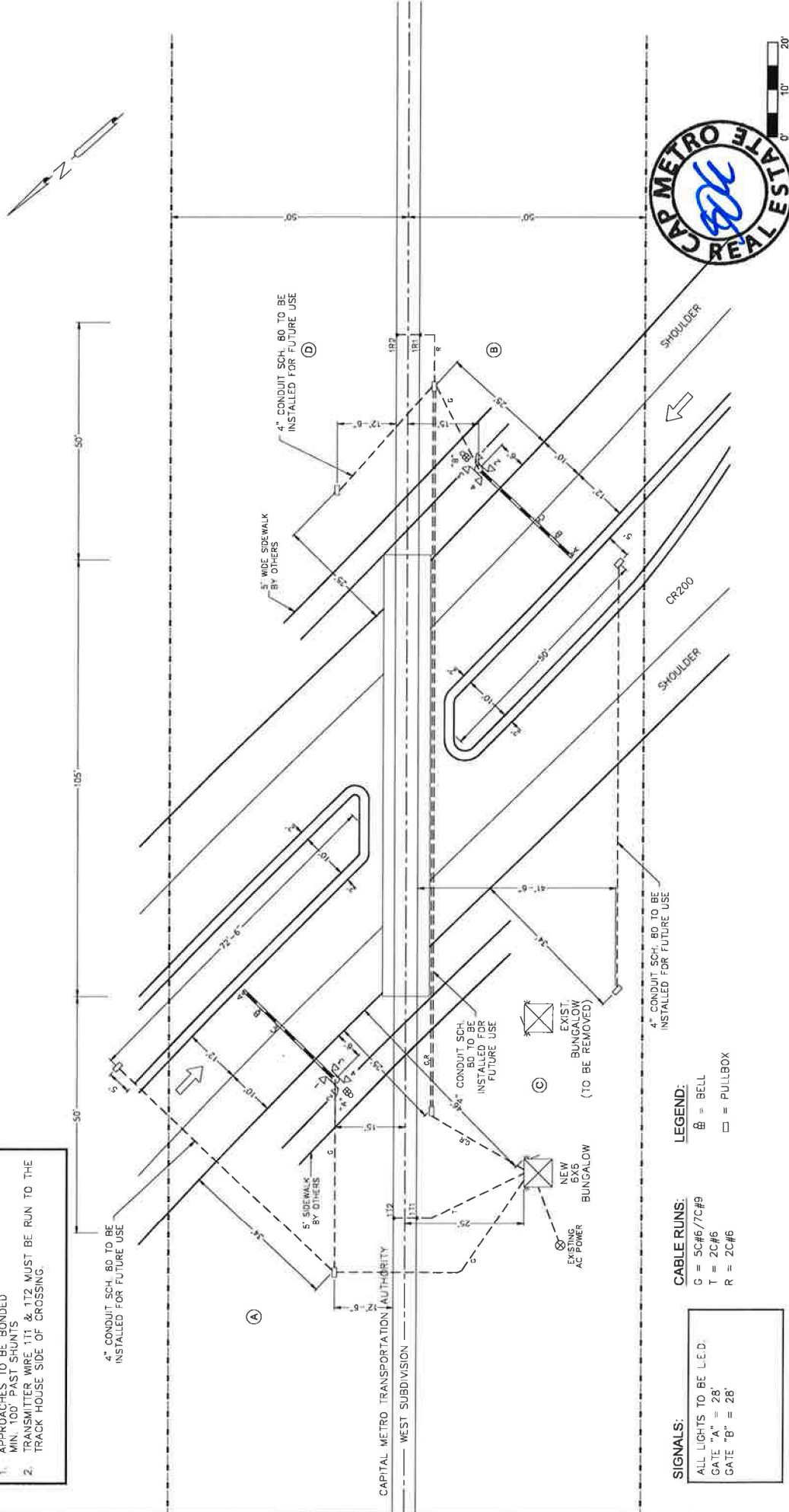
SCALE	CTC
DESIGNED	CTC
CHECKED	CTC
IN CHARGE	HNTB
DATE	10-18-19

CAPITAL METRO
WEST SUBDIVISION
CR 200
MP 95.30 - DOT 744 800S
COVER SHEET & INDEX

CONTRACT	DWG No.	9530-00	REV
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CONSTRUCTION NOTES:

1. APPROACHES TO BE BONDED
MIN. 100' PAST SHUNTS
2. TRANSMITTER WIRE 1T1 & 1T2 MUST BE RUN TO THE
TRACK HOUSE SIDE OF CROSSING.



SIGNALS:

ALL LIGHTS TO BE LED.
GATE "A" = 28'
GATE "B" = 28'

CABLE RUNS:

G = 5C#6/7C#9
T = 2C#6
R = 2C#6

LEGEND:

⊗ = BELL
□ = PULLBOX

WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR, PARTS 15 AND 1520. DISCLOSURE OF THIS INFORMATION TO ANY PERSONS WITHOUT A "NEED TO KNOW" HAS BEEN DENIED UNDER PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. DISCLOSURE OF THIS INFORMATION TO ANY PERSONS WITHOUT THE WRITTEN PERMISSION OF THE SECRETARY OF TRANSPORTATION OR THE SECRETARY OF HOMELAND SECURITY IS PROHIBITED. THIS INFORMATION IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.



SCALE	1" = 20'
DRAWN	CTC
CHECKED	CTC
IN CHARGE	HNTB
DATE	10-18-19

CONTRACT	DWG No.	REV
CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 8005 RAILROAD SIGNAL LAYOUT	9530-01	

85+8000



APPROACH AND WARNING TIME CALCULATION	XP4	TRACK 1
MINIMUM TIME		20 SEC
PLUS CLEARANCE TIME		4 SEC
MINIMUM WARNING TIME (WWT)		24 SEC
PLUS BUFFER TIME		5 SEC
TOTAL WARNING TIME ("WT")		29 SEC
PLUS EQUIPMENT RESPONSE TIME		5 SEC
PLUS ADVANCE PRE-EMPTION TIME		N/A SEC
TOTAL APPROACH TIME (TAT)		34 SEC
MAXIMUM TRAIN SPEED		35 MPH
TIMES RATIO OF FT/SEC TO MPH		1.4657
TOTAL (MINIMUM) APPROACH DISTANCE		1746 FT

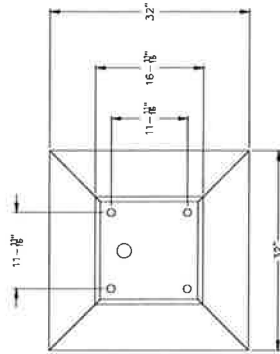


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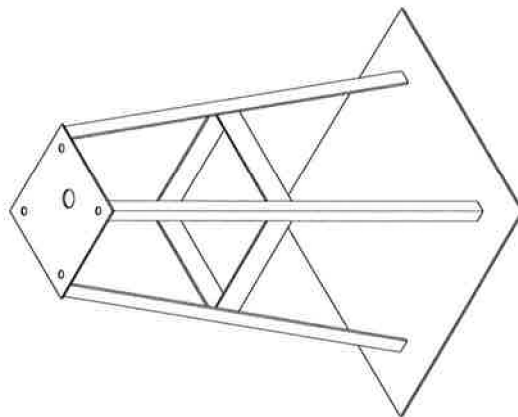
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CONTRACT	DWG No.	REV
	9530-02	

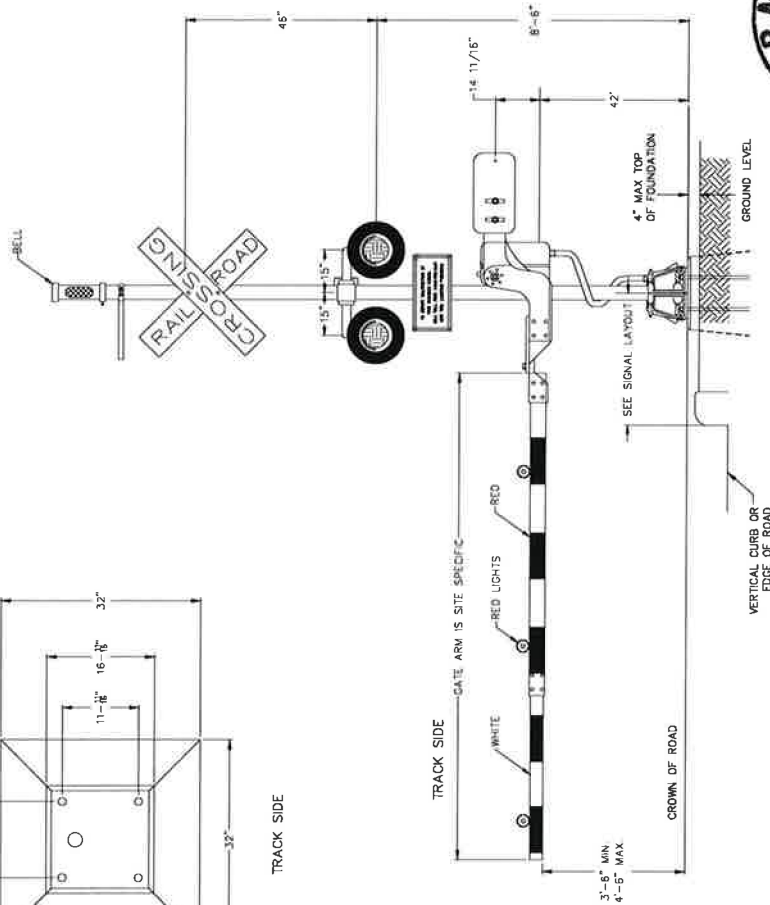
FIELD SIDE



TRACK SIDE



TYPICAL GALV. STEEL FOUNDATION



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 48 CFR, PARTS 15 AND 1520. THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT NEED TO OBTAIN A WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION SECURITY. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR CRIMINAL PROSECUTION. THIS INFORMATION IS CONTROLLED UNDER 48 CFR, PARTS 15 AND 1520.



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PHONE (817) 886-8210
1100 W. WORTH AVENUE
F.T. WORTH, TEXAS 76104
WWW.CTCINC.COM



OWNER	CTC
DESIGNER	CTC
CHECKER	CTC
IN CHARGE	HNTB
DATE	10-18-19

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 B005 GATE ASSEMBLY TYPICAL	CONTRACT	DWG No. 9530-03	REV
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ADJUSTMENT NAME	MDR1
NAME	XR
WARNING TIME	29 SEC
CW/MD	CW
AP TIME	00 SEC
CW-WT	00 SEC
AUX RECOVERY DELAY	05 SEC
TK1	TK1
ASSIGN	ASSIGN
OFFSET DISTANCE	0 FT
MD RESTART	*
SUDDEN SHUNT ZONE	DISABLE
POSITIVE	PSN
START	NA
PST	NA
PJEN	DISABLE
POST JOINT	PJRX
DETECT	NA

BASIC TRACK SETUP	TK1	TK1	TK1	TK1
FREQUENCY	645 HZ	MASTER	MASTER	MASTER
MASTER/SKAVE	100	MASTER	MASTER	MASTER
RX ADJUST	*	MASTER	MASTER	MASTER
TCA	BI	MASTER	MASTER	MASTER
DIRECTION MODE	BI	MASTER	MASTER	MASTER
LIA	*	MASTER	MASTER	MASTER
ADVANCED APR CAL	INACTIVE	MASTER	MASTER	MASTER
NBS COMP RX	*	MASTER	MASTER	MASTER
TRK ISLAND ASSIGN	ISL1	MASTER	MASTER	MASTER
APPROACH LENGTH	1746	MASTER	MASTER	MASTER
AUTO RX	ENABLE	MASTER	MASTER	MASTER

ADVANCED TRACK SETUP	TK1	TK1	TK1	TK1
MOTION DET TIMER	MDEN	DISABLE	DISABLE	DISABLE
FALSE SHUNT	MDIT	NA	NA	NA
APPROACH RELEASE	FSN	DISABLE	DISABLE	DISABLE
LOS TIME	FSRX	NA	NA	NA
NRWL_SHHTR_VRSHT	FST	NA	NA	NA
LOS TIME	AREN	DISABLE	DISABLE	DISABLE
NRWL_SHHTR_VRSHT	ARRX	NA	NA	NA
LOS TIME	ART	NA	NA	NA
NRWL_SHHTR_VRSHT	10 SEC	5 SEC	5 SEC	5 SEC
NRWL_SHHTR_VRSHT	NRWL	*	*	*

ISLAND SETUP	TK1	TK1	TK1	TK1
ENABLE/DISABLE	TK1	TK1	TK1	TK1
FREQUENCY	5.9 KHZ	5.9 KHZ	5.9 KHZ	5.9 KHZ
LOSS OF SHUNT	4 SEC	4 SEC	4 SEC	4 SEC
FAULT DELAY	2	2	2	2

APPLICATION SOFTWARE INFORMATION	CR200
NAME	1
CHECKSUM	CR200
CHASSIS ID	CR200
LOCATED BEHIND UCI-3	CHASSIS ID

0 = TAB INTACT
● = TAB PUNCHED OUT

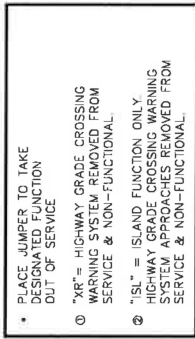
EXECUTIVE INFORMATION	VERSION	PART NUMBER
VPM - 3	083024-716	
CROSSING SOFTWARE	*	

CROSSING TEST MODE	TK1	TK1	TK1	TK1
FLASH RATE	ON	ON	ON	ON
VOLTAGE REGULATION	* 12.0	* 12.0	* 12.0	* 12.0
L1 VOLTAGE	* 12.0	* 12.0	* 12.0	* 12.0
L2 VOLTAGE	* 12.0	* 12.0	* 12.0	* 12.0
GATE 1 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 2 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 3 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 4 DELAY	3 SEC	3 SEC	3 SEC	3 SEC

CROSSING TEST MODE	TK1	TK1	TK1	TK1
FLASH RATE	ON	ON	ON	ON
VOLTAGE REGULATION	* 12.0	* 12.0	* 12.0	* 12.0
L1 VOLTAGE	* 12.0	* 12.0	* 12.0	* 12.0
L2 VOLTAGE	* 12.0	* 12.0	* 12.0	* 12.0
GATE 1 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 2 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 3 DELAY	3 SEC	3 SEC	3 SEC	3 SEC
GATE 4 DELAY	3 SEC	3 SEC	3 SEC	3 SEC

SHUNT RECORDS

APPROACH 1 (EAST)	NO SHUNT		100% SHUNT		50% SHUNT		LIA ADDED ± 1 to ±9
	RX	PHASE	RX	PHASE	RX	PHASE	
Track 1	Normal						
	Standby						
Track 2	Normal						
	Standby						
APPROACH 2 (WEST)							
Track 1	Normal						
	Standby						
Track 2	Normal						
	Standby						
			</				



HNTB
A THORN BROWN
ACQUISITION + CO.

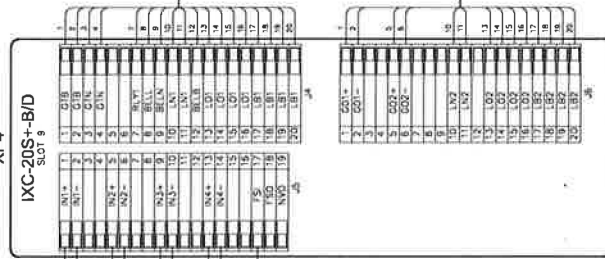
SCALE	
DATE	CTC
CHECKED	CTC
CHECKED	CTC
IN CHARGE	HNTG
TIME	10-10-10

CONTRACT	HWG No.	0570	05	REV
CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 800S XP4 CIRCUITS				

CABLE #1 0215-05 P/A 075544-001

CABLE #2 0215-05 P/A 075547-001

XP4

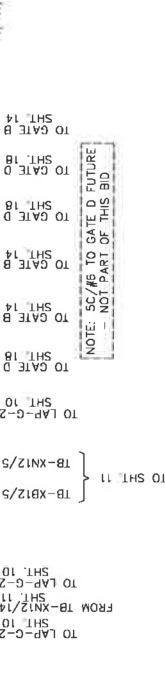
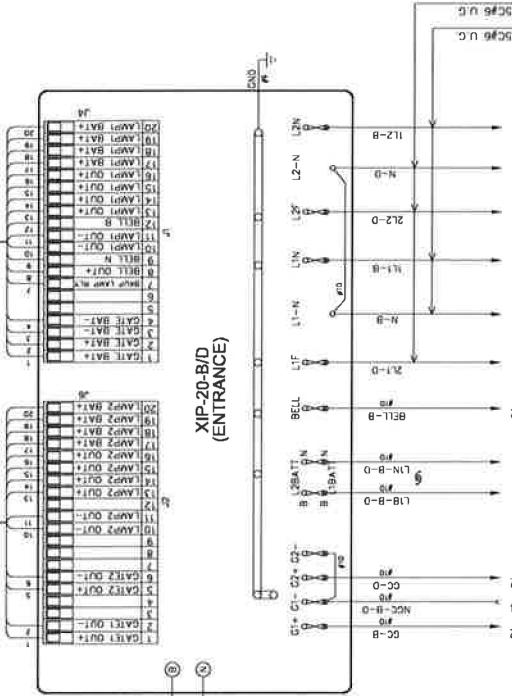


FROM LAP-G-2
SHIT 10
FROM TB-XN12/10
SHIT 11
FROM LAP-G-2
SHIT 10
FROM TB-XN12/13
SHIT 11
FROM LAP-G-2
SHIT 10
FROM TB-XN12/10
SHIT 11
FROM LAP-G-2
SHIT 10
FROM TB-XN12/13
SHIT 11
FROM LAP-G-2
SHIT 10
FROM TB-XN12/13
SHIT 11
FROM IXC-20S4-A/C
SHIT 07

FROM SHIT 11

TB-XB12/3
#10
XB/XIP-B/D
#10
XN/XIP-B/D
#10

XIP-20-B/D
(ENTRANCE)



NOTE: SC/45 TO GATE D FUTURE
NOT PART OF THIS BID



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FT. WORTH, TEXAS
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HNTB
Registration No. 420

CAPITAL METRO
WEST SUBDIVISION
CR 200
MP 95.30 - DOT 744 8005
XP4 CIRCUITS

CONTRACT DWG No. 9530-08
REV



FUTURE
NOT PART OF THIS BID

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SCALE	DATE	BY	CHKD	DATE																																
5/24/00	5/24/00	CTC	CTC	10-18-19																																
DESIGNED	DESIGNED	CTC	CTC																																	
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CONTRACT	DWG No.	REV																																		
	05-00	00																																		
CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 800S LIGHTING ARRESTOR PANEL																																				

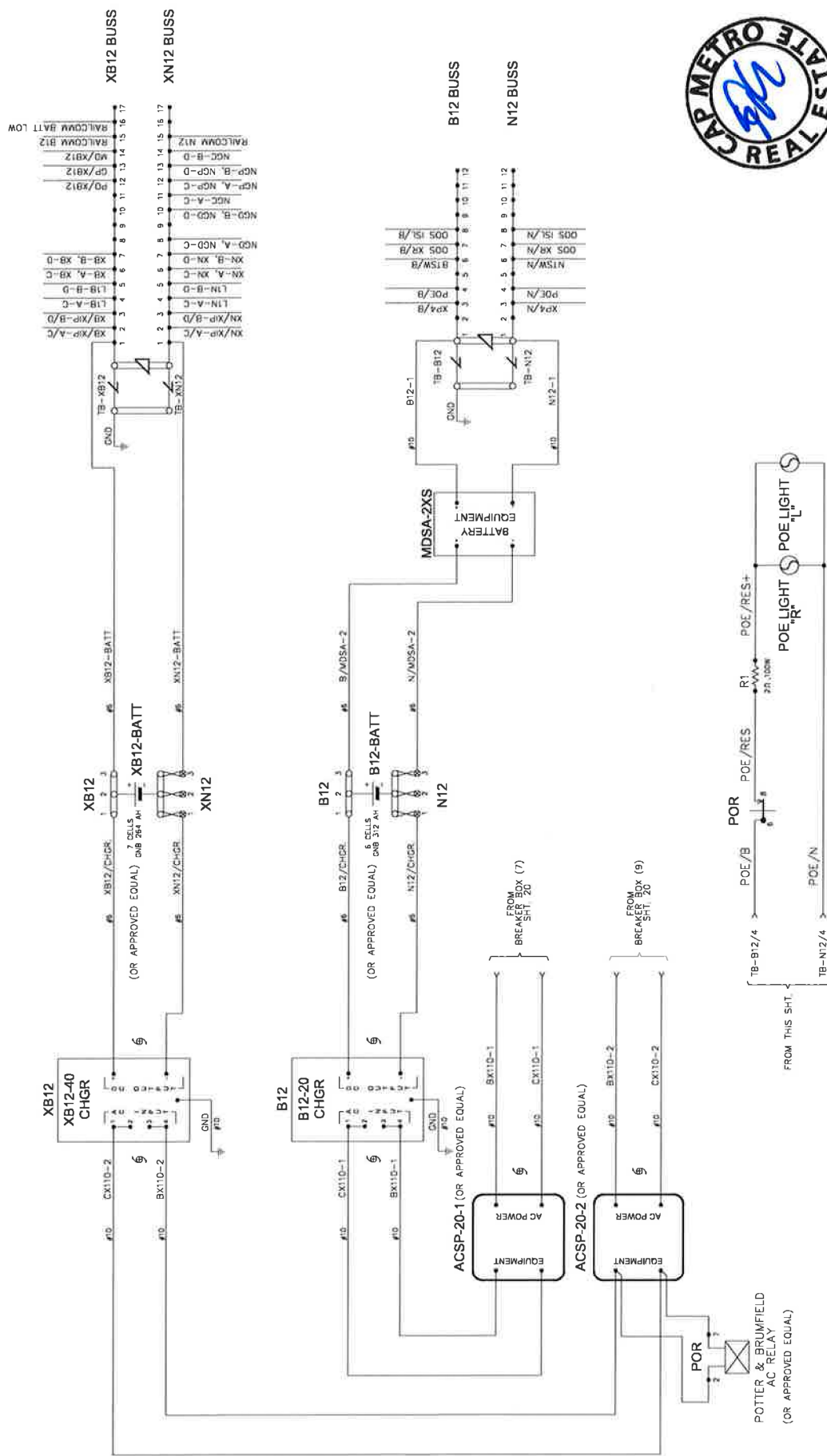


NOT PART OF THIS BID

WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION. THIS INFORMATION IS CONTROLLED UNDER 49 CFR PARTS 1500 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED IN 49 CFR PARTS 1500 AND 1520 TO ANY PERSON WITHOUT A "NEED TO KNOW," AS DEFINED IN 49 CFR PARTS 1500 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE SECRETARY OF TRANSPORTATION OR THE DEPARTMENT OF COMMERCE FOR U.S. GOVERNMENT AGENCIES, PUBLIC OR OTHER ACTION FOR THE U.S. GOVERNMENT. AGENCY'S PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 1500 AND 1520.



LOCAL	CTC	CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - D01 744 8005 LIGHTING ARRESTOR PANEL	CONTRACT	DWG No	9530-10	REV
MAIN	CTC					
STANDARD	CTC					
BOOKED	CTC					
IN PROGRESS	INTB					
DATE	10-18-19					



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SCALE																							
UNITS	CTC																						
SECOND	CTC																						
CHANGES	CTC																						
DATE	HNTB																						
	10-18-19																						
CONTRACT	DWG No.	REV																					
	9530-11																						
CAPITAL METRO WEST SUBDIVISION		CR 200 MP 95.30 - DOT 744 8005	POWER CIRCUITS																				

RIOTECHE-21748

STATE OF TEXAS

ROBERT E. BURNHAM

86892

MECHANICAL ENGINEERING

EXPIRES 05/31/90

ISSUED 05/27/89

CTC INC
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FAX: (817) 866-8225
FT. WORTH, TEXAS
WWW.CTCINC.COM

SCALE	
DRAWN	CTC
DESIGNED	CTC
CHECKED	CTC
IN CHARGE	HNTB
DATE	10-15-19

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 8005 POWER CIRCUITS	CONTRACT	DWG No.	REV
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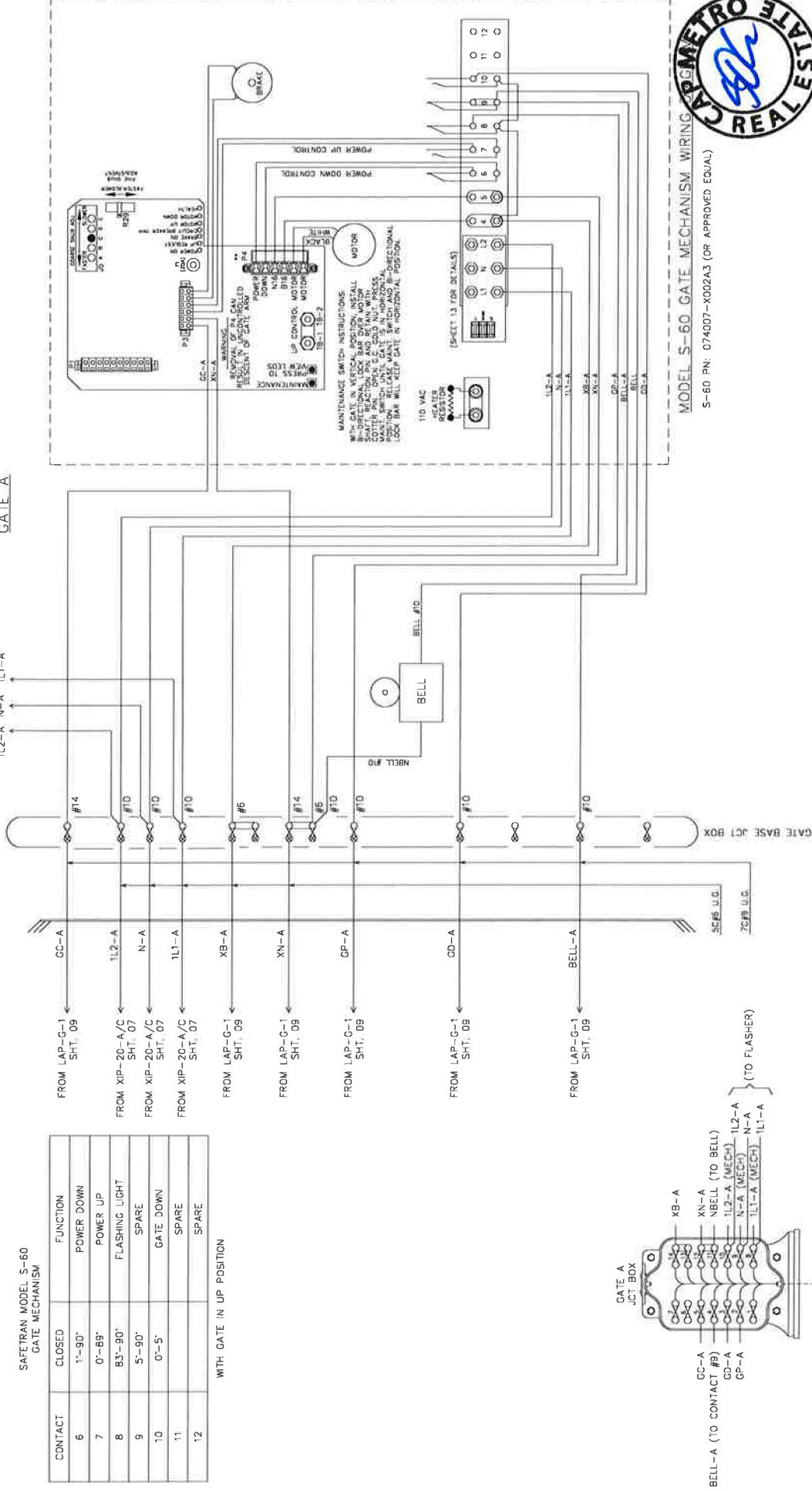
GATE A

TO MAST MOUNTED FLASHERS
(SHEET 13 FOR DETAILS)
1L2-A N-A 1L1-A

SAFETRAN MODEL S-60
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
6	1"-90°	POWER DOWN
7	0°-69°	POWER UP
8	B3°-90°	FLASHING LIGHT
9	5°-90°	SPARE
10	0°-5°	GATE DOWN
11		SPARE
12		SPARE

WITH GATE IN UP POSITION



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR. PARTS 15 AND 1502. NO PART OF THIS INFORMATION MAY BE DISCLOSED TO ANY PERSONS WITHOUT A WRITTEN RECORD OF DISCLOSURE TO THE PERSONS TO WHOM IT IS DISCLOSED. DISCLOSURE OF THIS INFORMATION TO ANY PERSONS WITHOUT A WRITTEN RECORD OF DISCLOSURE TO THE PERSONS TO WHOM IT IS DISCLOSED IS A VIOLATION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. DISCLOSURE OF THIS INFORMATION TO ANY PERSONS WITHOUT A WRITTEN RECORD OF DISCLOSURE TO THE PERSONS TO WHOM IT IS DISCLOSED IS A VIOLATION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. DISCLOSURE OF THIS INFORMATION TO ANY PERSONS WITHOUT A WRITTEN RECORD OF DISCLOSURE TO THE PERSONS TO WHOM IT IS DISCLOSED IS A VIOLATION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION.



CTC inc
PHONE: (817) 886-8710
FAX: (817) 886-8722
WWW.CTCINC.COM



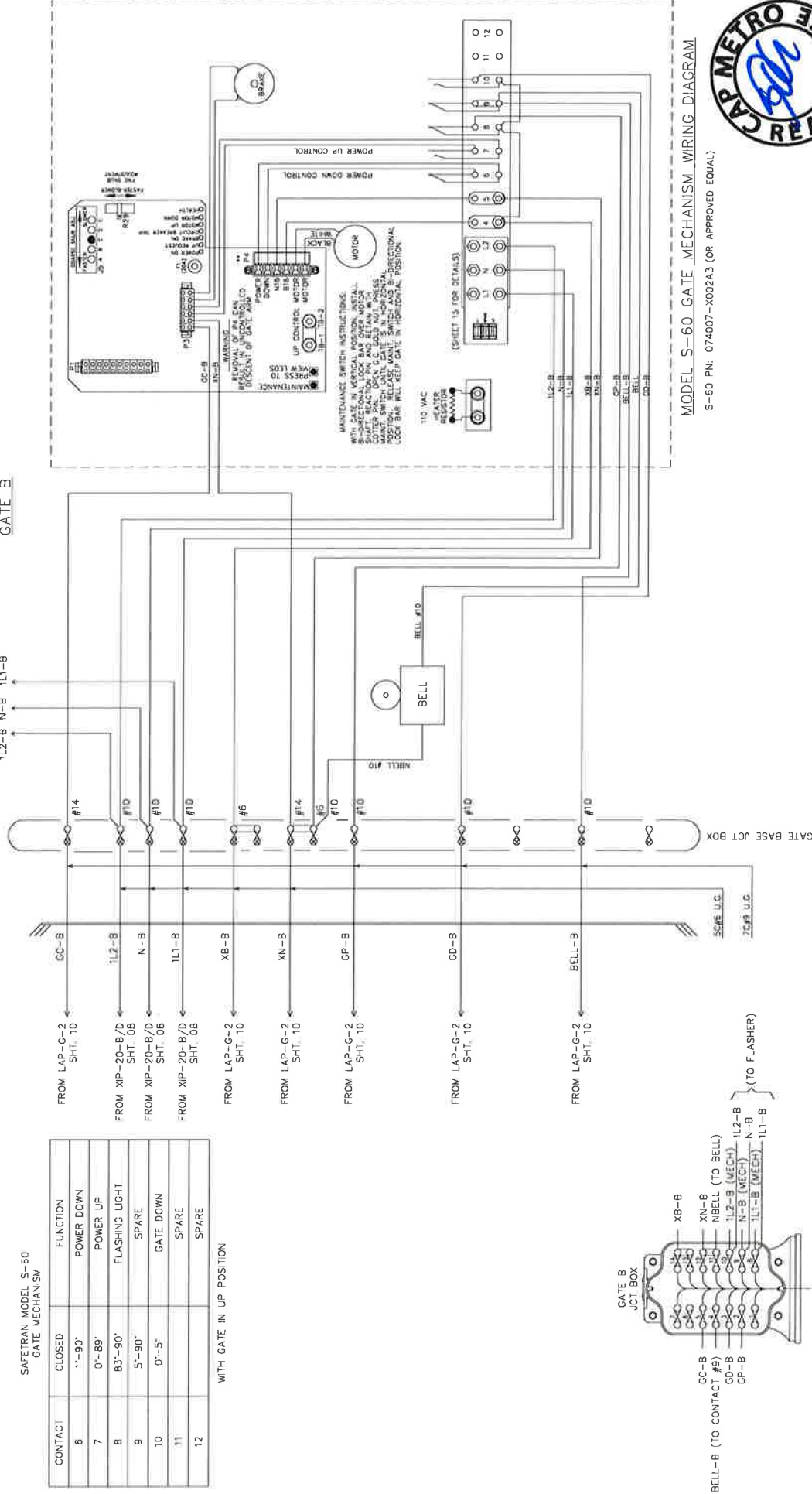
LOCAL
SPAN CTC
DESIGN CTC
ORDERED CTC
IN CHARGE HNTB
DATE 10-18-19

CONTRACT DMC No. 9530-12
REV
GATE MECHANISM A
MP 95.30 - DOT 744 8005
CR 200
WEST SUBDIVISION
CAPITAL METRO

TO MAST MOUNTED FLASHERS
(SHEET 15 FOR DETAILS)
1L2-B N-B 1L1-B

CONTACT	CLOSED	FUNCTION
6	1°-90°	POWER DOWN
7	0°-89°	POWER UP
8	83°-90°	FLASHING LIGHT
9	5°-90°	SPARE
10	0°-5°	GATE DOWN
11		SPARE
12		SPARE

WITH GATE IN UP POSITION



MODEL S-60 GATE MECHANISM WIRING DIAGRAM

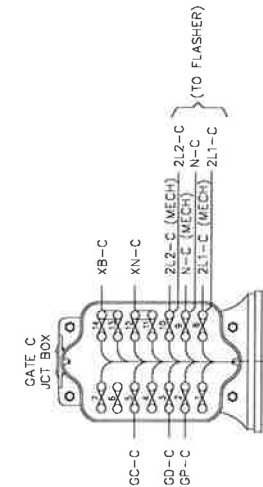
S-60 PN: 074007-X002A3 (OR APPROVED EQUIV.)



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION. THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520 NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW," AS DEFINED IN 49 CFR PARTS 13 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.	 DOT/CTC-2-74748 CTC^{inc} PHONE: (877) 886-8210 FAX: (877) 886-8225 E-MAIL: info@ctcinc.com WWW.CTCINC.COM HNTB A TYPE (RM) REGISTRATION No. 402	15-11-18 CONTRACT DWG No. 9530-14 REV
MP 9530 - DOT 744 8005	CR 200 WEST SUBDIVISION CAPITAL METRO	15-11-18 CONTRACT DWG No. 9530-14 REV

WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION. THIS INFORMATION IS UNCLASSIFIED BY 60320 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO ANY PERSONS WITHOUT A "NEED TO KNOW" AS DEFINED IN 49 CFR PARTS 13 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. NO PART OF THIS RECORD MAY BE DISCLOSED TO ANY PERSON OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES PUBLISHED OR UNPUBLISHED, OR TO ANY OTHER PERSON OR ENTITY. DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

CONTACT	CLOSED	FUNCTION
6	1°-90°	POWER DOWN
7	0°-89°	POWER UP
8	83°-90°	FLASHING LIGHT
9	5°-90°	SPARE
10	0°-5°	GATE DOWN
11		SPARE
		SPARE



— → CABLES TO HOUSE

E-50 FIN: 074007-K002A3 (OR APPROVED EQUAL)

[illegible]

WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR. PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR. PARTS 13 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR. PARTS 15 AND 1520.

GATE D

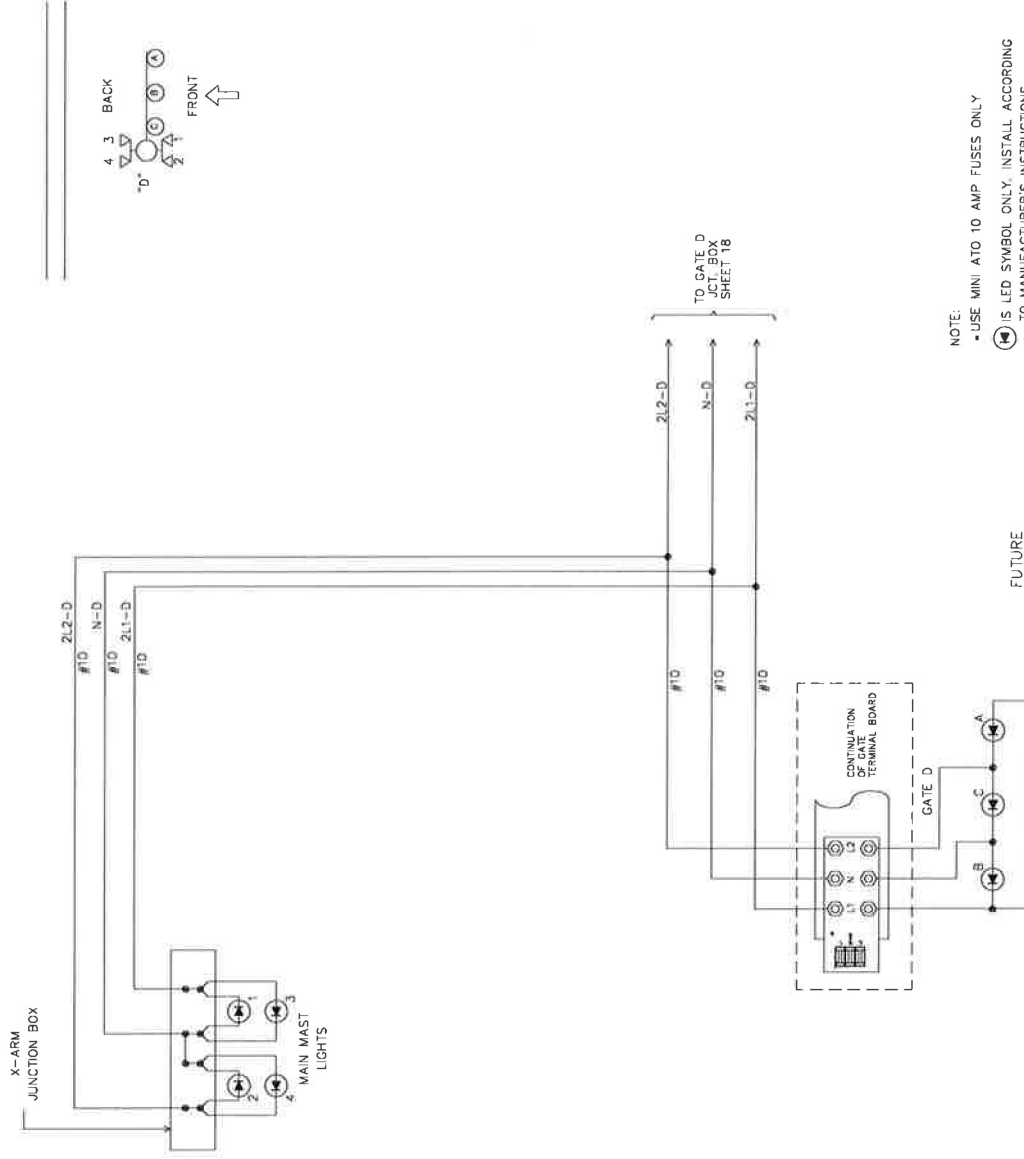
WITH GATE IN UP POSITION

MODEL S-60 GATE MECHANISM WIRING DIAGRAM



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GATE D



NOTE:
 • USE MINI 10 AMP FUSES ONLY
 • S LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS

FUTURE
 NOT PART OF THIS BID



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR. PARTS 15 AND 1552. NO PART OF THIS INFORMATION MAY BE DISCLOSED TO ANY PERSONS WITHOUT A WRITTEN PERMISSION FROM THE SECRETARY OF THE DEPARTMENT OF TRANSPORTATION. THIS INFORMATION IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. FOR A GOVERNMENT AGENCY, THIS INFORMATION IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1552.



SCALE	DATE	CTC
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DATE	10-18-19	

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 800S LIGHTING CIRCUITS D	CONTRACT BMC No. 9530-19	REV
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BIOTECH F-21748

STATE OF TEXAS
ROBERT E. BURKHARDT
808992
NOTARY PUBLIC
COMMISSION EXPIRES 01/01/2008

CHNTB

SCALE	
CHURN	CTC
DESIGNED	CTC
CONCRETE	CTC
IN CHARGE	HNTB
DATE	10-15-19

CAPITAL METRO
WEST SUBDIVISION
CR 200
MP 95.30 - DOT 744 800S

CONTRACT	DWG No.	9530-21	REV
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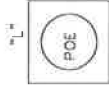


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SCALE		CONTRACT	DWG NO	REV
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IN CHARGE	HNTB			
DATE	10-18-19			

CAPITAL METRO
WEST SUBDIVISION
CR 200
MP 95.30 ~ DOT 744 800S
RACK LAYOUT/SIDE B



9 15 21 27 33 40 45 51 57

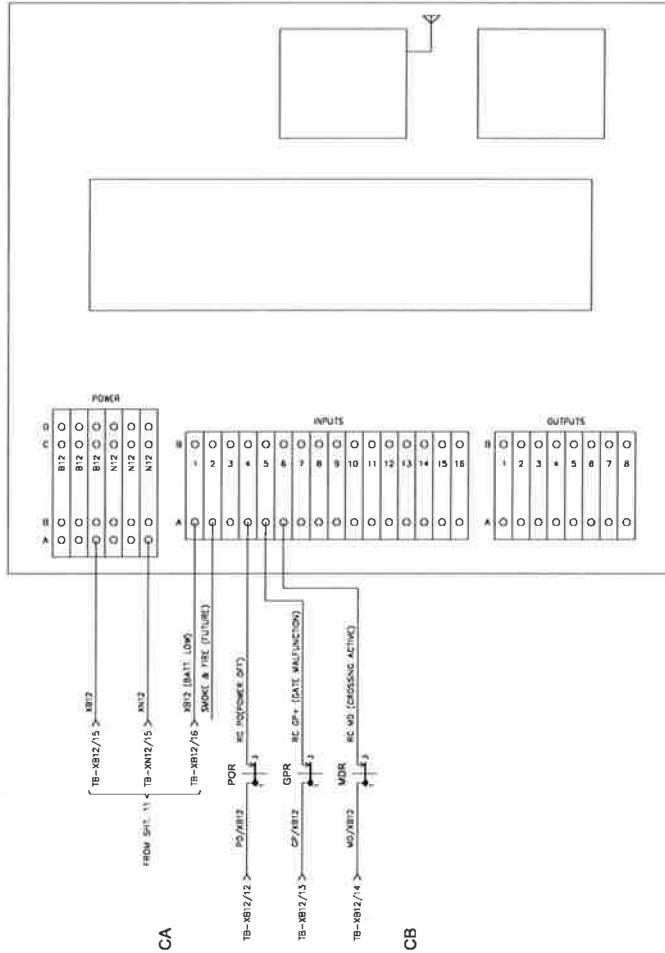
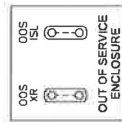
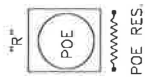


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SCALE	CTC
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W. CHANCE	HNTB
DATE	10-18-19

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 800S SIDE A	CONTRACT BMC No. 9530-23 REV
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NOTES:
1) ALL WIRING JHS AND UNLESS OTHERWISE NOTED.
2) 6 DENOTES TWISTED PAIRS



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR, PARTS 15 AND 1520. DISCLOSURE OF THIS INFORMATION TO UNAUTHORIZED PERSONS WITHOUT A "NEED TO KNOW" MAY BE A VIOLATION OF 49 CFR PARTS 15 AND 1520. EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION, THIS INFORMATION IS NOT TO BE RELEASED TO THE PUBLIC OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES, PUBLIC OR PRIVATE. DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

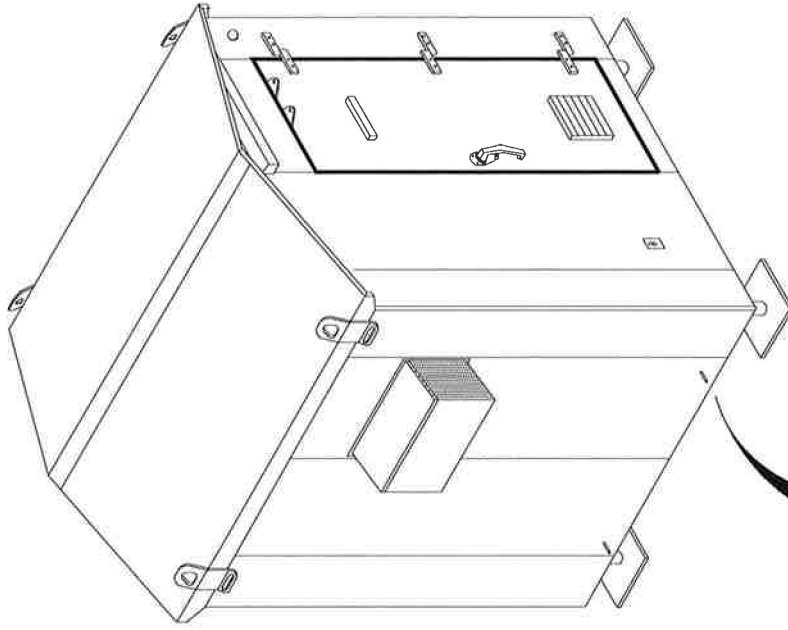


SCALE	CTC
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DESIGNED	CTC
CHECKED	CTC
BY CHANGE	HNTB
DATE	10-18-19

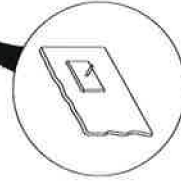
CAPITAL METRO
WEST SUBDIVISION
CR 200
MP 95.30 - DOT 744 800S

SIDE C

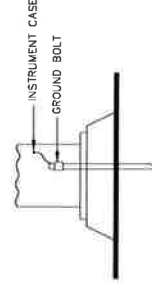
CONTRACT	DWG No.	REV
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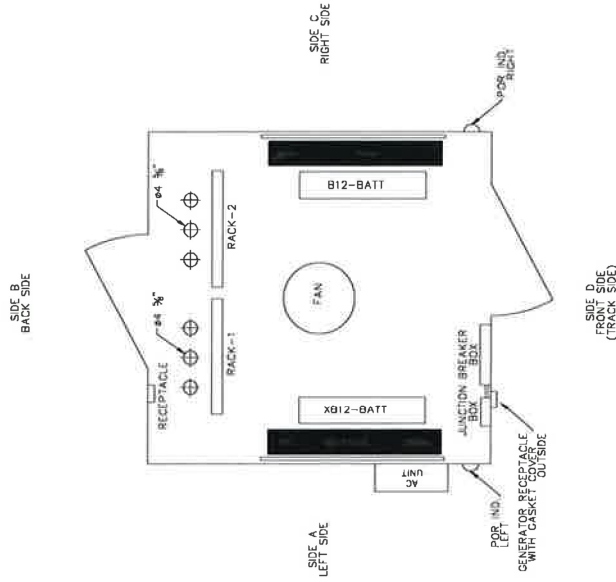
ISOMETRIC VIEW
6'X6' ALUMINUM HOUSE
PTMW (OR APPROVED EQUAL)



GROUND POST



TYPICAL GROUND LAYOUT AT CASE

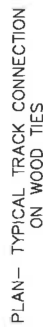


WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR, PARTS 15 AND 1520 AND PART OF THIS RECORD MAY BE DISCLOSED TO A PERSON OR ENTITY WHO IS NOT AUTHORIZED TO RECEIVE PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE SECRETARY OF THE DEPARTMENT OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR CRIMINAL SANCTIONS. THIS INFORMATION IS COVERED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.



SCALE	SPRINK	CTC
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DATE	10-18-19	

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 800S HOUSE DETAIL	CONTRACT	DWG. No.	9530-25	REV
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- [illegible]



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION (SSSI) AND IS UNCLASSIFIED UNDER 18 C.F.R. PARTS 15 AND 152.02 PART 152.02(b) IS "NEED TO KNOW" AS DEFINED IN 49 C.F.R. PARTS 13 AND 152.02, EXCEPT WITH THE WRITTEN PERMISSION OF THE SECRETARY OF TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF HOMELAND SECURITY. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION FOR U.S. GOVERNMENT AGENCIES, PUBLIC EMPLOYEES, OR CONTRACTORS. THIS INFORMATION IS GOVERNED BY 5 U.S.C. 552 AND 49 C.F.R. PARTS 13 AND 152.02		BIOTECHE F-1748  U.S. DEPARTMENT OF HOMELAND SECURITY OFFICE OF TRANSPORTATION SECURITY		CTC inc PH: (817) 886-8210 FAX: (817) 886-8225 E: info@ctcinc.com WWW: WWW.CTCINC.COM		HNTB REGISTERED PROFESSIONAL ENGINEERS STATE OF TEXAS, NO. 400		SCALE <table border="1"> <tr> <td>STATION</td> <td>CTC</td> </tr> <tr> <td>SECOND</td> <td>CTC</td> </tr> <tr> <td>3rd-4th</td> <td>CTC</td> </tr> <tr> <td>IN CHARGE</td> <td>HNTB</td> </tr> <tr> <td>DATE</td> <td>10-18-19</td> </tr> </table>		STATION	CTC	SECOND	CTC	3rd-4th	CTC	IN CHARGE	HNTB	DATE	10-18-19	CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 8005 TRACK WIRE TYPICAL		CONTRACT		DWG No. 9530-26		REV	
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DATE	10-18-19																										

1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THESE APPROVED PLANS. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE PLAN REVISIONS AND APPROVAL BY CAPITAL METRO (CMTA).
2. THE EXISTING UTILITIES SHALL BE LOCATED PRIOR TO COMMENCING ANY EXCAVATIONS. APPROVAL OF THE PROJECT BY CMTA DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITIES OR UTILITIES LOCATED WITHIN THE LIMITS OF THIS PROJECT. THE APPROPRIATE REGIONAL NOTIFICATION CENTER (TEXAS EXCAVATION SAFETY SYSTEM SERVICE ALERT (ONE CALL) AT (800)344-6377, <http://www.onecall.com>) AND ALL UTILITIES COMPANIES, AND UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, IDENTIFYING, AND MARKING ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, CONDUIT, DUCT, WIRE, OR OTHER STRUCTURE. REFER TO CMTA'S WEBSITE <http://www.capmetro.org/alloway/> TO ENSURE PROPER CONTRACT INFORMATION AND PHONE NUMBERS.
3. CMTA IS NOT A MEMBER OF ONE CALL. IT IS, THEREFORE, NECESSARY TO CALL ONE CALL'S SIGNAL SUPPORT SERVICES (JUSTIN SMITH AT 512-953-4615) TO MARK AT THE CONTRACTOR'S EXPENSE, SIGNAL AND COMMUNICATION CABLES AND CONDUITS. IN CASE OF SUCH EMERGENCIES OR ROADWAY-RAIL GRADE CROSSING PROBLEMS, THE CONTRACTOR SHALL CALL CMTA'S 24-HOUR SIGNAL EMERGENCY NUMBER (844)352-8046.
4. WHEN THE CROSSINGS INVOLVE NEW OR RELOCATED GATES, THE MINIMUM REQUIRED CLEARANCE FROM EXISTING OVERHEAD WIRES SHALL BE MAINTAINED, AND GATE FOUNDATIONS CHECKED FOR UTILITIES. IF UTILITIES CANNOT BE LOCATED, POtholing SHALL BE DONE TO LOCATE THE UTILITIES. CMTA AND APPROPRIATE UTILITY AGENCIES SHALL BE NOTIFIED IMMEDIATELY WHEN UTILITY LINES NOT KNOWN OR INDICATED ON THE DRAWINGS ARE ENCOUNTERED. NO SERVICE SHALL BE INTERRUPTED UNTIL THE UTILITY OWNER AND CMTA HAVE DETERMINED THE REQUIRED ACTION ON SUCH LINES.
5. BARRICADES AND WARNING SIGNS: BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ARE GENERALLY LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT TO ASSURE EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.
6. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF ANY AND ALL EXISTING STRUCTURES ON SITE AS NOTED IN THE PLANS. CONTRACTOR SHALL REMOVE ITEMS AS DETAILED IN THE PLANS.
7. THE INFORMATION CONTAINED ON THESE DRAWINGS IN REGARDS TO EXISTING UTILITIES, TOPOGRAPHY, CONTOURS, OR SUBSURFACE CONDITIONS IS FURNISHED SOLELY AS THE BEST INFORMATION AVAILABLE AT THIS TIME. ITS ACCURACY IS NOT GUARANTEED AND ITS USE IN NO WAY RELIEVES THE CONTRACTOR OF ANY RESPONSIBILITY FOR LOSSES DUE TO ANY INACCURACIES.
8. THE CONTRACTOR SHALL NOTIFY CAPITAL METRO BEFORE BEGINNING ANY UTILITY CONSTRUCTION IN PUBLIC ROW, OR PUBLIC EASEMENT. NO PIPE SHALL BE LAID UNTIL CMTA OR ITS REPRESENTATIVE HAS MET WITH THE CONTRACTOR OR HIS REPRESENTATIVE AT THE PROJECT SITE.
9. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITIONS, INCLUDING REVEGETATION (HYDROMULCH) AND GRADING TO DRAIN AS REQUIRED BY THE CITY AND TxDOT AS APPLICABLE AT NO ADDITIONAL COST TO CAPITAL METRO.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ITS OWN SURVEY.
11. NO WORK WILL BE PERMITTED DURING WEEKDAY COMMUTE HOURS LESS THAN TWENTY- FIVE (25) FEET HORIZONTALLY FROM CENTERLINE OF THE NEAREST RAIL UNTIL AFTER 9:00 AM AND PRIOR TO 3:30 PM. WORK CLOSER THAN TWENTY-FIVE (25) FEET FROM CENTERLINE OF THE NEAREST RAIL MAY REQUIRE A NIGHT OR WEEKEND SCHEDULE. SOME WORK PERFORMED MORE THAN TWENTY-FIVE (25) FEET HORIZONTALLY FROM CENTERLINE OF THE NEAREST RAIL MAY BE RESTRICTED DUE TO TYPE OF EQUIPMENT BEING USED WITH THE POTENTIAL TO FOLL THE TRACKS) TO NIGHT AND WEEKENDS WHEN SO REQUIRED BY THE APPROVED SITE-SPECIFIC WORK PLAN (SSWP).
12. EMPLOYEE-IN-CHARGE (EIC) SHALL BE PROVIDED BY CMTA AT NO COST TO THE CONTRACTOR (MAXIMUM OF 2 EIC/DAY FOR 8 HOURS/DAY FOR 6 DAYS). CONTRACTOR SHALL PAY FOR ANY EIC COSTS BEYOND THIS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES.

4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIAL MAY BE PURCHASED FROM OSHA, 903 SAN JACINTO, RM. 319, AUSTIN, TEXAS 78701) AS WELL AS FRA (FEDERAL RAILROAD ADMINISTRATION) REQUIREMENTS FOR ROADWAY WORKERS.

WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 48 C.F.R. PARTS 15.1502 AND 15.1503. THIS RECORD MAY BE DISCLOSED TO PERSONS OTHER THAN AUTHORIZED PERSONNEL WITHOUT C.F.R. PARTS 13 AND 1502, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR CRIMINAL PROSECUTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE OF THIS INFORMATION IS AUTHORIZED BY 5 U.S.C. 552 AND 55 C.F.R. PARTS 13.13 AND 1507.

[illegible]

GRADING NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. BARRICADING, TRAFFIC CONTROL AND PROJECT SIGNS SHALL CONFORM TO STATE AND CITY BARRICADING AND CONSTRUCTION STANDARDS AS APPLICABLE AND THE CONTRACT SPECIFICATIONS.
3. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS, INCLUDING GRADES AND DIMENSIONS, BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE. IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER, PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
4. PROPOSED SPOT ELEVATION AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE EROSION CONTROL PLAN, FRA REQUIREMENTS, AND THE RELATED REGULATIONS OF THE CITY AND TxDOT.
3. A PRE-CONSTRUCTION CONFERENCE AS REQUIRED BY THE CITY SHALL BE HELD ON-SITE WITH THE CONTRACTOR, ENGINEER OF RECORD, CMTA, AND THE CITY AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK.
4. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE ENGINEER AND CMTA OR ITS REPRESENTATIVE AS APPROPRIATE. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
5. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY AND PERFORMED REQUIREMENTS OF THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL MAINTAIN THE NEAREST SUCCESSFUL REMAINS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
6. PRIOR TO FINAL ACCEPTANCE BY CAPITAL METRO AND THE CITY, HAIL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED. ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES. CITY SHALL ISSUE FINAL PERMIT PRIOR TO REMOVAL OF SWPPP.
7. WHERE SILT FENCE CANNOT BE PROPERLY INSTALLED USE TRIANGULAR FILTRATION DIKES, HAY BALES OR OTHER METHOD THAT CAN BE INSTALLED AS APPROVED BY THE ENGINEER.
8. CONTRACTOR SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AS REQUIRED TO COMPLETE THE WORK AND SHALL PROVIDE A PROJECT SITE BOARD WITH PROJECT ITEMS AS REQUIRED.

QUIET ZONE NOTES

1. INSTALLATION OF QUIET ZONE IMPROVEMENTS SHALL MEET REQUIREMENTS SET IN 49 CFR PARTS 222 AND 229.

RAILROAD NOTES

1. ALL INFORMATION ASSOCIATED WITH THE CAPITAL METRO RIGHT-OF-WAY (ROW) REQUESTS CAN BE LOCATED ON THE CMTA WEBSITE VIA THE FOLLOWING INTERNET ADDRESS: [HTTP://WWW.CAPMETRO.ORG/RAILROW](http://www.capmetro.org/raillow).

CAPITAL METRO MUST APPROVE ALL ACCESS TO AND ACTIVITIES WITHIN THE CAPITAL METRO ROW PRIOR TO ENTERING INTO THE RAILROAD ROW OR THE PERFORMANCE OF ANY WORK. ALL INDIVIDUAL(S)/CONTRACTOR(S) REQUIRING ACCESS TO THE RAILROAD ROW MUST HAVE AN APPROVED LICENSE AGREEMENT AND/OR WORK PERMIT PRIOR TO ANY WORK WITHIN THE RAILROAD ROW. INDIVIDUAL(S)/CONTRACTOR(S) SHALL FOLLOW ALL SAFETY REQUIREMENTS OF CAPITAL METRO AND ALL WORKERS PERFORMING WORK IN THE RAILROAD ROW MUST SUCCESSFULLY COMPLETE THE CAPITAL METRO ROADWAY WORKER CERTIFICATION. AT ALL TIMES, A VALID CERTIFICATION CARD MUST BE IN THEIR POSSESSION WHILE IN THE RAILROAD ROW.

ANY WORK WITHIN THE FOUL ZONE (25 FEET FROM THE CENTER OF THE TRACK) OF THE RAILROAD ROW CAN ONLY PROCEED WITH THE PRESENCE OF A QUALIFIED EMPLOYEE IN CHARGE (EIC). ANY WORK INVOLVING EQUIPMENT THAT HAS THE POTENTIAL TO ENTER THE FOUL ZONE MAY ONLY BE PERFORMED WITH THE PROTECTION OF A QUALIFIED EIC. SCHEDULING OF EICs IS COORDINATED BY CAPITAL METRO RAIL OPERATIONS.

CONTRACTOR SHALL NOTIFY CMTA AND ITS MOW AND OPERATIONS CONTRACTOR, HERZOG TRANSIT SERVICES, THREE (3) WEEKS BEFORE COMMENCING WORK WITHIN THE CAPITAL RIGHT-OF-WAY. ORDER TO SCHEDULE ROADWAY WORKER TRAINING CLASS, TRACK ACCESS, AND EMPLOYEE-IN-CHARGE (EIC) SERVICES IF NEEDED AND SCHEDULE TRACK OUTAGES.

ROADWAY WORKER TRAINING IS PROVIDED BY HERZOG TRANSIT SERVICES (HTS). CONTACT HTS'S DIRECTOR OF SAFETY AND TRAINING (JAMES BEADLE) AT (512)284-3954 FOR INFORMATION REGARDING TRAINING. THE COST OF EIC SERVICES ARE \$70/HOUR AND \$100/HOUR FOR OVERTIME BEYOND MAXIMUM OF 2 EIC/DAY FOR 8 HOURS/DAY.

2. COMPLY WITH ALL CONDITIONS OF PERMIT FOR CONSTRUCTION IN RAILROAD ROW

3. CONSTRUCTION IN RAILROAD ROW MUST BE AS PER RAILROAD SPECIFICATIONS AND HAVE INSURANCE REQUIRED PER CMTA.

4. THE CONTRACTOR MUST REQUEST THAT ALL RAILROAD SIGNAL CABLES WITHIN THE LIMITS OF CONSTRUCTION BE LOCATED AND TAKE CARE NOT TO DAMAGE THEM. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO CAPITAL METRO SIGNAL EQUIPMENT OR TRACK.



WARNING: THIS INFORMATION CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR, PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO ANY PERSON OR ENTITY OTHER THAN THE PERSON(S) AUTHORIZED BY PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATION OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR CRIMINAL PROSECUTION. THIS INFORMATION IS CONTROLLED. DISCLOSURE IS COVERED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.



SCALE	DATE	BY	REV
FORM	10-18-19	HTB	
RECORD		CTC	
DRAWN		CTC	
IN CHARGE		CTC	
DATE		HTB	
10-18-19		HTB	

CAPITAL METRO WEST SUBDIVISION CR 200 MP 95.30 - DOT 744 8005 GENERAL NOTES SH. 2 OF 2	CONTRACT	DWG No.	9530-GN-02	REV
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SHEET INDEX

SHEET NO.

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2	SHEET INDEX
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4	GENERAL NOTES SHEET 2 OF 2
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6	TRACK PLAN AND PROFILE SHEET 1 OF 2
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11	TXDOT STANDARDS
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11	COVER SHEET & INDEX
12	RAILROAD SIGNAL LAYOUT
13	GATE ASSEMBLY TYPICAL
14	XP4 SETUP SHEET
15	XP4 CIRCUITS
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19	XP4 CIRCUITS
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25	XP4 CIRCUITS
26	XP4 CIRCUITS
27	XP4 CIRCUITS
28	XP4 CIRCUITS



WILLIAMSON
COUNTY
PRECINCT
#2



METRO



HNTB

CR 200
AT-GRADE CROSSING
MP 95.30 LIBERTY HILL, TX
INDEX OF SHEETS
SHEET 1 OF 1

SHEET 2

EXHIBIT B
PRE-APPROVED CONTRACTOR LIST

DESIGN CONTRACTORS

HNTB
Huitt Zollars
LJA Engineering, Inc.
Bowman Engineering & Consulting
Bridgefarmer & Associates

CONSTRUCTION CONTRACTORS

Herzog Transit Services
Koppers Railroad Structures
E80 Plus Constructors
RailWorks Track System
M&M Sales & Service
COLO Railroad Builders
Queen City Railroad Construction
Lone Star Railroad Contractors
Balfour Beatty
R J Corman
Delta Railroad Construction
Atlas Railroad Construction, LLC
Osmose Railroad Services, Inc.
Hulcher Services, Inc.
Austin Bridge & Road
Kiewit Infrastructure South Company
McCarthy

EXHIBIT C
INSURANCE PROVISIONS

- (1) **Comprehensive General Liability Insurance** coverage with limits of not less than One Million Dollars and No/100 Dollars (\$1,000,000) per occurrence Combined Single Limit of Liability for Bodily Injury and Property Damage with an aggregate of Two Million Dollars and No/100 Dollars (\$2,000,000) with coverage that includes:
 - (i) Products and Completed Operations Liability
 - (ii) Independent Contractors
 - (iii) Personal Injury Liability extended to claims arising from employees of Contractor and the Authority.
 - (iv) Contractual Liability pertaining to the liabilities assumed in the agreement.
- (2) **Automobile Liability Insurance** covering all owned, hired and non-owned automobiles used in connection with work with limits not less than One Million and No/100 Dollars (\$1,000,000) Combined Single Limit of Liability for Bodily Injury and Property Damage.
- (3) **Workers' Compensation Insurance** providing Statutory Workers' Compensation coverage in the State of Texas. Employers Liability Insurance with minimum limits of liability of One Million Dollars and No/100 Dollars (\$1,000,000).

Other Insurance for Construction Contractor:

- (4) **Builders Risk/Equipment Installation** insurance covering the full value of equipment being installed. Insurance should provide coverage for all peril and provide Replacement Cost for the equipment in the event of a loss.
- (5) **Pollution Liability Insurance** with limits of not less than One Million Dollars and No/100 Dollars (\$1,000,000) with an aggregate of One Million Dollars (\$1,000,000) per occurrence.
- (6) **Railroad Protective Liability** coverage with limits not less than Five Million Dollars and No/100 Dollars (\$5,000,000).
- (7) **Umbrella Liability** Limits of not less than Five Million Dollars (\$5,000,000) per occurrence.

Other Insurance for Engineering and Design Consultant Contractor:

- (1) **Professional Liability Insurance** covering negligent acts, errors and omissions arising from the Contractor's work to pay damages for which the Contractor may become legally obligated. Minimum limits of liability shall be not less than One Million Dollars and No/100 Dollars (\$1,000,000) on an annual aggregate basis.
- (2) **Umbrella Liability** Limits of not less than Five Million Dollars (\$5,000,000) per occurrence.

Note: Such policies of insurance and certificates provided by Licensee shall provide (i) that Licensor is named as an additional insured (except for workers' compensation insurance), (ii) that the named insured's insurance is primary and non-contributory with any insurance maintained by Capital Metro, (iii) a contractual waiver of subrogation where required by written contract or agreement, and (iv) that Capital Metro shall receive notice of any cancellation of the policy.

EXHIBIT D

MEMORANDUM OF LICENSE

THE STATE OF TEXAS §
 § KNOW ALL BY THESE PRESENTS:
COUNTY OF _____ §

MEMORANDUM OF PRIVATE ROAD CROSSING LICENSE AGREEMENT

This Memorandum of Public Road Crossing License Agreement (this “**Memorandum**”) is made by and between Capital Metropolitan Transportation Authority (“**Licensor**”), a political subdivision of the State of Texas organized and existing under Chapter 451, Texas Transportation Code, and _____ (“**Licensee**”).

Pursuant to the terms, covenants and conditions of that certain Public Road Crossing License Agreement dated _____, 202_ between Licensor and Licensee (the “**Agreement**”), Licensor has granted Licensee a non-exclusive license in, on, over, through and across the property described on Exhibit A attached hereto (the “**Crossing Area**”), for the limited purpose of constructing, modifying, maintaining and using a public road in accordance with the terms of this Agreement (the “**Crossing**”).

Licensor may elect to relocate the Crossing to a location which continues to provide access to the Licensee Property, in which case Licensor may record an amendment to this Memorandum updating the legal description of the Crossing Area.

The Crossing is being used for public purposes, and Licensee may not change the use of the Crossing without Licensor’s prior written consent.

The Agreement shall continue in full force and effect until terminated in accordance with the Agreement.

Licensee on behalf of itself and its successors and assigns hereby terminates and releases any and all rights of access over the Crossing Area that were or could have been acquired through prescriptive or other implied rights.

Licensee may not assign the Agreement, or any interest therein to any purchaser, lessee or other holder of the Crossing or to any other person, without the written consent of Licensor. Subject to the foregoing, the Agreement is binding upon and inures to the benefit of the parties thereto, their respective heirs, executors, administrators, successors and assigns. Upon any transfer, conveyance or lease of all or any part of the Crossing, (i) Licensee shall immediately notify Licensor in writing thereof, and (ii) the Agreement and the terms and conditions of the Agreement shall be binding upon and inure to the benefit of the purchaser, transferee or lessee, and shall run with the Crossing. Upon such transfer, conveyance or lease, Licensee shall continue to be jointly and severally liable for the Licensee obligations and liabilities under the Agreement, whether or not Licensee owns the Crossing, unless and until (i) Licensee provides a duly executed assignment and assumption agreement to Licensor evidencing the purchaser’s, transferee’s or lessee’s agreement to assume all obligations and liabilities of Licensee under the Agreement, and (ii) Licensor consents in writing to such assignment.

This Memorandum constitutes notice of the existence of the Agreement, the terms, covenants, and conditions of which are completely incorporated by reference herein to the same extent as if they had been set forth verbatim in this Memorandum.

EXECUTED this ____ day of _____, 2020.

LICENSEE:

Williamson County

THE STATE OF _____ §
COUNTY OF _____ §

This instrument was acknowledged before me on the ____ day of _____, 202__ by _____.

Given under my hand and seal of office this ____ day of _____, 202__.

Notary Public, State of Texas

My Commission Expires: _____