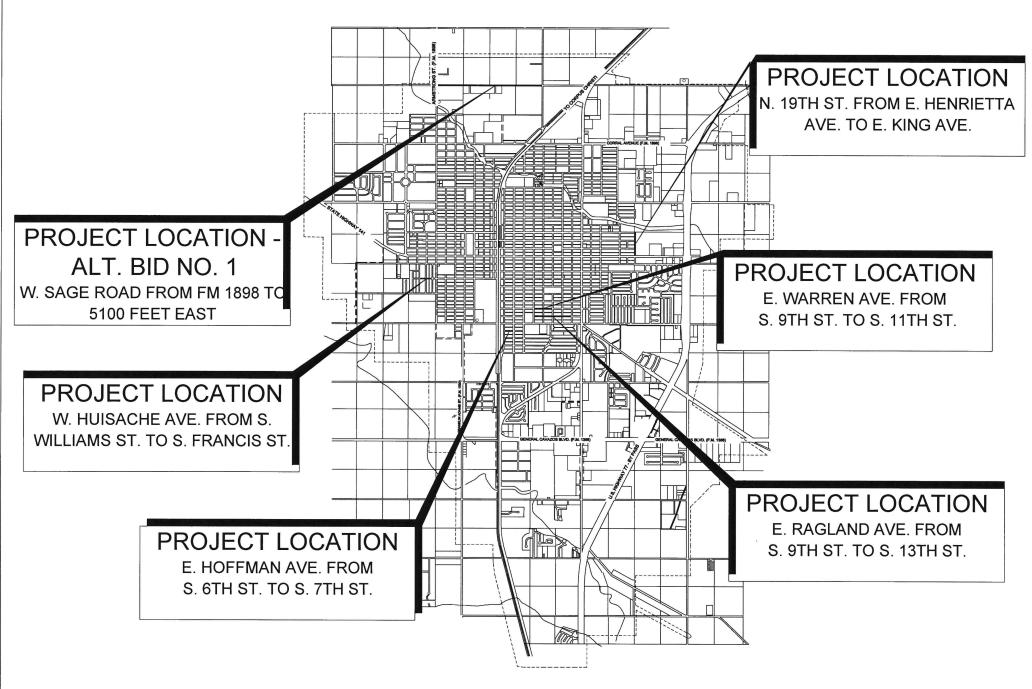
CITY OF KINGSVILLE 2021 CITY-WIDE MISCELLANEOUS CONCRETE AND DRAINAGE IMPROVEMENTS



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ALT. BID 1 - SAGE ROAD DRAINAGE TYPICAL SECTIONS

SHEET INDEX

MAYOR SAM FUGATE

CITY MANAGER MARK MCLAUGHLIN CITY COMMISSIONERS
HECTOR M. HINOJOSA
NORMA NELDA ALVAREZ
ANN MARIE TORRES
EDNA LOPEZ



LOCATION MAP

NOT TO SCALE

JULY 2021

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SHEET

2021

CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS

COVER SHEET

Kingʻsyille

GENERAL CONSTRUCTION NOTES:

- ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH CITY OF KINGSVILLE CODES.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO
- CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO BE IN ACCORDANCE WITH SPECIFICATIONS
- 5. CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED, AND AS DIRECTED BY CITY INSPECTOR
- 6. CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS. SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.
- CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR AND AT CONTRACTOR'S EXPENSE. BASE LINES ARE STAKED AS SHOWN ON PLANS. ALL DIMENSIONS ARE TO BACK OF CURBS LINIESS SHOWN OTHERWISE
- MATERIAL TESTING SHALL BE PROVIDED BY THE CITY OF KINGSVILLE. RE-TEST DUE TO FAILURES TO BE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE CITY ENGINEERING OFFICE PRIOR TO CONSTRUCTION. CONTRACTOR MAY CLOSE STREETS TO THRU TRAFFIC IN 1000' INCREMENTS AS LONG AS ACCESS IS MAINTAINED TO ALL RESIDENCES, BUSINESSES. & ADJOINING STREETS. TRAFFIC CONTROL PLAN WILL BE IN ACCORDANCE WITH TXDOT'S B & C SHEETS 18 THROUGH 24 AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND AT CONTRACTOR'S EXPENSE.
- 11. ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE OR EXISTING STRUCTURES SHALL BE
- REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.

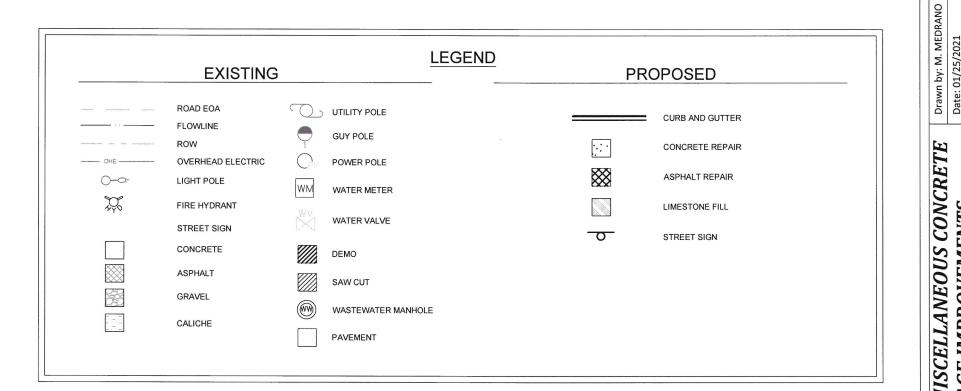
 12. THESE PLANS. PREPARED BY THE CITY OF KINGSVILLE ENGINEERING DEPARTMENT DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF CITY OF KINGSVILLE'S REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION.'
- 13. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK, NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY & ALL EXCAVATIONS. COORDINATION OF ALL RELOCATION OF UTILITY POLES, ECT. TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

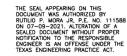
 14. CONTRACTOR TO COORDINATE WITH THE CITY OF KINGSVILLE ON WORK SCHEDULES,
- TESTING, GENERAL INSPECTION, AND EXISTING LINES.
- 15. CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES. ALL DAMAGE TO BE REPAIRED AT CONTRACTOR'S EXPENSE. ALL COSTS FOR INTERRUPTION OF GAS. ELECTRICAL. COMMUNICATIONS AND/OR WATER SERVICE DUE TO CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR.
- 16. INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CITY OF KINGSVILLE PERSONNEL WILL BE AVAILABLE FOR ASSISTANCE AND OPERATION OF VALVES AS REQUIRED. CONTRACTOR TO COORDINATE WITH OTHER UTILITY COMPANIES. INCLUDING AEP ON ELECTRICAL UTILITIES, CENTERPOINT ENERGY ON GAS UTILITIES AND AT&T ON TELEPHONE LITILITIES
- 17. ALL SPOIL MATERIAL AND DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR. FURNISHING AND TRANSPORTATION OF ALL OFFSITE MATERIAL TO BE AT CONTRACTOR'S EXPENSE. SOIL SHALL BE PROPERTY OF THE CITY AND WILL BE TRANSPORTED TO THE CITY LANDFILL BY THE CONTRACTOR. (NO SEPARATE PAY)
- 18. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO INSURE NO AREAS OF PONDING ARE PRESENT.
- 19. CONTRACTOR TO INSURE SAME DAY ACCESS TO SCHOOL, ALL RESIDENCES AND
- BUSINESSES ADJACENT TO CONSTRUCTION.
 20. DEMOLITION, REMOVAL & DISPOSAL OF ALL EXCESS CONCRETE. CURBS, RUBBLE, ETC. TO BE AT CONTRACTOR'S EXPENSE.
- 21. CONCRETE NOTES:
 - ALL CONCRETE WORK TO BE FORMED. UNLESS OTHERWISE APPROVED
 - ALL CONCRETE TO BE 3000 PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 - ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60. UNLESS OTHERWISE
 - d. ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.
- 22. CONTRACTOR TO VERIFY THAT ALL CONCRETE SURFACES MEET THE FOLLOWING SLOPE CRITERIA PRIOR TO PLACEMENT OF CONCRETE.
 - a. RAMP SLOPE 12:1 (8.33%) (MAX.)
 - RUNNING SLOPE 20:1 (5%) (MAX.) c. CROSS SLOPE 50:1 (2%) (MAX.)
- (CROSS SLOPE IS SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL. 23. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING SILT FENCE IN AREAS OF DISTURBED SOIL TO PREVENT EROSION FROM ENTERING DRIVEWAYS AND STORM DRAINAGE SYSTEMS.



ABBREVIATIONS

MAX.	MAXIMUM
MIN.	MINIMUM
O.C.E.W.	ON CENTER EACH WAY
LG.	LONG
TYP.	TYPICAL
DET.	DETAIL
SHT.	SHEET
SW.	SIDEWALK
DW	DRIVEWAY
SF	SQUARE FEET
SY	SQUARE YARD
FL.	FLOWLINE
TC.	TOP OF CURB
BC.	BACK OF CURB
N&S	NORTH AND SOUTH
PROP.	PROPOSED
EX.	EXISTING
EOA	EDGE OF ASPHALT
CONC.	CONCRETE
VPI.	VERTICAL POINT OF INTERSECTION







CITY OF KINGSVILLE ENGINEERING DEPART

400 We Kingsvi Office 3

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Drawn by: M.
Date: 01/25/;
Checked by: F CONCRE *IMPROVEMENTS* **MISCELLANEOUS** NOTES GE

SHEET

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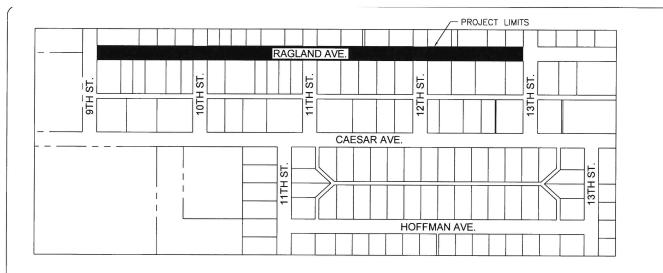
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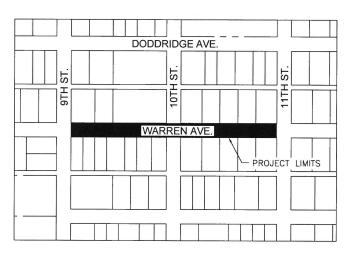
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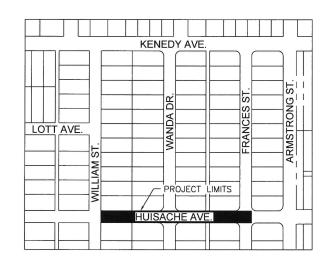
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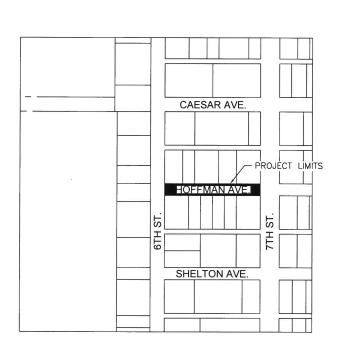
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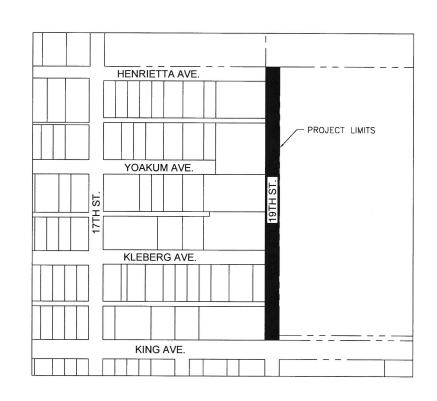


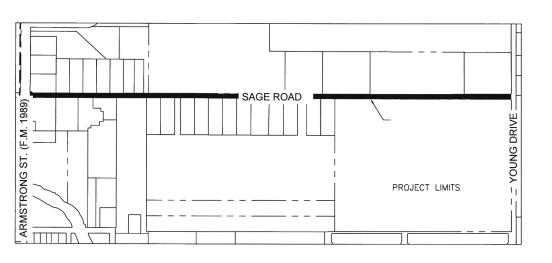
WARREN AVE. BETWEEN 9TH AND 11TH ST. SCALE: 1:200



HUISACHE AVE. BETWEEN WILLIAMS ST. AND FRANCES ST.









ALT. BID 1 - SAGE ROAD BETWEEN N. ARMSTRONG ST. AND YOUNG DRIVE SCALE: 1:500



HOFFMAN AVE. BETWEEN 6TH ST. AND 7TH ST.

SCALE: 1:200



19TH ST. BETWEEN KING AVE. AND HENRIETTA AVE. SCALE: 1:200

PROJECT LIMITS



CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS

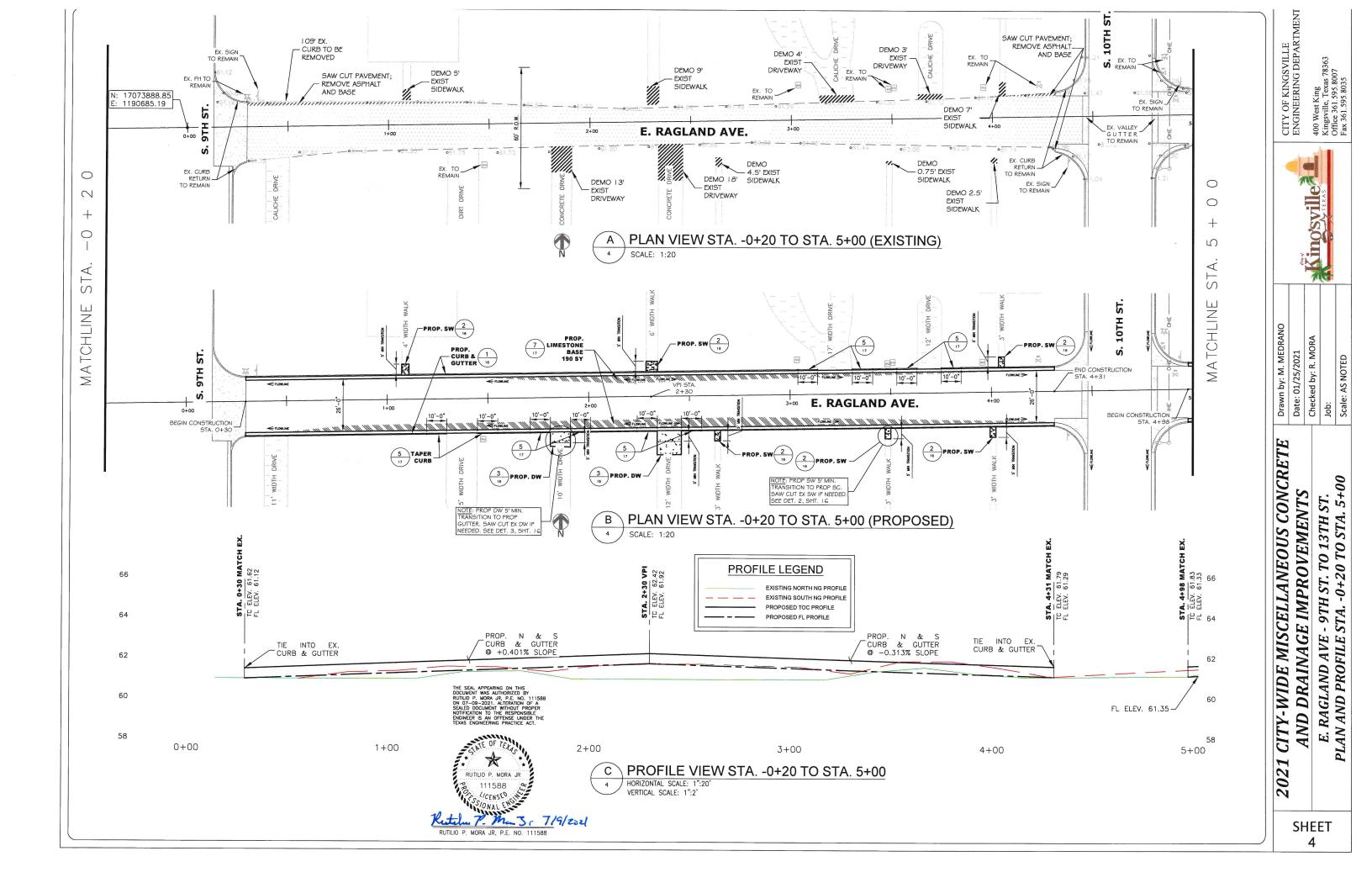
CITY OF KINGSVILLE ENGINEERING DEPARTMENT

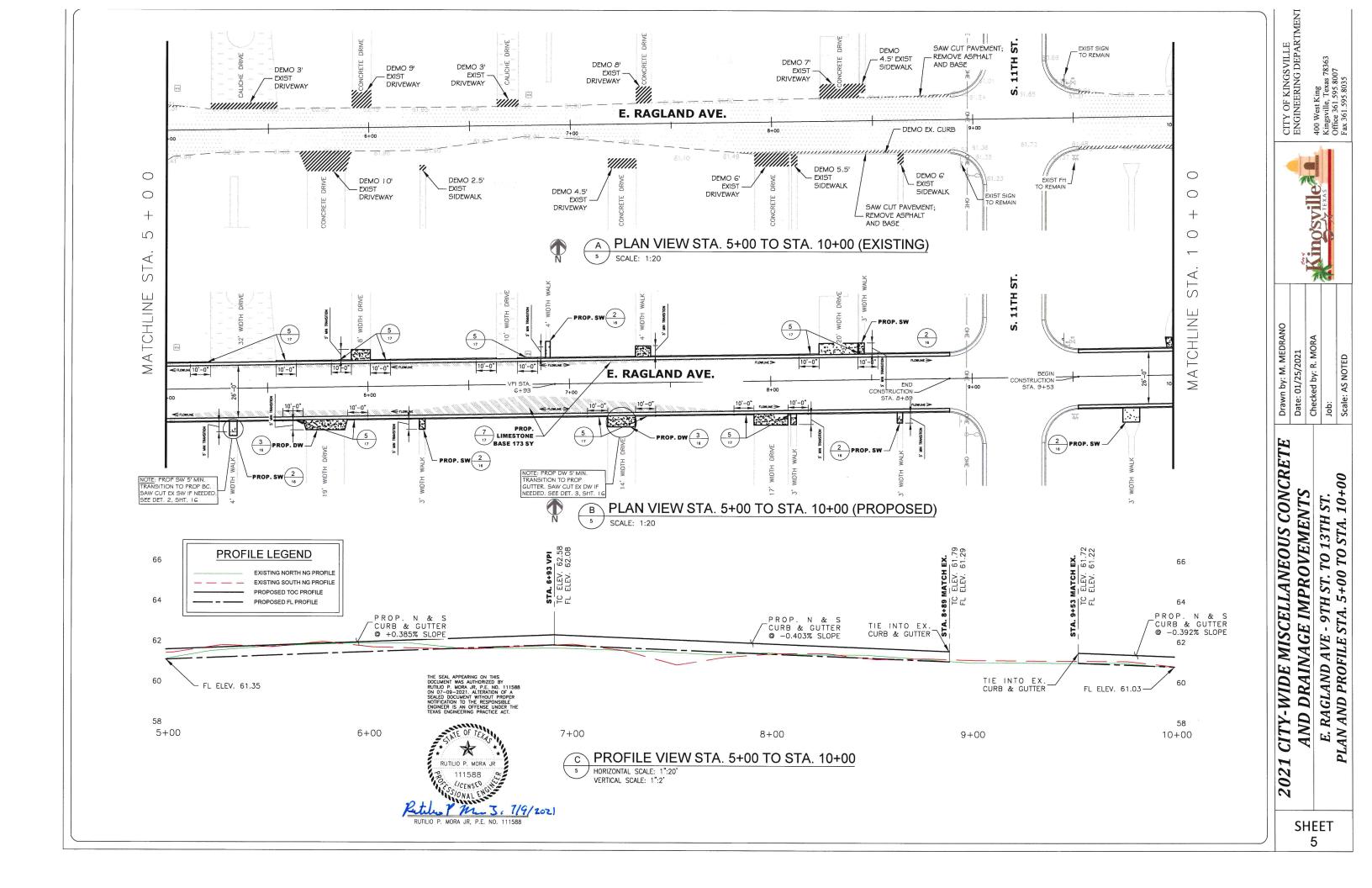
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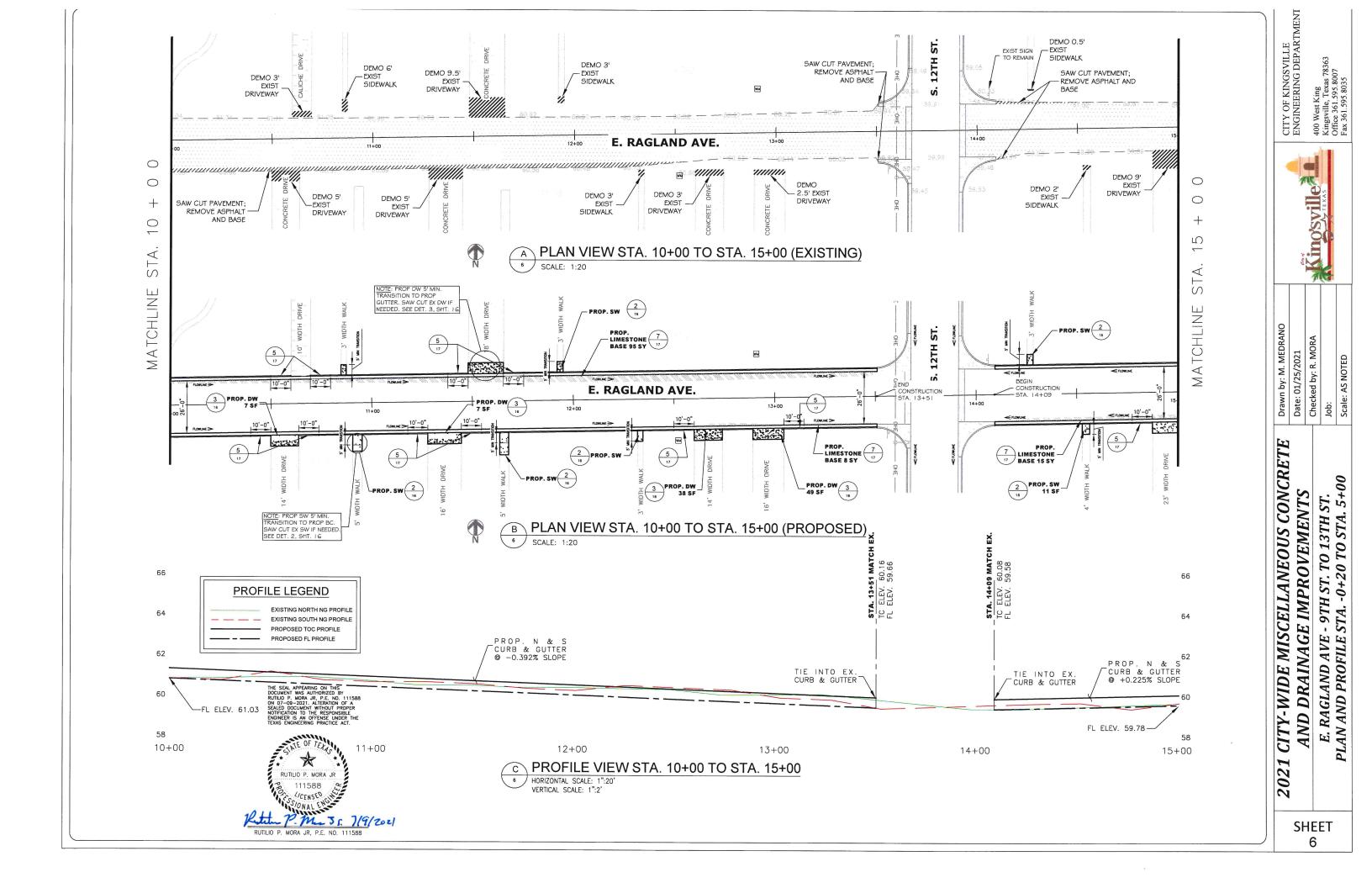
Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA

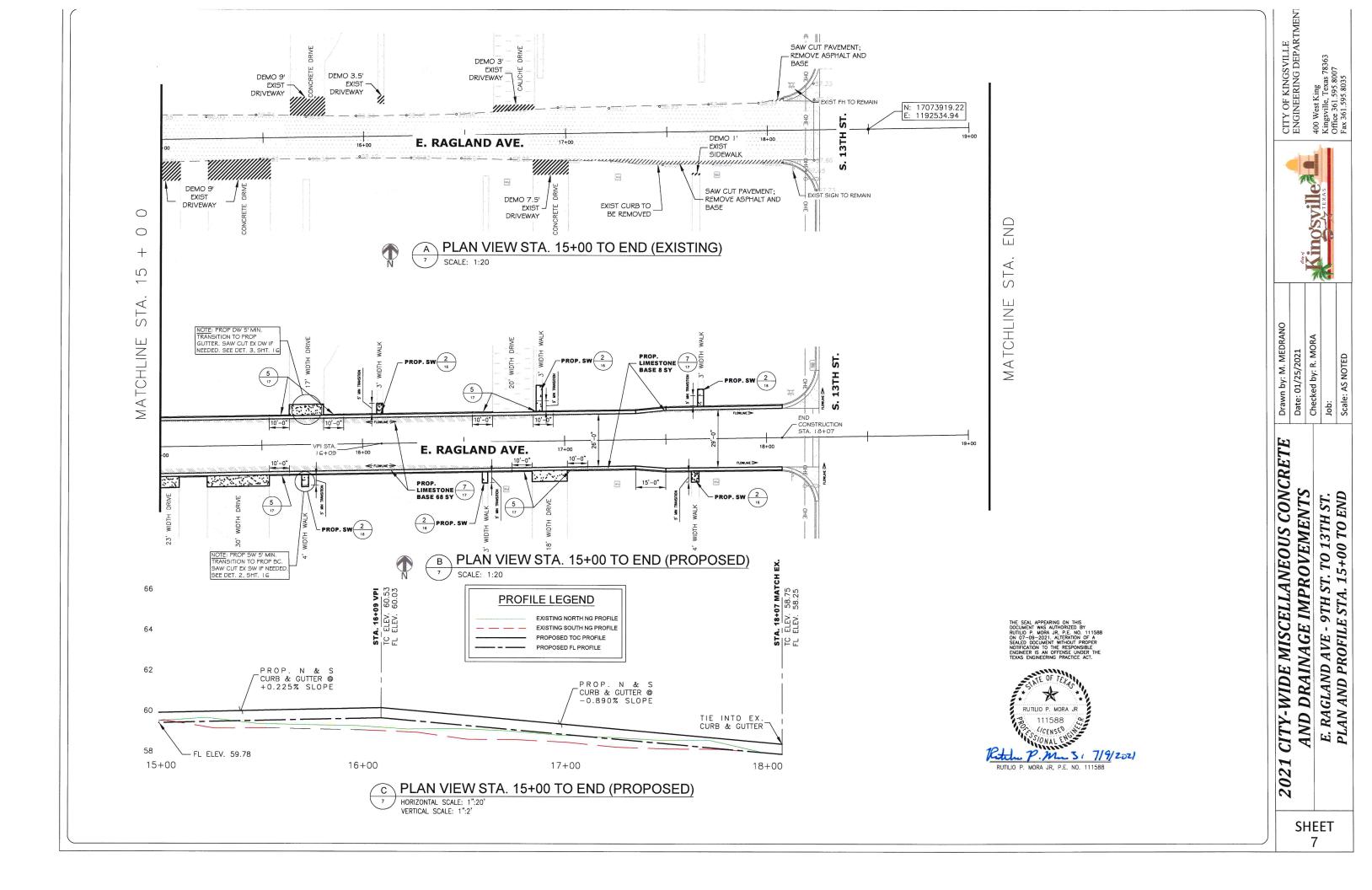
PROJECT LOCATIONS AND LIMITS

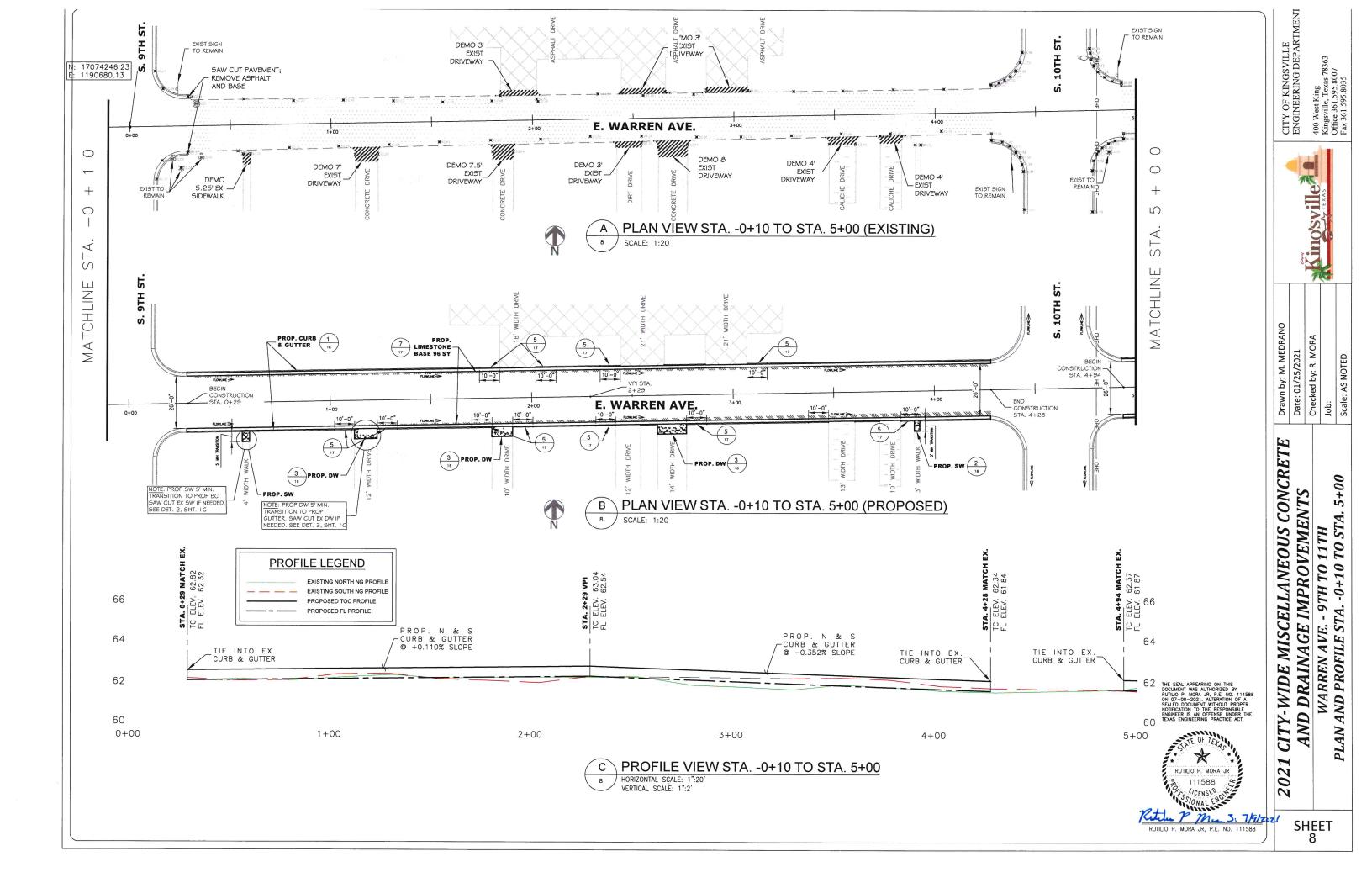
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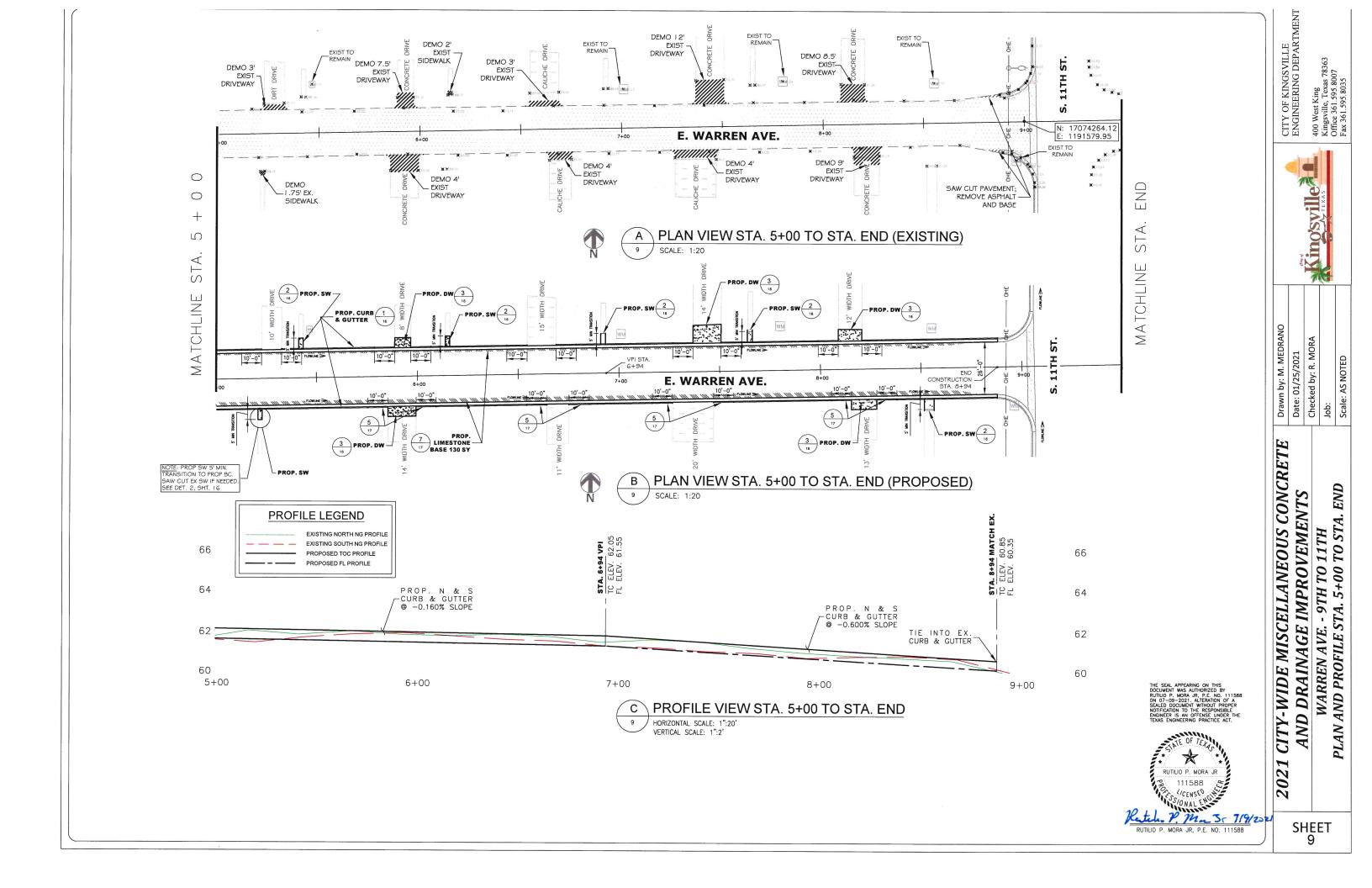


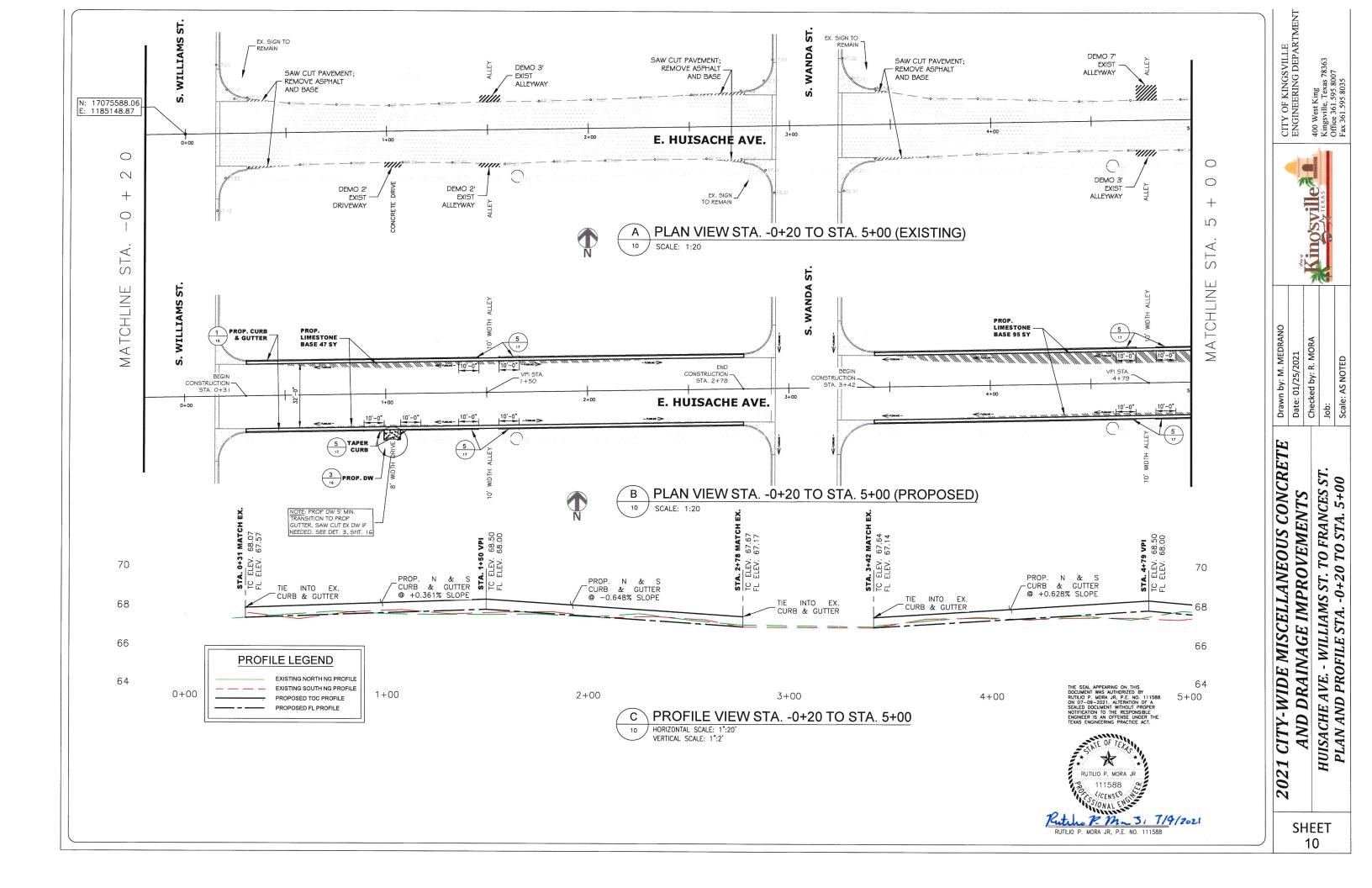


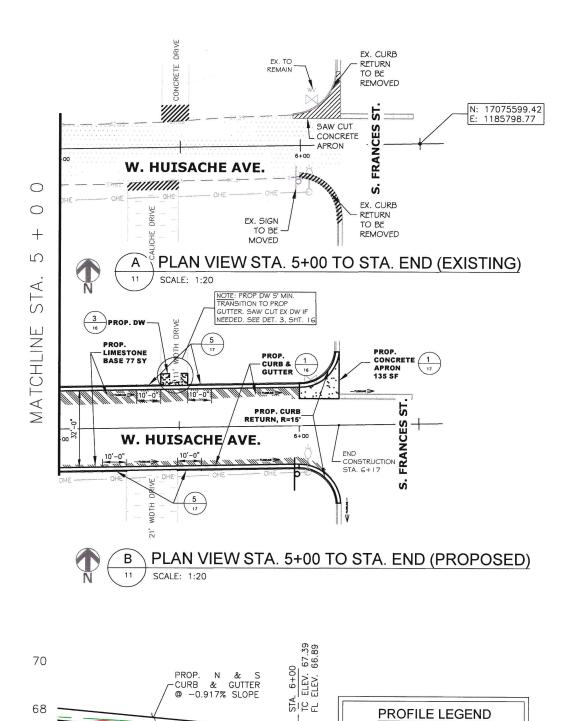












C PROFILE VIEW STA. 5+00 TO STA. END
HORIZONTAL SCALE: 1":20'
VERTICAL SCALE: 1":2'

66

64

— EXISTING SOUTH NG PROFILE

PROPOSED TOC PROFILE
PROPOSED FL PROFILE

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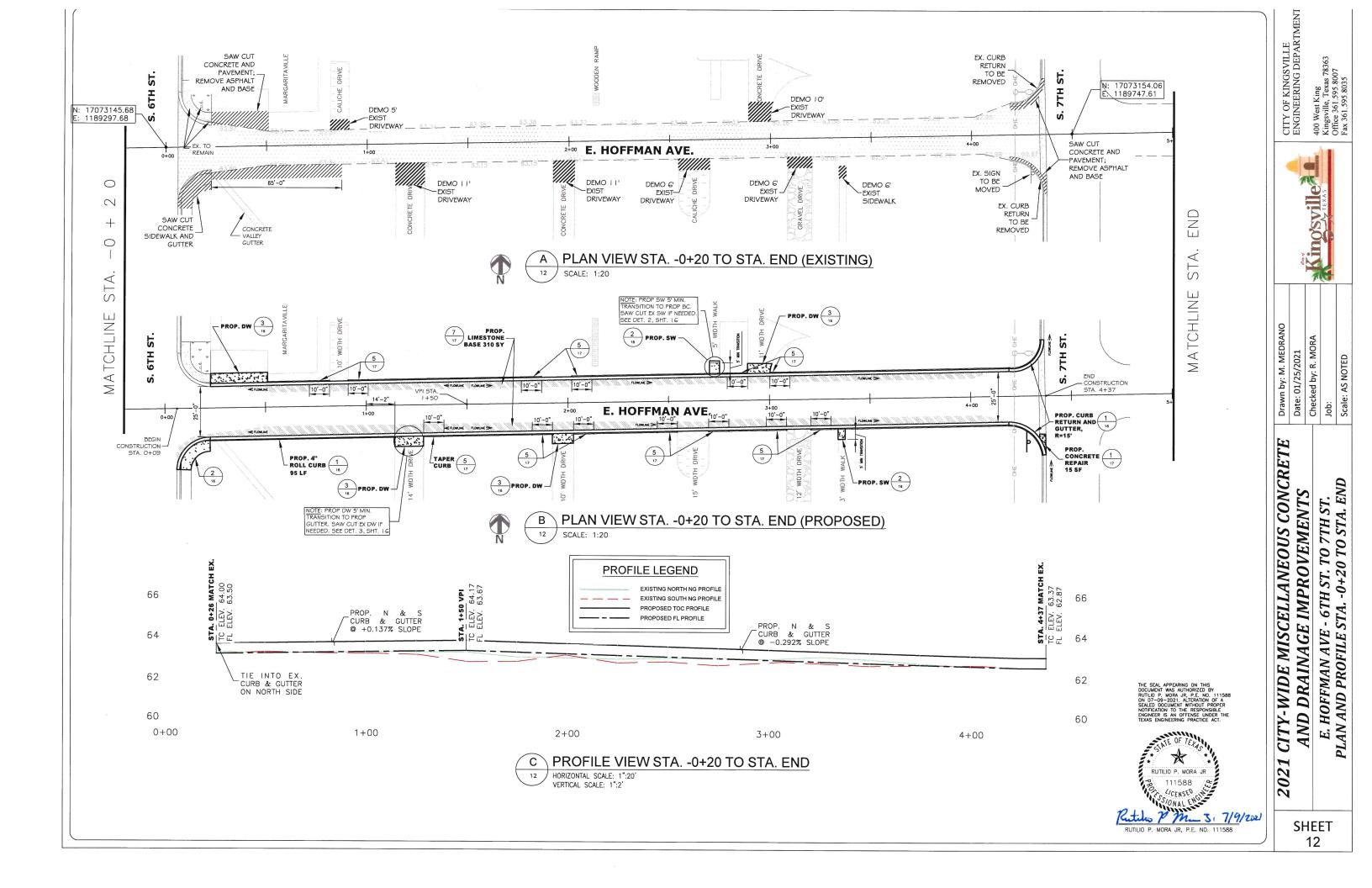
2021 CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS
HUISACHE AVE. - WILLIAMS ST. TO FRANCES ST.
PLAN AND PROFILE STA. 5+00 TO STA. END

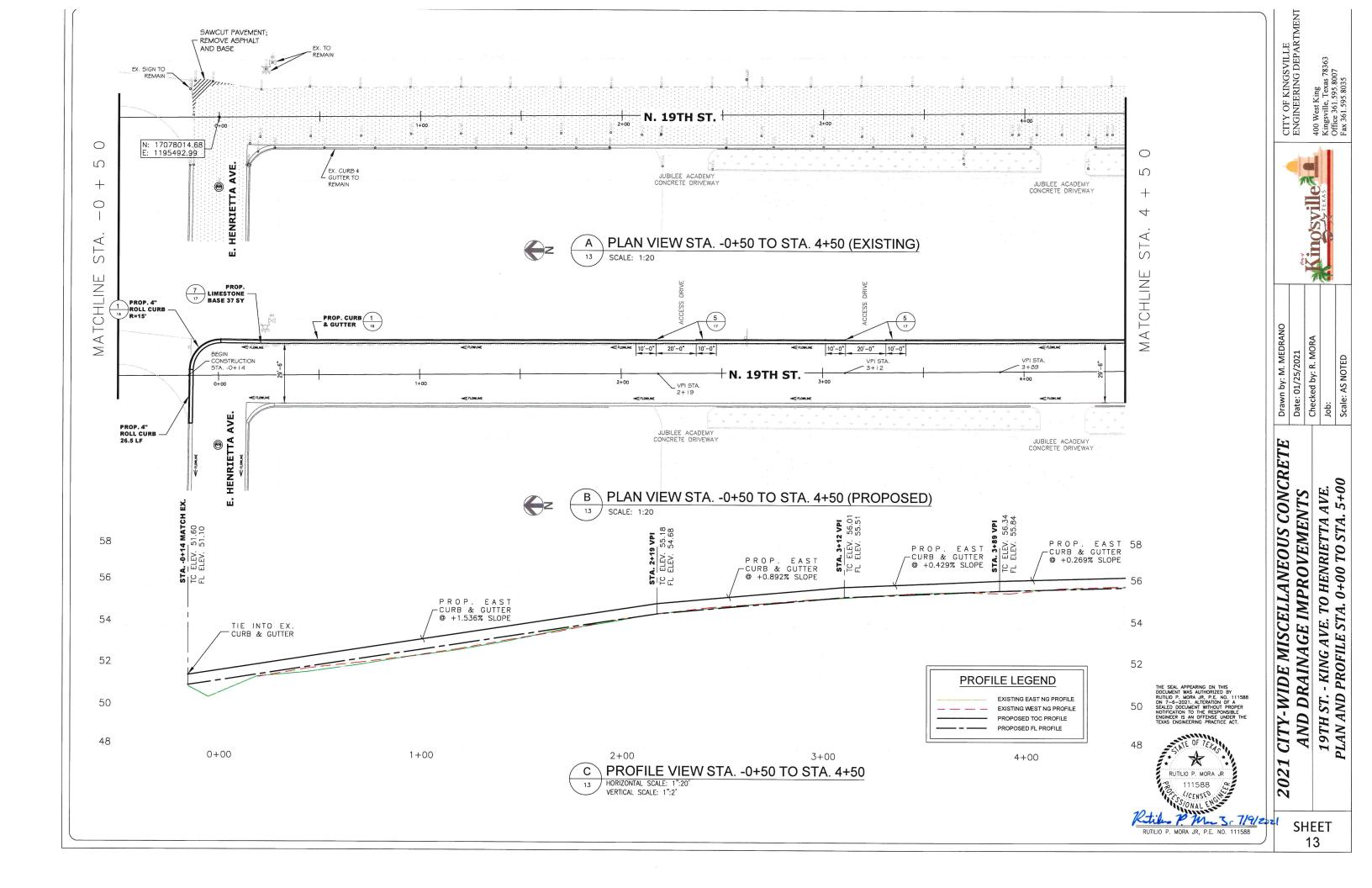
CITY OF KINGSVILLE ENGINEERING DEPARTMENT

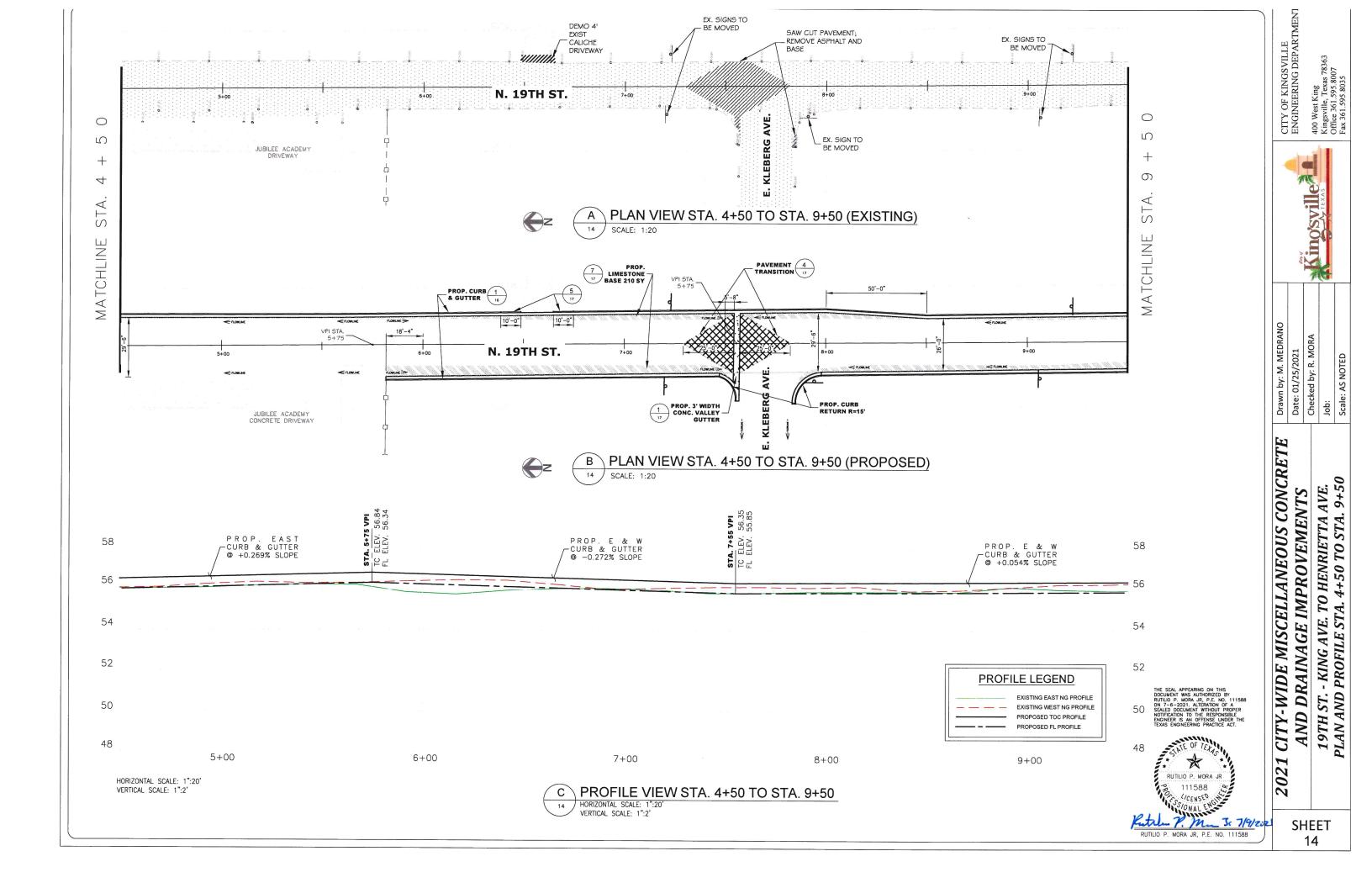
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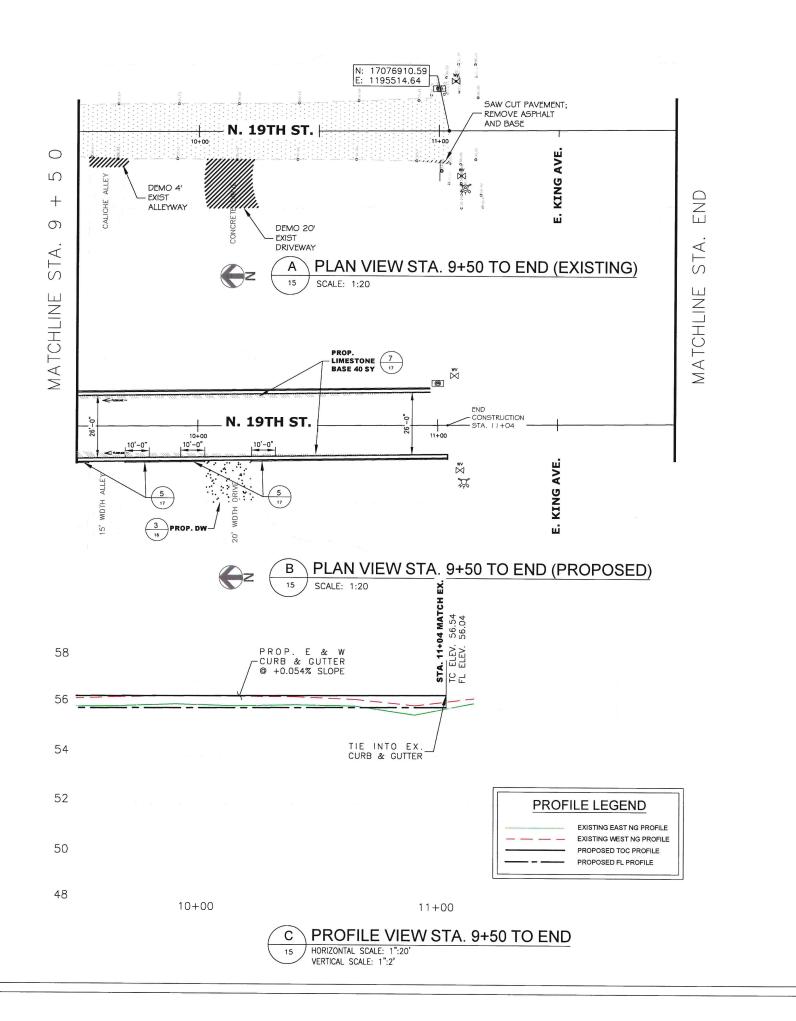
Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA

Job: Scale:









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RUTILLO P. MORA JR.

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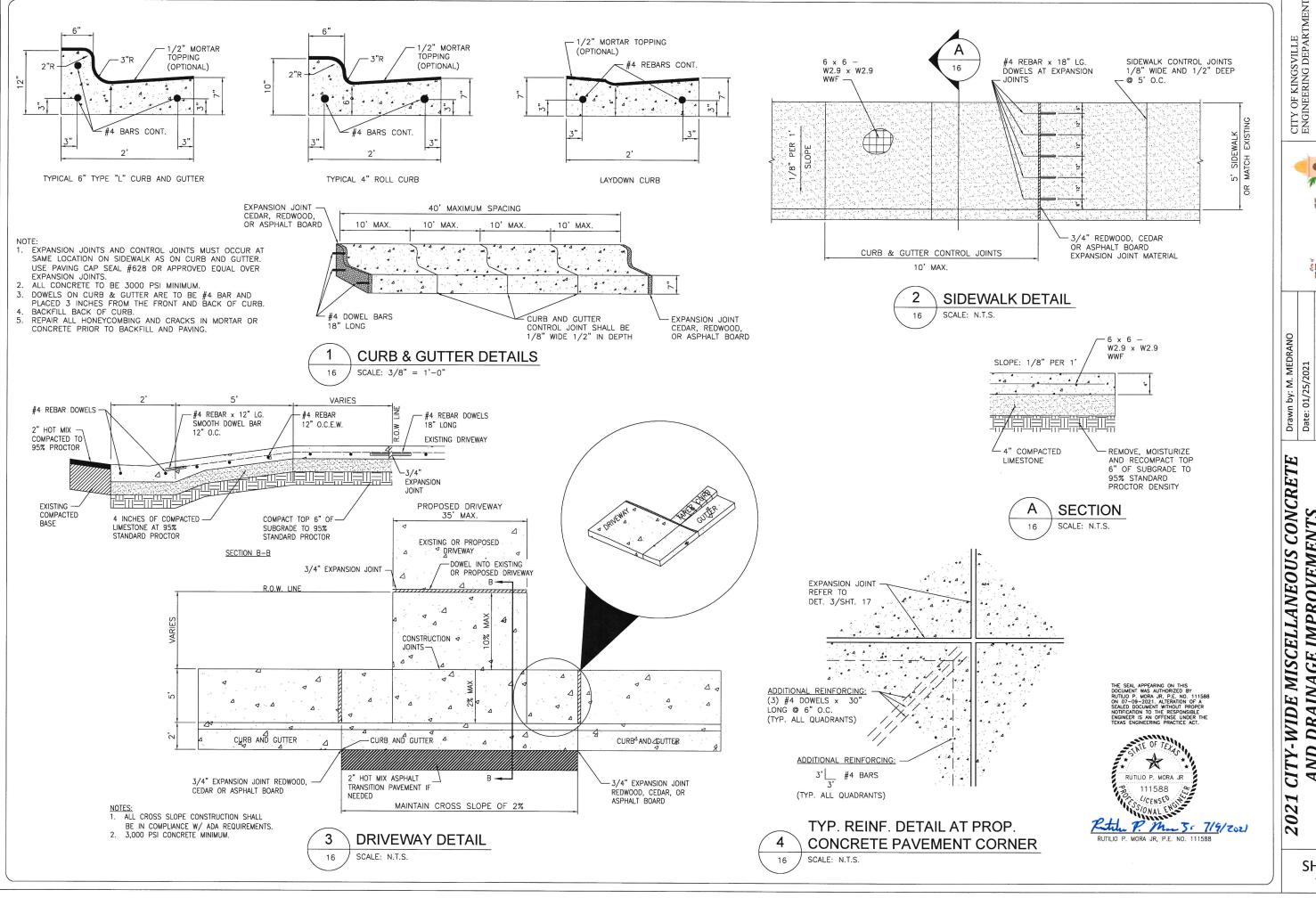
AND DRAINAGE IMPROVEMENTS

19TH ST. - KING AVE. TO HENRIETTA AVE. PLAN AND PROFILE STA. 9+50 TO END

CITY OF KINGSVILLE ENGINEERING DEPARTMENT

King'sville ...

Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA

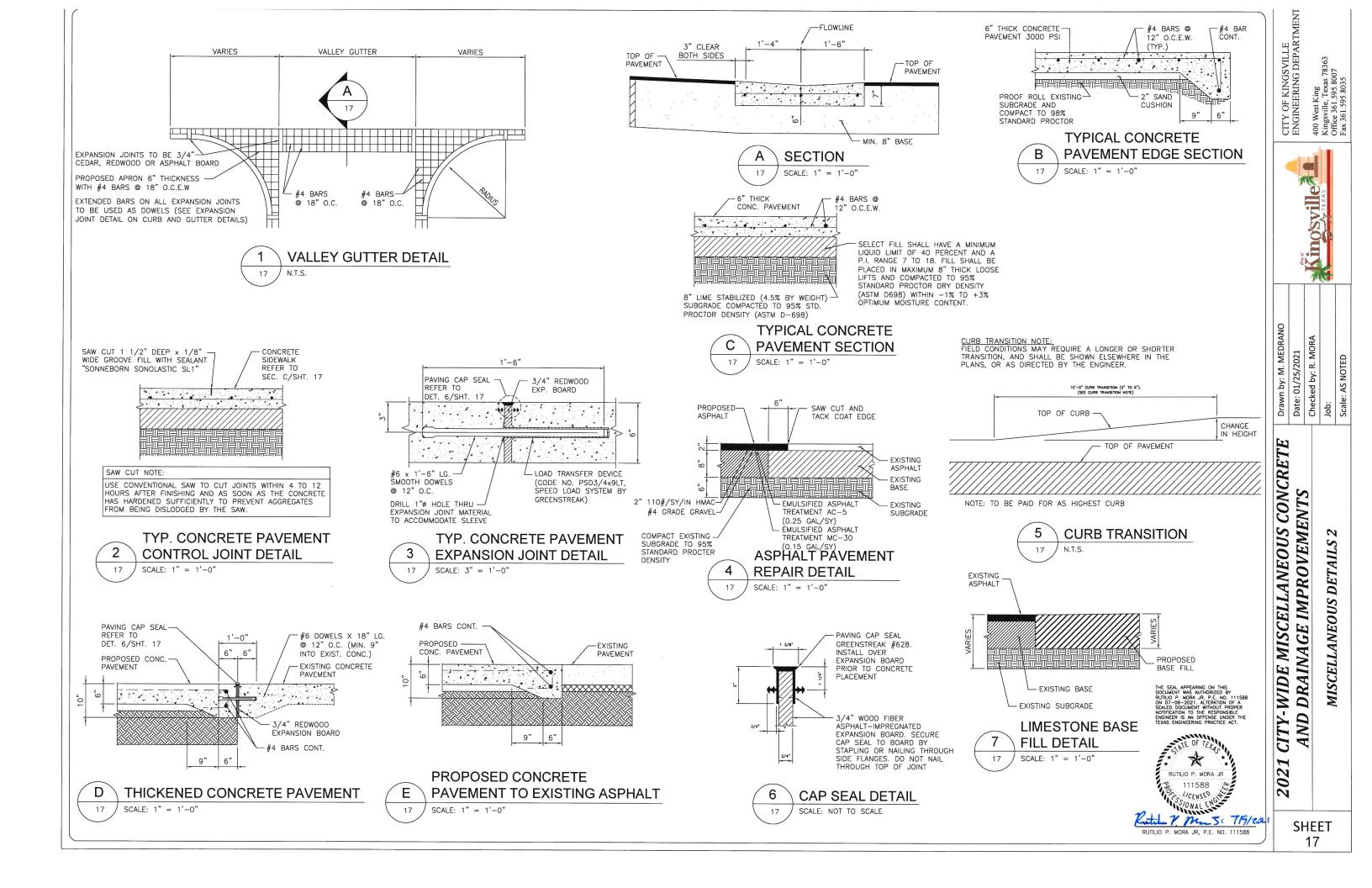


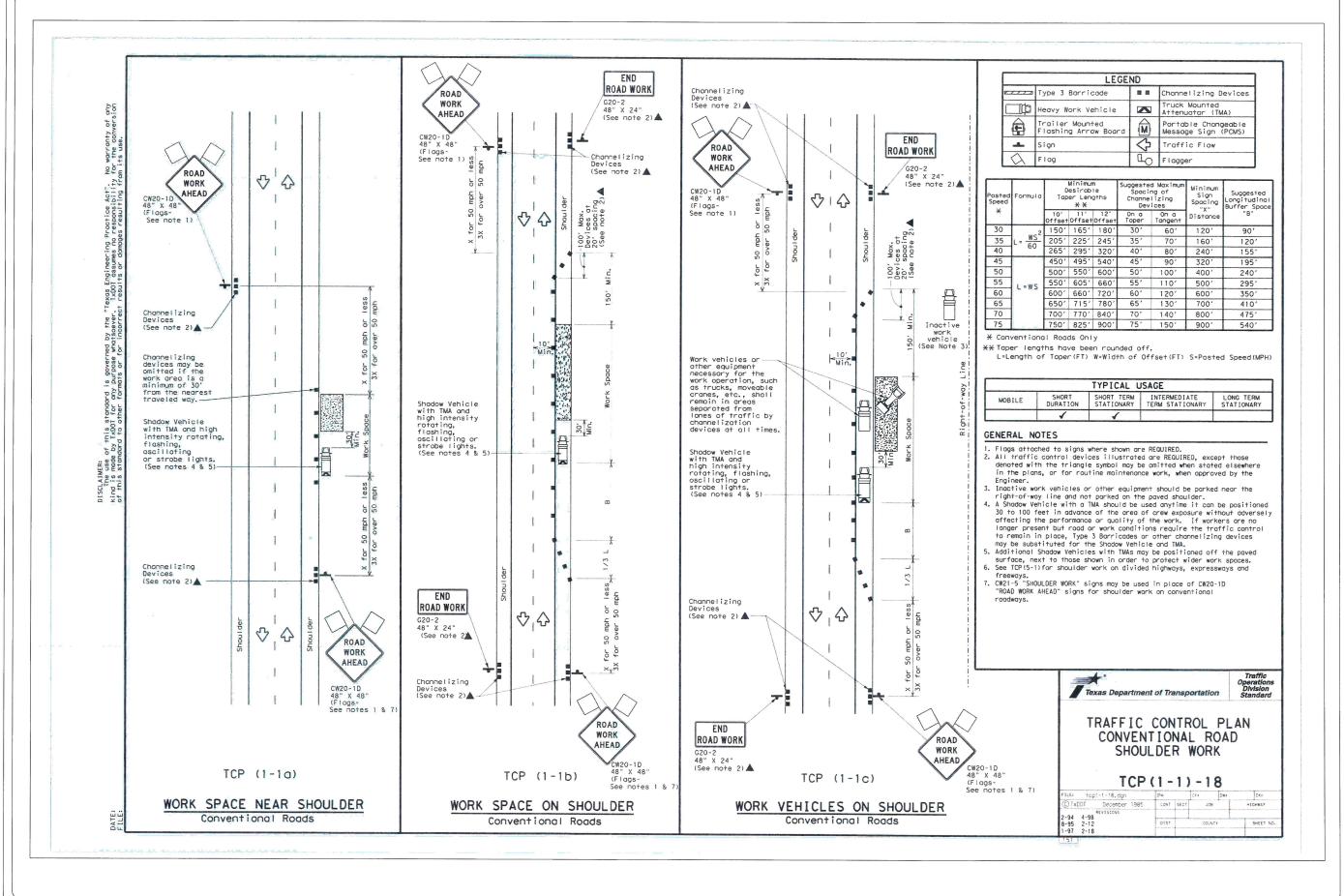
Kingsville

Checked by: R. MORA AS NOTED

MISCELLANEOUS DETAILS

DRAINAGE IMPROVEMENTS AND





CITY OF KINGSVILLE ENGINEERING DEPARTMENT

400 West King Kingsville, Texas 78363 Office 361.595.8007 Fax 361.595.8035



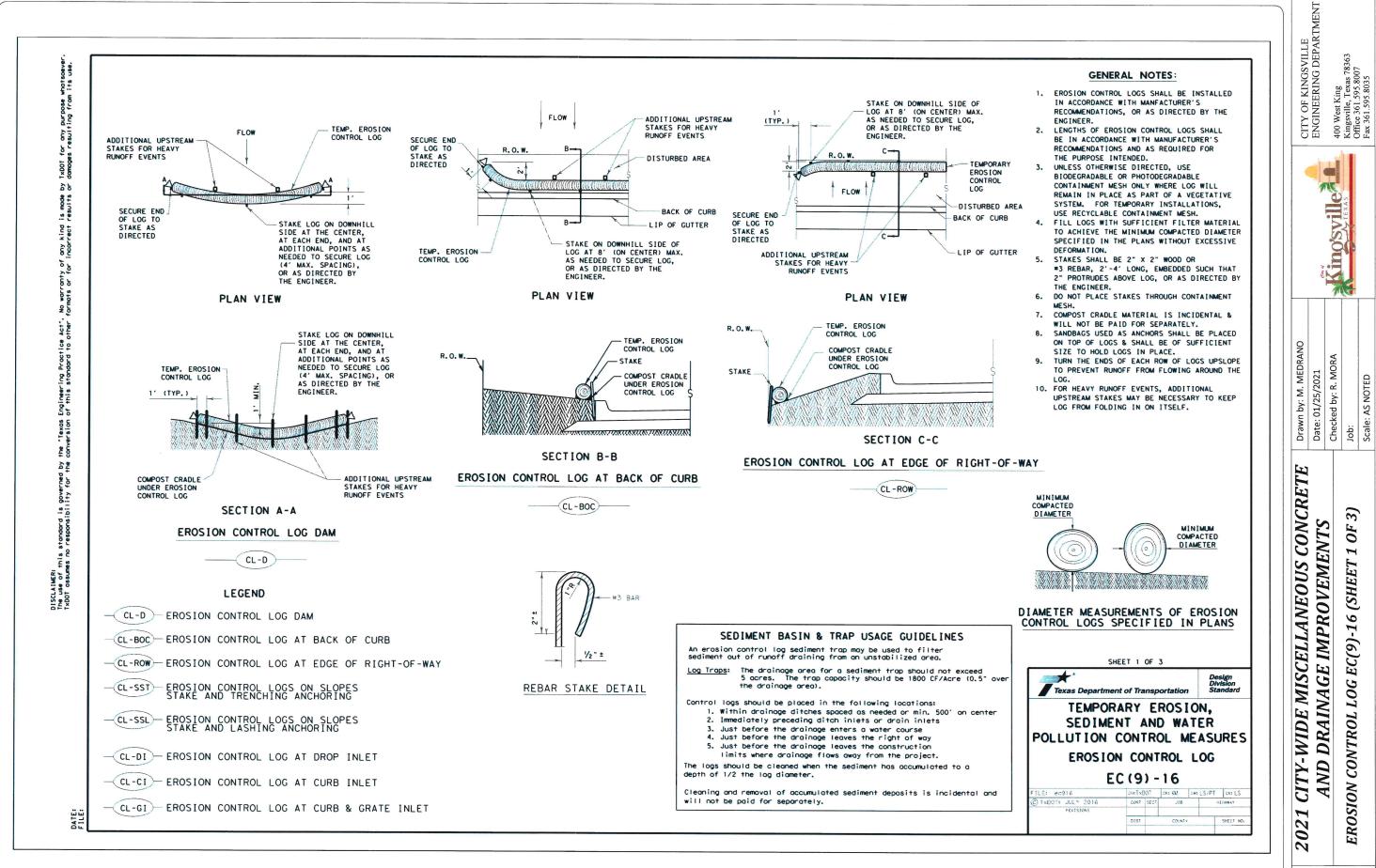
MEDRANO Drawn by: M. MEDRAN Date: 01/25/2021 Checked by: R. MORA Job:

CITY-WIDE MISCELLANEOUS CONCRETE IMPROVEMENTS

TCP(1-1)

DRAINAGE AND

2021

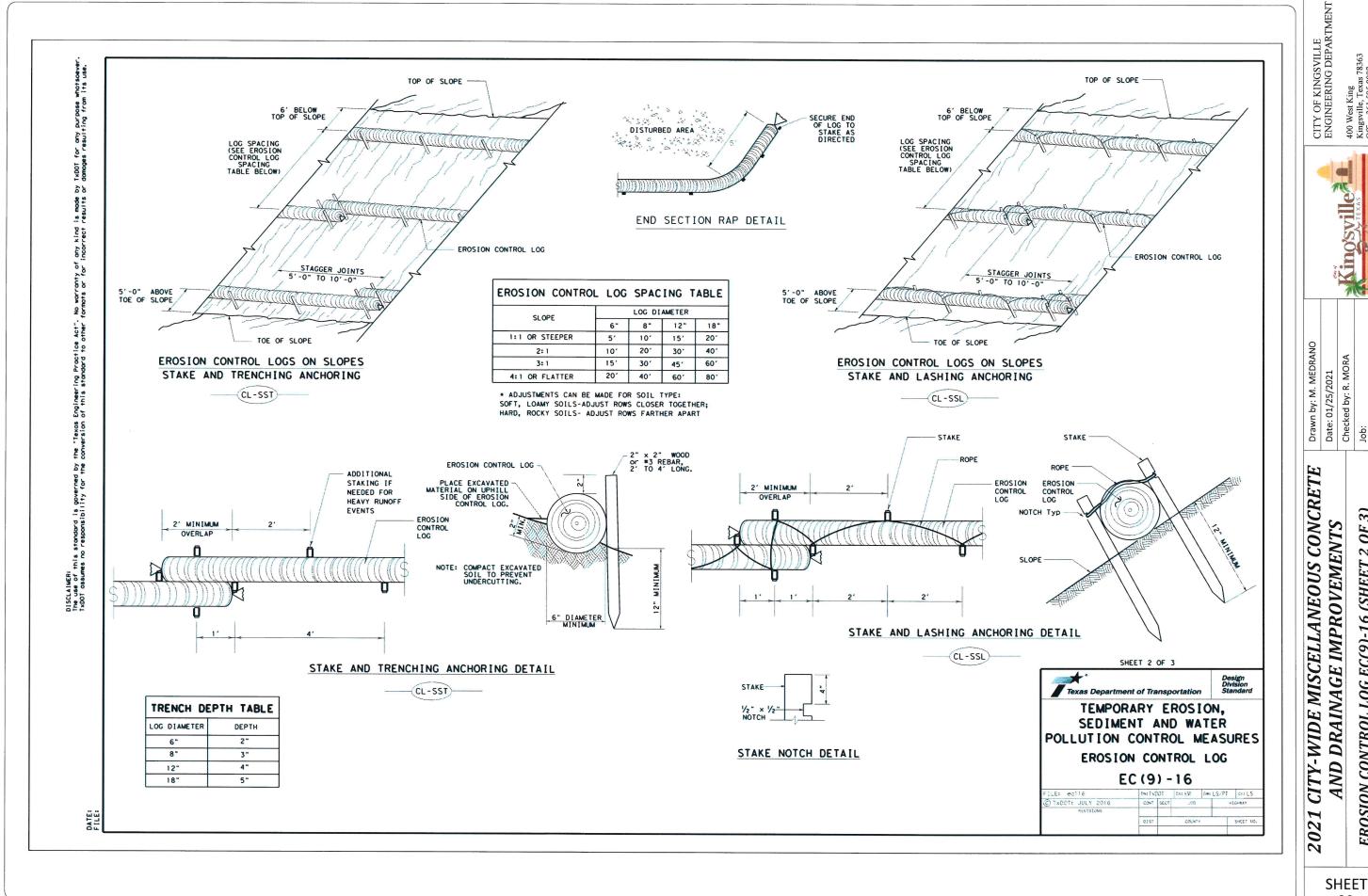


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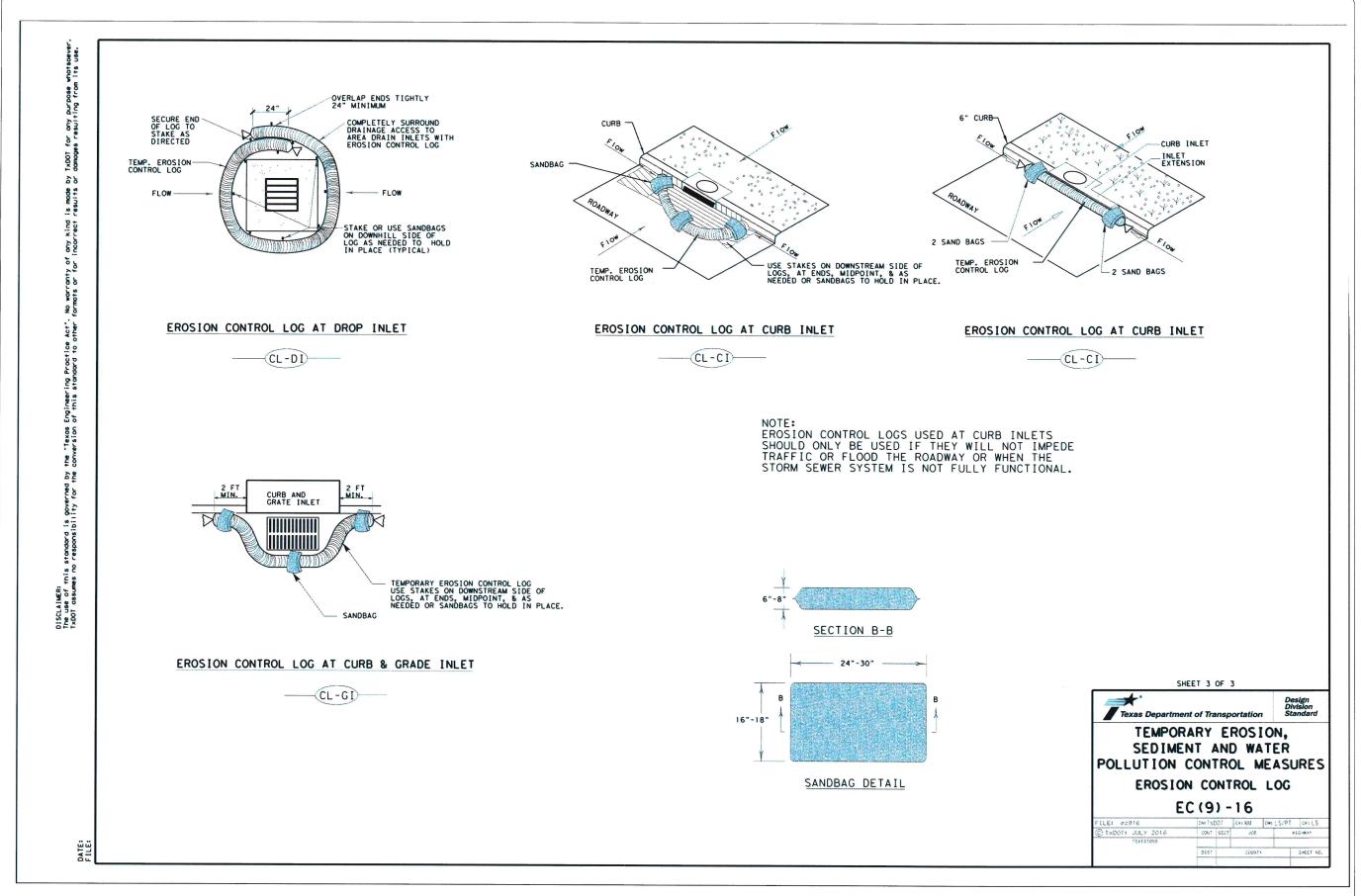
CONTROL LOG EC(9)-16 (SHEET 1

EROSION

19



EROSION CONTROL LOG EC(9)-16 (SHEET 2 OF 3)



21

CITY OF KINGSVILLE ENGINEERING DEPARTMENT

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Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA Job:

CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS EROSION CONTROL LOG EC(9)-16 (SHEET 3 OF 3)

SHEET

2021

AND

202

BC(4)-14

Traffic

GENERAL NOTES FOR WORK ZONE SIGNS

ROAD

WORK

AHEAD

6.0' m

XX MPH

Attachment to wooden supports will be by bolts and nuts

or screws. Use TxDOT's or

manufacturer's recommended procedures for attaching sign

substrates to other types of sign supports

Nails shall NOT

be allowed.

Each sign

shall be attached

directly to the sign

support. Multiple

signs shall not be

joined or spliced by

any means. Wood

supports shall not be

extended or repaired

by splicing or

other means.

7.0' min.

9.0' max.

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.

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

guide the traveling public safely through the work zone.

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 Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.

The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.

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

for identification shall be 1 inch.
The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

<u>DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)</u>

- 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 regard to crashworthiness and duration of work requirements.

 a. Long-term stationary - work that occupies a location more than 3 days.
- Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting 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.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

- SIGN MOUNTING HEIGHT

 1. 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 as shown for supplemental plaques mounted below other signs.
- 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 the ground.
 Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- 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.
 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 furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

- 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 CMZTCD lists each substrate that can be used on the different types and models of sign supports.
 "Mesh" type materials are NOT on approved sign substrate, regardless of the tightness of the weave.
- 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" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

- All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1). White sheeting, the requirements of DMS-8300 Type A, shall be used for signs with a white background. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

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 first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- 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 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.

 When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- Burlop shall NOT be used to cover signs.
 Duct tape or other adhesive material shall NOT be affixed to a sign face.
- 7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work

SIGN SUPPORT WEIGHTS

- 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 CWZTCD 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.
- 8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

 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.

24" 24

Background - Orange Legend & Border - Black

Sign supports shall

extend more than

1/2 way up the back of the sign

substrate.

FRONT ELEVATION

Wood, metal or

STOP/SLOW PADDLES

When used at night, the STOP/SLOW paddle shall be retroreflectorized.

length of 6' to the bottom of the sign.

Hand Signaling Devices in the TMUTCD.

Background - Red Legend & Border - White

as detailed below.

1. STOP/SLOW paddles are the primary method to control traffic

3. STOP/SLOW paddles may be attached to a staff with a minimum

4. Any lights incorporated into the STOP or SLOW paddle faces

shall only be as specifically described in Section 6E.03

by flaggers. The STOP/SLOW paddle size should be 24" x 24"

Splicing embedded perforated square metal tubing in order to extend post

height will only be allowed when the splice is made using four bolts, two

above and two below the spice point. Splice must be located entirely behind

the sign substrate, not near the base of the support. Splice insert lengths

should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

Fiber Reinforced Plastic

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
- When permanent regulatory or warning signs conflict with work zone conditions. remove or cover the permanent signs until the permanent sign message matches the roadway condition.
- When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
- If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
- If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or the CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid
- for under the appropriate pay item for relocating existing signs.

 Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

SHEET 4 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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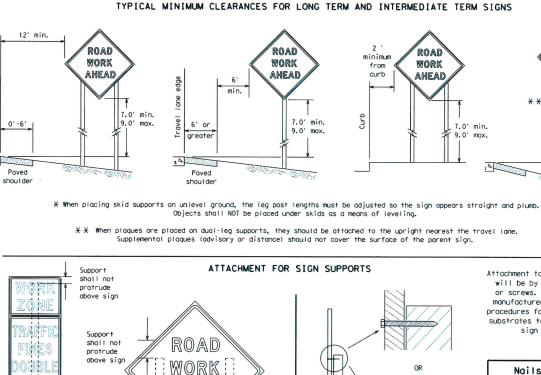
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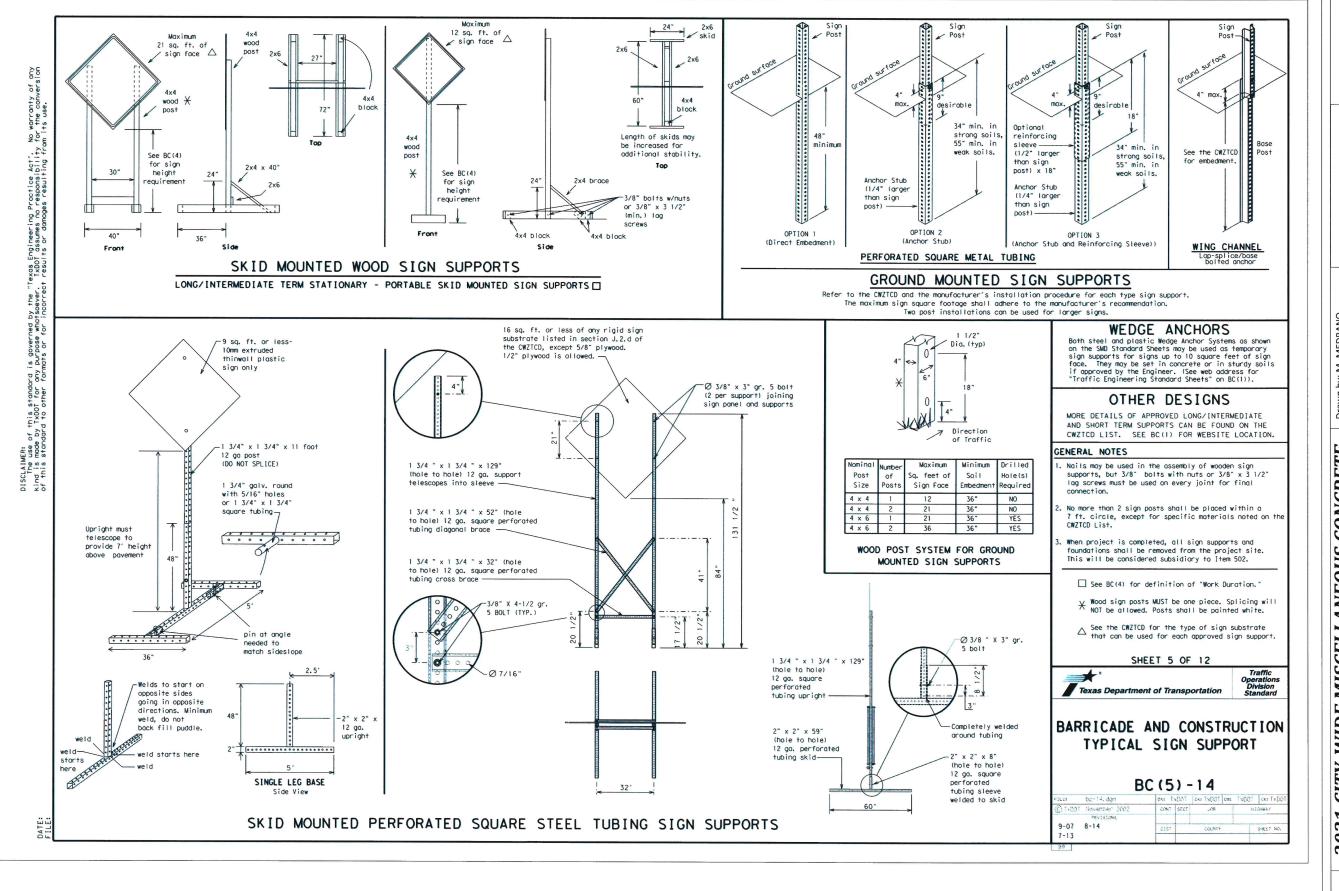
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DISCLAIMER:
The use o
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SHEET 22



SIDE ELEVATION



CITY OF KINGSVILLE ENGINEERING DEPARTMENT 400 West King Kingsville, Texas 78363 Office 361.595.8007 Fax 361.595.8035

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Drawn by: M. MEDR Date: 01/25/2021 Checked by: R. MOR Job:

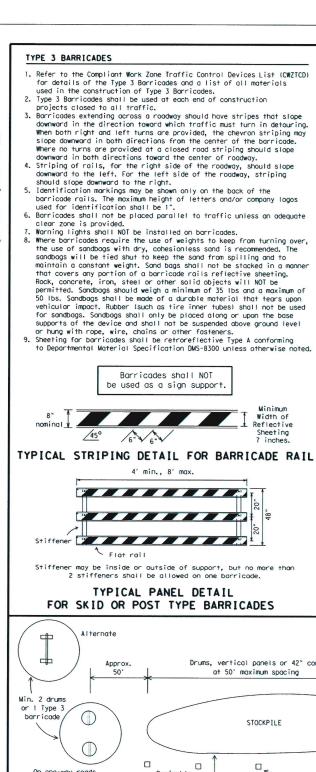
MISCELLANEOUS CONCRETE VAGE IMPROVEMENTS

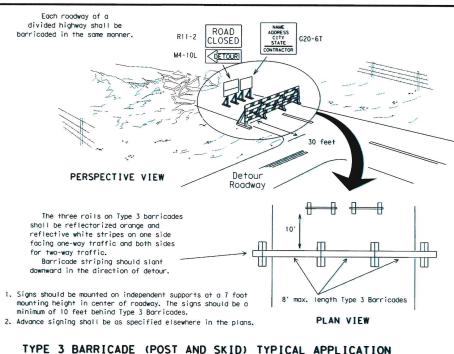
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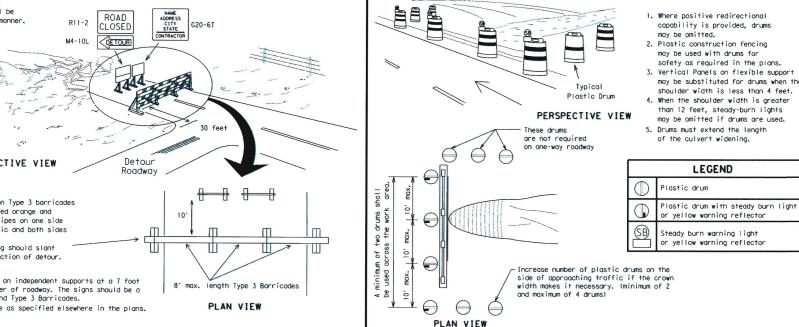
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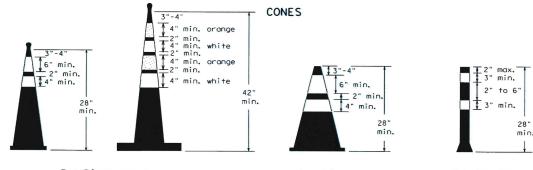
CITY-WIDE 2021

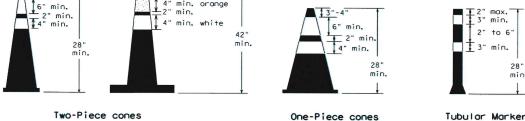


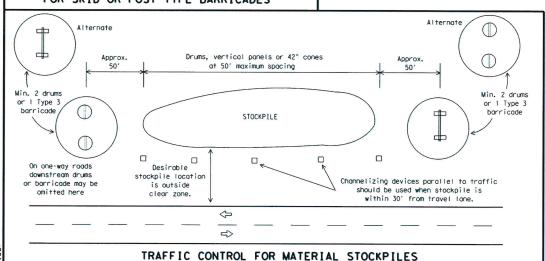












Minimum Width of

Reflective

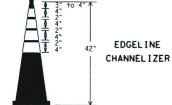
28" Cones shall have a minimum weight of 9 1/2 lbs. 42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

- 1. Traffic cones and tubular markers shall be predominantly orange, and
- meet the height and weight requirements shown above.

 2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
- 3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device. 4. Cones or tubular markers used at night shall have white or white and orange
- reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A. 5. 28" cones and tubular markers are generally suitable for short duration and
- short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
- 6. 42" two-piece cones, vertical panels or drums are suitable for all work zone
- 7. Cones or tubular markers used on each project should be of the same size



THIS DEVICE SHALL NOT BE USED ON



LEGEND

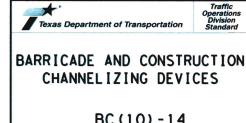
or yellow warning reflector

Steady burn warning light

Plastic drum with steady burn ligh

- 1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
- 2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
- 3. This device is based on a 42 inch. two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300. unless otherwise noted
- The base must weigh a minimum of 30 lbs.

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



SHEET 10 OF 12

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CITY OF KINGSVILLE ENGINEERING DEPARTMENT

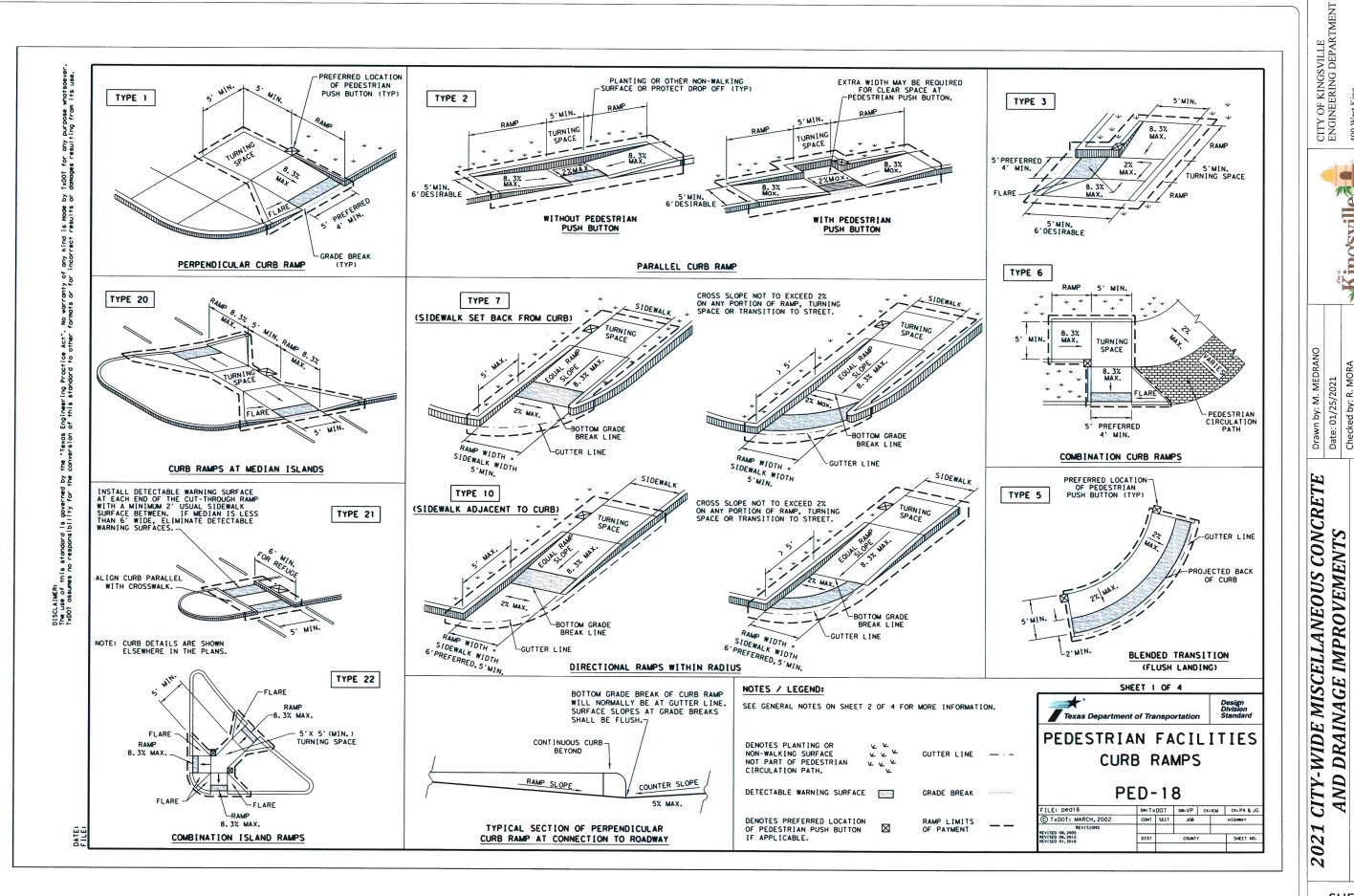
400 West King Kingsville, Texas 78363 Office 361.595.8007 Fax 361.595.8035

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Checked by:

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Drawn by:



PEDESTRIAN FACILITIES CURB RAMPS PED-18 (SHEET 1 OF 4)

400 West King Kingsville, Texa Office 361.595.8 Fax 361.595.803

Kingsyille

by: R.

GENERAL NOTES

CURB RAMPS

- 1. Install a curb ramp or blended transition at each pedestrian street crossing.
- 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%.
- 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).
- 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
- 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
- 14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless
- 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 dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
- 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.

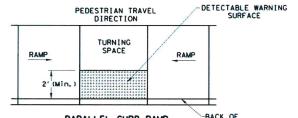
DETECTABLE WARNING PAVERS (IF USED)

- 25. Furnish detectable warning power units meeting all requirements of ASTM C-936, C-33. Loy 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.

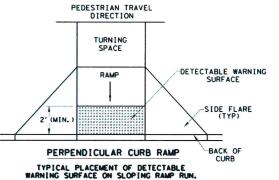
SIDEWALKS

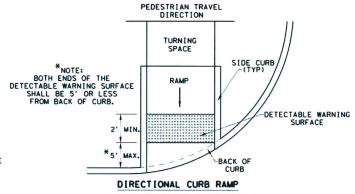
- 27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in
- 28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs. drainage facilities and other items so as not to obstruct the pedestrian access route
- 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
- 32. Handrail extensions shall not protrude into the usable landing area or into intersecting
- 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.

DETECTABLE WARNING SURFACE DETAILS



PARALLEL CURB RAMP TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.





SHEET 2 OF 4 Texas Department of Transportation PEDESTRIAN FACILITIES CURB RAMPS **PED-18**

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REVISED 06, 2012 REVISED 01, 2018	DIST	COUNTY		SHEET NO.		

DETECTABLE WARNING PAVER PREFABRICATED DETECTABLE WITH TRUNCATED DOMES WARNING PANEL SIDE FLARE (TYP) NO.3 REBAR AT 18" (MAX) ON-CENTER-BOTH WAYS OR AS DIRECTED -(MIN.) 5" DEPTH EXCLUSIVE OF DETECTABLE WARNING CLASS A CONCRETE - SHALL-CONFORM TO APPLICABLE SPECIFICATIONS

> SECTION VIEW DETAIL CURB RAMP AT DETECTIBLE WARNINGS

SHEET 26

CITY OF KINGSVILLE ENGINEERING DEPART

400 West King Kingsville, Texa Office 361.595.8 Fax 361.595.803

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CONCRETE

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IMPROVEMENTS

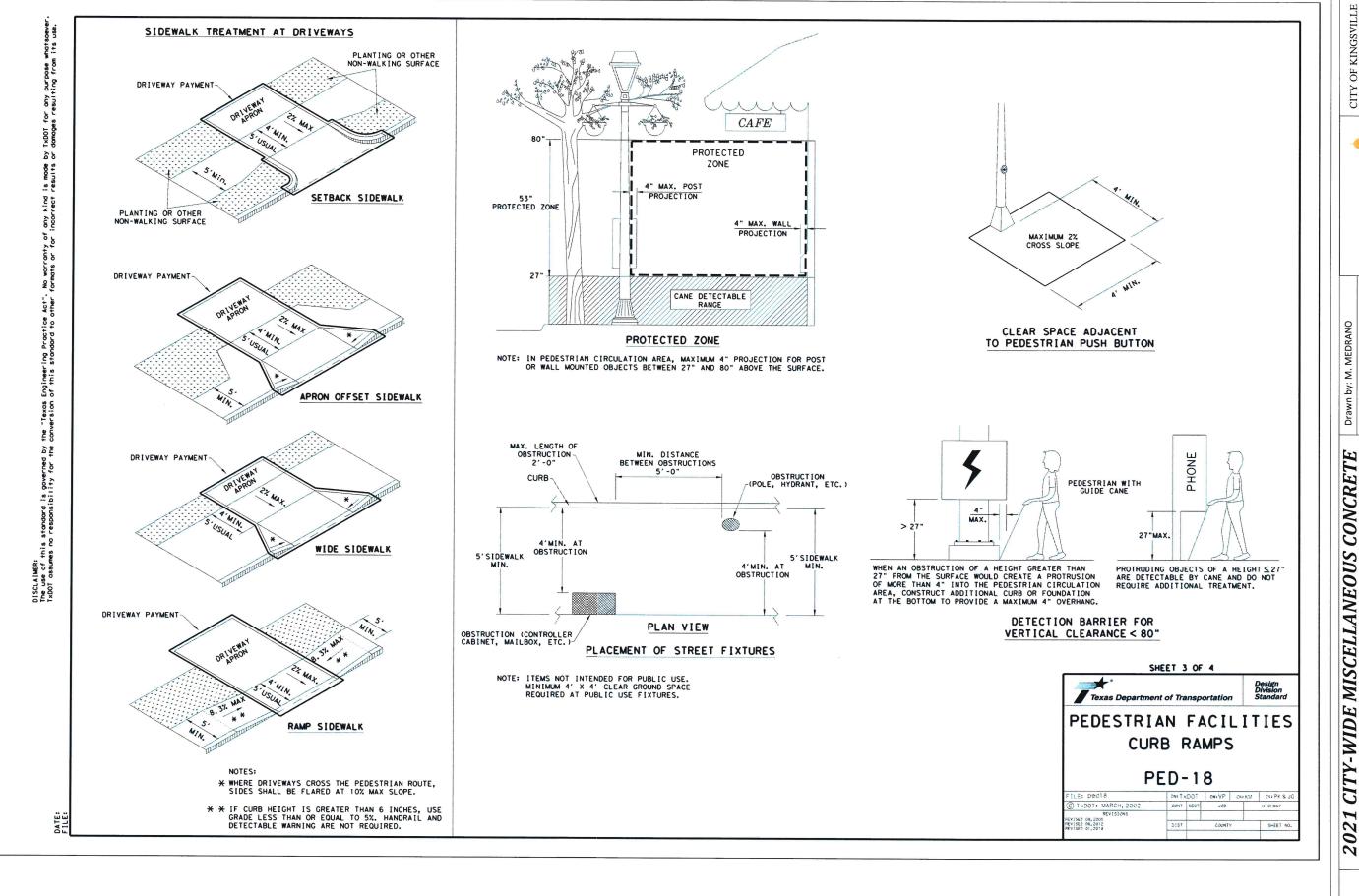
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PEDESTRIAN FACILITIES PED-18 (SHEET 2

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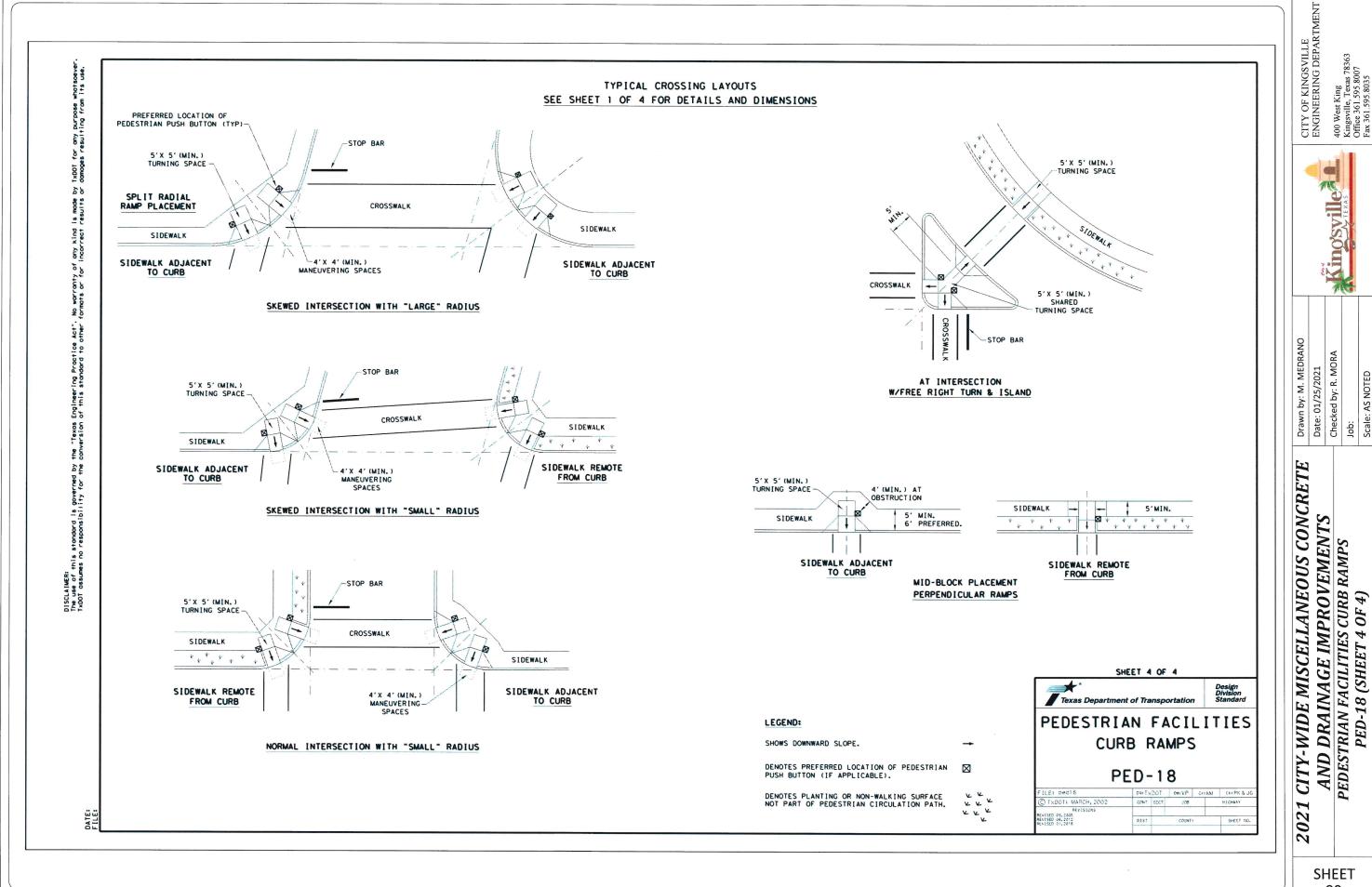
CITY OF KINGSVILLE ENGINEERING DEPARTMENT 400 West King

400 West King
Kingsville, Texas 78363
Office 361.595.8007
Fax 361.595.8035



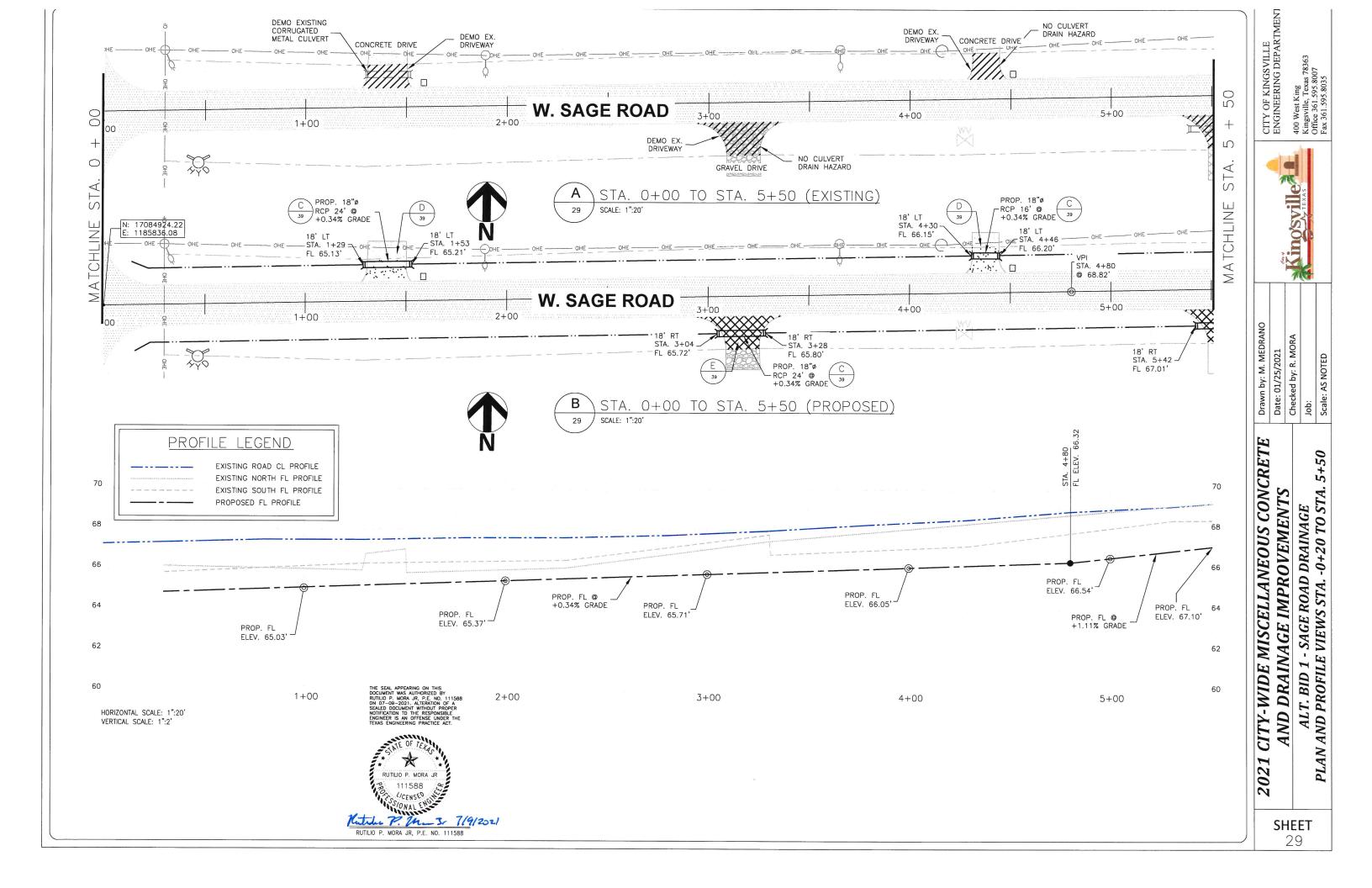
Drawn by: M. MEDRANO
Date: 01/25/2021
Checked by: R. MORA
Job:

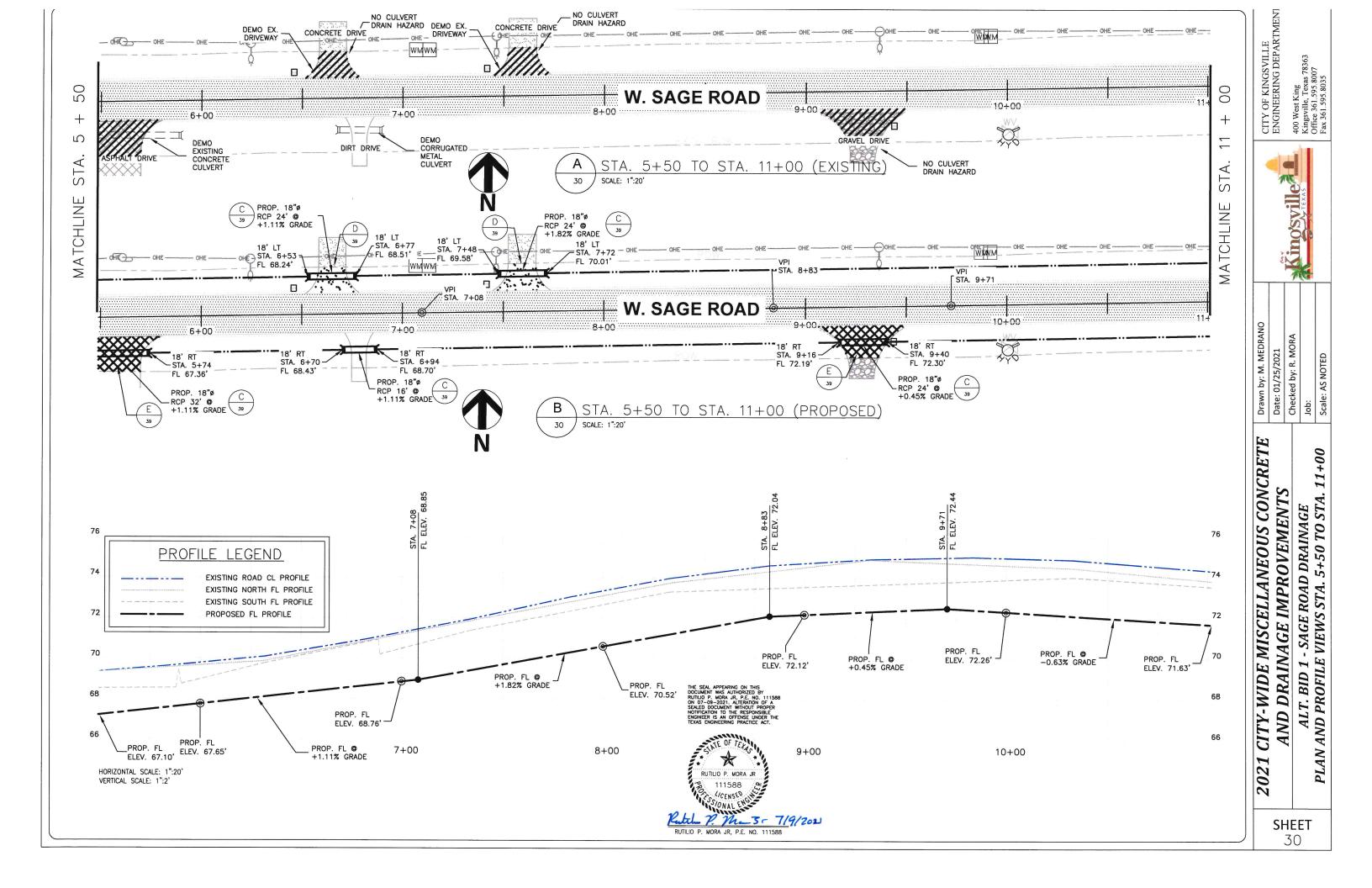
CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS
PEDESTRIAN FACILITIES CURB RAMPS
PED-18 (SHEET 3 0F 4)

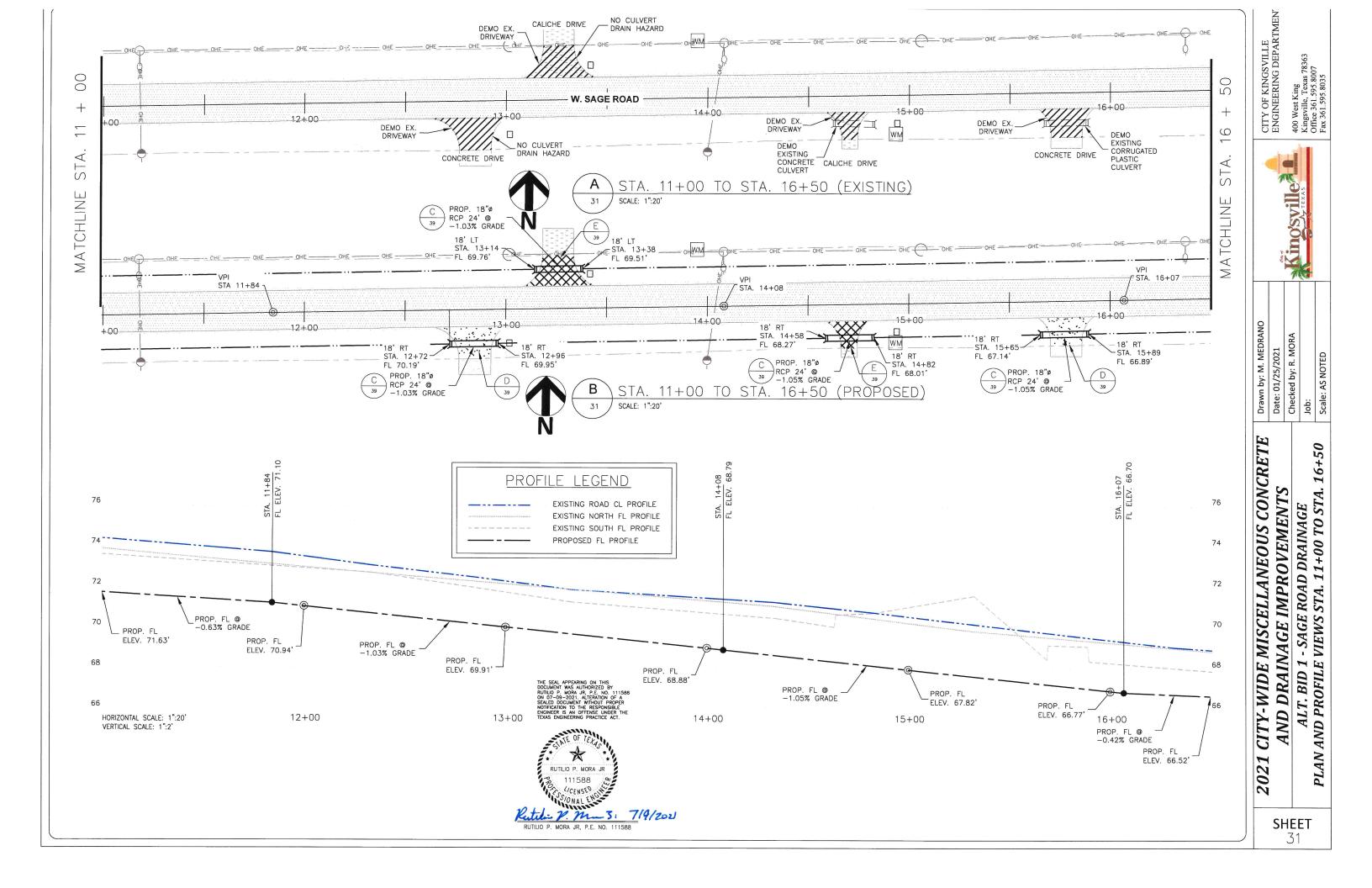


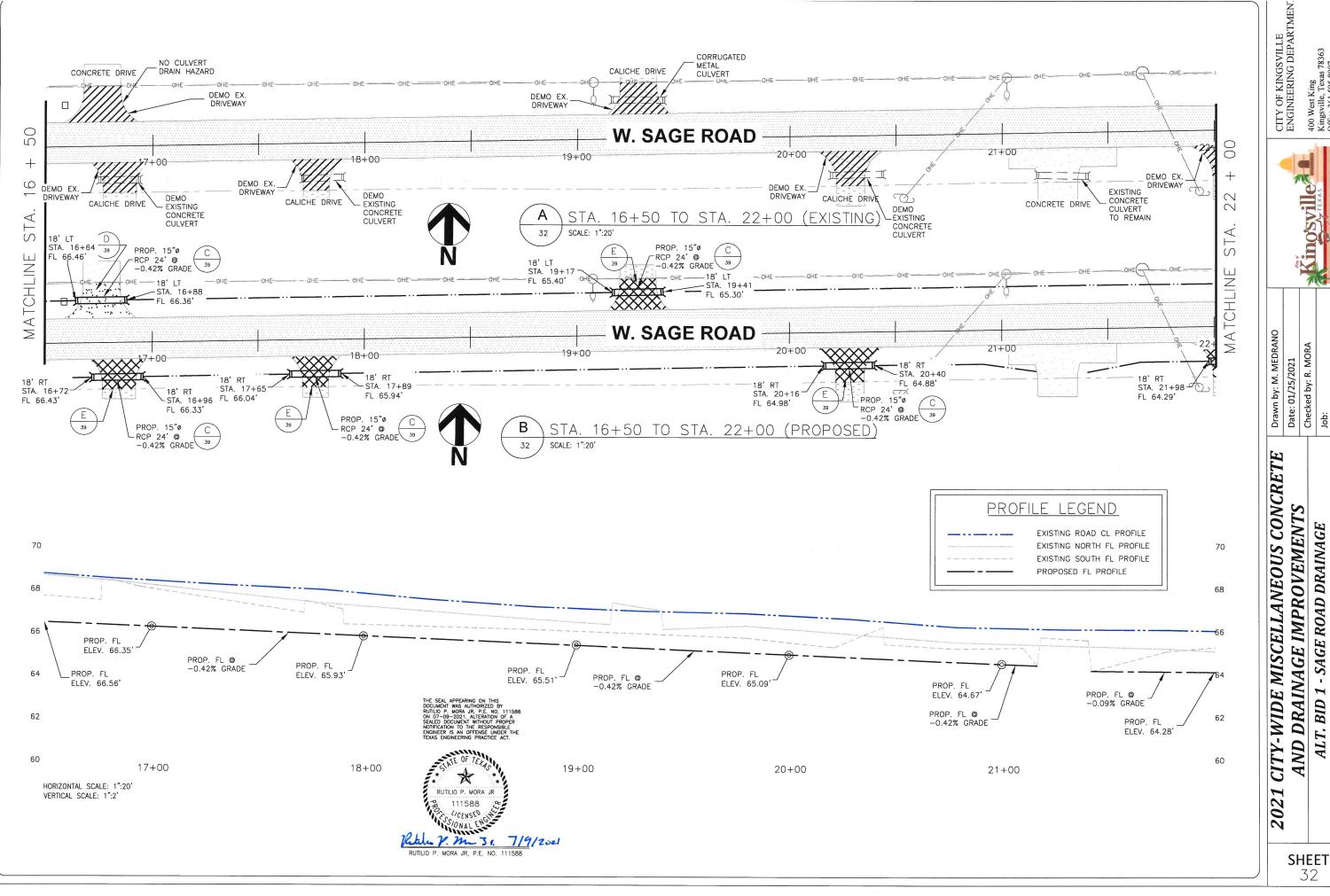
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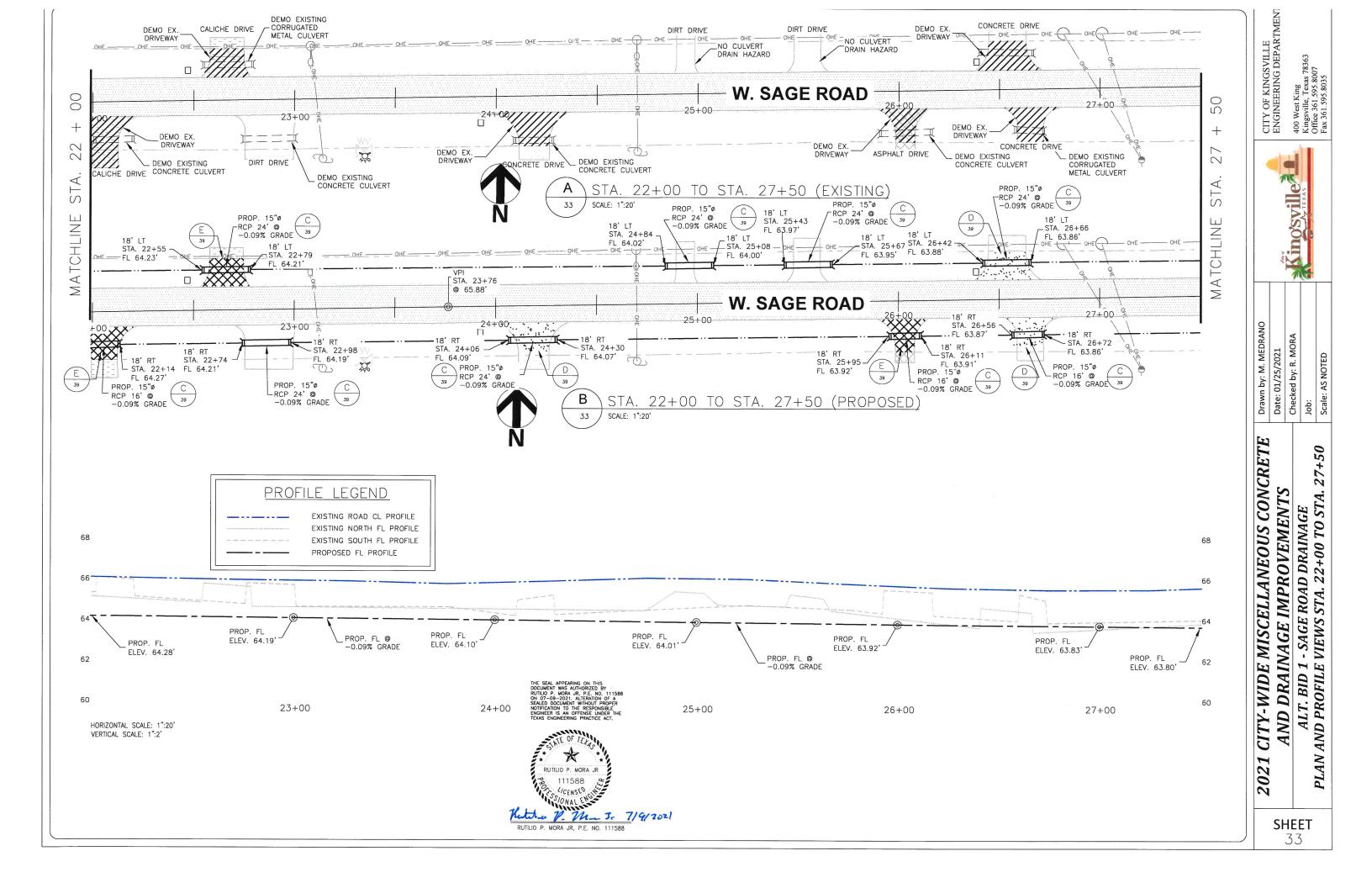


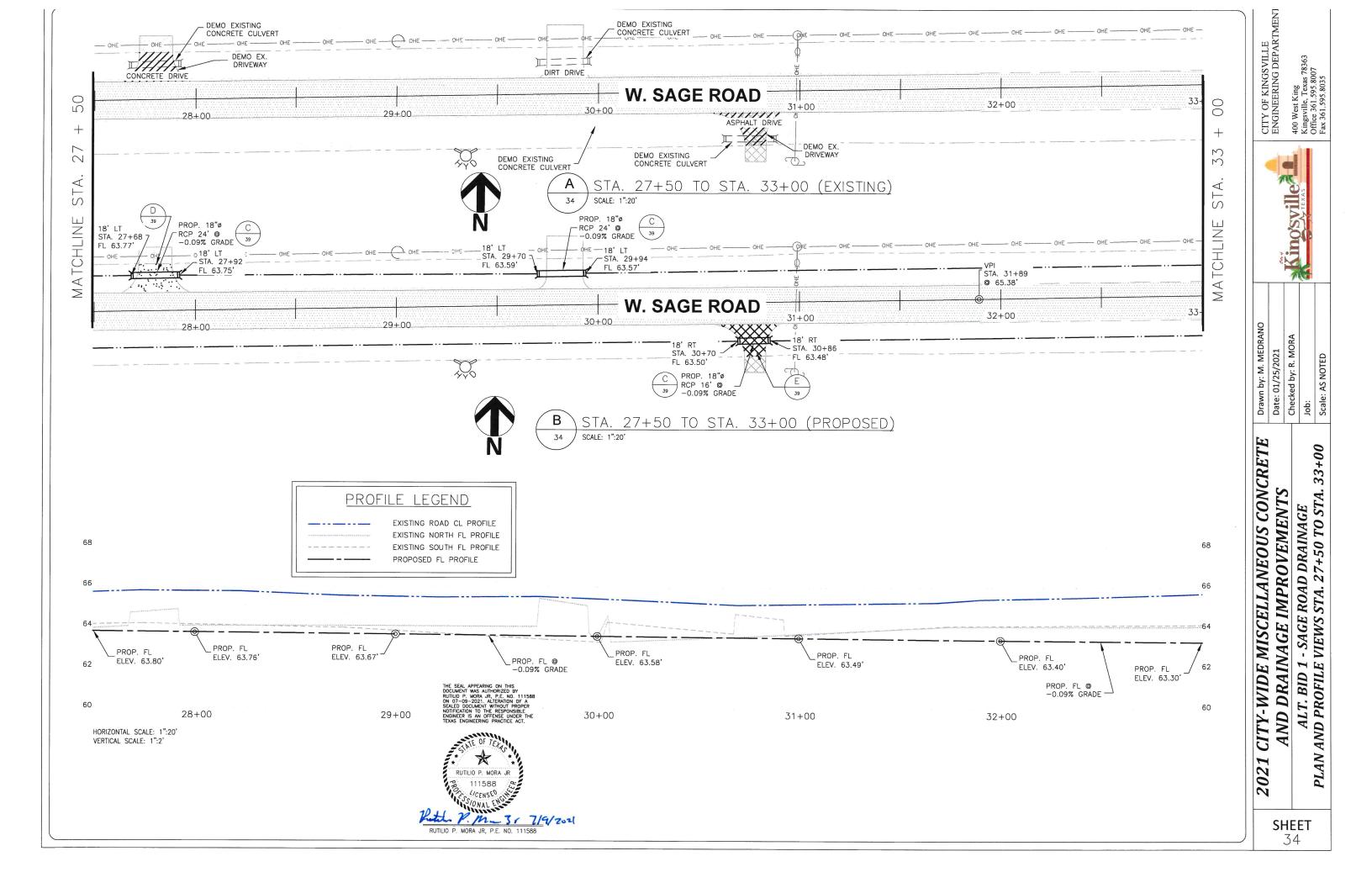


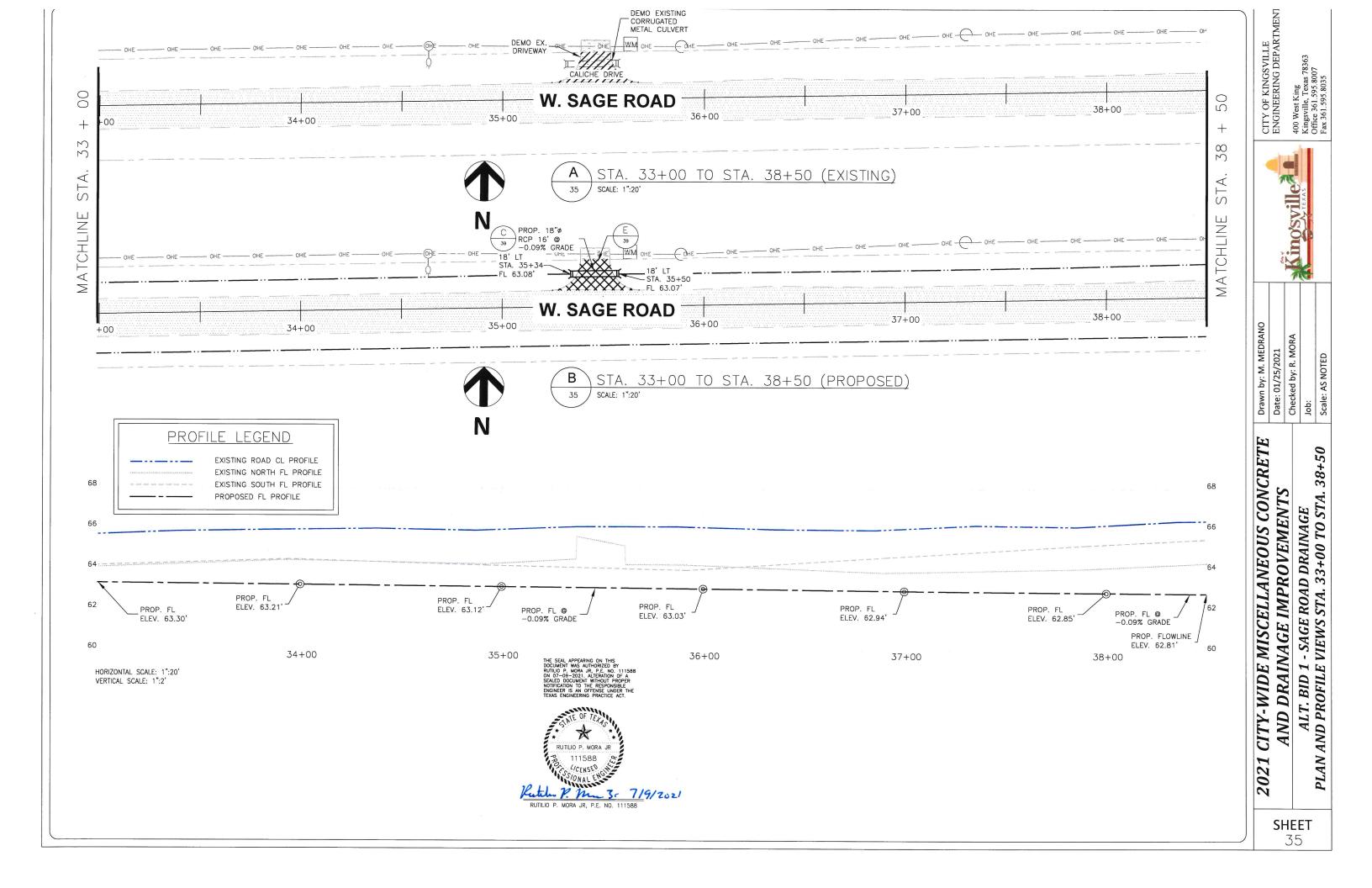


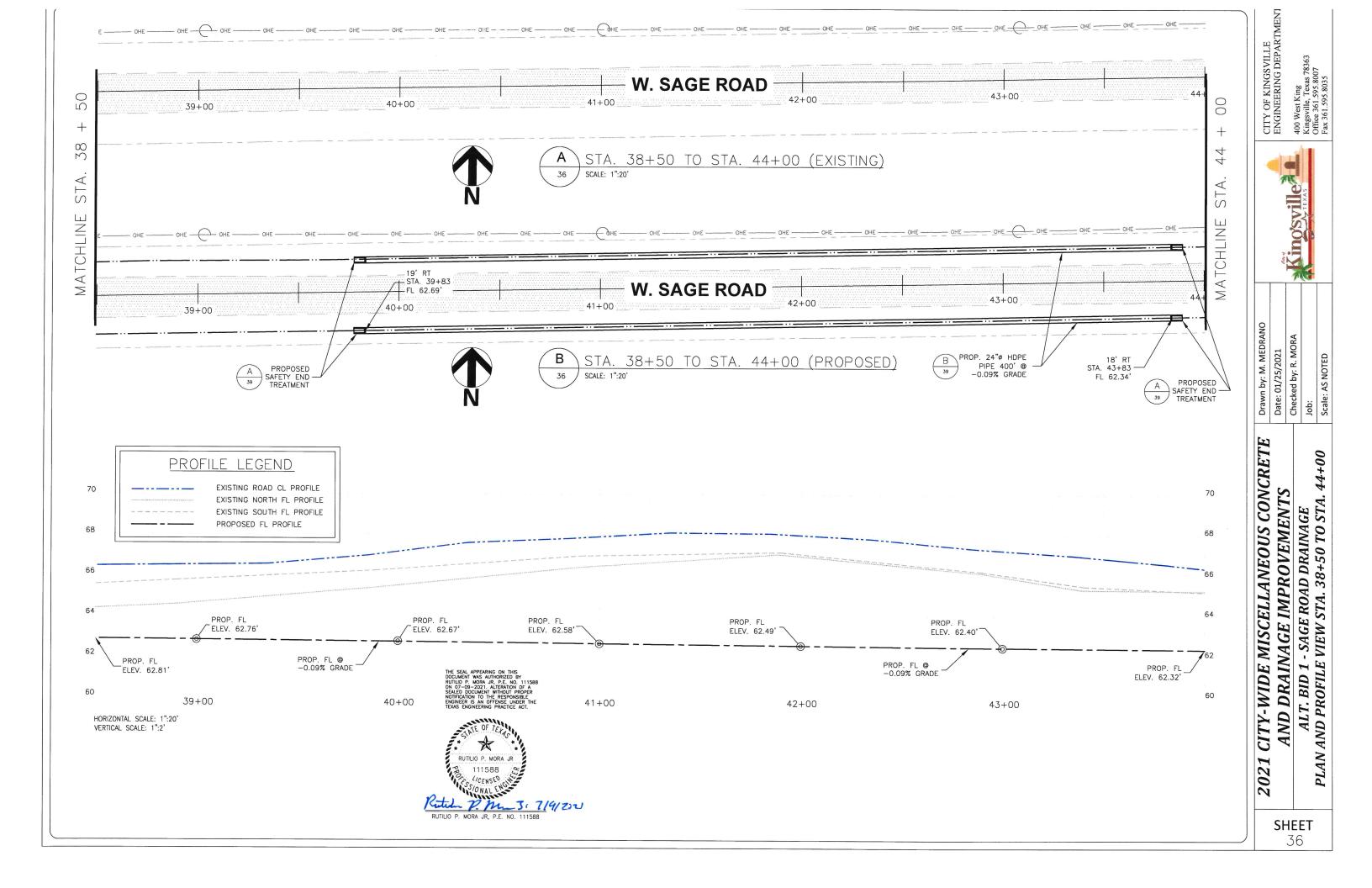


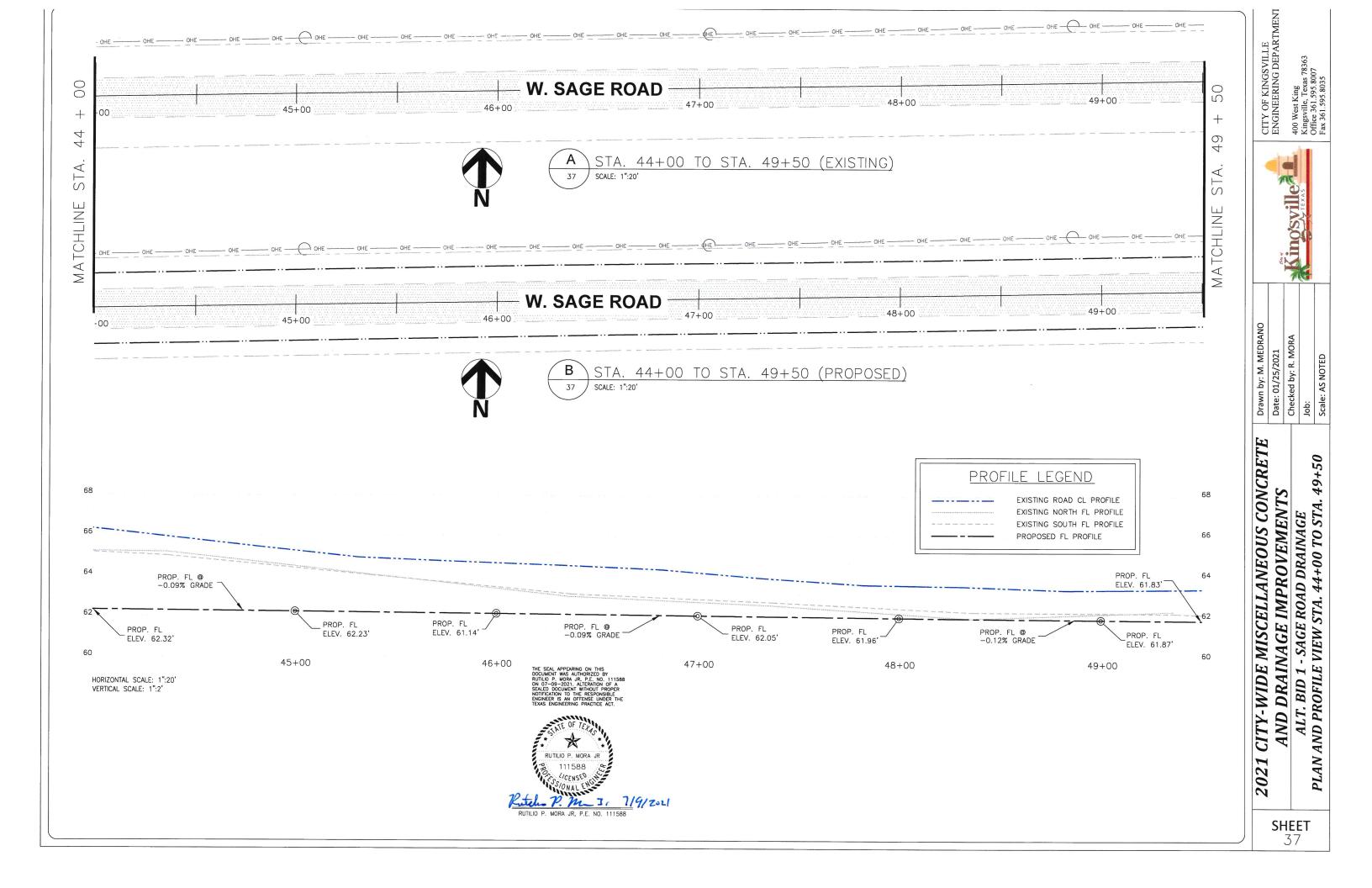
400 West King Kingsville, Texas 78363 Office 361.595.8007 Fax 361.595.8035 Kingsville Date: 01/25/2021 Checked by: R. MORA Job: 22+00 ALT. BID 1 - SAGE ROAD DRAINAGE PLAN AND PROFILE VIEWS STA. 16+50 TO STA.

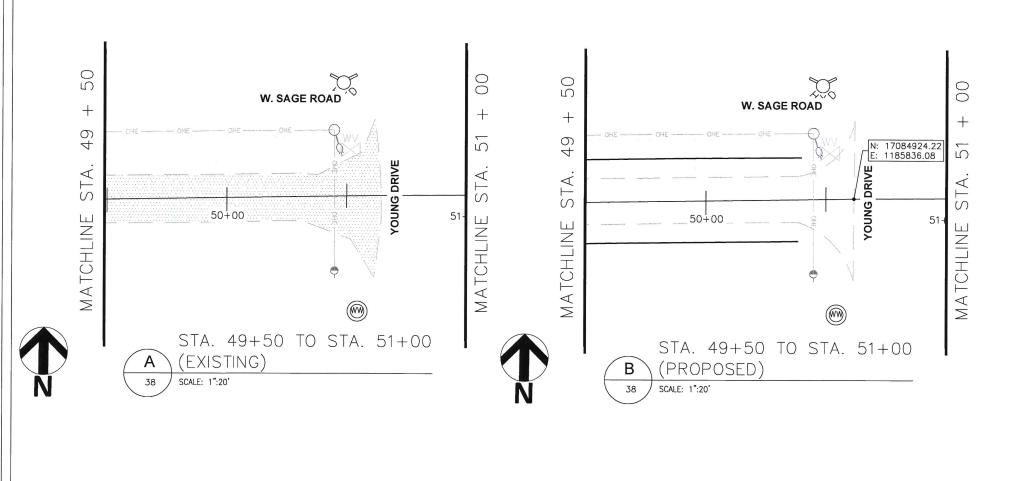


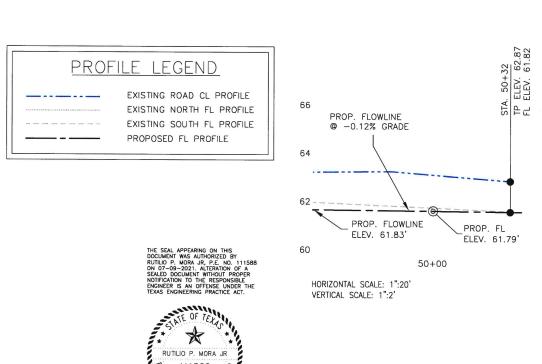












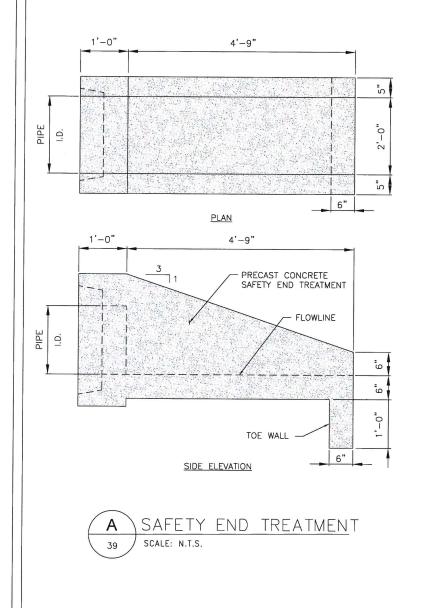
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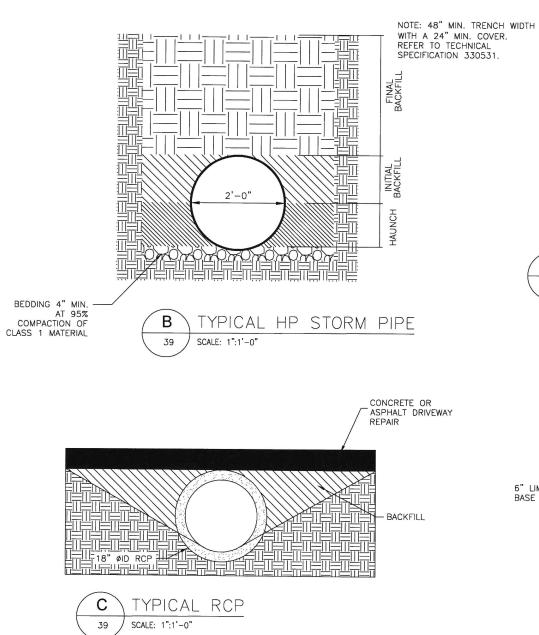
RUTILIO P. MORA JR, P.E. NO. 111588

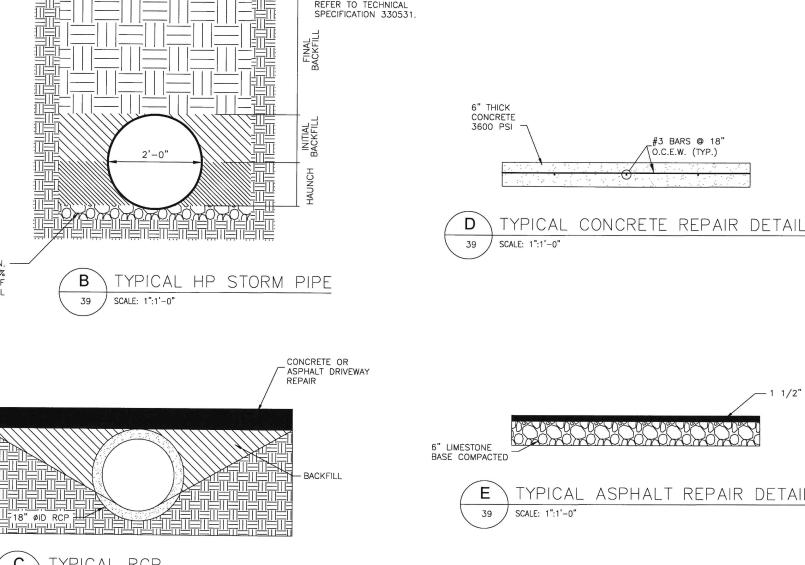
Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA 2021 CITY-WIDE MISCELLANEOUS CONCRETE
AND DRAINAGE IMPROVEMENTS
ALT. BID 1 - SAGE ROAD DRAINAGE
PLAN AND PROFILE VIEW STA. 49+50 TO STA. 51+00 2021

CITY OF KINGSVILLE ENGINEERING DEPARTMENT

Kingsville









P. Mm 3, 7/9/2021 RUTILIO P. MORA JR, P.E. NO. 111588

> SHEET 39

2021

Kingsville Drawn by: M. MEDRANO Date: 01/25/2021 Checked by: R. MORA Scale: AS NOTED CITY-WIDE MISCELLANEOUS CONCRETE AND DRAINAGE IMPROVEMENTS ALT. BID 1 - SAGE ROAD DRAINAGE TYPICAL SECTIONS

CITY OF KINGSVILLE ENGINEERING DEPARTMENT