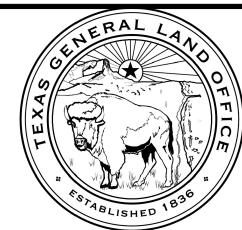


AUSTIN COUNTY, TEXAS

STREET IMPROVEMENTS - CDBG DR PROJECT #20-065-065-C184 PRECINCT #4 - PETERS SAN FELIPE SITE







AUSTIN COUNTY JUDGE

TIM LAPHAM

COMMISSIONERS

PRECINCT #1 MARK LAMP

PRECINCT #2 ROBERT "BOBBY" RINN

PRECINCT #3 LEROY CERNY PRECINCT #4 CHIP REED

SHEET INDEX:

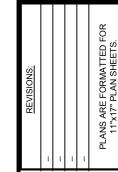
- **COVER SHEET & SHEET INDEX**
- **VICINITY MAP & PROJECT LOCATIONS**
- **GENERAL NOTES & DETAILS**
- PETERS SAN FELIPE ROAD SURVEY
- PETERS SAN FELIPE TRAFFIC CONTROL PLAN
- PLAN AND PROFILE
- **DETAILS**

D & OM (1)-20 DELINEATOR & OBJECT MARKER MATERIAL DESCRIPTION D & OM (2)-20 DELINEATOR & OBJECT MARKER INSTALLATION METAL BEAM GUARD FENCE TL-3 MASH COMPLIANT SGT(12S)31-18 SINGLE GUARDRAIL TERMINAL MSKT-MASH-TL-3



PETERS SAN FELIPE SITE

COVER SHEET & SHEET INDEX



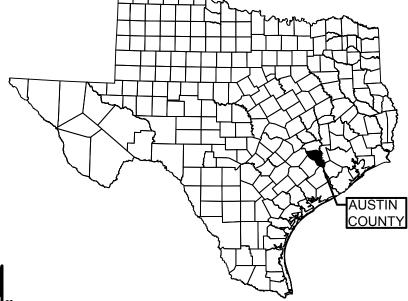


REVIEWED BY: A. WRIGHT

PROJECT NO:



PORT ARTHUR | TERRELL | TYLER 320 S. Broadway Ave., SUITE 200 Tyler, TX 75702 903.595.3913 Firm Registration No. F-520



LOCATION MAPS:



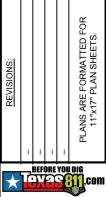




STREET IMPROVEMENTS CDBG-DR PROJECT 20-065-065-C184

> PETERS SAN FELIPE SITE VICINITY MAP

VICINITY MAP & PROJECT LOCATIONS



DRAWN BY:

REVIEWED BY:
A. WRIGHT

PROJECT NO: 303600.00

SHEET NO:

2

HE CONTRACTOR SHALL ENSURE THAT POSTAL, GARBAGE COLLECTION, AND OTHER SERVICES ARE NOT INTERRUPTED BECAUSE OF CONSTRUCTION. THE CONTRACTOR IS ESPONSIBLE FOR SCHEDULING AND COORDINATING WITH OCAL SERVICE PROVIDERS AND RESIDENTS TO ENSURE AT THESE SERVICES ARE UNINTERRUPTED

LAGMEN ARE ENCOURAGED TO HELP FACILITATE LOCAL

- 1. THE CONTRACTOR IS HEREBY NOTIFIED THAT ALL EXISTING UTILITIES WHETHER BURIED OR OVERHEAD MAY NOT BE SHOWN ON THE PLANS EXACT LOCATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN OF THESE PLANS OR NOT, SHOULD BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRS SHALL BE MADE IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. CONTACT TEXAS811 BY DIALING 811 FOR LOCATES.
- 2.CONTRACTOR SHALL AVOID DAMAGE TO PRIVATE PROPERTY. ANY DAMAGES TO PRIVATE PROPERTY CAUSE BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED/REPLACED IMMEDIATELY AT CONTRACTORS EXPENSE.
- 3. CONTRACTOR SHALL AVOID DISTURBANCE TO EXISTING ITEMS. ALL DAMAGES TO ANY EXISTING ITEMS CAUSED BY THE CONSTRUCTION ACTIVITIES WILL BE REPAIRED/REPLACED AT CONTRACTOR'S COST
- 4. THE REMOVAL AND PROPER DISPOSAL OF ALL ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ALL ITEMS DESIGNATED BY THE COUNTY TO BE SALVAGED SHALL BE DELIVERED AND OFF LOADED TO THE COUNTY YARD. DISPOSAL/SALVAGE PROCEDURES SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE COSTS FOR DEMOLITION, AND NO SEPARATE PAYMENTS WILL BE

TREET RECONSTRUCTION NOTES:

APPURTENANCES OUTSIDE THE LIMITS OF WORK, AND NOT DESIGNATED IN THE PLANS OR DIRECTED IN THE FIELD BY THE ENGINEER, SHALL BE RESTORED TO SAME OR BETTER CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE.

ROSION CONTROL (SWP3) NOTES:

- PRIOR TO THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL SUBMIT A COMPLETED STORMWATER POLLUTION PREVENTION PLAN (SWP3) TO THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL
- 2. THE CONTRACTOR SHALL SUBMIT AN APPROPRIATE NOTICE OF INTENT (NOI) IF REQUIRED PER TCEQ REQUIREMENTS PRIOR TO PERFORMING ANY SOIL DISTURBING ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL FEES ASSOCIATED WITH OBTAINING A CONSTRUCTION PERMIT TO DISCHARGE
- 3. THE CONTRACTOR SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION (NOT) IF REQUIRED IN ACCORDANCE WITH TCEQ REQUIREMENTS UPON COMPLETION OF GRADING ACTIVITIES AND ESTABLISHMENT OF REQUIRED VEGETATIVE COVER PER SWP3 REQUIREMENTS AND OWNER'S ACCEPTANCE PER CONTRACT DOCUMENTS
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND INSPECTION OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN ACCORDANCE WITH THE PLANS, THE SWP3 AND TCEQ REQUIREMENTS.
- 5. TEMPORARY OR PERMANENT EROSION CONTROL MEASURES SHALL BE USED TO PREVENT SILT FROM LEAVING THE PROJECT SITE DURING CONSTRUCTION TEMPORARY EROSION CONTROLS MAY INCLUDE SILT FENCES, STRAW WATTLES, BERMS, DIKES, SWALES STRIPS OF UNDISTURBED VEGETATION, ROCK FILTER CHECK DAMS AND OTHER METHODS AS REQUIRED BY THE ENGINEER OR HIS REPRESENTATIVE AND AS SPECIFIED IN THE PLANS AND CONTRACT DOCUMENTS.
- 6. ALL FINISHED GRADE SLOPES STEEPER THAN 4:1, AND FLOW LINES OF ALL DRAINAGE DITCHES AND SWALES, SHALL BE COMPLETELY COVERED WITH SOIL RETENTION BLANKET (SRR) TO PROMOTE REVEGETATION AND TO OHIBIT EROSION. SRB SHALL BE PER TXDOT ITEM 169, CLASS 1, TYPE C.
- 7. ALL DISTURBED AREAS NOT REQUIRING SRB SHALL BE COVERED WITH HAY OR STRAW MUI CH IMMEDIATELY FOLLOWING PERMANENT SEEDING. MULCH SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR PERMANENT SEEDING AND NO SEPARATE PAYMENT WILL
- 8. THE COST OF FERTILIZER AND WATER TO PROMOTE RE-VEGETATION IS SUBSIDIARY TO THE UNIT PRICE BID FOR PERMANENT SEEDING AND NO SEPARATE PAYMENT WILL BE MADE
- 9 FROSION CONTROL MEASURES NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT BID PROPOSAL SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES INCLUDED. N THE BID PROPOSAL AND NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS.

EARTHWORK AND GRADING NOTES

- 1. UNLESS OTHERWISE DIRECTED IN THE CONTRACT DRAWINGS, ALL DISTURBED AREAS SHALL BE RE-GRADED TO PRE-CONSTRUCTION CONTOURS AND PERMANENT PLANS AND CONTRACT DOCUMENTS.
- 2. EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6". THE MOISTURE CONTENT SHALL BE ADJUSTED AND AND RECOMPACTED TO A MINIMUM DENSITY OF 95% OF THE MAXIMUM DENSITY (90% FOR NON-PAVED AREAS) AS DEFINED BY ASTM D 698 (STANDARD PROCTOR), MAINTAIN THE SPECIFIED MOISTURE CONTENT UNTIL SUBGRADE IS COVERED WITH FILL OR GEOMEMBRANE LINER.
- 3. EMBANKMENT MATERIAL SHALL BE INSTALLED IN LOOSE LIFTS NOT TO EXCEED 9 INCHES THICKNESS. EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DEFINED BY ASTM D 698. (STANDARD PROCTOR). MOISTURE CONTENT SHALL BE IN THE RANGE OF MINUS 2% TO PLUS 3% OPTIMUM. THIS INCLUDES MATERIALS USED TO PLATE THE EMBANKMENT SLOPES WHERE REQUIRED
- 4. SITES THAT SLOPE GREATER THAN 6:1 (ABOUT 15%) SHALL BE BENCHED WITH 5 FOOT WIDE BENCHES PRIOR TO PLACING FILL, TESTING FOR ATTERBERG LIMITS SHALL BE CONDUCTED AT A RATE OF 1 TEST PER EACH
 CULVERT/BRIDGES REPLACEMENT SITE. IN-PLACE FIELD DENSITY TESTS SHALL BE PERFORMED FOR EACH APPROACH (2 PER SITE) PER LIFT.
- 5. THE CONTRACTOR SHALL TAKE CARE TO PREVENT EXCESSIVE LOSS OF MOISTURE DURING CONSTRUCTION
- 6. DEWATERING WILL BE REQUIRED IN THE REPLACEMENT OF MANY OF THE CULVERT/BRIDGE SITES ON THE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE METHOD OF DEWATERING REQUIRED TO PERFORM THE CONSTRUCTION. METHODS REQUIRING ENGINEERED DESIGN, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL THIS SUBMITTAL SHALL INCLUDE DRAWINGS, DETAILS, AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. THIS WORK WILL BE SUBSIDIARY TO THE UNIT PRICE BID FOR BOX CULVERTS AND REINFORCED CONCRETE SLAB INCLUDED IN THE BID PROPOSAL AND NO SEPARATE PAYMENT WILL BE MADE.

NATURAL AND CULTURAL RESOURCES NOTES

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FACILITIES. CUI TURAL RESOURCES. AND NATURAL RESOURCES RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, FACILITIES, AND NATURAL AND CULTURAL RESOURCES. (OUTSIDE OF DESIGNATED WORK AREAS) CAUSED BY CONSTRUCTION ACTIVITIES.

- 2 BENCHMARKS CONTROL POINTS AND MONUMENTS SHALL NOT BE ESTABLISHED ON, OR PLACED IN, TREES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- 3 BURNING OF BRUSH AND TRASH SHALL NOT BE ALLOWED WITHOUT APPROVAL FROM THE COUNTY **ENGINEER**

GENERAL NOTES:

 ALL CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

SUPPLEMENT NOTES TO TXDOT STANDARD SPECIFICATIONS ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TXDOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES 2014 VERSION, EXCEPT AS REVISED OR CLARIFIED IN THE SUPPLEMENT NOTES THAT FOLLOW

ITEM 100 - PREPARING RIGHT OF WAY

THIS ITEM SHALL INCLUDE REMOVAL AND DISPOSAL OF TREES AND BRUSH, PIPE CULVERT OF VARIOUS MATERIAL TYPES, FENCING, WATER GAPS, CONCRETE AND ASPHALT RUBBLE. AND ALL OTHER ITEMS WITHIN THE CONSTRUCTION LIMITS NOT SPECIFICALLY DESIGNATED FOR REMOVAL BY OTHER PAY ITEMS. THIS ITEM SHALL ALSO INCLUDE PRUNING OF TREES ADJACENT TO THE CONSTRUCTION LIMITS TO PROVIDE FOR NECESSARY CLEAR PATHWAYS FOR CONSTRUCTION

CUT TREES, BRUSH, AND STUMPS OFF TO PROPOSED

BURNING OF TREES AND BRUSH IS FORBIDDEN WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER. THE COUNTY, AND THE PROPERTY OWNER. BURNING OF TREES, BRUSH, OR ANY OTHER MATERIALS BY THE CONTRACTOR IS STRICTLY FORBIDDEN DURING COUNTY BURN BANS IN ALL INSTANCES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIND A SUITABLE LOCATION TO PROPERLY HAUL AND DISPOSE OF REMOVED ITEMS. THE COST OF HAULING AND DISPOSING OF MATERIALS IS INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM BY THE 100 FOOT STATION.

ITEM 110 - EXCAVATION

THIS ITEM INCLUDES ALL EXCAVATION REQUIRED ON THE PROJECT PER THE PLANS AND SPECIFICATIONS.

SCARIEY THE PROPOSED SUBGRADE TO 8" DEPTH BELOW THE

CONTENT TO WITHIN 0% TO +3% OF OPTIMUM, AND RE-COMPACT TO A MINIMUM OF 95% DENSITY AS DEFINED BY ASTM D 698 (STANDARD PROCTOR)

EXCAVATION SHALL BE LITTLIZED AS EMBANKMENT AND EMBANKMENT (BORROW) ON THE PROJECT AS NEEDED, OR HAULED AND DISPOSED OF OFF-SITE, HOWEVER, THE PROPERTY OWNER MAY ELECT TO HAVE THE CONTRACTOR WASTE THE EXCESS EXCAVATION ON HIS/HER PROPERTY. ESTIMATED QUANTITIES ARE BASED ON COMPACTED IN-PLACE MEASUREMENTS PRIOR TO EXCAVATION.

ITEM 112 - SUBGRADE WIDENING

THIS ITEM INCLUDES SCARIFYING THE TOP 8" OF THE EXISTING ROADWAY BASE AND UTILIZING THE EXISTING BASE MATERIAL TO RESHAPE THE PROPOSED WIDENED SUBGRADE TO CONFORM TO THE TYPICAL SECTIONS SHOWN IN THE PLANS. IE ADDITIONAL EMBANKMENT IS NEEDED, USE BORROW FROM EXCAVATION CALLED OUT ELSEWHERE ON THE PROJECT.

COMPACTION SHALL BE BY DENSITY CONTROL METHOD.

ITEM 132 - EMBANKMENT

EMBANKMENT SHALL BE TYPE D, MATERIAL FROM REQUIRED EXCAVATION AREAS ON THE PROJECT.

COMPACTION SHALL BE BY DENSITY CONTROL METHOD

FOR PLACEMENT OF EMBANKMENT, ADJUST AND MAINTAIN THE MOISTURE CONTENT TO WITHIN 0% TO +3% OF OPTIMUM AND COMPACT TO A MINIMUM OF 95% DENSITY AS DEFINED BY ASTM D 698 (STANDARD PROCTOR).

ITEM 164 - SEEDING FOR EROSION CONTROL

SEEDING SHALL BE IN ACCORDANCE WITH 164.2.1 MATERIALS, TABLES 1, 3, OR 4, DISTRICT 13 (YOAKUM DISTRICT). DEPENDING UPON THE PLANTING SEASON REQUIREMENTS. ALTERNATE SEEDING MIXTURES MAY BE SUBMITTED FOR CONSIDERATION AND APPROVAL.

ALTERING THE RECOMMENDING SEASONAL DATES MAY BE PROPOSED BY THE CONTRACTOR WITH THE ENGINEER'S/COUNTY'S CONSIDERATION AND APPROVAL. IN ALL CASES. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING VEGETATIVE COVER ON ALL DISTURBED AREAS ON THE PROJECT.

ALL DISTURBED AND SEEDED AREAS SHALL BE COVERED H MULCH IN ACCORDANCE WITH TXDOT 164.2.4, AND 164.3.2 OR 164.3.3.

PERMANENT SEEDING SHALL BE MEASURED AND PAID FOR BY THE SQUARE YARD IN ITS FINAL POSITION. MULCH, OF WHATEVER TYPE, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SEEDING

ITEM 166 - FERTILIZER

FERTILIZER SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR SEEDING.

ITEM 168 - VEGETATIVE WATERING

VEGETATIVE WATERING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE LINIT PRICE BID FOR SEEDING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH PERMANENT SEEDING ON THE PROJECT, AND TO PREVENT EROSION DURING CONSTRUCTION BY THE USE OF TEMPORARY SEEDING AND OTHER EROSION CONTROL MEASURES

ITEM 204 - SPRINKLING

SPRINKLING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS CONSTRUCTION BID ITEMS ON THE PROJECT AS REQUIRED.

ITEM 210 - ROLLING

ROLLING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS CONSTRUCTION BID ITEMS ON THE PROJECT AS REQUIRED.

ITEM 216 - PROOF ROLLING

PROOF ROLLING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR THE VARIOUS CONSTRUCTION BID ITEMS ON THE PROJECT AS REQUIRED

ITEM 247 - FLEXIBLE BASE

FLEXIBLE BASE MATERIAL SHALL BE TYPE A PER 247.2.1.2.4, AND GRADE 1-2 PER 247.2.1, TABLE 1.

THE MINIMUM PLASTICITY INDEX (PI) SHALL BE 4

RECYCLED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED AS A PART OF THE MIX DESIGN FOR NEW FLEXIBLE BASE. NO OTHER RECYCLED MATERIALS WILL BE ALLOWED AS A PART OF THE MIX DESIGN FOR NEW FLEXIBLE BASE

COMPACTION SHALL BE BY THE DENSITY CONTROL METHOD, 247.4.3.2

RIDE QUALITY WILL NOT BE REQUIRED FOR THIS PROJECT.

MEASUREMENT FOR PAYMENT OF FLEXIBLE BASE SHALL BE BY THE SQUARE YARD COMPLETE IN PLACE OF THE COMPACTED THICKNESS (8"). THE SQUARE YARD DETERMINATION WILL BE BASED UPON THE SURFACE (CROWN) WIDTH OF THE COMPLETED BASE AS SHOWN IN THE ROADWAY TYPICAL SECTION OF THE PLANS. IN OTHER WORDS, THE EDGE SLOPES WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT WILL BE SUBSIDIARY TO THE UNIT RICE BID BY THE SQUARE YARD BASED UPON THE SURFACE (CROWN) WIDTH.

ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES THIS ITEM SHALL GOVERN FOR THE INSTALLATION AND BACKFILL OF BRIDGE SPAN STRUCTURES ON THE PROJECT

ANY EXCAVATION SHAPING OR BACKELL REQUIRED FOR BRIDGE SPAN INSTALLATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR BRIDGE SPAN STRUCTURES AS NOTED IN

ALL RIPRAP FOR THIS PROJECT SHALL BE STONE RIPRAP INSTALLED TO DEPTH (THICKNESS) SHOWN IN THE PLANS. RIPRAP TYPE SHALL BE PROTECTION, DRY OF SIZE SHOWN IN THE PLANS PER TABLE 1 OF 432.2.3.4.

STONE RIPRAP SHALL BE MEASURED AND PAID FOR BY THE SQUARE YARD OF MATERIAL COMPLETE IN PLACE. THE SQUARE YARD PRICE SHALL INCLUDE FABRIC MATERIAL

ITEM 496 - REMOVING STRUCTURES

BRIDGE STRUCTURES DESIGNATED FOR REMOVAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE. A DEMOLITION PLAN SHALL NOT BE REQUIRED FOR THIS

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

THIS ITEM WILL BE MEASURED AND PAID FOR BY THE LUM SUM FOR THE COMPLETED PROJECT, THE CONTRACTOR WILL BE ELIGIBLE FOR TWENTY-FIVE PERCENT OF THE LUMP SUM RICE WITH THE FIRST MONTH'S PAY SUBMITTAL PROVIDED THAT ALL INITIALLY REQUIRED TRAFFIC CONTROL MEASURES ARE IN-PLACE, MEET SPECIFICATIONS, AND BEING MAINTAINED PROPERLY. THE REMAINDER OF THE LUMP SUM PRICE WILL BE PAID ON A MONTHLY BASIS COMMENSURATE WITH THE CONTRACTOR'S PROGRESS TOWARD COMPLETION AND DILIGENCE IN MAINTAINING THE TRAFFIC CONTROL PLAN

ITEM 506 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN (SWP3) IN ACCORDANCE WITH TCEQ GENERAL PERMIT TXR150000 REQUIREMENTS, PER TCEQ DEFINITION, THE (GREATER THAN 1 ACRE BUT LESS THAN 5 ACRES DISTURBED

SWP3, IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES, FURNISH AND MAINTAIN EROSION CONTROL DEVICES, REMOVE ALL DEVICES UPON ESTABLISHMENT OF VEGETATIVE COVER, AND TO OTHERWISE FULFILL ALL DUTIES AND OBLIGATIONS OF THE GENERAL PERMIT FOR STORMWATER DISCHARGE SHALL BE PAID FOR BY THE BID ITEM "SWP3 PREPARATION, IMPLEMENTATION, AND MAINTENANCE AND EROSION CONTROL" BY THE LUMP SUM

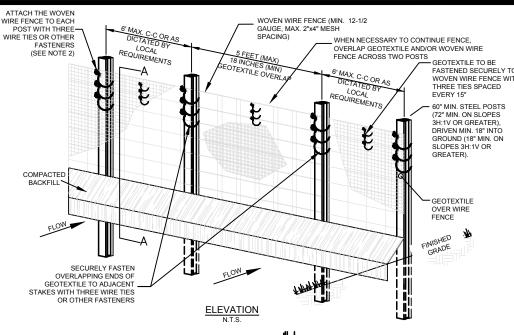
ITEM 552 - WIRE FENCE

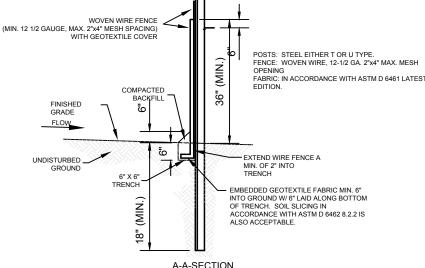
MATERIALS, SPACING AND TYPE OF POSTS, BRACES, AND CORNERS, AND GENERAL CONSTRUCTION METHODOLOGY SHALL BE OF THE SAME TYPE AND GRADE (OR BETTER) AS THAT FOR WHICH IT IS REPLACING, EXCEPT THAT ALL MATERIALS SHALL BE NEW, PROPOSED MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FURNISHING AND INSTALLING.

ITEM 658 - DELINEATOR AND OBJECT MARKER ASSEMBLIES TYPE 3 OBJECT MARKERS MOUNTED ON WINGED CHANNEL POSTS SHALL BE INSTALLED AT EACH HEADWALL.

RETAINING WALL NOTES:

- RETAINING WALL SHALL BE STEEL, HOT-DIPPED GALVANIZED SHEET PILES FOR THE BASE BID. STEEL SHALL BE 8 GAUGE AND MAXIMUM SHEET WIDTH SHALL NOT EXCEED 20 INCHES.
- ALTERNATE BID OPTION SHALL BE ALUMINUM SHEET PILE RETAINING WALL, THE ALUMINUM SHEET PILE SHALL BE COMPARABLE IN STRENGTH TO THE BASE BID STEEL WALL
- SHEET PILES SHALL BE DRIVEN TO A DEPTH THAT IS THE SAME OR GREATER THAN HEIGHT OF SOIL BEING RETAINED BUT NOT LESS THAN 3 FEET.
- RETAINING WALL SHALL BE ANCHORED IN RETAINED SOIL. AN ANCHORING PLAN SHALL BE PROVIDED BY THE CONTRACTOR. THE ANCHORING PLAN SHALL BEAR THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, THE SIGNED AND SEALED ANCHORING PLAN SHALL BE SUBMITTED AS A SHOP
- TOP OF WALL FLEVATIONS SHOWN IN THE PLAN PROFILES ARE FOR GENERAL GUIDANCE. ADJUSTMENT OF TOP OF WALL ELEVATION MAY BE NECESSARY IN THE FIELD. HOWEVER, THE ENGINEER SHALL BE NOTIFIED IN ADVANCE BEFORE MAKING ANY ADJUSTMENTS IN THE FIELD, AND IN NO INSTANCE SHALL THE TOP OF RETAINING WALL BE LESS
- RETAINING WALL CAP SHALL BE 4"X4"X4" ANGLE WELDED TO THE FACE OF THE PLATE.
- CORNERS SHALL BE 4"X4"X4" ANGLE WELDED TO THE WALL
- 8. CAPS AND CORNERS SHALL BE HOT-DIPPED GALVANIZED STEEL TO MATCH THE WALL.
- 9. CUT-OUTS AND CUT EDGES SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780
- 10. SHEET PILING SHALL CONFORM TO REQUIREMENTS OF ASTM A857 (BASE BID), PLATES AND SHAPES SHALL BEET REQUIREMENTS OF ASTM A36. GALVANIZED COATING SHALL BE PER ASTM A123





INSTALLATION SHALL COMPLY WITH ASTM D 6462 LATEST EDITION

ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 15") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ALSO, EACH TIE PLACED ON A POST SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING

WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED ACROSS TWO POSTS, 60" MAX. AS MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP, DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED 1/2 THE HEIGHT OF THE FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING 1/2 THE HEIGHT OF THE FENCE FABRIC ABOVE GRADE.

ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.

COMPACTING IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH

COMPACT THE LIPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOLIR TRIPS

SEDIMENTATION / SILT FENCE WITH WIRE SUPPORT SCALE: N.T.S.

THE EXISTING SITE AND TOPOGRAPHIC SURVEY DEPICTED ON THESE PLAN SHEETS WAS TAKEN FROM THE SURVEY PREPARED BY:

REKHA ENGINEERING INC



CIVIL ENGINEERS AND LAND SURVEYORS 7676 Hillmont, Suite 350 Houston, Texas 77040 713-895-8080 713-895-8081 Fax: 713-895-7686

TBPLS No. 10133800 *TBPE No. F−3712*

* ANDREW P. WRIGH

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STREET **IMPROVEMENTS** DBG-DR PROJEC 20-065-065-C184

> PETERS SAN FELIPE SITE

GENERAL NOTES **DETAILS**

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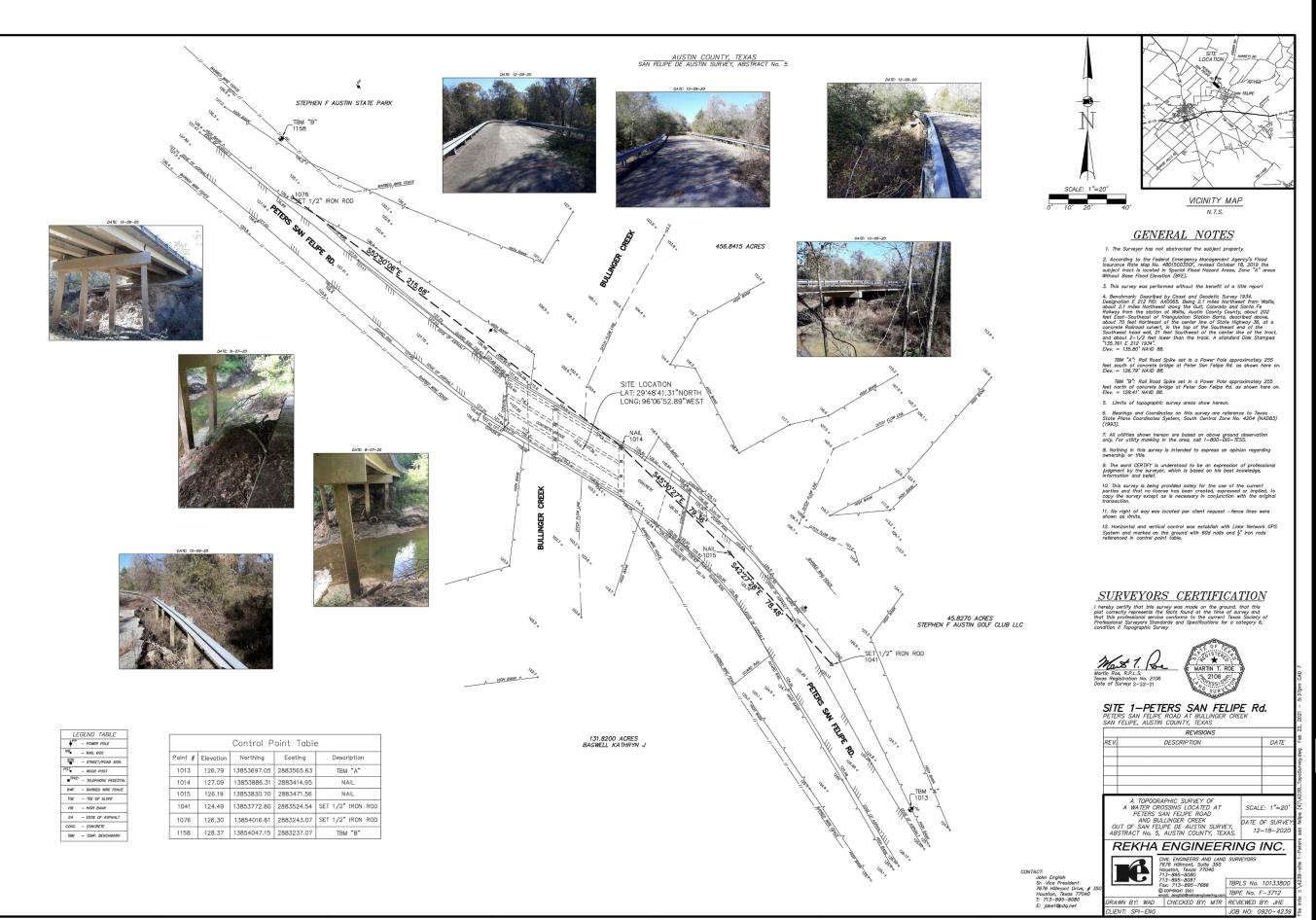


DRAWN BY A. EATON

REVIEWED BY: A WRIGHT

PROJECT NO: 303600.00

SHEET NO:







STREET **IMPROVEMENTS** CDBG-DR PROJECT 20-065-065-C184

> PETERS SAN FELIPE SITE

PETERS SAN FELIPE SURVEY

PLANS ARE FORMATTED F 11"x17" PLAN SHEETS.

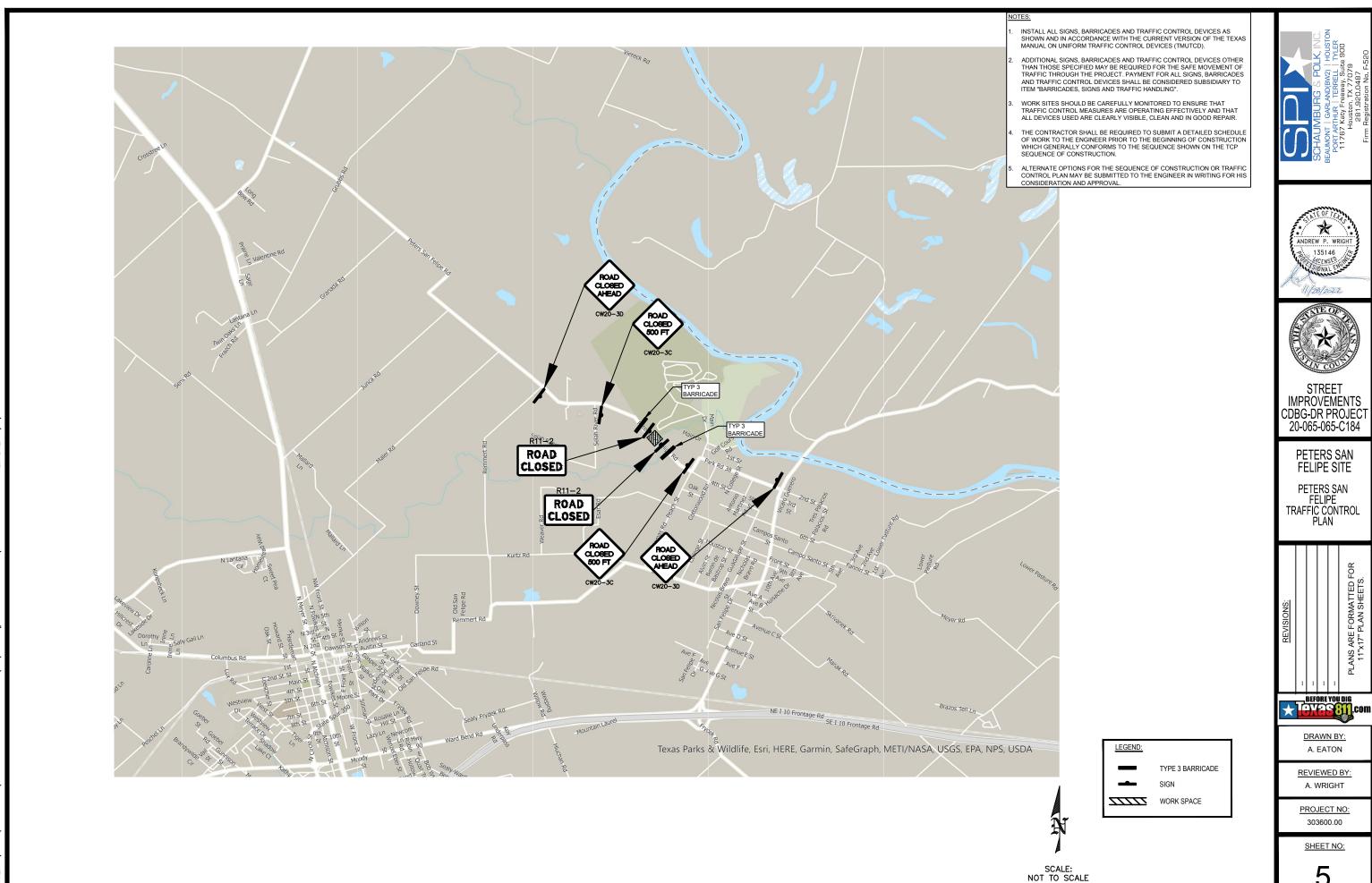
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DRAWN BY: A. EATON

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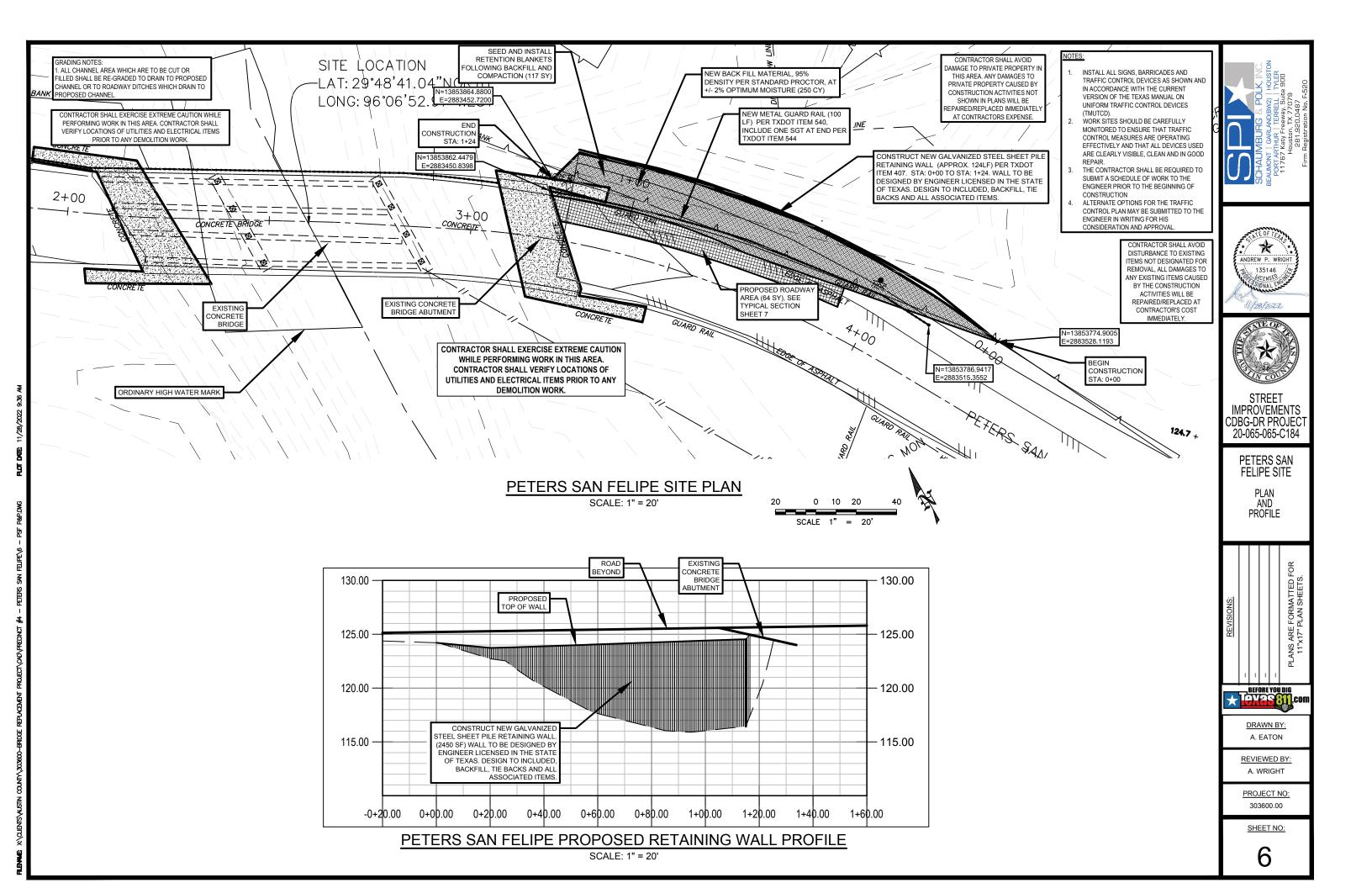




CDBG-DR PROJEC 20-065-065-C184



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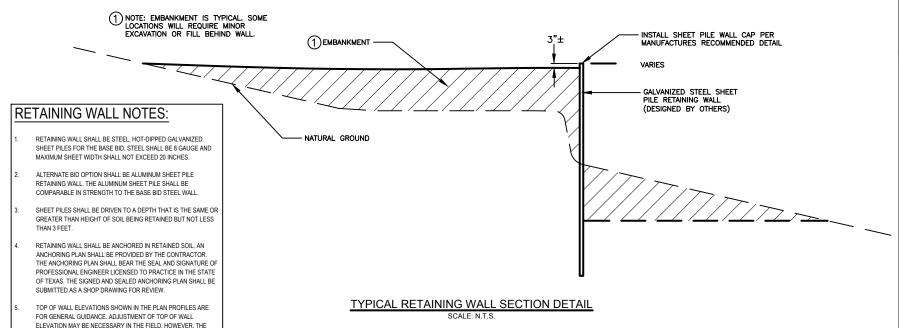


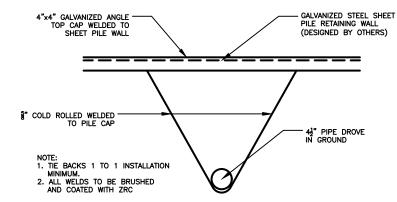






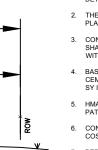
VARIES





TYPICAL RETAINING WALL TIE BACK DETAIL

- RATE FOR ASPHALT PRIME AND TACK COAT IS SHOWN FOR CONTRACTOR'S INFORMATION ONLY. ACTUAL RATES SHALL BE DETERMINED IN THE FIELD.
- 2. THE CONTRACTOR SHALL BE PAID FOR THE AMOUNT OF HMAC
- 3. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING YIELD, OWNER SHALL NOT PAY FOR QUANTITIES IN EXCESS OF BID QUANTITIES WITHOUT A FORMAL CHANGE ORDER.
- 4 BASE TESTING SHALL CONSIST OF A SINGLE PROCTOR ON THE CEMENT TREATED BASE AND IN-FIELD DENSITY TESTS AT 1000 MAX SY INTERVALS.
- 5. HMAC TESTING SHALL CONSIST OF ESTABLISHING A ROLLING PATTERN AND FIELD DENSITY TESTS AT 1000 SY MAX INTERVALS.
- 6. CONTRACTOR IS RESPONSIBLE FOR COST OF TESTING AND ALL COSTS OF REWORK AND RETESTING FOR FAILED TESTS.
- 7. PERMANENT SEEDING SHALL BE PLACED ON DISTURBED AREAS AS SOON AS CONSTRUCTION IS COMPLETE IN THE AREA
- 8. CONTRACTOR SHALL RETAIN TOPSOIL FROM CLEANING AND RE-SHAPING DITCHES. THIS MATERIAL SHALL BE USED TO DEVELOP A SMOOTH TRANSITION BETWEEN NEW HMAC EDGE AT ROAD AND THE DITCH FRONT SLOPE.



ENGINEER SHALL BE NOTIFIED IN ADVANCE BEFORE MAKING ANY

ADJUSTMENTS IN THE FIELD, AND IN NO INSTANCE SHALL THE TOP

RETAINING WALL CAP SHALL BE 4"X4"X 1_4 " ANGLE WELDED TO THE

CORNERS SHALL BE 4"X4"X $\frac{1}{4}$ " ANGLE WELDED TO THE WALL

CUT-OUTS AND CUT EDGES SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780

CAPS AND CORNERS SHALL BE HOT-DIPPED GALVANIZED STEEL

SHEET PILING SHALL CONFORM TO REQUIREMENTS OF ASTM A857

(BASE BID). PLATES AND SHAPES SHALL BEET REQUIREMENTS OF ASTM A36. GALVANIZED COATING SHALL BE PER ASTM A123

TREE TRIMMING

AND BRUSH REMOVAL (AS REQUIRED)

VARIES

EXISTING PAVEMENT TO BE PULVERIZED AND MIXED INTO THE EXISTING BASE

- CREATE A SMOOTH TRANSITION BETWEEN EDGE OF ROAD AND DITCH

OF RETAINING WALL BE LESS THAN 302.00

FACE OF THE PLATE.

MATCH EXISTING SLOPE

ROW (WIDTH VARIES)

20' +/-

PROPOSED TYPICAL ROADWAY SECTION SCALE = NTS

2" (TY D) HMAC PER TXDOT ITEM 340 -

PRIME PER TXDOT ITEM 310

(RATE OF APPLICATION TO BE ESTABLISHED IN THE FIELD)

* ANDREW P. WRIGHT 135146



STREET **IMPROVEMENTS** CDBG-DR PROJEC 20-065-065-C184

> PETERS SAN FELIPE SITE

> > **DETAILS**



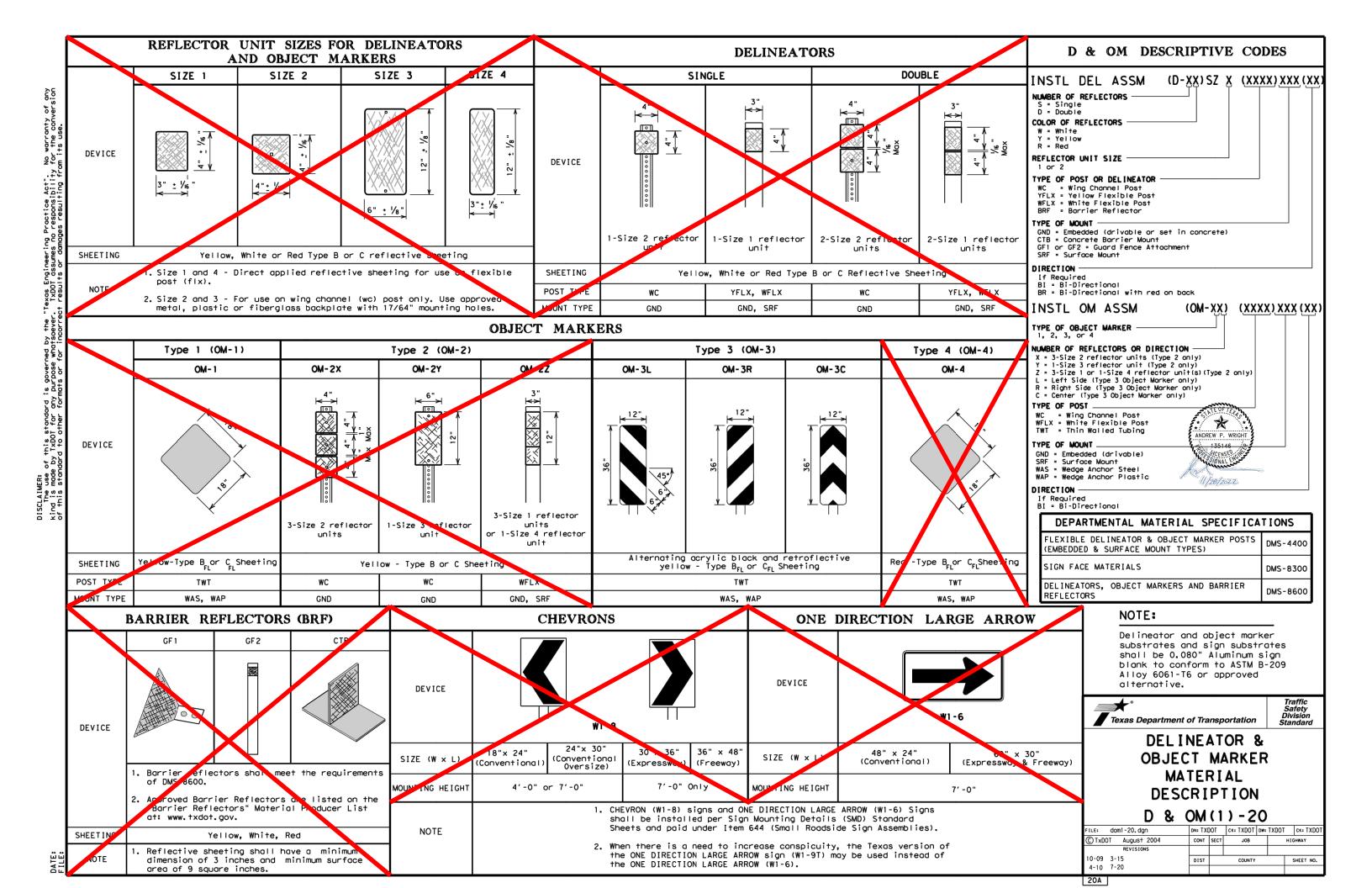


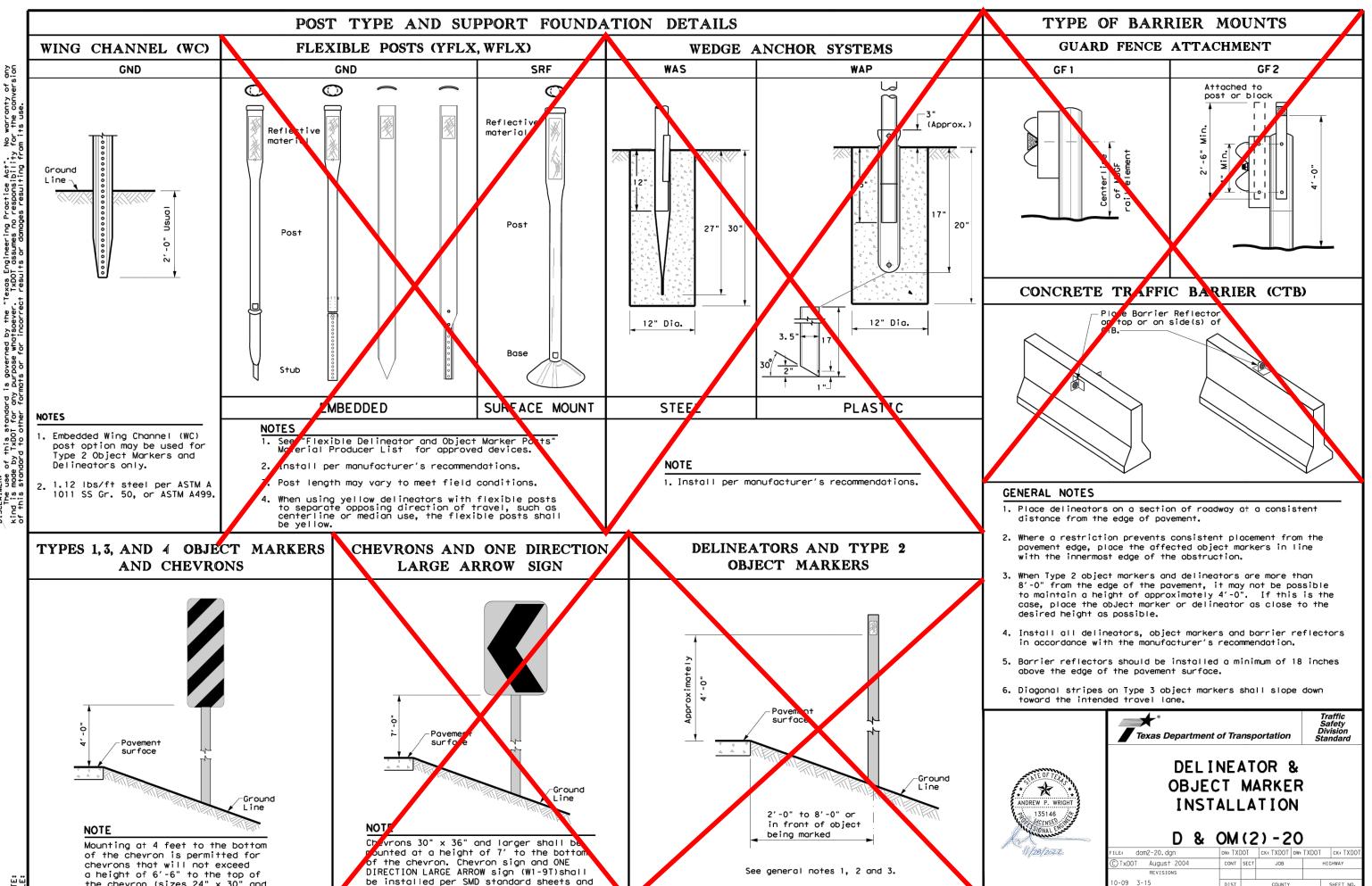
DRAWN BY: A. EATON

REVIEWED BY: A WRIGHT

PROJECT NO: 303600.00

SHEET NO:



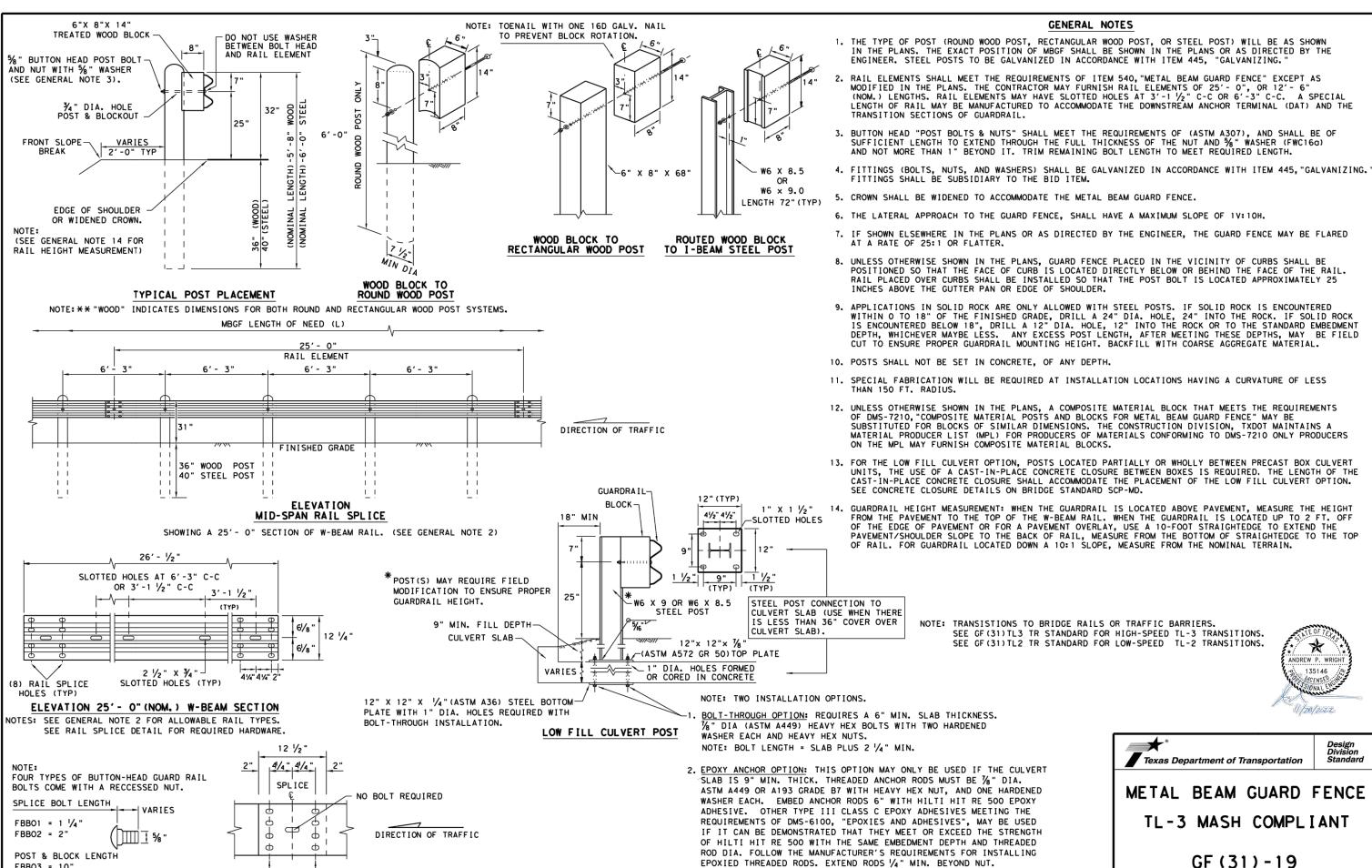


10-09 3-15

4-10 7-20

the chevron (sizes 24" x 30" and

paid under item 644.



NOTE: CULVERTS OF 25 FT. OR LESS, SEE GF (31) LS STANDARD FOR "LONG SPAN" OPTION.

DN:TXDOT CK: KM DW: VP CK:CGL/A

HIGHWAY

SHEET NO.

JOB

COUNTY

CONT SECT

DIST

ILE: gf3119.dan

TXDOT: NOVEMBER 2019

REVISIONS

%" X 1 1/4" BUTTON HEAD SPLICE

BOLTS WITH RECCESSED NUTS.

MID-SPAN

RAIL SPLICE DETAIL

NOTE: GF(31), MID-SPAN RAIL SPLICES ARE

REQUIRED WITH 6'-3" POST SPACINGS.

FBB03 = 10"

FBB04 = 18"

BUTTON HEAD BOLT

SPLICE & POST BOLT DETAILS.

NOTE: SEE GENERAL NOTE 3 FOR

WITH CAPTIVE WASHER

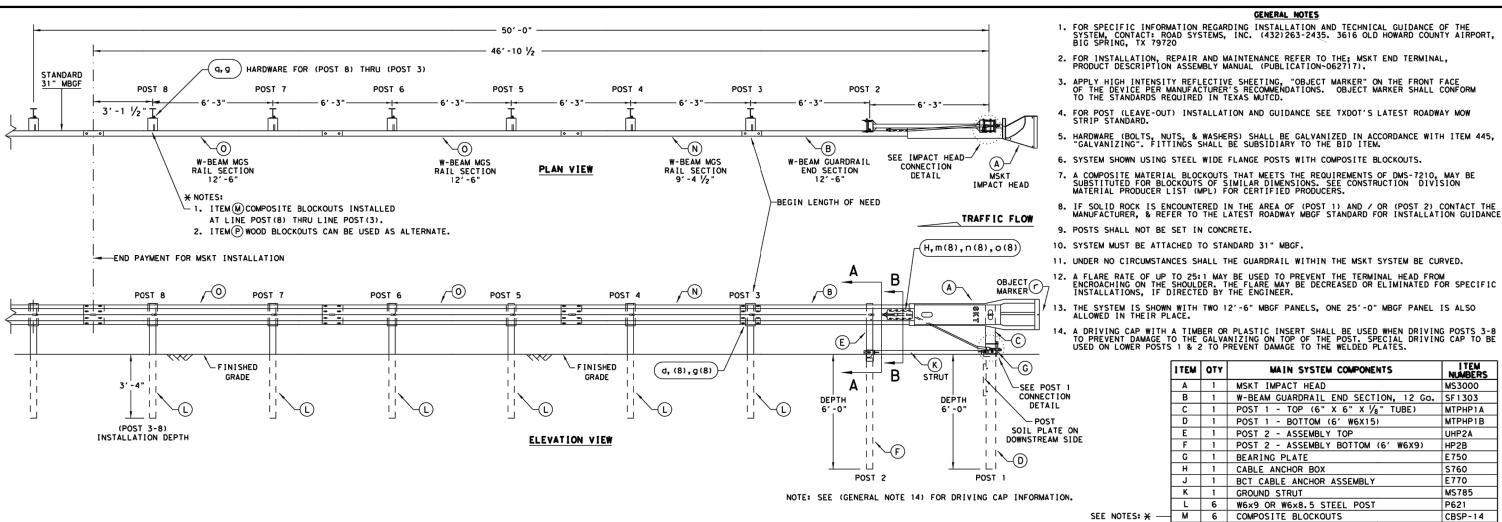
1/2" STRUCTURAL NUT

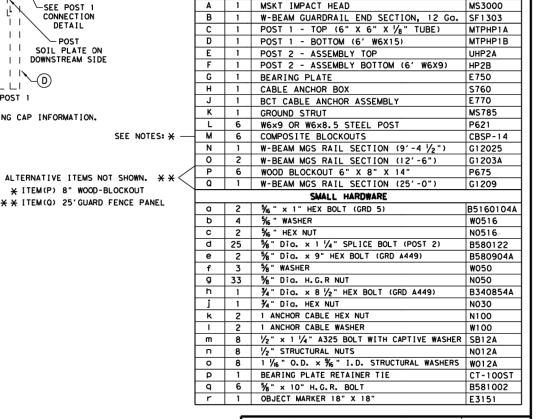
(0,n)

1/2" STRUCTURAL NUT

WITH STRUCTURAL WASHER

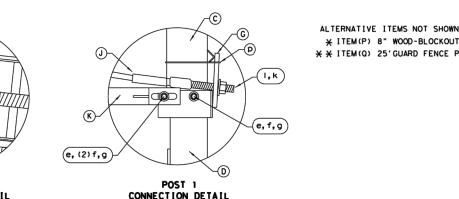
WITH STRUCTURAL WASHER (h, j)





MAIN SYSTEM COMPONENTS

GENERAL NOTES



(e, (2)f,g IMPACT HEAD

50' APPROACH GRADING APPROX 5'-10"_ EDGE OF PAVEMENT RAIL OFFSET (1V: 10H OR FLATTER) NOTE: ADJUST WIDTH ACCORDINGLY WHEN OFFSET IS USED. (OFFSET "OPTION" SHOWN) (25:1 MAX SEE PRODUCT ASSEMBLY MANUAL FLARE RATE FOR ADDITIONAL GUIDANCE.

TRAFFIC FLOW



SINGLE GUARDRAIL TERMINAL MSKT-MASH-TL-3

ILE: sqt12s3118, dqn DN:TxDOT CK:KM DW:VP TxDOT: APRIL 2018 JOB DIST COUNTY SHEET NO.

APPROACH GRADING AT GUARDRAIL END TREATMENTS

NOTE: THIS STANDARD IS A BASIC REPRESENTATION OF THE MSKT END TERMINAL, IT IS NOT INTENDED TO REPLACE THE PRODUCT DESCRIPTION ASSEMBLY MANUAL.

DATE: FILE:

NOTE: TXDOT GENERIC APPROACH GRADING LAYOUT USED FOR ALL TANGENT TYPE END TREATMENTS.

WITH CAPTIVE WASHER POST 2 SECTION A-A CONNECTION DETAIL CONNECTION DETAIL SECTION B-B ANCHOR BRACKET

a, c, b(2)

V-FINISHED

GRADE

ITEM OTY

Texas Department of Transportation

ITEM NUMBERS

SGT (12S) 31-18