

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



LOCATION MAP

N. T. S.

DESIGNER:

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



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

SHEET INDEX	
SHEET #	SHEET TITLE
GN0.01	CITY OF LEWISVILLE GENERAL NOTES
GN0.02	CITY OF LEWISVILLE GENERAL NOTES
GN0.03	SITE ORIENTATION PLAN
L0.01	EXISTING CONDITIONS AND DEMOLITION PLAN - AREAS 1 & 2
L0.02	EXISTING CONDITIONS AND DEMOLITION PLAN - AREAS 3 & 4
L0.03	EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 5
L0.04	EXISTING TREE SURVEY PLAN
L0.05	EXISTING TREE SURVEY PLAN
EC1.01	EROSION CONTROL PLAN - AREA 1 & 2
EC1.02	EROSION CONTROL PLAN - AREA 3 & 4
EC1.03	EROSION CONTROL PLAN - AREA 5
EC2.01	EROSION CONTROL DETAILS
L1.01	MULTI-USE TRAIL LAYOUT PLAN - AREAS 1 & 2
L1.02	MULTI-USE TRAIL LAYOUT PLAN - AREAS 3 & 4
L1.03	MULTI-USE TRAIL LAYOUT PLAN - AREA 5
L1.04	MULTI-USE TRAIL CURVE DATA AND COORDINATES
L1.05	MULTI-USE TRAIL ENLARGEMENT PLANS
L2.01	MULTI-USE TRAIL GRADING PLAN - AREA 1 & 2
L2.02	MULTI-USE TRAIL GRADING PLAN - AREA 3 & 4
L2.03	MULTI-USE TRAIL GRADING PLAN - AREA 5
L3.01	MULTI-USE TRAIL LANDSCAPE PLANTING PLAN - AREAS 1 & 2
L3.02	MULTI-USE TRAIL LANDSCAPE PLANTING PLAN - AREAS 3 & 4
L3.03	MULTI-USE TRAIL LANDSCAPE PLANTING PLAN - AREA 5
L4.01	CITY OF LEWISVILLE STANDARD PAVING DETAILS-1
L4.02	CITY OF LEWISVILLE STANDARD PAVING DETAILS-2
L4.03	CITY OF LEWISVILLE STANDARD PAVING DETAILS-3
L4.04	CITY OF LEWISVILLE STANDARD PAVING DETAILS-4
L4.05	CITY OF LEWISVILLE STANDARD PAVING DETAILS-5
L4.06	SITE DETAILS-1
L4.07	WAY FINDING SIGN DETAILS
L4.08	MULTI-USE TRAIL DETAILS
L4.09	TYPICAL SECTIONS
L5.01	LANDSCAPE PLANTING DETAILS
L5.02	LANDSCAPE PLANTING DETAILS
L5.03	PLANT LIST
IR1.01	IRRIGATION PLAN - AREAS 1 & 2
IR1.02	IRRIGATION PLAN - AREAS 3 & 4
IR1.03	IRRIGATION PLAN - AREA 5
IR2.01	IRRIGATION DETAILS
S0.01	UNDERPASS STRUCTURAL GENERAL NOTES
S1.01	UNDERPASS STRUCTURAL DETAILS 1
S1.02	UNDERPASS STRUCTURAL DETAILS 2
S1.03	UNDERPASS STRUCTURAL DETAILS 3
E1.01	PEDESTRIAN LIGHT SOLAR DETAILS
E1.02	PEDESTRIAN LIGHT FIXTURE DETAILS

Date: Apr 23, 2025 -- 1:39pm User: 08056e: N:\LA\Drawings\L-PL-COVER.dwg

ACAD_Ret: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L--GN01.dwg
Last Saved: 4/22/2025 10:57 AM
Saved By: mjm

CITY OF LEWISVILLE GENERAL NOTES

1.

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.
2.

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.
3.

ANY TESTING THAT FAILS TO MEET CITY OF LEWISVILLE REQUIREMENTS SHALL BE RE-TESTED AT THE CONTRACTOR'S EXPENSE.
4.

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.
5.

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.
8.

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)

UTILITY LINE LOCATOR

VERIZON BUSINESS

FRONTIER

TEXAS NEW MEXICO POWER

UTRWD

ONCOR (TRANSMISSION)

ATMOS

AT&T (LEGACY)

SPECTRUM

GRANDE COMMUNICATIONS

972-219-3510

800-DIG-TESS

972-729-6404

972-318-5186

972-420-4189x4114

972-219-1228

817-215-6237

214-206-2717

214-821-9846

214-320-7576

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

CITY OF LEWISVILLE FIRE AND RESCUE DEPARTMENT

CITY OF LEWISVILLE POLICE DEPARTMENT

US POSTAL SERVICE

972-221-4557

972-219-3580

972-219-3600

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 BAGGED.
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 PAVEMENT.

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.

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



Freese and Nichols
2711 North Hagel Ave., Suite 3300
Dallas, Texas 75244
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS

HEBRON PARKWAY

LANDSCAPE ARCHITECTURE

TRAN JOB NO. LEW23694

DATE APR 2025

DESIGNED MLM

DRAWN JMWST

REVISED

CHECKED JHH

FILE NAME L--GN01

NO. ISSUE

VERIFIED SCALE 1" = 10' 0'

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SHEET

GN0.01

SEQ.

2 OF 46

ISSUED FOR BID

ACAD_Ret: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-GN02.dwg
Last Saved: 3/4/2025 9:45 AM Saved By: 08457

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.
- 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.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 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.
- 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.
- 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.
- 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 1 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.
- THE PHASING PLAN SHOWN IN THESE PLANS ARE FOR BIDDING PURPOSES ONLY. AN ALTERNATE PLAN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 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.
- PAYMENT FOR TRAFFIC CONTROL WILL BE PRO-RATED ON A MONTHLY BASIS FOR THE DURATION OF THE PROJECT.

STORM DRAINAGE NOTES

- 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.
- PIPE MUST BE KEPT CLEAN OF BROKEN CONCRETE, DIRT, OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
- POSITIVE DRAINAGE MUST BE MAINTAINED DURING CONSTRUCTION.

EROSION & SEDIMENTATION CONTROL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE TCEQ’S TPDES REGULATIONS CONCERNING EROSION AND SEDIMENT CONTROL.
- 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.
- 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:

- 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.
- FIRE HYDRANT TO BE RE-INSTALLED SO THAT THE SIGNAL MAST DOES NOT INTERFERE WITH THE COUPLING.

CITY OF LEWISVILLE, TX LANDSCAPE STANDARD NOTES:

- 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 SUBDIVISIONS.
- 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.
- AN AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL LANDSCAPING AND SHALL MEET THE REQUIREMENTS IN SECTION VIII.3.3.K, BELOW.
- 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.
- 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.
- 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.
- 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.

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





2711 North Hagell Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE

CITY OF LEWISVILLE GENERAL NOTES

F&N JOB NO.
LEW23694

DATE
APR 2025

DESIGNED
MLM

DRAWN
JWST

REVISED

CHECKED
JHH

BY

DATE

FILE NAME
L-GN02

NO.

ISSUE

0

1

VERIFY SCALE
Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

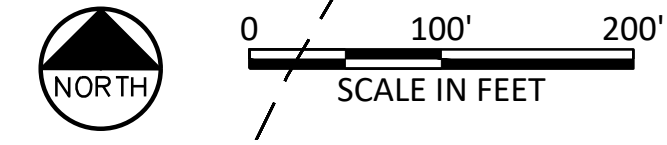
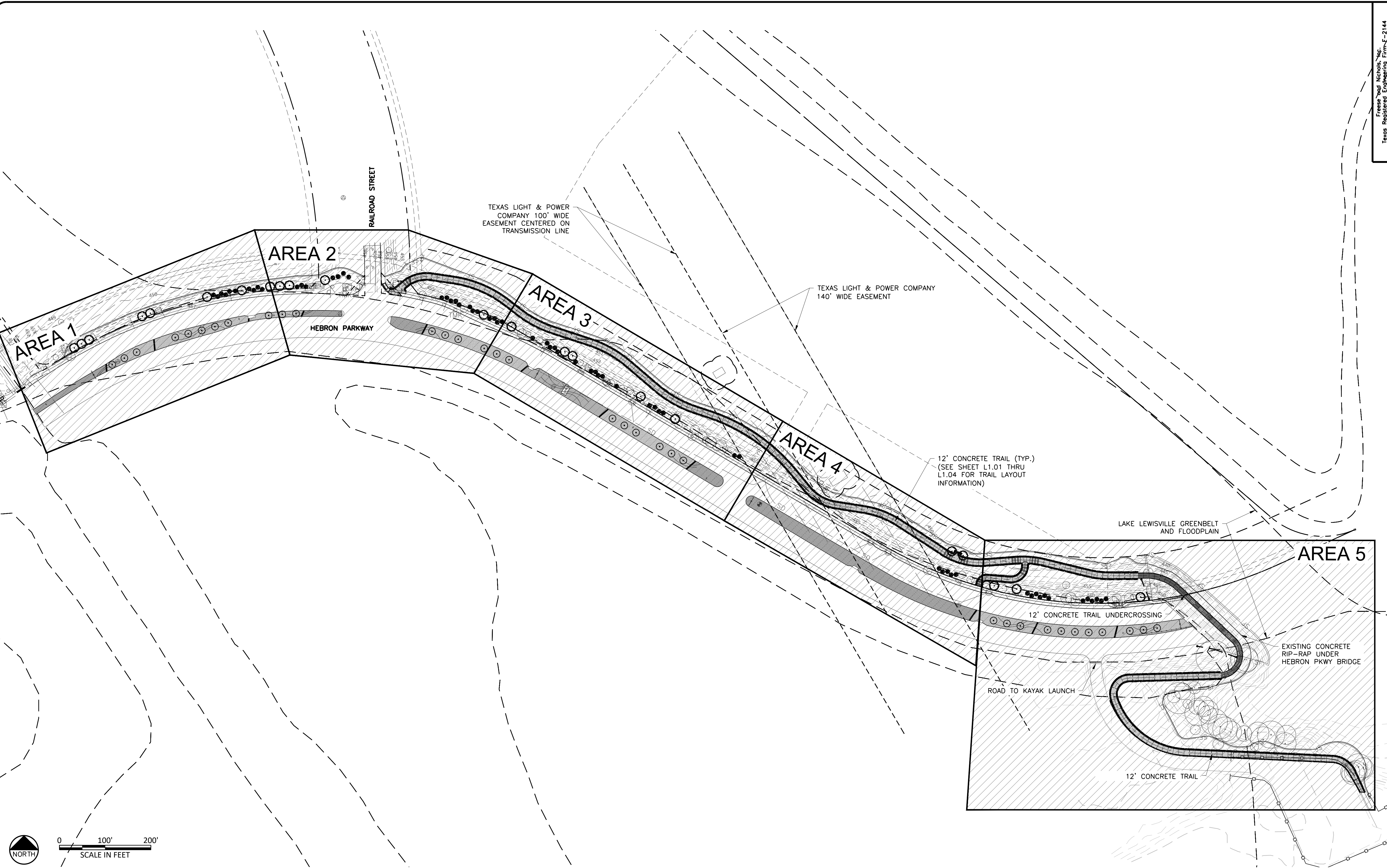
SHEET
GN0.02

SEQ.
3 OF 46

ISSUED FOR BID

Plot Date: 4/23/2025 1:41 PM Plot By: 08036 Filename: N:\LA\Drawings\L-GN02.dwg

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\LA-PL-ORIENT.dwg
Last Saved: 3/5/2025 5:23 PM Saved By: 08457



Freese & Nichols, Inc.
Texas Registered Engineering Firm E-2144

Matthew Nichols
04/29/2025

2711 North Haskell Ave, Suite 3300
Lewisville, Texas 75044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE

SITE ORIENTATION PLAN

NO.	ISSUE	BY	DATE	PER JOB NO.	DATE	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME
				LEW23694	APR 2025	MLM	JWST		JHH	L-PL-ORIENT

VERIFY SCALE

Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

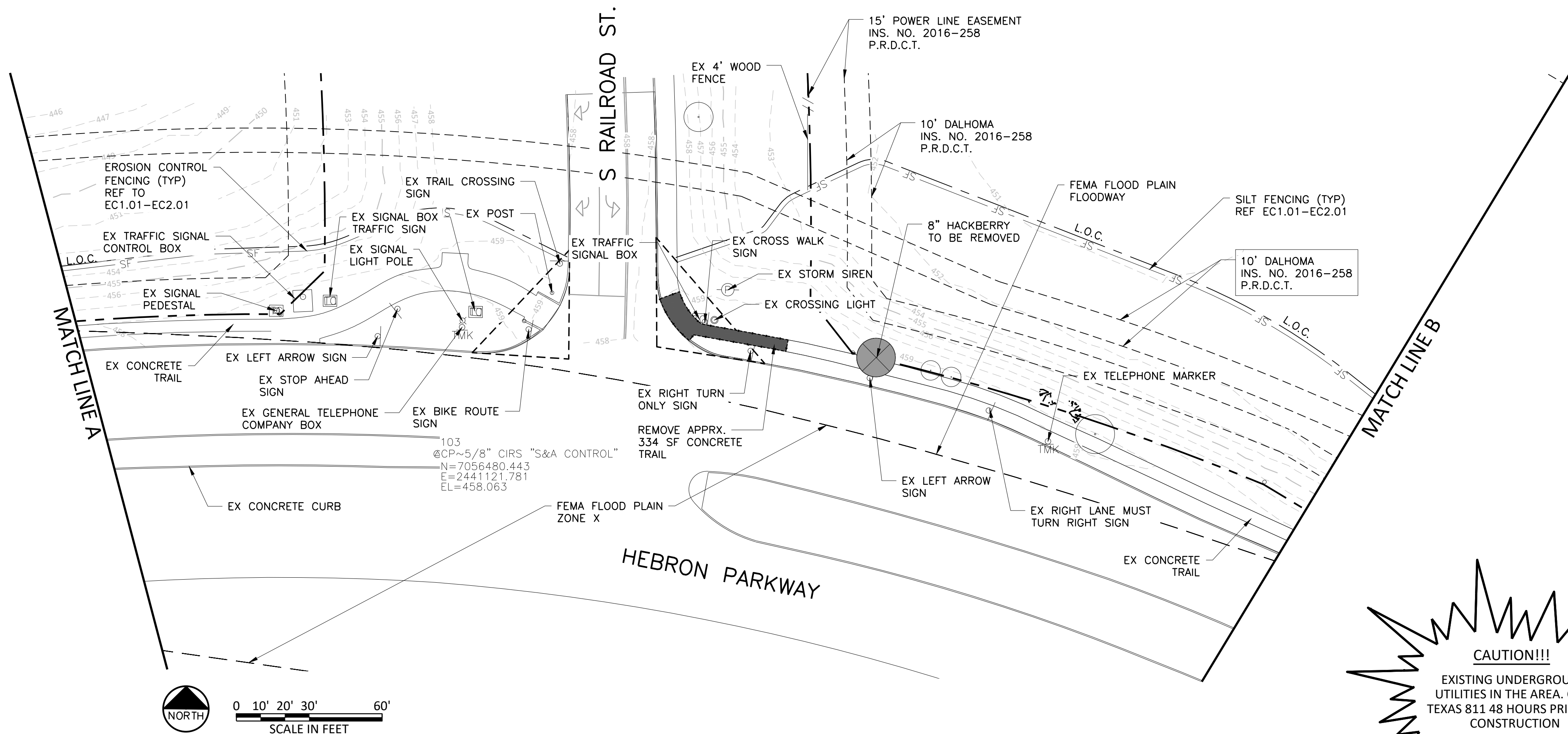
0 1

SHEET

GN0.03

ISSUED FOR BID

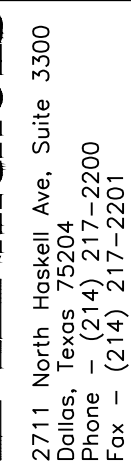
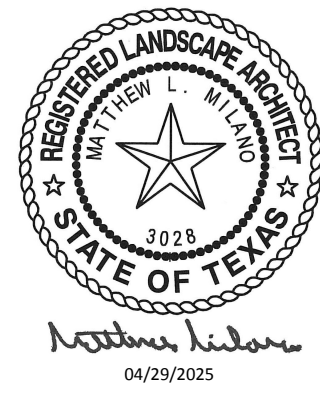
SEQ. 4 OF 46



10' DALHOMA
INS. NO. 2016-258
P.R.D.C.T.

CONTROL POINTS & BENCHMARKS - AREA 1				
CP#	ELEVATION	NORTHING	EASTING	NOTES
103	458.063	7056480.44	2441121.781	
104	454.892	7056375.807	2440635.457	

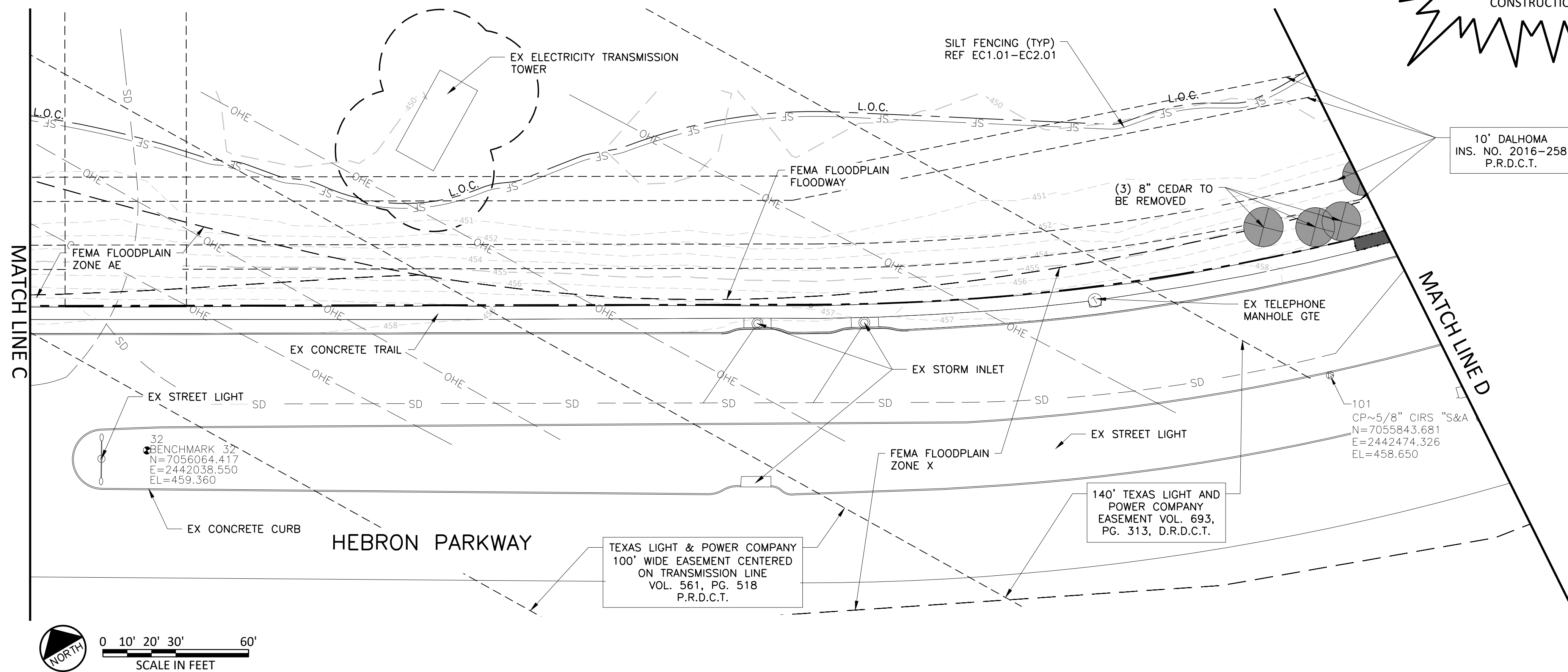
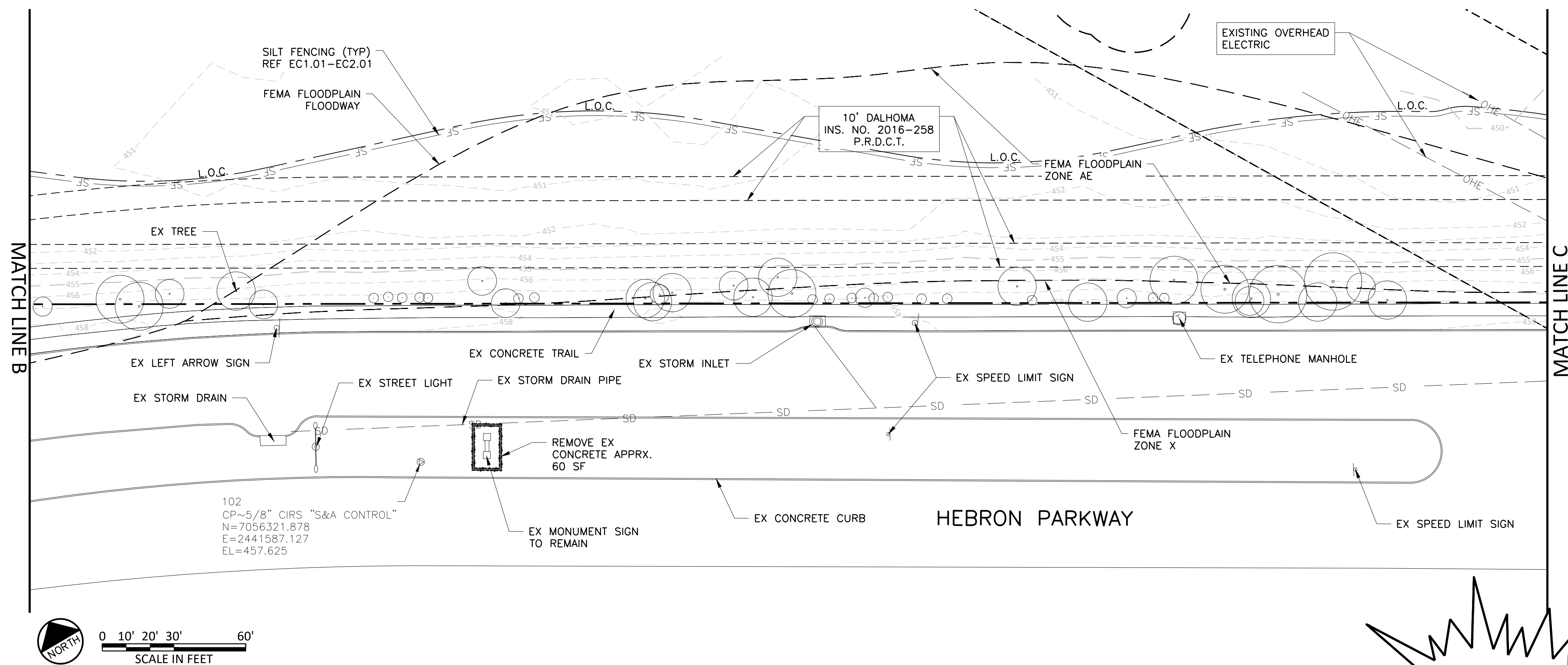
EXISTING UNDERGROUND
UTILITIES IN THE AREA. CALL
TEXAS 811 48 HOURS PRIOR TO
CONSTRUCTION



CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
EXISTING CONDITIONS AND
DEMOLITION PLAN – AREAS 1 & 2

NO.	ISSUE	BY	DATE	F&N JOB NO.
				LEW23694
				DATE APR 2025
				DESIGNED MLM
				DRAWN
				JMST
				REVISED
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.				FILE NAME
0	1			L-PL-Demo
				CHECKED
				JHH

SHEET
L0.01
SEQ.
5 OF 4



SURVEY NOTE:

THE EXISTING INFORMATION DEPICTED HEREON, PROVIDED BY SURVEY AS
PREPARED BY SPOONER & ASSOCIATES, INC.

CONTRACTOR TO VERIFY ACCURACY OF INFORMATION SHOWN AS EXISTING
PRIOR TO BEGINNING CONSTRUCTION.

THE COORDINATES AND ELEVATIONS ARE BASED UPON STATE PLANE COORDINATE SYSTEM, NAD 83, TEXAS NORTH CENTRAL ZONE, NAVD 88 ACQUIRED FROM GLOBAL POSITIONING SYSTEM OBSERVATIONS. THE COORDINATES SHOWN HEREON ARE SURFACE COORDINATES WITH AN AVERAGE COMBINED SCALE FACTOR OF 1.00015164. (SURF X CSF = GRID)

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NOTE: BY GRAPHIC PLOTTING ONLY THIS PROPERTY IS IN FEMA "OTHER AREAS" ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 48453C0205H, WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 26, 2008. THIS FLOOD STATEMENT DOES NOT IMPLY THAT THIS TRACT WILL, OR WILL NOT FLOOD, NOR DOES IT CREATE ANY LIABILITY IN SUCH EVENT ON THE PART OF THIS SURVEYOR OR COMPANY.

EXPLANATION OF FEMA ZONES:
FEMA "OTHER AREAS" ZONE X = AREAS DETERMINED TO BE OUTSIDE OF
THE 0.2% ANNUAL CHANCE FLOODPLAIN.

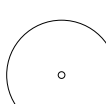
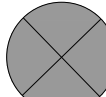
RESEARCH AND MAPPING OF UNDERGROUND UTILITIES IS NOT A PART OF THIS SURVEY.

THIS IS NOT A BOUNDARY SURVEY. BOUNDARY LINES SHOWN ARE AN APPROXIMATE DEPICTION OF RECORD DATA.

NOTES:

1. REFER TO SHEET L1.01 THRU L1.05 FOR LAYOUT INFORMATION.
2. PROVIDE EROSION CONTROL MEASURES AS NECESSARY. SEE SHEET EC1.01 THRU EC1.03.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL FRANCHISE AND CITY UTILITIES AND FOR THE LOCATION AND MARKING OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES IN THIS AREA PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT DCTA AND SCHEDULE RAILROAD SAFETY FLAGGERS WHEN WORKING IN RR R.O.W.

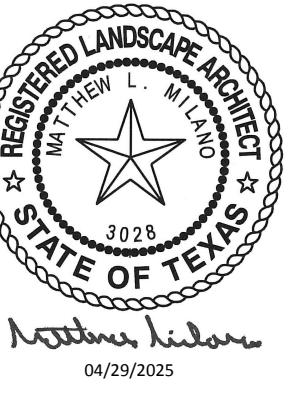
LEGEND :

- | | |
|---|--|
|  | CONTROL POINT & BENCHMARK
(SIZE/TYPE NOTED) |
|  | EDGE OF EXISTING PAVEMENT |
|  | PROPERTY LINE |
|  | EXISTING GRADE CONTOUR |
|  | EXISTING TREE TO REMAIN |
|  | EXISTING TREE TO BE REMOVED |
|  | TREE PROTECTION FENCE
(SEE SHEET L4.09 FOR DETAILS) |
|  | EXISTING CONCRETE TO BE REMOVED |
|  | OVERHEAD UTILITIES |
|  | UNDERGROUND UTILITIES |
|  | EXISTING EASEMENTS |

BENCHMARK:

THE FOLLOWING MONUMENTS EXIST ALONG THE SURVEY TRAVERSE AND ARE THE BASIS FOR HORIZONTAL AND VERTICAL DATA HERON.

CONTROL POINTS & BENCHMARKS — AREA 1				
CP#	ELEVATION	NORTHING	EASTING	NOTES
101	458.650	7055843.68	2442474.326	
102	457.625	7056321.878	2441587.127	
BM#	ELEVATION	NORTHING	EASTING	
32	459.360	7056064.417	2442038.550	



Dallas, Texas 75204
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS

HEBRON PARKWAY

LANDSCAPE ARCHITECTURE

**EXISTING CONDITIONS AND
DEMOLITION PLAN - AREAS 3 & 4**

NO.	ISSUE	BY	DATE	FILE NAME
				L-PL-Demo
VERIFY SCALE: Bar is one inch on original drawing. If not one inch on this sheet, adjust scale. 0 _____ 1				
				JFH
				CHECKED
				REVISED
				DRAWN
				MLM
				DESIGNED
				DATE
				APR 2025
				FILE
				LEW23694
				F&N JOB NO.

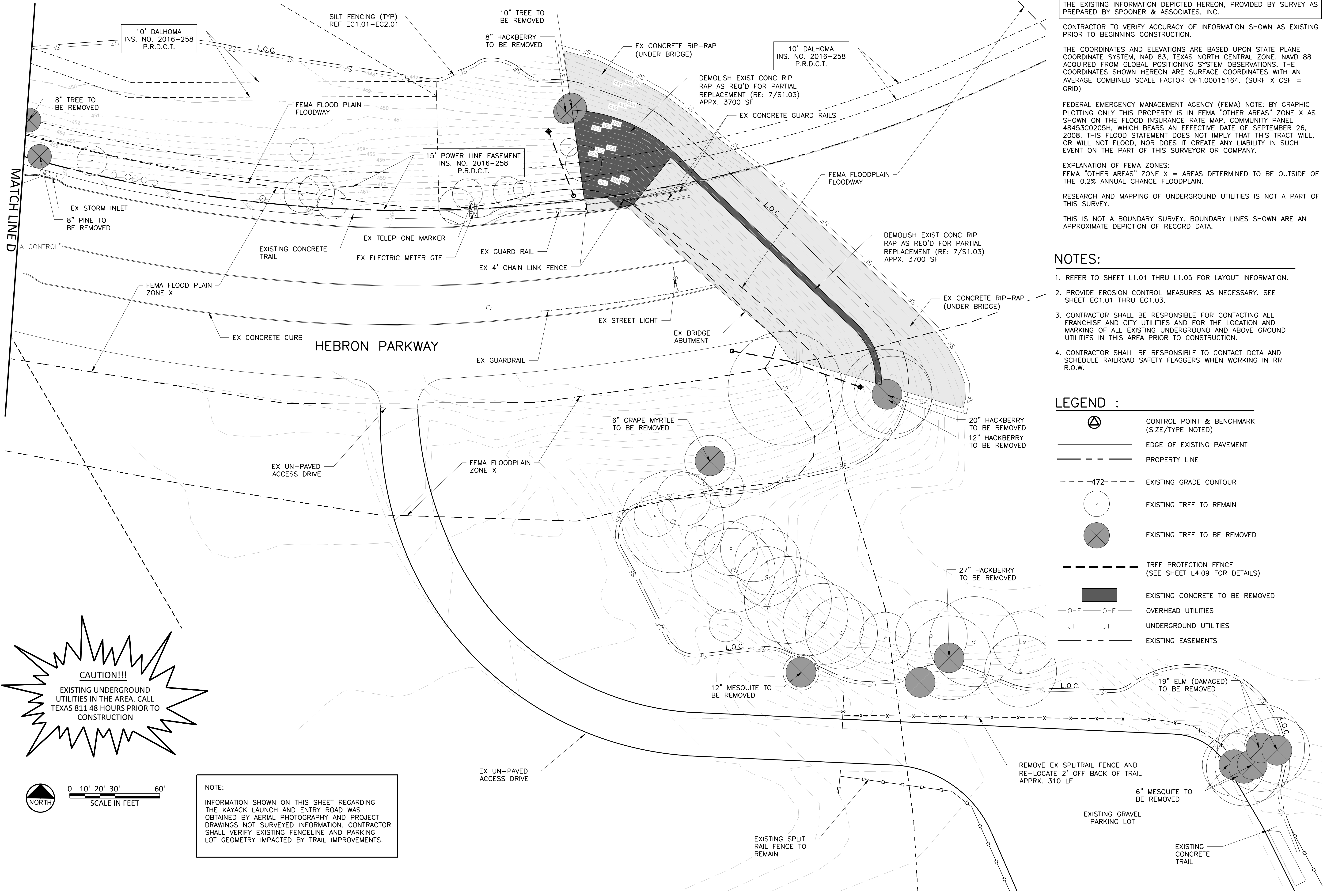
L0.02

ISSUED FOR BID

SEQ.

6 OF 46

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Demo.dwg
Last Saved: 4/22/2025 5:29 PM
Saved By: mm



SURVEY NOTE:

THE EXISTING INFORMATION DEPICTED HEREON, PROVIDED BY SURVEY AS PREPARED BY SPOONER & ASSOCIATES, INC.

CONTRACTOR TO VERIFY ACCURACY OF INFORMATION SHOWN AS EXISTING PRIOR TO BEGINNING CONSTRUCTION.

THE COORDINATES AND ELEVATIONS ARE BASED UPON STATE PLANE COORDINATE SYSTEM, NAD 83, TEXAS NORTH CENTRAL ZONE, NAVD 88 ACQUIRED FROM GLOBAL POSITIONING SYSTEM OBSERVATIONS. THE COORDINATES SHOWN HEREON ARE SURFACE COORDINATES WITH AN AVERAGE COMBINED SCALE FACTOR OF 1.00015164. (SURF X CSF = GRID)

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NOTE: BY GRAPHIC PLOTTING ONLY THIS PROPERTY IS IN FEMA "OTHER AREAS" ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 48453C0205H, WHICH BEARS AN EFFECTIVE DATE OF SEPTEMBER 26, 2008. THIS FLOOD STATEMENT DOES NOT IMPLY THAT THIS TRACT WILL, OR WILL NOT FLOOD, NOR DOES IT CREATE ANY LIABILITY IN SUCH EVENT ON THE PART OF THIS SURVEYOR OR COMPANY.

EXPLANATION OF FEMA ZONES:
FEMA "OTHER AREAS" ZONE X = AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

RESEARCH AND MAPPING OF UNDERGROUND UTILITIES IS NOT A PART OF THIS SURVEY.

THIS IS NOT A BOUNDARY SURVEY. BOUNDARY LINES SHOWN ARE AN APPROXIMATE DEPICTION OF RECORD DATA.

NOTES:

1. REFER TO SHEET L1.01 THRU L1.05 FOR LAYOUT INFORMATION.
2. PROVIDE EROSION CONTROL MEASURES AS NECESSARY. SEE SHEET EC1.01 THRU EC1.03.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL FRANCHISE AND CITY UTILITIES AND FOR THE LOCATION AND MARKING OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES IN THIS AREA PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT DCTA AND SCHEDULE RAILROAD SAFETY FLAGGERS WHEN WORKING IN RR R.O.W.

LEGEND :

- CONTROL POINT & BENCHMARK (SIZE/TYPE NOTED)
- EDGE OF EXISTING PAVEMENT
- PROPERTY LINE
- 472- EXISTING GRADE CONTOUR
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE (SEE SHEET L4.09 FOR DETAILS)
- EXISTING CONCRETE TO BE REMOVED
- OHE OHE OVERHEAD UTILITIES
- UT UT UNDERGROUND UTILITIES
- EXISTING EASEMENTS

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



FREESE & NICHOLS
LANDSCAPE ARCHITECTURE
2711 North Hagel Ave., Suite 3300
Dallas, Texas 75219
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
**EXISTING CONDITIONS AND
DEMOLITION PLAN - AREA 5**

PROJ. NO.	LEW23694	DATE	APR 2025	DESIGNED	MLM	DRAWN	JWST	REVIEWED	JHH	CHECKED	JHH
NO.	ISSUE	BY	DATE	L-PL-Demo							
SHEET											

VERIFY SCALE

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

0

1

ISSUED FOR BID

SEQ. 7 OF 46

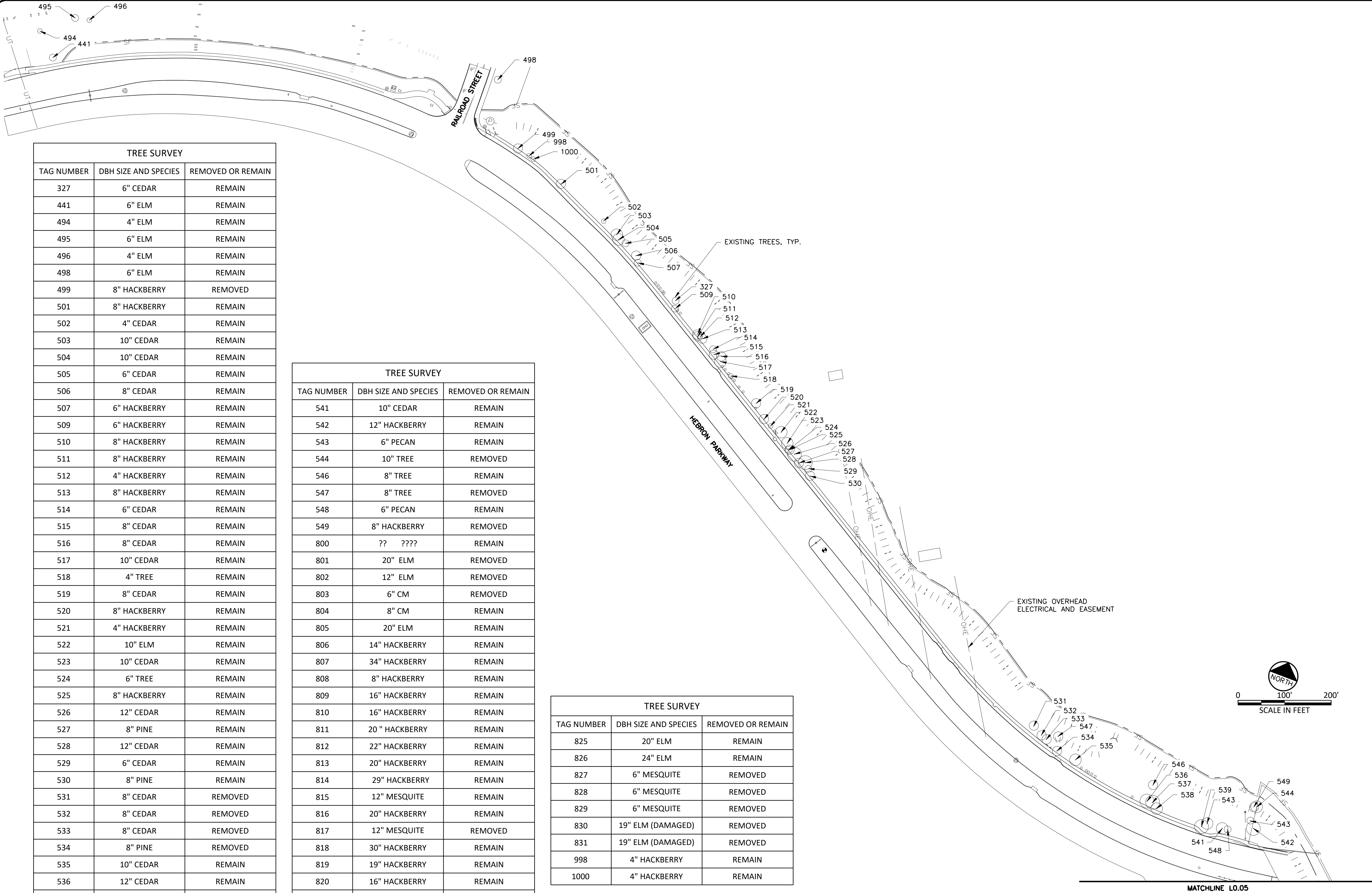
ACAD: Rel: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-TREE SURVEY.dwg
Last Saved: 3/5/2025 8:56 AM Saved By: 08457

TREE SURVEY		
TAG NUMBER	DBH SIZE AND SPECIES	REMOVED OR REMAIN
327	6" CEDAR	REMAIN
441	6" ELM	REMAIN
494	4" ELM	REMAIN
495	6" ELM	REMAIN
496	4" ELM	REMAIN
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
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		
TAG NUMBER	DBH SIZE AND SPECIES	REMOVED OR REMAIN
825	20" ELM	REMAIN
826	24" ELM	REMAIN
827	6" MESQUITE	REMOVED
828	6" MESQUITE	REMOVED
829	6" MESQUITE	REMOVED
830	19" ELM (DAMAGED)	REMOVED
831	19" ELM (DAMAGED)	REMOVED
998	4" HACKBERRY	REMAIN
1000	4" HACKBERRY	REMAIN

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



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

**FREES
NICHOLS**
2711 North Hagel Ave, Suite 3300
Dallas, Texas 75244
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE

EXISTING TREE SURVEY PLAN

NO.	ISSUE	BY	DATE	FOR JOB NO.	LEW23694	DATE	APR 2025	DESIGNED	MLM	DRAWN	YC	CHECKED	JHH	FILE NAME	L-PL-TREE SURVEY

VERIFY SCALE
Bar is one inch on original
drawing; if not one inch on
this sheet, adjust scale.

1

SHEET

L0.04

ISSUED FOR BID

SEQ.

8 OF 46

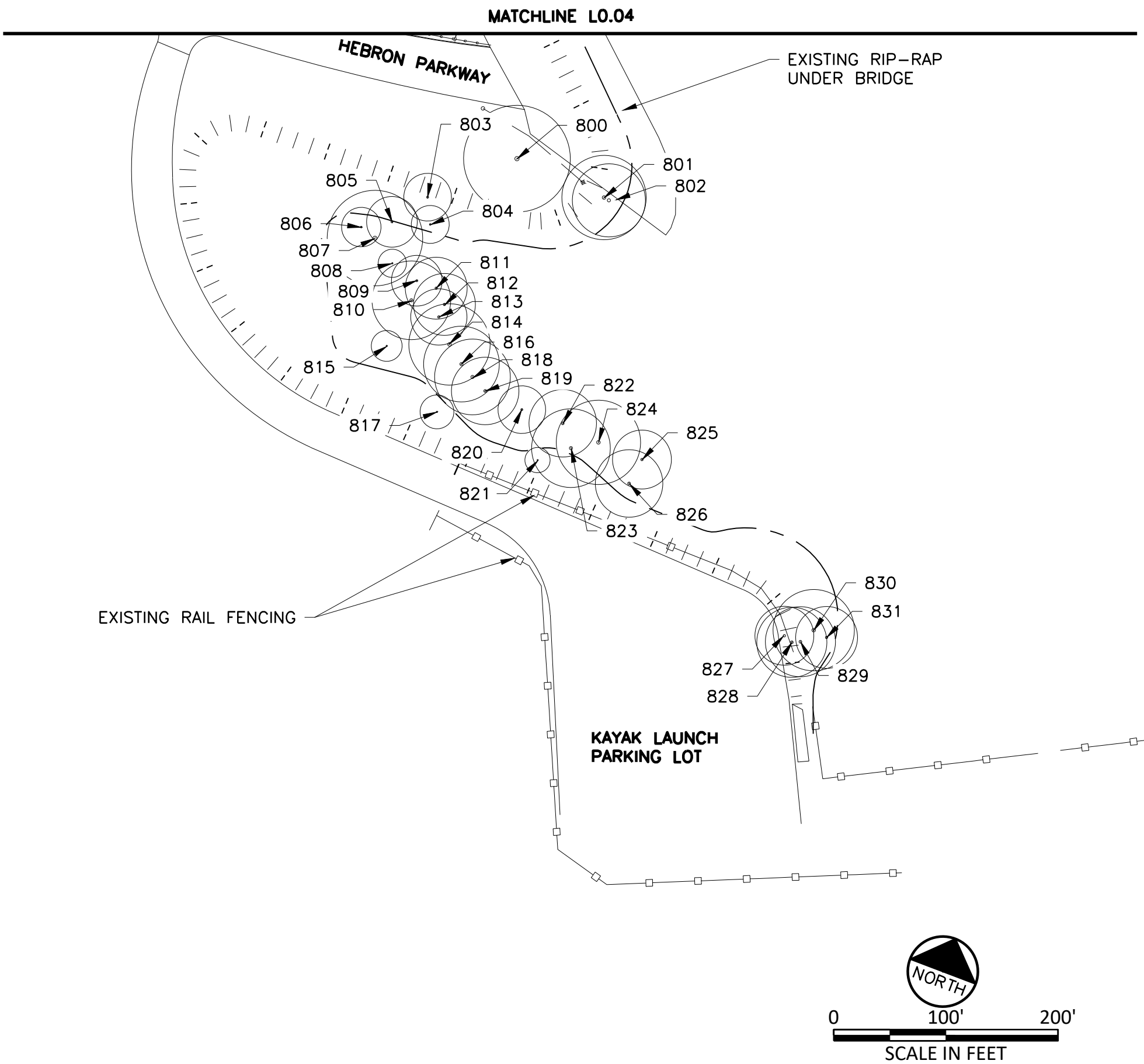
ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-TREE SURVEY - L0.05.dwg
Last Saved: 3/4/2025 4:24 PM Saved By: 08457

TREE SURVEY		
TAG NUMBER	DBH SIZE AND SPECIES	REMOVED OR REMAIN
327	6" CEDAR	REMAIN
441	6" ELM	REMAIN
494	4" ELM	REMAIN
495	6" ELM	REMAIN
496	4" ELM	REMAIN
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
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		
TAG NUMBER	DBH SIZE AND SPECIES	REMOVED OR REMAIN
825	20" ELM	REMAIN
826	24" ELM	REMAIN
827	6" MESQUITE	REMOVED
828	6" MESQUITE	REMOVED
829	6" MESQUITE	REMOVED
830	19" ELM (DAMAGED)	REMOVED
831	19" ELM (DAMAGED)	REMOVED
998	4" HACKBERRY	REMAIN
1000	4" HACKBERRY	REMAIN

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



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

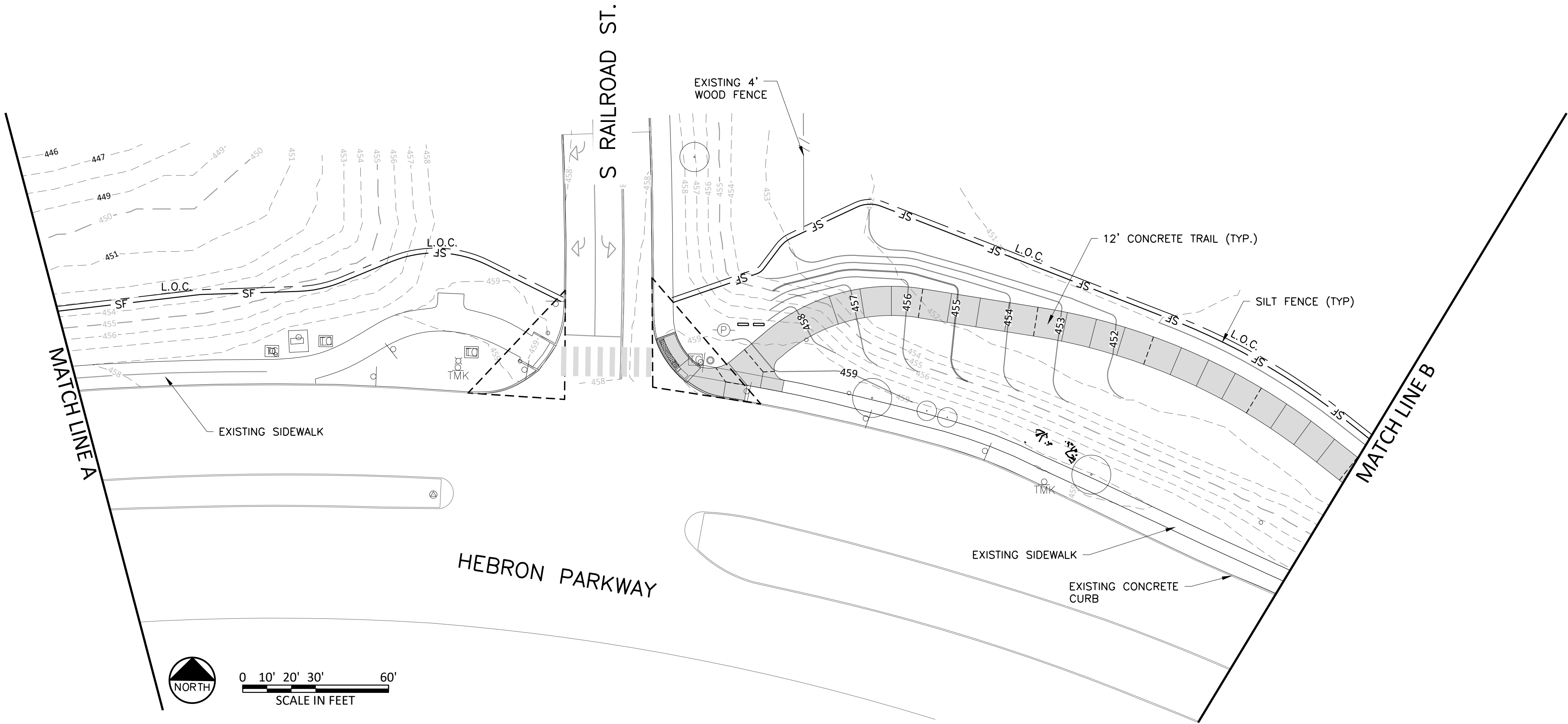
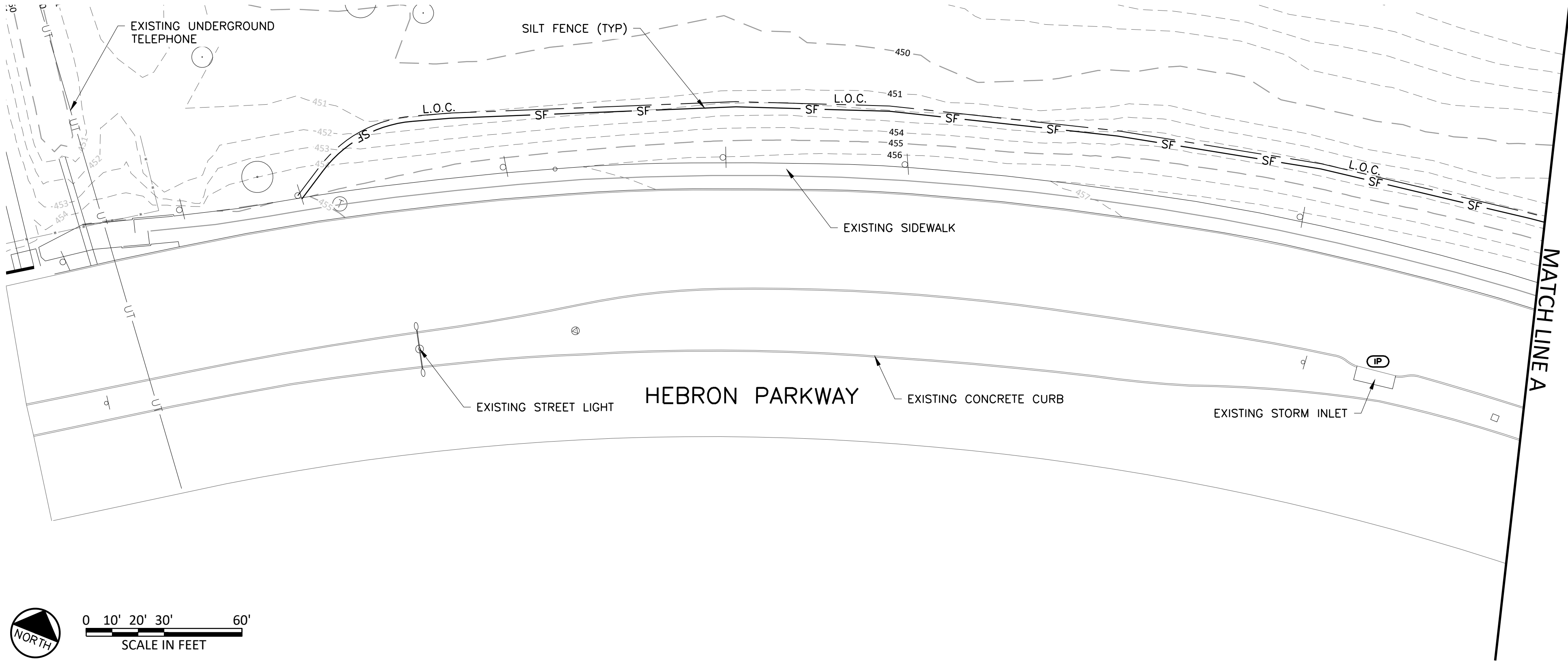


FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75218
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
EXISTING TREE SURVEY PLAN

NO.	ISSUE	BY	DATE	R&N JOB NO.	LEW23694	DATE	APR 2025	DESIGNED	MLM	DRAWN	JWST	CHECKED	JHH	FILE NAME	L-PL-TREE SURVEY - L0.05
VERIFY SCALE: Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.															
SHEET															
L0.05															
ISSUED FOR BID															
SEQ. 9 OF 46															

ACAD_Ret: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Erosion.dwg
Last Saved: 3/5/2025 7:18 PM Saved By: 08457



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. 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 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.

LEGEND:

- EXISTING EDGE OF PAVEMENT
- EXISTING TREES
- NEW EDGE OF PAVEMENT
- TRAIL CENTERLINE
- LIMITS OF CONSTRUCTION (L.O.C.)
- SF SILT FENCE
- PROPOSED TRAIL
- ROCK CHECK DAM
- ELEVATED WALKWAY
- INLET PROTECTION

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



FREES & NICHOLS
2711 North Hagel Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

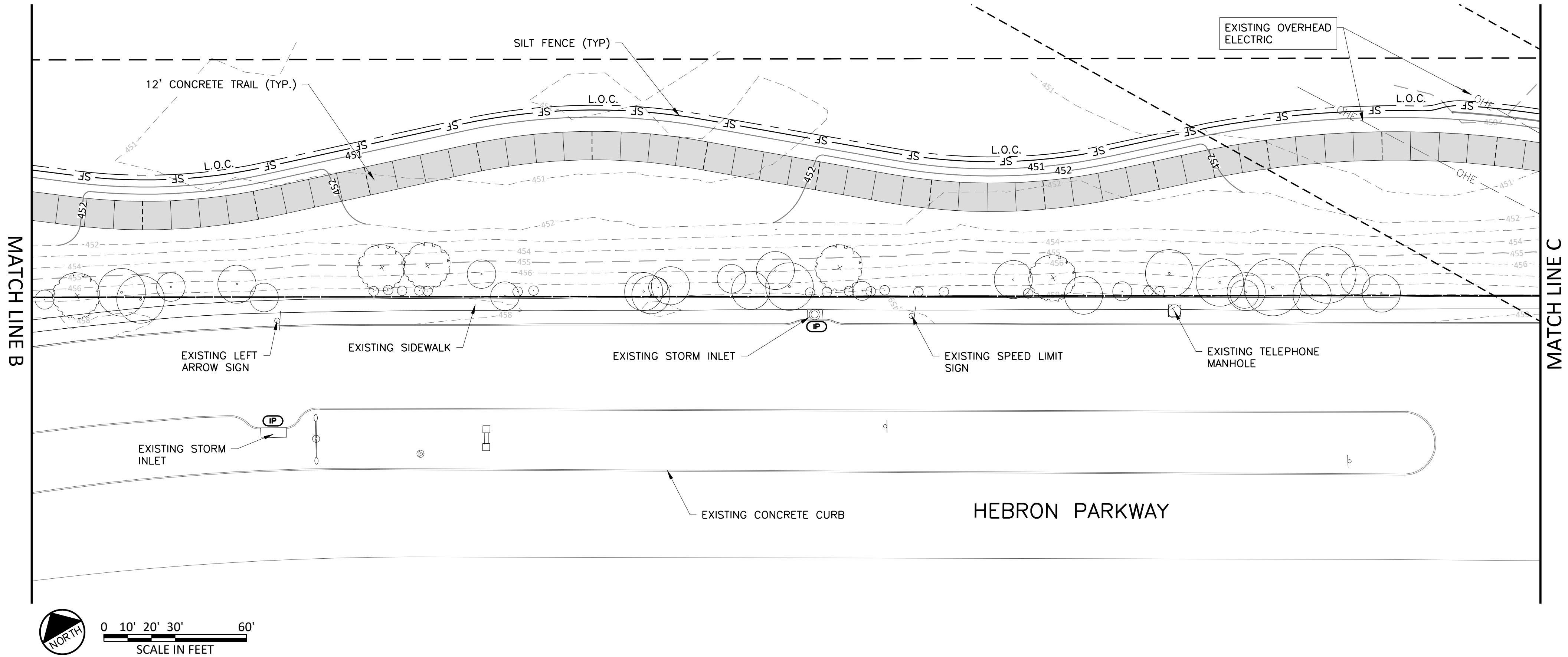
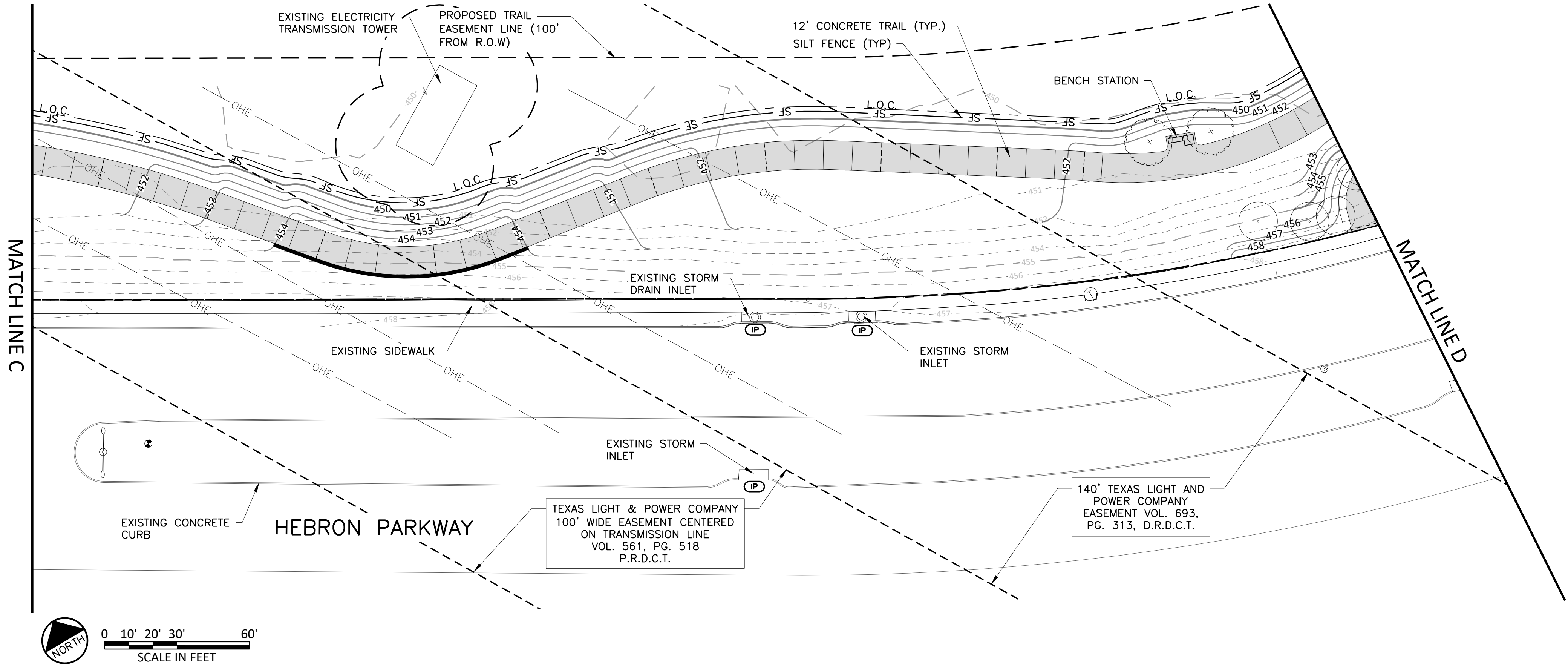
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
EROSION CONTROL PLAN -
AREA 1 & 2

NO.	ISSUE	BY	DATE	FILE NAME
1	ISSUE			L-PL-Erosion
2	ISSUE			
3	ISSUE			
4	ISSUE			
5	ISSUE			
6	ISSUE			
7	ISSUE			
8	ISSUE			
9	ISSUE			
10	ISSUE			

SHEET
EC1.01
SEQ.
10 OF 46

ISSUED FOR BID

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\LA-PL-Erosion.dwg
Last Saved: 3/5/2025 7:18 PM Saved By: 08457



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. 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 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.

LEGEND:

- EXISTING EDGE OF PAVEMENT
- EXISTING TREES
- NEW EDGE OF PAVEMENT
- TRAIL CENTERLINE
- LIMITS OF CONSTRUCTION (L.O.C.)
- SF SILT FENCE
- PROPOSED TRAIL
- ROCK CHECK DAM
- ELEVATED WALKWAY
- INLET PROTECTION

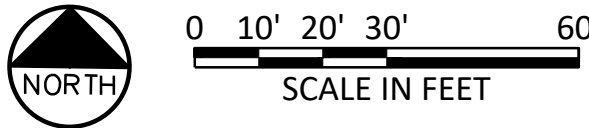
Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



FREESE & NICHOLS
2711 North Hagel Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
EROSION CONTROL PLAN
— AREA 3 & 4

NO.	ISSUE	BY	DATE	REV	DATE	DESIGNED	MLM	JWST	FILE NAME	1
									L-PL-Erosion	0
VERIFY SCALE: Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.										1
SHEET										EC1.02
ISSUED FOR BID										11 OF 46



LEGEND:

	EXISTING EDGE OF PAVEMENT
	EXISTING TREES
	NEW EDGE OF PAVEMENT
	TRAIL CENTERLINE
	LIMITS OF CONSTRUCTION (L.O.C.)
	SILT FENCE
	PROPOSED TRAIL
	ROCK CHECK DAM
	ELEVATED WALKWAY
	INLET PROTECTION

LANDSCAPE ARCHITECTURE
EROSION CONTROL PLAN
- AREA 5

NO.	ISSUE	BY	DATE	PLAN JOB NO.
				LEW23694
			DATE	APR 2025
			DESIGNED	MLM
			DRAWN	JMST
			REVISED	
VERIFY SCALE 0			FILE NAME	JHH
Bar is one inch on original drawing if not one inch on this sheet; adjust scale.			L-PL-Erosion	

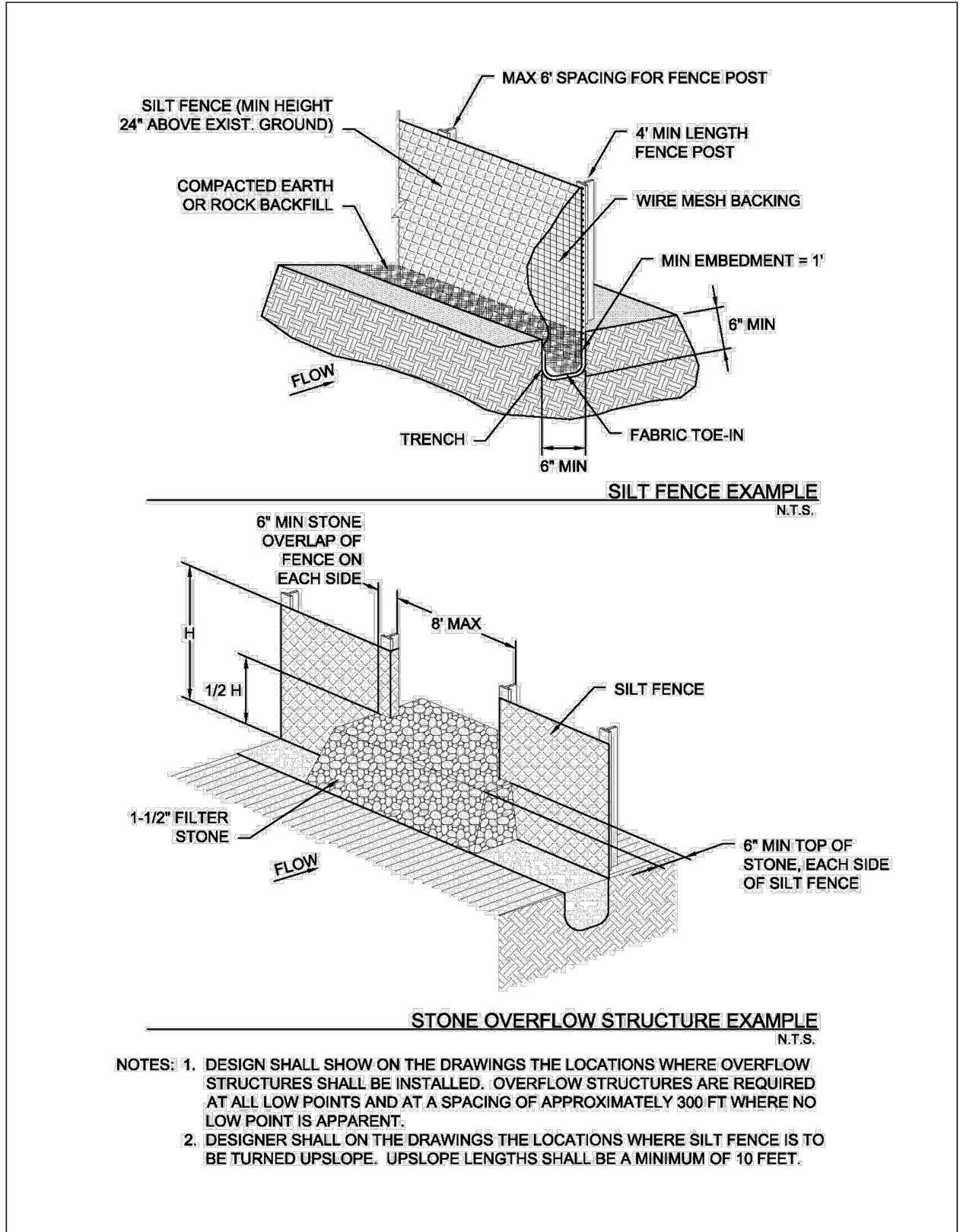


Figure 3.28 Schematics of Silt Fence

Silt Fence
April 2010, Revised 9/2014
CC-151

1
EC2.01
SILT FENCE
NOT TO SCALE

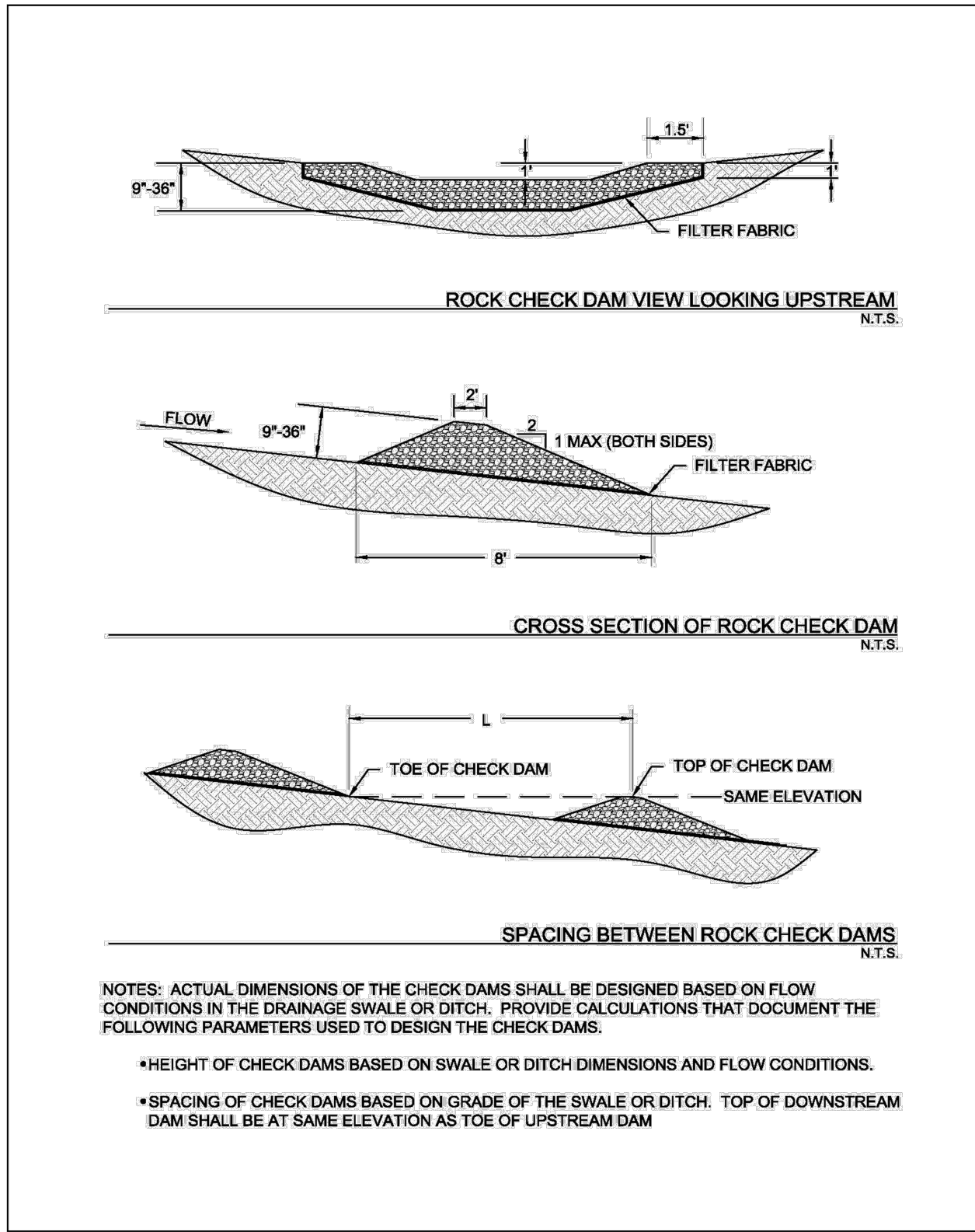


Figure 2.1 Schematics of Rock Check Dams
(Source: Modified from Stormwater Management Manual for Western Washington)

Check Dam
April 2010, Revised 9/2014
CC-16

2
EC2.01
ROCK CHECK DAM
NOT TO SCALE

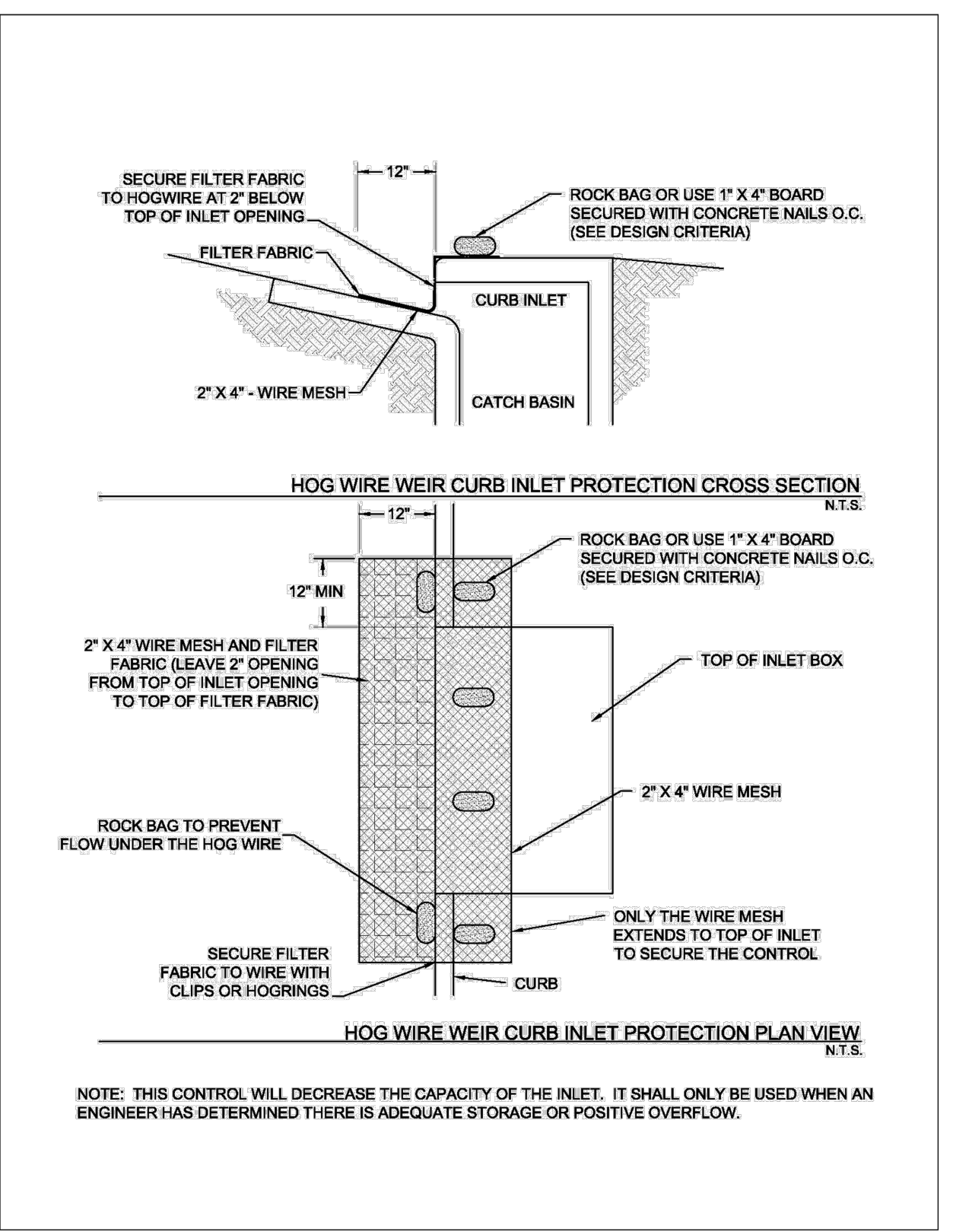


Figure 3.7 Schematics of Hog Wire Weir Curb Inlet Protection
(Source: Modified from City of Round Rock Detail E-03)

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

3
EC2.01
CURB INLET PROTECTION
CURB INLET PROTECTION

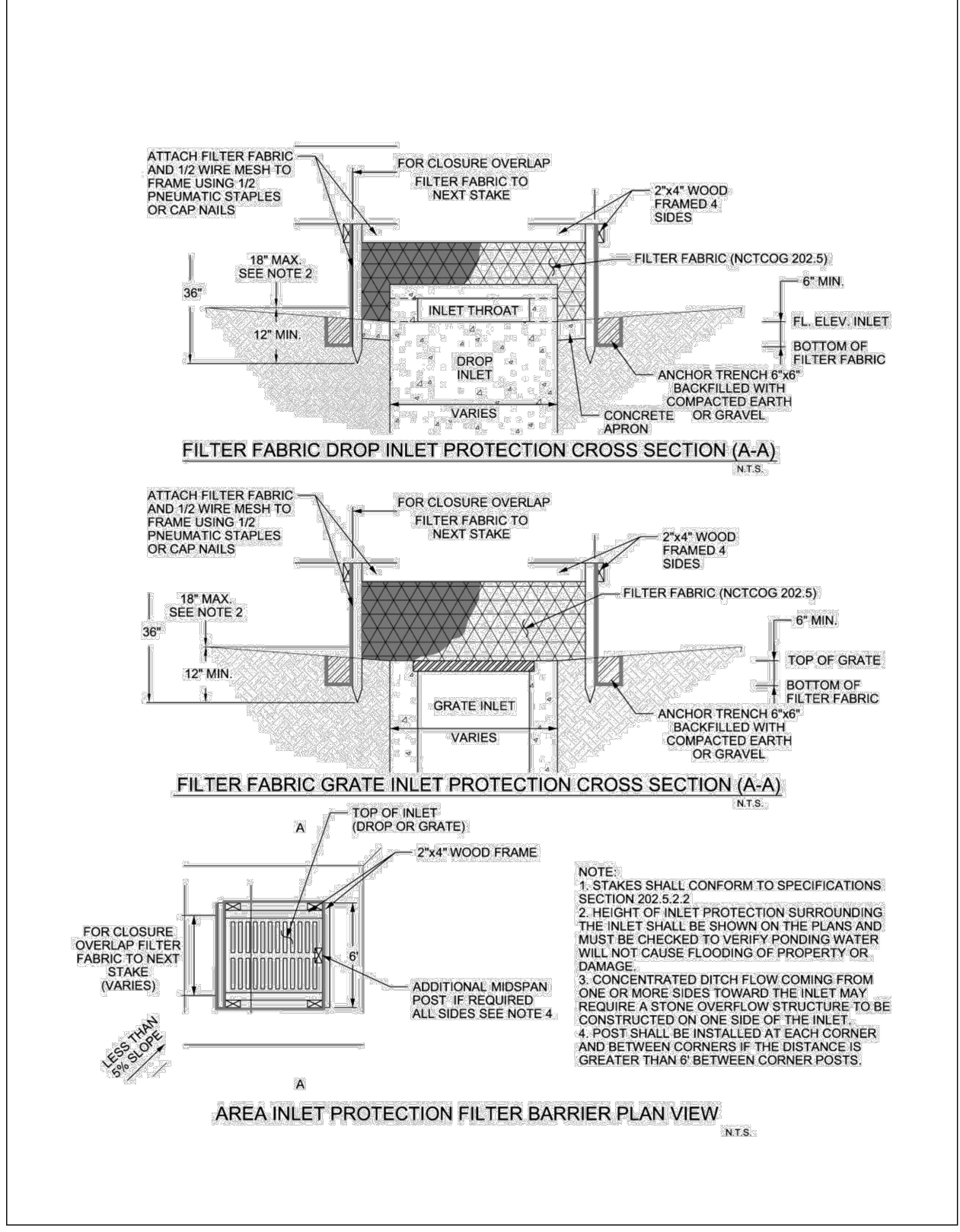


Figure 3.10 Schematics of Filter Fabric Area Inlet Protection
(Source: City of Plano BMP SP-4)

Inlet Protection
April 2010, Revised 9/2014, Updated 7/2019
CC-96

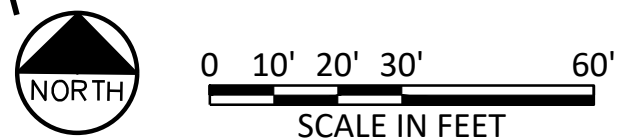
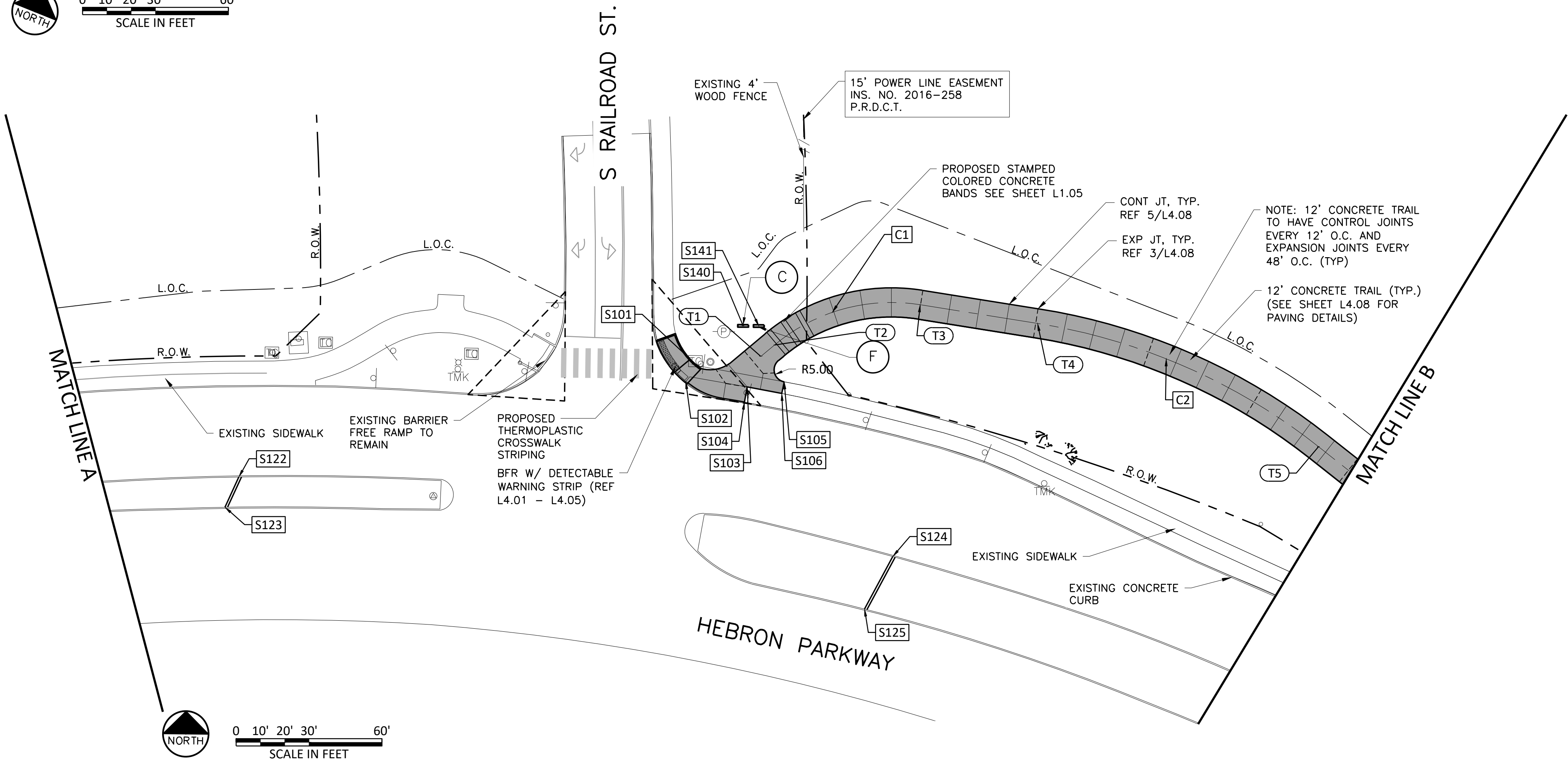
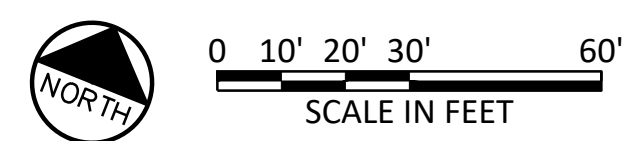
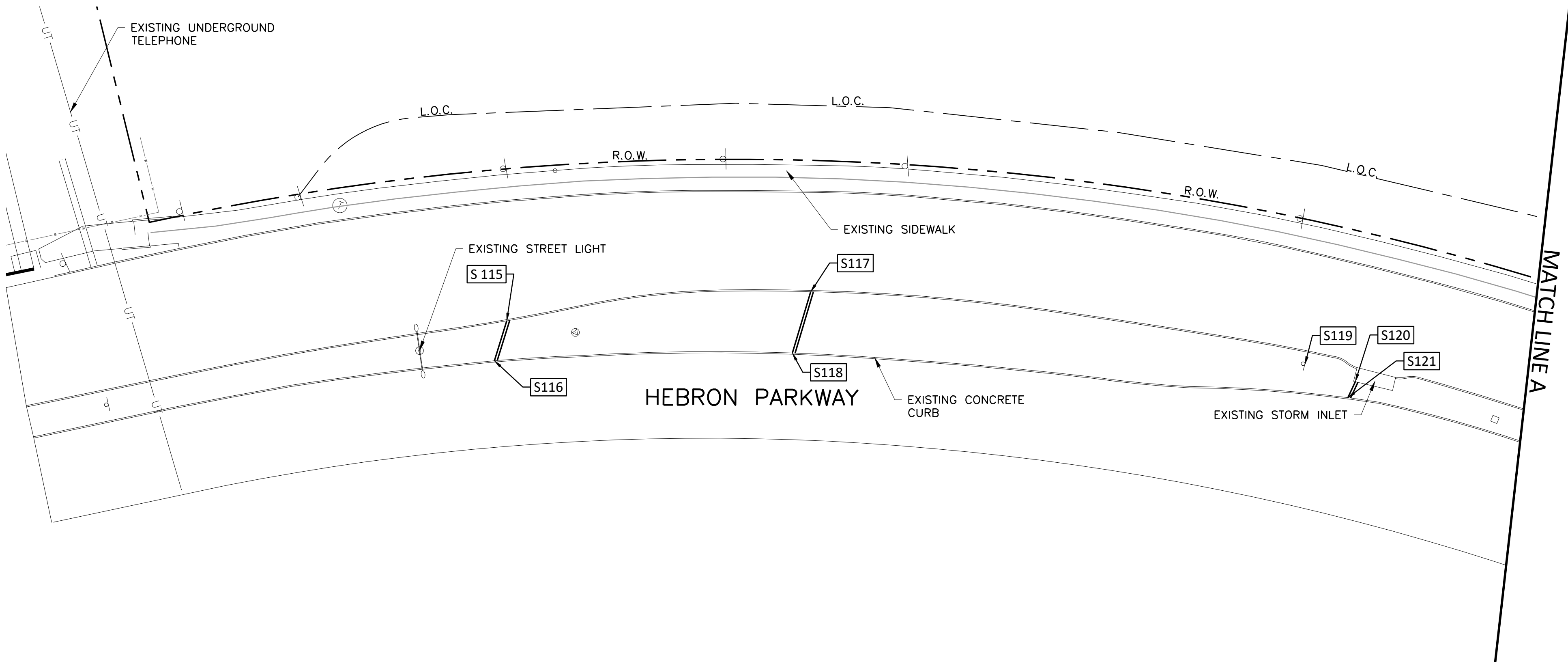
4
EC2.01
ALTERNATE CURB INLET PROTECTION
FOR INLET TOP REMOVAL
NOT TO SCALE

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. 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.
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 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.

DATE	BY	NO.	ISSUE	FILE NAME
LEW23694				L-PL-Erosion
APR 2025				
DESIGNED				
DRAWN				
REVISED				
CHECKED				
JHH				
VERIFY SCALE	Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.			

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Layout.dwg
Last Saved: 4/22/2025 10:56 AM Saved By: mfm



LEGEND:

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- TRAIL CENTERLINE
- S101 SITE COORDINATE
- T101 TRAIL COORDINATE
- C101 CURVE DATA
- L.O.C. LIMITS OF CONSTRUCTION
- EXPANSION JOINT
- CONTROL JOINT
- EXISTING TREES
- CONCRETE TRAIL PAVING W/ MEDIUM BROOM FINISH

NOTES:

- WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
- ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
- REFER TO SHEET L0.01 THRU L0.05 FOR BENCHMARKS AND DEMOLITION INFORMATION.
- ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE SPECIFIED.
- 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
- THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE.
- 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
- THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- ALL WATER METER, IRRIGATION CONTROL, MANHOLE ADJUSTMENTS, AND STORM DRAIN INLET REPLACEMENTS ARE TO BE DONE IN ACCORDANCE WITH THE CITY OF LEWISVILLE STANDARDS.
- 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:

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

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



FREESE & NICHOLS
2711 North Hagell Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL LAYOUT PLAN
- AREAS 1 & 2

NO.	ISSUE	BY	DATE	REV	DATE	DESIGNED	MLM	DRAWN	JWST	CHECKED	JHH	FILE NAME
1	ISSUE											L-PL-Layout
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												
61												
62												
63												
64												
65												
66												
67												
68												
69												
70												
71												
72												
73												
74												
75												
76												
77												
78												
79												
80												
81												
82												
83												
84												
85												
86												
87												
88												
89												
90												
91												
92												
93												
94												
95												
96												
97												
98												
99												
100												

SHEET
L1.01

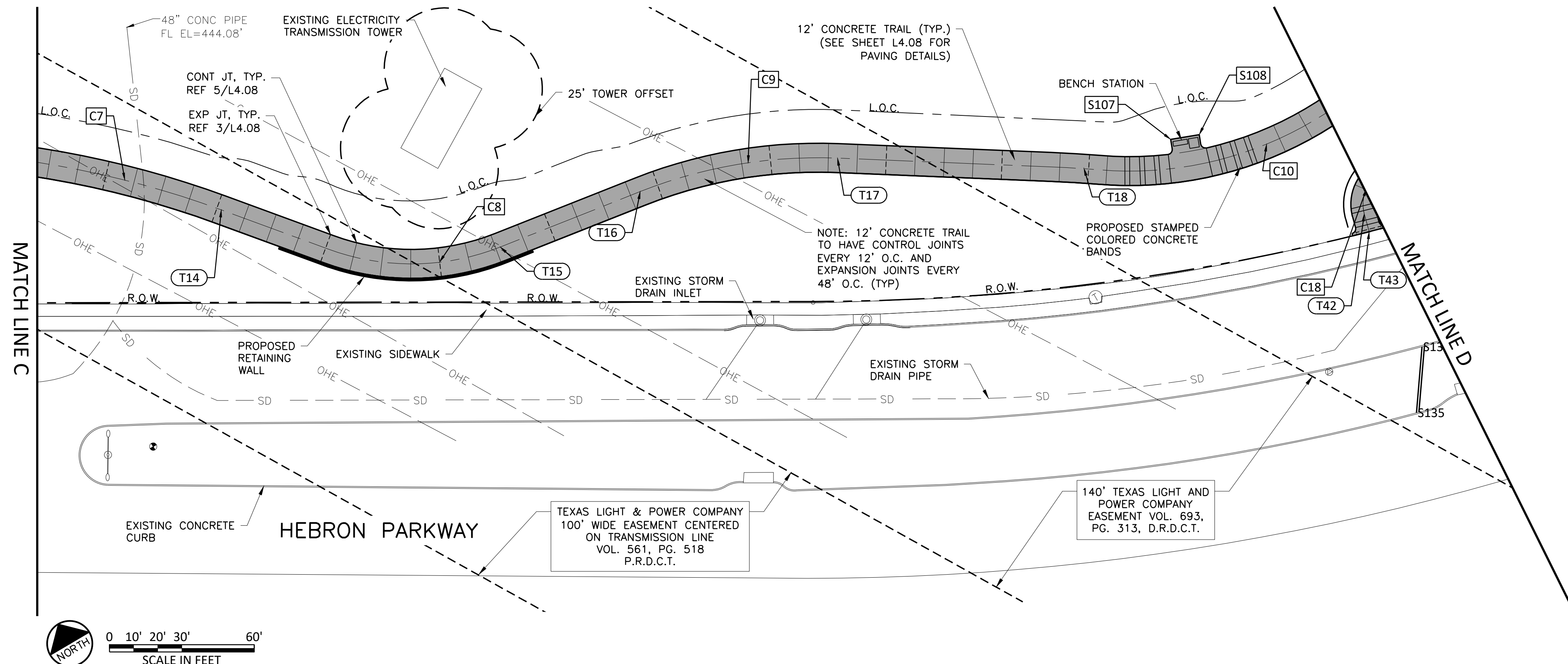
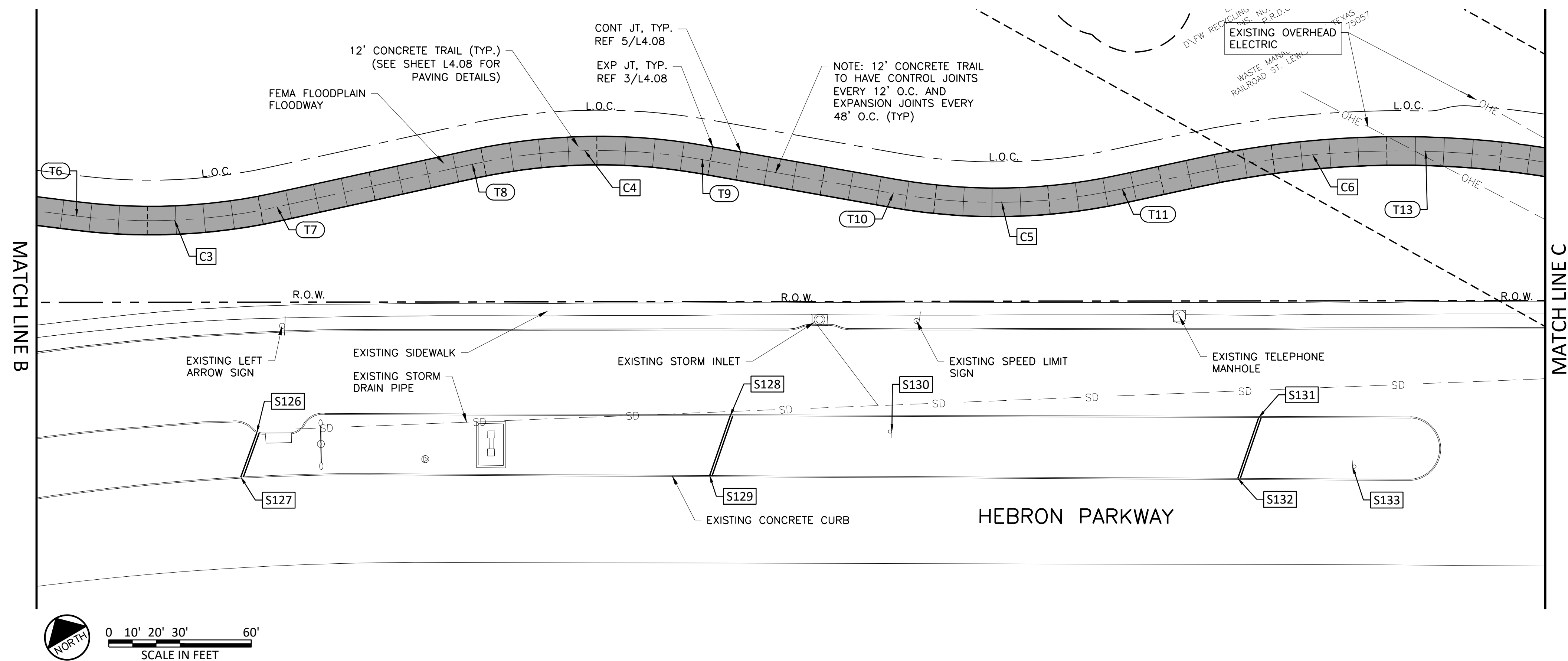
ISSUED FOR BID

SEQ.
14 OF 46

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL LAYOUT PLAN
- AREAS 3 & 4

NO.	ISSUE	BY	DATE	PLAN JOB NO.
				LEW23694
			DATE	APR 2025
			DESIGNED	MLM
			DRAWN	JMST
			REVISED	
VERIFY SCALE  Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.				CHECKED JMST

SHEET L1.02
SEQ. 15 OF 46

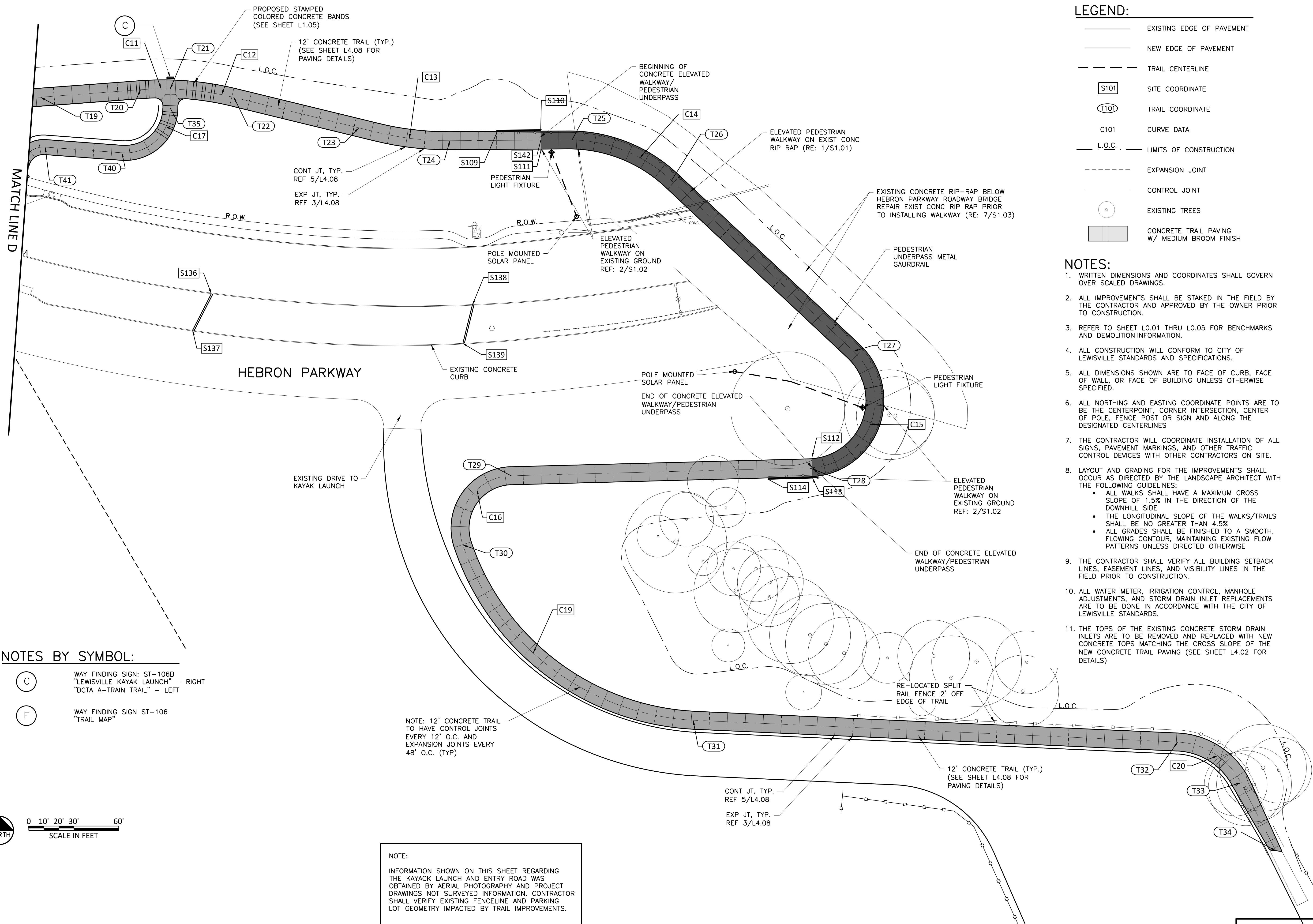


	EXISTING EDGE OF PAVEMENT
	NEW EDGE OF PAVEMENT
	TRAIL CENTERLINE
	SITE COORDINATE
	TRAIL COORDINATE
C101	CURVE DATA
	LIMITS OF CONSTRUCTION
	EXPANSION JOINT
	CONTROL JOINT
	EXISTING TREES
	CONCRETE TRAIL PAVING W/ MEDIUM BROOM FINISH

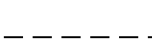
1. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
2. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
3. REFER TO SHEET L0.01 THRU L0.05 FOR BENCHMARKS AND DEMOLITION INFORMATION.
4. ALL CONSTRUCTION WILL CONFORM TO 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)

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

(F) WAY FINDING SIGN ST-106
"TRAIL MAP"



LEGEND:

- | | |
|---|---|
|  | EXISTING EDGE OF PAVEMENT |
|  | NEW EDGE OF PAVEMENT |
|  | TRAIL CENTERLINE |
|  | SITE COORDINATE |
|  | TRAIL COORDINATE |
| C101 | CURVE DATA |
|  | LIMITS OF CONSTRUCTION |
|  | EXPANSION JOINT |
|  | CONTROL JOINT |
|  | EXISTING TREES |
|  | CONCRETE TRAIL PAVING
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 L0.01 THRU L0.05 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:

- (C) WAY FINDING SIGN: ST-106B
"LEWISVILLE KAYAK LAUNCH" - RIGHT
"DCTA A-TRAIN TRAIL" - LEFT
- (F) WAY FINDING SIGN ST-106
"TRAIL MAP"



NOTE:

INFORMATION SHOWN ON THIS SHEET REGARDING THE KAYACK LAUNCH AND ENTRY ROAD WAS OBTAINED BY AERIAL PHOTOGRAPHY AND PROJECT DRAWINGS NOT SURVEYED INFORMATION. CONTRACTOR SHALL VERIFY EXISTING FENCELINE AND PARKING LOT GEOMETRY IMPACTED BY TRAIL IMPROVEMENTS.



2711 North Haskell Ave., Suite 3300
Dallas, Texas 75204
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS

HEBRON PARKWAY

LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL LAYOUT PLAN
- AREA 5

[illegible]

L1.03

SEQ.

16 OF 46

ISSUED FOR BID

TRAIL CENTERLINE COORDINATE POINT		
POINT	NORTHING	EASTING
T1	7056539.53	2441255.82
T2	7056544.29	2441261.36
T3	7056561.57	2441321.11
T4	7056554.45	2441369.51
T5	7056505.14	2441485.72
T6	7056484.49	2441512.52
T7	7056444.98	2441587.17
T8	7056418.72	2441667.22
T9	7056371.30	2441751.62
T10	7056318.32	2441813.66
T11	7056271.05	2441897.63
T13	7056219.87	2442015.81
T14	7056134.64	2442112.65
T15	7056062.69	2442204.48
T16	7056053.02	2442266.14
T17	7056023.45	2442343.65
T18	7055967.98	2442429.54
T19	7055937.07	2442532.52
T20	7055942.08	2442599.29
T21	7055942.59	2442619.03
T22	7055936.97	2442661.54
T23	7055916.68	2442744.99
T24	7055908.10	2442805.68
T25	7055908.65	2442887.20
T26	7055881.64	2442953.60
T27	7055767.74	2443075.17
T28	7055689.92	2443045.62
T29	7055684.56	2442846.65
T30	7055638.35	2442814.44
T31	7055521.47	2442968.19
T32	7055507.04	2443291.51
T33	7055479.87	2443333.79
T34	7055434.54	2443356.99
T35	7055929.87	2442619.04
T40	7055899.95	2442586.81
T41	7055903.76	2442535.65
T42	7055892.73	2442520.06
T43	7055885.35	2442518.06

SITE COORDINATE POINT		
PNT	NORTHING	EASTING
101	7056535.37	2441229.71
102	7056528.85	2441225.06
103	7056526.92	2441250.32
104	7056520.69	2441249.28
105	7056529.21	2441265.55
106	7056524.43	2441264.64
107	7055960.06	2442466.55
108	7055955.73	2442477.74
109	7055913.33	2442836.91
110	7055915.53	2442866.33
111	7055901.54	2442866.43
112	7055696.97	2443047.42
113	7055682.97	2443047.80
114	7055682.17	2443018.36
115	7056370.01	2440609.22
116	7056354.02	2440610.55
117	7056424.21	2440713.62
118	7056399.67	2440715.89
119	7056469.46	2440900.68
120	7056470.41	2440921.18
121	7056463.67	2440920.82
122	7056487.39	2441041.65
123	7056474.91	2441036.08
124	7056457.89	2441311.06
125	7056436.18	2441299.71
126	7056367.46	2441531.64
127	7056354.82	2441516.38
128	7056272.46	2441706.98
129	7056255.23	2441686.80
130	7056232.29	2441762.30
131	7056159.00	2441898.38
132	7056141.39	2441877.83
133	7056121.04	2441921.95
134	7055833.15	2442512.72
135	7055810.71	2442496.84
136	7055805.97	2442646.53
137	7055781.51	2442634.06
138	7055798.29	2442820.67
139	7055772.89	2442814.41
140	7056552.02	2441248.38
141	7056552.02	2441254.82
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

ISSUED FOR BID

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

Matthew L. Nichols
04/29/2025

2711 North Haskell Ave., Suite 3300
Dallas, Texas 75218
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY

LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL
CURVE DATA AND COORDINATES

F&N JOB NO.
LEW23694

DATE
APR 2025

DESIGNED
MLM

DRAWN
JWST

REVIEWED
JHH

BY

DATE

NO.

ISSUE

FILE NAME
L-PL-Layout

Bar is one inch on original
drawing; if not one inch on
this sheet, adjust scale.

0 1

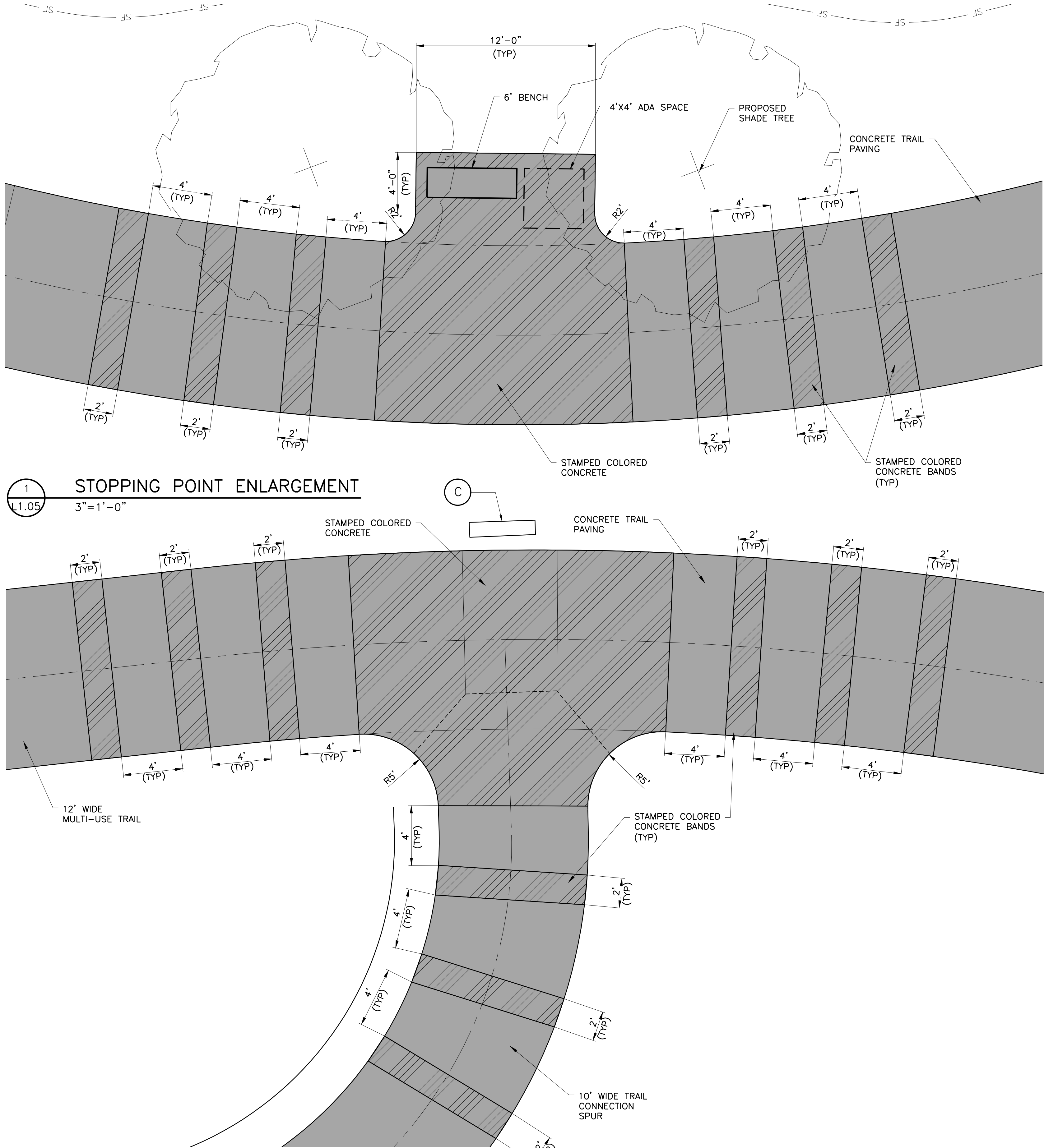
SHEET

L1.04

SEQ.

17 OF 46

ACAD: Rel: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Tri Enlg.dwg
Last Saved: 3/5/2025 7:40 PM Saved By: 08457



LEGEND:

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- TRAIL CENTERLINE
- S101 SITE COORDINATE
- T101 TRAIL COORDINATE
- C101 CURVE DATA
- L.O.C. LIMITS OF CONSTRUCTION
- EXPANSION JOINT
- CONTROL JOINT
- EXISTING TREES
- CONCRETE TRAIL PAVING
W/ MEDIUM BROOM FINISH
- STAMPED/COLORED CONCRETE
(ALL INSTANCES)

NOTES:

- WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
- ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
- REFER TO SHEET L0.01 THRU L0.03 FOR BENCHMARKS AND DEMOLITION INFORMATION.
- ALL CONSTRUCTION WILL CONFORM TO CITY OF LEWISVILLE STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE SPECIFIED.
- 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
- THE CONTRACTOR WILL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE.
- 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
- THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- REFER TO SHEETS L4.06 AND L4.08 FOR DETAILS RELATED TO SITE FURNISHINGS, AND TRAILHEAD COMPONENTS.
- 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.
- CONTRACTOR SHALL BUILD A 2'X12' MOCKUP OF THE STAMPED COLORED CONCRETE INSTALLATION ON SITE FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTES BY SYMBOL:

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

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



FREES & NICHOLS
2711 North Haskell Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL
ENLARGEMENT PLANS

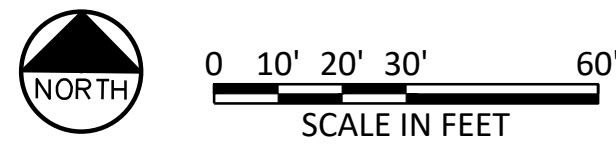
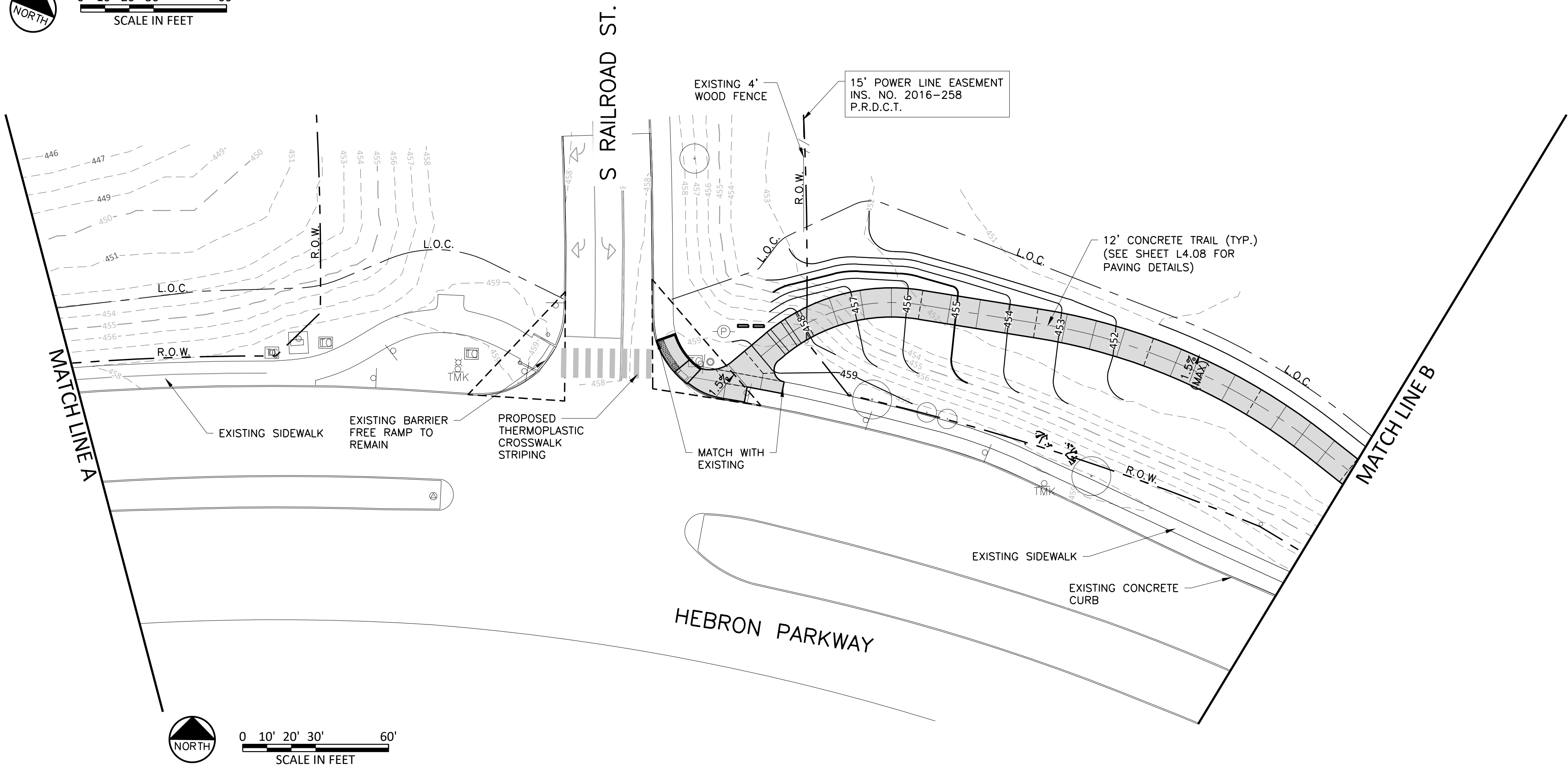
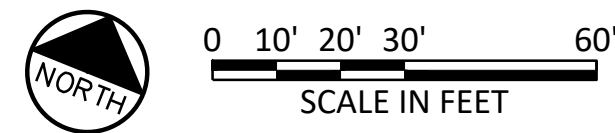
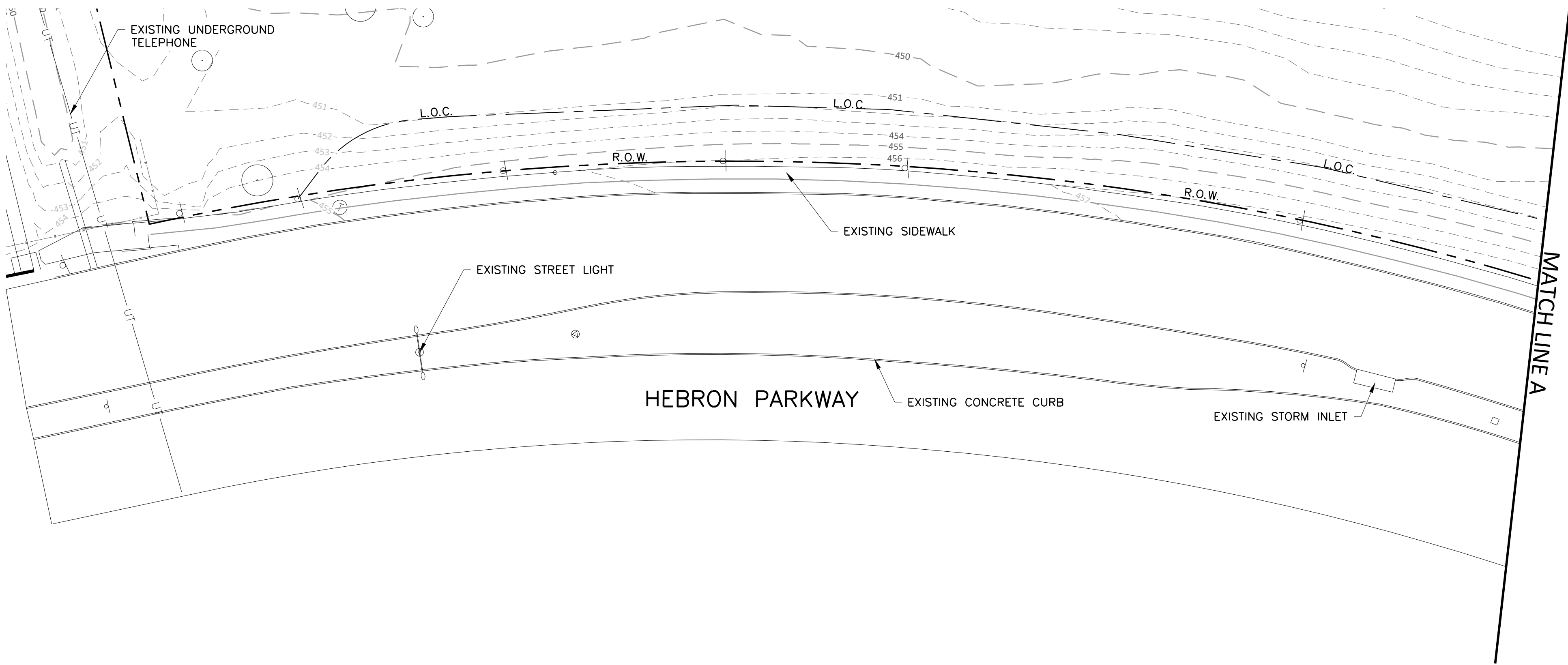
FILE NO.	DATE	BY	NO.	ISSUE	FILE NAME
LEW23694	APR 2025				L-PL-Tri Enlg
DESIGNED	MLM				
DRAWN	JWST				
REVISED					
CHECKED					
JHH					
Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.					
VERIFY SCALE					
1					
0					

SHEET
L1.05

ISSUED FOR BID

SEQ.
18 OF 46

ACAD_Ret: 25.0s (LMS_Tech)
Filename: N:\LA\Drawings\L-PL-Grading.dwg
Last Saved: 4/22/2025 10:56 AM Saved By: mfm



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 L0.01 THRU L0.05 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:

- 60.3 --- EXISTING GRADE CONTOUR
- 599 --- FINISH GRADE CONTOUR
- 602.80 FINISH SPOT GRADE
- ⊗ EXISTING SEWER MANHOLE
- LIMITS OF CONSTRUCTION (L.O.C.)

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



FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75218
Phone - (214) 217-2200
Fax - (214) 217-2201

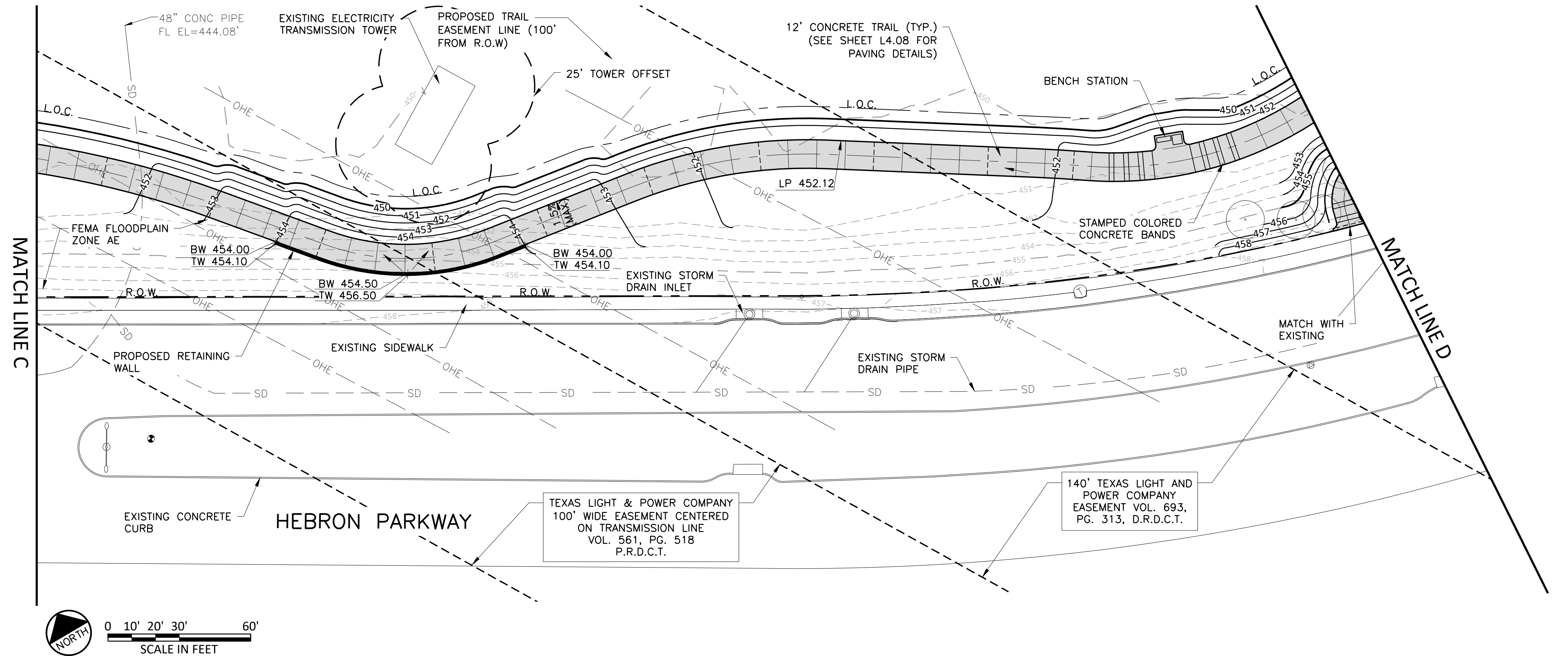
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL GRADING PLAN -
AREA 1 & 2

NO.	ISSUE	BY	DATE	R&W JOB NO.	DATE	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME
				LEW23694	APR 2025	MLM	JMST			L-PL-Grading
VERIFY SCALE: Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.										
SHEET										

L2.01

ISSUED FOR BID

SEQ. 19 OF 46



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

	EXISTING GRADE CONTOUR
	FINISH GRADE CONTOUR
	FINISH SPOT GRADE
	EXISTING SEWER MANHOLE
	LIMITS OF CONSTRUCTION (L.O.C.)

**FREESE
& NICHOLS**
2711 North Hoskell Ave., Suite 3300
Odollos, Texas 75204
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL GRADING PLAN –
AREA 3 & 4

NO.	ISSUE	BY	DATE	F&N JOB NO.
				LEW23694
			DATE	APR 2025
			DESIGNED	MLM
			DRAWN	JMST
			REVISED	
VERIFY SCALE ☐ Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			FILE NAME	JHH
0	1		L-PL-Grading	

SHEET L2.02

ISSUED FOR BID

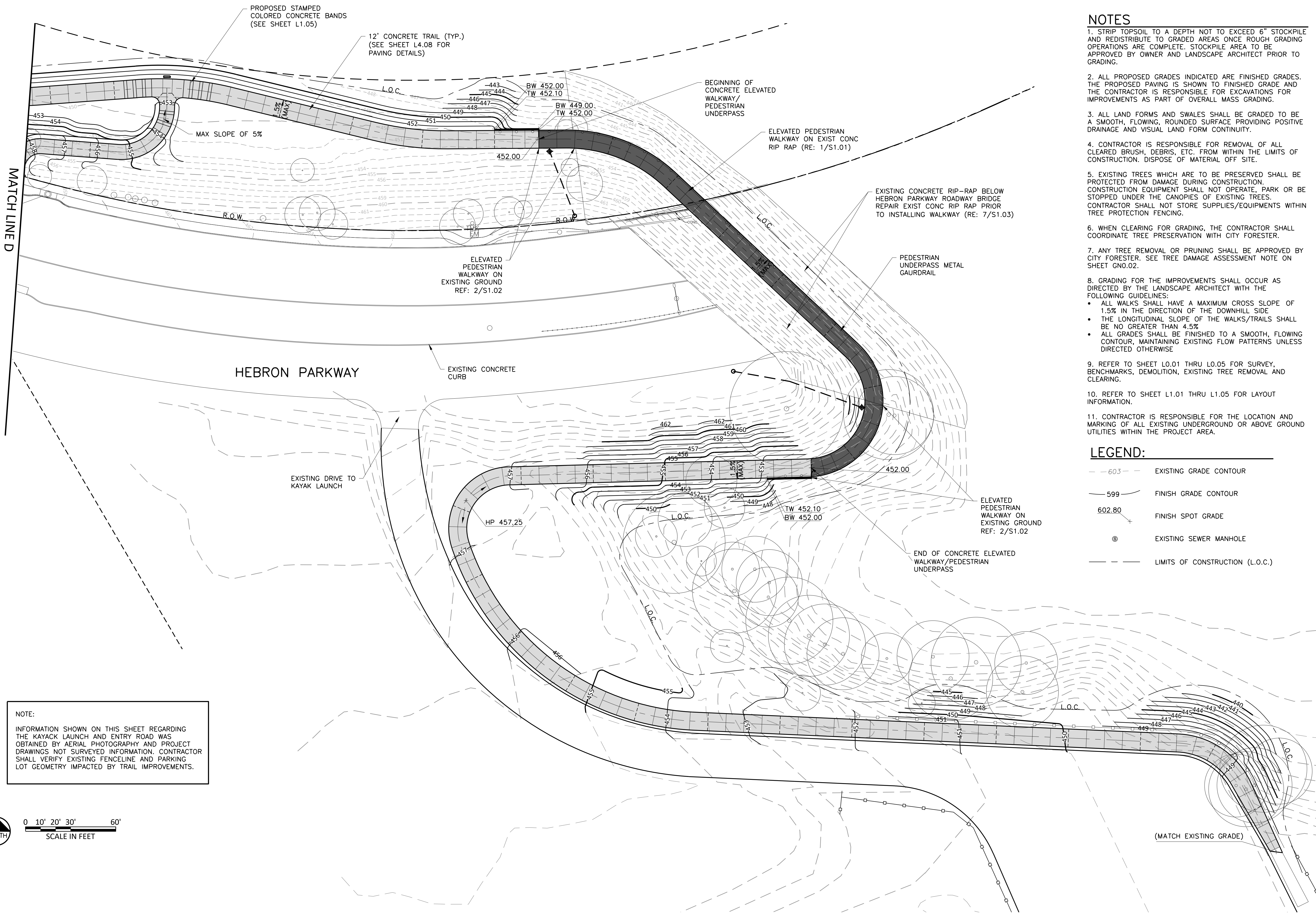
20 OF 46

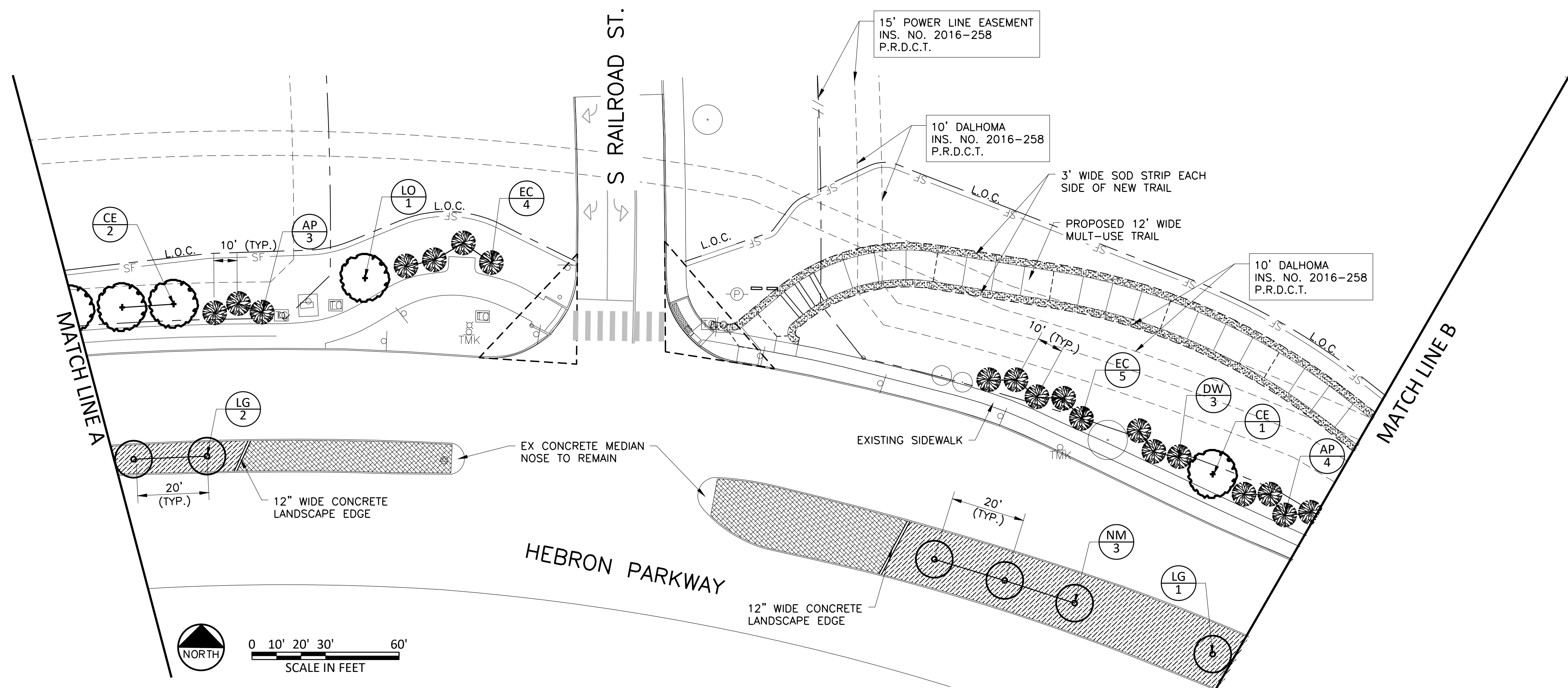
ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Grading.dwg
Last Saved: 4/22/2025 10:56 AM Saved By: mfm



0 10' 20' 30' 60'
SCALE IN FEET

NOTE:
INFORMATION SHOWN ON THIS SHEET REGARDING THE KAYACK LAUNCH AND ENTRY ROAD WAS OBTAINED BY AERIAL PHOTOGRAPHY AND PROJECT DRAWINGS NOT SURVEYED INFORMATION. CONTRACTOR SHALL VERIFY EXISTING FENCELINE AND PARKING LOT GEOMETRY IMPACTED BY TRAIL IMPROVEMENTS.





EXISTING TREE \ SHRUB TO REMAIN

PROPOSED SHADE TREE (3" CAL.)

PROPOSED SMALL ORNAMENTAL TREE (2" CAL.)

EVERGREEN SCREENING TREE (2" CAL.)

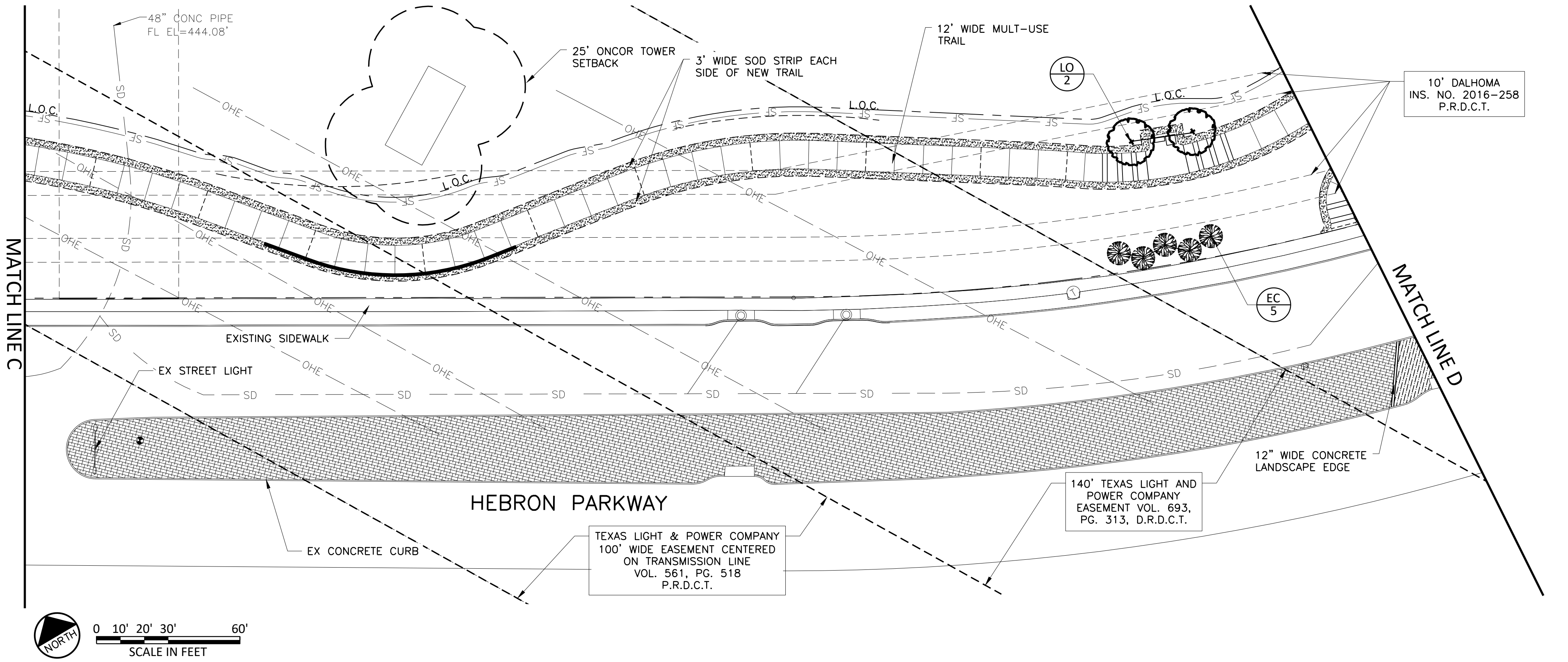
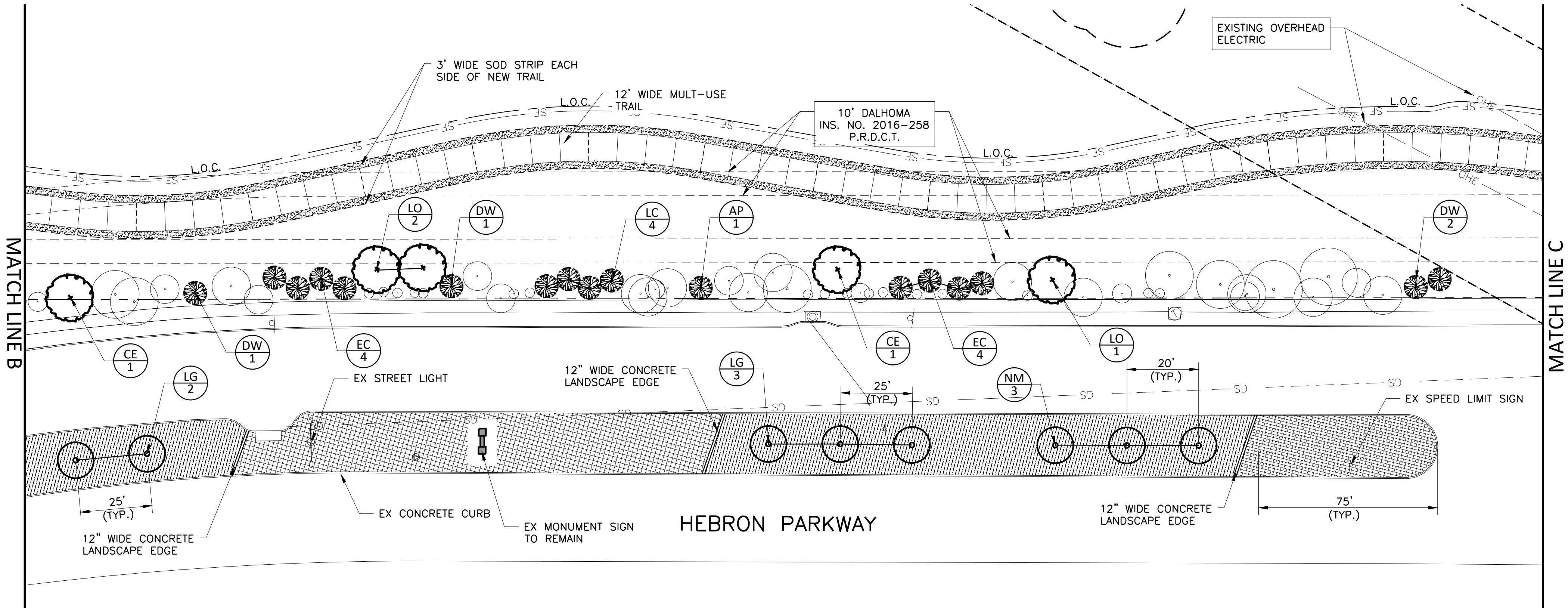
HYDROMULCH – "NATIVE TRAIL MIX" BY NATIVE AMERICAN SEED

HYDROMULCH – "THUNDER TURF" BY NATIVE AMERICAN SEED

HYDROMULCH – "POLLINATOR ESSENTIAL MIX" BY NATIVE AMERICAN SEED

SOLID SOD – BUFFALO GRASS (FOR EROSION CONTROL)

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-PL-Pint.dwg
Last Saved: 3/5/2025 8:03 PM Saved By: 08457



SYMBOL:

- XX X TREE SPECIES ABBREVIATION (SEE PLANT LIST FOR TREE DESCRIPTIONS)
- QUANTITY

NOTES:

- ALL PLANT MATERIAL LOCATIONS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO INSTALLATION.
- 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.
- THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF AND PROTECT ALL UTILITIES IN THE FIELD PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SITE FEATURES.
- GRASSING QUANTITIES ARE APPROXIMATE AND CONTRACTOR IS RESPONSIBLE FOR ALL AREAS DESIGNATED ON PLANS, INCLUDING ALL DISTURBED AREAS DUE TO CONSTRUCTION.
- 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.
- SEE SHEET L5.03 FOR PLANT LIST.
- 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" CAL.)
- HYDROMULCH - "NATIVE TRAIL MIX" BY NATIVE AMERICAN SEED
- HYDROMULCH - "THUNDER TURF" BY NATIVE AMERICAN SEED
- HYDROMULCH - "POLLINATOR ESSENTIAL MIX" BY NATIVE AMERICAN SEED
- SOLID SOD - BUFFALO GRASS (FOR EROSION CONTROL)

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

Matthew L. Nichols
04/29/2025

FREEZE
& NICHOLS

2711 North Hagell Ave, Suite 3300
Lewisville, Texas 76044
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL LANDSCAPE
PLANTING PLAN - AREAS 3 & 4

REV	JOB NO.	DATE	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME
	LEW23694	APR 2025	MLM	JWST			L-PL-Pint

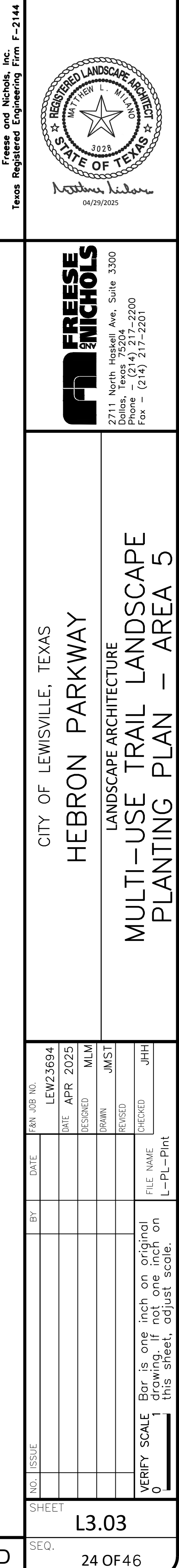
Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

VERIFY SCALE
0 1

ISSUED FOR BID

SHEET
L3.02

SEQ.
23 OF 46



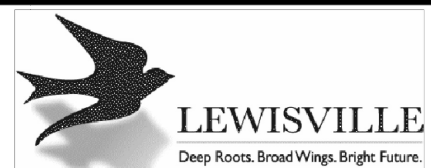
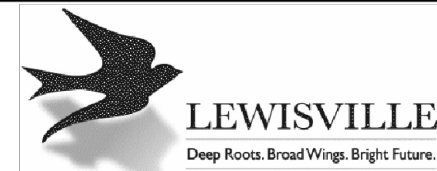
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
CITY OF LEWISVILLE
STANDARD PAVING DETAILS-2

NO.	ISSUE	BY	DATE	F&N JOB NO.
				LEW23694
			DATE	APR 2025
			DESIGNED	MLM
			DRAWN	
			JMST	
			REVISED	
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			FILE NAME	JHH
0	1		L-DT-COL Dtl 02	

SHEET
L4.02

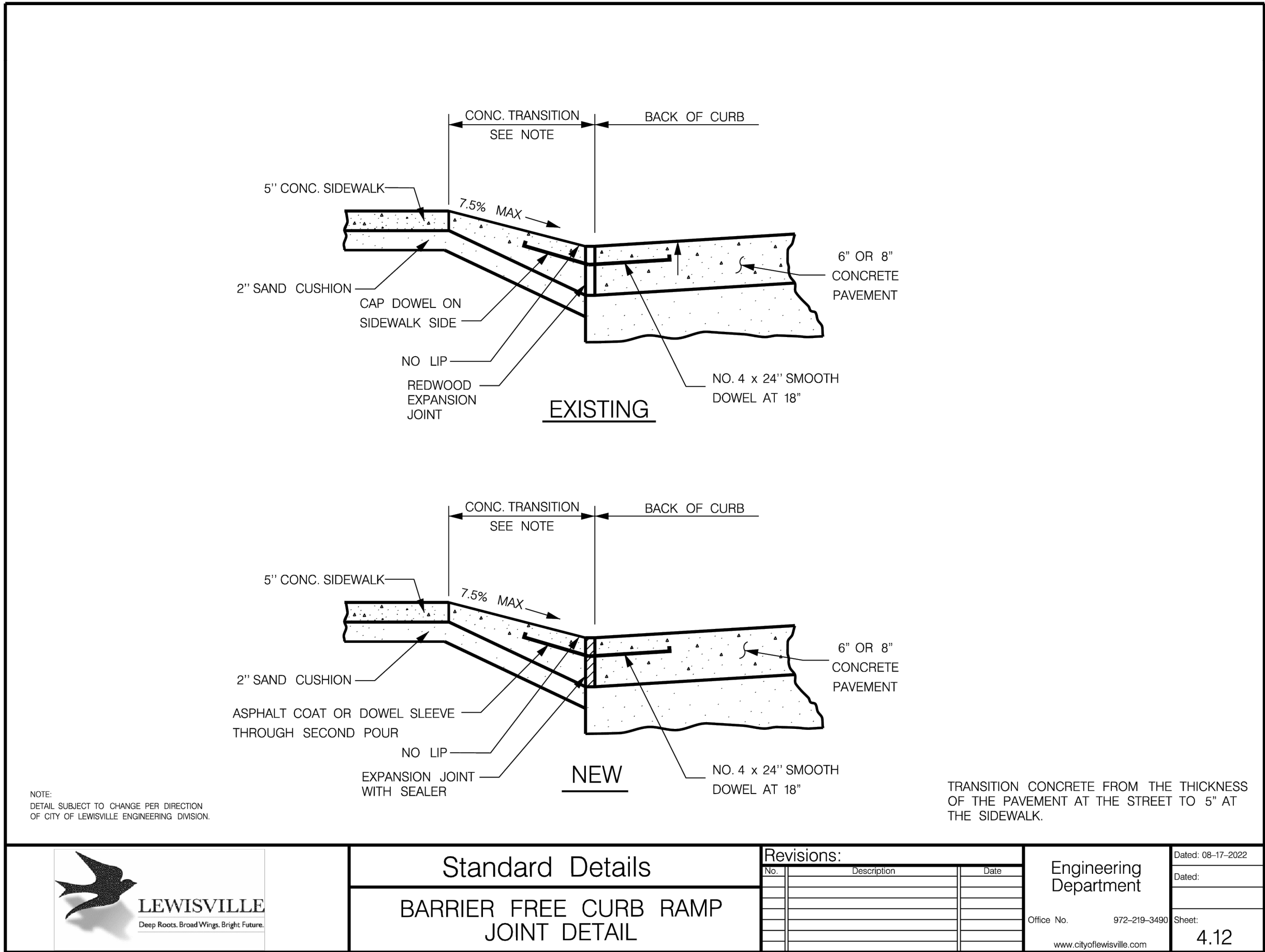
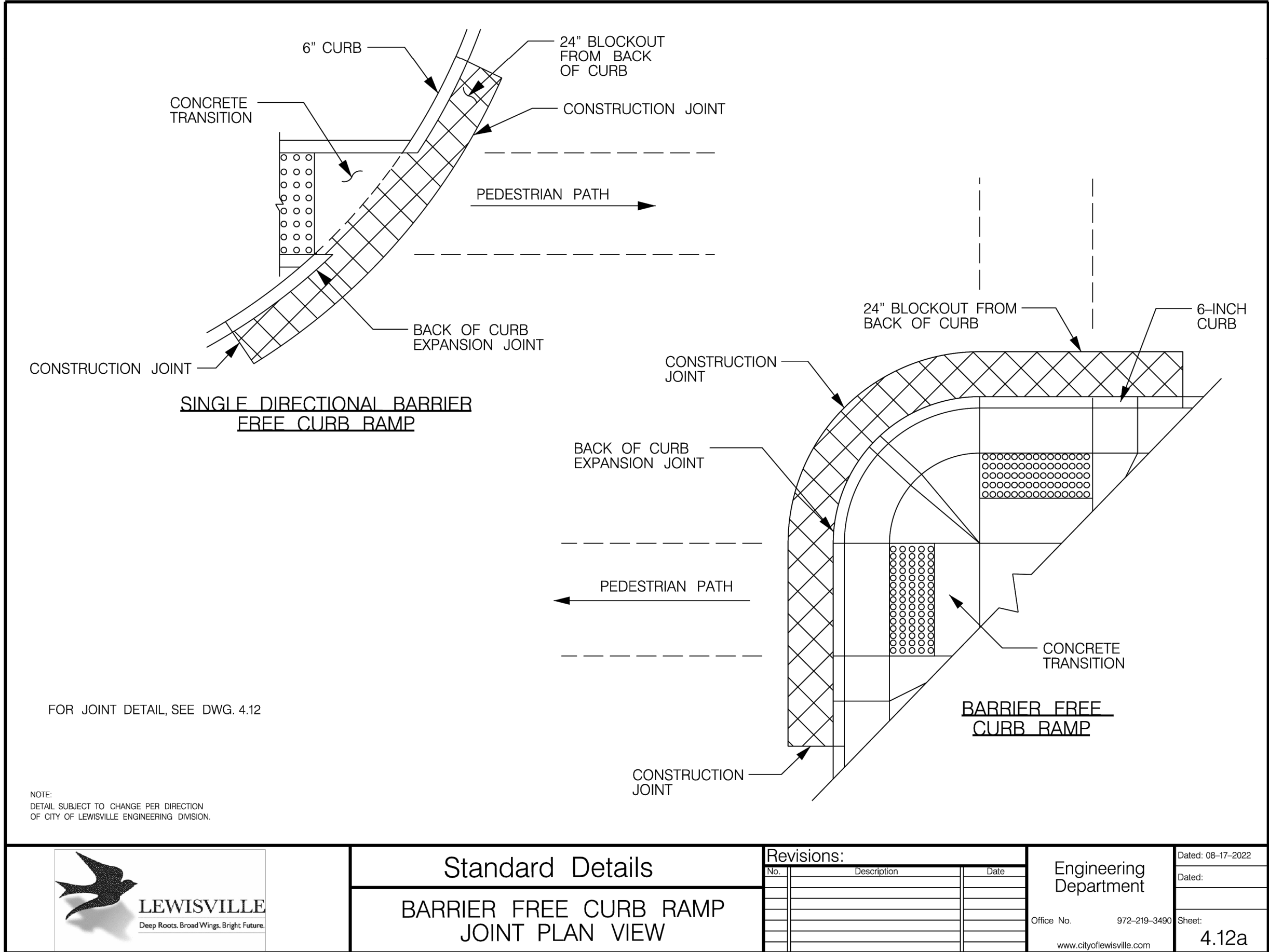
SEQ. 26 OF 46

ISSUED FOR BID





ACAD_Ret: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-DT-COL Dtl 04.dwg
Last Saved: 4/22/2025 5:09 PM Saved By: mm



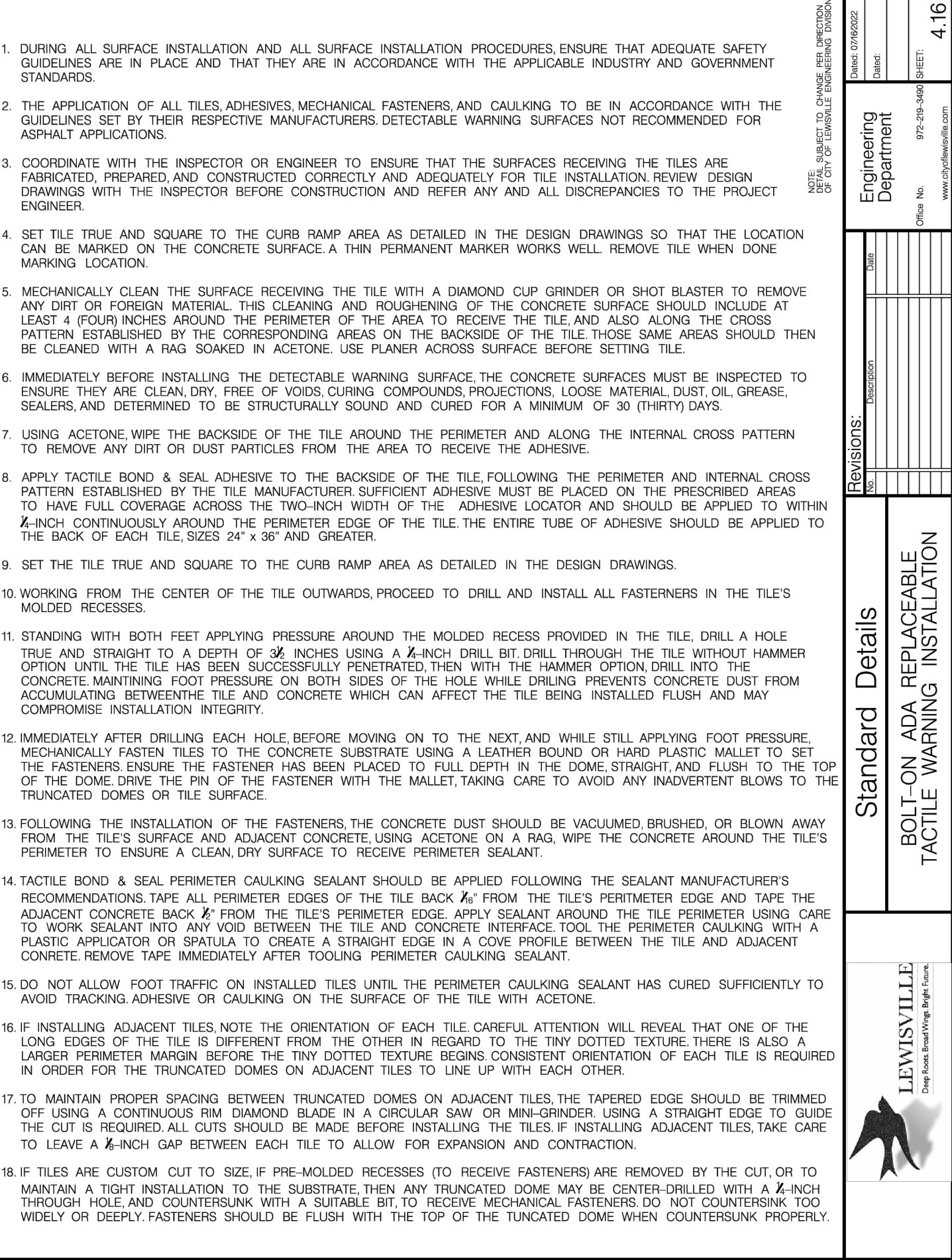
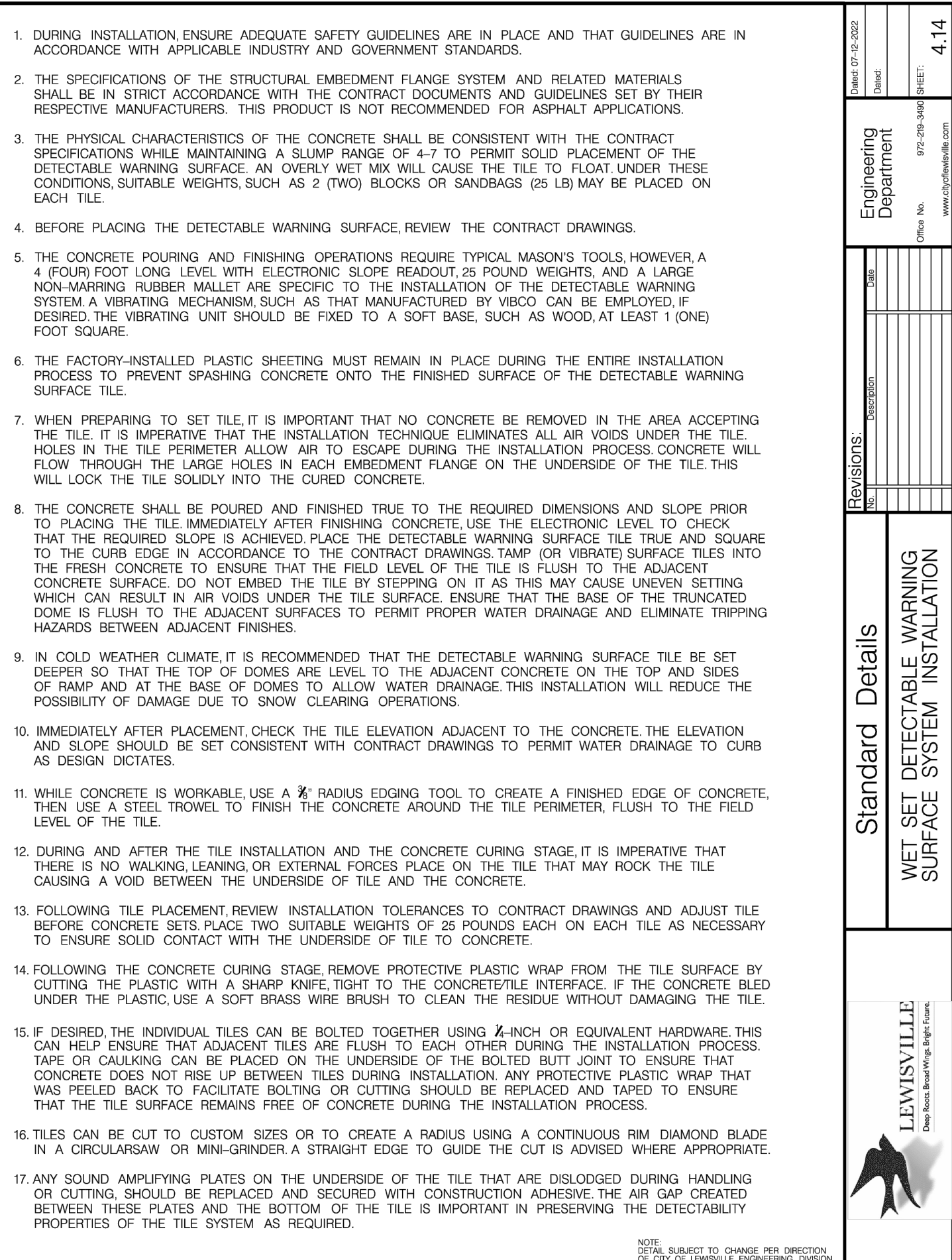
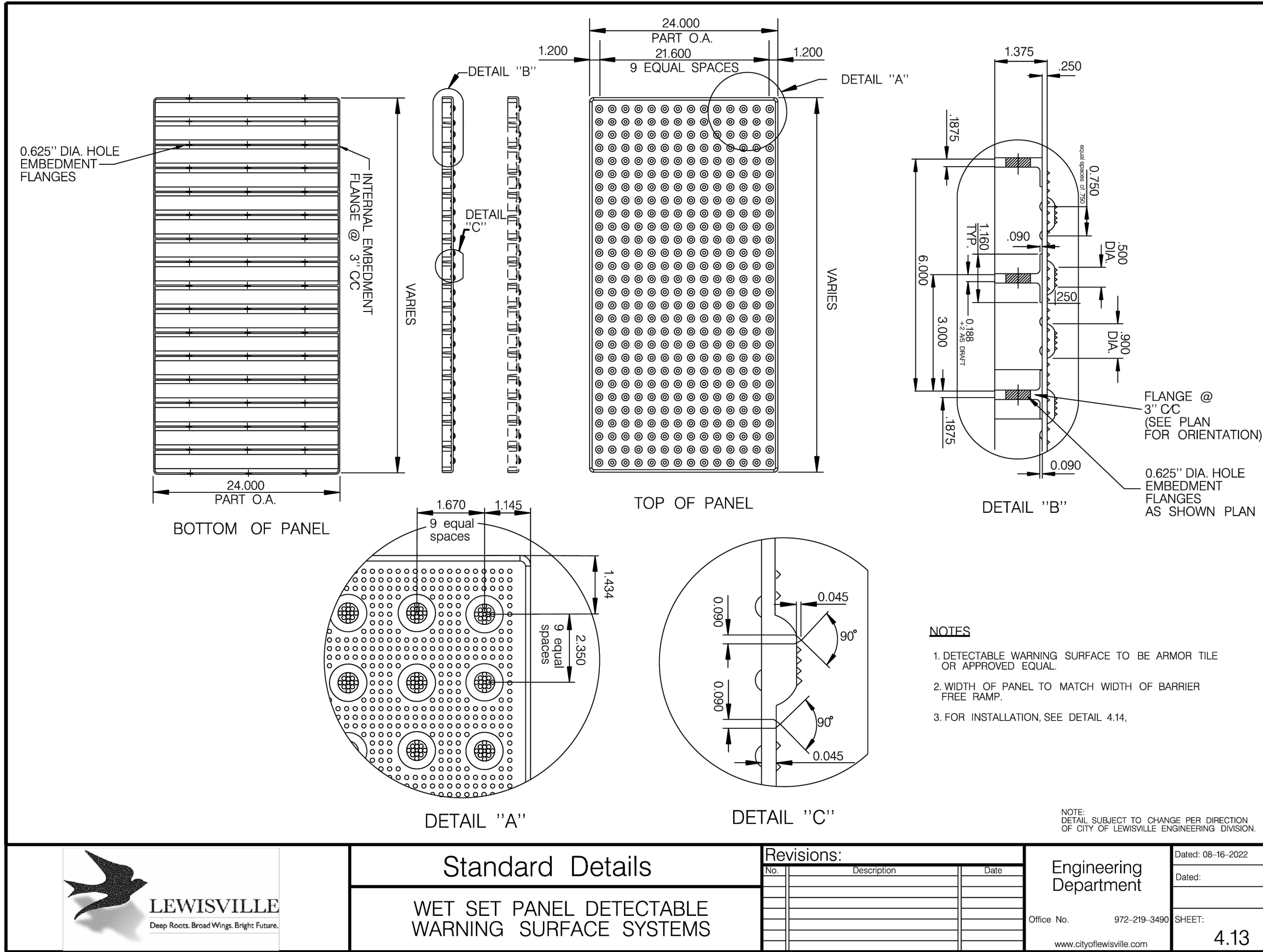
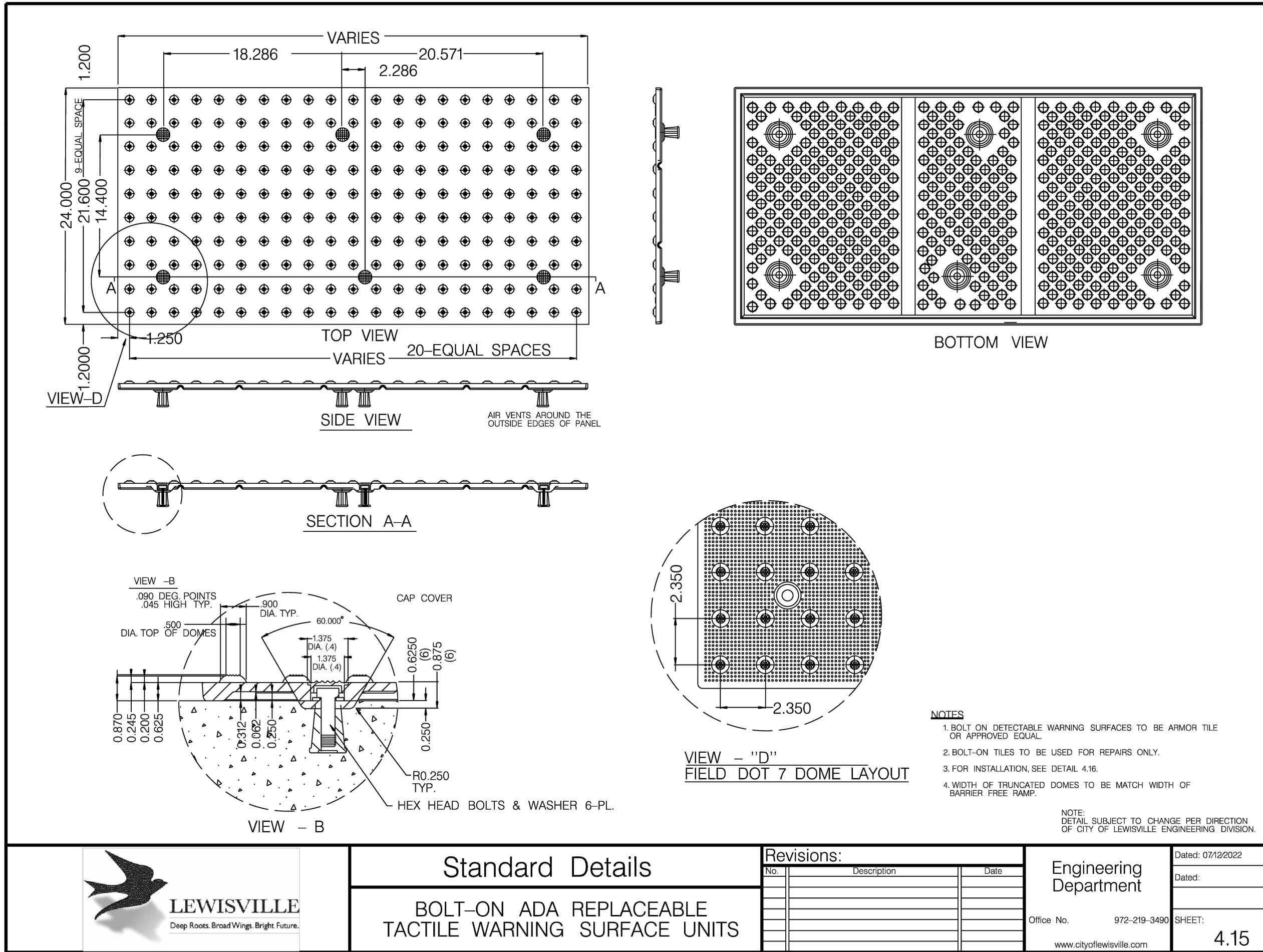
Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



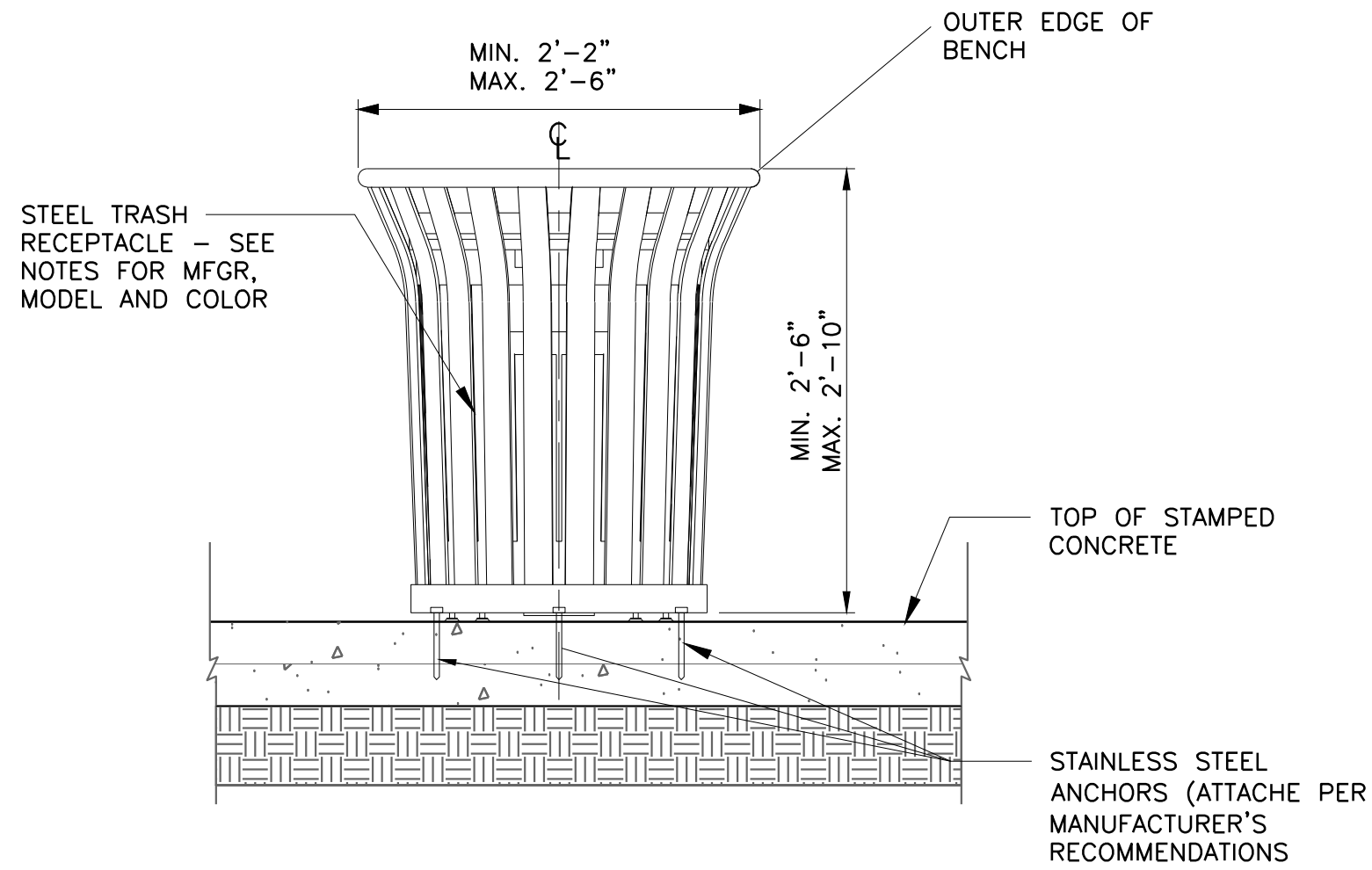
**FREES
NICHOLS**
2711 North Haskell Ave, Suite 3300
Frisco, Texas 75034
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
CITY OF LEWISVILLE
STANDARD PAVING DETAILS-4

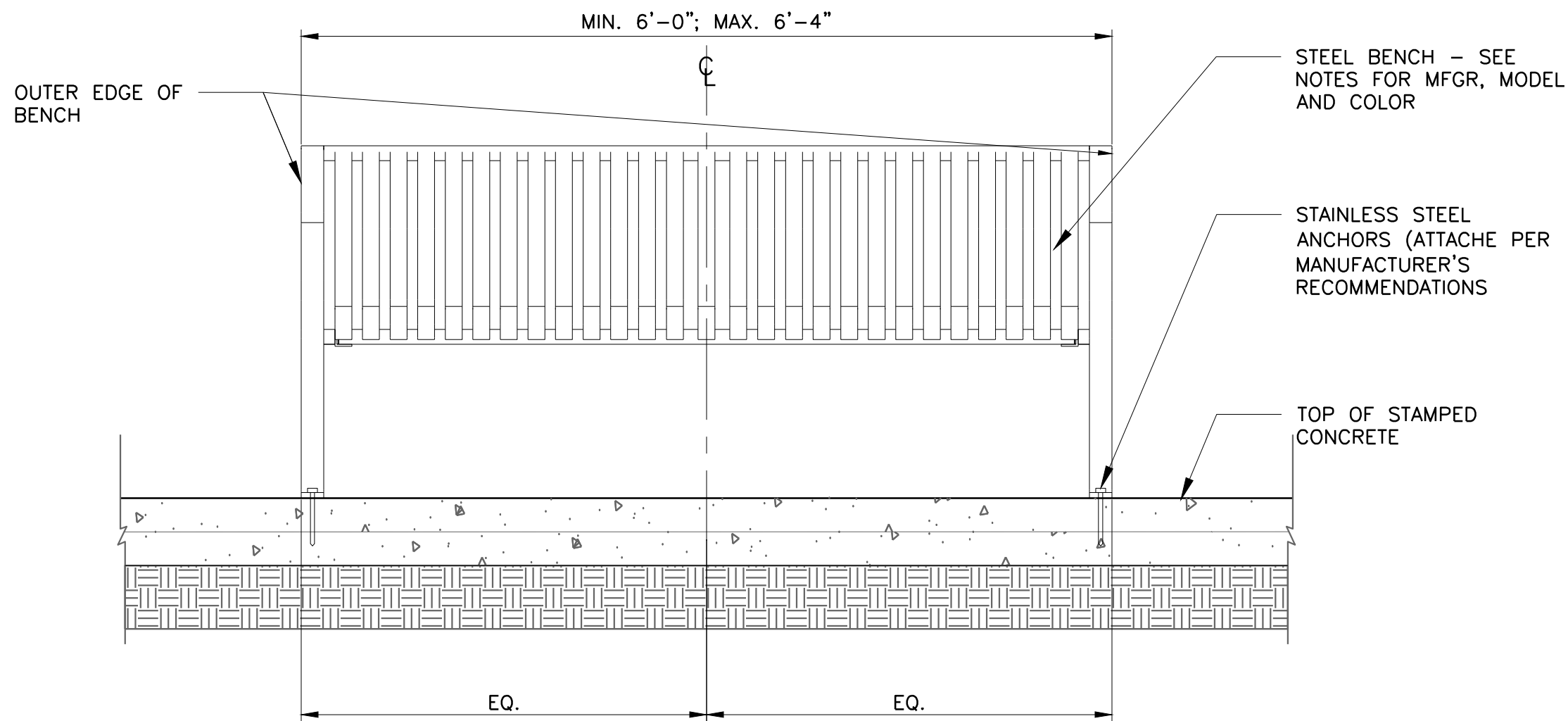
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2025
DESIGNED	MLM
DRAWN	JWST
REVIEWED	JHH
CHECKED	JHH
NO.	1
ISSUE	
BY	
DATE	
FILE NAME	L-DT-COL Dtl 04
DATE	APR 2



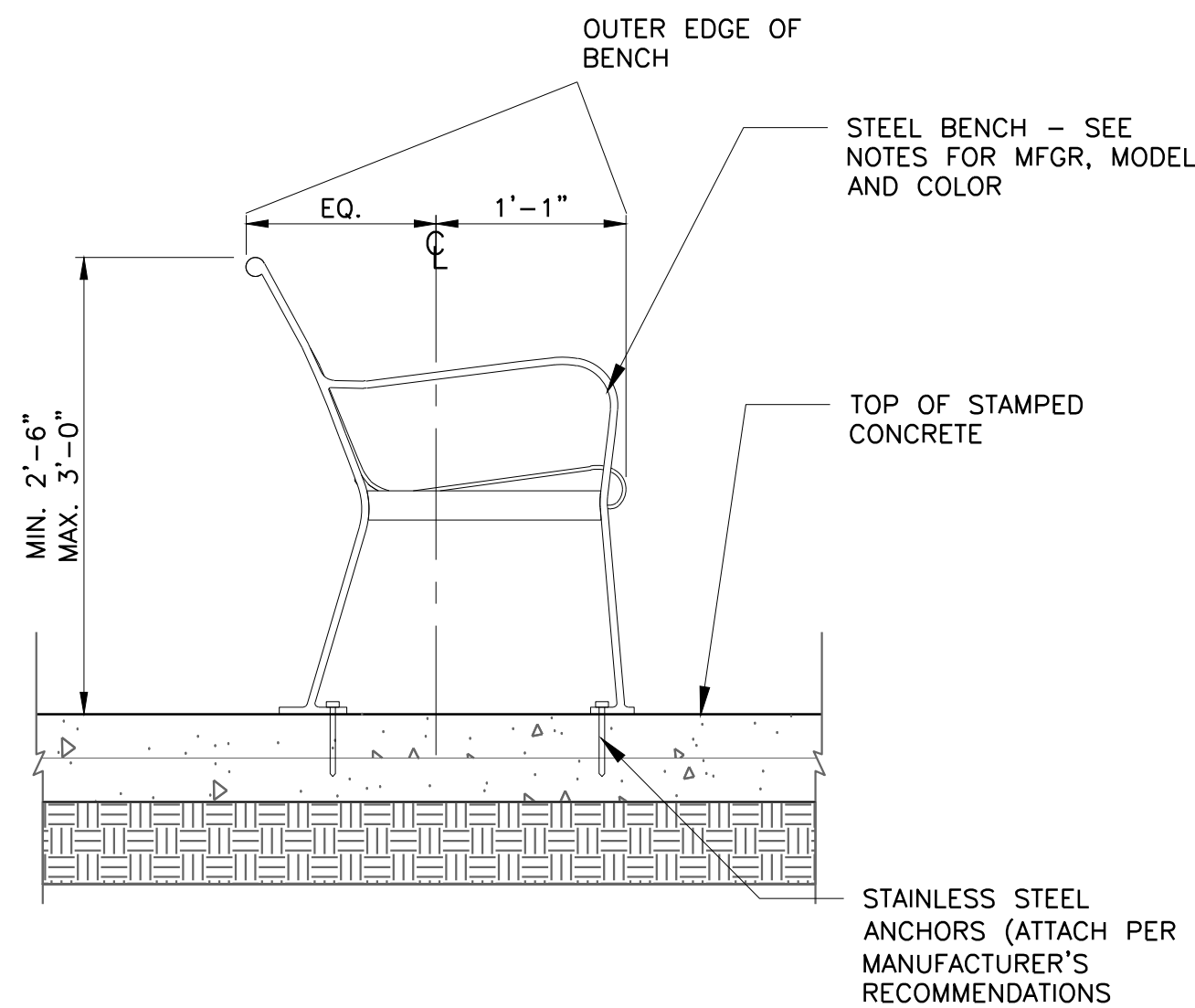
ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-DT-Dtl 06.dwg
Last Saved: 3/5/2025 8:09 PM Saved By: 08457



1 TRASH RECEPTACLE DETAIL
1"=1'-0"



2 BENCH DETAILS
1"=1'-0"



SITE FURNISHING NOTES:

- 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 COAT.

SITE FURNISHING MANUFACTURER SHALL BE:

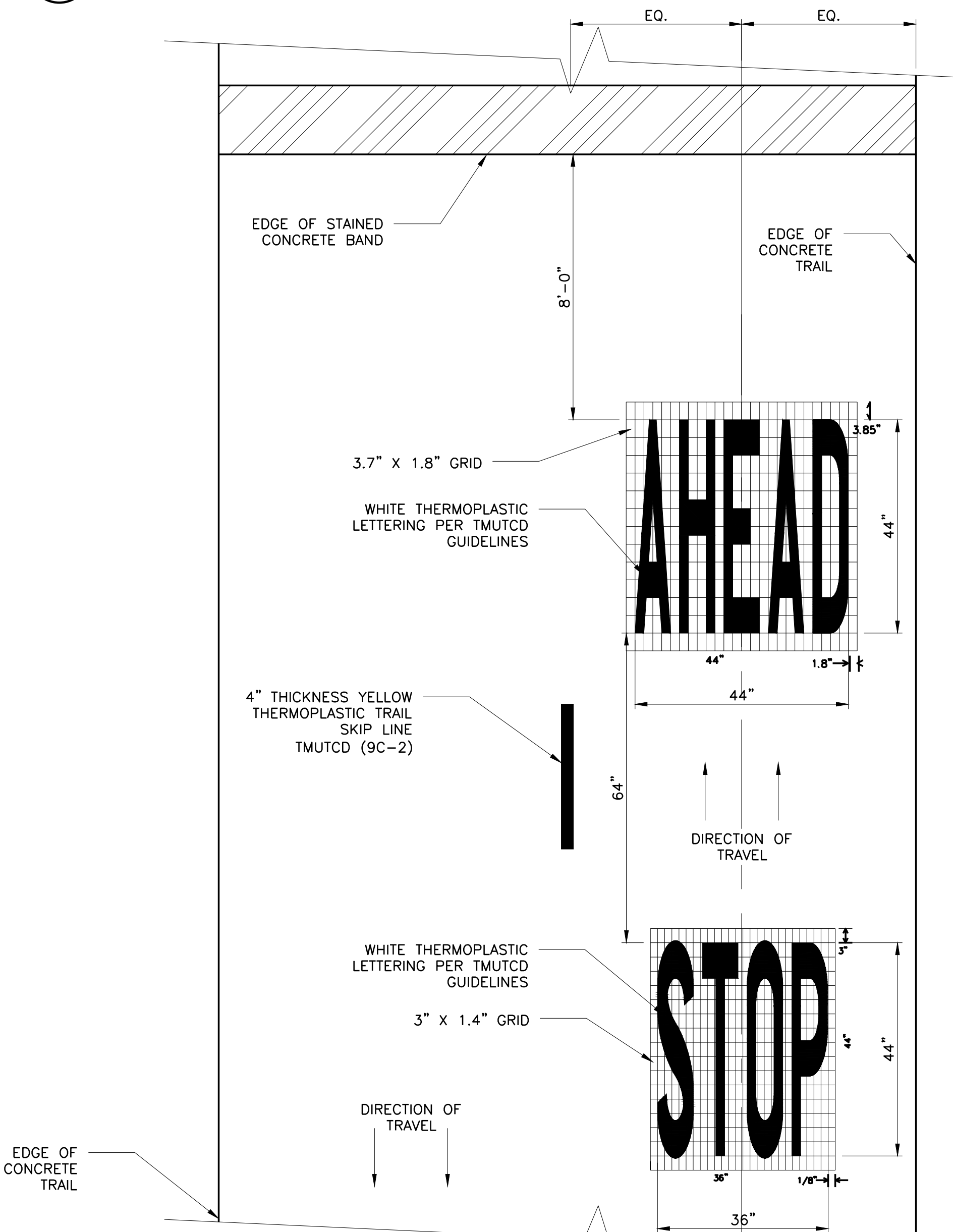
SUBMIT SITE FURNISHINGS PRODUCT DATA AND COLOR SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDER AND INSTALLATION.

BENCH: VICTOR STANLEY, INC., STEELSITES RB SERIES, MODEL RB-28.
TRASH RECEPTACLE: VICTOR STANLEY, INC., T SERIES, MODEL T-32.
BIKE REPAIR STATION: DERO, PLAYCORE, FIXIT SERIES WITH AIR KIT 2.

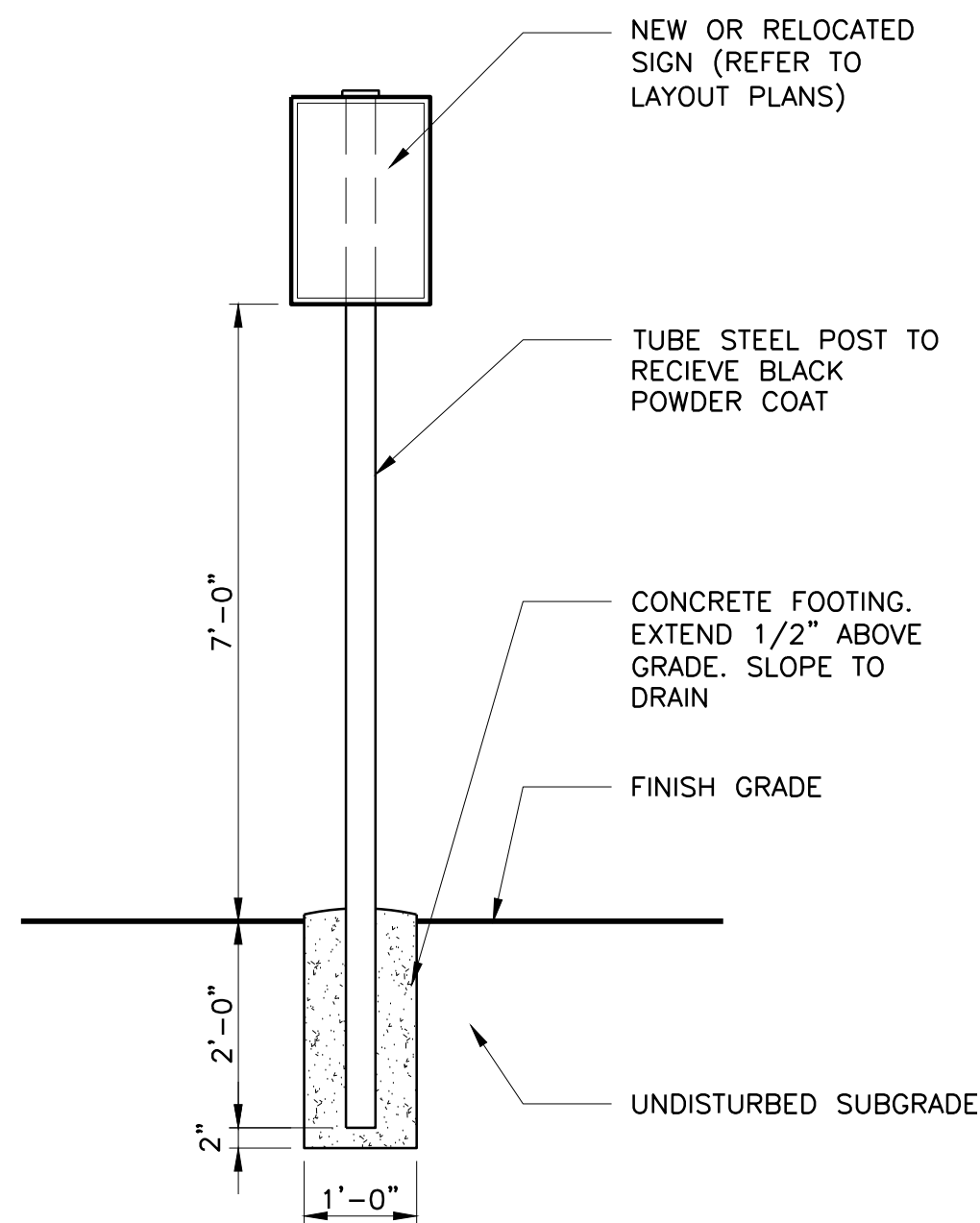
OR EQUIVALENT PRODUCT APPROVED BY LANDSCAPE ARCHITECT.
- ALL SITE FURNISHINGS TO BE SURFACE MOUNTED INTO CONCRETE PADS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL VERIFY INITIAL PLACEMENT OF EACH TYPE OF SITE FURNISHING (BENCH, TRASH RECEPTACLE, BIKE REPAIR STATION) ON SITE WITH LANDSCAPE ARCHITECT PRIOR TO DRILLING OF ANCHOR BOLT HOLES AND INSTALLATION OF INITIAL SITE FURNISHING.

THERMOPLASTIC NOTES:

- CONTRACTOR SHALL INSTALL COLORIZED PAVEMENT MARKINGS AS SPECIFIED. NO SUBSTITUTIONS ARE ALLOWED FOR THIS ITEM.
- PRODUCT SHALL BE HOT APPLIED THERMOPLASTIC PER TXDOT STANDARDS. REFER TO TXDOT STANDARD SPECIFICATION DMS-8220.
- CROSSWALK BARS AND "STOP AHEAD" MARKINGS SHALL BE WHITE COLOR. TRAIL CENTER SKIPLINE SHALL BE YELLOW COLOR.
- "STOP AHEAD" PAVEMENT MARKINGS ARE TO BE INSTALLED TO BE READ FROM THE DIRECTION OF TRAVEL.



3 STOP AHEAD IN TRAIL PAVEMENT MARKING DETAIL
NOT TO SCALE



4 NEW SIGN DETAIL
NOT TO SCALE



W11-2 - PEDESTRIAN CROSSING
QTY = 1
POLE MOUNTED

NOTE:
SIGNS ARE TO FOLLOW MUTCD GUIDELINES.
INSTALL SIGNS PER TXDOT STANDARDS

5 NEW SIGN PANEL DETAIL
NOT TO SCALE

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

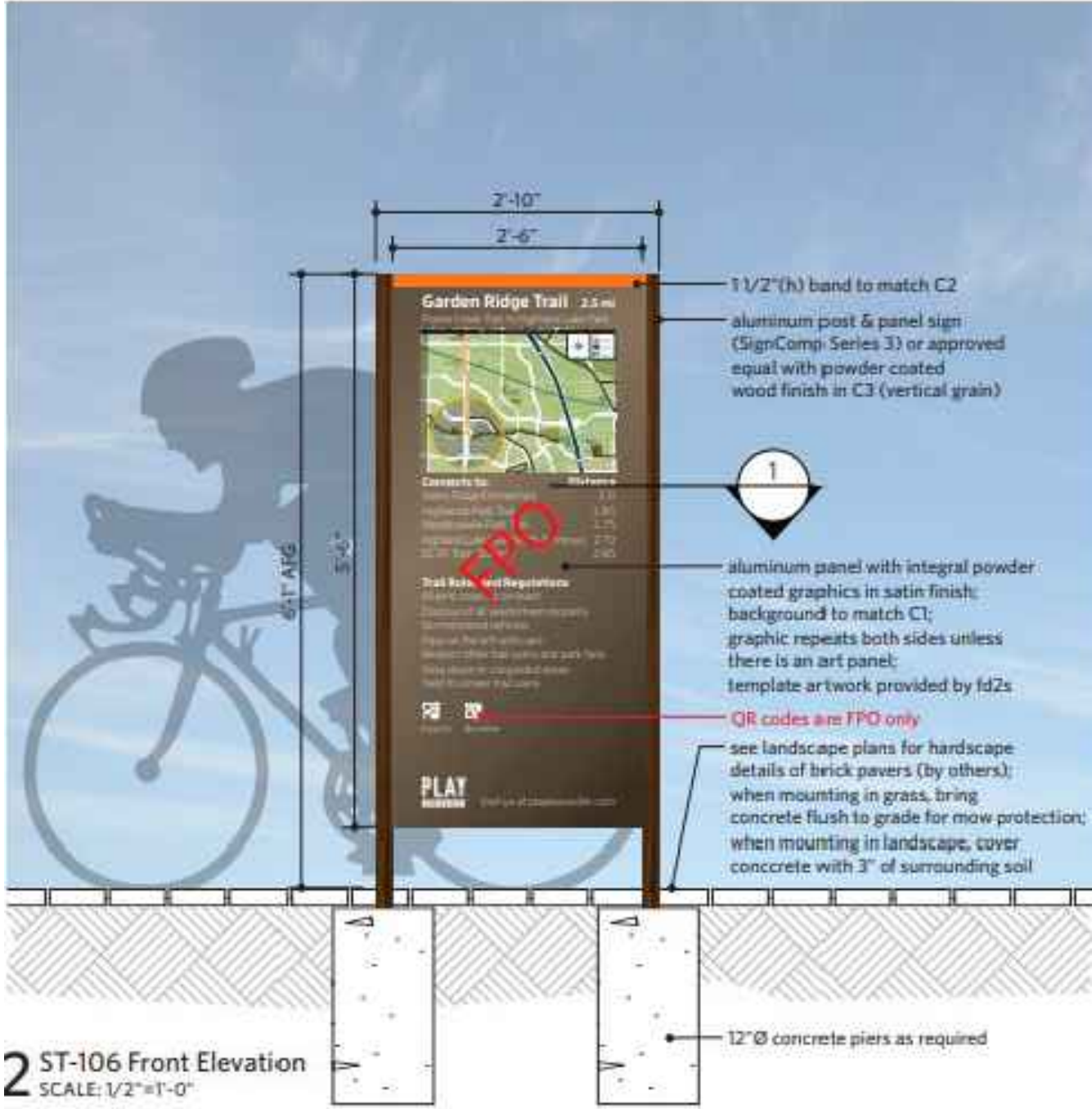
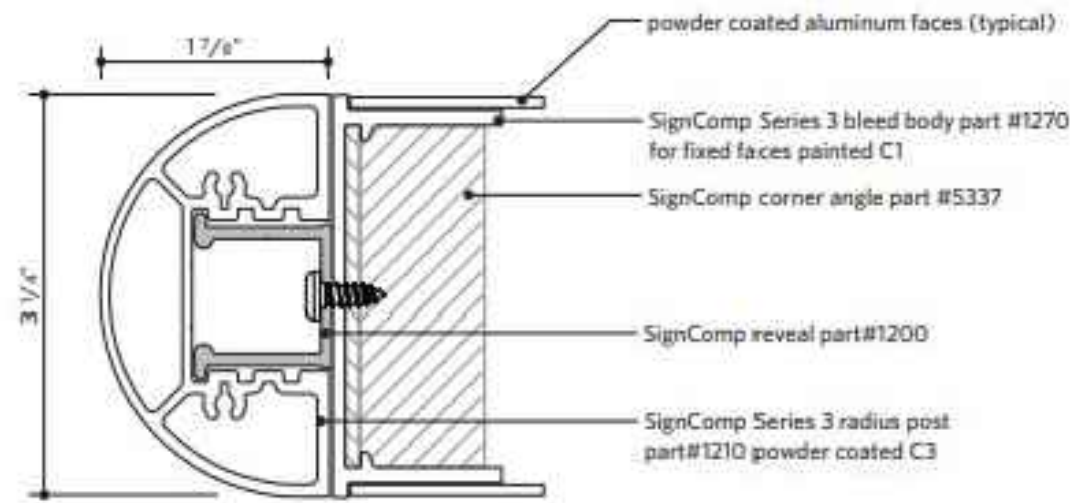


FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75201
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE

SITE DETAILS - 1

NO.	ISSUE	BY	DATE	FILE NAME	06
1	ISSUE			L-DT-Dtl	
2	ISSUE				
3	ISSUE				
4	ISSUE				
5	ISSUE				
6	ISSUE				
7	ISSUE				
8	ISSUE				
9	ISSUE				
10	ISSUE				
11	ISSUE				
12	ISSUE				
13	ISSUE				
14	ISSUE				
15	ISSUE				
16	ISSUE				
17	ISSUE				
18	ISSUE				
19	ISSUE				
20	ISSUE				
21	ISSUE				
22	ISSUE				
23	ISSUE				
24	ISSUE				
25	ISSUE				
26	ISSUE				
27	ISSUE				
28	ISSUE				
29	ISSUE				
30	ISSUE				
31	ISSUE				
32	ISSUE				
33	ISSUE				
34	ISSUE				
35	ISSUE				
36	ISSUE				
37	ISSUE				
38	ISSUE				
39	ISSUE				
40	ISSUE				
41	ISSUE				
42	ISSUE				
43	ISSUE				
44	ISSUE				
45	ISSUE				
46	ISSUE				
47	ISSUE				
48	ISSUE				
49	ISSUE				
50	ISSUE				
51	ISSUE				
52	ISSUE				
53	ISSUE				
54	ISSUE				
55	ISSUE				
56	ISSUE				
57	ISSUE				
58	ISSUE				
59	ISSUE				
60	ISSUE				
61	ISSUE				
62	ISSUE				
63	ISSUE				
64	ISSUE				
65	ISSUE				
66	ISSUE				
67	ISSUE				
68	ISSUE				
69	ISSUE				
70	ISSUE				
71	ISSUE				
72	ISSUE				
73	ISSUE				
74	ISSUE				
75	ISSUE				
76	ISSUE				
77	ISSUE				
78	ISSUE				
79	ISSUE				
80	ISSUE				
81	ISSUE				
82	ISSUE				
83	ISSUE				
84	ISSUE				
85	ISSUE				
86	ISSUE				
87	ISSUE				
88	ISSUE				
89	ISSUE				
90	ISSUE				
91	ISSUE				
92	ISSUE				
93	ISSUE				
94	ISSUE				
95	ISSUE				
96	ISSUE				
97	ISSUE				
98	ISSUE				
99	ISSUE				
100	ISSUE				



1 ST-106 DETAILS
L4.07 NTS

NOTES:

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



Dallas, Texas 75204
 Phone - (214) 217-2200
 Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS

HEBRON PARKWAY

LANDSCAPE ARCHITECTURE

WAY FINDING SIGN DETAILS

NO. ISSUE	BY	DATE	FRM JOB NO.
			LEW23694
		DATE	APR 2025
		DESIGNED	MLM
		DRAWN	JMST
		REVISION	CHECKED
			JHJH
VERIFY SCALE ☐ Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.		FILE NAME	
0 1		L-DT-Dtl 06	

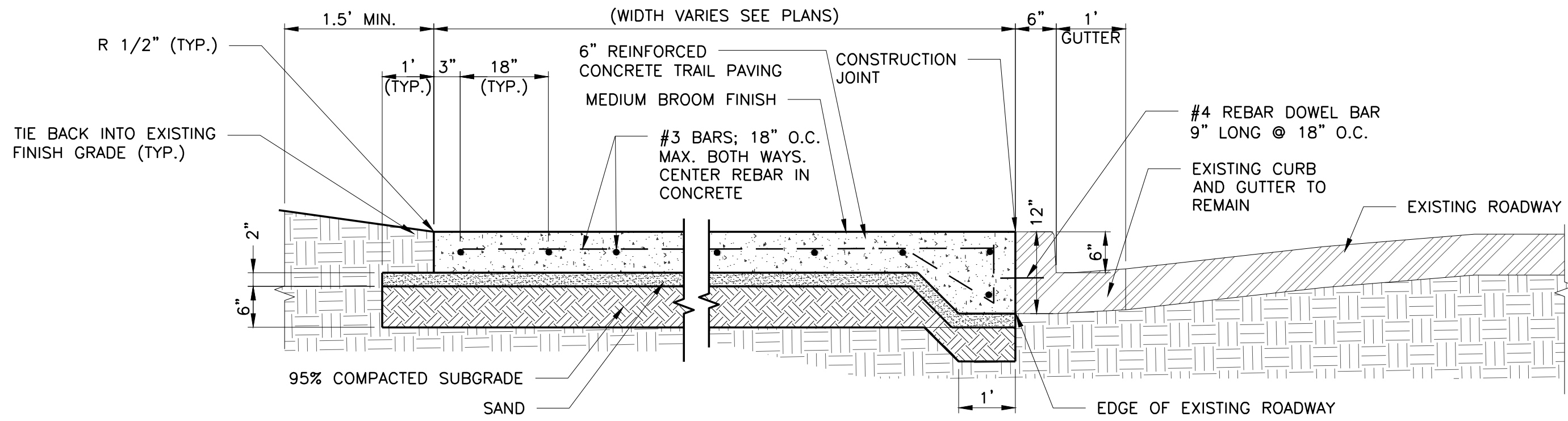
L4.07

SEQ. 31 OF 46

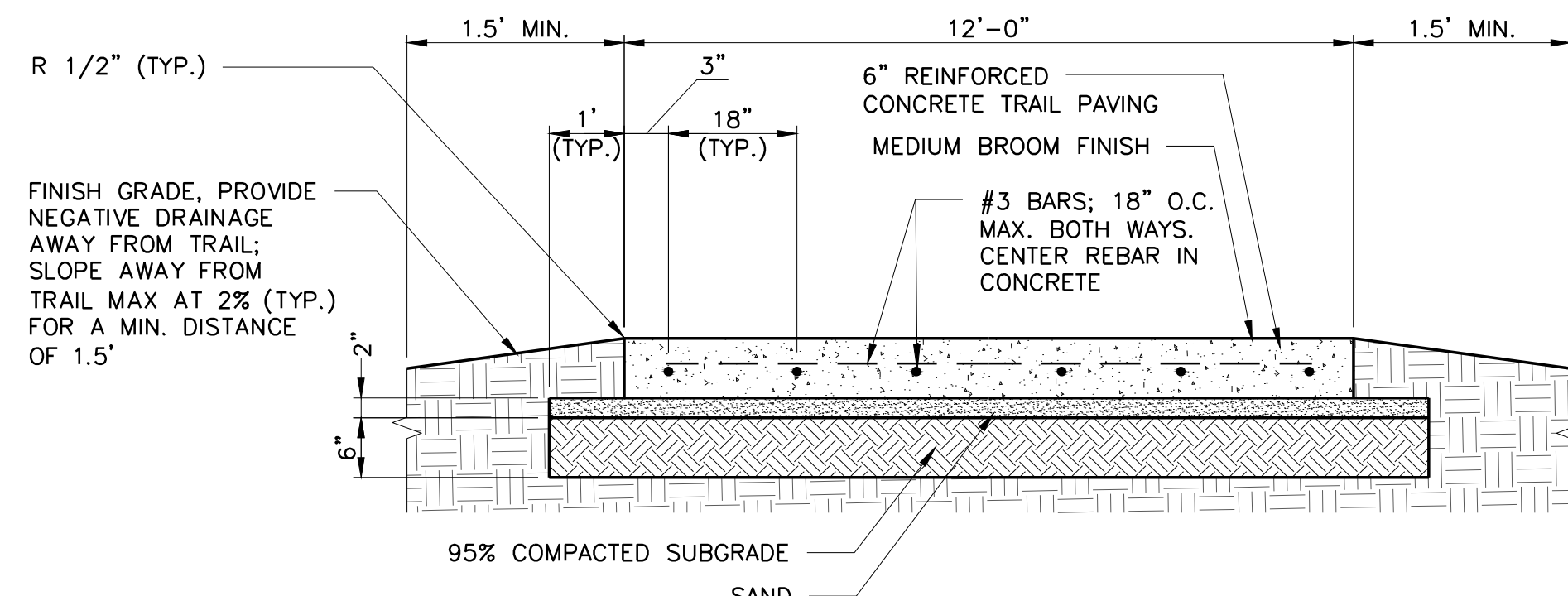
ISSUED FOR BID

31 OF 46

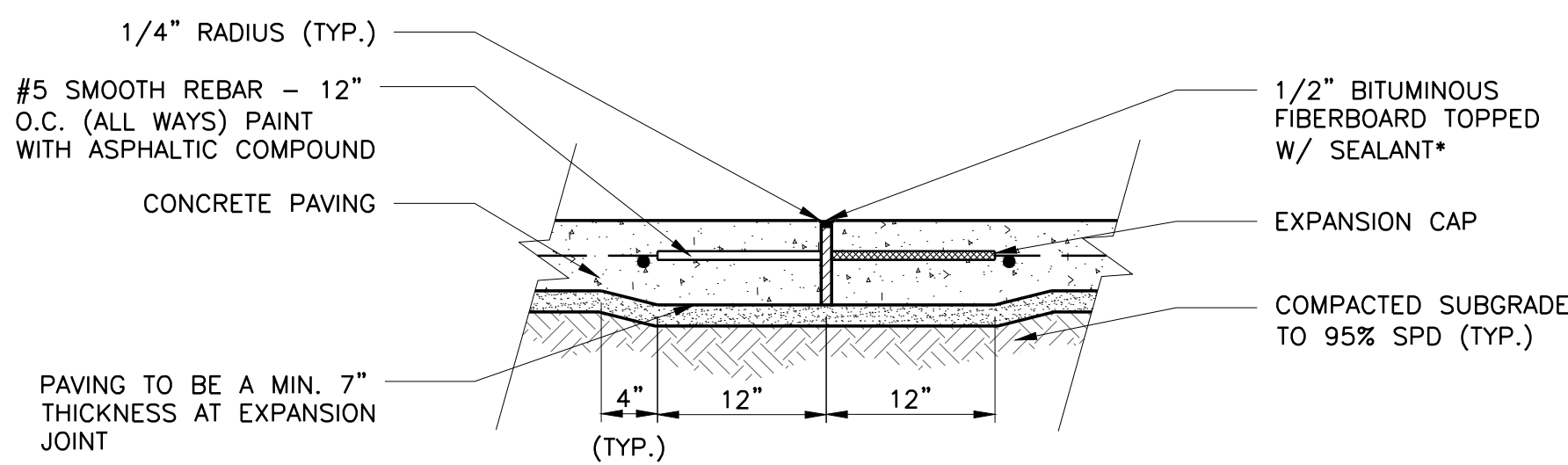
ACAD: Rel: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-DT-DT1 07.dwg
Last Saved: 3/5/2025 10:26 AM
Saved By: 06457



1
L4.08
TYPICAL TRAIL SECTION WITH CURB
NOT TO SCALE

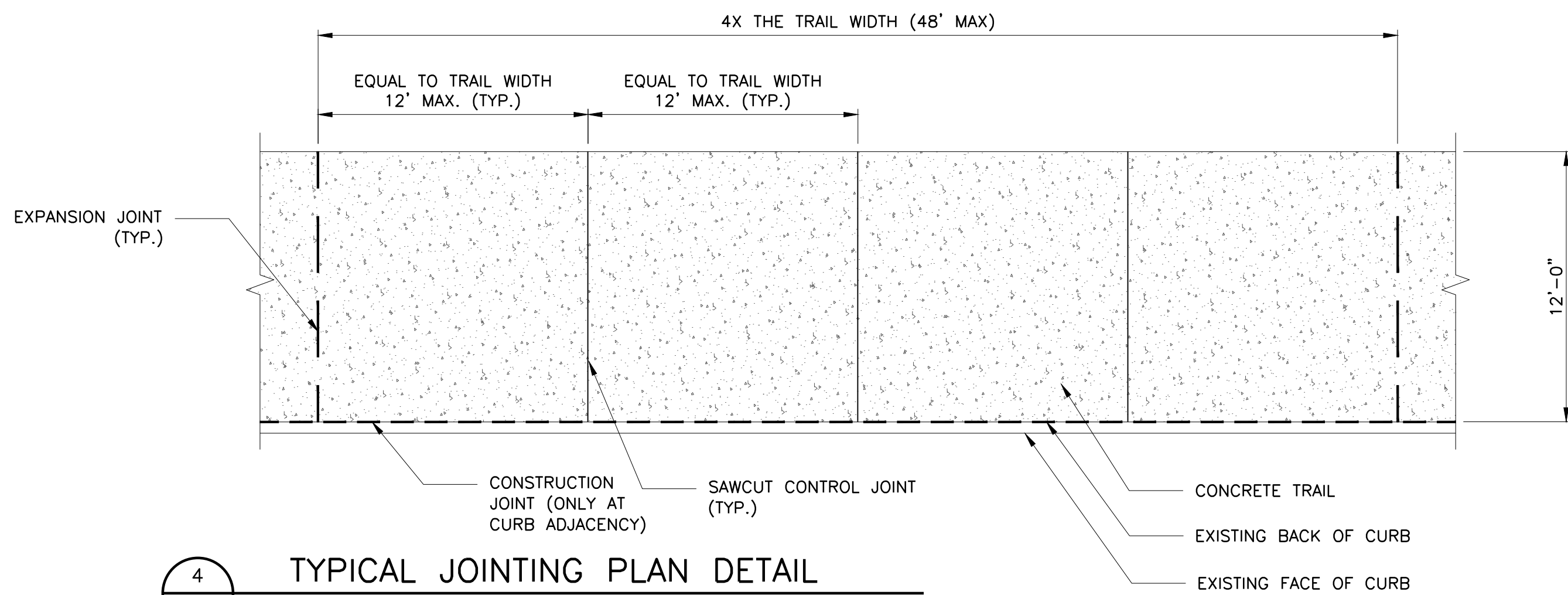


2
L4.08
TYPICAL TRAIL SECTION WITHOUT CURB
NOT TO SCALE



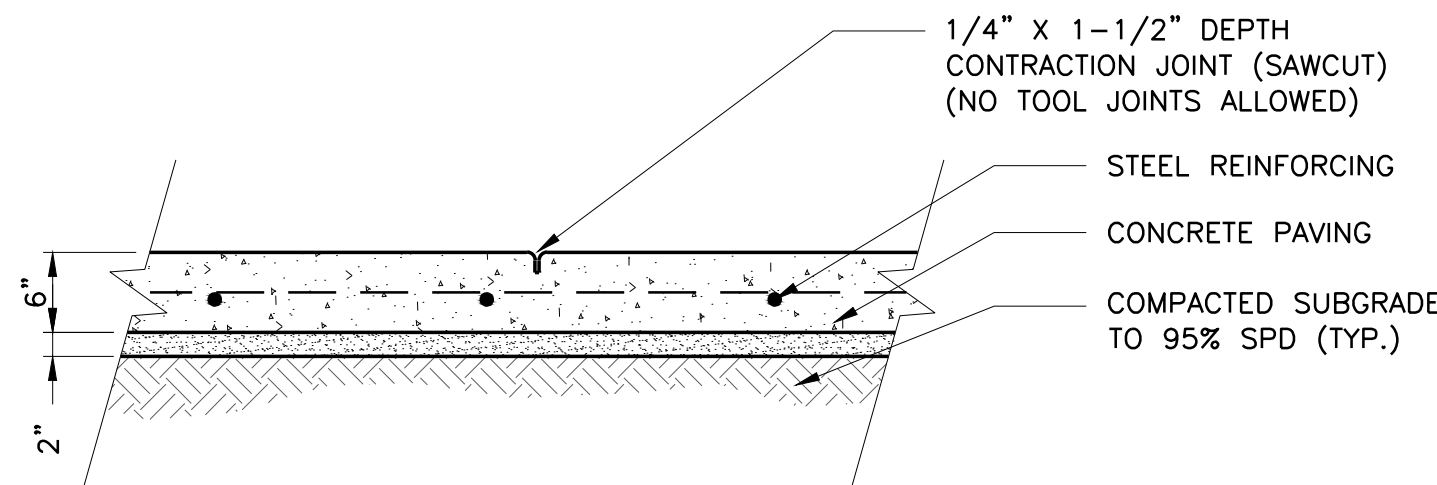
NOTE:
* CONTRACTOR TO SUBMIT JOINT SEALANT COLORS TO OWNER FOR APPROVAL.

3
L4.08
TYPICAL EXPANSION JOINT DETAIL
NOT TO SCALE

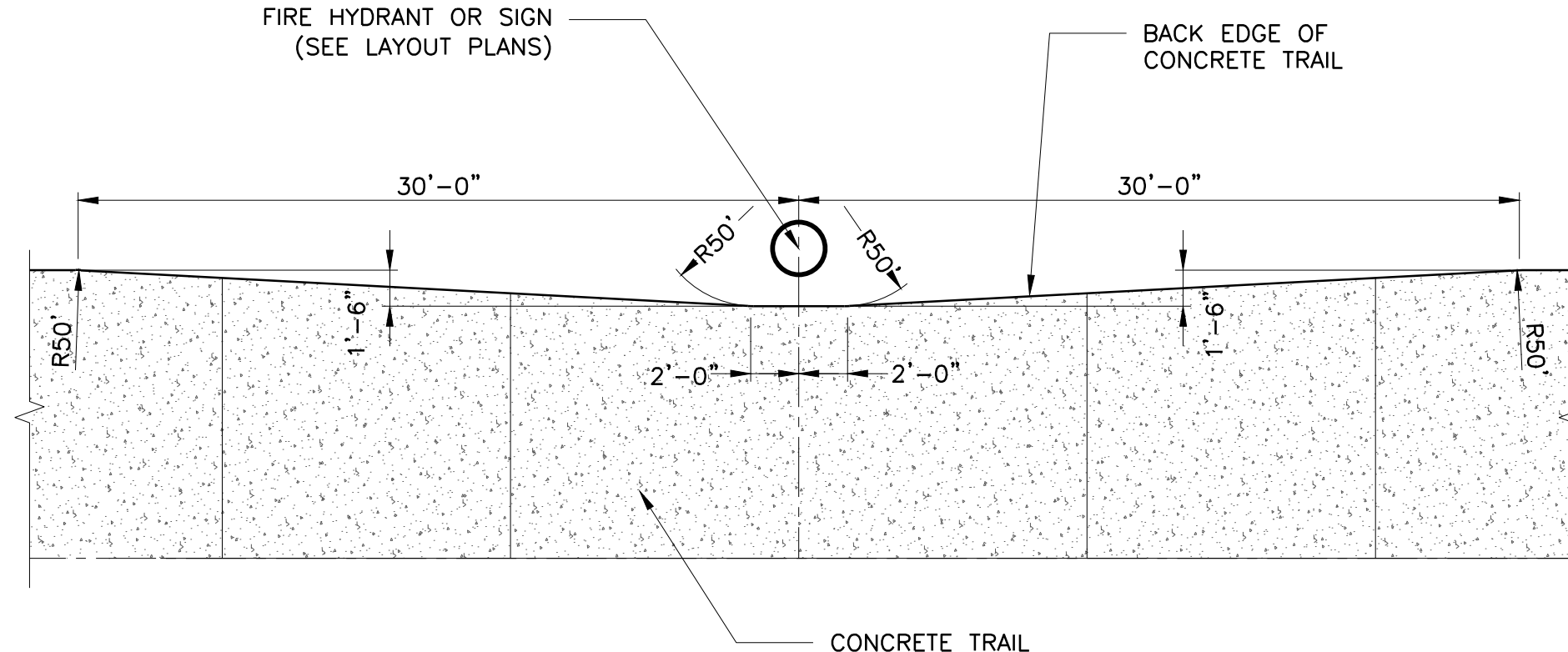


4
L4.08
TYPICAL JOINTING PLAN DETAIL
NOT TO SCALE

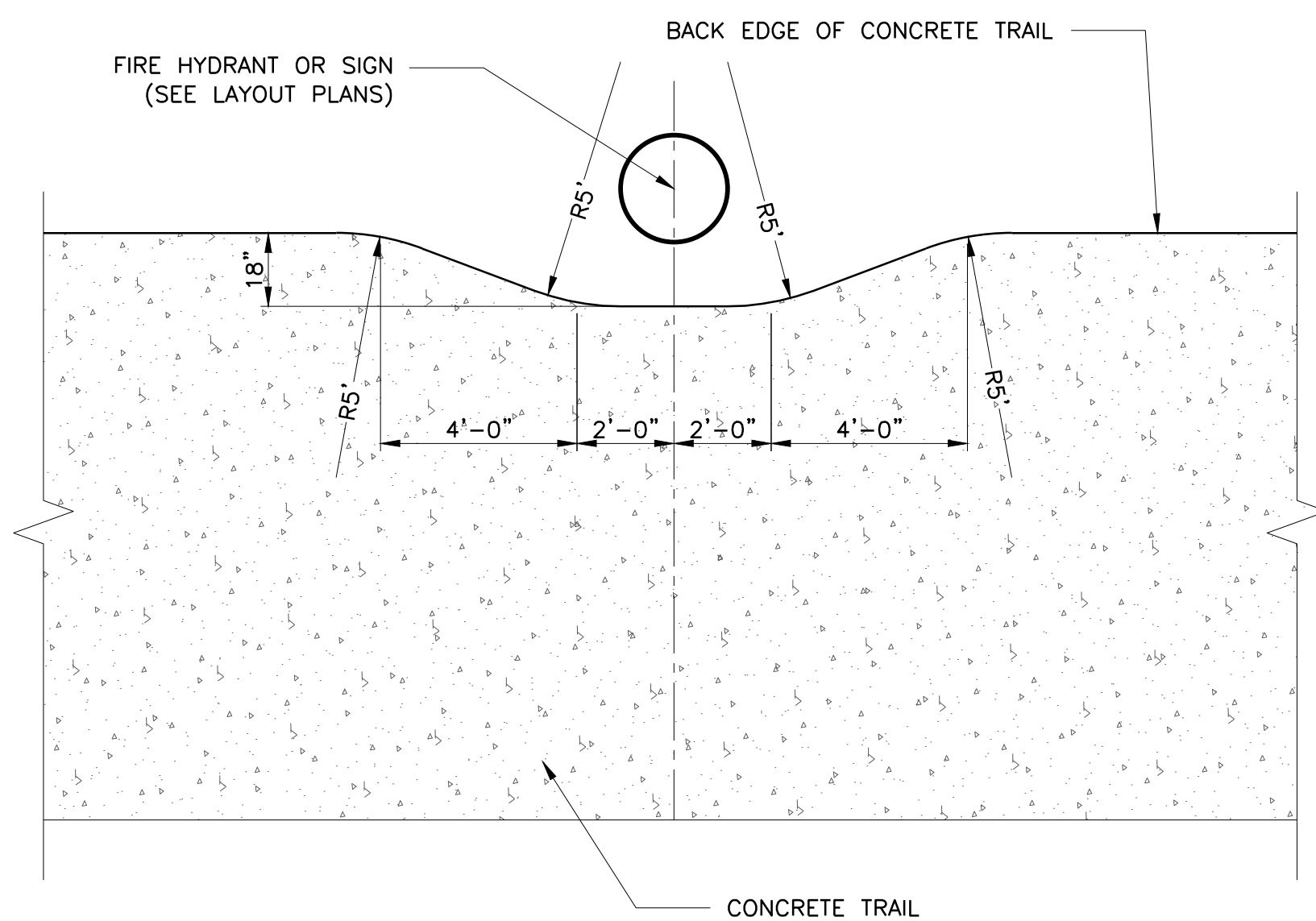
- NOTES:**
- ALL EXPANSION JOINTS SHALL BE TOPPED AND SEALED WITH A SELF-LEVELING ELASTOMERIC JOINT COMPOUND AND SHALL BE FLUSH WITH THE TOP SURFACE OF PAVEMENT ON BOTH SIDES OF THE JOINT.
 - EXPANSION JOINTS WILL BE REQUIRED AT ALL POINT OF CURVES AND POINT OF TANGENTS.
 - THE CONTRACTOR SHALL SUBMIT THE DOWEL SUPPORT METHOD TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION.
 - REFER TO SPECIFICATION 03 10 00 FOR CONCRETE FORMWORK INFORMATION.
 - REFER TO SPECIFICATION 03 20 00 FOR REINFORCING STEEL INFORMATION.
 - REFER TO SPECIFICATION 03 30 00 FOR CAST-IN-PLACE CONCRETE INFORMATION.



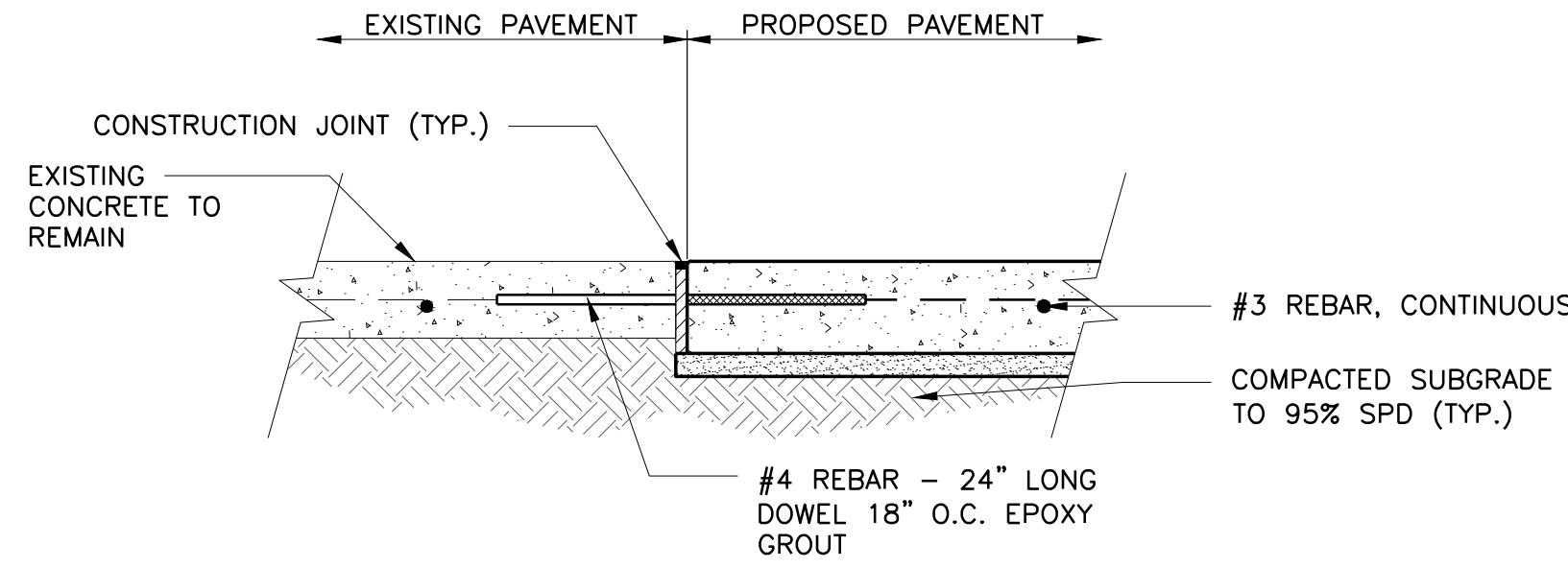
5
L4.08
TYPICAL SAWCUT CONTROL JOINT DETAIL
NOT TO SCALE



7
L4.08
TRAIL TRANSITION DETAIL (TYPE A)
NOT TO SCALE



8
L4.08
TRAIL TRANSITION DETAIL (TYPE B)
NOT TO SCALE



6
L4.08
PROPOSED CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT CONNECTION
NOT TO SCALE

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



FREESE & NICHOLS
2711 North Hagel Ave, Suite 3300
Dallas, Texas 75219
Phone - (214) 217-2200
Fax - (214) 217-2201

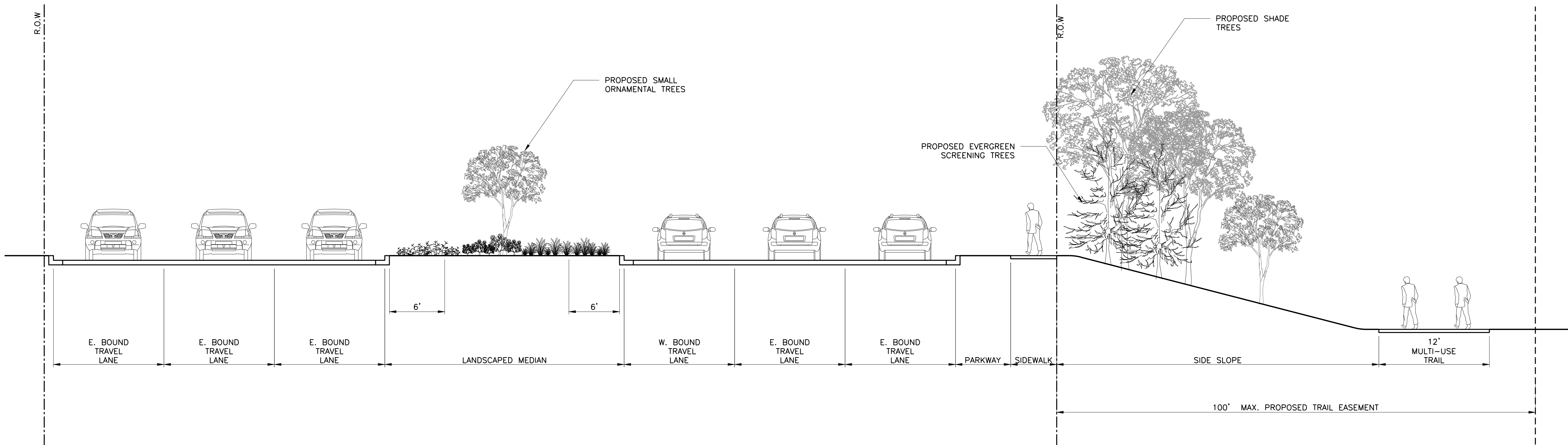
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
MULTI-USE TRAIL DETAILS

PROJECT NO.	LEW23694	DATE	APR 2025	DESIGNED	MLM	DRAWN	JWST	CHECKED	JHH
BY									
NO.	ISSUE								
Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.									
VERIFY SCALE	0								

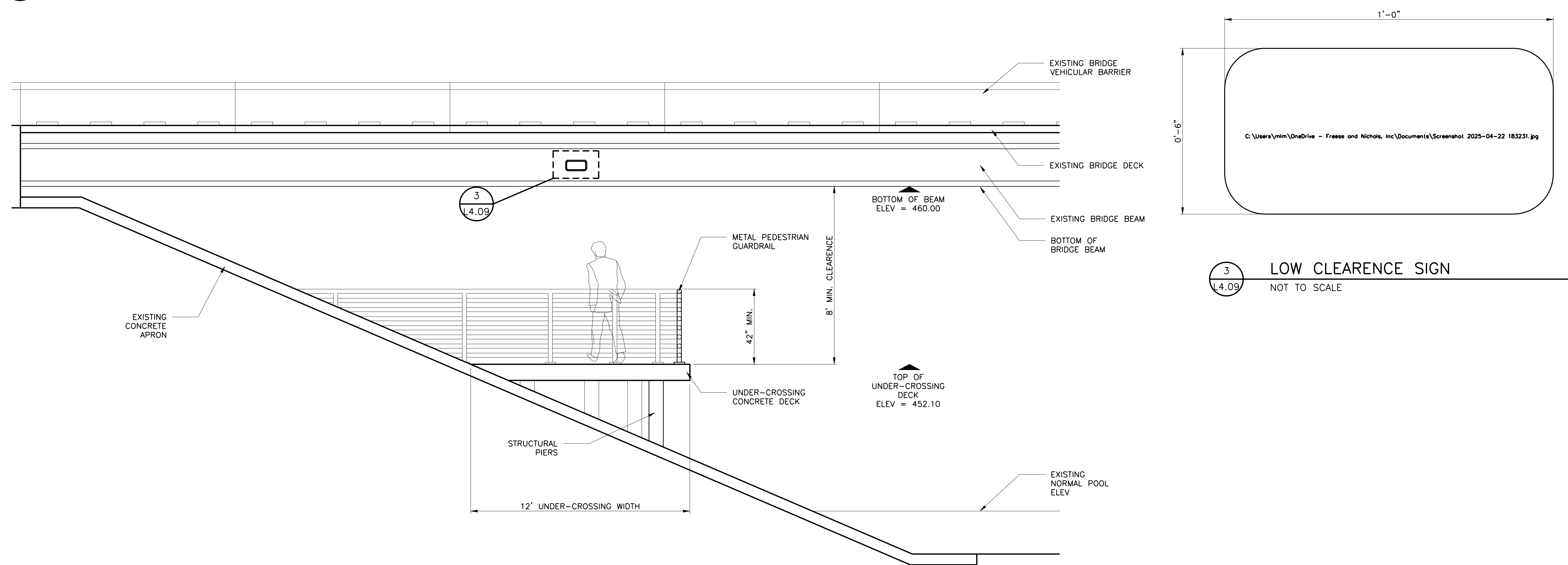
SHEET
L4.08

ISSUED FOR BID

SEQ.
32 OF 46



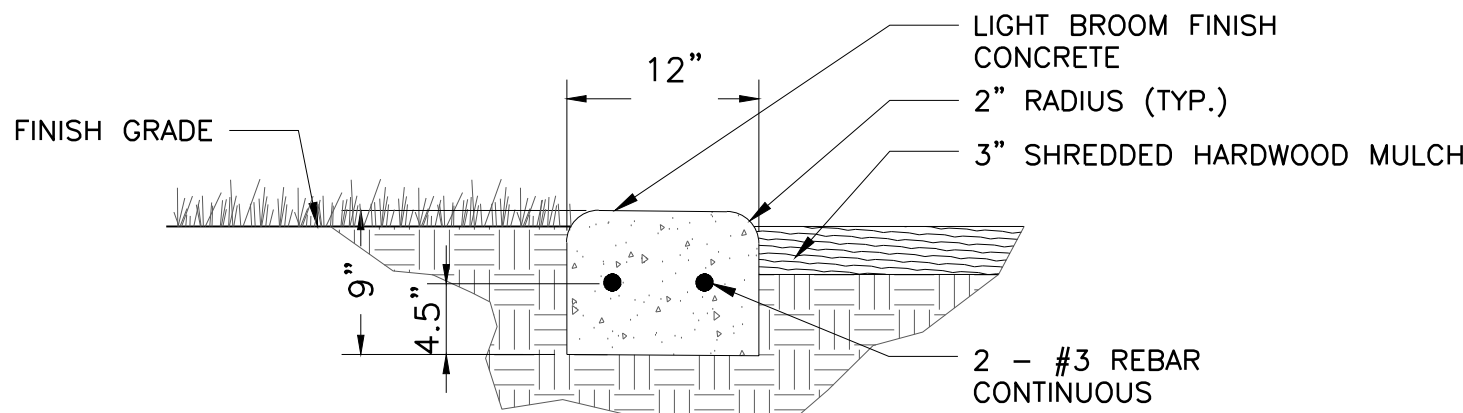
1
L4.09
HEBRON PARKWAY TYPICAL SECTION
NOT TO SCALE



2
L4.09
BRIDGE UNDER-CROSSING SECTION
NOT TO SCALE

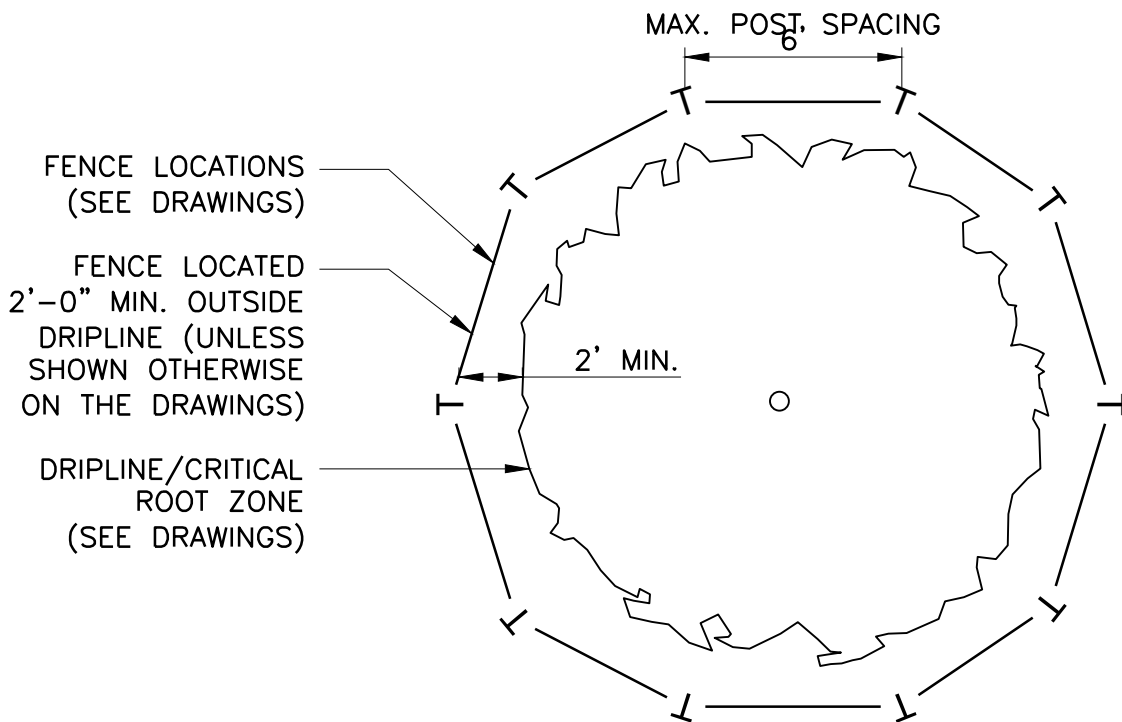
NO.	ISSUE	BY	DATE	FILE NAME
1	ISSUE			L-DT-Dtl 08
2	ISSUE			
3	ISSUE			
4	ISSUE			
5	ISSUE			
6	ISSUE			
7	ISSUE			
8	ISSUE			
9	ISSUE			
10	ISSUE			

ACAD Ref: 25.0s (LMS Tech)
Filename: N:\LA\Drawings\L-DT-PLNT03.dwg
Last Saved: 3/5/2025 8:14 PM Saved By: 08457



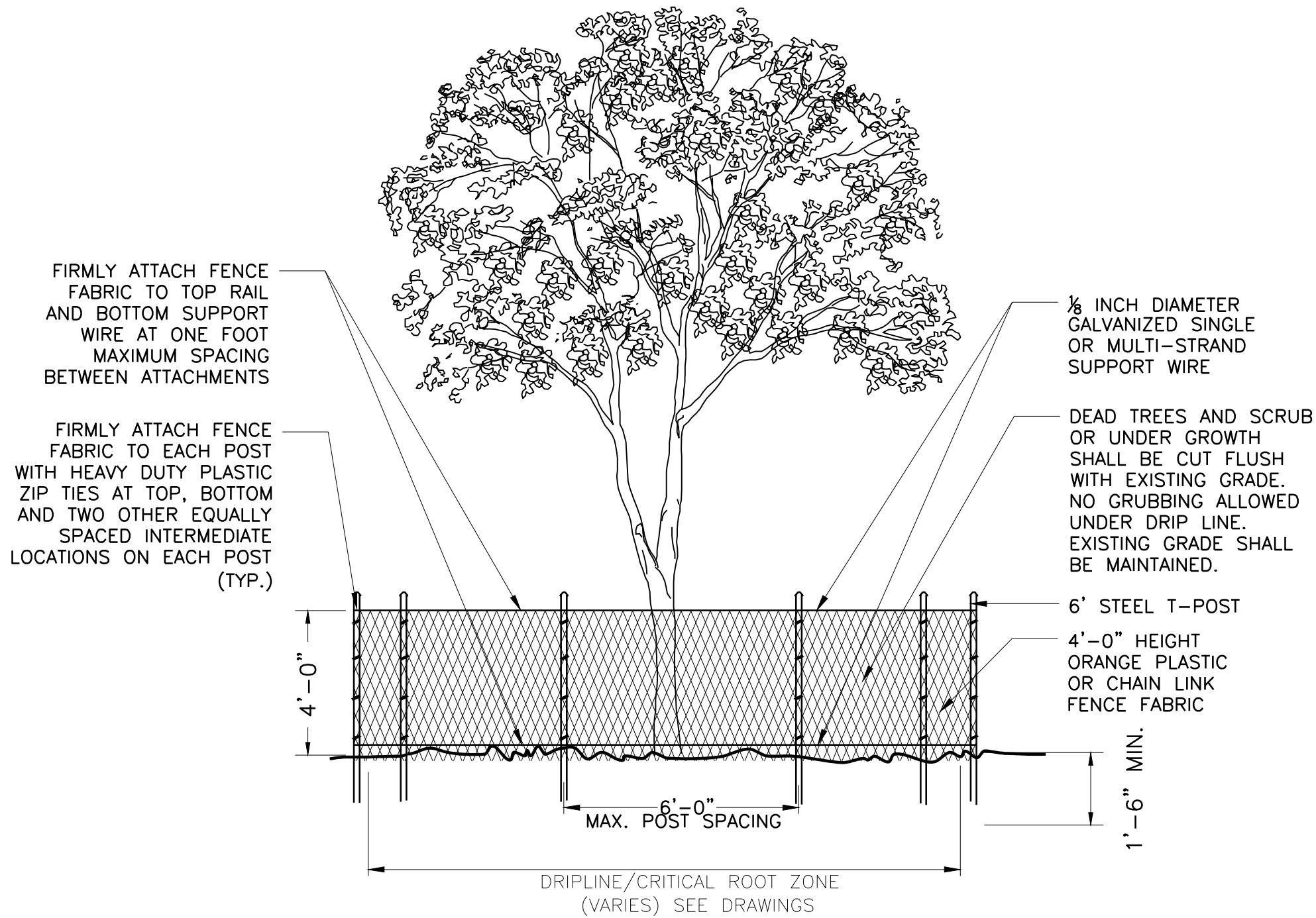
NOTES:
DOWEL CONCRETE CONTAINMENT BAND INTO ADJOINING PAVEMENT.

1 SITE CONCRETE CONTAINMENT BAND
1"=1'-0"



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.

2 TREE PROTECTION FENCE DETAIL – PLAN VIEW
NOT TO SCALE



3 TREE PROTECTION FENCE DETAIL – ELEVATION
1/2"=1'-0"

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



FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75218
Phone - (214) 217-2200
Fax - (214) 217-2201

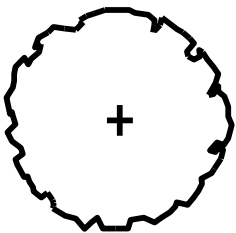
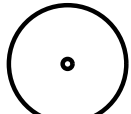
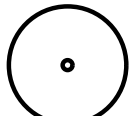
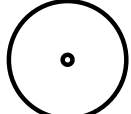
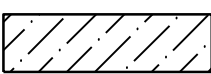
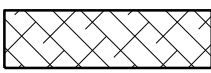
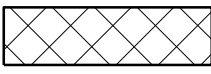
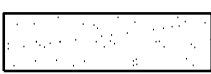
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
LANDSCAPE PLANTING DETAILS

NO.	ISSUE	BY	DATE	REV	DATE	DESIGNED	MLM	DRAWN	JWST	CHECKED	JHH	FILE NAME
0												L-DT-PLNT03
1	VERIFY SCALE											Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

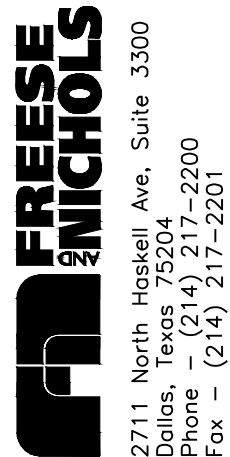
SHEET
L5.02
SEQ. 35 OF 46

ISSUED FOR BID

ACAD_Ret: 25.0s (LMS_Tech)
Filename: N:\LA\Drawings\L-P\PInt_List.dwg
Last Saved: 3/5/2025 8:23 PM Saved By: 08457

PLANT LIST							
SYMBOL	PLANT ABBREVIATION	QUANTITY	MIN. SIZE	COMMON NAME	BOTANICAL NAME	CONDITION	COMMENTS
SHADE TREES							
	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 ORNAMENTAL 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 SCREENING 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/ORNAMENTAL GRASSES/GROUND COVERS							
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

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



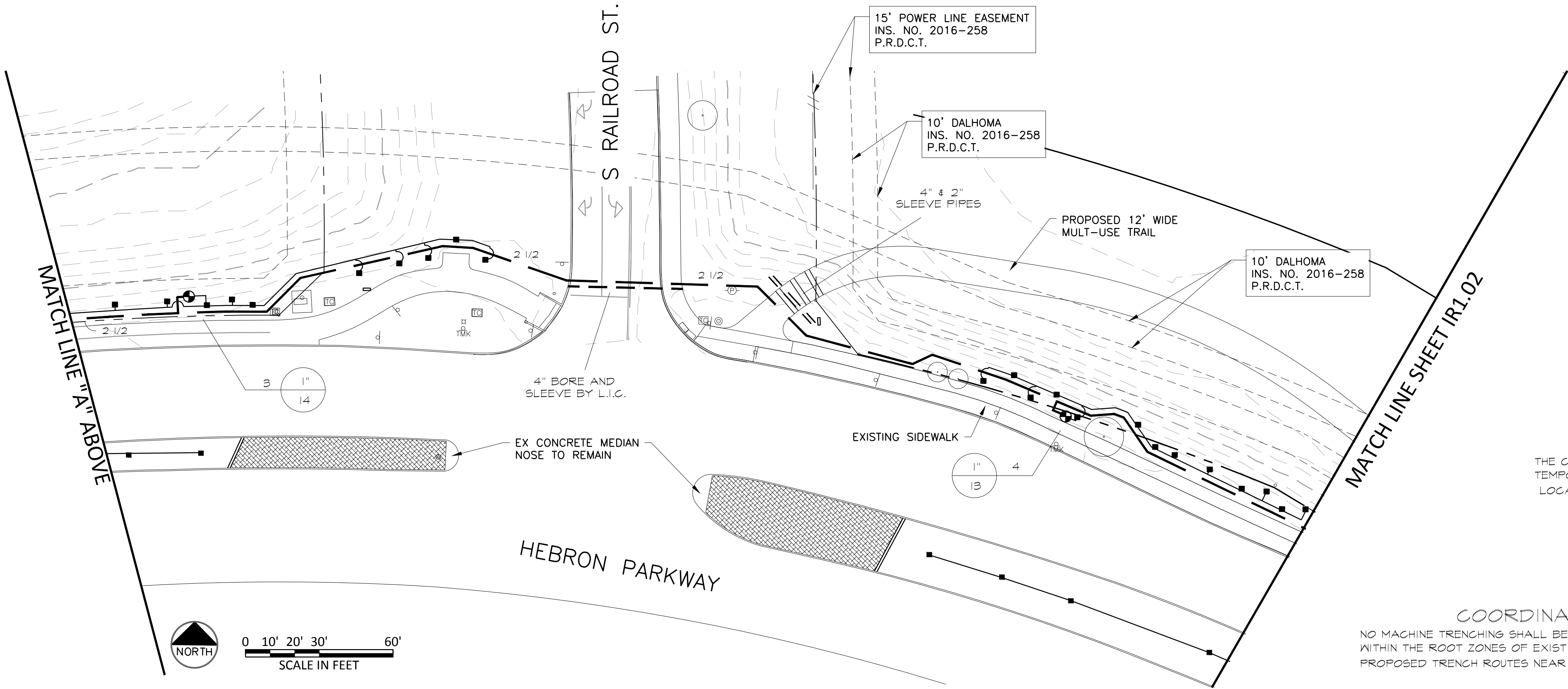
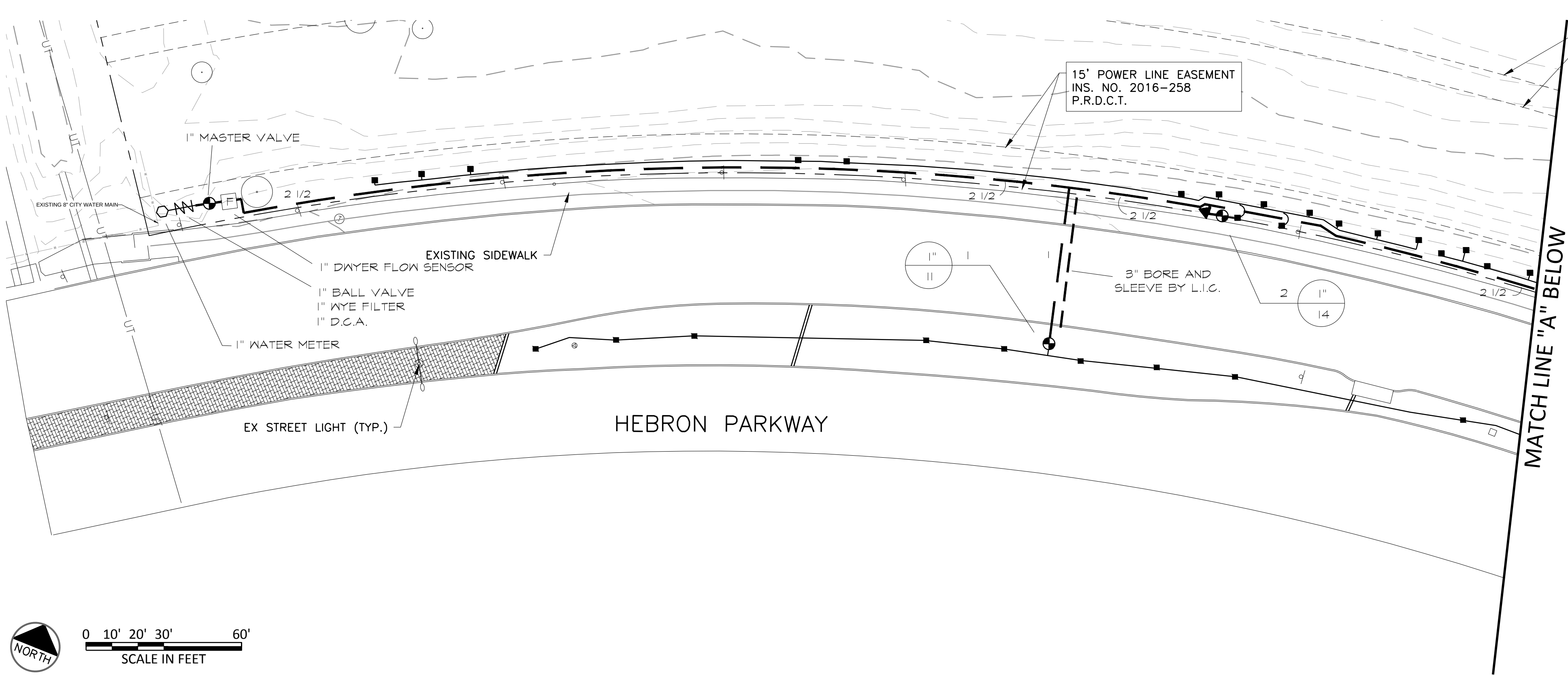
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
PLANT LIST

NO.	ISSUE	BY	DATE	P&N JOB NO.	DATE	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME	List
				LEW23694	APR 2025	MLM	JWST		JHH	L-P\PI-Int	
VERIFY SCALE: Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.											
0											

SHEET
L5.03
SEQ. 36 OF 46

ISSUED FOR BID

ACAD Ref: 231s (LMS Tech)
Filename: C:\Users\A\Jones Pole Irri. Dropbox\Irrigation\FreeseandNichols\HebronParkway\022825\Hebron Parkway CAD Files\IRRIGATION.dwg
Last Saved: 3/5/2025 4:15 PM Saved By: A



- LEGEND
- HUNTER RZW5-18-50-CV SERIES ROOT WATERING SYSTEM WITH .5 GPM PRESSURE COMPENSATING BUBBLER NOZZLES. PROVIDE TWO PER TREE, ON OPPOSITE SIDES OF ROOT BALL.
 - ⊕ HUNTER 1CV SERIES ELECTRIC REMOTE CONTROL VALVE WITH DC LATCHING SOLENOID AND SAME SIZE PVC BALL VALVE
 - ▲ HUNTER HQ-33-LRG-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
 - 1" ZURN WILKINS 350 SERIES D.C.A. INSTALLED PER CITY CODE, WITH SAME SIZE 850 SERIES BRONZE BALL VALVE AND SXL BRONZE WYE FILTER WITH 20 MESH STAINLESS STEEL SCREEN
 - 1" 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 1" FLOW SENSOR INSTALLED PER MANUFACTURER'S INCLUDING WIRE TYPE / SIZE.
 - CLASS 200 PVC MAINLINE PIPE
 - CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE
 - BORE BY L.I.C. WITH CLASS 200 SLEEVE PIPE AT EXISTING PAVEMENT, SIZE AS NOTED
 - == CLASS 200 PVC SLEEVE PIPES AT PROPOSED PAVEMENT, SIZES AS NOTED

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.

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 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.

James Pole
IRRIGATION CONSULTANTS

IRRIGATION DESIGN, CONSULTING, AND
LANDSCAPE WATER MANAGEMENT

TEXAS L.I.C. #658 P.O. BOX 1845 DENTON, TEXAS 76202
PHONE: 940.243.2364 CELL: 912.998.1119 james@jamespoleirrigation.com

EPA WaterSense PARTNER

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

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

FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Frisco, Texas 75034
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
LANDSCAPE IRRIGATION PLAN
AREAS 1 & 2

NO.	ISSUE	BY	DATE	REV. JOB NO.	DATE	DESIGNED	DRAWN	REVISED	CHECKED	FILE NAME
				LEW23694	MAR 2025	JP	JP			IRRIGATION

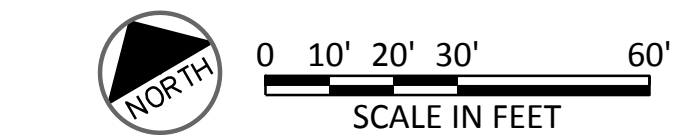
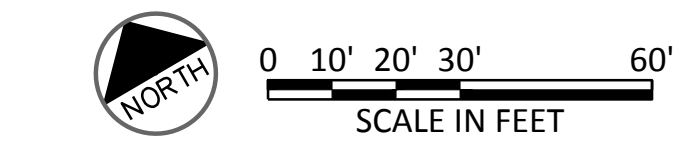
VERIFY SCALE 1" = 100'

Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

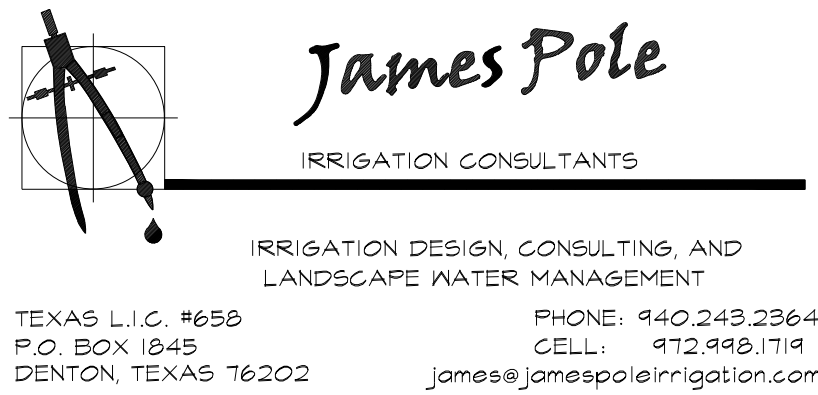
SHEET IR1.01

ISSUED FOR BID

SEQ. #



COORDINATION WITH EXISTING TREES



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

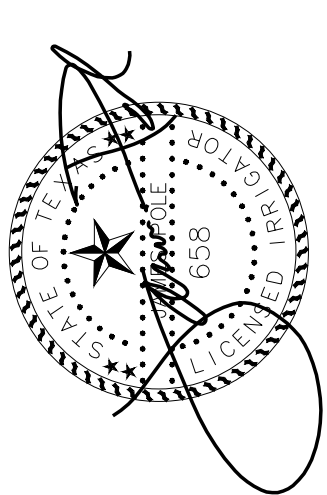
LEGEND

-  HUNTER RZWS-10-50-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-LRG-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
-  1" ZURN WILKINS 350 SERIES D.C.A. INSTALLED PER CITY CODE, WITH SAME SIZE 850 SERIES BRONZE BALL VALVE AND SXL BRONZE WYE FILTER WITH 20 MESH STAINLESS STEEL SCREEN
-  1" 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 1" FLOW SENSOR INSTALLED PER MANUFACTURER'S INCLUDING WIRE TYPE / SIZE.
-  CLASS 200 PVC MAINLINE PIPE
-  CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE
-  BORE BY L.I.C. WITH CLASS 200 SLEEVE PIPE AT EXISTING PAVEMENT, SIZE AS NOTED
-  CLASS 200 PVC SLEEVE PIPES AT PROPOSED PAVEMENT, SIZES AS NOTED

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.

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



03 / 05 / 2025

FREES & NICHOLS

2711 North Haskell Ave., Suite 3300
Dallas, Texas 75204
Phone - (214) 217-2200
Fax - (214) 217-2201

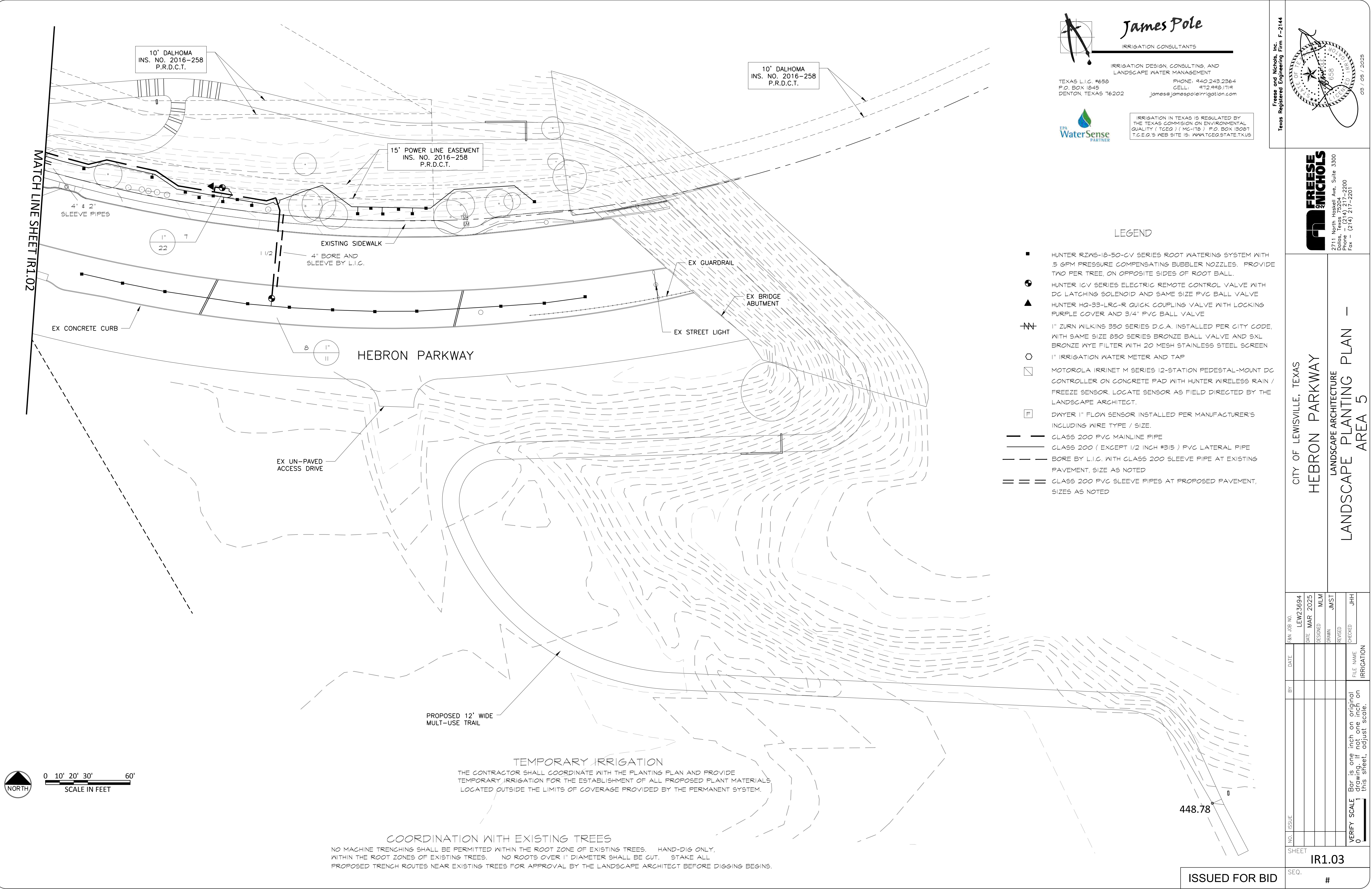
CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
LANDSCAPE IRRIGATION PLAN
AREAS 3 & 4

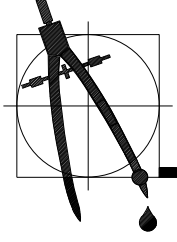
SEQ.	#			
SHEET	IR1.02			
NO.	ISSUE	BY	DATE	PAN JOB NO.
				LEW23694
			DATE	MAR 2025
			DESIGNED	JP
			DRAWN	JP
			REVISED	JP
VERIFY SCALE	Bar is one inch on original drawing if not one inch on paper.		FILE NAME	CHECKED
0	1		IRRIGATION	JP

ISSUED FOR BID

#

ACAD Ref: 23.1s (LMS Tech)
Filename: C:\Users\A\Jones Pole Irri. Dropbox\Irrigation\FreeseandNichols\HebronParkway\022825\Hebron Parkway CAD Files\IRRIGATION.dwg
Last Saved: 3/5/2025 4:15 PM Saved By: A





James Pole

IRRIGATION CONSULTANTS

IRRIGATION DESIGN, CONSULTING, AND
LANDSCAPE WATER MANAGEMENT

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

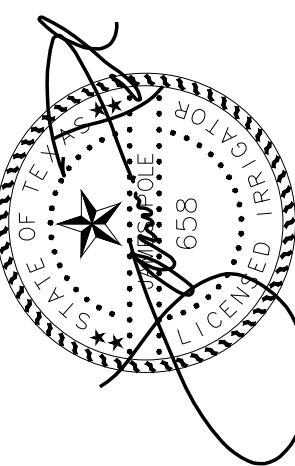
PHONE: 940.243.2364
CELL: 972.998.1719
james@jamespoleirrigation.com



EPA WaterSense PARTNER

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

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



03 / 05 / 2025



FREESE & NICHOLS
2711 North Hagel Ave, Suite 3300
Frisco, Texas 75034
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
LANDSCAPE PLANTING PLAN -
AREA 5

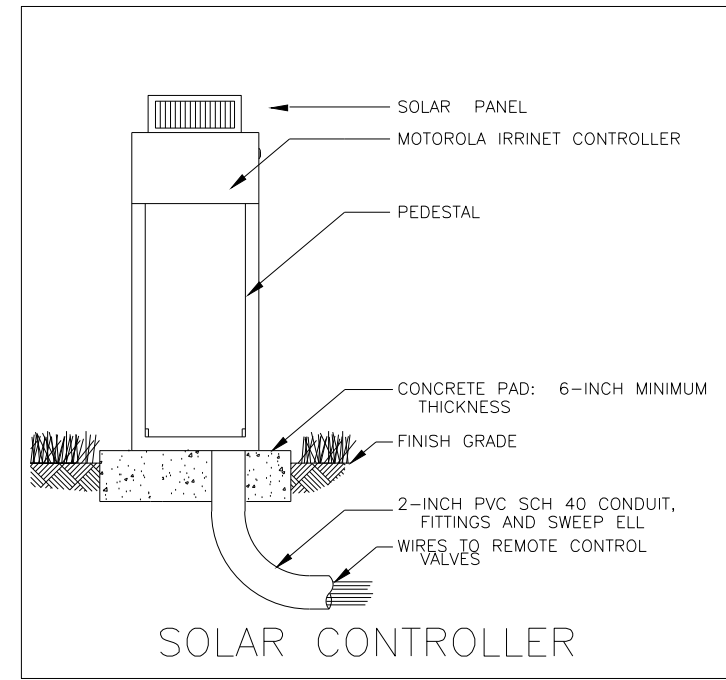
PERM. JOB NO.	LEW23694
DATE	MAR 2025
DESIGNED	MLM
DRAWN	JWST
REVISED	
CHECKED	JHH
FILE NAME	IRRIGATION

VERIFY SCALE
0 1
Bar is one inch on original
drawing; if not one inch on
this sheet, adjust scale.

ISSUED FOR BID

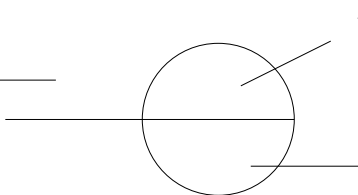
SEQ. #

Plot Date: 3/5/2025 4:40 PM Plot By: ##### Filename: C:\Users\A\Jones Pole Irri. Dropbox\Irrigation\FreeseandNichols\HebronParkway\022825\Hebron Parkway CAD Files\IRRIGATION.dwg



CONTROLLER STATION ——— VALVE SIZE

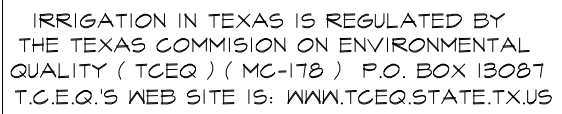
————— FLOW IN G.P.M.



— VALVE SIZE

— FLOW IN G.P.M.

- 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 1" 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 WYE 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 SWIVEL HOSE ELL.
11. 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 DRYER FLOW SENSOR EQUIPMENT.



CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY
LANDSCAPE ARCHITECTURE
LANDSCAPE IRRIGATION

SHEET		IR2.01		SEQ.		#	
NO.	ISSUE	BY	DATE	F&N JOB NO.			
				LEW23694			
				DATE	MAR 2025		
				DESIGNED	JP		
				DRAWN	JP		
				REVISED			
VERIFY SCALE		Bar is one inch on original		CHECKED			
0		1		FILE NAME			
		this sheet, adjust scale.		IRRIGATION			

ALAU Ref: 24-2s (LMS Tech)
Filename: N:\ST\ST-LEW-GN-NOTE.dwg
Last Saved: 3/5/2025 11:27 AM
Saved By: pob

GENERAL

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.
3. 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.

B. 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 UTILITIES.

D. 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.
5. 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.
7. PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
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)

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

FOUNDATION

1. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING IBC 2021, TABLE 1806.2, PRESUMPTIVE NET ALLOWABLE BEARING AND SLIDING RESISTANCE FOR A CLAY SUBSTRATE.

A. VERTICAL BEARING PRESSURE: 1,500 PSF

B. LATERAL BEARING PRESSURE: 100 PSF / FT

C. SLIDING RESISTANCE, COHESION: 130 PSF
2. 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.

CONCRETE

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.
3. 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 ADJACENT CONCRETE.
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.
8. 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

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), BUT NOT LESS THAN THAT INDICATED BELOW.
2. 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.
4. 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.
5. 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.

I. 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

1. STEEL MATERIAL SHALL BE IN ACCORDANCE WITH THE FOLLOWING UNLESS NOTED OTHERWISE:

A. CHANNELS: ASTM A992

B. PLATES & ANGLES: ASTM A572, GRADE 50

C. HSS (ROUND OR RECTANGULAR): ASTM A500, GRADE C

D. 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.
3. 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 1½" CONCRETE AND REINFORCEMENT BEYOND LIMITS OF THE DEMOLITION SHALL BE REMOVED. THE 1½" 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.

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



2711 North Haskell Ave, Suite 3300
Dallas, Texas 75205
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY

STRUCTURAL

GENERAL NOTES

NO.	ISSUE	BY	DATE	F&N JOB NO.	LEW23694							
					DATE	APR 2025	DESIGNED	PAB				
					DRAWN	AD	CHECKED	BBW				
								REVIEWED				
0								VERIFY SCALE				
				Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.								
				1								
				VERIFY SCALE								
				0								

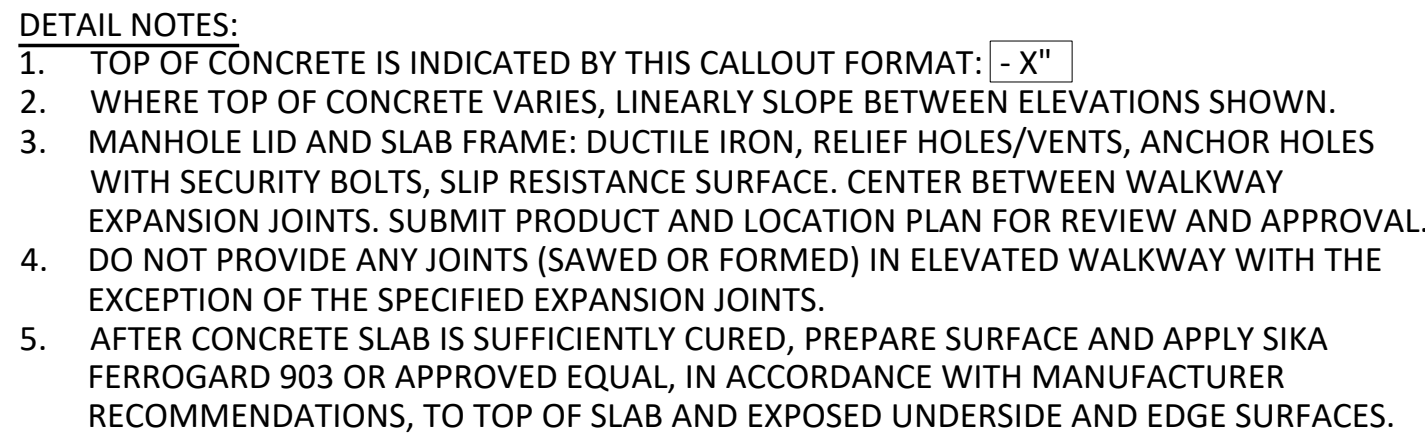
SHEET

S0.01

SEQ.

41 OF 46

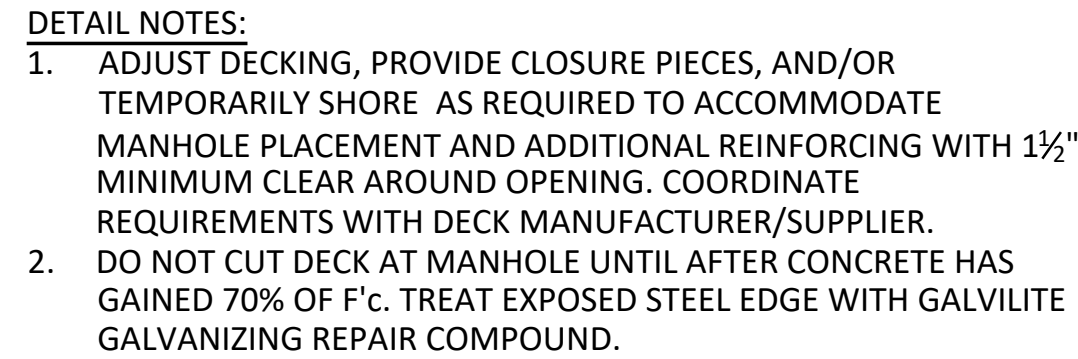
ISSUED FOR BID



1

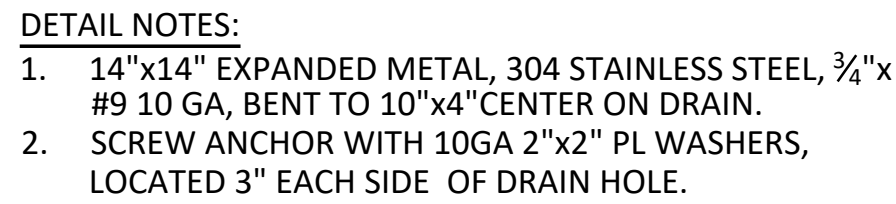
ELEVATED WALKWAY
TYPICAL PARTIAL PLAN

1/2"=1'-0"

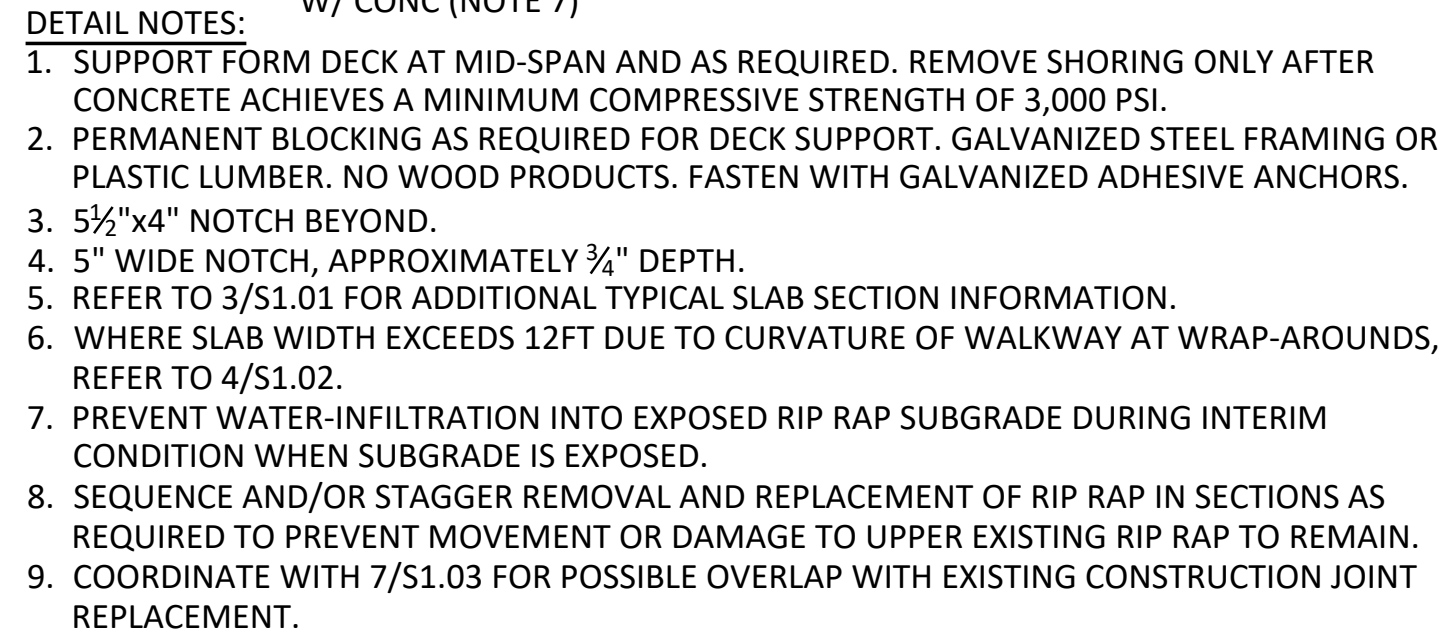


**ELEVATED WALKWAY
TYPICAL SLAB SECTION**

1 1/2"=1'-0"

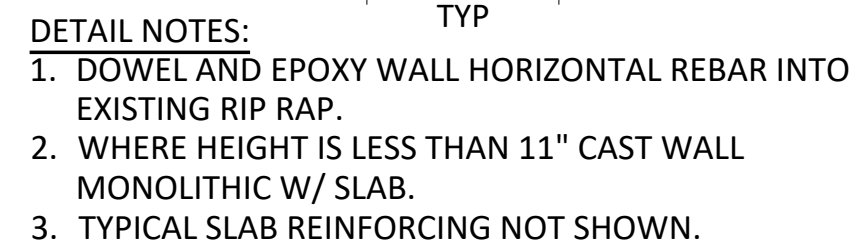


4 VENT & DRAIN HOLE
1 1/2"=1'-0"



**ELEVATED WALKWAY
TYPICAL SECTION**

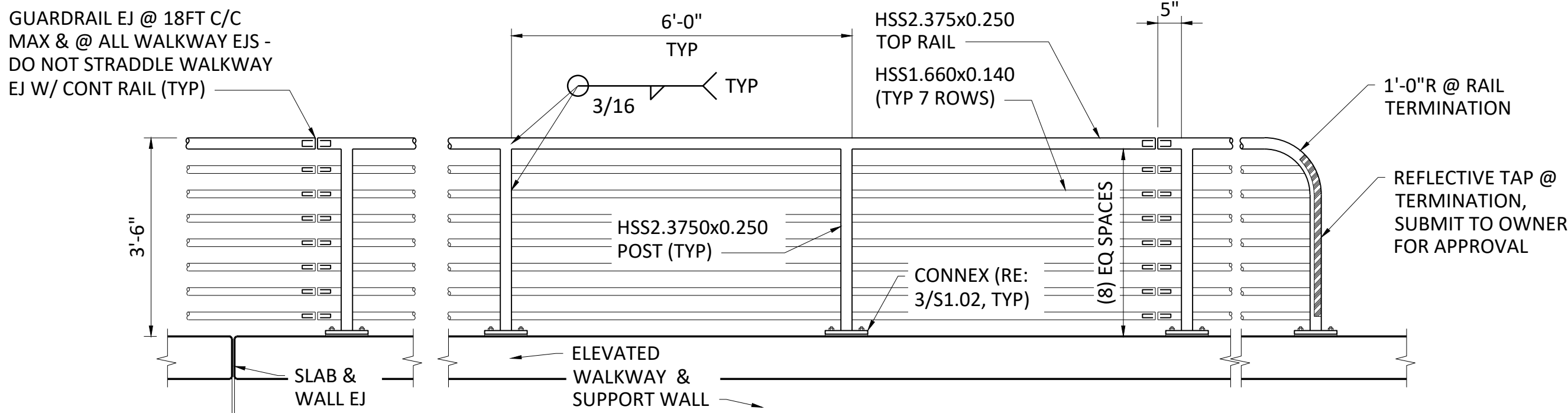
3/4"=1'-0"



5 ELEVATED WALKWAY
SLAB & WALL EJ
1 1/2"=1'-0"

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

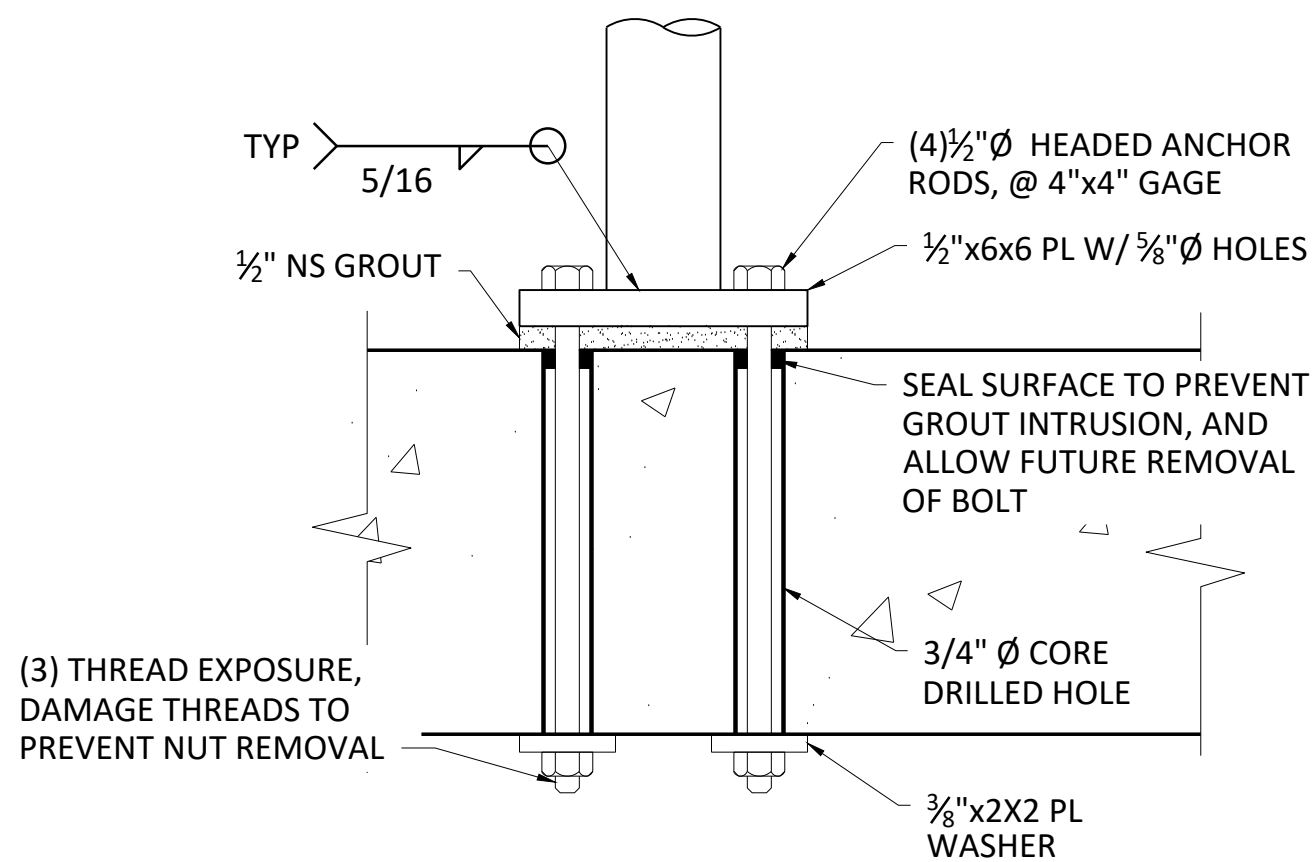
ALAU Rel: 24.2s (LMS Tech)
Filename: N:\ST\ST-LEW-DT-MISC02.dwg
Last Saved: 4/19/2025 11:37 AM Saved By: pob



- DETAIL NOTES:
- GUARDRAIL POSTS SHALL BE VERTICAL. RAILS SHALL BE PARALLEL TO WALKWAY SURFACE.
 - GUARDRAIL POST TO TOP RAIL CONNECTIONS SHALL HAVE A NOMMA #1 FINISH. ALL OTHER WELDS SHALL HAVE A NOMMA #3 FINISH.
 - GUARDRAIL EJ: 1/2" 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 3/16".

ELEVATED WALKWAY TYPICAL ELEVATION

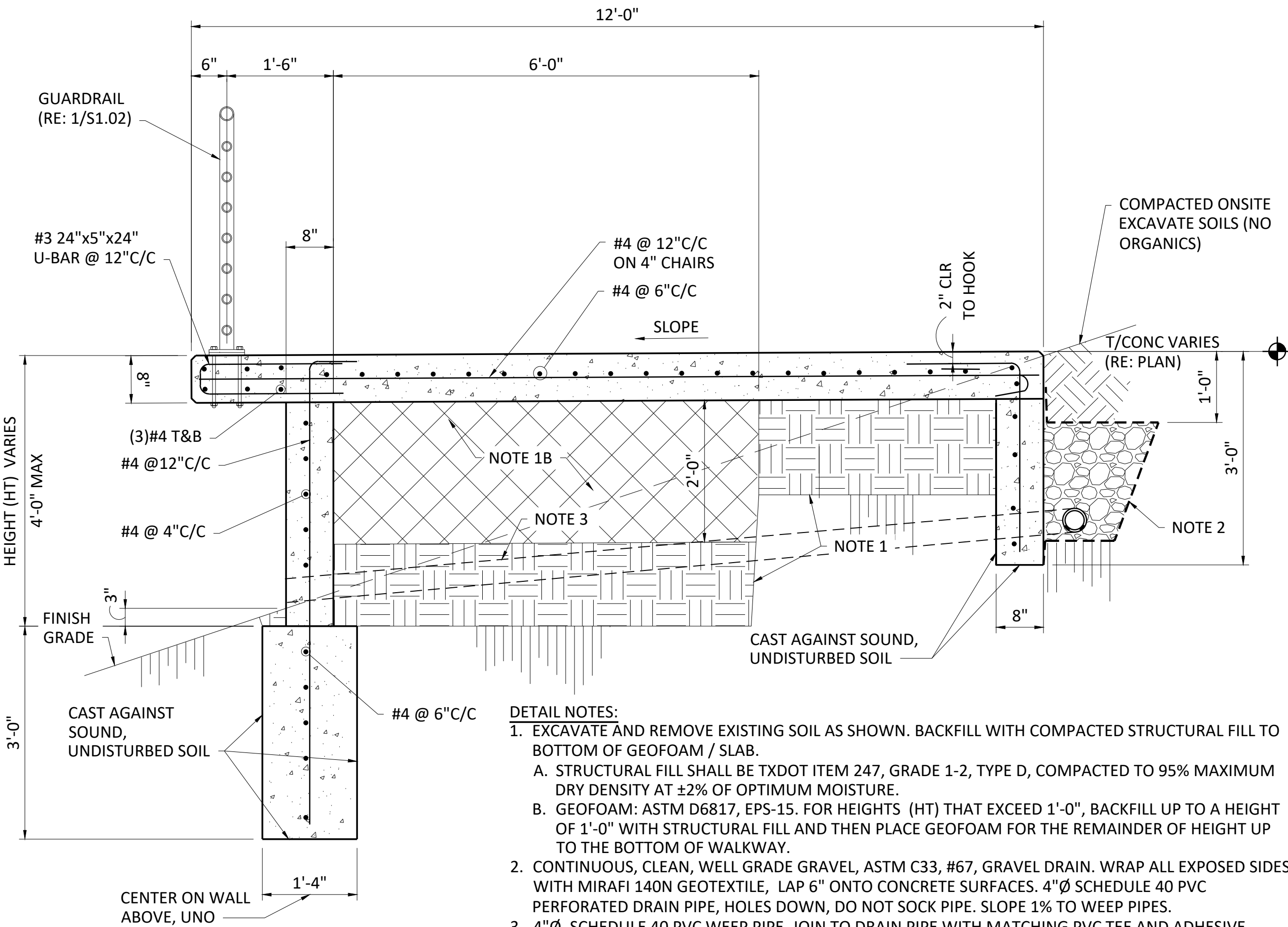
1/2"=1'-0"



- DETAIL NOTES:
- LOCATE REINFORCING AROUND PROPOSED CORED HOLES FOR ANCHOR RODS. PROVIDE 1 1/4" CLEAR BETWEEN EDGE OF CORED HOLE AND REINFORCING BARS ON ALL SIDES.
 - AT CONTRACTOR'S OPTION PROVIDE 1" Ø PVC SLEEVE IN LIEU OF CORE DRILLED HOLES SHOWN.

GUARDRAIL POST BASE

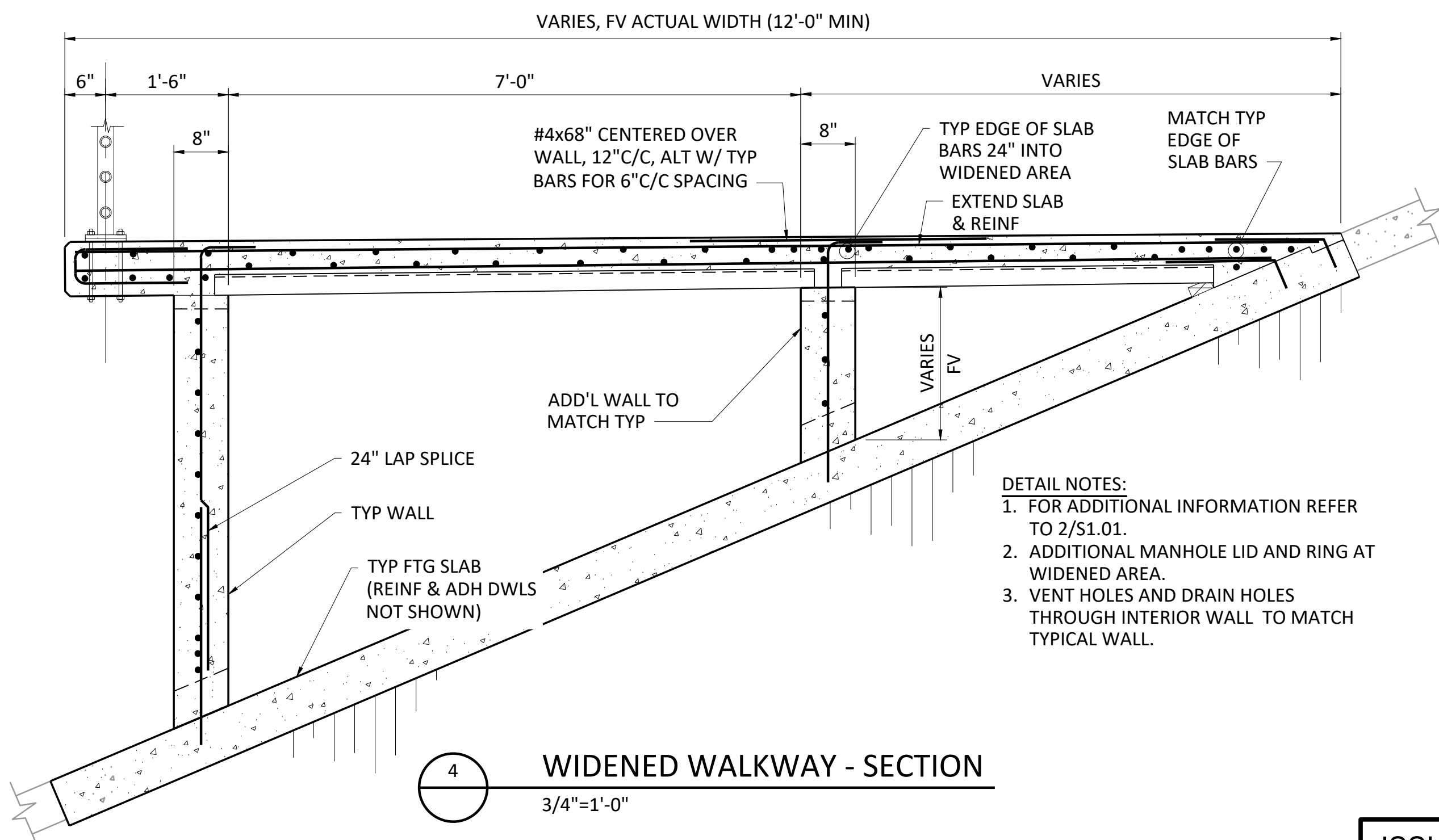
3"=1'-0"



- DETAIL NOTES:
- EXCAVATE AND REMOVE EXISTING SOIL AS SHOWN. BACKFILL WITH COMPACTED STRUCTURAL FILL TO BOTTOM OF GEOFOAM / SLAB.
 - STRUCTURAL FILL SHALL BE TXDOT ITEM 247, GRADE 1-2, TYPE D, COMPACTED TO 95% MAXIMUM DRY DENSITY AT ±2% OF OPTIMUM MOISTURE.
 - GEOFOAM: ASTM D6817, EPS-15. FOR HEIGHTS (HT) THAT EXCEED 1'-0", BACKFILL UP TO A HEIGHT OF 1'-0" WITH STRUCTURAL FILL AND THEN PLACE GEOFOAM FOR THE REMAINDER OF HEIGHT UP TO THE BOTTOM OF WALKWAY.
 - CONTINUOUS, CLEAN, WELL GRADE GRAVEL, ASTM C33, #67, GRAVEL DRAIN. WRAP ALL EXPOSED SIDES WITH MIRAFI 140N GEOTEXTILE, LAP 6" ONTO CONCRETE SURFACES. 4" Ø SCHEDULE 40 PVC PERFORATED DRAIN PIPE, HOLES DOWN, DO NOT SOCK PIPE. SLOPE 1% TO WEEP PIPES.
 - 4" Ø, SCHEDULE 40 PVC WEEP PIPE, JOIN TO DRAIN PIPE WITH MATCHING PVC TEE AND ADHESIVE. SPACE WEEPS AT 10FT C/C MAXIMUM, BUT NOT LESS THAN TWO PER WALKWAY LENGTH.
 - BRACE WALL UNTIL CONCRETE WALKWAY HAS CURED FOR 7-DAYS.

ON-GROUND ELEVATED WALKWAY - NOT AT EXISTING RIP RAP

3/4"=1'-0"



- DETAIL NOTES:
- FOR ADDITIONAL INFORMATION REFER TO 2/S1.01.
 - ADDITIONAL MANHOLE LID AND RING AT WIDENED AREA.
 - VENT HOLES AND DRAIN HOLES THROUGH INTERIOR WALL TO MATCH TYPICAL WALL.

WIDENED WALKWAY - SECTION

3/4"=1'-0"

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



FREESE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75204
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY

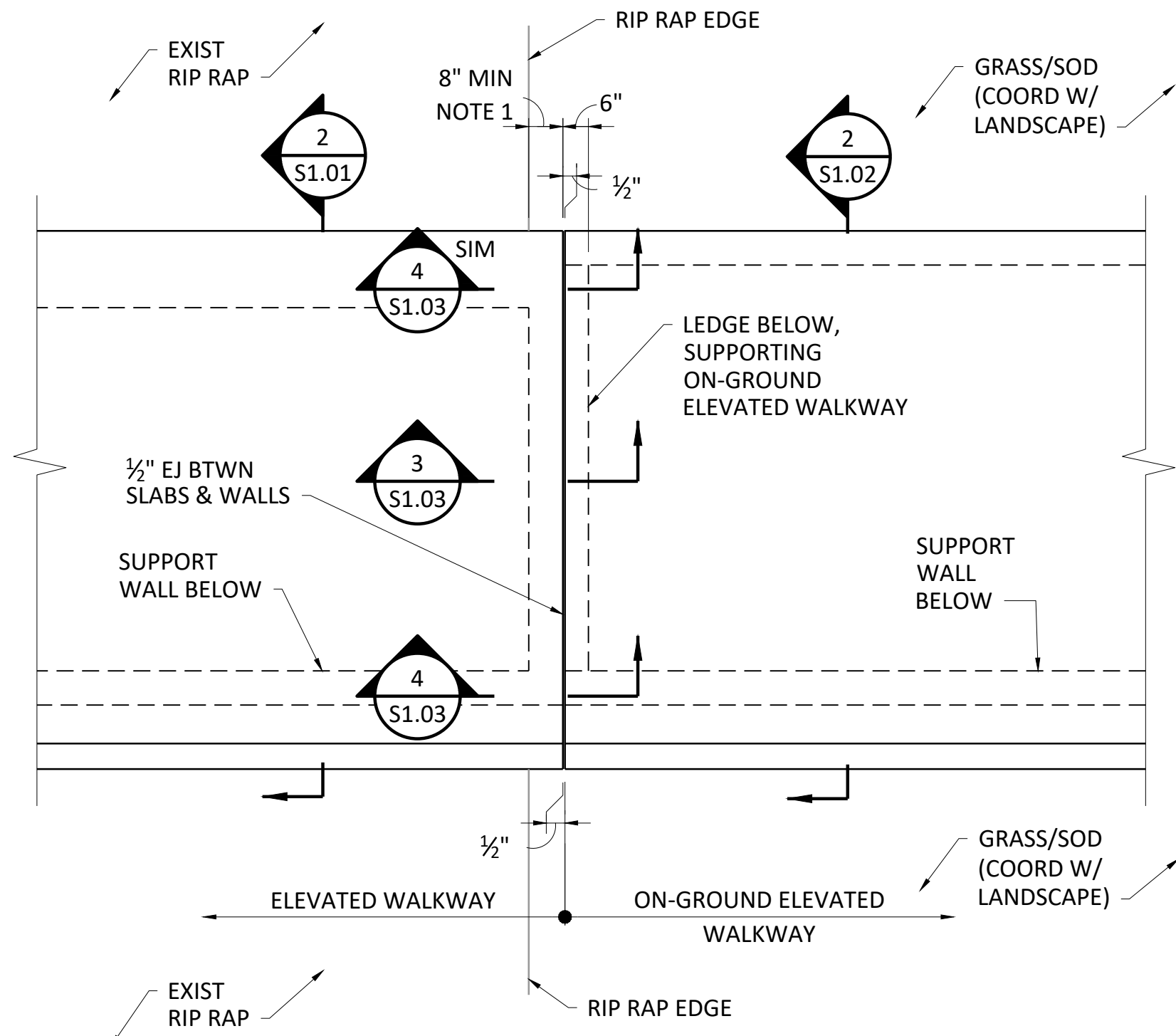
STRUCTURAL

DETAILS II

FILE NAME	ST-LEW-DT-MISC02
NO.	ISSUE
BY	DATE
DESIGNED	DATE
DRAWN	DATE
REVIEWED	DATE
CHECKED	DATE
BBW	DATE

SHEET
S1.02
ISSUED FOR BID
43 OF 46

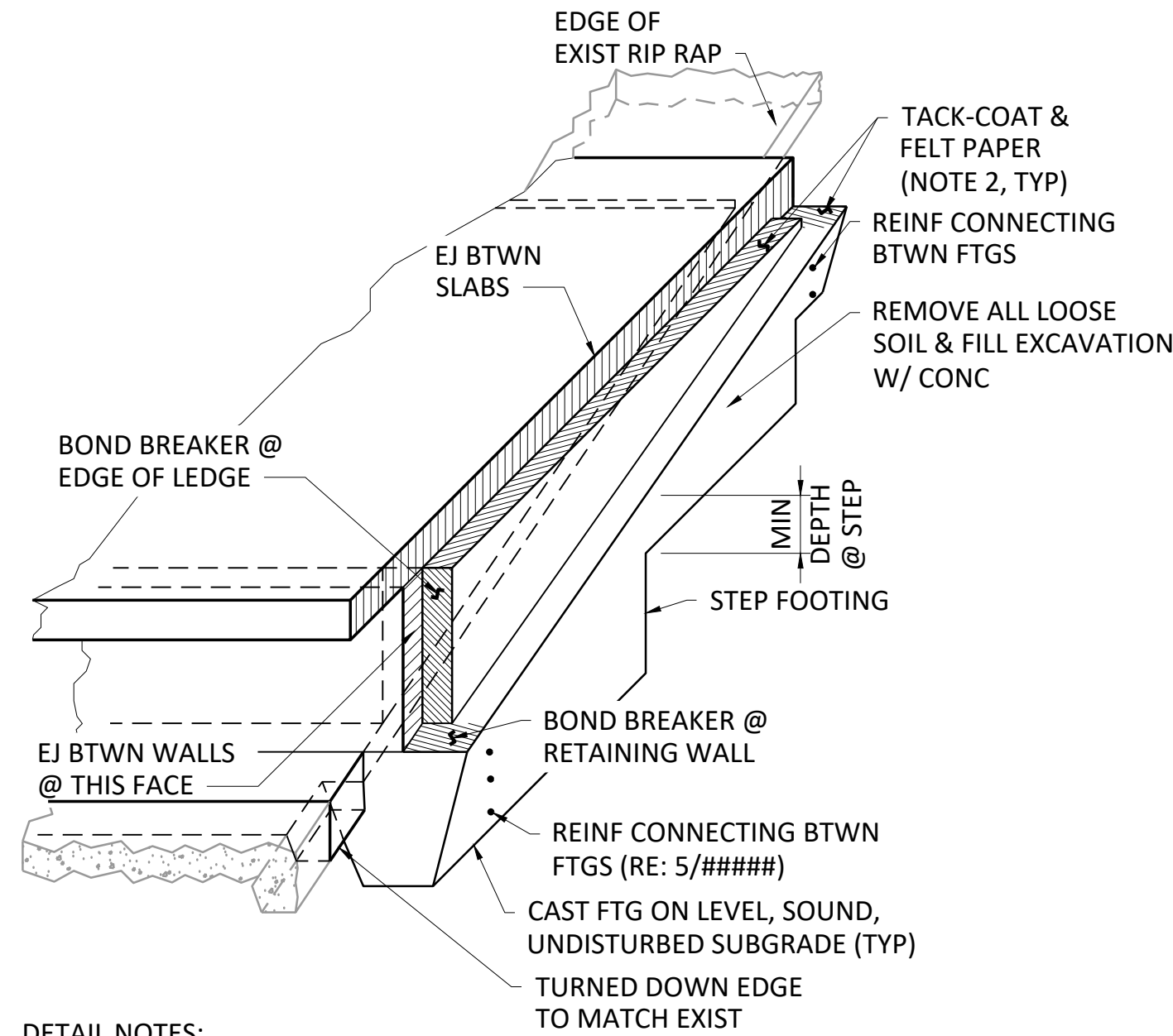
ALAU Ref: 24.2s (LMS Tech)
Filename: N:\ST\ST-LEW-DT-MISC03.dwg
Last Saved: 3/6/2025 12:20 PM
Saved By: pob



- DETAIL NOTES:
1. EXPANSION JOINT IS PERPENDICULAR TO TRAIL. RIP RAP EDGE MAY NOT BE. INCREASE DIMENSION AS REQUIRED. FIELD VERIFY.

ELEVATED TO ON-GROUND ELEVATED WALKWAY TRANSITION - PARTIAL PLAN

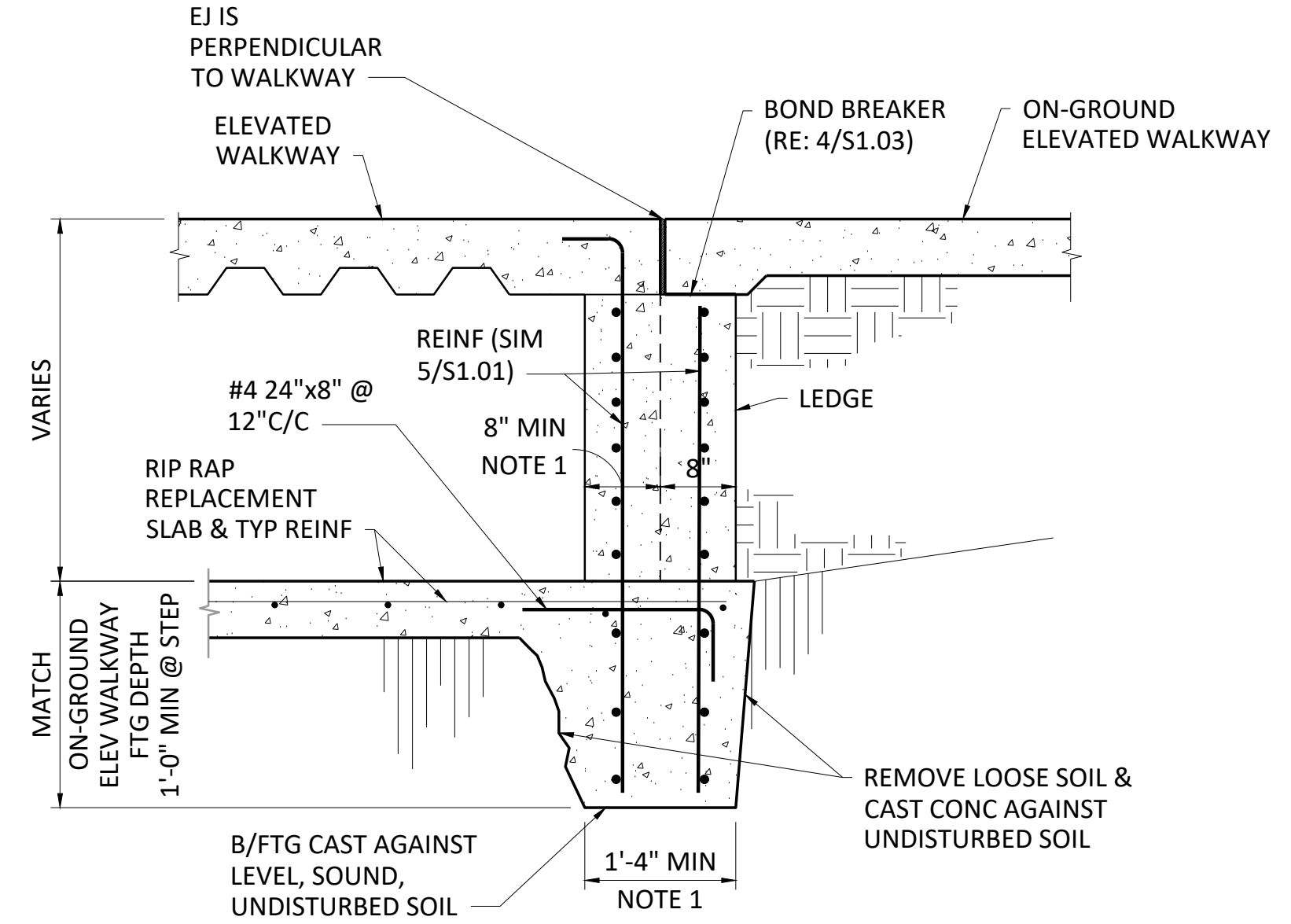
3/8"=1'-0"



- DETAIL NOTES:
1. ONLY ELEVATED WALKWAY ELEMENTS SHOWN. ON-GROUND ELEVATED WALKWAY NOT SHOWN.
 2. LIGHTLY COAT CONCRETE SURFACES INDICATED WITH WATER BASED ASPHALT EMULSION SEALER AND DAMPPROOFER BY HENRY OR RUSTOLEUM - TACK COAT. PRESS 15# ROOFING FELT INTO TACK-COAT.

ISOMETRIC OF WALKWAY TRANSITION

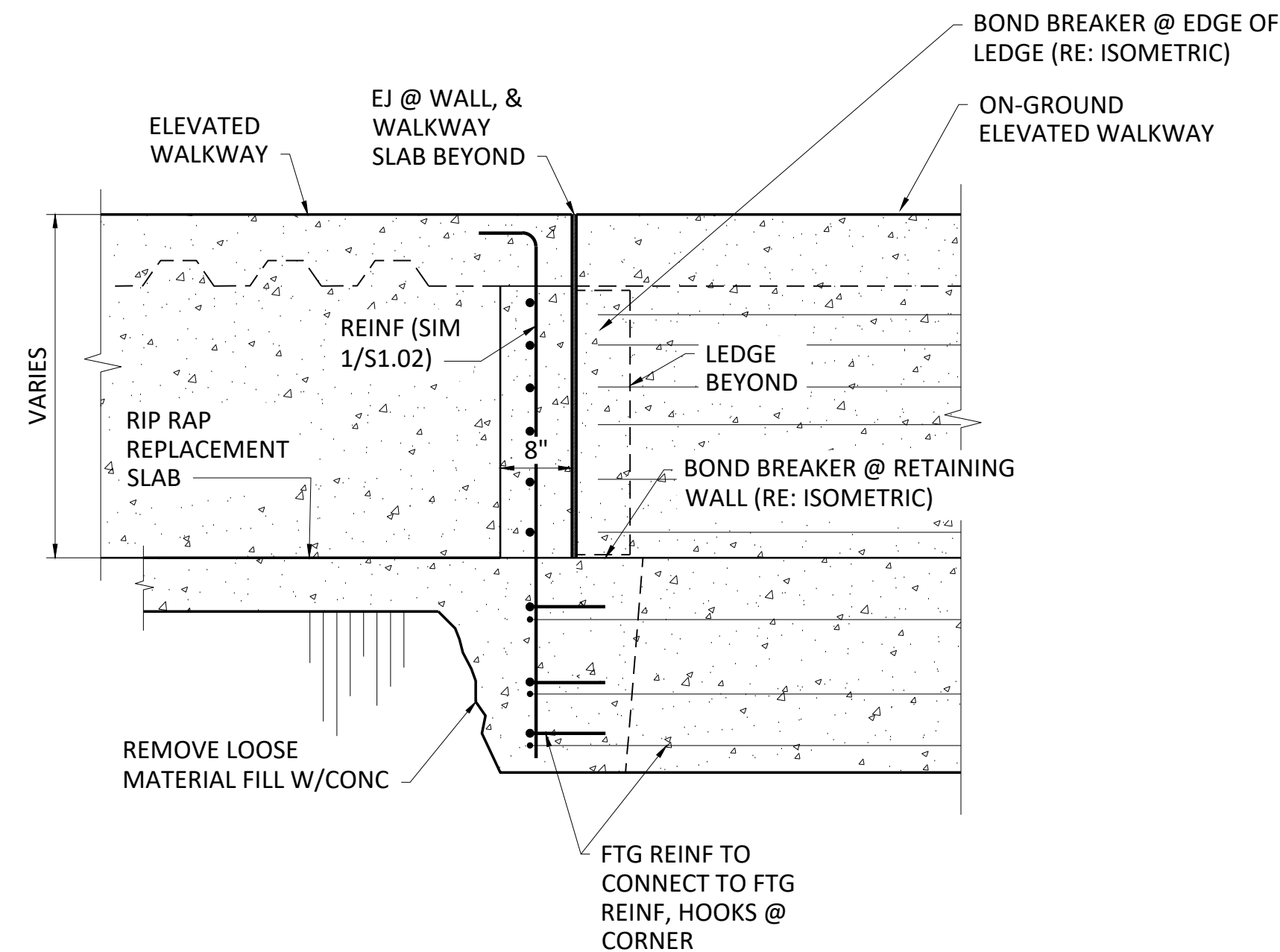
NOT TO SCALE



- DETAIL NOTES:
1. INCREASE AS REQUIRED WHEN RIP RAP EDGE IS NOT PARALLEL TO EXPANSION JOINT.

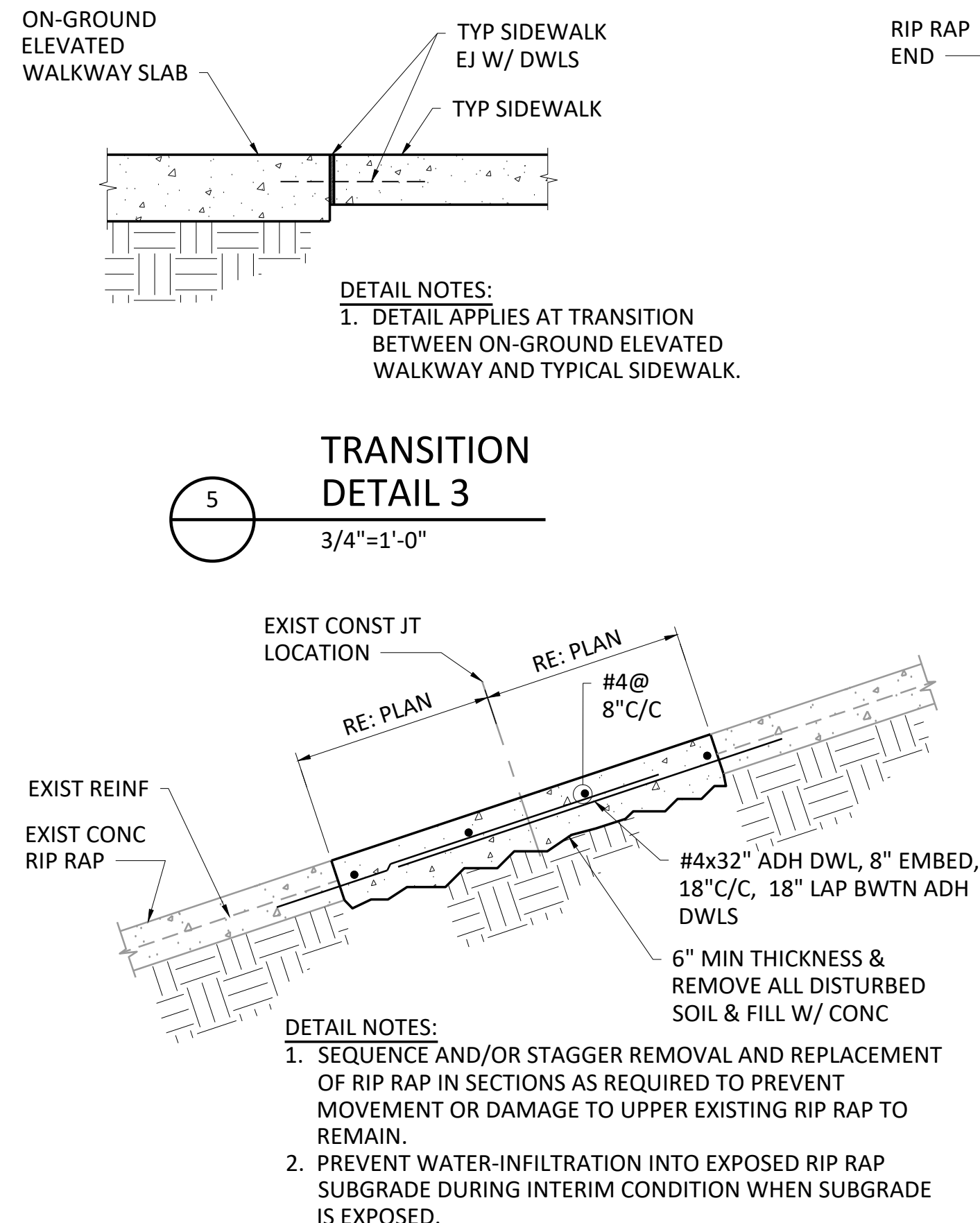
TRANSITION DETAIL 1

3/4"=1'-0"



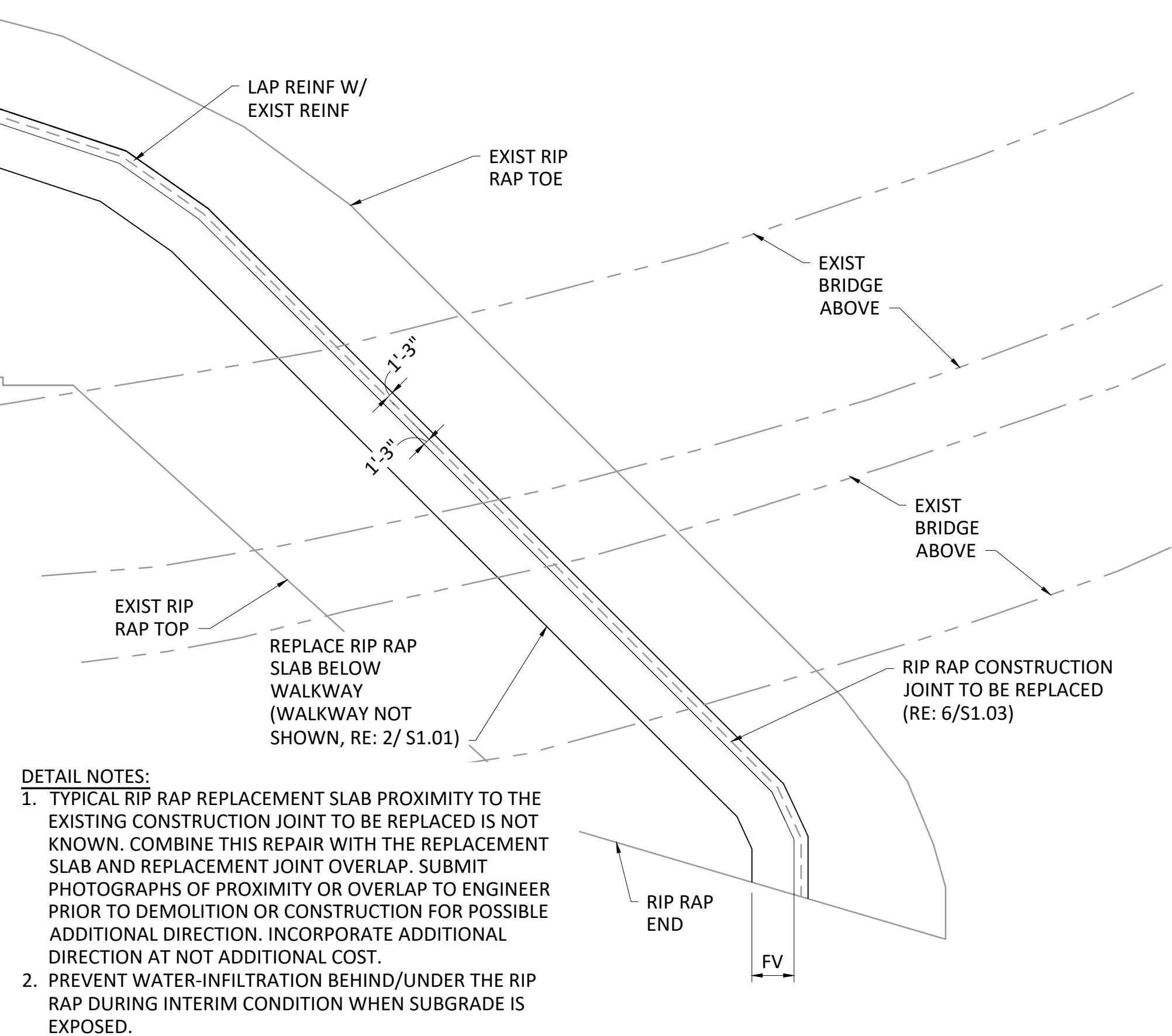
TRANSITION DETAIL 2

3/4"=1'-0"



CONCRETE RIP RAP CONSTRUCTION JOINT REPAIR

NOT TO SCALE



- DETAIL NOTES:
1. TYPICAL RIP RAP REPLACEMENT SLAB PROXIMITY TO THE EXISTING CONSTRUCTION JOINT TO BE REPLACED IS NOT KNOWN. COMBINE THIS REPAIR WITH THE REPLACEMENT SLAB AND REPLACEMENT JOINT OVERLAP. SUBMIT PHOTOGRAPHS OF PROXIMITY OR OVERLAP TO ENGINEER PRIOR TO DEMOLITION OR CONSTRUCTION FOR POSSIBLE ADDITIONAL DIRECTION. INCORPORATE ADDITIONAL DIRECTION AT NOT ADDITIONAL COST.
 2. PREVENT WATER-INFILTRATION BEHIND/UNDER THE RIP RAP DURING INTERIM CONDITION WHEN SUBGRADE IS EXPOSED.

CONCRETE RIP RAP REPAIR PLAN

NOT TO SCALE

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



FREEZE & NICHOLS
2711 North Haskell Ave, Suite 3300
Dallas, Texas 75201
Phone - (214) 217-2200
Fax - (214) 217-2201

CITY OF LEWISVILLE, TEXAS
HEBRON PARKWAY

STRUCTURAL

DETAILS III

FILE NO.	LEW23694
DATE	APR 2025
DESIGNED	PAB
DRAWN	AD
REVIEWED	
CHECKED	BBW
FILE NAME	ST-LEW-DT-MISC03
NO.	ISSUE
BY	DATE
VERIFY	SCALE
0	1
1	0

SHEET
S1.03

ISSUED FOR BID

SEQ.
44 OF 46