

EWALD ROAD IMPROVEMENTS NEW BRAUNFELS, TEXAS CIVIL SITE CONSTRUCTION PLANS

KB HOME
4800 FREDERICKSBURG RD. SUITE 100
SAN ANTONIO, TEXAS 78229



PROJECT LOCATION MAP SCALE: N.T.S.

PROJECT BENCHMARK

SITE TBM #1	SITE TBM #3	SITE TBM #51
SET MAG HMT IN ASPHALT N: 13785571.9765' E: 2276108.1234' ELEV: 595.73'	SET MAG HMT IN ASPHALT N: 13784345.7043' E: 2274875.2222' ELEV: 581.81'	SET MAG HMT TBM IN CDS N: 13784254.5848' E: 2273471.1630' ELEV: 597.69'
SITE TBM #2	SITE TBM #50	
SET MAG HMT IN CONC N: 13782871.7074' E: 2274271.3094' ELEV: 564.88'	SET MAG HMT TBM IN CDS N: 13783464.4646' E: 2273471.1630' ELEV: 597.69'	

LEGAL DESCRIPTION

BEING 48.695 ACRES OF LAND LOCATED IN THE A.M. ESNAURIZAR SURVEY, ABSTRACT NO. 20, GUADALUPE COUNTY, TEXAS, BEING THE REMAINDER OF A CALLED 50.87 ACRE TRACT OF LAND RECORDED IN VOLUME 184, PAGE 552, DEED RECORDS, GUADALUPE COUNTY, TEXAS, LESS AND EXCEPT A CALLED 0.151 OF AN ACRE TRACT OF LAND RECORDED IN VOLUME 1285, PAGE 213, OFFICIAL PUBLIC RECORDS, GUADALUPE COUNTY, TEXAS.

REQUIRED PERMITS	NUMBER
1. GUADALUPE COUNTY	#
2. TXDOT	GUA25-058

JANUARY 2026



ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

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PREPARED BY:



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GENERAL NOTES:

- IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE-YEAR OF CITY APPROVAL FOR CONSTRUCTION INSPECTION, THAT APPROVAL IS NO LONGER VALID. THE MOST CURRENT EDITIONS OF THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS AND THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE FOLLOWED FOR ALL CONSTRUCTION EXCEPT AS AMENDED BY THE GUADALUPE COUNTY STANDARD DETAILS.
- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, GUADALUPE COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER IN RECORD.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT GUADALUPE COUNTY TO SET A PRE-CONSTRUCTION MEETING. A 48-HOUR ADVANCED NOTIFICATION IS REQUIRED FOR ALL INSPECTION AND MEETING REQUESTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
- NO PORTION OF THE SUBDIVISION IS LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREA (100 YR. FLOOD), AS DEFINED BY THE GUADALUPE COUNTY, TEXAS, FIRM PANEL NUMBER 48187C0120G EFFECTIVE DATE MARCH 24, 2024, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- THIS PROJECT IS NOT LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE, TRANSITION OR CONTRIBUTING ZONE.
- GAS UTILITIES ARE NOT INCLUDED IN THE CIVIL CONSTRUCTION PLANS. FINAL GAS UTILITY DESIGN SHALL BE APPROVED BY THE CITY FOR ANY WORK WITHIN PUBLIC RIGHT-OF-WAY, IF APPLICABLE.

NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH OF THE INDIVIDUAL UTILITIES FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

ANY QUANTITIES PROVIDED BY HMT OR OWNER ON THE PLANS, OPINION OF PROBABLE COST, BID SUMMARIES, ETC. ARE FOR CURSORY USE ONLY. CONTRACTOR IS RESPONSIBLE FOR BIDDING SIGNED AND SEALED CONSTRUCTION PLANS. IF A DISCREPANCY EXISTS, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.

CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND ELEVATION OF ALL DOWNSTREAM CONNECTION POINTS PRIOR TO CONSTRUCTION. IF A DISCREPANCY EXISTS, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.

CONTRACTOR SHALL INSTALL ALL GRAVITY SEWER, GRAVITY STORM SEWER, CURBS AND PAVEMENT FROM THE MOST DOWNSTREAM POINT OF CONNECTION. IF IMPROVEMENTS ARE CONSTRUCTED FROM UPSTREAM TO DOWNSTREAM, THEN THE CONTRACTOR WILL TAKE FULL RISK AND LIABILITY OF ANY ISSUES THAT MIGHT ARISE FROM FLOWLINE ELEVATION DISCREPANCIES, UTILITY CONFLICTS, ETC.

CONTRACTOR IS RESPONSIBLE FOR THE STOCKPILING OF ANY EXCESS DIRT. ALL BIDS FROM CONTRACTOR SHOULD ACCOUNT FOR THE REMOVAL AND PLACEMENT OF ALL EARTHWORK TO INCLUDE STOCKPILING, EXPORT, IMPORT, ETC. IF A LOCATION OF PLACEMENT OF EXCESS DIRT IS NOT SHOWN ON THE PLANS, THEN CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE THE MOST SUITABLE STOCKPILE LOCATION.

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EWALD ROADWAY IMPROVEMENTS
CIVIL SITE CONSTRUCTION PLANS

HMT # 011.041

GUADALUPE COUNTY GENERAL NOTES

- 1. A 4-FEET WIDE SIDEWALK NEEDS 5-FEET X5-FEET PASSING SPACES (LANDINGS) EVERY 200' PER TEXAS DEPARTMENT LICENSING & REGULATION 403.5.3.
2. STORAGE OR TEMPORARY STAGING OF MATERIAL, SPOILS, FILL, OR EQUIPMENT IS PROHIBITED ON COUNTY RIGHT OF WAY.
3. THE RESTORATION OF WORK EXECUTED IN A DRAINAGE PATHWAY SHALL INCLUDE THE EFFORT TO RESTORE BOTH THE PLAN AND PROFILE OF THE DRAINAGE PATHWAY IMPACT BY THE WORK. REVEGETATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE TXDOT REGIONAL SPECIFICATIONS AND SHALL BE MAINTAINED TO ESTABLISH 100% VEGETATIVE COVER.
4. WORK EXECUTED IN A DRAINAGE PATHWAY SHALL BE BACKFILLED AND GRADED TOWARD THE NEAREST LOW WATER CROSSING.
5. ALL EXCAVATION WORK WILL BE CONDUCTED IN ACCORDANCE WITH OSHA 29 CFR 1926 AND OTHER APPLICABLE REGULATIONS AND/OR CODES.
6. NO EXCAVATION SHALL REMAIN OPEN FOR LONGER THAN 48 CONSECUTIVE HOURS OR WEEKENDS WHEN WORK IS NOT IN PROGRESS.
7. EXCAVATIONS SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT WORK PLAN AND SHALL INCLUDE THE MINIMUM FOLLOWING REQUIREMENTS:
a. COMPACTION TESTING EVERY LIFT AT A MAXIMUM 500-FEET INTERVAL SPACING.
b. CONTRACTOR SHALL OBTAIN SOIL COMPACTION PROPERTIES FROM A LICENSED CONSTRUCTION MATERIALS TESTING LABORATORY. COMPACTION PROPERTY VALUES SHALL BE VERIFIED EVERY 5,280-FEET OR WHEN VISIBLE PROPERTIES OF THE SOIL CHANGE.
c. THE REQUIREMENTS OF SUB-ITEMS A AND B MAY BE AVOIDED WITH THE PROVISION OF A 24-MONTH WARRANTY FOR A MEASURED SETTLEMENT EXCEEDING 2-INCHES.
8. ANY VAULT, MANHOLE OR OTHER APPURTENANCE LOCATED IN THE ROW SHALL BE IDENTIFIED AND STRUCTURALLY RATED FOR VEHICULAR TRAFFIC
9. ANY CHANGES OR MODIFICATIONS MADE TO DESIGN DOCUMENTS AND/OR DRAWINGS SHALL BE MADE APPARENT WITH MARKINGS (I.E. CLOUD) AND NUMBERED ON ANY REVISED DOCUMENT OR DRAWING (I.E. PERMITS/PLANS) AND TRACKED ON THE DRAWING IN THE TITLE BLOCK.
10. ACTIVE FILLING OF ANY WATER CARRYING EQUIPMENT IN THE COUNTY ROW IS PROHIBITED WITHOUT THE EXPRESSED PERMISSION OF THE ROAD AND BRIDGE ADMINISTRATOR. THIS ACTIVITY CAN POTENTIALLY REQUIRE AN ADDITIONAL PERMIT AND ADDITIONAL PROJECT EXECUTION REQUIREMENTS SUBJECT TO SITE SPECIFIC CONDITIONS. CONTRACTOR RESPONSIBLE FOR OBTAINING ANY METERS AND/OR PERMITS FROM OWNING UTILITY.
11. NO STEEL TRACKS OF ANY KIND ALLOWED, EVER
12. ANY WORK, EQUIPMENT, MATERIALS OR VEHICLES WITHIN 3' OF EOP REQUIRE FLAGGERS.
13. PERMIT HOLDER IS LIABLE FOR ANY DAMAGE MADE TO ROAD EDGE CAUSED BY EQUIPMENT OPERATION OR CONSTRUCTION OCCURRING NEAR EDGE OF ROAD.
14. WITH RESPECT TO WORK NOT COMPLETED (I.E. PIPE STUB-OUTS, END OF PIPE, BORING PITS, ETC.), ANY HAZARDS, EXCAVATIONS, PIPE STUB OUTS, ETC. SHALL BE CLEARLY MARKED AND PROTECTED TO PREVENT OR FURTHER THE SEVERITY OF ACCIDENTS OR DAMAGE TO PROPERTY IN THE RIGHT OF WAY.
15. MARKING POSTS, FENCES, BARRICADES, OR OTHER METHODS OF IDENTIFYING A HAZARD IN THE RIGHT OF WAY SHALL BE PROPERLY MAINTAINED TO PROMOTE VISUAL IDENTIFICATION AND INTEGRITY TO PERFORMED AS DESIGNED OR INTENDED AND PLACED IN ACCORDANCE WITH THE PROJECT TRAFFIC PLAN OR OTHER GOVERNING RULES AND REGULATIONS.
16. ROADWAY AND ROW WILL BE MAINTAINED IN A HIGH STATE OF POLICE AND FREE OF DIRT, MUD, MATERIAL, EQUIPMENT, AND/OR DEBRIS AT ALL TIMES THE WORK AREA ROADWAY OR ROW SHALL BE SWEEP/CLEANED AT THE END OF EACH WORK SHIFT.
17. ANY WORK NOT COMPLETED IS CONSIDERED A TEMPORARY STOPPAGE OF THE WORK AND SHALL BE CONCLUDED NOT LATER THAN 30-DAYS AFTER THE WORK STOPPAGE. IMPACTS REMAINING IN THE RIGHT OF WAY DUE TO A WORK STOPPAGE SHALL BE REMEDIED AND MADE NON-EXISTENT NOT LATER THAN 35-DAYS AFTER THE WORK STOPPAGE (I.E. EXCAVATIONS BACKFILLED, STUB OUTS CUT OFF NO LESS THAN 1-FOOT BELOW GROUND SURFACE, HAZARDS REMOVED, ETC.). FAILURE TO COMPLY WITH THE PRECEDING PROTOCOL, THAT RESULTS WITH DAMAGES OF ANY TYPE, PERSONAL INJURY, DAMAGE TO CONTRACTOR INSTALLED TEMPORARY MEASURES, OR COUNTY RESOURCES WORKING AND/OR MOWING IN THE RIGHT OF WAY SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
18. CONSTRUCTION PLANS IN A PDF FILE ARE REQUIRED FOR THE EXCAVATION PERMIT. THE DESIGN IN THE CONSTRUCTION PLANS MUST BE SOURCED FROM A DWG.
19. THIS PERMIT APPLICATION MUST BE FILLED OUT ELECTRONICALLY, TO INCLUDE SIGNATURES, PER THE GUADALUPE COUNTY CLERK'S OFFICE, EFFECTIVE OCTOBER 1, 2024.

CITY OF NEW BRAUNFELS GENERAL NOTES

ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL COMPLY WITH:
A. CURRENT CITY OF NEW BRAUNFELS CONSTRUCTION SPECIFICATIONS AND STANDARDS AS OF THE DATE OF THIS CONTRACT
B. THE MOST CURRENT EDITION OF TEXAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES".
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT TEXAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES," ALONG WITH CURRENT CITY OF NEW BRAUNFELS AND GUADALUPE COUNTY SPECIFICATIONS. ANY DISCREPANCIES BETWEEN SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES, FEES, AND TAXES AREA AND GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

ANY EXISTING OFF-SITE IMPROVEMENTS THAT ARE DAMAGED OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE OWNER OF THE EXISTING IMPROVEMENT AT THE CONTRACTOR'S EXPENSE. (NO SEPARATE PAY ITEM)

WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR CONSENT OF THE OWNER OR ENGINEER WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100YR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND SHALL BE LOCATED TO PROVIDE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT WHILE PROVIDING CONTINUOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL DEVICES DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. THE TERM "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY BOTH HORIZONTAL AND VERTICAL ALIGNMENT.

WHEN MATCHING EXISTING PAVEMENTS, CURBS, DRIVES, AND WALKS, THEY SHALL BE SAW CUT FULL DEPTH AND REMOVED TO ALLOW FOR PROPOSED CONSTRUCTION. IF ANY EXISTING JOINT IS ENCOUNTERED, PRECAUTION SHALL BE TAKEN DURING REMOVAL OF CONCRETE SO AS NOT TO DAMAGE EXISTING DOWELS. ALL EXISTING DOWELS SHALL BE EXPOSED AND CLEANED.

ITEM OF WORK DESIGNATED "BY OTHERS" SHALL NOT BE CONSIDERED PART OF THIS CONTRACT.

ALL "COMPACTED SUBGRADE" SHALL CONSIST OF NATIVE MATERIAL SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES AND COMPACTED TO 95% DENSITY ACCORDING TO DENSITY TEST METHOD TEX-115E OR ACCORDING TO ASTM D-698 AND TESTED BY ASTM D-2922.

ALL "FLEXIBLE BASE" SHALL BE TYPE "A", GRADE 4, ACCORDING TO TXDOT ITEM 247, COMPACTED TO 95% MODIFIED DENSITY AT A MOISTURE CONTENT BETWEEN -2 AND +3 OF OPTIMUM PERCENT MOISTURE ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR) AND TESTED BY ASTM D-2922.

ASPHALT PAVEMENT SHALL BE THE TYPE SPECIFIED ON THE PLANS AND ACCORDING TO TXDOT ITEM 340 "HOT MIX ASPHALT CONCRETE PAVEMENT".

PRIME COAT USING MC-30 AT A RATE OF 0.2 GALLONS PER SQUARE YARD SHALL BE PLACED OVER PREPARED BASE AT LEAST ONE DAY PRIOR TO LAYING ASPHALTIC CONCRETE PAVEMENT. ANY NECESSARY TACK COAT SHALL BE MC-30 AT 0.05 GALLONS PER SQUARE YARD. IT IS REQUIRED THAT BOTH THE PRIME COAT AND THE TACK COAT BE APPLIED AT THE TEMPERATURE SPECIFIED UNDER TXDOT ITEM 300.3.

CONCRETE SHALL BE CLASS "A" ACCORDING TO TXDOT ITEM 421 UNLESS OTHERWISE ON PLANS.

REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO TXDOT ITEM 440. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS EXCEPT WHEN REFERRING TO CLEARANCE.

ALL SAWED JOINTS SHALL BE SAWED WITHIN 24 HOURS OF POURING.

ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.

ORDINARY COMPACTION CONTROL IS REQUIRED ON THIS PROJECT.

ALL ROLLING FOR COMPACTION OF ASPHALTIC CONCRETE PAVEMENT SHALL BE COMPLETED BEFORE THE MIXTURE TEMPERATURE DROPS BELOW 175 DEG. (F).

ALL FILL MATERIAL SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO THE NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER AND HIS EMPLOYEES, PARTNERS, OFFICES, DIRECTORS, OR CONSULTANTS, HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, ENGINEER'S DIRECTORS, OFFICERS, EMPLOYEES, OR CONSULTANTS.

ALL CMP (CORRUGATED METAL PIPE) USED ON THIS PROJECT SHALL HAVE A MANNING'S "N" VALUE OF 0.024, UNLESS OTHERWISE SHOWN ON PLANS.

CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTING PER CURRENT CITY OF NEW BRAUNFELS REQUIREMENTS. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. ENGINEER AND OWNER RESERVE THE RIGHT TO HAVE THE CONTRACTOR REMOVE AND REPLACE ANY MATERIAL THAT WAS NOT TESTED OR FAILED TESTING. ALL COST ASSOCIATED WITH THE REMOVAL, REPLACEMENT AND TESTING SHALL BE PAID BY THE CONTRACTOR.

ALL PVC SLEEVES SHALL BE INSTALLED 3 FEET BELOW FINISHED GRADE AND ENDS SHALL BE MARKED SO THAT LOCATIONS OF SLEEVES CAN BE EASILY IDENTIFIED.

PRE-CONSTRUCTION CONFERENCE IS REQUIRED. ENGINEER WILL ARRANGE SUCH CONFERENCE IN COORDINATION WITH CITY OF NEW BRAUNFELS STREET INSPECTOR & NEW BRAUNFELS UTILITIES INSPECTOR. NO CONSTRUCTION MAY BEGIN PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY INSTALLERS AND SHARED TRENCHING SHALL BE UTILIZED. CUTTING THE STREETS AFTER COMPLETION BY DRY UTILITIES SHALL NOT BE ACCEPTABLE.

AS PER PLATTING ORDINANCE SECTION 118-38M: WHEN ALL IMPROVEMENTS ARE FOUND TO BE CONSTRUCTED AND COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND WITH THE CITY'S STANDARDS, AND UPON RECEIPT OF ONE SET OF "RECORD DRAWINGS" PLANS, AND A DIGITAL COPY OF ALL PLANS (AUTOCAD 2000 MINIMUM) THE CITY ENGINEER SHALL ACCEPT SUCH IMPROVEMENTS FOR THE CITY OF NEW BRAUNFELS, SUBJECT TO THE GUARANTY OF MATERIAL AND WORKMANSHIP PROVISIONS IN THIS SECTION.

EROSION / SEDIMENTATION CONTROL

AT A MINIMUM, THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALELS SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.
STRIPPING OF VEGETATION FROM THE PROJECT SITE SHALL BE PHASED SO AS TO EXPOSE THE MINIMUM AREA TO SOIL EROSION FOR THE SHORTEST PERIOD OF TIME.

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE THE CONTROLS WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED {31 TAC 313.5 (C)(12)}. ADDITIONAL PROTECTION MAY BE REQUIRED IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER/ENGINEER.

PLACEMENT OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION PLANS. ACTUAL LOCATIONS MAY VARY SLIGHTLY FROM THE PLANS, BUT WILL BE VERIFIED BY THE ENGINEER/INSPECTOR IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE DISTURBANCE OF THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN ENGINEER APPROVED DESIGNATED DISPOSAL AREA.

CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT NO EROSION CONTROL MEASURES BLOCK THE DRAINAGE SYSTEM FROM WORKING AS DESIGNED.

GBRA CONSTRUCTION NOTES

MATERIALS

- 1. GRAVITY WASTEWATER PIPE AND FITTINGS SHALL BE GREEN COLOR GASKETED ASTM D3034 SDR26. AT WATER CROSSINGS INCLUDING FIRE HYDRANT LEADS, WHITE COLOR GASKETED ASTM D2241 SDR26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS. SANITARY TAPPING SADDLES ARE NOT ALLOWED.
2. ALL OTHER FASTENERS SHALL BE TYPE 304 STAINLESS STEEL (E.G. HARDWARE, SCREWS, ANCHOR BOLTS, RODS, BOLTS, NUTS, ETC. FOR PIPING, VALVES, PUMPS, MOTORS, EQUIPMENT, ETC.) INCLUDING THOSE FOR FACTORY ASSEMBLY OF COMPONENTS. ALL BOLTS AND NUTS SHALL BE HEAVY HEX. ANCHOR BOLTS INSTALLED WITHIN HYDRAULIC STRUCTURES SHALL BE EPOXY TYPE. FIELD APPLY NICKEL ANTI-SEIZE COMPOUND TO THREADS PRIOR TO ASSEMBLY. STAINLESS STEEL ITEMS SHALL NOT BE PAINTED.
3. PVC MALE ADAPTERS ARE NOT ALLOWED.

TESTING NOTES

- 1. ALL OTHER UTILITIES MUST BE COMPLETE PRIOR TO PERFORMING ANY WATER OR WASTEWATER TESTING.
2. ALL TESTING MUST BE COMPLETE PRIOR TO PAVING STREETS.
3. ALL TESTING MUST BE COMPLETE PRIOR TO PERFORMING TIE-INS TO EXISTING WATER OR WASTEWATER SYSTEMS.
4. CONTRACTOR SHALL PERFORM PRE-TESTING TO VERIFY PAVING RESULTS PRIOR TO REQUESTING GBRA INSPECTION. PROVIDE CONNECTION POINT FOR GBRA DIGITAL TEST GAUGE.
5. ALL TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY GBRA.
6. PERFORM TRENCH BACKFILL DENSITY TESTING AT INTERVALS SPECIFIED BY THE DESIGN ENGINEER. EXACT LOCATIONS TO BE DESIGNATED BY INSPECTOR. SCHEDULE GBRA TO WITNESS TESTING. PROVIDE COPIES OF REPORTS TO GBRA.
7. ALL GRAVITY WASTEWATER PIPING SHALL BE SUBJECT TO LOW PRESSURE AIR TESTING IN ACCORDANCE WITH TCEQ REQUIREMENTS. INFILTRATION AND EXFILTRATION TESTING ARE NOT ALLOWED.
8. MANDREL TESTING SHALL BE PERFORMED FOR ALL GRAVITY WASTEWATER MAINS PRIOR TO INSTALLATION OF CORROSION RESISTANT MANHOLE LINING.
9. ALL MANHOLES, REGARDLESS OF VEHICULAR TRAFFIC DETOURING, SHALL BE VACUUM TESTED AFTER COMPLETION OF BACKFILL, COMPACTION, AND FINAL GRADING OF ROAD BASE BUT PRIOR TO PAVING STREETS AND PRIOR TO CORROSION RESISTANT MANHOLE LINING. VACUUM TESTING SHALL BE PERFORMED WITH A PLATE TYPE TEST HEAD PLACED ON TOP OF COMPLETED MANHOLE METAL CASTING RING WHICH HAS BEEN INSTALLED AND ENCASED IN CONCRETE AT FINAL GRADE. MANHOLES SHALL BE TESTED AT 10 INCHES OF MERCURY FOR 2 MINUTES DURATION. ALLOWABLE LOSS IS 1 INCH OF MERCURY. INFILTRATION AND EXFILTRATION TESTING ARE NOT ALLOWED.
10. PERFORM VIDEO INSPECTION AND GOLF BALL TESTING OF GRAVITY WASTEWATER PIPING AFTER CORROSION RESISTANT MANHOLE LINING BUT PRIOR TO PAVING STREETS. PIPE AND MANHOLES MUST BE CLEANED FREE OF DIRT, ROCKS, SCALE, MUD, SILT, AND ANY OTHER FOREIGN MATTER PRIOR TO PERFORMING VIDEO INSPECTION AND GOLF BALL TESTING. FLOOD SYSTEM WITH WATER IMMEDIATELY PRIOR TO PERFORMING VIDEO INSPECTION. HANG AND DRAG A GOLF BALL IN FRONT OF CAMERA. PIPE GRADE IS OUT OF TOLERANCE IF GOLF BALL BECOMES FULLY SUBMERGED. SCHEDULE GBRA TO WITNESS VIDEO INSPECTION. PROVIDE DVD'S AND WRITTEN REPORTS TO GBRA.

CONSTRUCTION NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH GBRA STANDARDS AS PUBLISHED AT THE FOLLOWING WEBSITE: HTTP://WWW.GBRA.ORG/OPERATIONS/DEVELOPER-RESOURCES/
2. COPIES OF EACH CONSTRUCTION SUBMITTAL (SHOP DRAWINGS, PRODUCT DATA, ETC.) SHALL BE PROVIDED FOR GBRA REVIEW AND APPROVAL PRIOR TO FABRICATION. USE CLOUDS, BOXES, ARROWS, ETC., TO CLEARLY.
3. ALL WATER AND WASTEWATER INSTALLATIONS MUST BE INSPECTED AND APPROVED BY GBRA PRIOR TO BACKFILLING OR OTHERWISE COVERING THE WORK. THIS INCLUDES CROSSINGS OF WATER AND WASTEWATER BY OTHER UTILITIES. GBRA WILL PERFORM A MAXIMUM OF ONE (1) INSPECTION DAILY FOR ONE (1) HOUR DURATION BETWEEN 8:00AM AND 5:00PM EXCLUDING WEEKENDS AND HOLIDAYS. CALL 830-379-5822 TO SCHEDULE INSPECTIONS (48 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS).
4. TRENCH EXCAVATION AND PIPE INSTALLATION WILL NOT BE PERMITTED UNTIL SUBGRADE HAS BEEN ESTABLISHED. SURVEY STAKING MUST BE INSTALLED PRIOR TO AND MAINTAINED DURING TRENCH EXCAVATION AND PIPE INSTALLATION. SURVEY STAKING SHALL INCLUDE HORIZONTAL AND VERTICAL CONTROL AT A MINIMUM OF 50 FOOT STATION INTERVALS. HORIZONTAL OFFSETS SHALL BE 15 FEET MAXIMUM. INSTALL PROPERTY PINS AND STAKES. MARK FINISH GRADE LINES WITH CUT/FILL ON OFFSET STAKES AND PROPERTY STAKES. ALL MARKS SHALL FACE THE PIPELINE. SURVEY STAKING SHALL BE PERFORMED BY THE CONTRACTOR.
5. PVC MALE ADAPTERS ARE NOT ALLOWED.
6. SANITARY TAPPING SADDLES ARE NOT ALLOWED.
7. MANHOLE INTERNAL DROPS ARE NOT ALLOWED.
8. PIPE BELLS SHALL BE INSTALLED IN UPSTREAM DIRECTION.
9. ALL PIPING SHALL BE DESIGNED IN STRAIGHT ALIGNMENT VERTICALLY AND HORIZONTALLY. PIPE CURVATURE AND/OR DEFLECTION ARE NOT ALLOWED.
10. MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL AND 12 INCHES VERTICAL CLEARANCE BETWEEN WATER AND WASTEWATER AND OTHER UTILITIES. SHARED TRENCHES ARE NOT ALLOWED.
11. WATER AND WASTEWATER PIPE LENGTHS SHALL BE CENTERED AT CROSSINGS WITH ALL OTHER UTILITIES, INCLUDING DRY UTILITY SERVICES. BOTH PIPES SHALL BE CENTERED AT WATER AND WASTEWATER CROSSINGS, INCLUDING WASTEWATER SERVICE LATERALS AND FIRE HYDRANT LEADS.
12. WATER AND WASTEWATER PIPING (INCLUDING MAINS, SERVICES, AND LATERALS) SHALL BE SLEEVED IF LOCATED UNDER CONCRETE CHANNELS, BOX CULVERTS, OR MULTIPLE BARREL STORM SEWER CROSSINGS REGARDLESS OF SIZE AND SINGLE BARRELS 30" OR LARGER.
13. ALL EXPOSED VERTICAL AND HORIZONTAL CONCRETE EDGES SHALL BE FORMED WITH "N" CHAMFER STRIPS.
14. EXISTING FACILITIES THAT ARE DISTURBED SHALL BE RESTORED AND TESTED TO BE IN FULL COMPLIANCE WITH CURRENT GBRA STANDARDS. THE CONTRACTOR SHALL ADJUST EXISTING WATER AND WASTEWATER FACILITIES TO PROPOSED FINISH GRADES INCLUDING BUT NOT LIMITED TO MANHOLES, CLEANOUTS, VALVES, HYDRANTS, APPURTENANCES, ETC.
15. EXISTING MANHOLES THAT ARE DISTURBED SHALL BE RESTORED TO BE IN FULL COMPLIANCE WITH CURRENT GBRA STANDARDS INCLUDING TESTING, CORROSION RESISTANT LINING, RINGS AND COVERS, ETC.
16. THE CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING WATER AND WASTEWATER SYSTEMS AT ALL TIMES DURING CONSTRUCTION. ANY WORK INVOLVING POWER OUTAGES, BYPASS PUMPING, PUMP AND HAUL, OR ANY OTHER INTERRUPTION OF FLOW MUST BE PERFORMED BETWEEN 8:00AM AND 5:00PM EXCLUDING WEEKENDS AND HOLIDAYS. ALL NECESSARY TEMPORARY POWER, BYPASS PUMPING, PUMP AND HAUL, TEMPORARY PLUGS, ETC., SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR. COORDINATE AND SCHEDULE ANY SUCH ACTIVITIES WITH GBRA AT LEAST TWO (2) WEEKS IN ADVANCE.
17. EXPLOSIVES AND BLASTING ARE NOT ALLOWED.

GBRA NOTES

ALL MODIFICATIONS AND CROSSINGS OF GBRA UTILITIES MUST BE INSPECTED AND APPROVED BY GBRA PRIOR TO BACKFILLING OR OTHERWISE COVERING THE WORK. GBRA WILL PERFORM A MAXIMUM OF (1) INSPECTION DAILY FOR ONE (1) HOUR DURATION BETWEEN 8:00AM AND 5:00PM EXCLUDING WEEKENDS AND HOLIDAYS. CALL 830-379-5822 TO SCHEDULE INSPECTIONS (48 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL INSPECTIONS).

COPIES OF EACH CONSTRUCTION SUBMITTAL (SHOP DRAWINGS, PRODUCT DATA, ETC.) SHALL BE PROVIDED FOR GBRA REVIEW AND APPROVAL PRIOR TO FABRICATION. USE CLOUDS, BOXES, ARROWS, ECT., TO CLEARLY MARK ALL PROPOSED OPTIONS AND PART NUMBERS. LIST ANY PROPOSED DEVIATIONS ON THE SUBMITTAL COVER SHEET. ALLOW 21 CALENDAR DAYS FOR REVIEW.

UTILITIES

LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION, INCLUDING THOSE NOT SHOWN ON THE DRAWINGS.

ANY EXISTING UTILITIES, ON OR OFF THE SITE, THAT ARE DAMAGED OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE RESPECTIVE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AT:

Table listing utility companies and their contact information: GBRA (830) 608-8951, SHUSD (830) 379-7683, GVEC (830) 223-4832, SPECTRUM CABLE (855) 707-7328, CENTERPOINT ENERGY (GAS) (800) 752-8036, AT&T (830) 303-1333, TEXAS ONE CALL SYSTEM (800) 245-4545, ENERGY TRANSFER (PETROLEUM PIPELINE) (GILBERT DE LA GARZA) (512) 212-6134

CONTRACTOR SHALL REFERENCE NEW BRAUNFELS UTILITIES PLANS FOR FINAL ELECTRICAL LINE DESIGNS AND LAYOUT.

SEQUENCE OF CONSTRUCTION

- 1. INSTALL EROSION CONTROLS PER APPROVED PLAN.
2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.
3. CONDUCT DEMOLITION ACTIVITIES, IF APPLICABLE.
4. CONSTRUCT DRAINAGE IMPROVEMENTS, IF APPLICABLE.
5. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
6. CONSTRUCT DEVELOPMENT PER APPROVED PLANS.
7. INSTALL STREETSCAPE AND/OR LANDSCAPING IMPROVEMENTS.
8. CONTRACTOR TO VEGETATE ANY DISTURBED AREAS ONCE FINAL GRADING IS COMPLETE, AND ESTABLISH A MIN OF 70% VEGETATION PRIOR TO COMPLETION
9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
10. TPDES REQUIREMENTS - DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY WILL BEGIN AGAIN WITHIN 21 DAYS

NOTE TO CONTRACTOR:

- 1. ANY QUANTITIES PROVIDED BY HMT OR OWNER ON THE PLANS, OPINION OF PROBABLE COST, BID SUMMARIES, ETC. ARE FOR CURSORY USE ONLY. CONTRACTOR IS RESPONSIBLE FOR BIDDING SIGNED AND SEALED CONSTRUCTION PLANS. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.
2. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND ELEVATION OF ALL DOWNSTREAM CONNECTION POINTS PRIOR TO CONSTRUCTION. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL INSTALL ALL GRAVITY SEWER, GRAVITY STORM SEWER, CURBS AND PAVEMENT FROM THE MOST DOWNSTREAM POINT OF CONNECTION. IF IMPROVEMENTS ARE CONSTRUCTED FROM UPSTREAM TO DOWNSTREAM, THEN THE CONTRACTOR WILL TAKE FULL RISK AND LIABILITY OF ANY ISSUES THAT MIGHT ARISE FROM FLOWLINE ELEVATION DISCREPANCIES, UTILITY CONFLICTS, ETC.
4. CONTRACTOR IS RESPONSIBLE FOR THE STOCKPILING OF ANY EXCESS DIRT. ALL BID FROM CONTRACTOR SHOULD ACCOUNT FOR THE REMOVAL AND PLACEMENT OF ALL EARTHWORK TO INCLUDE STOCKPILING, EXPORT, IMPORT, ETC. IF A LOCATION OF PLACEMENT OF EXCESS DIRT IS NOT SHOWN ON THE PLANS, THEN CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE THE MOST SUITABLE STOCKPILE LOCATION.

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NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
TBPELS FIRM 10153600
HMT ENGINEERING & SURVEYING



1/29/2026

GENERAL NOTES (1 OF 2)
EVALD RD
ROADWAY IMPROVEMENTS

Table with columns for REVISION DATE, NO., and DESCRIPTION.

DATE: JANUARY 2026
DRAWN BY: KP
DESIGNED BY: AO
REVIEWED BY: DB
HMT PROJECT NO.: 011.041

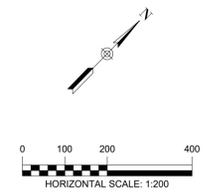
SHEET C0.01

Drawing Name: N:_Projects\011 - HB Homes\011.041 - Tirdley Grove Unit 1\CDs - SH 46 AND EWALD\011.041 - DRWG - 1.dwg User: allie-d Jan 29, 2026 - 4:48pm

EXISTING Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EX A	144.09	82.71	51.37	173.66	358.93	502.61	777.92
EX B	11.12	79.67	25.94	16.72	36.26	51.58	81.26

Point of Concentration Comparison Table				
POC A	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
Existing	173.66	358.93	502.61	777.92
Proposed*	163.91	351.24	493.81	766.06
Ultimate*	168.84	356.60	498.90	770.61
PROPOSED <= EXISTING?	YES	YES	YES	YES
ULTIMATE <= EXISTING?	YES	YES	YES	YES
POC B	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
Existing	16.72	36.26	51.58	81.26
Proposed	16.79	36.34	51.66	81.33
Ultimate**	26.04	47.50	63.72	94.69
PROPOSED <= EXISTING?	NO	NO	NO	NO
ULTIMATE <= EXISTING?	NO	NO	NO	NO

* Refer to drainage report for detention analysis
 ** Unit 3 will require detention to mitigate flows at POC B at the time of development.



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- DRAINAGE AREA
- TIME OF CONCENTRATION
- POINT OF CONCENTRATION
- DRAINAGE FLOW DIRECTION
- DRAINAGE AREA LABEL



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1/29/2026

**EXISTING DRAINAGE
 AREA MAP**
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
 DRAWN BY: KP
 DESIGNED BY: AO
 REVIEWED BY: DB
 HMT PROJECT NO.: 011.041

**SHEET
 C1.00**

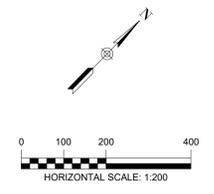
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EXISTING Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EX A	144.09	82.71	51.37	173.66	358.93	502.61	777.92
EX B	11.12	79.67	25.94	16.72	36.26	51.58	81.26

PROPOSED Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
PR A.1	137.69	83.08	51.44	167.77	345.06	482.34	745.25
PR A.2	6.40	84.31	25.46	11.45	22.94	31.79	48.70
PR B	11.12	79.79	25.94	16.79	36.34	51.66	81.33

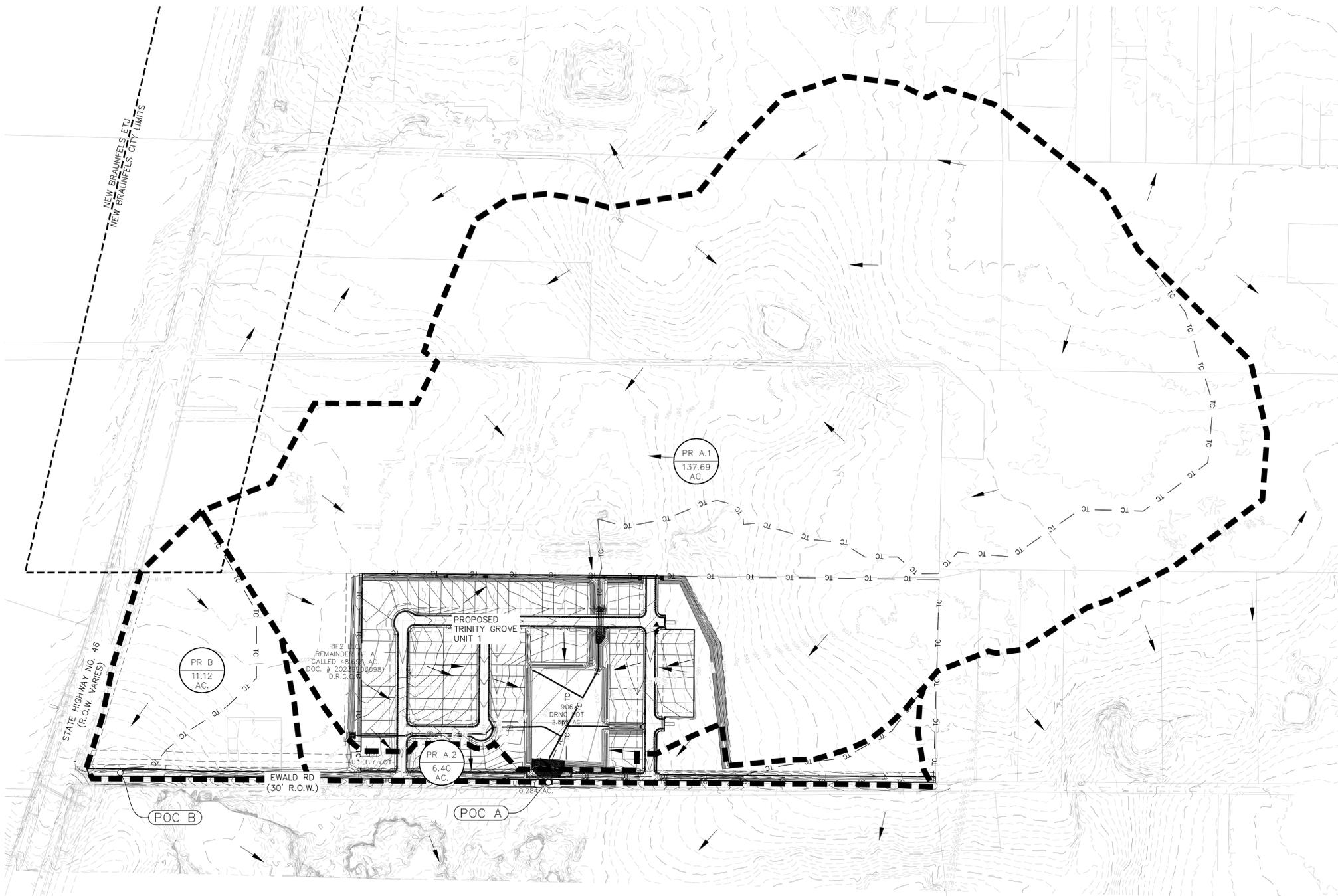
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Proposed*	163.91	351.24	493.81	766.06
Ultimate*	168.84	356.60	498.90	770.61
PROPOSED <= EXISTING?	YES	YES	YES	YES
ULTIMATE <= EXISTING?	YES	YES	YES	YES
POC B	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
Existing	16.72	36.26	51.58	81.26
Proposed	16.79	36.34	51.66	81.33
Ultimate**	26.04	47.50	63.72	94.69
PROPOSED <= EXISTING?	NO	NO	NO	NO
ULTIMATE <= EXISTING?	NO	NO	NO	NO

* Refer to drainage report for detention analysis
 ** Unit 3 will require detention to mitigate flows at POC B at the time of development.



LEGEND

- 700 --- EXISTING CONTOURS
- 700 --- PROPOSED CONTOURS
- --- DRAINAGE AREA
- TC --- TIME OF CONCENTRATION
- A-1 --- POINT OF CONCENTRATION
- --- DRAINAGE FLOW DIRECTION
- DA --- DRAINAGE AREA LABEL



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**PROPOSED
 DRAINAGE AREA MAP**
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
 DRAWN BY: KP
 DESIGNED BY: AO
 REVIEWED BY: DB
 HMT PROJECT NO.: 011.041

**SHEET
 C1.01**

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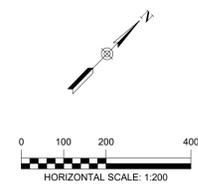
EXISTING Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EX A	144.09	82.71	51.37	173.66	358.93	502.61	777.92
EX B	11.12	79.67	25.94	16.72	36.26	51.58	81.26

PROPOSED Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
PR A.1	137.69	83.08	51.44	167.77	345.06	482.34	745.25
PR A.2	6.40	84.31	25.46	11.45	22.94	31.79	48.70
PR B	11.12	79.79	25.94	16.79	36.34	51.66	81.33

ULTIMATE Conditions Hydrology Calculations - SCS Method							
Drainage Area	Area	Curve Number	T _c	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
ULT A.1	138.56	83.72	51.44	173.13	352.07	490.13	754.27
ULT A.2	5.97	87.18	21.90	2.58	24.17	33.00	49.83
ULT B	11.12	90.85	20.64	26.04	47.50	63.72	94.69

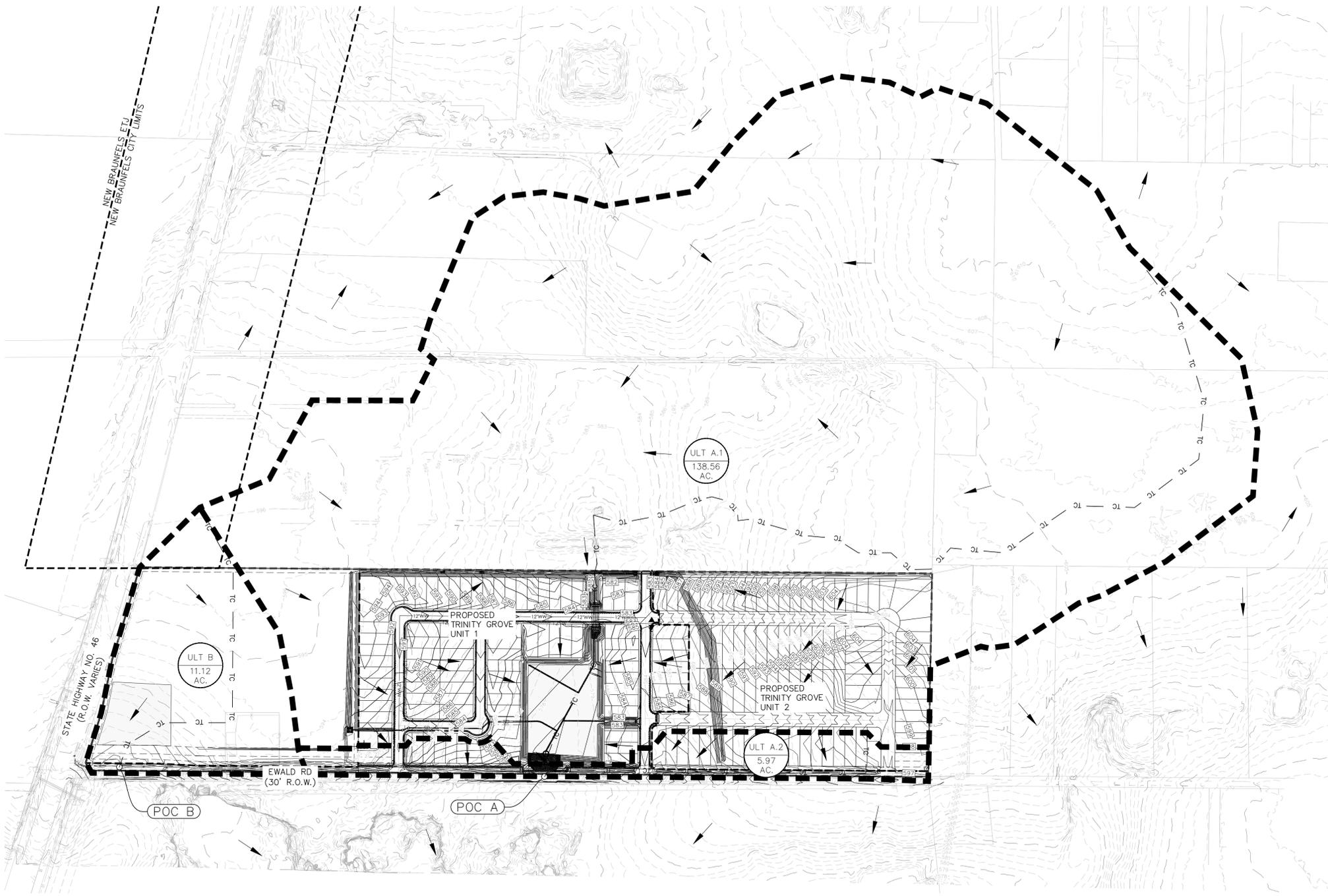
Point of Concentration Comparison Table				
POC A	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
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PROPOSED <= EXISTING?	YES	YES	YES	YES
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POC B	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
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Proposed	16.79	36.34	51.66	81.33
Ultimate**	26.04	47.50	63.72	94.69
PROPOSED <= EXISTING?	NO	NO	NO	NO
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* Refer to drainage report for detention analysis
 ** Unit 3 will require detention to mitigate flows at POC B at the time of development.



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- DRAINAGE AREA
- TIME OF CONCENTRATION
- POINT OF CONCENTRATION
- DRAINAGE FLOW DIRECTION
- DRAINAGE AREA LABEL



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1/29/2026

**ULTIMATE DRAINAGE
 AREA MAP**
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
 DRAWN BY: KP
 DESIGNED BY: AO
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 HMT PROJECT NO.: 011.041

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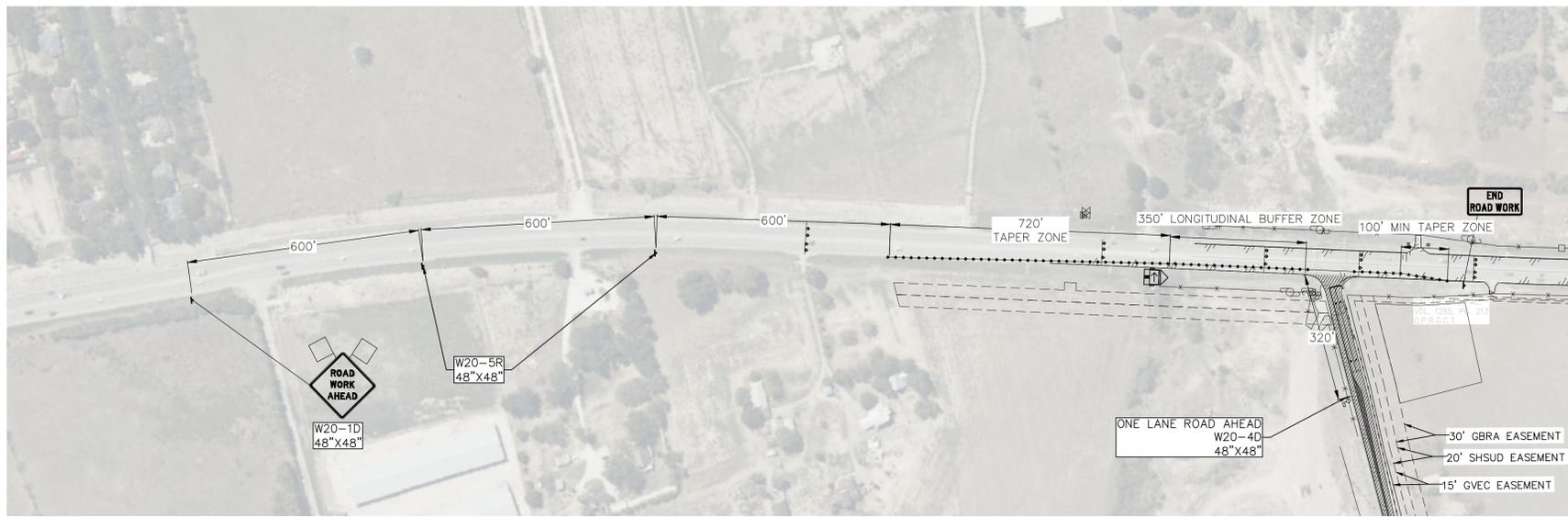
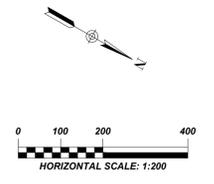
LEGEND	
	TYPE 3 BARRICADE
	HEAVY WORK VEHICLE
	TRAILER MOUNTED FLASHING ARROW BOARD
	SIGN
	FLAG
	CHANNELIZING DEVICES
	TRUCK MOUNTED ATTENUATOR (TMA)
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	TRAFFIC FLOW
	FLAGGER

POSTED SPEED *	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS **			SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES		MINIMUM SIGN SPACING "X" DISTANCE	SUGGESTED LONGITUDINAL BUFFER SPACE "B"
		10' OFFSET	11' OFFSET	12' OFFSET	ON X TAPER	ON A TANGENT		
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40	L=WS	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L=WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	L=WS	700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* CONVENTIONAL ROADS ONLY
 ** TAPER LENGTHS HAVE BEEN ROUNDED OFF.
 L=LENGTH OF TAPER(FT) W=WIDTH OF OFFSET(FT) S=POSTED SPEED(MPH)

GENERAL NOTES

1. FLAGS ATTACHED TO SIGNS WHERE SHOWN, ARE REQUIRED.
 2. ALL TRAFFIC CONTROL DEVICES ILLUSTRATED ARE REQUIRED, EXCEPT THOSE DENOTED WITH THE TRIANGLE SYMBOL. TRIANGLE SYMBOL MAY BE OMITTED WHEN STATED ELSEWHERE IN THE PLANS, OR FOR ROUTINE MAINTENANCE WORK, WHEN APPROVED BY THE ENGINEER.
 3. THE DOWNSTREAM TAPER IS OPTIONAL. WHEN USED, IT SHOULD BE 100 FEET MINIMUM LENGTH PER LANE.
 4. FOR SHORT TERM APPLICATIONS, WHEN POST MOUNTED SIGNS ARE NOT USED, THE DISTANCE LEGEND MAY BE SHOWN ON THE SIGN FACE RATHER THAN ON A CW16-3AP SUPPLEMENTAL PLAQUE.
 5. A SHADOW VEHICLE WITH A TMA SHOULD BE USED ANYTIME IT CAN BE POSITIONED 30 TO 100 FEET IN ADVANCE OF THE AREA OF CREW EXPOSURE WITHOUT ADVERSELY AFFECTING THE PERFORMANCE OR QUALITY OF THE WORK. IF WORKERS ARE NO LONGER PRESENT BUT ROAD OR WORK CONDITIONS REQUIRE THE TRAFFIC CONTROL TO REMAIN IN PLACE, TYPE 3 BARRICADES OR OTHER CHANNELIZING DEVICES MAY BE SUBSTITUTED FOR THE SHADOW VEHICLE AND TMA.
 6. ADDITIONAL SHADOW VEHICLES WITH TMAS MAY BE POSITIONED IN EACH CLOSED LANE, ON THE SHOULDER OR OFF THE PAVED SURFACE, NEXT TO THOSE SHOWN IN ORDER TO PROTECT A WIDER WORK SPACE.
 7. CONTRACTOR TO CONTACT SEGUIN AREA OFFICE TO SCHEDULE A PRECONSTRUCTION MEETING BEFORE CONSTRUCTION OF EWALD BEGINS.
 8. CONTRACTOR TO CONTACT TxDOT MAINTENANCE OFFICE 48 HOURS PRIOR TO WORK OCCURRING IN THE STATE ROW; TRAVIS YOUNG (830) 303-0130
 9. CONTRACTOR TO REQUEST LANE CLOSURE FROM TxDOT 72 HOURS BEFORE PLANNED LANE CLOSURE; TANYA BROWN (TANYA.BROWN@TXDOT.GOV)
- TCP (2-4a)
7. IF THIS TCP IS USED FOR A LEFT LANE CLOSURE, CW20-5TL "LEFT LANE CLOSED" SIGNS SHALL BE USED AND CHANNELIZING DEVICES SHALL BE PLACED ON THE CENTERLINE TO PROTECT THE WORK SPACE FROM OPPOSING TRAFFIC WITH THE ARROW BOARD PLACED IN THE CLOSED LANE NEAR THE END OF THE MERGING TAPER.
 8. R1-2 "YIELD" SIGN WITH R1-2aP "TO ONCOMING TRAFFIC" PLAQUE SHALL BE PLACED ON A SUPPORT AT A 7 FOOT MINIMUM MOUNTING HEIGHT.



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 TBPELS FIRM F-10961
 TBPELS FIRM 10153600



1/29/2026

**TRAFFIC CONTROL
 PLAN-SH 46**
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
 DRAWN BY: **KP**
 DESIGNED BY: **AO**
 REVIEWED BY: **DB**
 HMT PROJECT NO.:
011.041

**SHEET
 C2.00**

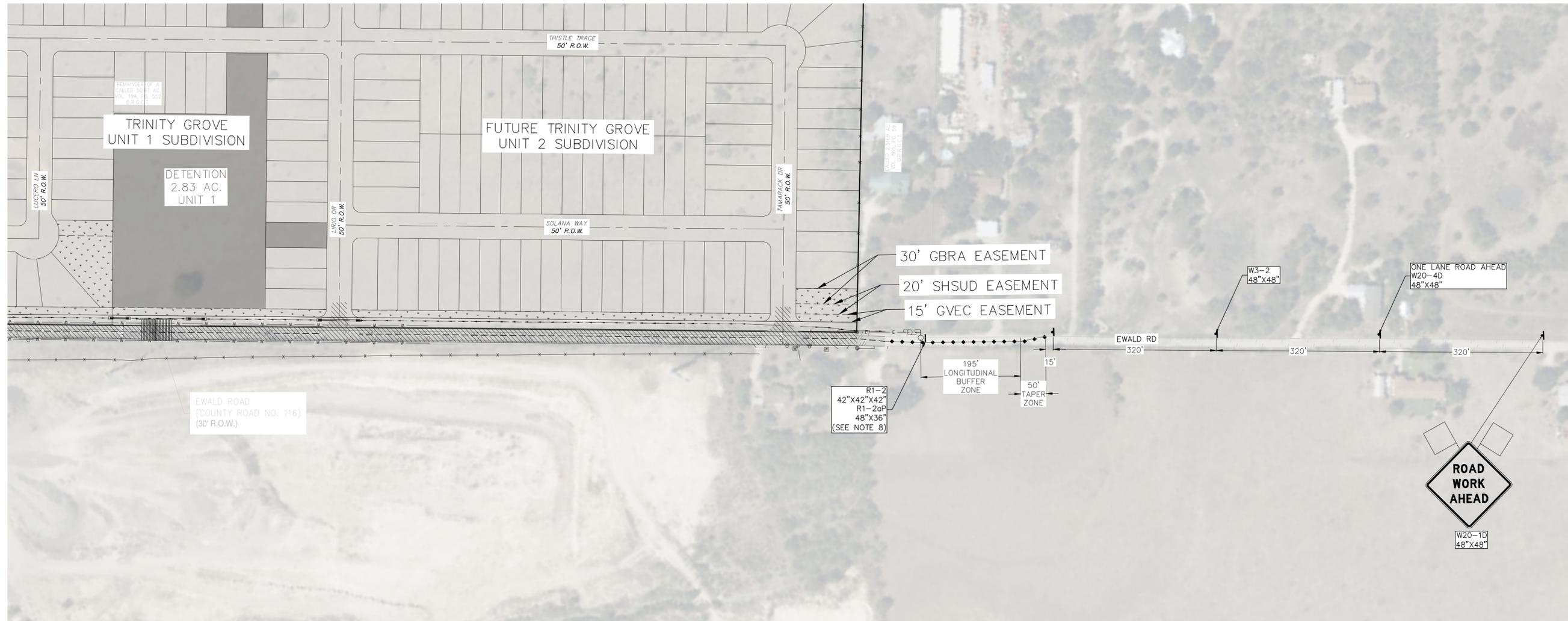
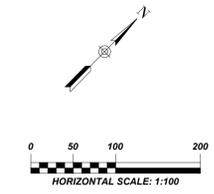
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 3. THE DOWNSTREAM TAPER IS OPTIONAL. WHEN USED, IT SHOULD BE 100 FEET MINIMUM LENGTH PER LANE.
 4. FOR SHORT TERM APPLICATIONS, WHEN POST MOUNTED SIGNS ARE NOT USED, THE DISTANCE LEGEND MAY BE SHOWN ON THE SIGN FACE RATHER THAN ON A CW16-SAP SUPPLEMENTAL PLAQUE.
 5. A SHADOW VEHICLE WITH A TMA SHOULD BE USED ANYTIME IT CAN BE POSITIONED 30 TO 100 FEET IN ADVANCE OF THE AREA OF CREW EXPOSURE WITHOUT ADVERSELY AFFECTING THE PERFORMANCE OR QUALITY OF THE WORK. IF WORKERS ARE NO LONGER PRESENT BUT ROAD OR WORK CONDITIONS REQUIRE THE TRAFFIC CONTROL TO REMAIN IN PLACE, TYPE 3 BARRICADES OR OTHER CHANNELIZING DEVICES MAY BE SUBSTITUTED FOR THE SHADOW VEHICLE AND TMA.
 6. ADDITIONAL SHADOW VEHICLES WITH TMAS MAY BE POSITIONED IN EACH CLOSED LANE, ON THE SHOULDER OR OFF THE PAVED SURFACE, NEXT TO THOSE SHOWN IN ORDER TO PROTECT A WIDER WORK SPACE.
 7. CONTRACTOR TO CONTACT SEQUIN AREA OFFICE TO SCHEDULE A PRECONSTRUCTION MEETING BEFORE CONSTRUCTION OF EWALD BEGINS.
 8. CONTRACTOR TO CONTACT TxDOT MAINTENANCE OFFICE 48 HOURS PRIOR TO WORK OCCURRING IN THE STATE ROW. TRAVIS YOUNG (830) 303-0130
 9. CONTRACTOR TO REQUEST LANE CLOSURE FROM TxDOT 72 HOURS BEFORE PLANNED LANE CLOSURE: TANYA BROWN (TANYA.BROWN@TXDOT.GOV)
- TCP (2-4a)
7. IF THIS TCP IS USED FOR A LEFT LANE CLOSURE, CW20-S1L "LEFT LANE CLOSED" SIGNS SHALL BE USED AND CHANNELIZING DEVICES SHALL BE PLACED ON THE CENTERLINE TO PROTECT THE WORK SPACE FROM OPPOSING TRAFFIC WITH THE ARROW BOARD PLACED IN THE CLOSED LANE NEAR THE END OF THE MERGING TAPER.
 8. R1-2 "YIELD" SIGN WITH R1-2aP "TO ONCOMING TRAFFIC" PLAQUE SHALL BE PLACED ON A SUPPORT AT A 7 FOOT MINIMUM MOUNTING HEIGHT.

LEGEND	
	TYPE 3 BARRICADE
	HEAVY WORK VEHICLE
	TRAILER MOUNTED FLASHING ARROW BOARD
	SIGN
	FLAG
	CHANNELIZING DEVICES
	TRUCK MOUNTED ATTENUATOR (TMA)
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	TRAFFIC FLOW
	FLAGGER

POSTED SPEED *	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS **			SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES		MINIMUM SIGN SPACING "X" DISTANCE	SUGGESTED LONGITUDINAL BUFFER SPACE "B"
		10' OFFSET	11' OFFSET	12' OFFSET	ON X TAPER	ON A TANGENT		
30	L = WS ² / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75	750'	825'	900'	75'	150'	900'	540'	

* CONVENTIONAL ROADS ONLY
 ** TAPER LENGTHS HAVE BEEN ROUNDED OFF.
 L=LENGTH OF TAPER(FT) W=WIDTH OF OFFSET(FT) S=POSTED SPEED(MPH)



290 S. CASTELL AVE., STE. 100
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 TBPELS FIRM 10153600



1/29/2026

TRAFFIC CONTROL
 PLAN - EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
 DRAWN BY: KP
 DESIGNED BY: AO
 REVIEWED BY: DB
 HMT PROJECT NO.: 011.041

SHEET
C2.01

Drawing Name: N:\Projects\011 - RB Home\011.041 - Tirdly Grove Unit 1\CDs - SH 46 AND EWALD\011.041_T001 DETAILS.dwg User: ellie-d Jan 29, 2026 - 4:49pm

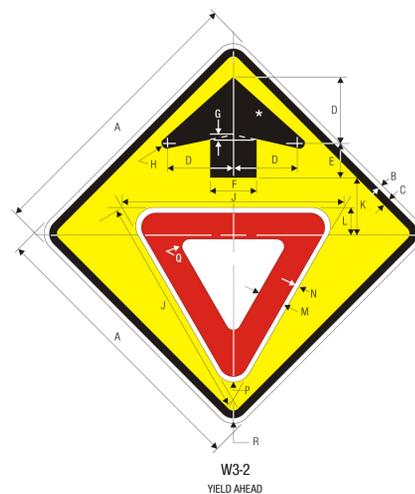
W20-4
Revised 3/1/2012



**AHEAD, 500 FT, 1000 FT, 1/2 MILE

A	B	C	D	E	F	G	H	J	K	L
30	.5	.75	4 C	1.875	1	10.104	10.521	.313	5.833	1.875
36	.625	.875	5 C	2.25	1.25	12.125	12.625	.375	7	2.25
48	.75	1.25	7 C	3.125	1.75	18.5	17.75	.5	9.688	3

COLORS: LEGEND, BORDER - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)



*See page 6-3 for symbol design.

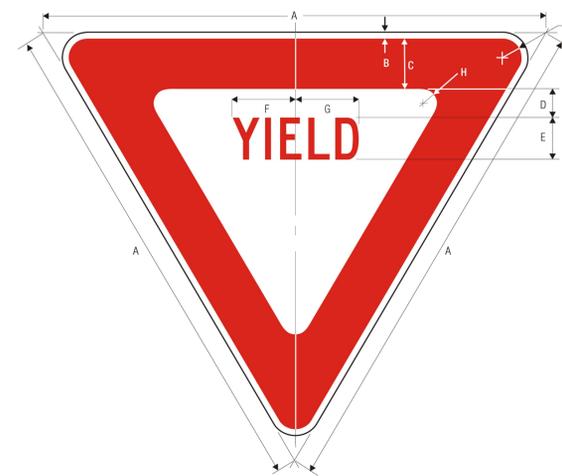
A	B	C	D	E	F	G	H	J	K	L	M	N
18	.375	.625	4.5	2.25	3	.375	.187	14	3	1.687	1.875	.313
24	.375	.625	6	3	4	.5	.25	19	5	2.25	2.5	.375
30	.5	.75	7.5	3.75	5	.625	.313	25	6.25	3	3.375	.5
36	.625	.875	9	4.5	6	.75	.375	28	7.5	3.375	3.75	.625
48	.75	1.25	12	6	8	1	.5	38	10	4.5	5	.75

P	Q	R
.687	.375	1.5
.937	.5	1.5
1.25	.625	1.875
1.375	.75	2.25
1.875	1	3

WARNING SIGN COLORS:
BORDER & ARROW - BLACK
SYMBOL - WHITE BORDER / RED BACKGROUND (RETROREFLECTIVE)
BACKGROUND - YELLOW (RETROREFLECTIVE)

TTC COLORS:
BORDER & ARROW - BLACK
SYMBOL - WHITE BORDER / RED BACKGROUND (RETROREFLECTIVE)
BACKGROUND - ORANGE (RETROREFLECTIVE)

2-22



A	B	C	D	E	F	G	H	J
18	.375	2	1	1.5 C	2.375	2.188	.625	1.5
24	.375	3	1.375	2 C	3.25	3	.875	1.5
30	.625	4	1.75	2.5 C	3.938	3.625	.875	1.5
36	.75	5	2	3 C	4.688	4.375	1.25	2
48	1	6	2.75	4 C	6.25	5.875	2	3
60	1.5	8	3.5	5 C	7.875	7.25	2.5	4

COLORS: LEGEND - RED (RETROREFLECTIVE)
BACKGROUND - WHITE (RETROREFLECTIVE)

1-2

W20-5
Revised 3/1/2012



*Reduce spacing 50%.

**AHEAD, 500 FT, 1000 FT, 1/2 MILE

LEFT LANE CENTER LANE

A	B	C	D	E	F	G	H	J	K	L	M
30	.5	.75	4 C	1.625	2	12.614	8.203	1.875	11.604	13.420	13.280
36	.625	.875	5 C*	2.75	.375	15.75	10.25	2.25	14.5	16.25	15.75
48	.75	1.25	6 C*	3.375	.5	19	12.313	3	17.438	20.375	19.375

COLORS: LEGEND, BORDER - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)

2-143



*Series 2000 Standard Alphabets.

*Series 2000 "C" Alphabet may be substituted where space limitations occur due to length of word message.

A	B	C	D	E	F	G	H	J
24	.375	.625	4 D	2	2	6.685	6.965	1.5
30	.5	.75	4 D	2.742	2	6.685	6.965	1.875
36	.625	.875	5 D	3.682	2.481	8.406	8.666	2.25
48	.75	1.25	7 D	4.803	3.482	11.688	11.788	3
60	.75	1.25	8 D	5.484	4	13.370	13.930	3

TTC SIGN COLORS:
LEGEND - BLACK
BACKGROUND - ORANGE (RETROREFLECTIVE)



*Series 2000 Standard Alphabets.

A	B	C	D	E	F	G	H	J	K	L
24	18	.375	.625	2.5	3 D	2	2.188	10	7.75	1.5
36	30	.625	.875	5.25	4.5 D	3	3.266	14.873	11.496	2.25
48	24	.75	1.25	5	6 D	4	4.355	19.829	15.327	3

COLORS: LEGEND - BLACK
BACKGROUND - WHITE (RETROREFLECTIVE)

1-3

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
TBPELS FIRM 10153600



1/29/2026

TRAFFIC CONTROL
DETAILS (3 OF 3)

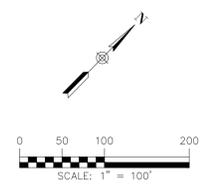
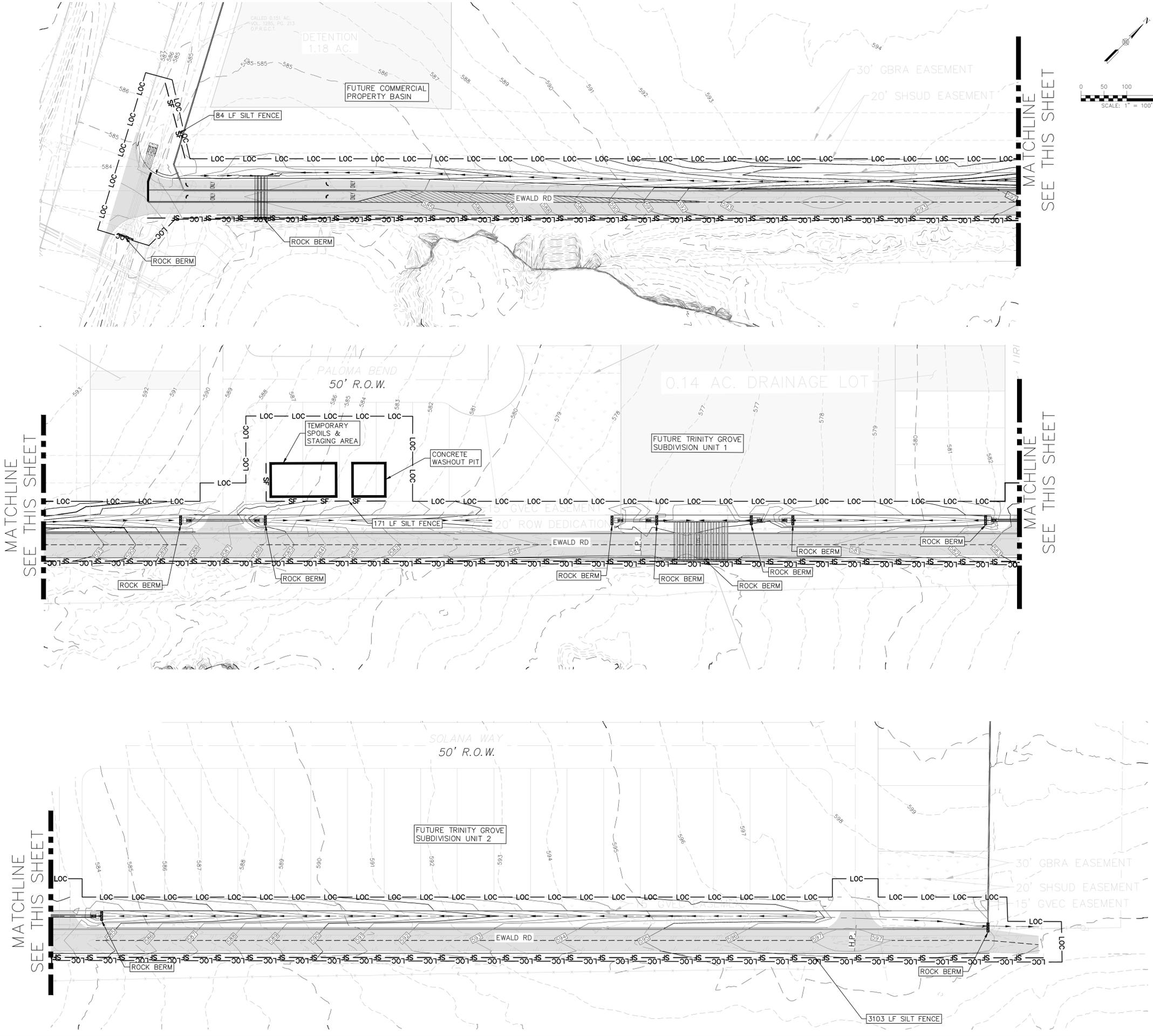
EWALD RD
ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
DRAWN BY: **KP**
DESIGNED BY: **AO**
REVIEWED BY: **DB**
HMT PROJECT NO.:
011.041

SHEET
C2.04

Drawing Name: N:\Projects\011 - RB Home\011.041 - Trinity Grove Unit 1\CDs - SH 46 AND EWALD\011.041_EROS.dwg User: elle-d Jun 23, 2026 - 4:49pm



- LEGEND**
- 700 — EXISTING CONTOURS
 - 700 — PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - DRAINAGE FLOW DIRECTION
 - SF — SF SILT FENCE
 - LOC — LOC LIMIT OF CONSTRUCTION
 - [Brick Pattern] STABILIZED CONSTRUCTION ENTRANCE
 - [Hatched Pattern] FILTER DIKE CURB INLET PROTECTION
 - [Solid Line] ROCK BERM

NOTE:

PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENT) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

SILT FENCE AT PROPERTY LINE MAY BE SHOWN GRAPHICALLY OFFSET FROM PROPERTY LINE TO AVOID OVERLAP OF LINWORK. CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES BEYOND LIMITS OF CONSTRUCTION REGARDLESS OF GRAPHIC REPRESENTATION.

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HMT
 ENGINEERING & SURVEYING



1/29/2026

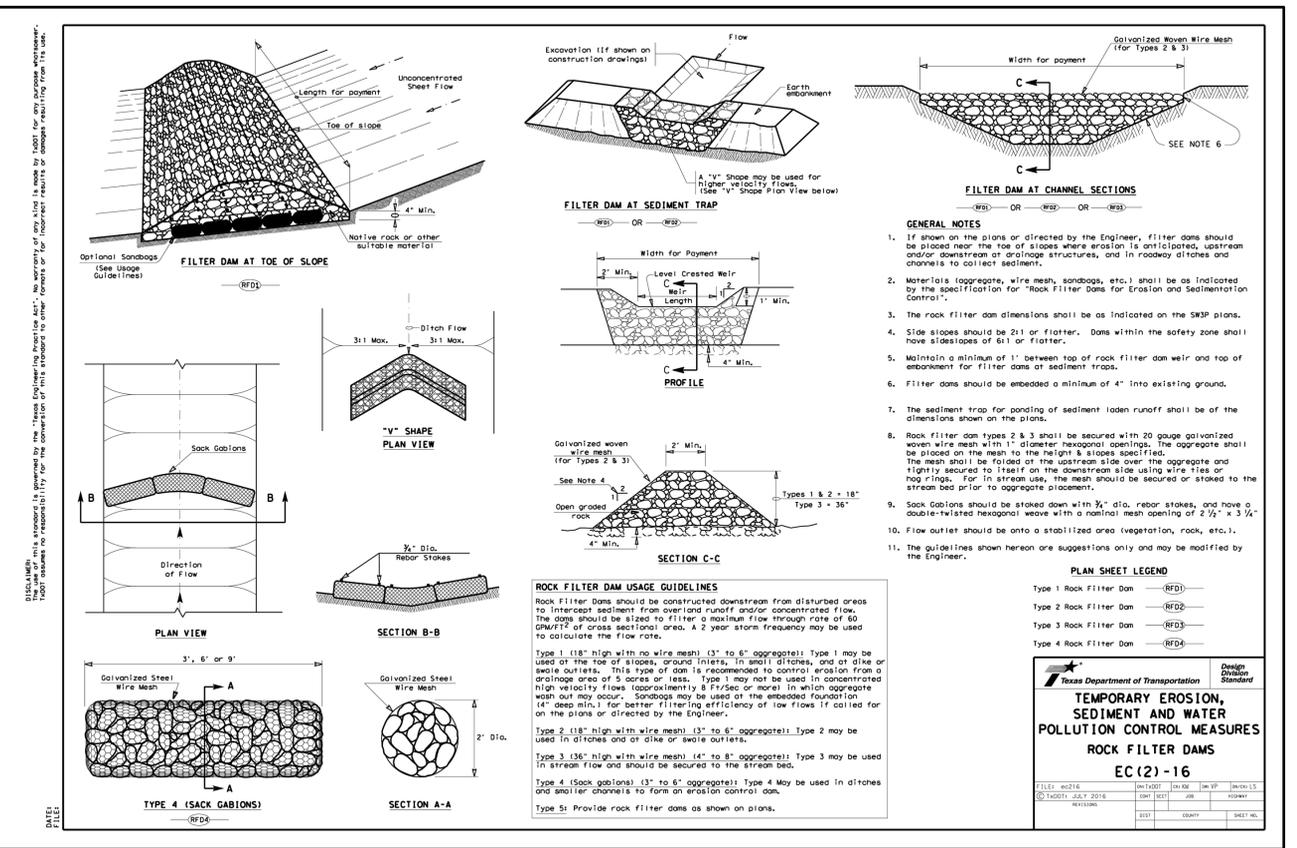
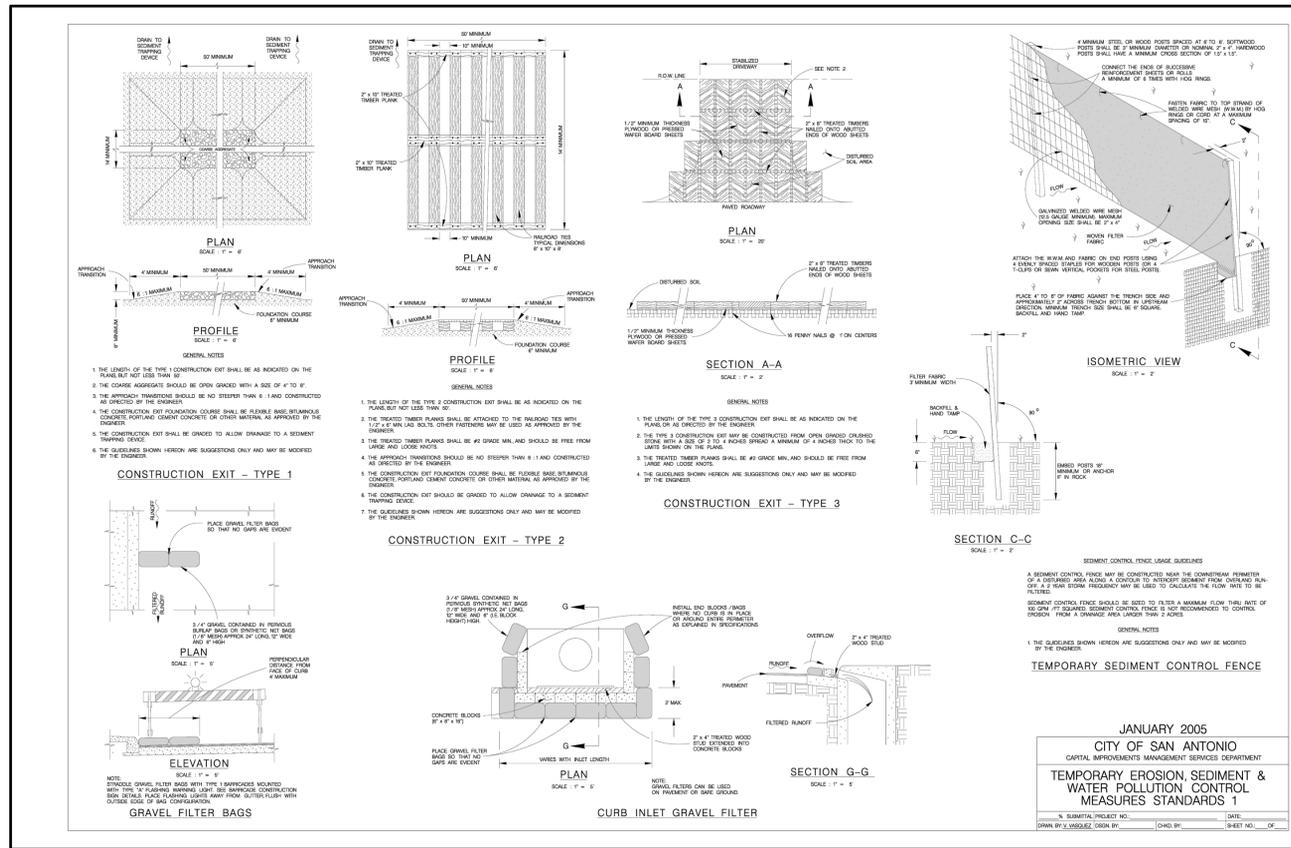
EROSION CONTROL PLAN
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
 DRAWN BY: KP
 DESIGNED BY: AO
 REVIEWED BY: DB
 HMT PROJECT NO.: 011.041

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

SHEET
C3.00



290 S. CASTELL AVE., STE. 100
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TBPELS FIRM 10153600

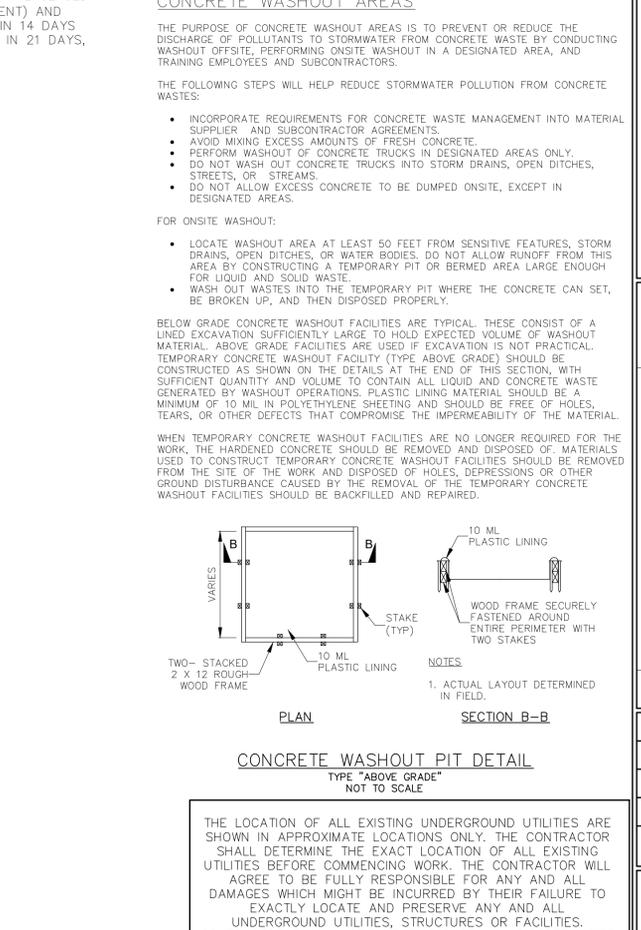
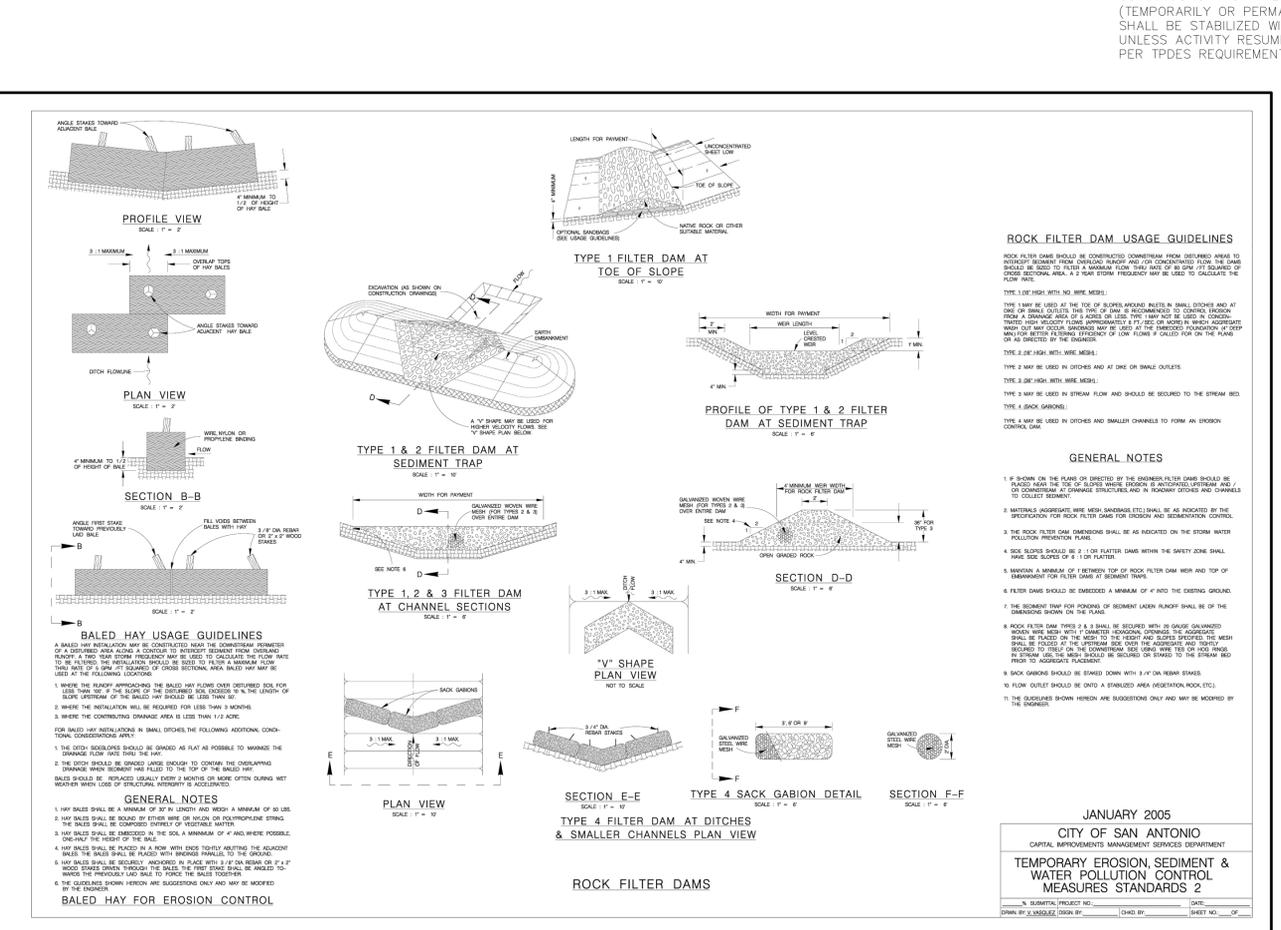
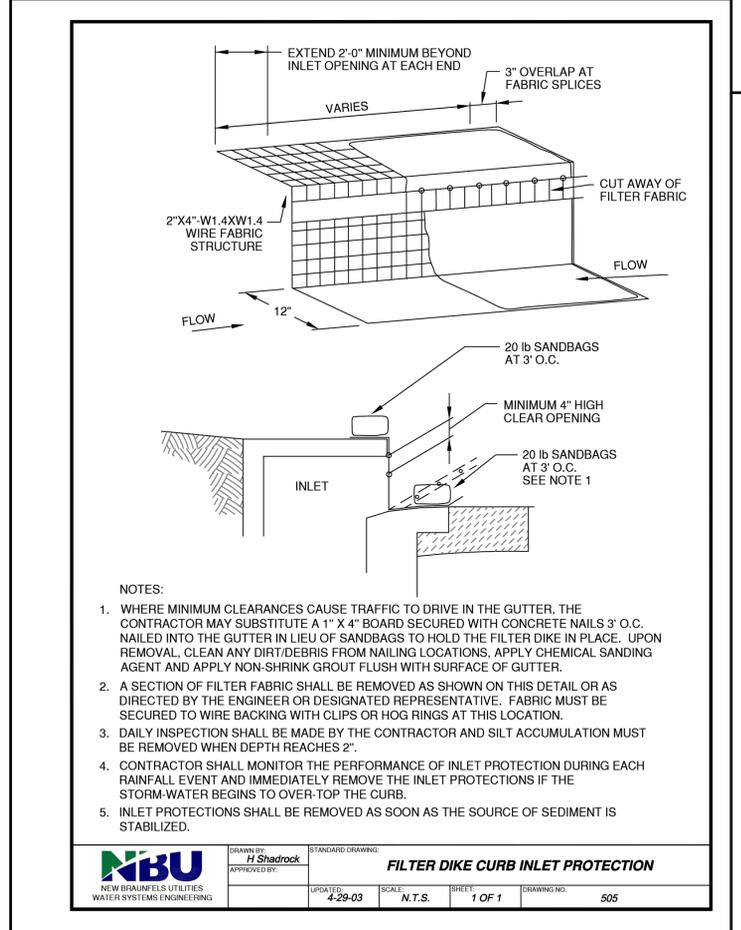
HMT
ENGINEERING & SURVEYING



1/29/2026

EROSION CONTROL DETAILS

ERWALD RD ROADWAY IMPROVEMENTS



NO.	REVISION DESCRIPTION

DATE: **JANUARY 2026**

DRAWN BY: **KP**

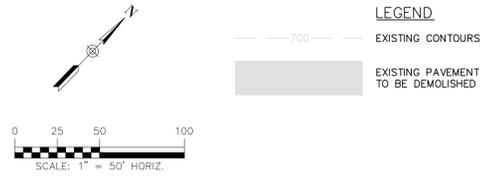
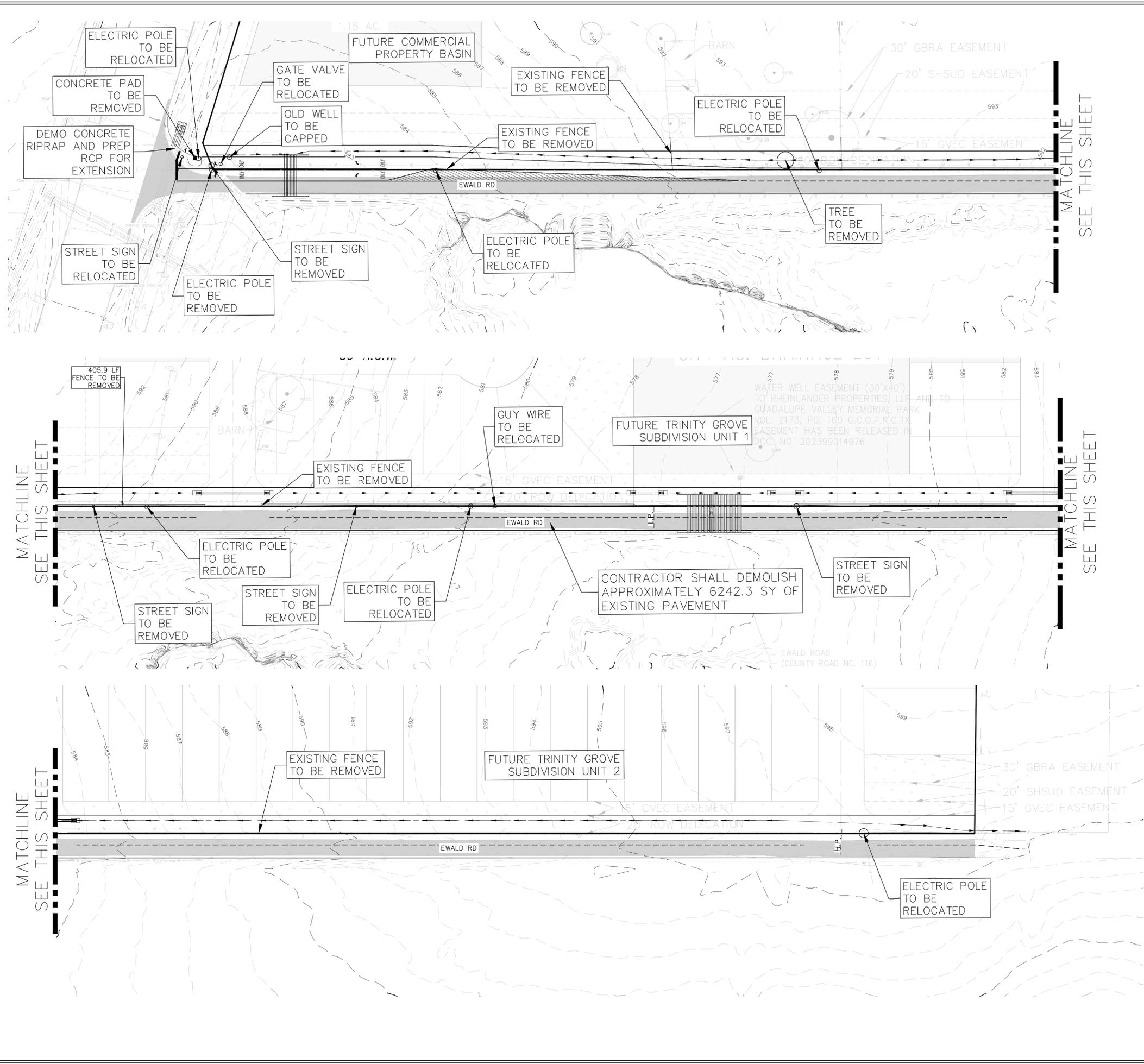
DESIGNED BY: **AO**

REVIEWED BY: **DB**

HMT PROJECT NO.: **011.041**

SHEET C3.01

Drawing Name: N:_Projects\011 - RB Home\011.041 - Trinity Grove Unit 1\CDs - SH 46 AND EWALD\011.041_REMO.dwg User: ellie-d Jan 29, 2026 - 4:49pm



LEGEND
 --- 700 --- EXISTING CONTOURS
 [Hatched Area] EXISTING PAVEMENT TO BE DEMOLISHED

290 S. CASTELL AVE., STE. 100
 NEW BRAUNFELS, TX 78130
 TBPELS FIRM F-10961
 TBPELS FIRM 10153600



1/29/2026

DEMOLITION PLAN AND DETAILS
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
 DRAWN BY: **KP**
 DESIGNED BY: **AO**
 REVIEWED BY: **DB**

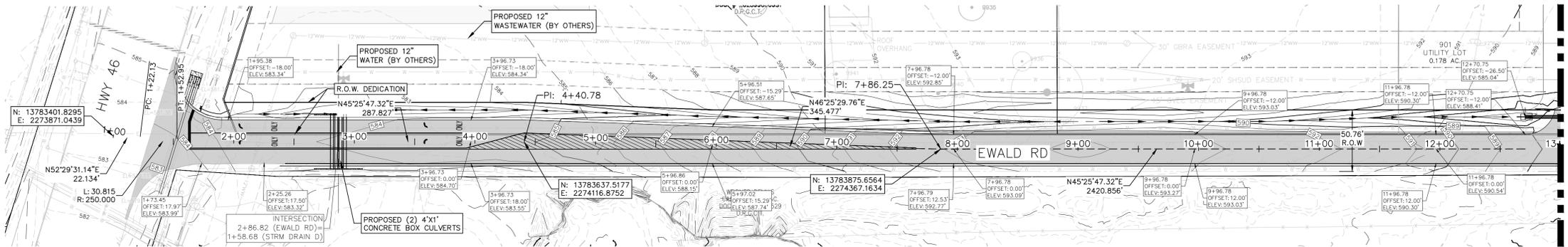
HMT PROJECT NO.: **011.041**

SHEET
C4.00

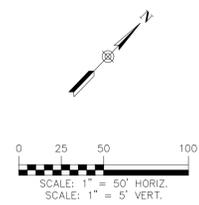
TXDOT NOTES:
 EXISTING CULVERT TO BE CLEANED AND INSPECTED BY TXDOT FOR APPROVAL.
 EXISTING TXDOT ROW TO BE MOWED AND REMOVED OF EXCESS SILT ALONG SH46 50' UPSTREAM AND 50' DOWNSTREAM.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

Drawing Name: N:\Projects\011 - RB Homes\011.041 - Tirdley Grove Unit 1\011 - SH 46 AND EWALD\011.041_GROAD.dwg User: cllie-d Jan 29, 2026 - 4:50pm



EWALD RD
0+50 - 13+00



MATCHLINE
STA: 13+00
SEE SHEET C5.01

- LEGEND**
- 700 — EXISTING CONTOURS
 - 700 — PROPOSED CONTOURS
 - — BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - FLOW ARROW
 - — EXISTING GROUND LEFT (EG LT)
 - — EXISTING GROUND RIGHT (EG RT)
 - — EXISTING GROUND CENTER (EG CTR)
 - — PROPOSED CENTERLINE (PR CL)
 - — FUTURE GROUND (FG)
 - — EXISTING PAVEMENT TO BE PAVED OVER
 - — PROPOSED PAVEMENT EXTENSION
- NOTES**
- LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 25 MPH.
 - CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.

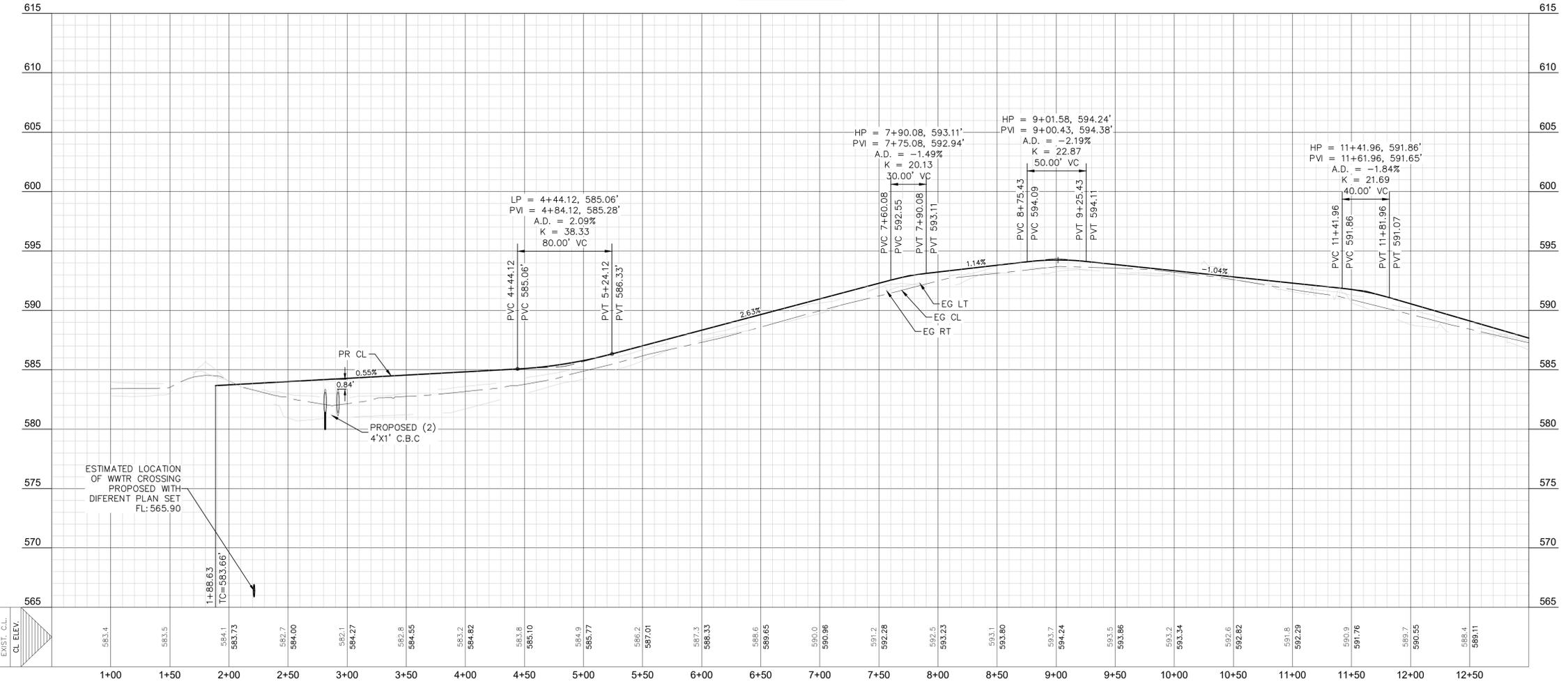


290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
TBPELS FIRM 10153600



1/29/2026

EWALD RD PLAN & PROFILE (1 OF 3)
EWALD RD
ROADWAY IMPROVEMENTS



NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
DRAWN BY: **KP**
DESIGNED BY: **AO**
REVIEWED BY: **DB**

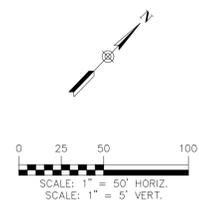
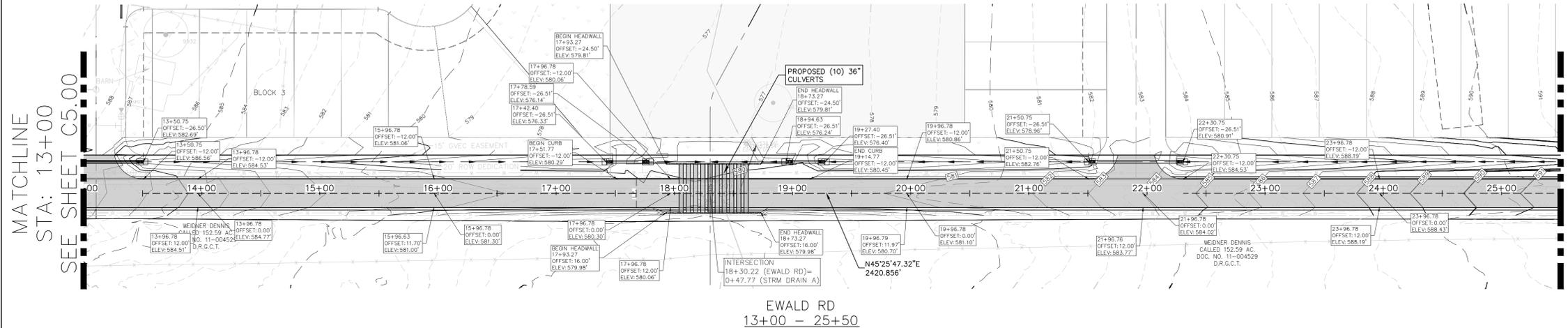
HMT PROJECT NO.: **011.041**

SHEET
C5.00

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

Drawing Name: N:_Projects\011 - RB Home\011_041 - Tirdly Grove Unit 1\011 - RB Home\011_041_GROAD.dwg User: elle-d Jan 29, 2026 - 4:50pm



- LEGEND**
- 700 — EXISTING CONTOURS
 - [700] — PROPOSED CONTOURS
 - — BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - FLOW ARROW
 - — EXISTING GROUND LEFT (EG LT)
 - — EXISTING GROUND RIGHT (EG RT)
 - — EXISTING GROUND CENTER (EG CTR)
 - — PROPOSED CENTERLINE (PR CL)
 - — FUTURE GROUND (FG)
 - — EXISTING PAVEMENT TO BE PAVED OVER
 - — PROPOSED PAVEMENT EXTENSION

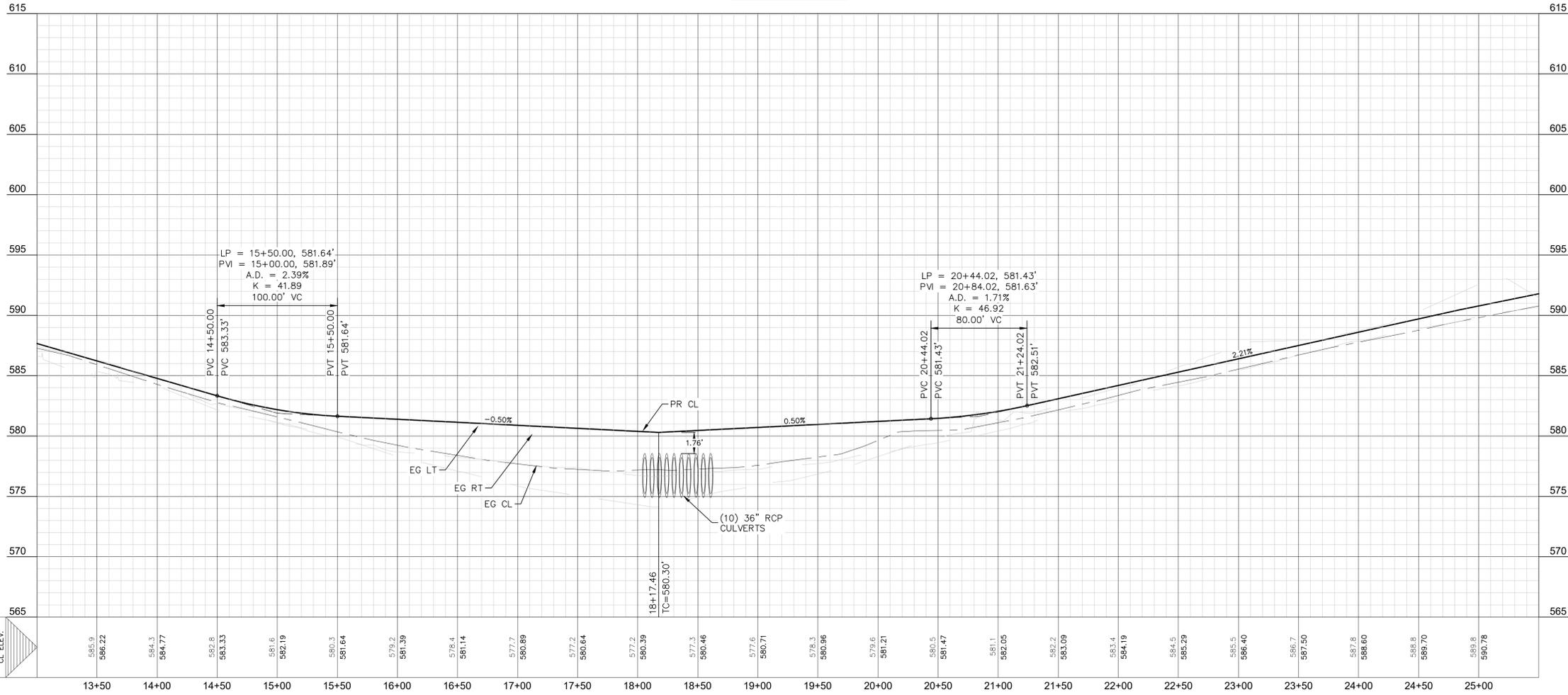
- NOTES**
- LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 25 MPH.
 - CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.

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1/29/2026

EWALD RD PLAN & PROFILE (2 OF 3)
EWALD RD
ROADWAY IMPROVEMENTS



EXIST. C.L. CL ELEV.	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00																							
585.9	586.22	584.3	584.77	582.8	583.33	581.6	582.19	580.3	581.64	579.2	581.39	578.4	581.14	577.7	580.89	577.2	580.64	577.2	580.39	577.3	580.46	577.6	580.71	578.3	580.96	579.6	581.21	580.5	581.47	581.1	582.05	580.2	583.09	583.4	584.19	584.5	585.29	585.5	586.40	586.7	587.50	587.8	588.60	588.8	589.70	589.8	590.78

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

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NO.	REVISION DESCRIPTION	REVISION DATE

DATE: JANUARY 2026
DRAWN BY: KP
DESIGNED BY: AO
REVIEWED BY: DB

HMT PROJECT NO.: 011.041

SHEET
C5.01

Drawing Name: N:\Projects\011 - RB Home\011.041 - Shirley Grove Unit 1\CDs - SH 46 AND EWALD\011.041_SDR.dwg User: ellie-d Jan 29, 2026 - 4:50pm

ITEM	NOTE
(A)	THERMOPLASTIC 24" SINGLE WHITE SOLID LINE
(B)	THERMOPLASTIC 4" SINGLE YELLOW SOLID LINE AND 4" SINGLE YELLOW DASHED LINE W/ TYPE I-A-A RAISED REFLECTIVE PAVEMENT MARKINGS 20' ON CENTERS
(C)	THERMOPLASTIC 4" SINGLE WHITE SOLID LINE (SHOULDER STRIPING)
(D)	THERMOPLASTIC 12" SINGLE WHITE SOLID LINE 8'-IN LENGTH AND AT 6' CENTER TO CENTER SPACING (PEDESTRIAN CROSSING)
(E)	THERMOPLASTIC TRAFFIC ARROW TYPE 1 & II
(F)	THERMOPLASTIC TRAFFIC MARKING TEXT (ONLY) TYPE 1 & II
(G)	THERMOPLASTIC 8" SINGLE WHITE SOLID LINE WITH TYPE I-C RAISED REFLECTIVE PAVEMENT MARKING ON 20' ON CENTERS
(H)	THERMOPLASTIC 4" SINGLE YELLOW DASHED LINE W/ TYPE II A-A RAISED REFLECTIVE PAVEMENT MARKINGS 20' ON CENTERS
(I)	THERMOPLASTIC 24" WHITE STOP BAR

SIGNAGE NOTES

INSTALLATION

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REGULATORY, WARNING AND STREET NAME SIGNS AND SIGN MOUNTS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.

MOUNTING

THE WEDGE ANCHOR STEEL SYSTEM AND THIN-WALLED TUBING POST SHALL BE USED FOR SIGNS WITH UP TO 10 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) TRAFFIC STANDARDS SMD (GEN) - 08 AND SMD (TWT) - 08.

THE TRIANGULAR SLIP BASE SYSTEM AND 10 BWG TUBING POST SHALL BE USED FOR SIGNS THAT HAVE 10 TO 16 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS SMD (GEN) - 08 AND SMD (SLIP-1-3) - 08.

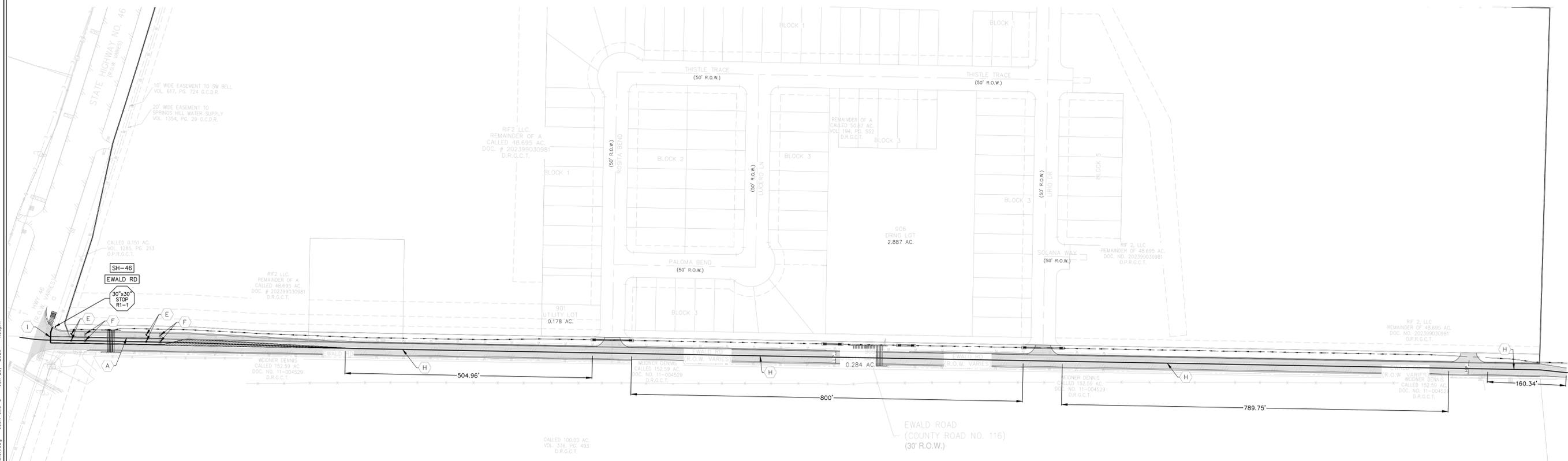
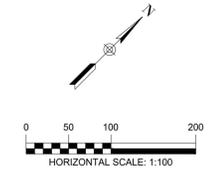
OBJECT MARKERS MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS D & OM (1 - 5) - 10.

LEGEND

- B.L. BUILDING SETBACK LINE
- U.E. UTILITY EASEMENT
- D.E. DRAINAGE EASEMENT
- A.D.A. RAMP
- ACCESSIBLE CROSSING AREA CONTRACTOR TO ENSURE MAX 2% CROSS SLOPE IN THESE AREAS
- SIDEWALK RAMP TYPE TO BE CONSTRUCTED AT TIME OF STREET CONSTRUCTION (SEE DETAIL SHEET **C5.03**)
- SIDEWALK TO BE CONSTRUCTED BY SITE DEVELOPMENT CONTRACTOR

NOTES

1. LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF **##** MPH.
2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH SIDE OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH STREETS.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
5. PER NEW BRAUNFELS ORDINANCE SEC. 114-98(c)(6) ALL DRIVEWAY LOCATED ON A SINGLE FAMILY RESIDENCE ON A LOCAL STREET SHALL HAVE A MINIMUM SPACING OF 20'



290 S. CASTELL AVE., STE. 100
 NEW BRAUNFELS, TX 78130
 TBPELS FIRM F-10961
 TBPELS FIRM 10153600



1/29/2026

SIGNAGE & STRIPING PLAN
 EWALD RD
 ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
 DRAWN BY: **KP**
 DESIGNED BY: **AO**
 REVIEWED BY: **DB**

HMT PROJECT NO.: **011.041**

SHEET
C5.03

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

TRUCKS NEXT YIELD MERGE EXIT STOP ONLY

SCHOOL SIGNAL TURN LANE ENDS PED STOP

ZONE AHEAD RIGHT LEFT ROUTE X-ING

1234567890 MPH TEXAS STATE IH US

STANDARD PLANS
Texas Department of Transportation
Traffic Operations Division
STANDARD PAVEMENT MARKINGS (WORDS)
PM (5) - 01

GENERAL NOTES:

- Minimum 8 foot white markings should be used, unless otherwise noted. If message consists of more than one word, it should be placed with first word nearest the driver.
- These details are standard size for normal installation. Size may be reduced approximately one-third for low speed urban conditions, larger sizes may be needed for freeways, above average speed conditions or other critical locations.
- The longitudinal space between markings should be at least four times the height of the markings, on low speed roads, but should not exceed ten times the height under any condition.
- Markings considered appropriate for use when warranted include the following:
 - Regulatory:
 - STOP
 - RIGHT (LEFT) TURN ONLY
 - 25 MPH
 - STREET ARROWS
 - Warning:
 - STOP AHEAD
 - SIGNAL AHEAD
 - SCHOOL X-ING
 - PEDESTRIAN
 - R X R (See RDM standard)
 - Guide:
 - US XXX
 - STATE XXX
 - ROUTE XXX
 Other words or symbols may be necessary under certain conditions.
- Uncontrolled use of pavement markings can result in driver confusion. Words and symbol markings should be no more than three lines.
- The word "STOP" shall not be used on the pavement unless accompanied by a Stop Line and Stop Sign. The word "STOP" shall not be placed on the pavement in advance to a stop line, unless every vehicle is required to stop at all times.
- Pavement markings should generally be no more than one line in width, with School markings being the exception. For details of School and School Crossing pavement markings, refer to Part VII of the Texas Manual on Uniform Traffic Control Devices.
- Spacing between letters should be approximately 4 inches. The width of letters may vary depending on the width of the travel lanes.
- Line-use arrow markings may be used to convey all the guidance or mandatory messages. Arrows used to convey a mandatory movement must be accompanied by standard signs and the pavement marking word "ONLY".
- Pavement markings are to be located as specified elsewhere in the plans.

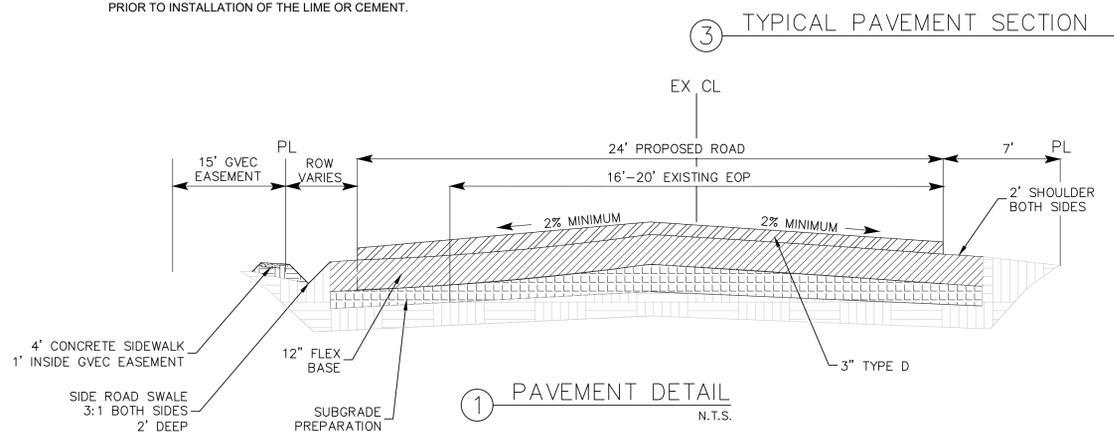
SPACING BETWEEN LINES OF PAVEMENT MARKINGS

MINIMUM	SPECIFIC	MAXIMUM
≤ 4 TIMES THE LETTER HEIGHT		4 TIMES THE LETTER HEIGHT
> 4 TIMES THE LETTER HEIGHT		10 TIMES THE LETTER HEIGHT

STANDARD PLANS
Texas Department of Transportation
Traffic Operations Division
STANDARD PAVEMENT MARKINGS (ARROWS)
PM (6) - 01

- NOTE:
- ALL PAVEMENT CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE TO THE "SUBSURFACE EXPLORATION AND PAVEMENT ANALYSIS, PROPOSED NEW STREETS", BY INTEC OF SAN ANTONIO, LP, DATED MAY 12, 2025.
 - ALL PAVEMENT SECTIONS SHOWN ON THE ABOVE TABLE SHALL SUPERCEDE ANY STANDARD DETAILS WITH RESPECT TO DEPTH OF MATERIALS ASSOCIATED WITH THIS PROJECT.
 - THE SUBGRADE SHOULD BE STABILIZED USING LIME IN ACCORDANCE WITH THE GEOTECHNICAL REPORT IN ORDER TO ACHIEVE THE FOLLOWING:
 - PLASTICITY INDEX OF 20 OR LESS
 - PH OF 12.4 OR GREATER
 - THE SUBGRADE SOILS SHOULD BE TESTED FOR SOLUBLE SULPHATE CONTENT PRIOR TO INSTALLATION OF THE LIME OR CEMENT.

FLEXIBLE PAVEMENTS	
PAVEMENT MATERIAL	
TYPE "D" HMAC	3"
AGGREGATE BASE	12"
LIME TREATED SUBGRADE	6"
TENSAR GEOGRID	NO



1/29/2026

EWALD RD DETAILS

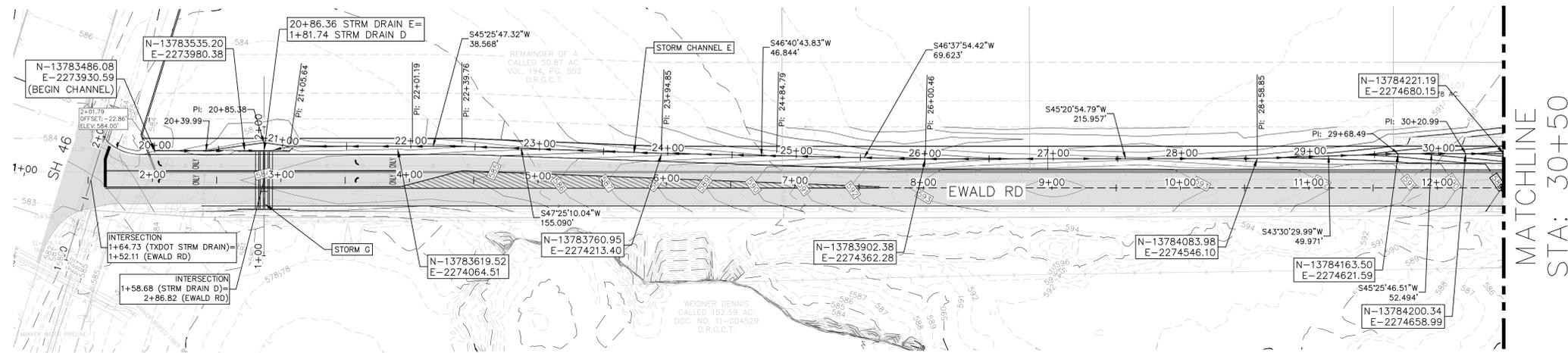
EWALD RD
ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	DATE

DATE: JANUARY 2026
DRAWN BY: KP
DESIGNED BY: AO
REVIEWED BY: DB
HMT PROJECT NO.: 011.041

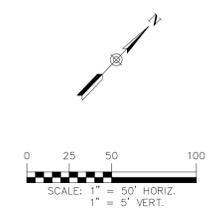
SHEET
C5.04

Drawing Name: N:\Projects\011 - RB Homes\011.041 - Shirley Grove Unit 1\CDs - SH 46 AND EWALD\011.041_STRM.dwg User: dle-d Jan 29, 2026 - 4:50pm



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- B.L. BUILDING SETBACK LINE
- U.E. UTILITY EASEMENT
- D.E. DRAINAGE EASEMENT
- R.C.P. REINFORCED CONCRETE PIPE
- PROPOSED STORM DRAIN LINE
- UTILITY CROSSING



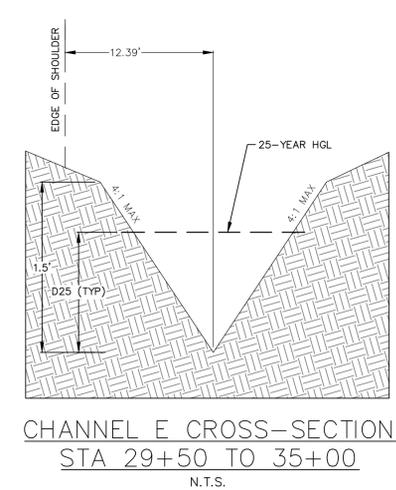
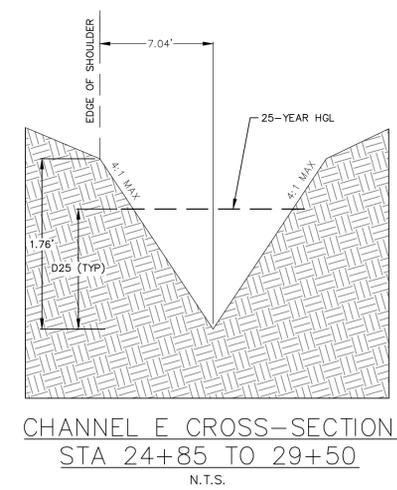
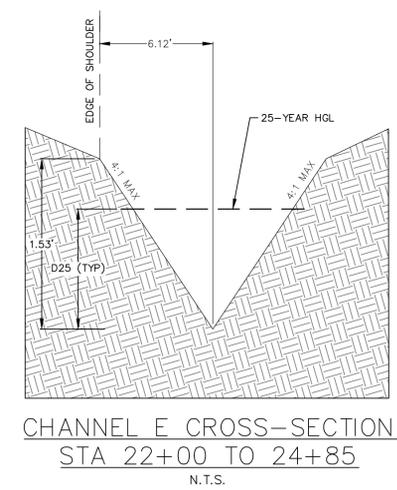
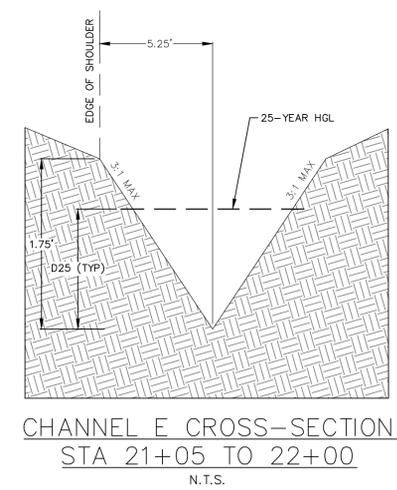
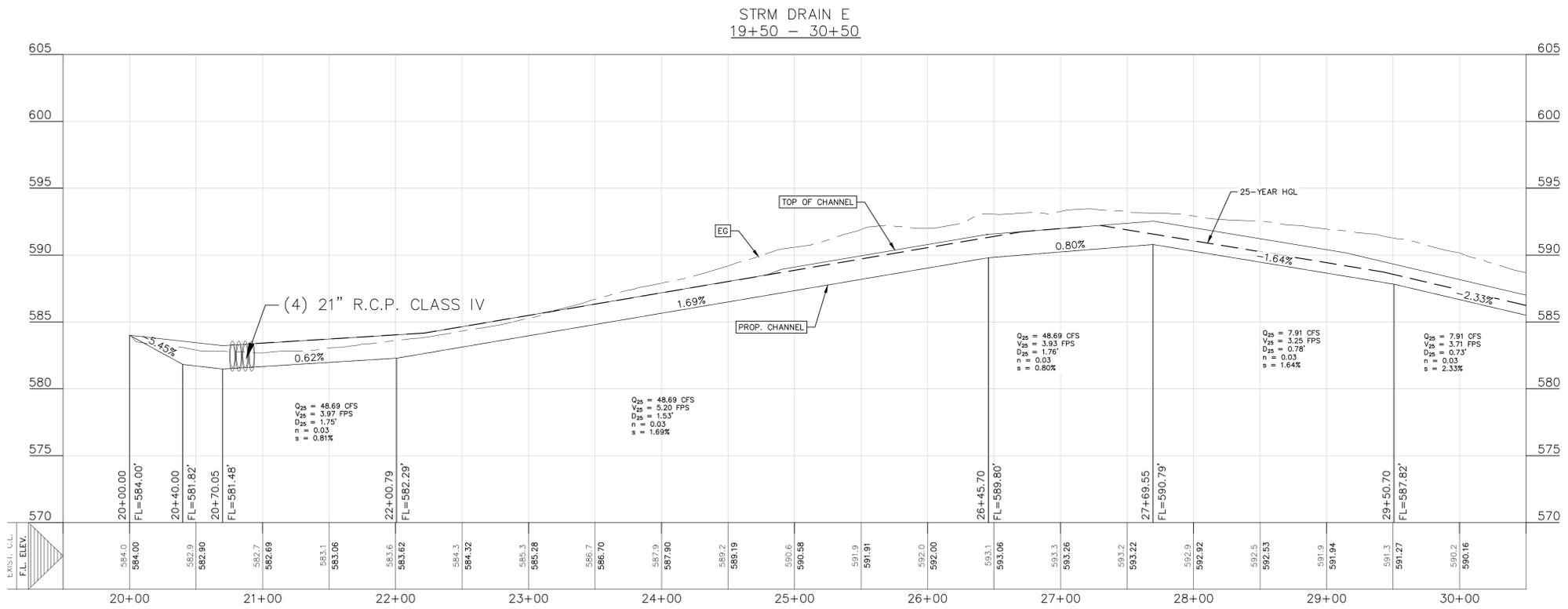
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1/29/2026

STORM DRAIN E STA- 20+00 TO 30+50 PLAN AND PROFILE
ROADWAY IMPROVEMENTS
 EWALD RD



REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

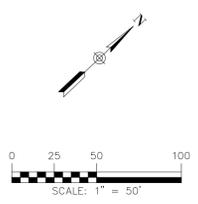
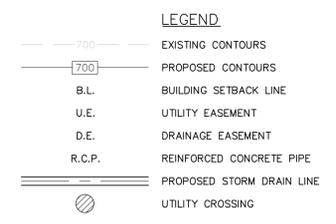
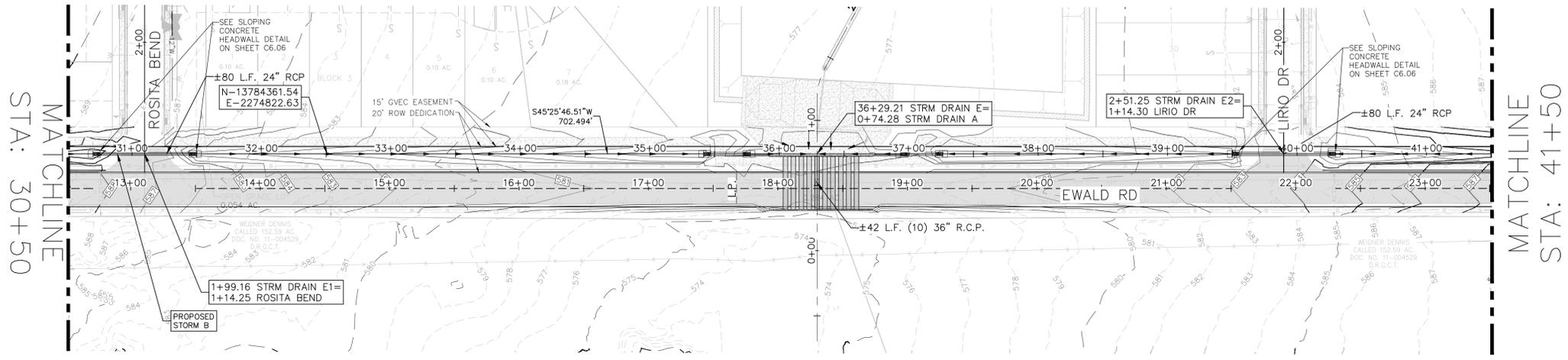
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NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
 DRAWN BY: **KP**
 DESIGNED BY: **AO**
 REVIEWED BY: **DB**

HMT PROJECT NO.: **011.041**
SHEET
C6.00

Drawing Name: N:\Projects\011 - RB Homes\011.041 - Timely Grove Unit 1\CDs - SH 46 AND EWALD\011.041_STRM.dwg User: cll-d Jan 29, 2026 - 4:50pm



DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
TBPELS FIRM 10153600



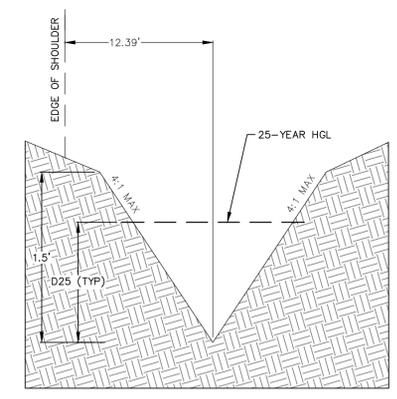
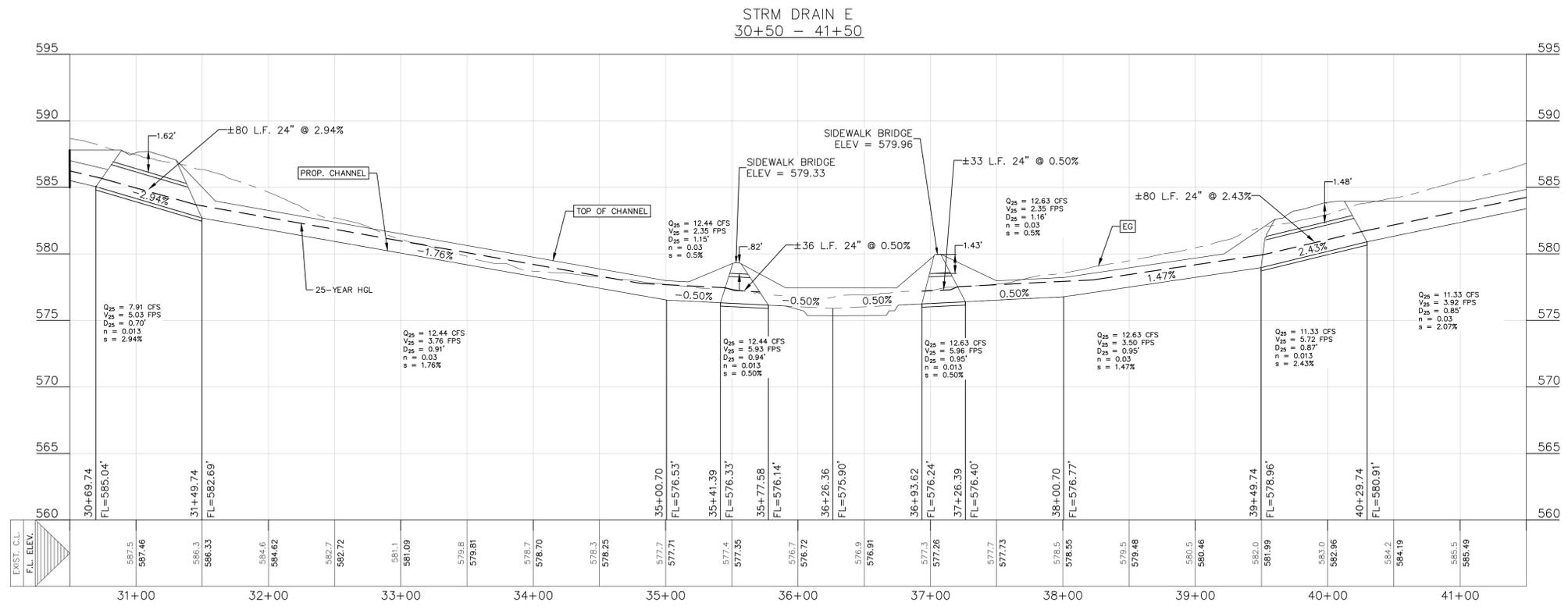
1/29/2026

STORM DRAIN E STA- 30+50 TO 41+50 PLAN AND PROFILE
ROADWAY IMPROVEMENTS

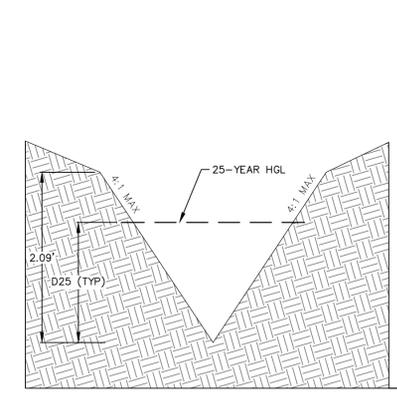
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DATE: **JANUARY 2026**
DRAWN BY: **KP**
DESIGNED BY: **AO**
REVIEWED BY: **DB**

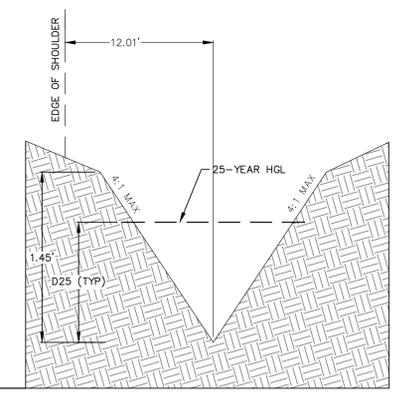
HMT PROJECT NO.: **011.041**
SHEET C6.01



CHANNEL E CROSS-SECTION
STA 29+50 TO 35+00
N.T.S.



CHANNEL E CROSS-SECTION
STA 35+00 TO 38+00
N.T.S.

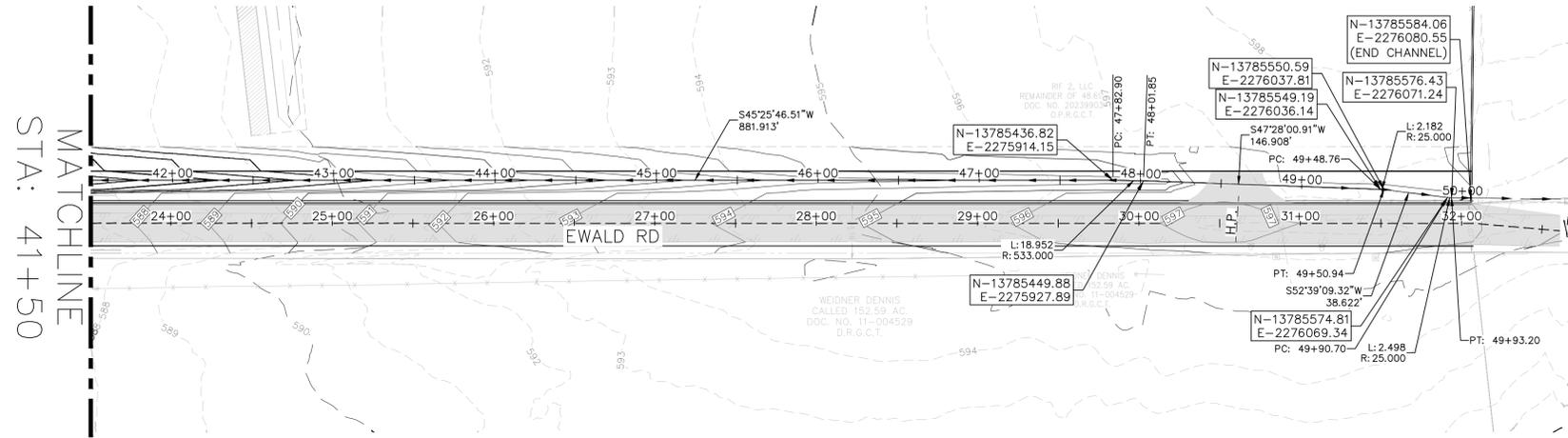


CHANNEL E CROSS-SECTION
STA 38+00 TO 41+50
N.T.S.

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

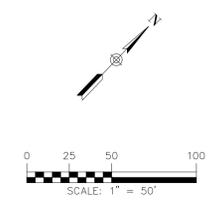
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Drawing Name: N:_Projects\011 - RB Homes\011.041 - Tirdley Grove Unit 1\CDs - SH 46 AND EWALD\011.041_STRM.dwg User: cll-d Jan 29, 2026 - 4:50pm



LEGEND

- 700 --- EXISTING CONTOURS
- 700 --- PROPOSED CONTOURS
- B.L. BUILDING SETBACK LINE
- U.E. UTILITY EASEMENT
- D.E. DRAINAGE EASEMENT
- R.C.P. REINFORCED CONCRETE PIPE
- --- PROPOSED STORM DRAIN LINE
- ⊗ UTILITY CROSSING



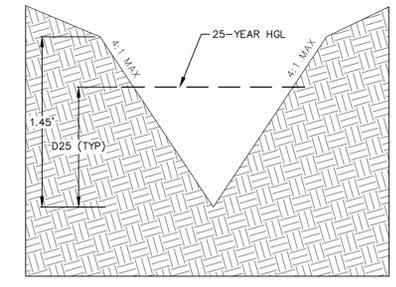
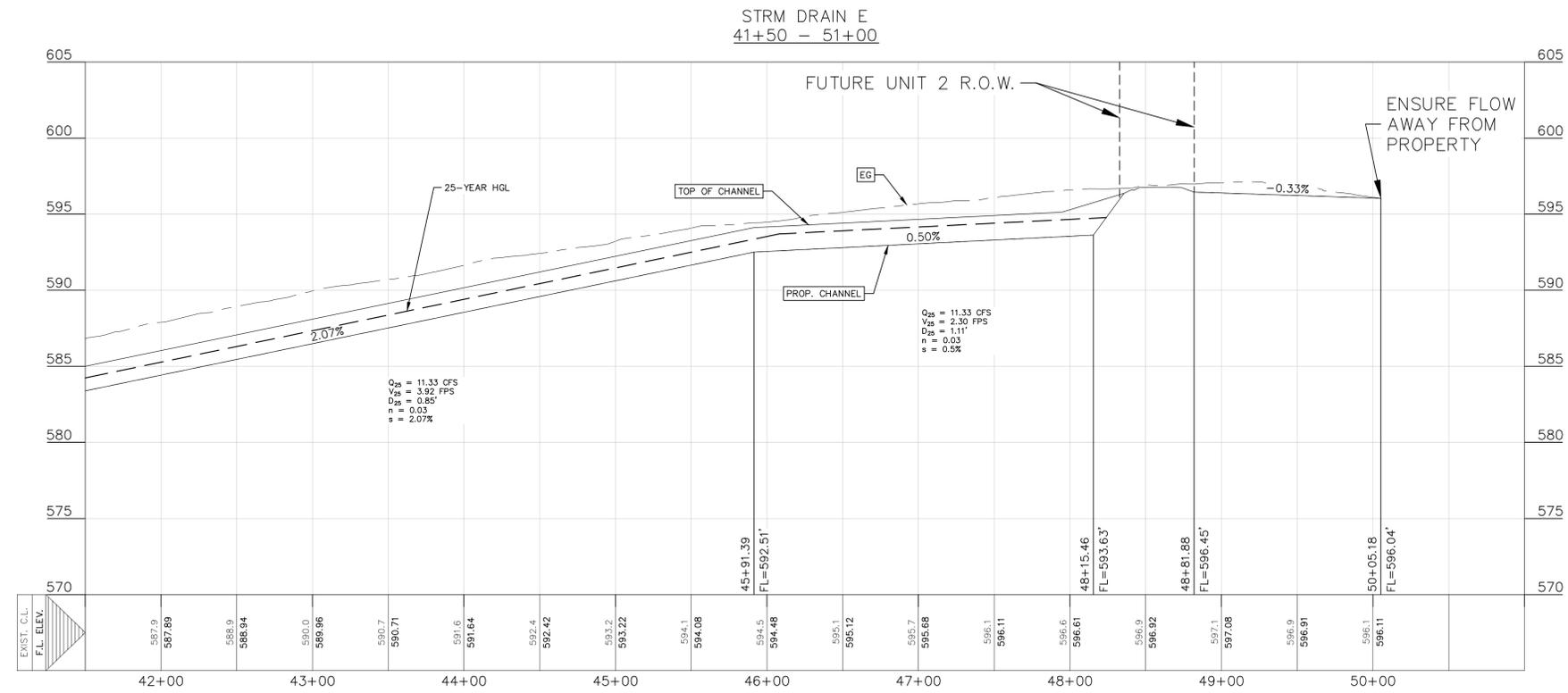
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1/29/2026

STORM DRAIN E STA- 41+50 TO END PLAN AND PROFILE
ROADWAY IMPROVEMENTS
 EWALD RD



REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

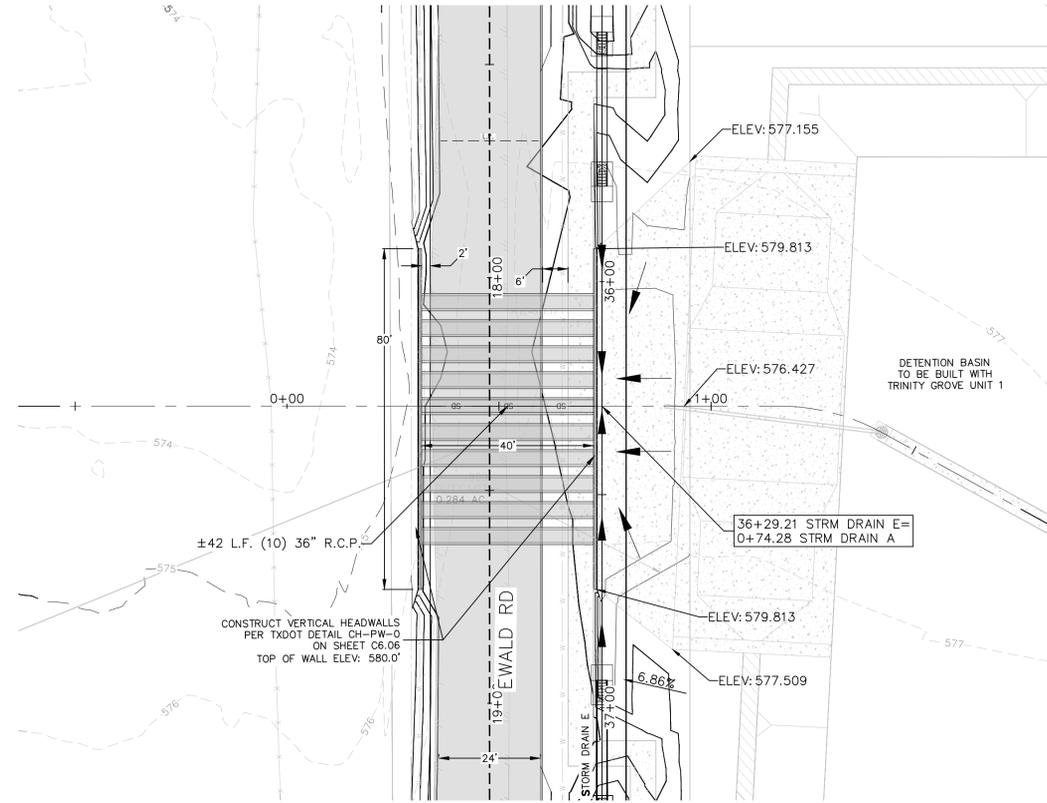
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NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
 DRAWN BY: **KP**
 DESIGNED BY: **AO**
 REVIEWED BY: **DB**

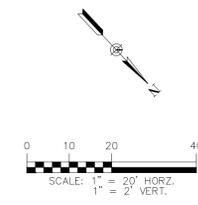
HMT PROJECT NO.: **011.041**
SHEET
C6.02

Drawing Name: N:\Projects\011 - RB Home\011.041 - Trinity Grove Unit 1\GDs - SH 46 AND EWALD\011.041_STRM.dwg User: cille-d Jan 29, 2026 - 4:50pm



LEGEND

	EXISTING CONTOURS
	PROPOSED CONTOURS
	B.L. BUILDING SETBACK LINE
	U.E. UTILITY EASEMENT
	D.E. DRAINAGE EASEMENT
	R.C.P. REINFORCED CONCRETE PIPE
	PROPOSED STORM DRAIN LINE
	UTILITY CROSSING



DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

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- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.

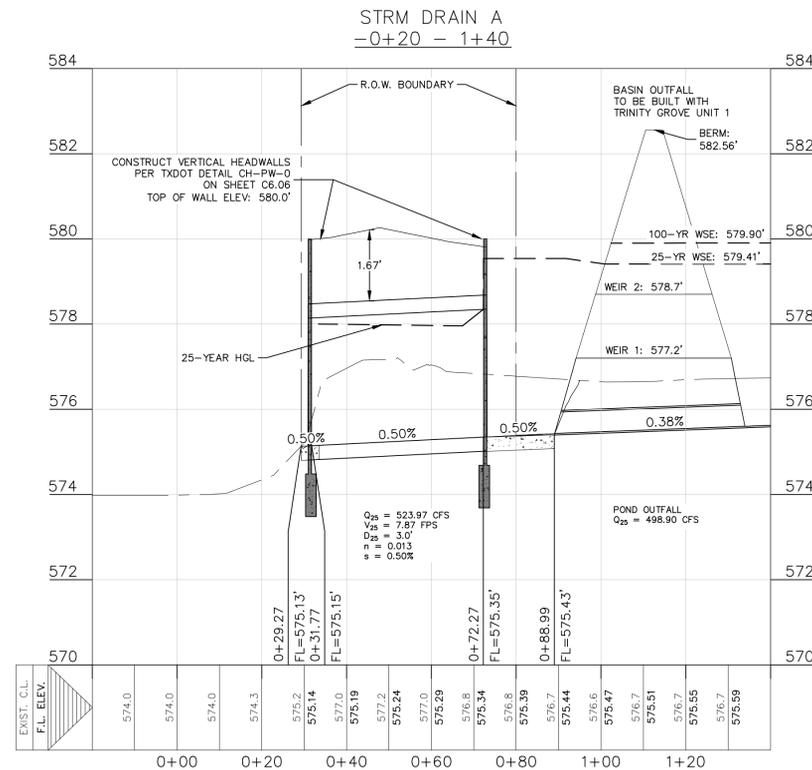
290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
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1/29/2026

**STORM DRAIN A
PLAN & PROFILE**

EWALD RD
ROADWAY IMPROVEMENTS



REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

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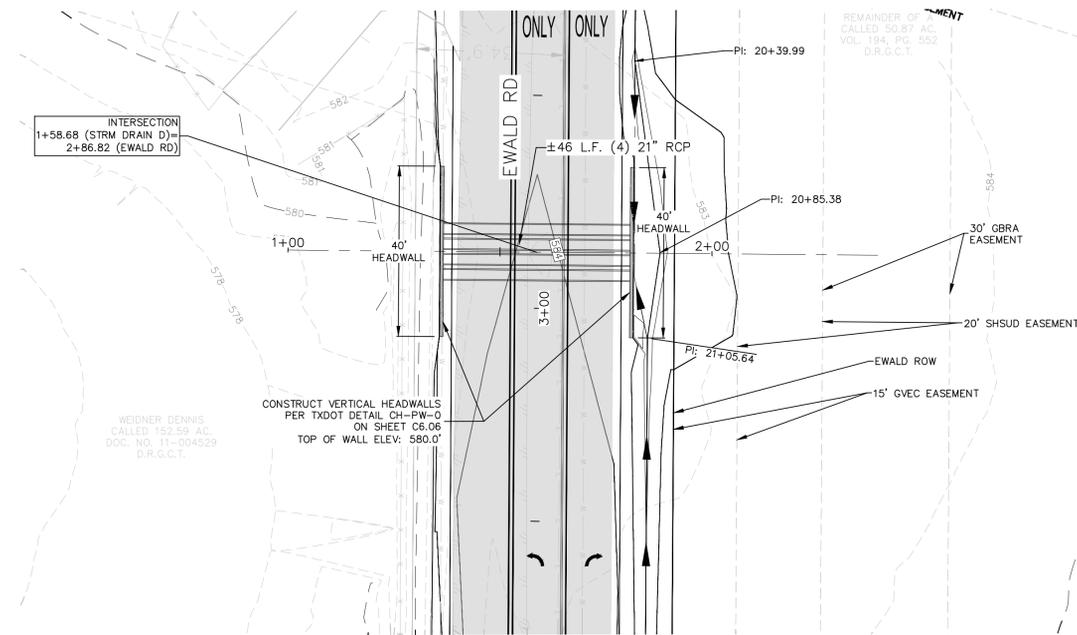
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DATE:	JANUARY 2026
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REVIEWED BY:	DB

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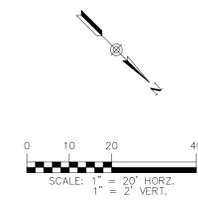
**SHEET
C6.03**

Drawing Name: N:\Projects\011 - RB Homes\011.041 - Tirdley Grove Unit 1\CDs - SH 46 AND EWALD\011.041_STRM.dwg User: elle-d Jan 29, 2026 - 4:50pm



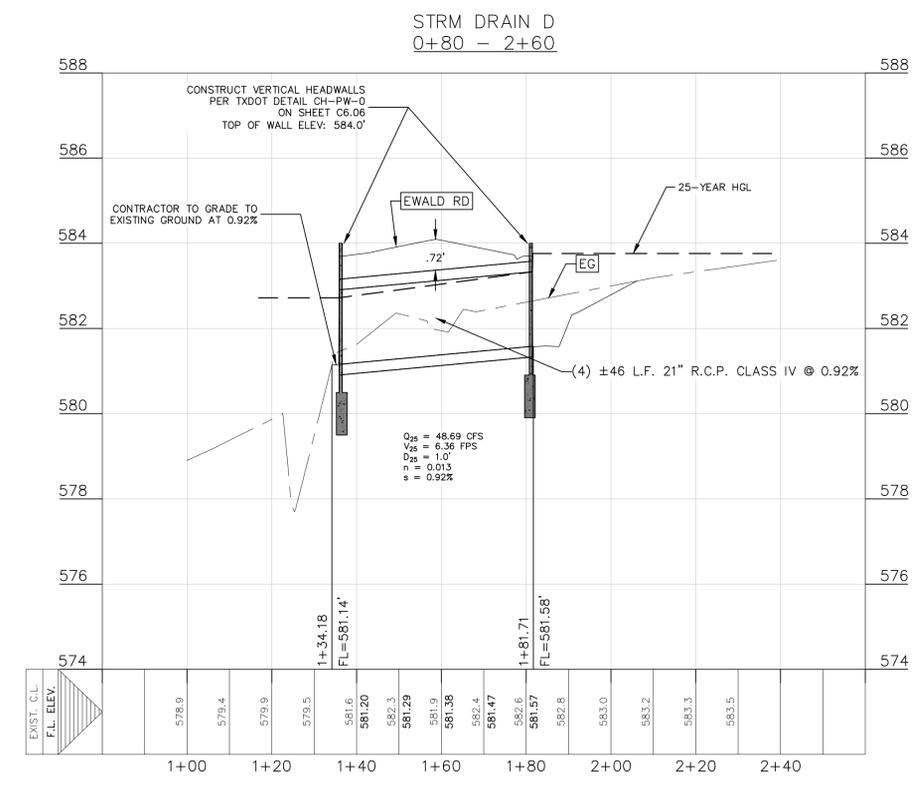
LEGEND

---	EXISTING CONTOURS
- - -	PROPOSED CONTOURS
---	B.L. BUILDING SETBACK LINE
---	U.E. UTILITY EASEMENT
---	D.E. DRAINAGE EASEMENT
---	R.C.P. REINFORCED CONCRETE PIPE
---	PROPOSED STORM DRAIN LINE
⊗	UTILITY CROSSING



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 - STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
 - MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.



REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPELS FIRM F-10961
TBPELS FIRM 10153600

HMT
ENGINEERING & SURVEYING



1/29/2026

**STORM DRAIN D
PLAN & PROFILE**

EWALD RD
ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

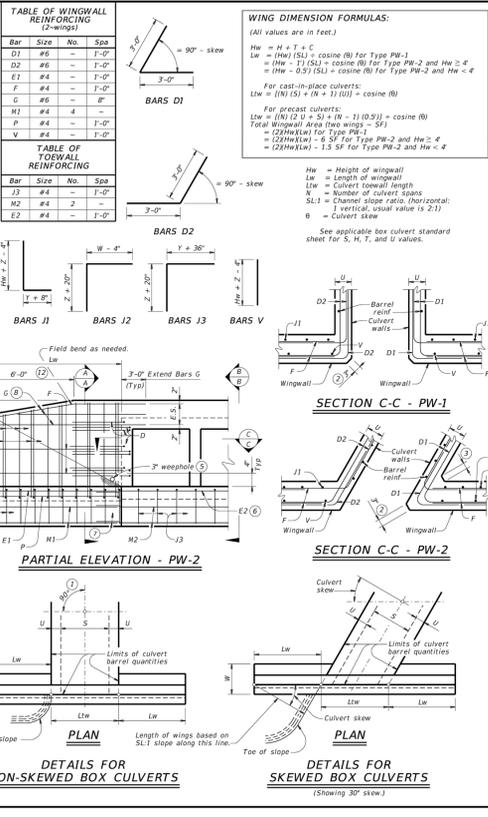
DATE: **JANUARY 2026**
DRAWN BY: **KP**
DESIGNED BY: **AO**
REVIEWED BY: **DB**

HMT PROJECT NO.:
011.041

SHEET
C6.04

TABLE OF DIMENSIONS AND REINFORCING STEEL (Wings for one structure only)

Dimensions	Variable Reinforcing		Estimated Quantities per Ft. of Wing (2-Wings)		Estimated Quantities per Ft. of Tonnell (1-Tonnell)	
	Bars J1	Bars J2	Reinf. (CY/Ft)	Conc. (CY/Ft)	Reinf. (CY/Ft)	Conc. (CY/Ft)
2'-0" 2'-10" 10'-0" 1'-0"	#4	#4	48.64	0.406	6.85	0.071
2'-0" 2'-10" 10'-0" 1'-0"	#4	#4	49.31	0.424	6.85	0.071
3'-0" 2'-10" 10'-0" 1'-0"	#4	#4	49.98	0.444	6.85	0.071
3'-0" 2'-10" 10'-0" 1'-0"	#4	#4	53.32	0.462	6.85	0.071
3'-0" 2'-10" 10'-0" 1'-0"	#4	#4	53.98	0.480	6.85	0.071
4'-0" 3'-2" 1'-2" 1'-0"	#4	#4	59.77	0.568	6.85	0.071
5'-0" 3'-0" 1'-2" 1'-0"	#4	#4	63.45	0.632	6.96	0.075
5'-0" 3'-0" 1'-2" 1'-0"	#4	#4	67.16	0.668	6.96	0.075
6'-0" 4'-4" 2'-0" 1'-4"	#4	#4	80.67	0.730	7.07	0.078
6'-0" 4'-4" 2'-0" 1'-4"	#4	#4	85.05	0.768	7.07	0.078
7'-0" 5'-0" 2'-3" 1'-0"	#4	#4	92.15	0.864	8.07	0.093
7'-0" 5'-0" 2'-3" 1'-0"	#4	#4	96.54	0.902	8.07	0.093
8'-0" 5'-0" 2'-3" 1'-0"	#4	#4	139.04	0.962	8.13	0.095
8'-0" 5'-0" 2'-3" 1'-0"	#4	#4	144.47	1.000	8.13	0.095
9'-0" 6'-0" 2'-10" 2'-2"	#4	#4	156.93	1.136	8.41	0.110
10'-0" 6'-5" 3'-0" 2'-5"	#4	#4	196.27	1.234	8.57	0.117
11'-0" 7'-2" 3'-0" 2'-0"	#4	#4	230.12	1.438	9.52	0.140
12'-0" 7'-8" 3'-0" 2'-11"	#4	#4	283.41	1.592	9.74	0.157
13'-0" 8'-2" 4'-0" 3'-1"	#4	#4	348.72	1.804	10.02	0.186
14'-0" 8'-10" 4'-0" 3'-5"	#4	#4	432.94	2.046	10.30	0.218
15'-0" 9'-0" 4'-10" 3'-0"	#4	#4	489.52	2.302	11.24	0.253
16'-0" 9'-11" 5'-0" 3'-11"	#4	#4	505.72	2.448	11.47	0.279



DESIGNER NOTES:

Type PW-1 can be used for all applications and must be used if railing is to be mounted to the wingwall. Type PW-2 can only be used for applications without a railing mounted to the wingwall.

MATERIAL NOTES:

Provide Class C concrete (f'c=3,600 psi). Provide Grade 60 reinforcing steel. Concrete galvanized reinforcing steel if required elsewhere in the plans.

GENERAL NOTES:

Designed in accordance with AASHTO LRFD Bridge Design Specifications. Depth of tonnell for wingwalls and culverts may be reduced or omitted when founded on solid rock, when directed by the Engineer. See Box Culvert Supplement (BCS) standard sheet for wingwall type and additional dimensions and information. Quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for the Contractor's information only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.

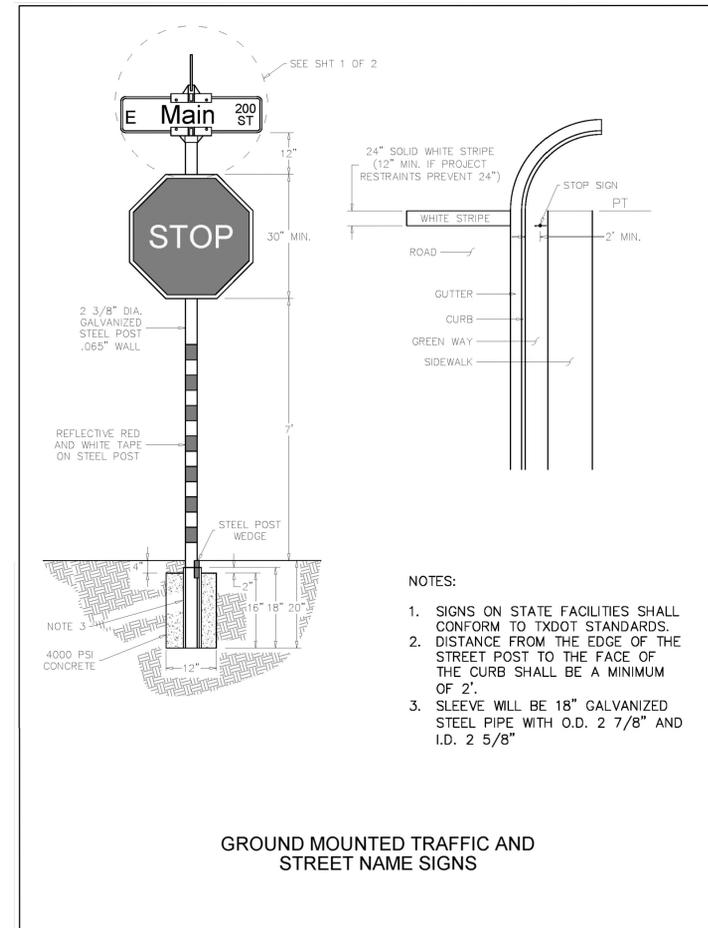
CONCRETE WINGWALLS WITH PARALLEL WINGS FOR BOX CULVERTS TYPES PW-1 AND PW-2

CD-PW-28ps	IN	GA	IN	GA	IN	GA	IN	GA	
CD-PW-28ps	IN	GA	IN	GA	IN	GA	IN	GA	
02/01	February 2025	CON	100	100	CON	100	100	CON	100
REV		DATE		DATE	DATE		DATE	DATE	
001		CON		CON		CON		CON	
002		CON		CON		CON		CON	
003		CON		CON		CON		CON	
004		CON		CON		CON		CON	
005		CON		CON		CON		CON	

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

Values for One Pipe	Values To Be Added For Each Pipe	
	Reinf. (CY)	Conc. (CY)
12'-0"	122	1.1
15'-0"	136	1.3
18'-0"	163	1.5
21'-0"	200	1.8
24'-0"	217	2.1
27'-0"	254	2.4
30'-0"	272	2.7
33'-0"	314	3.1
36'-0"	371	3.5
42'-0"	462	4.9
48'-0"	569	6.4
54'-0"	701	7.5
60'-0"	794	8.8
66'-0"	894	10.2
72'-0"	1,035	11.7
78'-0"	1,175	13.6
84'-0"	1,316	15.9
90'-0"	1,458	18.2
96'-0"	1,601	20.7
102'-0"	1,745	23.2
108'-0"	1,890	25.9
114'-0"	2,036	28.7
120'-0"	2,183	31.6
126'-0"	2,331	34.6
132'-0"	2,480	37.7
138'-0"	2,630	40.9
144'-0"	2,781	44.2
150'-0"	2,933	47.6
156'-0"	3,086	51.1
162'-0"	3,240	54.7
168'-0"	3,395	58.4
174'-0"	3,551	62.2
180'-0"	3,708	66.1
186'-0"	3,866	70.1
192'-0"	4,025	74.2
198'-0"	4,185	78.4
204'-0"	4,346	82.7
210'-0"	4,508	87.1
216'-0"	4,671	91.6
222'-0"	4,835	96.2
228'-0"	5,000	100.9
234'-0"	5,166	105.7
240'-0"	5,333	110.6
246'-0"	5,501	115.6
252'-0"	5,670	120.7
258'-0"	5,840	125.9
264'-0"	6,011	131.2
270'-0"	6,183	136.6
276'-0"	6,356	142.1
282'-0"	6,530	147.7
288'-0"	6,705	153.4
294'-0"	6,881	159.2
300'-0"	7,058	165.1
306'-0"	7,236	171.1
312'-0"	7,415	177.2
318'-0"	7,595	183.4
324'-0"	7,776	189.7
330'-0"	7,958	196.1
336'-0"	8,141	202.6
342'-0"	8,325	209.2
348'-0"	8,510	215.9
354'-0"	8,696	222.7
360'-0"	8,883	229.6
366'-0"	9,071	236.6
372'-0"	9,260	243.7
378'-0"	9,450	250.9
384'-0"	9,641	258.2
390'-0"	9,833	265.6
396'-0"	10,026	273.1
402'-0"	10,220	280.7
408'-0"	10,415	288.4
414'-0"	10,611	296.2
420'-0"	10,808	304.1
426'-0"	11,006	312.1
432'-0"	11,205	320.2
438'-0"	11,405	328.4
444'-0"	11,606	336.7
450'-0"	11,808	345.1
456'-0"	12,011	353.6
462'-0"	12,215	362.2
468'-0"	12,420	370.9
474'-0"	12,626	379.7
480'-0"	12,833	388.6
486'-0"	13,041	397.6
492'-0"	13,250	406.7
498'-0"	13,460	415.9
504'-0"	13,671	425.2
510'-0"	13,883	434.6
516'-0"	14,096	444.1
522'-0"	14,310	453.7
528'-0"	14,525	463.4
534'-0"	14,741	473.2
540'-0"	14,958	483.1
546'-0"	15,176	493.1
552'-0"	15,395	503.2
558'-0"	15,615	513.4
564'-0"	15,836	523.7
570'-0"	16,058	534.1
576'-0"	16,281	544.6
582'-0"	16,505	555.2
588'-0"	16,730	565.9
594'-0"	16,956	576.7
600'-0"	17,183	587.6
606'-0"	17,411	598.6
612'-0"	17,640	609.7
618'-0"	17,870	620.9
624'-0"	18,101	632.2
630'-0"	18,333	643.6
636'-0"	18,566	655.1
642'-0"	18,800	666.7
648'-0"	19,035	678.4
654'-0"	19,271	690.2
660'-0"	19,508	702.1
666'-0"	19,746	714.1
672'-0"	19,985	726.2
678'-0"	20,225	738.4
684'-0"	20,466	750.7
690'-0"	20,708	763.1
696'-0"	20,951	775.6
702'-0"	21,195	788.2
708'-0"	21,440	800.9
714'-0"	21,686	813.7
720'-0"	21,933	826.6
726'-0"	22,181	839.6
732'-0"	22,430	852.7
738'-0"	22,680	865.9
744'-0"	22,931	879.2
750'-0"	23,183	892.6
756'-0"	23,436	906.1
762'-0"	23,690	919.7
768'-0"	23,945	933.4
774'-0"	24,201	947.2
780'-0"	24,458	961.1
786'-0"	24,716	975.1
792'-0"	24,975	989.2
798'-0"	25,235	1,003.4
804'-0"	25,496	1,017.7
810'-0"	25,758	1,032.1
816'-0"	26,021	1,046.6
822'-0"	26,285	1,061.2
828'-0"	26,550	1,075.9
834'-0"	26,816	1,090.7
840'-0"	27,083	1,105.6
846'-0"	27,351	1,120.6
852'-0"	27,620	1,135.7
858'-0"	27,890	1,150.9
864'-0"	28,161	1,166.2
870'-0"	28,433	1,181.6
876'-0"	28,706	1,197.1
882'-0"	28,980	1,212.7
888'-0"	29,255	1,228.4
894'-0"	29,531	1,244.2
900'-0"	29,808	1,260.1
906'-0"	30,086	1,276.1
912'-0"	30,365	1,292.2
918'-0"	30,645	1,308.4
924'-0"	30,926	1,324.7
930'-0"	31,208	1,341.1
936'-0"	31,491	1,357.6
942'-0"	31,775	1,374.2
948'-0"	32,060	1,390.9
954'-0"	32,346	1,407.7
960'-0"	32,633	1,424.6
966'-0"	32,921	1,441.6
972'-0"	33,210	1,458.7
978'-0"	33,500	1,475.9
984'-0"	33,791	1,493.2
990'-0"	34,083	1,510.6
996'-0"	34,376	1,528.1
1002'-0"	34,670	1,545.7
1008'-0"	34,965	1,563.4
1014'-0"	35,261	1,581.2
1020'-0"	35,558	1,599.1
1026'-0"	35,856	1,617.1
1032'-0"	36,155	1,635.2
1038'-0"	36,455	1,653.4
1044'-0"	36,756	1,671.7
1050'-0"	37,058	1,690.1
1056'-0"	37,361	1,708.6
1062'-0"	37,665	1,727.2
1068'-0"	37,970	1,745.9
1074'-0"	38,276	1,764.7
1080'-0"	38,583	1,783.6
1086'-0"	38,891	1,802.6
1092'-0"	39,200	1,821.7
1098'-0"	39,510	1,840.9
1104'-0"	39,821	1,860.2
1110'-0"	40,133	1,879.6
1116'-0"	40,446	1,899.1
1122'-0"	40,760	1,918.7
1128'-0"	41,075	1,938.4
1134'-0"	41,391	1,958.2
1140'-0"	41,708	1,978.1
1146'-0"	42,026	1,998.1
1152'-0"	42,345	2,018.2
1158'-0"	42,665	2,038.4
1164'-0"	42,986	2,058.7
1170'-0"	43,308	2,079.1
1176'-0"	43,631	2,099.6
1182'-0"	43,955	2,120.2
1188'-0"	44,280	2,140.9
1194'-0"	44,606	2,161.7
1200'-0"	44,933	2,182.6
1206'-0"	45,261	2,203.6
1212'-0"	45,590	2,224.7
1218'-0"	45,920	2,245.9
1224'-0"	46,251	2,267.2
1230'-0"	46,583	2,288.6
1236'-0"	46,916	2,310.1
1242'-0"	47,250	2,331.7
1248'-0"	47,585	2,353.4
1254'-0"	47,921	2,375.2
1260'-0"	48,258	2,397.1
1266'-0"	48,596	2,419.1
1272'-0"	48,935	2,441.2
1278'-0"	49,275	2,463.4
1284'-0"	49,616	2,485.7
1290'-0"	49,958	2,508.1
1296'-0"	50,301	2,530.6
1302'-0"	50,645	2,553.2
1308'-0"	50,990	2,575.9
1314'-0"	51,336	2,598.7
1320'-0"	51,683	2,621.6
1326'-0"	52,031	2,644.6
1332'-0"	52,380	2,667.7
1338'-0"	52,730	2,690.9
1344'-0"	53,081	2,714.2
1350'-0"	53,433	2,737.6
1356'-0"	53,786	2,761.1
1362'-0"	54,140	2,784.7

Drawing Name: N:_Projects\011 - RB Home\011.041 - Tirdly Grove Unit 1\GDs - SH 46 AND EWALD\011.041_SITE DETAILS.dwg User: ellis-d Jan 29, 2026 - 4:50pm



1/29/2026

SITE DETAILS
EWALD RD
ROADWAY IMPROVEMENTS

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: **JANUARY 2026**
DRAWN BY: **KP**
DESIGNED BY: **AO**
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