STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

1.0

.

PLANS OF PROPOSED

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STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT PROJECT NO.: STP 2021(242)SRS CSJ: 0920-12-047

JASPER COUNTY

VARIOUS

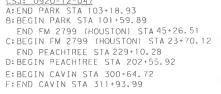
NET LENGTH OF ROADWAY = 6226.49 FT = 1.18 MI NET LENGTH OF BRIDGE = 0.00 FT = 0.00 MI

NET LENGTH OF PROJECT = 6226.49 FT = 1.18 MI

LIMITS FROM: ON FM 2799 FROM MAIN ST TO: PARK LANE

FOR THE CONSTRUCTION OF PEDESTRIAN SIDEWALKS AND CURB RAMPS CONSISTING OF CONSTRUCT PEDESTRIAN INFRASTRUCTURE AT THE CITY OF JASPER IN THE BEAUMONT DISTRICT

<u>CSJ: 0920-12-047</u> A:END PARK STA 103+18.93 B:BEGIN PARK STA 101+59.89 END FM 2799 (HOUSTON) STA 45+26.51 C:BEGIN FM 2799 (HOUSTON) STA 23+70.12 END PEACHTREE STA 229+10.28 D:BEGIN PEACHTREE STA 202+55.92 E:BEGIN CAVIN STA 300+64.72 F:END CAVIN STA 311+93.99





FINAL PLAN

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LOCATION

FILE



SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY, 2012)

EXCEPTIONS: NONE EQUATIONS: NONE R.R. CROSSINGS: N/A

CITY OF JASPER

Denise Kelles

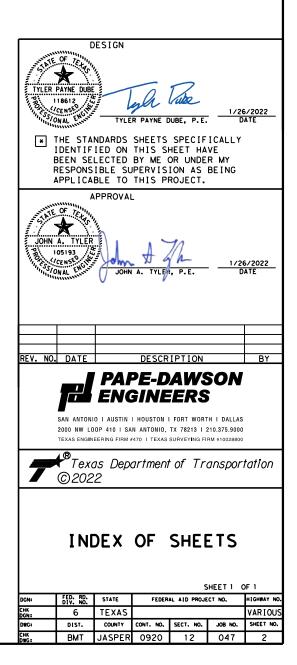
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CITY MANAGE

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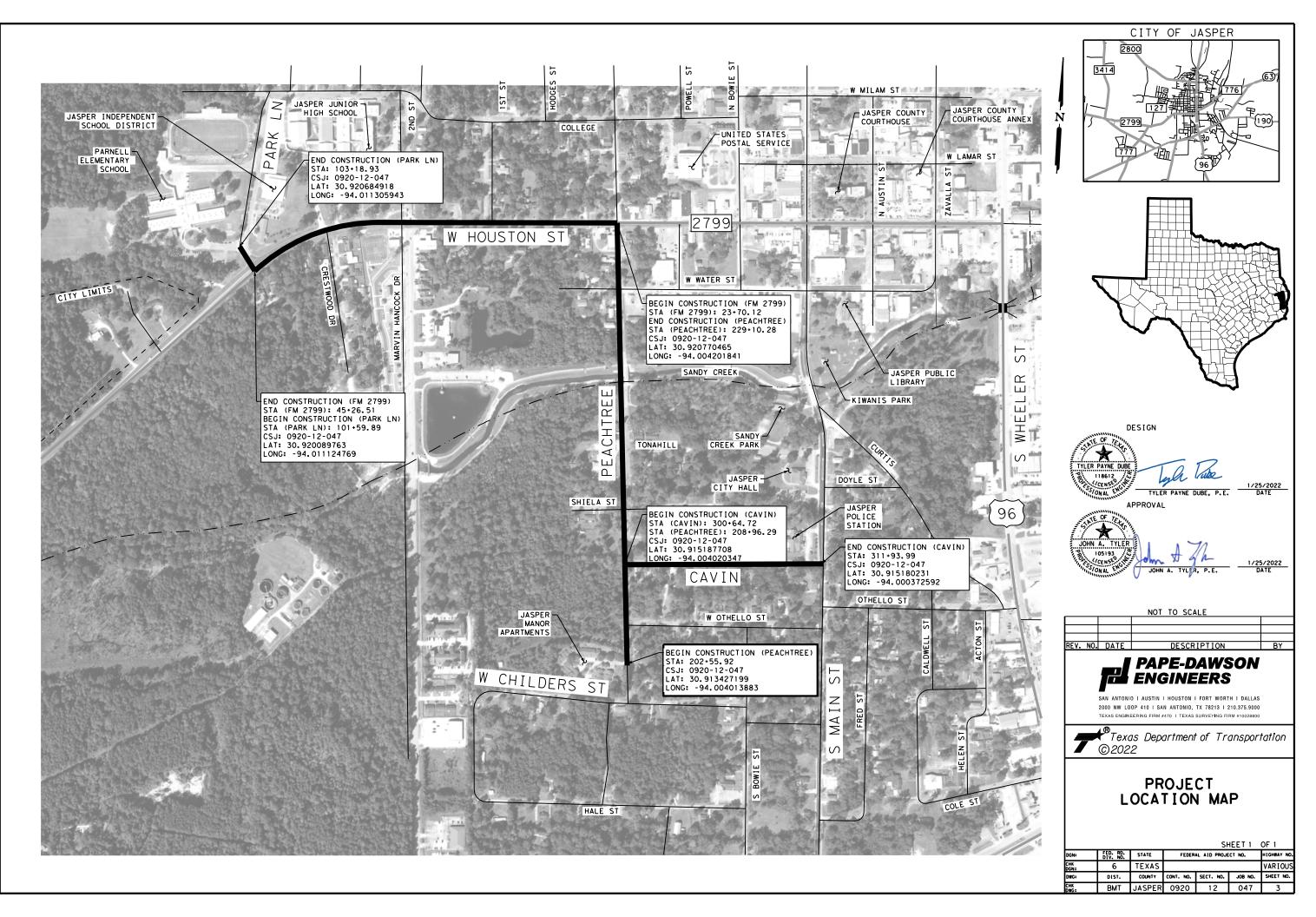
<u>SHEET NC</u>	D. DESCRIPTION
	GENERAL
1	TITLE SHEET
2	INDEX OF SHEETS
3	PROJECT LOCATION MAP
4-7	TYPICAL SECTIONS
8-8G	GENERAL NOTES
9-9A	ESTIMATE & QUANTITIES
10-13	SUMMARY OF ROADWAY QUANTITIES
14	SUMMARY OF INCIDENTAL QUANTITIES & BASIS OF ESTIMATE
15	SUMMARY OF SMALL SIGNS
	TRAFFIC CONTROL PLAN
16	TMA AND TA SUMMARY SHEET
17-28	* BC (1) - 21 THROUGH BC (12) - 21
29	* WZ (TD) - 17
30	* WZ (UL) - 13
31	* WZ (RCD) - 13
32	* WZ (RS)-22
33	* WZ (RS)-22 * WZ (BRK) - 13
34	* TCP (1 - 1) - 18
35	* TCP (1 - 4) - 18
35 36	* TCP (2 - 2) - 18
	ROADWAY
37	SURVEY CONTROL INDEX SHEET
38-39	HORIZONTAL ALIGNMENT DATA SHEET
40	SAMPLE PLAN LAYOUT AND LEGEND OF SYMBOLS
41-49	SPECIAL DETAILS
50	BUILDING WALL DETAIL
51	PARK SIDEWALK PLAN & PROFILE
52-59	FM 2799 SIDEWALK PLAN & PROFILE
60-68	PEACHTREE SIDEWALK PLAN & PROFILE
69-72	CAVIN SIDEWALK PLAN & PROFILE
73	PEACHTREE INTERSECTION DETAIL
74	TREE PROTECTION
75	ARMOR CURB SLOT WITH CONCRETE FOUNDATION
76-77	* TRB-15(1) & TRB-15(2)
78	* CCCG - 21
79-82	* PED - 18
83-85	* PRD - 13
86	* MB - 14 (2)
87	* MB - 14 (2A)
88	* MB - 14 (2B)
89-92	* MB (1) - 21 THROUGH MB (4) - 21
	RETAINING WALL
93	* RW1 (L) A
94	* RW1 (L) B
95	* RW1 (L) C
96	* RW2
	TRAFFIC ITEMS
97	* D & OM (1) - 20
98	* D & OM (2) - 20
99	* SMD (GEN) - 08
100-102	* SMD (SLIP - 1) - 08 THROUGH SMD (SLIP - 3) - 08
103-106	* PM (1) - 20 THROUGH PM (4) - 20
	ENVIRONMENTAL ISSUES
107	SW3P EXAMPLE LAYOUT
108	EPIC
109	SW3P-I
110	INLET PROTECTION SILT FENCE
111	* SW3P-A
112	* EC (1) - 16
112 113	* EC (1) - 16 * EC (2) - 16

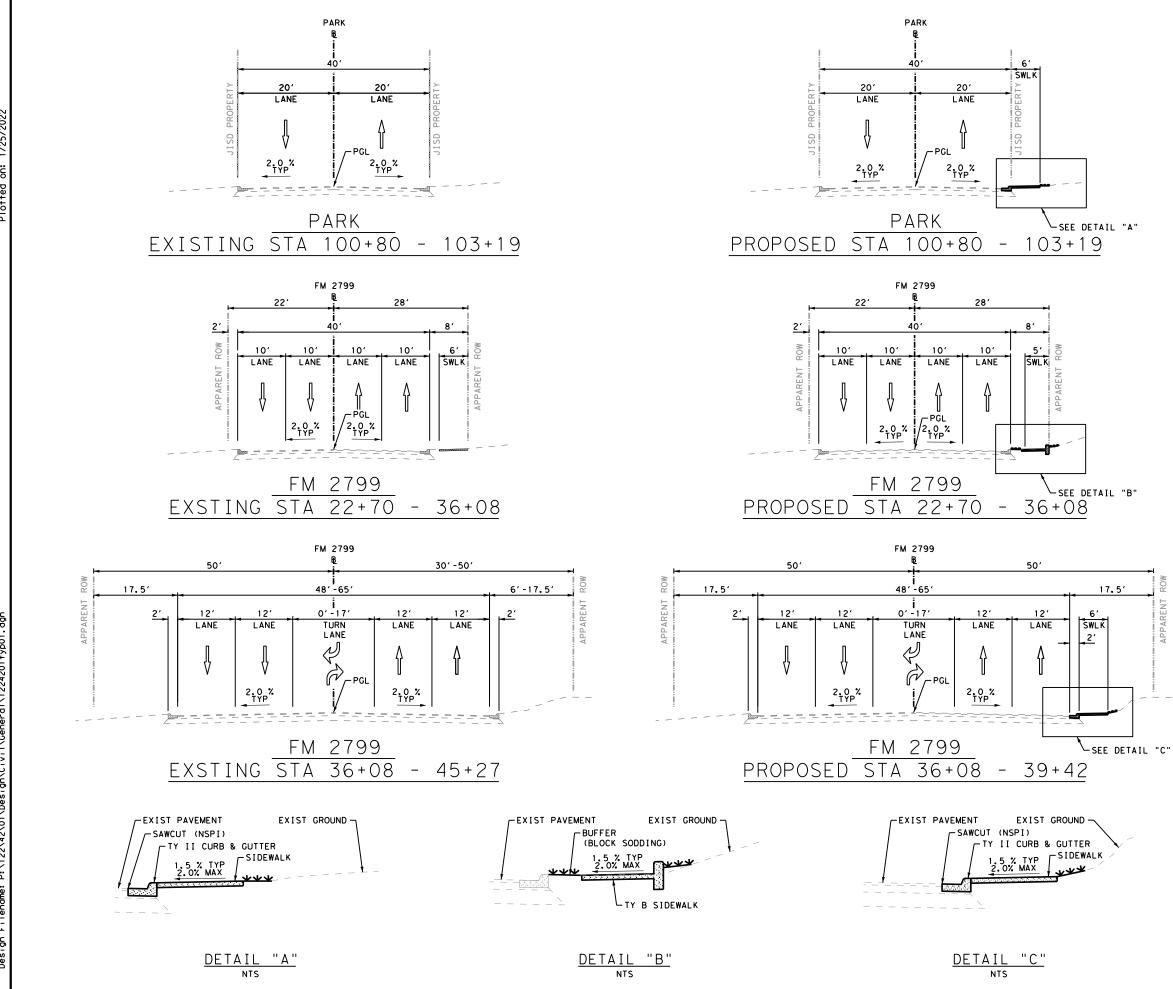
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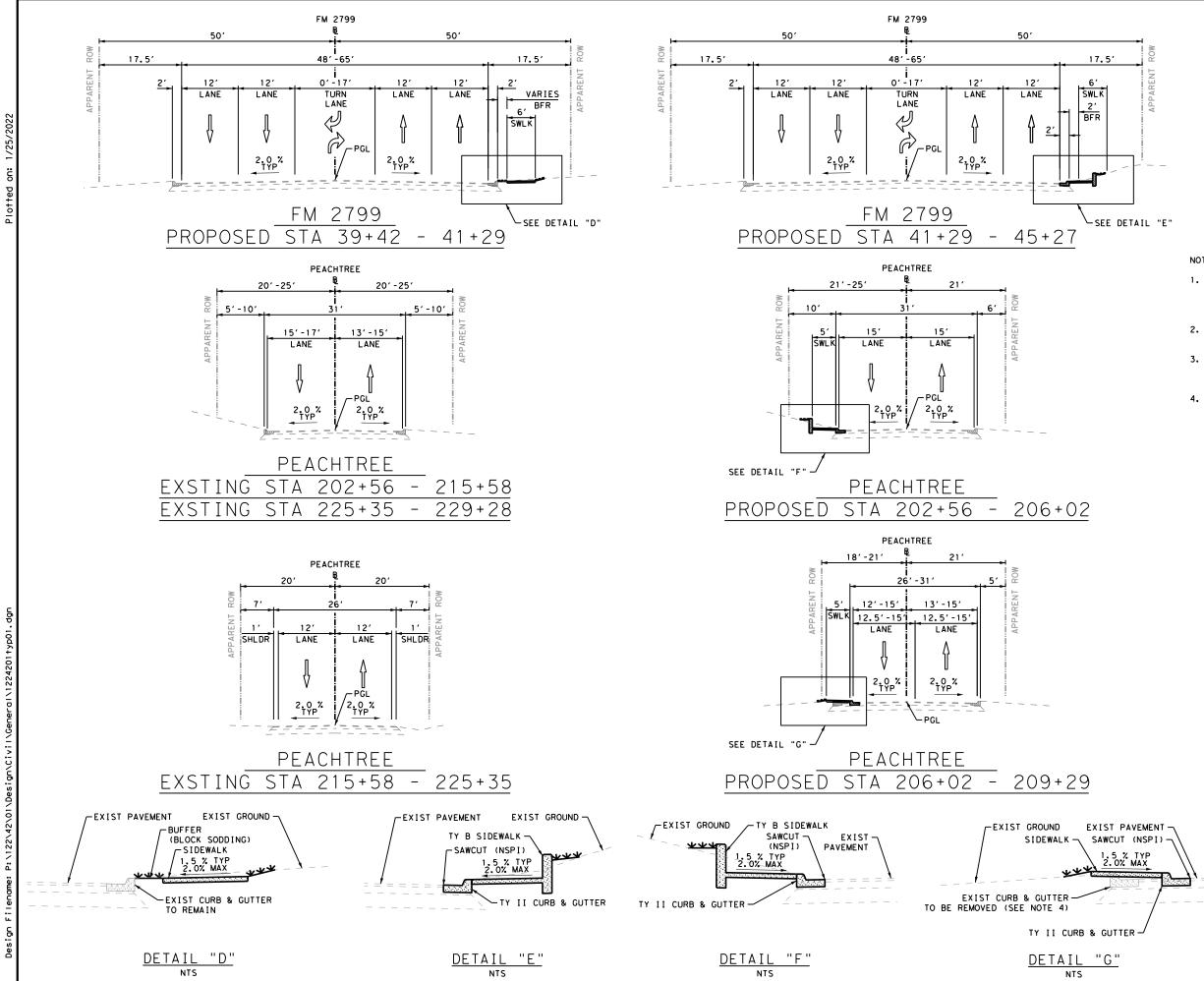
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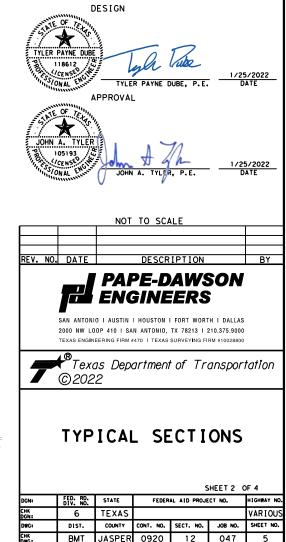
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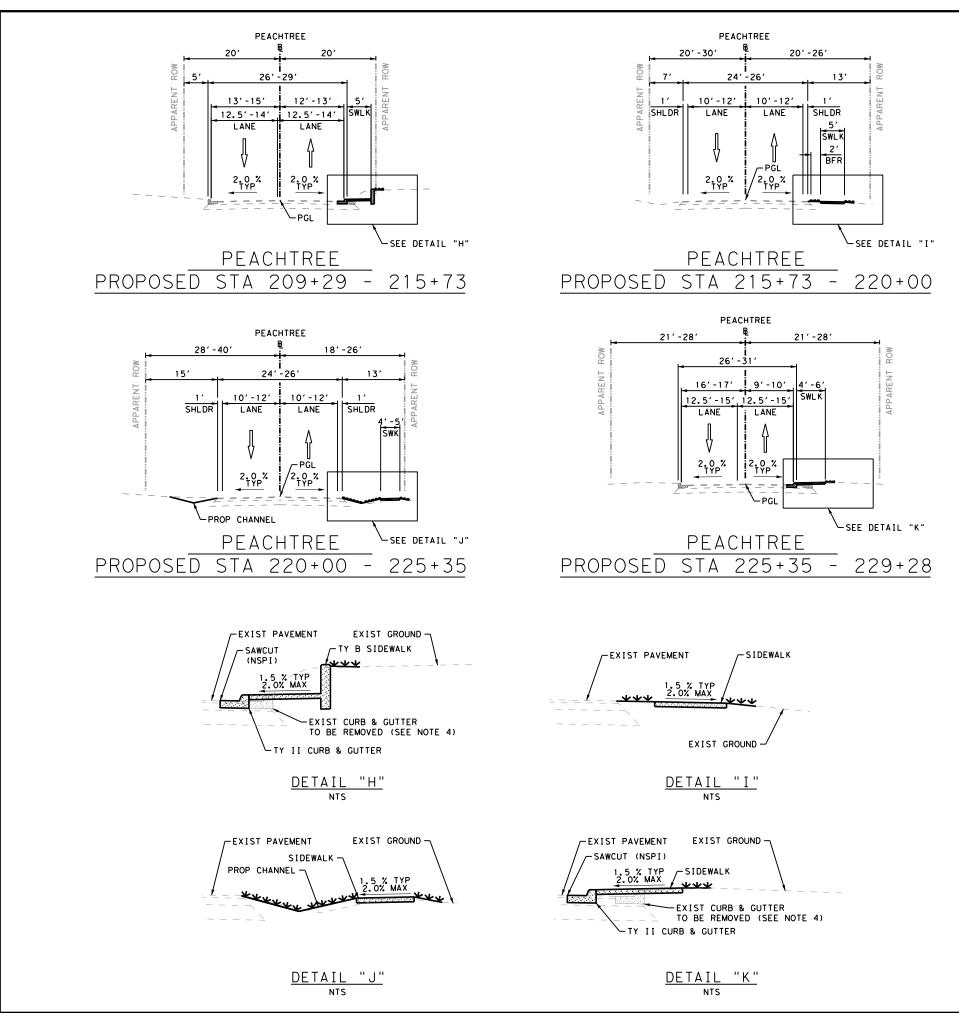
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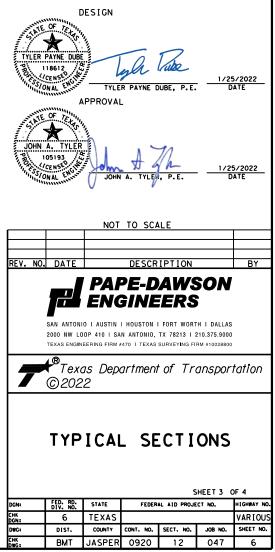


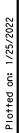
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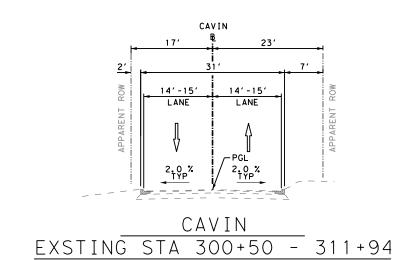
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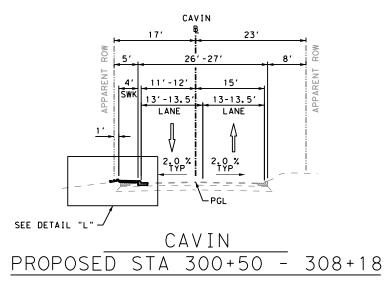
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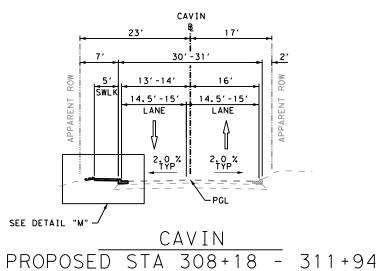








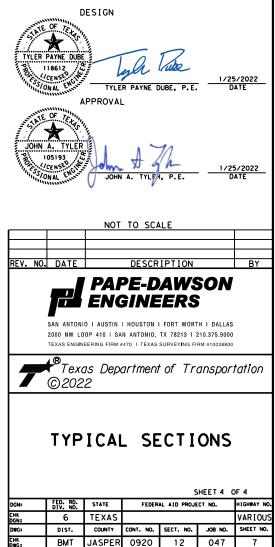




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Highway: Various

Sheet Control: 0920-12-047

GENERAL NOTES:

Contractor questions on this project are to be addressed to the following individual(s):

Name Clint Jones, P.E. –Jasper Area Engineer Email Clint.Jones@txdot.gov Name Jim Grissom - Assistant Area Engineer Email Jim.Grissom@txdot.gov

Contractor questions will be accepted through email, phone and in person by the above individuals.

All contractor questions will be reviewed by the Area Engineer or Assistant Area Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address: https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Assume full responsibility for the preservation of all sod, shrubbery, and trees at the site during construction. Carefully preserve and replace, in their original position, all sod and shrubbery removed. Replace all Contractor damaged sod or shrubbery at the Contractor's own expense.

Maintain adequate drainage throughout the limits of the project during all construction phases. Provide a weekly a list of equipment, including idle equipment, used on the project each week.

Item 000 Utilities

Consider the locations of underground utilities depicted on the plans as approximate and employ responsible care to avoid damaging, or accommodate utility facilities. Depending upon scope and magnitude of planned construction activities, advanced field confirmation by the utility owner or operator may be prudent. Where possible, protect and preserve permanent signs, markers, and designations of underground facilities. If utility damage (breaks, leaks, nicks, dents, gouges, etc.) occurs, contact the utility facility owner or operator immediately. In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others.

County: Jasper Highway: Various

Certain utilities cannot be adjusted on this project until formwork operations are complete. The following utilities will require adjustment after formwork operations have been completed: Various water valve/meter cover adjustments to proposed grade

Item 4 Scope of Work

Remove all vegetation from pavement edges, intersections and driveways before planing or ACP operations. This work will not be paid for directly but will be subsidiary to the various bid items.

It is the Contractor's responsibility to field verify all drainage structure's shown in the plans.

It is the Contractor's responsibility to mark the location of all existing pavement markings and place proposed pavement markings back in the same location or as shown in the plans.

Item 5 Control of the Work

Station the project before commencing work. Mark the stations every 100 feet. Maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract.

Verify all horizontal and vertical control, approach grades to structures and driveways before beginning work. Notify the Engineer immediately if discrepancies are discovered.

When a precast or cast-in-place concrete element is included in the plans, a precast concrete alternate may be submitted in accordance with "Standard Operating Procedure for Alternate Precast Proposal Submission" found online at https://www.txdot.gov/inside-txdot/formspublications/consultants-contractors/publications/bridge.html#design. Acceptance or denial of an alternate is at the sole discretion of the Engineer. Impact to the project schedule and any additional costs resulting from the use of alternates are the sole responsibility of the Contractor.

Item 6 Control of Materials

Flammable/combustible materials must be stored at a designated location as approved.

Do not store flammable/combustible materials under or adjacent to Bridge class structures. Daily removal of these materials will be considered incidental work.

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of concrete pavement or bridge decks will not be permitted unless specifically authorized.

General Notes

Sheet 8 Control: 0920-12-047

Highway: Various

Sheet Control: 0920-12-047

Item 7 Legal Relations and Responsibilities

Furnish all materials, labor and incidentals required to provide for traffic across the highway and for temporary ingress and egress to private property in accordance with article 7.2.4 of the standard specifications at no additional cost to the state. Maintain ingress and egress to the adjacent property at all times. Consider this work to be subsidiary to the various bid items of the contract.

The Contractor will be completely responsible for the immediate removal of any material that gets upon any vehicle as a result of their operation.

Personal vehicles of the Contractor's employees will not be parked within the right of way at any time including any section closed to public traffic, unless the vehicle is being used for construction procedures. However, the Contractor's employees may park on the right of way at sites where the Contractor has their office, equipment and materials storage yard. The following significant traffic generator events have been identified in the project limits:

- JISD Parnell Elementary School Field Day (Spring 2022)
- JISD Early Release (May 26, 2022)
- Jasper Christmas in the Park (November 26, 2022)

Item 8 Prosecution and Progress

Compute and charge working days in accordance with Section 8.3.1.4 Standard Workweek.

Adjoining projects may be in progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects, if applicable. Manage construction of all phases to minimize disruption to traffic.

Notify the Engineer 72 hours in advance of any temporary or permanent lane, ramp or connector affected by closures, detours, or restrictions to lane widths, alterations to vertical clearances or modifications to alignment/radii. Any other modification to the roadway that may adversely affect the mobility of oversized/overweight trucks will require 5 business day advance written notice to the Engineer.

For all travel lanes, ramps, or connector closures, provide information regarding dates, times, typical work hours, type of closure, reason for closure, and expected project duration to the Jasper Area Office. This information will be provided 72 hours in advance of the closure to the Jasper Area Office. If approved, the Jasper Area Office will forward the information to the Public Information Officer for the Beaumont District.

General Notes

County: Jasper Highway: Various

Maintain at least one lane open to traffic during construction, unless otherwise approved.

Schedule work so that all travel lanes are open during non-working hours, nights and weekends, unless otherwise approved.

All edges must be backfilled by the end of the day with a 3:1 or flatter slope. No drop offs will be left overnight.

Complete all work at one corridor before proceeding to a new corridor unless otherwise approved. If additional corridors are approved, erect barricades only for those additional corridors. Maintain barricades at each of these corridors until all work at the site is completed and accepted.

The Engineer will suspend time charges after completion of all work and removal of the barricades. The Department will grant final acceptance when all performance periods are complete. The number of working days for final acceptance will be 14 working days after the completion of the project.

Accrue Contract time charges through the Contractor's completion of the final punch list. Time will not be suspended until all work is completed.

Provide a sequence of work with an estimated project schedule to the Engineer at the preconstruction meeting. By noon of each Wednesday, provide the Engineer a written outline of the proposed work schedule for the following week. This outline will also list the times and places for any proposed traffic control changes.

Monthly critical path method (CPM) updates are a very important aspect of managing the progress of this project. CPM planning schedule software will be required on this project as stipulated in the special provisions to the plans. An updated electronic schedule will be provided to the Engineer by the tenth day of each month. The Engineer may withhold the monthly estimate if the schedule update has not been received.

For this project, create and maintain the critical path method (CPM) schedule.

Work will not be permitted when impending bad weather or low temperatures may impair the quality of work.

The construction sequence may be modified as directed and approved.

Sheet 8A

Control: 0920-12-047

Highway: Various

Sheet Control: 0920-12-047

Working days will be charged during the observed curing times, even if no other work is being performed.

Item 100 Preparing Right of Way

When tree trimming or tree/brush removal is required from February 15 to September 30, the contractor will provide a qualified biologist with a Bachelor's Degree in biology and demonstrated bird nest survey experience to conduct nesting surveys before work can begin and until vegetation work is completed to ensure compliance with the Migratory Bird Treaty Act (MBTA). See EPIC sheet for details.

Heavy equipment rutting will be graded to the existing terrain profile. Consider this work to be subsidiary to the various bid items of the contract.

Item 104 Removing Concrete

Provide full-depth saw cutting for removal of existing concrete driveways. Consider this work to be subsidiary to the various bid items of the contract.

Sawing of concrete or asphalt is not paid for directly, but is considered subsidiary to this item. See typical sections and Plan & Profile sheets for areas where saw cutting is required.

Item 105 Removing Treated and Untreated Base and Asphalt Pavement

Stockpiling and salvage of existing material is not anticipated. Haul and dispose of material in accordance with applicable local and state regulations.

Item 110 Excavation

No earthwork cross-sections, computer printouts, data files or other volumetric earthwork information was developed for this project.

Do not windrow or stockpile material next to or along the roadway. Remove excess material from the project daily.

Transition the ditch grades and channel bottom widths at structure locations.

Excavated material may be used as Embankment as approved by the Engineer and must meet Type A Embankment requirements. Use only approved channel excavation in the embankment.

Item 132 Embankment

Compaction method specified as "ordinary" compaction.

General Notes

County: Jasper Highway: Various

It is the Contractor's responsibility to advise the Engineer of the location of the material source enough in advance to avoid delay due to testing requirements.

Embankment Type A will conform to the following specification requirements:

- Liquid Limit 45 maximum
- Plasticity Index 15 maximum
- A cohesionless sand will not be permitted

All slopes requiring embankment will be tracked immediately upon final grading to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slopes leaving track marks perpendicular to the direction of the slope. See the EC(1) standard for tracking details. Tracking slopes to prevent erosion will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Item 160 Topsoil

All slopes requiring topsoil will be tracked immediately upon final grading to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slopes leaving track marks perpendicular to the direction of the slope. See EC(1) for Tracking details. Tracking slopes to prevent erosion will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Place topsoil in accordance with the SW3P, in phases, as partial completion of the improvements is achieved.

Item 162 Sodding for Erosion Control Furnish and place St. Augustine sod.

Item 168 Vegetative Watering Equip water trucks with sprinkler systems capable of covering the entire area to be seeded or sodded from the roadway.

Water all newly placed sod or seeded areas the same day of installation. Thereafter, maintain the sod or seeded areas in a well-watered condition and at no time allow the areas to dry to the condition that water stress is evident.

Mechanical watering may not be required during periods of adequate moisture as determined by the Engineer.

Sheet 8B

Control: 0920-12-047

Highway: Various

Sheet **Control:** 0920-12-047

Furnish and apply water at a rate of 6.788 Mega gallons per acre per cycle or as directed on the plans.

Comply with stabilization requirements for 70% grass coverage; uniform vegetative coverage is required. During this period, meter and operate water equipment under pumping pressure capable of delivering the required quantities of water necessary. For permanent sodding each cycle will be executed weekly for 12 weeks, unless directed otherwise.

Provide a log book showing daily water usage and receipts of water applied, in addition to metering the water equipment.

Item 216 Proof Rolling

Perform proof rolling when the moisture content of the subgrade soil is near optimum or at the moisture content at which compaction was achieved. Operate the roller briefly to determine its effect on the subgrade. If consistent lateral displacement occurs, use a lower stress level. After an acceptable stress level is established, make two complete passes over the subgrade.

Do not proof roll over culverts, pipes or other conduits that may be damaged by the proof roller, and in areas where there is not enough maneuvering space.

Proof roll areas as directed.

Item 300 Asphalts, Oils, and Emulsions Furnish non-tracking tack coat meeting the requirements of SP 300-020.

Item 320 Equipment for Asphalt Concrete Pavement Use of motor grader is allowed.

A field laboratory is not required for this project.

Item 340 Dense Graded Hot Mix Asphalt (Small Quantity)

Prepare Mix Designs using the Superpave Gyratory compactor.

Item 351 Flexible Pavement Structure Repair

The repair areas will require full depth saw-cut when milling is not used. Consider this work to be subsidiary to the various bid items of the contract.

Provide Flexible Pavement Repair with Item 340, Type B (PG 64-22) unless approved otherwise.

General Notes

County: Jasper Highway: Various

Place Hot Mix with a constant longitudinal surface grade and tie in flush with the existing surface at each end and both sides of the repair area.

Unless otherwise directed, place new ASB with maximum 4" lifts. The minimum patch sizes will be 6' in width and 10' in length.

Match the existing cross slope in the repair areas, unless directed otherwise.

All repair locations must be filled the same day they are excavated. No open cut areas will be allowed overnight.

All excavated materials will be removed from the project daily.

Ordinary compaction will be used on this project.

Seal the perimeter of the repair areas with hot poured rubber in accordance with Item 712. Consider this work to be subsidiary to the various bid items of the contract.

Item 354 Planing and Texturing Pavement Where the underlying flexible base is exposed during the planing operation, prime this area with an asphalt at a rate as directed and patch with an approved HMA material, at the end of the day's operation in which it occurs. These items of work will not be paid for directly but will be subsidiary to Item 354.

Retain ownership of planed materials.

If the Engineer determines an adjacent driveway needs to be tapered back to prevent a drop-off an additional pass will need to be made to taper the driveway as directed or for a distance of 24" into the driveway. This work will be measured and paid for under Item 354.

Item 420 Concrete Substructures

Construct concrete steps, as shown in the plans or as directed by the Engineer, measured by the cubic yard and paid for as Item 420 Concrete Substructures.

Item 432 Riprap

In large areas of riprap, provide one-half (1/2)-inch thick expansion joint material at approximately 15-foot intervals, or as determined by the Engineer.

Sheet 8C Control: 0920-12-047

Highway: Various

Sheet Control: 0920-12-047

Place asphalt expansion joint material between proposed riprap and utility poles, guy wires, vent pipes, stand pipes and as directed.

Place felt or filter fabric at open joints as required by the Engineer. This will be considered subsidiary.

Item 502 Barricades, Signs, and Traffic Handling

Construct all work zone signs, sign supports, and barricades from material other than wood unless approved otherwise. Metal posts, if used, are to be galvanized. Aluminum signs, if used, will meet the following minimum thickness requirements:

Square Feet	Minimum Thickness
Less than 7.5	0.080 inches
7.5 to 15	0.100 inches
Greater than 15	0.125 inches

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be used for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Restrict work to one side of the roadway at a time.

The following roadways have been determined to be high volume for the purpose identified in Note 4 of the "Typical Location of Crossroad Signs" on the BC(2) standard sheet: FM 2799

The following roadways have been determined to be low volume for the purpose identified in Note 2 of the "Typical Location of Crossroad Signs" on the BC(2) standard sheet: Peachtree, Cavin, Park

Use drums, Opposing Traffic Lane Dividers (OTLDs), and 42" cones as channelizing devices.

Remove all traffic control devices from the right of way when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or along the right of way when not in use, or stored in other approved areas on the project. Cover any

General Notes

County: Jasper Highway: Various

construction signs that are not in effect and are installed in a fashion that will not allow them to be removed from the right of way easily.

Provide construction fencing as directed and approved at all work locations to protect pedestrian or bicycle traffic. This material and its placement will be considered subsidiary to Item 502.

Arrange construction operations to prevent the hauling of materials through the completed pavement sections unless otherwise approved.

Provide all flaggers and pilot vehicle drivers with two-way radio communication capability. Provide flaggers at each side road intersection.

Item 506 Temporary Erosion, Sedimentation, and Environmental Controls Construct all side slopes on rock filter dams with 6:1 slopes.

The Contractor is prohibited from removing grass vegetation throughout the entire project limits and then ceasing construction for long periods, typically over three weeks. The Contractor schedule will be developed based on staged vegetation removal, limiting disturbed soil to no more than 25 percent at one time, unless otherwise approved. Should the Contractor not be able to adequately control sediment and erosion for areas disturbed, the Department will substantially reduce the size of areas that the Contractor may disturb soil.

Should the project be evaluated to have sediment control problems as a result of the Contractor disturbing excessive amounts of soil, the Contractor will be required to immediately re-vegetate (sod and water) those disturbed areas at no cost to the Department.

When specified, the Contractor will implement storm water pollution prevention plan measures using the Items listed below as specified in Item 506 and as directed:

- Temporary Sediment Control Fence
- Vertical Tracking
- Rock Filter Dams
- Erosion Control Logs
- Inlet Protection Silt Fence

The Contractor will designate a cleanout area for concrete trucks. No other area will be allowed without approval of the Engineer.

Sheet 8D

Control: 0920-12-047

Highway: Various

Sheet Control: 0920-12-047

Item 530 Intersections, Driveways, and Turnouts

Welded wire fabric will not be allowed for reinforcing concrete driveways. Use reinforcing steel consisting of No.4 bars meeting the requirements of grade 60 reinforcing steel. Place bars on 12 in. centers in each direction, supported on reinforcing chairs.

Unless otherwise directed, install 1/2 in. pre-molded expansion joint material between existing concrete and new concrete.

Use Class A Concrete for all concrete driveways.

High early strength concrete for proposed driveways to be available as deemed necessary and as directed.

Item 531 Sidewalks

Overlay across the ends of any curb ramps must not create a barrier to their use. Changes in level up to $\frac{1}{4}$ " may be vertical; between $\frac{1}{4}$ " and $\frac{1}{2}$ " must be beveled with a slope no greater than 1:2; greater than $\frac{1}{2}$ " will require a "ramp".

Construct ¹/₄-inch thick score joints at a maximum 6-foot spacing and expansion joints at a maximum 40-foot spacing. For steel reinforcement, use 12-inch spacing with #3 bars or 6x6 - 1D6 welded wire fabric sheets. Welded wire fabric rolls are not permitted.

The curb ramp locations shown in the plans have taken into account the geometric features of the intersection, utilities, traffic signals, and the pavement markings. If anything changes during construction, the location of curb ramps must be adjusted to ensure they meet PROWAG requirements.

The furnishing and installation of the sand cushion in proposed sidewalks, curb ramps, and driveways will not be paid for directly but will be subsidiary to this bid item.

Truncated dome pavers are prohibited.

All detectable warning surfaces are to be prefabricated panels constructed of cast iron or composite materials of contrasting color to the surrounding material, as approved by the Engineer.

Proposed curb ramps, sidewalks, curbs, and riprap are to be doweled 8in minimum, unless otherwise shown, into existing concrete using ¹/₂-in reinforcement placed on 12 in centers.

General Notes

County: Jasper Highway: Various

Curb wall along ramps and landings, unless otherwise shown on the plans, is not paid for separately but is subsidiary to the ramp or landing. If the wall extends above the plane of the ramp, retaining wall should be utilized unless otherwise noted on the plans. See special details sheets for more information.

Areas labeled with a "T" on the construction drawings allow the Contractor to transition to existing conditions. Slope and grade of all transitions must be approved by the Engineer.

For driveways and turnouts, coarse aggregate Grade No. 3 through No. 8 conforming to the gradation requirements specified in the Item, "Hydraulic Cement Concrete" will be permitted.

Construct ADA-compliant curb ramps based upon referenced design criteria, PROWAG and TxDOT Pedestrian Facilities Standards. Consider the locations of existing traffic and pedestrian control devices including loop detectors and pedestrian push buttons during curb ramp construction at signalized intersections, and construct ramps to allow such existing facilities to remain undisturbed and reused to the fullest extent possible while providing for full ADA compliance. All corners are unique and it may be necessary to use various combinations of ramp, landing, wall, and flare elements to achieve an ADA-compliant ramp configuration.

Review the curb ramp location and layout with the inspector prior to demolition so that both parties agree that the curb ramp can be installed properly. Should it become apparent at any time during the ramp layout and construction process that a curb ramp cannot be installed as indicated on the plans, promptly notify the Engineer.

Any approval, inspection, or checking of the Contractor's layout and the acceptance of all or any part of it shall not relieve the Contractor of his responsibility to secure the proper dimensions, grades and elevations of the various parts of the work.

Construction of each curb ramp is to be completed within seven (7) working days after start of construction process. Construction process of curb ramps shall include: demolition of existing conditions, placement of concrete or brick, removal of lips, street surface patching in front of the curb or ramp, adjustment of counter slope within 24-inches of the bottom of the ramp or curb and gutter, street level landings, backfill, placement of topsoil, grading and sodding, and clean-up. All other related work such as adjustment of crosswalk, special heat-welds, asphalt overlays, and other work that does not affect accessibility shall be completed per a schedule pre-approved by the Engineer.

Contractor is to match existing concrete color and texturing at various locations determined by the Engineer.

Sheet 8E

Control: 0920-12-047

County: Jasper Highway: Various

Sheet Control: 0920-12-047

The furnishing and installation of pipe underdrains, filter material, and other incidentals to ensure proper drainage of special concrete sidewalk with retaining wall per Concrete Sidewalk (Special)(Type B) will not be paid for directly but shall be considered subsidiary to this bid item and in accordance with Item 556.

Removal of existing concrete, surfaces, asphalt, base material, sign posts, miscellaneous materials, and all incidentals is included in this pay item within the footprint of the proposed work.

In areas where there is no curb fillet or concrete pavement, saw cut the existing curb and gutter and remove the curb.

When lack of right of way width or obstructions creates insufficient space, the ramp may be relocated within the right of way when authorized by the Engineer.

All deficient ramps will be removed and replaced at the Contractor's expense.

For curb ramps, form tooled joints on each side of the ramp section where it meets a flare or curb wall, at each break in ramp slope or geometry, and at intervals equivalent to the width of the sidewalk for the purpose of cracking control. Place expansion joint material between proposed ramps and existing concrete.

Place expansion joint material between proposed sidewalk and utility poles, guy wires, vent pipes, stand pipes and as directed.

Schedule work such that two-way traffic is provided through all intersections and intersecting streets at all times, unless otherwise authorized by the Engineer.

Limit operations such that no more than 12 separate curb ramp locations are under construction and incomplete at any time, unless otherwise authorized by the Engineer.

Item 556 Pipe Underdrains

Use Type B or C filter material.

Item 560 Mailbox Assemblies

Retain and reuse or, if necessary, replace newspaper holders removed, relocated, or damaged by construction operations for placement on new mailbox assemblies in accordance with mailbox standard sheets. Consider this work subsidiary to this Item.

General Notes

County: Jasper Highway: Various

Repair and, if necessary, replace mailboxes damaged by construction operations. Consider this work subsidiary to this Item.

Coordinate and verify temporary and final mailbox locations with the Engineer and the US Postmaster.

Item 636 Signs and/or Item 644 Small Roadside Sign Assemblies and/or Item 647 Large **Roadside Sign Supports and Assemblies** Remove and retain ownership of all existing signs and sign posts within the project that are not to remain. Remove the signs from the posts. Replace any signs or post damaged by the Contractor at his/her entire expense. Consider this work to be subsidiary to the various bid items of the contract.

Item 677 Eliminating Existing Pavement Markings and Markers Remove all contaminants and loose material. Consider this work to be subsidiary to the various bid items of the contract.

Remove existing raised pavement markers before the addition of the asphaltic pavement. Dispose of the removed markers from the project at the end of each workday. Consider this work to be subsidiary to the various bid items of the contract.

Item 6001 Portable Changeable Message Sign Provide all portable changeable message signs and arrow panels with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

2 electronic portable changeable message sign unit(s) will be required. Individual or collective use of signs will be required by the Engineer when deemed necessary to supplement the traffic control plan.

Sheet 8F Control: 0920-12-047

County: Jasper Highway: Various **Sheet 8G Control:** 0920-12-047

Each sign must have programmed in its permanent memory the following 15 messages:

- 1. Right Lane
- 2. Left Lane
- 3. Closed Ahead
- 4. Two Lane
- 5. Detour Ahead
- 6. Thru Traffic
- Prepare To Stop
- 8. Merging Traffic
- 9. Expect 15 Minute Delay
- 10. Merge Right
- 11. Merge Left

Item 6185

Shadow vehicles with TMA and high intensity rotating, flashing, oscillating or strobe lights are required. Use one TMA preceding every stationary work zone and two TMA's for mobile operations.



CONTROLLING PROJECT ID 0920-12-047

DISTRICT Beaumont HIGHWAY Various **COUNTY** Jasper

Estimate & Quantity Sheet

		CONTROL SECTIO	N JOB	0920-12	-047		
		PROJI	ECT ID	A00132	964		
		CC	DUNTY	Jaspe	er	TOTAL EST.	TOTAL
		HIG	HWAY	Vario			FINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	100-6002	PREPARING ROW	STA	65.000		65.000	
	104-6015	REMOVING CONC (SIDEWALKS)	SY	52.000		52.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	992.000		992.000	
	104-6026	REMOVE CONC (GUTTER)	LF	111.000		111.000	
	104-6029	REMOVING CONC (CURB OR CURB & GUTTER)	LF	1,576.000		1,576.000	
	105-6037	REMOVING STAB BASE AND ASPH PAV(0"-16")	SY	848.000		848.000	
	110-6001	EXCAVATION (ROADWAY)	CY	185.000		185.000	
	132-6001	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	90.000		90.000	
	160-6003	FURNISHING AND PLACING TOPSOIL (4")	SY	3,475.000		3,475.000	
	162-6002	BLOCK SODDING	SY	3,475.000		3,475.000	
	168-6001	VEGETATIVE WATERING	MG	58.500		58.500	
	216-6001	PROOF ROLLING	HR	8.000		8.000	
	351-6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	SY	51.000		51.000	
	354-6021	PLANE ASPH CONC PAV(0" TO 2")	SY	106.000		106.000	
	420-6002	CL A CONC (MISC)	CY	0.500		0.500	
	420-6074	CL C CONC (MISC)	CY	3.400		3.400	
	420-6132	CL A CONC (STEPS)	CY	1.000		1.000	
	423-6008	RETAINING WALL (CAST - IN - PLACE)	SF	5,643.000		5,643.000	
	432-6003	RIPRAP (CONC)(6 IN)	CY	8.000		8.000	
	450-6048	RAIL (HANDRAIL)(TY B)	LF	172.000		172.000	
	471-6003	GRATE & FRAME	EA	12.000		12.000	
	479-6001	ADJUSTING MANHOLES	EA	3.000		3.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	8.000		8.000	
	506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	43.000		43.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	43.000		43.000	
	506-6035	SANDBAGS FOR EROSION CONTROL	EA	906.000		906.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	174.000		174.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	174.000		174.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	2,000.000		2,000.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	2,000.000		2,000.000	
	529-6008	CONC CURB & GUTTER (TY II)	LF	2,814.000		2,814.000	
	529-6020	CONC CURB & GUTTER (ARMOR CURB)	LF	14.000		14.000	
	529-6030	CONC CURB & GUTTER (VALLEY GUTTER)	LF	197.000		197.000	
	530-6004	DRIVEWAYS (CONC)	SY	1,376.000		1,376.000	
	530-6005	DRIVEWAYS (ACP)	SY	57.000		57.000	
	531-6001	CONC SIDEWALKS (4")	SY	1,795.000		1,795.000	



DISTRICT	COUNTY	CCSJ	SHEET
Beaumont	Jasper	0920-12-047	9



CONTROLLING PROJECT ID 0920-12-047

DISTRICT Beaumont HIGHWAY Various **COUNTY** Jasper

Estimate & Quantity Sheet

		CONTROL SECTION	ON JOB	0920-12	-047		
		PROJ	ECT ID	A00132	964		
		C	OUNTY	Jaspe	r	TOTAL EST.	TOTAL FINAL
		ніс	HWAY	Variou	IS		FINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	531-6018	CURB RAMPS (TY 1)	SY	17.000		17.000	
	531-6019	CURB RAMPS (TY 2)	SY	60.000		60.000	
	531-6020	CURB RAMPS (TY 3)	SY	78.000		78.000	
	531-6022	CURB RAMPS (TY 5)	SY	30.000		30.000	
	531-6023	CURB RAMPS (TY 6)	SY	45.000		45.000	
	531-6024	CURB RAMPS (TY 7)	SY	31.000		31.000	
	531-6027	CURB RAMPS (TY 10)	SY	63.000		63.000	
	531-6033	CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	1,256.000		1,256.000	
	560-6025	RELOCATE EXISTING MAILBOX	EA	11.000		11.000	
	644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	9.000		9.000	
	644-6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	11.000		11.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	4.000		4.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	195.000		195.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	72.000		72.000	
	678-6008	PAV SURF PREP FOR MRK (24")	LF	390.000		390.000	
	752-6005	TREE REMOVAL (4" - 12" DIA)	EA	10.000		10.000	
	752-6007	TREE REMOVAL (18" - 24" DIA)	EA	1.000		1.000	
	3076-6003	D-GR HMA TY-B PG64-22 (EXEMPT)	TON	186.000		186.000	
	3076-6066	ТАСК СОАТ	GAL	124.000		124.000	
	3076-6072	D-GR HMA TY-D PG 76-22 (EXEMPT)	TON	60.000		60.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	120.000		120.000	
	6185-6002	TMA (STATIONARY)	DAY	120.000		120.000	
	7196-6011	ADJUST VALVE BOX	EA	5.000		5.000	
	7196-6068	ADJUST METER BOX	EA	9.000		9.000	
	18	SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	
		ENVIRONMENTAL: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Beaumont	Jasper	0920-12-047	9A

	ITEM	0100-6002	0104-6015	0104-6017	0104-6026	0104-6029	0105-6037	0110-6001
	DESCRIPTION	PREPARING ROW	REMOVING CONC (SIDEWALKS)	REMOVING CONC (DRIVEWAYS)	REMOVE CONC (GUTTER)	REMOVING CONC (CURB OR CURB & GUTTER)	REMOVING STAB BASE AND ASPH PAV(0"-16")	EXCAVATION (ROADWAY)
IT NO		STA	SY	SY	LF	LF	SY	CY
49 PAR	RK LANE SHEET (1 OF 1)	4				370		
50 FM	2799 W HOUSTON ST SHEET (1 OF 8)	2		80		23		
51 FM :	2799 W HOUSTON ST SHEET (2 OF 8)	3		93		8		
52 FM	2799 W HOUSTON ST SHEET (3 OF 8)	3	22	58		6		
53 FM	2799 W HOUSTON ST SHEET (4 OF 8)	3	14	49		6		
54 FM	2799 W HOUSTON ST SHEET (5 OF 8)	3	14			24		
55 FM	2799 W HOUSTON ST SHEET (6 OF 8)	3		49		15		
56 FM :	2799 W HOUSTON ST SHEET (7 OF 8)	3		100				
57 FM	2799 W HOUSTON ST SHEET (8 OF 8)	2						
58 S P	PEACHTREE ST SHEET(1 OF 9)	3		181		192		
59 S P	PEACHTREE ST SHEET(2 OF 9)	3				212		
60 S P	PEACHTREE ST SHEET(3 OF 9)	3		46		122		
61 S P	PEACHTREE ST SHEET (4 OF 9)	3		34		8		
62 S P	PEACHTREE ST SHEET (5 OF 9)	3		32		20		
63 S P	PEACHTREE ST SHEET(6 OF 9)	3						
	PEACHTREE ST SHEET(7 OF 9)	3					27	60.0
	PEACHTREE ST SHEET (8 OF 9)	3		32	111	88	595	125.0
	PEACHTREE ST SHEET(9 OF 9)	3	2			36	150	
	/IN ST SHEET (1 OF 4)	3		58				
	/IN ST SHEET (2 OF 4)	3		78		52		
	/IN ST SHEET (3 OF 4)	3		28		202	76	
	/IN ST SHEET (4 OF 4)	3		74		192		
TOT	TALS	65	52	992	111	1576	848	185.0

	ITEM	0132-6001	0160-6003	0162-6002	0168-6001#	0216-6001	0351-6006	0354-6021
	DESCRIPTION	EMBANKMENT (FINAL) (ORD COMP) (TY A)	FURNISHING AND PLACING TOPSOIL (4-)	BLOCK SODDING	VEGETATIVE WATERING	PROOF ROLLING	FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	PLANE ASPH CON PAV (0" TO 2")
SHT NO		CY	SY	SY	SY	HR	SY	SY
49	PARK LANE SHEET (1 OF 1)		165	165	165			
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)		111	111	111			106
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)		166	166	166			
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)		145	145	145		31	
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)		145	145	145		20	
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)		118	118	118			
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)		99	99	99			
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)		156	156	156			
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)		56	56	56			
58	S PEACHTREE ST SHEET(1 OF 9)		109	109	109			
59	S PEACHTREE ST SHEET (2 OF 9)		105	105	105			
	S PEACHTREE ST SHEET (3 OF 9)		159	159	159			
61	S PEACHTREE ST SHEET (4 OF 9)		99	99	99			
62	S PEACHTREE ST SHEET (5 OF 9)		106	106	106			
	S PEACHTREE ST SHEET (6 OF 9)		182	182	182			
64	S PEACHTREE ST SHEET (7 OF 9)	40.0	360	360	360			
65	S PEACHTREE ST SHEET (8 OF 9)	50.0	683	683	683	8.0		
	S PEACHTREE ST SHEET (9 OF 9)		126	126	126			
	CAVIN ST SHEET (1 OF 4)		79	79	79			
68	CAVIN ST SHEET (2 OF 4)		94	94	94			
69	CAVIN ST SHEET (3 OF 4)		105	105	105			
70	CAVIN ST SHEET (4 OF 4)		107	107	107			
	TOTALS	90.0	3475	3475	3475	8.0	51	106

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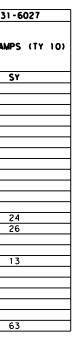
	ITEM	0420-6002	0420-6074	0420-6132	0423-6008	0432-6003	0450-6048	0471-6003
	DESCRIPTION	CL & CONC (MISC)	CL C CONC (MISC)	CL A CONC (STEPS)	RETAINING WALL (CAST - IN - PLACE)	RIPRAP (CONC) (6 IN)	RAIL (HANDRAIL)(TY B)	GRATE & FRAME
SHT NO		CY	CY	CY	SF	CY	LF	EA
49	PARK LANE SHEET (1 OF 1)				24			
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)				254			
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)				462			
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)				462			
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)				232			
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)							
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)			1.0	522			
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)	0.5			651		18	
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)				504			
58	S PEACHTREE ST SHEET(1 OF 9)				579			
	S PEACHTREE ST SHEET (2 OF 9)		2.1		200			9
	S PEACHTREE ST SHEET (3 OF 9)				324			
61	S PEACHTREE ST SHEET (4 OF 9)				402			
	S PEACHTREE ST SHEET (5 OF 9)				33			
	S PEACHTREE ST SHEET (6 OF 9)							
	S PEACHTREE ST SHEET (7 OF 9)		1.3		580		146	3
	S PEACHTREE ST SHEET (8 OF 9)				40	8.0	8	
	S PEACHTREE ST SHEET (9 OF 9)							
	CAVIN ST SHEET (1 OF 4)				374			
	CAVIN ST SHEET (2 OF 4)							
	CAVIN ST SHEET (3 OF 4)							
70	CAVIN ST SHEET (4 OF 4)							
	TOTALS	0.5	3.4	1.0	5643	8.0	172	12

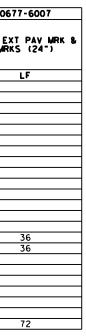
	ITEM	0479-6001	0529-6008	0529-6020	0529-6030	0530-6004	0530-6005	0531-6001
	DESCRIPTION	ADJUSTING MANHOLES	CONC CURB & GUTTER (TY II)	CONC CURB & GUTTER (ARMOR CURB)	CONC CURB & GUTTER (VALLEY GUTTER)	DRIVEWAYS (CONC)	DRIVEWAYS (ACP)	CONC SIDEWALKS (4")
SHT NO		EA	LF	LF	LF	SY	SY	SY
49	PARK LANE SHEET (1 OF 1)		429					288
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)	1	23			80		15
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)		8			93		24
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)		6			58		4
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)		6			49		76
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)		24			46		121
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)		15			74		9
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)					100		32
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)							
58	S PEACHTREE ST SHEET(1 OF 9)		192			181		39
59	S PEACHTREE ST SHEET (2 OF 9)		286	14				119
60	S PEACHTREE ST SHEET(3 OF 9)	1	394			46		97
61	S PEACHTREE ST SHEET (4 OF 9)		215			34		51
62	S PEACHTREE ST SHEET (5 OF 9)		176			34		104
63	S PEACHTREE ST SHEET(6 OF 9)					53		157
64	S PEACHTREE ST SHEET (7 OF 9)					27		68
65	S PEACHTREE ST SHEET (8 OF 9)	1	101		197	94		101
	S PEACHTREE ST SHEET(9 OF 9)		155			93	57	120
67	CAVIN ST SHEET (1 OF 4)		180			58		
68	CAVIN ST SHEET (2 OF 4)		210			78		116
69	CAVIN ST SHEET (3 OF 4)		202			104		124
70	CAVIN ST SHEET (4 OF 4)		192			74		1 30
	TOTALS	3	2814	14	197	1376	57	1795

ESTIMA	TES: FOR CONTRACTOR INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITY PAYMENT TOTALS ON SHEET 14							
REV. NO.	DATE		DESCR	IPTION		BY		
7	CARACTERING FIRM #470 TEXAS SURVEYING FIRM #10028800 TEXAS ENGINEERING FIRM #470 TEXAS SURVEYING FIRM #10028800 TEXAS ENGINEERING FIRM #470 TEXAS SURVEYING FIRM #10028800							
F	©202 ROAD			(OF		S		
	SHEET 2 OF 4							
DGN: CHK	FED. RD. DIV. NO. 6	STATE TEXAS	FEDER	AL AID PROJE	CT NO.	HIGHWAY NO. VARIOUS		
DGN: DWG:	DIST.		CONT. NO.	SECT. NO.	JOB NO.	SHEET NO.		
CHK DWG:	BMT	JASPER	0920	12	047	11		

	ITEM	0531-6018	0531-6019	0531-6020	0531-6022	0531-6023	0531-6024	0531-6
	DESCRIPTION	CURB RAMPS (TY 1)	CURB RAMPS (TY 2)	CURB RAMPS (TY 3)	CURB RAMPS (TY 5)	CURB RAMPS (TY 6)	CURB RAMPS (TY 7)	CURB RAMPS
SHT NO		SY	SY	SY	SY	SY	SY	SY
49	PARK LANE SHEET (1 OF 1)		15	19		_		
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)	17				20		
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)							
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)						12	
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)						10	
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)			38		25		
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)							
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)							
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)							
58	S PEACHTREE ST SHEET(1 OF 9)							
59	S PEACHTREE ST SHEET (2 OF 9)							
60	S PEACHTREE ST SHEET (3 OF 9)		22					
61	S PEACHTREE ST SHEET (4 OF 9)							24
62	S PEACHTREE ST SHEET (5 OF 9)							26
63	S PEACHTREE ST SHEET(6 OF 9)				14			
64	S PEACHTREE ST SHEET (7 OF 9)				16			
65	S PEACHTREE ST SHEET(8 OF 9)						9	13
66	S PEACHTREE ST SHEET (9 OF 9)			21				
67	CAVIN ST SHEET (1 OF 4)		23					
68	CAVIN ST SHEET (2 OF 4)							
69	CAVIN ST SHEET (3 OF 4)							
70	CAVIN ST SHEET (4 OF 4)							
	TOTALS	17	60	78	30	45	31	63

	ITEM	0531-6033	0560-6025	0644-6001	0644-6068	0644-6076	0668-6076	0677-6
	DESCRIPTION	CONC SIDEWALKS (SPECIAL) (TYPE B)	RELOCATE EXISTING MAILBOX	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	RELOCATE SM RD SN SUP&AM TY 10BWG	REMOVE SM RD SN SUP&AM	PREFAB PAV MRK TY C (W) (24 ⁻) (SLD)	ELIMEXTP/ MRKS (3
SHT NO		SY	EA	EA	EA	EA	LF	LF
49	PARK LANE SHEET (1 OF 1)	7		2	2		70	
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)	77					15	
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)	129			1			
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)	127			1			
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)	62			1			
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)				2			
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)	170						
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)	1 3 5						
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)	109						
58	S PEACHTREE ST SHEET(1 OF 9)	101						
	S PEACHTREE ST SHEET(2 OF 9)	56						
60	S PEACHTREE ST SHEET (3 OF 9)	58	1		1			
	S PEACHTREE ST SHEET(4 OF 9)	73	2		1			
62	S PEACHTREE ST SHEET (5 OF 9)	2		1				
63	S PEACHTREE ST SHEET(6 OF 9)			1		1	40	36
64	S PEACHTREE ST SHEET(7 OF 9)	64		1		1	40	36
65	S PEACHTREE ST SHEET(8 OF 9)	5		1			18	
	S PEACHTREE ST SHEET (9 OF 9)		1		1			
	CAVIN ST SHEET (1 OF 4)	81	2	1	1		12	
68	CAVIN ST SHEET (2 OF 4)		3					
69	CAVIN ST SHEET (3 OF 4)		2	1				
70	CAVIN ST SHEET (4 OF 4)			1				
	TOTALS	1256	11	9	11	2	195	72





ESTIMAT	TES: FOR CONTRACTOR INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITY PAYMENT TOTALS ON SHEET 14							
REV. NO.	DATE		DESCR	IPTION		BY		
	PAPE-DAWSON							
	٢ä	ENG	GINE	ERS	5			
		O I AUSTIN						
	2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #10028800							
	₽ Texc	as Dep	artment	of Tr	ansport	tation		
	©202				•			
F	SUMMARY OF ROADWAY QUANTITIES							
	SHEET 3 OF 4							
DGN:	FED. RD. DIV. NO.	STATE	FEDER	AL AID PROJE	CT NO.	HIGHWAY NO.		
CHK DGN:	6	TEXAS				VARIOUS		
DWG:	DIST.	COUNTY	CONT. NO.	SECT. NO.	JOB NO.	SHEET NO.		
CHK DWG:	BMT	JASPER	0920	12	047	12		

	ITEM	0678-6008	0752-6005	0752-6007	3076-6003*	3076-6066*	3076-6072*	7196-6011
	DESCRIPTION	PAV SURF PREP FOR MRK (24-)	TREE REMOVAL (4" - 12" DIA)	TREE REMOVAL (18" - 24" DIA)	D-GR HMA TY-B PG64-22 (Exempt)	TACK COAT	D-GR HMA TY-D PG 76-22 (Exempt)	ADJUST VALVE BOX
SHT NO	1	LF	EA	EA	SY	SY	SY	EA
49	PARK LANE SHEET (1 OF 1)	70						
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)	15				106	106	
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)							
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)					31	31	
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)					20	20	
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)							
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)							
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)							1
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)							1
58	S PEACHTREE ST SHEET(1 OF 9)							
59	S PEACHTREE ST SHEET (2 OF 9)							
60	S PEACHTREE ST SHEET (3 OF 9)							1
61	S PEACHTREE ST SHEET (4 OF 9)							
62	S PEACHTREE ST SHEET (5 OF 9)							
63	S PEACHTREE ST SHEET(6 OF 9)	40						
64	S PEACHTREE ST SHEET (7 OF 9)	40						1
	S PEACHTREE ST SHEET (8 OF 9)	18	4		538	1076	538	
	S PEACHTREE ST SHEET (9 OF 9)							
	CAVIN ST SHEET (1 OF 4)	12		1				
	CAVIN ST SHEET (2 OF 4)							
	CAVIN ST SHEET (3 OF 4)		6					1
	CAVIN ST SHEET (4 OF 4)							
	TOTALS	195	10	1	538	1233	695	5

	ITEM	7196-6068
	DESCRIPTION	ADJUST METER BOX
SHT NO		EA
49	PARK LANE SHEET (1 OF 1)	
50	FM 2799 W HOUSTON ST SHEET (1 OF 8)	1
51	FM 2799 W HOUSTON ST SHEET (2 OF 8)	1
52	FM 2799 W HOUSTON ST SHEET (3 OF 8)	1
53	FM 2799 W HOUSTON ST SHEET (4 OF 8)	
54	FM 2799 W HOUSTON ST SHEET (5 OF 8)	
55	FM 2799 W HOUSTON ST SHEET (6 OF 8)	
56	FM 2799 W HOUSTON ST SHEET (7 OF 8)	
57	FM 2799 W HOUSTON ST SHEET (8 OF 8)	
58	S PEACHTREE ST SHEET(1 OF 9)	
59	S PEACHTREE ST SHEET (2 OF 9)	
60	S PEACHTREE ST SHEET (3 OF 9)	
61	S PEACHTREE ST SHEET (4 OF 9)	
62	S PEACHTREE ST SHEET (5 OF 9)	
63	S PEACHTREE ST SHEET(6 OF 9)	
64	S PEACHTREE ST SHEET(7 OF 9)	
65	S PEACHTREE ST SHEET (8 OF 9)	
66	S PEACHTREE ST SHEET(9 OF 9)	1
67	CAVIN ST SHEET (1 OF 4)	1
68	CAVIN ST SHEET (2 OF 4)	1
69	CAVIN ST SHEET (3 OF 4)	
70	CAVIN ST SHEET (4 OF 4)	3
	TOTALS	9

SUMMARY OF ROADWAY QUANTITIES

SHEET 4 OF 4										
DGN:	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO. HIGHWAY							
CHK DGN:	6	TEXAS				VARIOUS				
DWG:	DIST.	COUNTY	CONT. NO.	SECT. NO.	JOB NO.	SHEET NO.				
CHK DWG:	BMT	JASPER	0920	12	047	13				

INCIDENTAL

	ITEM	0502-6001	0506-6002	0506-6011	0506-6035	0506-6038	0506-6039	0506-6041
	DESCRIPTION	BARRICADES, SIGNS AND TRAFFIC HANDLING	ROCK FILTER DAMS (INSTALL) (TY 2)	ROCK FILTER DAMS (REMOVE)	SANDBAGS FOR EROSION CONTROL	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	BIODEG EROSN CONT LOGS (INSTL) (12")
SHT NO		MO	LF	LF	EA	LF	LF	LF
X	INCIDENTAL QUANTITIES	8	43	43	906	174	174	2000
	TOTALS	8	43	43	906	174	174	2000

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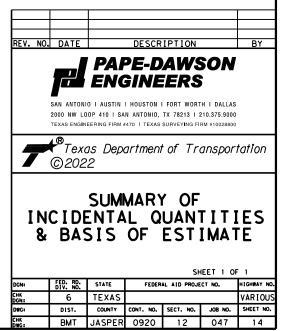
	ITEM	0506-6043	6001-6001	6185-6002
	DESCRIPTION	BIODEG EROSN CONT LOGS (REMOVE)	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)
SHT NO		LF	DAY	DAY
X	INCIDENTAL QUANTITIES	2000	120	120
	TOTALS	2000	120	120

BASIS OF ESTIMATE

					PLAN MEASUF	REMENT	PAY MEAS	UREMENT
ITEM	DESCRIPTION	RATE	UNIT	NO. OF CYC	QUANTITY	UNIT	QUANTITY	UNIT
0168-6001	VEGETATIVE WATERING	6.788	MG/AC/CYC	12	3475	SY	58.5	MG
3076-6003	D-GR HMA TY-B PG64-22 (EXEMPT)	690	LBS/SY	N/A	538	SY	186	TON
3076-6066	TACK COAT	0.1	GAL/SY	N/A	1233	SY	124	GAL
3076-6072	D-GR HMA TY-D PG 76-22 (EXEMPT)	172.5	LBS/SY	N/A	695	SY	60	TON

NOTE:

 INCIDENTAL QUANTITIES ARE NOT SPECIFIC TO ANY PLAN SHEET AND MAY BE LEVERAGED AS DIRECTED BY THE ENGINEER.



			S U M M A R Y	OF SN	ΛA	ll SIG	NS				
					Û) SGN	ASSM TY <u>X</u>	$\frac{XXXX}{\Box} \xrightarrow{(X)}$	<u>XX</u> (X-	- <u>X X X X</u>
					(TYPE				,		
PLAN SHEET NO. 51 51 64 65 65	C L C L	C LON				POST TYPE	POSTS	ANCHOR TYPE	MOUN	TING DESI	GNATION
SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	ALUMINUM	POST TYPE FRP = Fiberglass TWT = Thin-Wall		UA=Universal Conc	PREFABRICATED		
						FRP = Fiberglass	1	UB=Universal Bolt SA=Slipbase-Conc	P = "Plain"	BM = Ex1	truded W 12 #/ft
							I or 2	SB=Slipbase-Bolt	T = "T"		annel
					FLAT	S80 = Sch 80		WS=Wedge Steel WP=Wedge Plastic	∪ = "∪"	EXAL= Ext	truded A nels
		S1-1 —		36X36	+ $+$					+	
51	1		() 		1	10 BWG	1	SA	Р		
		SW16-7P		24×12							
		S1-1 —		36×36							
51	2				√	10 BWG	1	SA	Р		
		SW16-7P		24×12						+	
										+	
		W11-15 -		36X36							
64	1				 ✓ 	10 BWG	1	SA	Р	<u> </u>	
		W11-15P —	TRAIL X-ING	24×18						<u> </u>	
		W16-9P	AHEAD	24x12						+	
		W11-15 -		36X36						<u> </u>	
65	1		<u> </u>		1	10 BWG	1	SA	Р		
		W11-15P —	TRAIL X-ING	24×18							
		W16-7P	` ``	24x12							
		W11-15 —		36×36							
66	1				√	10 BWG	1	SA	Р		
		W11-15P —	TRAIL	24×18							
		W16-7P		24x12							
		W11-15 —		36×36						<u> </u>	
67	1				√	10 BWG	1	SA	Р		
		W11-15P —	TRAIL X-ING	24×18						<u> </u>	
		W16-9P	AHEAD	24x12	+					+	
			N0							<u> </u>	
69	1	R8-3aTR	Parking	24×30	√	10 BWG	1	SA	Р	+	
					+ $+$						
			N0								
71	1	R8-3aTR	Parking	24×30	1	10 BWG	1	SA	Р		
			N0								
72	1	R8-3aTL	Parking	24×30	√	10 BWG	1	SA	Р	+	
										<u> </u>	
					+					+	
										<u> </u>	
										+	

<u>(X</u>) on	BRIDGE MOUNT CLEARANCE SIGNS		
= # of Ext d Wind Beam ft Wing	(See Note 2) TY = TYPE		
d Alum Sign	TY N TY S		
			ALUMINU
			Squar
			Less †
			7.5 +
			Greater
			The St
			for Te the fo
			ine io
		NC)TE:
		1.	on the p may shif
			design g secure a avoid co otherwise
			Contract will ver
		2.	For insta signs, s Assembly
		3.	Sign Mou
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			•
		FILE:	sums16.dg
		(C) TxD 4-16	OT May 1987 REVISIONS
		4-16 8-16	

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

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

- Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
- 2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
- For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

SHEET 1 OF 1

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS								
LE:	sums16.dgn	DN: Tx	DOT	ск: TxDOT	DW:	TxDOT		ск: TxDOT
) TxDOT	May 1987	CONT	SECT	JOB			HIGH	YAW
	REVISIONS	0920	12	047		٧٧	AR I	IOUS
I-16 3-16		DIST		COUNTY			Sł	HEET NO.
		BMT		JASPE	R			15

TCP PHASE	SPECIFIC TCP PLAN SHEET OR TCP STANDARD SHEET	FURNISH TMA/TA	RELOCATE/REUSE	PER SET UP	TMA/TA SET UP	6185 6002 TMA (STATIONARY)	6185 6005 TMA (MOBILE OPERATION)
	SHEET NUMBER	ΕA	EA	EA	DAYS PER TMA/TA USE	DAY	DAY
ALL	TCP(1-1)-18, TCP(1-4)-18, TCP(2-2)-18	1		1	120	120	
	L TOTAL S	1				120	
	TOTALS	1				120	

NOTE. FURNISH TMA/TA - THE NUMBER OF ATTENUATORS BEING FURNISHED FOR THE SPECIFIC TCP. RELOCATE/REUSE TMA/TA - THE NUMBER OF ATTENUATORS BEING REUSED FROM A PREVIOUS TCP FOR THE SPECIFIC TCP. TOTAL TMA/TA PER SET UP = (FURNISH TMA/TA) + (RELOCATE/REUSE TMA/TA) DURATION OF TMA/TA SET UP - THE NUMBER OF DAYS THE ATTENTUATORS WILL BE USED FOR THE SPECIFIC TCP. TMA/TA (STATIONARY) = (TOTAL TMA/TA PER SET UP) X (THE DURATION OF TMA/TA SET UP) TMA/TA (MOBILE OPERATION) = (TOTAL TMA/TA PER SET UP) X (THE DURATION OF TMA/TA SET UP)

TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA) SUMMARY SHEET

FILE: tma.dgn	DN:T×DOT CK:		CK:		CK:
© T×DOT	CONT	SECT		JOB	HIGHWAY
REVISIONS	0920	1	2	047	VARIOUS
3/2018	DIST	DIST (COUNTY	
	BMT Federal aid		JASPER		
					SHEET NO.
					16

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the 9. BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES. CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
- 2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

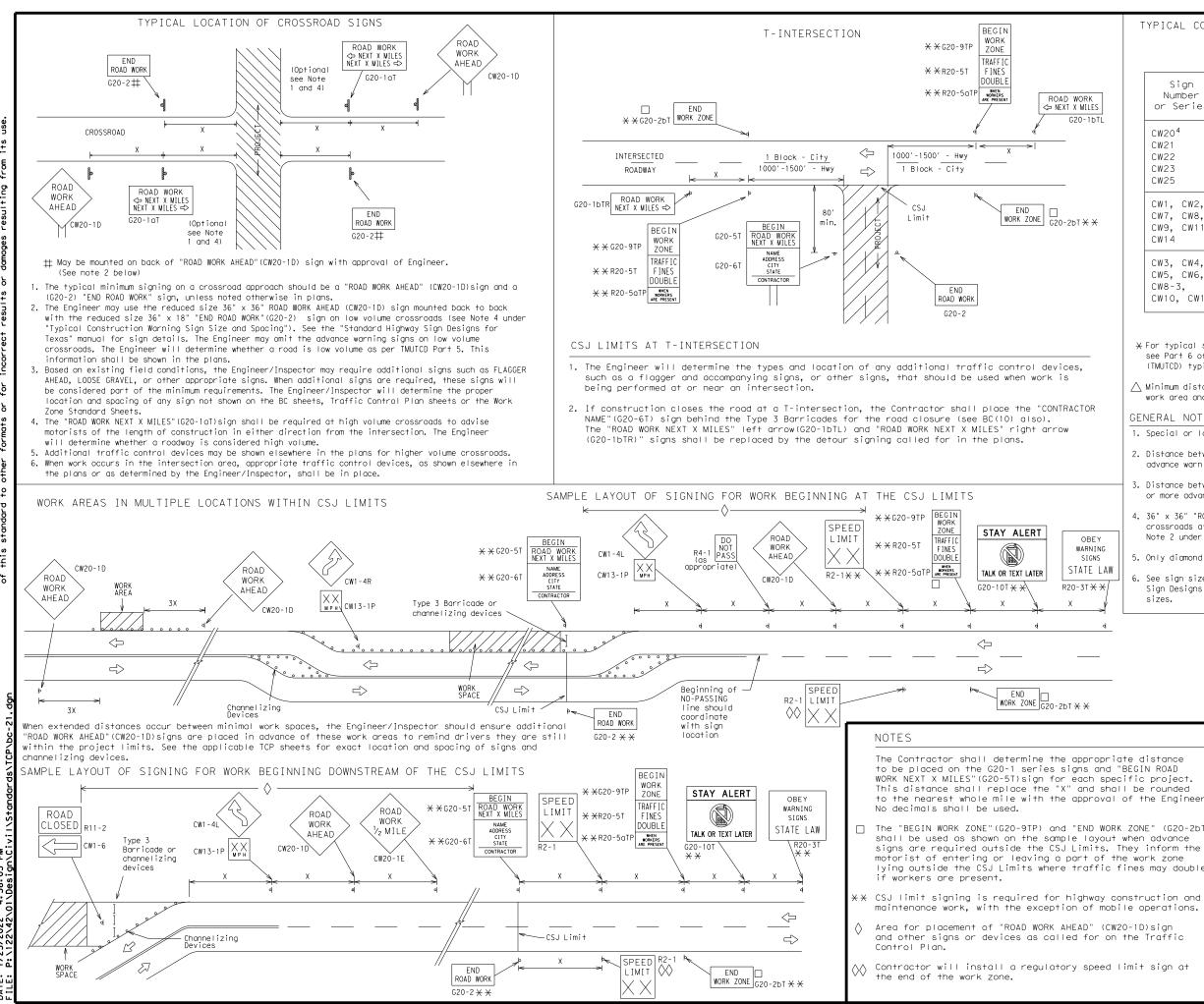
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-aualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT
http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

SHE	ET 1 OF	- 12				
Texas Departmen	nt of Trans	oortation	Traffic Safety Division Standard			
AND R		NOTES Ement				
FILE: bc-21.dgn	DN: TXDOT	CK: TXDOT DW:	TxDOT CK: TXDOT			
CTxDOT November 2002	CONT SECT	JOB	HIGHWAY			
4-03 7-13	0920 12	047	VARIOUS			
9-07 8-21	DIST	COUNTY	SHEET NO.			
5-10 5-21	BMT	BMT JASPER 17				

CUEET 1 05 10



Μ 4:38:05 01\Design TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING 1.5.6

SIZE

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ΣP	Δ	1		NG	

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20 ⁴ CW21 CW22 CW23 CW25	48" × 48"	48" × 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" × 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" × 48"

Posted Speed	Sign∆ Spacing "X"
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500 ²
60	600 ²
65	700 2
70	800 ²
75	900 ²
80	1000 ²
*	* 3

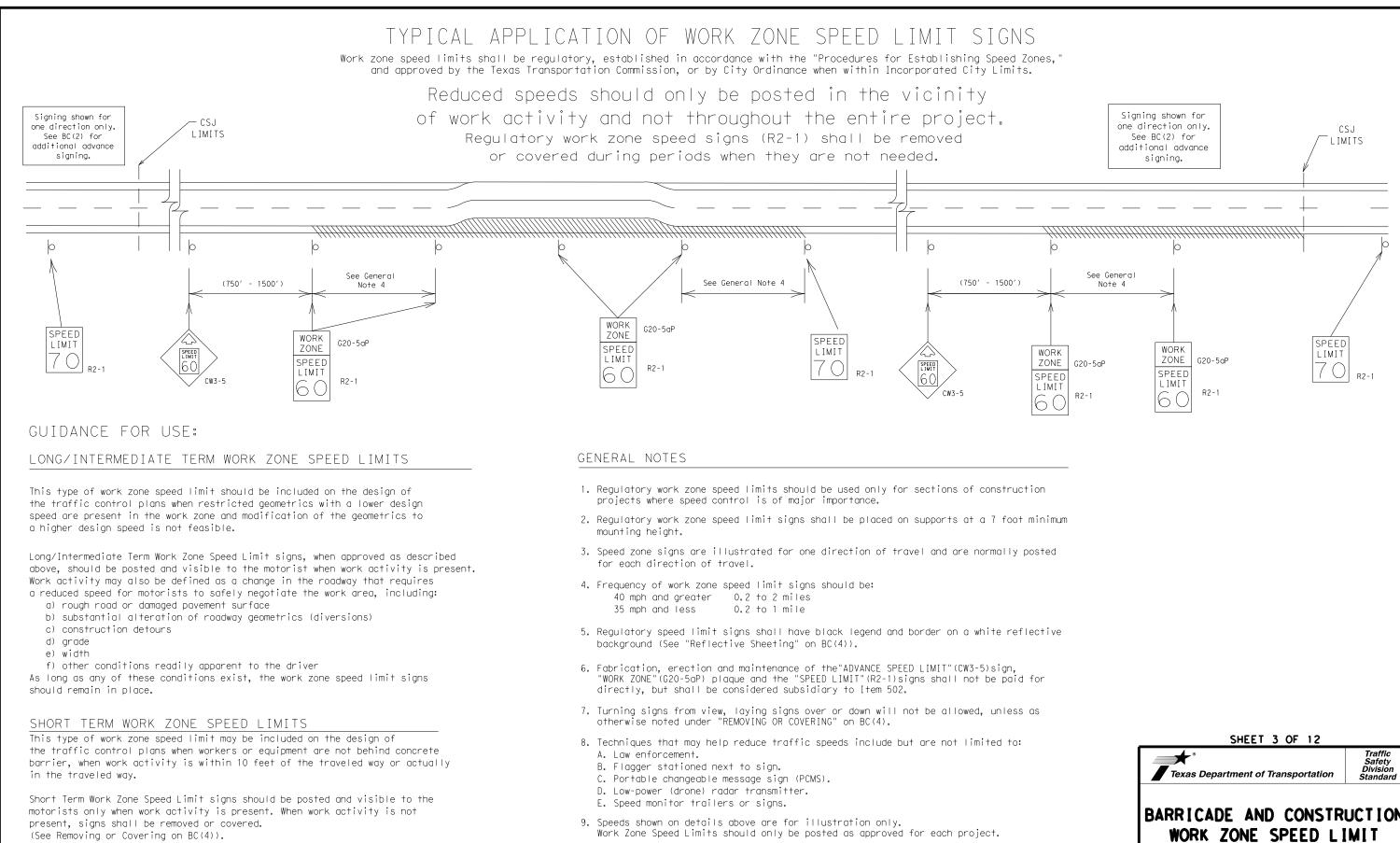
X For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

 \triangle Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

- 1. Special or larger size signs may be used as necessary.
- 2. Distance between signs should be increased as required to have 1500 feet advance warning.
- 3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
- 5. Only diamond shaped warning sign sizes are indicated.
- 6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

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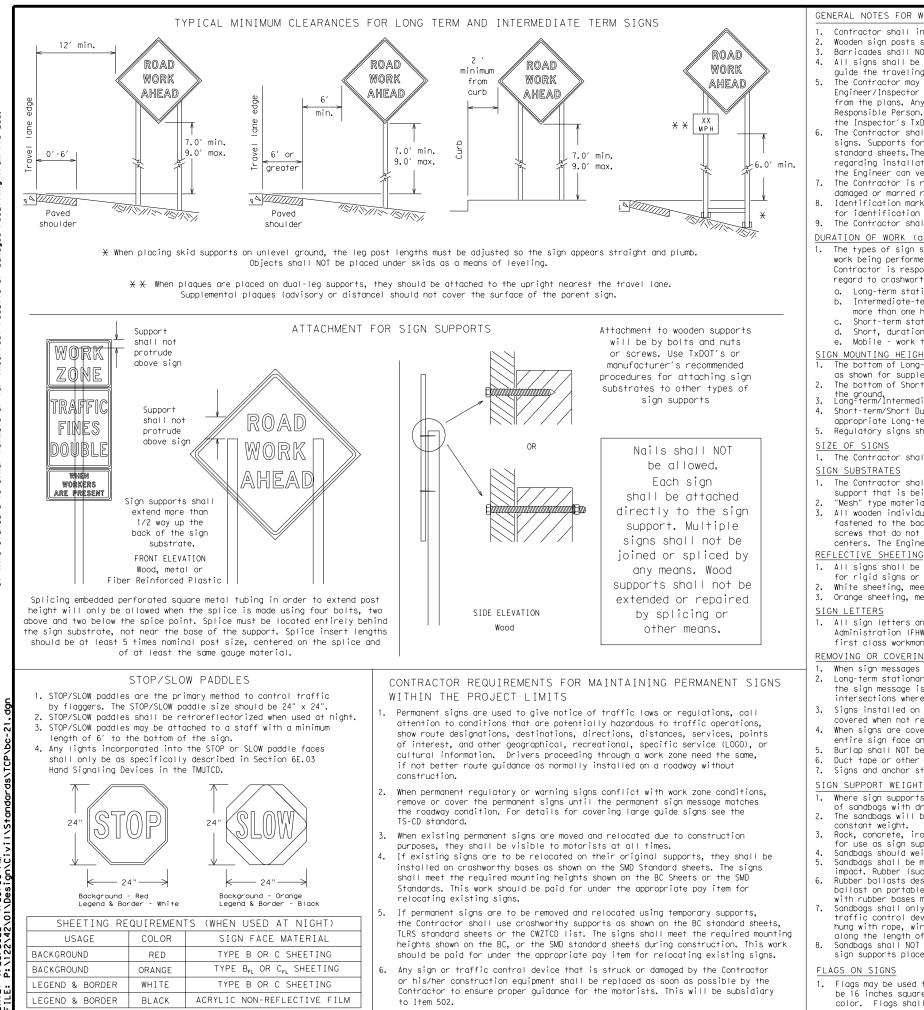
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10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

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GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports
- guide the traveling public safely through the work zone.
- the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. the Engineer can verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.
- 9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.
- DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6) regard to crashworthiness and duration of work requirements.
 - a. Long-term stationary work that occupies a location more than 3 days.
- more than one hour. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour. e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- as shown for supplemental plaques mounted below other signs.
- the ground. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- 4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
 - appropriate Long-term/Intermediate sign height.

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
- centers. The Engineer may approve other methods of splicing the sign face.
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
- 2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
- first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- 1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- intersections where the sign may be seen from approaching traffic. 3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely
- covered when not required.
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- Burlap shall NOT be used to cover signs. Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

- 1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used. The sandbags will be tied shut to keep the sand from spilling and to maintain a
- constant weight. Rock, concrete, iron, steel or other solid objects shall not be permitted
- for use as sign support weights. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
- Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CW7TCD list. Sandbags shall only be placed along or laid over the base supports of the
- traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.
- 1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

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All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and

5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in

The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question reaarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used

The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in

Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting

The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except

2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above

Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports. 3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6"

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of

2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any

4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

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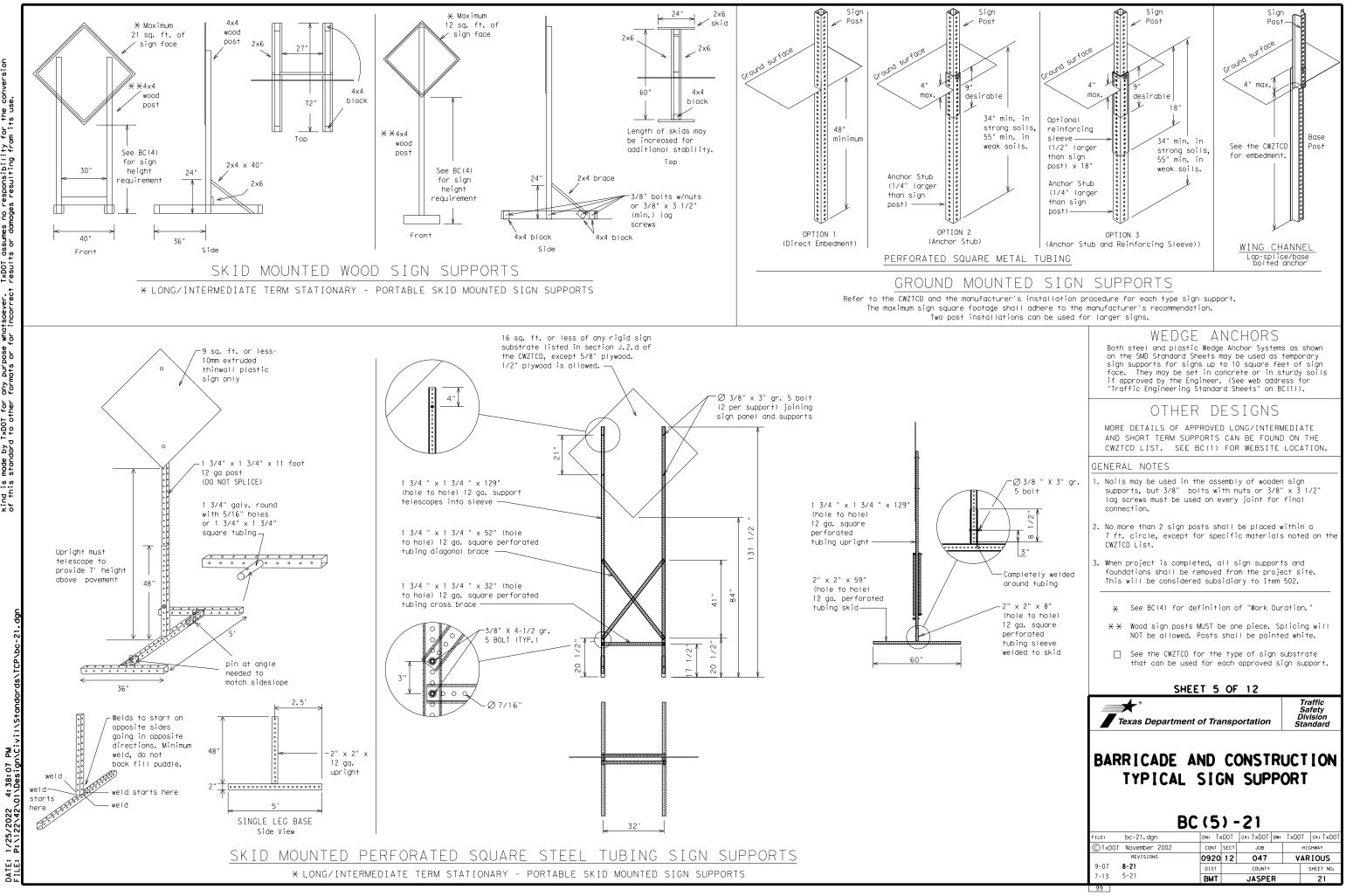
Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

SHEET 4 OF 12

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WHEN NOT IN USE. REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- 2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO, "FOR." "AT." etc.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- 5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
- 6. When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to 7. start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- The Engineer/Inspector may select one of two options which are avail-8. able for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message 9. should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line. 11. Do not use the word "Danger" in message.
- 12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sian.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15 PCMS character beight should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

		T	
WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Northbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT
East	E	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
	EMER	Slippery	SLIP
Emergency	EMER VEH	South	S
Emergency Vehicle		Southbound	(route) S
Entrance, Enter	ENT EXP LN	Speed	SPD
Express Lane		Street	ST
Expressway	EXPWY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hazardous Driving		Travelers	TRVLRS
Hazardous Material		Tuesday	TUES
High-Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	HWY	Upper Level	UPR LEVEL
Highway		Vehicles (s)	VEH, VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WED
It Is	ITS	Weight Limit	WT LIMIT
Junction	JCT	West	W
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		1.0
Maintenance	MAINT		

designation # IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES (The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

		UTHER CON	
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT ¥
XXXXXXXX BLVD CLOSED	$ ilde{H}$ LANES SHIFT in Phase	e 1 must be used wit	n STAY IN LANE in Pha

Other Co	ndit	ion List
ROADWORK XXX FT		ROAD REPAIRS XXXX FT
FLAGGER XXXX FT		LANE NARROWS XXXX FT
RIGHT LN NARROWS XXXX FT		TWO-WAY TRAFFIC XX MILE
MERGING TRAFFIC XXXX FT		CONST TRAFFIC XXX FT
LOOSE GRAVEL XXXX FT		UNEVEN LANES XXXX FT
DETOUR X MILE		ROUGH ROAD XXXX FT
ROADWORK PAST SH XXXX		ROADWORK NEXT FRI-SUN
BUMP XXXX FT		US XXX EXIT X MILES
TRAFFIC SIGNAL XXXX FT		LANES Shift

Action to Take/Effect on Travel List MERGE FORM RIGHT X LINES RIGHT DETOUR USE XXXXX NEXT RD EXIT X EXITS USE USE EXIT EXIT XXX I-XX NORTH STAY ON USE US XXX I-XX F SOUTH TO I-XX N WATCH TRUCKS USE FOR US XXX N TRUCKS WATCH EXPECT FOR DELAYS TRUCKS PREPARE EXPECT DELAYS ΤO STOP REDUCE END SPEED SHOULDER XXX FT USE WATCH USE OTHER FOR ROUTES WORKERS STAY ΤN LANE

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCMS.

- 2. The 1st phase (or both) should be selected from the
- "Road/Lane/Ramp Closure List" and the "Other Condition List". 3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice
- Phase Lists". 4. A Location Phase is necessary only if a distance or location
- is not included in the first phase selected. 5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- 6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- appropriate.
- 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and MI. MILE and MILES interchanged as appropriate.
- 8. AT. BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a
- location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

- 1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 und CHANGEABLE MESSAGE SIGNS" above.
- 2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the shall maintain the legibility/visibility requirement listed above.
- 3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and for, or replace that sign.
- 4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC same size arrow.

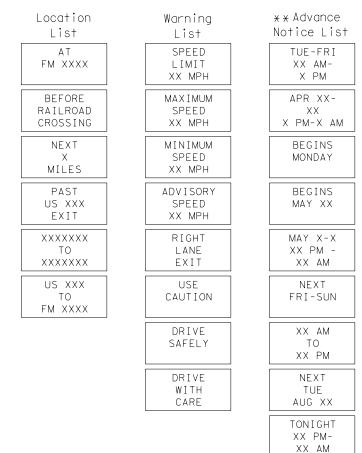
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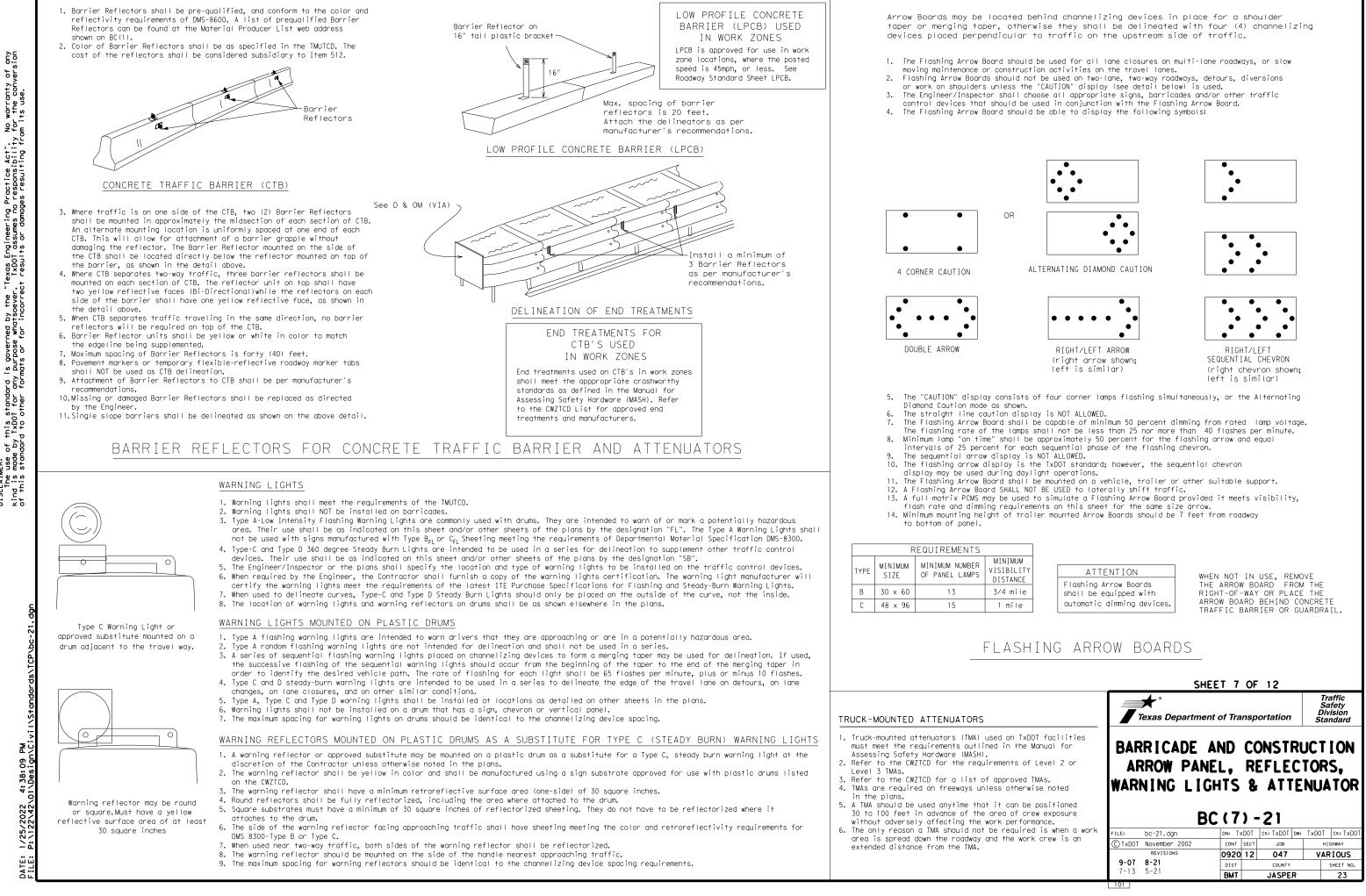
Phase 2: Possible Component Lists



X X See Application Guidelines Note 6.

2. Roadway designations IH, US, SH, FM and LP can be interchanged as

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GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- 4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

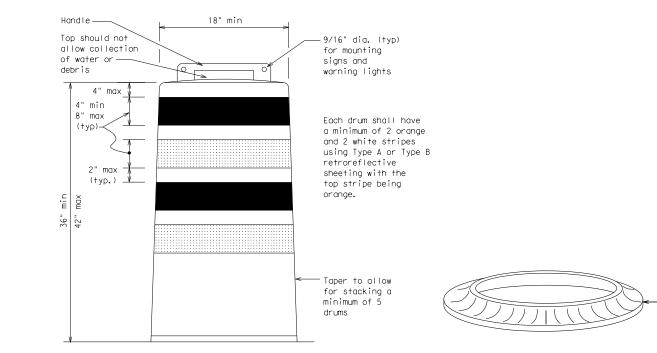
- Pre-qualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
- 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10. Drum and base shall be marked with manufacturer's name and model number.

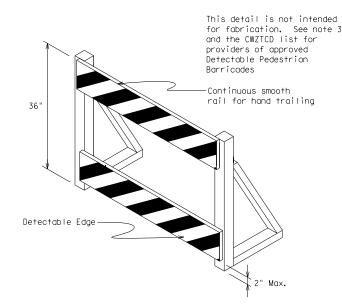
RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

- Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- 3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.

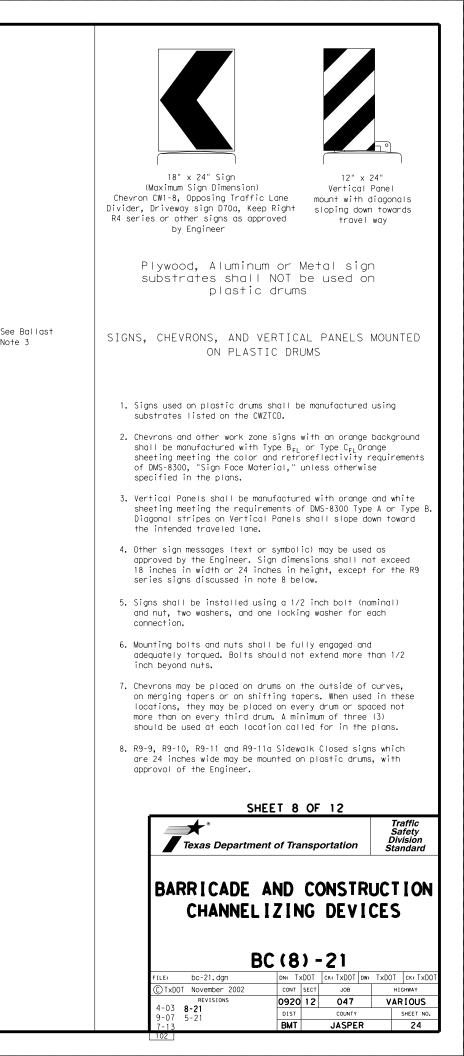


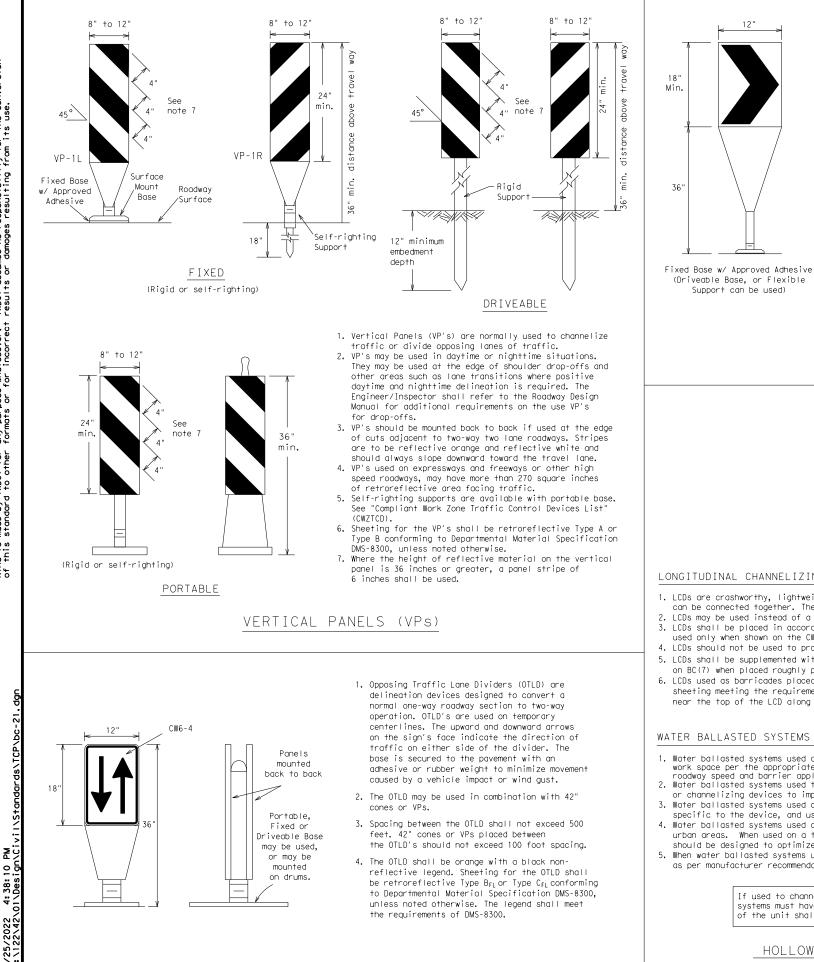


DETECTABLE PEDESTRIAN BARRICADES

- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- 4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- Warning lights shall not be attached to detectable pedestrian barricades.
- Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.

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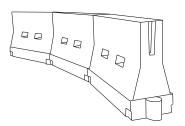




OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

- 1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the out side of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5. Chevrons shall be orange with a black nonreflective leaend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- 6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- 1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact. 2. LCDs may be used instead of a line of cones or drums.
- 3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- 5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
- 6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- 1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but als work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requireme roadway speed and barrier application.
- 2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflec
- or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with 3. Water ballasted systems used as barriers shall be placed in accordance to application and installat
- specific to the device, and used only when shown on the CWZTCD list. 4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the
- should be designed to optimize road user operations considering the available geometric conditions. 5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be at as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballaste systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

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GENERAL NOTES

- 1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- 3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- 5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- 6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.

Posted Speed	Minimum Suggested Maxim Desirable Spacing of Taper Lengths Channelizing X X Devices			ng of Lizing		
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	2	150′	165′	180′	30′	60′
35	$L = \frac{WS^2}{60}$	205′	225′	245′	35′	70′
40	60	265′	295′	320′	40′	80′
45		450′	495′	540′	45′	90′
50		500′	550′	600′	50′	100′
55	L=WS	550′	605′	660′	55′	110′
60	L 113	600′	660′	720′	60′	120′
65		650′	715′	780′	65′	130′
70		700′	770′	840′	70′	140′
75		750′	825′	900′	75′	150′
80		800′	880′	960′	80′	160′

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(less than 45 MPH) taper length	Texas
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 $X \times$ Taper lengths have been rounded off. L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

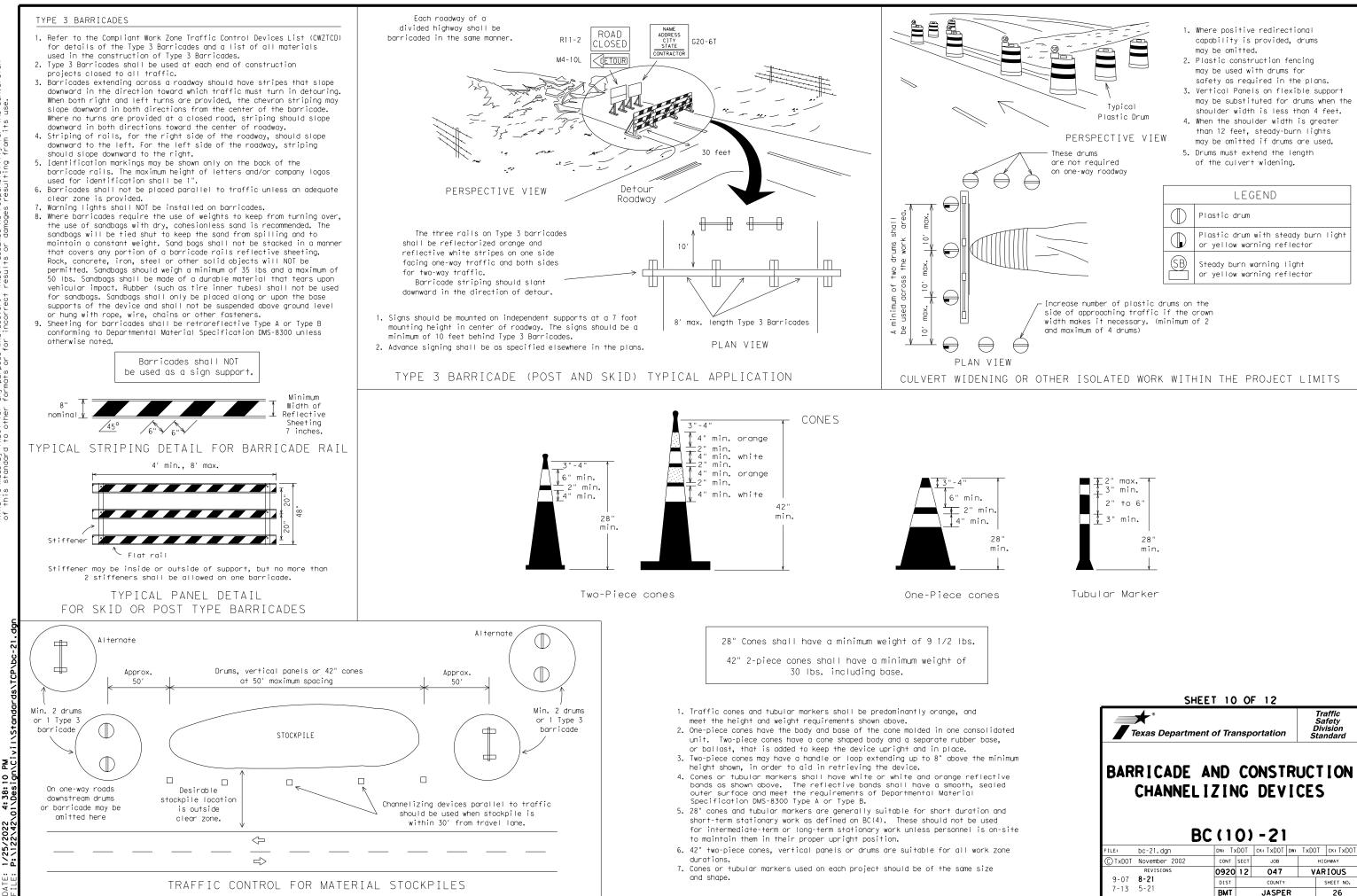
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WORK ZONE PAVEMENT MARKINGS

Temporary Flexible-Reflective Roadway Marker Tabs

GENERAL

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ (STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- Raised pavement markers are to be placed according to the patterns on BC(12).
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- 1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
- 2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

- Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- 6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

TOP VIEW FRONT VIEW SID $4"\pm 1/4"$ Adher Height of sheeting is usually more than 1/4" and less than 1".

STAPLES OR NAILS SHALL NOT BE USED TO SECU TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARK TABS TO THE PAVEMENT SURFACE

- Temporary flexible-reflective roadway marker tabs used as guiden shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by Engineer or designated representative. Sampling and testing is n normally required, however at the option of the Engineer, either or "B" below may be imposed to assure quality before placement of roadway.
 - A. Select five (5) or more tabs at random from each lot or st and submit to the Construction Division, Materials and Par Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix (5) tabs at 24 inch intervals on an asphaltic pavement in straight line. Using a medium size passenger vehicle or pirun over the markers with the front and rear tires at a sp of 35 to 40 miles per hour, four (4) times in each directimore than one (1) out of the five (5) reflective surfaces be lost or displaced as a result of this test.
- 3. Small design variances may be noted between tab manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new pavements. Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARK

- Raised pavement markers used as guidemarks shall be from the ap product list, and meet the requirements of DMS-4200.
- 2. All temporary construction raised pavement markers provided on project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applie butyl rubber pad for all surfaces, or thermoplastic for concret surfaces.

Guidemarks shall be designated as:

YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

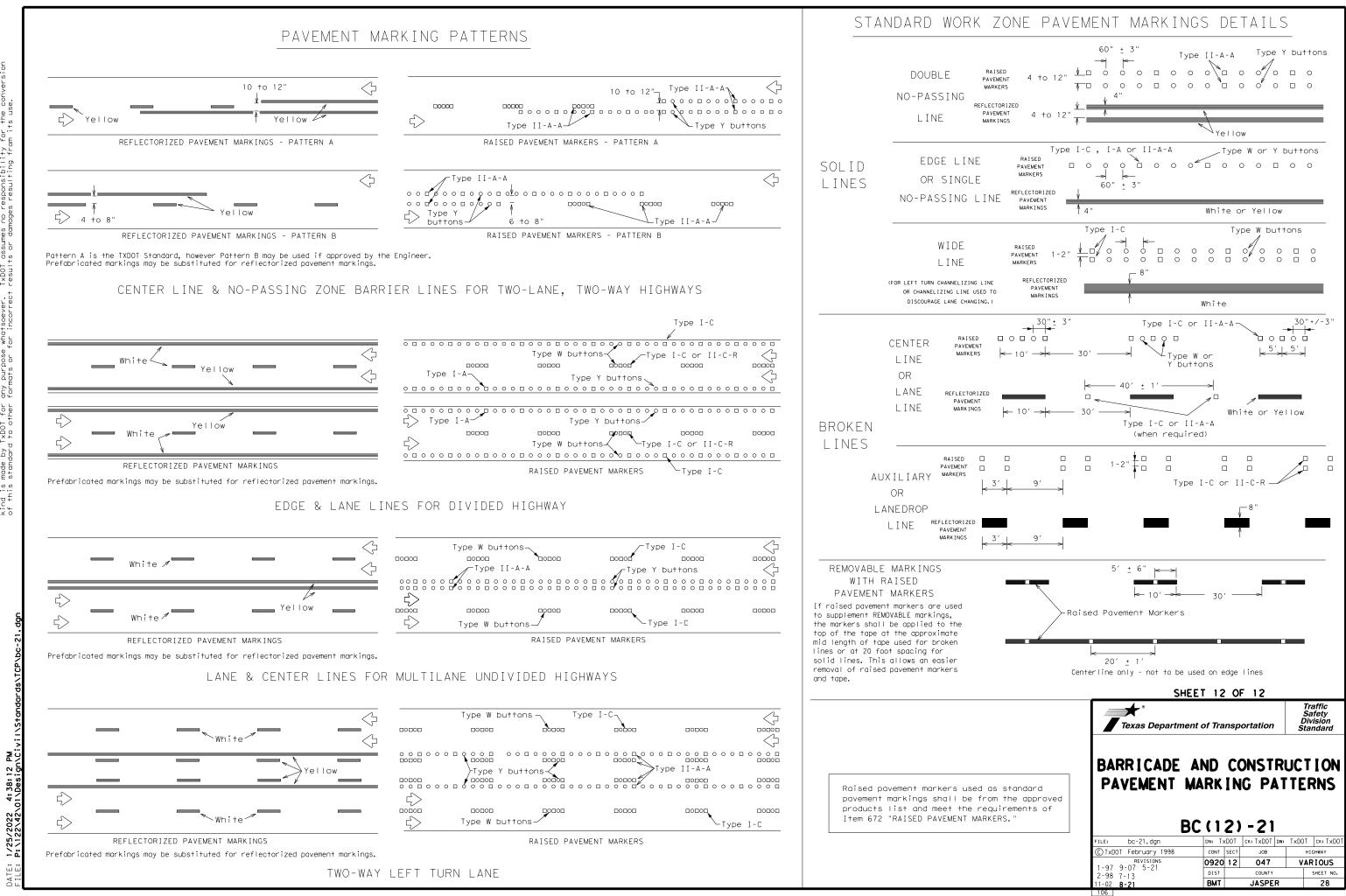
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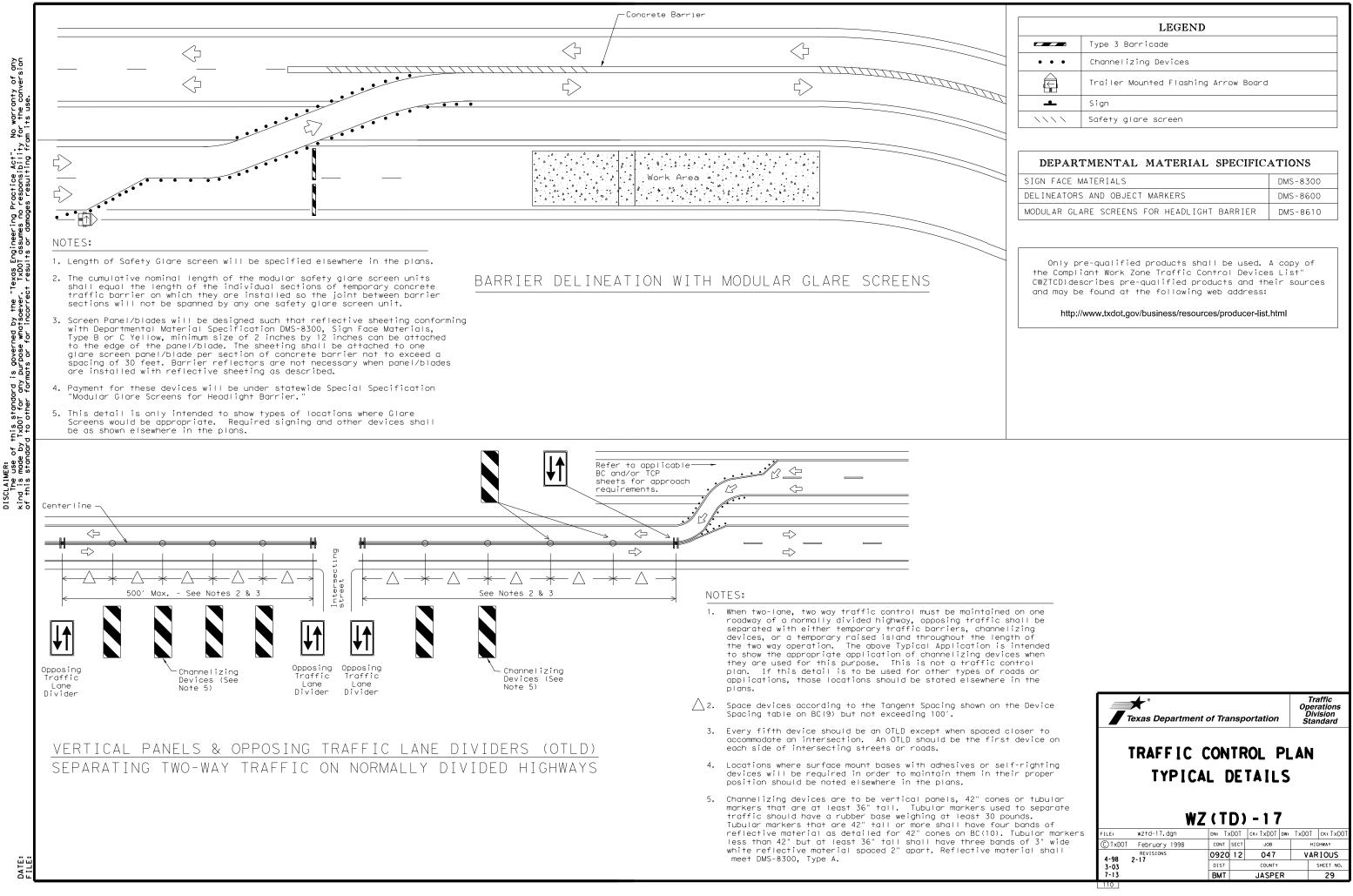
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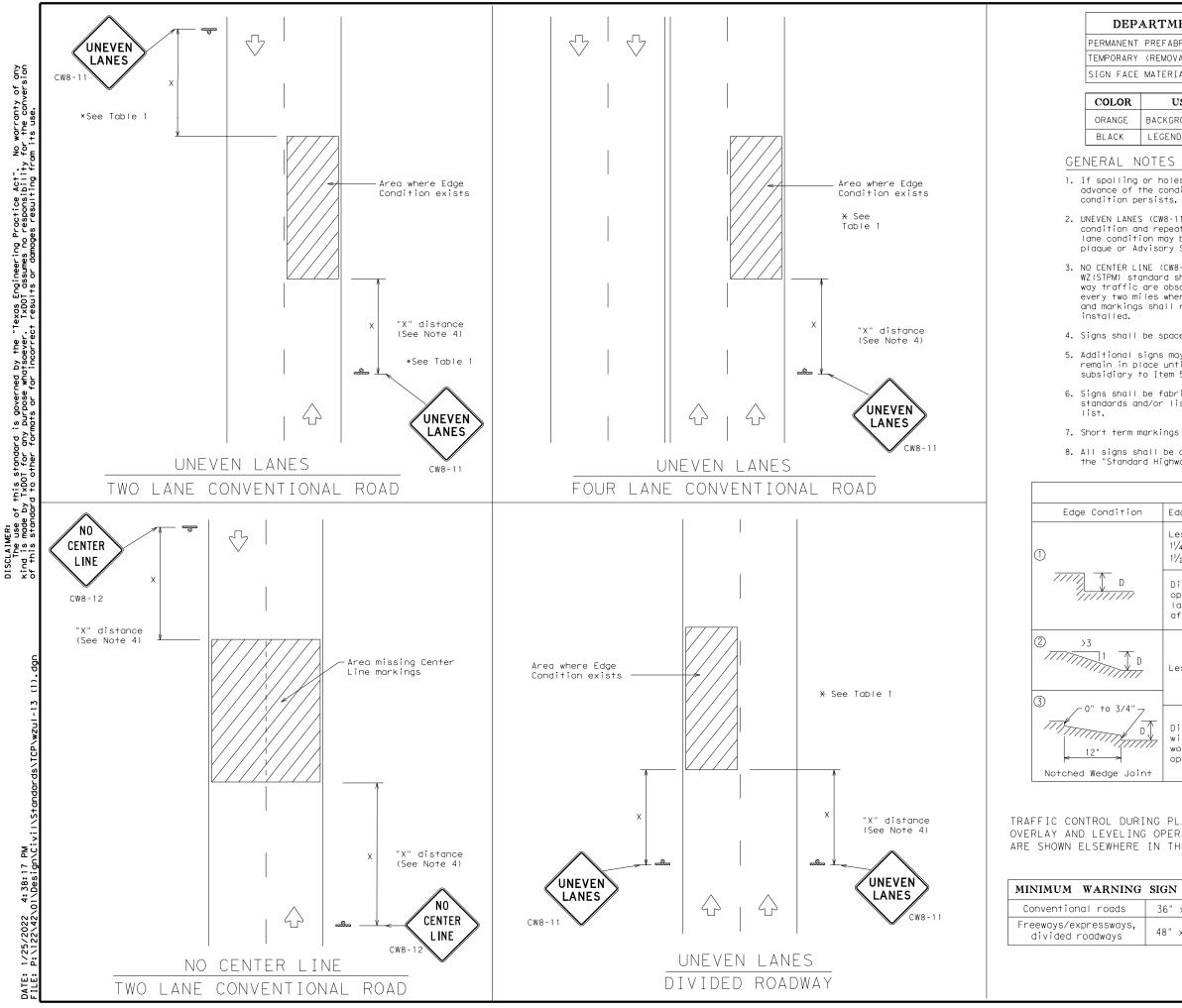


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	Type 3 Barricade	
• • •	Channelizing Devices	
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$\land \land \land \land$	Safety glare screen	
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DEPARTMENTAL MATERIAL SPECIFICATIONS

DMS-8240

DMS-8300

PERMANENT PREFABRICATED PAVEMENT MARKINGS TEMPORARY (REMOVABLE) PREFABRICATED PAVEMENT MARKINGS DMS-8241

SIGN FACE MATERIALS

ł	USAGE	SHEETING MATERIAL
	BACKGROUND	TYPE B _{FL} OR TYPE C _{FL} SHEETING
	LEGEND & BORDERS	ACRYLIC NON-REFLECTIVE SHEETING

1. If spalling or holes occur, ROUGH ROAD (CW8-8) signs should be placed in advance of the condition and be repeated every two miles where the

 UNEVEN LANES (CW8-11) signs shall be installed in advance of the condition and repeated every mile. Signs installed along the uneven lane condition may be supplemented with the NEXT XX MILES (CW7-3aP) plaque or Advisory Speed (CW13-1P) plaque.

3. NO CENTER LINE (CW8-12) signs and temporary pavement markings as per the WZ(STPM) standard shall be installed if yellow centerlines separating two way traffic are obscured or obliterated. Repeat NO CENTER LINE signs every two miles where the center line markings are not in place. The signs and markings shall remain in place until permanent pavement markings are

4. Signs shall be spaced at the distances recommended as per BC standards.

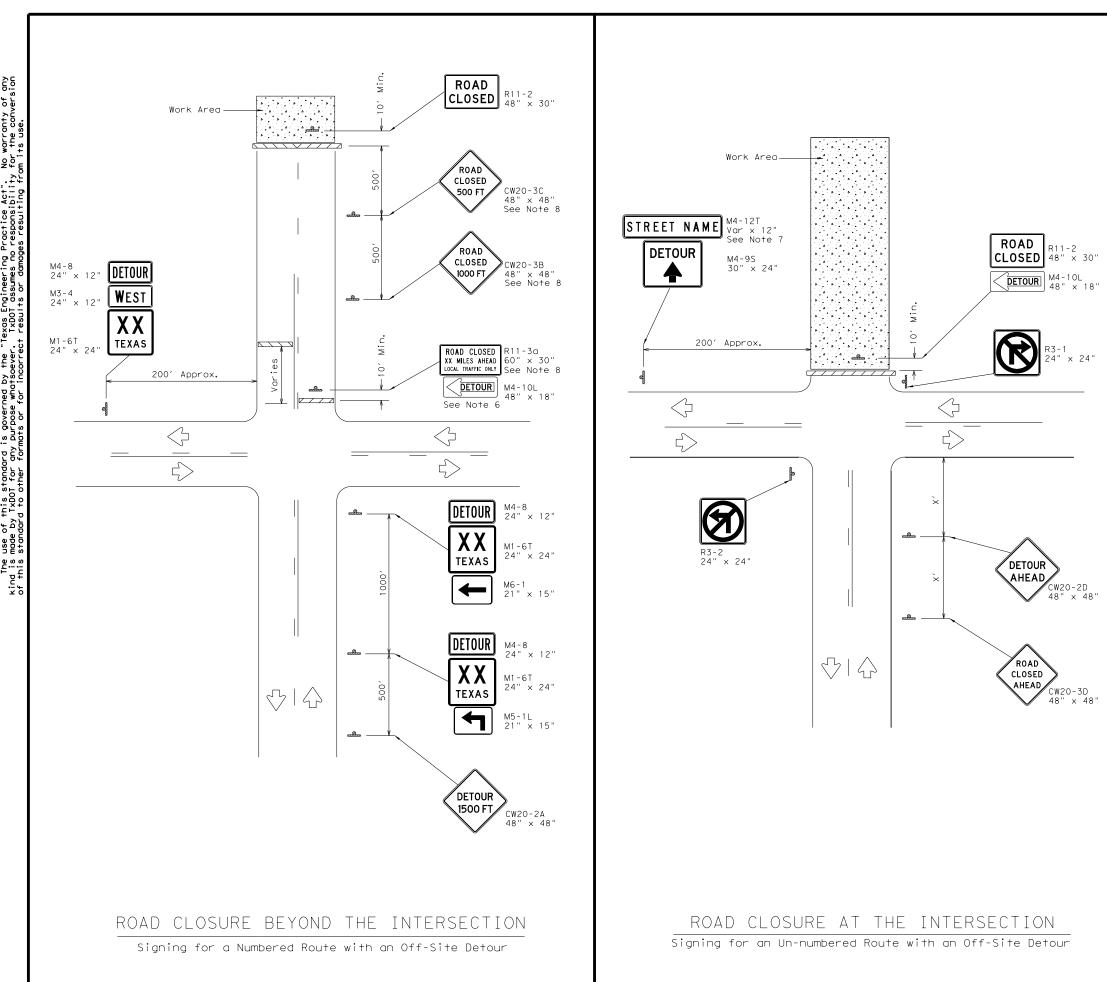
5. Additional signs may be required as directed by the Engineer. Signs shall remain in place until final surface is applied. Signs shall be considered subsidiary to Item 502 "BARRICADES, SIGNS AND TRAFFIC HANDLING."

6. Signs shall be fabricated and mounted on supports as shown on the BC standards and/or listed on the "Compliant Work Zone Traffic Control Devices"

7. Short term markings shall not be used to simulate edge lines.

8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition.

Edge Heig Less than 1¼" (max 1½" (typ Distance operation	ht (D) or e	qual to: planing)	* Warnir Sia	ng Device:	6		
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	ns and h edg	2" for ove e condition	y be a maximum of 1 1/4 " for planing 2" for overlay operations if uneven condition 1 are open to traffic ations cease.				
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	LEGEND
~~~~~	Type 3 Barricade
•	Sign

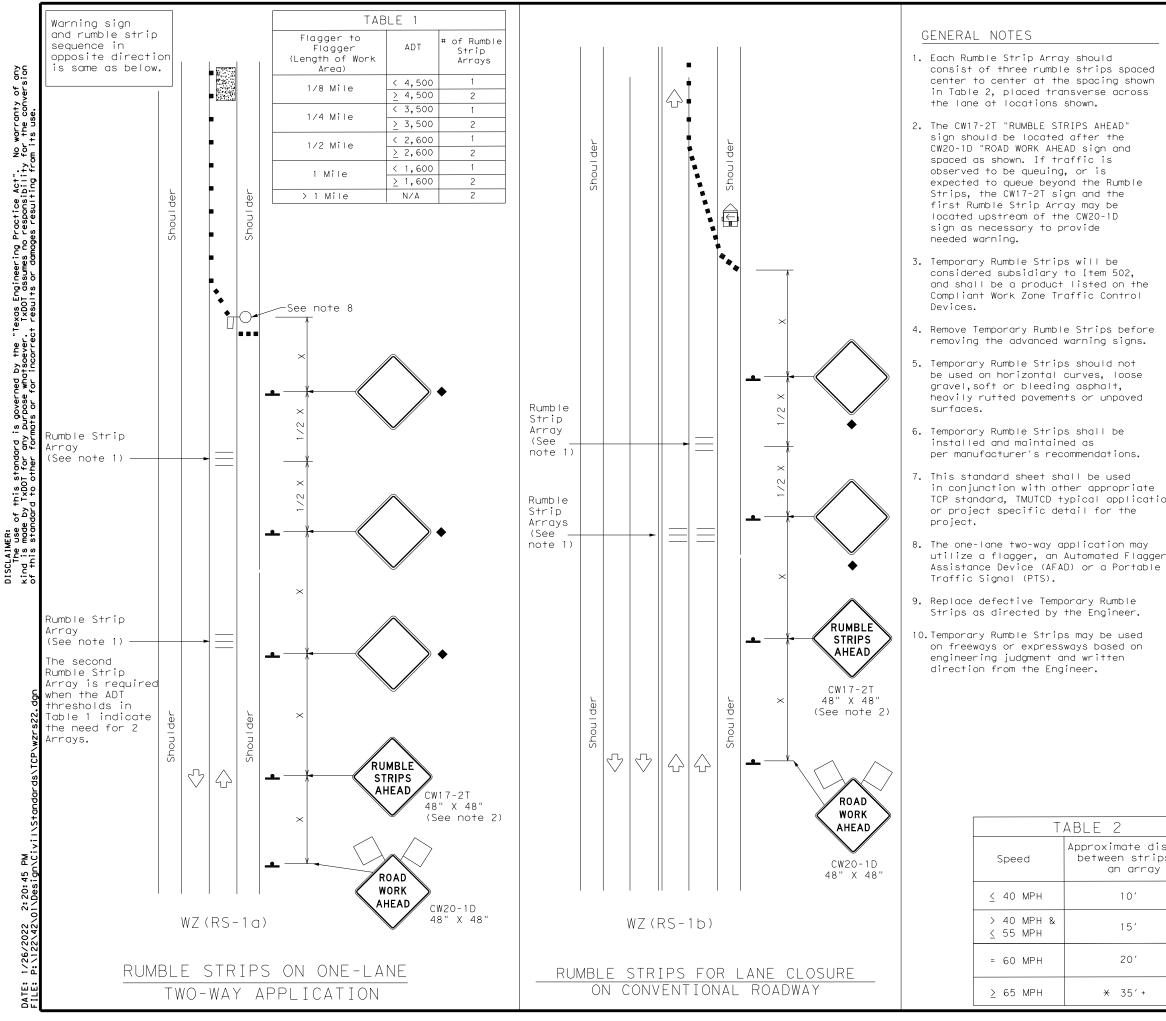
Posted Speed <del>X</del>	Minimum Sign Spacing "X" Distance
30	120′
35	160′
40	240′
45	320′
50	400′
55	500′
60	600′
65	700′
70	800′
75	900′

* Conventional Roads Only

## GENERAL NOTES

- 1. This sheet is intended to provide details for temporary work zone road closures. For permanent road closure details see the D&OM standards.
- 2. Barricades used shall meet the requirements shown on Barricade and Construction Standard BC(10) and listed on the Compliant Work Zone Traffic Control Devices list (CWZTCD).
- 3. Stockpiled materials shall not be placed on the traffic side of barricades.
- 4. Barricades at the road closure should extend from pavement edge to pavement edge.
- 5. Detour signing shown is intended to illustrate the type of signing that is appropriate for numbered routes or un-numbered routes as labeled. It does not indicate the full extent of detour signing required. Detour routes should be signed as shown elsewhere in the plans.
- 6. If the road is open for a significant distance beyond the intersection or there are significant origin/destination points beyond the intersection, the signs and barricades at this location should be located at the edge of the traveled way.
- 7. The Street Name (M4-12T) sign is to be placed above the DETOUR (M4-9S) sign.
- 8. For urban areas where there is a shorter distance between the intersection and the actual closure location, the ROAD CLOSED XX MILES AHEAD (R11-3a) sign may be replaced with a ROAD CLOSED TO THRU TRAFFIC (R11-4) sign. If adequate space does not exist between the intersection and the closure a single ROAD CLOSED AHEAD (CW20-3D) sign spaced as per the table above may replace the ROAD CLOSED 1000 FT (CW20-3B) and ROAD CLOSED 500 FT (CW20-3C) signs.
- 9. Signs and barricades shown shall be subsidiary to Item 502. Locations where these details will be required shall be as shown elsewhere in the plans.

Texas Departme	nt of Trans _i	portation		Dpei Div	affic rations vision ndard				
WORK ZONE ROAD CLOSURE DETAILS WZ (RCD) - 13									
l W									
		-	-	ΠΩΤ					
FILE: wzrcd-13.dgn	DN: TxDOT	ск: TxDOT	-	DOT	CK: TXDOT				
	DN: TXDOT CONT SEC	ск: TxDOT JOB	-	HI	GHWAY				
FILE: wzrcd-13.dgn ©TxDOT August 1995	DN: TxDOT	ск: TxDOT JOB	-	HI VAF					



ed	
wn	
S	

	LEGEND							
	Type 3 Barricade		Channelizing Devices					
□¤	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign (PCMS)					
•	Sign	$\sim$	Traffic Flow					
$\bigtriangleup$	Flag	LO	Flagger					

e			
-	~		

Posted Speed	Formula	D	Minimur esirab er Leno XX	le	Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	, ws²	150′	165′	180′	30′	60′	120′	90′
35	$L = \frac{WS}{60}$	205′	225′	245′	35′	70′	160′	120′
40		265′	295′	320′	40 <i>1</i>	80′	240′	1551
45		450′	495′	540′	45′	90′	320′	195′
50		500′	550′	600′	50′	100′	400′	240′
55	L=WS	550′	605′	660′	55′	110′	500′	295′
60	L 115	600′	660′	720′	60′	120′	600′	350′
65		650′	715′	780′	65´	130′	700′	410′
70		700′	770′	840′	70′	140′	800′	475′
75		750′	825′	900′	75′	150′	900′	540′

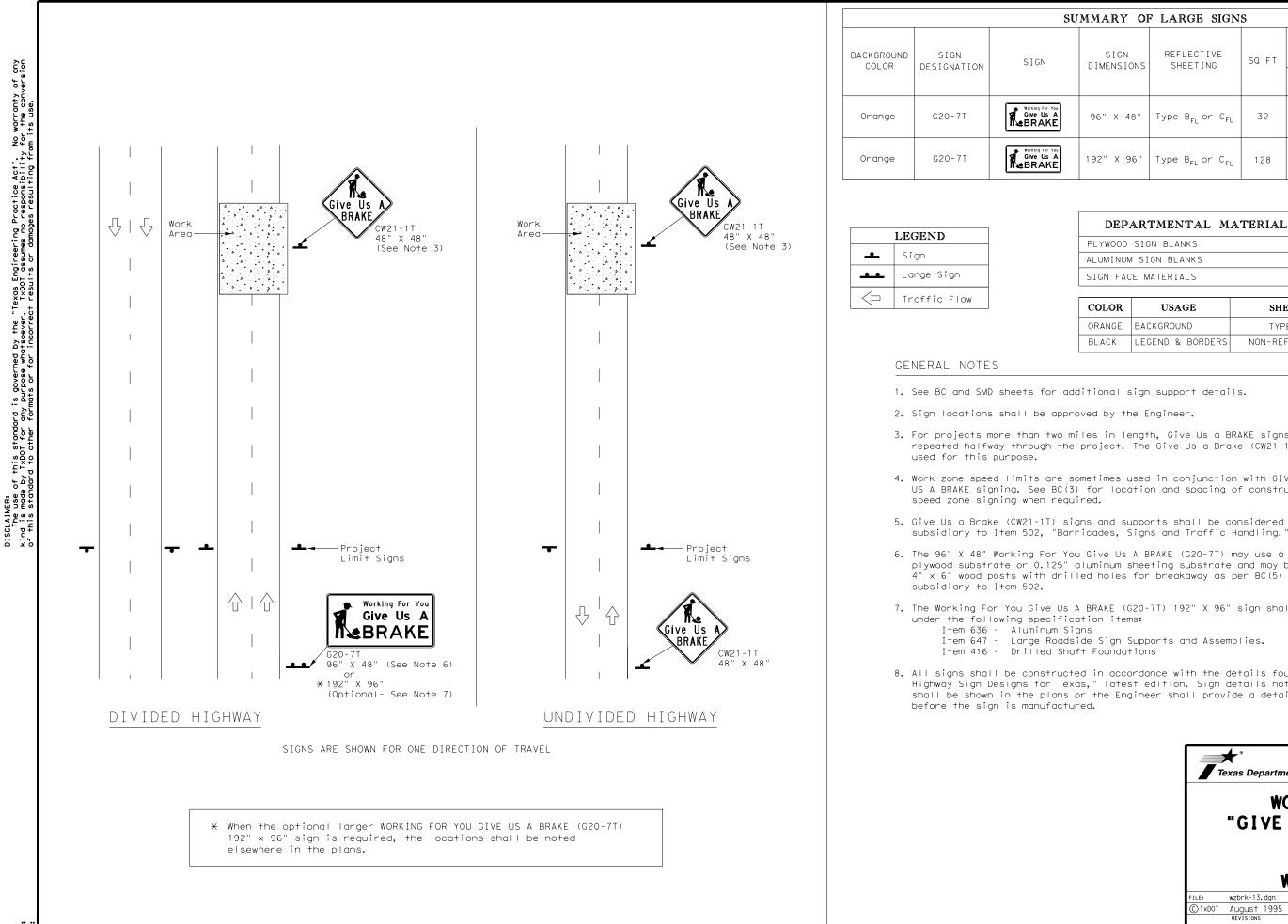
* Conventional Roads Only

XX Taper lengths have been rounded off. L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE							
	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
on		1	1					

- Signs are for illustrative purposes only. Signs • required may vary depending on the TCP, TMUTCD Typical Application, or project specific details for the project.
- For posted speeds in excess of 65 MPH, it is recommended that spacing is increased as speed limits increase. Increasing space between rumble strips will improve effectiveness.

	Texas Departmen	nt of Tra	nsp	ortation		Traffic Safety Division Standard
distance trips in ray	TEMPORARY W <i>7</i>	RU (RS			STR	RIPS
	FILE: wzrs22.dgn	-	DOT		ow: TxDC	)T CK: TXDOT
	CTxDOT November 2012	CONT	SECT	JOB		HIGHWAY
	REVISIONS	0920	12	047	1	AR IOUS
+	2-14 1-22 4-16	DIST		COUNTY		SHEET NO.
	4-16	BMT		JASPE	R	32



U	UMMARY OF LARGE SIGNS										
	SIGN	SIGN REFLECTIVE		GALVANIZED STRUCTURAL STEEL		DRILLED SHAFT					
	DIMENSIONS	SHELLING		Size	(LF)		24" DIA. (LF)				
	96" X 48"	Type B _{FL} or C _{FL}	32				•				
	192" X 96"	Type B _{FL} or C _{FL}	128	W8×18	16	17	12				

▲ See Note 6 Below

DEPARTMENTAL	MATERIAL	SPEC	IFICATIONS
PLYWOOD SIGN BLANKS			DMS-7100
ALUMINUM SIGN BLANKS			DMS-7110
SIGN FACE MATERIALS			DMS-8300

COLOR	USAGE	SHEETING MATERIAL
ORANGE	BACKGROUND	TYPE B _{fl} or type C _{fl}
BLACK	LEGEND & BORDERS	NON-REFLECTIVE ACRYLIC FILM

3. For projects more than two miles in length, Give Us a BRAKE signs should be repeated halfway through the project. The Give Us a Brake (CW21-1T) may be

4. Work zone speed limits are sometimes used in conjunction with GIVE US A BRAKE signing. See BC(3) for location and spacing of construction

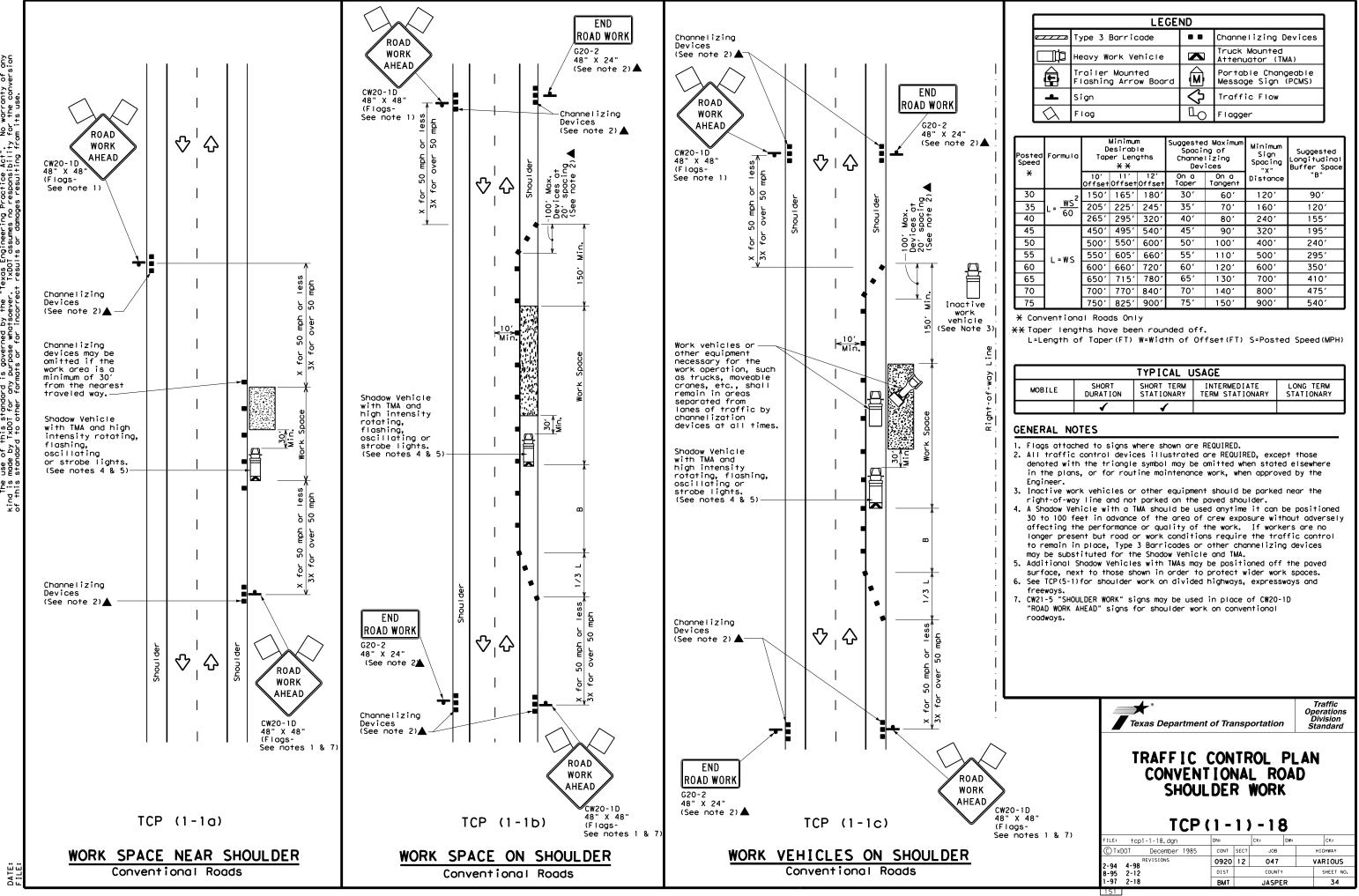
subsidiary to Item 502, "Barricades, Signs and Traffic Handling."

6. The 96" X 48" Working For You Give Us A BRAKE (G20-7T) may use a 1/2" or 5/8" plywood substrate or 0.125" aluminum sheeting substrate and may be supported by two 4" x 6" wood posts with drilled holes for breakaway as per BC(5) and will be

7. The Working For You Give Us A BRAKE (G20-7T) 192" X 96" sign shall be paid for under the following specification items: Item 647 - Large Roadside Sign Supports and Assemblies.

8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor

· ·			Traffic Operations							
Texas Department of Transportation										
WORK ZONE "GIVE US A BRAKE" SIGNS WZ (BRK) - 13										
FILE: wzbrk-13.dgn	DN: TXDO	CK: TXDOT DW:	TxDOT CK: TxDOT							
© TxDOT August 1995	CONT SEC	T JOB	HIGHWAY							
REVISIONS	0920 12	2 047	VARIOUS							
6-96 5-98 7-13	DIST	COUNTY	SHEET NO.							
8-96 3-03	BMT	JASPER	33							
116										

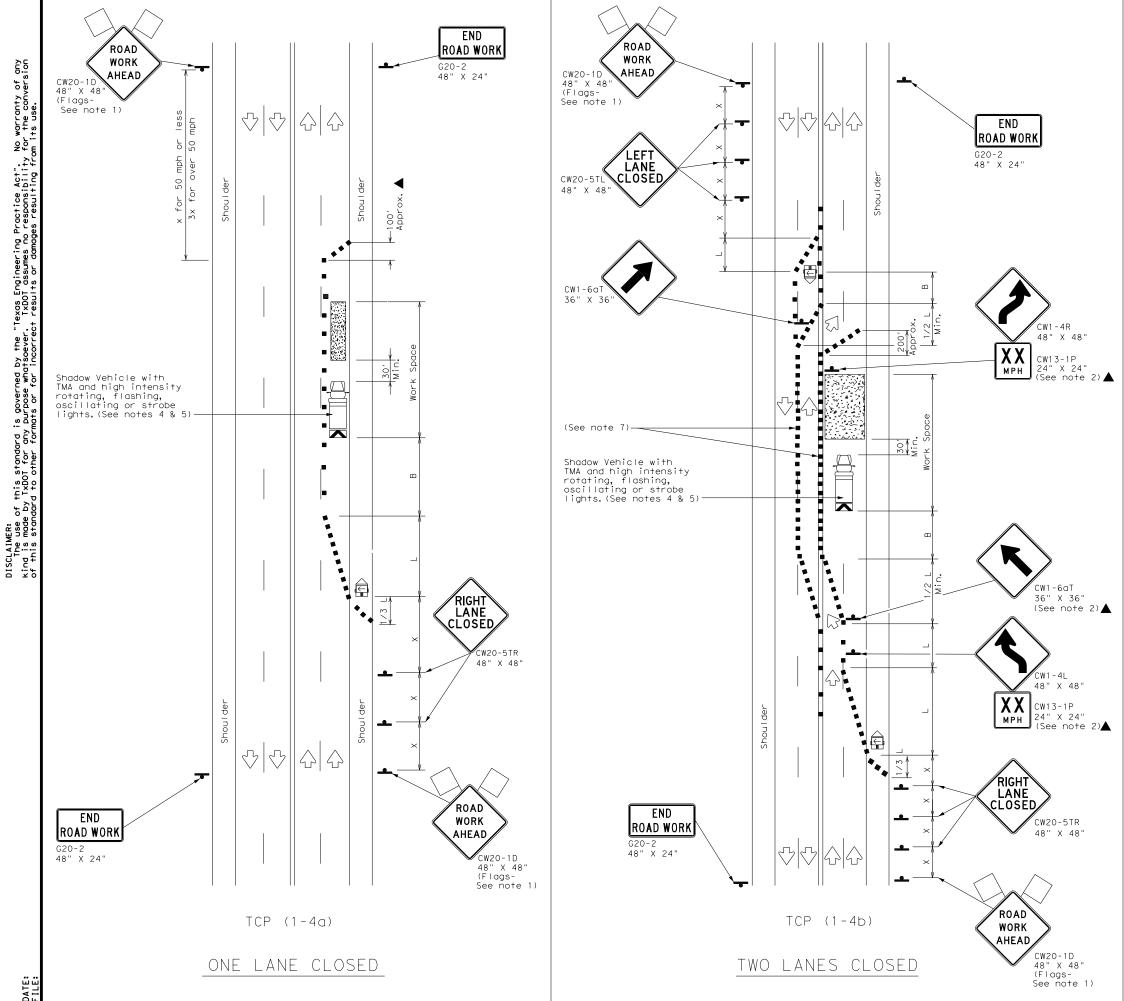


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TXDD1 for any purpose whatsoever. TXDD1 assumes no resonsibility for the conversion of this standard to other formats or for incortect results or damages resulting from its use.

	LEGEND									
	Type 3 Barricade		Channelizing Devices							
₿	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)							
-	Sign	2	Traffic Flow							
$\langle$	Flag	٩	Flagger							

Speed	Formula Formula XX			Špacir Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space		
*		10' Offset	11' 12' 0ffset0ffset		On a Taper	On a Tangent	Distance	"B"	
30		150'	165'	180'	30′	60′	120′	90'	
35	$L = \frac{WS^2}{60}$	205'	225′	245'	35′	70′	160′	120'	
40	60	265′	295′	320'	40′	80′	240′	155′	
45		450'	495′	540′	45′	90 <i>'</i>	320′	195′	
50		500'	550'	600′	50 <i>'</i>	100′	400′	240'	
55	L=WS	550'	605 <i>'</i>	660 <i>'</i>	55 <i>'</i>	110′	500 <i>1</i>	295′	
60	L - # 5	600 <i>'</i>	660 <i>'</i>	720'	60 <i>'</i>	120'	600 <i>'</i>	350′	
65		650 <i>'</i>	715′	780'	65 <i>'</i>	130'	700′	410′	
70		700'	770'	840 <i>'</i>	70'	140'	800′	475′	
75		750'	825′	900′	75′	150'	900′	540 <i>′</i>	

TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	1	1					



DATE:

	LEGEND								
<u>~~~~</u>	Type 3 Barricade		Channelizing Devices						
□¤	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)						
	Trailer Mounted Flashing Arrow Board	ί M ³	Portable Changeable Message Sign (PCMS)						
<u> </u>	Sign	$\langle \cdot \rangle$	Traffic Flow						
$\bigtriangleup$	Flag	LO	Flagger						

Posted Speed	Formula	D	Minimur esirab er Len <del>X</del> <del>X</del>	le	Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30		150′	165′	180′	30′	60′	120′	90′
35	$L = \frac{WS^2}{60}$	205′	225'	245′	35′	70′	160′	1201
40	00	265′	295′	320′	40′	80′	240′	155′
45		450′	495′	540′	45′	90′	320′	195′
50		500′	550′	600′	50′	100′	400′	240′
55	L=WS	550′	605′	660′	55′	110′	500′	295′
60		600′	660′	720′	60′	120′	600′	350′
65		650′	715′	780′	65′	130′	700′	410′
70		700′	770′	840′	70′	140′	800′	475′
75		750′	825′	900′	75′	150′	900′	540′

X Conventional Roads Only

 $\times$  Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
	1	1						

### GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.

- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer. 3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the
- visibility of the work zone is less than 1500 feet. 4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

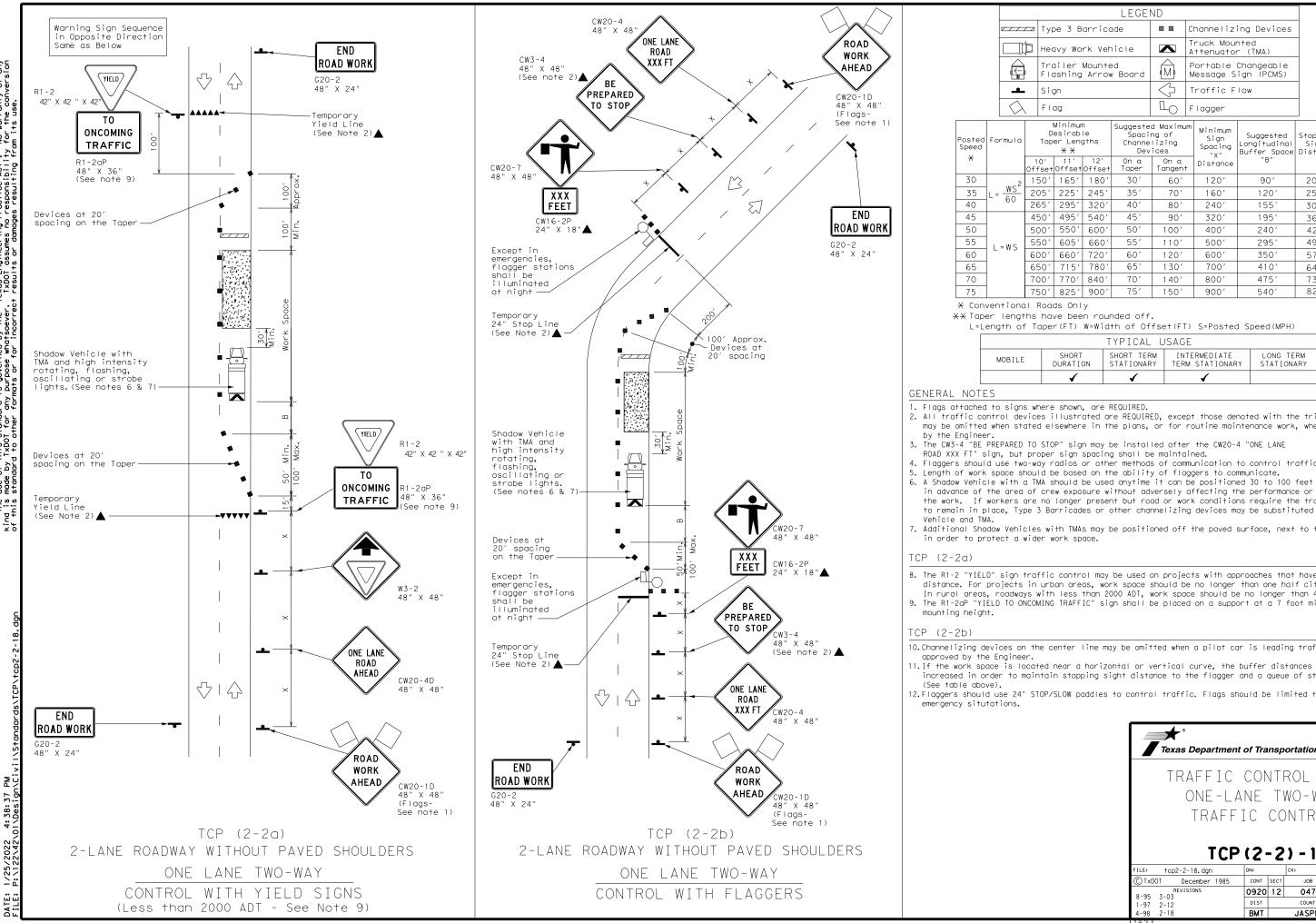
TCP (1-4a)

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b)

7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

Texas Department	t of Tran	sportation	Traffic Operations Division Standard
TRAFFIC	RES	on Mui	LTILANE
CONVEN		IAL RO 4)-18	
		4) - 18	
ТСР	( <b>1</b> – 4	4) - 18	}
FILE: tcp1-4-18.dgn CTXDOT December 1985 REVISIONS	( <b>1</b> – 4	<b>4) - 18</b> ск: с ест јов	W: Ск:
FILE: tcp1-4-18.dgn © TxDOT December 1985	() – 4 DN: CONT SE	<b>4) - 18</b> ск: с ест јов	HICHWAY CK:



No warranty of any for the conversion Proctice Act". responsibility Texas Engineering TxDOT assumes no governed by 1 urpose whatsoe s nd this standard i / TxDOT for any ٩⁶ ISCLAIMER: The use

				LEGEI	٧D				
_		ype 3 B	arrico	lde		С	hanneliz	ing Devices	
ľ	Heavy Work Vehicle					ruck Mour ttenuator			
	Trailer Mounted Flashing Arrow Board				(M)		ortable Message S		
<u> </u>	S			$\langle \rangle$	Т	raffic F	low		
$\boldsymbol{\lambda}$	× Flag					F	lagger		
а	Tc	Minimum Desirable Taper Lengths X X		Špaci Channe	d Maximum ng of lizing rices		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space	Stopping Sight Distance
	10′ Offse	11' tOffset	12' Offset	On a Taper	On a Tangen	+	Distance	"B"	
2	150	1651	180′	30′	60′		120′	90′	200′
_	205	' 225'	245′	35′	70′		160′	120′	250′
	265	′ 295′	320′	40′	80′		240′	155′	305′
	450	′ 495′	540′	45′	90′		320′	1957	360′
	500	′ 550′	600′	50′	100′		400′	240′	425′
	550	' 605′	660′	55′	110′		500′	295′	495′
	600	′ 660′	720′	60′	120′		600′	350′	570′
	650	′ 715′	780′	65′	130′		700′	410′	645′
	700	′ 770′	840′	70′	140′		800′	475′	730′
	750	' 825'	900′	75′	150′		900′	540′	820′

XX Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE						
E	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	✓	✓	4				

1. Flags attached to signs where shown, are REQUIRED. 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved

3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.

4. Flaggers should use two-way radios or other methods of communication to control traffic.

in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow

7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown

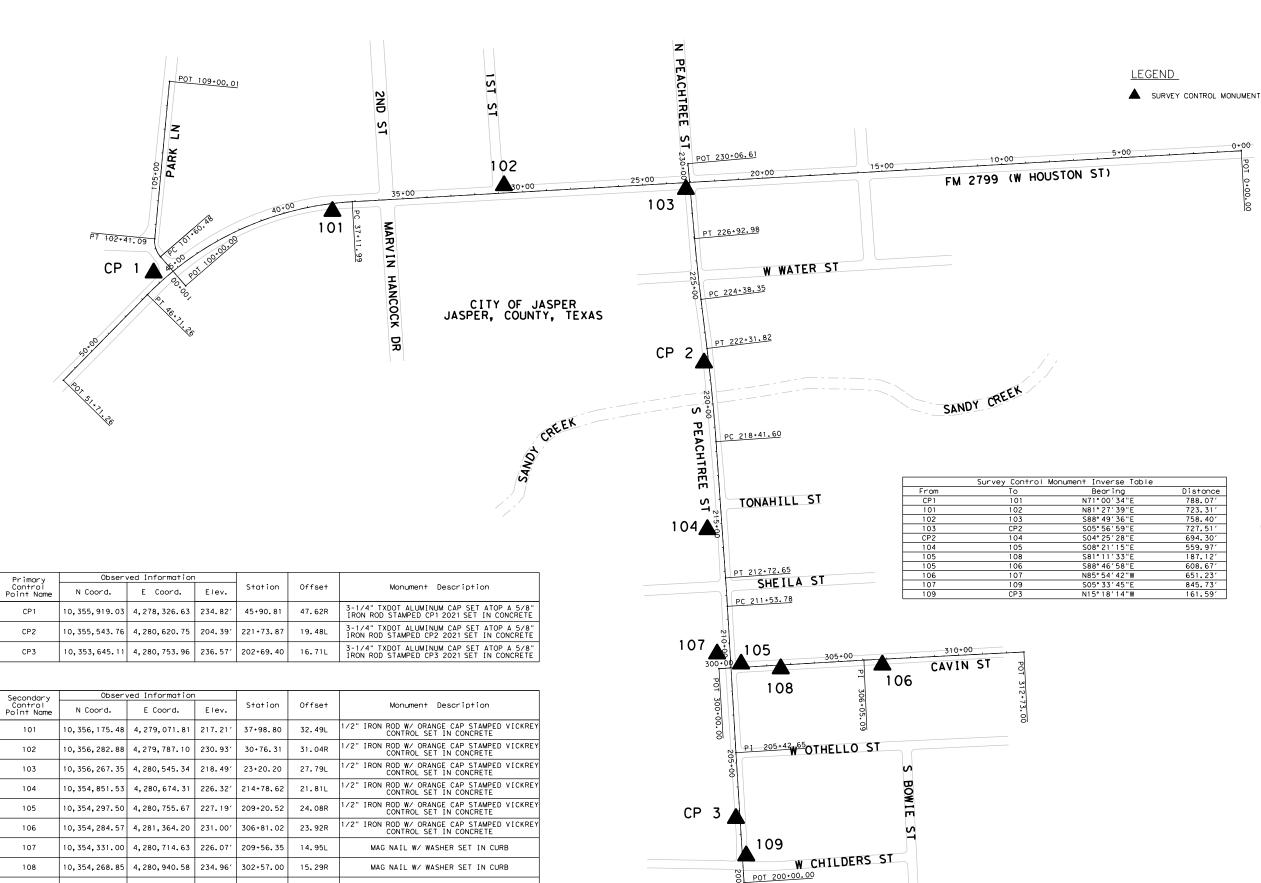
8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet. 9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and

11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles.

12.Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to

Texas Departmen	nt of Trans	sportatio	n	Op D	Traffic erations Division tandard
TRAFFIC	CONT	TROI	ΡI	Δ	N
ONE-L	ane i	WO - \	NΑ`	{	
	$T \cap \cap$	$^{\circ}$ ONT D	$\cap \cap$		
TRAFF	FIC C	CONTR	COL		
TRAFF	FIC C	CONTR	CL		
	P(2-)				
					CK:
TCF	) (2-2	2) - 1	8		CK: HIGHWAY
FILE: tcp2-2-18.dgn CTxD0T December 1985 REVISIONS	DN: CONT SE	<b>2) - 1</b>	DW:		
FILE: tcp2-2-18.dgn © TxDOT December 1985	DN: CONT SE	<b>2) - 1</b> ск: ст јов	DW:		HIGHWAY



MAG NAIL W/ WASHER SET IN CURB

109

10, 353, 489. 25 4, 280, 796. 61 233. 79'

201+11.18

16.13R



NOTES:

1. ALL COORDINATES SHOWN ARE BASED ON NAD 83 (2011 ADJUSTMENT, EPOCH 2010.00) TEXAS COORDINATE SYSTEM, CENTRAL ZONE 4203.

ζŊ

2. PRIMARY CONTROL WAS ESTABLISHED UTILIZING REDUNDANT OBSERVATIONS BASED ON THE TXDOT REAL-TIME NETWORK (RTN), WTH OBSERVATIONS FLOWING FROM RTN NEWTON_TXNE. SECONDARY CONTROL WAS ESTABLISHED UTILIZING OPTICAL MEASUREMENTS WITH TOTAL STATION.

3. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88) AND DERIVED FROM DIGITAL DIFFERENTIAL LEVELING.

4. ALL COORDINATES SHOWN ARE IN SURFACE VALUES AND MAY BE CONVERTED TO GRID DIVIDING BY A SURFACE ADJUSTMENT FACTOR OF 1.00012 ALL MEASUREMENTS ARE IN U.S. SURVEY FEET.

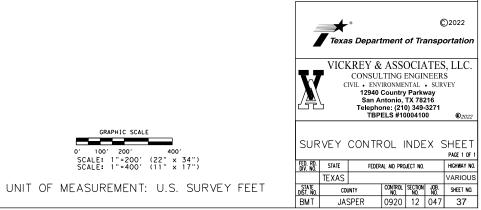
5. CONTROL VALUES MEET SPECIFICATIONS FOR TXDOT LEVEL 2 AND 3 GPS SURVEYS.



THE CONTROL POINTS SHOWN HEREIN WERE DETERMINED BY A SURVEY MADE ON THE GROUND AND UNDER MY SUPERVISION.

ent Inverse Table	
Bearing	Distance
N71°00′34″E	788.07′
N81°27′39"E	723.31′
S88° 49′ 36"E	758.40′
S05°56′59"E	727.51′
S04° 25′ 28"E	694.30′
S08°21′15"E	559.97′
S81°11′33"E	187.12′
S88° 46′ 58"E	608.67′
N85°54′42"W	651.23′
S05° 33′ 45 "E	845.73′
N15°18′14"W	161.591

THE SURVEY CONTROL INFORMATION HAS BEEN ACCEPTED AND INCORPORATED INTO THIS PS&E.



## FM 2799

Chain HOUBL contains: HOUBL1 CUR HOUBL 3 HOUBL5

Beginning chain HOUBL description Feature: Geom Centerline

### Point HOUBL1 N 10,356,427.68 E 4,282,860.16 Sta 0+00.00

Course from HOUBL1 to PC HOUBL 3 S 86° 43' 27" W Dist 3,711.99

		Curve D	ata		
		*	<del>X</del>		
Curve HOUBL 3					
P.I. Station	42+14.64	N	10,356,186.84	E	4,278,652.40
Delta =	42° 16′ 43″	(LT)			
Degree =	4° 24′ 27″				
Tangent =	502.65				
Length =	959.27				
Radius =	1,300.00				
External =	93.79				
Long Chord =	937.66				
Mid. Ord. =	87.48				
P.C. Station	37+11.99	Ν	10,356,215.57	E	4,279,154.24
P.T. Station	46+71.26	N	10,355,827.99	E	4,278,300.43
С.С.		Ν	10,354,917.69	E	4,279,228.52
Back = S 86	° 43′ 27″ W				
Ahead = S 44	° 26′ 44″ W				
Chord Bear = S 65	° 35′ 05″ W				
Course from PT HOUB	L 3 to HOUBL5 S	5 44° 26′	44" W Dist 500	.00	
Point HOUBL5	N 10,355,	,471.03 E	4,277,950.	31 Sta	51+71.26

Ending chain HOUBL description

## PARK

Chain PRKBL contains: PRKBL1 CUR PRKBL_3 PRKBL5

Beginning chain PRKBL description Feature: Geom_Centerline

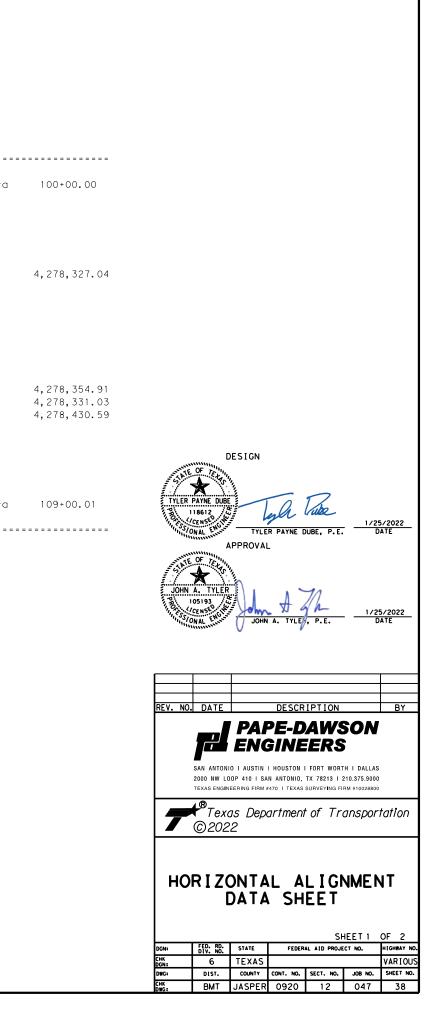
Point PRKBL1 N 10,355,864.71 E 4,278,459.81 Sta 100+00.00

Course from PRKBL1 to PC PRKBL_3 N 40° 48' 57" W Dist 160.48

	Curve Data **
Curve PRKBL_3	
P.I. Station 102+03.1	12 N 10,356,018.44 E
Delta = 46° 11' 00	, ,
Degree = 57° 17′ 45	5 "
Tangent = 42.6	34
Length = 80.6	51
Radius = 100.0	00
External = 8.7	71
Long Chord = 78.4	44
Mid. Ord. = 8.0	21
P.C. Station 101+60.4	48 N 10,355,986.17 E
P.T. Station 102+41.0	D9 N 10,356,060.89 E
C.C.	N 10,356,051.53 E
Back = N 40° 48′ 57" W	
Ahead = N 5° 22′ 04″ E	
Chord Bear = N 17° 43′ 26" W	
Course from PT PRKBL_3 to PRKBL5	5 N 5° 22′ 04″ E Dist 658.92
Point PRKBL5 N 10,35	56,716.92 E 4,278,392.67 Sta
Ending chain PRKBL description	
LIGHTY CHATTER KBL DESCRIPTION	

## CAVIN

Chain CAVNBL contai CAVNBL1 CAVNBL3 CA						
Beginning chain CAV Feature: Geom_Cente		scription	= = = = = = = =			
Point CAVNBL1	Ν	10,354,268.96	E	4,280,683.13	S†a	300+00.00
Course from CAVNBL1	to CAV	'NBL3 N 86° 37'	09" E	Dist 605.09		
Point CAVNBL3	Ν	10,354,304.64	E	4,281,287.16	S†a	306+05.09
Course from CAVNBL3	to CAV	'NBL4 N 87° 07'	01" E	Dist 667.92		
Point CAVNBL4	Ν	10,354,338.24	E	4,281,954.23	S†a	312+73.00
Ending chain CAVNBL	descri	ption				



## PEACHTREE

					Curve Data **			
Chain PCHTRBL conto PCHTRBL1 PCHTRBL3		UR PCHTR	RBL_8 CUR PCHTRBL_11	PCHTRBL13	Curve PCHTRBL_11 P.I. Station 225+65.68 N 10,355,934. Delta = 1°56′43″(RT)	91 E		
Beginning chain PCHTRBL description Feature: Geom_Centerline					Degree = 0° 45′ 50" Tangent = 127.33 Length = 254.63	3		
Point PCHTRBL1		377.28 E			Radius     =     7,500.00       External     =     1.08       Long Chord     =     254.62			
Course from PCHTRBI	_1 to PCHTRBL3 N	3° 34′	43" W Dist 542.65		Mid. Ord. = 1.08			
Point PCHTRBL3	N 10,353,	918.87 E	4,280,753.58 St	a 205+42.65	P.C. Station 224+38.35 N 10,355,808. P.T. Station 226+92.98 N 10,356,061. C.C. N 10,356,721.	74 E		
Course from PCHTRBI	_3 to PC PCHTRBL	_5 N 3°	19′48" W Dist 611.1	3	Back = N 6° 59′ 31″ W			
		Curve [			Ahead = N 5° 02′ 48" W Chord Bear = N 6° 01′ 10" W			
Curve PCHTRBL_5	010 17 00			4 000 714 67	Course from PT PCHTRBL_11 to PCHTRBL13 N 5° 02′ 48" W	Dist 3		
P.I. Station Delta = Degree =	212+13.22 0° 40′ 52" 0° 34′ 23"		10,354,588.30 E	4,280,714.63	Point PCHTRBL13 N 10,356,374.15 E 4,280,5	53.84		
langent =	59.43							
_ength = Radius = External =	118.86 10,000.00 0.18				Ending chain PCHTRBL description			
_ong Chord  = Mid. Ord.   =	118.86 0.18							
P.C. Station	211+53.78	N	10,354,528.97 E	4,280,718.08				
P.T. Station C.C.	212+72.65	N N	10,354,647.59 E 10,353,948.13 E	4,280,710.47 4,270,734.97				
	3° 19′ 48" W 4° 00′ 39" W 3° 40′ 13" W							
Course from PT PCH	TRBL_5 to PC PCH	TRBL_8 N	N 4° 00′ 39" W Dist 5	68.95				
		Curve [						
Curve PCHTRBL_8			10 755 100 07 5					
P.I. Station Delta = Degree =	220+36.76 2° 58′ 52" 0° 45′ 50"		10,355,409.83 E	4,280,657.03				
P.I. Station Delta = Degree = Tangent =	2° 58′ 52"		10,355,409.83 E	4,280,657.03				
P.I. Station Delta = Degree = Tangent = Length = Radius =	2° 58′ 52" 0° 45′ 50" 195.16 390.22 7,500.00		10,355,409.83 E	4,280,657.03				
P.I. Station Delta = Degree = Tangent = Length = Radius = External =	2°58′52" 0°45′50" 195.16 390.22		10,355,409.83 E	4,280,657.03				
P.I. Station Delta = Degree = Tangent = Length = Radius = External = Long Chord = Mid. Ord. =	2° 58′ 52" 0° 45′ 50" 195.16 390.22 7,500.00 2.54 390.18 2.54	(LT)						
P.I. Station Delta = Degree = Tangent = Length = Radius = External = Long Chord =	2° 58′ 52" 0° 45′ 50" 195.16 390.22 7,500.00 2.54 390.18	(LT) N	10,355,409.83 E 10,355,215.15 E 10,355,603.53 E 10,354,690.55 E	4,280,657.03 4,280,670.68 4,280,633.27 4,273,189.05				

4,280,592.63

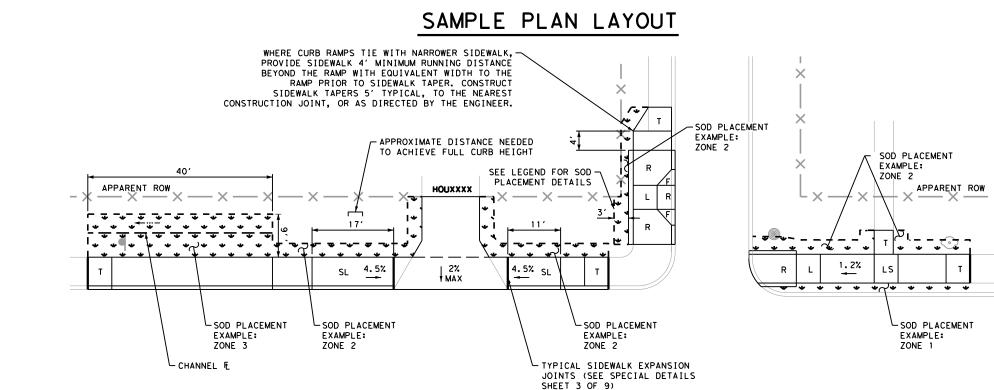
4,280,608.13 4,280,581.43 4,288,052.35

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230+06.61

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7	€ [®] Texa ©202		artmeni	of Tr	ansport	tation
HORIZONTAL ALIGNMENT DATA SHEET SHEET 2 OF 2						
DGN:	FED. RD. DIV. NO.	STATE	FEDER	AL AID PROJE	CT NO.	HIGHWAY NO.
CHK DGN:	6	TEXAS				VARIOUS
DWG:	DIST.	COUNTY	CONT. NO.	SECT. NO.	JOB NO.	SHEET NO.
CHK DWG:	BMT	JASPER	0920	12	047	39



# LEGEND OF SYMBOLS

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DESIGNATI

SLOPE

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2

- F = FLARE (10:1 OR LESS) MEASURED AT FACE OF CURB
  - R = RAMP (CROSS SLOPE NOT TO EXCEED 2 PERCENT; LONGITUDINAL NOT TO EXCEED 8.3 PERCENT)
- = LANDING (SHALL NOT EXCEED 2 PERCENT SLOPE IN ANY DIRECTION)
- L1 = SHARED LANDING (SHALL NOT EXCEED 2 PERCENT SLOPE IN ANY DIRECTION)
- LS = LEVEL SIDEWALK (SHALL NOT EXCEED 2 PERCENT SLOPE IN ANY DIRECTION)
- SL = SLOPED SIDEWALK. IF INDICATED, CONSTRUCT SLOPED SIDEWALK AT
- LONGITUDINAL SLOPE SHOWN ON THE PLANS. OTHERWISE LONGITUDINAL SLOPES MAY NOT EXCEED 5 PERCENT, CROSS SLOPES MAY NOT EXCEED 2 PERCENT

- T = TAPER SIDEWALK WIDTH TO NEAREST EXISTING PANEL JOINT (5' TYP)
- SDWK = SIDEWALK
- DRWY = DRIVEWAY

NOTES

### TYPICAL LIMITS OF SOD PLACEMENT ARE AS FOLLOWS:

- ZONE 1:PLACE SOD BETWEEN THE BACK OF CURB AND PROPOSED IMPROVEMENTS
- (SIDEWALK, DRIVEWAY, RIPRAP, ETC.)

PLACE SOD AS DIRECTED BY THE ENGINEER

1. FLARE (F), RAMP (R), AND LANDING (L), DIRECTLY IN CONTACT WITH THE CURB RAMP ARE PAID FOR UNDER ITEM 531 "CURB RAMPS"

2. LEVEL SIDEWALK (LS) AND RAMPS (R) NOT DIRECTLY IN CONTACT

WITH THE CURB RAMP ARE PAID FOR UNDER ITEM 531 "SIDEWALK"

- ZONE 2:PLACE SOD 3' BEYOND PROPOSED IMPROVEMENTS

- IF THE SPACE BETWEEN THE IMPROVEMENTS AND THE ROW IS LESS THAN 3', PLACE SOD BETWEEN PROPOSED IMPROVEMENTS AND THE ROW

- ZONE 3:PLACE SOD WITHIN THE LIMITS OF SOIL DISTURBANCE DUE TO EXCAVATION OR EMBANKMENT AS DIMENSIONED ON THE PLANS

(XX-X) DRIVEWAY ID TOC TOP OF CURB FOC FACE OF CURB BLOCK SOD HOUXXXX DRIVEWAY ID

EXISTING ROADWAY OR DRIVEWAY SLOPE

PROPOSED ROADWAY, SIDEWALK

PI POINT

SIGN

UTILITY POLE

TREE/BUSHES

WATER METER

WATER VALVE

BASE LINE

OR DRIVEWAY SLOPE

PROFILE GRADE LINE

TRAFFIC FLOW ARROW

DRAINAGE FLOW ARROW

APPARENT ROW APPARENT RIGHT OF WAY LINE

SEWER CLEANOUT

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DRAINAGE FLOW DIRECTION

NO SEPARATE PAY ITEM

-OE - EX OVERHEAD ELECTRIC

EXISTING FENCE

CABLE PEDESTAL

TELEPHONE MANHOLE

FUTURE WORK BY OTHERS EXISTING FEATURES

FIRE HYDRANT

GAS METER

GAS VALVE

GUY ANCHOR

IRRIGATION

MAIL BOX

MANHOLE

- G - EX UNDERGROUND GAS

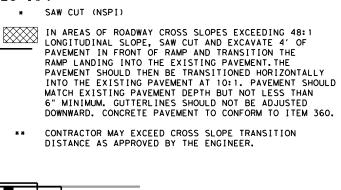
DESIGN ★ TYLER PAYNE DUB lyle lito 118612 CENSE? 
 TYLER PAYNE DUBE, P.E.
 1/25/2022
 IONAL EN APPROVAL ★ JOHN A. TYLER 105193 A1 CENSE? 1/25/2022 DATE IONAL ENC. JOHN A. TYLER. P.E. NOT TO SCALE REV. NO. DATE DESCRIPTION BY **PAPE-DAWSON ENGINEERS** SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000 TEXAS ENGINEERING FIRM #470 I TEXAS SURVEYING FIRM #1002880 Texas Department of Transportation ©2022 SAMPLE PLAN LAYOUT AND LEGEND OF SYMBOLS FED. RD. STATE FEDERAL AID PROJECT NO. 1 GHWAY 6 TEXAS VARIOU DIST. COUNTY CONT. NO. SECT. NO. JOB NO. SHEET NO. BMT JASPER 0920 12 047 40



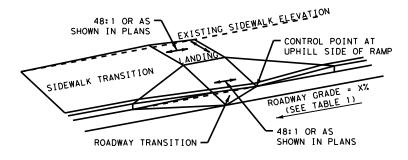
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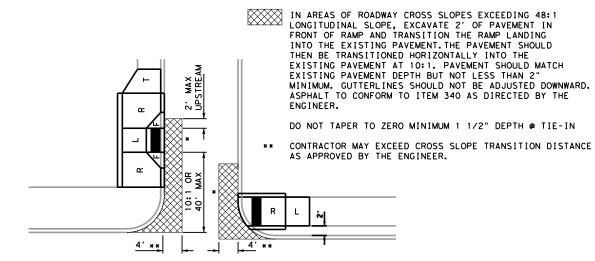


## ASPHALT/SEALCOAT ROADWAY

* SAW CUT (NSPI)

L

4'**



## CURB ELEVATION

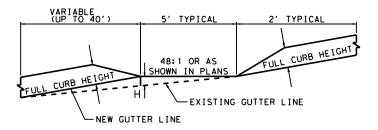
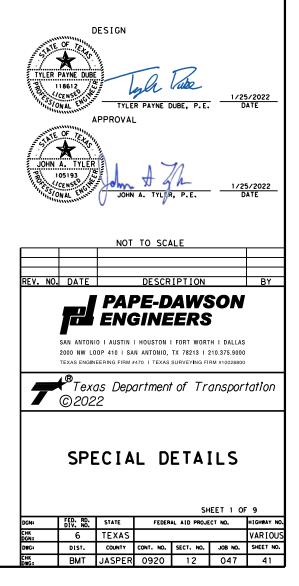
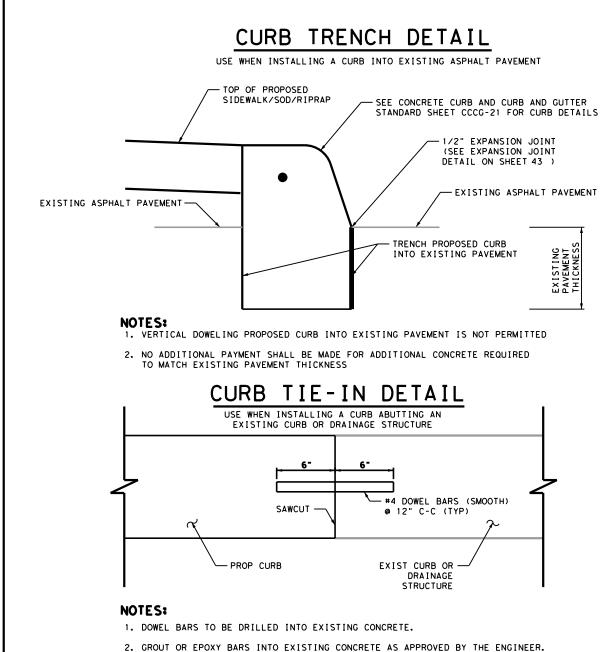
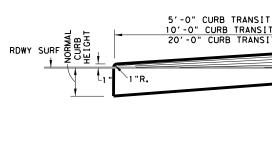


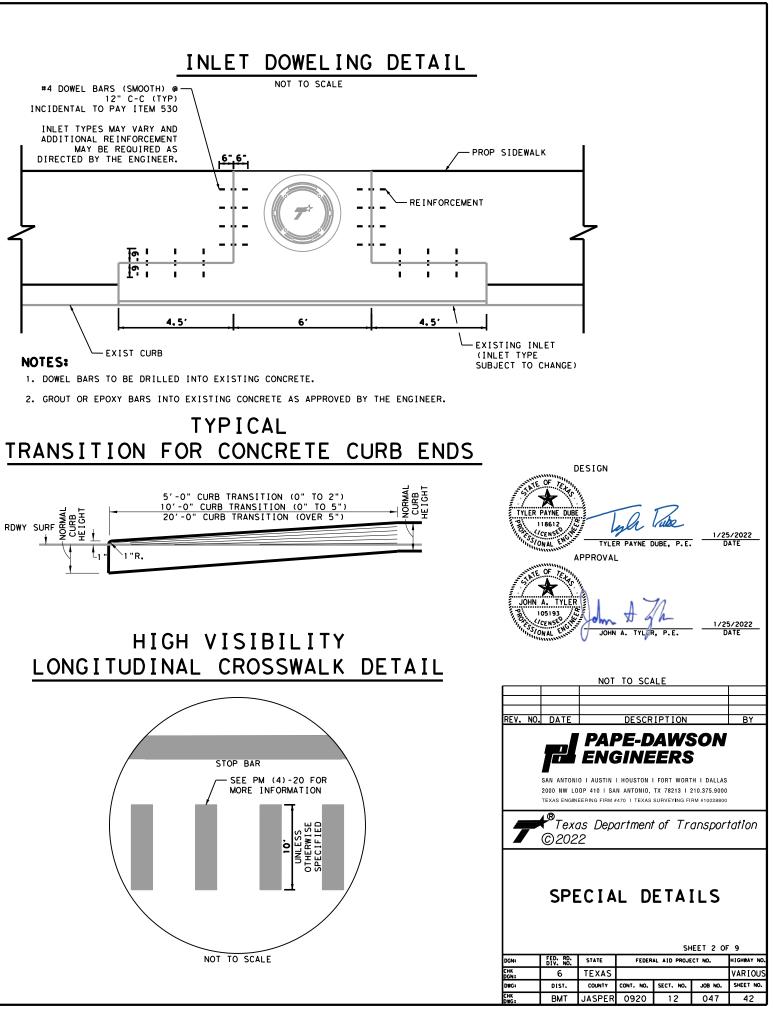
TABLE 1						
DIFFERENTIAL BETWEEN RAMP AND ROADWAY LONGITUDINAL SLOPE	ŀ	1				
1%	0.04 ′	0.50 "				
2%	0.08′	1.00 "				
3%	0.12′	1.50 "				
4%	0.16′	2.00 "				
5%	0.20′	2.40 "				
6%	0.24	2.90 "				

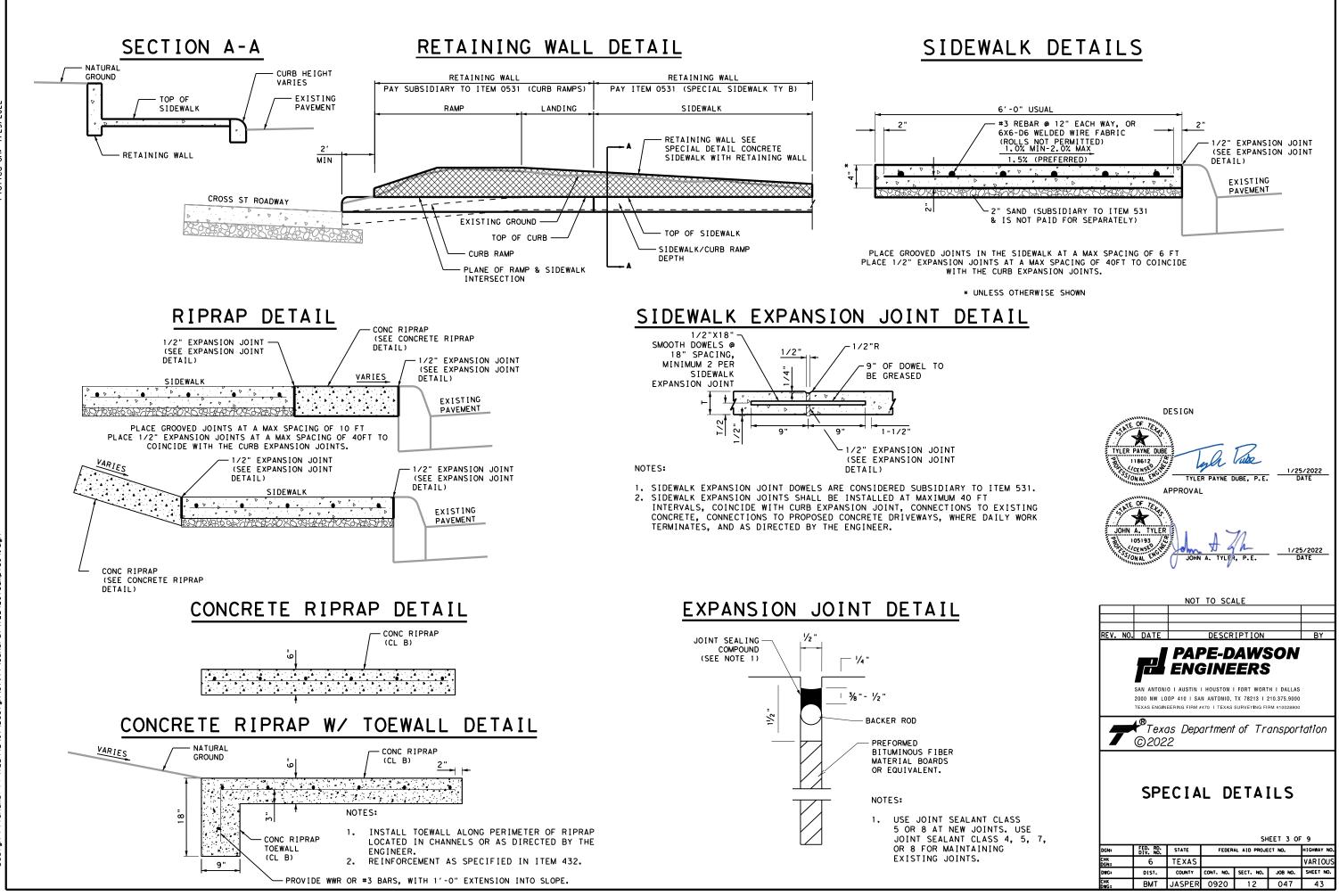






NOTES:





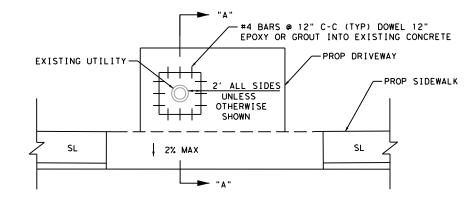
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# UTILITY BLOCKOUT

NOTES:

1. GROUT OR EPOXY BARS INTO EXISTING CONCRETE AS APPROVED BY THE ENGINEER.

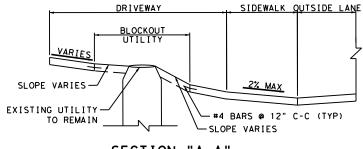


### SEQUENCE OF WORK:

I. REMOVE EXISTING CONCRETE OR ASPHALT WITHIN LIMITS OF PROPOSED WORK. CONSTRUCT FORMWORK FOR PROPOSED IMPROVEMENTS, INCLUDING UTILITY BLOCKOUT AS SHOWN. EXISTING UTILITY RIM TO REMAIN UNDISTURBED.

2. CONSTRUCT PROPOSED IMPROVEMENTS EXCEPT WITHIN UTILITY BLOCKOUT AREA. ALLOW TIME TO CURE, REMOVE FORMWORK.

3. DOWEL REINFORCEMENT AS SHOWN. CONSTRUCT IMPROVEMENTS WITHIN UTILITY BLOCKOUT AREA FLUSH WITH RIM OF UTILITY AND SURROUNDING (COMPLETED) IMPROVEMENTS.



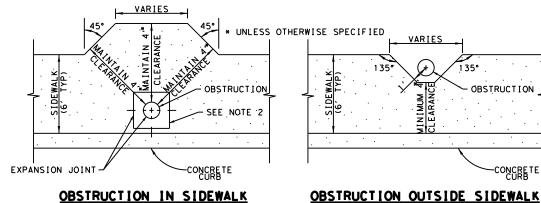
SECTION "A-A"

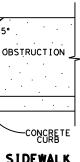
# OBSTRUCTION CONFLICT

NOTES:

1. UTILIZE DETAIL AT OBSTRUCTION ENCROACHMENTS INTO THE PEDESTRIAN ACCESS ROUTE. A MINIMUM UNOBSTRUCTED CLEARANCE OF 4', UNLESS OTHERWISE SPECIFIED, SHOULD BE MAINTAINED AROUND THE OBSTRUCTION MEASURED FROM THE MOST RESTRICTIVE LOCATION OR AS APPROVED BY THE ENGINEER

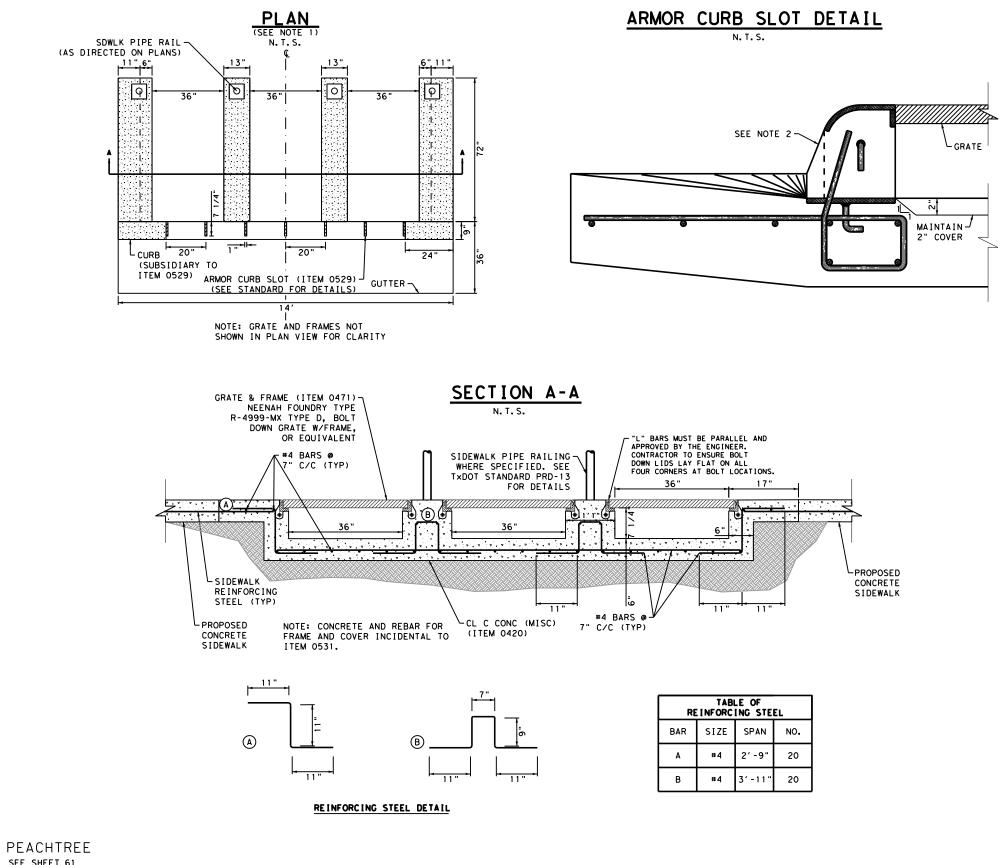
2. IF OBSTRUCTION IS LOCATED WITHIN THE SIDEWALK, CONSTRUCT 2' SQUARE CONSTRUCTION JOINT CENTERED ON OBSTRUCTION TO FACILITATE FUTURE MAINTENANCE WITHOUT FULL SIDEWALK PANEL REMOVAL/REPLACEMENT





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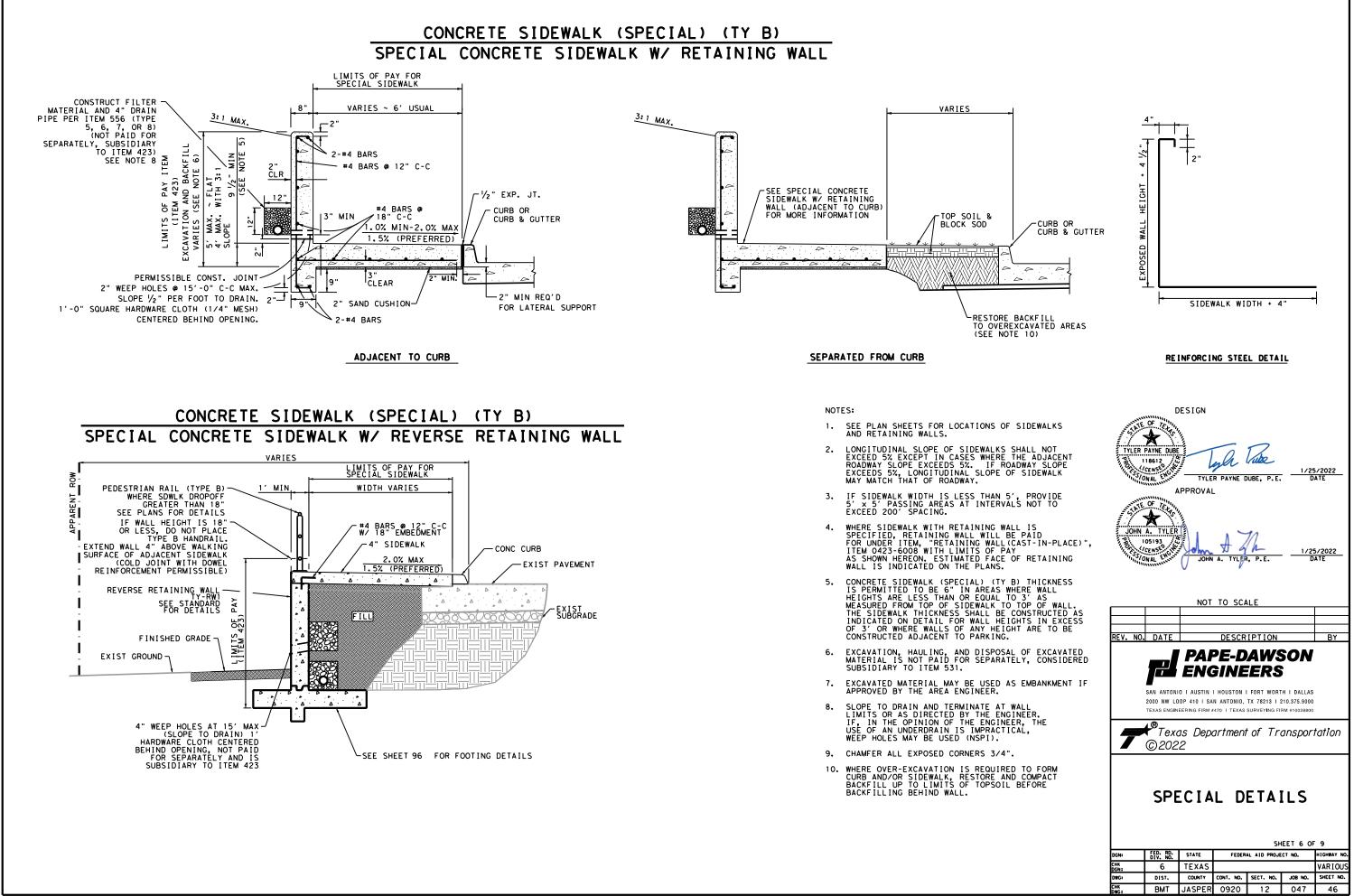


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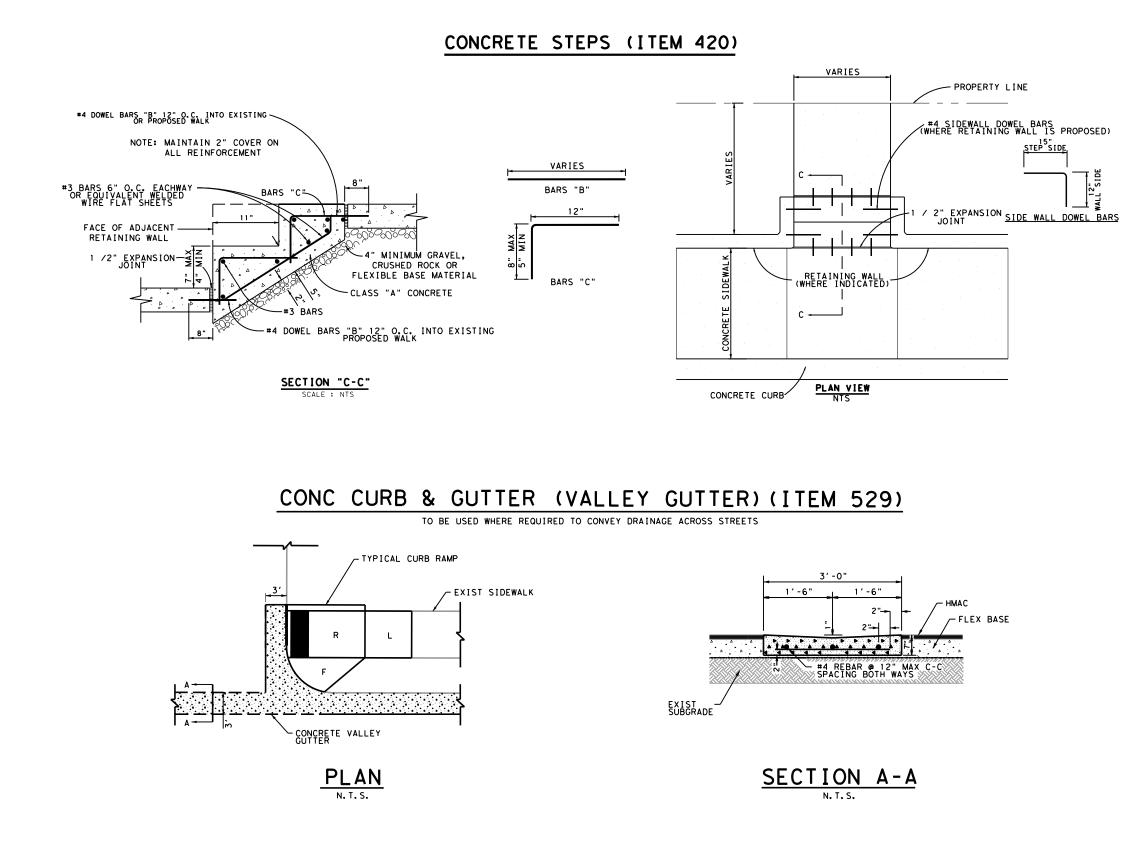
SEE SHEET 61 FOR SIDEWALK TYPE A LOCATION NOTES:

- SIDEWALK (TY A) IS PAID SEPARATELY UNDER THE FOLLOWING PAY ITEMS UNLESS OTHERWISE SHOW:
   ITEM 0104-6029 REMOVING CONC (CURB OR CURB & GUTTER) ITEM 0471-6003 GRATE & FRAME ITEM 0471-6003 GRATE & FRAME ITEM 0529-6020 CONC CURB & GUTTER (ARMOR CURB) ITEM 0420-6074 CL C CONC (MISC)
   SEE ARMOR CURB SLOT DETAIL FOR
- 2) SEE ARMOR CURB SLOT DETAIL FO ADDITIONAL INFORMATION

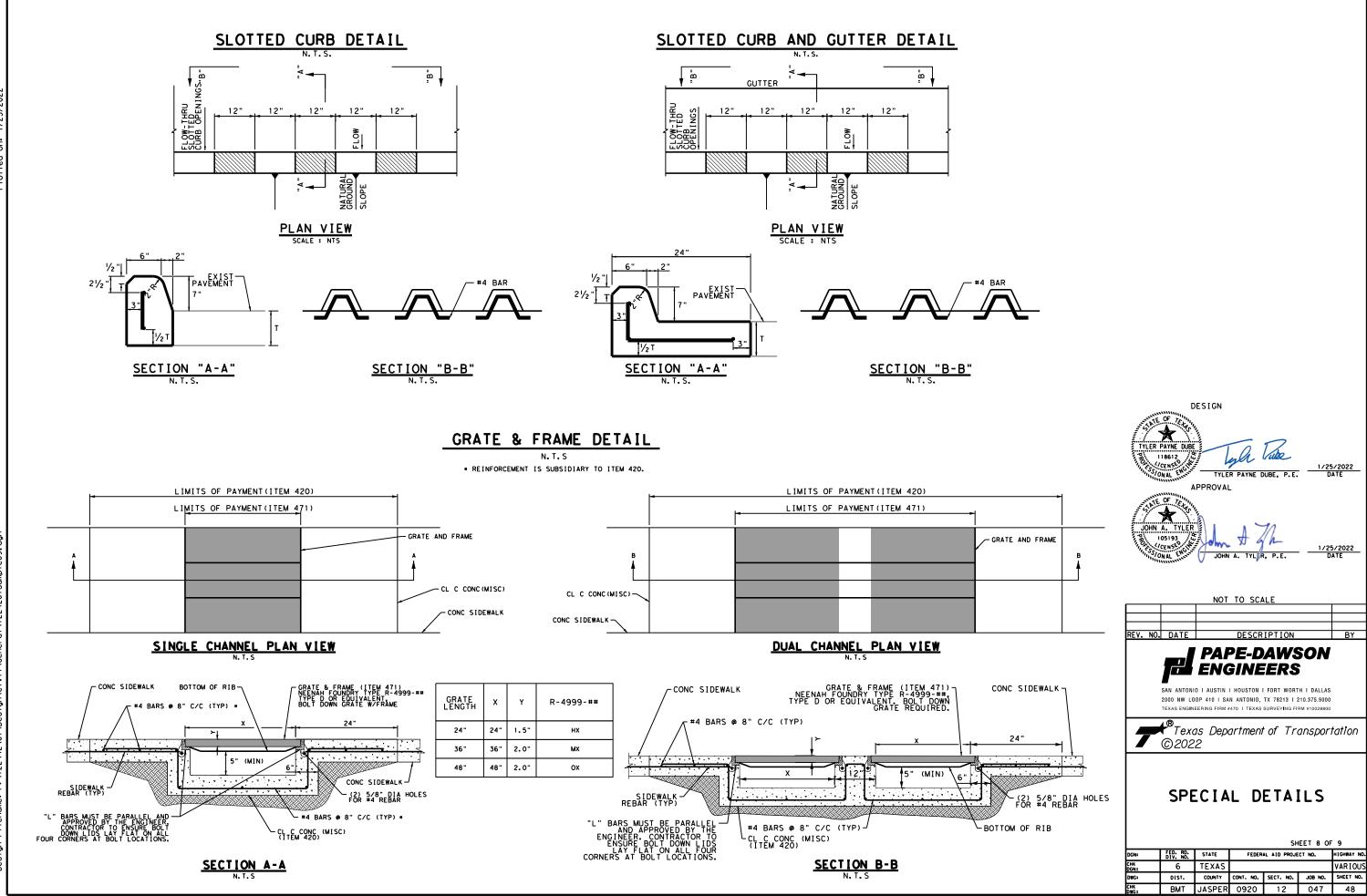
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Texas Department of Transportation								
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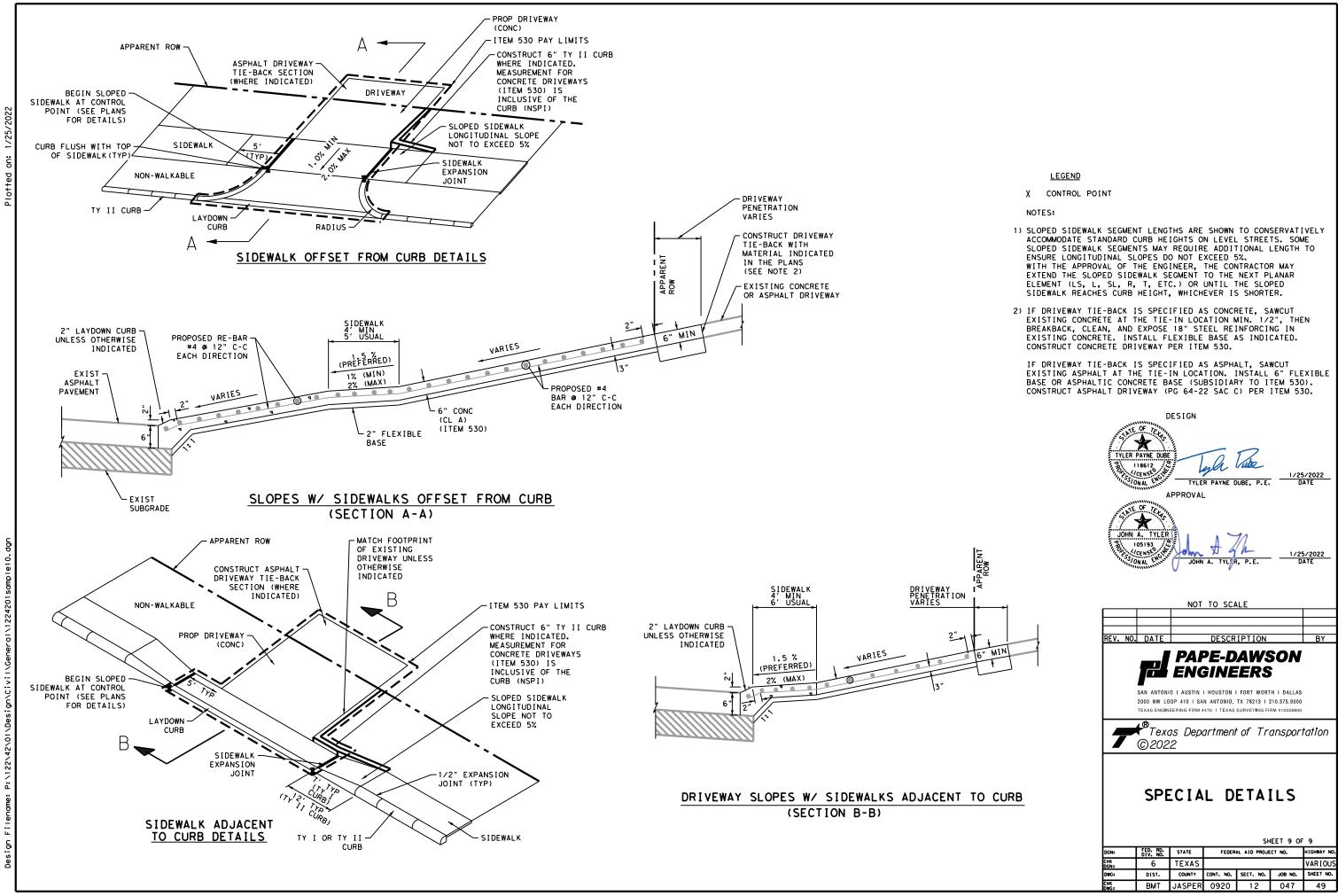


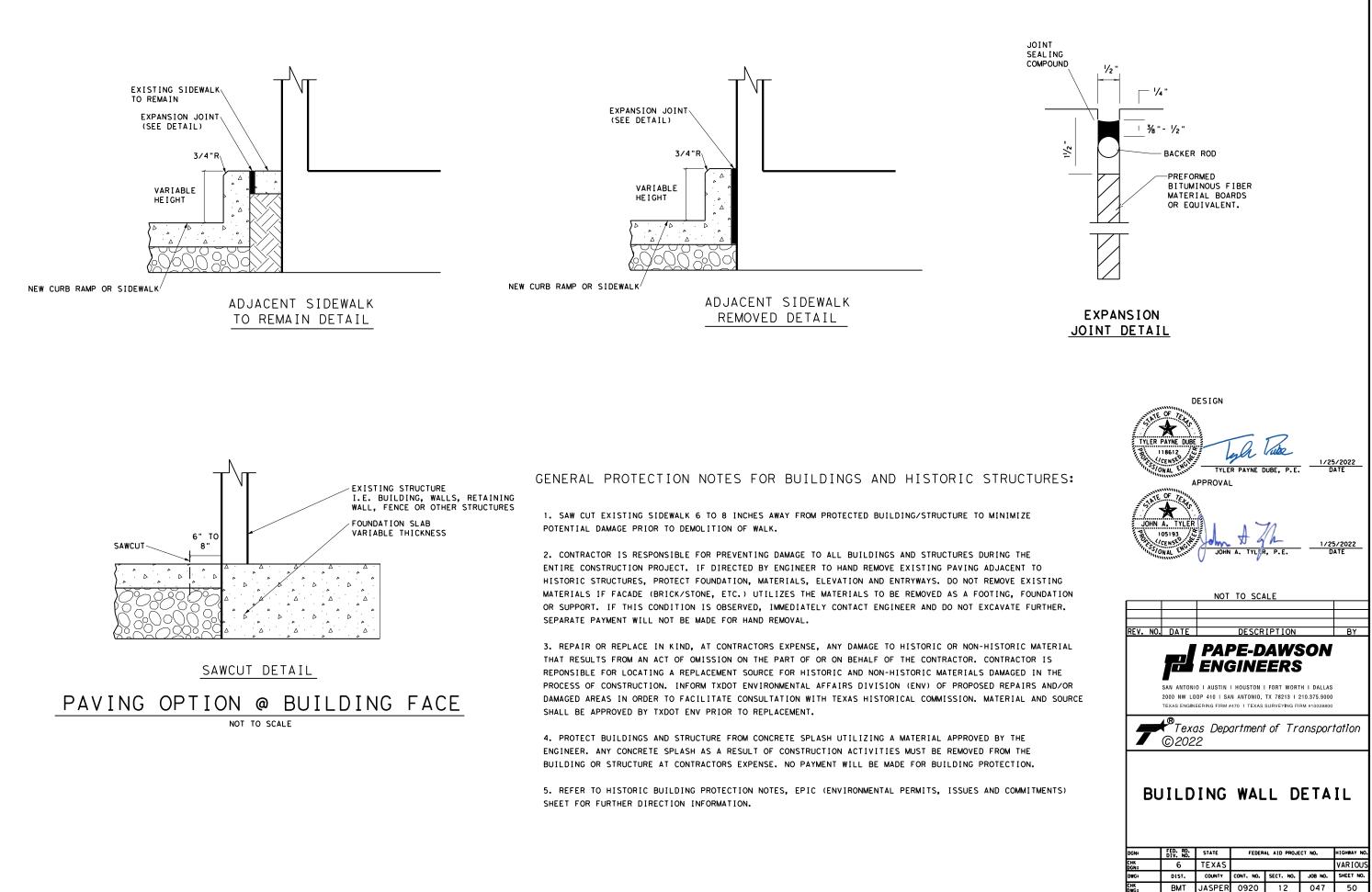
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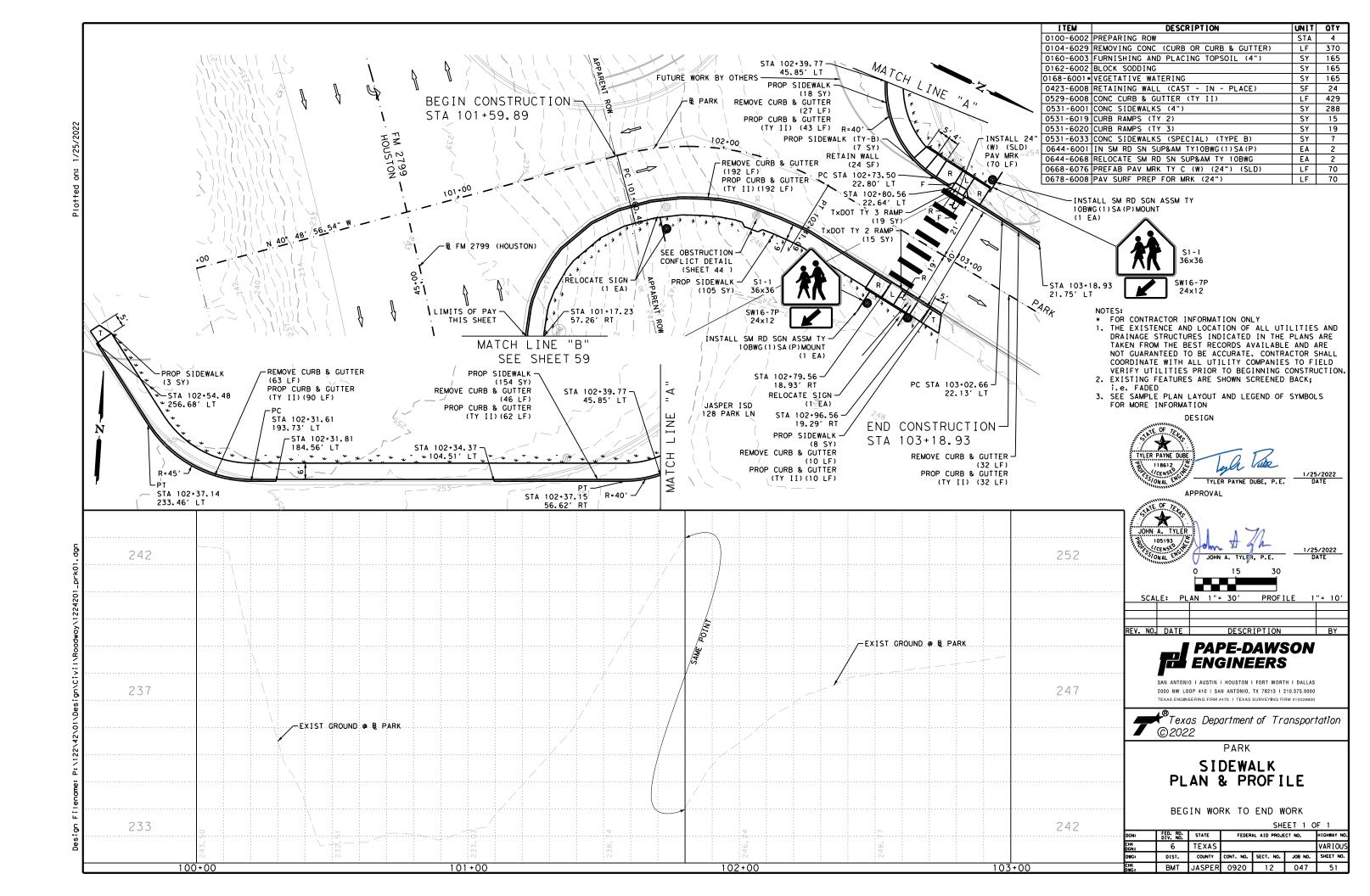


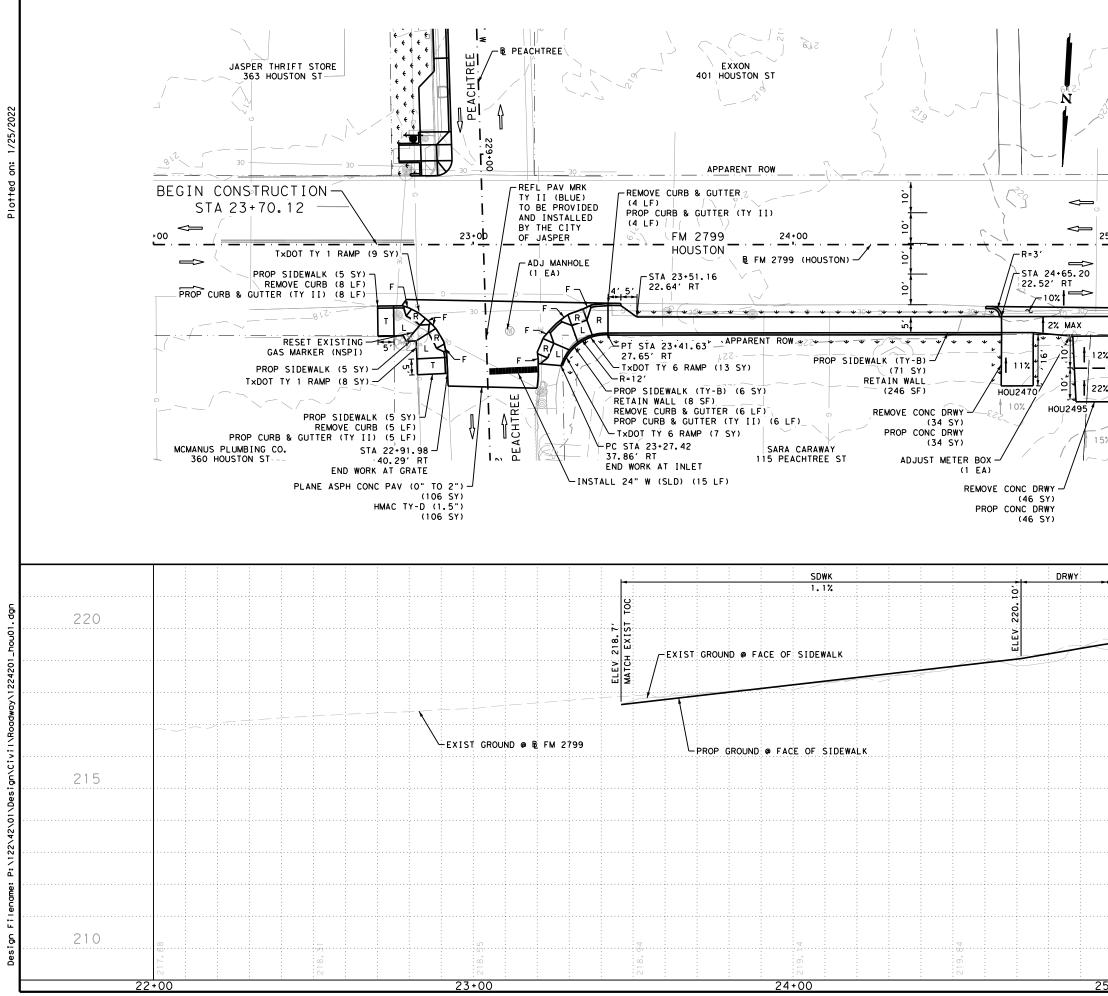
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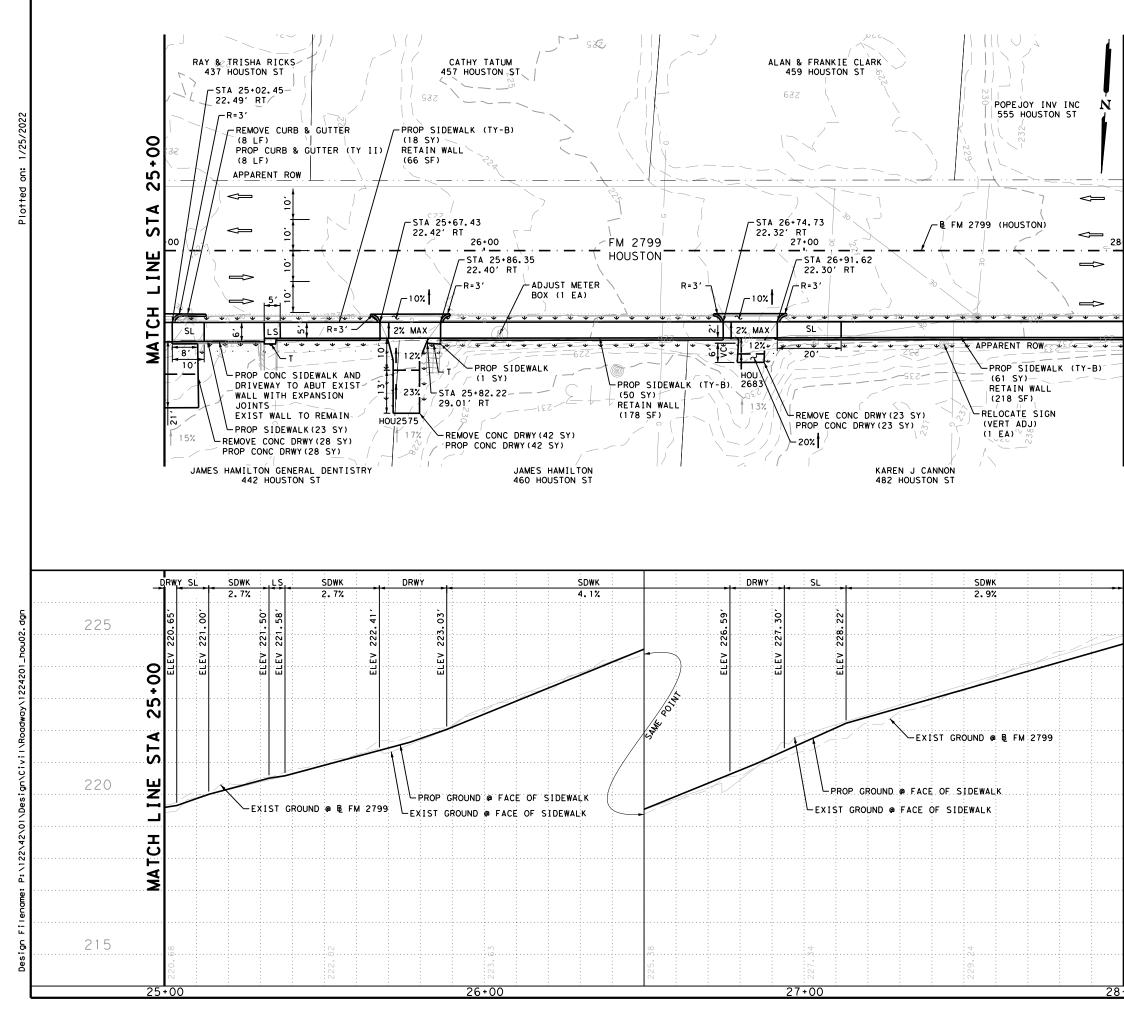




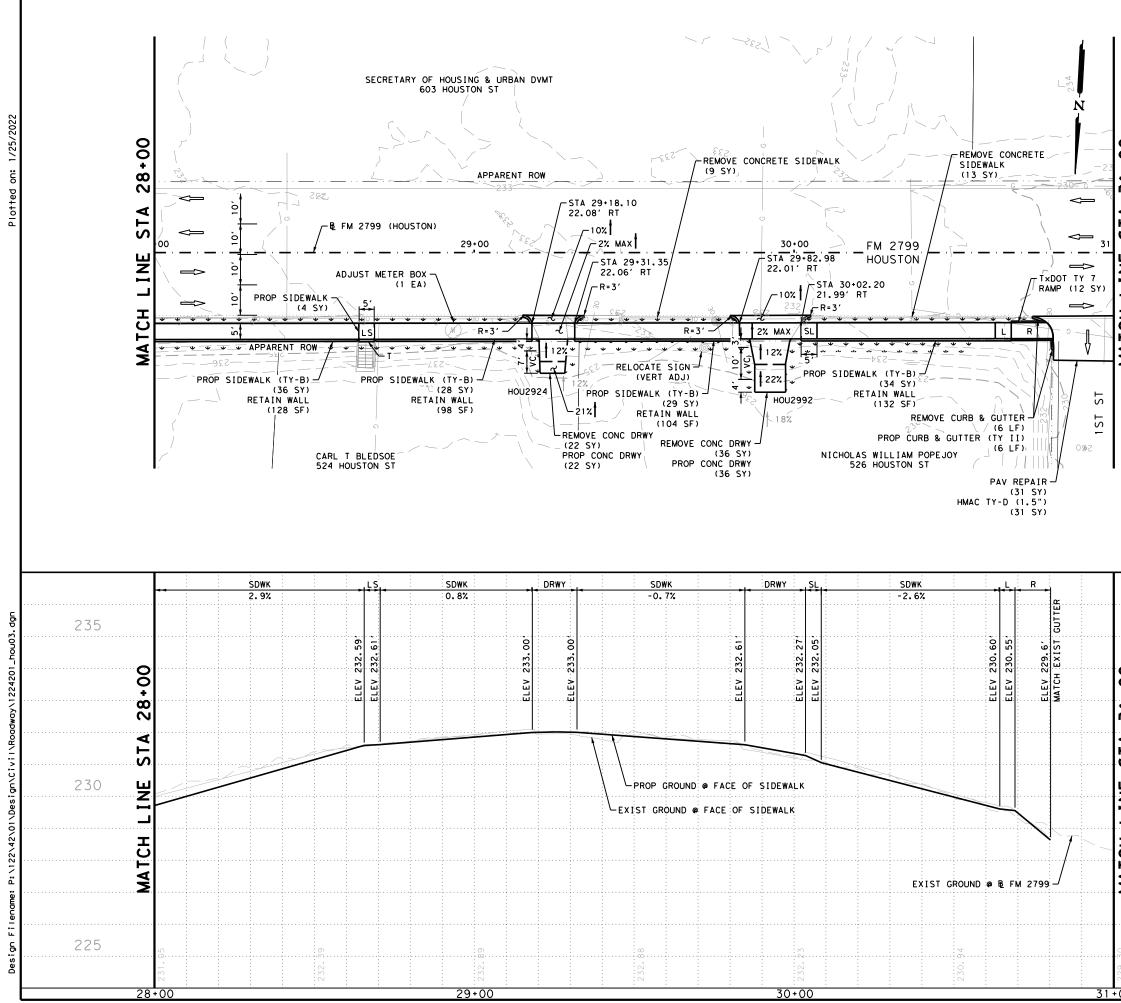




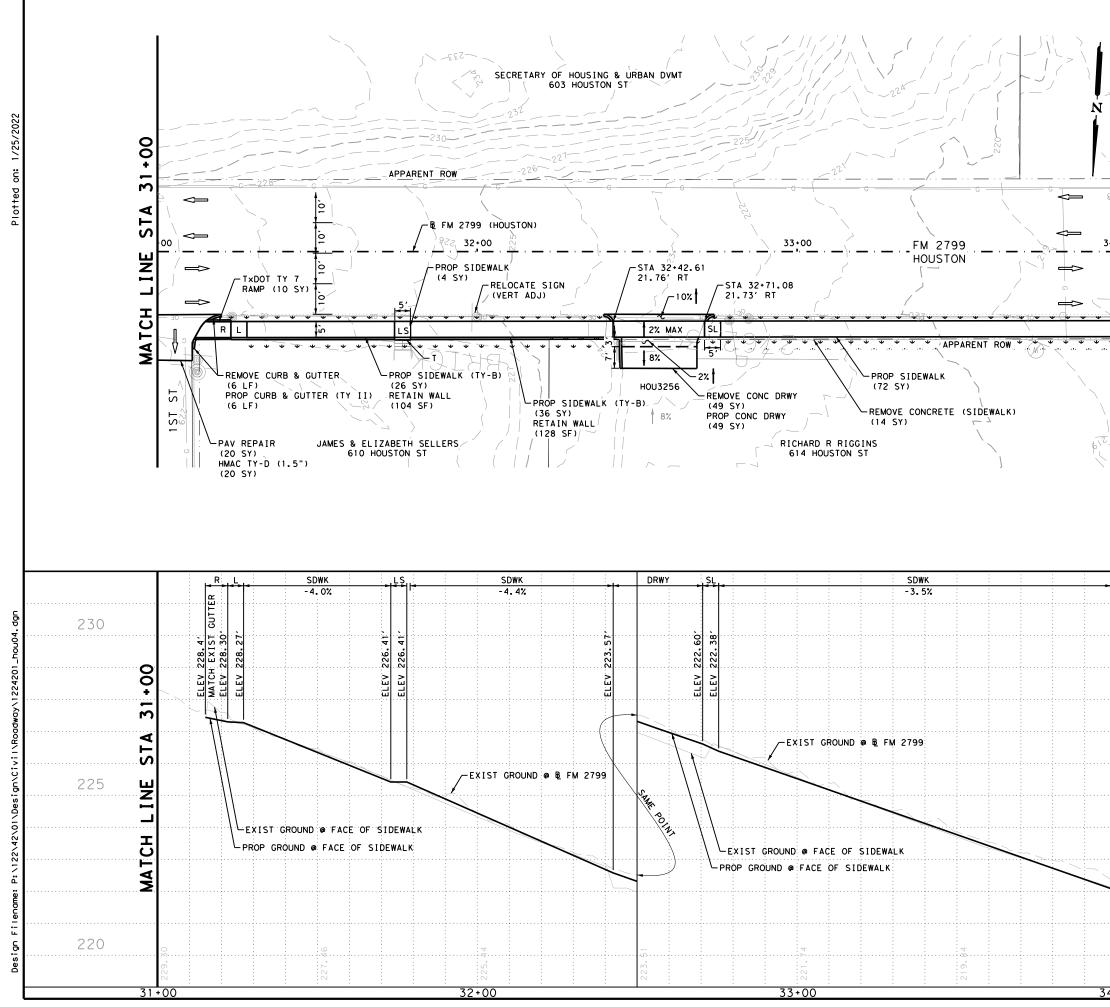
		ITEM	DESCRIPTION		011
			PREPARING ROW	STA	2
_			REMOVING CONC (DRIVEWAYS)	SY	80
			REMOVING CONC (CURB OR CURB & GUTTER)	LF	23
~		-	FURNISHING AND PLACING TOPSOIL (4")	SY	111
			BLOCK SODDING	SY	111
			VEGETATIVE WATERING	SY SY	111
			PLANE ASPH CONC PAV(0" TO 2") RETAINING WALL (CAST - IN - PLACE)	SF	106 254
1			ADJUSTING MANHOLES	EA	234
2			CONC CURB & GUTTER (TY II)		23
2			DRIVEWAYS (CONC)	SY	80
ſ	0		CONC SIDEWALKS (4")	SY SY	15
- 1	5+00		CURB RAMPS (TY 1)	SY	17
	+		CURB RAMPS (TY 6)	SY	20
	ц С		CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	77
	N	0668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	15
	1	0678-6008	PAV SURF PREP FOR MRK (24")	LF	15
	ΤA	3076-6066*	TACK COAT	SY	106
	ร	3076-6072*	D-GR HMA TY-D PG 76-22 (EXEMPT)	SY	106
25	••	7196-6068	ADJUST METER BOX	EA	1
	لىا				
2%	MATCH LIN		NOTES: * FOR CONTRACTOR INFORMATION ONLY 1. THE EXISTENCE AND LOCATION OF ALL U DRAINAGE STRUCTURES INDICATED IN TH TAKEN FROM THE BEST RECORDS AVAILAB NOT GUARANTEED TO BE ACCURATE. CONT COORDINATE WITH ALL UTILITY COMPANI VERIFY UTILITIES PRIOR TO BEGINNING 2. EXISTING FEATURES ARE SHOWN SCREENE i.e. FADED 3. SEE SAMPLE PLAN LAYOUT AND LEGEND O FOR MORE INFORMATION DESIGN THER PAYNE DUBE 118612 TYLER PAYNE DUBE TYLER PAYNE DUBE, P.T APPROVAL	IE PLANS ILE AND A RACTOR S ES TO FI CONSTRU D BACK; F SYMBOL	ARE RE HALL ELD CTION.
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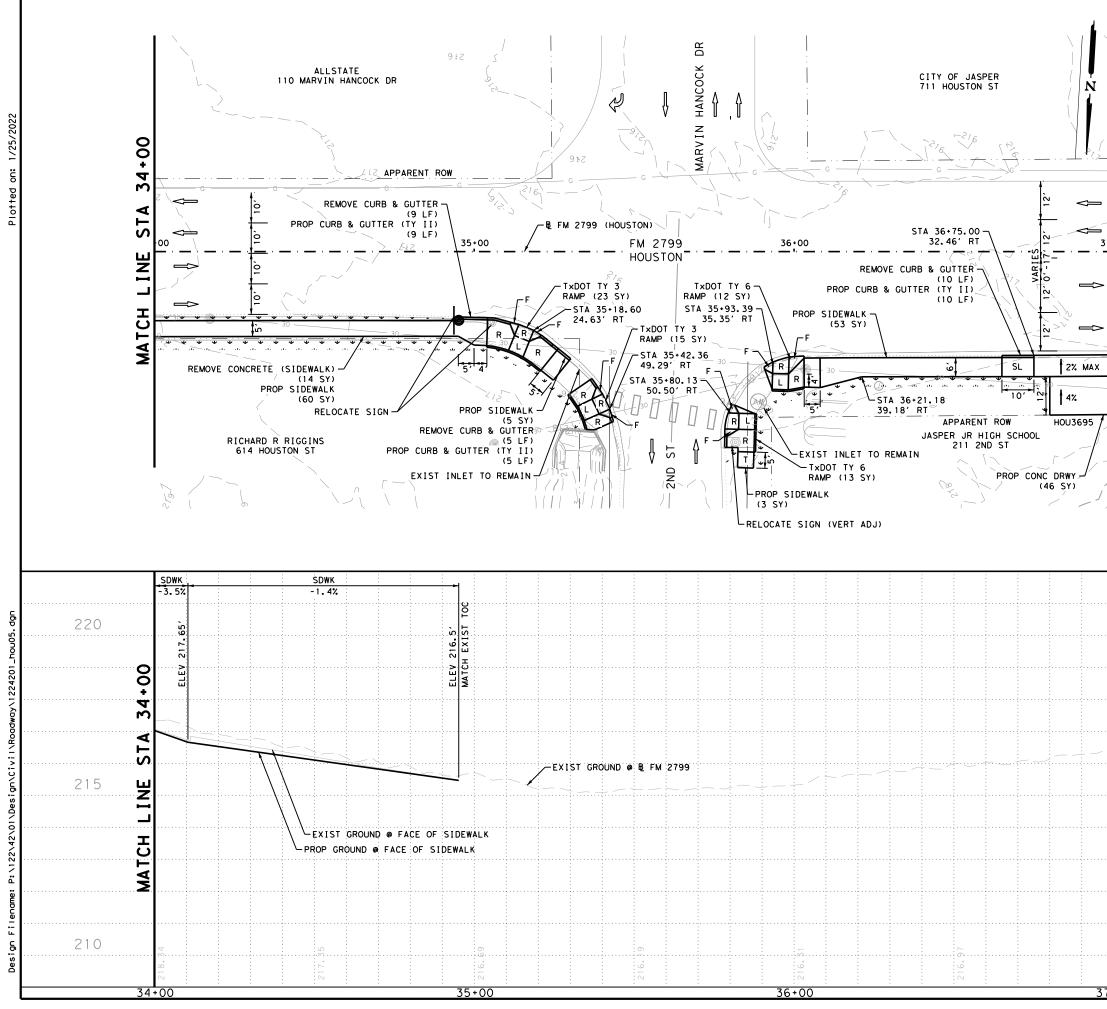
		17514	05560107101		074
		1TEM	DESCRIPTION PREPARING ROW	UNIT STA	<u>QTY</u> 3
			REMOVING CONC (DRIVEWAYS)	SY	93
			REMOVING CONC (CURB OR CURB & GUTTER)	LF	8
				SY	
			FURNISHING AND PLACING TOPSOIL (4") BLOCK SODDING	SY SY	166 166
				-	
			VEGETATIVE WATERING	SY SF	166 462
			RETAINING WALL (CAST - IN - PLACE)	-	
			CONC CURB & GUTTER (TY II)	LF	8
			DRIVEWAYS (CONC)	SY	93
			CONC SIDEWALKS (4")	SY	24
	$\sim$		CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	129
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			COORDINATE WITH ALL UTILITY COMPANIES		
			VERIFY UTILITIES PRIOR TO BEGINNING		JCTION.
			2. EXISTING FEATURES ARE SHOWN SCREENED i.e. FADED	BACK;	
			3. SEE SAMPLE PLAN LAYOUT AND LEGEND OF	SYMBOL	<u>د</u>
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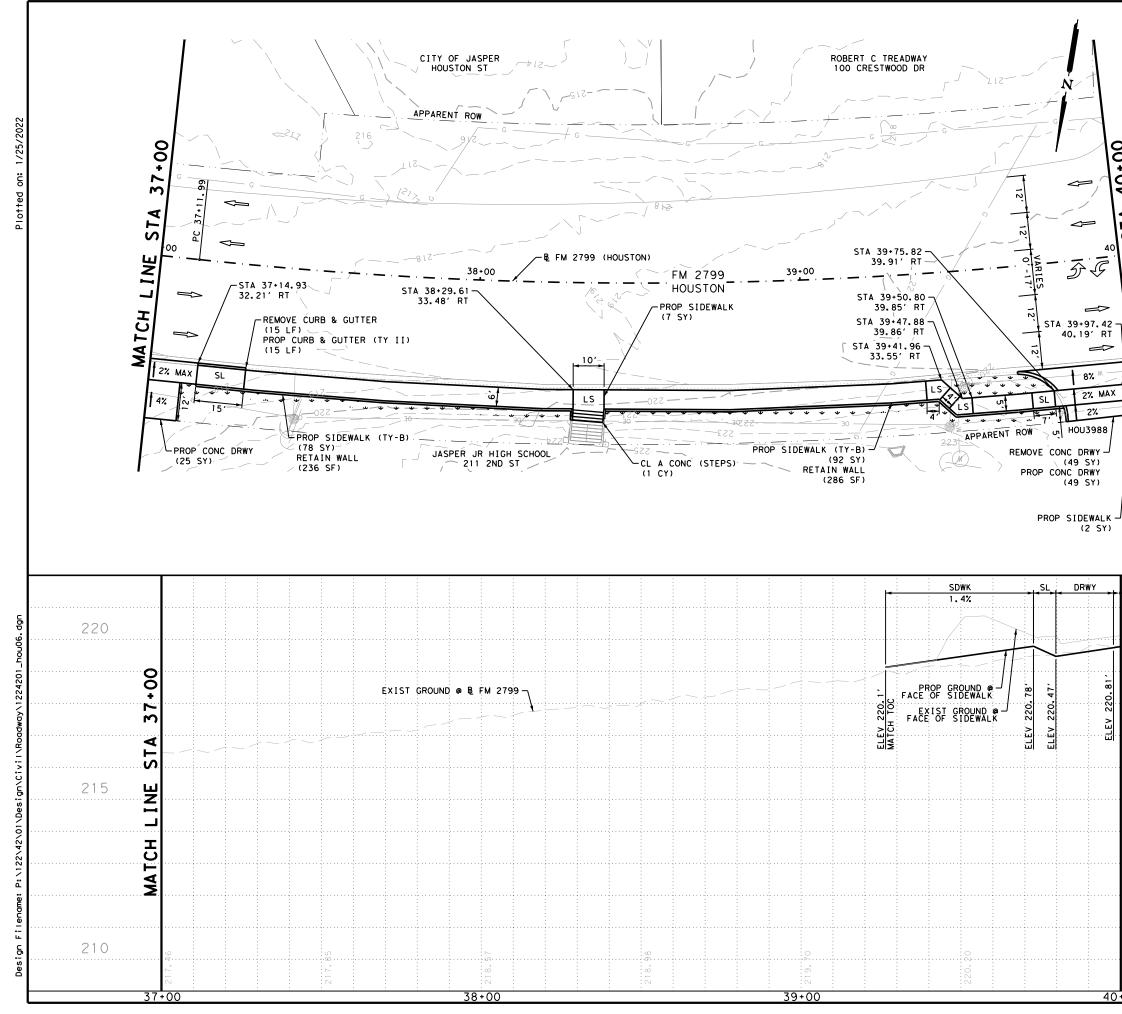
ITEM         DESCRIPTION           0100-6002         PREPARING ROW           0104-6015         REMOVING CONC (SIDEWALKS)           0104-6017         REMOVING CONC (DRIVEWAYS)           0104-6029         REMOVING CONC (CURB OR CUR           0160-6003         FURNISHING AND PLACING TOP           0162-6002         BLOCK SODDING           0168-6001*         VEGETATIVE WATERING	UNIT OTY
0104-6015 REMOVING CONC (SIDEWALKS) 0104-6017 REMOVING CONC (DRIVEWAYS) 0104-6029 REMOVING CONC (CURB OR CUR 0160-6003 FURNISHING AND PLACING TOP 0162-6002 BLOCK SODDING	STA 3
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0160-6003 FURNISHING AND PLACING TOP 0162-6002 BLOCK SODDING	
0162-6002 BLOCK SODDING	
UIDO-DUUI*IVEGEIAIIVE WAIEKING	SY 145
AZEL COOC ELEVIDLE DIVENENT CTOURTUR	SY 145
0351-6006 FLEXIBLE PAVEMENT STRUCTUR	
0423-6008 RETAINING WALL (CAST - IN	
0529-6008 CONC CURB & GUTTER (TY II)	LF 6
0530-6004 DRIVEWAYS (CONC)	SY 58
• 0531-6024 CURB RAMPS (CONC) • 0531-6023 CONC SIDEWALKS (4") 0531-6023 CONC SIDEWALKS (SPECIAL) (	SY 4
0531-6024 CURB RAMPS (TY 7)	SY 12
3 * 0531-6033 CONC SIDEWALKS (SPECIAL) (	TYPE B) SY 127
	Y 10BWG EA 1
<b>10644-6068</b> <u>RELOCATE SM RD SN SUP&amp;AM T</u> 3076-6066* TACK COAT	SY 31
3076-6072*D-CD UNA TY-D DC 76-22 (EV	
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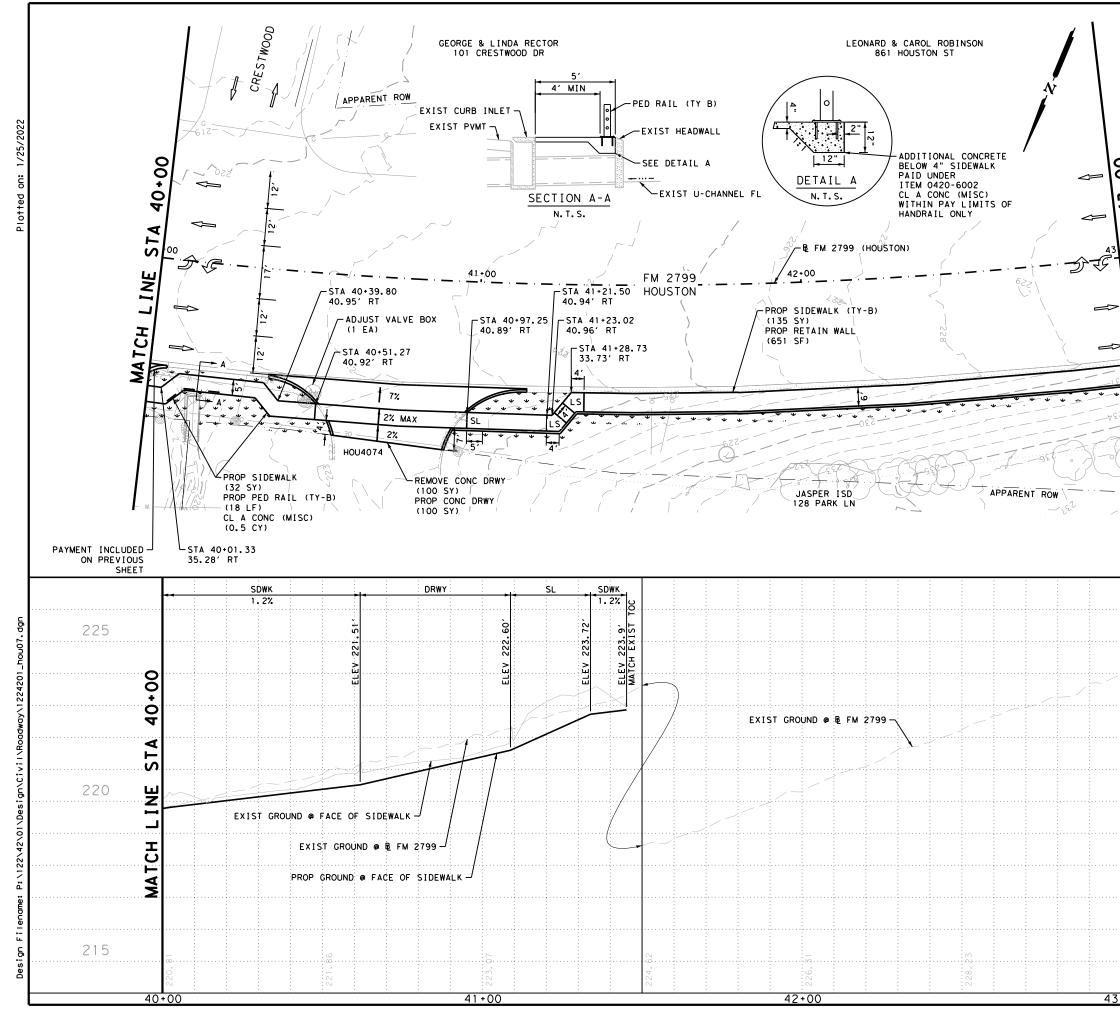
	I TEM DESCRIPTION	UNIT	QTY
	0100-6002 PREPARING ROW	STA	3
	0104-6015 REMOVING CONC (SIDEWALKS)	SY	14
1	0104-6017 REMOVING CONC (DRIVEWAYS)	SY	49
	0104-6029 REMOVING CONC (CURB OR CURB & GUTTER)	LF	6
	0160-6003 FURNISHING AND PLACING TOPSOIL (4")	SY	145
	0162-6002 BLOCK SODDING	SY	145
	0168-6001×VEGETATIVE WATERING	SY	145
	0351-6006 FLEXIBLE PAVEMENT STRUCTURE REPAIR(10")	SY	20
	0423-6008 RETAINING WALL (CAST - IN - PLACE)	SF	232
	0529-6008 CONC CURB & GUTTER (TY II)	LF	6
	0530-6004 DRIVEWAYS (CONC)	SY	49
	0531-6001 CONC SIDEWALKS (4")	SY	76
١¥	0531-6024 CURB RAMPS (TY 7)	SY	10
٥L	0531-6033 CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	62
٦Ň	0644-6068 RELOCATE SM RD SN SUP&AM TY 10BWG	EA	1
31	3076-6066* TACK COAT	SY	20
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	2. EXISTING FEATURES ARE SHOWN SCREENED		
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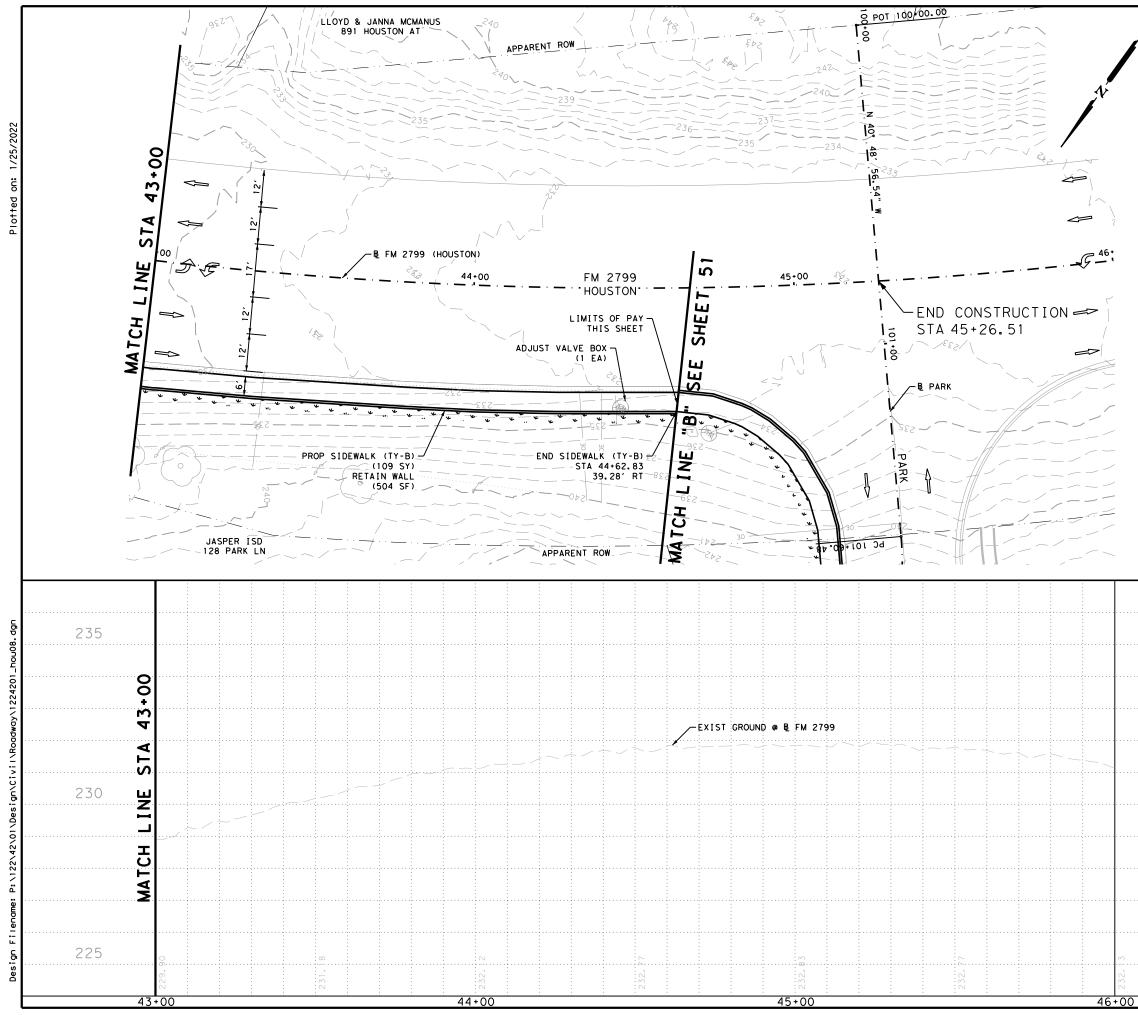
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	0104-6029							LF	24
	0160-6003				ING TOP	301L (4	1")	SY SY	118 118
	0168-6001 *							SY	118
	0529-6008				(TY II)			LF	24
	0530-6004	DRIVEWA	YS (CO	NC)				SY	46
	0531-6001							SY	121
	0531-6020							SY	38
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A 3	220		JOHN SCA			R PAYNE C	R, P.E. R, P.E. 30 PROFI PROFI PROFI	- <u>1/25</u> - <u>1/25</u> D/	5/2022 ATE
STA 3	220		JOHN SCA	A. TYLER OGIOSIONAL LE: PL DATE SAN ANTONI		R PAYNE C A. TYLE 15 30' DESCR PE-D BINE	R, P.E. 30 PROFI	- 1/25 - 1/25 D/ ILE 1'	5/2022 ATE
STA 3			JOHN SCA	LE: PL DATE DATE		R PAYNE C	ROUBE, P.E. 30 PROF I PROF I	- 1/25 - 1/25 D/ ILE 1 SON	5/2022 ATE
STA 3			JOHN SCA	LE: PL DATE SAN ANTONI 2000 NW LOIN SAN ANTONI 2000 NW LOIN		R PAYNE C	A, P.E. A, P.E. BODE PROFI PROFI PROFI I FORT WORT X 78213 1 2 SURVEYING FI	С D/ 1/25 D/ ILE 1' SON SON RM 10028800	5/2022 ATE "= 10' BY
STA 3			JOHN SCA	LE: PL DATE SAN ANTONIU 2000 NW LIC SAN ANTONIU 2000 NW LIC FEASE BOOL		R PAYNE C	R, P.E. 30 PROF I PROF I	С D/ 1/25 D/ ILE 1' SON SON RM 10028800	5/2022 ATE "= 10' BY
LINE STA 3			JOHN SCA	LE: PL DATE SAN ANTONI 2000 NW LOIN SAN ANTONI 2000 NW LOIN		R PAYNE C	A, P.E. A, P.E. BODE PROFI PROFI PROFI I FORT WORT X 78213 1 2 SURVEYING FI	С D/ 1/25 D/ ILE 1' SON SON RM 10028800	5/2022 ATE "= 10' BY
LINE STA 3			JOHN SCA	LE: PL DATE SAN ANTONIU 2000 NW LIC SAN ANTONIU 2000 NW LIC FEASE BOOL		R PAYNE C A. TYLE 15 30' DESCR PE-D SINE I HOUSTON N ANTONIO, N AN	PROF I PROF I	С D/ 1/25 D/ ILE 1' SON SON RM 10028800	5/2022 ATE "= 10' BY
LINE STA 3			JOHN SCA	LE: PL DATE SAN ANTONIU 2000 NW LIC SAN ANTONIU 2000 NW LIC FEASE BOOL		R PAYNE C A. TYLE 15 30' DESCR PE-D DESCR PE-D DESCR ANTONIO, N ANTONIO, N ANTONIO, M 275	A, P.E. 30 PROF I PROF I P	С D/ 1/25 D/ ILE 1' SON SON RM 10028800	5/2022 ATE "= 10' BY
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STA 3			JOHN SCA	LE: PL DATE SAN ANTONI 2000 NW LC EXAS ENGIN		R PAYNE C A. TYLE 15 15 15 15 15 15 15 15 15 15	A, P.E. A, P.E. B,	. D/  [LE] SON ПН I DALLAS 210.375.9000 RM #10028800 ansport	5/2022 ATE "= 10' BY
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LINE STA 3			JOHN SCA	A. THER 105193 2014 DATE DATE SAN ANTONI 2000 NW LC TEXAS ENGIN C 2022		R PAYNE C A. TYLE 15 15 15 15 15 15 15 15 15 15	ALK ROFI	LE	5/2022 ATE "= 10' BY
LINE STA 3			JOHN SCA	A. THER 105193 2014 DATE DATE SAN ANTONI 2000 NW LC TEXAS ENGIN C 2022		R PAYNE C A. TYLE 15 15 15 15 15 15 15 15 15 15	A, P.E. A, P.E. B,	LE	5/2022 ATE "= 10' BY
LINE STA 3	215		JOHN SCA	A. THER 105193 2014 DATE DATE SAN ANTONI 2000 NW LC TEXAS ENGIN C 2022		R PAYNE C A. TYLE 15 15 15 15 15 15 15 15 15 15	ALK ROFI STA 37	LE	xre x/2022 ATE 
LINE STA 3			JOHN SCA	A. THER 105193 2014 DATE DATE SAN ANTONI 2000 NW LC TEXAS ENGIN C 2022		R PAYNE C A. TYLE 15 30' DESCR PE-D BINE 1 HOUSTON ANTONIO, M 27S DEWA 8 PF 0 TO S	ALK ROFI STA 37	LE 1/25 D/ IILE 1/ SON IN 1 DALLAS 210.375.9000 RM #10028800 ansport LE 2+00 EET 5 0	xre x/2022 ATE 
MATCH LINE STA 3	215			LE: PL DATE DATE DATE SAN ANTONIC 2000 NW LC CO 202 PL STA		R PAYNE C A. TYLE 15 30' DESCR PE-D BINE 1 HOUSTON ANTONIO, M 27S DEWA 8 PF 0 TO S	ALK ROFI STA 37 STA 37 SHE	LE 1/25 D/ IILE 1/ SON IN 1 DALLAS 210.375.9000 RM #10028800 ansport LE 2+00 EET 5 0	5/2022 are BY tation
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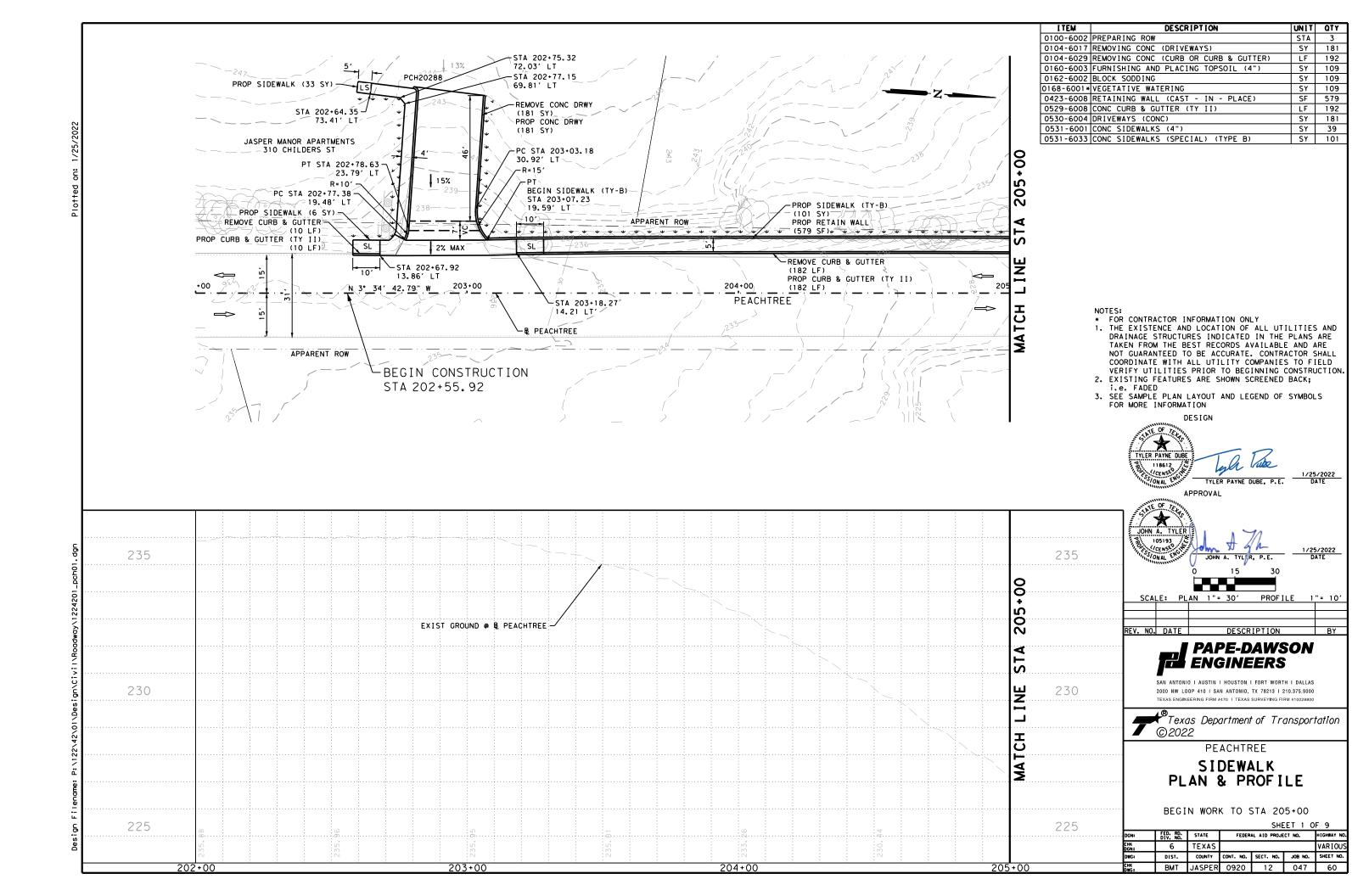
ITEM	DESCRIPTION UNIT OTY								
	PREPARING ROW STA 3								
	REMOVING CONC (DRIVEWAYS) SY 49								
	REMOVING CONC (CURB OR CURB & GUTTER) LF 15								
	FURNISHING AND PLACING TOPSOIL (4") SY 99 BLOCK SODDING SY 99								
	VEGETATIVE WATERING SY 99								
	CL A CONC (STEPS) CY 1.0								
	RETAINING WALL (CAST - IN - PLACE) SF 522								
	CONC CURB & GUTTER (TY II) LF 15								
	DRIVEWAYS (CONC) SY 74								
	CONC SIDEWALKS (4") SY 9								
NOTES: * FOR CONTRACTOR INFORMATION ONLY 1. THE EXISTENCE AND LOCATION OF ALL UTILITIES DRAINAGE STRUCTURES INDICATED IN THE PLANS TAKEN FROM THE BEST RECORDS AVAILABLE AND A NOT GUARANTEED TO BE ACCURATE. CONTRACTOR S COORDINATE WITH ALL UTILITY COMPANIES TO FI VERIFY UTILITIES PRIOR TO BEGINNING CONSTRU 2. EXISTING FEATURES ARE SHOWN SCREENED BACK; i.e. FADED 3. SEE SAMPLE PLAN LAYOUT AND LEGEND OF SYMBOL FOR MORE INFORMATION DESIGN UTILITIES THE ALL UTILITY COMPANIES									
<u>SDWK</u> 1.2%	APPROVAL								
220	0 15 30								
0	SCALE: PLAN 1"= 30' PROFILE 1"= 10'								
STA 40+00	SCALE: PLAN 1"= 30' PROFILE 1"= 10'								
l <u>t</u>									
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4	REV. NO. DATE DESCRIPTION BY								
	PAPE-DAWSON								
15	ENGINEERS								
	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS								
ш 215	2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000								
	TEXAS ENGINEERING FIRM #470   TEXAS SURVEYING FIRM #10028800								
VATCH LINE	A ®								
	Texas Department of Transportation								
1	✓ ©2022								
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lo	FM 2799								
12	SIDEWALK								
3									
1	PLAN & PROFILE								
	STA 37+00 TO STA 40+00								
_ 210	SHEET 6 OF 8								
• 60 • • • • • • • • • • • • • • • • • •	DGN: FED. RD. STATE FEDERAL AID PROJECT NO. HIGHWAY NO.								
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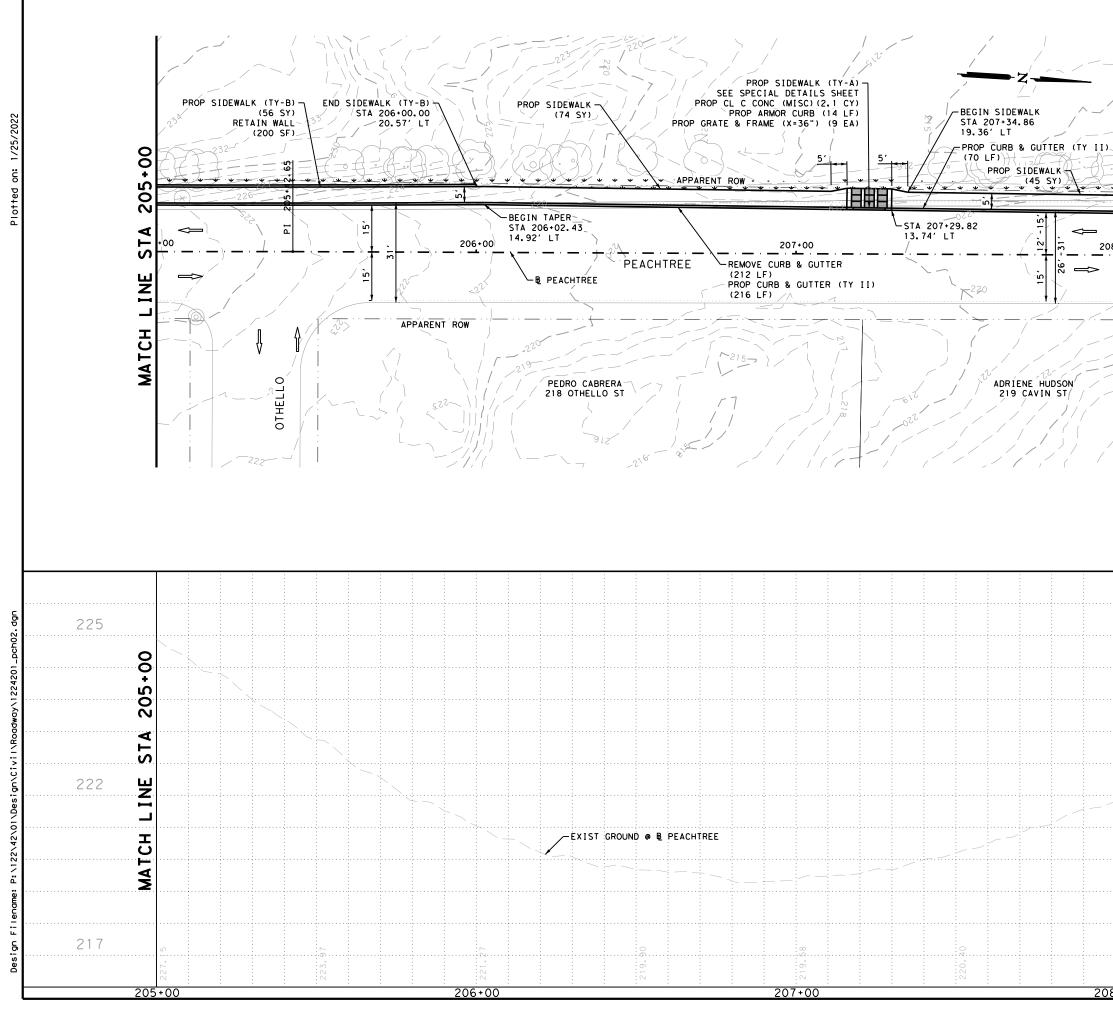


	ITEM			DESCF	PIPTION			UNIT	QTY
	0100-6002							STA	3
	0104-6017							SY	100
	0160-6003	FURNISH	ING AN	D PLACI	NG TOP	SOIL (4	1")	SY	156
	0162-6002							SY	156
	0168-6001*							SY	156
	0420-6002							CY	0.5
	0423-6008	RETAINI	NG WAL	L (CAST	- IN	- PLACE	)	SF	651
	0450-6048	RAIL (F	IANDRA I	L) (TY E	3)			LF	18
	0530-6004							SY	100
	0531-6001							SY	32
	0531-6033				CIAL) (	TYPE B	1	SY	135
	7196-6011							EA	135
0								1 - 7	
MATCH LINE STA 43+00		1. THE DRA TAKI NOT COOI VER 2. EXI i.e 3. SEE	EXISTE INAGE S EN FROM GUARAN RDINATE IFY UTI STING F SAMPLE	STRUCTU M THE B NTEED T E WITH ILITIES FEATURE D E PLAN INFORMA	D LOCAT RES INE EST REC O BE AC ALL UTI PRIOR S ARE S LAYOUT TION DESIGN	TION OF DICATED CORDS A CCURATE ILITY C TO BEG SHOWN S	ALL UT IN THE VAILABL . CONTR OMPANIE INNING CREENED GEND OF	PLANS E AND A ACTOR S S TO FI CONSTRU BACK;	ARE SHALL ELD JCTION.
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°. ⁰ MATC	220		DGN: CHK	STA FED. RD. DIV. NO.	<b>AN</b> 40+0	<b>&amp; РГ</b> о то :	<b>ROF I</b> 5TA 43	+00 EET 7 0	HIGHWAY NO.
ං ග ග	220		CHK DGN:	STA <u>FED:</u> RD: 6	40+0 state texas	& Pf	STA 43 SHE	+00 ET 70	HIGHWAY NO. VARIOUS
229. 90	220		CHK DGN: DWG:	STA FED. RD. DIV. NO. 6 DIST.	40+0 state TEXAS county	<b>8. Pf</b> 0 TO 1 <u>FEDER</u>	STA 43 SHE IAL AID PROJE	+ ОО ЕТ 7 О ст но. ЈОВ НО.	HIGHWAY NO. VARIOUS SHEET NO.
0	220		CHK DGN:	STA <u>FED:</u> RD: 6	40+0 state texas	& Pf	STA 43 SHE	+00 ET 70	HIGHWAY NO. VARIOUS

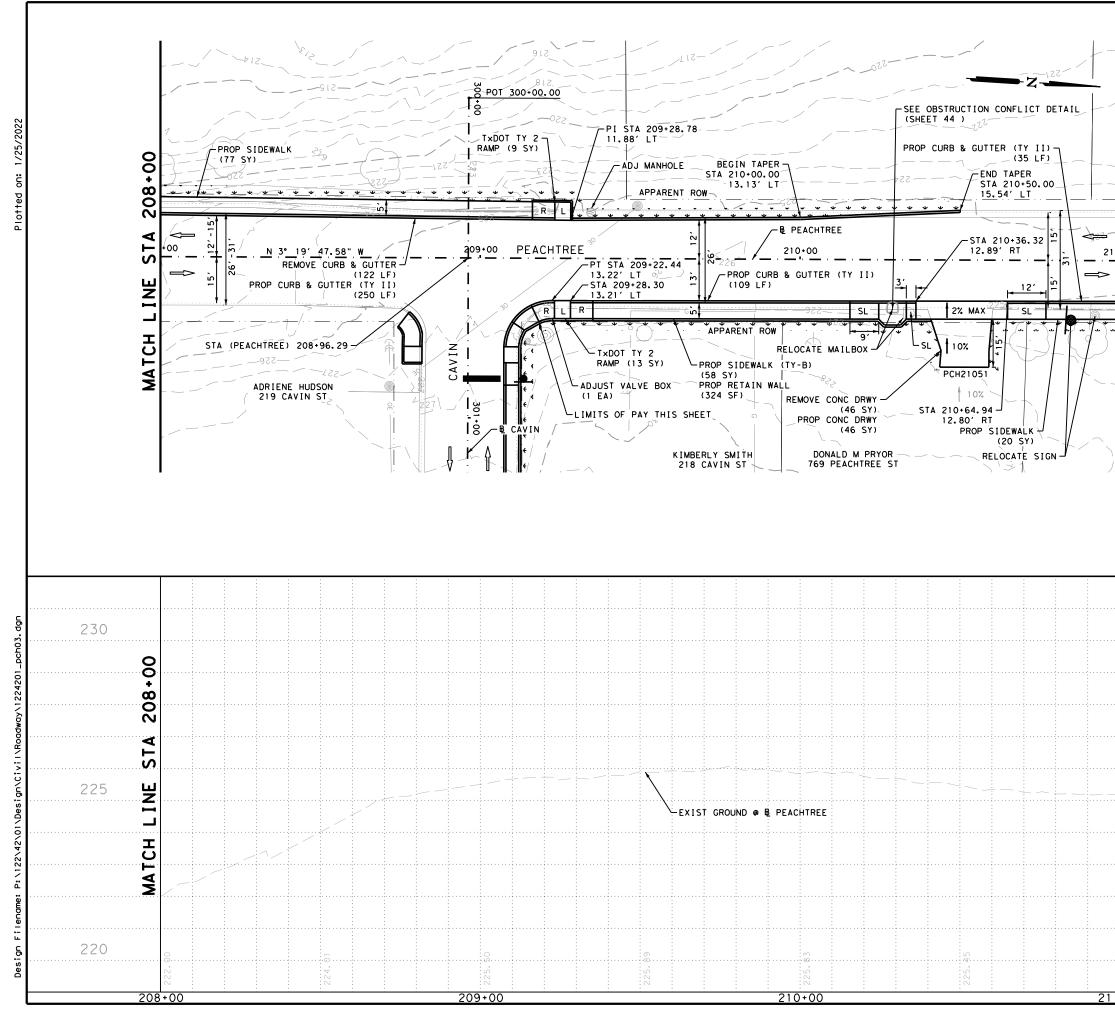


	ITEM							NIT	QTY
	0100-6002	PREDAD					-	STA	2
	0160-6002				NG TOPSO	11 (4")		SY	<u></u> 56
4	0162-6003				10 105 30	(4)		SY	56
	0162-6002							SY	56
	0423-6008				- IN -	PLACE)		SF	504
<b>F</b>	0531-6033							SY	109
7	7196-6011							EA	1
6 •									
		1. THE DRA TAK NOT COO VER 2. EXI i.e 3. SEE	CONTR/ EXIST INAGE S EN FROI GUARAI RDINATI IFY UT STING I FADEL SAMPLI MORE	ENCE AN STRUCTU M THE B NTEED T E WITH LITTES FEATURE D E PLAN INFORMA C PANNE DUBE PANNE	ESIGN	ON OF AL ATED IN DS AVAI JRATE. C TY COMP D BEGINN DWN SCRE	THE PLI LABLE AI ONTRACTA ANIES TO ING CON ENED BAI D OF SYN	ANS ND A OR S O FI STRU CK; MBOL	ARE RE HALL ELD CTION.
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			SCA	<u> PL</u>	<u>AN 1"= :</u>	F	PROFILE	<u> </u>	'= 10'
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			REV. NO.	DATE		DESCRIPT			BY
	230		<u>REV.</u> NO.	SAN ANTONI 2000 NW LO TEXAS ENGIN	D I AUSTIN I H OP 410 I SAN / EERING FIRM #470	E-DA INEE DUSTON I FOR NTONIO, TX 7 I TEXAS SURV	WS0 RS at worth I D. 8213 I 210.375 eying firm #10	ALLAS 5.9000 028800	
	230			SAN ANTONI 2000 NW LO TEXAS ENGIN	D I AUSTIN I H O I AUSTIN I H OP 410 I SAN / EERING FIRM #47C	E-DA INEE DUSTON I FOR NTONIO, TX 7 I TEXAS SURV	WS0 RS at worth I D. 8213 I 210.375 eying firm #10	ALLAS 5.9000 028800	
			T	SAN ANTONI 2000 NW LO TEXAS ENGIN C 202 PL	D I AUSTIN I H OP 410 I SAN / SEERING FIRM #470 D Depar 2 FM	E-DA DUSTON I FOR NTONIO, TX 7 I TEXAS SURV trment of 2799 EWAL PRC	K F ILE D WORK	ALLAS 5.9000 028800 <b>port</b>	ation
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<u></u>			7	SAN ANTONI 2000 NW LO TEXAS ENGIN C 202 PL STA	DI AUSTIN I H OP 410 I SAN J EERING FIRM #47 AS DEPAR FM SID AN & 43+00 STATE	E-DA DUSTON I FOR TONIO, TX 7 I TEXAS SURV trent of 2799 EWAL PRC TO EN	K F ILE D WORK	ALLAS 5.9000 port	ation = 8 HIGHRAY NO.
232. 13 //			7	SAN ANTONI 2000 NW LO TEXAS ENGIN C 202 PL ST/	A 43+00	E-DA DUSTON I FOR NTONIO, TX 7 I TEXAS SUMP trent of 2799 EWAL PRC TO EN FEDERAL AD	K DFILE D WORK SHEET	ALLAS 5.9000 port	ation

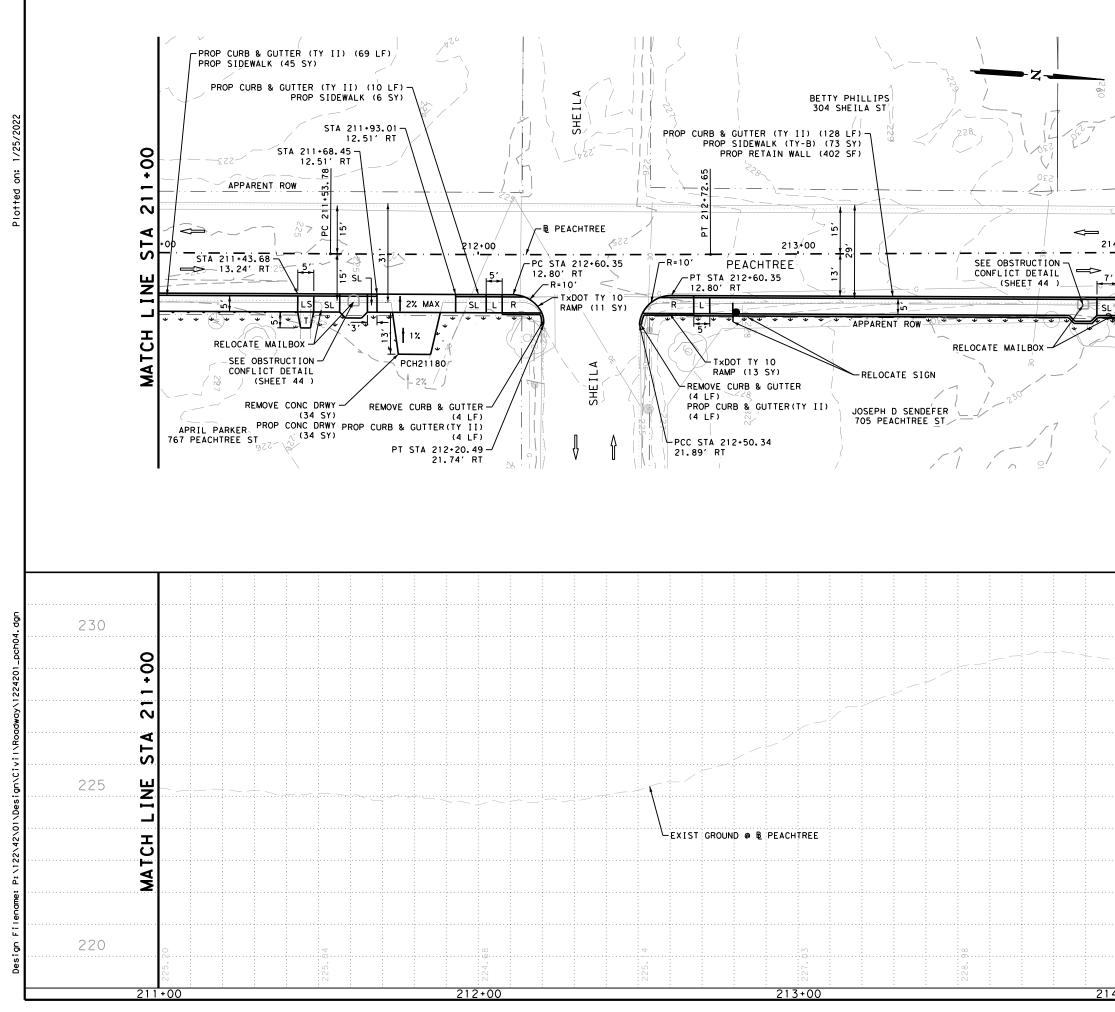




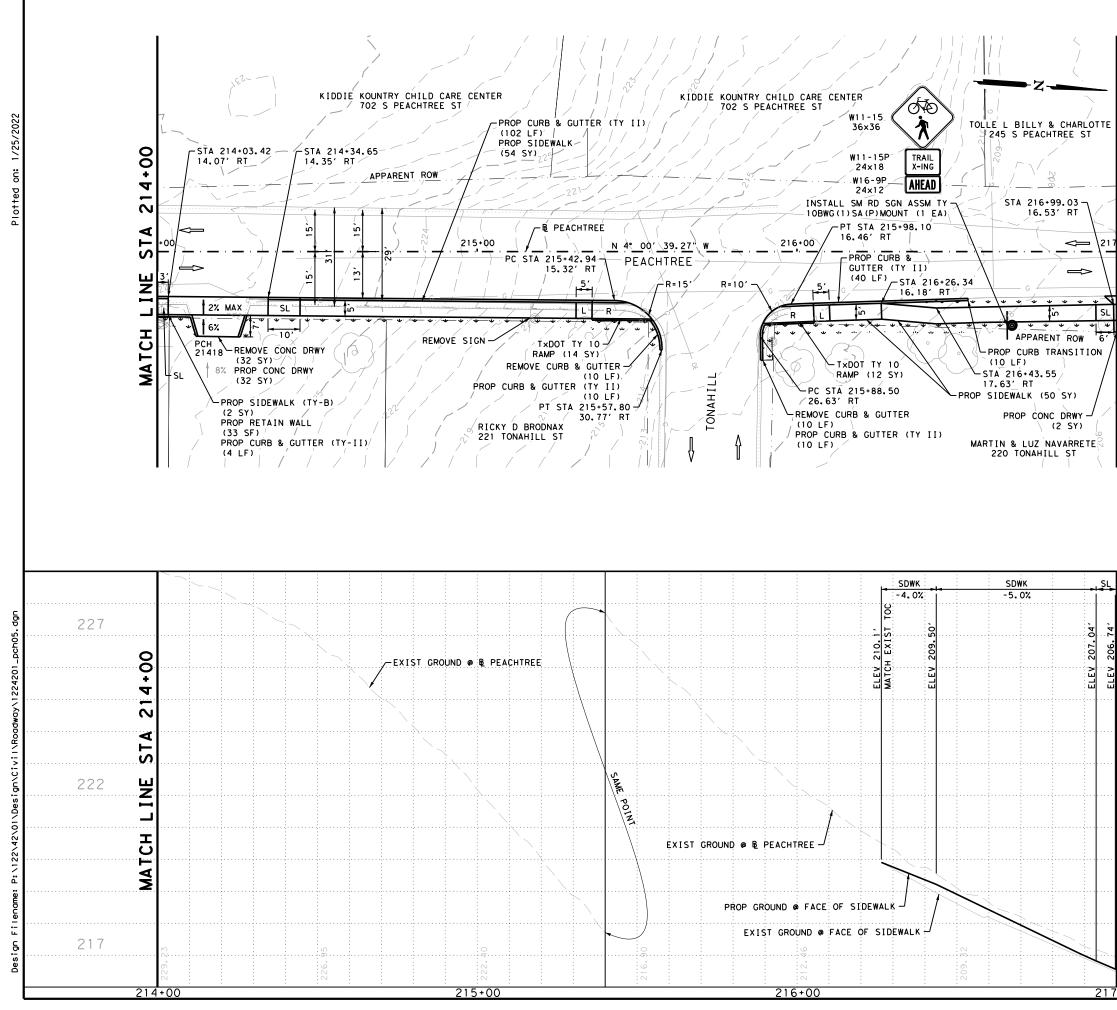
	ITEM			DESCR				UNIT	QTY
	0100-6002	PREPARING	ROW					STA	3
		REMOVING C						LF	212
1		FURNISHING		PLACI	NG TOP	SOIL (4	")	SY	105
		BLOCK SODD						SY	105
-		VEGETATIVE						SY	105
		CL C CONC			•••			CY	2.1
		RETAINING		(CAST	- IN	- PLACE)	SF	200
/		GRATE & FR CONC CURB			TY 11			EA LF	9
		CONC CURB							286
_		CONC CORB			ARMOR			SY	119
		CONC SIDEW						SY	56
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MATCH LIN		1	C	202. PL	PE SII AN	ACHTR DEWA & PF	ALK ROFI	LE 8+00	
MATCH LIN	217		C	<u>202</u> РL	2 PE SII AN 5 205+00	ACHTR DEWA & PF	ALK ROFI STA 203 SHE	LE 8+00 ET 2 0	
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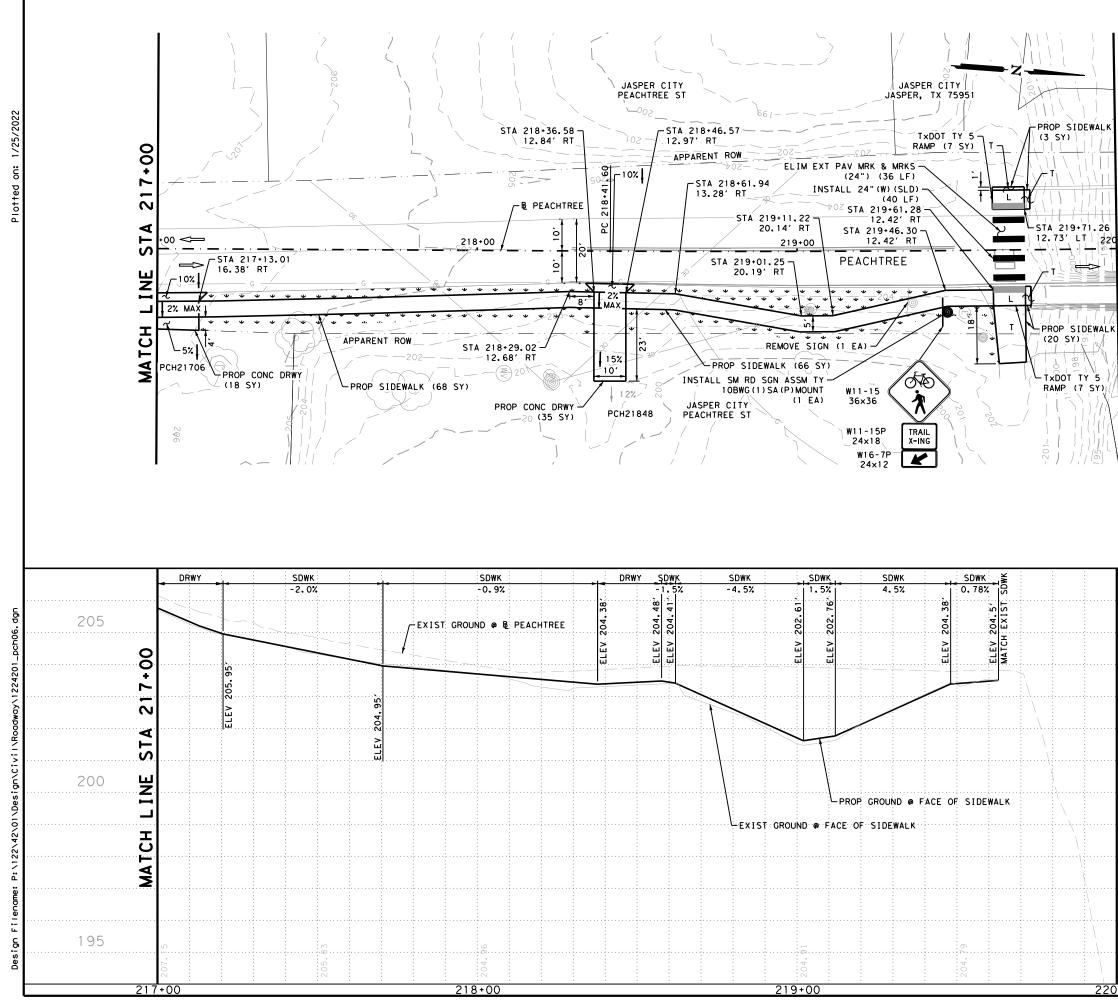
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			PREPARING RO					STA	3
			REMOVING CON		WAYS)			SY	46
1			REMOVING CON			3 & GUTT	ER)	LF	122
-			FURNISHING A					SY	159
			BLOCK SODDIN					SY	159
			VEGETATIVE W					SY	159
			RETAINING WA		- IN -	- PLACE)		SF	324
			ADJUSTING MA		•••			EA	1
			CONC CURB &					LF	394
			DRIVEWAYS (C					SY	46
			CONC SIDEWAL					SY	97
			CURB RAMPS (SY	22
	00+		CONC SIDEWAL						
-	0					ITPE B)		SY	58
	+		RELOCATE EXI			(100#0		EA	1
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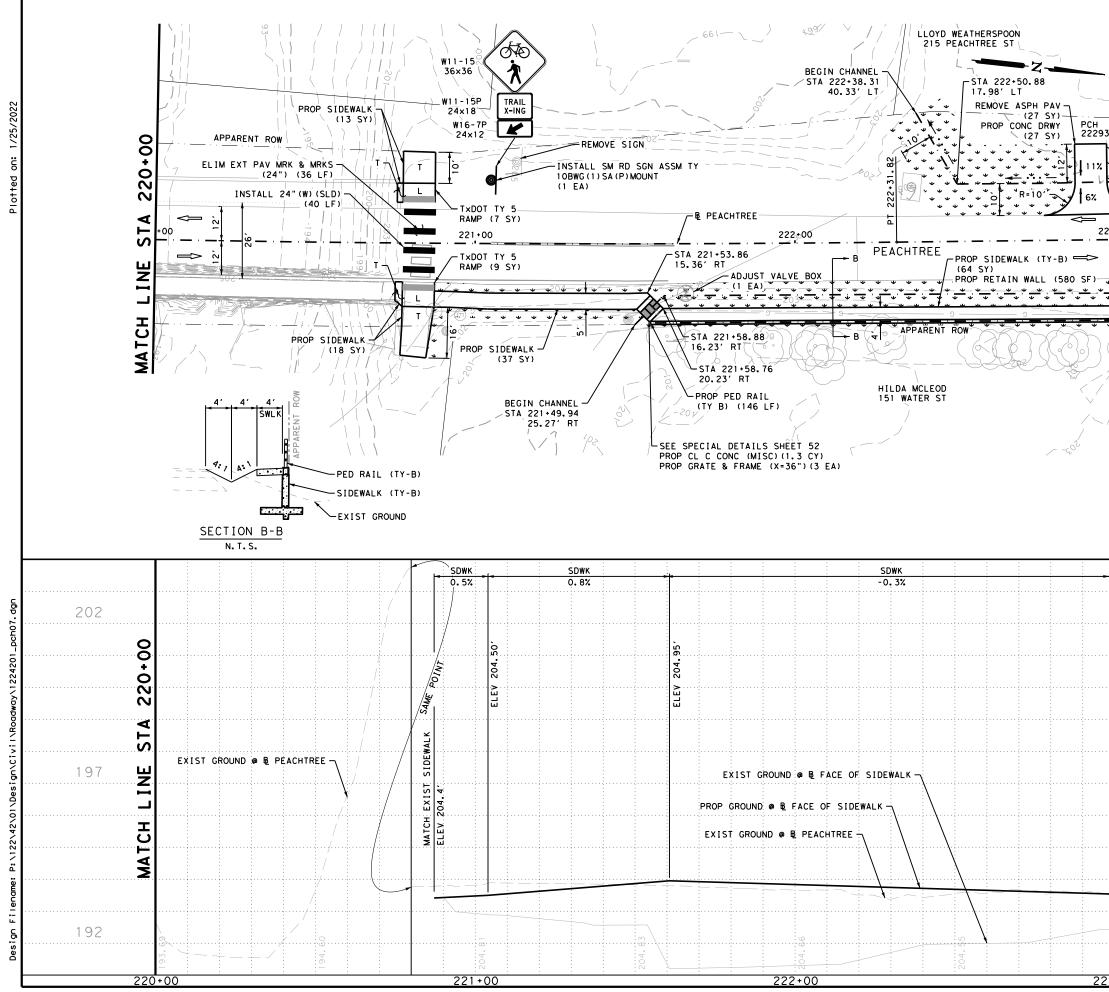
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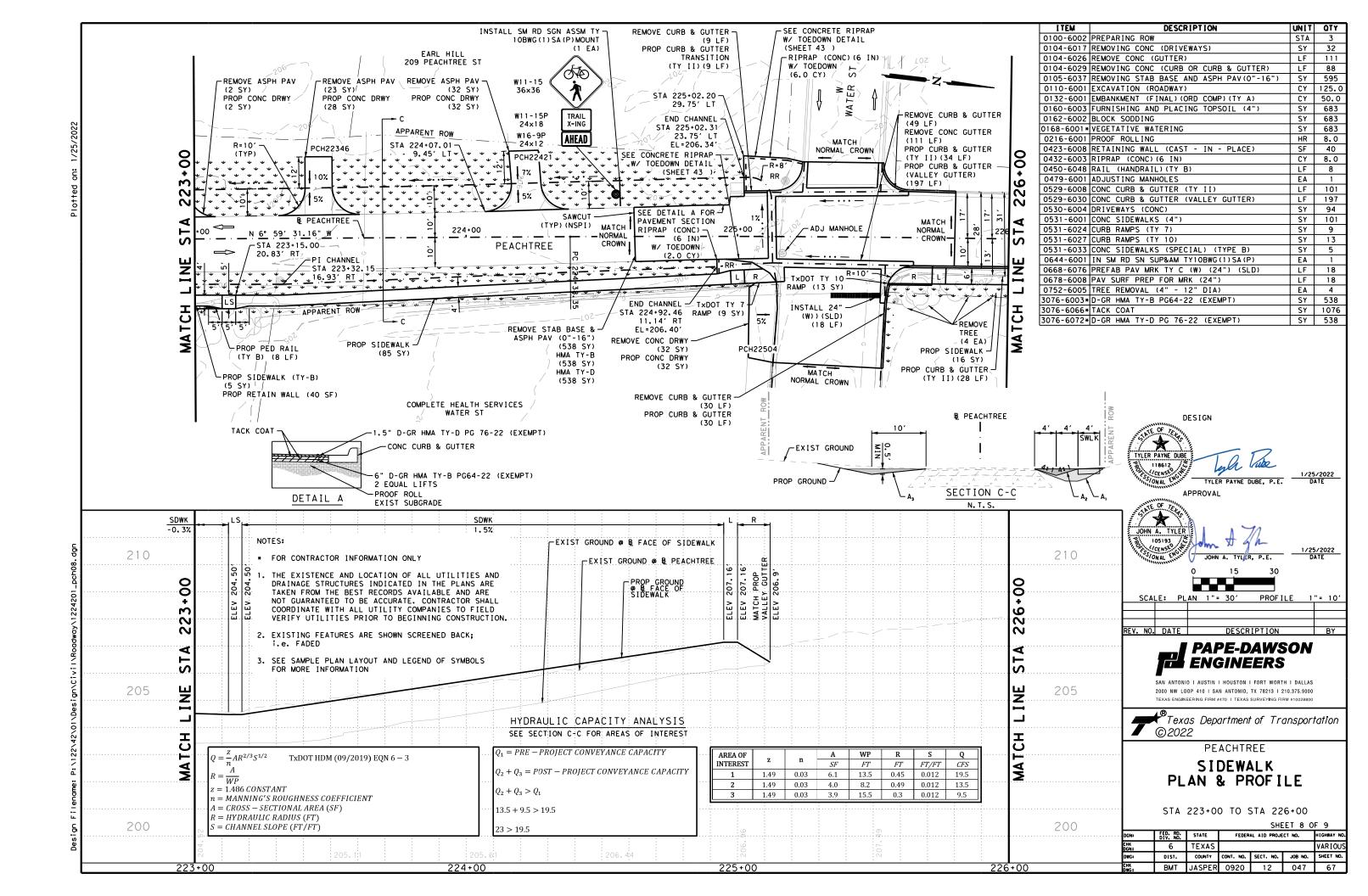
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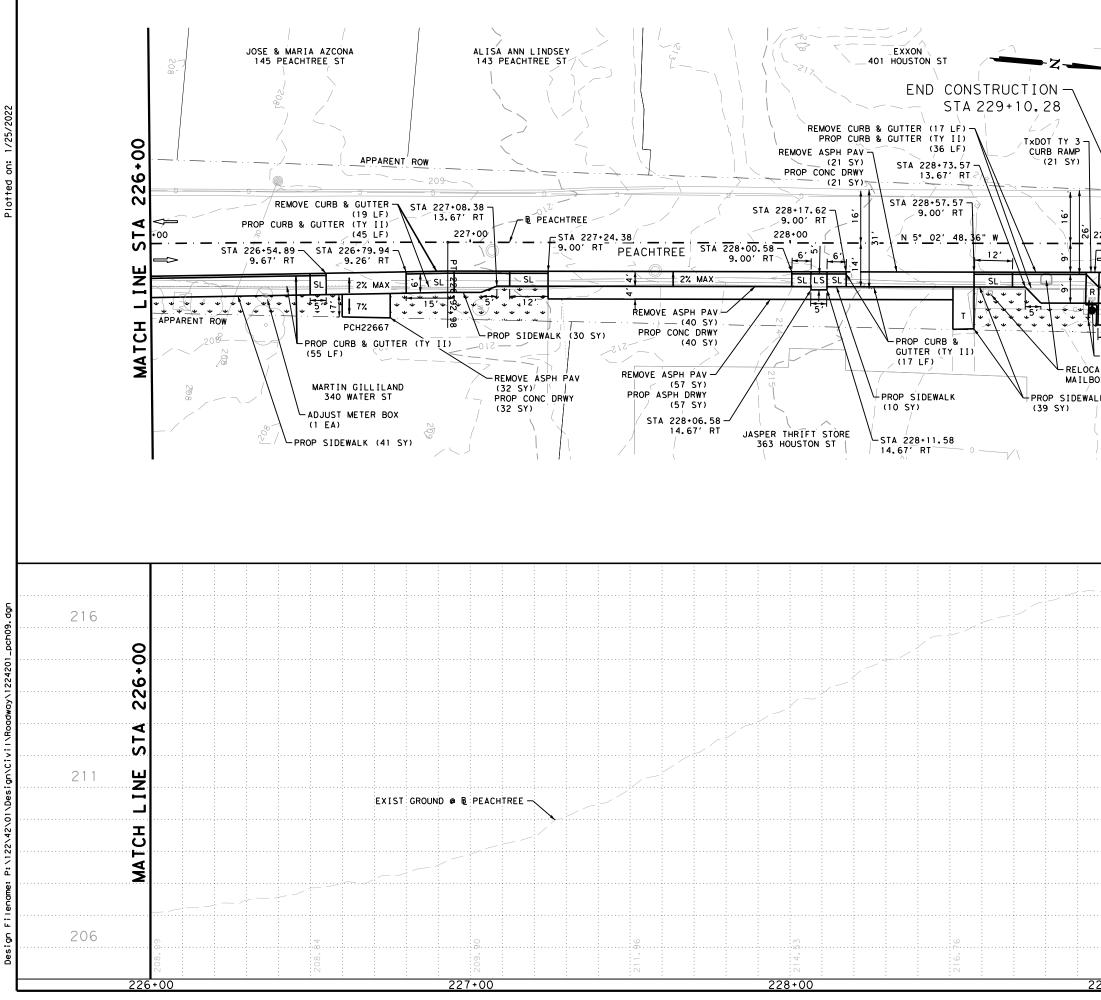


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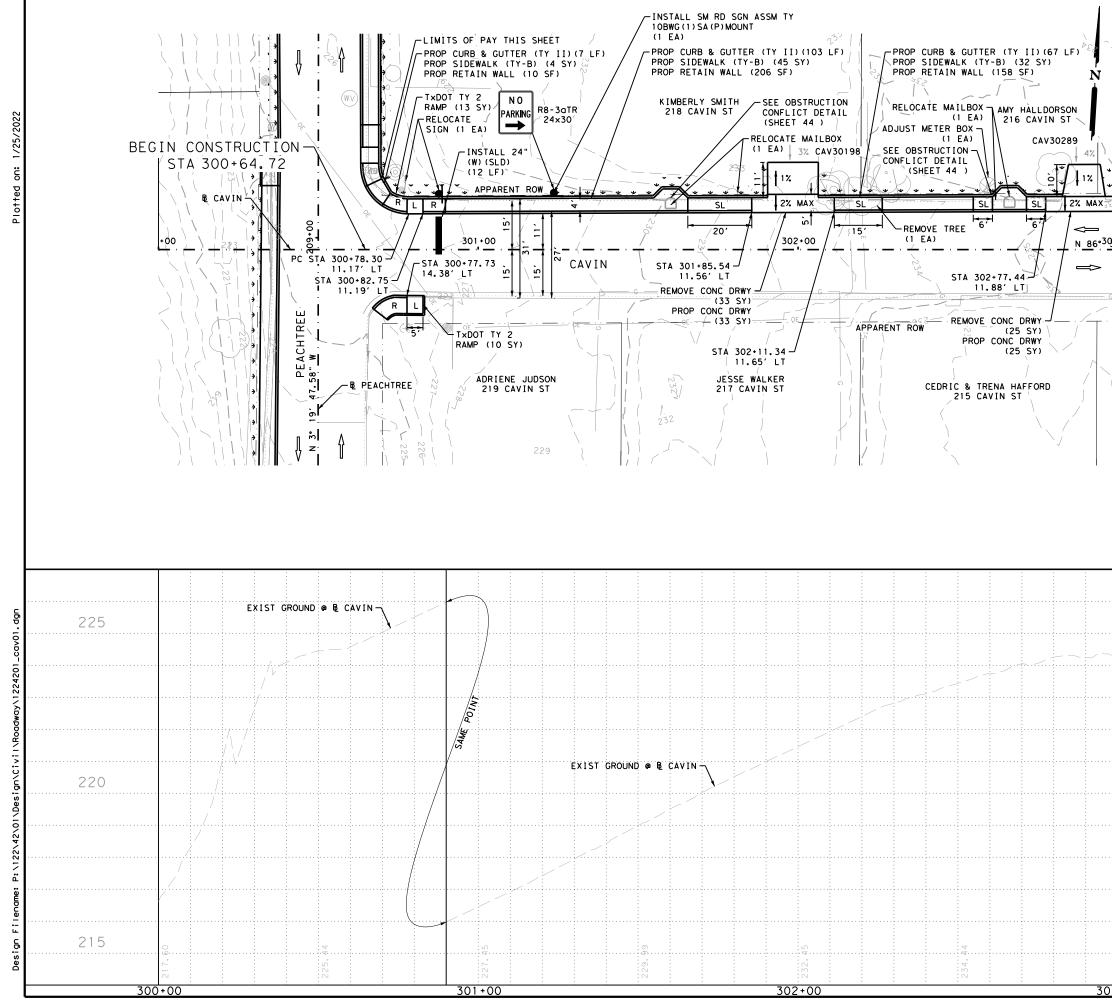


	ITEM	DESCRIPTION	UNIT	QTY			
		PREPARING ROW	STA	3			
		REMOVING STAB BASE AND ASPH PAV(0"-16")	SY	27			
		EXCAVATION (ROADWAY)	CY	60.0			
		EMBANKMENT (FINAL) (ORD COMP) (TY A)	CY	40.0			
		FURNISHING AND PLACING TOPSOIL (4")	SY	360			
		BLOCK SODDING	SY	360			
		VEGETATIVE WATERING	SY	360			
		CL C CONC (MISC)	CY	1.3 580			
-							
-		RAIL (HANDRAIL) (TY B) LF 1 GRATE 9. ERAME					
3		GRATE & FRAME EA DRIVEWAYS (CONC) SY					
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۳O		CONC SIDEWALKS (4") SY CURB RAMPS (TY 5) SY					
÷ m		CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	16 64			
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ť N		REMOVE SM RD SN SUP&AM	EA	1			
γN		PREFAB PAV MRK TY C (W) (24") (SLD)		40			
		ELIM EXT PAV MRK & MRKS (24")	LF	36			
_ <		PAV SURF PREP FOR MRK (24")	LF	40			
		ADJUST VALVE BOX	EA	1			
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MATCH LINE		NOTES: * FOR CONTRACTOR INFORMATION ONLY 1. THE EXISTENCE AND LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES INDICATED IN THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION 2. EXISTING FEATURES ARE SHOWN SCREENED BACK; i.e. FADED 3. SEE SAMPLE PLAN LAYOUT AND LEGEND OF SYMBOLS FOR MORE INFORMATION					
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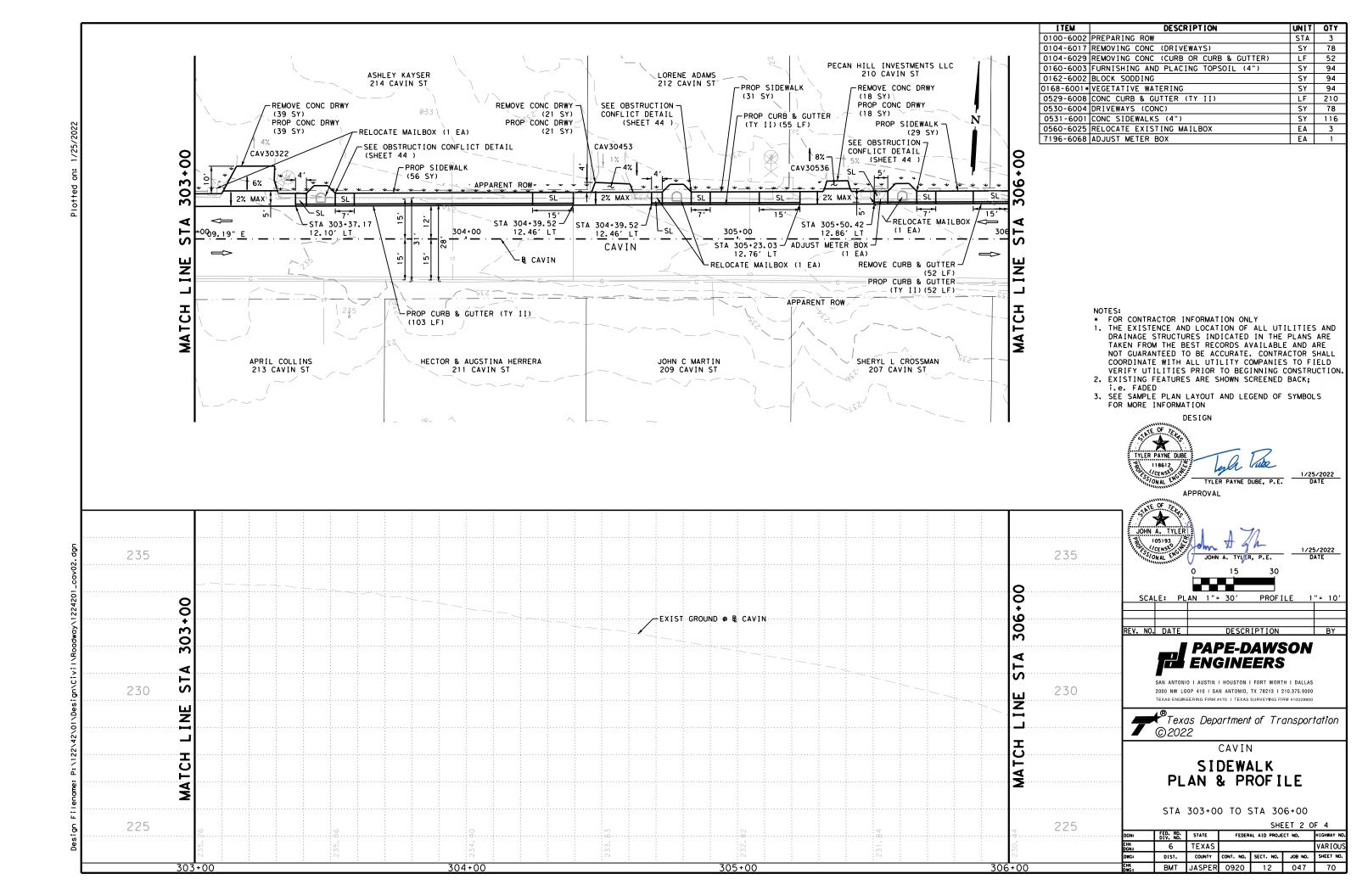


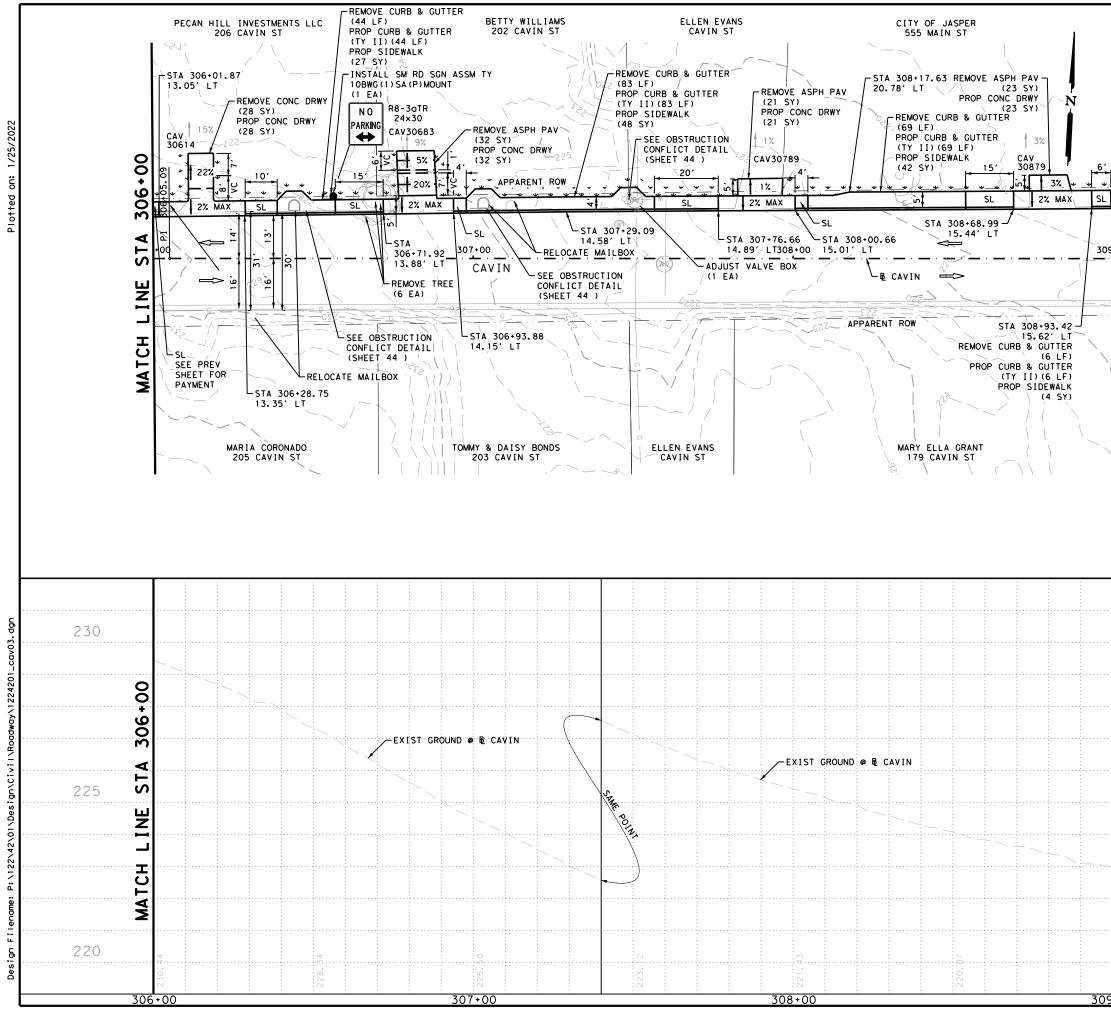


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0160-603 EUNNISHING AND PLACING TOPSOIL (4*) SY 126 0160-603 PECED2 State State SY 126 0160-603 PECED2 State SY 126 0160-603 PECED2 State SY 126 0530-604 PROK (CRB & QUITER (TY 11) SY 93 57 0531-6001 CONE B & QUITER (TY 11) SY 93 57 0531-6001 CONE B & QUITER (TY 11) SY 93 57 0531-6001 CONE B & QUITER (TY 11) SY 126 13 0560-6025 PELVENTS (SM B SN SN UPBAM TY 108%C EA 1 1796-6066 PALOATE SN UPBAM TY 108%C SN UPBAM TY 108%C SN UPBAM TY 108%C 1797 FT ST Z29-06.23 SN UPBAM TY 108%C SN UPBAM TY 108%C SN UPBAM TY 10		0104-6029 REMOV	ING CONC (CURB OR CURB & GUTTER)	LF	36
OISE-E002 BLOCK SODDING SY 126 0525-E003 FUECHARYS (CONC) SY 126 0535-E003 PUECHARYS (CONC) SY 127 0535-E003 PUECHARYS (CONC) SY 121 0535-E003 PUECHARYS (A*7) SY 121 0544-E006 PELOCATE SM PDD SM SUPBAM TY 108MC EA 1 1 THE PS 15 SY 126 0544-E006 PELOCATE SM PDD SM SUPBAM TY 108MC EA 1 Intel State S		0105-6037 REMOV	ING STAB BASE AND ASPH PAV(0"-16")	SY	150
Olde-Gool-VEGETATIVE WATERING SY 126 0530-6004 DRIVEWAYS (CORC) SY 93 0531-6001 CONC SIDEWALS (4") SY 120 0546-6025 RELOCATE SINTING WAILBOX EA 1 0646-6068 RELOCATE SINTING WAILBOX EA 1 0700 RET FOR CONTRACTOR INFORMATION ONLY 1 FEE 0 TAREN FROM THE DESA ALL UTILITIES AND DALL UTILITIES AND D		0160-6003 FURNIS	SHING AND PLACING TOPSOIL (4")	SY	126
0529-6008 CONC CURB & GUTTER (TY II) LF 155 0530-6005 DRIVEWAYS (CONC) SY 120 0531-6001 CONC SIDEWALSS (47) SY 120 0531-6002 DRIVEWAYS (CONC) SY 120 0531-6001 CONC SIDEWALSS (47) SY 120 0531-6002 DRUCATE EXISTING MAILBOX EA 1 0644-6068 RELOCATE SH PD SN SUPBAM TY 108WC EA 1 17196-6069 ADJUST METER BOX EA 1 PROP CURB & GUTTER (TY II) (3 LF) NOTES NOTES NOT RT FT FT FT ST 200 ART PROP CURB & GUTTER (TY II) (3 LF) NOTES TAKEN FROM THE BEST PECOPOS SAVILABLE AND ARE NOTES NOT CURANTER TO TO BE ACCOUNT.CONTRACTOR SHALL TAKEN FROM THE BEST PECOPOS SAVILABLE AND ARE NOTE CURANTER TO BE ACCOUNT.CONTRACTOR SHALL CORDINATE WITH ALL UTILITY COMPANIES TO FILE TAKEN FROM THE BEST PECOPOS SAVILABLE AND ARE NOTE INFORMATION ONLY 1 TAKEN FROM THE BEST PECOPOS SAVILABLE AND ARE NOTE INFORMATION ONLY NOTES TO FILE <		0162-6002 BLOCK	SODDING	SY	126
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0531-6020 CURB RAMES (TY 3) SY 21 0644-6063 SY 21 0644-6063 0644-6063 RELOCATE EXISTING MAILBOX EA 1 7196-6063 RELOCATE EXISTING MAILBOX EA 1 7 PS151 229-01.23 3 1 9.00° RT R F PC STA 229-06.23 1 1 14.10° RT RELOCATE SIGN NOTESI 1 1 1 10 PROP CURB & GUTTER (TY II) (3 LF) NOTESI 1 1 1 10 THE EXISTING FRANCE AND COATION OF ALL UTILITIES AND ARE TAKEN FRONTHERE END ECATE SINDICATE ON FIELD OF ELD NOT GUARATEED TO BE ACCURATE, CONTRACTOR SHALL				-	-
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218 PC STA 229-01.23 PROP CURB & CUTTER (TY II) (3 LF) NOTES: NTES: NOTES: NTEENCORDS AVAILABLE AND ARE NOT CONTRACTOR INFORMATION ONLY THE EXISTING FLORES AND LOCORDS AVAILABLE AND ARE NOT COMPARIATES TO FILL COORDINATE VITUTITES: PRIOR TO BECINNING CONSTRUCTION 2: EXISTING FLATURES ARE SHOWN SCREEDE BACK; 1: e. FADED 3: SEE SAMPLE PLAN LAYOUT AND LEGEND OF SYMBOLS FOR MORE INFORMATION DESIGN WHERE INFORMATION DESIGN COMM A. TYLER PANE DUER, P.E. 1/25/2022 DATE OWN				_	
PC STA 229-01.23 9.00' RT RT STA 229-06.23 1.10' RT REMOVE SIDEWALK (2 SY) PROP CURB & CUITER (TY II) (3 LF) NOTES: NOTES: 		7196-6068 ADJUS	T METER BOX	EA	1
218 TYLER PAYNE DUBE, P.E. DATE 218	R L1 R R T -relocate	9.00' RT R=5' -PT STA 229+06.2 14.10' RT - REMOVE SIDEWALK PROP CURB & GUI NOTES * FO 1. TH SIGN DR TA NO CO VE 2. EX 1. 3. SE	23 (C (2 SY) TTER (TY II) (3 LF) C CONTRACTOR INFORMATION ONLY E EXISTENCE AND LOCATION OF ALL UTI AINAGE STRUCTURES INDICATED IN THE KEN FROM THE BEST RECORDS AVAILABLE T GUARANTEED TO BE ACCURATE. CONTRA ORDINATE WITH ALL UTILITY COMPANIES RIFY UTILITIES PRIOR TO BEGINNING C ISTING FEATURES ARE SHOWN SCREENED e. FADED E SAMPLE PLAN LAYOUT AND LEGEND OF R MORE INFORMATION DESIGN THER PARNE DUBE THER PARNE DUBE	PLANS AND A CTOR S TO FI ONSTRU BACK; SYMBOL	ARE IRE ELD ICTION. S
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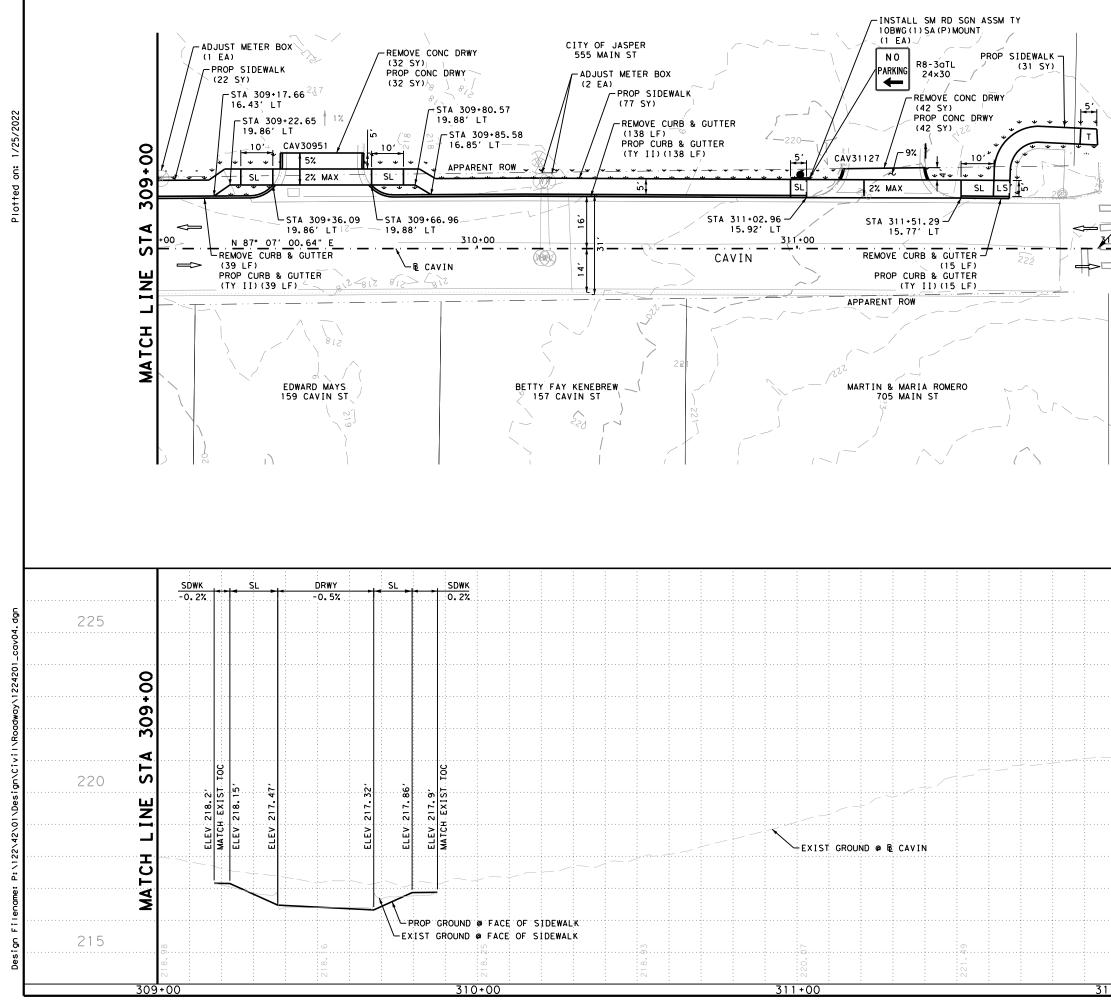


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		0104-6017						SY	58
		0160-6003				NG TOP	SOIL (4")	SY SY	79 79
		0168-6001*						SY SY	79
4		0423-6008				<u>- I</u> N	- PLACE)	SF	374
		0529-6008				(TY II)		LF	180
		0530-6004						SY SY	58 23
				CURB RAMPS (TY 2) SY 2 CONC SIDEWALKS (SPECIAL) (TYPE B) SY 3					
				RELOCATE EXISTING MAILBOX EA 2					
	0			IN SM RD SN SUP&AM TY10BWG(1)SA(P) EA 1					
	03+00			RELOCATE SM RD SN SUP&AM TY 10BWG EA					
•]	+			PAV SURF PREP FOR MRK (24") LF 1					
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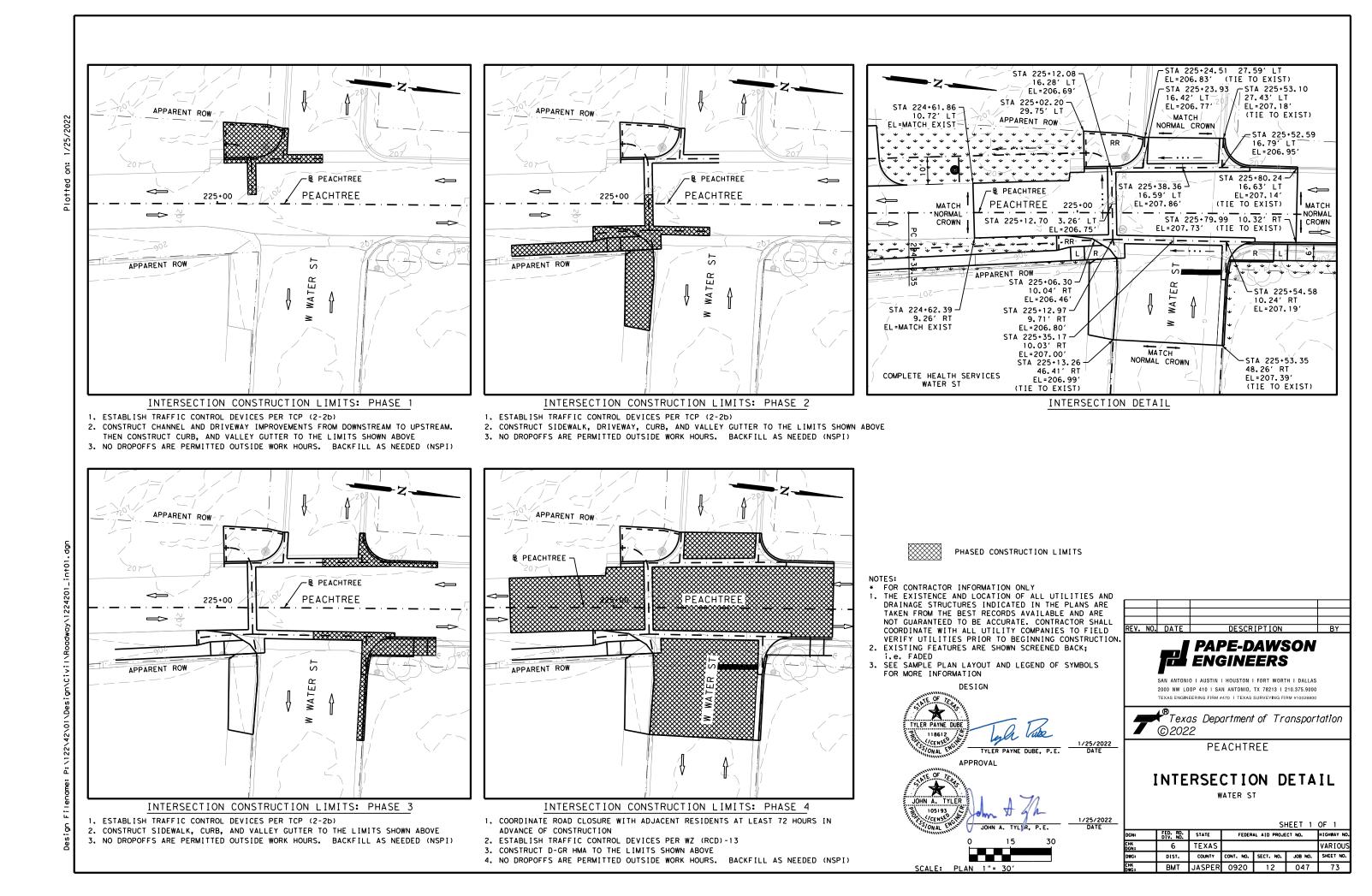


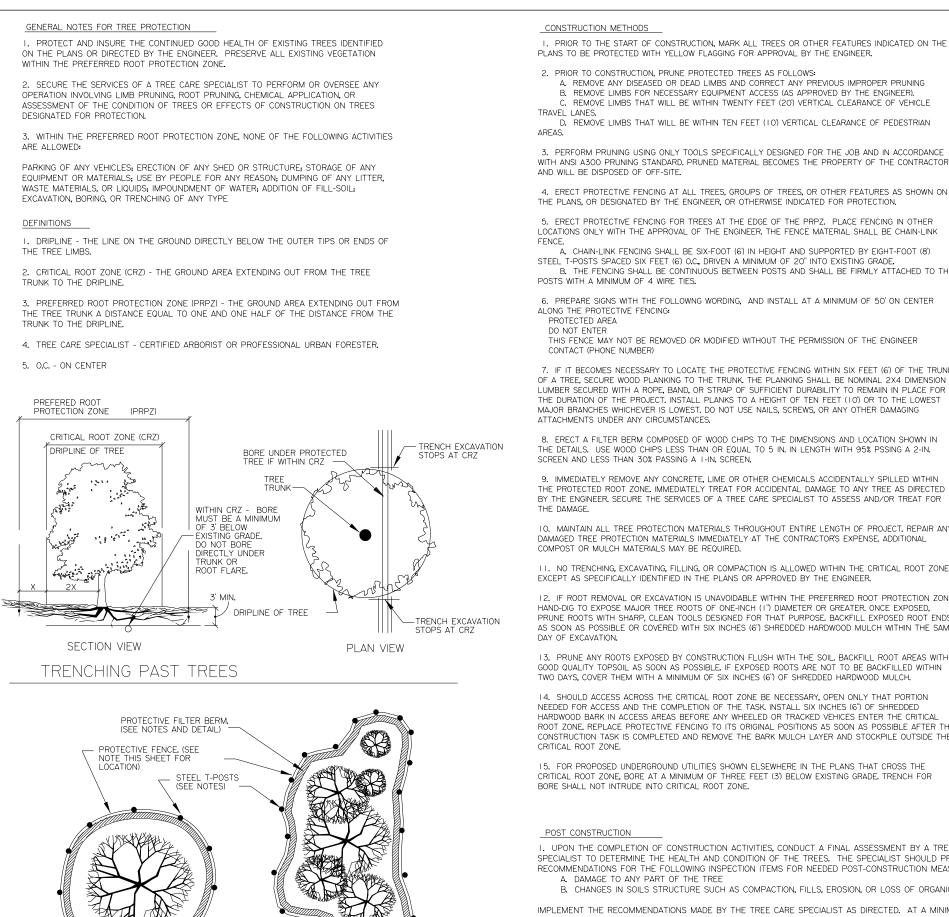


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		PREPARING ROW	STA	3
-	-	REMOVING CONC (DRIVEWAYS)	SY	28
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TREE GROUPS

SINGLE TREES

PLAN VIEW OF FENCING LAYOUT

2. AFTER ALL CONSTRUCTION ACTIVITIES HAVE CEASED, REMOVE ALL TREE PROTECTION MATERIALS FROM THE PROJECT SITE. MULCH MAY BE SPREAD OVER THE SITE IN A TWO-INCH THICK MAXIMUM LAYER.

AT 6 O.C. MAXIMUM

PLACE SIGNS	
A MINIMUM OF 50 FT O.C.	
SEE NOTES -	

D. REMOVE LIMBS THAT WILL BE WITHIN TEN FEET (10) VERTICAL CLEARANCE OF PEDESTRIAN

3. PERFORM PRUNING USING ONLY TOOLS SPECIFICALLY DESIGNED FOR THE JOB AND IN ACCORDANCE WITH ANSI A300 PRUNING STANDARD. PRUNED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF OFF-SITE.

4. ERECT PROTECTIVE FENCING AT ALL TREES, GROUPS OF TREES, OR OTHER FEATURES AS SHOWN ON THE PLANS, OR DESIGNATED BY THE ENGINEER, OR OTHERWISE INDICATED FOR PROTECTION.

5. ERECT PROTECTIVE FENCING FOR TREES AT THE EDGE OF THE PRPZ. PLACE FENCING IN OTHER LOCATIONS ONLY WITH THE APPROVAL OF THE ENGINEER. THE FENCE MATERIAL SHALL BE CHAIN-LINK

A. CHAIN-LINK FENCING SHALL BE SIX-FOOT (6) IN HEIGHT AND SUPPORTED BY EIGHT-FOOT (8) STEEL T-POSTS SPACED SIX FEET (6) O.C., DRIVEN A MINIMUM OF 20" INTO EXISTING GRADE. B. THE FENCING SHALL BE CONTINUOUS BETWEEN POSTS AND SHALL BE FIRMLY ATTACHED TO THE POSTS WITH A MINIMUM OF 4 WIRE TIES.

6. PREPARE SIGNS WITH THE FOLLOWNG WORDING, AND INSTALL AT A MINIMUM OF 50' ON CENTER ALONG THE PROTECTIVE FENCING:

THIS FENCE MAY NOT BE REMOVED OR MODIFIED WITHOUT THE PERMISSION OF THE ENGINEER CONTACT (PHONE NUMBER)

7. IF IT BECOMES NECESSARY TO LOCATE THE PROTECTIVE FENCING WITHIN SIX FEET (6) OF THE TRUNK OF A TREE, SECURE WOOD PLANKING TO THE TRUNK. THE PLANKING SHALL BE NOMINAL 2X4 DIMENSION LUMBER SECURED WITH A ROPE, BAND, OR STRAP OF SUFFICIENT DURABILITY TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. INSTALL PLANKS TO A HEIGHT OF TEN FEET (10) OR TO THE LOWEST MAJOR BRANCHES WHICHEVER IS LOWEST. DO NOT USE NAILS, SCREWS, OR ANY OTHER DAMAGING ATTACHMENTS UNDER ANY CIRCUMSTANCES.

8. ERECT A FILTER BERM COMPOSED OF WOOD CHIPS TO THE DIMENSIONS AND LOCATION SHOWN IN THE DETAILS. USE WOOD CHIPS LESS THAN OR EQUAL TO 5 IN. IN LENGTH WITH 95% PSSING A 2-IN. SCREEN AND LESS THAN 30% PASSING A I-IN. SCREEN.

9. IMMEDIATELY REMOVE ANY CONCRETE, LIME OR OTHER CHEMICALS ACCIDENTALLY SPILLED WITHIN THE PROTECTED ROOT ZONE. IMMEDIATELY TREAT FOR ACCIDENTAL DAMAGE TO ANY TREE AS DIRECTED BY THE ENGINEER. SECURE THE SERVICES OF A TREE CARE SPECIALIST TO ASSESS AND/OR TREAT FOR

10. MAINTAIN ALL TREE PROTECTION MATERIALS THROUGHOUT ENTIRE LENGTH OF PROJECT. REPAIR ANY DAMAGED TREE PROTECTION MATERIALS IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. ADDITIONAL COMPOST OR MULCH MATERIALS MAY BE REQUIRED.

II. NO TRENCHING, EXCAVATING, FILLING, OR COMPACTION IS ALLOWED WITHIN THE CRITICAL ROOT ZONE EXCEPT AS SPECIFICALLY IDENTIFIED IN THE PLANS OR APPROVED BY THE ENGINEER.

12. IF ROOT REMOVAL OR EXCAVATION IS UNAVOIDABLE WITHIN THE PREFERRED ROOT PROTECTION ZONE, HAND-DIG TO EXPOSE MAJOR TREE ROOTS OF ONE-INCH (1") DIAMETER OR GREATER. ONCE EXPOSED, PRUNE ROOTS WITH SHARP, CLEAN TOOLS DESIGNED FOR THAT PURPOSE. BACKFILL EXPOSED ROOT ENDS AS SOON AS POSSIBLE OR COVERED WITH SIX INCHES (6") SHREDDED HARDWOOD MULCH WITHIN THE SAME

13. PRUNE ANY ROOTS EXPOSED BY CONSTRUCTION FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOTS ARE NOT TO BE BACKFILLED WITHIN TWO DAYS, COVER THEM WITH A MINIMUM OF SIX INCHES (6") OF SHREDDED HARDWOOD MULCH.

14. SHOULD ACCESS ACROSS THE CRITICAL ROOT ZONE BE NECESSARY, OPEN ONLY THAT PORTION NEEDED FOR ACCESS AND THE COMPLETION OF THE TASK. INSTALL SIX INCHES (6") OF SHREDDED HARDWOOD BARK IN ACCESS AREAS BEFORE ANY WHEELED OR TRACKED VEHICES ENTER THE CRITICAL ROOT ZONE, REPLACE PROTECTIVE FENCING TO ITS ORIGINAL POSITIONS AS SOON AS POSSIBLE AFTER THE CONSTRUCTION TASK IS COMPLETED AND REMOVE THE BARK MULCH LAYER AND STOCKPILE OUTSIDE THE

15. FOR PROPOSED UNDERGROUND UTILITIES SHOWN ELSEWHERE IN THE PLANS THAT CROSS THE CRITICAL ROOT ZONE, BORE AT A MINIMUM OF THREE FEET (3) BELOW EXISTING GRADE, TRENCH FOR BORE SHALL NOT INTRUDE INTO CRITICAL ROOT ZONE.

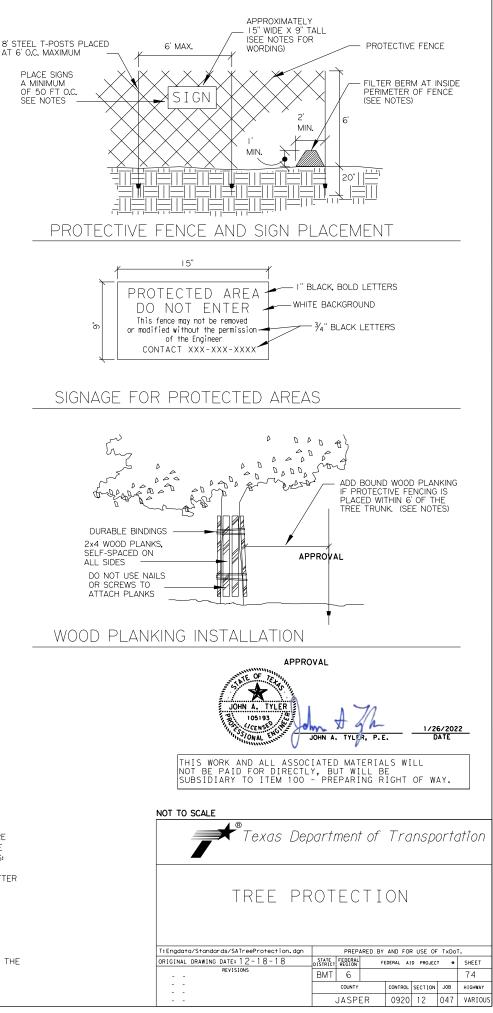
1. UPON THE COMPLETION OF CONSTRUCTION ACTIVITIES, CONDUCT A FINAL ASSESSMENT BY A TREE CARE SPECIALIST TO DETERMINE THE HEALTH AND CONDITION OF THE TREES. THE SPECIALIST SHOULD PROVIDE RECOMMENDATIONS FOR THE FOLLOWING INSPECTION ITEMS FOR NEEDED POST-CONSTRUCTION MEASURES: A. DAMAGE TO ANY PART OF THE TREE

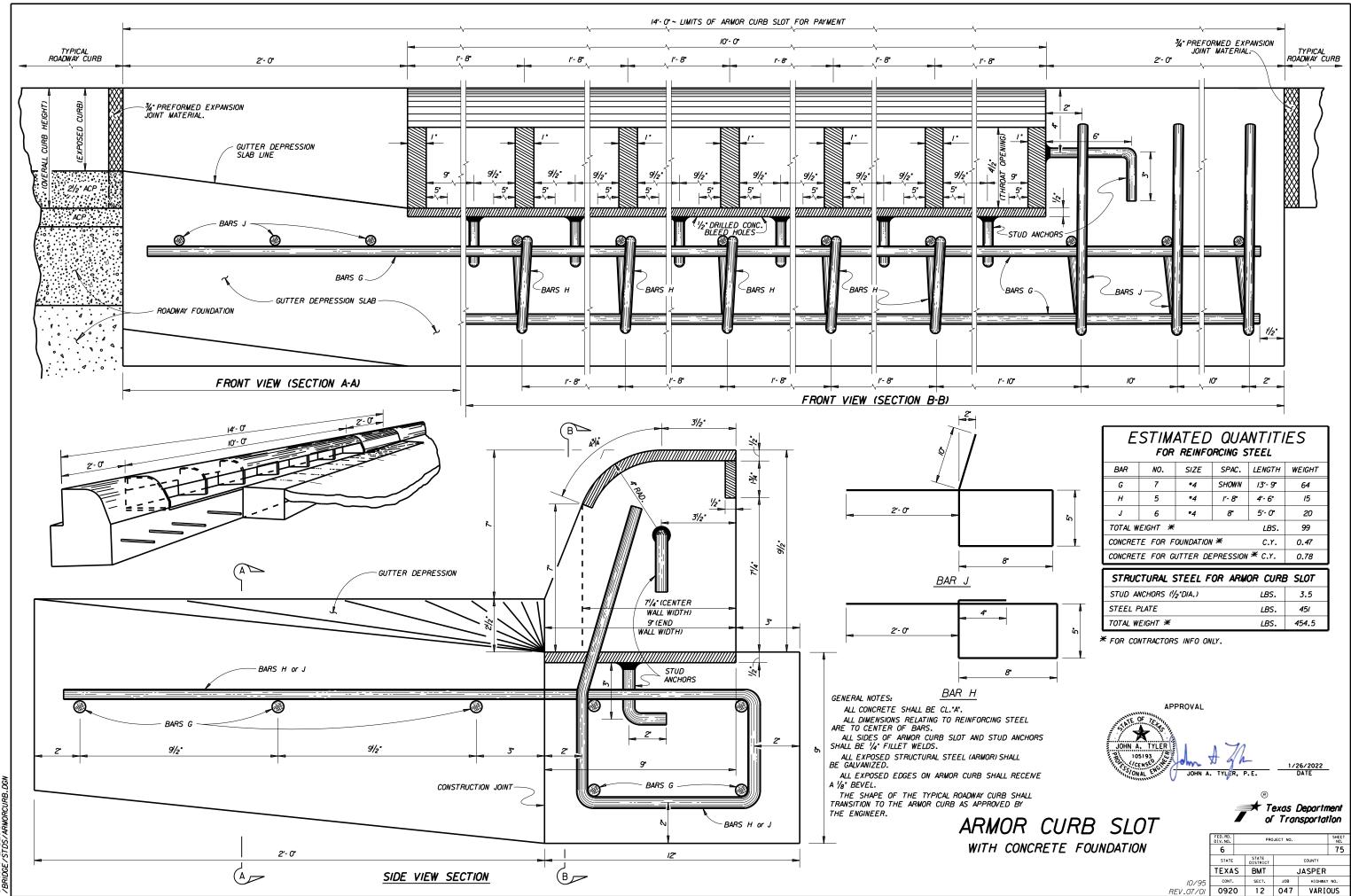
B. CHANGES IN SOILS STRUCTURE SUCH AS COMPACTION, FILLS, EROSION, OR LOSS OF ORGANIC MATTER

IMPLEMENT THE RECOMMENDATIONS MADE BY THE TREE CARE SPECIALIST AS DIRECTED. AT A MINIMUM, PERFORM THE FOLLOWING

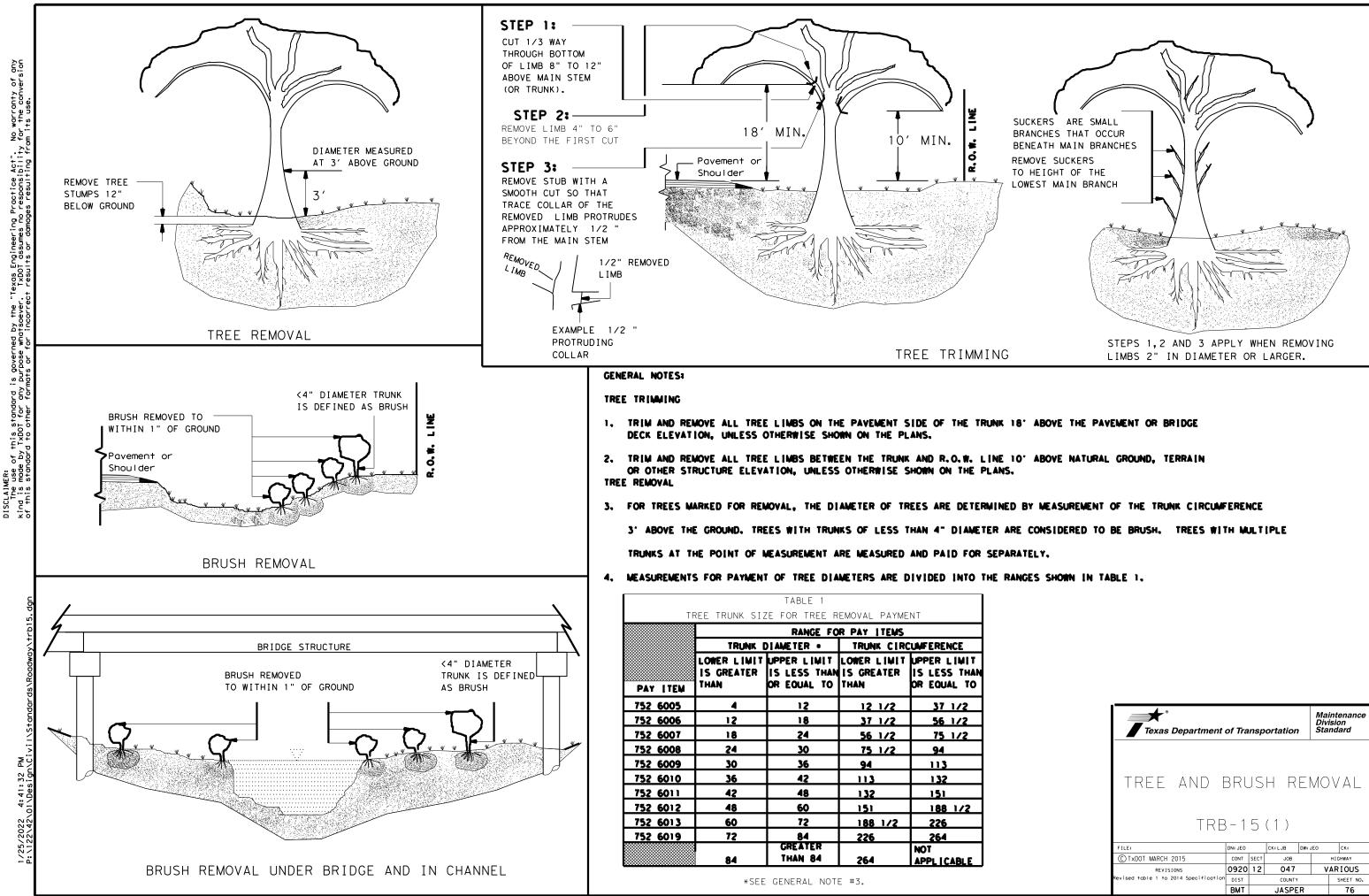
A. REMOVE TREES THAT MAY HAVE DIED DURING CONSTRUCTION B. REMOVE ANY FILL SOIL FROM ROOT ZONES

C. REPAIR AREAS DAMAGED DURING CONSTRUCTION

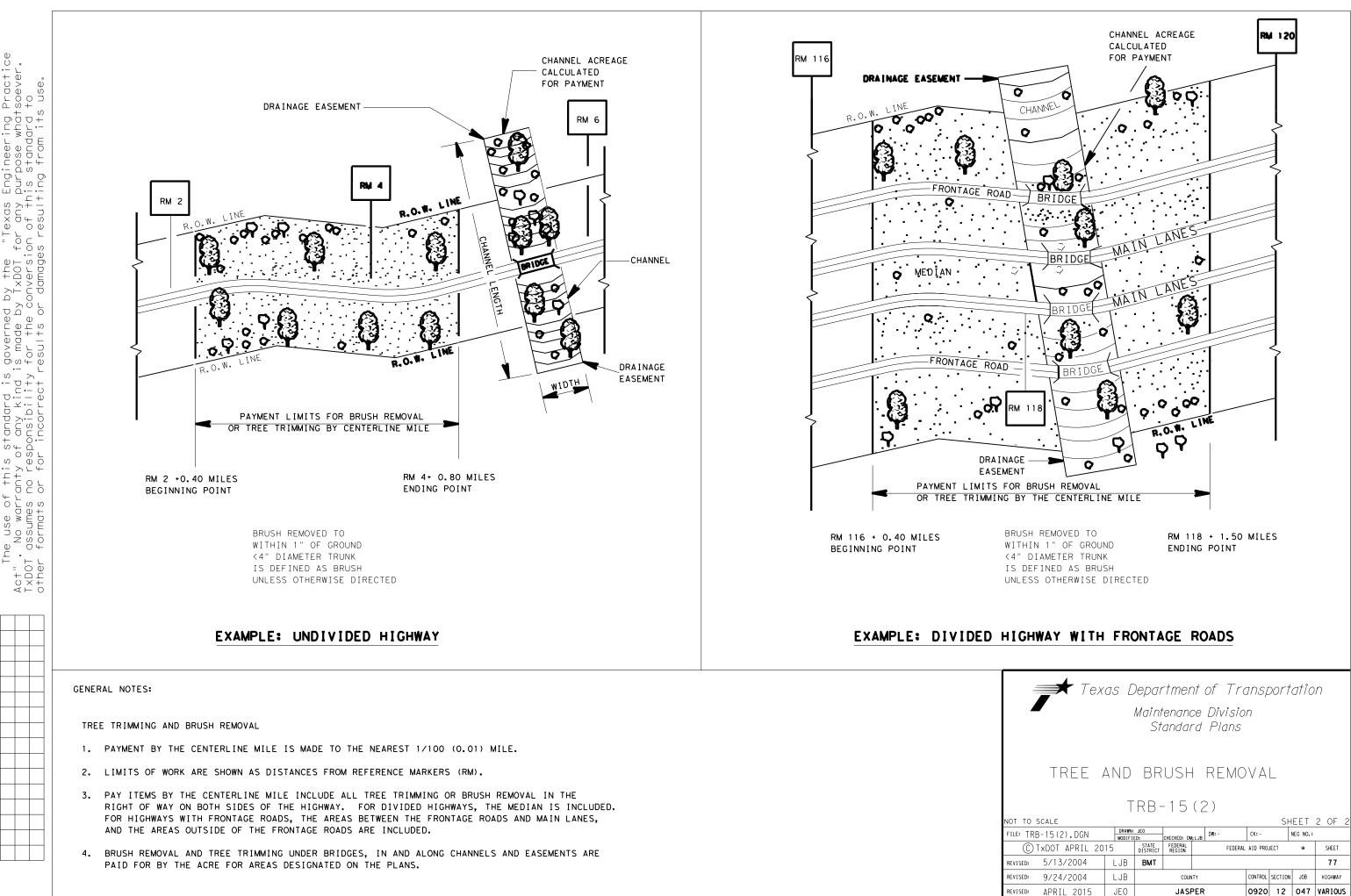




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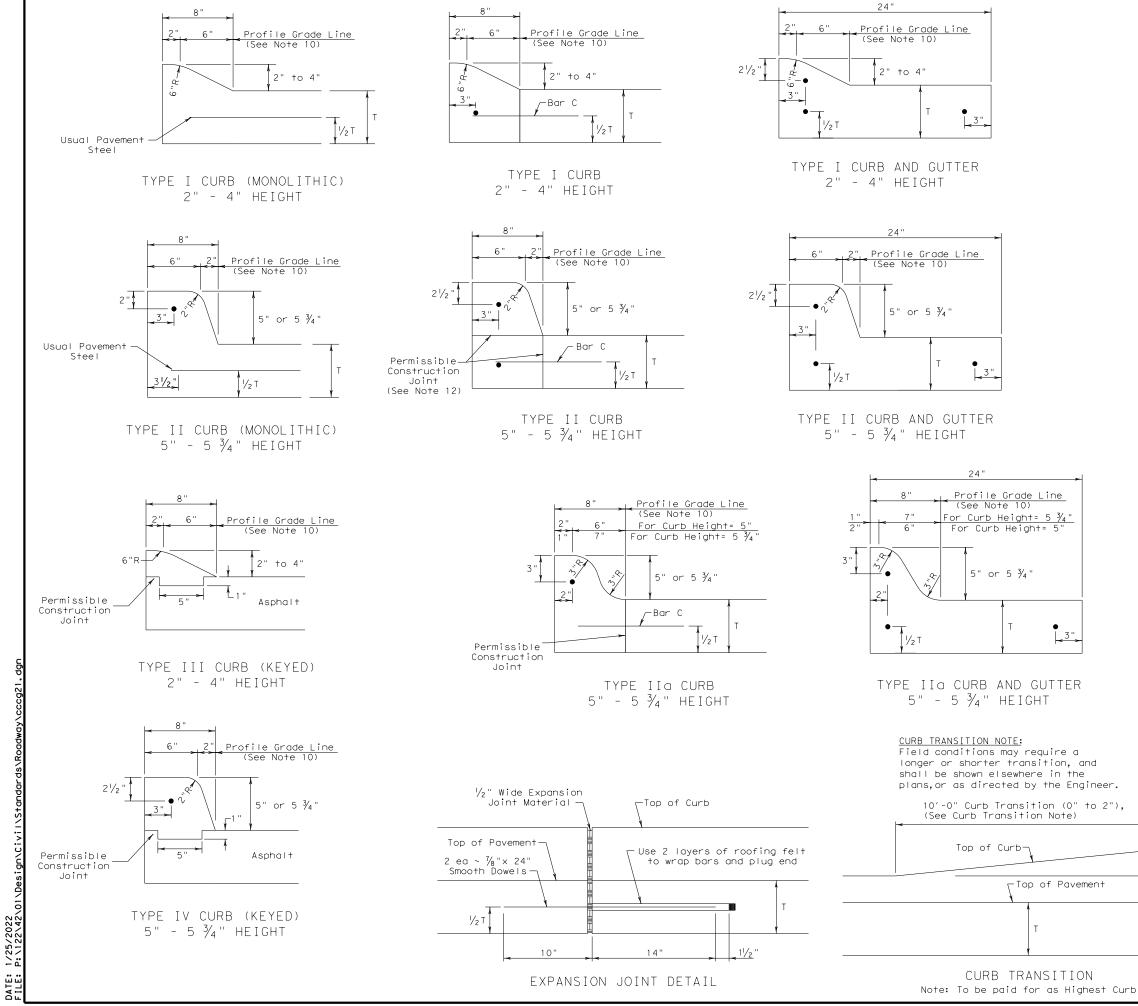
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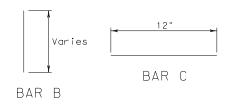
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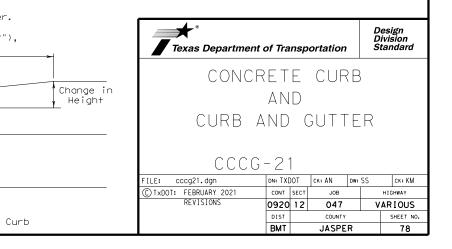


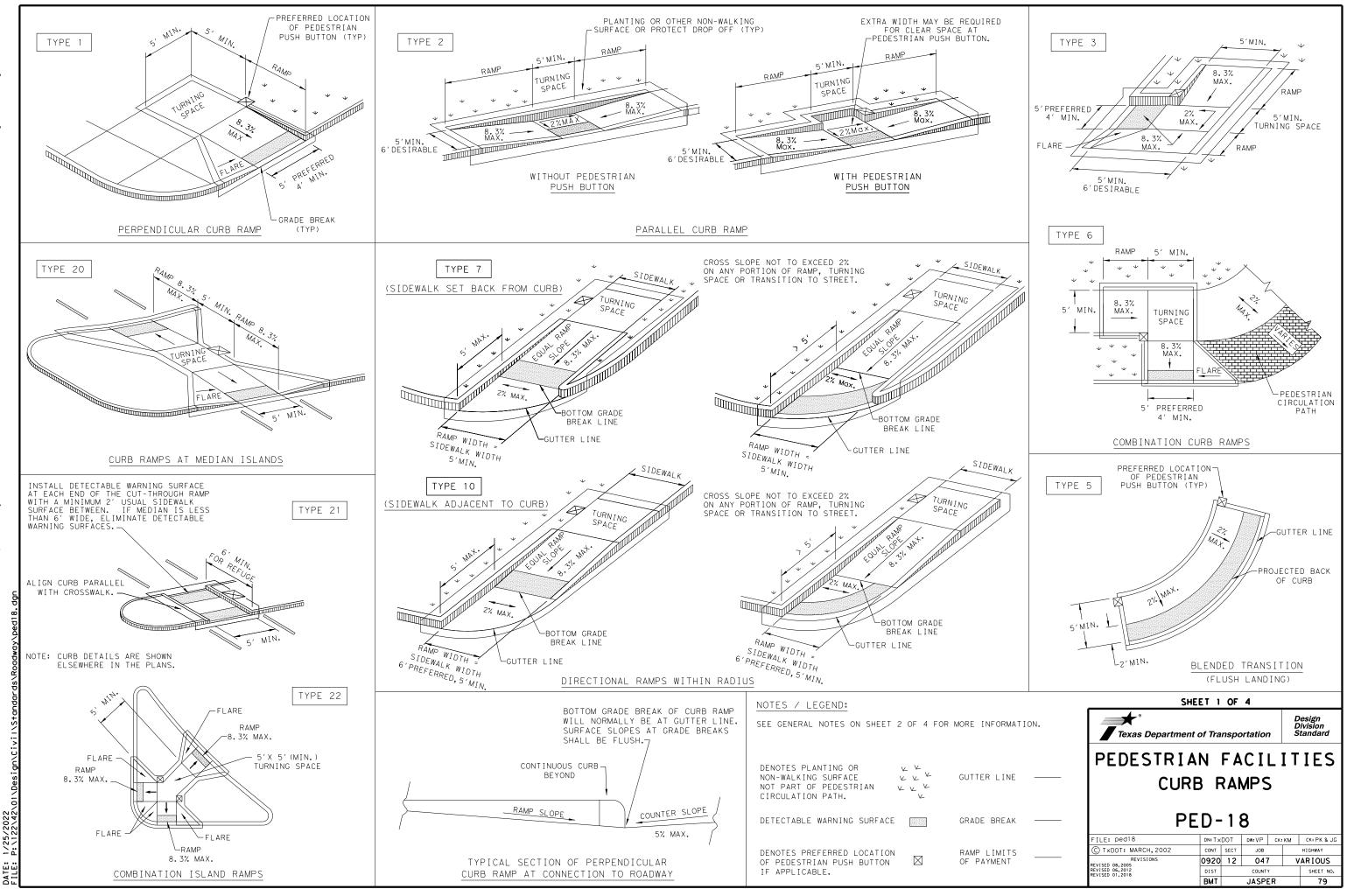
GENERAL NOTES

- 1. All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter.'
- 2. Concrete shall be Class A.
- 3. When reinforcing bars are used, they shall be No.4 unless otherwise shown. The use of fiber reinforced concrete in lieu of reinforcing steel is acceptable. Use fibers meeting the requirements of DMS 4550, "Fibers for Concrete," and dose fibers in accordance with Material Producers List (MPL) "Fibers for Class A and B Concrete Applications.
- Round exposed sharp edges with a rounding tool, to a 4. minimum radius of $\frac{1}{4}$ inch.
- 5. All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
- 6. Where concrete curb is to be placed on existing concrete pavement, Bar B may be drilled and the grouted in place, or may be inserted into fresh concrete.
- 7. Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by The Engineer.
- 8. Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C~C.
- 9. Dimension 'T' shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement dimension 'T' is 8" maximum.
- 10. Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
- 11. One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or riprap.
- 12. When horizontal permissible construction joints are used, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans. Reinforcing steel for curb section shall then conform to that required for concrete curb.
- 13. Bar B used as needed to support curb reinforcing steel during concrete placement.



3"





GENERAL NOTES

CURB RAMPS

- 1. Install a curb ramp or blended transition at each pedestrian street crossing.
- 2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
- 3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
- 4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5'x 5' passing areas at intervals not to exceed 200' are required.
- 5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
- 6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
- 7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
- 8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
- 9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
- 10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
- 11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
- 12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
- 13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
- 14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
- 15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
- 16. Provide a smooth transition where the curb ramps connect to the street.
- 17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
- 18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

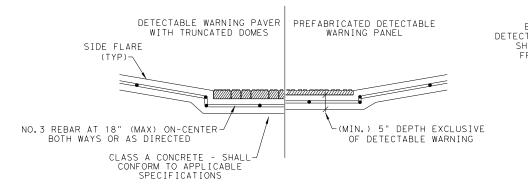
- 19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dork brown or dork red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
- 20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
- 21. Detectable warning surfaces must be firm, stable and slip resistant.
- 22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
- 23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
- 24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DETECTABLE WARNING PAVERS (IF USED)

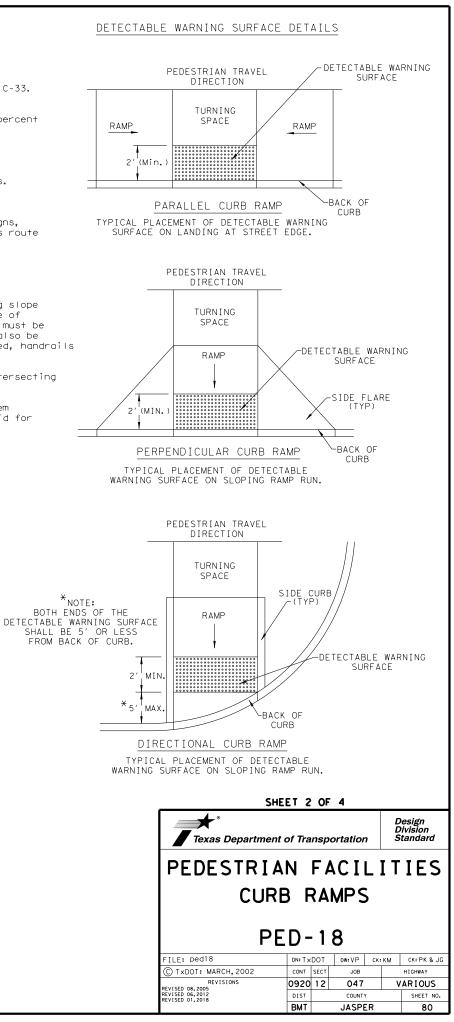
- 25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
- 26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

SIDEWALKS

- 27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
- 28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
- 29. Street grades and cross slopes shall be as shown elsewhere in the plans.
- 30. Changes in level greater than 1/4 inch are not permitted.
- 31. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
- 32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
- 33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
- 34. Sidewalk details are shown elsewhere in the plans.

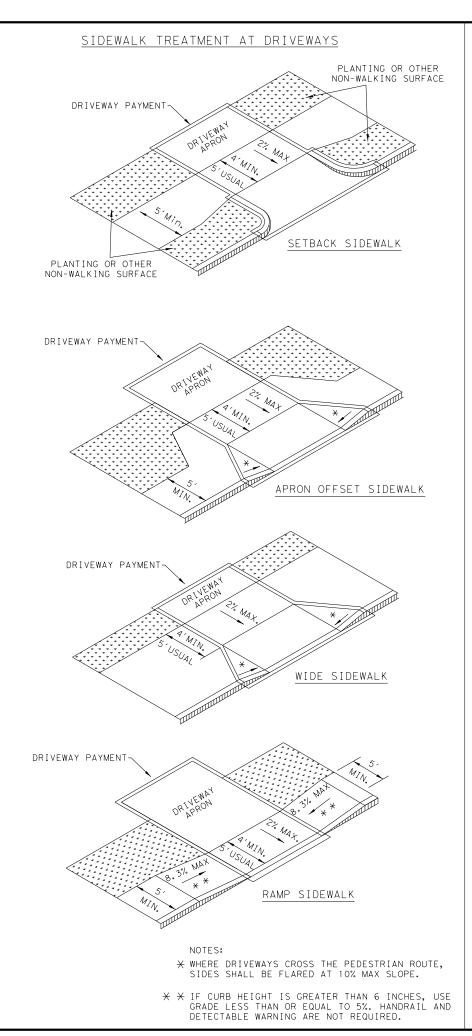


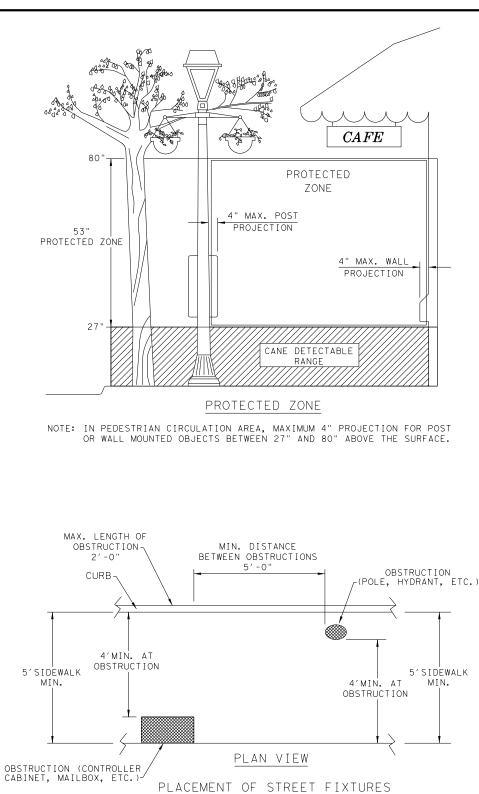
SECTION VIEW DETAIL CURB RAMP AT DETECTIBLE WARNINGS



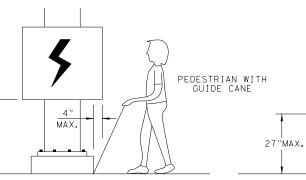


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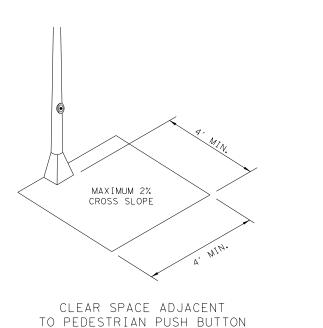




NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



> 27'

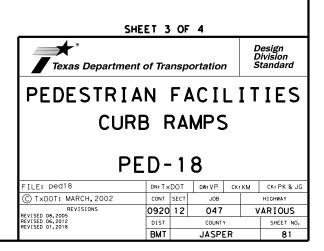


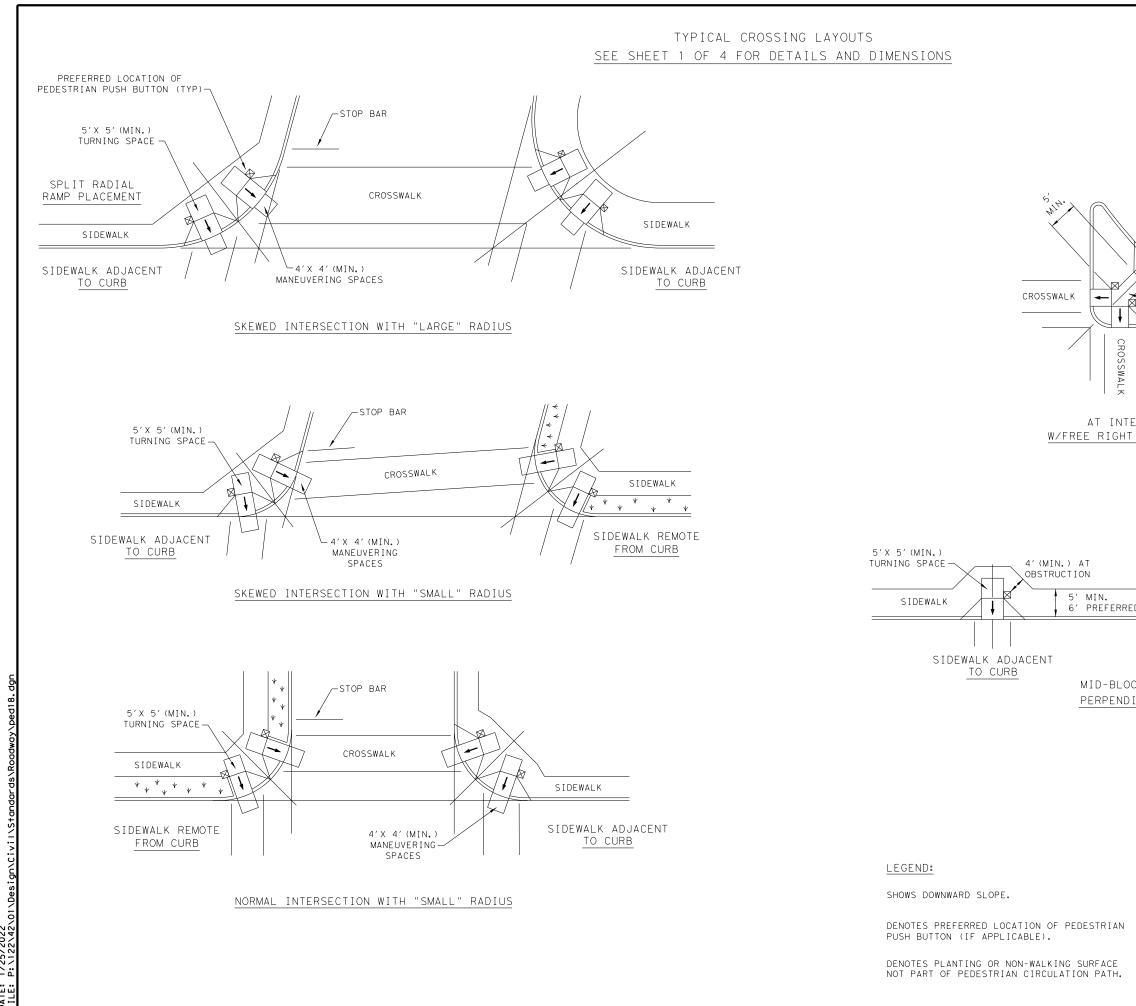
PHONE

WHEN AN OBSTRUCTION OF A HEIGHT GREATER THAN 27" FROM THE SURFACE WOULD CREATE A PROTRUSION OF MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA, CONSTRUCT ADDITIONAL CURB OR FOUNDATION AT THE BOTTOM TO PROVIDE A MAXIMUM 4" OVERHANG.

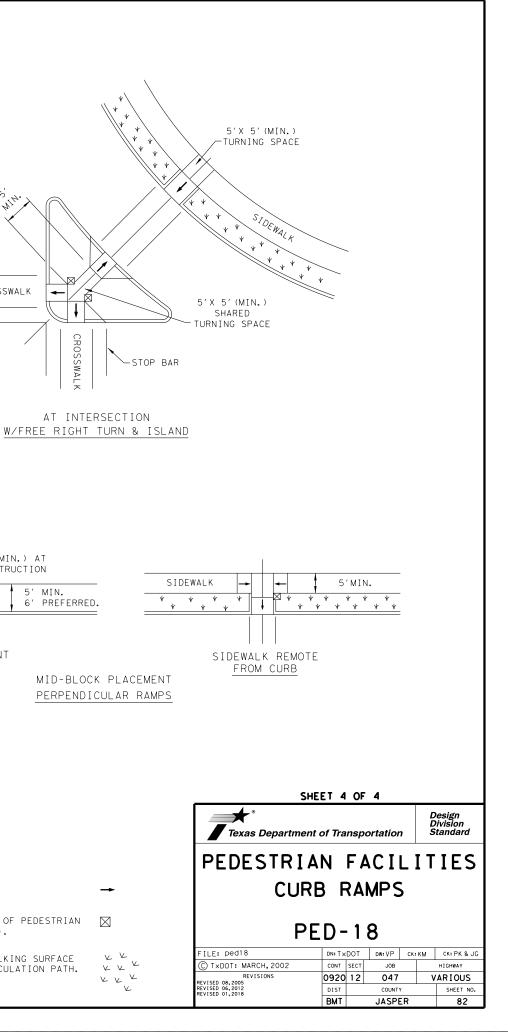
PROTRUDING OBJECTS OF A HEIGHT \leq 27" ARE DETECTABLE BY CANE AND DO NOT REQUIRE ADDITIONAL TREATMENT.

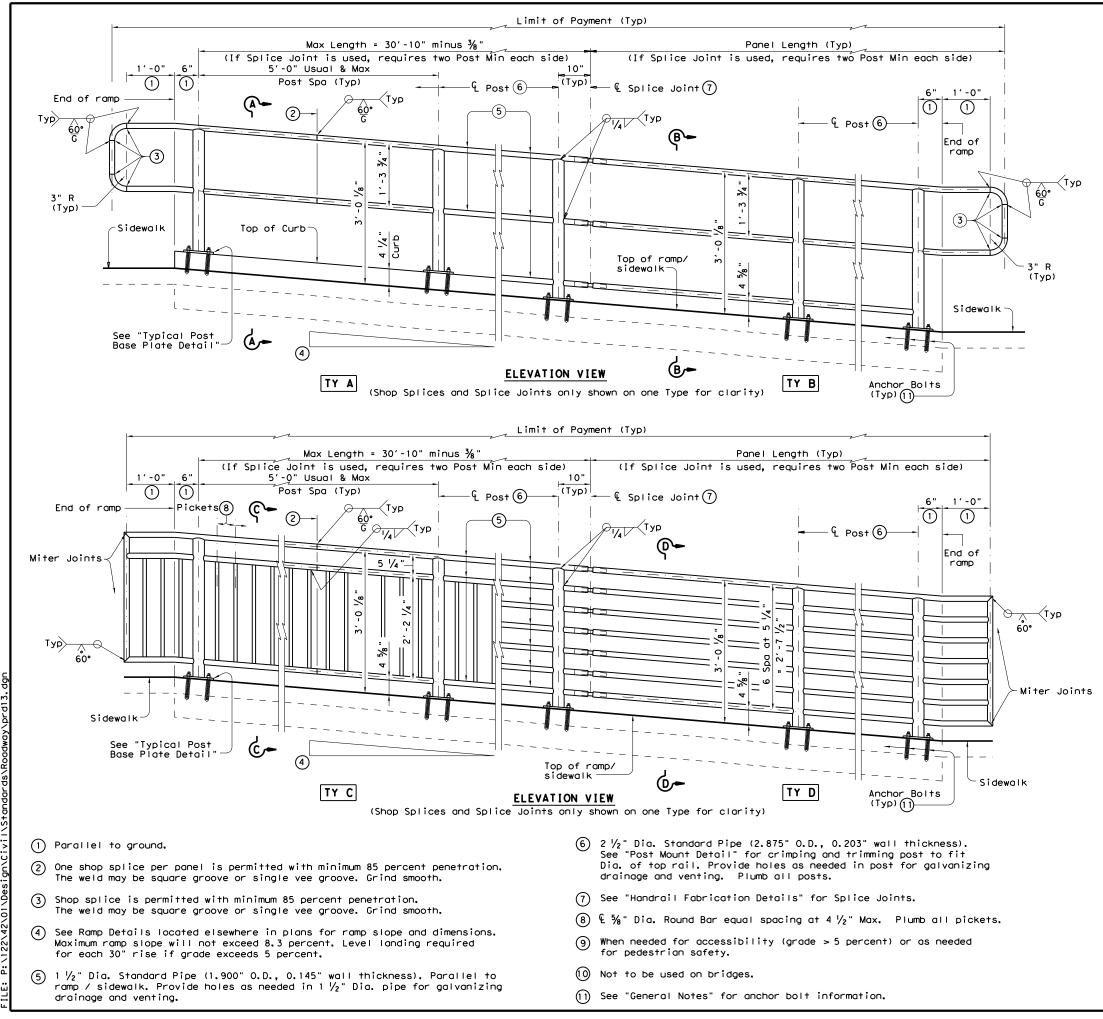
DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"



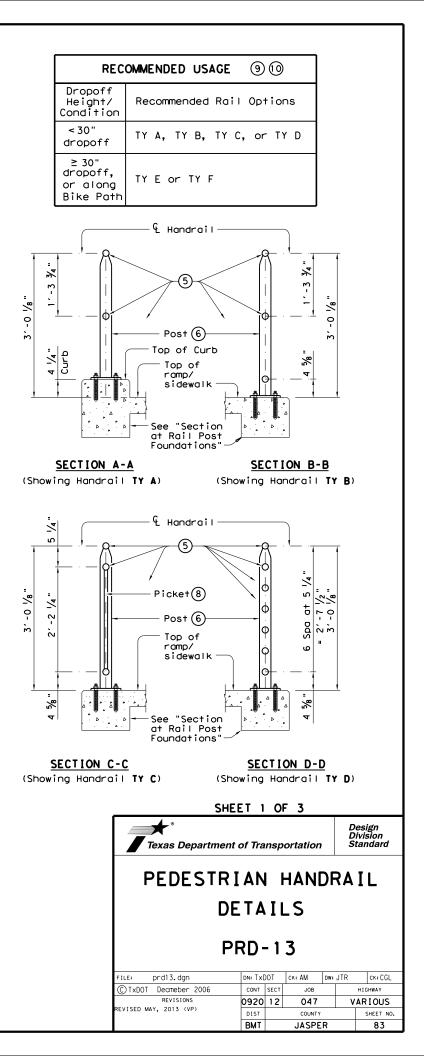


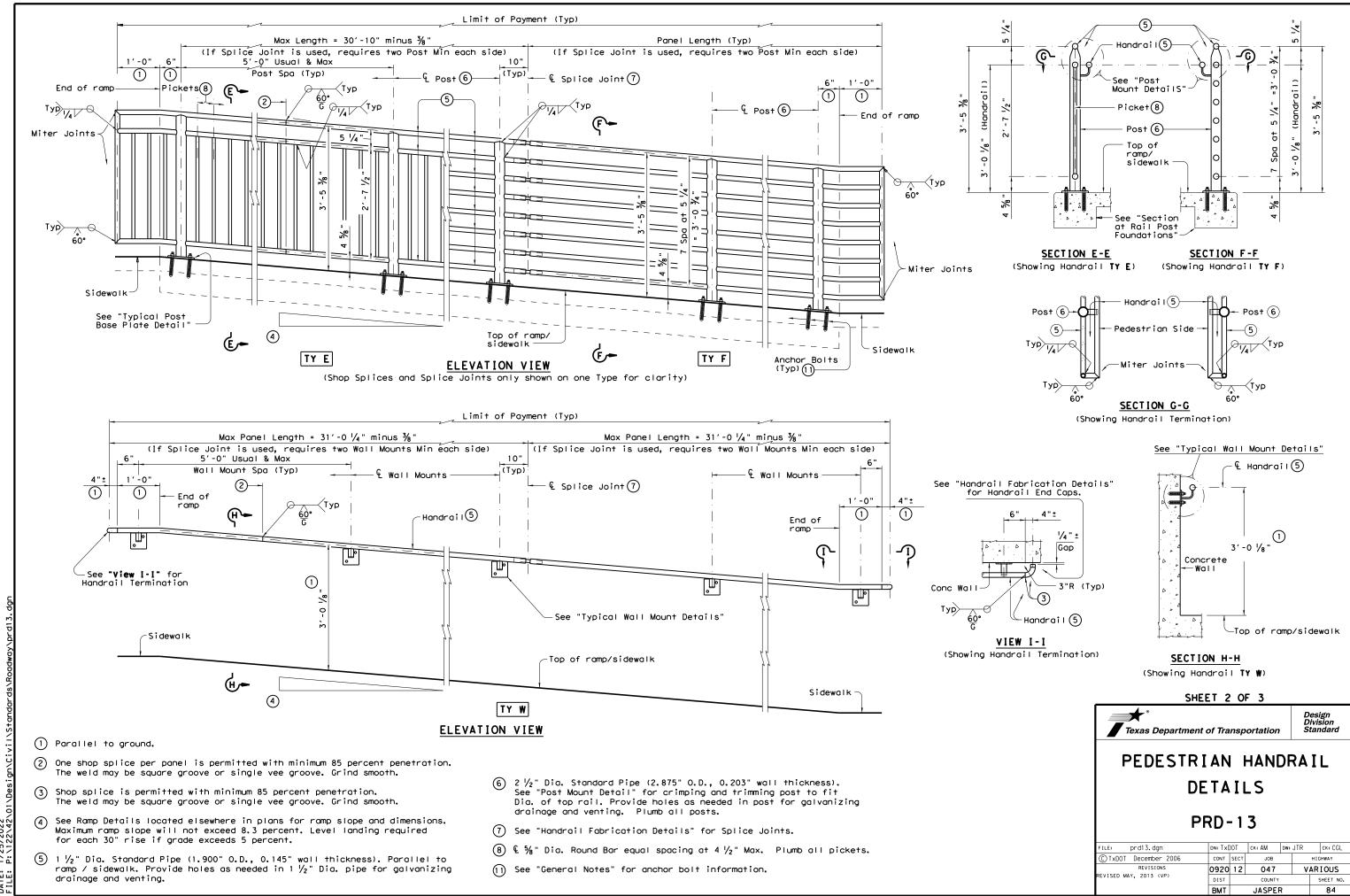
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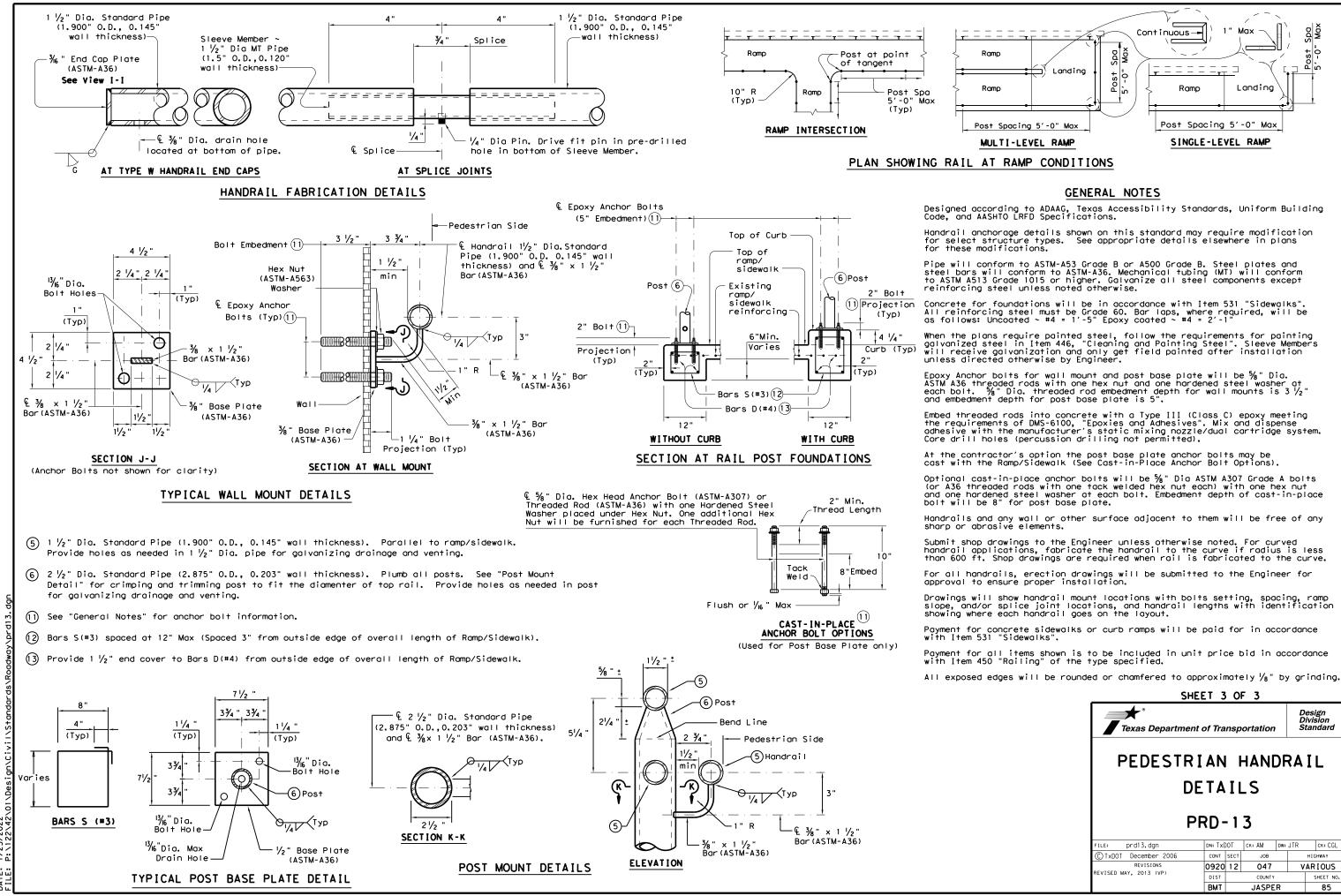




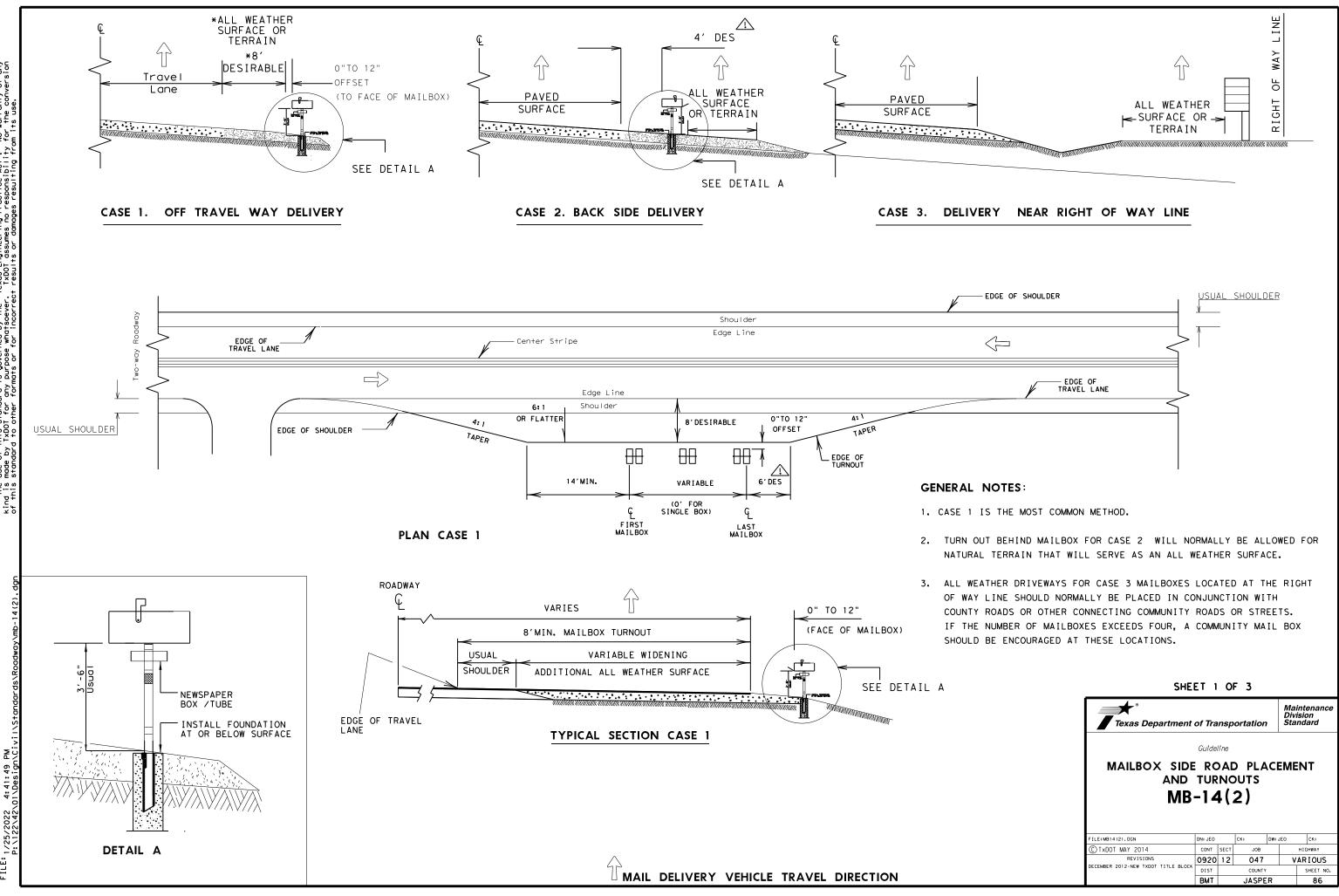
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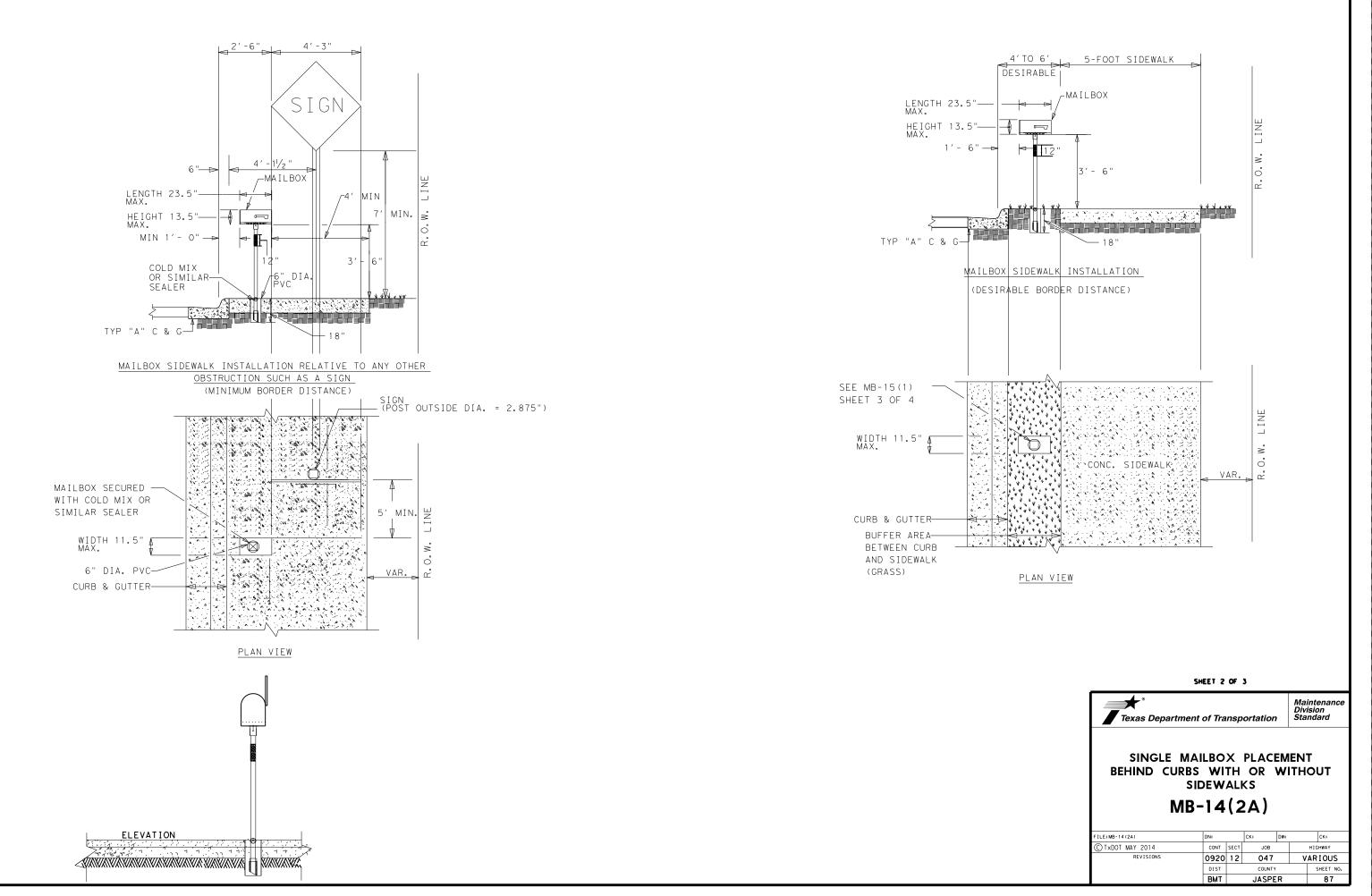
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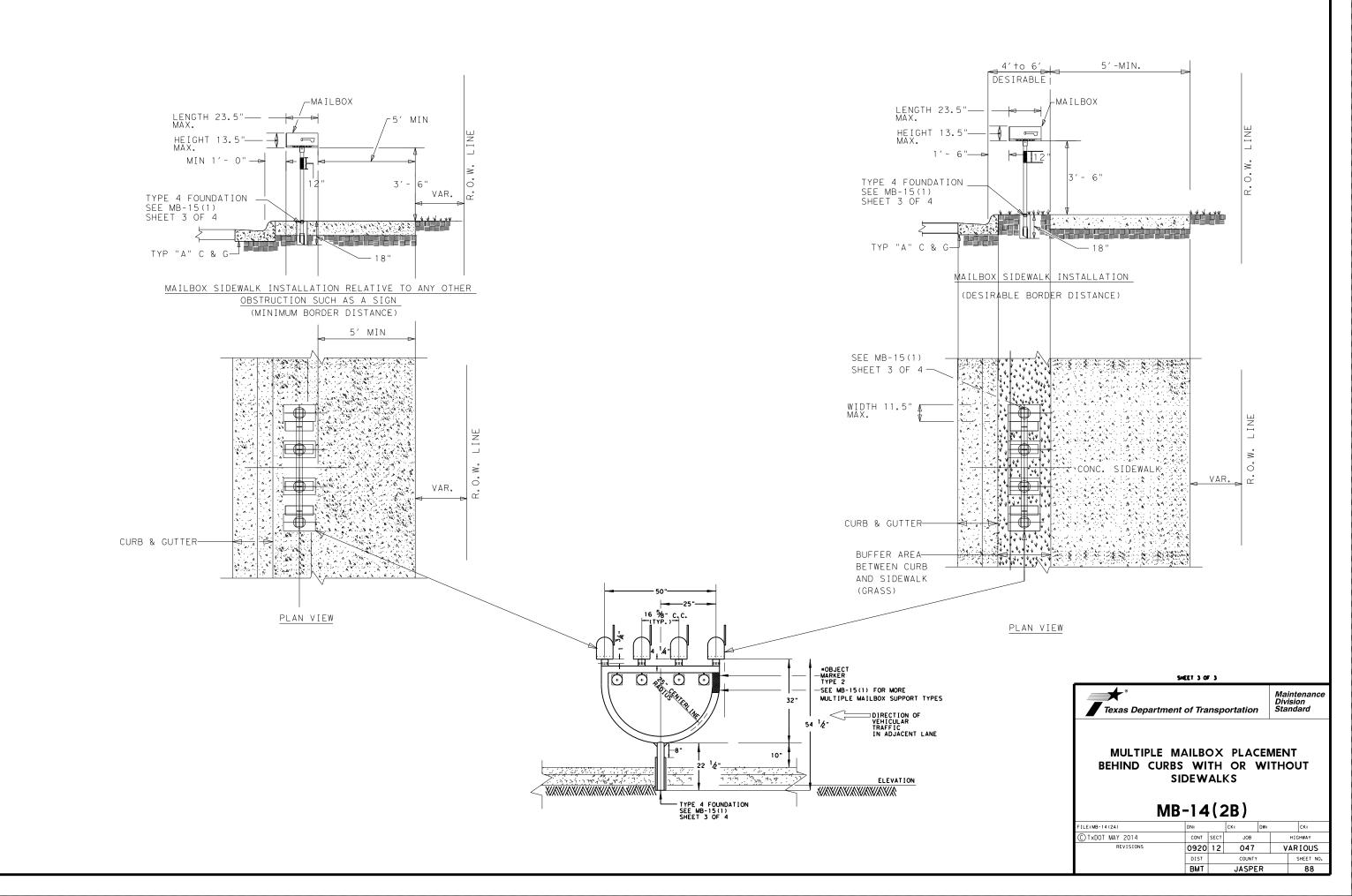
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EDGE OF SHOULDER	USUAL SHOULDER
EDGE OF TRAVEL LANE	>

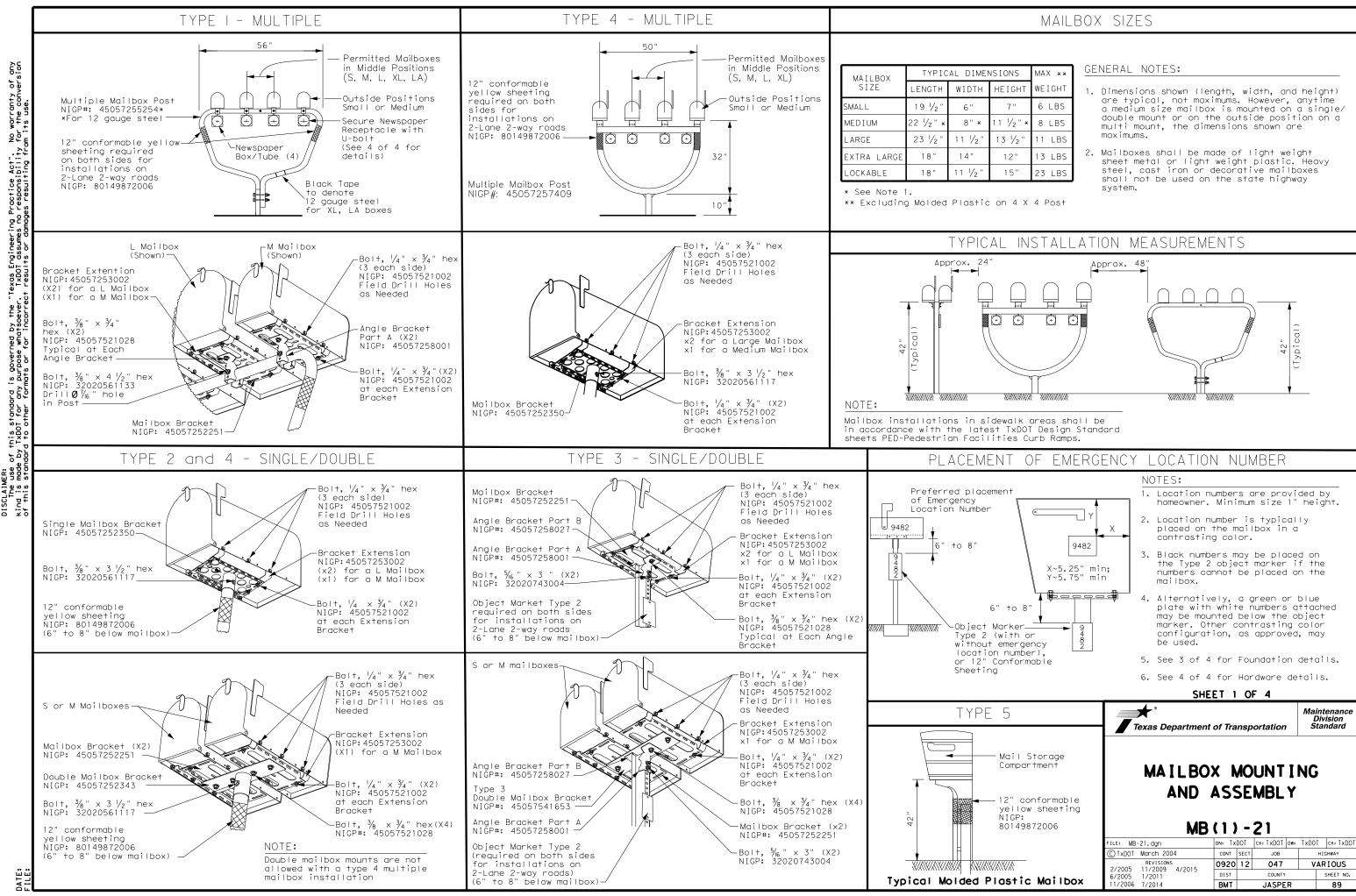
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MAILBOX SIDE AND				ACEN	MENT
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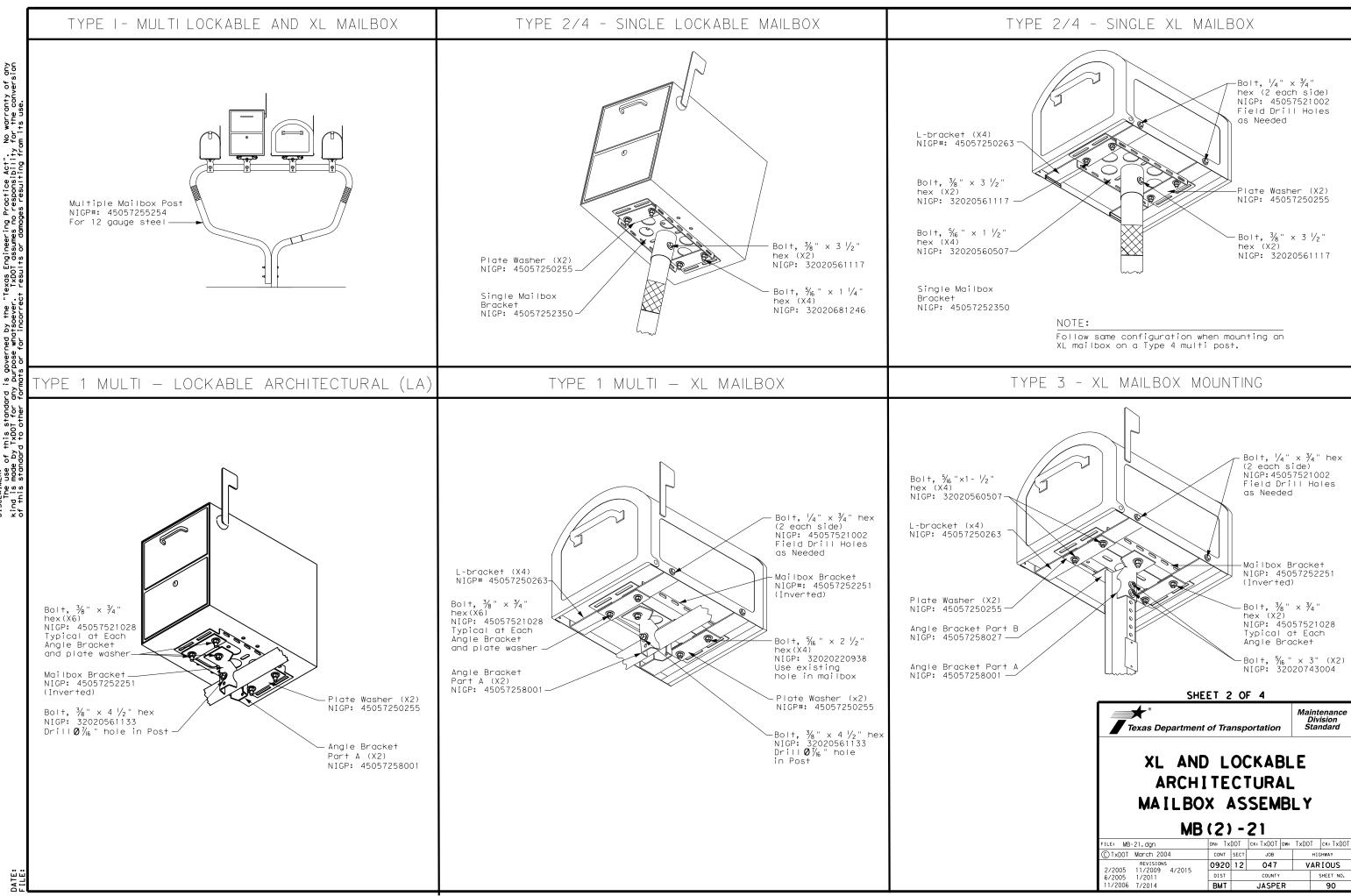
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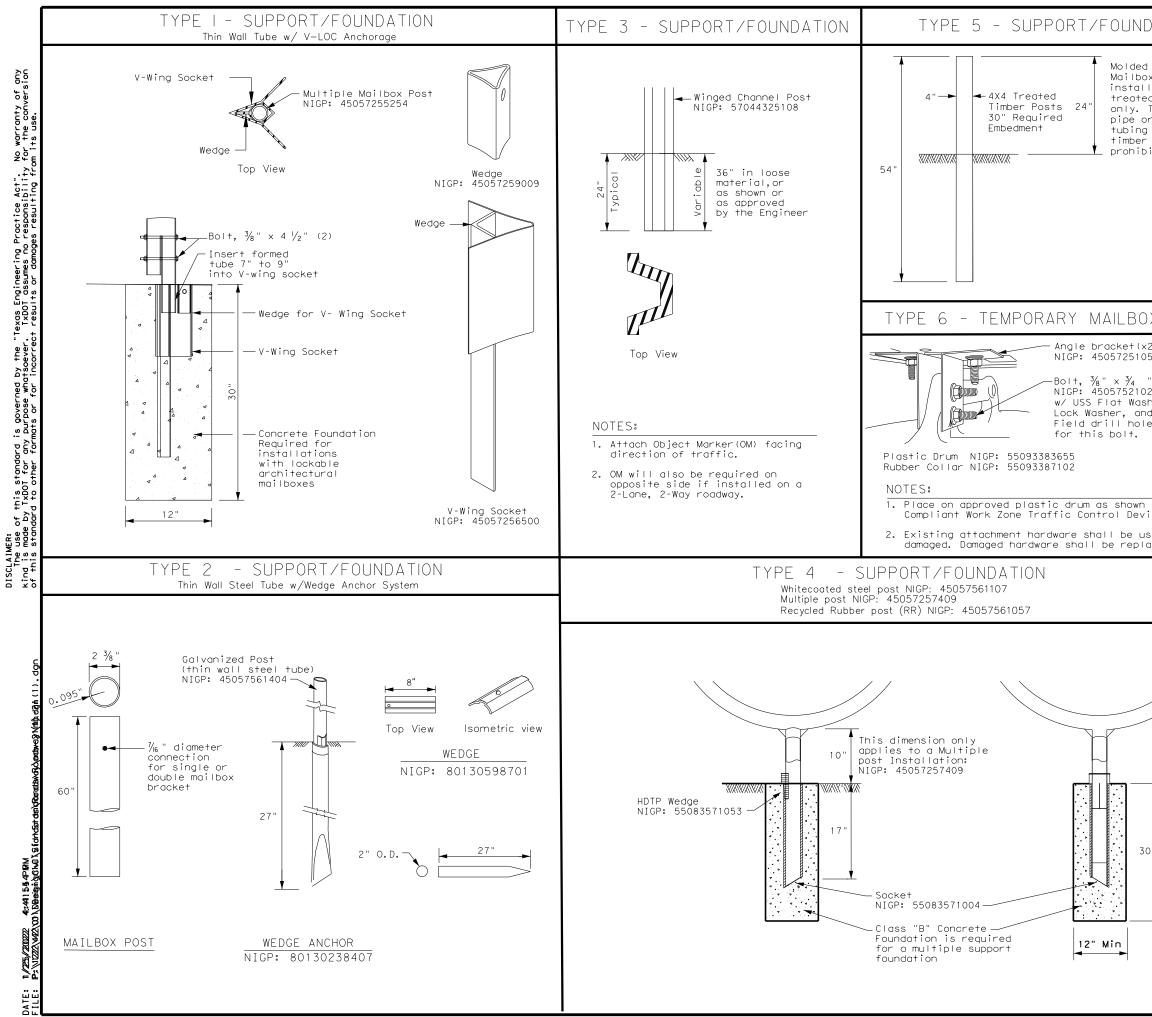
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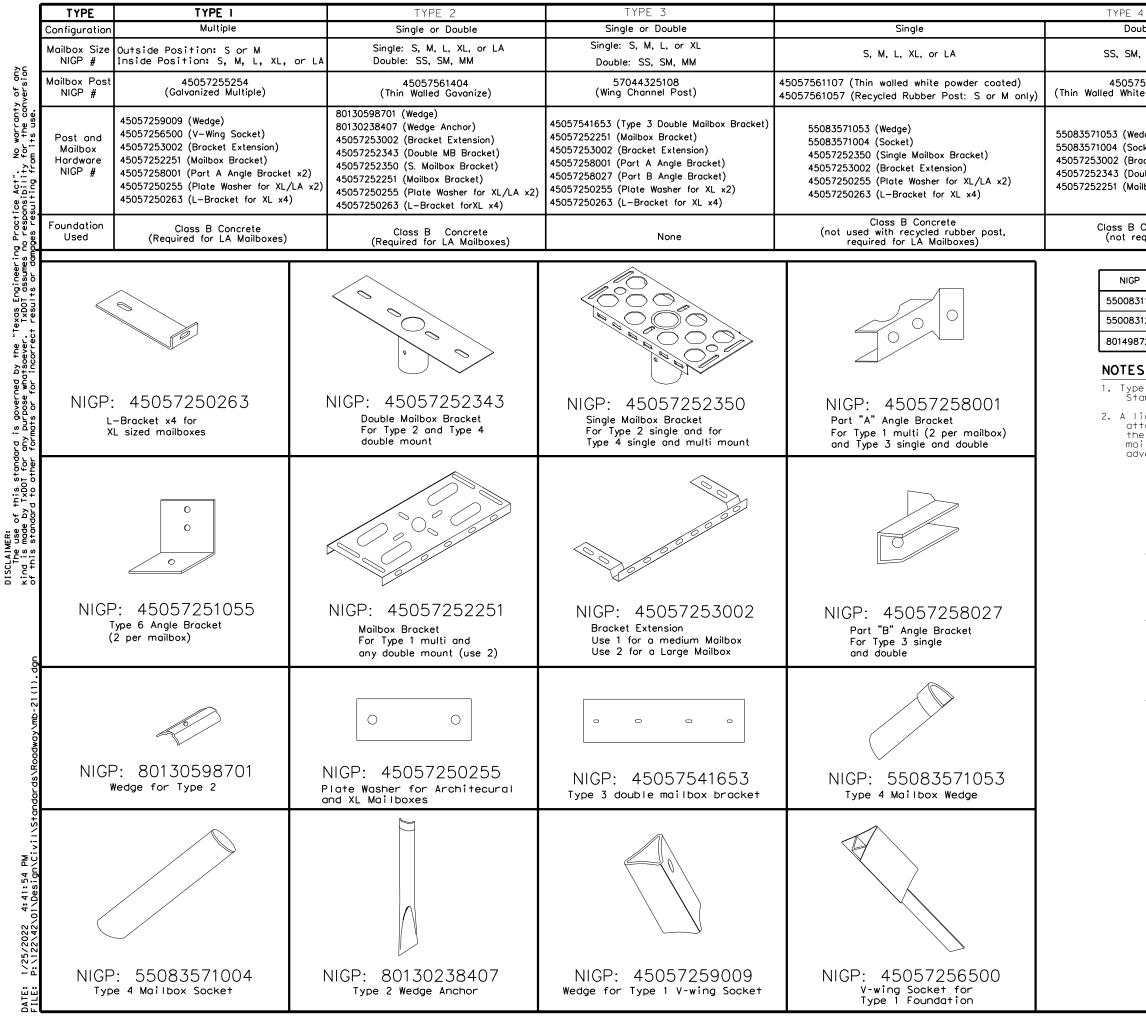
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EIGHT	WEIGHT
7 "	6 LBS
1/2 " *	8 LBS
3 1/ ₂ "	11 LBS
12"	13 LBS
15"	23 LBS



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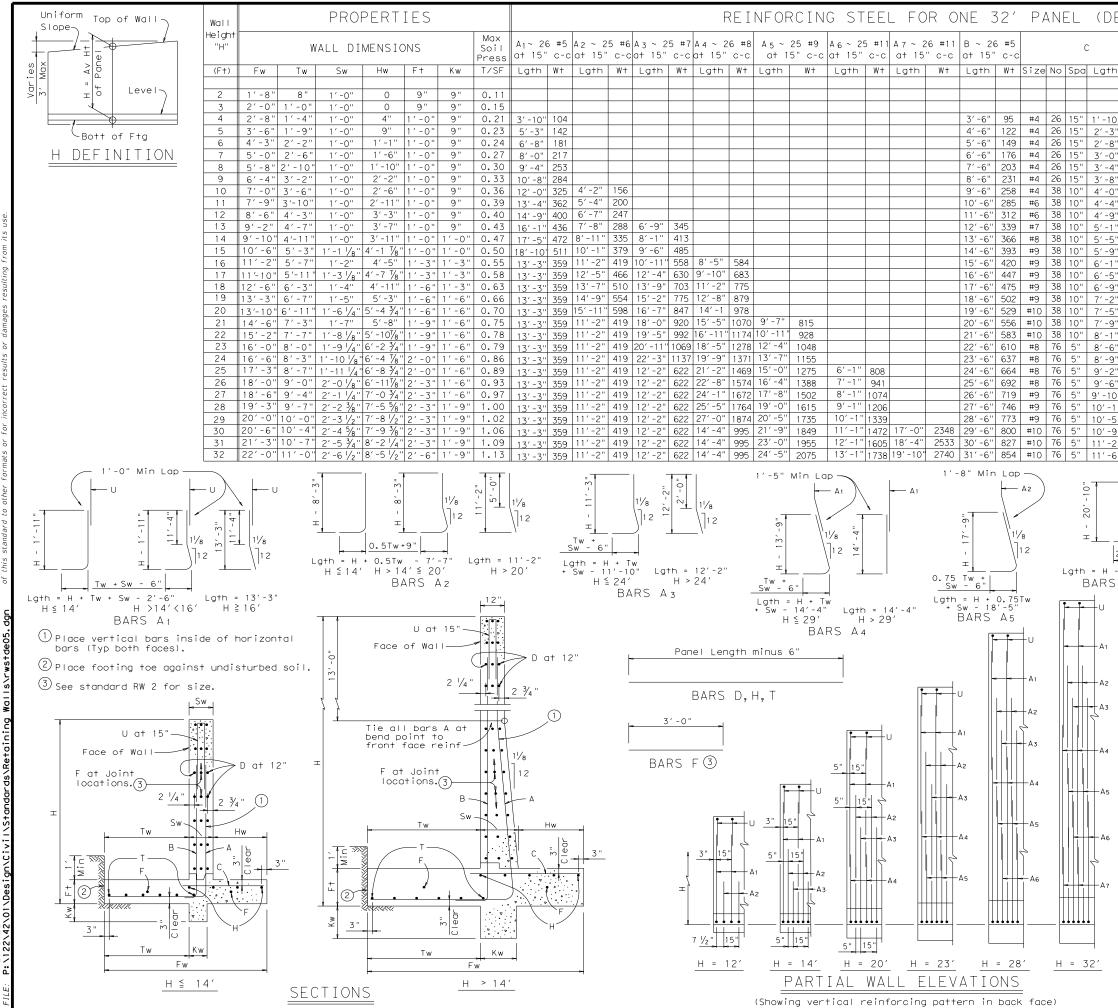


IDATION	GENERAL NOTES:	
	1. Erect post plumb or vertice	
ed Plastic poxes shall be ulled on 4"x4" red timber posts	2. When galvanized part is rea galvanize in accordance wi	
The use of steel or structural ng in place of er post is bited.	3. Use a concrete footing as s when directed. Concrete foo be required when soils do the support/foundations in condition, only on Type 1, and Type 4	oting will not hold a stable
OX SUPPORT		
(x2) 055		
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ushers (2 each) and Hex Nut ale in drum handle		
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	SHEET 3 OF 4	
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4		M. 182-1-	TYPE 5	TYPE 6
ble		Multiple Outside Position: S or M	Single	Single
, or MM	l	Inside Position: S, M, L, or XL	Molded Plastic	S, or M
561107 e Powd	er Coated)	45057257409 (White Powder Coated Multiple)	4x4 Timber	Construction Barrel
uble Mo	ktension) unt Brocket) ocket x2)	55083571053 (Wedge) 55083571004 (Socket) 45057253002 (Bracket Extension) 45057252350 (Single Mount Bracket) 45057250255 (Plate Washer for XL x2) 45057250263 (L-Bracket for XL x4)	None	45057251055 Angle Brocket (x2)
Concret quired)	e	Class B Concrete	None	None
#	OBJE	CT MARKERS AND CONFORMABLE SHEETIN	G	
11759	Type 2 OM	4"x4" (3 Needed) for Type 3 Wing Chann	el Post	
12906	Type 2 OM	6"x12" (1 needed) for Type 3 Wing Chann	el Post	
72006	12" Conforn	nable Reflective Yellow Sheeting for Flexibl	e Posts	
andard ight w tached e mail il, ex vertis E Type S M MP Type WC RR TWW TWW TJM Type	<pre>opelineator eight recep to mailbo: box, preser tend beyond ing, excep of Mailbo = Single = Double = Multiple = Molded f of Post - = Winged = Recycle f = Thin Wa</pre>	e Plastic Channel Post d Rubber Iled White Tubing Iled Galvanized Tubing	n be ot touc ry of t isplay	h
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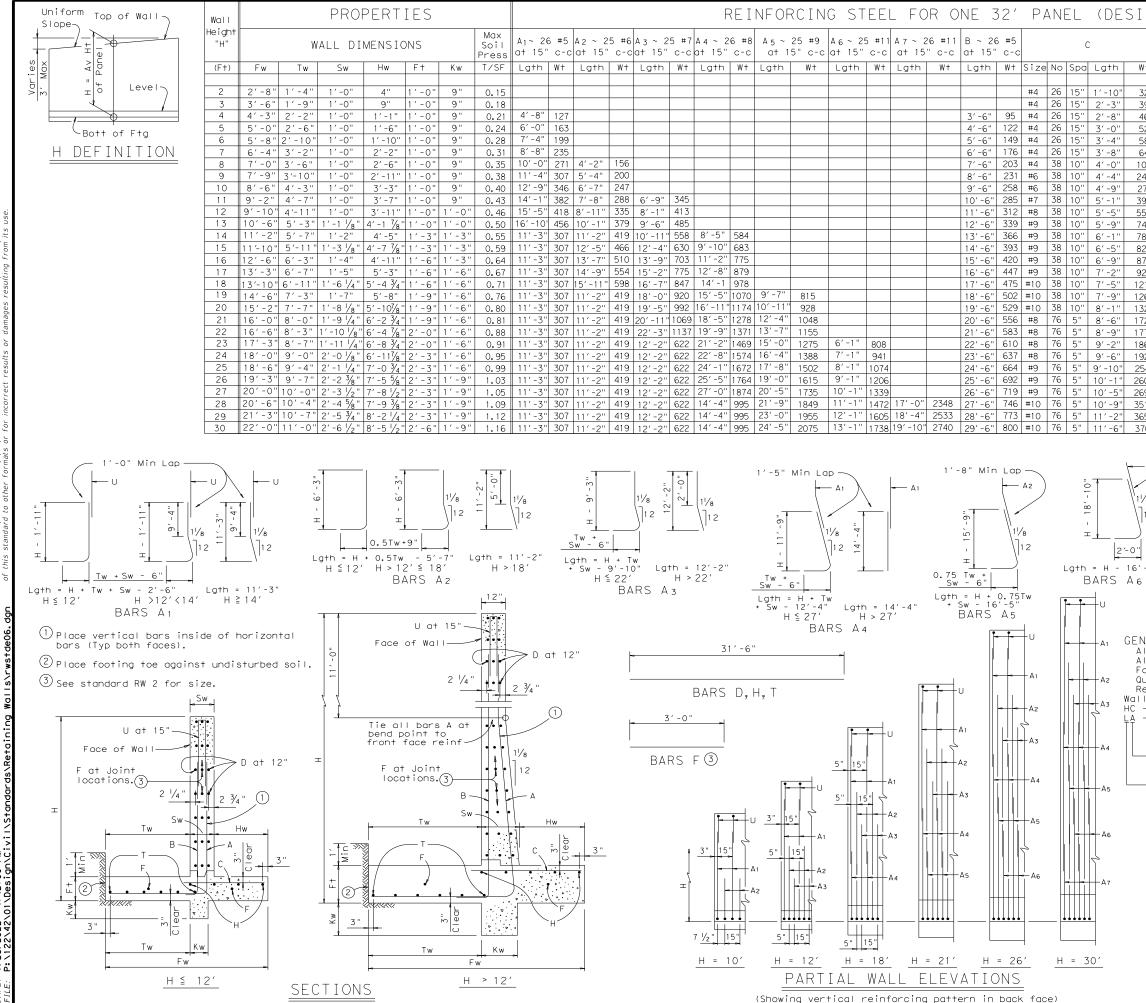
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- 3")"	46	12 14	394 460	8 9	64 72	3 3	99 99	3 3	99 99	8'-4" 8'-4"	226 226	11.6 13.7	1259 1401	6
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3")"	64 102	18 20	591 657	11 12	88 96	3 4	99 131	4	131 131	8'-4" 8'-4"	226 226	17.7 19.6	1714 2082	9 10
1'')''	247 271	22 24	723 789	13 14	104 112	4	131 131	5 5	164 164	8'-4" 8'-4"	226 226	21.7 23.8	2436 2651	11 12
	395	26	854	15	120	5	164	6	197	8'-4"	226	25.8	3364	13
5" 9"	550 743	28 30	920 986	16 17	128 136	56	164 197	6 6	197 197	8'-4" 8'-4"	226 226	28.2 30.3	3771 4253	14 15
" 5"	786 829	32 34	1051 1117	18 19	144 152	6 7	197 230	7	230 230	8'-4" 8'-4"	226 226	36.0 38.5	4974 5369	16 17
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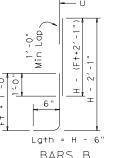


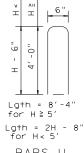
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	510											FOR	ONE	Wall
			(#5) at		el F		(#5)]†		(#5)]†	U ~ 26 at	5 #5	32′F	PANEL	Height "H"
		12"		12"	t c-c		0-0		-0-0		o-c	CONC	REINF	
th	W+	No	W+	No	W+	No	W+	No	W+	Lgth	W+	(CY)	(LB)	(F+)
10"	32	4	131	4	32	2	66	2	66	3'-4"	90	5.0	418	2
-3"	39	6	197	5	40	2	66	3	99	5′-4"	145	7.2	586	3
-8"	46	8	263	6	48	3	99	3	99	7'-4"	199	9.3	976	4
-0"	52	10	329	7	56	3	99	3	99	8'-4"	226	11.3	1146	5
-4"	58	12	394	8	64	3	99	4	131	8'-4"	226	13.3	1321	6
-8"	64	14	460	9	72	3	99	4	131	8'-4"		15.3	1463	7
-0"	102	16	526	10	80	4	131	4	131	8'-4"	226	17.3	1825	8
-4"	247	18	591	11	88	4	131	5	164	8'-4"	226	19.3	2185	9
-9"	271	20	657	12	96	4	131	5	164	8'-4"	226	21.4	2396	10
-1"	395	22	723	13	104	5	164 164	6	197	8'-4"	226	23.4	3103 3515	11
·5"	<u>550</u> 743	24	789 854	14 15	112	5	197	6 6	197 197	8'-4" 8'-4"	226 226	25.9	3996	13
-9" -1"		26	920	16	120	6	197	7	230	8'-4"	226	27.9	4721	14
-5"	786 829	28 30	986	17	128 136	7	230	7	230	8'-4"	226	33.7 36.1	5116	15
-9"	872	30	986	17	136	7	230	8	263	8'-4"	226	41.9	5427	16
-2"	926	32	1051	18	144	7	230	8	263	8'-4"	226	45.7	5802	17
-5"	1213	34	1117	19	152	8	263	8	263	8'-4"	226	48.5	6439	18
-9"	1267	36	1183	20	160	8	263	9	296		226	55.4	7428	19
-1"	1322	38	1248	21	168	8	263	9	296	8'-4"	226	58.7	7872	20
-6"	1725	40	1314	22	176	9	296	10	329	8'-4"	226	62.4	8743	21
-9"	1776	42	1380	23	184	9	296	10	329	8'-4"	226	70.0	9163	22
-2"	1860	44	1446	24	192	9	296	10	329	8'-4"	226	74.0	9859	23
-6"	1928	46	1511	25	200	10	329	11	361	8'-4"	226	82.9	10443	24
10"	2541	48	1577	26	208	10	329	11	361	8'-4"	226	86.6	11502	25
-1"	2606	50	1643	27	217	10	329	12	394	8′-4″	226	92.1	12040	26
-5"	2692	52	1708	28	225	11	361	12	394	8'-4"	226	96.8	12621	27
-9"	3516	54	1774	29	233	11	361	12	394	8'-4"	226	100.9	15261	28
-2"	3652	56	1840	30	241	11	361	13	427	8'-4"	226	105.8	15955	29
-6"	3761	56	1840	30	241	12	394	13	427	8'-4"	226	116.5	16584	30
	A 3 11/8 1 2 16' - 11		2'-3" 3'-		n La Min I		4	=		Min Lap	- (F++2' -1")	2'-1"	H - 6" H ≤ 5' 4'-0" H ≩ 5'	6 -

Ξ Tw + Sw - 6" Lgth = H + Tw + Sw - 23'-9" BARS A7





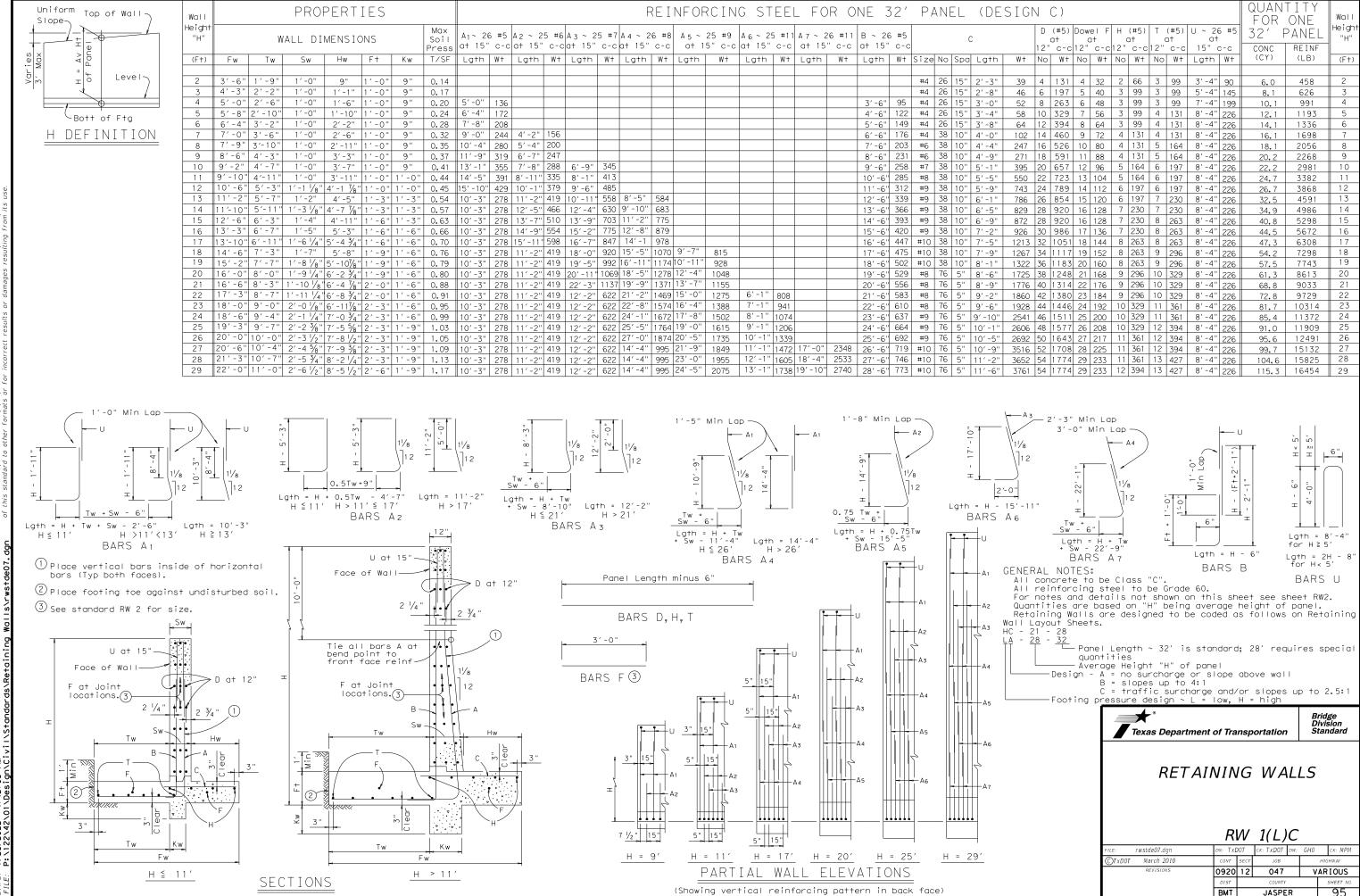
BARS B GENERAL NOTES: BARS U All concrete to be Class "C". All reinforcing steel to be Grade 60. For notes and details not shown on this sheet see sheet RW2. Retaining Walls are designed to be coded as follows on Retaining Wall Layout Sheets. HC - 21 - 28 Quantities are based on "H" being average height of panel. LA - <u>28</u> - <u>32</u> Panel Length ~ 32' is standard; 28' requires special quantities Average Height "H" of panel -Design - A = no surcharge or slope above wall B = slopes up to 4:1 C = traffic surcharge and/or slopes up to 2.5:1 C = traffic surcharge and/or slopes up to 2.5:1 -Footing pressure design ~ L = low, H = high_**_**_ Briddo

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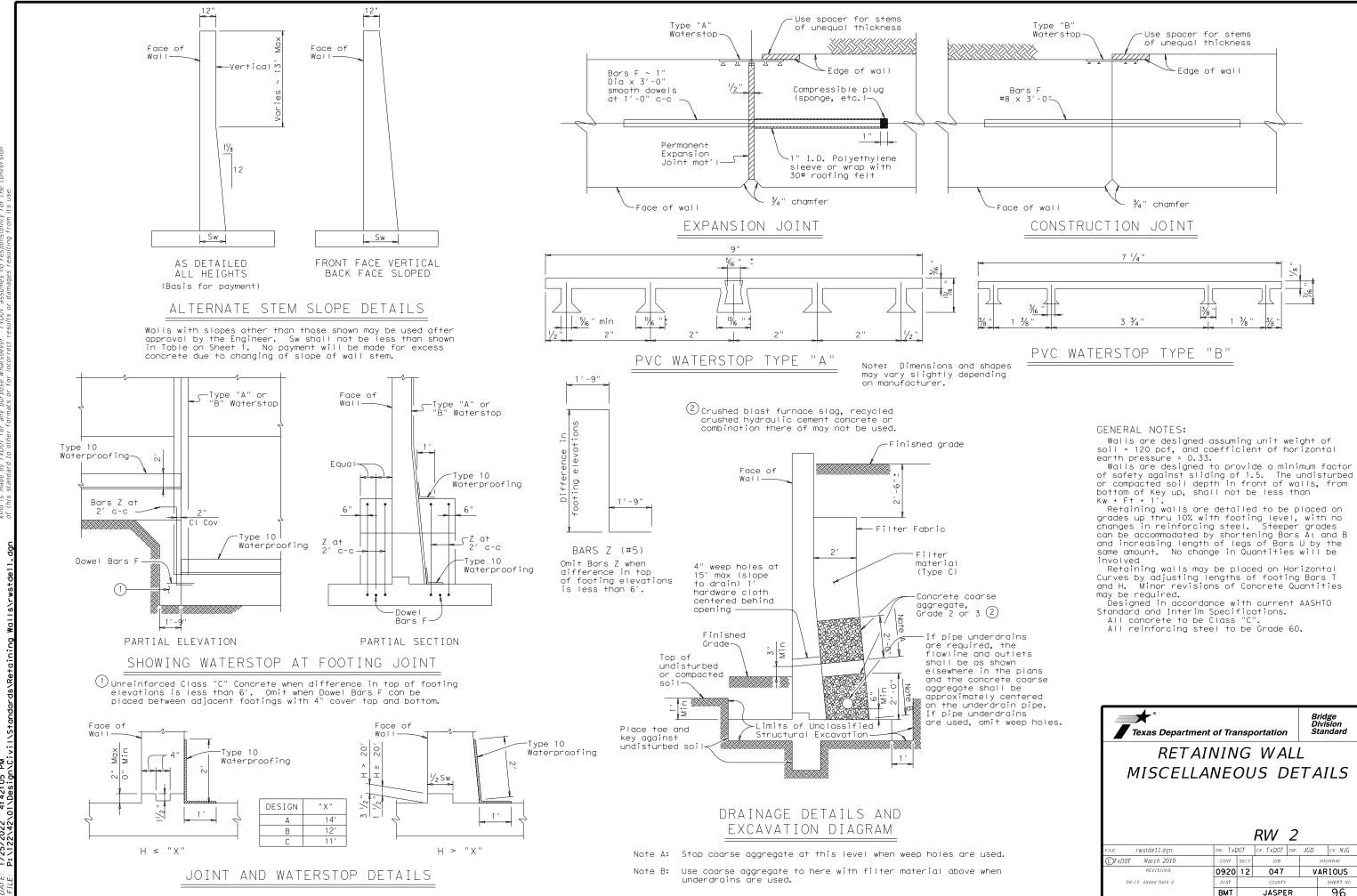
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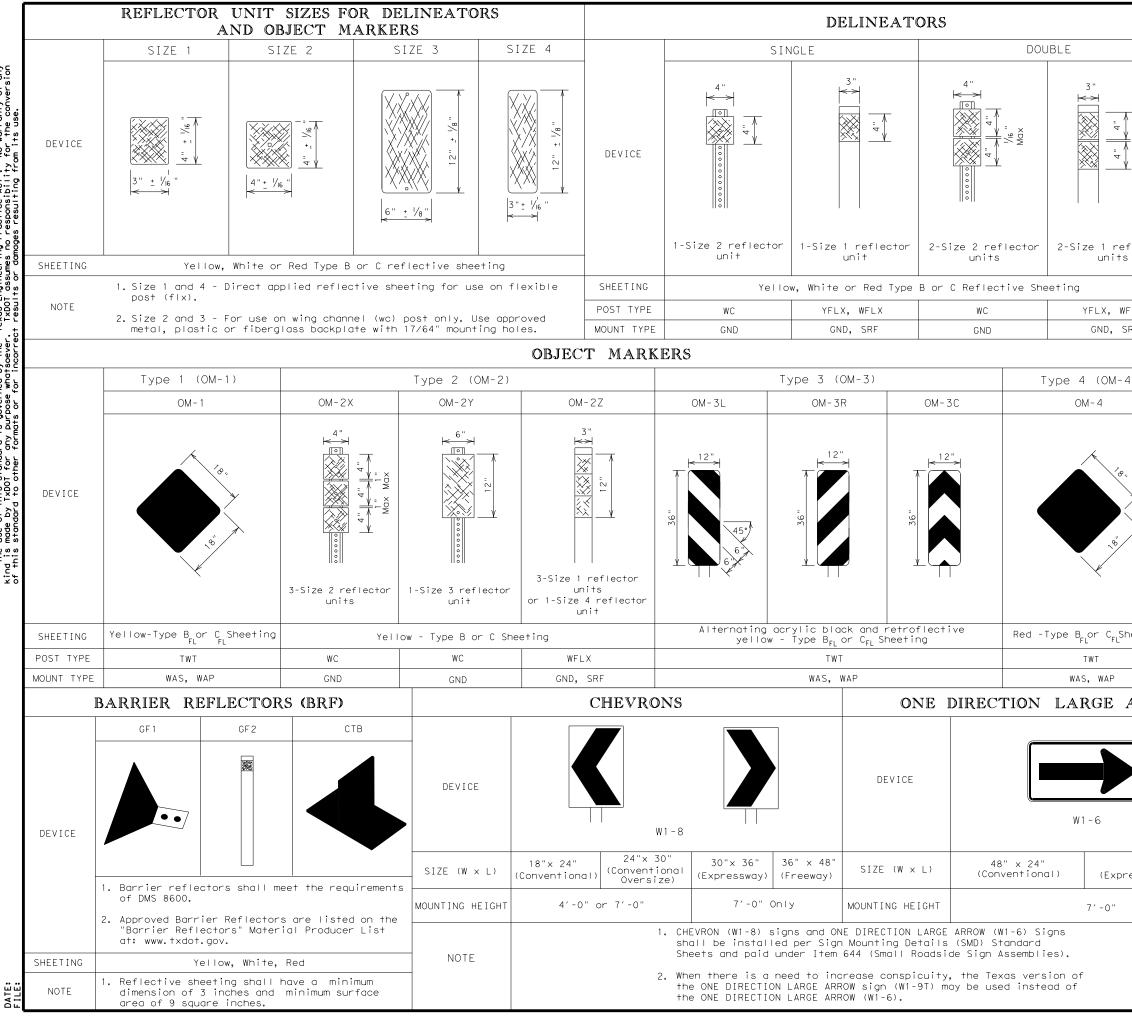


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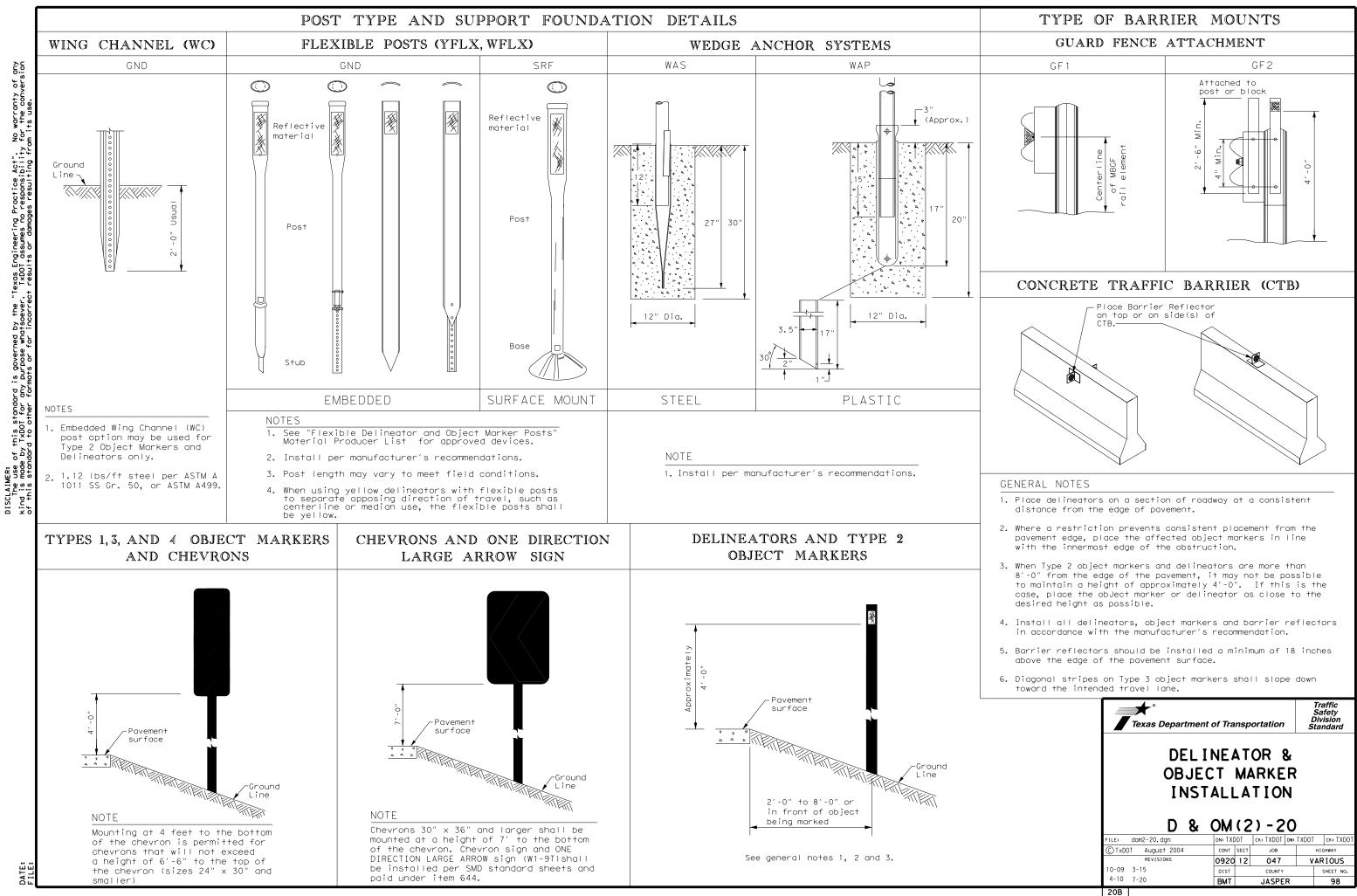
ESIGN C) QUANTITY FOR ONE										Wall				
		D			el F		(#5)		(#5)	U~26	5 #5	32′ PANEL		Height "H"
		12"	at c-c	12"	1† c-c		t c-c		з† с-с	at 15" (CONC REINF		н
h	W+	No	W+	No	W+	No	W+	No	W+	Lgth	W+	(CY)	(LB)	(F+)
		110		140		110		140		Lgin				
	39	4	131	4	32	2	66	3	99	3'-4"	90	6.0	458	2
	46	6	197	5	40	3	99	3	99	5'-4"	145	8.1	626	3
п	52	8	263	6	48	3	99	3	99	7'-4"	199	10.1	991	4
	58	10	329	7	56	3	99	4	131	8'-4"	226	12.1	1193	5
	64	12	394	8	64	3	99	4	131	8'-4"	226	14.1	1336	6
	102	14	460	9	72	4	131	4	131	8'-4"	226	16.1	1698	7
0	247	16	526	10	80	4	131	5	164	8'-4"	226	18.1	2056	8
п	271	18	591	11	88	4	131	5	164	8'-4"	226	20.2	2268	9
	395	20	657	12	96	5	164	6	197	8'-4"	226	22.2	2981	10
	550	22	723	13	104	5	164	6	197	8'-4"	226	24.7	3382	11
n.	743	24	789	14	112	6	197	6	197	8'-4"	226	26.7	3868	12
	786	26	854	15	120	6	197	7	230	8'-4"	226	32.5	4591	13
	829	28	920	16	128	7	230	7	230	8'-4"	226	34.9	4986	14
"	872	28	920	16	128	7	230	8	263	8'-4"	226	40.8	5298	15
л.	926	30	986	17	136	7	230	8	263	8'-4"	226	44.5	5672	16
"	1213	32	1051	18	144	8	263	8	263	8'-4"	226	47.3	6308	17
"	1267	34	1117	19	152	8	263	9	296	8'-4"	226	54.2	7298	18
	1322	36	1183	20	160	8	263	9	296	8'-4"	226	57.5	7743	19
."	1725	38	1248	21	168	9	296	10	329	8'-4"	226	61.3	8613	20
"	1776	40	1314	22	176	9	296	10	329	8'-4"	226	68.8	9033	21
.0	1860	42	1380	23	184	9	296	10	329	8'-4"	226	72.8	9729	22
"	1928	44	1446	24	192	10	329	11	361	8'-4"	226	81.7	10314	23
)"	2541	46	1511	25	200	10	329	11	361	8'-4"	226	85.4	11372	24
1"	2606	48	1577	26	208	10	329	12	394	8'-4"	226	91.0	11909	25
5"	2692	50	1643	27	217	11	361	12	394	8'-4"	226	95.6	12491	26
3"	3516	52	1708	28	225	11	361	12	394	8'-4"	226	99.7	15132	27
2"	3652	54	1774	29	233	11	361	13	427	8'-4"	226	104.6	15825	28
5"	3761	54	1774	29	233	12	394	13	427	8'-4"	226	115.3	16454	29

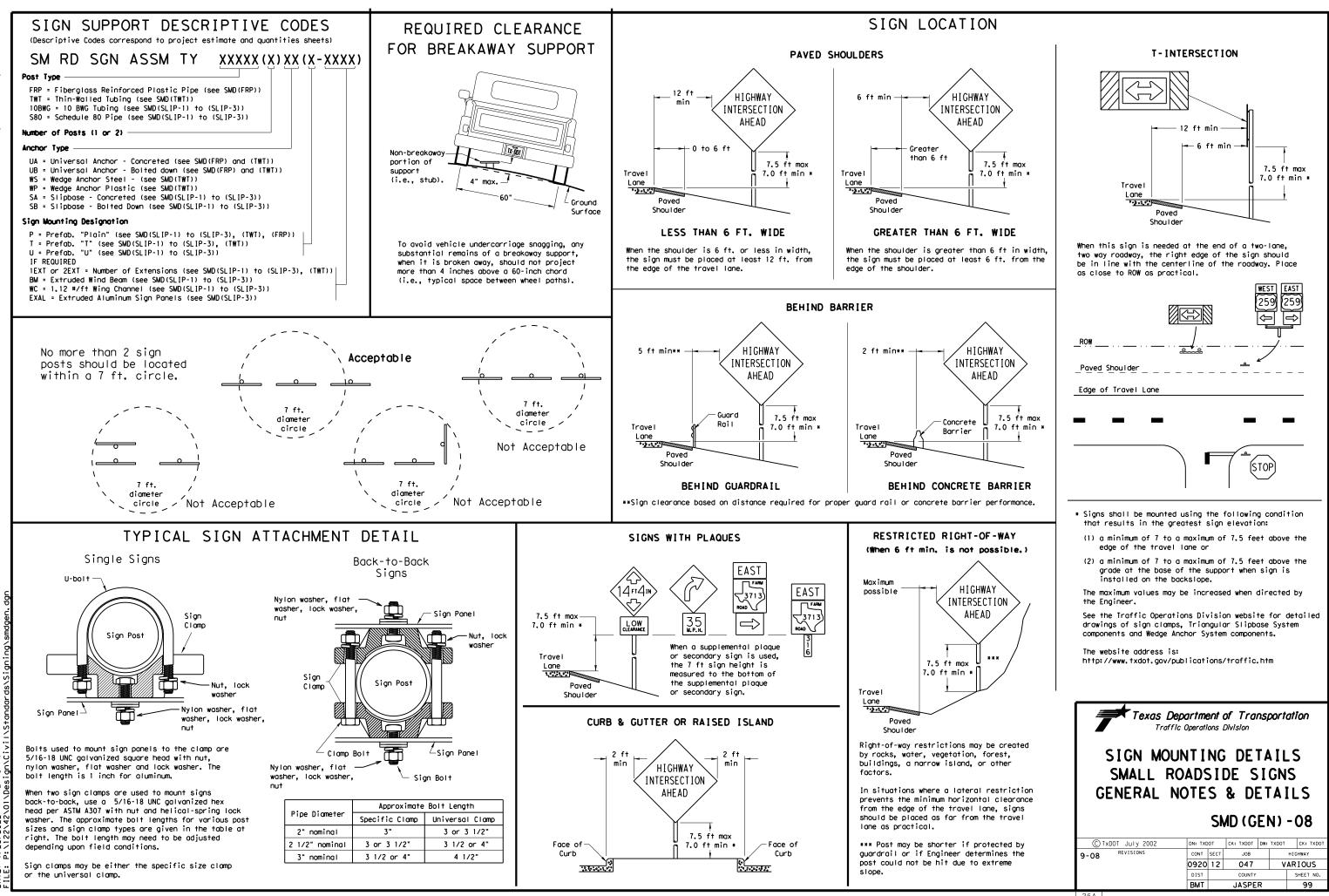




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	\mathbb{D}	& OM	DESCRI	PTIVE	CODES	5
	INSTL [del as	SM (D-)	(X)SZ X	(XXXX))	(XX (XX)
	NUMBER OF F S = Single D = Double COLOR OF RE W = White Y = Yellow R = Red REFLECTOR L 1 or 2 TYPE OF POS	REFLECTORS - EFLECTORS - UNIT SIZE -				
flector	WFLX = Whi BRF = Barn TYPE OF MOL GND = Ember CTB = Concr GF1 or GF2 SRF = Surfe	dded (drival rete Barrie = Guard Fei	Post tor ble or set in			
	DIRECTION - If Require					
FLX	BI = Bi-Di BR = Bi-Di		ith red on bac	ck		
SRF	INSTL (OM ASS	M (OM-XX)	$(\underline{X}\underline{X}\underline{X}\underline{X}\underline{X})\underline{X}$	<u>(XX</u> (XX)
	TYPE OF OB. 1, 2, 3, or		R			
4)	NUMBER OF F X = 3-Size 2	REFLECTORS 2 reflector u	OR DIRECTION units (Type 2 or unit (Type 2 on)	y)		
	Z = 3-Size 1	or 1-Size 4	l reflector unit bject Marker onl	t(s)(Type 2 or	nly)	
0	R = Right Si C = Center (TYPE OF POS	de (Type 3 C Type 3 Objec T Channel Po Te Flexible)bject Marker or ct Marker only) ost Post			
	TYPE OF MOL GND = Embec SRF = Surfc WAS = Wedge	dded (drivat ace Mount				
\rightarrow	WAP = Wedge					
	DIRECTION - If Required BI = Bi-Dir					
	DEPA	RTMENTA	L MATERIA	L SPECIF	ICATIO	٧S
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heeting	SIGN FAC	CE MATERIA	LS		DMS	-8300
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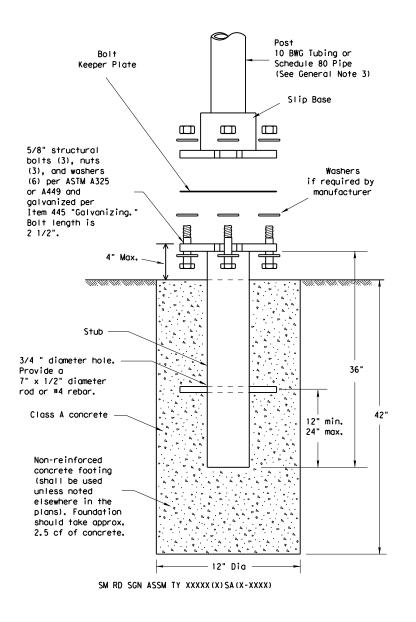




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TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

- 10 BWG Tubing (2.875" outside diameter)
- 0.134" nominal wall thickness
- 55,000 PSI minimum yield strength 70,000 PSI minimum tensile strength
- 20% minimum elongation in 2"
- Schedule 80 Pipe (2.875" outside diameter)
- 0.276" nominal wall thickness Steel tubing per ASTM A500 Gr C
- 46,000 PSI minimum yield strength 62,000 PSI minimum tensile strength
- 21% minimum elongation in 2"
- Galvanization per ASTM A123

ASSEMBLY PROCEDURE

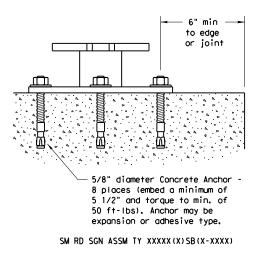
Foundation

- direction.

Support

- straight.
- clearances based on sign types.

CONCRETE ANCHOR



Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives, " Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normalweight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

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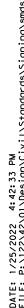
1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer. Material used as post with this system shall conform to the following specifications: Seamless or electric-resistance welded steel tubing or pipe Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008 Other steels may be used if they meet the following: Wall thickness (uncoated) shall be within the range of 0.122" to 0.138" Outside diameter (uncoated) shall be within the range of 2.867" to 2.883" Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833. Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following: Wall thickness (uncoated) shall be within the range of 0.248" to 0.304" Outside diameter (uncoated) shall be within the range of 2.855" to 2.895" 3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: http://www.txdot.gov/publications/traffic.htm 4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

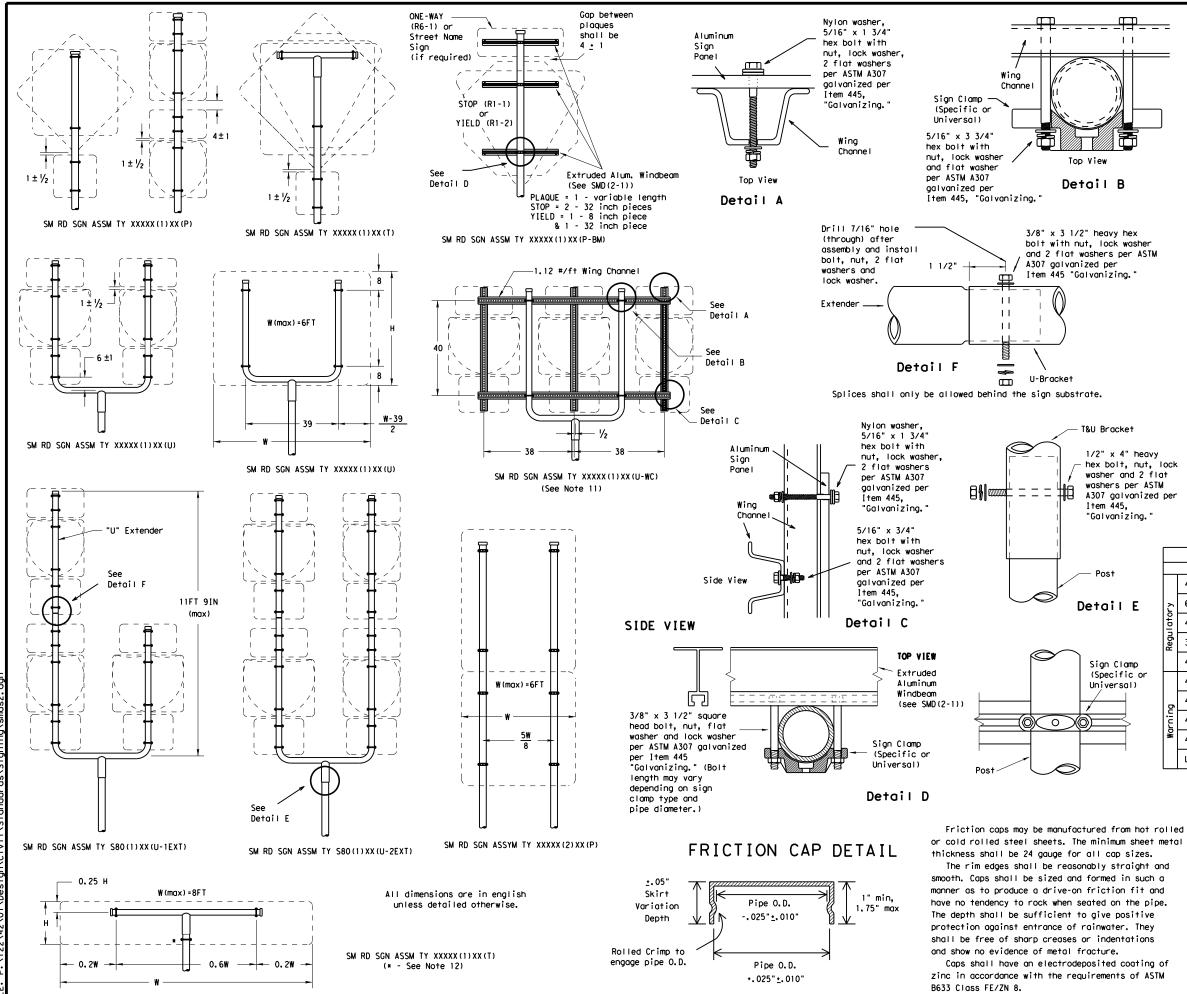
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock. 2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable. motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A. 3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground. 4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer. 5. The triangular slipbase system is multidirectional and is designed to release when struck from any

1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and

2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for

Texas Department of Transportation Traffic Operations Division										
SIGN MOU	NTI	NG	; DE	ΤΑΙι	s					
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26B										







1/2" x 4" heavy hex bolt, nut, lock washer and 2 flat washers per ASTM A307 galvanized per "Galvanizing."

GENERAL NOTES:

1.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.

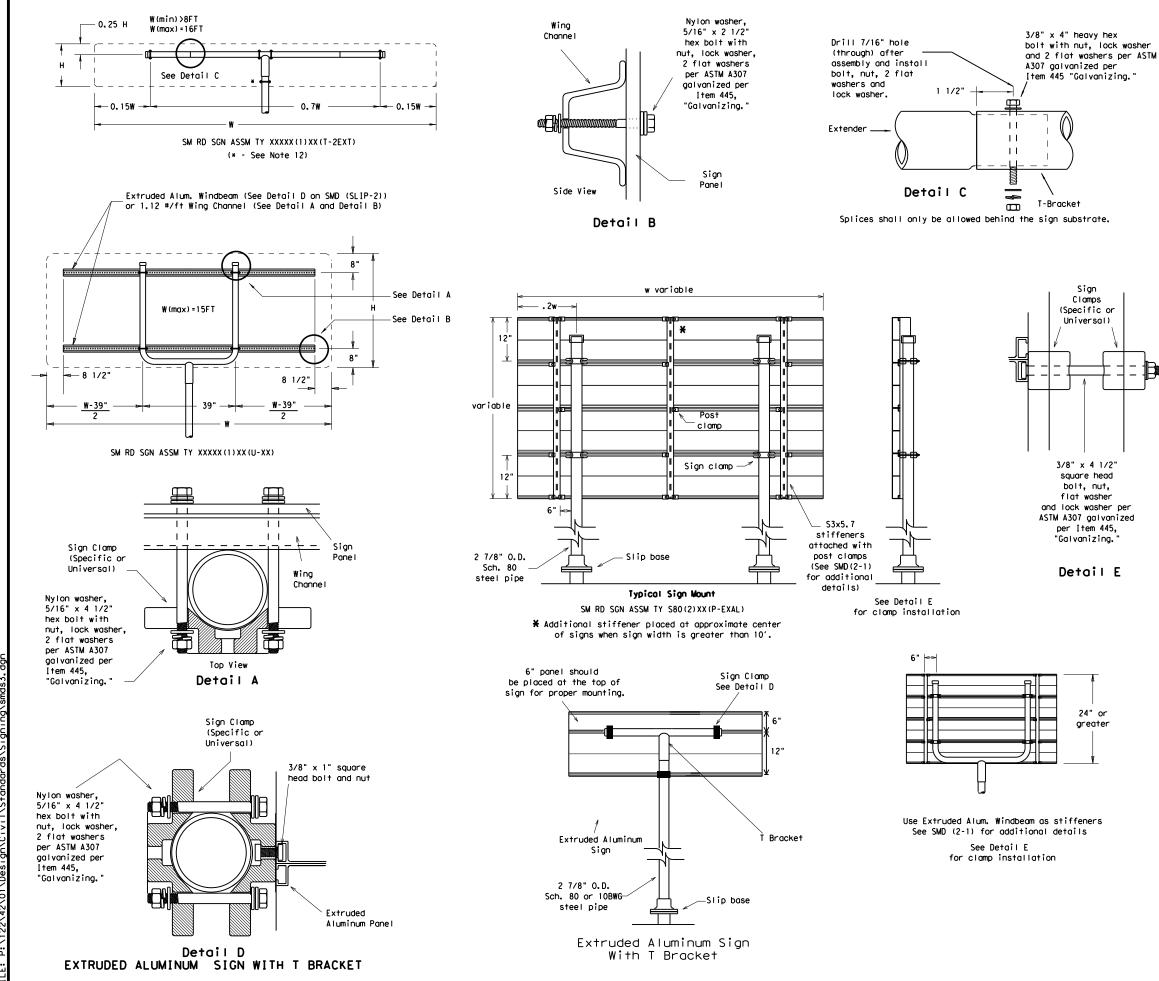
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- 5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- 6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of areater height.
- 7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently
- when impacted by an errant vehicle. 8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- 10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps. 13. Sign blanks shall be the sizes and shapes shown on the plans.

	REQUIRED SUPPORT						
		SIGN DESCRIPTION	SUPPORT				
		48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
	2	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
	Regulatory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
	Regu	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)				
		48x60-inch signs	TY \$80(1)XX(T)				
or		48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)				
	5	48x60-inch signs	TY \$80(1)XX(T)				
	Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)				
	No.	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)				
		Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)				

Texas Department of Transportation Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-2)-08

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GENERAL NOTES:

1.

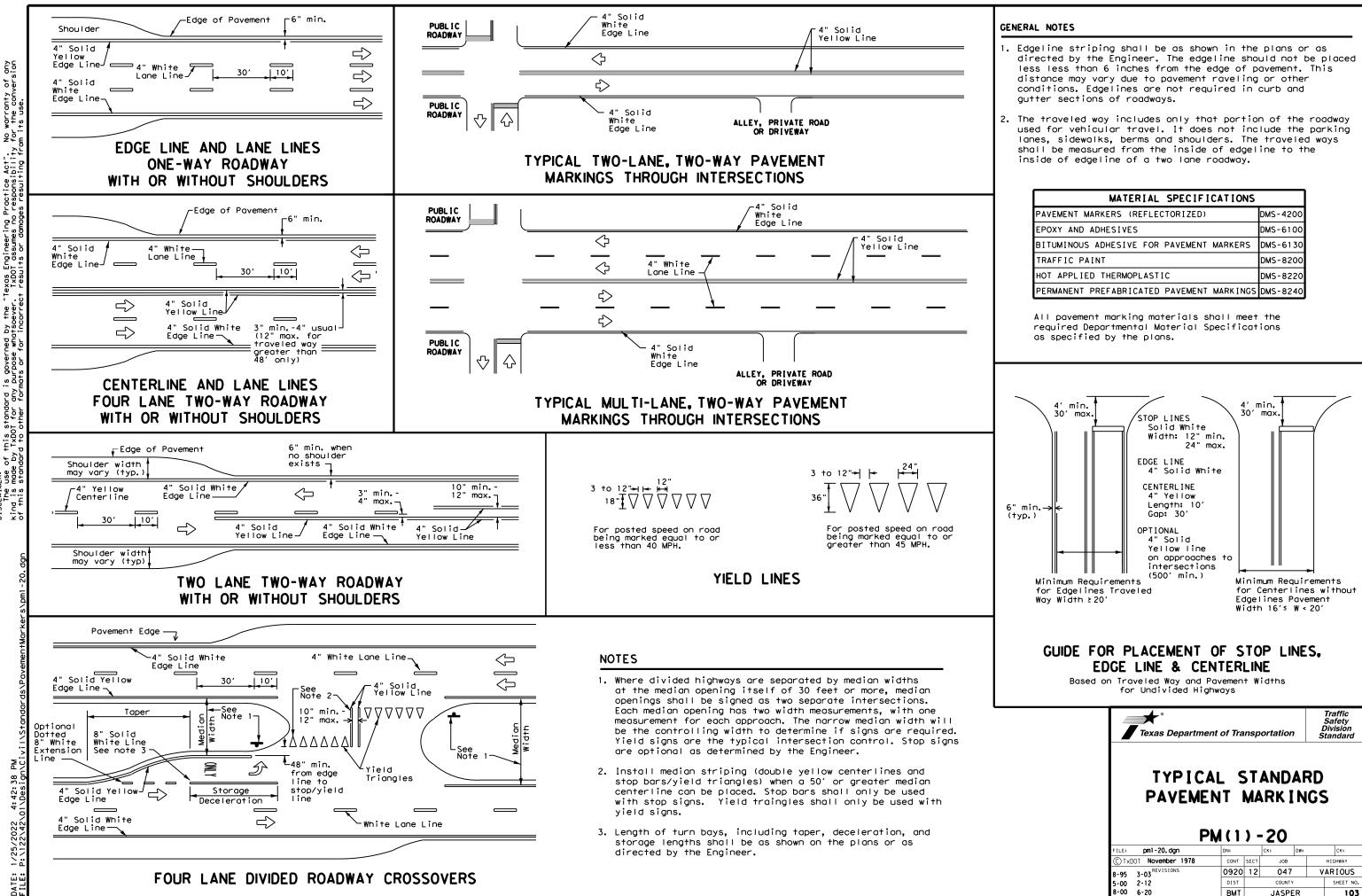
SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA	
10 BWG	1	16 SF	
10 BWG	2	32 SF	
Sch 80	1	32 SF	
Sch 80	2	64 SF	

- 2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
 5. Signs that require specific supports due to reasons
- in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet. 6. For horizontal rectangular signs fabricated from flat
- aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height. 7. When two triangular slipbase supports are used to
- support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- 8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
 9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel
- (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- 10. Sign blanks shall be the sizes and shapes shown on the plans.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPORT						
	SIGN DESCRIPTION SUPPORT					
	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
2	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
Regulatory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)				
Regu	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)				
	48x60-inch signs	TY \$80(1)XX(T)				
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)				
þ	48x60-inch signs	TY \$80(1)XX(T)				
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)				
No	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)				
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)				

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SIGN MOUN SMALL ROA TRIANGULAR S	ADS SL I	SII P	DES	I	GN SY	S Sten
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24" or

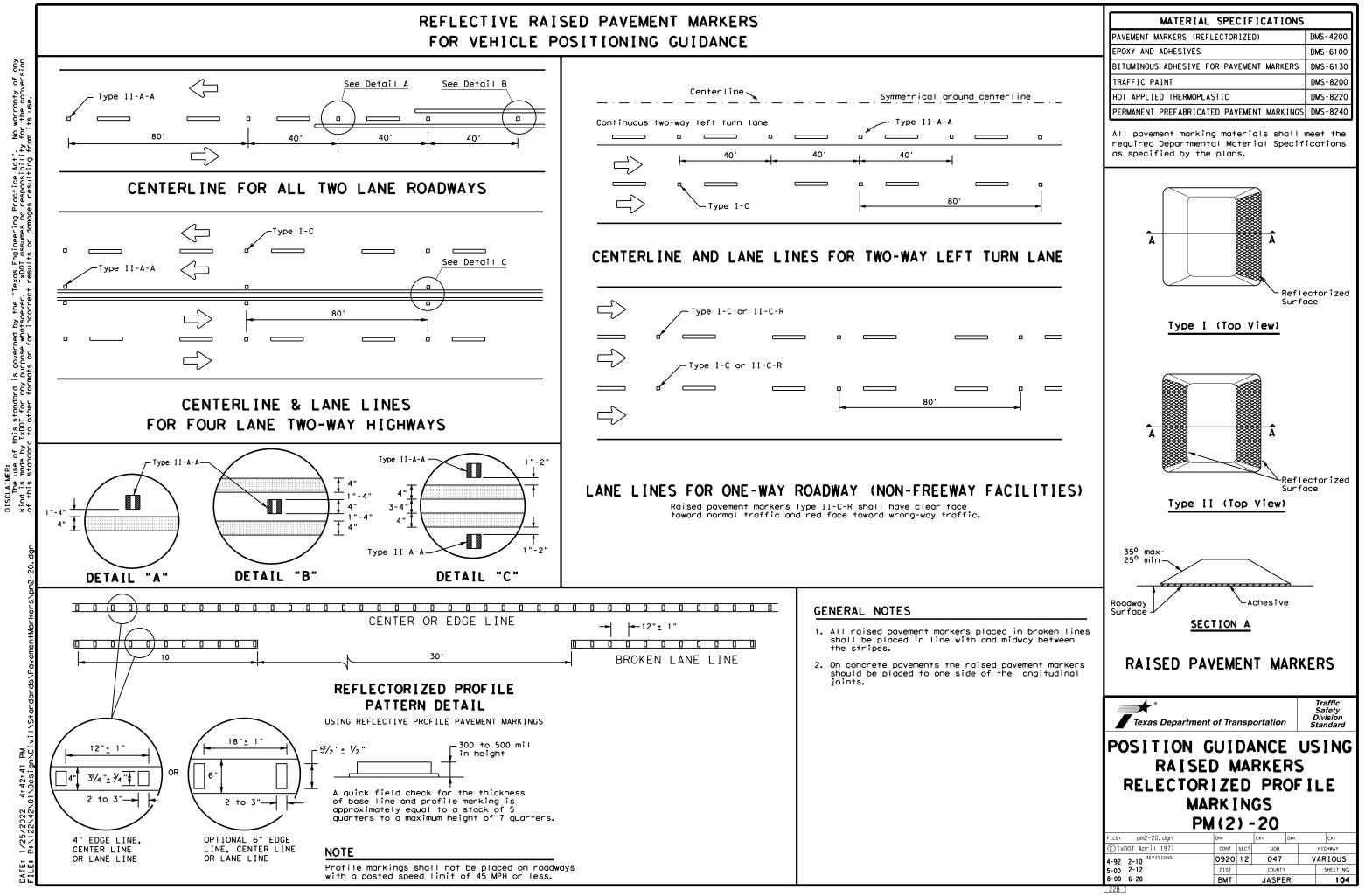


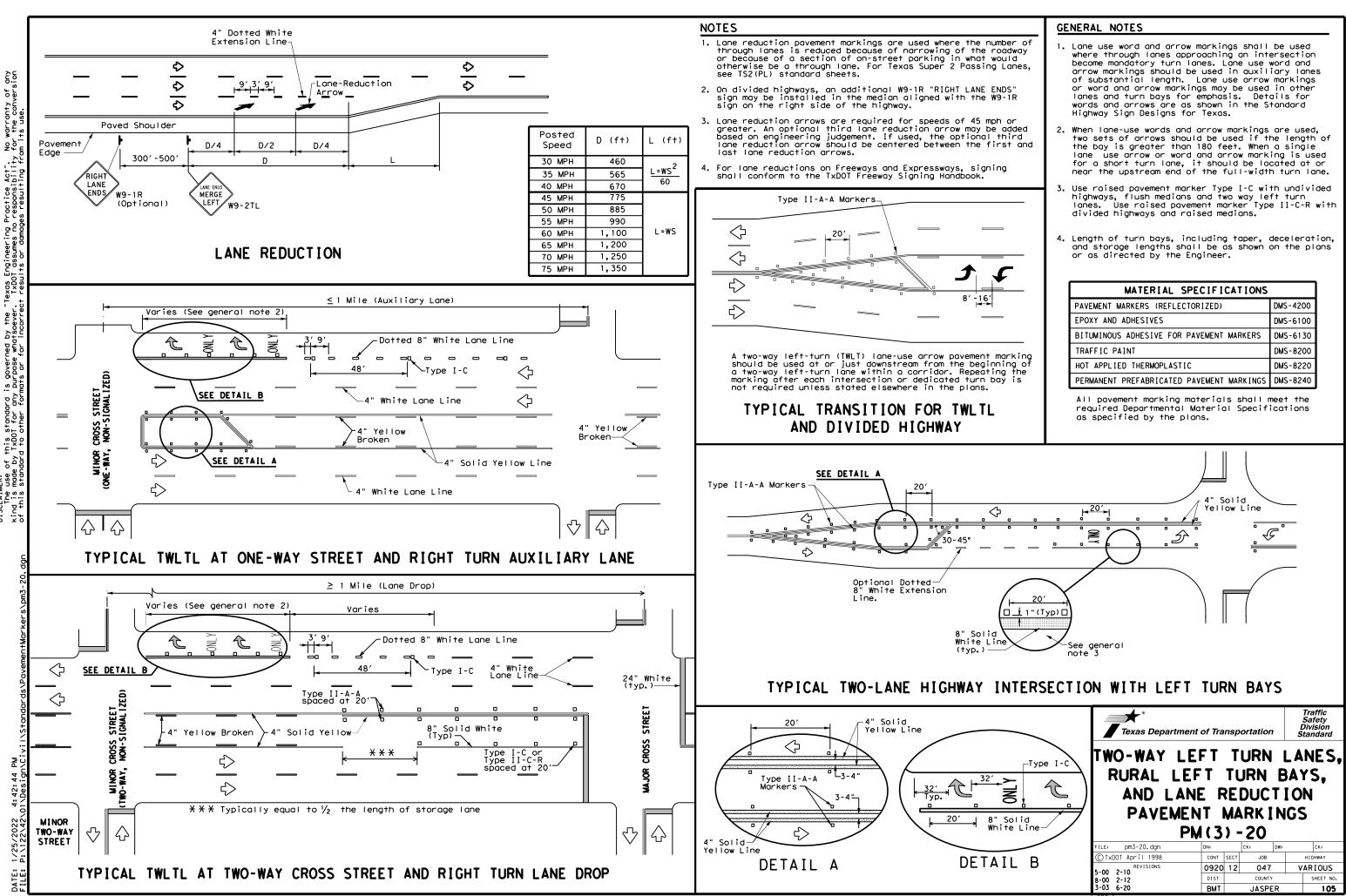
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MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

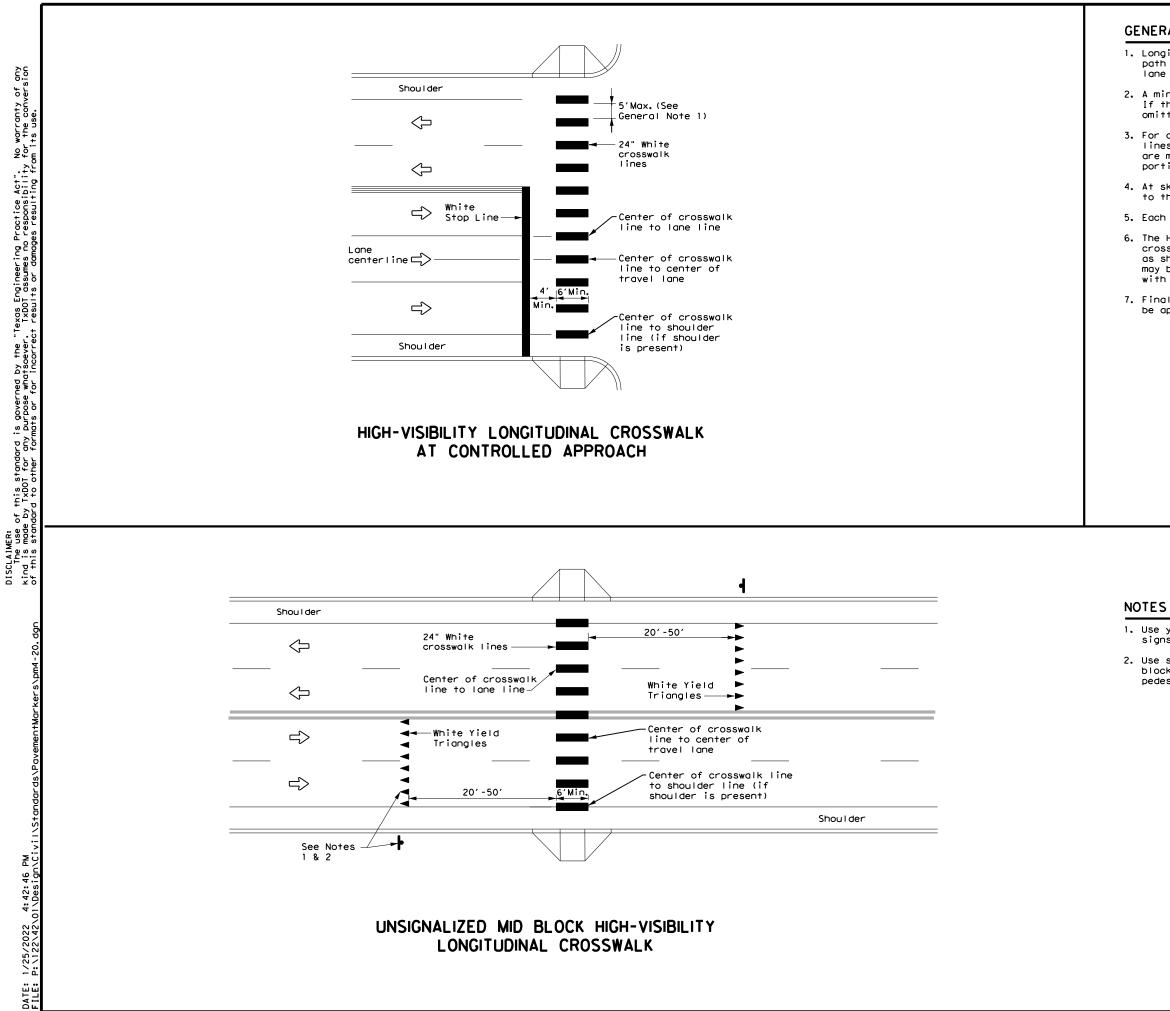
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REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE





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GENERAL NOTES

1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes, lane lines, and shoulder lines (if present).

2. A minimum 6" clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance it must be omitted.

3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.

4. At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.

5. Each crosswalk shall be a minimum of 6' wide.

6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices."

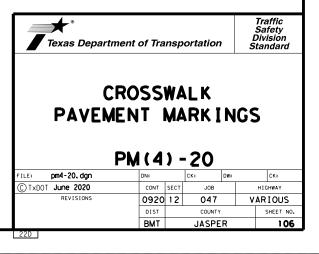
7. Final placement of Stop Bar/Yield Triangles and Crosswalk shall be approved by the Engineer in the field.

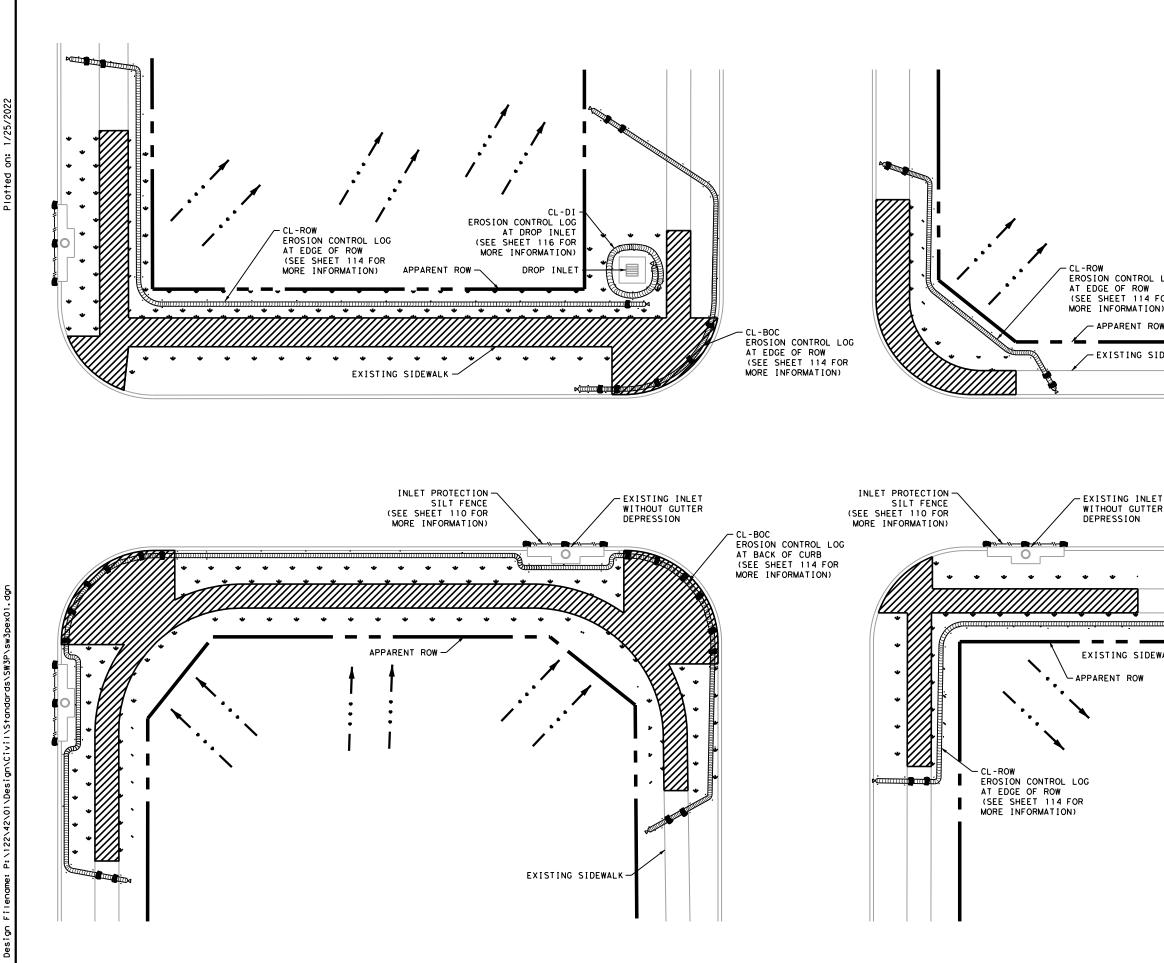
MATERIAL SPECIFICATIONS					
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EPOXY AND ADHESIVES	DMS-6100				
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130				
TRAFFIC PAINT	DMS-8200				
HOT APPLIED THERMOPLASTIC	DMS-8220				
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240				

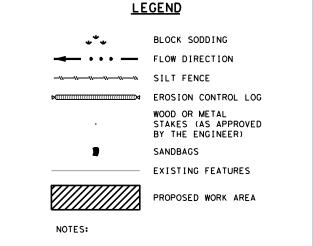
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

1. Use yield triangles with "Yield Here to Pedestrians" signs at unsignalized mid block crosswalks.

2. Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.







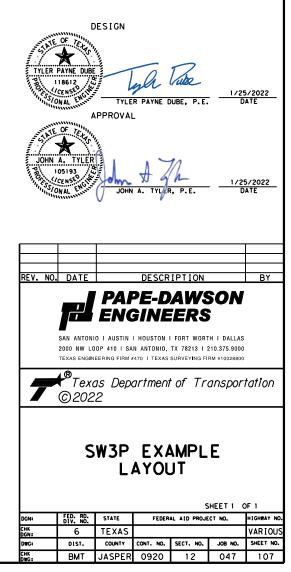
REFERENCE ENVIRONMENTAL PERMITS, ISSUES, AND COMMITMENTS (EPIC)AND STORM WATER POLLUTION PREVENTION PLAN (SW3P) SHEETS FOR SPECIFIC CONSTRUCTION CONSIDERATIONS OR REQUIREMENTS.

EXAMPLES SHOWN ON THE SHEET ARE FOR GENERAL GUIDANCE AND MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

SITE CONDITIONS MAY DICTATE ADDITIONAL COUNTERMEASURES AS DIRECTED BY THE ENGINEER.

USE ADDITIONAL STAKES OR SAND BAGS AS NEEDED TO HOLD IN PLACE (NSPI)

INSTALLATION OF COUNTERMEASURES MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.



CL-ROW EROSION CONTROL LOG AT EDGE OF ROW (SEE SHEET 114 FOR MORE INFORMATION) APPARENT ROW

EXISTING SIDEWALK

EXISTING SIDEWALK -

			_			
I. STORMWATER POLLUTION P	REVENTION-CLEAN WATER	ACT SECTION 402	III.	CULTURAL RESOURCES		VI. <u>HAZARDOUS MA</u>
TPDES TXR 150000: Stormwater required for projects with 1	l or more acres disturbed se	oil. Projects with any		No Action Required	Required Action	☐ No Action Re General (applie
disturbed soil must protect Item 506.	tor erosion and sedimentat	ion in accordance with		Action No.		Comply with the Hazar
List MS4 Operator(s) that mo They may need to be notified					ecifications in the event historical issues	hazardous materials making workers aware
1. TxDOT - Beaumont Distric	+			covery of archeological ar	are found during construction. Upon dis- tifacts (bones, burnt rock, flint, pottery,	provided with person Obtain and keep on-s
No Action Required	🛛 Required Action			etc.) cease work in the im immediately.	mediate area and contact the Engineer	used on the project, Paints, acids, solve compounds or additiv
Action No.						products which may b
1. Prevent stormwater pollut	tion by controlling erosion	and sedimentation in	IV.	VEGETATION RESOURCES		Maintain an adequate In the event of a sp
accordance with TPDES Per 2. Comply with the SW3P and		optrol pollution or as		No Action Required	Required Action	in accordance with s
required by the Engineer.	•			Action No.		immediately. The Con of all product spill
	nstruction Site Notice in a	manner which meets TCEQ		1. Preserve native vegetation	to the extent practical. Contractor must	Contact the Engineer
provide a copy of the Cor	ts and conforms to TxDOT st nstruction Site Notice to a	ny adjacent non-TxDOT MS4		adhere to Construction Spe	cification Requirements Specs 162, 164,	* Dead or distre * Trash piles, d
non-TxDOT MS4 Operator.	responsible for acquiring Contact the Beaumont Distr				52 in order to comply with requirements ficial landscaping, and tree/brush removal	 Undesirable sme Evidence of lead
with questions regarding 4. Take measures to prevent	construction materials and	•••		commitments.		* Any other evide
	r (i.e., cooling liquid, et tering any inlets, ditches,					discovered on s List below any br
II. WORK IN OR NEAR STREA	MS, WATERBODIES AND W	ETLANDS CLEAN WATER			IND Habitat Impacts: Regulatory Requirements ices" section found in the Beaumont District	replaced, rehabil
ACT SECTIONS 401 AND	404			Environmental Field Guide		or state "None", If "None", then r
USACE Permit required for			V	EEDERAL LISTED PROPOSED	THREATENED, ENDANGERED SPECIES,	for completing as
	ks, streams, wetlands or we to all of the terms and co			,	ISTED SPECIES, CANDIDATE SPECIES	Provide results b
Regional conditions for th	e State of Texas, associate	, -		AND MIGRATORY BIRDS.		Structure Locati None
permit(s):				No Action Required	Required Action	
🗙 No Permit Required				Action No.		
Nationwide Permit 14 - F wetlands affected)	PCN not Required (less than	1/10th acre waters or			noted in the project area, work shall	If Asbestos is pr to assist with th
				cease and the TxDOT Ins Do not harm any encounte	pector or DEQC must be notified immediately.	management activi
🗌 Nationwide Permit 14 - F		acre, 1/3 in tidal waters)		2. If caves or sinkholes are	discovered on site, cease work in the	If Asbestos is no
Other Nationwide Permit					T Inspector or DEQC for guidance. gulatory Requirements and Best Management	prior to any sche
				Practices" section found	in the Beaumont District Environmental	In either case, t activities and/or
Required Actions: List wate				Field Guide. 4. Contractor shall maintair	compliance with the Migratory Bird Treaty	asbestos consulta
and check Best Management P and post-project TSS.	racrices praimed to contro	erosion, seamentarion		and TPW Code, bridge demo	Section 64.002. For compliance with MBTA lition, clearing of vegetation, and tree	Hazardous Materia
1. Maintain a neat and clea	n worksite next to the wate	r and do not allow any			o be scheduled from October 1 to igratory bird nesting season). Contractor	Action No. 1. Comply wit
debris to fall into the					ng a qualified biologist to conduct a nest olition, tree trimming, or vegetation	if evidenc
2. Comply with "Work In or Best Management Practic	Near Waters/Wetlands Regula es" section found in the Be			clearing that occurs duri	ng migratory bird nesting season. The submit a survey protocol for approval by	materials 2. Notify TxD
Environmental Field Gui				District environmental st	aff prior to construction. A nesting up to five days. Any activity not	including
b				completed within 5 days c	f a nesting survey will require another esting season is from February 15 to	VII. OTHER ENVIR
The elevation of the ordina	ry high water marks of any	areas requiring work		September 30, No removal	of active nests is allowed during ason; therefore, any structure or	(includes regi
to be performed in the wate	ers of the US requiring the			vegetation containing an	f inactive nest may not be disturbed, cleared, f inactive nests is allowed during	No Action F
permit can be found on the	Bridge Layouts.			migratory bird nesting se	responsible for ensuring all nests on	Action No.
Best Management Practic	es:				oved prior to the start of nesting season.	1. Comply wit
Erosion	Sedimentation	Post-Construction TSS		-	/txdot-info/env/toolkit/350-01-gui.pdf	District E
Temporary Vegetation	Silt Fence	🗌 Vegetative Filter Strips				
Blankets/Matting	Rock Berm	Retention/Irrigation Systems		Management Practices Summ	ram BMPs from the Maintenance EA Best ary Report shall be reviewed and implemented	
Mulch	🗌 Triangular Filter Dike	Extended Detention Basin		where appropriate.		4
Sodding	Sand Bag Berm	Constructed Wetlands		LIST OF A	BBREVIATIONS	
Interceptor Swale	Straw Bale Dike	Wet Basin		Best Management Practice	SPCC: Spill Prevention Control and Countermeasure	
Diversion Dike	Brush Berms Erosion Control Compost	Erosion Control Compost Mulch Filter Berm and Socks	DSHS:		SW3P: Storm Water Pollution Prevention Plan es PCN: Pre-Construction Notification	
		Compost Filter Berm and Socks	MOA:	Federal Highway Administration Memorandum of Agreement	PSL: Project Specific Location TCEO: Texas Commission on Environmental Quality	
Compost Filter Berm and Socks			MOU: MS4:		TPDES: Texas Pollutant Discharge Elimination System tem TPWD: Texas Parks and Wildlife Department	n Ashley Bogram
	Stone Outlet Sediment Traps		NOT:	Migratory Bird Treaty Act Notice of Termination	TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species	APPROVED BY
				Nationwide Permit Notice of Intent	USACE: U.S. Army Corps of Engineers USFWS: U.S. Fish and Wildlife Service	DISTRICT ENVIRONMEN

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TERIALS OR CONTAMINATION ISSUES

quired

Required Action

es to all projects):

rd Communication Act (the Act) for personnel who will be working with by conducting safety meetings prior to beginning construction and of potential hazards in the workplace. Ensure that all workers are nal protective equipment appropriate for any hazardous materials used. ite Material Safety Data Sheets (MSDS) for all hazardous products which may include, but are not limited to the following categories: nts, asphalt products, chemical additives, fuels and concrete curing es. Provide protected storage, off bare ground and covered, for be hazardous. Maintain product labelling as required by the Act. supply of on-site spill response materials, as indicated in the MSDS. ill, take actions to mitigate the spill as indicated in the MSDS, afe work practices, and contact the District Spill Coordinator tractor shall be responsible for the proper containment and cleanup s.

if any of the following are detected: ssed vegetation (not identified as normal)

rums, canister, barrels, etc.

ells or odors

aching or seepage of substances

ence indicating possible hazardous materials or contamination site.

idge class structure(s), not including box culverts, being litated, removed, extended or modified as part of this project, if applicable.

no further action is required. Otherwise TxDOT is responsible sbestos assessment/inspection and evaluation for presence of lead.

below:

tion	PSN	Element	Lead	Asbestos

resent, then TxDOT must retain a DSHS licensed asbestos consultant ne notification, develop abatement/mitigation procedures, and perform ities as necessary,

ot present, then TxDOT is still required to notify DSHS eduled demolition.

he Contractor is responsible for providing the date(s) for abatement demolition with careful coordination between the Engineer and ant in order to minimize construction delays and subsequent claims.

Is or Contamination Issues Specific to this Project:

th TxDOT Standard Specification 7.12 and Special Provision 006-012 e of hazardous

or contamination is noted during construction.

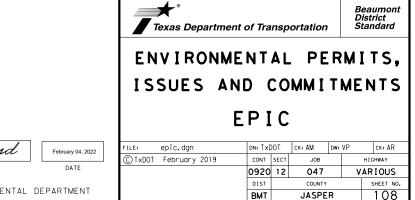
DOT Inspector or DEQC of any hazardous materials spills fuel, hydraulic fluid, etc.

ONMENTAL ISSUES

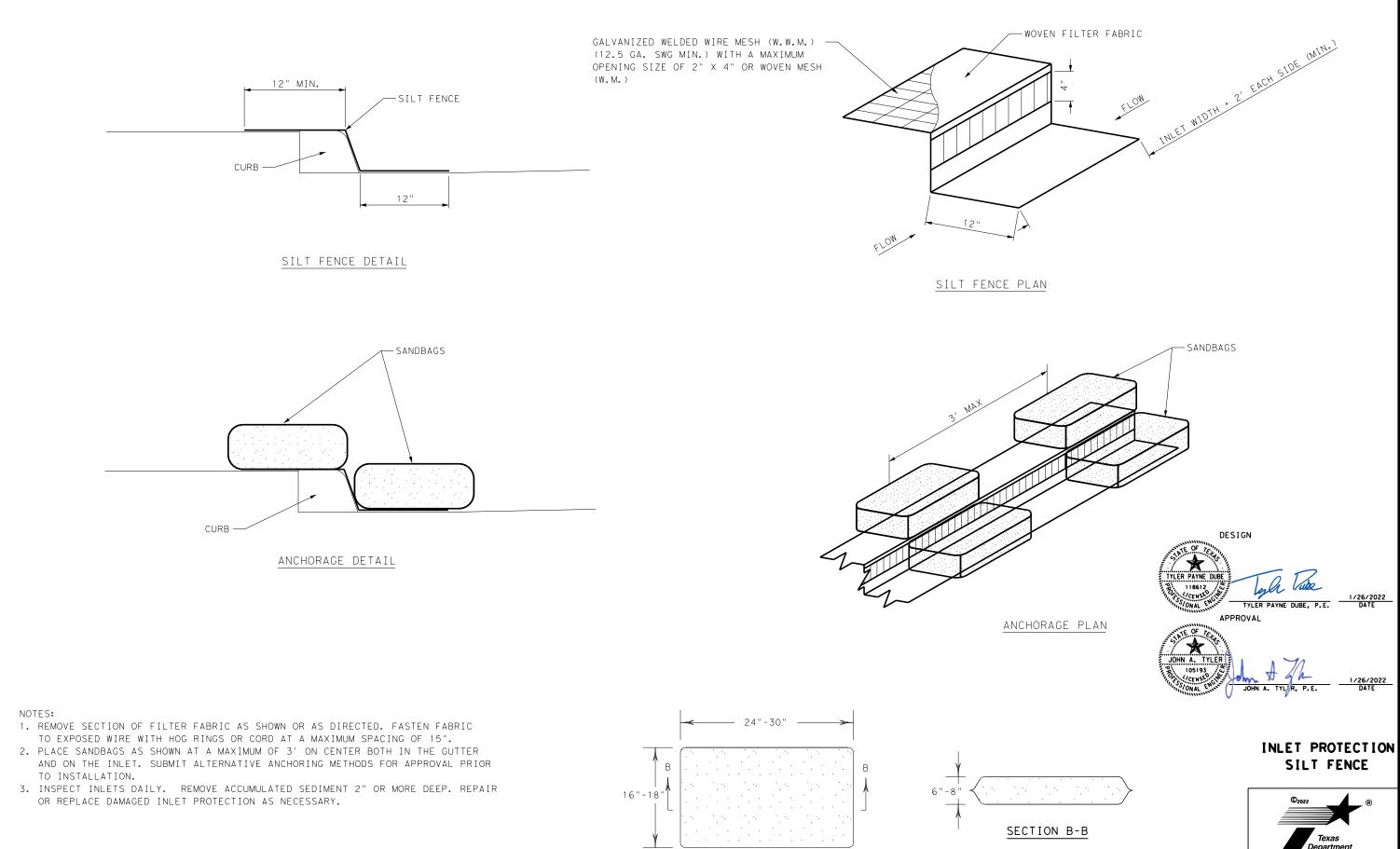
onal issues such as Edwards Aquifer District, etc.)

Required Required Action

h "General Construction" section found in the Beaumont nvironmental Field Guide.



SITE DESCRIPTION	<u>[CONTROLS]</u>	MAINTENANCE:
Notes: (1) The Site Description is accomplished using various sheets, each revealing separate details. This Index Sheet's purpose is to point the user to the	SOIL STABILIZATION PRACTICES	All erosion and sediment control and other protective measures identified in the SW3P must be maintained in effective operating conditions. If site inspections required by this permit identify BMP's that are not operating effectively,
appropriate location where the information required by the TPDES CGP can be found. (2) The project limits shown on the Title Sheet and limits of TxDOT Right Of Way shall also be the limits of coverage of the SW3P.	INTERIM: TEMPORARY SEEDING PRESERVATION OF NATURAL RESOURCES MULCHING (Hay or Straw) FLEXIBLE CHANNEL LINER	maintenance shall be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is unpracticable, mainten- ance must be scheduled and accomplished as soon as practical.
NATURE OF ACTIVITY: Pedestrian improvements including sidewalks and ADA curb	BUFFER ZONESOTHER	INSPECTION:
ramps	PERMANENT: SEEDING RETENTION BLANKET	Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are
INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: <u>Remove existing concrete</u> (sidewalk, curb & gutter, driveway, etc.), prepare base, set forms for proposed	SEEDING RETENTION BLANKET X BLOCK SOD CHANNEL LINER	exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site. Inspection Cycle Option:
improvements, pour concrete, place topsoil and sod, re-establish vegetation	OTHER	 1. At least every 14 calendar days or within 24 hrs after 0.5 inches or more of rainfall. X 2. At least every 7 calendar days.
	STRUCTURAL PRACTICES (T/P)*	3. At least monthly(Engineer & DEQC approved revision to SW3P required).
TOTAL AREA OF SITE: 8.0 AC AREA TO BE DISTURBED: 2.12 AC If area of disturbance can be expected to exceed 1.0 acres, Beaumont District Standard SW3P-B should be included in the plans.	T SILT FENCE PAVED FLUMES HAY BALES ROCK BEDDING AT CONSTRUCTION EXIT	a).Disturbed areas that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Sediment and erosion control measures identified on the SW3P shall be observed
PRE-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.51		to ensure that they are operating correctly. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking. Sediments must be removed from sediment control structures no later than the
POST-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.86	CHANNEL LINERS SEDIMENT BASINS	time that the design capacity has been reduced by 50%. b).Based on the result of the inspection, the SW3P shall be revised to include
EXISTING SOIL DESCRIPTION: <u>DUB Doucette-Boykin association, undulating; SBE</u> Shankler-Boykin assoc., hilly. Loamy residuum weathered from sandstone and shale	STORM SEWERSCURB and GUTTER STORM INLET SEDIMENT TRAPVELOCITY CONTROL DEVICES	(show on Site Map) additional or modified BMP's designed to correct the observed deficiency. Revisions to the SW3P must be completed within seven (7) calendar days following the inspection.
GENERAL LOCATION MAP: See Title Sheet	STONE OUTLET STRUCTURESEROSION CONTROL LOGS DIVERSION, INTERCEPTOR, OF PERIMETER SWALES DIVERSION, INTERCEPTOR, OF PERIMETER DIKES	c) A report summarizing the scope, date, name and qualifications of inspector, and major observations relating to the implementation of the SW3P shall be produced and retained as part of the SW3P for 3 years from date of final
RECEIVING WATERS: SEGMENT NUMBER 0603A	* T means Temporary - P means Permanent	stabilization. d).The following records must be maintained and either attached to or referenced
segment name <u>Sondy Creek</u> Location of wetland or special aquatic sites: None	PERMANENT POST CONSTRUCTION TSS CONTROLS	in the SW3P, and made readily available upon request to the parties in Part III.D.1 of the CGP: 1).The dates when major grading activities occur; 2).The dates when construction activities temporarily or permanently cease on a
	RETENTION / IRRIGATION EXTENDED DETENTION BASINS	portion of the site and;3).The dates when stabilization measures are initiated. INSPECTOR PAPERWORK CHECKLIST:
DRAINAGE PATTERNS: North to south, to Sandy Creek	VEGETATIVE FILTER STRIPS / VEGETATIVE SWALES	Contact Form (1) Notice of Intent (1)(2)
TYPICAL AREAS OF SOIL DISTURBANCE: Within ROW at existing infrastructure including sidewalks, ADA curb ramps, and driveways	CONSTRUCTED WETLANDS WET BASINS	 SW3P Certification Statement (signed by AE) (2) Delegation of Signature Authority (all Inspectors signing reports) (2)(3)
	OTHER CONTROLS	TPDES General Permit (2)(3) Environmental Document (2)
TYPICAL AREAS WHICH WILL NOT BE DISTURBED: See Plan & Profile Sheets	WATERING FOR DUST CONTROLS	 Inspection and Maintenance Report (2)(3) Notice of Termination (2)
	X SEDIMENT REMOVAL FROM ROADWAY (SWEEPING)	SW3P Plan (2)(3)
LOCATION OF OFF-SITE SURFACE RECEIVING WATERS: Sandy Creek	X LOADED TRUCKS WILL BE COVERED WITH TARP	 Project Diary(2)(3) (1) The information should be displayed on the Project Bulletin Board.
LOCATIONS WHERE STABILIZATION PRACTICES WILL OCCUR: See SW3P Example Layout or as needed/as directed by the Engineer	The above indicated practices are proposed to control pollutants in storm water discharges. These practices are based on information contained in TxDOT Storm Water Management Guidelines. The Schedule of implementation of these practices will be based on the intended Sequence of Major Soil Disturbing Activities. Stabilization measures shall be initiated no later than 14 days after construction activity of that portion of the site has temporarily or permanently ceased.	 (2) The information should be a part of the permanent SW3P file maintained at the Area Office. (3) The information should be maintained at the Field Office. STORM WATER POLLUTION PREVENTION PLAN is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by State, Tribal or local officials (i.e. MS4 Permits).
LOCATIONS OF OFF-SITE STORAGE OF MATERIALS AND EQUIPMENT, WASTE, BORROW; OR DEDICATED MATERIAL PROCESSING PLANTS: To be determined by Contractor.	Describe construction and waste materials expected to be stored on site and proposed controls to reduce pollutants from these materials (include storage practices spill prevention and response. <u>To be determined by Contractor.</u>	Any reportable quantity of Hazardous Material release must be reported to the National Response Center at 1-800-424-8802. In addition the Beaumont District "Hazardous Material Spill Information Form" must be completed and mailed to the EPA Regional Office in Dallas, Tx. A copy of the Construction General Permit is part of the SW3P.
LOCATIONS WHERE STORM WATER DISCHARGES TO SURFACE WATERS: See Peachtree Plan & Profile sheets	Describe pollutant sources from areas other than construction and measures implemented at those sites to minimize pollutant discharges. <u>All waste material</u>	APPROVAL
See SW3P Example Layout or as needed/as LOCATION OF POLLUTION CONTROL MEASURES: directed by the Engineer		SW3P INDEX (SW3P-I)
ECONTING OF FOLLOFICE CONTROL MEASURES. <u>directed by the Engineer</u>	Describe measures necessary to protect listed endangered or threatened species, or critical habitat. <u>See EPIC</u>	JOHN A. TYLER JA JA <thja< th=""> JA JA</thja<>
		09/15/15 MV TEXAS BMT JASPER 09/15/15 MV CONT. SECT. JOB HIGHWAY NO. 0920 12 047 VARIOUS

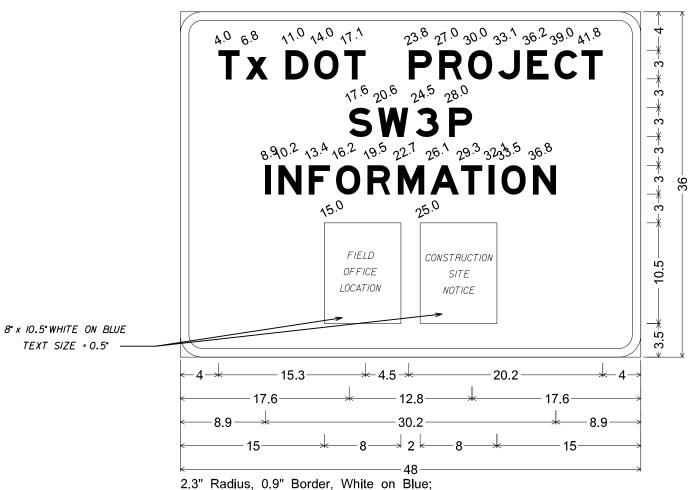


SANDBAG DETAIL

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1/26/ DATE:

		Texas Departr of Transp	nent	ion	
CONT	SECT	JOB		HIGHWAY	
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BMT	JASPER 11				



[TxDOT PROJECT] E Mod; [SW3P] E Mod; [INFORMATION] E Mod;

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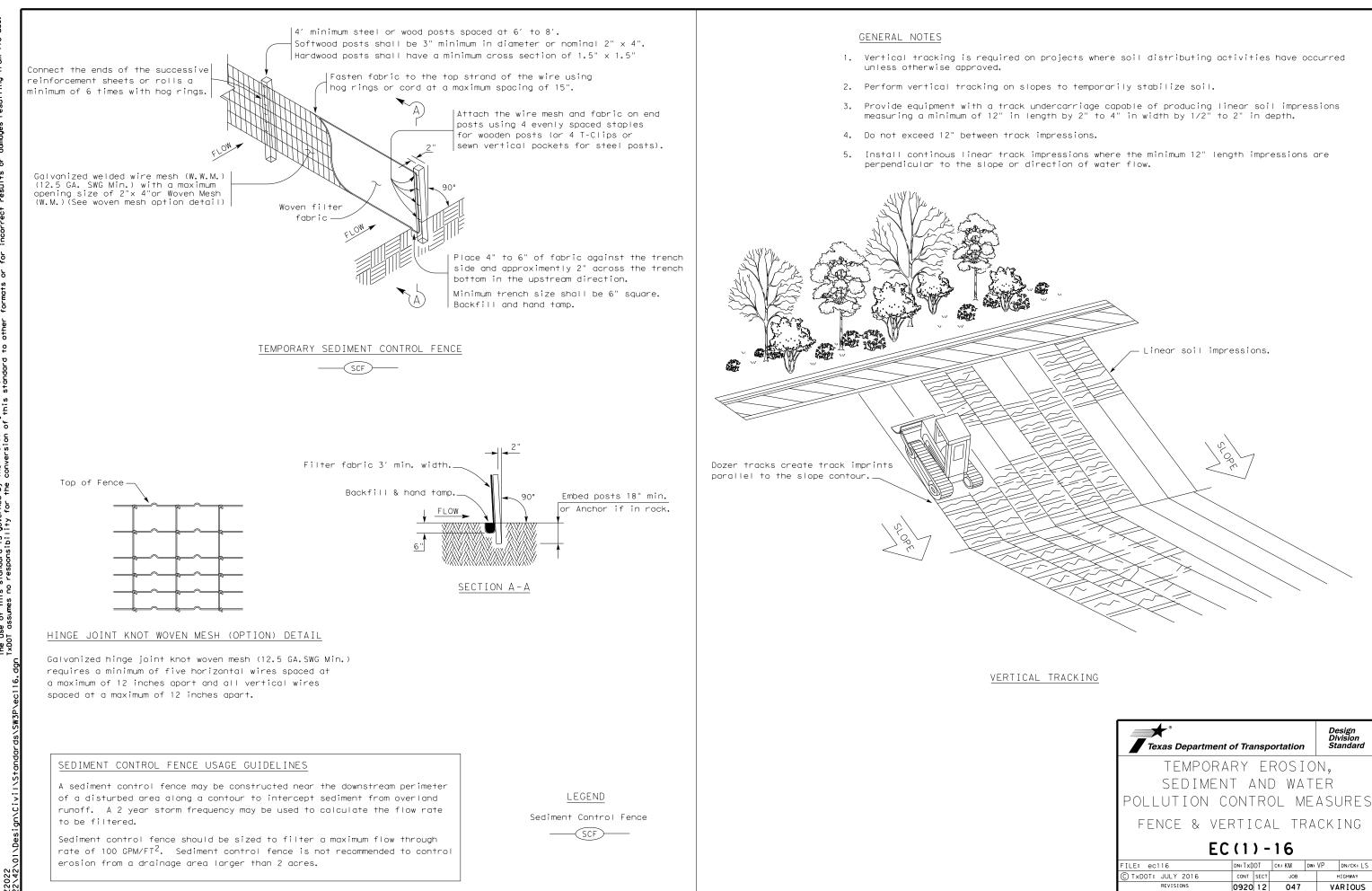
Each SW3P Notification Board will include laminated copies of the Field Office Location and Construction Site Notice. Notification Boards are to be constructed from chloroplast and placed at a location within the right-of-way but outside the clear zone as directed by the Engineer. This work will not be paid for directly, but will be considered subsidiary to other items.



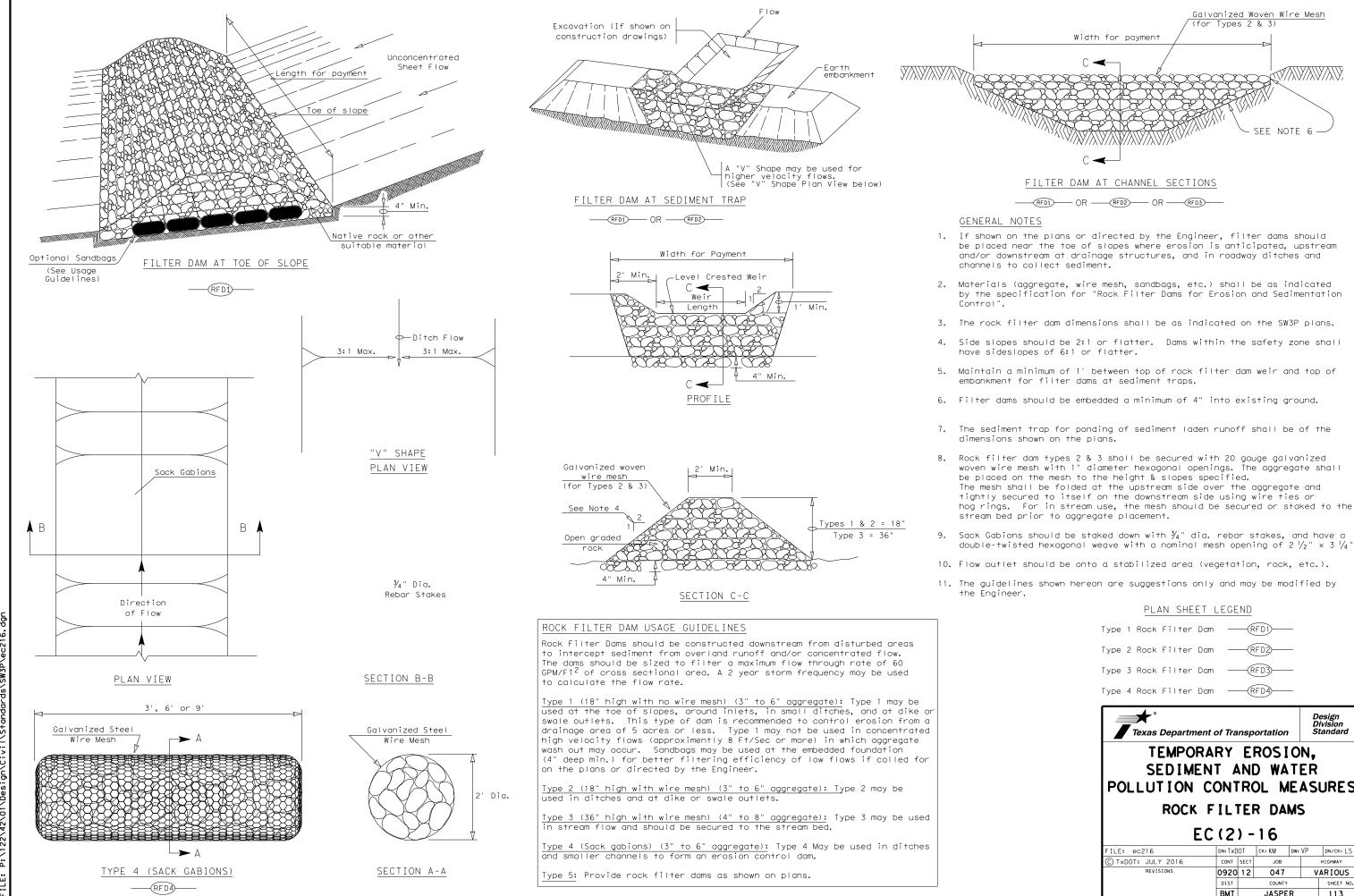
BEAUMONT DISTRICT SW3P NOTIFICATION BOARD DETAIL

(SW3P-A)

REVISIONS	FHWA		FEDERAL A	ID PROJECT	SHEET NO.			
	DIVISION							
	STATE		DISTRICT	COUNTY				
	TEXAS	S BMT JASPER						
	CONTROL	SECTION JOB HIGHWA		NO.				
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Texas Department		Design Division Standard							
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING EC(1)-16									
FILE: ec116	DN: T X D	OT	ск:КМ	DW:	VP	DN/CK: LS			
C TXDOT: JULY 2016	CONT	SECT	JOB			HIGHWAY			
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	BMT JASPER					112			



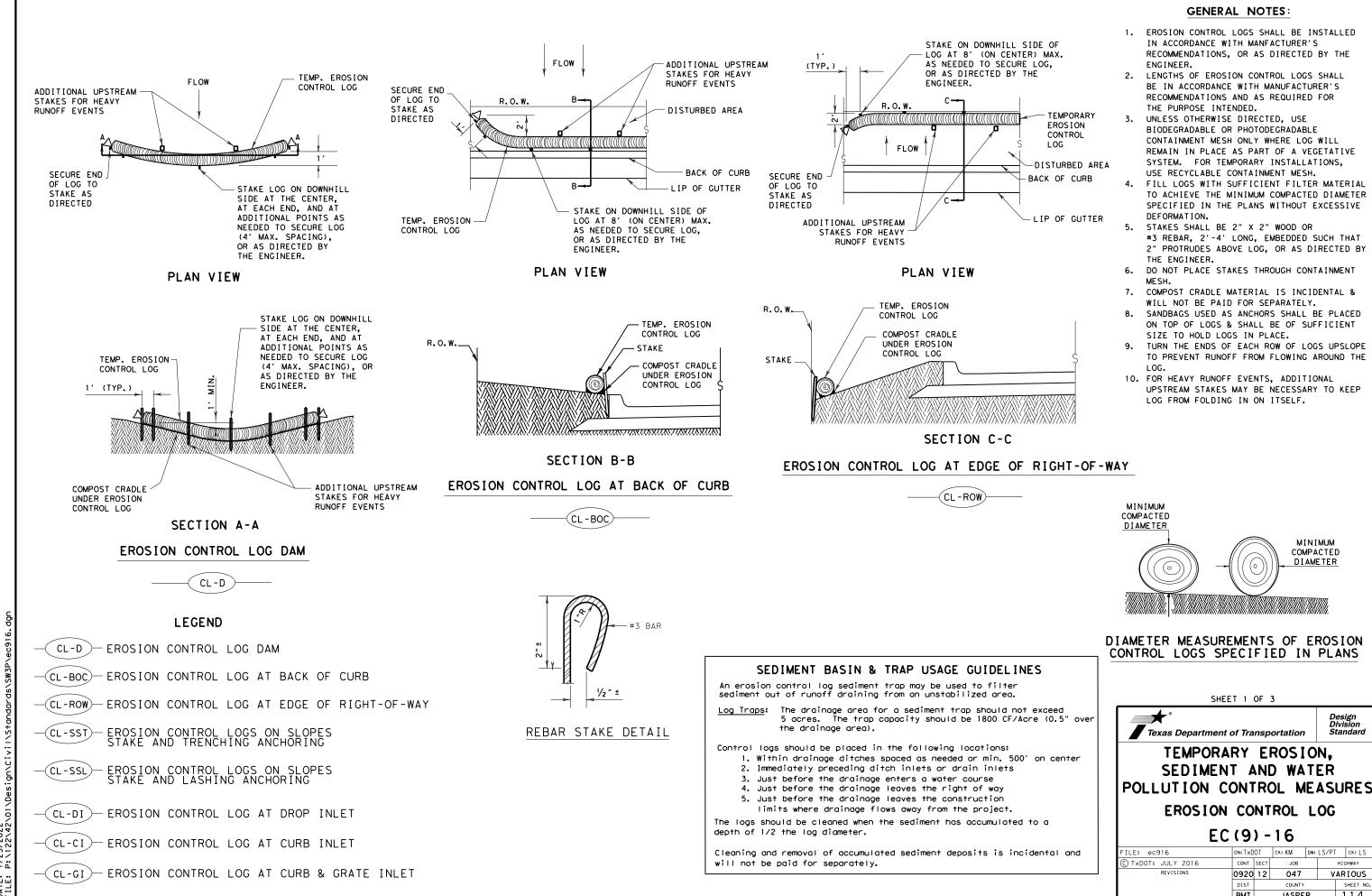
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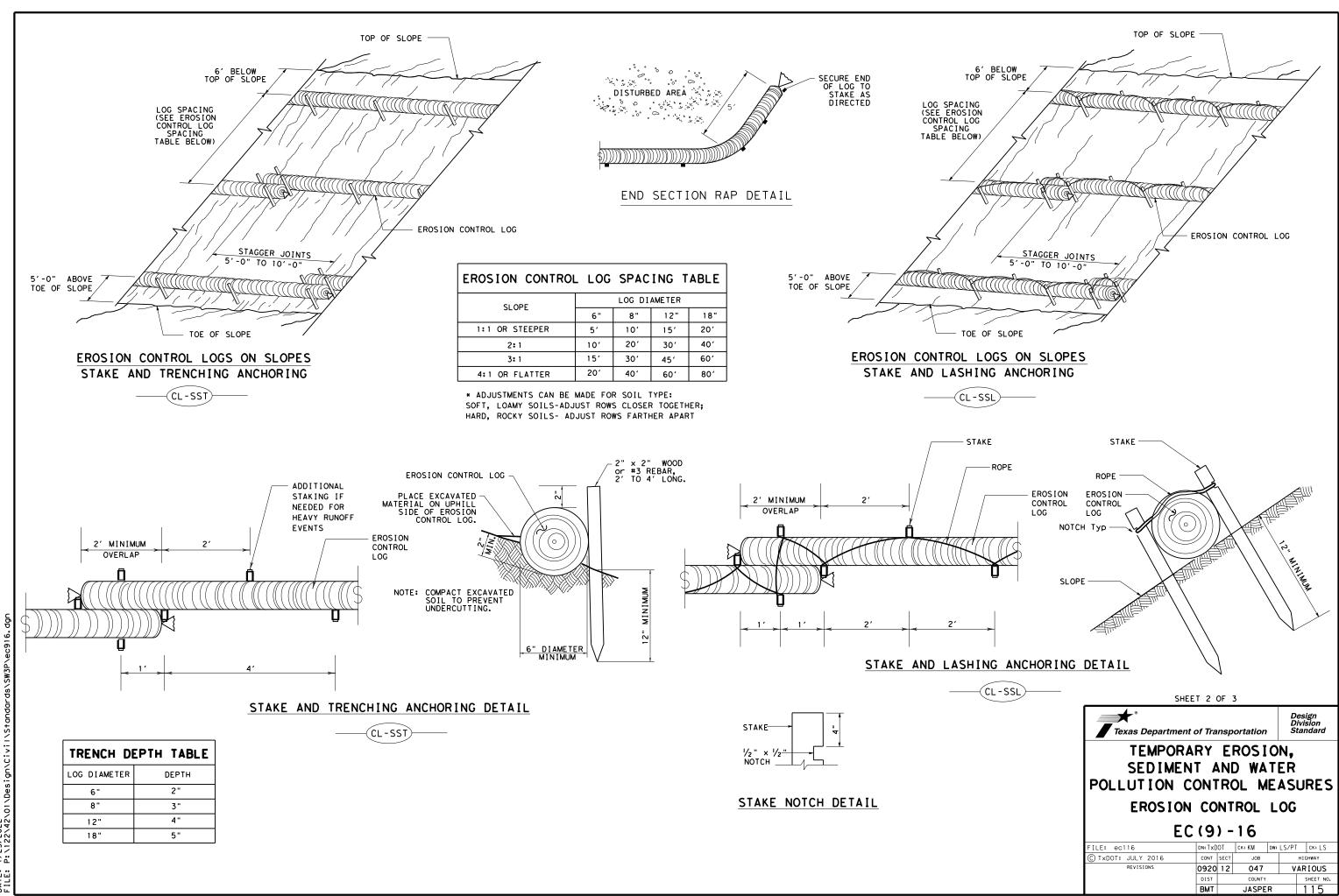
Type 1	Rock	Filter	Dam	
Type 2	Rock	Filter	Dam	
Туре 3	Rock	Filter	Dam	
Type 4	Rock	Filter	Dam	

Texas Departmen	esign ivision andard							
Texas Department of Transportation Standard TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES ROCK FILTER DAMS EC(2) - 16								
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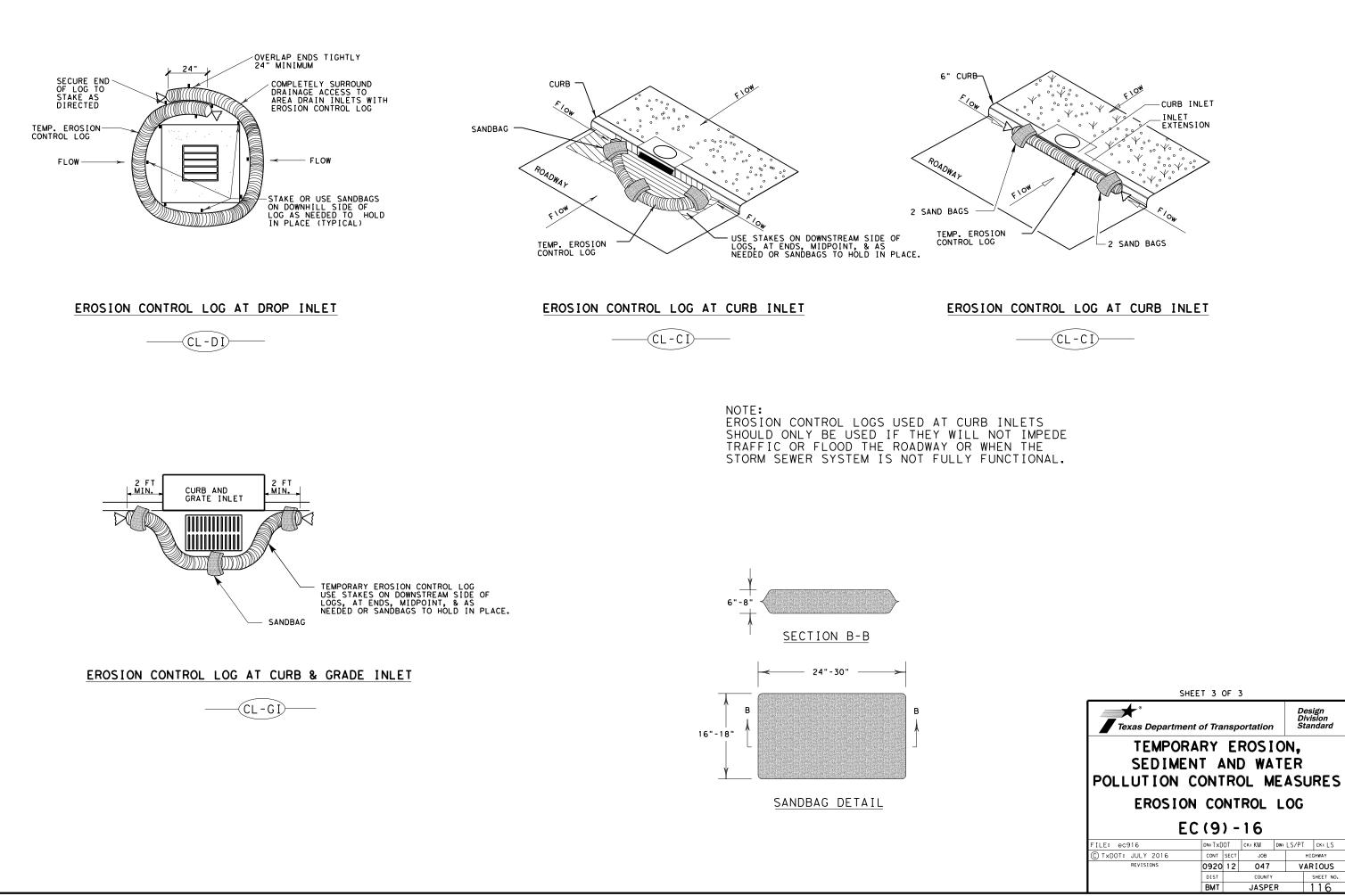
	EC (9) - 10								
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C TXDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY				
REVISIONS	0920	12 047			VARIOUS				
	DIST	COUNTY				SHEET NO.			
	BMT		JASPE	R		114			

Design Division Standard



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