Exhibit B

ISSUED FOR BID HEBRON PARKWAY

FOR HEBRON PARKWAY MEDIAN, AND TRAIL DESIGN

CITY OF LEWISVILLE, TEXAS APRIL 2025

MAYOR

TJ GILMORE

CITY MANAGER
CLAIRE POWELL

CITY COUNCIL

BOB TROYER
RONNI CADE
BRANDON JONES
KRISTIN GREEN
WILLIAM MEREDITH
PATRICK KELLY



DESIGNER:

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

FREESE
SNICHOLS

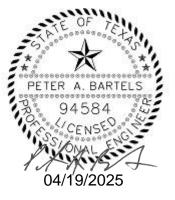
4055 International Plaza, Suite 200 Fort Worth, Texas 76109—4895 Phone — (817) 735—7300 Fax — (817) 735—7491



LOCATION MAP







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CITY OF LEWISVILLE GENERAL NOTES

- THE CITY OF LEWISVILLE'S INSPECTOR OVERTIME POLICY ALLOWS THE CONTRACTOR TO WORK FROM 7:00 AM TO 7:00 PM, MONDAY THROUGH SATURDAY. ANY REQUEST TO WORK ON A SATURDAY MUST BE MADE PRIOR TO 12:00 PM ON THURSDAY AFTERNOON AND WILL REQUIRE A MINIMUM FOUR (4) HOUR CHARGE. WORKING HOURS ON SATURDAY MUST REMAIN BETWEEN 9:00 AM AND 6:00 PM. THE CONTRACTOR SHALL PAY OVERTIME CHARGES OF \$45.00 PER HOUR TO THE CITY OF LEWISVILLE FOR WORK OUTSIDE THE NORMAL WORK WEEK (8:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY). NO WORK IS ALLOWED ON SUNDAYS OR CITY HOLIDAYS WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR DESIGNER.
- REFERENCES TO HALF-SIZE PLAN SHEETS ARE INTENDED TO INDICATE 11"X17" SHEETS. REFERENCES TO FULL-SIZE PLAN SHEETS ARE INTENDED TO INDICATE 22"X34" SHEETS.
- ANY TESTING THAT FAILS TO MEET CITY OF LEWISVILLE REQUIREMENTS SHALL BE RE-TESTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING AND LITTER REMOVAL IN THE PUBLIC RIGHT OF WAY AND DESIGNATED EASEMENTS WITHIN THE CONSTRUCTION LIMITS AS OFTEN AS NECESSARY AND AS DIRECTED BY THE ENGINEER. AT NO TIME SHALL WEEDS WITHIN THE PROJECT LIMITS REACH A HEIGHT GREATER THAN TWELVE(12) INCHES NO ADDITIONAL PAYMENT WILL BE MADE FOR MOWING AND LITTER REMOVAL AND ANY ASSOCIATED COSTS WILL BE CONSIDERED INCIDENTAL TO THE JOB.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO (2) YEAR, 100% MAINTENANCE BOND TO THE CITY OF LEWISVILLE FOR ALL PUBLIC IMPROVEMENTS (WATER, SANITARY SEWER, STORM DRAINAGE, PAVEMENT, SIDEWALK, SCREENING WALL, TRAFFIC SIGNALS, PAVEMENT MARKINGS, AND EXCAVATION/FILL) WITHIN RIGHT-OF-WAYS OR EASEMENTS.
- 6. NO WATER JETTING IS ALLOWED FOR WATER, SANITARY SEWER AND STORM SEWER DRAINAGE CONSTRUCTION.
- 7. THERE SHALL BE NO FILLING IN THE FLOODPLAIN OR DUMPING WITHIN THE CITY OF LEWISVILLE WITHOUT AN APPROVED GRADING PLAN AND/OR FILL PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES TO THE PLANS. THE PROJECT ENGINEER SHALL INCORPORATE THESE CHANGES IN "RECORD DRAWINGS".
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION CONTROL IN ACCORDANCE WITH THE EROSION CONTROL PLAN PREPARED BY THE ENGINEER AND/OR AS IDENTIFIED ON THE STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.). THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL DEVICES WHEN FIELD CONDITIONS WARRANT OR AS DIRECTED BY THE CITY OF LEWISVILLE OR THE PROJECT ENGINEER.
- 10. THE PERMITTED OPERATOR SHALL SUBMIT COPIES OF THE NOTICE OF INTENT (N.O.I.) AND THE NOTICE OF TERMINATION (N.O.T.) TO THE CITY OF LEWISVILLE ENGINEERING DIVISION AND THE PROJECT ENGINEER AS PART OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- 11. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONCRETE PAVEMENT (DRIVE APPROACHES / STREET PANELS) WITHIN FIVE (5) DAYS OF SAW CUTTING THE PAVEMENT. CONCRETE PAVEMENT SUBJECT TO VEHICULAR TRAFFIC SHALL HAVE A COMPRESSIVE STRENGTH OF 4,200 PSI AT 3 DAYS.
- 12. THE MAXIMUM P.I. ALLOWED FOR A TREATED SUBGRADE IS 25.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL THIRD PARTY COSTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT. (i.e. INSPECTIONS, FLAGGERS, TRAFFIC CONTROL PERFORMED BY POLICE OFFICERS AND ETC.)
- 14. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS INCLUDING ALL NOTES, THE CITY OF LEWISVILLE STANDARDS FOR CONSTRUCTION AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- 15. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF LEWISVILLE CONSTRUCTION STANDARDS, SPECIFICATIONS, AND DETAILS, THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS (OCTOBER 2004) SHALL APPLY WITH CONCURRING NOTIFICATION TO THE CITY ENGINEER AND PROJECT ENGINEER. THE ENGINEER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS, AND PROCEDURES.
- 16. NO TREES OUTSIDE PROJECT SLOPE EASEMENTS SHALL BE CUT EXCEPT ON SPECIFIC AUTHORITY OF THE ENGINEER. THE CONTRACTOR SHALL PROTECT THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, AND LAWNS UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANY DAMAGE TO THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, OR LAWNS CAUSED BY THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CITY, AT THE CONTRACTOR'S EXPENSE.

17. VERIFY LOCATIONS OF FRANCHISE UTILITIES BEFORE BEGINNING EXCAVATION. IF NECESSARY, DIG TEST DITCHES TO DETERMINE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY A REPRESENTATIVE OF THE FRANCHISE UTILITIES NOT LESS THAN 72 HOURS BEFORE BEGINNING WORK WITHIN THE AGENCIES' R.O.W.'S OR NEAR THEIR FACILITIES:

> CITY OF LEWISVILLE (PUBLIC WORKS) 972-219-3510 UTILITY LINE LOCATOR 800-DIG-TESS VERIZON BUSINESS 972-729-6404 FRONTIER 972-318-5186 TEXAS NEW MEXICO POWER 972-420-4189x4114 UTRWD 972-219-1228 817-215-6237 ONCOR (TRANSMISSION) 214-206-2717 **ATMOS** AT&T (LEGACY) 214-821-9846 214-320-7576 SPECTRUM GRANDE COMMUNICATIONS 972-410-0584

- 18. ALL EXISTING UTILITIES ARE AS PER AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES.
- 19. 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 ALL UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REPAIR ANY DAMAGES TO EXISTING UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES IN THE AREA OF CONSTRUCTION A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION
- 20. CONSTRUCTION INSPECTION WILL BE PERFORMED BY REPRESENTATIVES OF THE CITY. ENGINEER, GEOTECHNICAL TESTING LAB ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS.
- 21. ALL WORK SHALL CONFORM TO THE CITY OF LEWISVILLE CONSTRUCTION STANDARDS, SPECIFICATIONS, AND DETAILS, UNLESS SHOWN OTHERWISE IN THE PLANS AND SPECIFICATIONS.
- 22. CONTRACTOR SHALL TAKE PICTURES AND VIDEO PRIOR TO CONSTRUCTION TO DOCUMENT SITE CONDITIONS. COPIES SHALL BE PROVIDED TO THE CITY AND ENGINEER. THIS SHALL BE CONSIDERED SUBSIDIARY TO MOBILIZATION.
- 23. THE CONTRACTOR SHALL NOT UNLOAD OR STORE MATERIALS, PERMIT WORKERS TO PARK, NOR PARK EQUIPMENT WITHIN THE STREET RIGHT-OF-WAY WHERE THE STREET IS OPEN TO PUBLIC TRAVEL WITHOUT PRIOR APPROVAL OF THE CITY.
- 24. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE CHEMICALLY TREATED PORTABLE TOILET FOR EVERY 20 WORKMEN ON THE JOB SITE, A MINIMUM OF ONE TOILET IS REQUIRED. THE UNIT(S) SHALL REMAIN ON THE SITE DURING ALL ACTIVE PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL ENFORCE THE USE OF THE FACILITIES BY ALL PERSONNEL AT THE SITE. THE UNIT(S) SHALL BE OBSCURED FROM PUBLIC VIEW TO THE GREATEST EXTENT PRACTICABLE. THE PORTABLE TOILETS SHALL BE CLEANED A MINIMUM OF ONE TIME PER WEEK.
- 25. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY UNITS, SCHOOL DISTRICTS, AND THE US POSTAL SERVICE OPERATING WITHIN THE AREA OF THE PROPOSED WORK OF STREET OR LANE CLOSURES AND CONSTRUCTION SCHEDULES A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK.

LEWISVILLE I.S.D DEPARTMENT OF TRANSPORTATION 972-221-4557 CITY OF LEWISVILLE FIRE AND RESCUE DEPARTMENT 972-219-3580 CITY OF LEWISVILLE POLICE DEPARTMENT 972-219-3600 US POSTAL SERVICE 972-436-9941

- 26. ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT MUST BE MAINTAINED FOR EMERGENCY AND LOCAL TRAFFIC AT ALL TIMES.
- 27. THE CONTRACTOR SHALL MAINTAIN FIRE EMERGENCY VEHICLE ACCESS TO FIRE HYDRANTS THROUGHOUT THE DURATION OF THE PROJECT. INACTIVE FIRE HYDRANTS SHALL BE
- 28. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION AT ALL TIMES.
- 29. SOD ALL AREAS FROM BACK OF CURB TO RIGHT-OF-WAY. SOIL UNDER SOD SHALL BE 4" OF OFF SITE TOP SOIL APPROVED BY ENGINEER. ALL OTHER DISTURBED AREAS SHALL BE SEEDED WITH BERMUDA GRASS DURING SUMMER MONTHS (MAY 1 TO AUGUST 30). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE. DISTURBED AREAS THAT ARE SEEDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED IF NECESSARY. RE-SEEDING IF NECESSARY WILL BE INCIDENTAL.
- 30. THE CONTRACTOR SHALL PLACE THE PROJECT SIGNS AS DIRECTED BY THE ENGINEER. THE PROJECT SIGNS ARE SUBSIDIARY TO THE VARIOUS BID ITEMS. THE PROJECT SIGN SHALL BE COMPLETE IN PLACE WITHIN 10 DAYS OF NOTICE TO PROCEED.
- 31. ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE PROPOSED CENTERLINE OF THE PAVEMENT, PIPE, ETC. AND THE BACK OF CURB, UNLESS NOTED OTHERWISE.
- 32. 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 OF UNIFORM TRAFFIC CONTROL DEVICES, AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF TRANSPORTATION.
- 33. ANY EXCESS FILL MATERIAL MUST BE DISPOSED OF OFFSITE.

- 34. ALL TRENCHES THAT ARE EXCAVATED TO A DEPTH IN EXCESS OF FIVE (5) FEET SHALL BE EXCAVATED AND MAINTAINED IN A MANNER THAT MEETS ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. PRIOR TO THE EXCAVATION AND CONSTRUCTION OF THE TRENCH(ES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TWO (2) COPIES OF THE TRENCH SAFETY PLANS PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH OSHA STANDARDS.
- 35. ALL EMBEDMENT AND BACKFILL SHALL BE WETTED TO APPROXIMATE OPTIMUM MOISTURE AND COMPACTED IN TWELVE (12) INCH LIFTS TO 95% STANDARD PROCTOR DENSITY. DENSITY TESTS SHALL BE OBTAINED FOR EACH LIFT AND FOR EACH 150 LINEAR FEET OF TRENCH OR INCREMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A COPY OF ALL GEOTECHNICAL LABORATORY RESULTS TO THE CITY OF LEWISVILLE.
- 36. THE USE OF FLY ASH IS NOT ALLOWED IN THE CONCRETE MIX DESIGN.
- 37. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING A PRELIMINARY GEOTECHNICAL REPORT AT THE TIME OF THE SUBMITTAL OF THE CONSTRUCTION DRAWINGS. THE DEVELOPER / CONTRACTOR IS RESPONSIBLE FOR PROVIDING A GEOTECHNICAL REPORT UPON COMPLETION OF THE SUBGRADE TREATMENT FOR COMPARISON.

PAVING NOTES

- 1. TYPICAL PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS UNLESS SHOWN DIFFERENTLY ON THE CONSTRUCTION PLANS, SPECIFICATIONS, OR GEOTECH REPORT. • 6"-3.500 PSI COMP. WITH 5.5 SACK MIN. CONTENT
- 2. REINFORCED CONCRETE PAVEMENT
 - a. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
 - b. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE
 - c. DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON SHEET PDT-02 OF THE STANDARD CONSTRUCTION DETAILS.
 - d. BAR LAPS SHALL BE 30 DIAMETERS. (12" MINIMUM)
 - e. PAVEMENT SHALL BE REINFORCED WITH NO. 3 BARS ON 18" CTRS. BOTH WAYS AND TIED AT EVERY SPLICE.
- 3. A SUBBASE PREPARATION TEST SHALL BE PERFORMED AT 100 FOOT INTERVALS. THE MATERIAL AND THE LIME SHALL BE THOROUGHLY MIXED BY APPROVED ROAD MIXERS OR OTHER APPROVED EQUIPMENT. THE SOIL IS TO BE FREE FROM ALL CLODS OR LUMPS AND BROUGHT TO THE PROPER MOISTURE CONTENT AND LEFT TO CURE FOR FOUR (4) DAYS. DURING THE CURING PERIOD, THE MATERIAL SHALL BE KEPT AT OPTIMUM MOISTURE CONTENT. THE COMPACTION (DENSITY) SHALL BE 95% PROCTOR MINIMUM CONTROLLING FOR OPTIMUM MOISTURE CONTENT.
- 4. ALL EXPANSION JOINTS SHALL BE DOWELED. THE DOWEL SHALL BE 3/4 INCH IN DIAMETER AND 24 INCHES LONG WITH AN EXPANSION JOINT ON ONE END. THE DOWEL SHALL BE GREASED ON THE EXPANSION JOINT END ONLY. THE EXPANSION JOINT SHALL HAVE A 3/4 INCH REDWOOD TEAR OFF STRIP. ALL REDWOOD WILL HAVE PRE-DRILLED OR DRILLED HOLES FOR THE DOWELS TO GO THROUGH.
- 5. ALL PAVEMENT, DRIVEWAYS, PARKING AREAS, SIDEWALKS AND OTHER MATERIAL REQUIRED TO BE REMOVED SHALL BE CONSIDERED SUBSIDIARY TO THE RIGHT-OF-WAY PREPARATION BID ITEM.
- 6. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL PROPERTY OWNERS, RESIDENTS. BUSINESSES, AND CITY FACILITIES DURING CONSTRUCTION.
- 7. AT THE DISCRETION OF THE CITY OF LEWISVILLE, THERE SHALL BE A SLUMP TEST OF CONCRETE DELIVERED. CONCRETE CYLINDERS SHALL BE DRAWN AT INTERVALS TO BE DETERMINED BY THE CITY OF LEWISVILLE INSPECTORS. THERE SHALL BE BREAKS AT 7 DAYS AND 28 DAYS (3 DAY BREAK FOR HIGH EARLY STRENGTH CONCRETE).
- 8. ALL CONSTRUCTION JOINTS TO BE IN ACCORDANCE WITH CITY STANDARDS AND PROJECT DRAWINGS ON SHEET L4.09.

SIDEWALK NOTES

- 1. BARRIER FREE RAMPS WILL BE BUILT WITH THIS PROJECT. LOCATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO CLEAR OBSTRUCTIONS.
- 2. SIDEWALK AND BARRIER FREE RAMP CONSTRUCTION SHALL COMPLY WITH ADA, PROWAG, AND TAS REGULATIONS.
- 3. ANY EXCAVATION, FILL, BACKFILLING OR GRADING REQUIRED IN THE CONSTRUCTION OF THE SIDEWALK OR RETAINING WALLS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF CONSTRUCTION OF THE SIDEWALK.

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LANDSCAPE GENERAL NOTES

- SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT IS NOT OBTAINABLE AND AUTHORIZATION BY THE OWNER OR HIS REPRESENTATIVE BY A CHANGE ORDER PROVIDING FOR THE USE OF THE NEAREST EQUIVALENT OBTAINABLE SIZE OR VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS AT NO ADDITIONAL COST TO OWNER.
- 2. PLANTS SHALL BE PACKED AND PROTECTED DURING DELIVERY AND AFTER ARRIVAL AT THE SITE, AGAINST CLIMATIC, SEASONAL, WIND DAMAGE, OR OTHER INJURIES, AND AT NO TIME SHALL BE ALLOWED TO DRY OUT.
- 3. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 4. AT THE END OF THE GUARANTEE PERIOD THE OWNER'S REPRESENTATIVE AND LANDSCAPE CONTRACTOR SHALL INSPECT PLANT MATERIAL. ANY PLANT MATERIAL UNDER THIS CONTRACT THAT IS DEAD OR OF AN UNSATISFACTORY GROWTH CONDITION SHALL BE REMOVED AND REPLACED IN A TIMELY FASHION BY THE LANDSCAPE CONTRACTOR. AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL REMOVE ALL TREE STALKING AT THE END OF THE WARRANTY PERIOD OR IN NO CASE LATER THAN 1 COMPLETE GROWING SEASON AFTER PLANTING.
- THE LANDSCAPE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONDUCT AN ON-SITE INSPECTION OF ALL WORK AND MATERIALS TO DETERMINE COMPLIANCE OF WORK WITH THE CONSTRUCTION DOCUMENTS.
- 7. THE LANDSCAPE CONTRACTOR SHALL WITHIN REASONABLE MEANS PROVIDE THE OWNER'S REPRESENTATIVE WITH SUFFICIENT DATA TO DEMONSTRATE COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
- THE LANDSCAPE CONTRACTOR SHALL BE NOTIFIED IN WRITING OF ANY NON-CONFORMING ITEMS, WHICH ARE TO BE CORRECTED. (PUNCH-LIST)
- THE LANDSCAPE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONDUCT AN ON SITE INSPECTION TO VERIFY COMPLETENESS OF PUNCH LIST ITEMS.
- 10. ACCEPTANCE OF WORK BY THE OWNER SHALL BEGIN UPON VERIFYING COMPLETION OF PUNCH LIST ITEMS AND RECEIPT OF ALL DELIVERABLE ITEMS TO OWNER INCLUDING LETTER OF GUARANTEE: RELEASE OF LIENS WAIVER, AS BUILT MYLAR DRAWING DENOTING DEVIATIONS FROM CONTRACT DRAWINGS, PRODUCT DATA AND MAINTENANCE GUIDE.
- 11. THE LANDSCAPE CONTRACTOR SHALL RECEIVE WRITTEN NOTIFICATION OF DATE OF FINAL ACCEPTANCE AND ENDING DATE OF REQUIRED GUARANTEE PERIODS FROM THE OWNERS REPRESENTATIVE.

TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN CONFORMING TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE PLAN SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST WEEK PRIOR TO CONSTRUCTION. THE PLAN MUST INCLUDE ALL NECESSARY SIGNS AND TRAFFIC CONTROL DEVICES REQUIRED PER THE MUTCD TO IMPLEMENT THIS CONSTRUCTION PHASING PLAN.
- 2. THE PHASING PLAN SHOWN IN THESE PLANS ARE FOR BIDDING PURPOSES ONLY. AN ALTERNATE PLAN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 3. THE BID ITEM FOR TRAFFIC CONTROL SHALL INCLUDE ALL BARRICADES, SIGNS, CONCRETE TRAFFIC BARRIERS, AND PAVEMENT MARKINGS AND SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.
- 4. PAYMENT FOR TRAFFIC CONTROL WILL BE PRO-RATED ON A MONTHLY BASIS FOR THE DURATION OF THE PROJECT.

STORM DRAINAGE NOTES

- 1. ALL STORM DRAIN BENDS AND WYE CONNECTIONS SHALL BE MADE WITH PRECAST SECTIONS, UNLESS THE ENGINEER APPROVES FIELD CONNECTIONS. ANY BEND WITH A GAP LARGER THAN 1" SHALL INCLUDE CONCRETE COLLAR. ALL PIPE SIZE CHANGES SHALL BE MADE WITH PRECAST ENLARGERS/REDUCERS, UNLESS THE ENGINEER APPROVES FIELD CONNECTIONS.
- 2. PIPE MUST BE KEPT CLEAN OF BROKEN CONCRETE, DIRT, OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
- 3. POSITIVE DRAINAGE MUST BE MAINTAINED DURING CONSTRUCTION.

EROSION & SEDIMENTATION CONTROL NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE TCEQ'S TPDES REGULATIONS CONCERNING EROSION AND SEDIMENT CONTROL.
- 2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE AND INSPECTED BY CITY OR ITS REPRESENTATIVE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THEY SHALL REMAIN IN PLACE AND FUNCTIONAL UNTIL AFTER THE PROPOSED IMPROVEMENTS ARE IN PLACE.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION AT ALL TIMES.
- SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS INDICATED ON THE PLANS PRIOR TO ANY EMBANKMENT OR EXCAVATION WORK BEING DONE. WHEN THE PROJECT IS COMPLETE AND THE ENTIRE PROJECT SITE IS COMPLETELY STABILIZED, THE SEDIMENT CONTROL DEVICES AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER. THE CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR THE EFFECTIVE CONTROL OF EROSION AND SEDIMENTATION.
- THE CONTRACTOR SHALL SEED OR SOD A COMPLETED EMBANKMENT AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 DAYS AFTER SAID EMBANKMENT IS COMPLETE.
- 6. THE SITE SHALL BE REVIEWED WEEKLY AND AFTER ANY STORM (1/4) INCH OR GREATER). ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL DEVICES SHALL BE MADE AS NEEDED.

DCTA COORDINATION NOTES:

- 1. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH DCTA BEFORE EXCAVATING AROUND RAILROAD SIGNAL MAST. CONTACT RANDY SIMON (972)-219-3749 RSIMON@CITYOFLEWISVILLE.COM
- THE CONTRACTOR SHALL CONTACT DCTA TO LOCATE SIGNAL WIRING PRIOR TO EXCAVATION IN THIS AREA.
- 3. FIRE HYDRANT TO BE RE-INSTALLED SO THAT THE SIGNAL MAST DOES NOT INTERFERE WITH THE COUPLING.

CITY OF LEWISVILLE, TX LANDSCAPE STANDARD NOTES:

- 1. A LANDSCAPE PLAN IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN ARTICLE III.4.3 AND III.4.4 SHALL BE SUBMITTED FOR:
- ALL NON-RESIDENTIAL USES;
- MULTI-FAMILY DWELLING USES;
- MIXED-USE DEVELOPMENTS; AND
- OPEN SPACE IN RESIDENTIAL SUBDIVITIONS.
- 2. REQUIRED LANDSCAPING MUST BE MAINTAINED IN A HEALTHY GROWING CONDITION AT ALL TIMES. THE PROPERTY OWNER IS RESPONSIBLE FOR REGULAR WEEDING, MOWING OF GRASS, IRRIGATING, FERTILIZING, PRUNING AND OTHER MAINTENANCE OF ALL LANDSCAPING. THE PROPERTY OWNER SHALL ALSO REPLACE DEAD AND DYING PLANT MATERIALS WITH COMPARABLE PLANT MATERIALS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS.
- 3. AN AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL LANDSCAPING AND SHALL MEET THE REQUIREMENTS IN SECTION VIII.3.3.K, BELOW.
- 4. ALL PLANT MATERIALS AND IRRIGATION SYSTEMS INSTALLED IN PUBLIC RIGHTS-OF-WAY OR ON OTHER PUBLIC PROPERTY MUST BE APPROVED IN WRITING BY THE PARKS AND RECREATION DIRECTOR AND CITY ENGINEER.
- 5. WITHIN REQUIRED CLEAR VISION AREAS AS OUTLINED IN ARTICLE IX.2.3, NO PLANT MATERIALS SHALL OBSCURE VISIBILITY AT ELEVATIONS BETWEEN TWO (2) FEET AND SEVEN (7) FEET ABOVE THE ESTABLISHED STREET GRADES.
- ALL PLANT MATERIALS SHALL BE NATIVE OR ADAPTED TO THE NORTH TEXAS CLIMATE. AND APPROPRIATE FOR XERISCAPING OR OTHER LOW-WATER USE APPLICATIONS. NO INVASIVE SPECIES MAY BE UTILIZED. A LIST OF INVASIVE SPECIES SHALL BE PROMULGATED BY THE PARKS AND RECREATION DIRECTOR AND KEPT IN THE OFFICE OF THE PLANNING DIRECTOR.
- 7. TREES AND SHRUBS SHALL BE CHOSEN FROM THE APPROVED PLANT MATERIAL LISTS PROVIDED IN SUBSECTION I, BELOW. AN ADMINISTRATIVE MODIFICATION MAY BE REQUESTED TO USE OTHER NATIVE AND ADAPTED SPECIES THAT ARE COMPARABLE TO THE SPECIES IN THE LIST.
- 8. NO MORE THAN 30 PERCENT OF REQUIRED TREES SHALL BE THE SAME SPECIES.
- WHERE A PARKING LOT OR ACCESS AISLE IS ADJACENT TO ANY LANDSCAPING, INCLUDING THE PERMEABLE AREAS AND DRIP LINES AROUND TREES AND PLANTING BEDS USED FOR VISUAL SCREENING, SUCH LANDSCAPING SHALL BE PROTECTED WITH CURB OPENINGS, WHEEL STOPS, OR SIMILAR SEMI-PERMEABLE BARRIERS. SEE EXHIBIT VIII.3.3 - 1.

CITY OF LEWISVILLE, TX PARKS AND RECREATION DESIGN STANDARD NOTES:

ALL DESIGN MUST COMPLY WITH THE CITY OF LEWISVILLE PARKS AND RECREATION DESIGN STANDARDS SET FORTH IN "PLAY LEWISVILLE CITY OF LEWISVILLE PARKS AND RECREATION DESIGN STANDARDS" UPDATED July 22, 2024. REFER TO PROJECT SPECIFICATIONS FOR REFERENCE DOCUMENT.

robish waters

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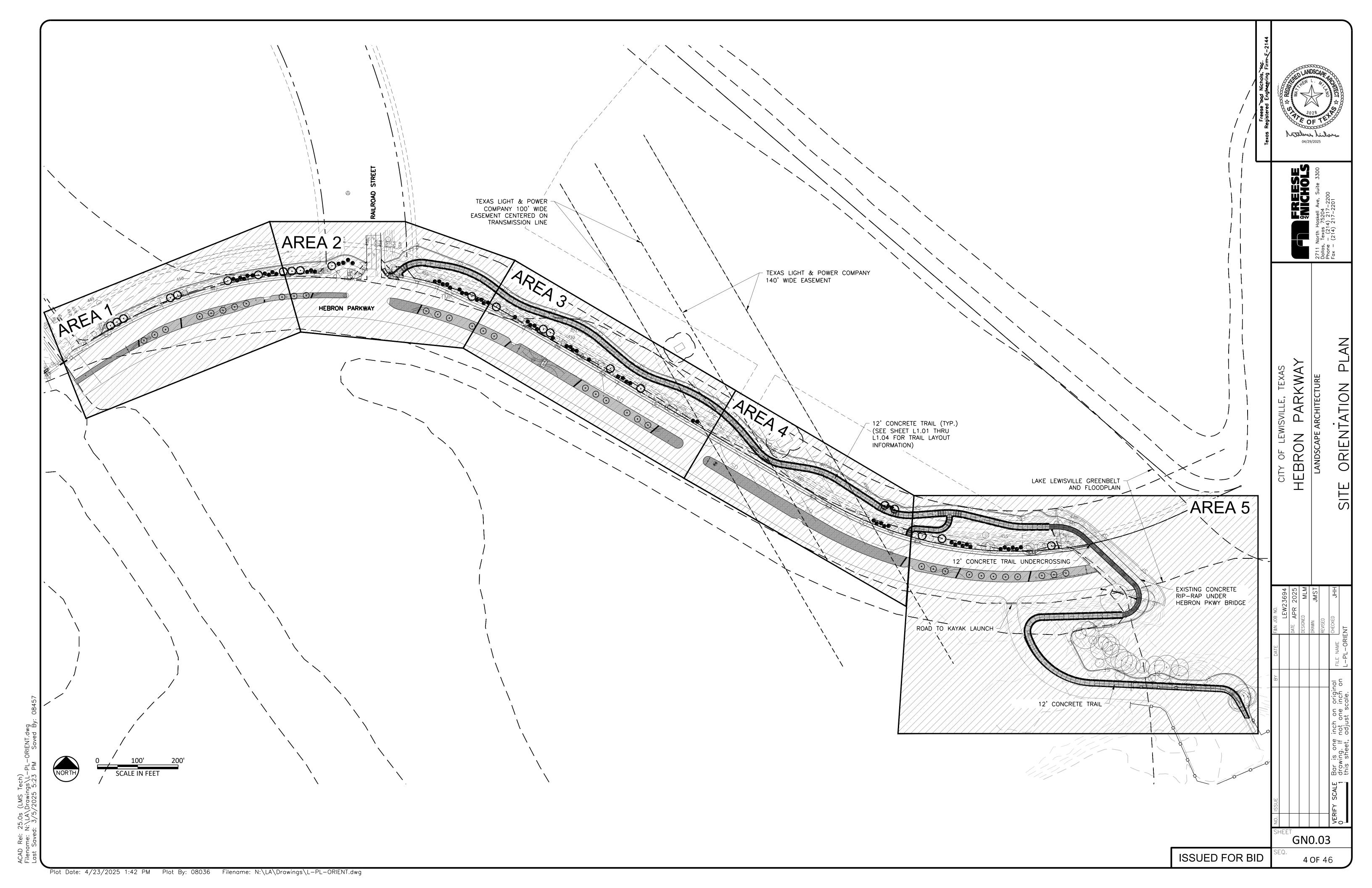
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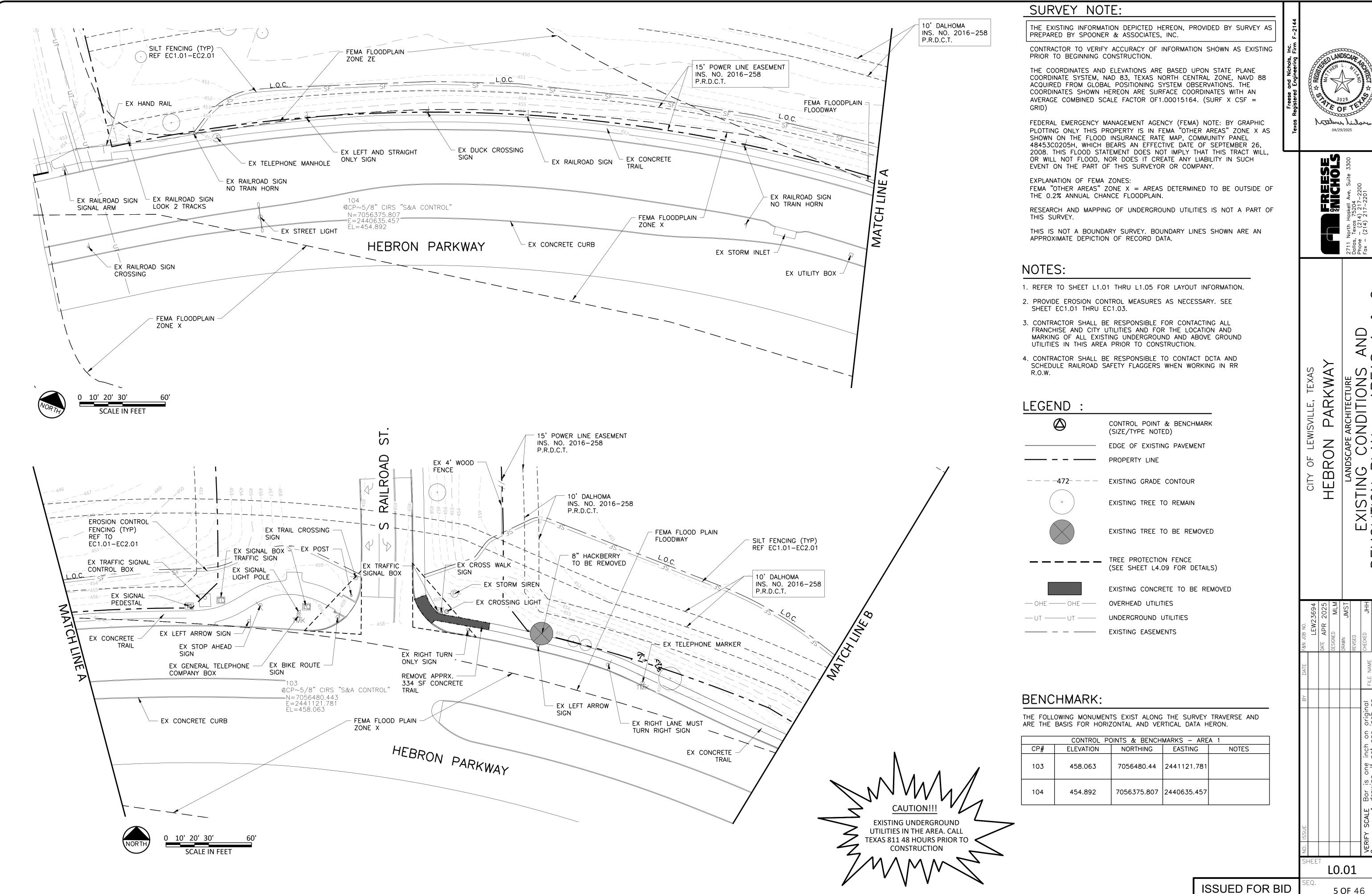
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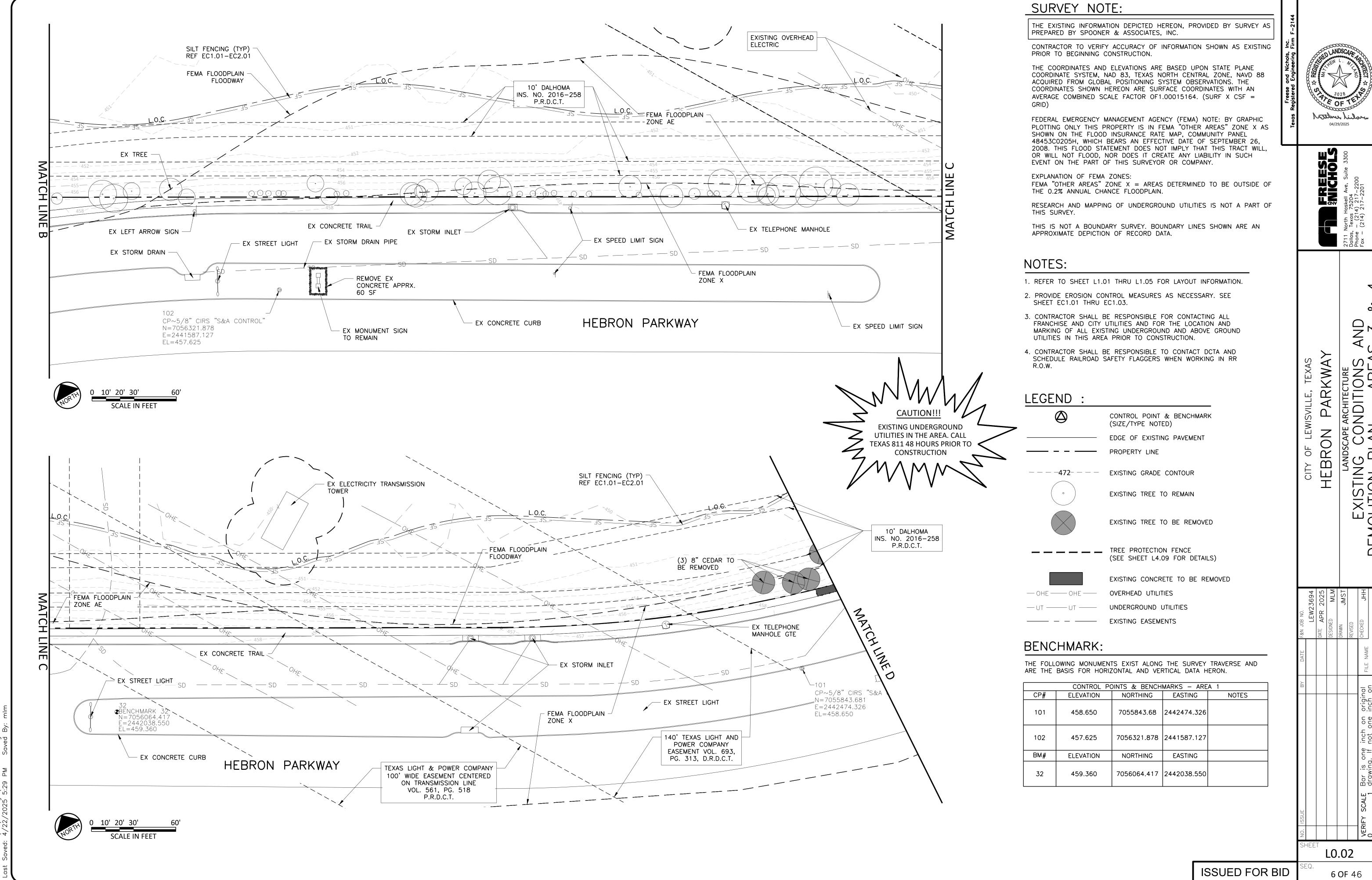




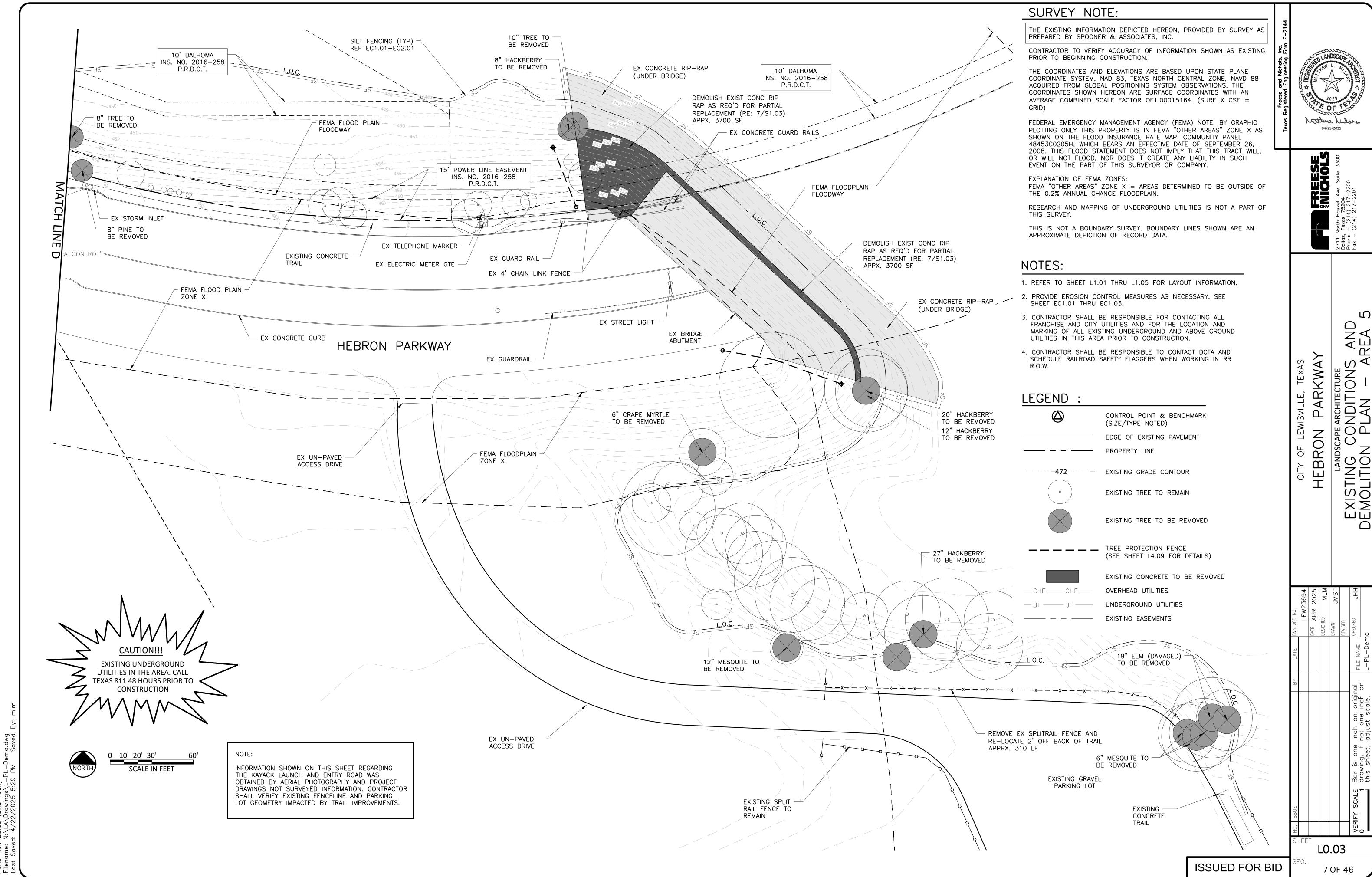
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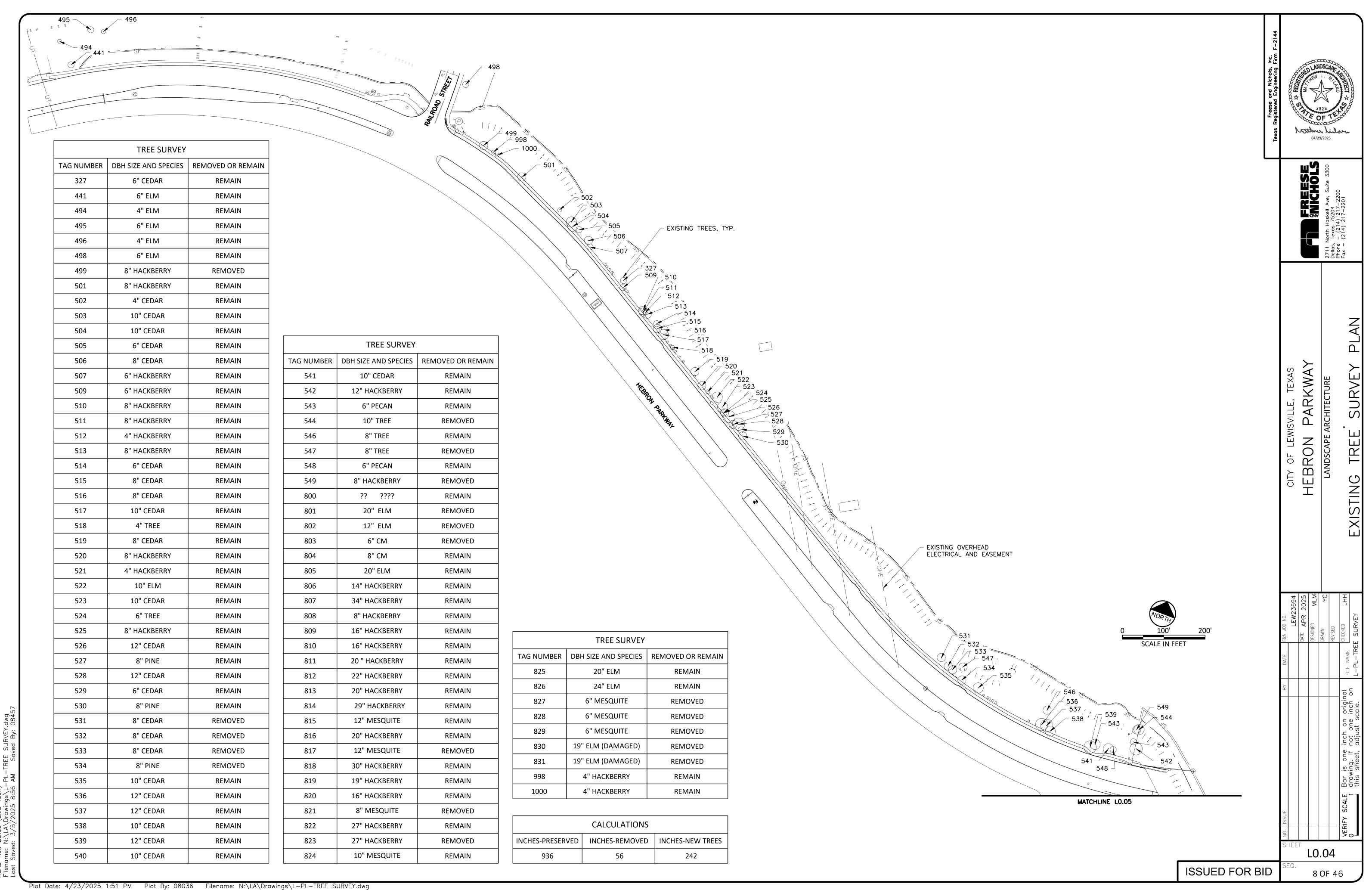
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498	6" ELM	REMAIN
499	8" HACKBERRY	REMOVED
501	8" HACKBERRY	REMAIN
502	4" CEDAR	REMAIN
503	10" CEDAR	REMAIN
504	10" CEDAR	REMAIN
505	6" CEDAR	REMAIN
506	8" CEDAR	REMAIN
507	6" HACKBERRY	REMAIN
509	6" HACKBERRY	REMAIN
510	8" HACKBERRY	REMAIN
511	8" HACKBERRY	REMAIN
512	4" HACKBERRY	REMAIN
513	8" HACKBERRY	REMAIN
514	6" CEDAR	REMAIN
515	8" CEDAR	REMAIN
516	8" CEDAR	REMAIN
517	10" CEDAR	REMAIN
518	4" TREE	REMAIN
519	8" CEDAR	REMAIN
520	8" HACKBERRY	REMAIN
521	4" HACKBERRY	REMAIN
522	10" ELM	REMAIN
523	10" CEDAR	REMAIN
524	6" TREE	REMAIN
525	8" HACKBERRY	REMAIN
526	12" CEDAR	REMAIN
527	8" PINE	REMAIN
528	12" CEDAR	REMAIN
529	6" CEDAR	REMAIN
530	8" PINE	REMAIN
531	8" CEDAR	REMOVED
532	8" CEDAR	REMOVED
533	8" CEDAR	REMOVED
534	8" PINE	REMOVED
535	10" CEDAR	REMAIN
536	12" CEDAR	REMAIN
537	12" CEDAR	REMAIN
538	10" CEDAR	REMAIN
539	12" CEDAR	REMAIN
540	10" CEDAR	REMAIN

TREE SURVEY

TAG NUMBER | DBH SIZE AND SPECIES | REMOVED OR REMAIN

REMAIN

REMAIN

REMAIN

REMAIN

REMAIN

6" CEDAR

6" ELM

4" ELM

6" ELM

4" ELM

327

441

494

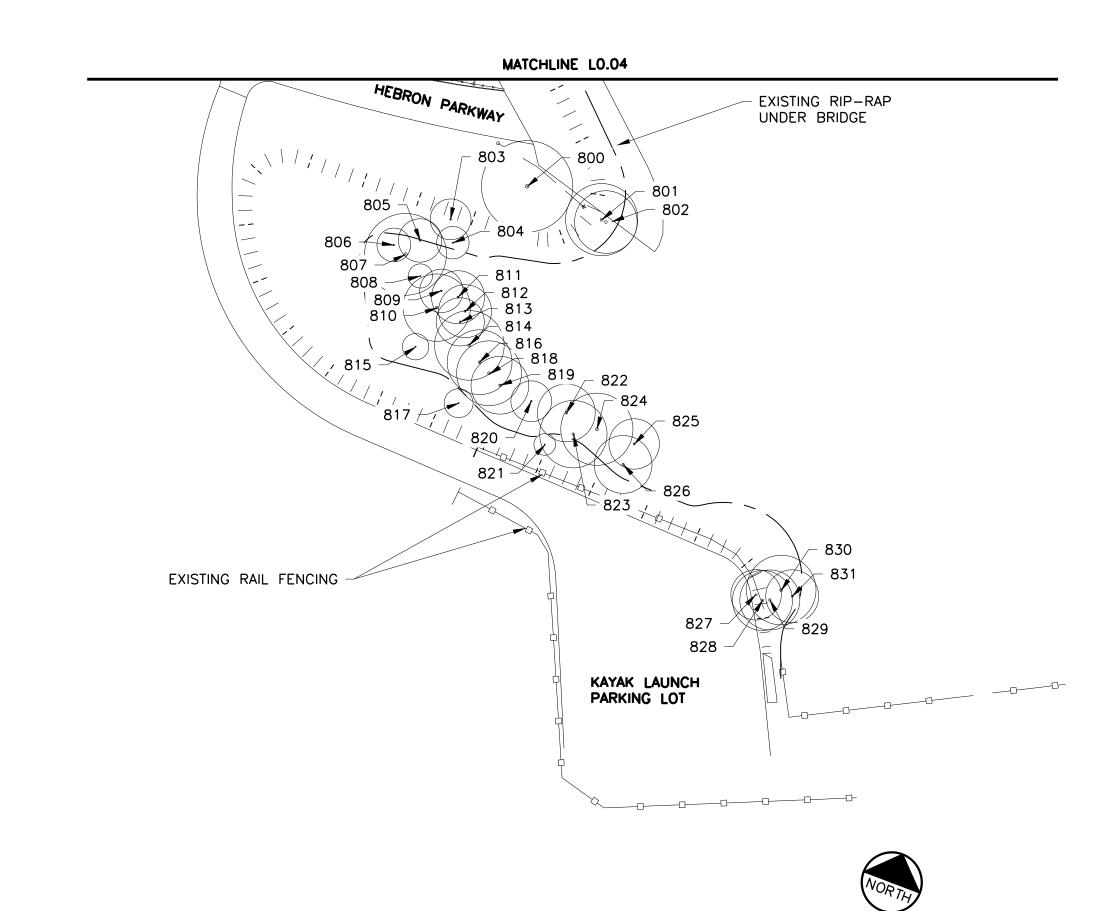
495

496

TREE SURVEY					
TAG NUMBER	DBH SIZE AND SPECIES	REMOVED OR REMAIN			
541	10" CEDAR	REMAIN			
542	12" HACKBERRY	REMAIN			
543	6" PECAN	REMAIN			
544	10" TREE REMOVED				
546	8" TREE REMAIN				
547	8" TREE	REMOVED			
548	6" PECAN	REMAIN			
549	8" HACKBERRY	REMOVED			
800	?? ????	REMAIN			
801	20" ELM	REMOVED			
802	12" ELM	REMOVED			
803	6" CM	REMOVED			
804	8" CM	REMAIN			
805	20" ELM	REMAIN			
806	14" HACKBERRY	REMAIN			
807	34" HACKBERRY	REMAIN			
808	8" HACKBERRY	REMAIN			
809	16" HACKBERRY	REMAIN			
810	16" HACKBERRY	REMAIN			
811	20 " HACKBERRY	REMAIN			
812	22" HACKBERRY	REMAIN			
813	20" HACKBERRY	REMAIN			
814	29" HACKBERRY	REMAIN			
815	12" MESQUITE	REMAIN			
816	20" HACKBERRY	REMAIN			
817	12" MESQUITE	REMOVED			
818	30" HACKBERRY	REMAIN			
819	19" HACKBERRY	REMAIN			
820	16" HACKBERRY	REMAIN			
821	8" MESQUITE	REMOVED			
822	27" HACKBERRY	REMAIN			
823	27" HACKBERRY	REMOVED			
824	10" MESQUITE	REMAIN			

TREE SURVEY						
DBH SIZE AND SPECIES	REMOVED OR REMAIN					
20" ELM	REMAIN					
24" ELM	REMAIN					
6" MESQUITE	REMOVED					
6" MESQUITE	REMOVED					
6" MESQUITE	REMOVED					
19" ELM (DAMAGED)	REMOVED					
19" ELM (DAMAGED)	REMOVED					
4" HACKBERRY	REMAIN					
4" HACKBERRY	REMAIN					
	DBH SIZE AND SPECIES 20" ELM 24" ELM 6" MESQUITE 6" MESQUITE 6" MESQUITE 19" ELM (DAMAGED) 19" ELM (DAMAGED) 4" HACKBERRY					

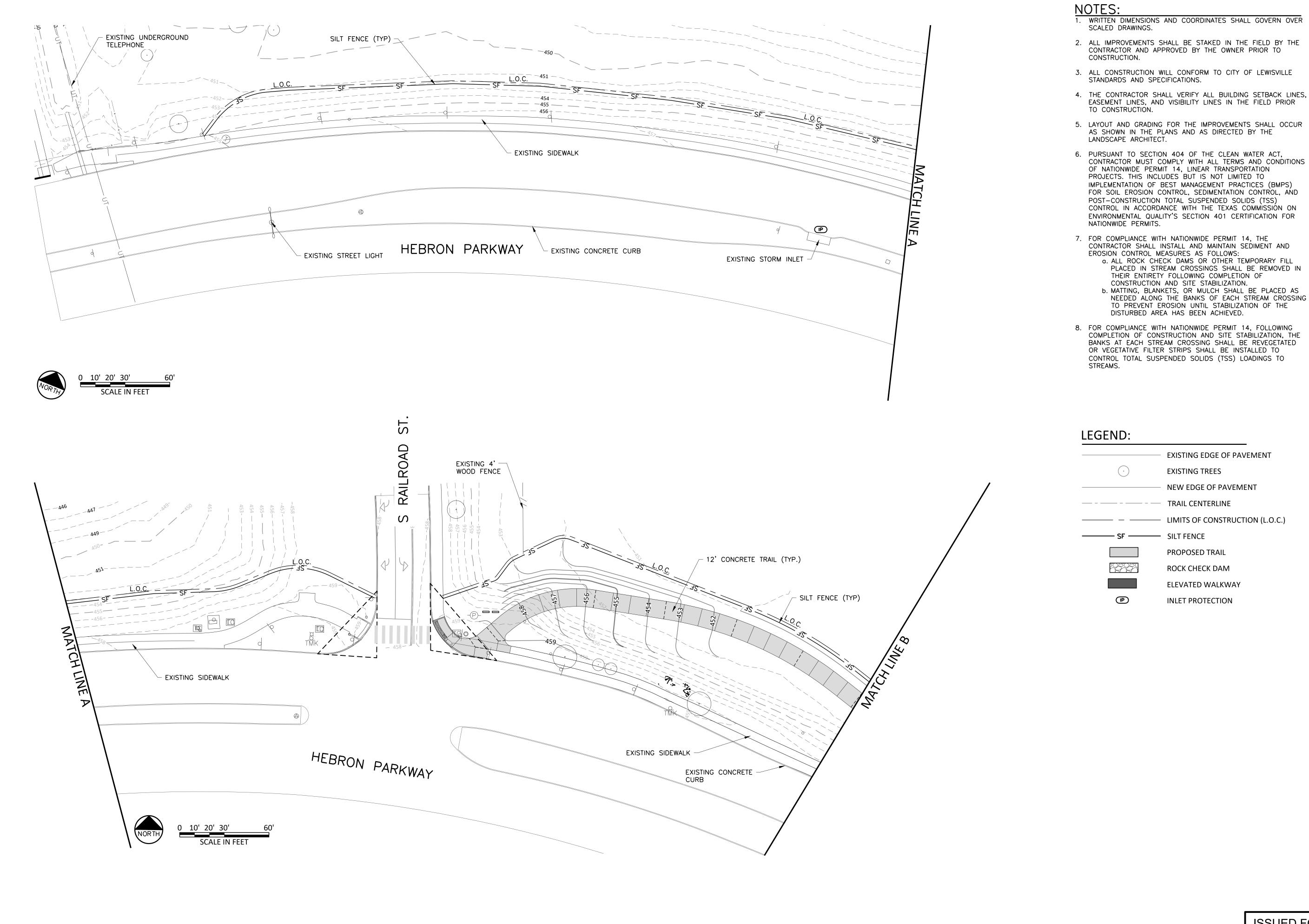
CALCULATIONS						
INCHES-PRESERVED	INCHES-REMOVED	INCHES-NEW TREES				
936	56	242				



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9 OF 46

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1. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER

- ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO
- 3. ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE
- 4. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR
- 5. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS SHOWN IN THE PLANS AND AS DIRECTED BY THE
- 6. PURSUANT TO SECTION 404 OF THE CLEAN WATER ACT, CONTRACTOR MUST COMPLY WITH ALL TERMS AND CONDITIONS OF NATIONWIDE PERMIT 14, LINEAR TRANSPORTATION PROJECTS. THIS INCLUDES BUT IS NOT LIMITED TO IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPS) FOR SOIL EROSION CONTROL, SEDIMENTATION CONTROL, AND POST-CONSTRUCTION TOTAL SUSPENDED SOLIDS (TSS) CONTROL IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S SECTION 401 CERTIFICATION FOR
- 7. FOR COMPLIANCE WITH NATIONWIDE PERMIT 14, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES AS FOLLOWS:
 - a. ALL ROCK CHECK DAMS OR OTHER TEMPORARY FILL PLACED IN STREAM CROSSINGS SHALL BE REMOVED IN THEIR ENTIRETY FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION. b. MATTING, BLANKETS, OR MULCH SHALL BE PLACED AS
- DISTURBED AREA HAS BEEN ACHIEVED. 8. FOR COMPLIANCE WITH NATIONWIDE PERMIT 14, FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BANKS AT EACH STREAM CROSSING SHALL BE REVEGETATED

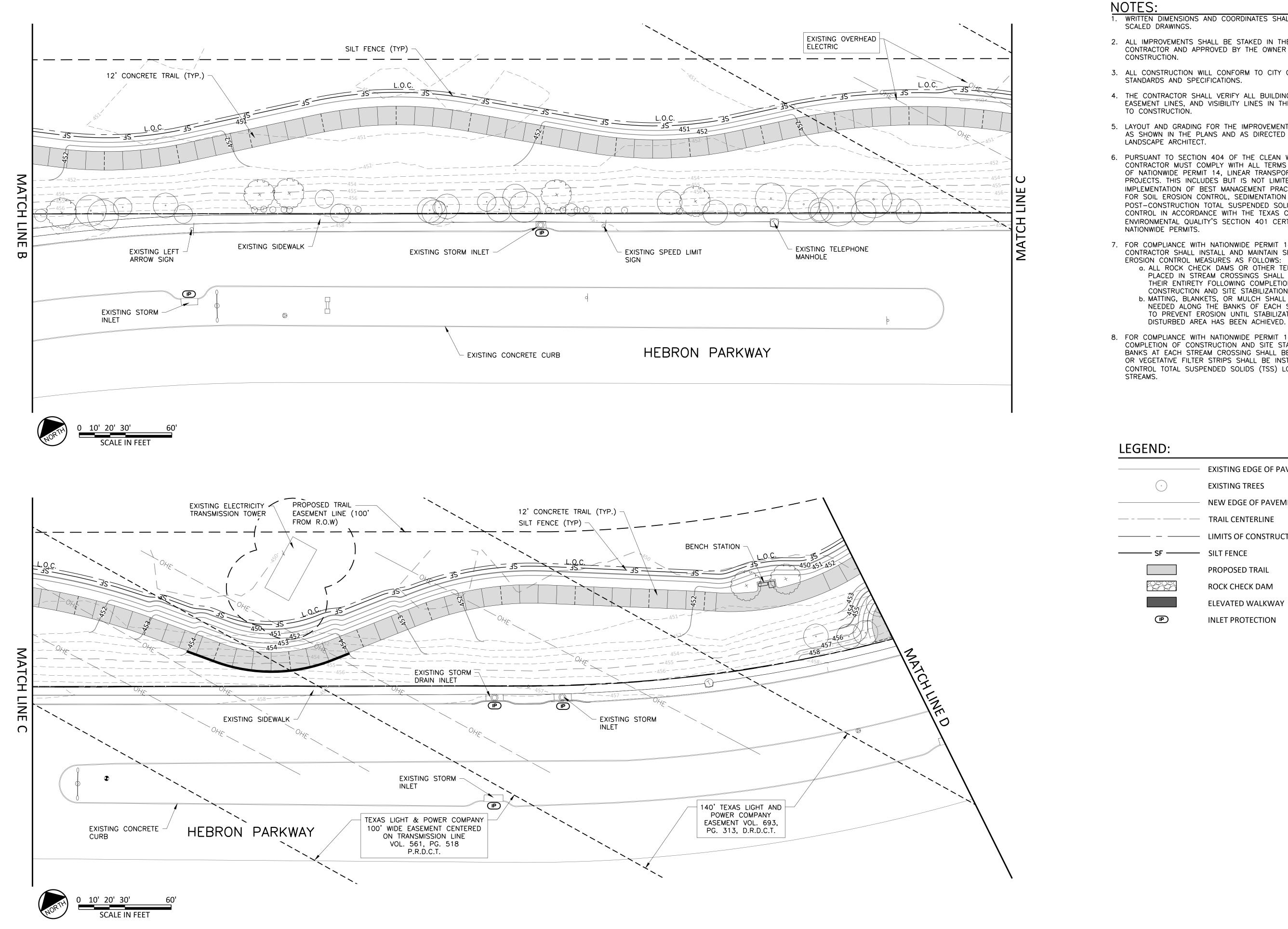
EXISTING EDGE OF PAVEMENT EXISTING TREES NEW EDGE OF PAVEMENT — - — - TRAIL CENTERLINE ——— – LIMITS OF CONSTRUCTION (L.O.C.) PROPOSED TRAIL **ROCK CHECK DAM**

wolish southers

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1. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.

2. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.

3. ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.

- 4. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 5. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS SHOWN IN THE PLANS AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 6. PURSUANT TO SECTION 404 OF THE CLEAN WATER ACT, CONTRACTOR MUST COMPLY WITH ALL TERMS AND CONDITIONS OF NATIONWIDE PERMIT 14, LINEAR TRANSPORTATION PROJECTS. THIS INCLUDES BUT IS NOT LIMITED TO IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPS) FOR SOIL EROSION CONTROL, SEDIMENTATION CONTROL, AND POST-CONSTRUCTION TOTAL SUSPENDED SOLIDS (TSS) CONTROL IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S SECTION 401 CERTIFICATION FOR NATIONWIDE PERMITS.
- 7. FOR COMPLIANCE WITH NATIONWIDE PERMIT 14, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES AS FOLLOWS: a. ALL ROCK CHECK DAMS OR OTHER TEMPORARY FILL
 - PLACED IN STREAM CROSSINGS SHALL BE REMOVED IN THEIR ENTIRETY FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION. b. MATTING, BLANKETS, OR MULCH SHALL BE PLACED AS NEEDED ALONG THE BANKS OF EACH STREAM CROSSING TO PREVENT EROSION UNTIL STABILIZATION OF THE
- 8. FOR COMPLIANCE WITH NATIONWIDE PERMIT 14, FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BANKS AT EACH STREAM CROSSING SHALL BE REVEGETATED OR VEGETATIVE FILTER STRIPS SHALL BE INSTALLED TO CONTROL TOTAL SUSPENDED SOLIDS (TSS) LOADINGS TO

EXISTING EDGE OF PAVEMENT EXISTING TREES NEW EDGE OF PAVEMENT — - — - TRAIL CENTERLINE ——— — LIMITS OF CONSTRUCTION (L.O.C.) PROPOSED TRAIL ROCK CHECK DAM **ELEVATED WALKWAY**

INLET PROTECTION

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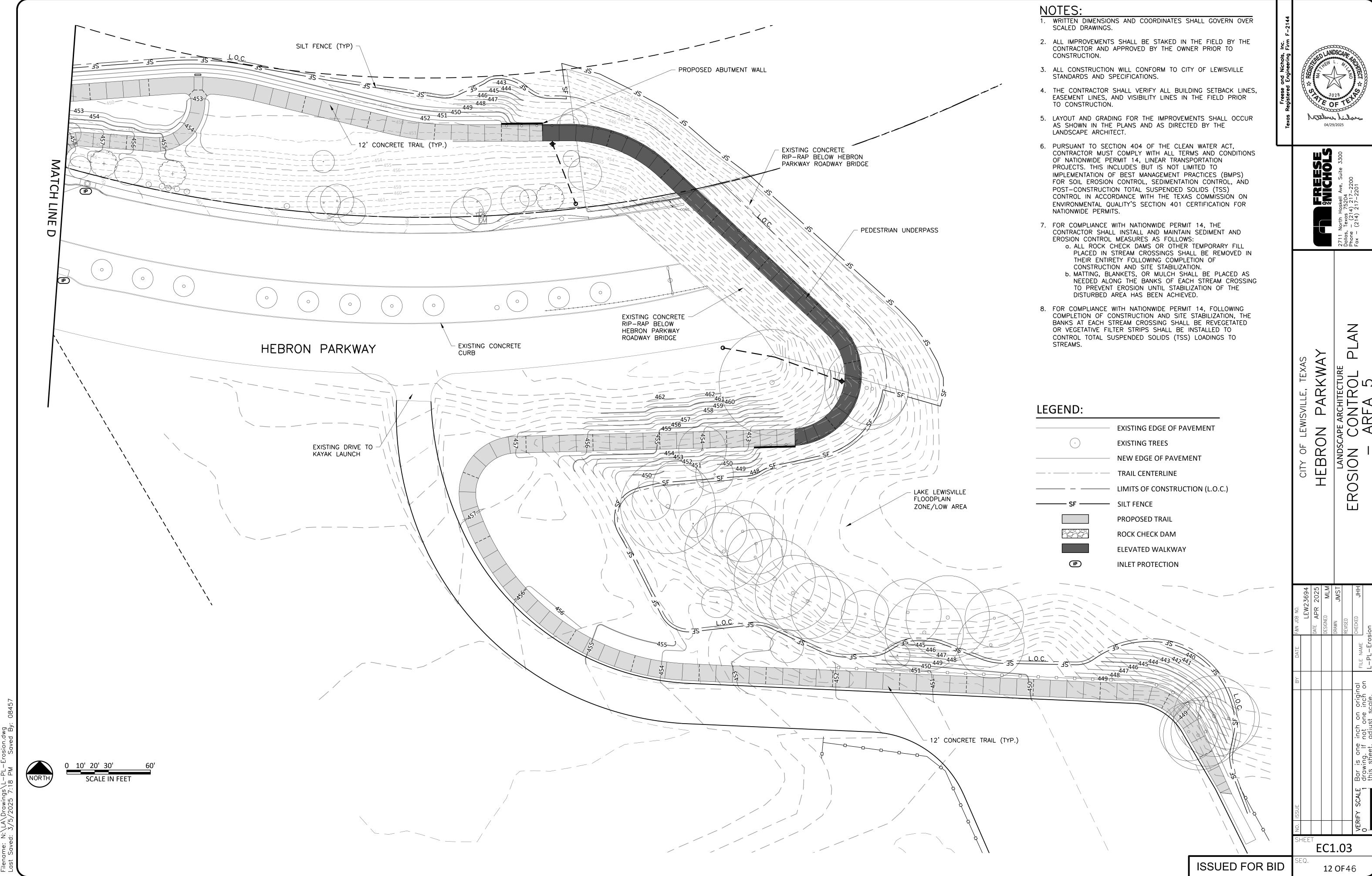


Figure 3.28 Schematics of Silt Fence

SILT FENCE

SILT FENCE (MIN HEIGHT 24" ABOVE EXIST. GROUND) .

COMPACTED EARTH

OR ROCK BACKFILL -

6" MIN STONE

OVERLAP OF

FENCE ON

EACH SIDE

1-1/2" FILTER

Silt Fence

April 2010, Revised 9/2014

STONE -

CC-151

Check Dam

Construction Controls

CC-16

Inlet Protection

FL. ELEV. INLET

TOP OF GRATE

STAKES SHALL CONFORM TO SPECIFICATIONS

1. STAKES SHALL CONFORM TO SPECIFICATIONS
SECTION 202.5.2.2
2. HEIGHT OF INLET PROTECTION SURROUNDING
THE INLET SHALL BE SHOWN ON THE PLANS AND
MUST BE CHECKED TO VERIFY PONDING WATER
WILL NOT CAUSE FLOODING OF PROPERTY OR

ONE OR MORE SIDES TOWARD THE INLET MAY REQUIRE A STONE OVERFLOW STRUCTURE TO BE CONSTRUCTED ON ONE SIDE OF THE INLET.

4. POST SHALL BE INSTALLED AT EACH CORNER AND BETWEEN CORNERS IF THE DISTANCE IS GREATER THAN 6' BETWEEN CORNER POSTS.

EC2.01

FOR CLOSURE OVERLAP ROCK BAG OR USE 1" X 4" BOARD

SECURE FILTER FABRIC TO HOGWIRE AT 2" BELOW TOP OF INLET OPENING. SECURED WITH CONCRETE NAILS O.C. (SEE DESIGN CRITERIA) **CURB INLET** CATCH BASIN HOG WIRE WEIR CURB INLET PROTECTION CROSS SECTION ROCK BAG OR USE 1" X 4" BOARD SECURED WITH CONCRETE NAILS O.C. (SEE DESIGN CRITERIA) 2" X 4" WIRE MESH AND FILTER TOP OF INLET BOX FABRIC (LEAVE 2" OPENING FROM TOP OF INLET OPENING TO TOP OF FILTER FABRIC) - 2" X 4" WIRE MESH **ROCK BAG TO PREVENT** FLOW UNDER THE HOG WIRE EXTENDS TO TOP OF INLET SECURE FILTER TO SECURE THE CONTROL FABRIC TO WIRE WITH CLIPS OR HOGRINGS_ HOG WIRE WEIR CURB INLET PROTECTION PLAN VIEW

> Figure 3.7 Schematics of Hog Wire Weir Curb Inlet Protection (Source: Modified from City of Round Rock Detail E-03)

NOTE: THIS CONTROL WILL DECREASE THE CAPACITY OF THE INLET. IT SHALL ONLY BE USED WHEN AN

ENGINEER HAS DETERMINED THERE IS ADEQUATE STORAGE OR POSITIVE OVERFLOW.

CC-93 Inlet Protection April 2010, Revised 9/2014, Updated 7/2019

April 2010, Revised 9/2014, Updated 7/2019

FILTER FABRIC DROP INLET PROTECTION CROSS SECTION (A-A)

GRATE INLET

FILTER FABRIC GRATE INLET PROTECTION CROSS SECTION (A-A)

AREA INLET PROTECTION FILTER BARRIER PLAN VIEW

Figure 3.10 Schematics of Filter Fabric Area Inlet Protection

(Source: City of Plano BMP SP-4)

TOP OF INLET (DROP OR GRATE)

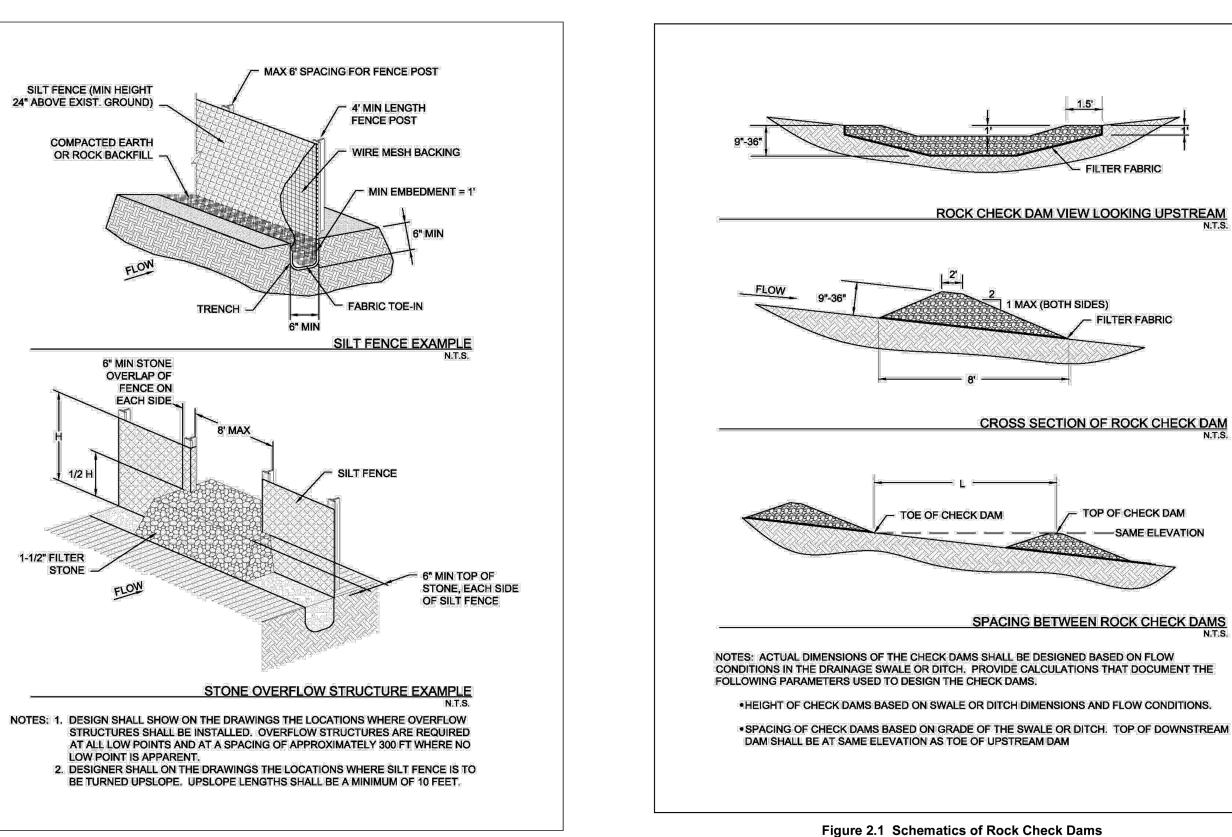
ALTERNATE CURB INLET PROTECTION FOR INLET TOP REMOVAL

NOTES:

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- 2. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
- 3. ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 5. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
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 - AND SITE STABILIZATION. b. MATTING, BLANKETS, OR MULCH SHALL BE PLACED AS NEEDED ALONG THE BANKS OF EACH STREAM CROSSING TO PREVENT EROSION UNTIL STABILIZATION OF THE

SHALL BE REMOVED IN THEIR ENTIRETY FOLLOWING COMPLETION OF CONSTRUCTION

- DISTURBED AREA HAS BEEN ACHIEVED.
- 8. FOR COMPLIANCE WITH NATIONWIDE PERMIT 14, FOLLOWING COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BANKS AT EACH STREAM CROSSING SHALL BE REVEGETATED OR VEGETATIVE FILTER STRIPS SHALL BE INSTALLED TO CONTROL TOTAL SUSPENDED SOLIDS (TSS) LOADINGS TO STREAMS.



(Source: Modified from Stormwater Management Manual for Western Washington)

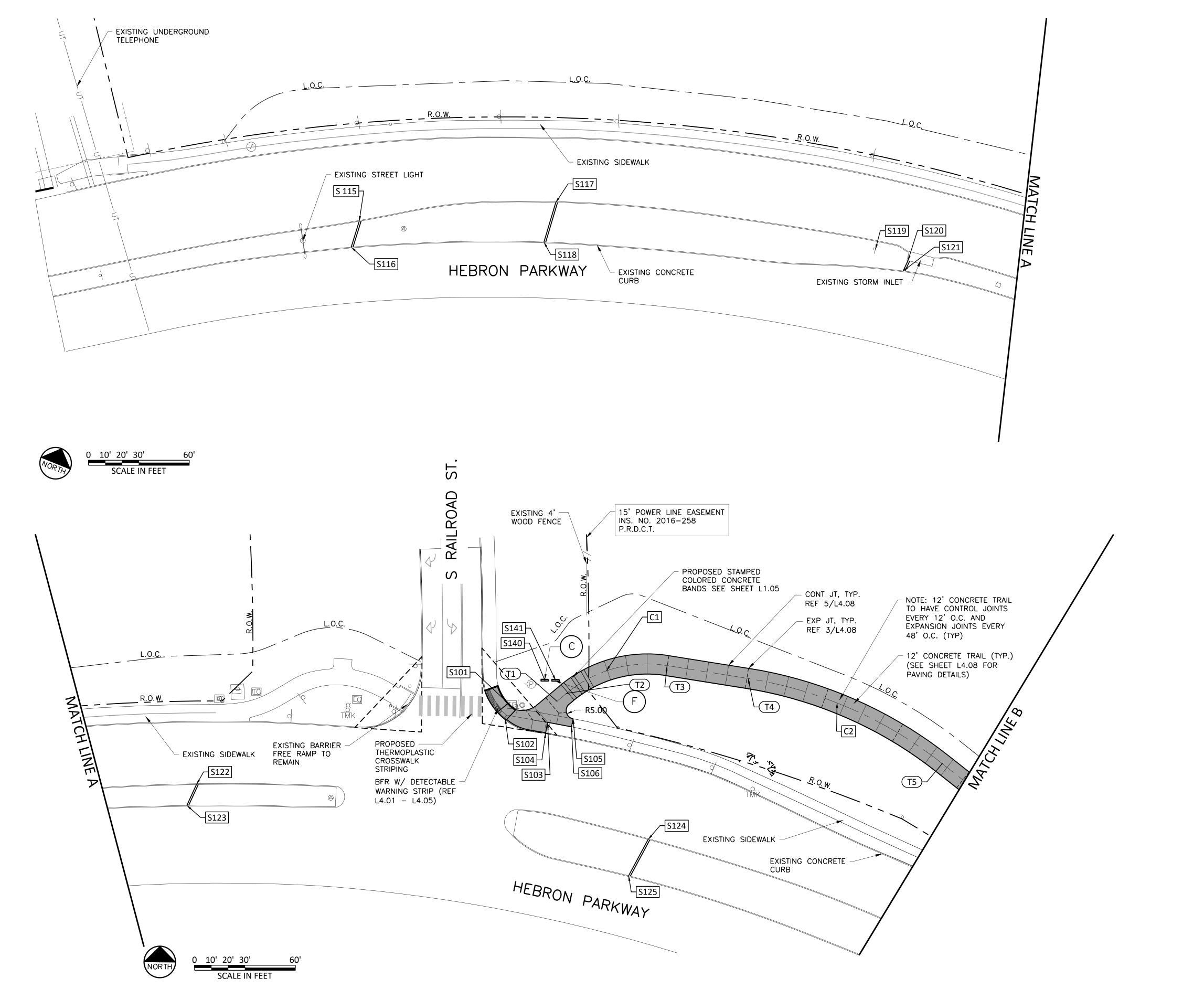
April 2010, Revised 9/2014

ROCK CHECK DAM

CURB INLET PROTECTION

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LEGEND:

EXISTING EDGE OF PAVEMENT

SITE COORDINATE

TRAIL COORDINATE

NEW EDGE OF PAVEMENT

TRAIL CENTERLINE

— LIMITS OF CONSTRUCTION

EXPANSION JOINT

CURVE DATA

CONTROL JOINT

EXISTING TREES

CONCRETE TRAIL PAVING W/ MEDIUM BROOM FINISH

NOTES:

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- 3. REFER TO SHEET LO.01 THRU LO.05 FOR BENCHMARKS AND DEMOLITION INFORMATION.
- 4. ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.
- 5. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE SPECIFIED.
- 6. ALL NORTHING AND EASTING COORDINATE POINTS ARE TO BE THE CENTERPOINT, CORNER INTERSECTION, CENTER OF POLE, FENCE POST OR SIGN AND ALONG THE DESIGNATED CENTERLINES
- 7. THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE.
- 8. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% IN THE DIRECTION OF THE DOWNHILL SIDE
 - THE LONGITUDINAL SLOPE OF THE WALKS/TRAILS SHALL BE NO GREATER THAN 4.5%
 - ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE
- 9. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 10. ALL WATER METER, IRRIGATION CONTROL, MANHOLE ADJUSTMENTS, AND STORM DRAIN INLET REPLACEMENTS ARE TO BE DONE IN ACCORDANCE WITH THE CITY OF LEWISVILLE STANDARDS.
- 11. THE TOPS OF THE EXISTING CONCRETE STORM DRAIN INLETS ARE TO BE REMOVED AND REPLACED WITH NEW CONCRETE TOPS MATCHING THE CROSS SLOPE OF THE NEW CONCRETE TRAIL PAVING (SEE SHEET L4.02 FOR DETAILS)

NOTES BY SYMBOL:

WAY FINDING SIGN: ST-106B "LEWISVILLE KAYAK LAUNCH" - RIGHT "DCTA A-TRAIN TRAIL" - LEFT

WAY FINDING SIGN ST-106 "TRAIL MAP"

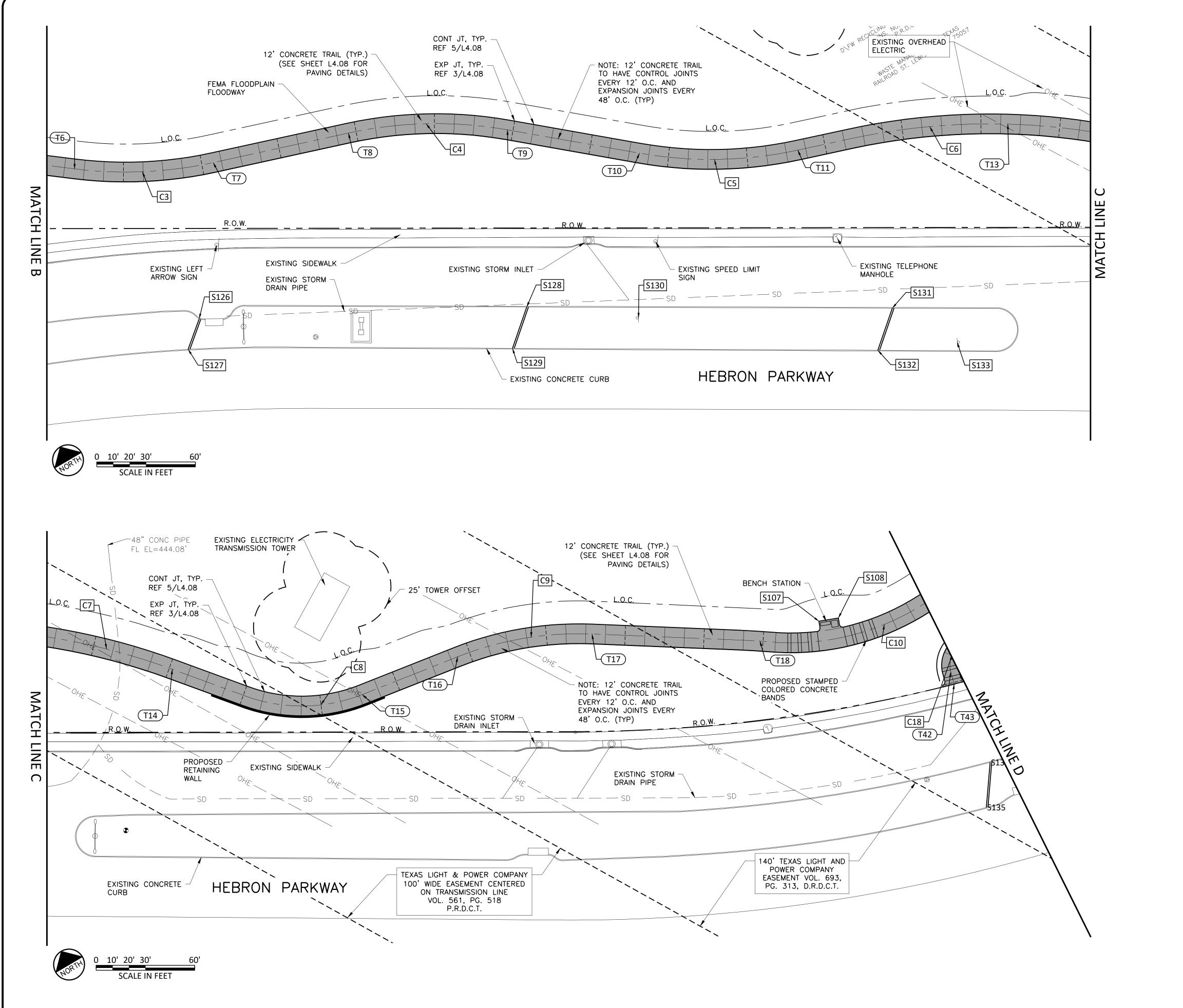
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LEGEND:

EXISTING EDGE OF PAVEMENT

SITE COORDINATE

NEW EDGE OF PAVEMENT

— — TRAIL CENTERLINE

\$101

TT01) TRAIL COORDINATE

C101 CURVE DATA

__ L.O.C. · ____ LIMITS OF CONSTRUCTION

- EXPANSION JOINT

CONTROL JOINT

W/ MEDIUM BROOM FINISH

EXISTING TREES

CONCRETE TRAIL PAVING

NOTES:

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 SLOPE OF 1.5% IN THE DIRECTION OF THE
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- ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE
- 9. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.

DOWNHILL SIDE

- 10. ALL WATER METER, IRRIGATION CONTROL, MANHOLE ADJUSTMENTS, AND STORM DRAIN INLET REPLACEMENTS ARE TO BE DONE IN ACCORDANCE WITH THE CITY OF LEWISVILLE STANDARDS.
- 11. THE TOPS OF THE EXISTING CONCRETE STORM DRAIN INLETS ARE TO BE REMOVED AND REPLACED WITH NEW CONCRETE TOPS MATCHING THE CROSS SLOPE OF THE NEW CONCRETE TRAIL PAVING (SEE SHEET L4.02 FOR DETAILS)

NOTES BY SYMBOL:

WAY FINDING SIGN: ST-106B
"LEWISVILLE KAYAK LAUNCH" - RIGHT
"DCTA A-TRAIN TRAIL" - LEFT

F WAY FINDING SIGN ST-106

STATE OF THE OF

FREESE FNICHOLS 11 North Haskell Ave, Suite 3300 Ilas, Texas 75204 one – (214) 217–2200 v = (214) 217–2201

PLAN Fox

HEBRON PARKWAY

LANDSCAPE ARCHITECTURE

TI-USE TRAIL LAYOUT

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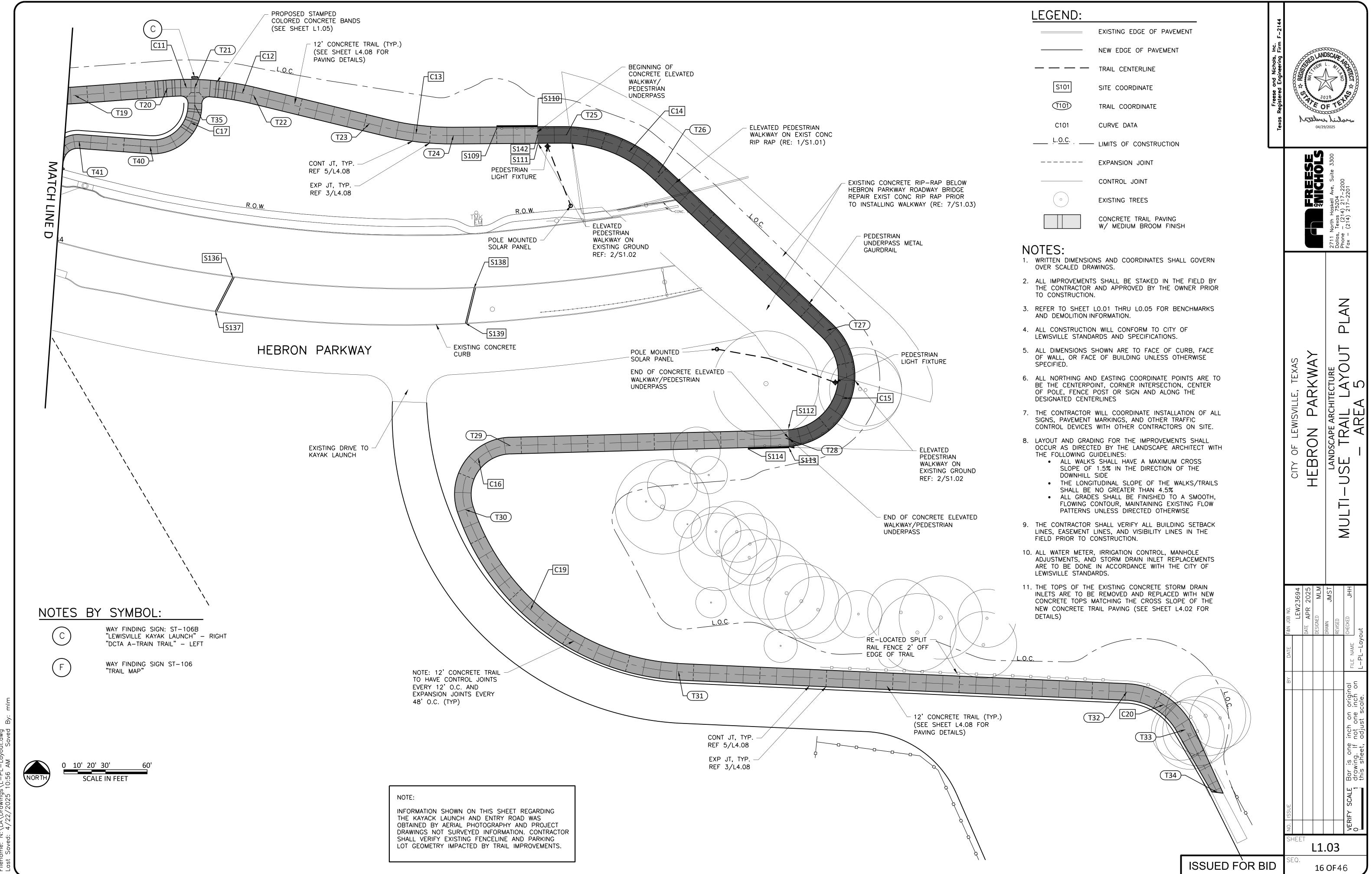
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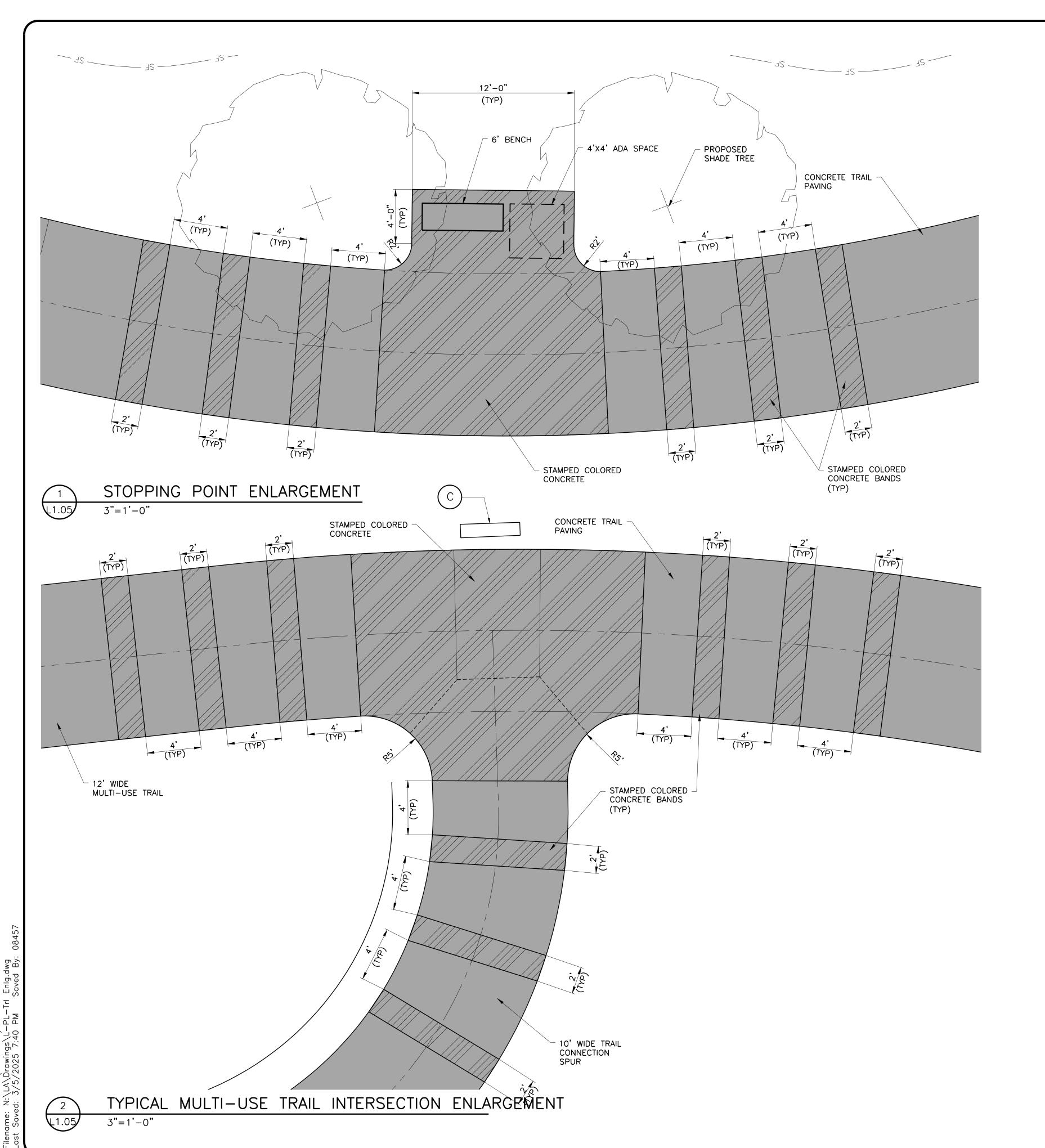
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TRAIL (CENTERLINE COOR	DINATE POINT	SIT	ΓΕ COORDINA	TE POINT
POINT	NORTHING	EASTING	PNT	NORTHING	EASTING
T1	7056539.53	2441255.82	101	7056535.37	2441229.71
T2	7056544.29	2441261.36	102	7056528.85	2441225.06
Т3	7056561.57	2441321.11	103	7056526.92	2441250.32
T4	7056554.45	2441369.51	104	7056520.69	2441249.28
T5	7056505.14	2441485.72	105	7056529.21	2441265.55
Т6	7056484.49	2441512.52	106	7056524.43	2441264.64
T7	7056444.98	2441587.17	107	7055960.06	2442466.55
Т8	7056418.72	2441667.22	108	7055955.73	2442477.74
Т9	7056371.30	2441751.62	109	7055913.33	2442836.91
T10	7056318.32	2441813.66	110	7055915.53	2442866.33
T11	7056271.05	2441897.63	111	7055901.54	2442866.43
T13	7056219.87	2442015.81	112	7055696.97	2443047.42
T14	7056134.64	2442112.65	113	7055682.97	2443047.80
T15	7056062.69	2442204.48	114	7055682.17	2443018.36
T16	7056053.02	2442266.14	115	7056370.01	2440609.22
T17	7056023.45	2442343.65	116	7056354.02	2440610.55
T18	7055967.98	2442429.54	117	7056424.21	2440713.62
T19	7055937.07	2442532.52	118	7056399.67	2440715.89
T20	7055942.08	2442599.29	119	7056469.46	2440900.68
T21	7055942.59	2442619.03	120	7056470.41	2440921.18
T22	7055936.97	2442661.54	121	7056463.67	2440920.82
T23	7055916.68	2442744.99	122	7056487.39	2441041.65
T24	7055908.10	2442805.68	123	7056474.91	2441036.08
T25	7055908.65	2442887.20	124	7056457.89	2441311.06
T26	7055881.64	2442953.60	125	7056436.18	2441299.71
T27	7055767.74	2443075.17	126	7056367.46	2441531.64
T28	7055689.92	2443045.62	127	7056354.82	2441516.38
T29	7055684.56	2442846.65	128	7056272.46	2441706.98
T30	7055638.35	2442814.44	129	7056255.23	2441686.80
T31	7055521.47	2442968.19	130	7056232.29	2441762.30
T32	7055507.04	2443291.51	131	7056159.00	2441898.38
T33	7055479.87	2443333.79	132	7056141.39	2441877.83
T34	7055434.54	2443356.99	133	7056121.04	2441921.95
T35	7055929.87	2442619.04	134	7055833.15	2442512.72
T40	7055899.95	2442586.81	135	7055810.71	2442496.84
T41	7055903.76	2442535.65	136	7055805.97	2442646.53
T42	7055892.73	2442520.06	137	7055781.51	2442634.06
T43	7055885.35	2442518.06	138	7055798.29	2442820.67
		I	139	7055772.89	2442814.41
			140	7056552.02	2441248.38
			141	7056552.02	2441254.82
			111		

142 7055908.54 2442866.38

CURVE DATA						
CURVE #	DELTA	RADIUS	ARC	TANGENT	BEARING	CHORD
C1	048°59'50"	75.00	64.14	34.18	N73° 52' 07"E	62.20
C2	029°14'52"	250.00	127.62	65.23	S67° 00' 32"E	126.24
C3	019°27'03"	250.00	84.87	42.85	S62° 06' 38"E	84.46
C4	022°19'45"	250.00	97.43	49.34	S60° 40' 17"E	96.81
C5	022°13'27"	250.00	96.97	49.10	S60° 37' 08"E	96.36
C6	032°21'45"	400.00	225.93	116.07	S55° 32' 59"E	222.94
C7	032°21'45"	400.00	225.93	116.07	S55° 32' 59"E	222.94
C8	041°43'05"	100.00	72.81	38.10	S60° 13' 39"E	71.21
C9	023°56'22"	200.00	83.56	42.40	S69° 07' 01"E	82.96
C10	039°28'51"	150.00	103.36	53.83	S74° 33' 14"E	101.33
C11	017°57'58"	200.00	62.71	31.62	S85° 18' 40"E	62.46
C12	017°57'58"	200.00	62.71	31.62	S85° 18' 40"E	62.46
C13	014°05'03"	200.00	49.16	24.71	S83° 22' 12"E	49.04
C14	043°32'49"	100.00	76.00	39.94	S68° 38' 19"E	74.19
C15	135°19'27"	45.00	106.28	109.51	S20° 47' 48"W	83.25
C16	107°09'33"	35.00	65.46	47.44	S34° 52' 45"W	56.33
C17	094°15'22"	30.00	49.35	32.32	N47° 07' 41"E	43.97
C18	079°03'56"	15.00	20.70	12.38	N54° 43' 24"E	19.10
C19	068°16'36"	172.08	205.06	116.67	S52° 45' 30"E	193.14
C20	060°20'31"	50.00	52.66	29.07	S57° 16' 21"E	50.26



LEGEND:

EXISTING EDGE OF PAVEMENT

NEW EDGE OF PAVEMENT

---- TRAIL CENTERLINE

SITE COORDINATE

TRAIL COORDINATE

CURVE DATA

— LIMITS OF CONSTRUCTION

EXPANSION JOINT

CONTROL JOINT

CONCRETE TRAIL PAVING

EXISTING TREES

(ALL INSTANCES)

STAMPED/COLORED CONCRETE

W/ MEDIUM BROOM FINISH

NOTES:

- 1. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
- 2. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
- 3. REFER TO SHEET LO.01 THRU LO.03 FOR BENCHMARKS AND DEMOLITION INFORMATION.
- 4. ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.
- 5. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE SPECIFIED.
- 6. ALL NORTHING AND EASTING COORDINATE POINTS ARE TO BE THE CENTERPOINT, CORNER INTERSECTION, CENTER OF POLE, FENCE POST OR SIGN AND ALONG THE DESIGNATED CENTERLINES
- 7. THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON
- 8. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
 - ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% IN THE DIRECTION OF THE DOWNHILL SIDE
 - THE LONGITUDINAL SLOPE OF THE WALKS/TRAILS SHALL BE NO GREATER THAN 4.5%
 - ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE
- 9. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 10. REFER TO SHEETS L4.06 AND L4.08 FOR DETAILS RELATED TO SITE FURNISHINGS, AND TRAILHEAD COMPONENTS.
- 11. STAMPED COLORED CONCRETE SHALL BE 'LITHOTEX' PAVECRAFTERS FRACTURED EARTH EMBOSING SKIN WITH 'LITHOCHROME' COLOR HARDENER A-55 PECAN TAN ACCENTED BY A-29 TERRA COTTA. RELEASE AGENT SHALL BE 'LITHOCHROME' ANTIQUING RELEASE 1101 CLASSIC GRAY. ALL BY L.M. SCOFIELD. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 12. CONTRACTOR SHALL BUILD A 2'X12' MOCKUP OF THE STAMPED COLORED CONCRETE INSTALLATION ON SITE FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTES BY SYMBOL:

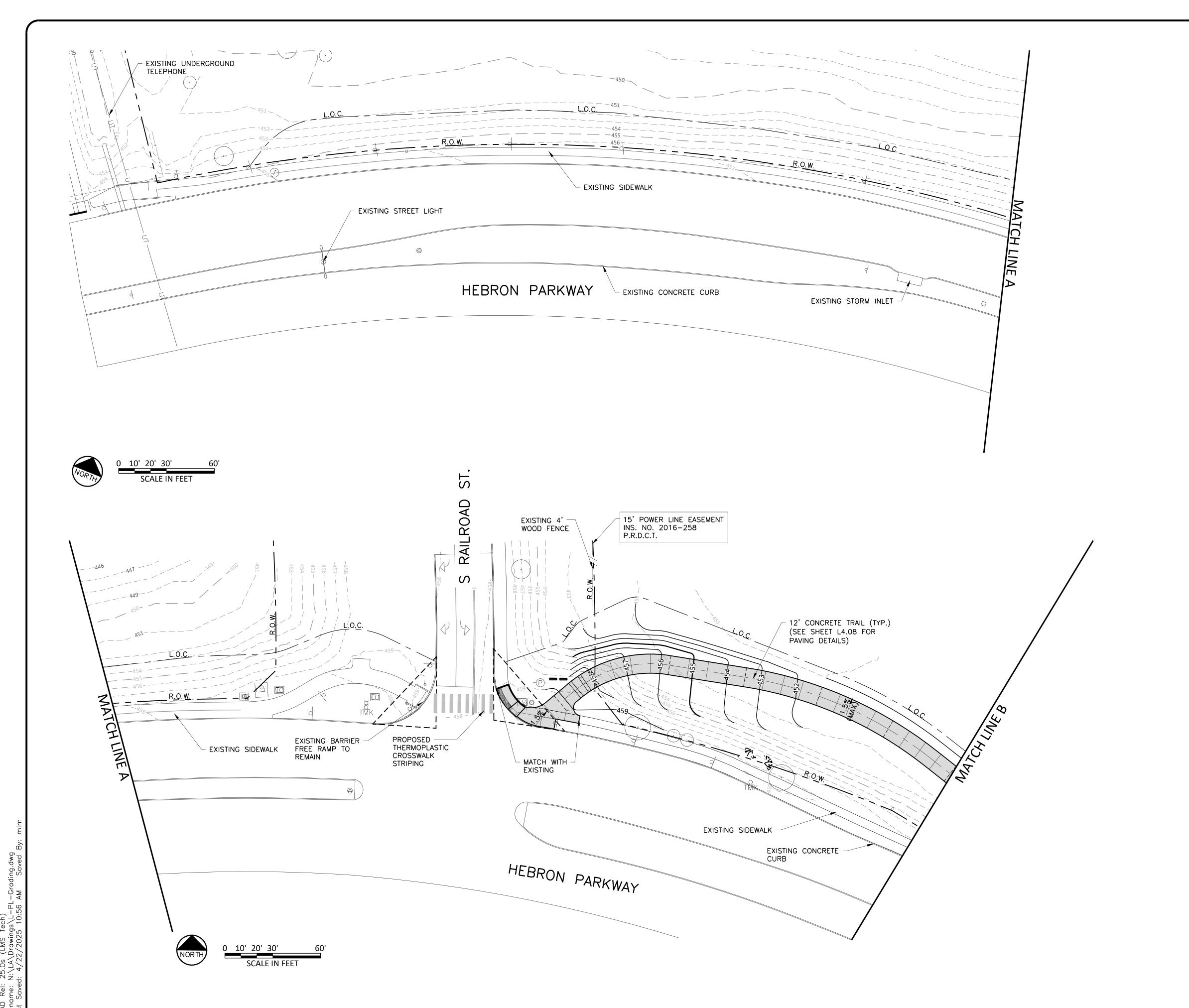
WAY FINDING SIGN: ST-106B "LEWISVILLE KAYAK LAUNCH" - RIGHT "DCTA A-TRAIN TRAIL" - LEFT

WAY FINDING SIGN ST-106 "TRAIL MAP"

L1.05

18 OF 46

ISSUED FOR BID



NOTES

1. STRIP TOPSOIL TO A DEPTH NOT TO EXCEED 6" STOCKPILE AND REDISTRIBUTE TO GRADED AREAS ONCE ROUGH GRADING OPERATIONS ARE COMPLETE. STOCKPILE AREA TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO GRADING.

2. ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES. THE PROPOSED PAVING IS SHOWN TO FINISHED GRADE AND THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATIONS FOR IMPROVEMENTS AS PART OF OVERALL MASS GRADING.

3. ALL LAND FORMS AND SWALES SHALL BE GRADED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LAND FORM CONTINUITY.

4. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL CLEARED BRUSH, DEBRIS, ETC. FROM WITHIN THE LIMITS OF CONSTRUCTION. DISPOSE OF MATERIAL OFF SITE.

5. EXISTING TREES WHICH ARE TO BE PRESERVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONSTRUCTION EQUIPMENT SHALL NOT OPERATE, PARK OR BE STOPPED UNDER THE CANOPIES OF EXISTING TREES. CONTRACTOR SHALL NOT STORE SUPPLIES/EQUIPMENTS WITHIN TREE PROTECTION FENCING.

6. WHEN CLEARING FOR GRADING, THE CONTRACTOR SHALL COORDINATE TREE PRESERVATION WITH CITY FORESTER.

7. ANY TREE REMOVAL OR PRUNING SHALL BE APPROVED BY CITY FORESTER. SEE TREE DAMAGE ASSESSMENT NOTE ON SHEET GNO.02.

8. GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:

- ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% IN THE DIRECTION OF THE DOWNHILL SIDE
- THE LONGITUDINAL SLOPE OF THE WALKS/TRAILS SHALL BE NO GREATER THAN 4.5%
- ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE

9. REFER TO SHEET LO.01 THRU LO.05 FOR SURVEY, BENCHMARKS, DEMOLITION, EXISTING TREE REMOVAL AND CLEARING.

10. REFER TO SHEET L1.01 THRU L1.05 FOR LAYOUT INFORMATION.

11. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND MARKING OF ALL EXISTING UNDERGROUND OR ABOVE GROUND UTILITIES WITHIN THE PROJECT AREA.

LEGEND:

-603- EXISTING GRADE CONTOUR

FINISH GRADE CONTOUR FINISH SPOT GRADE

EXISTING SEWER MANHOLE

—— — LIMITS OF CONSTRUCTION (L.O.C.)

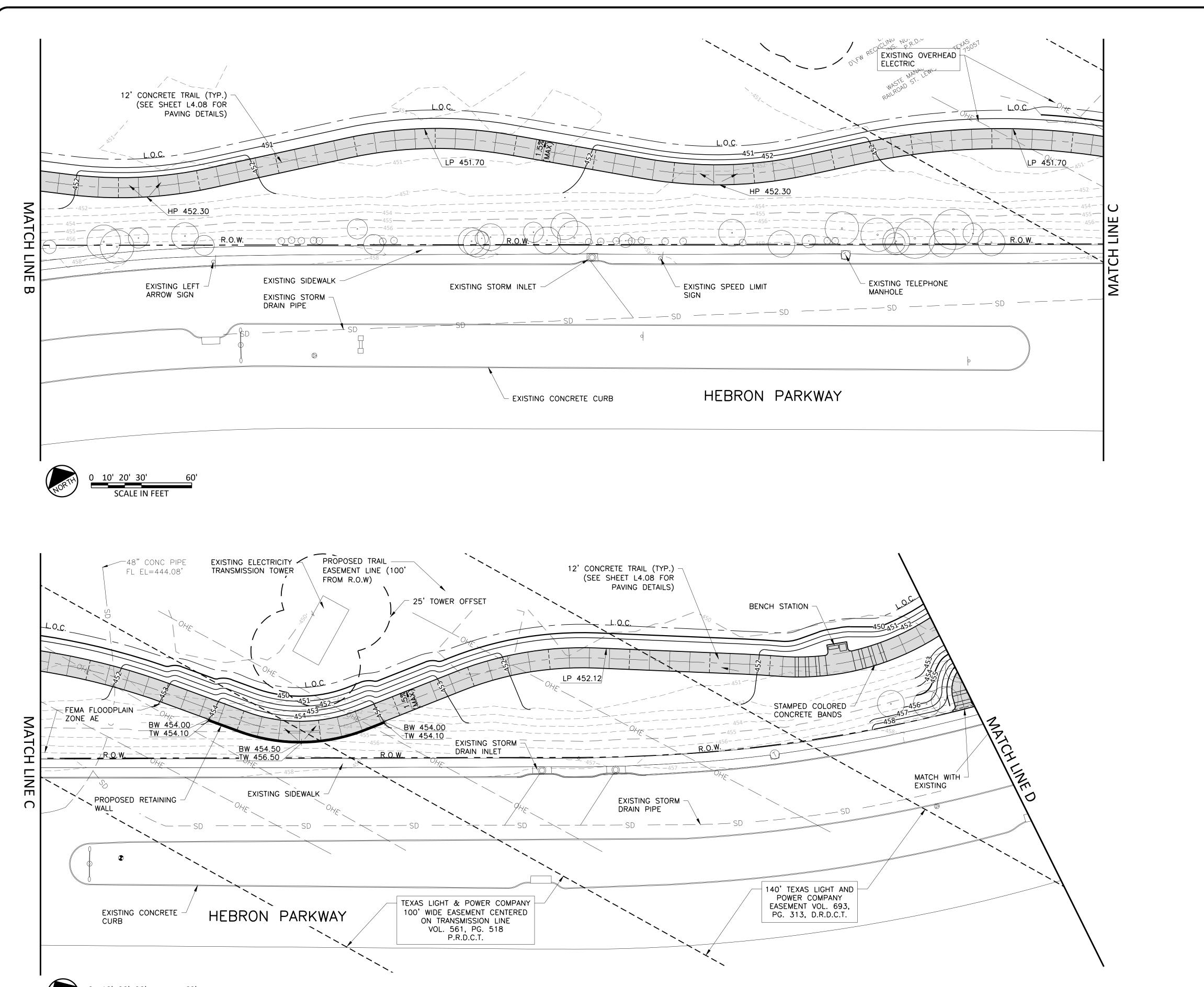
walish southers

ARKWAY

ISSUED FOR BID

19 OF 46

L2.01



NOTES

1. STRIP TOPSOIL TO A DEPTH NOT TO EXCEED 6" STOCKPILE AND REDISTRIBUTE TO GRADED AREAS ONCE ROUGH GRADING OPERATIONS ARE COMPLETE. STOCKPILE AREA TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO GRADING.

2. ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES. THE PROPOSED PAVING IS SHOWN TO FINISHED GRADE AND THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATIONS FOR IMPROVEMENTS AS PART OF OVERALL MASS GRADING.

3. ALL LAND FORMS AND SWALES SHALL BE GRADED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL LAND FORM CONTINUITY.

4. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL CLEARED BRUSH, DEBRIS, ETC. FROM WITHIN THE LIMITS OF CONSTRUCTION. DISPOSE OF MATERIAL OFF SITE.

5. EXISTING TREES WHICH ARE TO BE PRESERVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONSTRUCTION EQUIPMENT SHALL NOT OPERATE, PARK OR BE STOPPED UNDER THE CANOPIES OF EXISTING TREES. CONTRACTOR SHALL NOT STORE SUPPLIES/EQUIPMENTS WITHIN TREE PROTECTION FENCING.

6. WHEN CLEARING FOR GRADING, THE CONTRACTOR SHALL COORDINATE TREE PRESERVATION WITH CITY FORESTER.

7. ANY TREE REMOVAL OR PRUNING SHALL BE APPROVED BY CITY FORESTER. SEE TREE DAMAGE ASSESSMENT NOTE ON SHEET GNO.02.

8. GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES: ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF

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LEGEND:

EXISTING GRADE CONTOUR FINISH GRADE CONTOUR FINISH SPOT GRADE

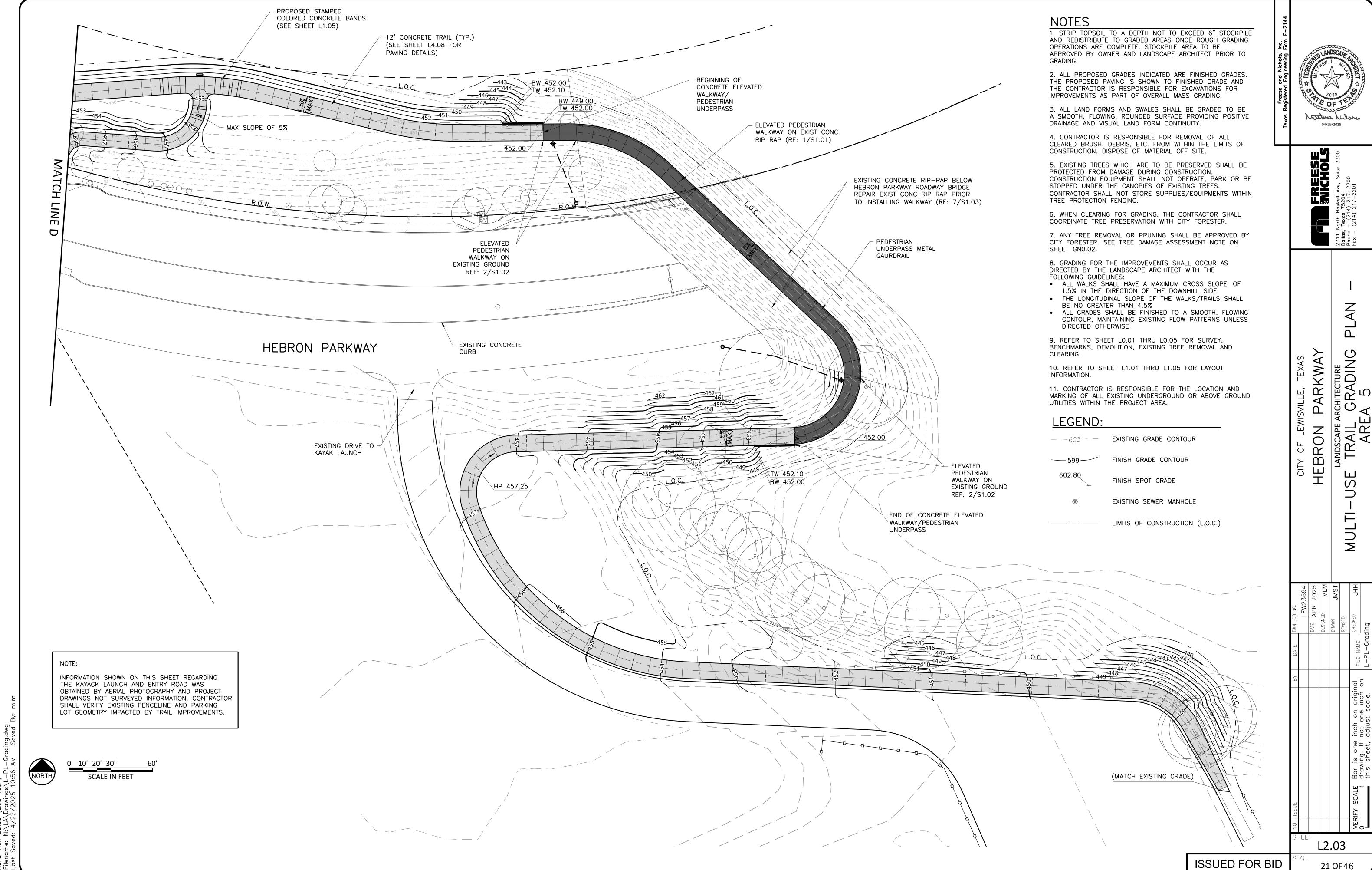
LIMITS OF CONSTRUCTION (L.O.C.)

EXISTING SEWER MANHOLE

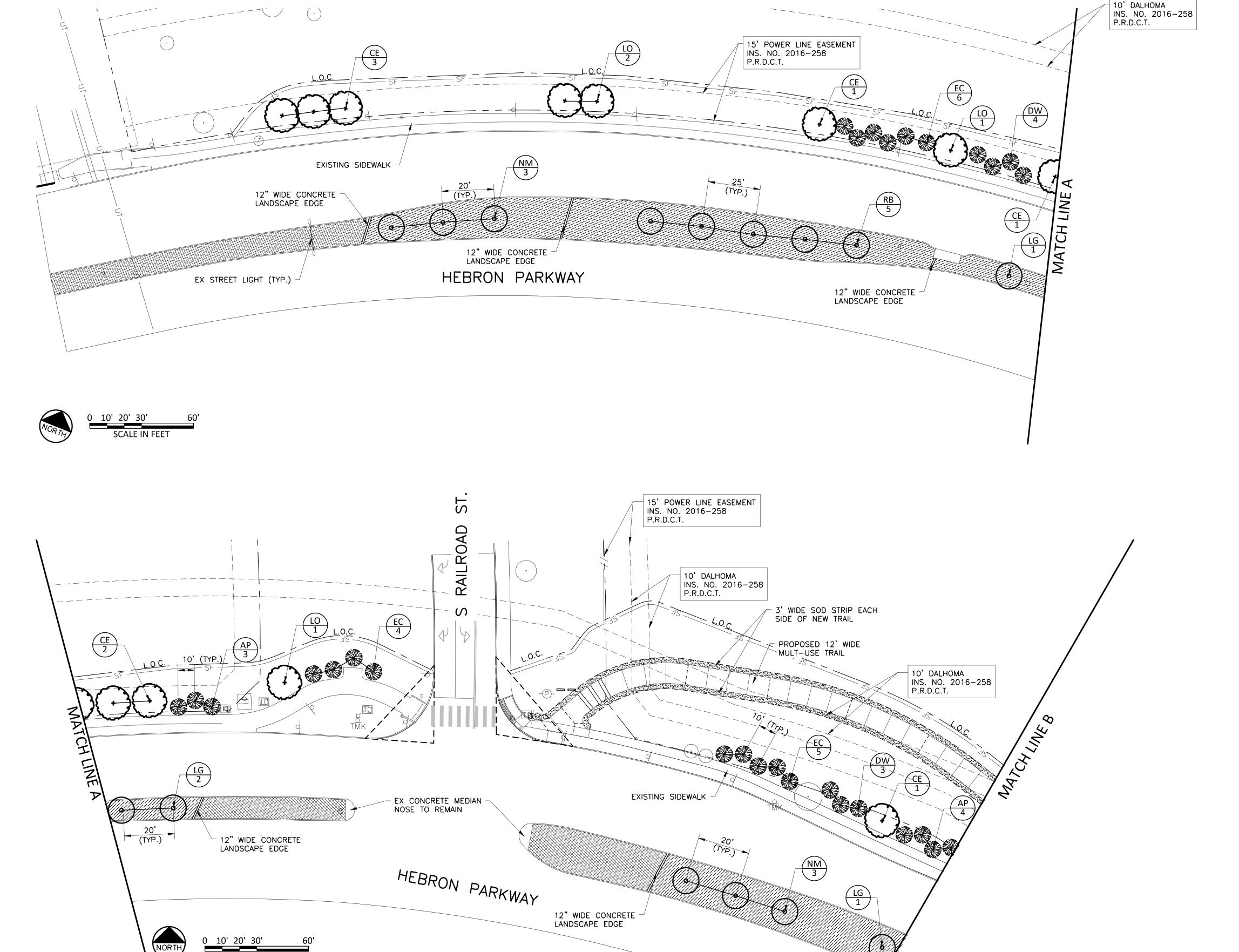
walish southers

L2.02

ISSUED FOR BID



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SYMBOL:



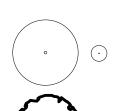
TREE SPECIES ABBREVIATION (SEE PLANT LIST FOR TREE DESCRIPTIONS)

QUANTITY

NOTES:

- 1. ALL PLANT MATERIAL LOCATIONS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO INSTALLATION.
- 2. FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE SODDED OR HYDROMULCHED. FINE GRADING SHALL INCLUDE THE REMOVAL OF VEGETATION DEBRIS, ROCKS, ETC. FROM THE SITE.
- 3. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL VERIFY LOCATIONS OF AND PROTECT ALL UTILITIES IN THE FIELD PRIOR TO COMMENCEMENT OF WORK.
- 5. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.
- 6. GRASSING QUANTITIES ARE APPROXIMATE AND CONTRACTOR IS RESPONSIBLE FOR ALL AREAS DESIGNATED ON PLANS, INCLUDING ALL DISTURBED AREAS DUE TO CONSTRUCTION.
- 7. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF BERMUDA GRASS IN ALL DISTURBED AREAS DUE TO CONSTRUCTION NOT OTHERWISE REQUIRED TO HAVE OTHER PLANT MATERIAL.
- 8. SEE SHEET L5.03 FOR PLANT LIST.
- 9. SEE SHEET L5.01 & L5.02 FOR PLANTING DETAILS

LEGEND:



EXISTING TREE \ SHRUB TO REMAIN



PROPOSED SHADE TREE (3" CAL.)



PROPOSED SMALL ORNAMENTAL TREE (2" CAL)



EVERGREEN SCREENING TREE (2"

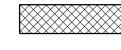




HYDROMULCH - "NATIVE TRAIL MIX" BY NATIVE AMERICAN SEED



HYDROMULCH - "THUNDER TURF" BY NATIVE AMERICAN SEED



HYDROMULCH - "POLLINATOR ESSENTIAL MIX" BY NATIVE AMERICAN

SOLID SOD - BUFFALO GRASS

(FOR EROSION CONTROL)

walish southers

FREESE

()LAND: RFAS A A NO O

N N N

L3.01

22 OF 46

ISSUED FOR BID

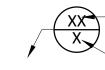
SCALE IN FEET

TEXAS LIGHT & POWER COMPANY 100' WIDE EASEMENT CENTERED

ON TRANSMISSION LINE VOL. 561, PG. 518 P.R.D.C.T.

PG. 313, D.R.D.C.T.

SYMBOL:



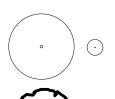
TREE SPECIES ABBREVIATION (SEE PLANT LIST FOR TREE DESCRIPTIONS)

QUANTITY

NOTES:

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- 3. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
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- 8. SEE SHEET L5.03 FOR PLANT LIST.
- 9. SEE SHEET L5.01 & L5.02 FOR PLANTING DETAILS

LEGEND:



EXISTING TREE \ SHRUB TO REMAIN



PROPOSED SHADE TREE (3" CAL.)



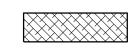
PROPOSED SMALL ORNAMENTAL TREE (2" CAL)



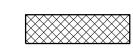
EVERGREEN SCREENING TREE (2"



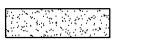
HYDROMULCH - "NATIVE TRAIL MIX" BY NATIVE AMERICAN SEED



HYDROMULCH - "THUNDER TURF" BY NATIVE AMERICAN SEED



HYDROMULCH - "POLLINATOR ESSENTIAL MIX" BY NATIVE AMERICAN



SOLID SOD - BUFFALO GRASS (FOR EROSION CONTROL)

walish southers

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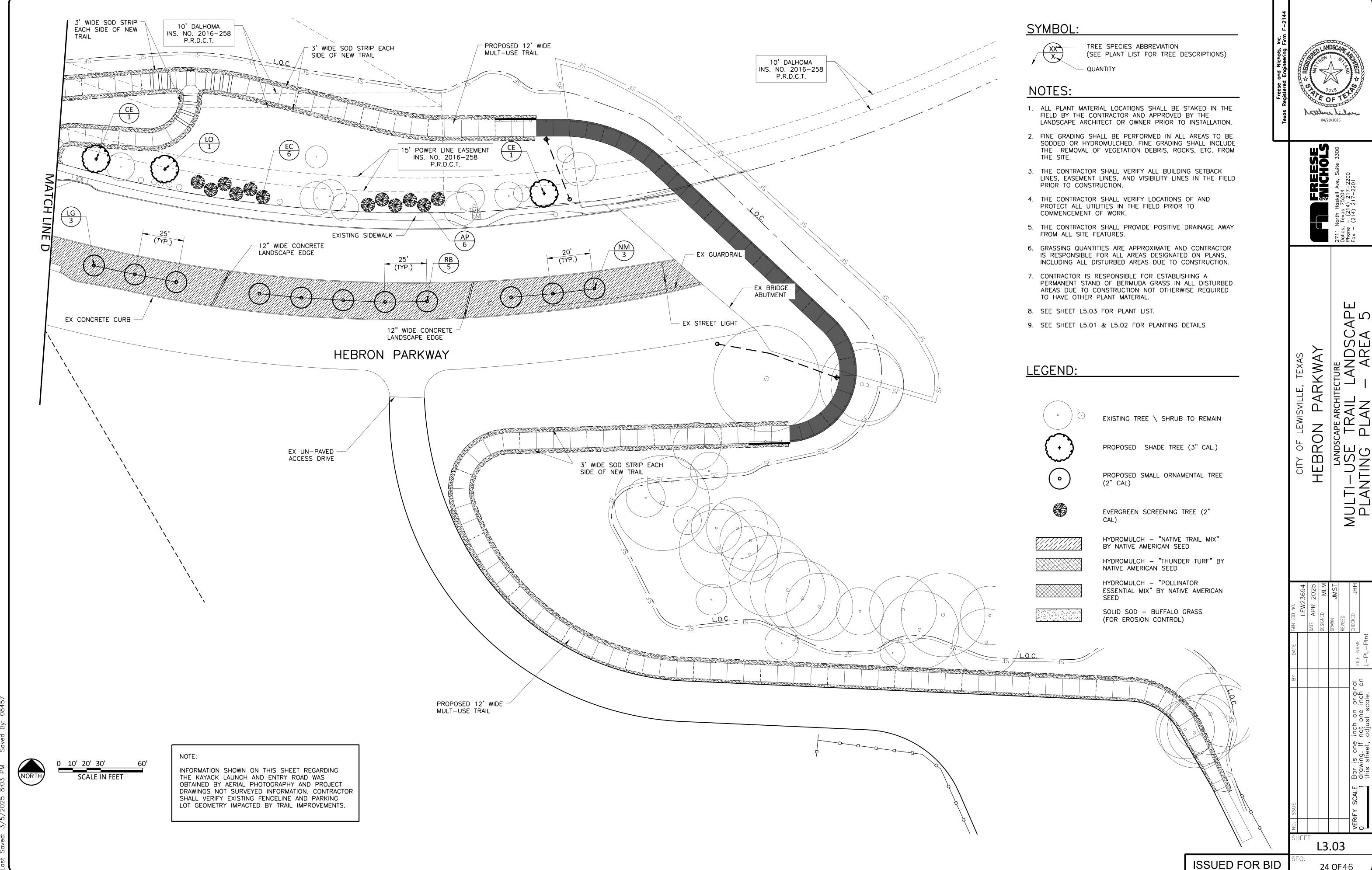
 $\sum_{i=1}^{N} A_i$

L3.02

ISSUED FOR BID

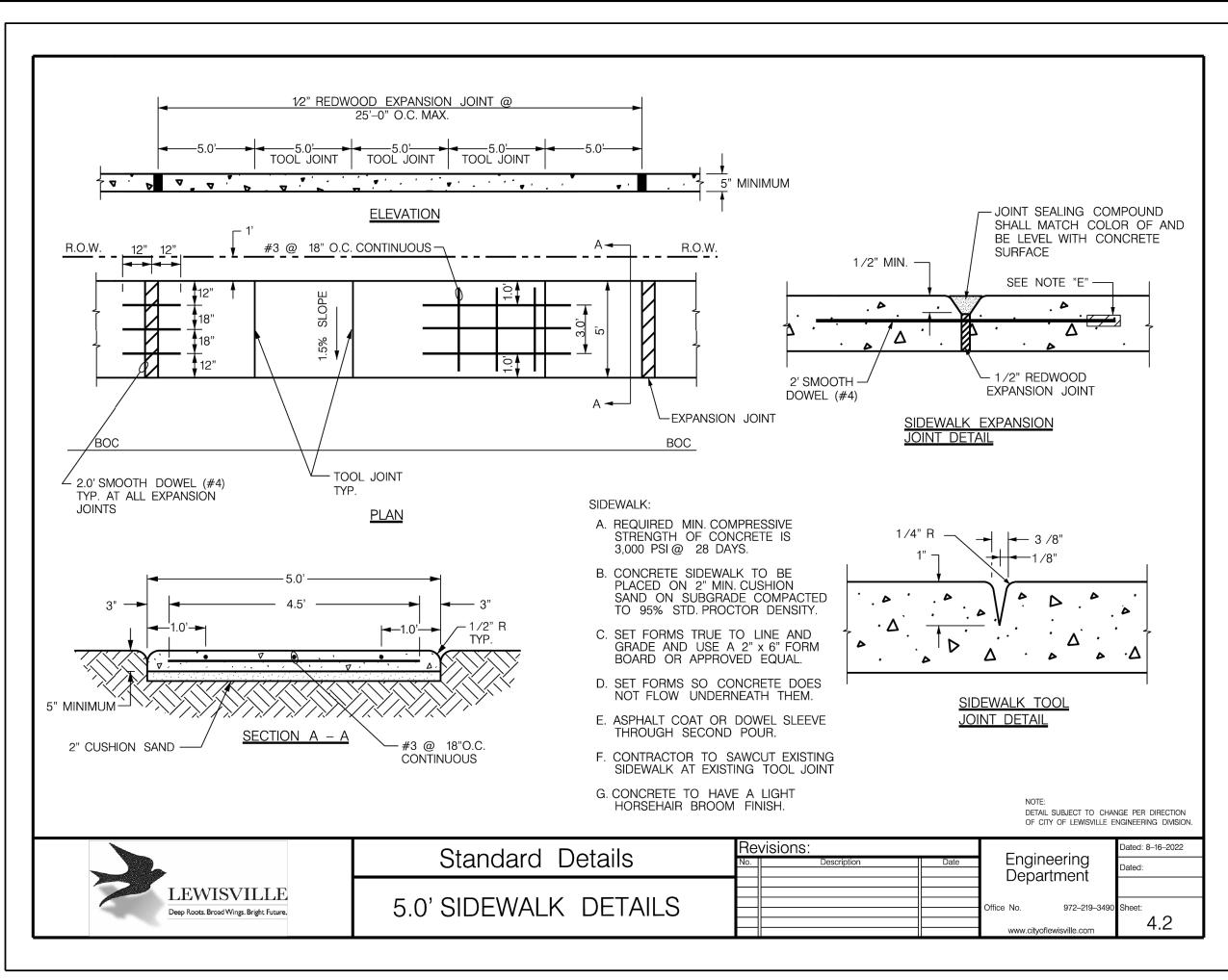
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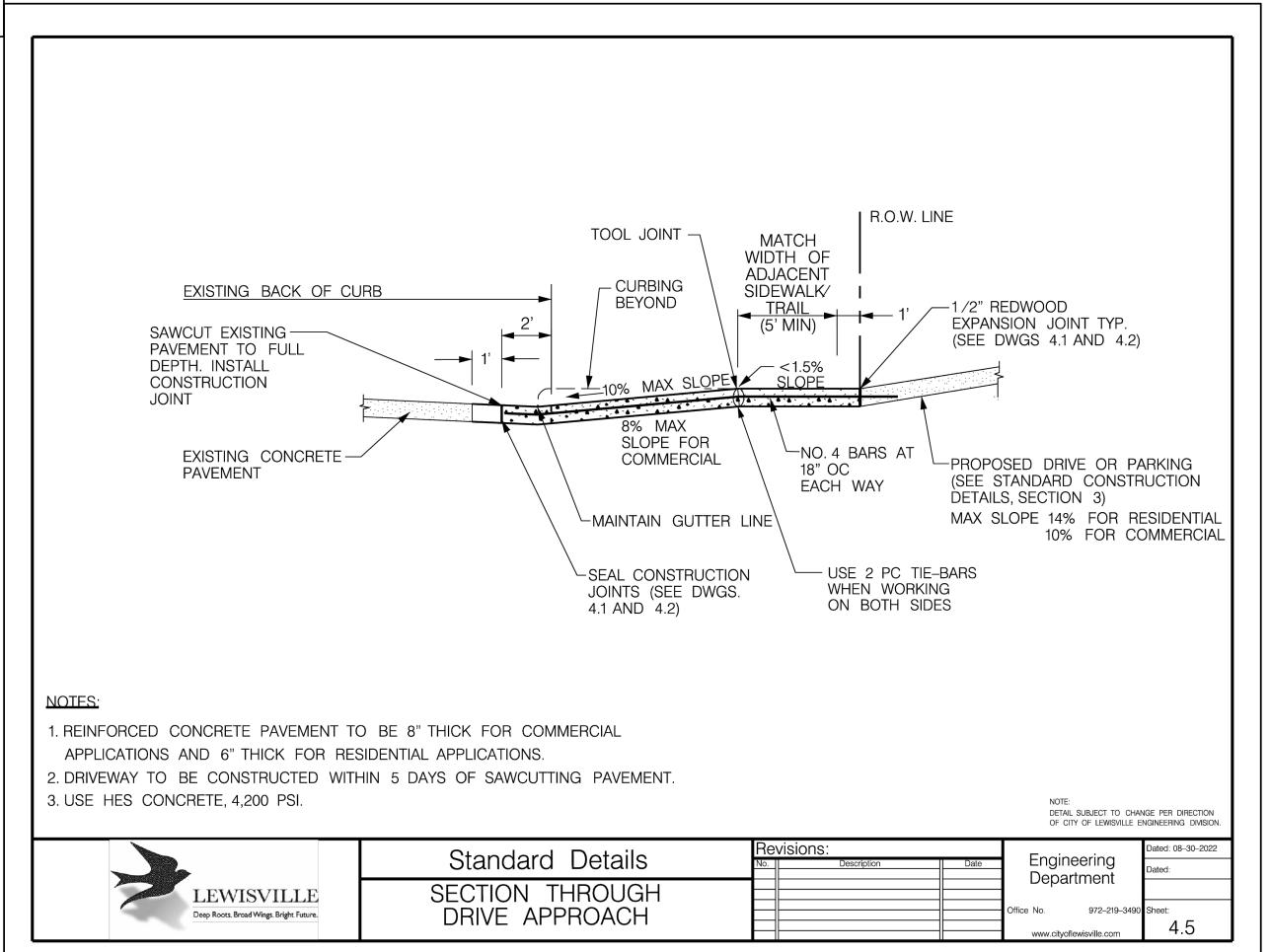
EX CONCRETE CURB

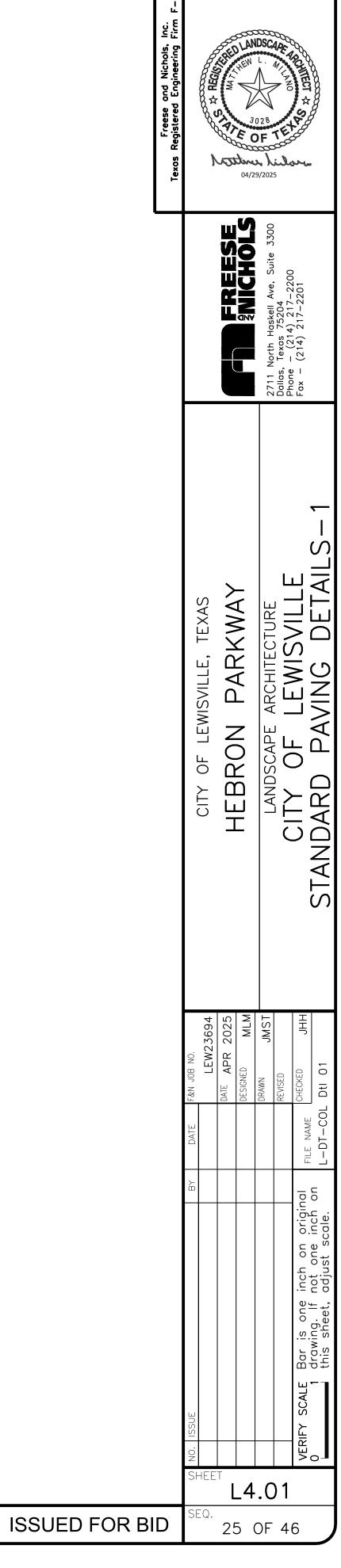


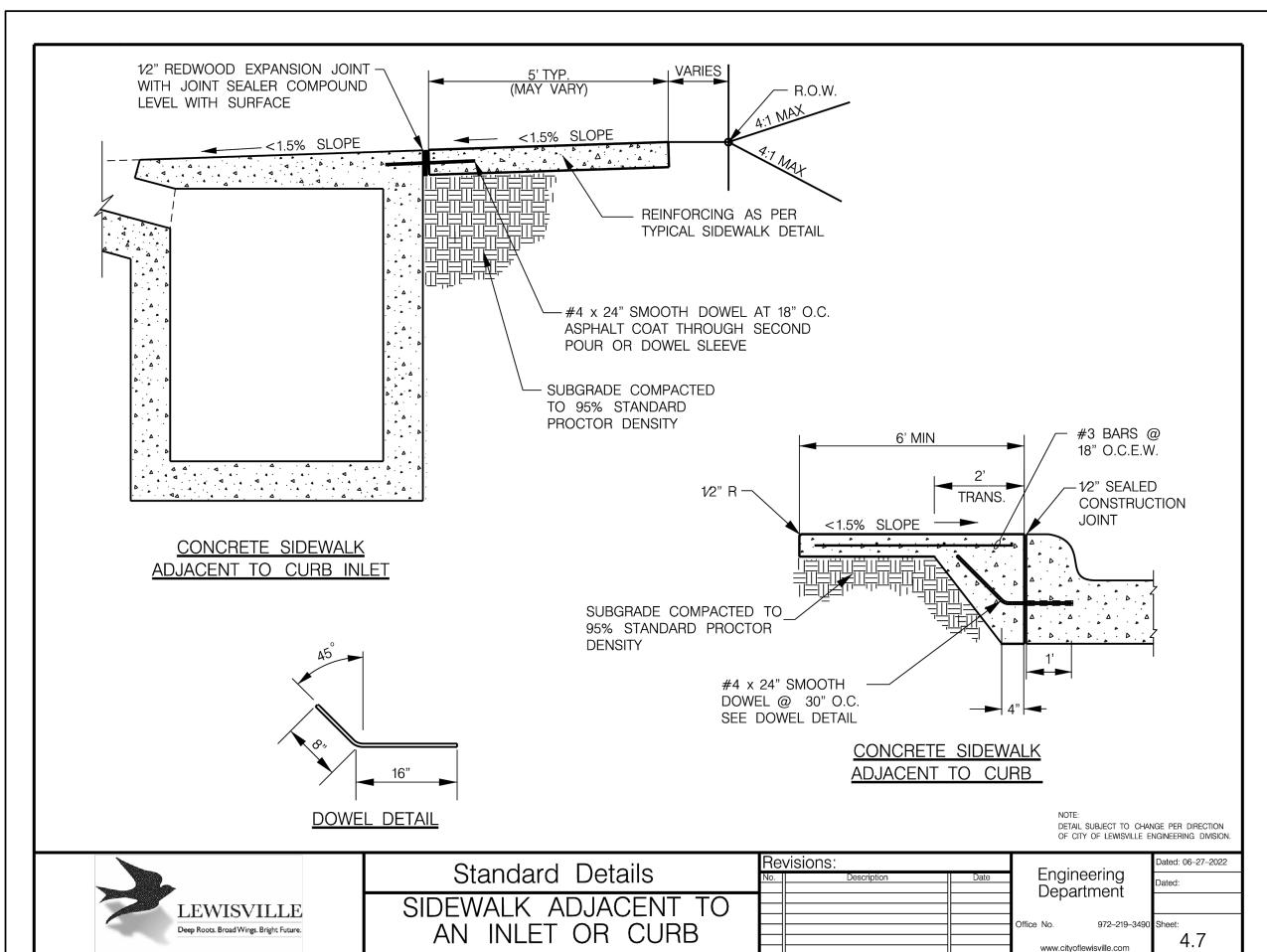
24 OF 46

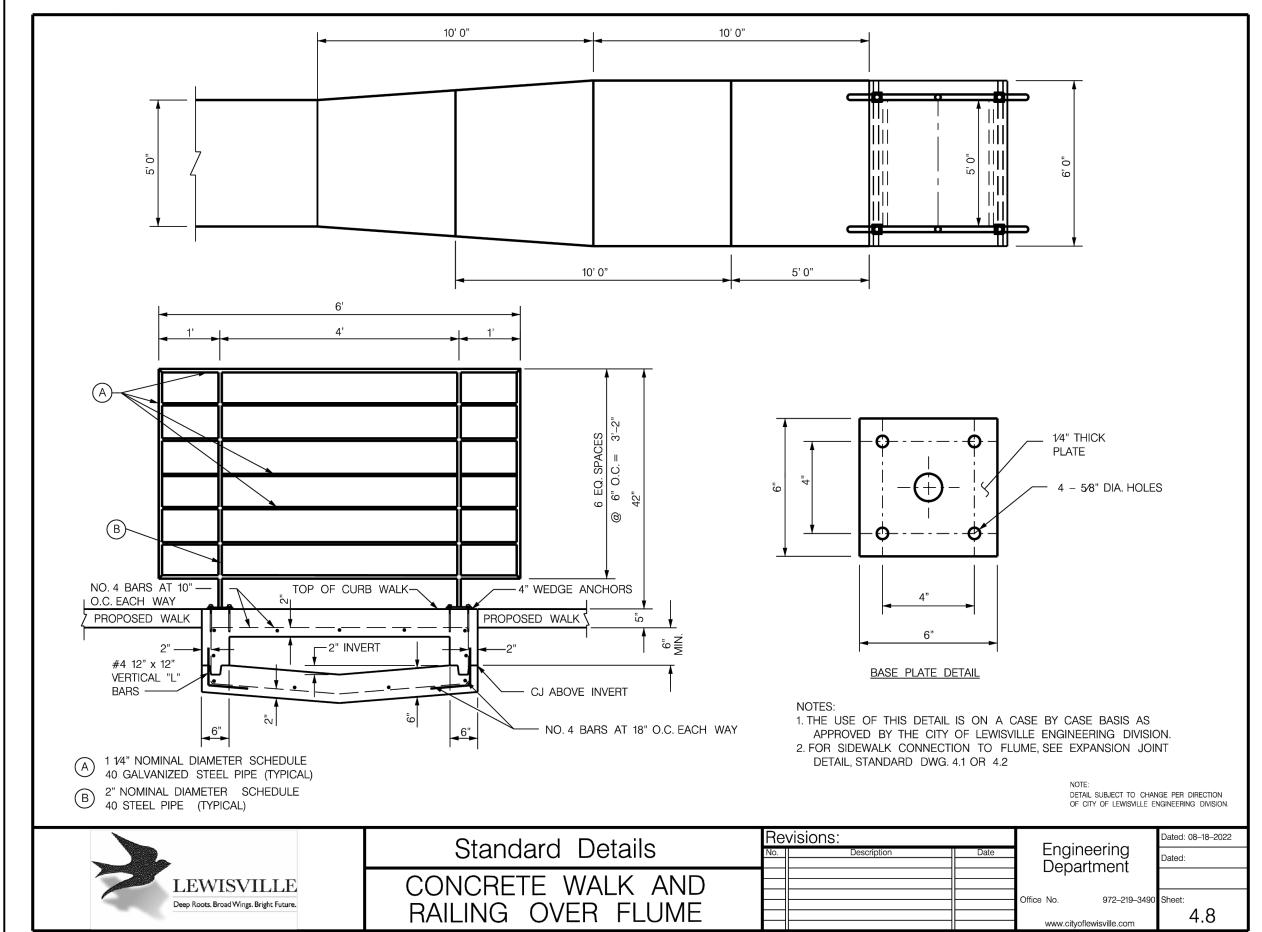
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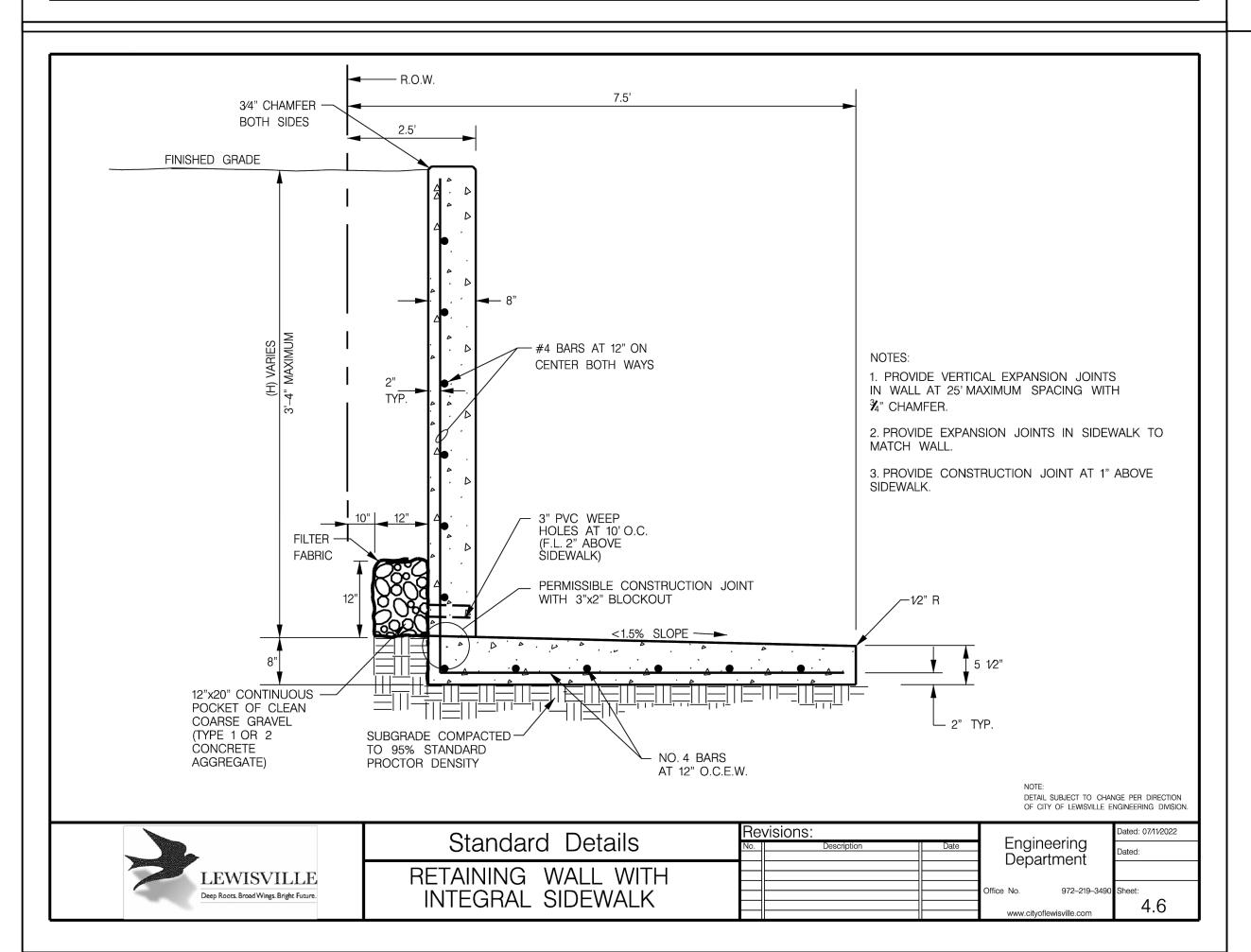










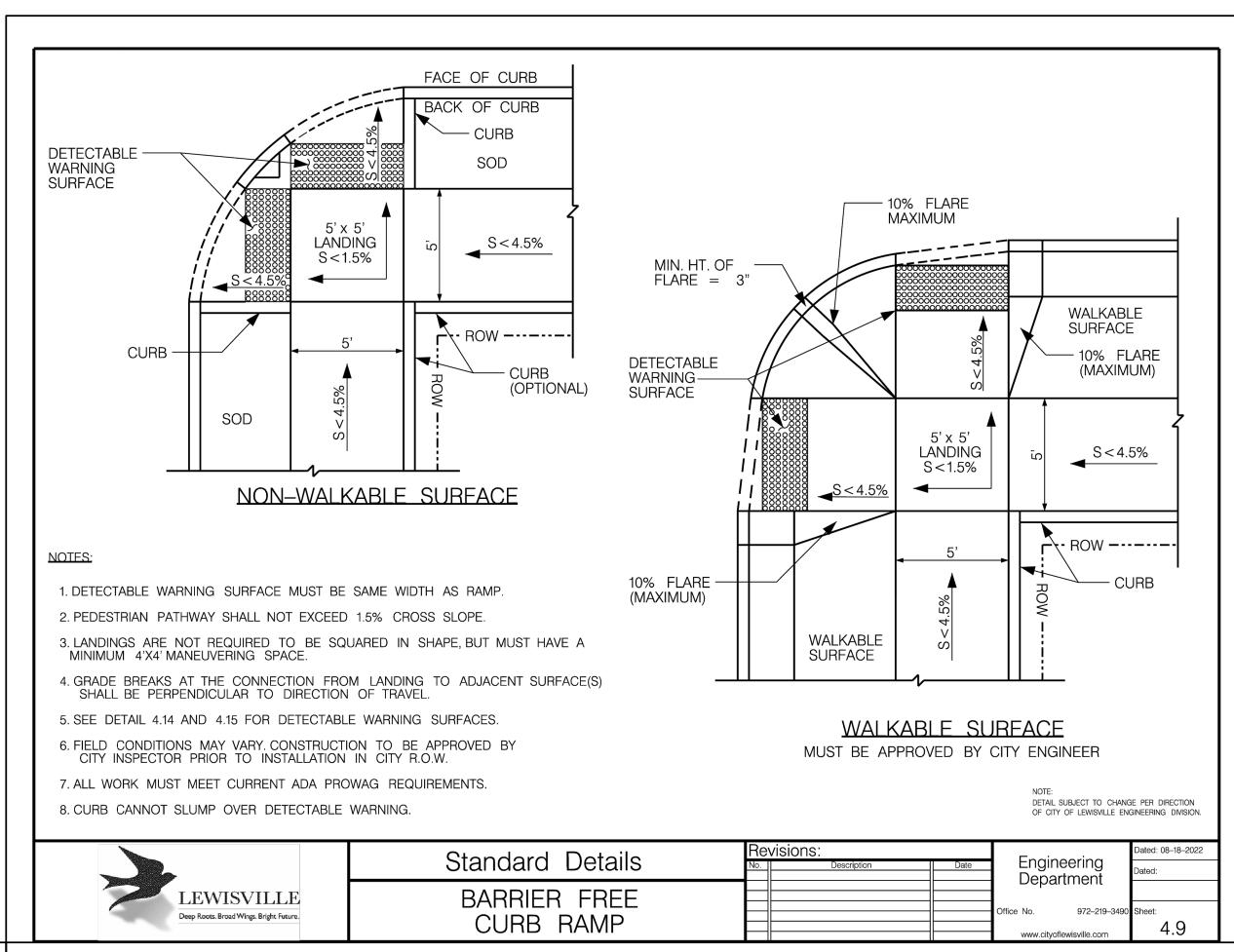


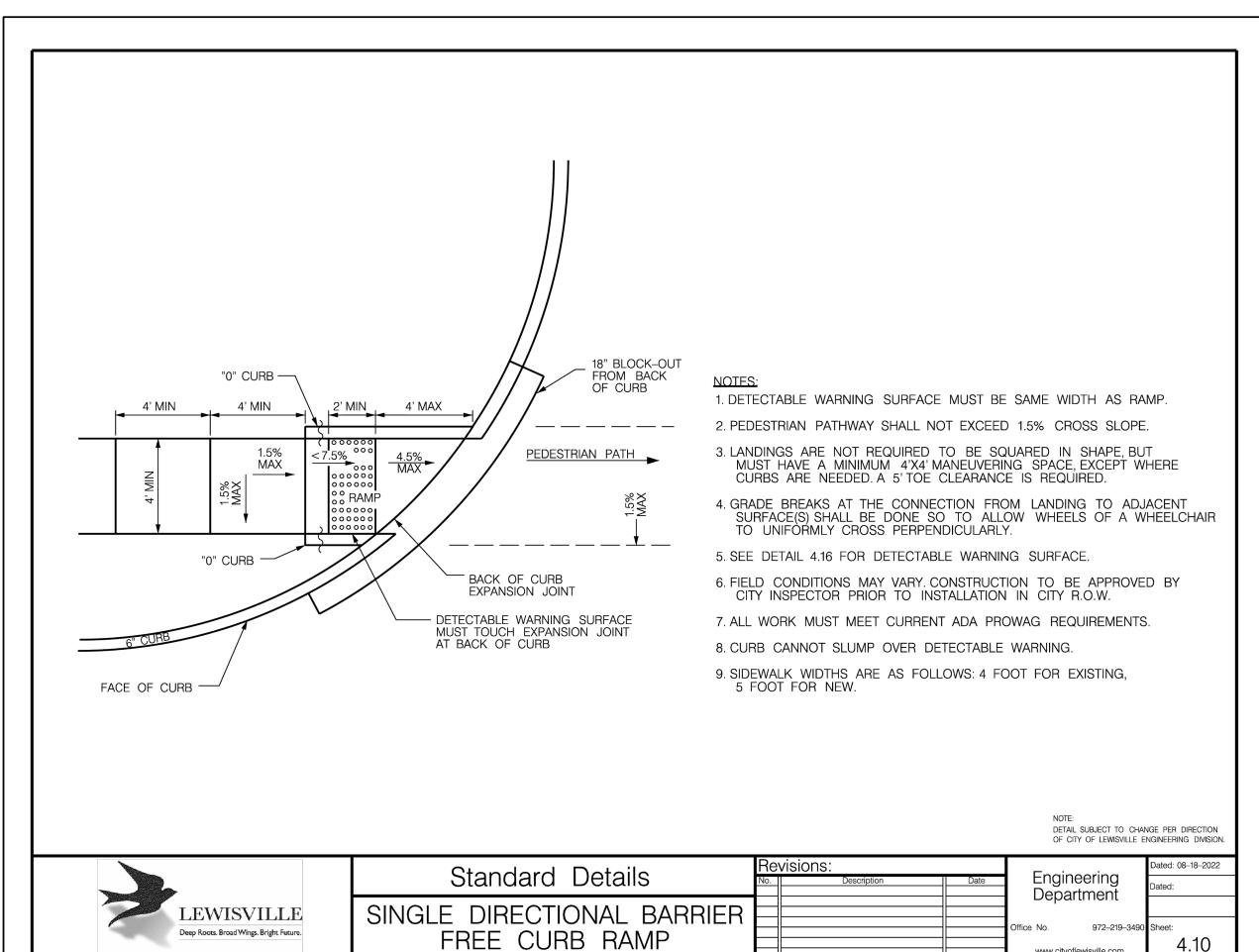


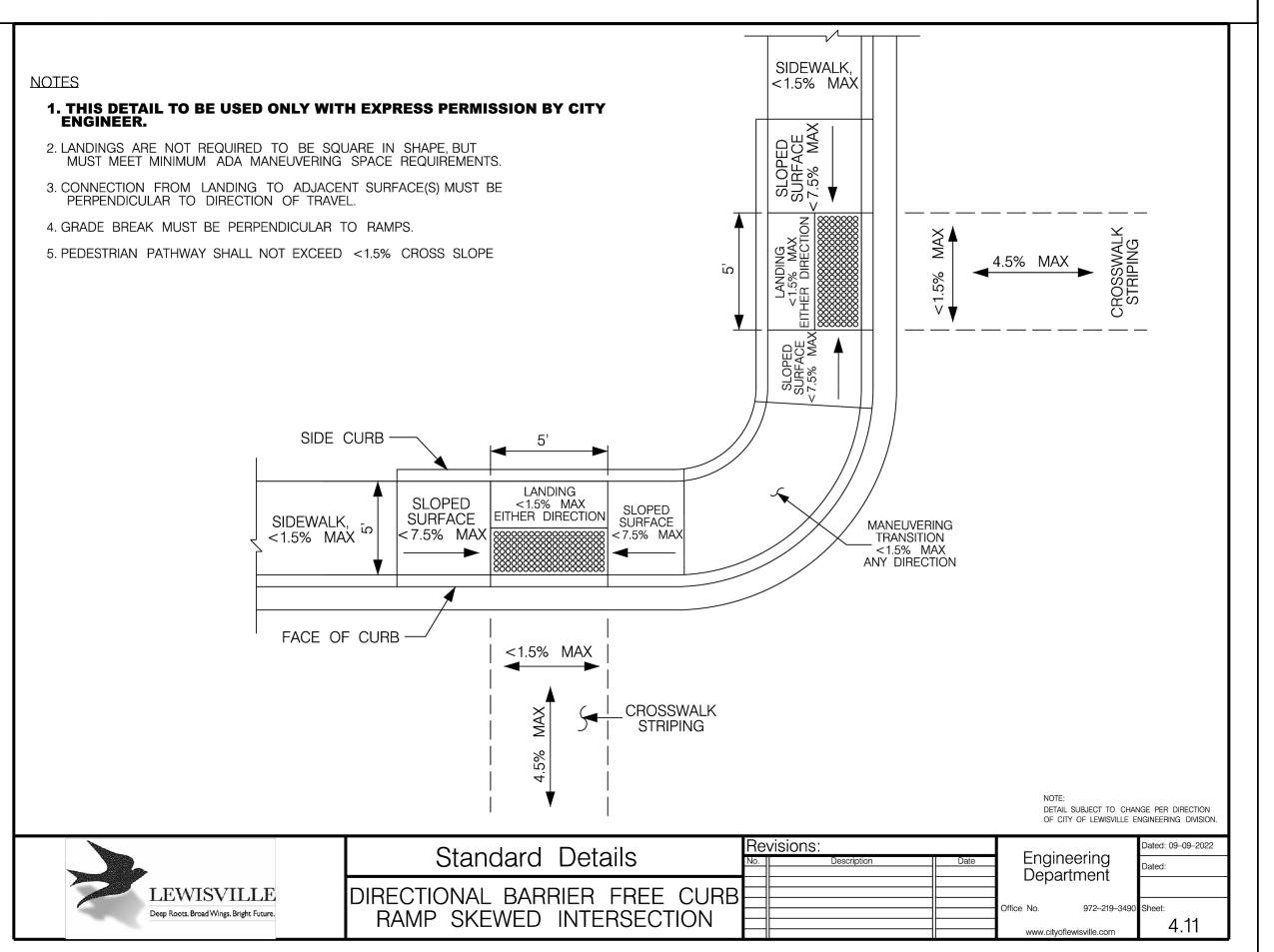
ISSUED FOR BID

26 OF 46

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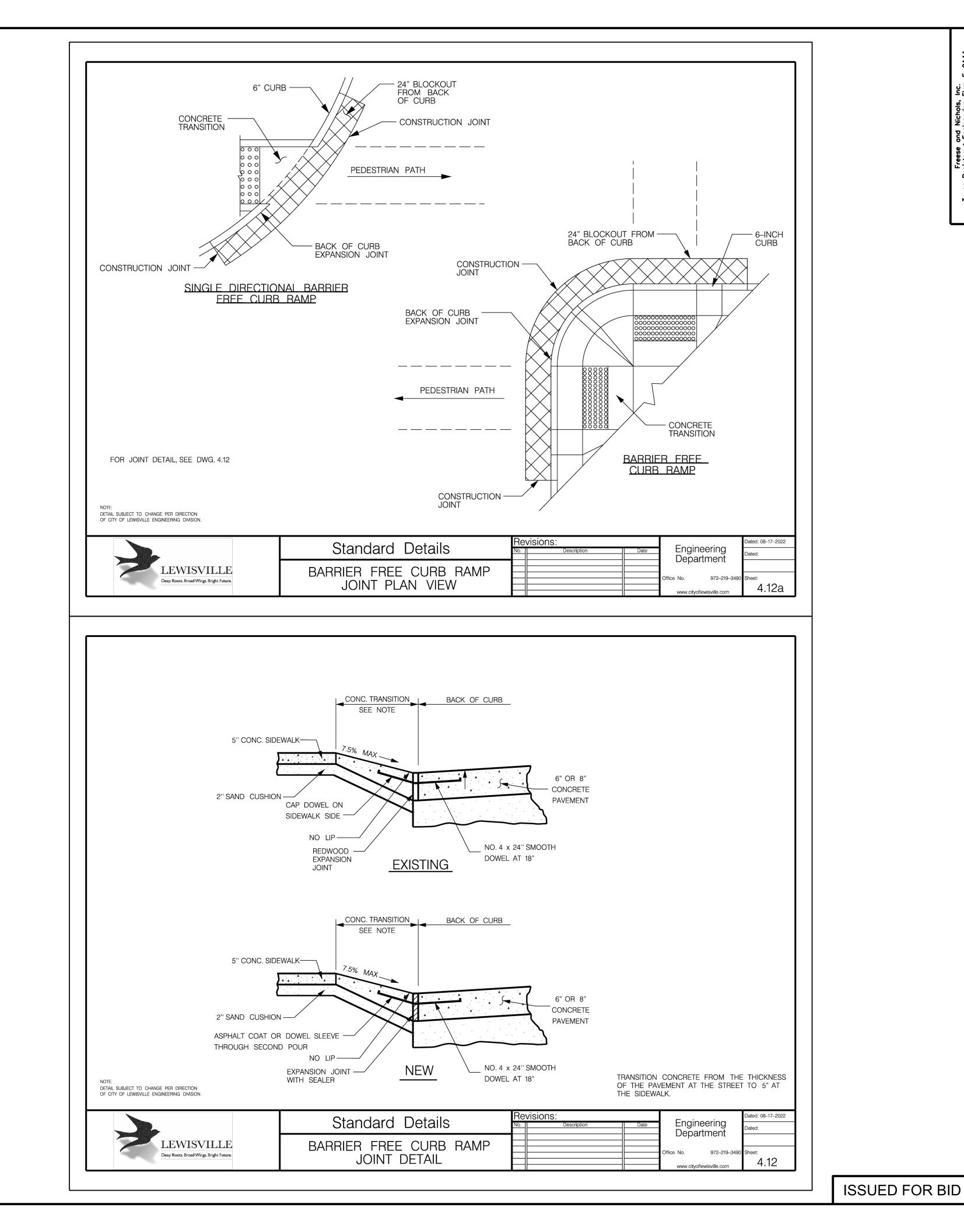




walish southers PARKWAY EBRON

ISSUED FOR BID

L4.03

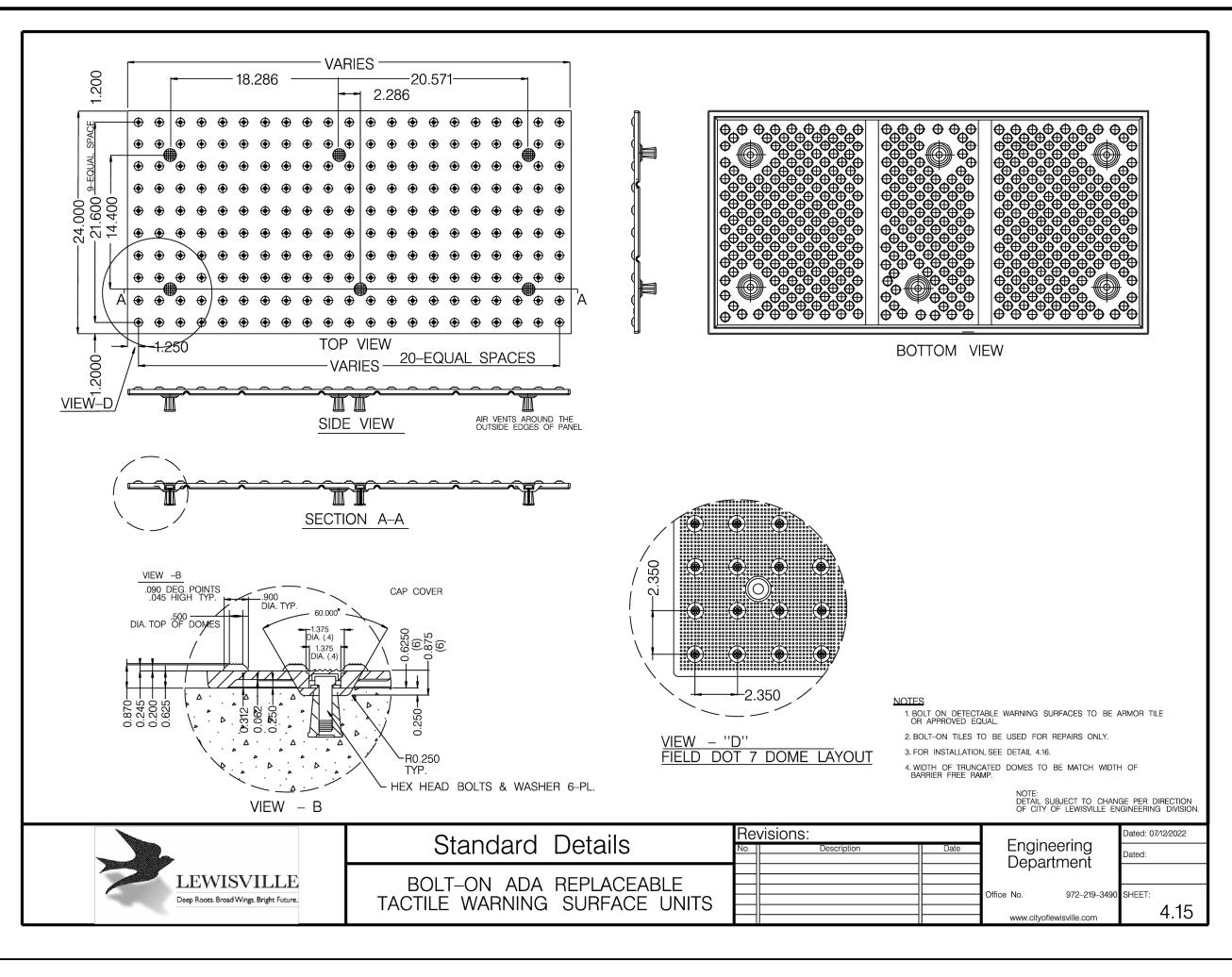


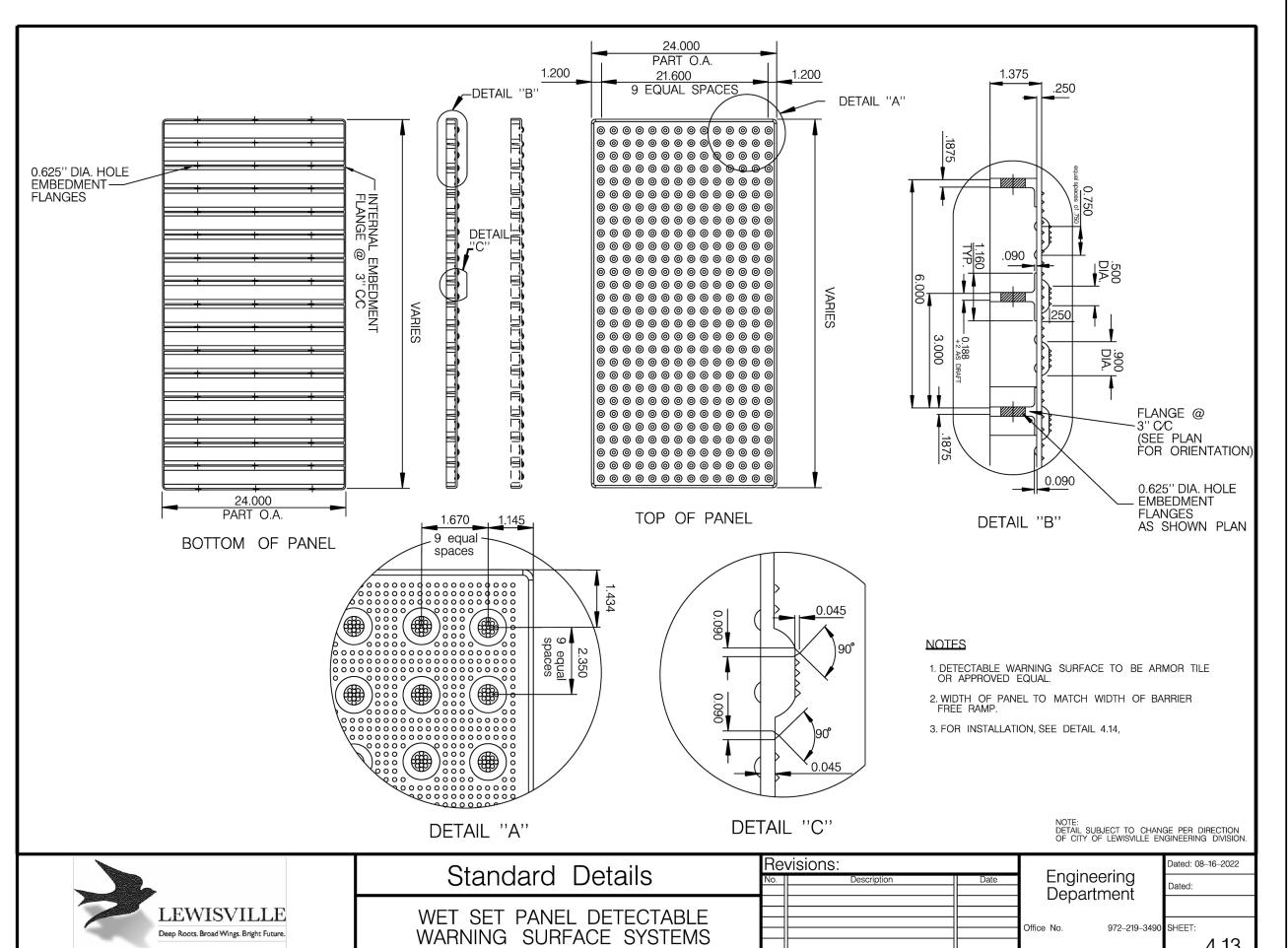


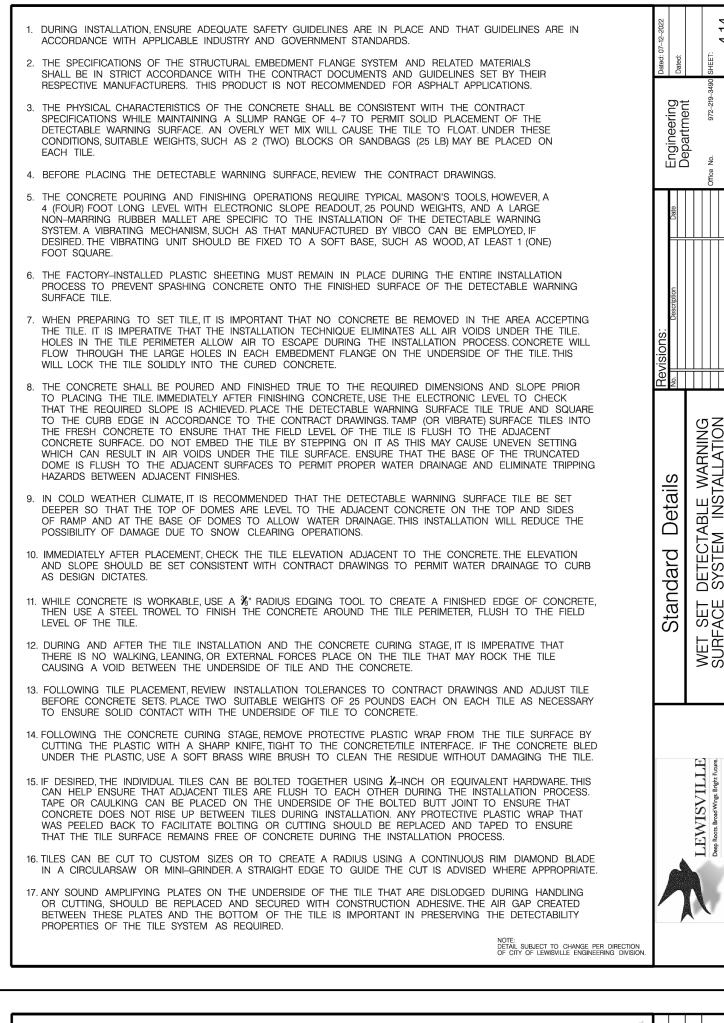
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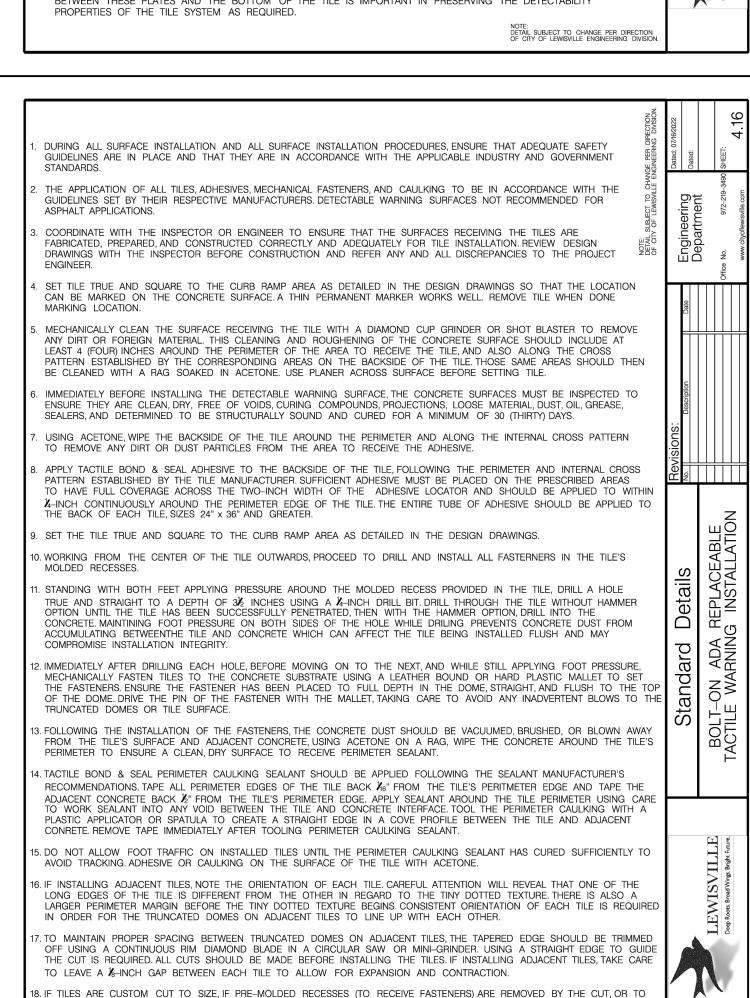
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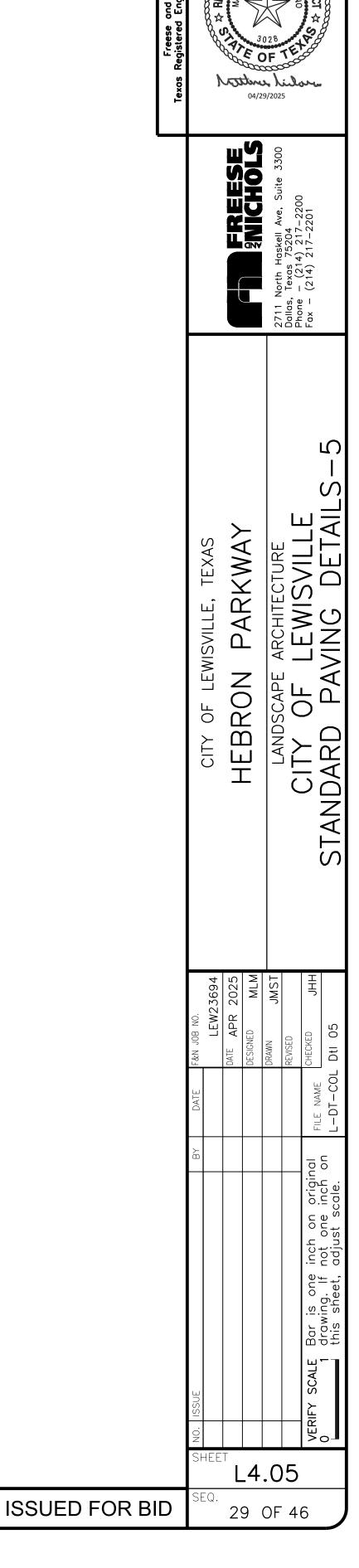


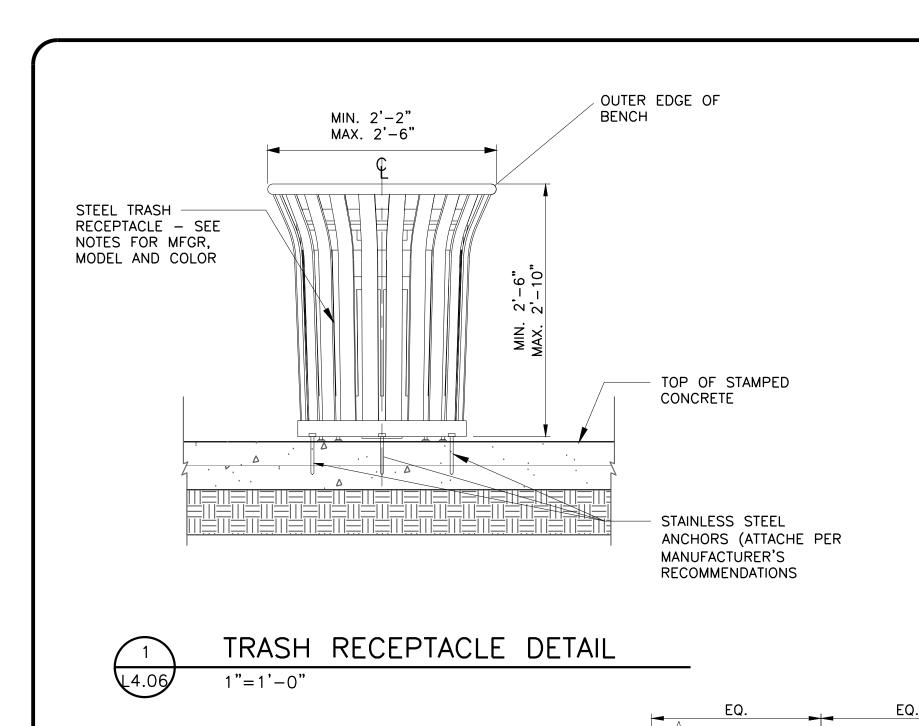




MAINTAIN A TIGHT INSTALLATION TO THE SUBSTRATE, THEN ANY TRUNCATED DOME MAY BE CENTER-DRILLED WITH A χ -inch through hole, and countersunk with a suitable bit, to receive mechanical fasteners. Do not countersink too

WIDELY OR DEEPLY. FASTENERS SHOULD BE FLUSH WITH THE TOP OF THE TUNCATED DOME WHEN COUNTERSUNK PROPERLY





EDGE OF STAINED

CONCRETE BAND

4" THICKNESS YELLOW THERMOPLASTIC TRAIL

SKIP LINE

TMUTCD (9C-2)

3.7" X 1.8" GRID

WHITE THERMOPLASTIC LETTERING PER TMUTCD

WHITE THERMOPLASTIC LETTERING PER TMUTCD

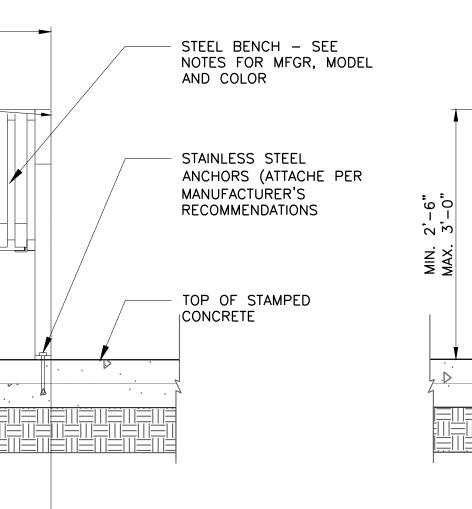
DIRECTION OF TRAVEL

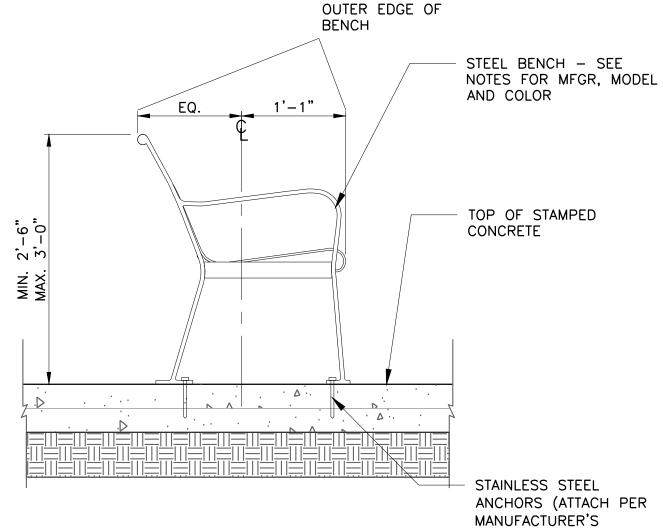
GUIDELINES

3" X 1.4" GRID

GUIDELINES

MIN. 6'-0"; MAX. 6'-4" STEEL BENCH - SEE NOTES FOR MFGR, MODEL OUTER EDGE OF AND COLOR BENCH STAINLESS STEEL ANCHORS (ATTACHE PER MANUFACTURER'S RECOMMENDATIONS TOP OF STAMPED CONCRETE





RECOMMENDATIONS

walish southers

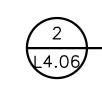
PARKWAY

BRON

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30 OF 46

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EDGE OF

CONCRETE

DIRECTION OF TRAVEL

TRAIL

BENCH DETAILS

- 1. CONTRACTOR SHALL INSTALL COLORIZED PAVEMENT MARKINGS AS SPECIFIED.
- 2. PRODUCT SHALL BE HOT APPLIED THERMOPLASTIC PER TXDOT STANDARDS. REFER TO TXDOT STANDARD SPECIFICATION DMS-8220.
- 3. CROSSWALK BARS AND "STOP AHEAD" MARKINGS SHALL BE WHITE COLOR.
- 4. "STOP AHEAD" PAVEMENT MARKINGS ARE TO BE INSTALLED TO BE READ FROM THE DIRECTION OF TRAVEL.

SIGN (REFER TO LAYOUT PLANS) TUBE STEEL POST TO RECIEVE BLACK POWDER COAT CONCRETE FOOTING. EXTEND 1/2" ABOVE GRADE. SLOPE TO FINISH GRADE UNDISTURBED SUBGRADE

NEW SIGN

NOT TO SCALE

DETAIL

NEW OR RELOCATED

THERMOPLASTIC NOTES:

NO SUBSTITUTIONS ARE ALLOWED FOR THIS ITEM.

- TRAIL CENTER SKIPLINE SHALL BE YELLOW COLOR.

FURNISHING (BENCH, TRASH RECEPTACLE, BIKE REPAIR STATION) ON SITE WITH LANDSCAPE ARCHITECT PRIOR TO DRILLING OF ANCHOR BOLT HOLES AND INSTALLATION OF INITIAL SITE FURNISHING.

SITE FURNISHING MANUFACTURER SHALL BE:

MANUFACTURER'S RECOMMENDATIONS.

1. ALL SITE FURNISHINGS SHALL BE FROM A SINGLE MANUFACTURER FOR CONTINUITY OF PRODUCT FINISH, QUALITY, AND WARRANTY/MAINTENANCE. COLOR AND FINISH FOR ALL SITE FURNISHINGS SHALL BE BLACK POWDER

SUBMIT SITE FURNISHINGS PRODUCT DATA AND COLOR SAMPLES TO

LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDER AND INSTALLATION.

BENCH: VICTOR STANLEY, INC., STEELSITES RB SERIES, MODEL RB-28.

2. ALL SITE FURNISHINGS TO BE SURFACE MOUNTED INTO CONCRETE PADS PER

TRASH RECEPTACLE: VICTOR STANLEY, INC., T SERIES, MODEL T-32.

OR EQUIVALENT PRODUCT APPROVED BY LANDSCAPE ARCHITECT.

3. CONTRACTOR SHALL VERIFY INITIAL PLACEMENT OF EACH TYPE OF SITE

BIKE REPAIR STATION: DERO, PLAYCORE, FIXIT SERIES WITH AIR KIT 2.

SITE FURNISHING NOTES:



W11-2 - PEDESTRIAN CROSSING QTY = 1POLE MOUNTED

> SIGNS ARE TO FOLLOW MUTCD GUIDELINES. INSTALL SIGNS PER TXDOT STANDARDS

NEW SIGN PANEL DETAIL NOT TO SCALE

NOT TO SCALE Plot Date: 4/23/2025 2:04 PM Plot By: 08036 Filename: N:\LA\Drawings\L-DT-Dtl 06.dwg

EDGE OF CONCRETE

> STOP AHEAD IN TRAIL PAVEMENT MARKING DETAIL

Section Detail SCALE: 1/2"=1'-0"





ST-106 DETAILS

NOTES:

- 1. ALL WAYFINDING 7 MONUMENT SIGNS SHALL CONFORM TO "CITY OF LEWISVILLE, TEXAS PARK & RECREATION DEPARTMENT PARKS & TRAILS WAYFINDING PLAN" DATED JUNE 2022. A COPY OF THE DOCUMENT CAN BE FOUND IN THE PROJECT MANUAL.
- IS WELL BUILT, CONSISTENT, MEETS THE DESIGN INTENT AND IS INSTALLED ACCORDING TO AGREED UPON PROJECT SCHEDULES. LIKEWISE, ESTABLISHED AND TRUSTWORTHY LANDSCAPE CONRACTORS ARE ESSENTIAL TO MEETING THE OVERALL QUALITY AND EXECUTION OF THE TRAIL ENHANCEMENTS LISTED WITHIN THIS DOCUMENT. THE QUALITY GAP BETWEEN FABRICATORS OR CONTRACTORS CAN BE GREAT, SO IT IS IMPORTANT THAT ANY NEW
 - A. IN BUSINESS FOR A MINIMUM OF 10 YEARS.
 - C. AT LEAST 80% OF THE PROJECT SCOPE MUST BE PERFORMED IN-HOUSE.
 - D. EXPERIENCE WITH LOCAL CODES AND OBTAINING PERMITS AND
 - E. DEDICATED PROJECT MANAGER STAFF POSITIONS IN ORDER TO MANAGE AND FACILITATE ALL ASPECTS OF THE PROJECT THROUGH

 - G. PREFERENCE FOR LOCAL OR REGIONAL FABRICATORS



3 ST-106B Front Elevation SCALE: 1/2"=1'-0"

ST - 106B DETAILS

4 ST-106B Back Elevation SCALE: 1/2"=1'-0"

2. QUALIFICATIONS FOR SIGN FABRICATORS & LANDSCAPE CONTRACTORS UTILIZING HIGH QUALITY FABRICATORS IS CRITICAL TO CREATING SIGNAGE THAT

FABRICATOR OR CONTRACTOR MEET THE FOLLOWING CRITERIA:

B. SUCCESSFUL COMPLETION OF OTHER PROJECTS OF SIMILAR SIZE AND SCOPE - PROVIDE EXAMPLES AND REFERENCES.

OTHER APPROVALS AS REQUIRED.

COMPLETION. F. BONDED, LICENSED AND INSURED PER CITY OF LEWISVILLE REQUIREMENTS.

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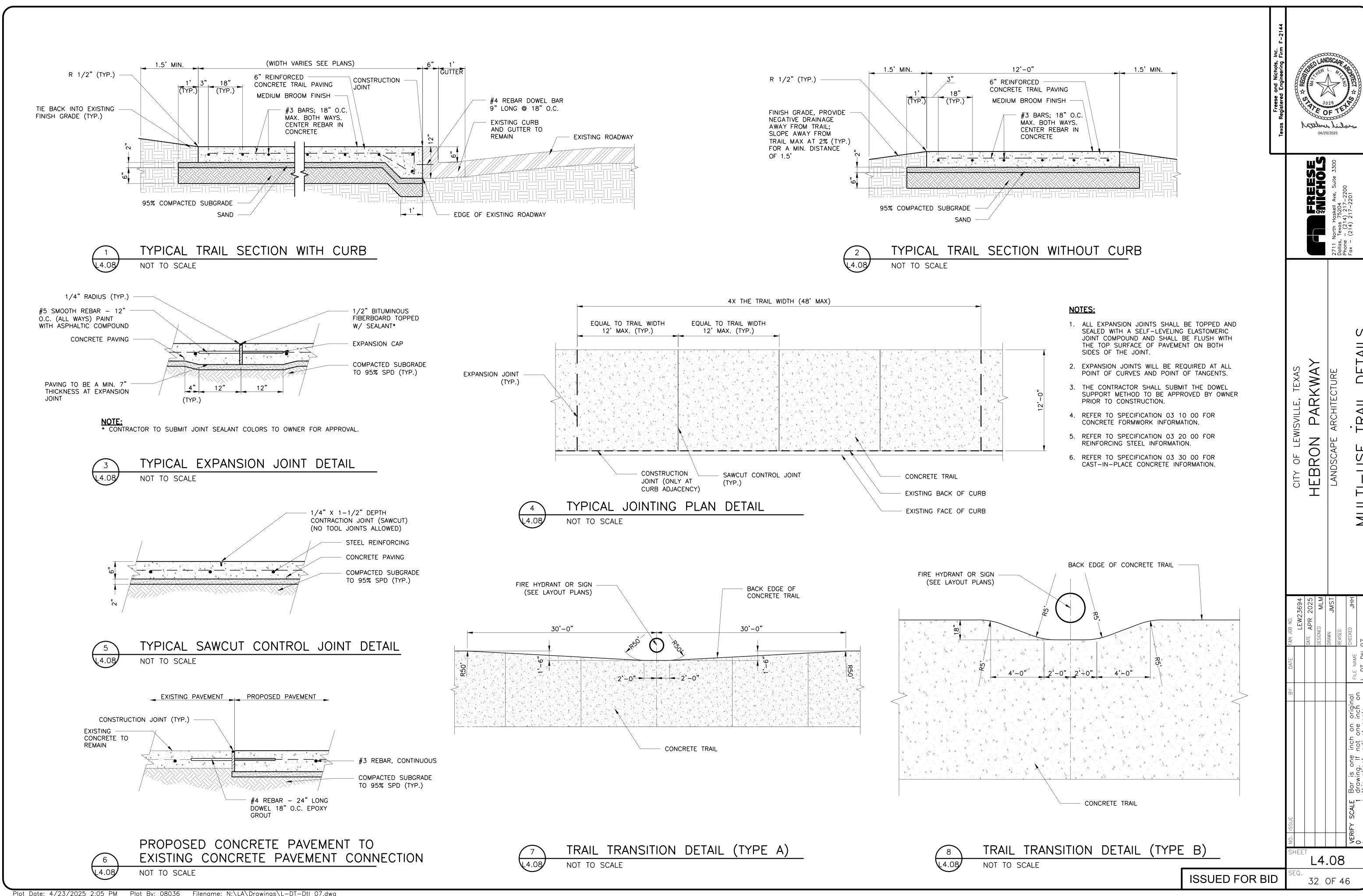
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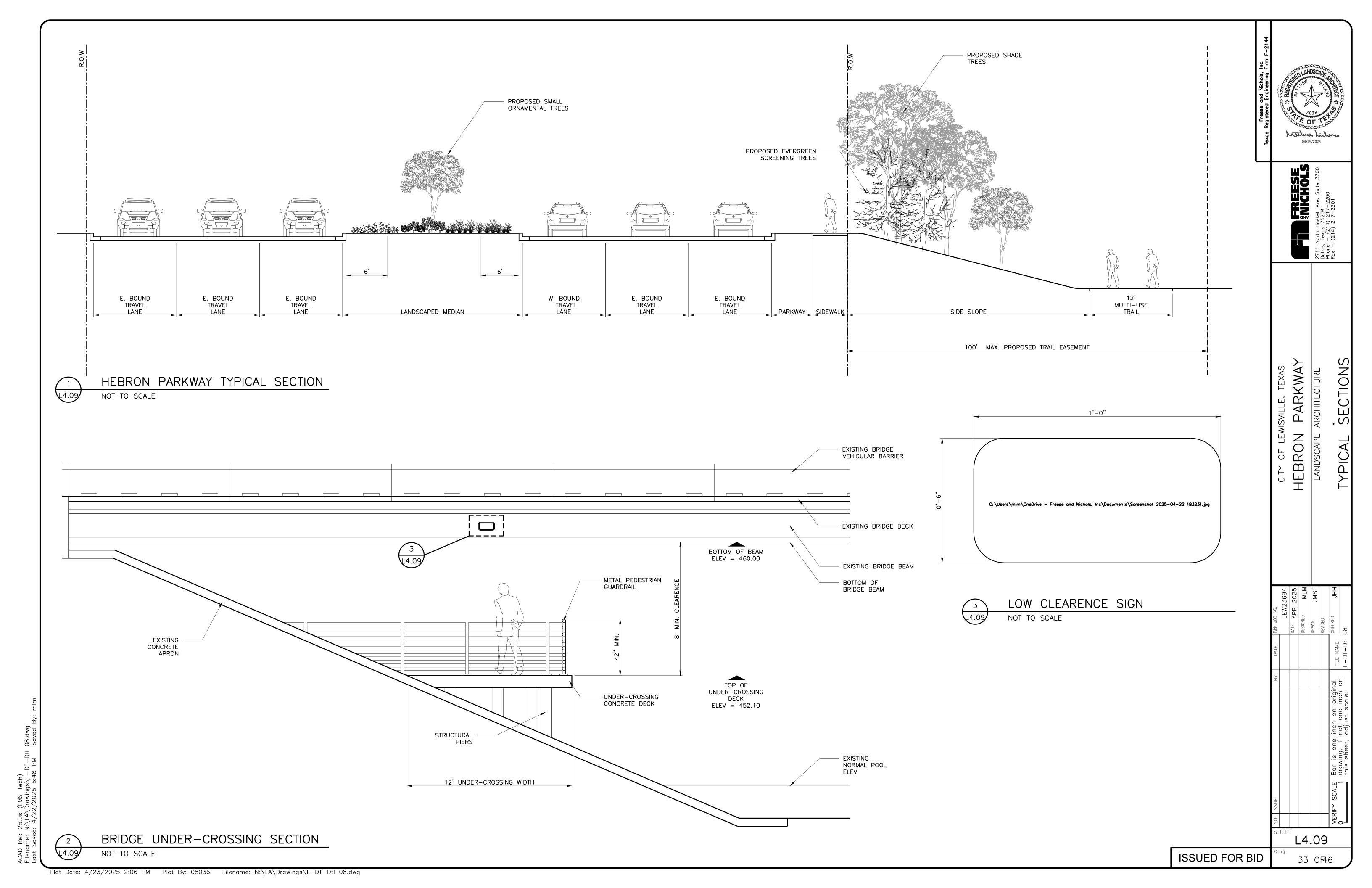
LEWISVILLE, TEXAS

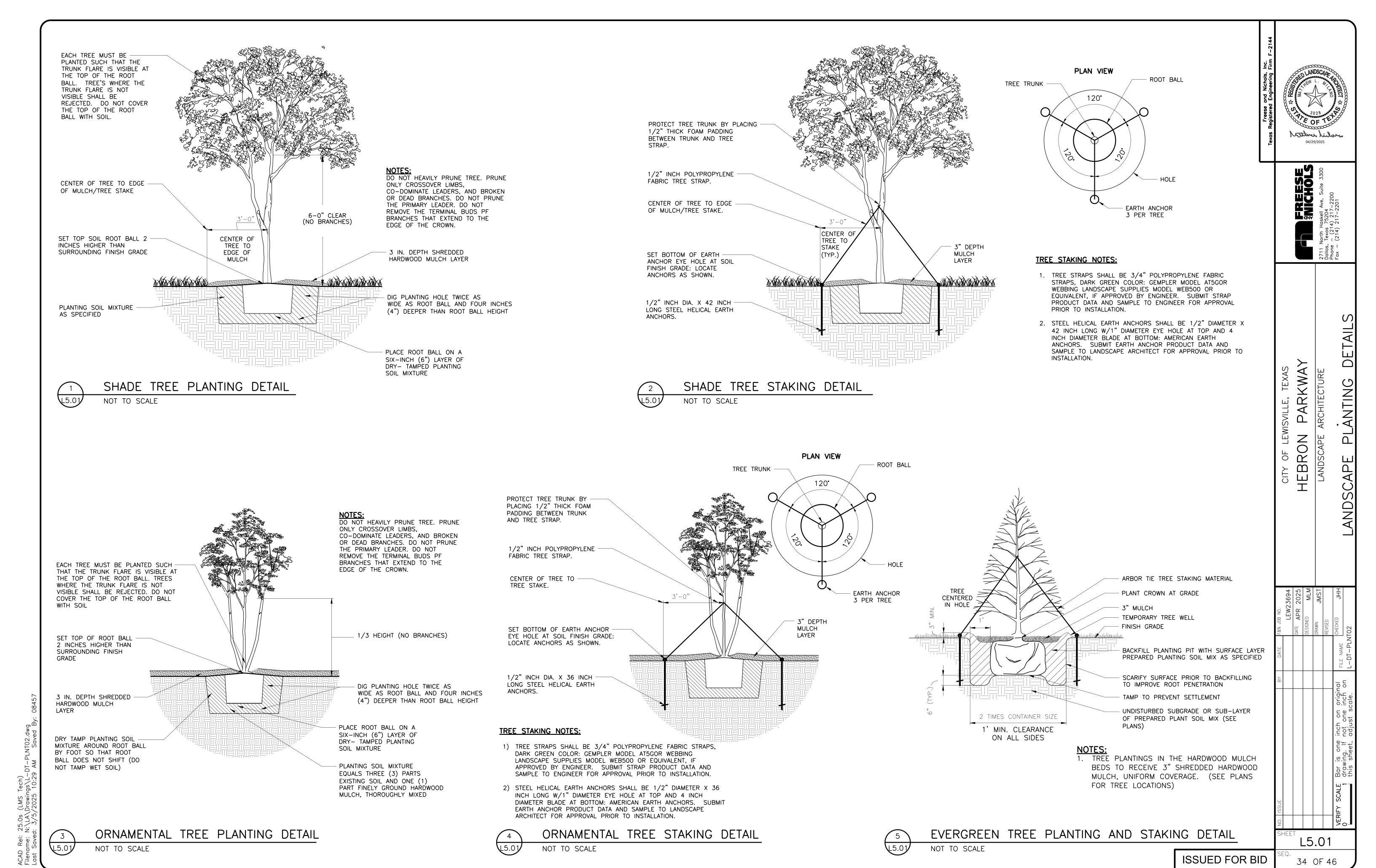
ON PARKWAY

HEBRON

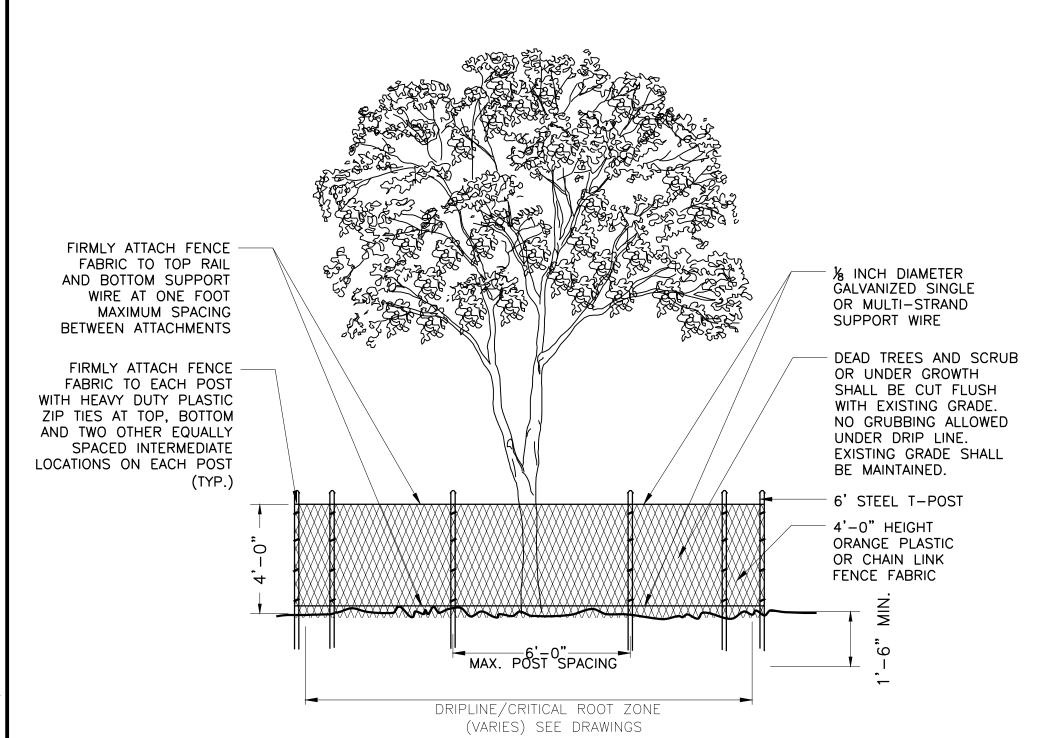
FINDING











TREE PROTECTION FENCE DETAIL - ELEVATION $1/2^{"=1}$

NOTES:

1. TREE PROTECTION FENCE SHALL BE ERECTED AROUND EACH PROTECTED
TREE OR GROUP OF PROTECTED TREES
AT LEAST TWO FEET BEYOND THE DRIP-LINE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

2. DURING CONSTRUCTION, NO ACCESS IS PERMITTED WITHIN THE PROTECTIVE FENCE FOR ANY PURPOSE, EXCEPT TRASH REMOVAL AND LANDSCAPE MAINTENANCE.

3. DURING CONSTRUCTION, AREA WITHIN THE TREE PROTECTION FENCE SHALL BE WATERED AT A RATE WHICH PROVIDES ONE INCH OF WATER PER WEEK, INCLUSIVE OF RAINFALL.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND AVOIDING UNDERGROUND UTILITIES OR OTHER IMPROVEMENTS PRIOR TO PLACEMENT OF TREE PROTECTION FENCING.

TREE PROTECTION FENCE DETAIL - PLAN VIEW NOT TO SCALE

MAX. POST, SPACING

2' MIN.

FENCE LOCATIONS -

(SEE DRAWINGS)

FENCE LOCATED 2'-0" MIN. OUTSIDE

DRIPLINE (UNLESS SHOWN OTHERWISE

ON THE DRAWINGS)

DRIPLINE/CRITICAL ROOT ZONE

(SEE DRAWINGS)

HEBRON

L5.02

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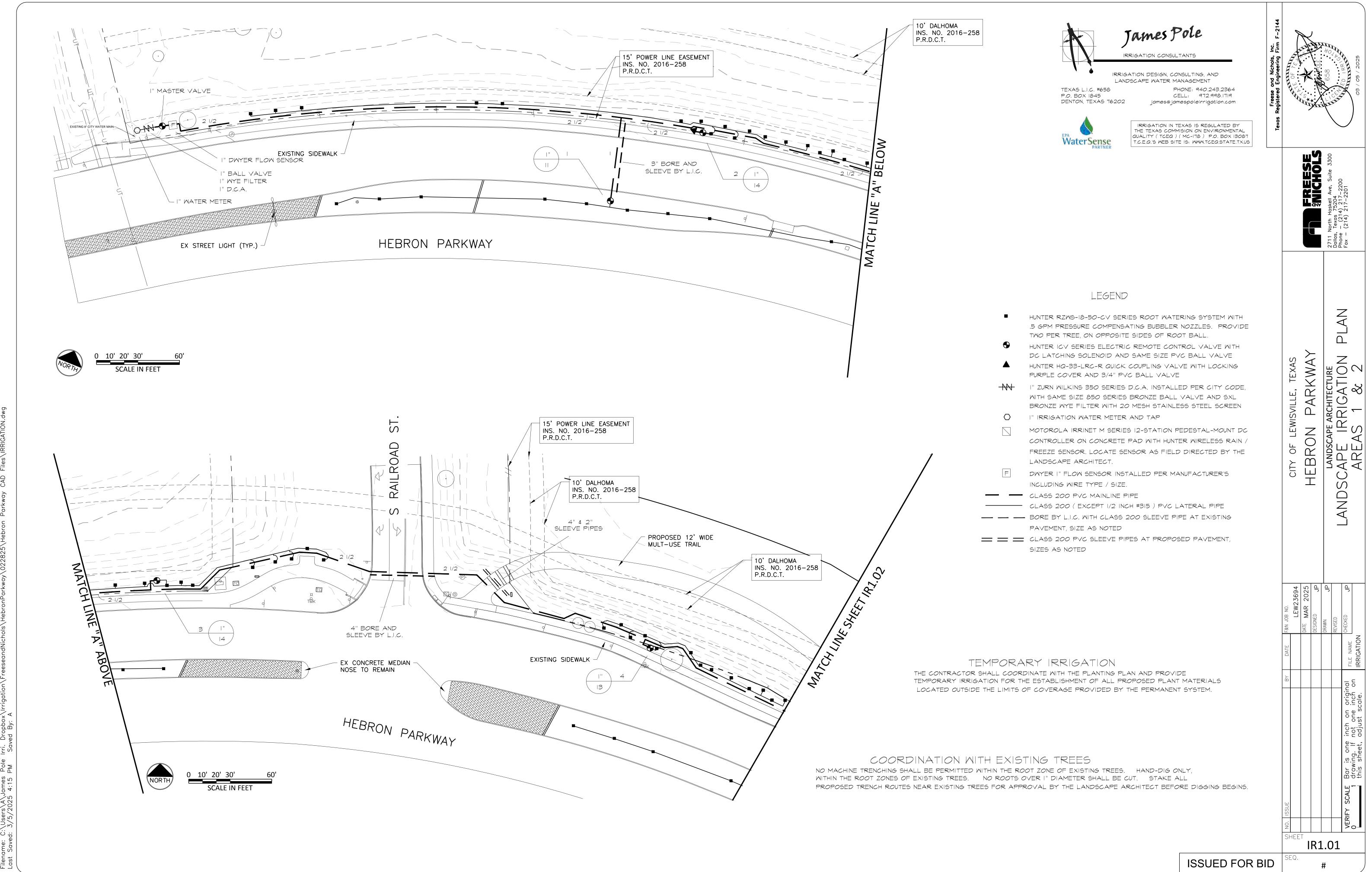
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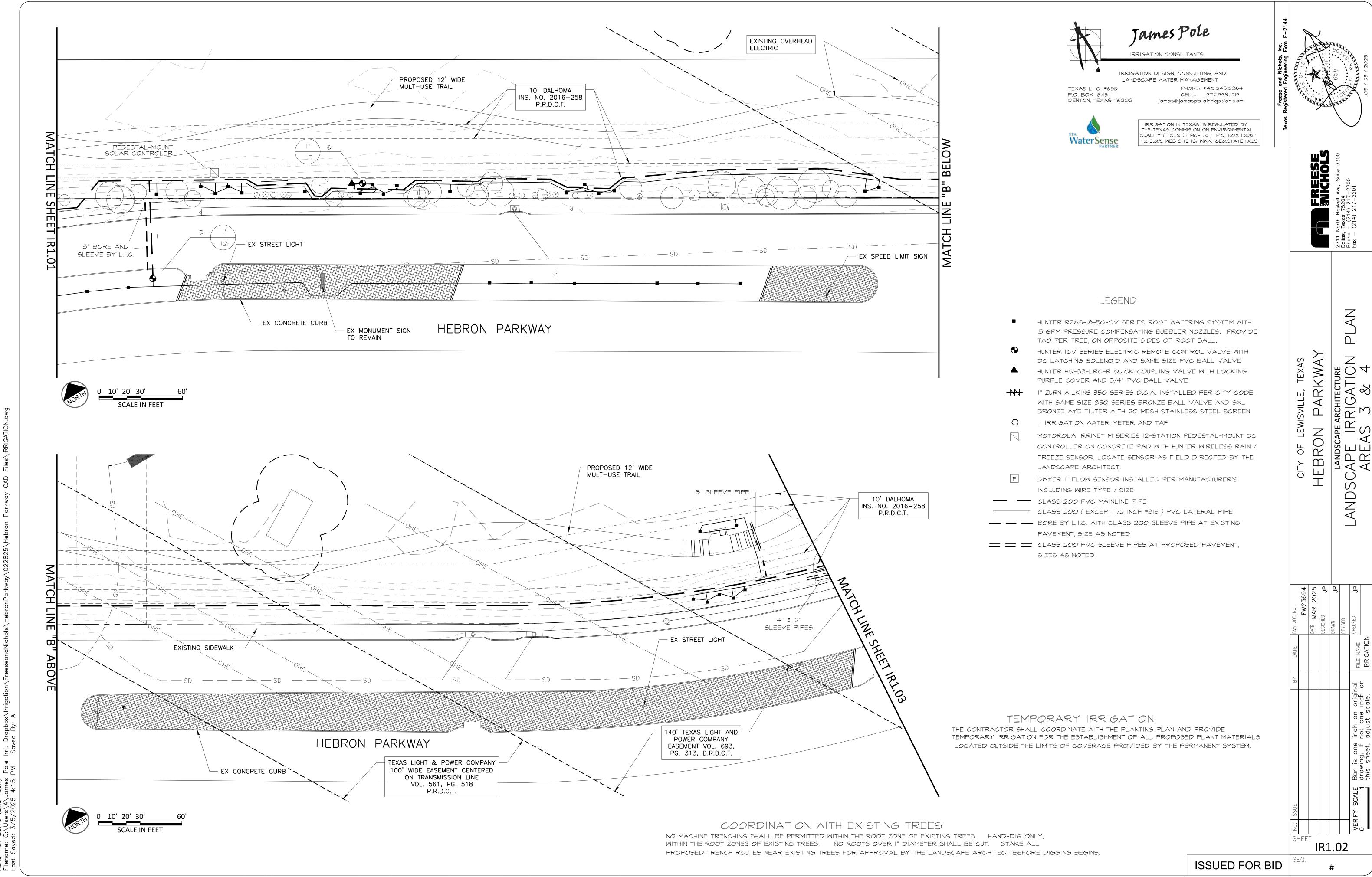
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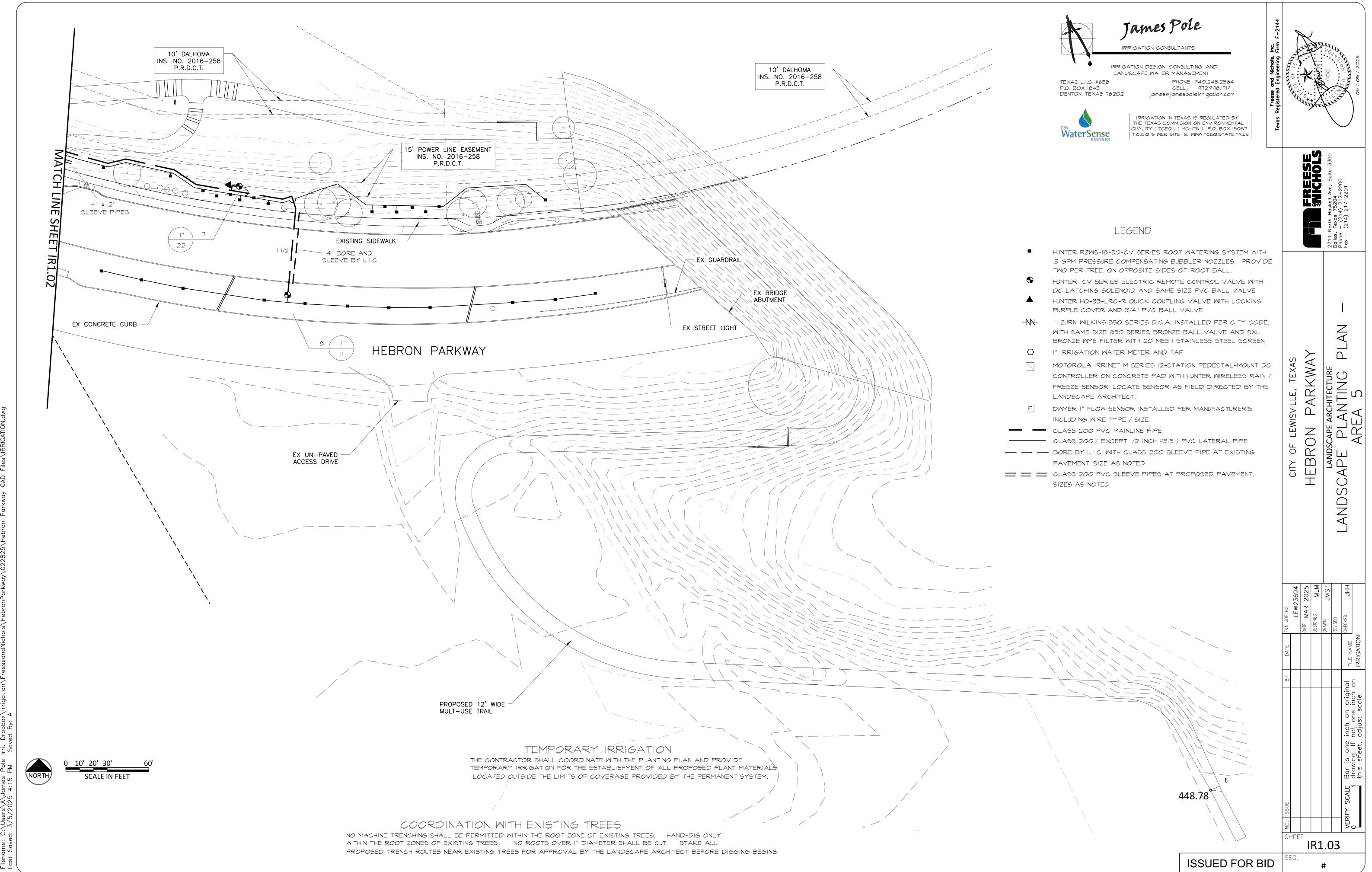
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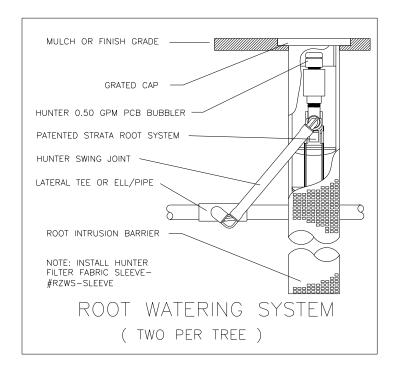
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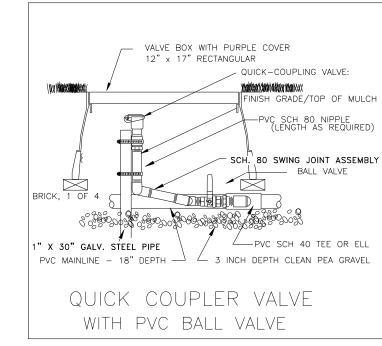
	PLANT LIST							
SYMBOL	PLANT ABBREVIATION	QUANTITY	MIN. SIZE	COMMON NAME	BOTANICAL NAME	CONDITION	COMMENTS	
SHADE TREES								
\$ + 3	LO	9	3" CALIPER 10'-12' HEIGHT 5'-6' SPREAD	LIVE OAK	QUERCUS VIRGINIANA	CONTAINER	FULL DENSE CANOPY; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
	CE	7	3" CALIPER 10' HEIGHT 6' SPREAD	CEDAR ELM	ULMUS CRASSIFOLIA	CONTAINER	FULL DENSE CANOPY; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
SMALL ORNAME	NTAL TREES							
·	RB	10	2" CALIPER 8' HEIGHT 4' SPREAD	EASTERN REDBUD	CERCIS CANADENSIS	CONTAINER	MEDIAN ONLY FULL DENSE CANOPY; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
·	LG	12	8' HEIGHT 4' SPREAD	LITTLE GEM SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	CONTAINER	MEDIAN ONLY FULL TO GROUND; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
·	NM	12	2" CALIPER 8' HEIGHT 4' SPREAD	SINGLE TRUNK 'NATCHEZ' CRAPE MYRTLE	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	CONTAINER	MEDIAN ONLY FULL DENSE CANOPY; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
EVERGREEN S	CREENING TREES							
	EC	34	10' HEIGHT 4' SPREAD	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	CONTAINER	FULL TO GROUND; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
	AP	17	8' HEIGHT 4' SPREAD	AUSTRIAN PINE	PINUS NIGRA	CONTAINER	FULL TO GROUND; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
	DW	12	7 GALLON 4'HEIGHT 3'SPREAD	DWARF WAX MYRTLE	MYRICA CERIFERA VAR. PUMILA	CONTAINER	FULL DENSE SHRUB; MATCH SELECTIONS FOR UNIFORM HEIGHT AND SPREAD	
SHRUBS/ORNA	MENTAL GRASSES/GROU	JND COVER	S.					
HYDRO-MULCH								
	NATIVE TRAIL MIX	31,280 SF	HYDRO-MULCH	NATIVE TRAIL MIX			AREAS IN MEDIAN	
	THUNDER TURF	21,720 SF	HYDRO-MULCH	THUNDER TURF			AREAS IN MEDIAN	
	POLLINATOR ESSENTIAL MIX	4,470 SF	HYDRO-MULCH	POLLINATOR ESSENTIAL MIX			AREAS IN MEDIAN	
TURF GRASS								
	BUFFALO GRASS	11,680 SF	SOLID SOD	BUFFALO GRASS	BOUTELOUA DACTYLOIDES		3' EITHER SIDE OF MULTI-USE TRAIL	

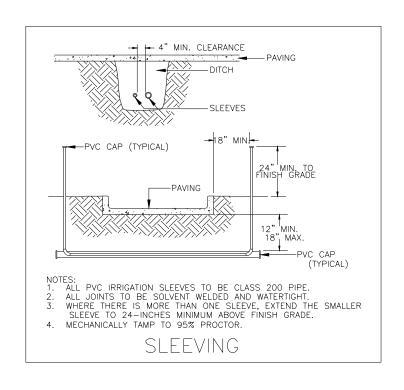


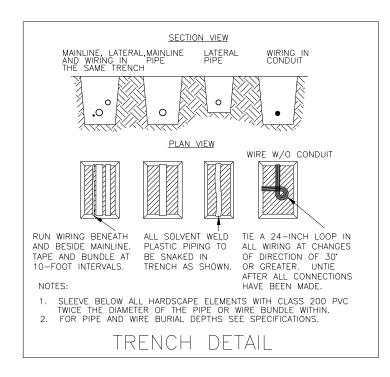


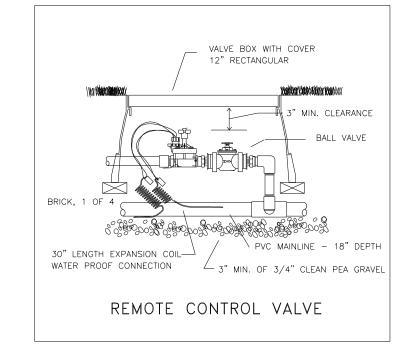


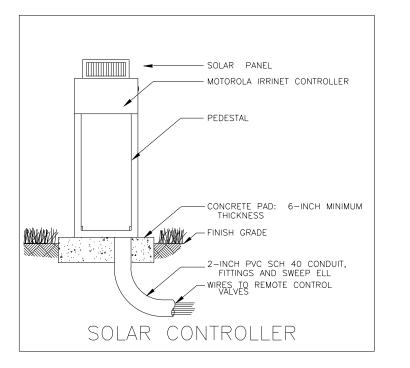










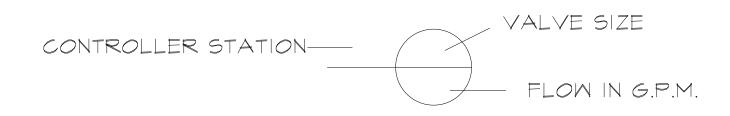


COORDINATION WITH EXISTING TREES

NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER I" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.

TEMPORARY IRRIGATION

THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.



LEGEND

- HUNTER RZWS-18-50-CV SERIES ROOT WATERING SYSTEM WITH .5 GPM PRESSURE COMPENSATING BUBBLER NOZZLES. PROVIDE TWO PER TREE, ON OPPOSITE SIDES OF ROOT BALL
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH DC LATCHING SOLENOID AND SAME SIZE PVC BALL VALVE
- HUNTER HQ-33-LRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- I" ZURN WILKINS 350 SERIES D.C.A. INSTALLED PER CITY CODE, WITH SAME SIZE 850 SERIES BRONZE BALL VALVE AND SXL BRONZE MYE FILTER WITH 20 MESH STAINLESS STEEL SCREEN
- I" IRRIGATION WATER METER AND TAP
- MOTOROLA IRRINET M SERIES 12-STATION PEDESTAL-MOUNT DC CONTROLLER ON CONCRETE PAD WITH HUNTER WIRELESS RAIN / FREEZE SENSOR. LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT.
- DWYER I" FLOW SENSOR INSTALLED PER MANUFACTURER'S INCLUDING WIRE TYPE / SIZE.
- CLASS 200 PVC MAINLINE PIPE

PAVEMENT, SIZE AS NOTED

- -- CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE - BORE BY L.I.C. WITH CLASS 200 SLEEVE PIPE AT EXISTING
- ___ CLASS 200 PVC SLEEVE PIPES AT PROPOSED PAVEMENT, SIZES AS NOTED



LANDSCAPE WATER MANAGEMENT TEXAS L.I.C. #658 P.O. BOX 1845 DENTON, TEXAS 76202

PHONE: 940.243.2364 CELL: 972.998.1719 james@jamespoleirrigation.com



IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISION ON ENVIRONMENTAL QUALITY (TCEQ) (MC-178) P.O. BOX 13087 T.C.E.Q.'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

FREESE

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IR2.01

INSTALLATION NOTES

- I. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
- 2. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES, AND WILL SECURE ALL REQUIRED PERMITS. L.I.C. SHALL PAY ANY ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN AND SHALL BE ADDRESSED BEFORE ANY CONSTRUCTION BEGINS.
- 3. CONFIRM MINIMUM STATIC WATER PRESSURE OF 60 PSI AT THE HIGHEST ELEVATION OF THE SYSTEM LIMITS, AND MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE LOWEST ELEVATION OF THE SYSTEM LIMITS AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS OUTSIDE THE RANGE STATED ABOVE, DO NOT PROCEED UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT.
- 4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN EXISTING TREE ROOT ZONES. WHEN HAND - TRENCHING WITHIN EXISTING TREE ROOT ZONES, NO ROOTS LARGER THAN I" DIAMETER SHALL BE CUT.
- 5. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPED AREAS.
- 6. THE SOLAR-POWERED CONTROLLER REQUIRES NO METERED ELECTRIC POWER.
- 7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". WIRE SPLICES SHALL INCLUDE DBY CONNECTORS AS MANUFACTURED BY 3M COMPANY. ALL FIELD SPLICES SHALL BE LOCATED IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION.
- 8. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3 INCHES OF CLEAN PEA GRAVEL LOCATED BELOW THE VALVE. USE 12" x 17" RECTANGULAR VALVE BOXES WITH PURPLE LID FOR QUICK COUPLING VALVES, AND WITH GREEN LID FOR ELECTRIC VALVES UNLESS NOTED OTHERWISE. D.C.A., WITH UPSTREAM BALL VALVE AND MYE FILTER SHALL BE BOXED AND LOCATED ACCORDING TO LOCAL CODE.
- 9. USE RIGID SCH. 80 PVC SWING JOINT ASSEMBLIES TO CONNECT ALL QUICK COUPLERS.
- 10. PROVIDE ONE QUICK COUPLER KEY WITH SMIVEL HOSE ELL.
- II. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- 12. THE PROPOSED LOCATIONS OF ALL VALVE BOXES, BACKFLOW PREVENTOR, CONTROLLER AND WEATHER SENSOR SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THESE ITEMS ARE INSTALLED.
- 13. IRRIGATION PIPES ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL ADJUST TO AVOID CONFLICTS, AND ALLOW A MINIMUM OF FOUR FEET OF SEPARATION BETWEEN THE MAINLINE PIPE AND THE ROOT BALL OF NEW TREES.
- 14. CONTACT MR. JAY JOHNSON AT INTERSPEC REGARDING PRICING AND ORDERING INFORMATION FOR MOTOROLA CONTROL AND DWYER FLOW SENSOR EQUIPMENT.

- 1. DESIGN IS IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE, LOCAL AMENDMENTS, AND APPLICABLE CODE REFERENCED STANDARDS.
- 2. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA, STATE, AND LOCAL REGULATIONS. THIS DESIGN IS NOT INTENDED TO CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS OR TO RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THESE REQUIREMENTS. IN CASE OF CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS, CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
- PRIOR TO FABRICATION OR CONSTRUCTION:
- A. REVIEW OTHER DISCIPLINE DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, ETCETERA, WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, ETCETERA.
- C. FIELD VERIFY (FV) ALL EXISTING CONDITIONS, DIMENSIONS AND LOCATIONS OF ALL EXISTING CONSTRUCTION AND
- NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN DISCIPLINES, CONSTRUCTABILITY ISSUES, OR EXISTING CONDITIONS.
- 4. REMOVE ALL ABANDONED FOUNDATIONS, UTILITIES, PIPELINES, ETCETERA THAT INTERFERE WITH NEW CONSTRUCTION.
- PROVIDE EXCAVATION SHORING TO PROTECT AND SUPPORT FOUNDATION SOILS UNDER EXISTING STRUCTURES.
- 6. THE STRUCTURE IS DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.
- PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF
- 8. THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

WALKWAY LOADS (SERVICE LEVEL)

- RISK CATEGORY: II
- DEAD LOAD: WEIGHT OF ALL CONSTRUCTION MATERIALS.
- LIVE LOAD: 100 PSF OR 2,000 LB AXLE (LOADS ARE NOT COINCIDENT).

- 1. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING IBC 2021, TABLE 1806.2, PRESUMPTIVE NET ALLOWABLE BEARING AND SLIDING RESISTANCE FOR A CLAY SUBSTRATE.
 - VERTICAL BEARING PRESSURE: 1,500 PSF
 - LATERAL BEARING PRESSURE: 100 PSF / FT
 - SLIDING RESISTANCE, COHESION: 130 PSF
- ACTUAL SUBSTRATE CONDITION AND PHYSICAL CHARACTERISTICS CONSISTENT WITH THE PRESUMPTIVE LOAD-BEARING VALUES SHALL BE VERIFIED BY A GEOTECHNICAL PROFESSIONAL ENGINEER. SUBMIT A REPORT, SIGNED AND SEALED BY THE GEOTECHNICAL ENGINEER, WHICH DOCUMENTS THE VERIFICATION. VERIFY PRIOR TO FABRICATION OR CONSTRUCTION.
- 3. ALL FOUNDATIONS SHALL BEAR ON SOUND, UNDISTURBED, LEVEL EXCAVATIONS. REMOVE ANY AND ALL LOOSE DEBRIS FROM EXPOSED BEARING SURFACE.
- 4. BRACE FOUNDATION WALLS UNTIL THE RESTRAINING SLABS ARE IN PLACE.

- 1. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH, F'c, OF OF 4,000 PSI AT 28-DAYS.
- 2. ALL REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60, DEFORMED.
- CONCRETE CLEAR COVER OVER REINFORCING SHALL BE AS LISTED BELOW, UNLESS NOTED OTHERWISE.
- A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
- B. ALL OTHER: 1 1/2"
- C. SEE DRAWINGS FOR EXCEPTIONS
- 4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE FORMS OR TOOLED TO 3/4" RADIUS ON SLABS UNLESS NOTED OTHERWISE.
- 5. ALL CONSTRUCTION JOINTS (CXJ) SHALL BE THOROUGHLY CLEANED AND PURPOSELY ROUGHENED TO 1/4" PRIOR TO PLACING
- 6. PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING, TEMPORARY BRACING AND SHORING.
- CONDUITS AND PIPING EMBEDDED IN CONCRETE SHALL BE SPACED A MINIMUM OF FOUR DIAMETERS AND THE OUTSIDE DIAMETER SHALL BE LESS THAN 30% OF THE MEMBER THICKNESS PLACED BETWEEN LAYERS OF REINFORCING.
- 9. UNLESS NOTED OTHERWISE, HOOKS SHOWN ON DRAWINGS SHALL BE ASSUMED TO BE STANDARD HOOKS PER ACI 318.
- 10. ALL REINFORCING SHALL BE CONTINUOUS. CONTINUOUS BARS SHALL LAP 48 BAR DIAMETERS OF SMALLER BAR LAPPED.

POST-INSTALLED ADHESIVE ANCHORS

- INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), BUT NOT LESS THAN THAT INDICATED BELOW.
- ADHESIVE ANCHORS SHALL ONLY BE INSTALLED BY CONSTRUCTION PERSONNEL CERTIFIED UNDER ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL. SUBMIT CERTIFICATIONS AS RECORD DATA PRIOR TO ANCHOR INSTALLATION.
- 3. ANCHOR DIAMETER AND EMBEDMENT SHALL BE AS INDICATED.
- HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WITH ANSI MATCHED TOLERANCE CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH DIAMETER RECOMMENDED BY MANUFACTURER. DRILL HOLES USING MANUFACTURER'S DUST EXTRACTION SYSTEM OR APPROVED EQUAL.
- USE CARE AND CAUTION WHEN INSTALLING TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING STEEL. FIELD VERIFY EXISTING REINFORCING LOCATIONS PRIOR TO FABRICATION OR CONSTRUCTION, AND THEN COORDINATE REBAR LOCATIONS WITH SHOP DRAWINGS.

- 6. ADHESIVE ANCHORS SHALL BE DEFORMED REINFORCING BARS (ASTM A615, GR 60) OR GALVANIZED THREADED ROD (ASTM F1554 GRADE 55, S-1), UNLESS NOTED OTHERWISE, AND AS NOTED BELOW:
 - A. ADHESIVE SHALL BE HILTI HIT-RE 500 V3, SIMPSON STRONG-TIE SET 3G, DEWALT PURE220+, OR AN APPROVED EQUAL.
 - B. PRIOR TO INSTALLATION: ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE, OR OTHER RESIDUE, IN ACCORDANCE WITH MPII.
 - C. VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.
 - D. INSTALL ADHESIVE STARTING AT BACK OF HOLE. AS REQUIRED BY MPII, USE MANUFACTURER SUPPLIED PISTON PLUG INJECTION SYSTEM FOR ALL HORIZONTAL AND VERTICALLY INCLINED HOLES.
 - E. INSTALL ANCHOR BY SIMULTANEOUSLY TWISTING AND INSERTING INTO HOLE.
 - F. ALLOW ANCHOR TO SET REQUIRED TIME. DO NOT DISTURB.
- G. TIGHTEN NUT. DO NOT OVER-TORQUE.
- H. MINIMUM CONCRETE AGE AT TIME OF INSTALLATION: 28 DAYS.
- CONCRETE TEMPERATURE RANGE AT TIME OF INSTALLATION SHALL BE: 41DEG F TO 104DEG F.
- J. CONCRETE MOISTURE CONDITION AT TIME OF INSTALLATION: DRY.

STRUCTURAL & MISCELLANEOUS STEEL

- STEEL MATERIAL SHALL BE IN ACCORDANCE WITH THE FOLLOWING UNLESS NOTED OTHERWISE:
 - A. CHANNELS: ASTM A992
- PLATES & ANGLES: ASTM A572, GRADE 50
- HSS (ROUND OR RECTANGULAR): ASTM A500, GRADE C
- ANCHOR RODS: ASTM F1554, GRADE 55, S-1 WELDABLE
- 2. ALL STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND A153. REPAIR DAMAGED GALVANIZING WITH ZRC WORLDWIDE GALVILITE GALVANIZING REPAIR COMPOUND. APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM A780. PROVIDE TWO 1.5MIL DFT COATS - 3.0MIL MINIMUM TOTAL DFT.
- 3. WELDING SHALL BE PERFORMED WITH E70XX LOW-HYDROGEN ELECTRODES
- 4. ALL WELDS SHALL BE SHOP WELDS.
- 5. NO HOLES SHALL BE CUT THROUGH STEEL FRAMING IN FIELD UNLESS APPROVED BY THE ENGINEER.

STRUCTURAL MODIFICATIONS

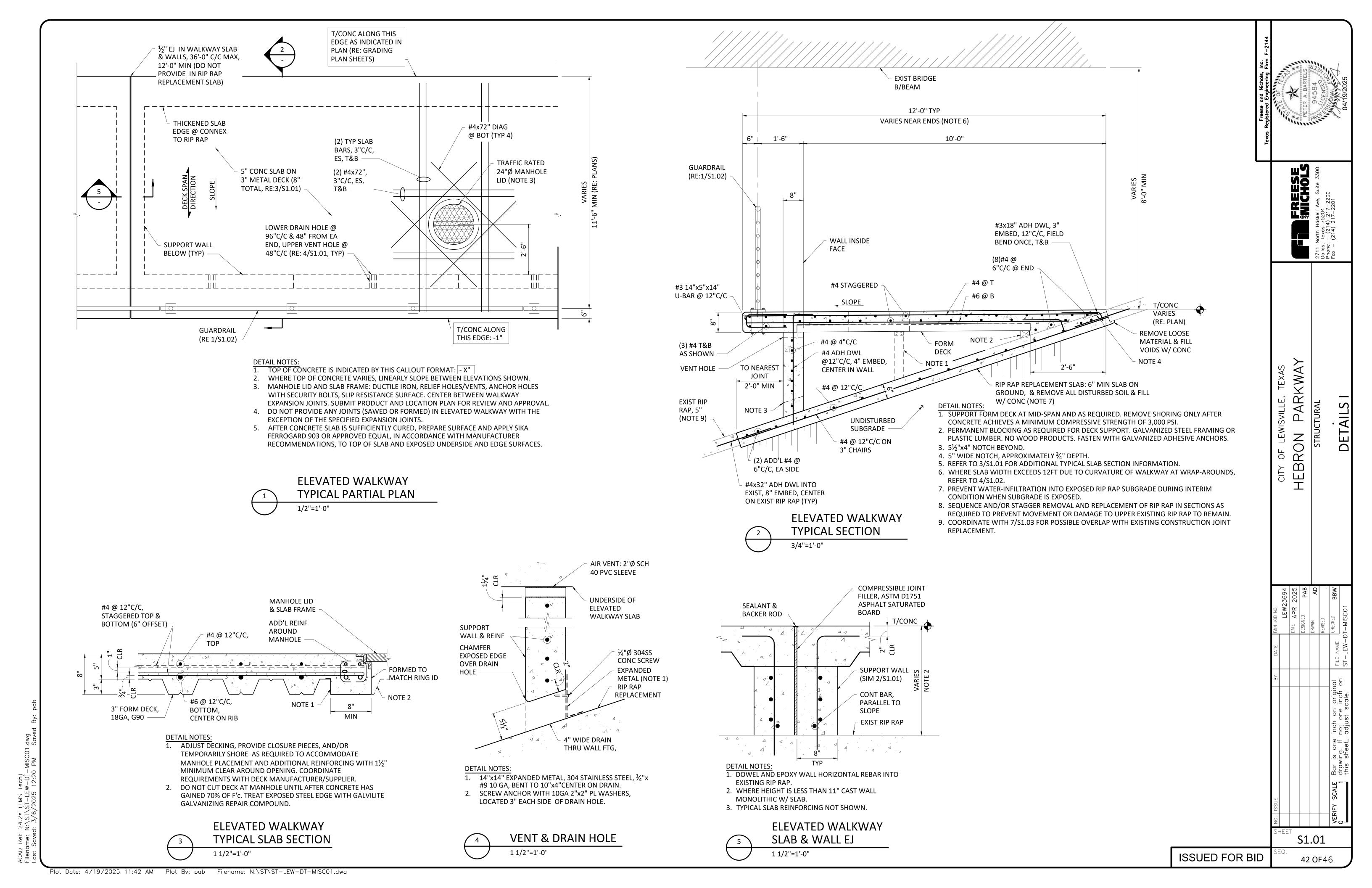
- 1. REFER TO OTHER DISCIPLINE DRAWINGS FOR RELOCATION AND DEMOLITION OF PIPING, CONDUITS, FIXTURES, INSTRUMENTS, ETC. ASSOCIATED WITH STRUCTURES SHOWN TO BE DEMOLISHED.
- 2. ALL DEMOLITION, REMOVAL AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH CONSIDERATION FOR EXISTING FACILITIES STRUCTURES, EQUIPMENT, ETCETERA. ANY DAMAGE WHICH MAY OCCUR BEYOND DESCRIBED DEMOLITION AND CONSTRUCTION SHALL BE REMEDIED AT CONTRACTOR'S EXPENSE AND OWNER/ENGINEER NOTIFIED.
- UNLESS NOTED OTHERWISE ON PLANS, CUTTING EMBEDDED REBAR DUE TO PIPING, CONDUITS OR ANY OTHER PENETRATION THROUGH EXISTING CONCRETE STRUCTURE IS PROHIBITED. CONTRACTOR SHALL DETECT THE EXISTING REBAR LOCATIONS BY NONDESTRUCTIVE TESTING METHODS AND KEEP PENETRATION AWAY FROM THE EMBEDDED REBARS.
- 4. WHERE DEMOLITION OF EXISTING CONCRETE WILL LEAVE EMBEDDED EXISTING REBARS EXPOSED, AN ADDITIONAL $1\frac{1}{2}$ " CONCRETE AND REINFORCEMENT BEYOND LIMITS OF THE DEMOLITION SHALL BE REMOVED. THE $1\frac{1}{2}$ " AREAS BEING REMOVED SHALL THEN BE PLACED BACK WITH CONCRETE STRUCTURAL REPAIR MATERIAL AS SPECIFIED TO PROVIDE CORROSION PROTECTION FOR THE EXPOSED EXISTING REBAR, UNLESS NOTED OTHERWISE ON PLAN.
- 5. AT ALL CONSTRUCTION JOINTS WITH EXISTING CONCRETE, ROUGHEN THE EXISTING CONCRETE PER TYPICAL CONSTRUCTION JOINT NOTE REQUIREMENTS.
- 6. ALL EXPOSED EXISTING REBAR SHALL BE CLEANED BY ABRASIVE BLASTING AND COATED WITH AN EPOXY RESIN/PORTLAND CEMENT ADHESIVE BONDING AGENT TO PROVIDE CORROSION PROTECTION.

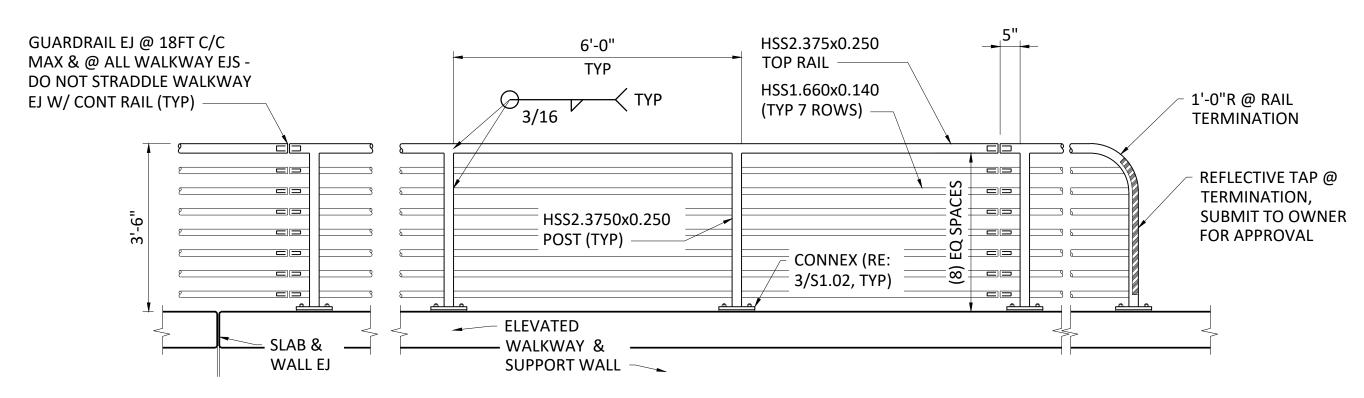
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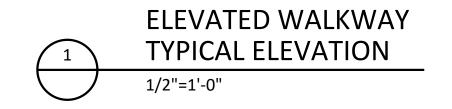
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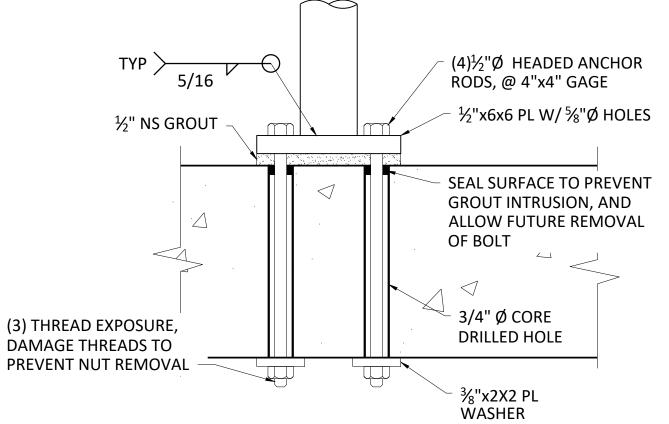




DETAIL NOTES:

- 1. GUARDRAIL POSTS SHALL BE VERTICAL. RAILS SHALL BE PARALLEL TO WALKWAY SURFACE.
- 2. GUARDRAIL POST TO TOP RAIL CONNECTIONS SHALL HAVE A NOMMA #1 FINISH. ALL OTHER WELDS SHALL HAVE A NOMMA #3 FINISH.
- 3. GUARDRAIL EJ: ½" GAP, WITH 6" LONG INTERNAL PIPE/ROD CENTERED ON GAP. PROVIDE MEANS TO SECURE INTERNAL PIPE/ROD TO ONE SIDE OF JOINT WITH 304SS TAMPER RESISTANT, COUNTERSUNK SCREWS. INTERNAL PIPE/ROD OD SHALL MATCH RAIL ID LESS A MAXIMUM OF ¾6".

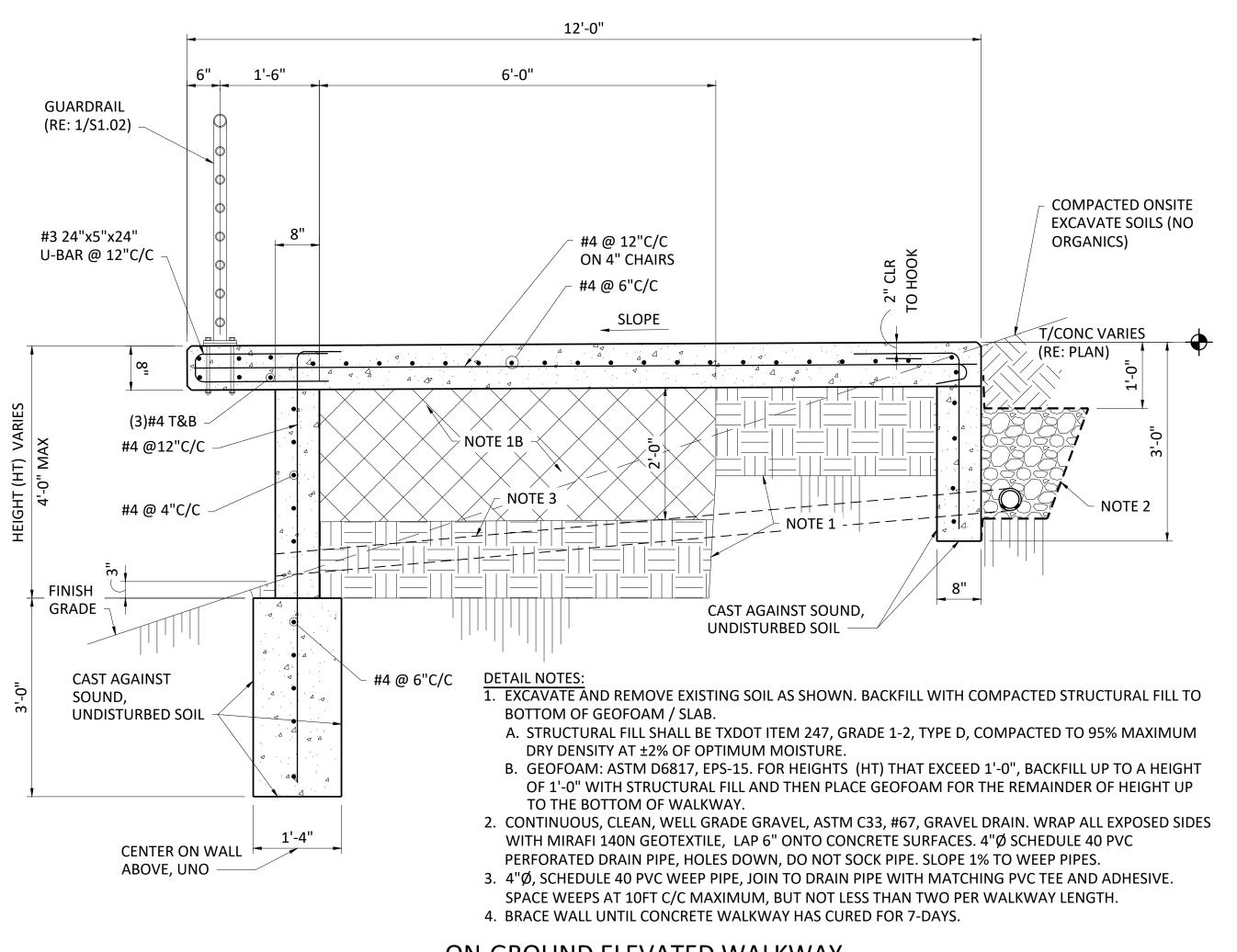




DETAIL NOTES:

- 1. LOCATE REINFORCING AROUND PROPOSED CORED HOLES FOR ANCHOR RODS. PROVIDE 1½" CLEAR BETWEEN EDGE OF CORED HOLE AND REINFORCING BARS ON ALL SIDES.
- 2. AT CONTRACTOR'S OPTION PROVIDE 1"Ø PVC SLEEVE IN LIEU OF CORE DRILLED HOLES SHOWN.



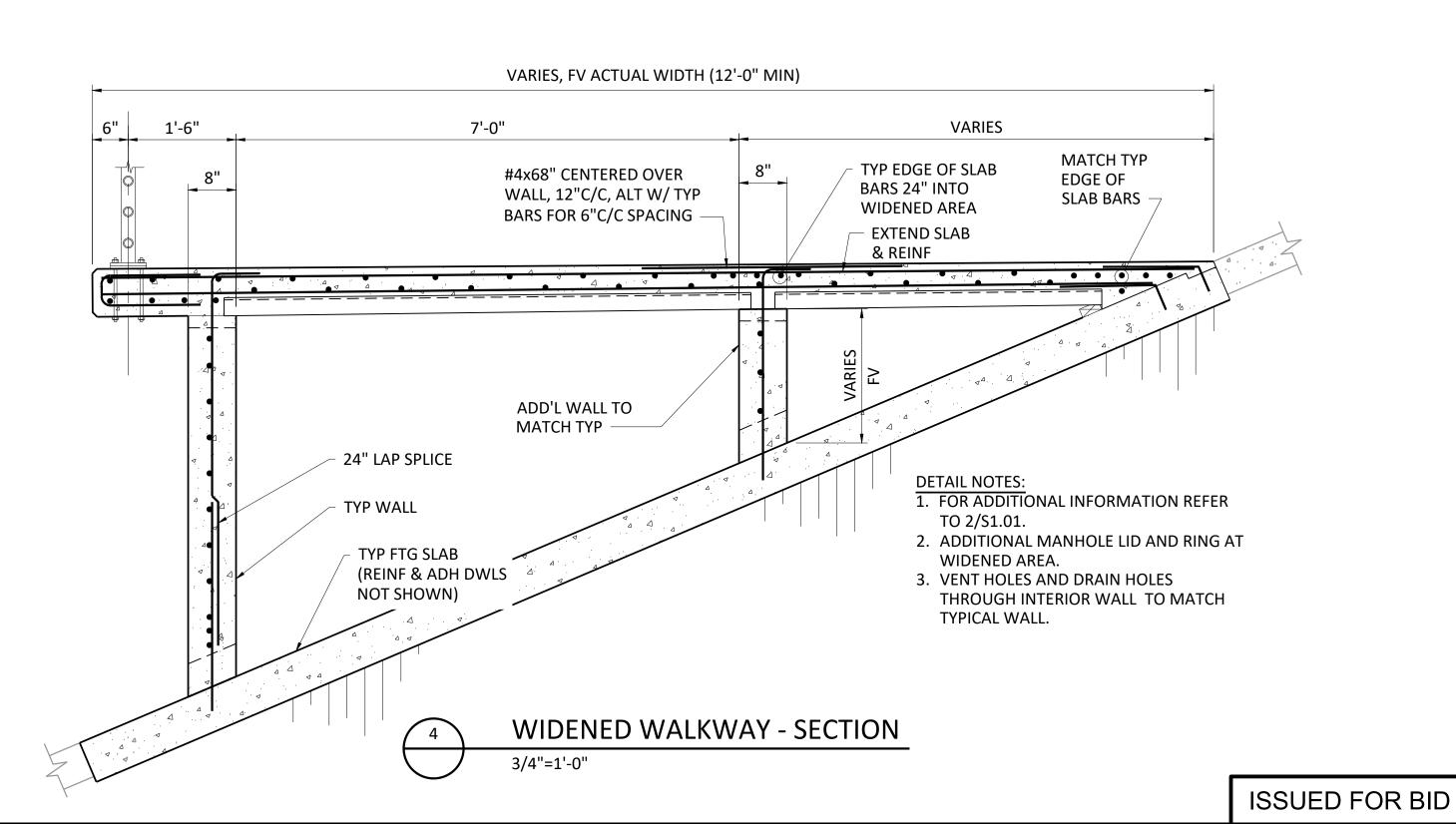


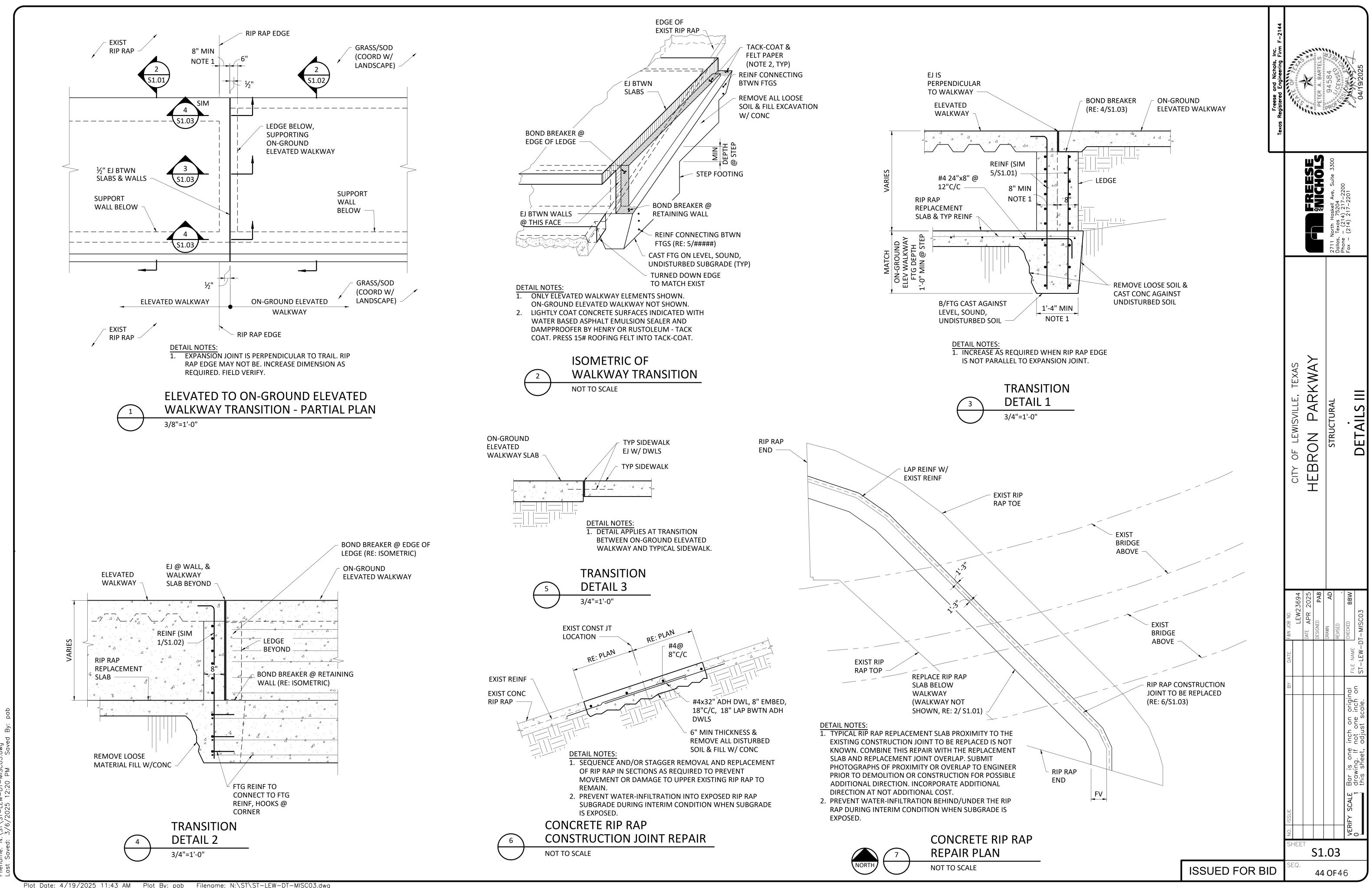
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