

GENERAL NOTES:

1. It is the CONTRACTOR's responsibility to maintain neat and accurate plans of record.
2. The CONTRACTOR is responsible for maintaining adequate site drainage throughout the duration of this project.
3. The CONTRACTOR is responsible for obtaining all necessary permits and approvals before construction begins.
4. The CONTRACTOR shall replace all fence removed during construction in as good or better condition than before construction.
5. The CONTRACTOR shall take all necessary precautions to ensure that electric power and telephone poles are either moved to a safe location by the affected utility company or not disturbed during construction.
6. The CONTRACTOR shall restore all property including driveways, public streets, sidewalks, public utilities, franchise utilities, private utilities, and all other improvements removed or damaged inside and outside the project limits during construction to as good or better condition than before construction. Restoration shall be made immediately after the property no longer interferes with construction.
7. The information shown on these drawings concerning type and location of underground and other utilities is not guaranteed to be accurate or all-inclusive. The CONTRACTOR is responsible for making his own determinations as to the type and location of underground utilities and other utilities as may be necessary to avoid damage thereto.
8. The CONTRACTOR shall not place fill or waste material on any private property without prior written permission from the City of Lucas. No excess excavated material shall be deposited in low areas or along natural drainage ways that will restrict the natural flow of water. If the CONTRACTOR places excavated material in low areas that will cause flood damage, CONTRACTOR will be responsible for all damage resulting from such fill, and he shall remove the fill at CONTRACTOR's expense.
9. All residences within the scope of the Contract shall be kept accessible to property owners, fire trucks, ambulances and other emergency vehicles.
10. The CONTRACTOR shall be responsible for public safety during the duration of construction. All barricades, warning signs, lights, devices, etc., for the guidance and protection of traffic and pedestrians must conform to the installation shown in the Texas Manual on Uniform Traffic Control Devices, as currently amended. CONTRACTOR shall at all times provide barricades, warning signs and lighting adequate to safeguard the public from any hazards resulting from open trenches during non-work hours.
11. The CONTRACTOR shall use the public right-of-ways and existing utility easements for access to the job site.
12. The CITY OF LUCAS shall select the subcontractor to be utilized for testing and lab work. The CITY OF LUCAS shall be responsible for paying for testing and lab work. Testing shall include testing of concrete required to determine and ascertain that concrete strengths specifications are attained for all concrete on the project.
13. The CONTRACTOR shall keep excavated trenches free of groundwater during construction. If necessary, the CONTRACTOR shall utilize dewatering procedures in order to control groundwater during construction such that it does not affect his construction work.
14. The CONTRACTOR shall provide means for adequately controlling and avoiding soil erosion during construction. The CONTRACTOR shall not store spoil in drainage ways during construction.
15. All disturbed earth areas are to be finish graded to original or proposed contours, fertilized and covered with bermuda sod according to NCTCOG specifications immediately after construction. Backfill to be select material free of rock and other debris. CONTRACTOR shall thoroughly water the sod immediately after placement. The CONTRACTOR shall also be responsible for continued maintenance and watering of the newly sodded areas until the entire project is completed and accepted by the City of Lucas. Watering of the bermuda sod shall be done in a manner and quantity as directed by City of Lucas field representative.
16. The CONTRACTOR shall maintain adequate sanitary facilities for use by workers throughout construction.
17. The CONTRACTOR shall conform to the Occupational Safety and Health Administration's (OSHA) standards for trench safety that are in effect during the period of construction.
18. All materials and workmanship shall conform to the City of Lucas Standards and Specifications and the North Central Texas Council of Government (NCTCOG) Standards and Specifications. In the event of a conflict, the City of Lucas Standards and Specifications shall govern.
19. No existing trees shall be removed without approval of the City of Lucas.
20. CONTRACTOR shall provide all necessary construction staking.
21. CONTRACTOR's working hours shall be in accordance with the provisions of the current City Ordinance governing hours of construction work in the City.

GENERAL NOTES CONT'D.:

23. All concrete shall have a minimum compressive strength of 3,600 psi at 28 days (minimum 6 sacks of cement per cubic yard) unless otherwise noted.
24. All existing water lines to remain in service during construction. At times when water has to be cut-off, the CONTRACTOR shall coordinate with the City of Lucas.
25. The CONTRACTOR is responsible for keeping streets, parking areas, sidewalks, etc., adjacent to the project free of mud and debris from construction.
26. The CONTRACTOR shall assume responsibility for protection of public utilities in the construction of this project. All manholes, valve boxes, fire hydrants, etc., must be adjusted to proper line and grade by the CONTRACTOR when construction is completed. The CONTRACTOR shall also be responsible for support of existing utility poles, street signs, etc., when excavating in the vicinity of such poles.
27. The City of Lucas Public Works Department is to be notified 48 hours (2 working days) prior to any construction.
28. Arrangements for construction water shall be made through the City of Lucas.
29. All locations of underground utility lines are approximate. CONTRACTOR shall contact the proper utility companies at least 48 hours prior to construction, shall inform them of beginning of construction and shall make arrangements to have utilities located by flogging. Flogging of utilities shall be completed prior to beginning construction.
30. PVC pipe shall be manufactured from a low filler PVC component capable of meeting the highest performance standards of the ASTM specifications.
31. Construction site shall be secure at all times. Safety precautions shall be taken to protect the public from any injury which might result from construction activities.
32. Bid items provided are intended to be all-inclusive of the work required on this project. Work required by the plans or specifications but not provided with a specific pay item shall be considered incidental to other items of work.

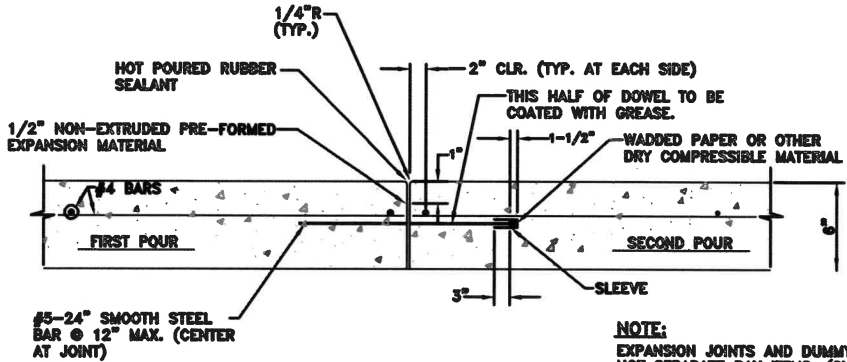
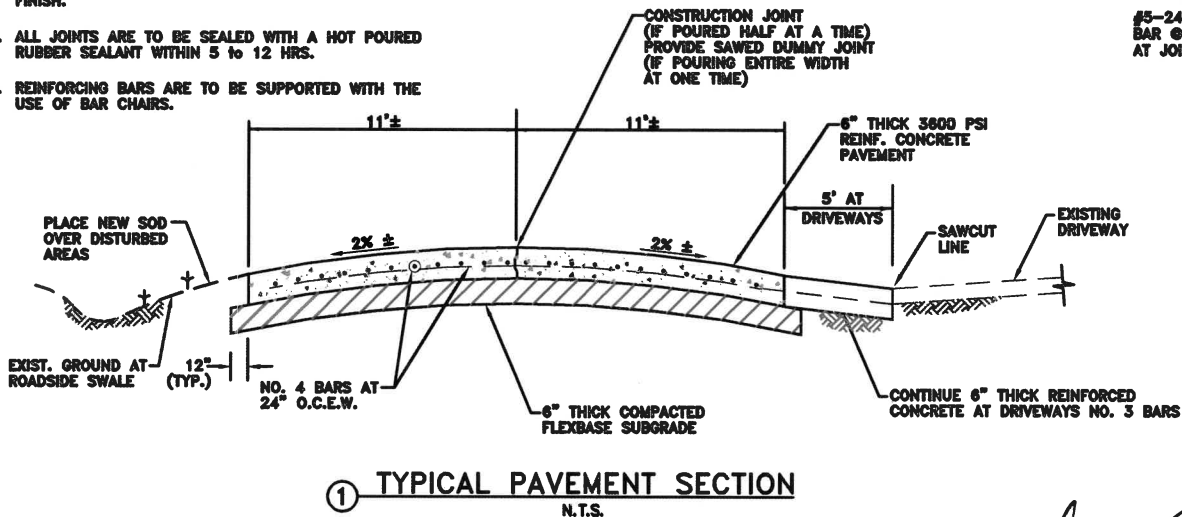
GENERAL TRAFFIC CONTROL NOTES:

Following are General Traffic Control Notes to be utilized on this project as applicable:

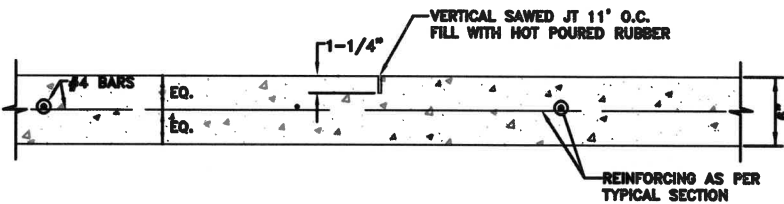
1. All temporary signs, markings, cones, channelizing devices, warning lights and barricades shall be in accordance with the current State of Texas Manual on Uniform Traffic Control Devices (MUTCD).
2. Any existing conflicting markings shall be removed prior to shifting traffic.
3. All temporary pavement markings required during construction shall be of the removable type. Temporary markings and striping may be required to transition travel lanes between construction phases. All pavement markings and striping shall be reflective.
4. The spacing of signs and channelization devices may be adjusted to fit the geometric conditions encountered, such as driveways, intersecting roadways, vertical and horizontal alignment, etc., as approved by the City of Lucas.
5. Advance warning signs shall not be displayed more than forty-eight (48) hours before physical construction begins. Signs may be erected up to one week before needed, if the sign face is fully covered.
6. Use of barricades, portable barrier rolls, vertical panels, and drums shall be limited to the immediate areas of construction where a hazard is present. These devices shall not be stored along the roadway within thirty (30) feet of the edge of the traveled way before or after use unless protected by guardrail, bridge roll, and/or barriers installed for other purposes. These devices shall be removed from the construction work zone when the City of Lucas determines they are no longer needed. Where there is insufficient right-of-way to provide for this thirty (30) foot setback, the City of Lucas shall approve alternate locations.
7. The posted speed for warning signage is to be determined at the site by the City of Lucas.
8. Reduced speed warning signage should be placed prior to and at regular intervals within the construction zone.
9. As part of the bid item, "Construction Barricading/Signing/Traffic Control," the CONTRACTOR is required to submit a traffic control plan for construction a minimum of 3 days prior to changes in traffic handling or movement. These plans are to be reviewed and approved by the City of Lucas prior to construction of that phase.
10. CONTRACTOR shall be required to place temporary pavement markings and/or buttons as needed to maintain traffic in a safe and efficient manner after removal of existing markings. These temporary markings shall not be paid for separately but shall be considered subsidiary to "CONSTRUCTION BARRICADING/SIGNING/TRAFFIC CONTROL".

NOTES:

1. CONTRACTOR SHALL PROVIDE TRANSVERSE SAWED DUMMY JOINTS EVERY 11' AND REDWOOD EXPANSION JOINTS AT EVERY P.C. AND P.T. AND NO MORE THAN 300' SPACING.
2. CONCRETE SURFACE SHALL HAVE A HEAVY BROOM FINISH.
3. ALL JOINTS ARE TO BE SEALED WITH A HOT POURED RUBBER SEALANT WITHIN 5 TO 12 HRS.
4. REINFORCING BARS ARE TO BE SUPPORTED WITH THE USE OF BAR CHAIRS.



NOTE:  
EXPANSION JOINTS AND DUMMY JOINTS ARE NOT SEPARATE PAY ITEMS, (SUBSIDIARY TO REINFORCED CONCRETE PAVEMENT)



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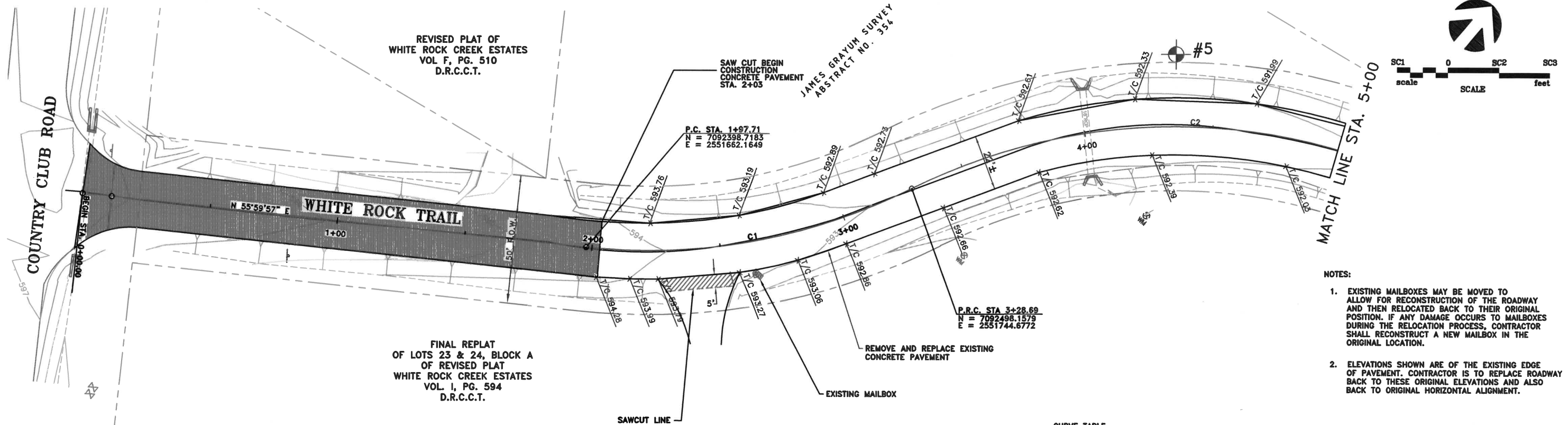
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CITY OF LUCAS, TEXAS  
DEPARTMENT OF PUBLIC WORKS



WHITE ROCK TRAIL  
ROAD IMPROVEMENTS  
GENERAL NOTES/CONSTRUCTION DETAILS  
CITY OF LUCAS

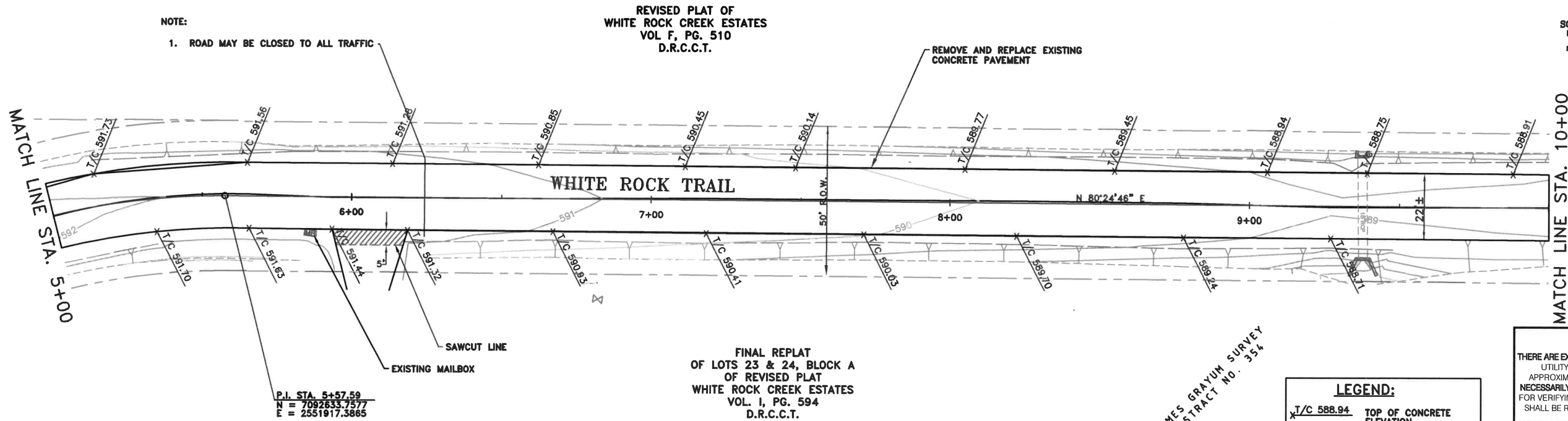
SHEET NO. 1  
OF 3 SHEETS  
JOB NO.



- NOTES:
- EXISTING MAILBOXES MAY BE MOVED TO ALLOW FOR RECONSTRUCTION OF THE ROADWAY AND THEN RELOCATED BACK TO THEIR ORIGINAL POSITION. IF ANY DAMAGE OCCURS TO MAILBOXES DURING THE RELOCATION PROCESS, CONTRACTOR SHALL RECONSTRUCT A NEW MAILBOX IN THE ORIGINAL LOCATION.
  - ELEVATIONS SHOWN ARE OF THE EXISTING EDGE OF PAVEMENT. CONTRACTOR IS TO REPLACE ROADWAY BACK TO THESE ORIGINAL ELEVATIONS AND ALSO BACK TO ORIGINAL HORIZONTAL ALIGNMENT.

CURVE TABLE					
NUMBER	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD DIRECTION	CHORD LENGTH
C1	230.00	32°37'41"	130.98	N 39°41'06" E	129.21
C2	230.15	56°59'05"	228.90	N 51°51'48" E	219.58

CONTROL POINTS COORDINATE LIST				
NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
5	7092604.6930	2551789.7390	592.61	1/2" I.R. W/CAP



- NOTE:
- ROAD MAY BE CLOSED TO ALL TRAFFIC

LEGEND:	
X/T/C 588.94	TOP OF CONCRETE ELEVATION
[Symbol]	CONCRETE STREET REMOVAL AND REPLACE
[Symbol]	CONCRETE DRIVEWAY REMOVAL AND REPLACE

**!! CAUTION !!**

THERE ARE EXISTING AND/OR PROPOSED UTILITIES IN PROJECT AREA. UTILITY INFORMATION SHOWN ON PLANS REPRESENTS APPROXIMATE LOCATIONS OF EXISTING UTILITIES AND IS NOT NECESSARILY ALL-INCLUSIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF ALL EXISTING UTILITIES AND SHALL BE REQUIRED TO PROTECT UTILITIES TO AVOID DAMAGE.

**PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT DIG-TESS, TEXAS ONE CALL, LONE STAR NOTIFICATION AND OTHERS AS REQUIRED TO LOCATE EXISTING UTILITIES.**

CONTRACTOR SHALL ALSO CONTACT APPROPRIATE CITY PUBLIC WORKS DEPARTMENT FOR FIELD LOCATES OF MUNICIPAL INFRASTRUCTURE 48 HOURS PRIOR TO CONSTRUCTION.

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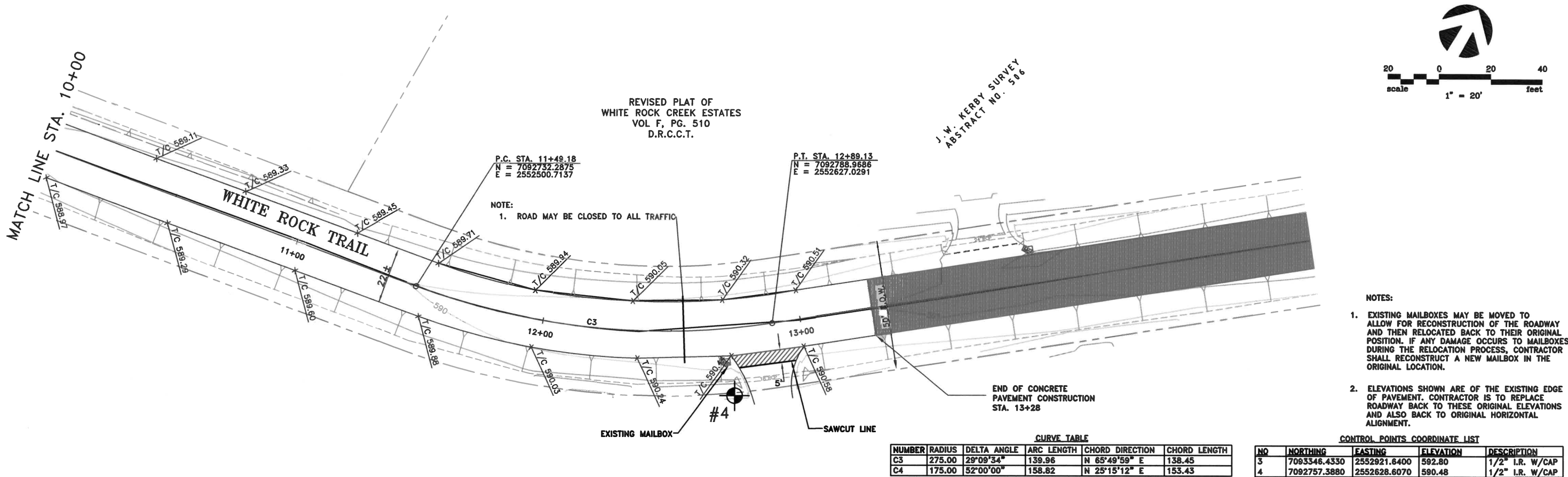
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DWG. NAME: \_\_\_\_\_

**CITY OF LUCAS, TEXAS**  
**DEPARTMENT OF PUBLIC WORKS**



**WHITE ROCK TRAIL**  
**ROAD IMPROVEMENTS**  
PAVING PLAN - SHEET 2  
CITY OF LUCAS

SHEET NO. 2  
OF 3 SHEETS  
JOB NO.

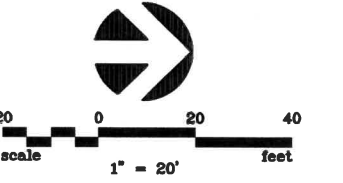


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[Line]	CONCRETE STREET REMOVAL AND REPLACE
[Hatched]	CONCRETE DRIVEWAY REMOVAL AND REPLACE