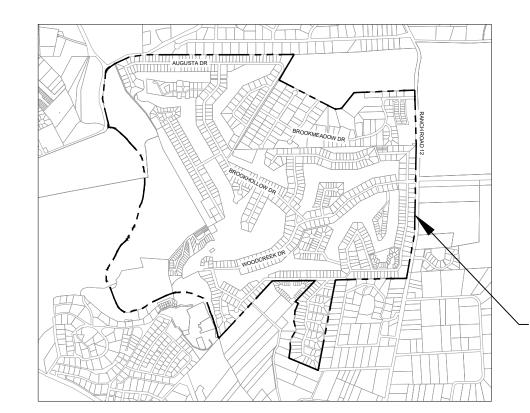
## CITY OF WOODCREEK

## **2024 SAFETY ENHANCEMENT PROGRAM**

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PROJECT LIMITS

(VARIOUS LOCATIONS WITHIN CITY LIMITS)

#### **CITY MAYOR:**

JEFF RASCO

#### **CITY COUNCIL MEMBERS:**

PLACE 1, MAYOR PRO TEM - DEBRA HINES

PLACE 2 - LINNEA R. BAILEY

PLACE 3 - CHRYS GRUMMERT

PLACE 4 - BOB HAMBRICK

PLACE 5 - KRISTA RICHARDSON

#### **CITY MANAGER:**

JIM BURTON



THE SIZE, TYPE, LOCATION AND DEPTH OF EXISTING UTILITIES AS SHOWN HEREIN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL LINDERGROUND LITILITIES.

C0.00

#### CITY OF WOODCREEK

#### 2024 SAFETY ENHANCEMENT PROGRAM

#### **GENERAL NOTES**

#### GENERAL DESCRIPTION OF THE SCOPE OF WORK

THE SCOPE OF WORK GENERALLY INVOLVES DRIVEWAY PAVEMENT RECONSTRUCTION, ROAD OVERLAY, INSTALLATION OF SPEED LIMIT SIGNS AND SPEED CUSHIONS, AND THE MODIFICATION OF A GUARDRAIL WITHIN THE CITY LIMITS OF WOODCREEK, TEXAS.

#### PROJECT LIMITS AND AREA

THE PROJECT LIMITS CONSIST OF THE PUBLIC STREET AND RIGHT-OF-WAY LOCATED IN WOODCREEK, TEXAS.

THE PROJECT LIMITS INCLUDE AREAS WITHIN THE EXISTING STREET RIGHT-OF-WAY NEEDED TO PARK AND OPERATE THE EQUIPMENT

THE CONTRACTOR SHALL NOT WORK OUTSIDE OF THE RIGHT-OF-WAY.

THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE EXISTING CURB, PARKWAY, DRIVEWAYS, AND PRIVATE PROPERTY OUTSIDE OF THE PROJECT LIMITS.

#### NOTIFICATIONS

THE CONTRACTOR SHALL NOTIFY THE CITY OF WOODCREEK AND THE ENGINEER 72 HOURS BEFORE STARTING CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE THE START AND END DATES FOR CONSTRUCTION, ANY SCHEDULE CHANGES, AND ADDITIONAL INFORMATION FOR COORDINATION PURPOSES.

#### REGULATIONS

THE CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION OPERATIONS ACCORDING TO APPLICABLE STATE STATUTES AND U.S. OSHA REGULATIONS

THE CONTRACTOR MAY OBTAIN INFORMATION AND RELATED REFERENCE MATERIALS FROM OHSA AT 1033 LA POSADA DR., SUITE 375, AUSTIN, TEXAS 78752-3832.

ALL CONSTRUCTION SHALL COMPLY WITH THE TEXAS ADMINISTRATIVE CODE, TCEQ, AND ANY OTHER GOVERNING ENTITY, ORDINANCES, OR CODES.

#### JOB SITE RESPONSIBILITY

THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND THE PROTECTION

THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO REGULAR WORKING

#### UTILITIES

THE CONTRACTOR SHALL USE ESTABLISHED SAFETY PRACTICES WHEN WORKING NEAR UTILITIES.

THE CONTRACTOR SHALL INFORM AND CONSULT WITH THE APPROPRIATE UTILITY OWNERS BEFORE WORK BEGINS, ALLOWING THEM ENOUGH TIME TO IDENTIFY, LOCATE, REROUTE, OR MAKE OTHER ADJUSTMENTS TO UTILITY LINES.

THE SIZE, LOCATION, AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY.

THE CONTRACTOR SHALL VERIEY ALL EXISTING LITHTIES' EXACT HORIZONTAL AND VERTICAL LOCATIONS BEFORE COMMENCING WORK

ALL EXISTING UTILITIES SHALL REMAIN IN PLACE AND STAY IN SERVICE UNLESS OTHERWISE INDICATED ON THE PLANS.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND AND ABOVE-GROUND UTILITIES IN THE PROJECT AREA.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF UTILITY CONFLICTS.

THE ENGINEER WILL DECIDE WHETHER TO ADJUST UTILITIES OR ADJUST THE WORK TO ELIMINATE OR LESSEN THE CONFLICT.

UNLESS OTHERWISE SHOWN ON THE PLANS, THE ENGINEER WILL MAKE NECESSARY ARRANGEMENTS WITH THE UTILITY OWNER WHEN UTILITY ADJUSTMENTS ARE REQUIRED.

THE CONTRACTOR SHALL USE WORK PROCEDURES THAT PROTECT UTILITIES OR APPURTENANCES THAT REMAIN IN PLACE DURING CONSTRUCTION.

THE CONTRACTOR SHALL CONDUCT WORK WITH MINIMUM DISTURBANCE OF EXISTING UTILITIES AND COORDINATE WORK IN OR NEAR UTILITIES WITH THE UTILITY OWNERS.

THE CONTRACTOR SHALL COOPERATE WITH UTILITIES TO REMOVE AND REARRANGE UTILITIES TO AVOID SERVICE INTERRUPTION OR DUPLICATE WORK BY THE UTILITIES.

THE CONTRACTOR SHALL NOT DISRUPT UTILITY SERVICES TO CUSTOMERS IN THE PROJECT AREA UNLESS THE OUTAGE HAS BEEN COORDINATED AND SCHEDULED WITH THE APPROPRIATE UTILITY PROVIDER(S) AND CUSTOMERS.

THE CONTRACTOR SHALL PROVIDE 24-HOUR EMERGENCY CONTACT INFORMATION TO AREA UTILITY

THE CONTRACTOR SHALL ALLOW UTILITIES ACCESS TO THE RIGHT OF WAY.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE APPROPRIATE UTILITY COMPANIES OF SERVICE INTERRUPTIONS RESULTING FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES AND COOPERATE WITH UTILITIES UNTIL SERVICE IS RESTORED. (CONTINUED NEXT PAGE)

THE CONTRACTOR SHALL ALWAYS MAINTAIN ACCESS TO FIRE HYDRANTS.

THE CONTRACTOR SHALL AVOID CUTTING OR DAMAGING UNDERGROUND UTILITY LINES TO REMAIN IN PLACE AND PROMPTLY NOTIFY THE UTILITY COMPANY IF DAMAGE OCCURS.

THE CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITY APPURTENANCES IN THE STREET PAVEMENT, INCLUDING MANHOLES AND VALVE BOXES.

THE CONTRACTOR SHALL REPAIR AT NO ADDITIONAL COST TO THE OWNER ANY UTILITY APPURTENANCES DAMAGED DURING OVERLAY, PAVEMENT REPAIR, AND OTHER CONSTRUCTION

THE CONTRACTOR SHALL INSTALL SOD AT NO ADDITIONAL COST TO THE OWNER FOR ANY DISTURBED AREAS.

#### CONSTRUCTION WATER

THE CONTRACTOR SHALL OBTAIN A WATER SUPPLY FOR CONSTRUCTION PURPOSES AT THEIR

THE CONTRACTOR MAY ARRANGE FOR A TEMPORARY WATER METER FROM THE WATER PROVIDER.

#### HAUL ROUTE PROTECTION

THE CONTRACTOR SHALL USE WHATEVER MEANS TO PREVENT SOIL AND OTHER FOREIGN MATERIALS FROM LITTERING PUBLIC STREETS USED TO HAUL MATERIALS TO AND FROM THIS

THE CONTRACTOR SHALL REMOVE SOIL, DIRT, MUD, AND OTHER MATERIALS FROM THE PUBLIC STREETS TO PREVENT HAZARDOUS CONDITIONS AND PROTECT THE TRAVELING PUBLIC

#### FIFLD CHANGES

THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF ANY FIELD CHANGES ARE

#### WORKING HOURS

THE CONTRACTOR'S WORKING HOURS SHALL BE MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM THE CONTRACTOR SHALL NOT WORK WEEKENDS OR HOLIDAYS UNLESS APPROVED BY CITY OF

#### STORMWATER

THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND NOT BLOCK STORMWATER

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ENHANCEMENT PROGRAM

WOODCREEK

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#### CONSTRUCTION SPECIFICATIONS

THE CONTRACTOR SHALL PERFORM ALL WORK AND CONSTRUCT THE IMPROVEMENTS PER TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (ADOPTED BY TXDOT NOVEMBER 1, 2014) AND ANY APPLICABLE SPECIAL PROVISIONS AND SPECIFICATIONS.

#### ITEM 100 - PREPARING ROW

THIS SPECIFICATION SHALL GOVERN AND INCLUDE THE PREPARATION OF THE PROJECT SITE FOR CONSTRUCTION

#### ITEM 105 - REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT

THE CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT AND BASE MATERIAL PER THE LIMITS SHOWN ON THE PLANS TO A DEPTH NO GREATER THAN THE EXISTING SUBGRADE. THE CONTRACTOR SHALL NOT STOCK PILE REMOVED MATERIALS AND SHALL HAUL OFF REMOVED MATERIALS IMMEDIATELY.

#### ITEM 247 - FI EXIRI E BASE

THE CONTRACTOR SHALL FURNISH AND INSTALL TYPE A, GRADE I-II FLEXIBLE BASE MATERIAL PER DEPTH SHOWN ON PLANS.

#### ITEM 500 - MOBILIZATION

#### ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

THE CONTRACTOR SHALL MAINTAIN ONE-LANE TWO-WAY TRAFFIC USING FLAGGERS AT ALL TIMES DURING ACTIVE CONSTRUCTION AND WORKING HOURS. TWO-WAY TRAFFIC MUST BE MAINTAINED WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING ON-SITE.

THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL SIGNS AT ALL INTERSECTIONS TO IDENTIFY ROAD WORK AHEAD.

## ITEM 506 - TEMPORARY EROSION, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROLS

SEE PLANS.

#### ITEM 644 - SMALL ROADSIDE SIGN ASSEMBLIES

SEE PLANS

#### ITEM 666 - RETROREFLECTORIZED PAVEMENT MARKINGS

TYPE II TRAFFIC PAINT SHALL BE INSTALLED AS A SEALER/BASE COAT BEFORE INSTALLING TYPE I HOT-APPLIED THERMOPLASTIC.

#### SPECIAL SPECIFICATION 3076 - DENSE-GRADED HOT-MIX ASPHALT

## HMAC SHALL BE INSTALLED WHERE INDICATED ON THE PLANS, VARIOUS DRIVEWAYS AND OVERLAY ON DEERFIELD DRIVE

HMAC SHALL BE TYPE AND DEPTH AS SPECIFIED ON PLANS.

TACK COAT SHALL BE CBC-1H APPLIED AT A RATE OF 0.10 GAL/SY.

MODIFICATIONS ADDED TO SPECIFICATION ARE AS FOLLOWS:

#### PARAGRAPH 5

1. HOT MIX WILL BE MEASURED BY THE SQUARE YARD.

#### PARAGRAPH 6

- 1. PAYMENT WILL BE PAID FOR AT THE UNIT BID PRICE PER SQUARE YARD.
- 2. TACK COAT WILL BE SUBSIDIARY TO THIS ITEM.

#### SPECIAL SPECIFICATION - INSTALL PROVIDED DIGITAL SPEED SIGNS

SEE PLAN SHEETS FOR LOCATIONS. THE GOVERNING SPECIFICATION FOR THIS ITEM IS TXDOT ITEM 644 - SMALL ROADSIDE SIGN ASSEMBLIES.

THE CITY OF WOODCREEK WILL PROVIDE THE SOLAR POWERED DIGITAL SPEED SIGNS. THE CONTRACTOR SHALL FULLY FURNISH ALL POSTS, HARDWARE, BASE ETC TO APPROPRIATELY MOUNT THE PROVIDED SIGNS.

#### SPECIAL SPECIFICATION - INSTALL PROVIDED SIGNS

THE CITY OF WOODCREEK HAS VARIOUS SMALL SIGNS TO BE INSTALLED, LOCATIONS WILL BE DETERMINED DURING CONSTRUCTION. THE GOVERNING SPECIFICATION FOR THIS ITEM IS TXDOT ITEM 644 - SMALL ROADSIDE SIGN ASSEMBLIES.

THE CITY OF WOODCREEK WILL PROVIDE VARIOUS SMALL SIGNS. THE CONTRACTOR SHALL FULLY FURNISH ALL POSTS, HARDWARE, BASE ETC. TO APPROPRIATELY MOUNT THE PROVIDED SIGNS.

#### SPECIAL SPECIFICATION - GUARDRAIL MODIFICATION

SEE PLANS. THE GOVERNING SPECIFICATIONS FOR THIS WORK ARE LISTED BELOW: TXDOT ITEM 540 - METAL BEAM GUARD FENCE TXDOT ITEM 542 - REMOVING METAL BEAM GUARD FENCE

ALL WORK INCLUDING REMOVING THE EXISTING GUARD FENCE, PORTABLE RESTROOM RELOCATION, AND INSTALLATION SHALL BE SUBSIDIARY TO THIS ITEM. THIS WORK WILL BE PAID BY THE LUMP SUM, AND WILL INCLUDE ALL NECESSARY WORK FOR FINAL COMPLETION.

#### SPECIAL SPECIFICATION - SPEED CUSHION

COMPLETE IN PLACE TO INCLUDE ALL NECESSARY FURNISHINGS FOR INSTALLATION PER DETAIL INCLUDED IN PLANS AND MANUFACTURER INSTALLATION RECOMMENDATIONS. MARKING PATTERN IS TO BE SC-070603-M. THIS WORK WILL BE PAID BY EACH SPEED CUSHION.

#### SPECIAL SPECIFICATION - BLADE LEVEL-UP WITH ASPHALT CONCRETE

SEE PLANS.

#### SUBMITTALS

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS TO THE ENGINEER FOR APPROVAL FOR ALL MATERIALS FOR ITEMS SPECIFIED.

Freeland & Turk engineering group

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SAFETY ENHANCEMENT PROGRAM
GENERAL NOTES SHT 2

CITY OF WOODCREEK

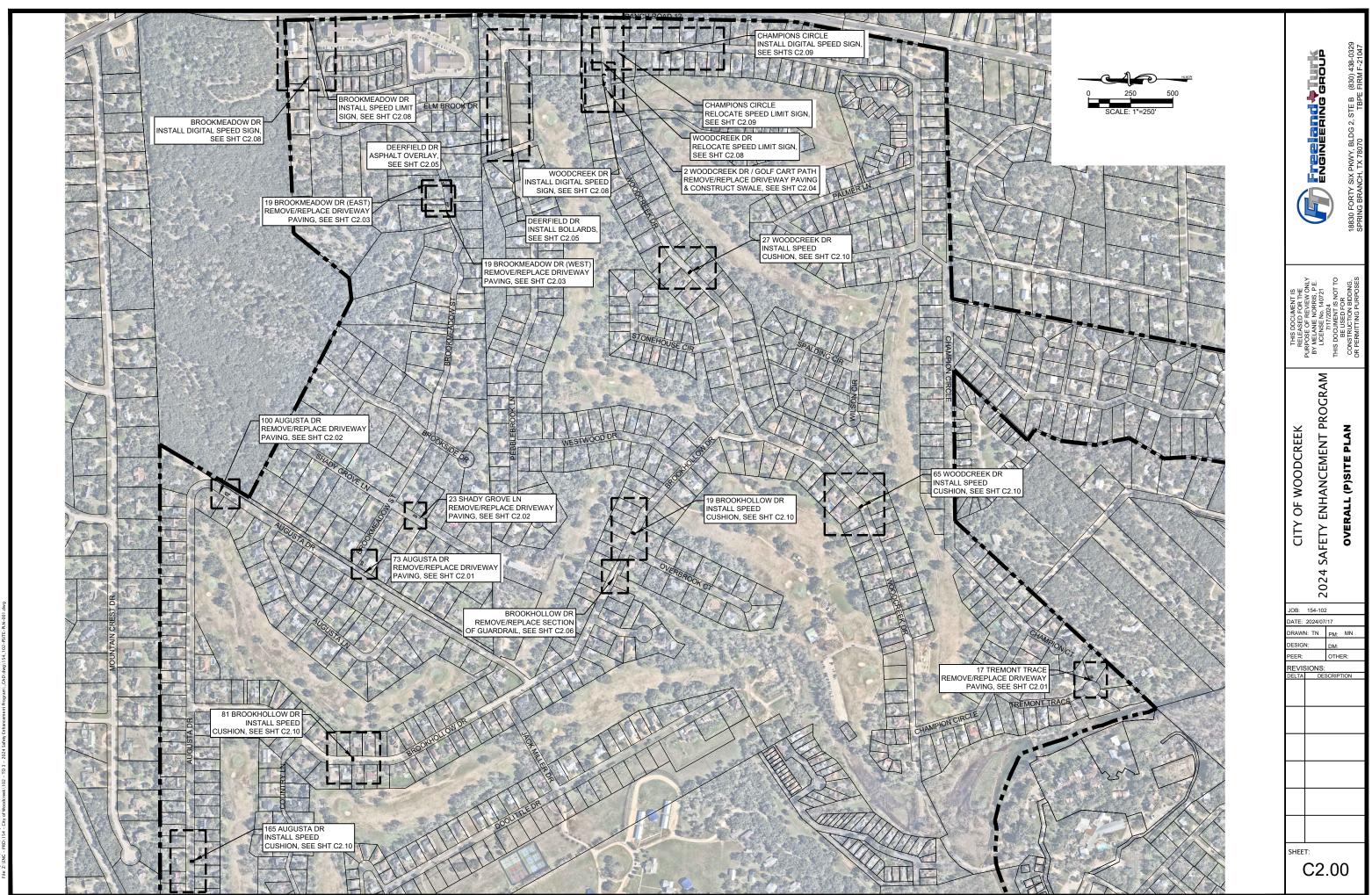
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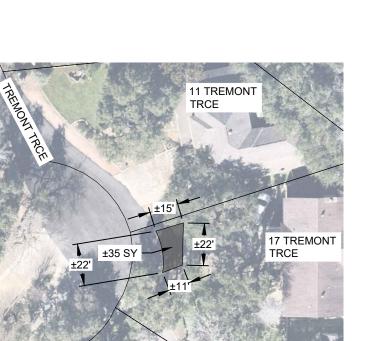
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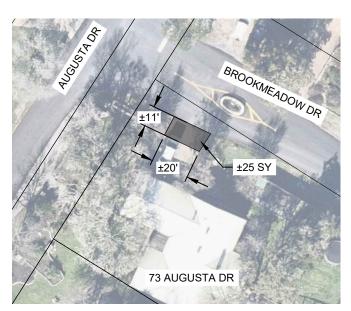


17 TREMONT TRCE - AERIAL PLAN VIEW

20 TREMONT



73 AUGUSTA DR - FRONT STREET VIEW SCALE: N.T.S.



73 AUGUSTA DR - AERIAL PLAN VIEW SCALE: 1" = 50'

#### LEGEND

**DRIVEWAY PAVING** SECTION

#### NOTES:

- CONTRACTOR SHALL REMOVE 2" OF DRIVEWAY MATERIAL (ASPHALT AND BASE) AND REMOVE FROM THE SITE.
- 2. THE CONTRACTOR SHALL REPLACE EXISTING ASPHALT WITH 2" OF HMAC (TxDOT SPEC ITEM
- THE CONTRACTOR SHALL MATCH EXISTING GRADES OF EXISTING ASPHALT IN AREAS BEING REPAVED AND MAINTAIN EXISTING DRAINAGE PATTERNS.
- 4. DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONCERNS OR DISCREPANCIES.

Freeland Turk

2024 SAFETY ENHANCEMENT PROGRAM DRIVEWAY PAVING LAYOUTS
SHT 1 CITY OF WOODCREEK

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SCALE: 1" = 50'

LEGEND

NOTES:
1. CONTRACTOR SHALL REMOVE 2" OF DRIVEWAY MATERIAL (ASPHALT AND BASE) AND REMOVE

2. THE CONTRACTOR SHALL REPLACE EXISTING ASPHALT WITH 2" OF HMAC (TXDOT SPEC ITEM

3076).
3. THE CONTRACTOR SHALL MATCH EXISTING GRADES OF EXISTING ASPHALT IN AREAS BEING REPAVED AND MAINTAIN EXISTING DRAINAGE

DIMENSIONS SHOWN ARE APPROXIMATE. THE

CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONCERNS OR DISCREPANCIES.

PATTERNS.

**DRIVEWAY PAVING** 

SECTION

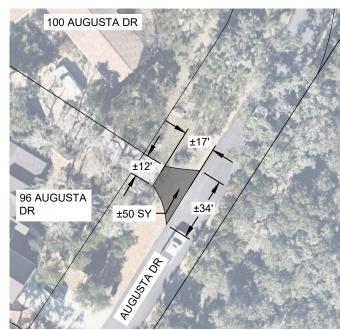
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100 AUGUSTA DR - FRONT STREET VIEW SCALE: N.T.S.



23 SHADY GROVE LN - FRONT STREET VIEW



100 AUGUSTA DR - AERIAL PLAN VIEW SCALE: 1" = 50'



23 SHADY GROVE LN - AERIAL PLAN VIEW SCALE: 1" = 40'



SCALE: N.T.S.

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C2.03



19 BROOKMEADOW DR (WEST) - FRONT STREET VIEW SCALE: N.T.S.



19 BROOKMEADOW DR (EAST) - FRONT STREET VIEW SCALE: N.T.S.



19 BROOKMEADOW DR (WEST) - AERIAL PLAN VIEW

SCALE: 1" = 50'



19 BROOKMEADOW DR (EAST) - AERIAL PLAN VIEW SCALE: 1" = 50'

1. CONTRACTOR SHALL REMOVE 2" OF DRIVEWAY MATERIAL (ASPHALT AND BASE) AND REMOVE FROM THE SITE.

**LEGEND** 

SECTION

- 2. THE CONTRACTOR SHALL REPLACE EXISTING
  ASPHALT WITH 2" OF HMAC (TXDOT SPEC ITEM
- 3. THE CONTRACTOR SHALL MATCH EXISTING GRADES OF EXISTING ASPHALT IN AREAS BEING REPAVED AND MAINTAIN EXISTING DRAINAGE PATTERNS.
- 4. DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONCERNS OR DISCREPANCIES.

2 WOODCREEK DR / GOLF CART PATH - FRONT STREET VIEW SCALE: N.T.S.



2 WOODCREEK DR / GOLF CART PATH - AERIAL PLAN VIEW SCALE: 1" = 50'



DRIVEWAY PAVING SECTION

SILT FENCE

- NOTES:
  1. CONTRACTOR SHALL REMOVE 8" OF DRIVEWAY MATERIAL (ASPHALT AND BASE) AND REMOVE FROM THE SITE.
- 2. THE CONTRACTOR SHALL REPLACE EXISTING ASPHALT WITH 2" OF HMAC (TxDOT SPEC ITEM 3076) AND 6" OF FLEXIBLE BASE MATERIAL (TxDOT SPEC ITEM 247).
- THE CONTRACTOR SHALL MATCH EXISTING GRADES OF EXISTING ASPHALT AT TIE IN AREAS.
- 4. THE CONTRACTOR SHALL CONSTRUCT A SWALE AT A MINIMUM 1% GRADE ACROSS THE TWO DRIVEWAYS AND CREATE POSITIVE DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONCERNS OR DISCREPANCIES.



SAFETY ENHANCEMENT PROGRAM DRIVEWAY PAVING LAYOUTS
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**OVERLAY SECTION** SILT FENCE

- 1. THE CONTRACTOR SHALL PLACE AN ASPHALT CONCRETE LEVEL-UP THROUGHOUT THE OVERLAY SECTION LIMITS (SPECIAL SPECIFICATION BLADE LEVEL-UP WITH ASPHALT CONCRETE) TO FILL IN ALL AREAS OF DEPRESSION.
- 2. THE CONTRACTOR SHALL INSTALL A 2" HMAC OVERLAY (TXDOT SPEC 3076) PER THE LIMITS SHOWN ON THE PLANS.
- 3. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT LIMITS, AND MAINTAIN A MINIMUM OF A 16' WIDE PAVEMENT SECTION.
- 4. THE CONTRACTOR SHALL MATCH EXISTING GRADES OF EXISTING ASPHALT AT TIE IN AREAS INCLUDING DRIVEWAYS.
- THE CONTRACTOR SHALL PLACE HMAC OVERLAY MATCHING EXISTING GRADES AND DRAINAGE PATTERNS.
- 6. GOLF CART SIGN SHALL BE INSTALLED DIRECTLY BEHIND MAILBOXES AND SHALL NOT IMPEDE ACCESS.



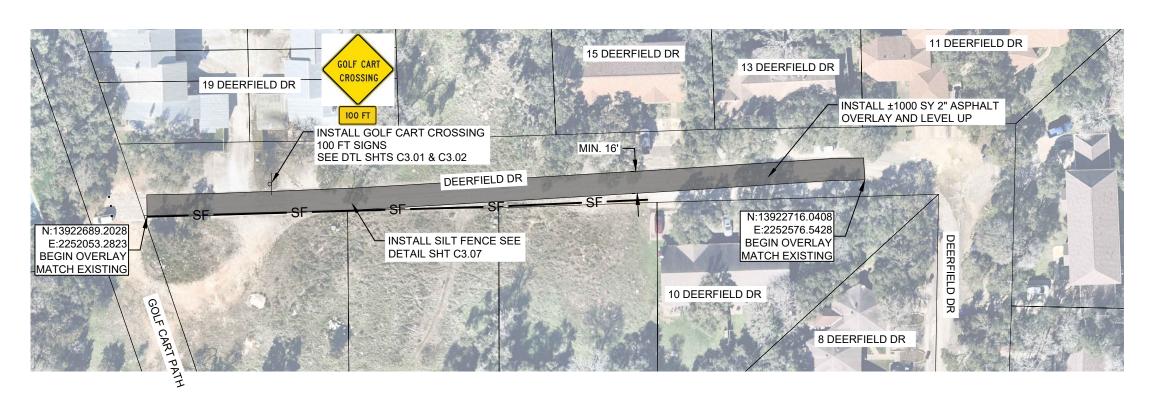
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2024 SAFETY ENHANCEMENT PROGRAM

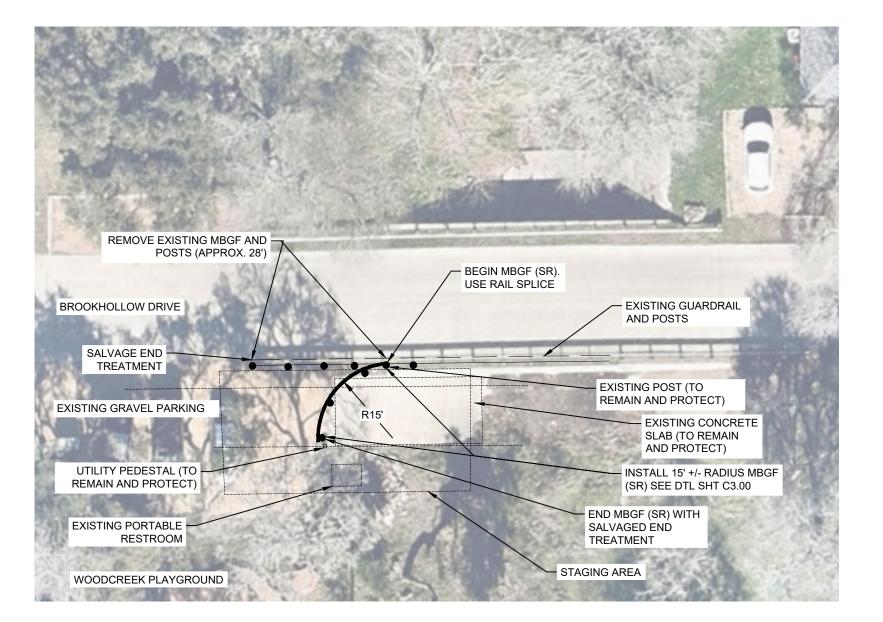
OF WOODCREEK

CITY

JOB: 154-102 ATE: 2024/07/17



- THE CONTRACTOR MAY CLOSE ONE LANE OF BROOKHOLLOW DR. TO ESTABLISH A WORK ZONE. DURING LANE CLOSURES, THE CONTRACTOR SHALL PROPERLY MAINTAIN TRAFFIC ON BROOKHOLLOW DR.
- THE CONTRACTOR MAY TEMPORARILY REPOSITION THE EXISTING PORTABLE BATHROOM TO ACCOMMODATE MBGF INSTALLATION.
- THE CONTRACTOR SHALL CONTACT TEXAS 811 AND LOCATE UNDERGROUND UTILITIES BEFORE CONSTRUCTION STARTS. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF ANY UTILITY CONFLICTS WITH THE CONSTRUCTION OF IMPROVEMENTS DESCRIBED IN THE PLANS.
- THE CONTRACTOR SHALL REMOVE (NOT STORE) PORTIONS OF THE EXISTING MBGF AND TIMBER POSTS AS SHOWN ON THE PLANS.
- THE CONTRACTOR MAY SALVAGE AND REUSE EXISTING TIMBER POSTS TO CONSTRUCT SHORT RADIUS MBGF IF POSTS ARE IN GOOD CONDITION WITH NO INDICATION OF ROTTING OR FAILURE. STEEL AND COMPOSITE MATERIAL POSTS ARE NOT PERMITTED.
- THE CONTRACTOR SHALL FIELD FIT A 15' (+/-) SHORT RADIUS MBGF AS SHOWN ON THE PLANS.
- THE TIMBER POSTS SHALL NOT BE INSTALLED IN THE EXISTING CONCRETE SLAB.
- THE CONTRACTOR MAY ADJUST THE SPACING OF THE TIMBER POSTS TO AVOID THE EXISTING CONCRETE SLAB AND UTILITIES.
- THE CONSTRUCTOR SHALL INSTALL THE SHORT RADIUS MBGF USING A RAIL SPLICE AS INDICATED ON THE PLANS. THE NEW MBGF SHALL BE INSTALLED LEVEL WITH THE EXISTING ELEVATION OF THE MBGF AT THE SPLICE LOCATION.
- 10. THE CONTRACTOR SHALL REMOVE ALL EXCAVATED MATERIALS IMMEDIATELY AFTER DIGGING THE HOLES FOR THE TIMBER POSTS.

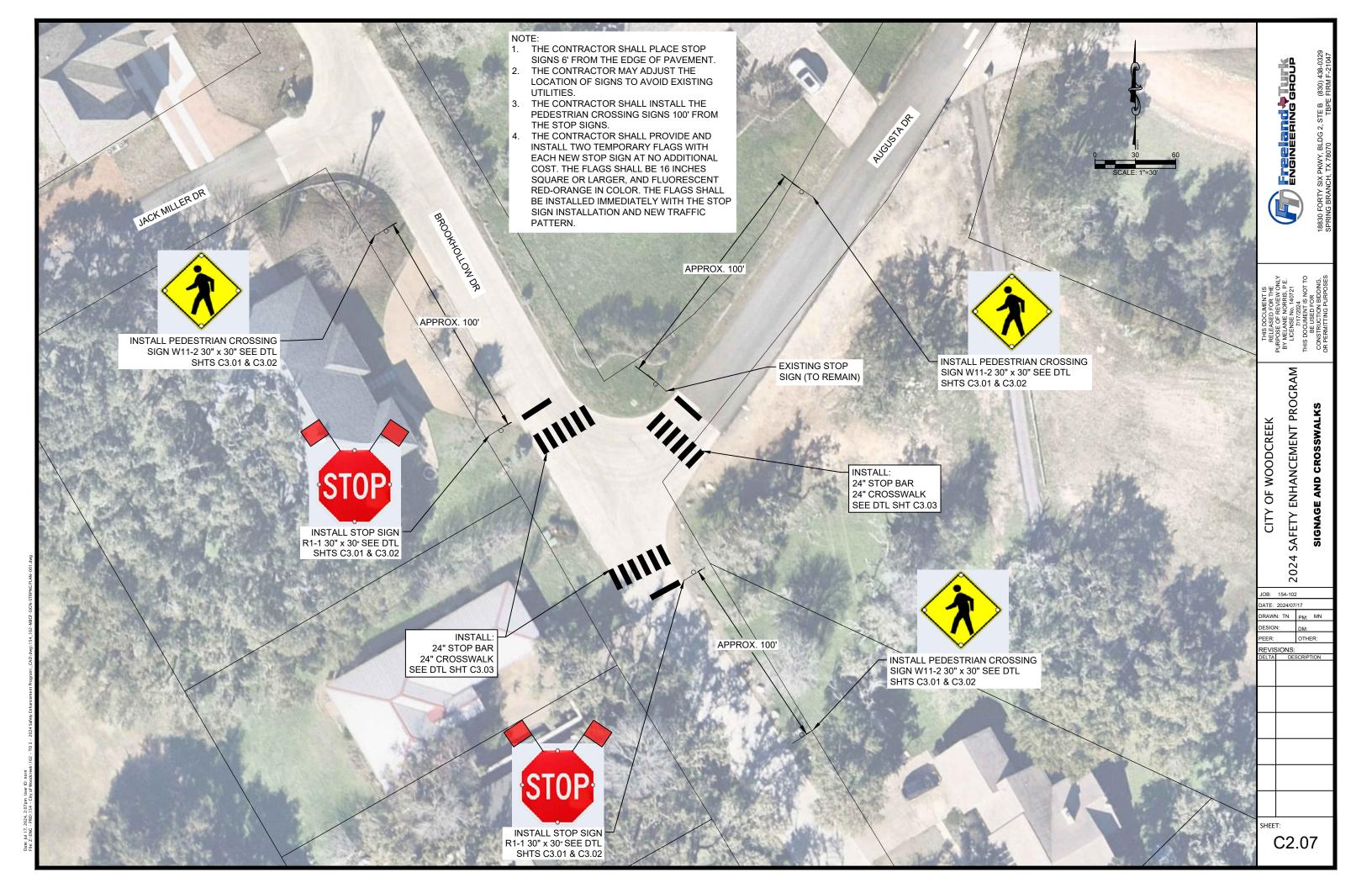




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SAFETY ENHANCEMENT PROGRAM GUARDRAIL MODIFICATION PLAN CITY OF WOODCREEK 2024

IOB: 154-102 ATE: 2024/07/1 REVISIONS:



- THE CONTRACTOR SHALL ASSEMBLE AND INSTALL SOLAR POWERED DIGITAL SPEED SIGNS PROVIDED BY THE CITY OF WOODCREEK.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE POSTS AND PROVIDE REQUIRED MOUNTING HARDWARE AS NECESSARY FOR THE SOLAR POWERED DIGITAL SPEED SIGNS.
- S. THE SIGN LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL PLACE SIGNS WHERE THEY WILL BE FULLY VISIBLE. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL TRIM ANY TREE LIMBS OR SHRUBS THAT WILL BLOCK THE VIEW OF THE INSTALLED SIGNS AT NO ADDITIONAL COST.







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Freeland Turk engineering group

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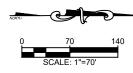
CITY OF WOODCREEK
2024 SAFETY ENHANCEMENT PROGRAM
DIGITAL SPEED SIGN
LOCATIONS SHT 1

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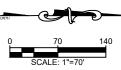
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- 1. THE CONTRACTOR SHALL ASSEMBLE AND INSTALL SOLAR POWERED DIGITAL SPEED SIGNS PROVIDED BY THE CITY OF WOODCREEK
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE POSTS AND PROVIDE REQUIRED MOUNTING HARDWARE AS NECESSARY FOR THE SOLAR POWERED DIGITAL SPEED SIGNS.
- THE SIGN LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL PLACE SIGNS WHERE THEY WILL BE FULLY VISIBLE. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL TRIM ANY TREE LIMBS OR SHRUBS THAT WILL BLOCK THE VIEW OF THE INSTALLED SIGNS AT NO ADDITIONAL COST.



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DIGITAL SPEED SIGN LOCATIONS SHT 2

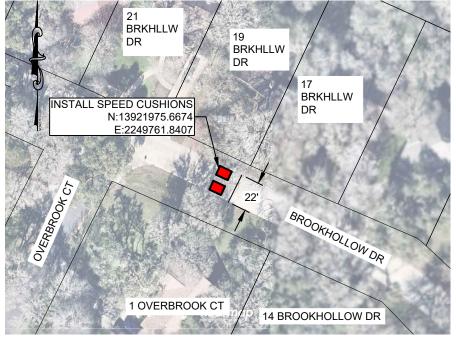
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CITY OF WOODCREEK

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165 AUGUSTA DR

SCALE: 1" = 60'



24 WOODCREEK DR

29 WOODCREEK

27 WOODCREEK DR

SCALE: 1" = 80'

26 WOODCREEK DR

- SEE SHTS C3.05 & C3.06 FOR SPEED CUSHION DETAILS. INSTALLATION SPACING IS DEPENDENT ON ROADWAY WIDTH, NOTIFY ENGINEER OF ANY DISCREPANCIES.
  SPEED CUSHIONS SHALL BE
- INSTALLED AT LEAST 7 FEET AWAY FROM ALL SURROUNDING DRIVEWAYS.
- THE CONTRACTOR SHALL INSTALL SPEED CUSHIONS PER MANUFACTURER INSTALLATION RECOMMENDATIONS.

**INSTALL SPEED CUSHIONS** 

27 WOODCREEK DR

25 WOODCREEK

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SAFETY ENHANCEMENT PROGRAM CITY OF WOODCREEK 2024

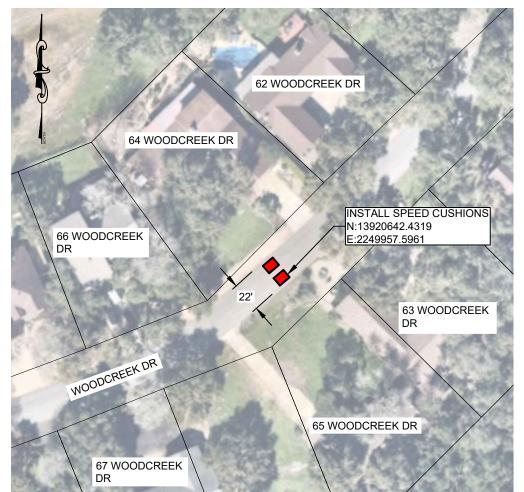
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19 BROOKHOLLOW DR

SCALE: 1" = 70'





65 WOODCREEK DR SCALE: 1" = 70'

81 BROOKHOLLOW DR

SCALE: 1" = 60'

SHEET:

PLATE WASHER FOR METAL BEAM

(Galvanized after fabrication)

%" x 2" Anchor Bolts with 1 3/4" O.D. washer

and hex nut

ANCHOR POST

**ELEVATION LAYOUT** 

1. The "Driveway" Terminal Anchor Section is ONLY to be used within driveway locations, where the ROW is limited and a standard 25 ft. (TAS) Terminal Anchor Section, is too long.

2. Terminal anchor post shall be set in Class A concrete.

All steel shall be galvanized after fabrication in accordance with Item 445, "Galvanizing."

GENERAL NOTES

SOEVER USE.

POSE

TXDOT FOR ANY PURF DAMAGES RESULTING

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ICE ACT". NO WARRANTY OF TO OTHER FORMATS OR FOR

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DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED TXDOT ASSUMES NO RESPONSIBILITY FOR

18"dia.\_

#### GENERAL NOTES

- The type of (CRT) post (round wood post, or rectangular wood post) will be shown elsewhere in the plans. The exact position of MBGF shall be shown elsewhere in the plans or as directed by the Engineer.
- 2. Steel posts are not permitted at CRT post positions.

1  $\sim \frac{1}{8}$ " Button Head Post Bolt with Nut and 1  $\frac{3}{4}$ "O.D. Washer.

Direction of

6 1/4"

12 1/2"

RAIL ADAPTER

Rail - 10 gauge (Galvanized after fabrication)

- Rail element shall meet the requirements of Item 540, "Metal Beam Guard Fence" except as modified on the plans. The Contractor may furnish rail elements of 12  $\frac{1}{2}$  or 25 foot nominal lengths.
- Button head "post" bolts (ASTM A307) shall be of sufficient length to extend through the full thickness of the nut (ASTM A563) and Type A (1  $\frac{1}{4}$ " 0.D.) washer and not more than 1" beyond it. Button head "splice" bolts (ASTM A307) are  $\frac{1}{4}$ " v. 2" long at triple rail splices) with a  $\frac{1}{4}$ " double recessed nut (ASTM A563).
- 5. Fittings (bolts, nuts, and washers) shall be galvanized in accordance with Item 445, "Galvanizing." Fittings shall be subsidiary to the bid item.
- 6. Crown shall be widened to accommodate the Metal Beam Guard Fence.
- The lateral approach to the guard fence, shall have a slope rate of not more
- 8. Unless otherwise shown in the plans, guard fence placed in the vicinity of curbs shall be positioned so that the face of curb is located directly below or behind the face of the block. Rail placed over curbs shall be installed so that the post bolt is located approximately 21 inches above the gutter pan or roadway surface.
- 9. If solid rock is encountered within 0 to 18" of the finished grade, drill a 22" dia. hole, 24" into the rock, or drill two 12" dia. front to back overlapping holes, 24" into the rock. If solid rock is encountered below 18", drill a 12" dia. hole, 12" into the rock or to the standard embedment depth, whichever is less. Any excess post length, after meeting these depths, may be field cut to ensure proper guardrail mounting height. Backfill with a cohesionless material.
- 10. Guardrail posts shall not be set in concrete, of any depth.
- Special rail fabrication will be required at installations having a curvature of less than 150 ft. radius. The required radius shall be shown on the plans.
- The terminal anchor section (TAS) post shall be set in Class A concrete (unless otherwise shown in the plans) in accordance with Item 421, "Hydraulic Cement Concrete." Concrete shall be subsidiary to the bid item requiring construction of the terminal anchor section (TAS). Terminal anchor post to be galvanized in accordance with Item 445, "Galvanizing."
- 13. Unless otherwise shown in the plans, a composite material post and/or block that meets the requirements of DMS-7210, "Composite Material Posts and Blocks for Metal Beam Guard Fence" may be substituted for posts and/or blocks of similar dimensions. The Construction Division, TxDOT maintains a Material Producer List (MPL) for producers of materials conforming to DMS-7210. Only producers on the MPL can furnish composite material posts and/or blocks.

HIGHLY CONSTRAINED SITE CONDITIONS.



METAL BEAM GUARD FENCE (SHORT RADIUS)

ONLY FOR USE IN MAINTENANCE REPAIRS OR

MBGF (SR) -19

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ENHANCEMENT PROGRAM FENCE BEAM GUARD F DETAIL

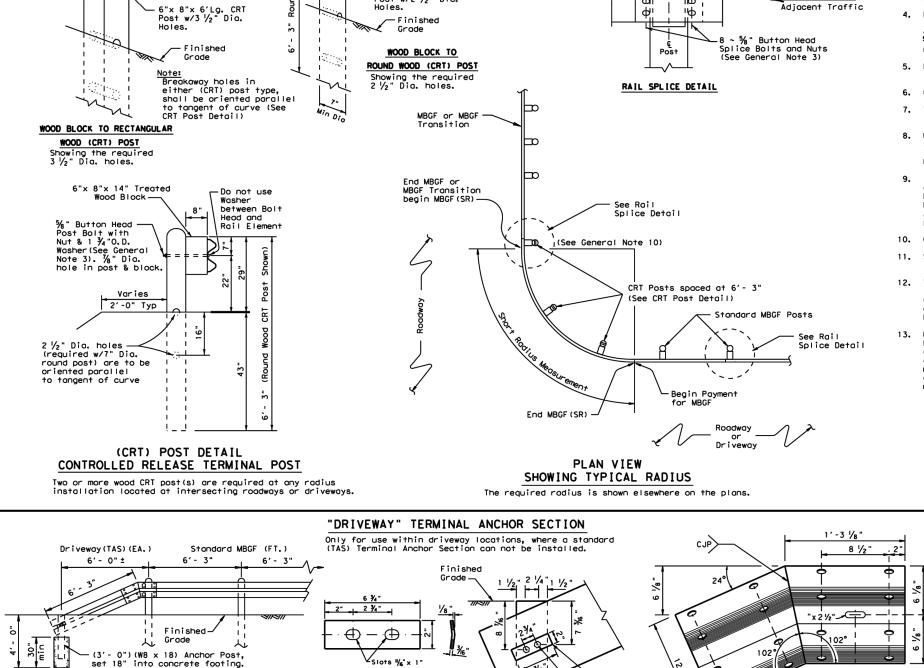
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CITY SAFETY OB: 154-102 ATE: 2024/07/17

AWN: TN PM: MN SIGN: OTHER: REVISIONS:

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(Descriptive Codes correspond to project estimate and quantities sheets)

#### SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX) Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP)) TWT = Thin-Wolled Tubing (see SMD(TWT)) 10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3)) S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

#### Number of Posts (1 or 2) -

#### Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT)) UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))

- WS = Wedge Anchor Steel (see SMD(TWT))
- WP = Wedge Anchor Plastic (see SMD(TWT))
  SA = Slipbase Concreted (see SMD(SLIP-1) to (SLIP-3)) SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

#### Sian Mounting Designation

- P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
- T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
  U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))

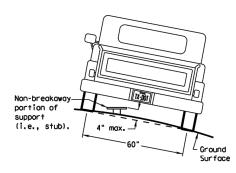
No more than 2 sign

posts should be located

within a 7 ft. circle.

- IF REQUIRED
- 1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT)) BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
- WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3)) EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

### REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project (i.e., typical space between wheel paths).

7 ft.

diameter

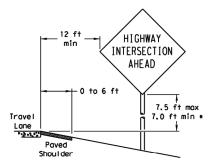
Not Acceptable

circle

Not Acceptable

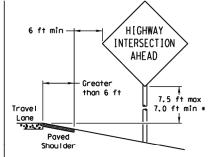
#### SIGN LOCATION

#### PAVED SHOULDERS



#### LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



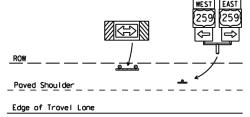
#### GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

## - 12 ft min - 6 ft min 7.5 ft max 7.0 ft min \* Travel Shou I der

T-INTERSECTION

When this sign is needed at the end of a two-lane. two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.





- \* Signs shall be mounted using the following condition that results in the greatest sign elevation:
- (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- grade at the base of the support when sign is installed on the backslope.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is: http://www.txdot.gov/publications/traffic.htm

## (2) a minimum of 7 to a maximum of 7.5 feet above the The maximum values may be increased when directed by

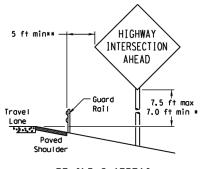
Texas Department of Transportation Traffic Operations Division

### SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD (GEN) -08

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BEHIND BARRIER



BEHIND GUARDRAIL

7.5 ft max - Concrete Travel 7.0 ft min Barrier

RESTRICTED RIGHT-OF-WAY

(When 6 ft min, is not possible,)

7.5 ft max

7.0 ft min a

HIGHWAY

INTERSECTION

AHEAD

BEHIND CONCRETE BARRIER

HIGHWAY

INTERSECTION

AHEAD

\*\*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

Maximum

Trovel

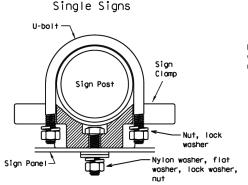
### TYPICAL SIGN ATTACHMENT DETAIL

Not Acceptable

7 ft.

diameter

circle



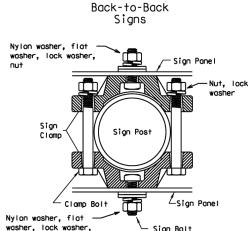
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Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum,

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.



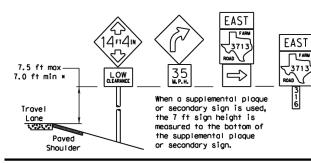
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diometer

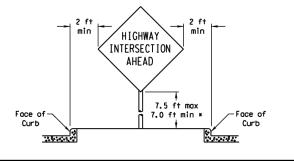
circle

	Approximate Bolt Length					
Pipe Diameter	Specific Clamp	Universal Clamp				
2" nominal	3"	3 or 3 1/2"				
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"				
3" nominal	3 1/2 or 4"	4 1/2"				

#### SIGNS WITH PLAQUES



#### CURB & GUTTER OR RAISED ISLAND



Shou I der Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as for from the travel lane as practical.

\*\*\* Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

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Free and Turk engineering group

SAFETY ENHANCEMENT PROGRAM

2024

AWN: TN PM: MN

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### TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

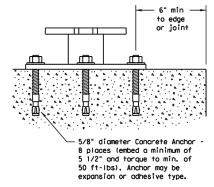
#### 10 BWG Tubing or Keeper Plate Schedule 80 Pipe (See General Note 3) Slip Base 5/8" structural bolts (3), nuts (3), and washers (6) per ASTM A325 Washers if required by or A449 and galvanized per Item 445 "Galvanizing." Bolt length is 2 1/2". T 3/4 " diameter hole. Provide a 7" x 1/2" diameter rod or #4 rebar. Class A concrete 12" min. Non-reinforced (shall be used elsewhere in the plans). Foundation should take approx. 2.5 cf of concrete. - 12" Dia

SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

#### 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.

#### CONCRETE ANCHOR



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" digmeter 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 normal weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

#### GENERAL NOTES:

- 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.

  2. Material used as post with this system shall conform to the following specifications:

  10 BWG Tubing (2.875" outside diameter)

0.134" nominal wall thickness

Seamless or electric-resistance welded steel tubing or pipe

Steel shall be HSLAS Gr 55 per ASTM Aloll or ASTM Alons
Other steels may be used if they meet the following:
55,000 PSI minimum yield strength
70,000 PSI minimum tensile strength

20% minimum elongation in 2"

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. Schedule 80 Pipe (2.875" outside diameter)

0.276" nominal wall thickness

Steel tubing per ASTM A500 Gr C

Other segmless or electric-resistance welded steel tubing or pipe with equivalent

outside diameter and wall thickness may be used if they meet the following: 46,000 PSI minimum yield strength

62,000 PSI minimum tensile strength 21% minimum elongation in 2"

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" Galvanization per ASTM A123 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.

#### ASSEMBLY PROCEDURE

#### Foundation

- 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.
- 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 povement 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 clearances based on sign types.



SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

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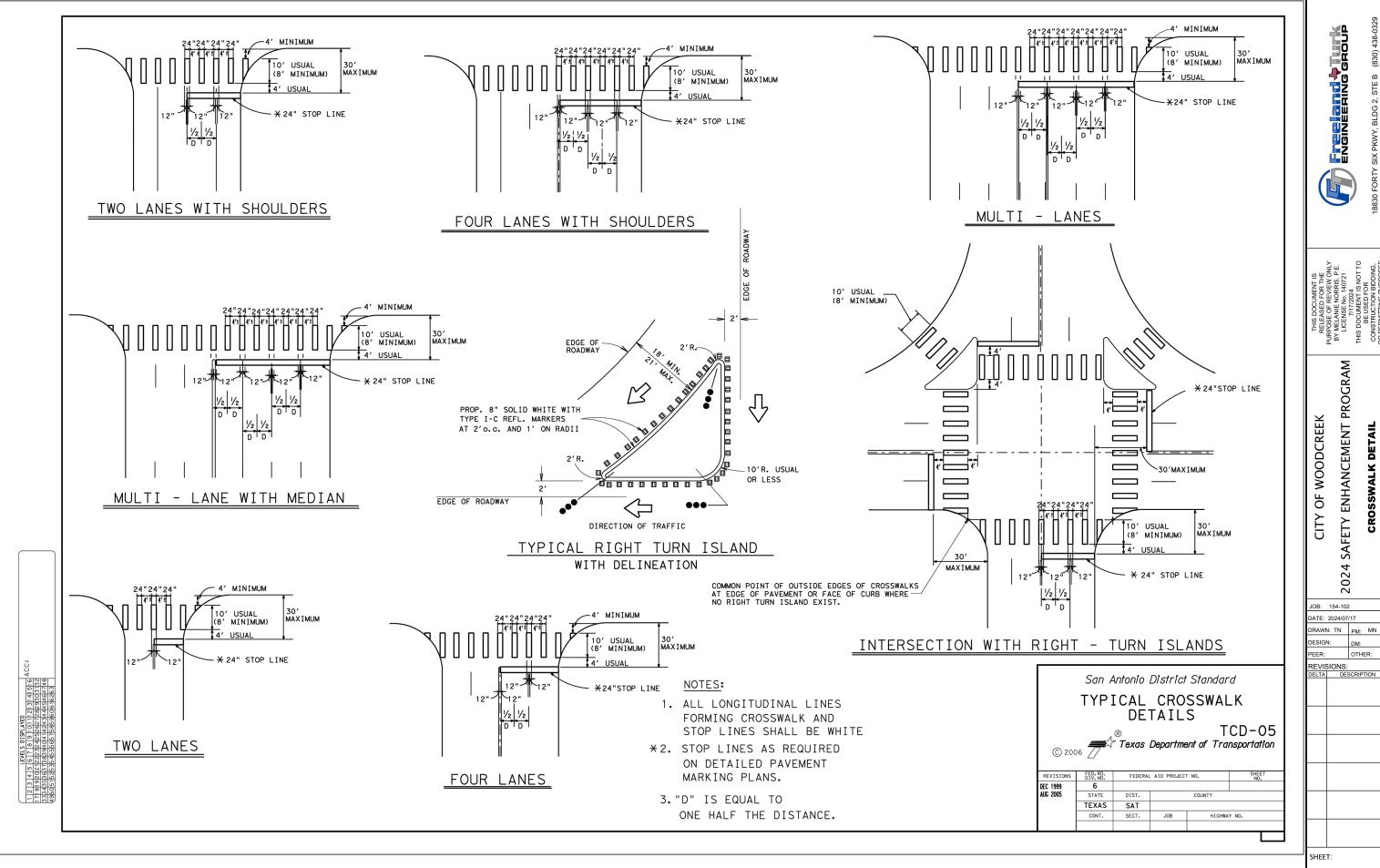
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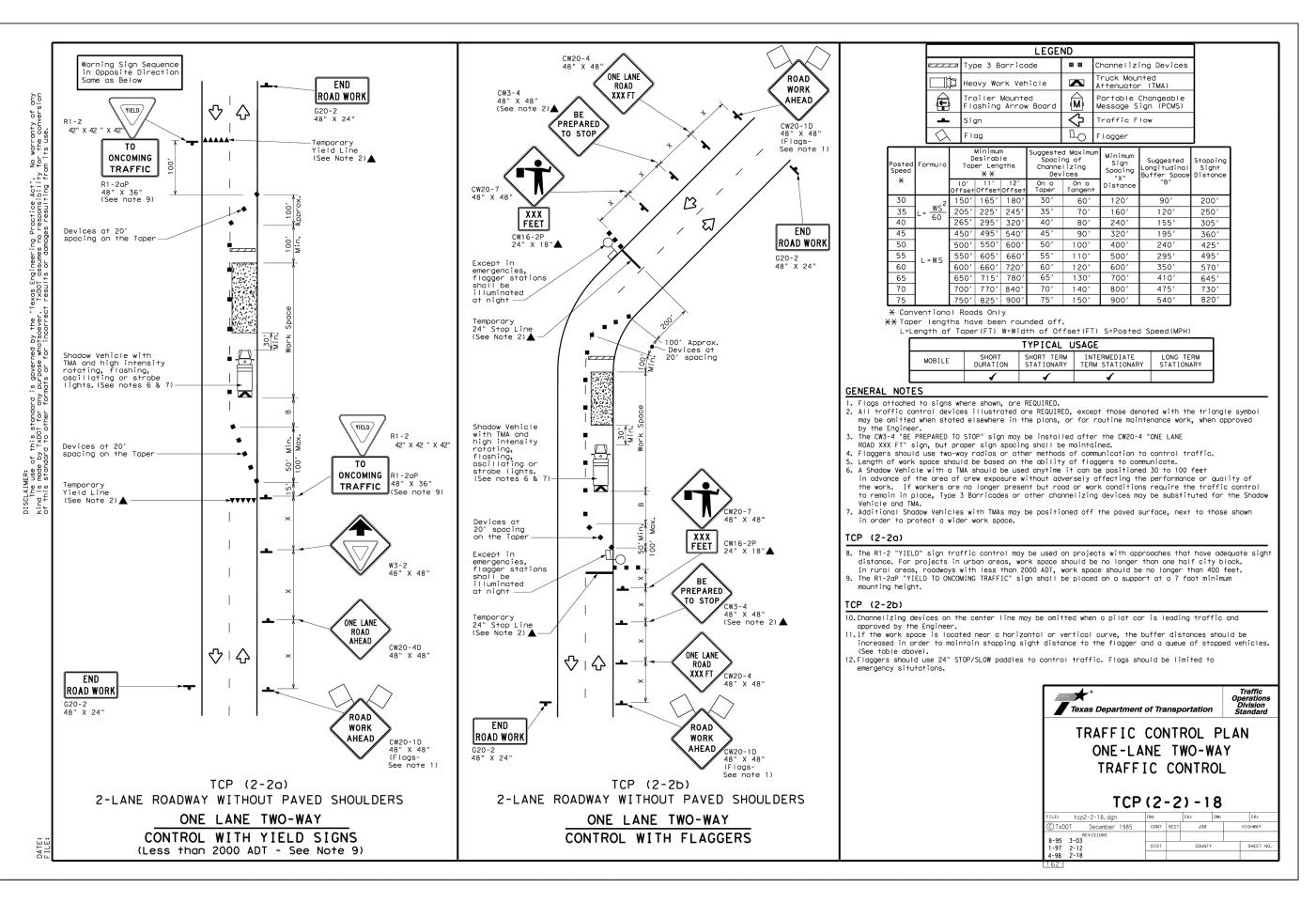
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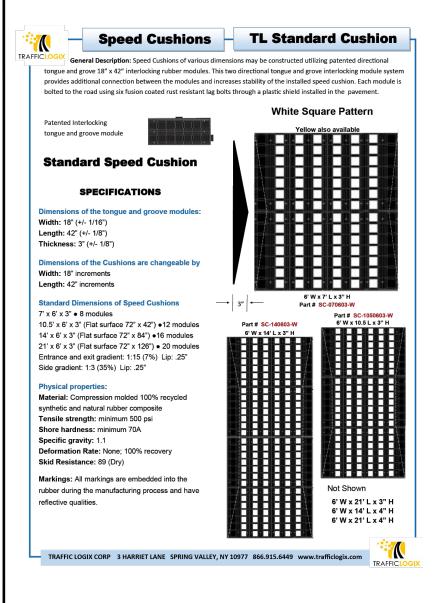
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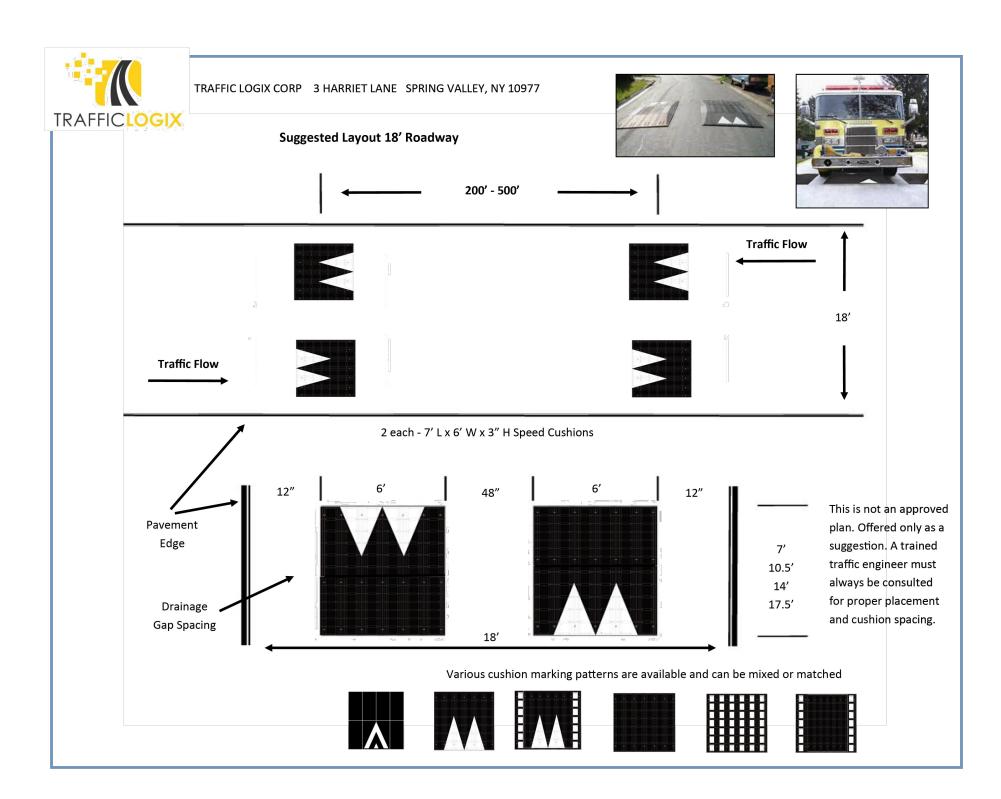
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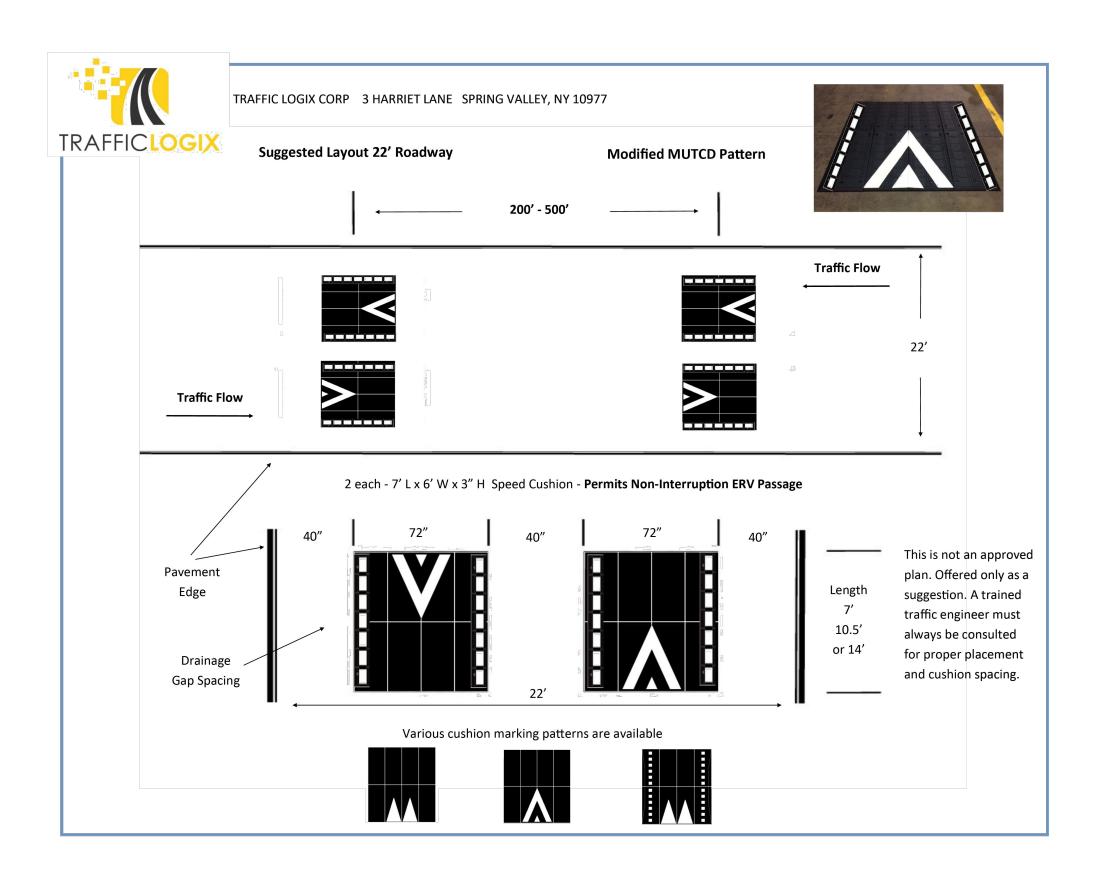
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Freeland & Turk

2024 SAFETY ENHANCEMENT PROGRAM CITY OF WOODCREEK

JOB: 154-102 DATE: 2024/07/17

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

#### SEDIMENT CONTROL FENCE USAGE GUIDELINES

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

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

#### LEGEND

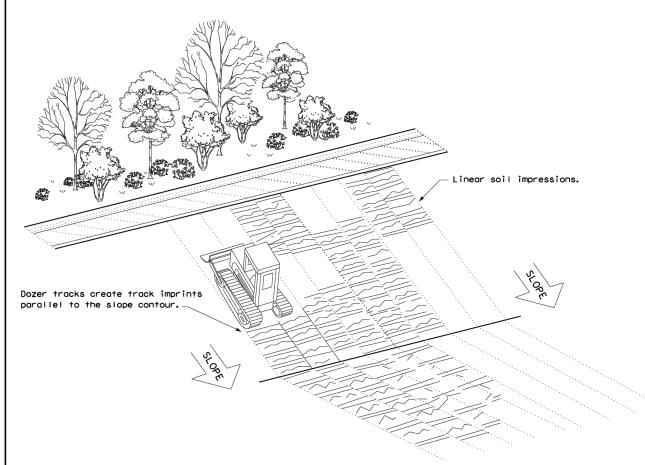
Embed posts 18" min.

or Anchor if in rock.

Sediment Control Fence \_\_\_\_(SCF)\_\_\_\_

#### **GENERAL NOTES**

- 1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- perpendicular to the slope or direction of water flow.





TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING

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2. Perform vertical tracking on slopes to temporarily stabilize soil.

4. Do not exceed 12" between track impressions.

Install continous linear track impressions where the minimum 12" length impressions are

VERTICAL TRACKING

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