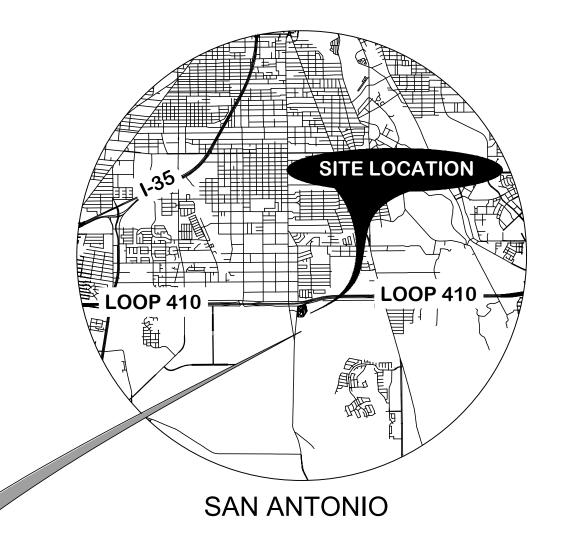
CONSTRUCTION DOCUMENTS

FOR THE DEVELOPMENT OF

SAPD ACADEMY TRACK PAVEMENT

SITUATED WITHIN THE COUNTY OF BEXAR, TEXAS OCTOBER 2024



BEXAR

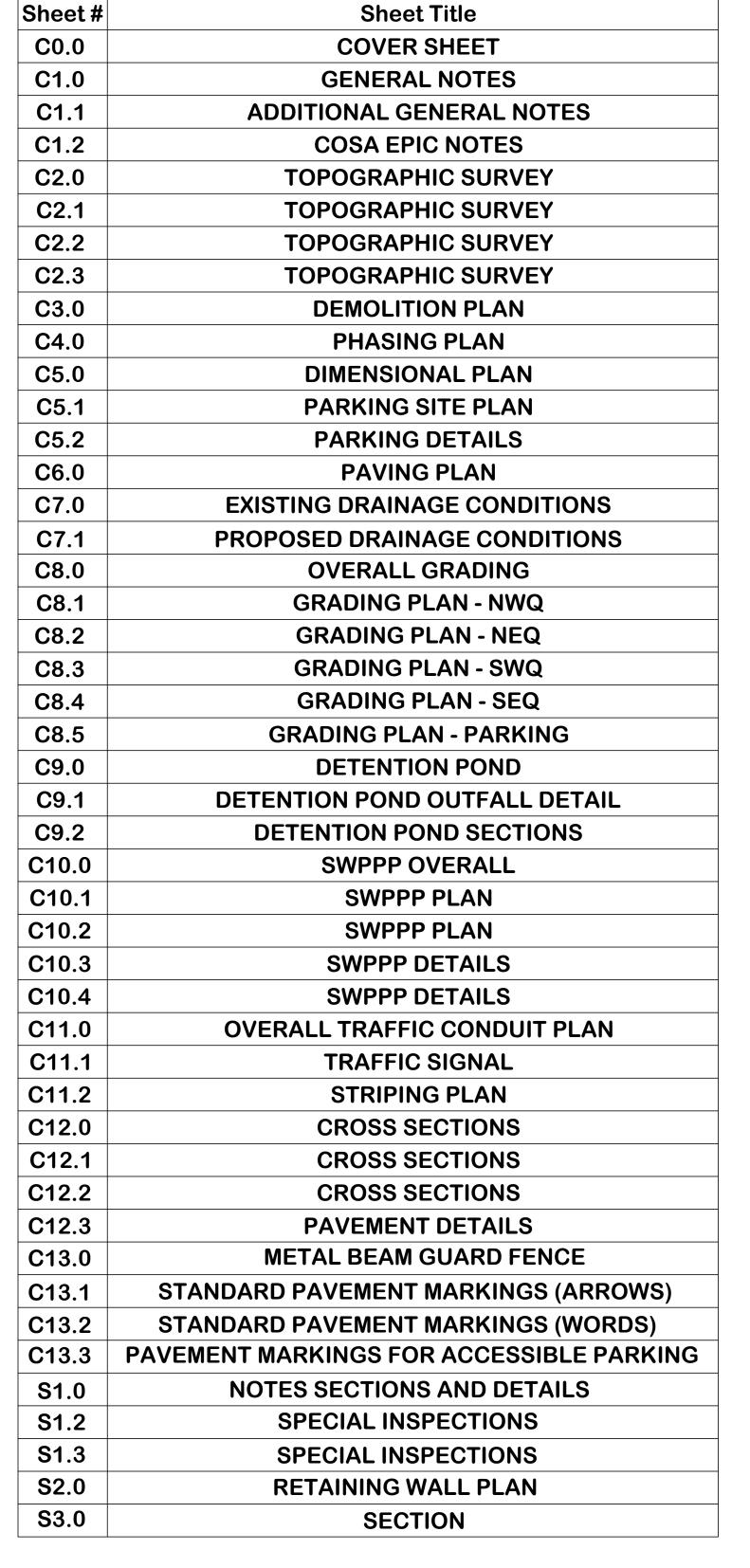
COUNTY

STATE

TEXAS







Sheet List Table



SAPD ACADEMY TRACK



ENGINEERING CO., INC.

PREPARED BY SLAY ENGINEERING CO., INC.

CIVIL ENGINEERING - SURVEYING - CONSULTING 123 ALTGELT AVENUE SAN ANTONIO, TEXAS 78201 TELEPHONE (210) 734-4388 SLAYENGINEERING.COM TBPE FIRM REGISTRATION No. F1901

S.E.C. JOB No. 22-069





- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.
- 2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- 3. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- 6. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 8. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- 9. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY—EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION: SAN ANTONIO WATER SYSTEM (SAWS) 233—2010 BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET) 354—6538 / 357—5741 COSA DRAINAGE 207—8048 COSA SIGNAL OPERATIONS 207—7720 / 207—7765 TEXAS STATE WIDE ONE CALL LOCATOR 1—800—344—8377 CITY PUBLIC SERVICE ENERGY TIME WARNER AT&T MCI
- 11. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 12. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- 13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100—YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
- 14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.
- 15. IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY. IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT. IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.
- 16. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C.O.S.A. SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C.O.S.A. APPROVAL. THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
- 17. CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE.
- 18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL (TELEPHONE NOS: (210) 362-2155 OR (210) 362-2096). THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA.

TREE PROTECTION ND PRESERVATION GENERAL NOTES

- 18. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- 19. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX—INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
- 20. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- 21. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- 22. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
- 23. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- 24. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
- 25. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
- 26. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
- 27. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT—OF—WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A—300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21—171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
- 28. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
- 29. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
- 30. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- 31. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
- 32. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
- 33. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

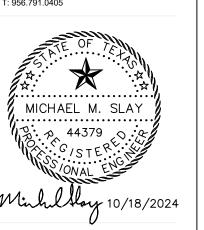
ACCESSIBILITY REQUIREMENTS

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
- 2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL—WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
- 3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
- 4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.



SAN ANTONIO
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T: 210, 736, 3009

LAREDO 9901 McPherson Avenue, a Laredo, Texas 78045



ACADEMY TRACK PAVEMEN

Project NO.: 22028

Date: 08/30/2024

Revisions: Stockpile Location - 12/3/24

Drainage Comments - 2/24/25

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GENERAL NOTES

1.0 CONTRACTOR REGULATIONS

- 1.1 SPECIFICATIONS ALL PHASES OF WORK UNDER THIS CONTRACT SHALL BE WITH STRICT ADHERENCE TO THE ACCOMPANYING SPECIFICATIONS AND THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" PUBLISHED BY THE CITY OF SAN ANTONIO. WHERE DIFFERENCES OCCUR BETWEEN THESE TWO DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL DECISIONS OR JUDGMENTS ON INTERPRETATION OF THE SPECIFICATIONS AND/OR ON MATTERS NOT SPECIFICALLY COVERED BY THE ABOVE DOCUMENTS SHALL BE MADE BY THE ENGINEER.
- 1.2. CODE COMPLIANCE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO. BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THIS PROJECT.
- 1.3 PERMITS CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR CONSTRUCTION AND SHALL NOTIFY ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION.
- 1.4 CONTRACTOR RESPONSIBILITY CONTRACTOR AGREES THAT HE SHALL 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 NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER 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.
- 1.5 WASTE MATERIAL ALL WASTE MATERIAL, EXCEPT MILLINGS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE RIGHT—OF—WAY AND TO PRIVATE PROPERTY WHERE THE CONTRACTOR HAS THE CONSENT OF THE OWNERS. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING NATURAL DRAINAGE COURSES.
- 1.6 INCIDENTAL WORK NO EXTRA PAY SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- 1.7 SOIL CONDITIONS NO ADDITIONAL PAYMENT SHALL BE MADE FOR ROCK, SAND, GRAVEL, OR OTHER UNSTABLE CONDITIONS ENCOUNTERED IN ANY WORK IMPLIED BY THESE DRAWINGS. THE CONTRACTOR MAY REVIEW THE GEOTECHNICAL REPORT FOR THE PROJECT IN ORDER TO OBTAIN KNOWLEDGE OF THE SUBSURFACE CONDITIONS AS LOCATED IN THE SPECIFICATIONS.
- 1.8 EXISTING FEATURES PAVEMENTS, CURB, WALK, CONCRETE STRUCTURES THAT ARE WITHIN THE NEW CONSTRUCTION LIMITS THAT ARE TO BE REPLACED SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST. DEMOLITION OF EXISTING FEATURES AS NECESSARY FOR THE CONSTRUCTION OF NEW WORK SHALL NOT BE CONSIDERED AS EXTRA. DEMOLITION WORK AS REQUIRED SHALL BE SUBSIDIARY TO THE NEW CONSTRUCTION WORK.
- 1.9. CONSTRUCTION STAKING ALL CONSTRUCTION STAKING AND BENCHMARK TRANSFERS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

2.0. UTILITIES

- 2.1 ABOVE GROUND UTILITIES EXISTING ABOVE GROUND UTILITIES HAVE BEEN PLOTTED BY DIRECT FIELD INVESTIGATION.
- 2.2 RESPONSIBILITY FOR UTILITIES CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE GROUND OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON DRAWINGS. DEAD UTILITY LINES SHALL BE SUITABLY CAPPED AT THE LIMITS OF THE PROJECT. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE CITY OR RESPECTIVE UTILITY AT THE CONTRACTOR'S EXPENSE.
- 2.3 ABANDONED UTILITIES ALL ABANDONED UTILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE REMOVED AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
- 2.4 GAS VALVES DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CITY PUBLIC SERVICE MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 2.5 UTILITY LOCATES CONTRACTOR SHALL CALL FOR UTILITY LOCATES BEFORE BEGINNING ANY EXCAVATION: 1-800-344-8377 OR 811.

3.0 CONSTRUCTION MATERIALS

- 3.1 CONCRETE CONCRETE SHALL BE CLASS "A" ACCORDING TO ITEM 300 OF THE CITY'S STANDARD SPECIFICATIONS WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE SPECIFIED ON PLANS.
- 3.2 REINFORCING STEEL REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL HAVE DEFORMATIONS CONFORMING TO ASTM A-615 AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A-615.....GRADE 40.....#3 BARS AND DOWELS A-185.....WELDED WIRE FABRIC A-615.....GRADE 60.....ALL OTHER REINFORCING

- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- 3.3 REBAR SIZES #3 BARS SHALL NOT BE USED ON THIS PROJECT. WALK SHALL BE REINFORCED WITH #4 BARS @ 18" OCBW. DRIVEWAYS SHALL BE REINFORCED WITH #4 BARS @ 12" OCBW, AS A MINIMUM.
- 3.4 WIRE WELDED FABRIC WELDED WIRE FABRIC SHALL NOT BE USED ON THIS PROJECT.
- 3.5 HMAC THE HOT MIX ASPHALTIC CONCRETE SURFACE COURSE SHALL BE PLANT MIXED, HOT LAID TYPE D, MEETING THE MASTER SPECIFICATIONS REQUIREMENTS OF 2014 TxDOT STANDARD SPECIFICATIONS ITEM 341, COMPACTED TO BETWEEN 92 AND 97 PERCENT OF THE MAXIMUM THEORETICAL DENSITY AS MEASURED BY ASTM D 2041.
- 3.6 FLEXIBLE BASE "FLEXIBLE BASE" SHALL BE TYPE A, GRADE 2, ACCORDING TO TXDOT ITEM 247, COMPACTED TO 95% MODIFIED DENSITY ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR) AND TESTED BY ASTM D-2922 (NUCLEAR METHOD). EXISTING BASE MAY BE REUSED IF MATERIAL MEETS SPECIFICATION REQUIREMENTS.
- 3.7 ASPHALT TREATED BASE ASPHALT TREATED BASE SHALL MEET THE REQUIREMENTS OF 2014 TxDOT STANDARD SPECIFICATIONS (ITEM 344, GRADE 1 OR 2). THE MATERIAL SHALL BE COMPACTED TO AT LEAST 96 PERCENT OF THE MAXIMUM MOLDED GYRATORY DENSITY DETERMINED IN ACCORDANCE WITH TEX 126 E.
- 3.8 6" LIME TREATED SUBGRADE 6" LIME TREATED SUBGRADE SHALL BE MODIFIED WITH HYDRATED LIME IN ACCORDANCE WITH 2014 TXDOT STANDARD SPECIFICATIONS (ITEM 2.60), AT 24 POUNDS PER HYDRATED LIME PER SQUARE YARD FOR A 6-INCH TREATMENT DEPTH. HOWEVER, THE ACTUAL PERCENTAGE SHALL BE DETERMINED BY LABORATORY TESTS ON SAMPLES OF CLAY SUBGRADE PRIOR TO CONSTRUCTION. 6" LIME TREATED SUBGRADE SHALL BE COMPACTED TO 95% DENSITY ACCORDING TO ASTM D-698 AT A MOISTURE CONTENT RANGING FROM OPTIMUM AND 4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT, AND TESTED BY ASTM D-2922 (NUCLEAR METHOD).
- 3.9 PRIME COAT "PRIME COAT" SHALL BE MC-30 APPLIED AT A RATE OF 0.2 GAL. /S.Y. MAXIMUM.
- 3.10 TACK COAT "TACK COAT" SHALL BE RC-250 APPLIED AT A RATE OF 0.1 GAL./S.Y. MAXIMUM.

4.0 GRADING

- 4.1. MATCH EXISTING "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
- 4.2 ELEVATION VERIFICATION CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. TEMPORARY BENCHMARKS MIGHT BE MOVED OR DAMAGED DURING CONSTRUCTION; THEREFORE, TWO OR MORE TEMPORARY BENCHMARKS SHALL BE BACK SIGHTED TO VERIFY HEIGHT—OF—INSTRUMENT. THE START OF CONSTRUCTION BY THE CONTRACTOR SIGNIFIES THAT EXISTING SITE CONDITIONS HAVE BEEN VERIFIED AND ACCEPTED. ALL CONSTRUCTION STAKING AND BENCHMARK TRANSFERS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 4.3 ELEVATION TOLERANCES THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE GRADING ELEVATIONS ACCORDING TO THE FOLLOWING TOLERANCES:

PAD ELEVATIONS ± 0.10 FOOT PAVEMENT ± 0.05 FOOT CURBS, GUTTERS, AND ALL DRAINAGE FACILITIES ± 0.02 FOOT LANDSCAPING ± 0.10 FOOT

IF ANY ABOVE MENTIONED ELEVATION IS FOUND TO BE OUT OF LEVEL BEYOND

THE STATED TOLERANCE AFTER CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER. ALL

EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

- **4.4 LIFTS -** ALL STRUCTURAL FILL (FILL THAT PROVIDES LOAD BEARING SUPPORT) SHALL BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT INCHES (8") LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED SIX INCHES (6").
- **4.5 COMPACTION -** ALL SELECT STRUCTURAL FILL SHALL BE MOISTURE CONDITIONED TO BETWEEN MINUS TWO (-2) AND PLUS FOUR (+3) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT, AND THEN COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D 1557.
- 4.6 PLASTICITY IF SOILS ARE TO BE IMPORTED FOR GRADE ADJUSTMENTS, THE SOILS SHALL NOT HAVE A PLASTICITY INDEX GREATER THAN 20 PERCENT.
- 4.7 SOIL QUALITY THE SELECT FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL AND DEBRIS AND SHALL NOT CONTAIN STONES LARGER THAN THREE INCHES (3") IN DIAMETER OR WIDTH.

5.0 CONSTRUCTION ITEMS

- 5.1 **DIMENSIONAL TIES -** DIMENSIONAL TIES TO CURB LINES ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- 5.2 TYPE A BEDDING TYPE A BEDDING SHALL BE USED FOR RIGID PIPE, I.E., CLAY, CONCRETE, DUCTILE IRON, CAST IRON AND PRESTRESSED CYLINDER PIPE UNDER STABLE TRENCH CONDITIONS.
- 5.3 EXISTING FEATURES DRIVEWAYS, WALKS, RETAINING WALLS AND ASPHALT PAVEMENT OR ANY OTHER EXISTING FEATURE SHALL BE DEMOLISHED AND REMOVED WHERE NECESSARY FOR NEW CONSTRUCTION. VERIFY DEMOLITION WITH ENGINEER PRIOR TO BEGINNING DEMOLITION.

6.0 ALL CONTACTS

6.1 ENGINEER - CONTRACTOR SHALL CONTACT THE ENGINEER AT 210-734-4388 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK FOR WHICH THE SITE VISIT IS DESIRED. COORDINATE ALL MATERIAL TESTING WITH THE OWNERS HIRED TESTING COMPANY.

7.0 MISCELLANEOUS

- 7.1 CONSTRUCTION SIGNAGE BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND GENERALLY BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. THE SIGNS SHALL BE COORDINATED WITH SEQUENCE OF CONSTRUCTION AND DETOUR PLAN. DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC. TRAFFIC SIGNS SHALL BE REMOVED AND REPLACED IN KIND WITH NEW POST AND SIGNS.
- 7.2 PAVEMENT MARKINGS STRIPING SHALL BE USED TO INDICATE PARKING SPACES, NO-PARKING AREAS, AND CROSSWALKS. PARKING SPACES SHALL BE INDICATED BY FOUR INCH (4") PAINTED WHITE STRIPES, NINE FEET (9') ON CENTER. NO-PARKING AREAS SHALL BE NOTED BY 4 INCH WHITE LINES WITH TWENTY-FOUR INCHES (24") SEPARATION, PAINTED DIAGONALLY ACROSS THE AREA. STOP LIMIT LINES SHALL BE 2 FEET WIDE, WHITE STRIPES, PERPENDICULAR TO TRAFFIC LANES.

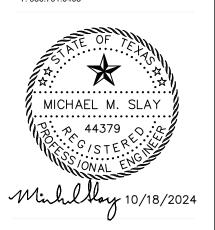
8.0 CONSTRUCTION YARD

8.1 CONSTRUCTION YARD - CONTRACTOR SHALL VERIFY WITH OWNER ABOUT USE OF SITE AS CONSTRUCTION YARD. SITE MUST BE RETURNED TO PRE—CONSTRUCTION CONDITIONS OR BETTER.

ARCHITECTURE

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123 Altgelt Avenue
San Antonio, Texas 78201
T: 210.736.3009

LAREDO
9901 McPherson Avenue, #104
Laredo, Texas 78045
T: 956.731 0405



NSTRUCTION DOCUMENTS ACADEMY TRACK PAVEMEN

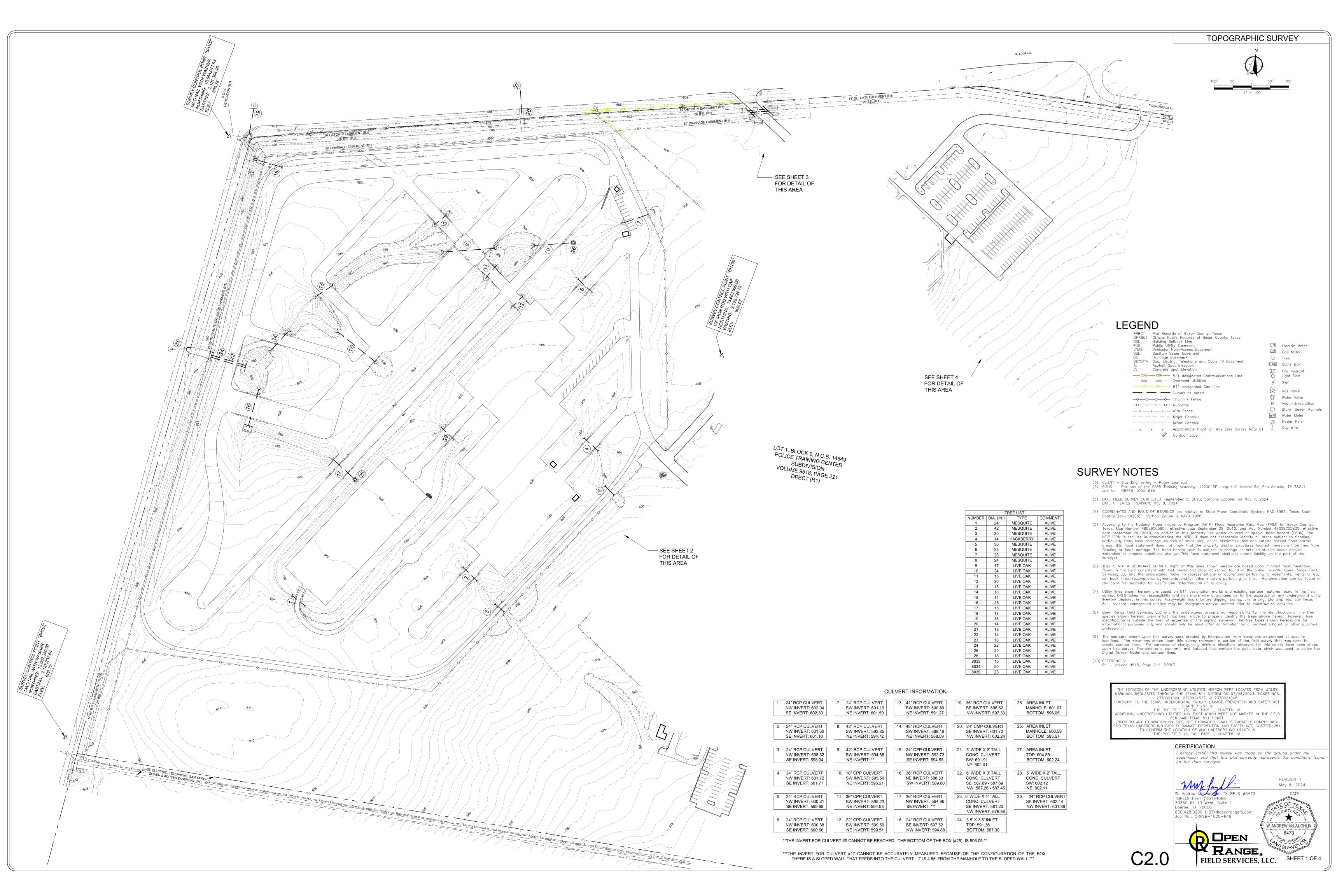
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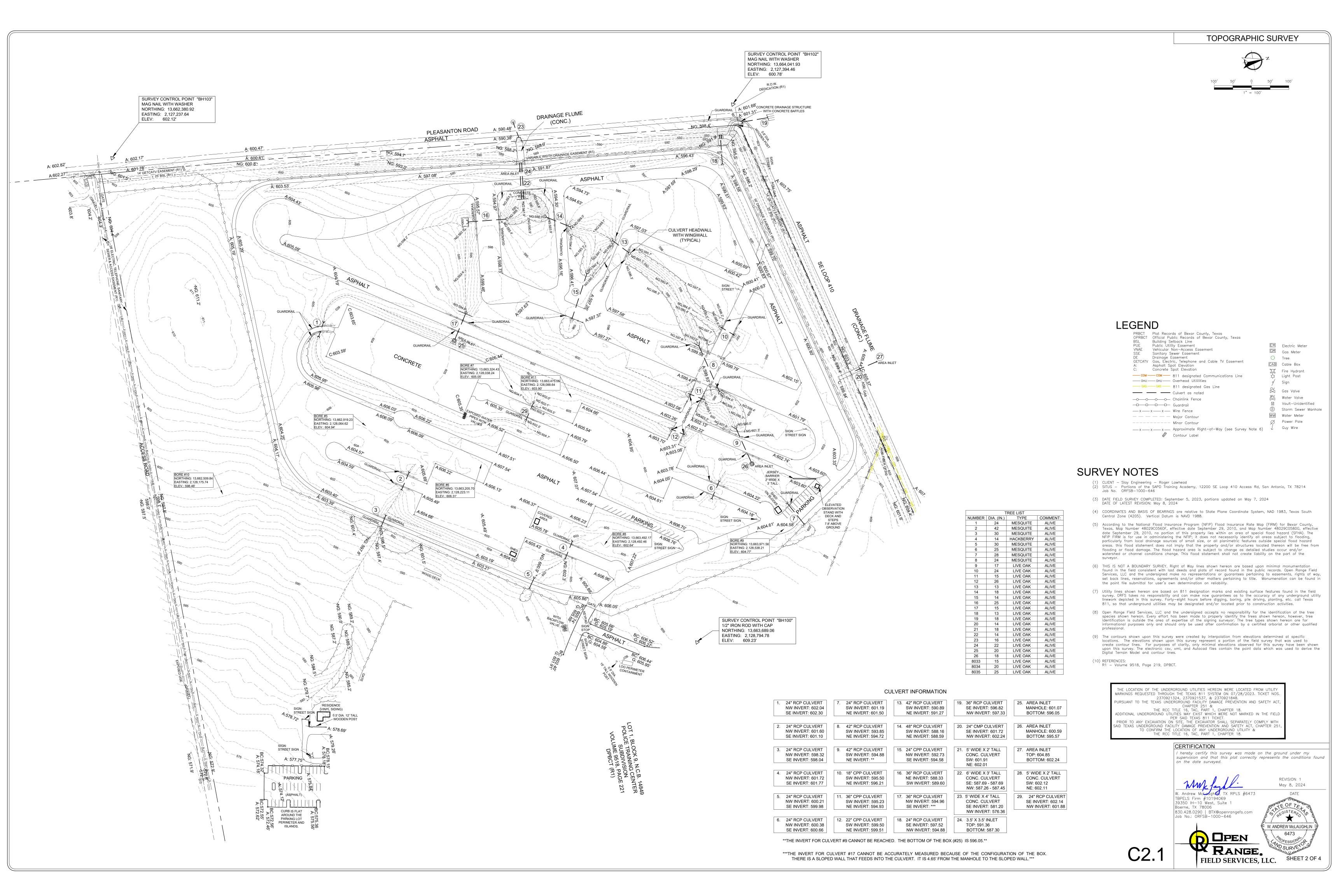
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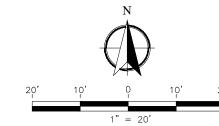
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I. STORMWATER POLLUTION PR	REVENTION—CLEAN WATER A	CT SECTION 402	III. CULTURAL RESOURCES		VI. HAZARDOUS MATERIALS OR C	ONTAMINATION ISSUES
Discharge Permit or Construction or more acres distrubed soil. Ferosion and sedimentation in ac	nation System (TPDES) TXR 150000 n General Permit (CGP) required fo Projects with any disturbed soil mu scordance with Item 540. recieve discharges from this projec	or projects with 1 ust protect for	Preservation Act, as amended in 196 encountered during construction worl	tiquities Code of Texas and/or the National Historic 56. If a previously unidentified archeological site is k, activities in the vicinity shall be stopped st (210-207-5421) and/or the SHPO notified.	hazardous materials by conducting safety making workers aware of potential hazard	Act (the Act) for personnel who will be working with meetings prior to beginning construction and disconstruction are ent appropiate for any hazardous materials used.
be notified prior to construction	activities.		No Action Required	Required Action	Obtain and keep on—site Safety Data Sh	
No Action Required	Required Action		Action No.			but are not limited to the following categories: chemical additives, fuels and concrete curing
accordance with TPDES Per 2. Comply with the Storm Wa necessary to control pollut 3. Post Construction Site Not accessible to the public ar Environmental Protection A	on by controlling erosion and seding the trail of the tra	P) and revise when on or near the site, ental Quality (TCEQ),	1. If a historic resource (concrete fixture, tile, masonry, etc.) is f	found that is not in the plans or ed, contact the Office of Historic	compounds or additives. Provide protected products which may be hazardous. Maintain an adequate supply of on—site In the event of a spill, take actions to rain accordance with safe work practices, immediately. The Contractor shall be rest of all product spills.	d storage, off bare ground and covered, for ain product labelling as required by the Act. spill response materials, as indicated in the SDS. nitigate the spill as indicated in the SDS, and contact the District Spill Coordinator consible for the proper containment and cleanup
[see COSA Ordinance No. 0	019-02-14-0123, Sec. 34-805(q)].			Contact the COSA Inspector if any of th * Dead or distressed vegetation (not	
	pecific locations (PSL's) increase c ractor shall submit Notice of Inten		IV. VEGETATION RESOURCES		 * Trash piles, drums, canister, barre * Undesirable smells or odors 	
the COSA Inspector.				extent practical. Contractor must adhere	* Evidence of leaching or seepage o	f substances
Note: If amount of soil disturba	ance changes, permit requirements	may change.	·	rements Specs 162,164, 192, 193, 506, with requirements for invasive species,	Hazardous Materials or Contamination	Issues Specific to this Project:
			beneficial landscaping, and tree/br	·	│ │ │ │ │ │ │	Required Action
	MS, WATERBODIES AND WETL	ANDS CLEAN WATER	│ No Action Required	Required Action		
ACT SECTIONS 401 AND			No Action Required	M Wedanied Metion	Action No.	
	(USACE) Permit required for filling, Iny potential USACE jurisdictional w		Action No.		1.	
such as, rivers, creeks, strean	ms, or wetlands.		1. Ensure that a tree permit is in	place for this project, if required.	2.	
	o all of the terms and conditions	associated with			3.	
the following permit(s):				tigation plan provided in the design tions or concerns, please contact		
No Permit Required Nationwide Remit (NWR) 1	1 Pro construction Notice (DCN)	\ not Poquired	the City Arborist at (210)—207-		Does the project involve the demolit	
	4 - Pre-construction Notice (PCN) not Required				further action required)
	·				The state of the s	on must be submitted to the Texas Department ctor shall contact TxDOT's Project Engineer 25
Other Nationwide Permit Re	equired: NWP#		CRITICAL HABITAT, STATE LIS	THREATENED, ENDANGERED SPECIES, STED SPECIES, CANDIDATE SPECIES AND	calendar days prior to the demolitio with the notification.	n of the bridges(s) on the project to assist
	of the US permit applies to, location of the US permit applies to contro	· · · · · · · · · · · · · · · · · · ·	MIGRATORY BIRDS.			
sedimentation and post-project					VII. OTHER ENVIRONMENTAL ISSUE	
1.			☐ No Action Required	Required Action	(includes regional issues such as	Edwards Aquifer District, etc.)
2			Action No.		No Action Required	Required Action
۷.			1. MIGRATORY BIRD NESTS: Schedule cons	struction activities as needed to meet the	Action No.	
3.4.			A. Do not remove or destroy any act containing eggs and/or flightless birds any active nests, they shall not be ref	ive migratory bird nests (nests) at any time of year. If there are	1.	
					2.	
			B. On/in structures, if there are any removed until all nests become inactive and/or before nest activity begins, detended the structures to prevent future nest	e. After inactive nests are removed terrent materials may be applied to building.	3.	
			3. The preferred nesting season for migra	nd maintained) after October 1 or before February 15. tory birds is from February 15 through October 1. operations outside of the preferred nesting season.		
401 Best Management Prac	ctices: (Not applicable if no l	JSACE permit)	4. If any of the listed species are observe	ed, cease work in the immediate area,		SAPD ACADEMY
Erosion	Sedimentation	Post-Construction TSS	do not disturb species or habitat and work may not remove active nests from	contact the COSA Inspector immediately. The months of the months of the months of the months of the contract of the months of the contract of		TRACK IMPROVMENTS
Temporary Vegetation	Sediffertation Silt Fence	Vegetative Filter Strips	nesting season of the birds associated	with the nests. If caves or sinkholes		
Blankets/Matting	Rock Berm	Retention/Irrigation Systems	are discovered, cease work in the imm COSA Inspector immediately.	euratea area, ana contact the		Texas Department of Transportation
Mulch	Triangular Filter Dike	Extended Detention Basin		face voids, etc.) is discovered during construction,		San Antonio District Standard
Sodding	Sand Bag Berm	Constructed Wetlands		sitive feature must be suspended immediately. The ately notified of any sensitive features encountered		
Interceptor Swale	Straw Bale Dike	☐ Wet Basin	during construction. The construction of	activities near the sensitive feature may not		ENMRONMENTAL PERMITS,
Diversion Dike	Brush Berms	Erosion Control Compost	· · · · · · · · · · · · · · · · · · ·	ervice (USFWS) permitted biologist has assessed the ndangered species. If it is determined that		ISSUES AND COMMITMENTS
Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	endangered species or their habitat is	present within the void space, consultations with thin the immediate vicinity of the sensitive feature		
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	will not be allowed to proceed until US	•		EPIC
Compost Filter Berm and Socks	Compost Filter Berm and Socks	_				FILE: epic 2 <u>0</u> 15-10-09 S <u>A</u> T.dgn DN: TxDOT CK: TxDOT DW: BW CK: GAG
	Stone Outlet Sediment Traps	Sand Filter Systems				©TxDOT OCTOBER 2015 CONT SECT JOB HIGHWAY
	Sediment Basins	Sedimentation Chambers				DIST COUNTY REVISIONS
		Grassy Swales				









LEGEND PRBCT Plat Records of Bexar County, Texas
OPRBCT Official Public Records of Bexar County, Texas
BSL Building Setback Line
PUE Public Utility Easement EM Electric Meter VNAE Vehicular Non-Access Easement SSE Sanitary Sewer Easement GM Gas Meter DE Drainage Easement
GETCATV Gas, Electric, Telephone and Cable TV Easement
A: Asphalt Spot Elevation
C: Concrete Spot Elevation ○ Tree CAB Cable Box Fire Hydrant —— COM —— COM —— 811 designated Communications Line ☆ Light Post —— ОНU —— ОНU —— Overhead Utililities g/ Sign —— GAS —— GAS —— 811 designated Gas Line —— — Culvert as noted ₩V Water Valve —o—o—o— Chainlink Fence —————— Guardrail D Storm Sewer Manhole — x — x — x — Wire Fence WM Water Meter — — — — — Major Contour Power Pole ----- Minor Contour -x x x Approximate Right-of-Way (see Survey Note 6) $\sqrt{}$ Guy Wire

SURVEY NOTES

NUMBER DIA. (IN.) TYPE COMMENT

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MESQUITE HACKBERRY ALIVE

- (1) CLIENT Slay Engineering Roger Lawhead
 (2) SITUS Portions of the SAPD Training Academy, 12200 SE Loop 410 Access Rd, San Antonio, TX 78214 Job No. ORFSB-1000-646
- (3) DATE FIELD SURVEY COMPLETED: September 5, 2023, portions updated on May 7, 2024 DATE OF LATEST REVISION: May 8, 2024

ీ Contour Label

- (4) COORDINATES AND BASIS OF BEARINGS are relative to State Plane Coordinate System, NAD 1983, Texas South Central Zone (4205). Vertical Datum is NAVD 1988.
- (5) According to the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) for Bexar County, Texas, Map Number 48029C0560F, effective date September 29, 2010, and Map Number 48029C0580G, effective date September 29, 2010, no portion of this property lies within an area of special flood hazard (SFHA). The NFIP FIRM is for use in administering the NFIP; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside special flood hazard areas. this flood statement does not imply that the property and/or structures located thereon will be free from flooding or flood damage. The flood hazard area is subject to change as detailed studies occur and/or watershed or channel conditions change. This flood statement shall not create liability on the part of the
- (6) THIS IS NOT A BOUNDARY SURVEY. Right of Way lines shown hereon are based upon minimal monumentation found in the field consistent with last deeds and plats of record found in the public records. Open Range Field Services, LLC and the undersigned make no representations or guarantees pertaining to easements, rights of way, set back lines, reservations, agreements and/or other matters pertaining to title. Monumenation can be found in the point file submittal for user's own determination on reliability.
- (7) Utility lines shown hereon are based on 811 designation marks and existing surface features found in the field survey. ORFS takes no responsibility and can make now guarantees as to the accuracy of any underground utility linework depicted in this survey. Forty—eight hours before digging, boring, pile driving, planting, etc. call Texas 811, so that underground utilities may be designated and/or located prior to construction activities.
- (8) Open Range Field Services, LLC and the undersigned accepts no responsibility for the identification of the tree species shown hereon. Every effort has been made to properly identify the trees shown hereon, however, tree identification is outside the area of expertise of the signing surveyor. The tree types shown hereon are for informational purposes only and should only be used after confirmation by a certified arborist or other qualified
- (9) The contours shown upon this survey were created by interpolation from elevations determined at specific locations. The elevations shown upon this survey represent a portion of the field survey that was used to create contour lines. For purposes of clarity, only minimal elevations observed for this survey have been shown upon this survey. The electronic csv, xml, and Autocad files contain the point data which was used to derive the Digital Terrain Model and contour lines.
- (10) REFERENCES: R1 Volume 9518, Page 219, DPBCT.

THE LOCATION OF THE UNDERGROUND UTILITIES HEREON WERE LOCATED FROM UTILITY THE LOCATION OF THE UNDERGROUND UTILITIES HEREON WERE LOCATED FROM UTILITY MARKINGS REQUESTED THROUGH THE TEXAS 811 SYSTEM ON 07/28/2023. TICKET NOS. 2370921324, 2370921537, & 237092148.

PURSUANT TO THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 251 & THE RCC TITLE 16, TAC, PART 1, CHAPTER 18.

ADDITIONAL UNDERGROUND UTILITIES MAY EXIST WHICH WERE NOT MARKED IN THE FIELD PER SAID TEXAS 811 TICKET.

PRIOR TO ANY EXCAVATION ON SITE, THE EXCAVATOR SHALL SEPARATELY COMPLY WITH SAID TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 251, TO CONFIRM THE LOCATION OF ANY UNDERGROUND UTILITY & THE RCC TITLE 16, TAC, PART 1, CHAPTER 18.

CERTIFICATION

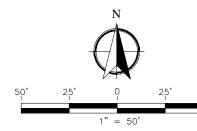
I hereby certify this survey was made on the ground under my supervision and that this plat correctly represents the conditions found on the date surveyed. REVISION 1 May 8, 2024 W. Andrew McLoughton, TX RPLS #6473 DATE TBPELS Firm #10194069 39350 IH-10 West, Suite 1 Boerne, TX 78006 830.428.0290 | BTX@openrangefs.com Job No.: ORFSB-1000-646 W. ANDREW McLAUGHLIN 6473 RANGE. FIELD SERVICES, LLC. SHEET 3 OF 4

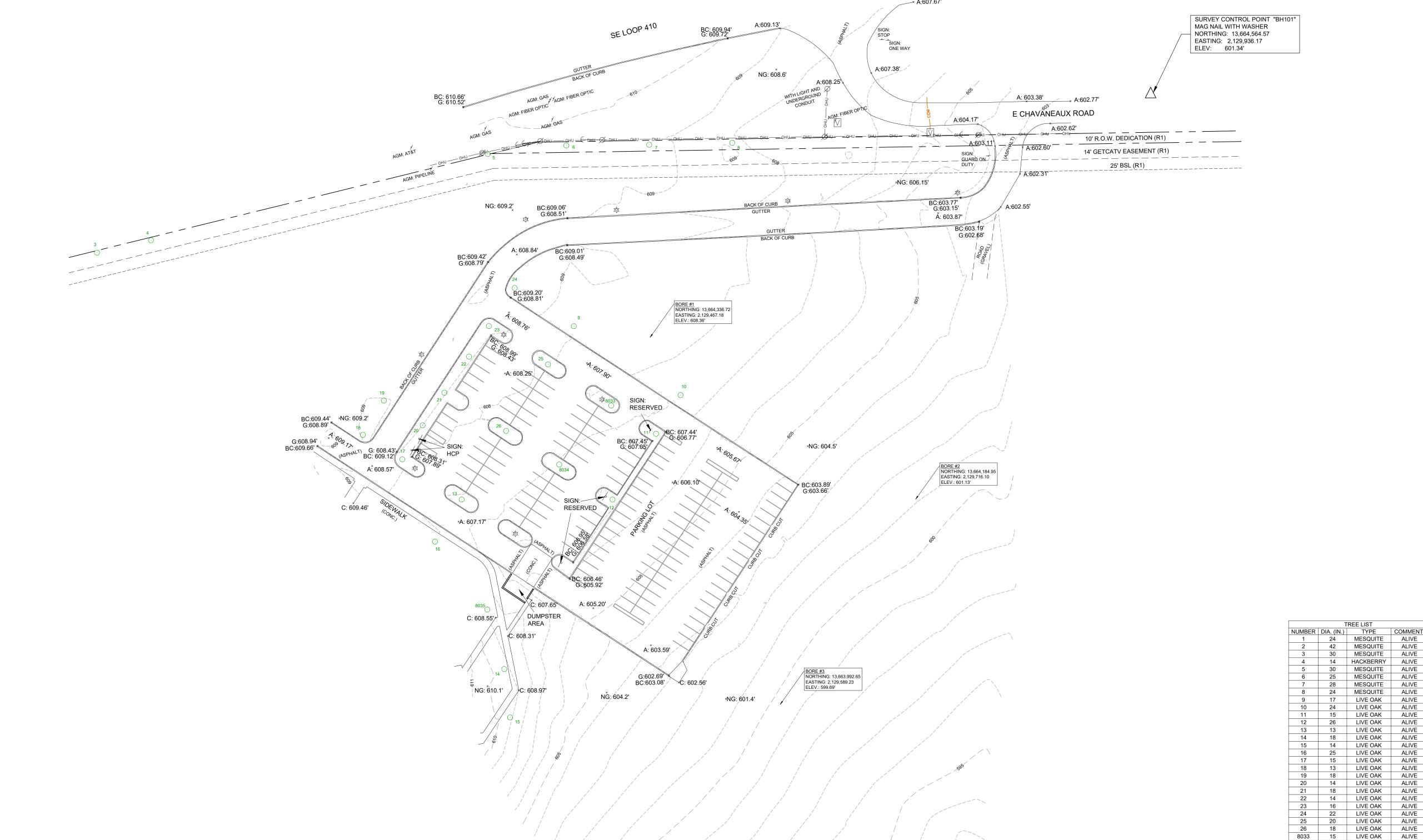
CUI VERT INFORMATION

			C	ULVE	RT INFORMATION				
1.	24" RCP CULVERT NW INVERT: 602.04 SE INVERT: 602.30	SW	RCP CULVERT INVERT: 601.19 INVERT: 601.50	13.	42" RCP CULVERT SW INVERT: 590.89 NE INVERT: 591.27	19	SE INVERT: 596.82 NW INVERT: 597.33	25.	AREA INLET MANHOLE: 601.07 BOTTOM: 596.05
2.	24" RCP CULVERT NW INVERT: 601.60 SE INVERT: 601.10	SW	RCP CULVERT INVERT: 593.85 INVERT: 594.72	14.	48" RCP CULVERT SW INVERT: 588.16 NE INVERT: 588.59	20). 24" CMP CULVERT SE INVERT: 601.72 NW INVERT: 602.24	26.	AREA INLET MANHOLE: 600.59 BOTTOM: 595.57
3.	24" RCP CULVERT NW INVERT: 598.32 SE INVERT: 598.04	SW	RCP CULVERT INVERT: 594.88 INVERT: **	15.	24" CPP CULVERT NW INVERT: 592.73 SE INVERT: 594.58	2	. 5' WIDE X 2' TALL CONC. CULVERT SW: 601.91 NE: 602.01	27.	AREA INLET TOP: 604.85 BOTTOM: 602.24
4.	24" RCP CULVERT NW INVERT: 601.72 SE INVERT: 601.77	SW	CPP CULVERT INVERT: 595.50 INVERT: 596.21	16.	36" RCP CULVERT NE INVERT: 588.33 SW INVERT: 589.60	22	2. 6' WIDE X 3' TALL CONC. CULVERT SE: 587.69 - 587.69 NW: 587.26 - 587.45	28.	5' WIDE X 2' TALL CONC. CULVERT SW: 602.12 NE: 602.11
5.	24" RCP CULVERT NW INVERT: 600.21 SE INVERT: 599.98	SW	CPP CULVERT INVERT: 595.23 INVERT: 594.93	17.	36" RCP CULVERT NW INVERT: 594.96 SE INVERT: ***	23	B. 5' WIDE X 4' TALL CONC. CULVERT SE INVERT: 581.20 NW INVERT: 576.36	29.	24" RCP CULVERT SE INVERT: 602.14 NW INVERT: 601.88
6.	24" RCP CULVERT NW INVERT: 600.38 SE INVERT: 600.66	SW	CPP CULVERT INVERT: 599.50 INVERT: 599.51	18.	24" RCP CULVERT SE INVERT: 597.52 NW INVERT: 594.88	24	1. 3.5' X 3.5' INLET TOP: 591.36 BOTTOM: 587.30		

THE INVERT FOR CULVERT #9 CANNOT BE REACHED. THE BOTTOM OF THE BOX (#25) IS 596.05.

THE INVERT FOR CULVERT #17 CANNOT BE ACCURATELY MEASURED BECAUSE OF THE CONFIGURATION OF THE BOX. THERE IS A SLOPED WALL THAT FEEDS INTO THE CULVERT. IT IS 4.65' FROM THE MANHOLE TO THE SLOPED WALL.





NORTHING: 13,663,768.85 EASTING: 2,129,639.99 ELEV.: 593.68'

CULVERT INFORMATION

1. 24" RCP CULVERT NW INVERT: 602.04 SE INVERT: 602.30	7. 24" RCP CULVERT SW INVERT: 601.19 NE INVERT: 601.50	13. 42" RCP CULVERT SW INVERT: 590.89 NE INVERT: 591.27	19. 36" RCP CULVERT SE INVERT: 596.82 NW INVERT: 597.33	25. AREA INLET MANHOLE: 601.07 BOTTOM: 596.05
2. 24" RCP CULVERT NW INVERT: 601.60 SE INVERT: 601.10	8. 42" RCP CULVERT SW INVERT: 593.85 NE INVERT: 594.72	14. 48" RCP CULVERT SW INVERT: 588.16 NE INVERT: 588.59	20. 24" CMP CULVERT SE INVERT: 601.72 NW INVERT: 602.24	26. AREA INLET MANHOLE: 600.59 BOTTOM: 595.57
3. 24" RCP CULVERT NW INVERT: 598.32 SE INVERT: 598.04	9. 42" RCP CULVERT SW INVERT: 594.88 NE INVERT: **	15. 24" CPP CULVERT NW INVERT: 592.73 SE INVERT: 594.58	21. 5' WIDE X 2' TALL CONC. CULVERT SW: 601.91 NE: 602.01	27. AREA INLET TOP: 604.85 BOTTOM: 602.24
4. 24" RCP CULVERT NW INVERT: 601.72 SE INVERT: 601.77	10. 18" CPP CULVERT SW INVERT: 595.50 NE INVERT: 596.21	16. 36" RCP CULVERT NE INVERT: 588.33 SW INVERT: 589.60	22. 6' WIDE X 3' TALL CONC. CULVERT SE: 587.69 - 587.69 NW: 587.26 - 587.45	28. 5' WIDE X 2' TALL CONC. CULVERT SW: 602.12 NE: 602.11
5. 24" RCP CULVERT NW INVERT: 600.21 SE INVERT: 599.98	11. 36" CPP CULVERT SW INVERT: 595.23 NE INVERT: 594.93	17. 36" RCP CULVERT NW INVERT: 594.96 SE INVERT: ***	23. 5' WIDE X 4' TALL CONC. CULVERT SE INVERT: 581.20 NW INVERT: 576.36	29. 24" RCP CULVERT SE INVERT: 602.14 NW INVERT: 601.88
6. 24" RCP CULVERT NW INVERT: 600.38 SE INVERT: 600.66	12. 22" CPP CULVERT SW INVERT: 599.50 NE INVERT: 599.51	18. 24" RCP CULVERT SE INVERT: 597.52 NW INVERT: 594.88	24. 3.5' X 3.5' INLET TOP: 591.36 BOTTOM: 587.30	

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LEGEND

PRBCT Plat Records of Bexar County, Texas
OPRBCT Official Public Records of Bexar County, Texas
BSL Building Setback Line
PUE Public Utility Easement EM Electric Meter VNAE Vehicular Non-Access Easement SSE Sanitary Sewer Easement GM Gas Meter DE Drainage Easement
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A: Asphalt Spot Elevation
C: Concrete Spot Elevation ○ Tree CAB Cable Box Fire Hydrant —— COM —— COM —— 811 designated Communications Line ☆ Light Post —— ОНU —— ОНU —— Overhead Utililities g/ Sign —— GAS —— GAS —— 811 designated Gas Line GV Gas Valve —— Culvert as noted ₩V Water Valve —O—O—O— Chainlink Fence —————— Guardrail D Storm Sewer Manhole — x — x — x — Wire Fence WM Water Meter — — — — — Major Contour Ø Power Pole ----- Minor Contour -x x x Approximate Right-of-Way (see Survey Note 6) $\sqrt{}$ Guy Wire တ် Contour Label

SURVEY NOTES

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- (1) CLIENT Slay Engineering Roger Lawhead
 (2) SITUS Portions of the SAPD Training Academy, 12200 SE Loop 410 Access Rd, San Antonio, TX 78214 Job No. ORFSB-1000-646
- (3) DATE FIELD SURVEY COMPLETED: September 5, 2023, portions updated on May 7, 2024 DATE OF LATEST REVISION: May 8, 2024
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PURSUANT TO THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 251 & THE RCC TITLE 16, TAC, PART 1, CHAPTER 18.

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CERTIFICATION

I hereby certify this survey was made on the ground under my supervision and that this plat correctly represents the conditions found on the date surveyed. REVISION 1 May 8, 2024 W. Andrew McLaughlin TX RPLS #6473 DATE TBPELS Firm #10194069 39350 IH-10 West, Suite 1 Boerne, TX 78006 830.428.0290 | BTX@openrangefs.com \star Job No.: ORFSB-1000-646 W. ANDREW McLAUGHLIN FIELD SERVICES, LLC. SHEET 4 OF 4

SE LOOP 410 ACC RD. (ASPHALT) DAVIS LOOP N. (ASPHALT) ANTILLON LOOP S. (ASPHALT)

BRACKMAN BLVD. (ASPHALT)

DEMOLITION PLAN

SCALE: 1" = 100'

DEMOLITION NOTES:

- 1. BIDDERS ARE HEREBY NOTIFIED TO MAKE A THOROUGH REVIEW OF THE JOB SITE AND SOIL BORING INFORMATION PROVIDED BY ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ROCK, SAND, GRAVEL, OR OTHER UNSTABLE CONDITIONS ENCOUNTERED IN ANY WORK IMPLIED BY THESE DRAWINGS.
- 2. THE CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. STARTING ANY WORK CONSTITUTES THE APPROVAL OF THE EXISTING CONDITIONS SHOWN.
- 3. THE GENERAL EXTENT OF DEMOLITION WORK IS SHOWN ON THE DRAWINGS. IT IS NOT POSSIBLE TO SHOW REQUIRED DEMOLITION IN EVERY DETAIL. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION WORK, AND TO FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK SHALL BE PERFORMED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK SHOWN OR REQUIRED AS A RESULT OF WORK SHOWN, OR WORK REQUIRED AS A RESULT OF NEW WORK OR DEMOLITION.
- 4. DEMOLITION OF STRUCTURES INCLUDES REMOVAL OF THE BUILDING SUPERSTRUCTURE. FOUNDATION, AND ALL ASSOCIATED IN-GROUND AND ABOVE-GROUND UTILITIES.
- 5. DEMOLITION INCLUDES REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS. THE CONTRACTOR SHALL PROVIDE DUMPSTER OR OTHER SUITABLE MEANS OF DISPOSAL OF DEMOLISHED MATERIALS AND CONSTRUCTION DEBRIS. DUMPSTER SHALL BE PLACED IN A LOCATION APPROVED BY THE OWNER AND IN ACCORDANCE WITH LOCAL CODES AND REQUIREMENTS.
- 6. THE CONTRACTOR SHALL REMOVE EXISTING IMPROVEMENTS WITHIN THE LIMITS OF THE SITE, AS REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE SUB-SURFACE UTILITIES THAT WILL NO LONGER REMAIN IN SERVICE.
- 7. ALL DEMOLISHED MATERIALS, DEBRIS, AND RUBBISH SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- 8. THE CONTRACTOR SHALL REPAIR DAMAGE TO ADJACENT AREAS, FACILITIES, UTILITIES, MATERIALS, AND EQUIPMENT DONE BY DEMOLITION AND NEW CONSTRUCTION OPERATIONS, AT NO EXTRA COST TO THE OWNER.
- 9. WHERE BACKFILLING IS REQUIRED, AS A RESULT OF DEMOLITION, SATISFACTORY BACKFILL MATERIAL SHALL BE PLACED IN MAX EIGHT INCH DEEP LIFTS. EACH LIFT SHALL BE COMPACTED TO 90% OPTIMUM WHEN TESTED IN ACCORDANCE WITH ASTM 1557-D. SEE CIVIL FOR ADDITIONAL SITE FILLING AND COMPACTION REQUIREMENTS. SEE STRUCTURAL FOR REQUIREMENTS UNDER BUILDING FOUNDATIONS.

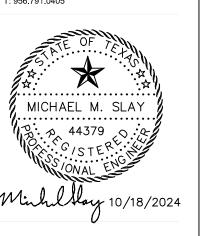
KEYED NOTES:

- TO EXISTING RCP CULVERT WITH HEADWALL TO BE REMOVED. REMOVE HEADWALL, BRICK CULVERT OPENING AND ABANDON IN PLACE.
- [2] EXISTING AREA INLET TO BE REMOVED. REMOVE AND REPLACE CONC. APRON ON THREE SIDES TO PROPOSED ELEVATION. (SEE GRADING PLAN SHEET C8.2)
- 3 EXISTING GUARDRAIL TO BE REMOVED.
- EXISTING BOLLARDS AND ABOVE GROUND WATER LINES TO BE REMOVED LOCATE, EXPOSE, AND REMOVE WATER LINES BELOW PROPOSED PAVEMENT AREAS. CAP BELOW GROUND WATER LINES IN RECTANGULAR METER BOX WITH BASE (CAST IRON) PER ASTM A48 CLASS 30B.
- 5 TEMPORARILY RELOCATE EXISTING SHADED SEATING TO GRASS AREA.
- 6 REMOVE ±28LF CHAIN LINK FENCE. SEE DETAIL SHEET C5.1 FOR DETAIL.

LEGEND:

LLGLIND.	
	PROPERTY LINE
	PAVEMENT CENTER LINE
	ADJACENT PROPERTY LINE
	EASEMENT LINE
	EXISTING CHAINLINK FENCE
———— E. GAS ———————————————————————————————————	EXISTING GAS LINE
	EXISTING FIRE HYDRANT
(EXISTING GUY WIRE
S	EXISTING SANITARY SEWER MANHOLE
D	EXISTING STORM DRAIN MANHOLE
-0-	EXISTING SIGN
	EXISTING SPRINKLER VALVE
+	EXISTING TREE
	EXISTING SHADE STRUCTURE
	MILL & OVERLAY AS REQUIRED
	FULL DEPTH RECONSTRUCTION





VEMENT

Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

Project NO.: 22028 Date:08/30/2024

Feet

SAPD CONSTRUCTION PHASING

PHASE 1 CONSTRUCTION SHALL PERMIT SAPD USE OF ANTILLON LOOP AT ALL TIMES DURING PHASE ONE CONSTRUCTION.

PHASE 1A — CONSTRUCTIONS STORM SEWER AND DETENTION POND

PHASE 1B — CONSTRUCT BRACKMAN BLVD., HENERIE CT., AND GARCIA ST.

PHASE 1C SISCO PARKWAY — CONSTRUCT SISCO PARKWAY, INTERSECTION IMPROVEMENTS AND CONNECTING DRIVEWAY. CONSTRUCT NEW TRAFFIC SIGNAL WITH ASSOCIATED CONTROLLER, POLES, LIGHTS, CONDUITS, AND EQUIPMENT.

PHASE 1D DAVIS LOOP - CONSTRUCT DAVIS LOOP.

PHASE 2A ANTILLON LOOP - CONSTRUCT ANTILLON LOOP.

PHASE 2B ANTILLON LOOP — CONSTRUCT ANTILLON LOOP NORTH & TOWER PARKING WHILE PERMITTING THE USE OF PHASE 2A ANTILLON LOOP. CONSTRUCT SEVENTEEN SPACE PARKING LOT EXPANSION, FENCING, & STRIPING. CONTRACTOR IS TO CONSTRUCT PHASE 2B AFTER ALL OTHER PHASES ARE COMPLETED.

PHASE 3A WHEELER WAY — CONSTRUCT WHEELER WAY, INCLUDING PROPOSED NEW PAVEMENT, AND TRAINING PAD 3. REPAIR SKID PAD CONCRETE JOINTS AND PAVEMENT POINT REPAIR.

PHASE 3B MORALES AVE. - CONSTRUCT MORALES AVE., AND TRAINING PAD 2.

PHASE 3C MOINNIS DR. - CONSTRUCT MOINNIS DR., TRAINING PAD 1, AND CUL-DE-SAC.

NOTES:

- ,1. IN EACH PHASE, CONTRACTOR SHALL INCLUDE IN THE BASE BID THE COST TO STOP AND START CONSTRUCTION ACTIVITIES FOR TWO WEEKS AT THE DISCRETION OF THE SAPD TRAINING ACADEMY SUPERVISOR. CONTRACTOR SHALL INCLUDE AS AN ALTERNATE IN THE BID THE COST TO STOP AND START CONSTRUCTION IN EXCESS OF THE 5 START AND STOPS INCLUDED IN THE BASE
- ALL PHASES OF WORK UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE ITEMS OF TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 3. CONTRACTOR SHALL COMPLY WITH ALL LOCAL BUILDING CODES AND REGULATIONS, TDLR & ADA CODES AND SPECIFICATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PREVISIONS APPLICABLE TO THIS PROJECT.
- 4. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS: AND THE CONTRACTOR SHALL DEFEND. INDEMNIFY. AND HOLD THE OWNER AND THE ENGINEER 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.
- 5. ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE THEIR SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE SITE TO PROPERTY WHERE THE CONTRACTOR HAS THE CONSENT OF THE OWNERS. NO WASTE MATERIALS SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER THE RUNOFF OF THE EXISTING NATURAL DRAINAGE. MILLINGS, NATURAL TOPSOIL, AND SOIL EXCAVATION SHALL BE LOCATED IN SEPARATE STOCKPILES AS SHOWN ON THE AREA SOUTH OF THE DRIVING TRACK. THE LOOP ROAD SHALL REMAIN OPEN AT ALL TIMES FOR CADET TRAINING.
- 6. EXISTING ABOVE GROUND UTILITIES HAVE BEEN PLOTTED BY DIRECT FIELD INVESTIGATION (SURVEY PERFORMED BY OPEN RANGE FIELD SERVICES). UNDERGROUND UTILITIES HAVE BEEN COMPILED FROM VARIOUS SOURCES AND REQUIRE VERIFICATION BY THE CONTRACTOR TO ESTABLISH THEIR EXACT LOCATION AND DEPTH PRIOR TO SETTING ANY FINISH GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE GROUND OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON DRAWINGS. DEAD UTILITY LINES SHALL BE SUITABLY CAPPED.
- 7. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER AND APPROVED BY THE RESPECTIVE UTILITY AT THE CONTRACTOR'S EXPENSE.
- 8. FOR LOCATION OF UNDERGROUND ELECTRIC, GAS, TELEPHONE, AND WATER FACILITIES, CALL THE LOCAL UTILITY LOCATOR FORTY EIGHT HOURS BEFORE BEGINNING ANY EXCAVATION.
- 9. PROPOSED UTILITIES AND SLEEVES WILL BE INSTALLED PRIOR TO CONSTRUCTION OF ANTILLON LOOP PHASE 2B.
- 10. REMOVE ± 28 LF OF EXISTING FENCE AND INSTALL 2-14 WIDE X 6 TALL GATES.

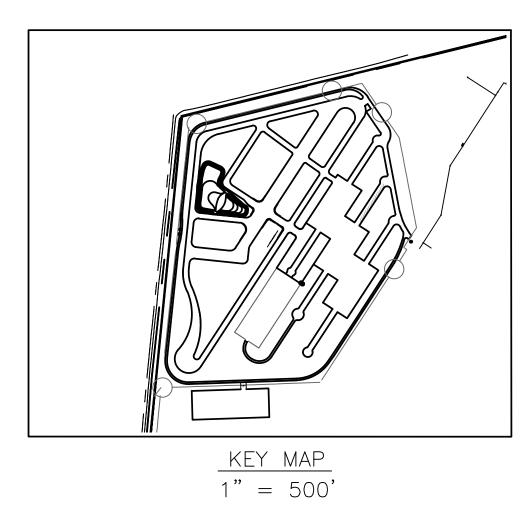
LEG	END
	2, 13 2 111 2 11 12
x x	EXISTING EDGE OF ASPHALT EXISTING BARBED WIRE FENCE EXISTING CHAINLINK FENCE





DOCUMENTS

Project NO.: 22028 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25



LEGEND

PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING EDGE OF ASPHALT EXISTING BARBED WIRE FENCE EXISTING CHAINLINK FENCE
EXISTING WOOD FENCE
EXISTING OVERHEAD ELECTRIC LIN
SILT FENCE
EXISTING FIRE HYDRANT
EXISTING LIGHT POLE

BENCHMARKS:

- SURVEY CONTROL POINT "BH100" NORTHING: 13,663,689.06 EASTING: 2,128,794.78 ELEV: 609.23'
- SURVEY CONTROL POINT "BH102" MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'
- SURVEY CONTROL POINT "BH103" MAG NAIL WITH WASHER NORTHING: 13,662,380.92 EASTING: 2,127,237.64 ELEV: 602.12'

NOTE:

1. ALL DIMENSIONS ARE TO BACK OF CURB



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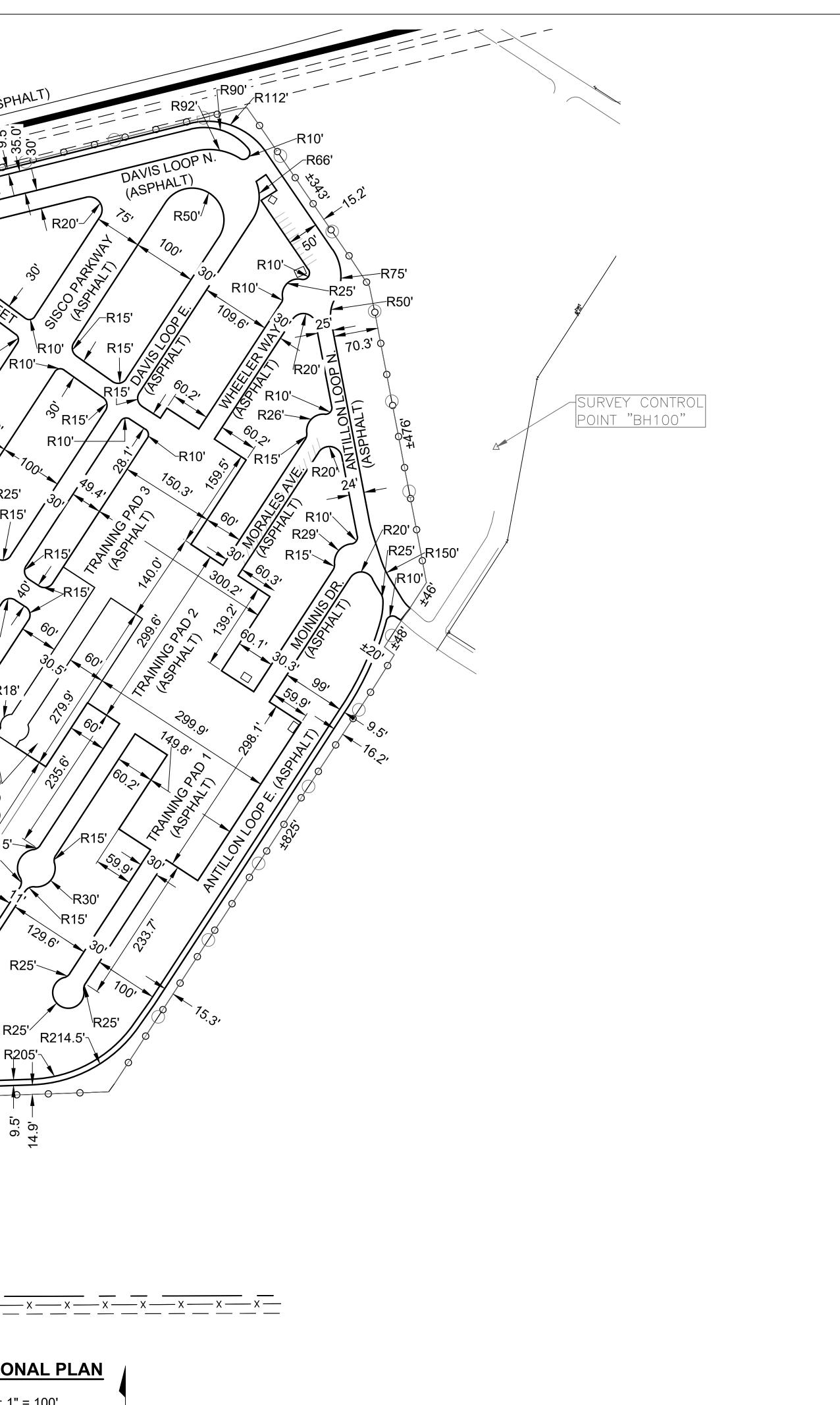


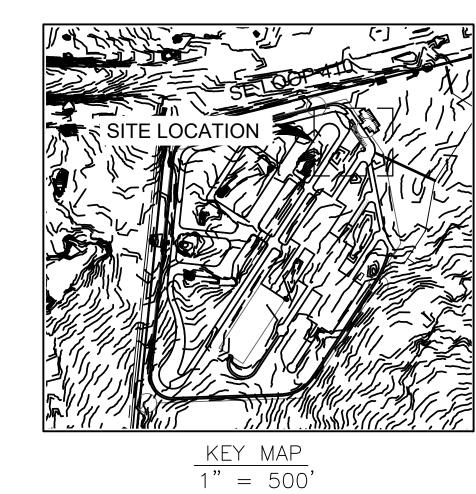
CONSTRUCTION DOCUMENTS ANTONIO,

Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

100%

DIMENSIONAL PLAN





LEGEND

	PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING CHAIN LINK FENCE EXISTING EDGE OF ASPHALT EXISTING BARBED WIRE FENCE EXISTING OVERHEAD ELECTRIC LINE EXISTING GAS LINE PROPOSED CHAIN LINK FENCE EXISTING CHAIN LINK FENCE
4 4 4 4 4	PROPOSED CONCRETE PROPOSED ASPHALT PAVEMENT
ZWZ Z	EXISTING UNDERGROUND GAS LINI PROXIMITY USE CAUTION
HCP	HANDICAP PARKING
- 0-	EXISTING SIGN

NOTES:

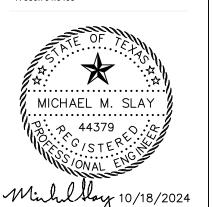
- 1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE POSTED ON ALL ACCESSIBLE PARKING SPACES MARKING THE RESERVED SPOT.
- 2. (A) HEAD—IN PARKING PLACES SHALL BE 9'X 18'TO 10'X 20'WITH 4" WIDE WHITE LINE.
- 3. REFERENCE ACADEMY "DRIVING TRACK IMPROVEMENTS & PARKING EXPANSION GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON (TERRACON PROJECT NO. 90235085) DATED OCTOBER 5, 2023 AND THE SUPPLEMENTAL ATTACHMENT FOR ALL GEOTECHNICAL DETAILS.

PARKING SUMMARY	
PROPOSED PARKING SPACES (NOT INCLUDING ADA SPACES)	25
REQUIRED ACCESSIBLE PARKING SPACES	1
PROPOSED ACCESSIBLE PARKING SPACES	1
TOTAL PARKING SPACES (INCLUDING ADA SPACES)	26



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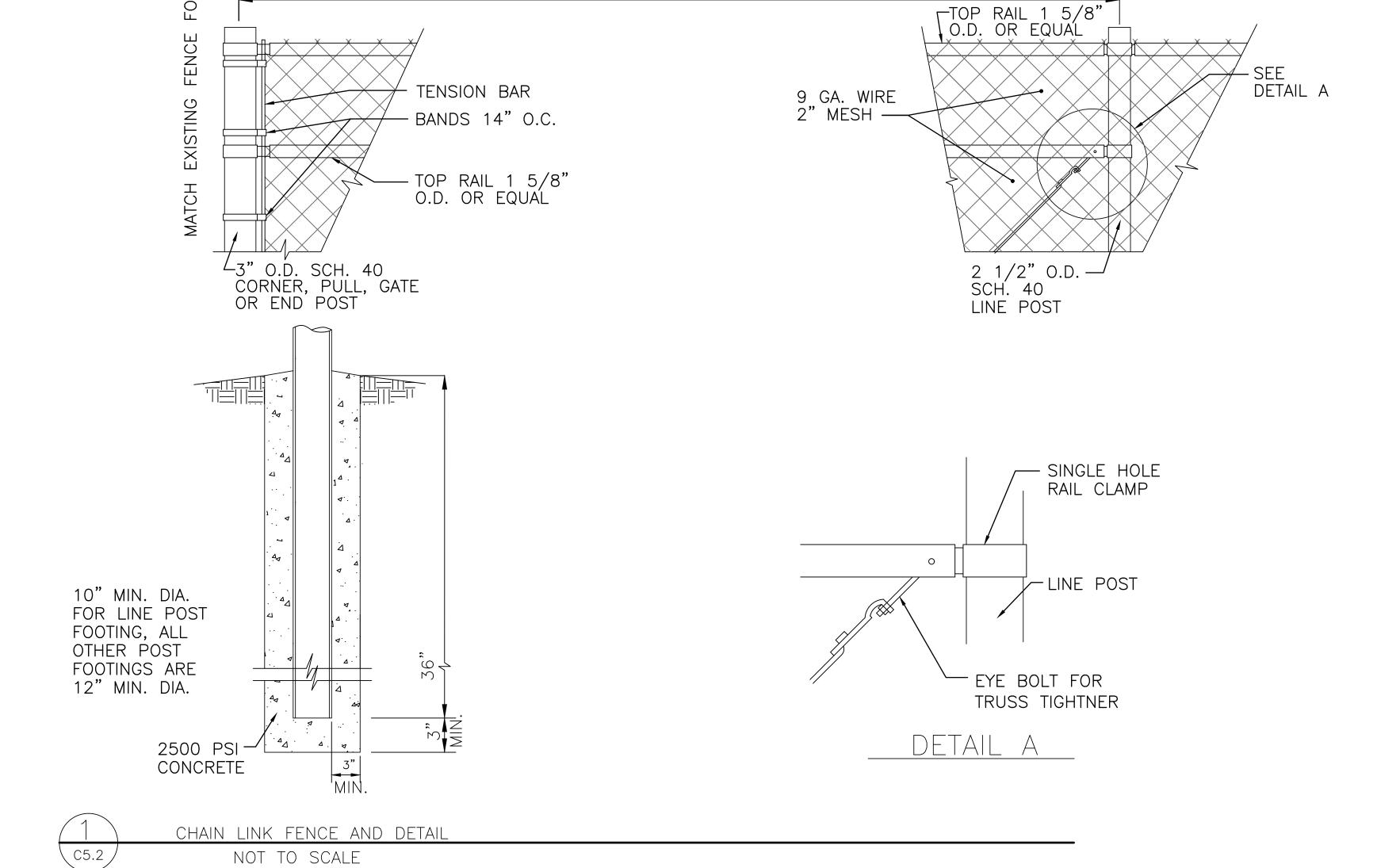
LAREDO
9901 McPherson Avenue, #104
Laredo, Texas 78045
T: 956.791.0405



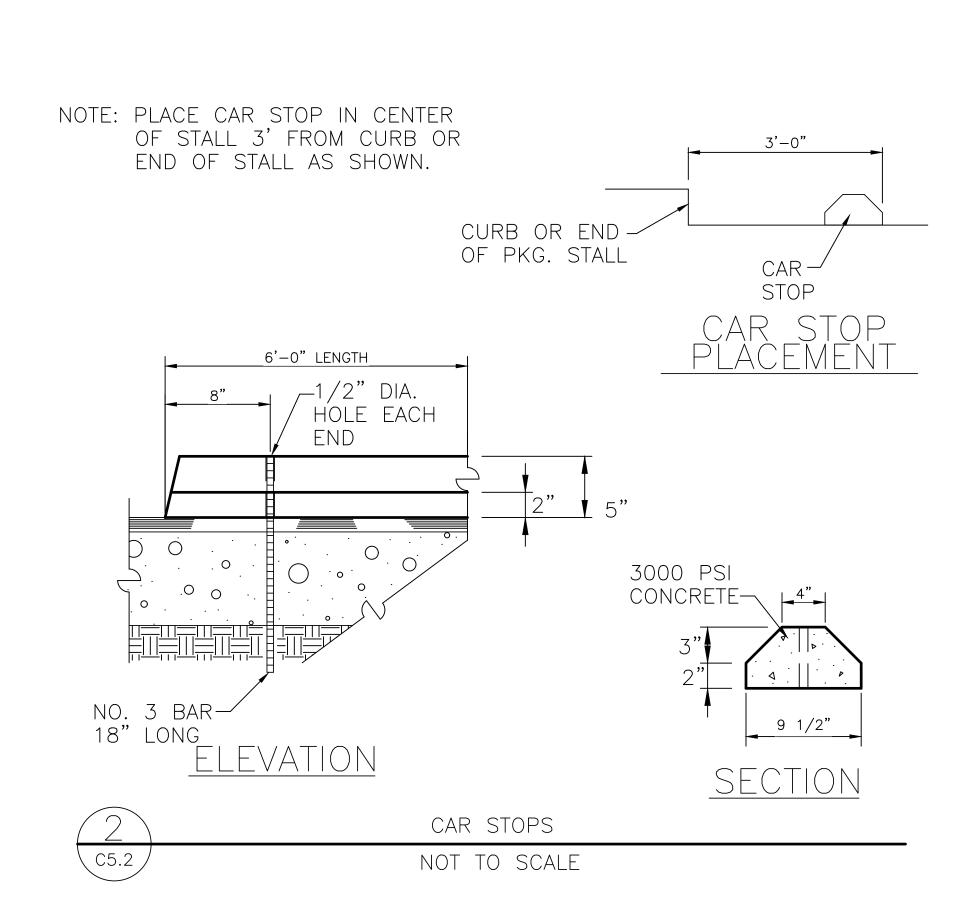
100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRACK PAVEMEN

Project NO.: 22028
Date: 08/30/2024
Revisions: Stockpile Location - 12/3/24
Drainage Comments - 2/24/25

C5.1



_10'-0" USUAL





AVEMENT

Project NO.: 22028 Date: 08/30/2024

Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TO A COLOR

SAN ANTONIO,

410,

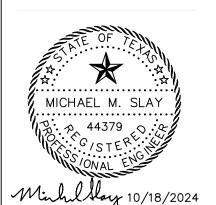
12200 SE.

NOTES:

- 1. PAVEMENT REPAIRS BASED ON <u>48,056</u> SY DETAIL 1 ON SHEET C12.0; 833 SY OF DETAIL 3 ON SHEET C12.0, AND 8606 SY OF DETAIL 4 OF SHEET C12.0. UNIT PRICE TO ADD OR DECREASE QUANTITY WILL BE AT THE UNIT PRICE BID.
- 2. SEE GRADING PLAN SHEETS C8.0-C8.4 FOR PROPOSED 2' CONCRETE SWALE.
- 3. SEE SHEET C12.0-C12.3 FOR TYPICAL PAVEMENT SECTIONS
- 4. CONTRACTOR SHALL TEMPORARILY RELOCATE SHADED SEATING TO GRASSED AREA DURING PHASE 2B.

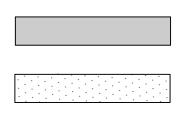
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LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EASEMENT LINE
1000	EXISTING MAJOR CONTOUR
999	EXISTING MINOR CONTOUR
	EXISTING EDGE OF ASPHALT
x x	EXISTING BARBED WIRE FENCE
////	EXISTING WOOD FENCE
E. OHE	EXISTING OVERHEAD ELECTRIC LINE
100 D	EXISTING FIRE HYDRANT
\	EXISTING LIGHT POLE



NEW PAVEMENT/COOL DOWN LOOP FULL DEPTH RECONSTRUCTION (DETAIL 4 SEE SHEET C12.0) ASPHALT TRACK PAVEMENT MILL & OVERLAY (DETAIL 1 SEE SHEET C12.0)



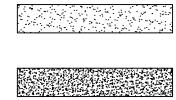
ASPHALT PAD PAVEMENT MILL & OVERLAY (DETAIL 1 SEE SHEET C12.0)



ASPHALT PAD NEW PAVEMENT (DETAIL 4 SEE SHEET C12.0)



EXISTING CONCRETE SKID PAD MAINTENANCE (DETAIL 1 & 2 SEE SHEET C12.3) NEW PARKING LOT ASPHALT PAVEMENT

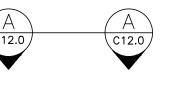


(DETAIL 3 SEE SHEET C12.0) PARKING LOT ASPHALT PAVEMENT MILL & OVERLAY

SECTION VIEW WITH REFERENCE SHEET NUMBER



(DETAIL 1 SEE SHEET 12.0)



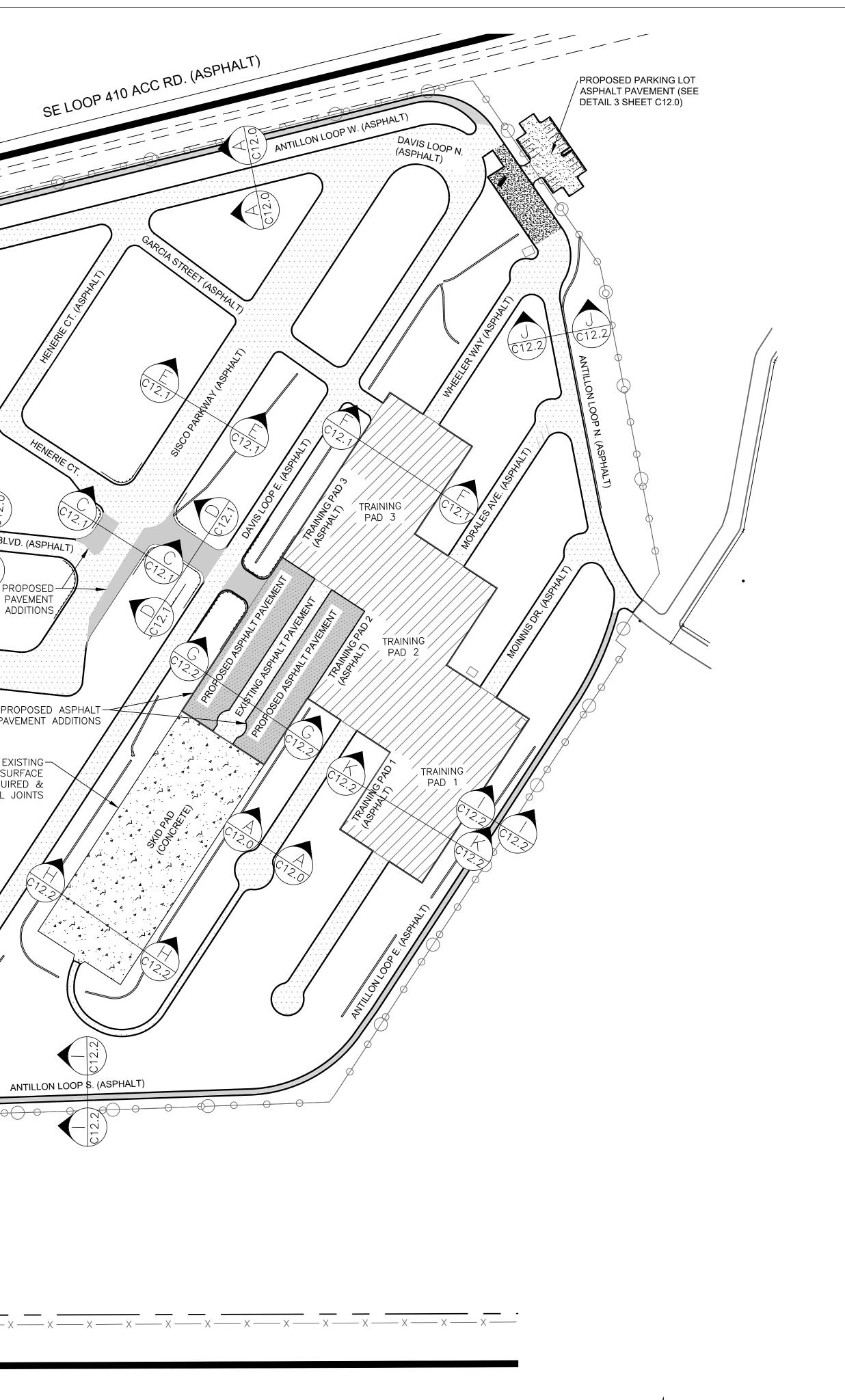
PROPOSED 2' CONCRETE SWALE (SEE SHEET C12.3)

100% Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

DOCUMENTS

CONSTRUCTION

PAVING PLAN



BRACKMAN BLVD. (ASPHALT)

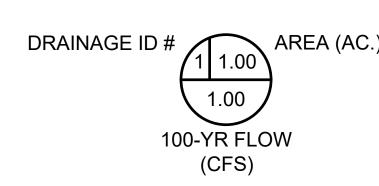
REPAIR EXISTING— CONCRETE SURFACE WHERE REQUIRED & REWORK CONTROL JOINTS

PROPOSED-PAVEMENT

PROPOSED ASPHALT-PAVEMENT ADDITIONS

LEGEND:

— — 1000 — —	EXISTING MAJOR CONTOUR
999	EXISTING MINOR CONTOUR
← · · · · · · · · · · · · · · · · · · ·	FLOWPATH
	EXISTING DRAINAGE EASEMEN
	DRAINAGE AREA BOUNDARY



DRAINAGE A	AREA TABLE
AREA NUMBER	ACRES
1	81.08
2	14.36
3	27.83
4	41.43

HEC-HMS OUTPUT TABLES

	1-yr	
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)
Slay - DA - 1 Existing	0.13	165.37
Slay - DA - 2 Existing	0.02	13.97
Slay - DA - 3 Existing	0.04	29.65
Slay - DA - 4 Existing	0.06	28.74
Hydrologic Element	25-yr Drainage Area (MI2)	Peak Discharge (CFS)
Slay - DA - 1 Existing	0.13	560.67
Slay - DA - 2 Existing	0.02	36.76
Slay - DA - 2 Existing		
Slay - DA - 3 Existing	0.04	66.89

5-yr										
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)								
Slay - DA - 1 Existing	0.13	313.93								
Slay - DA - 2 Existing	0.02	20.09								
Slay - DA - 3 Existing	0.04	42.81								
Slay - DA - 4 Existing	0.06	49.22								
Hydrologic Element	100-yr Drainage Area (MI2)	Peak Discharge (CFS)								
Slay - DA - 1 Existing	0.13	779.22								
Slay - DA - 2 Existing	0.02	79.22								
Slay - DA - 3 Existing	0.04	116.13								
Slay - DA - 4 Existing	0.06	279.44								



100% CONSTRUCTION DOCUMENTS

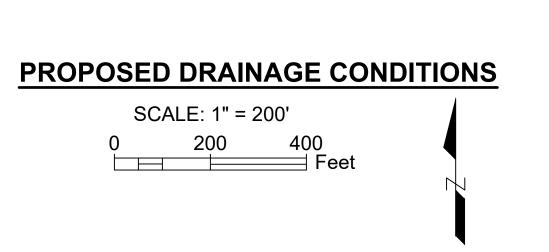
EXISTING DRAINAGE CONDITIONS

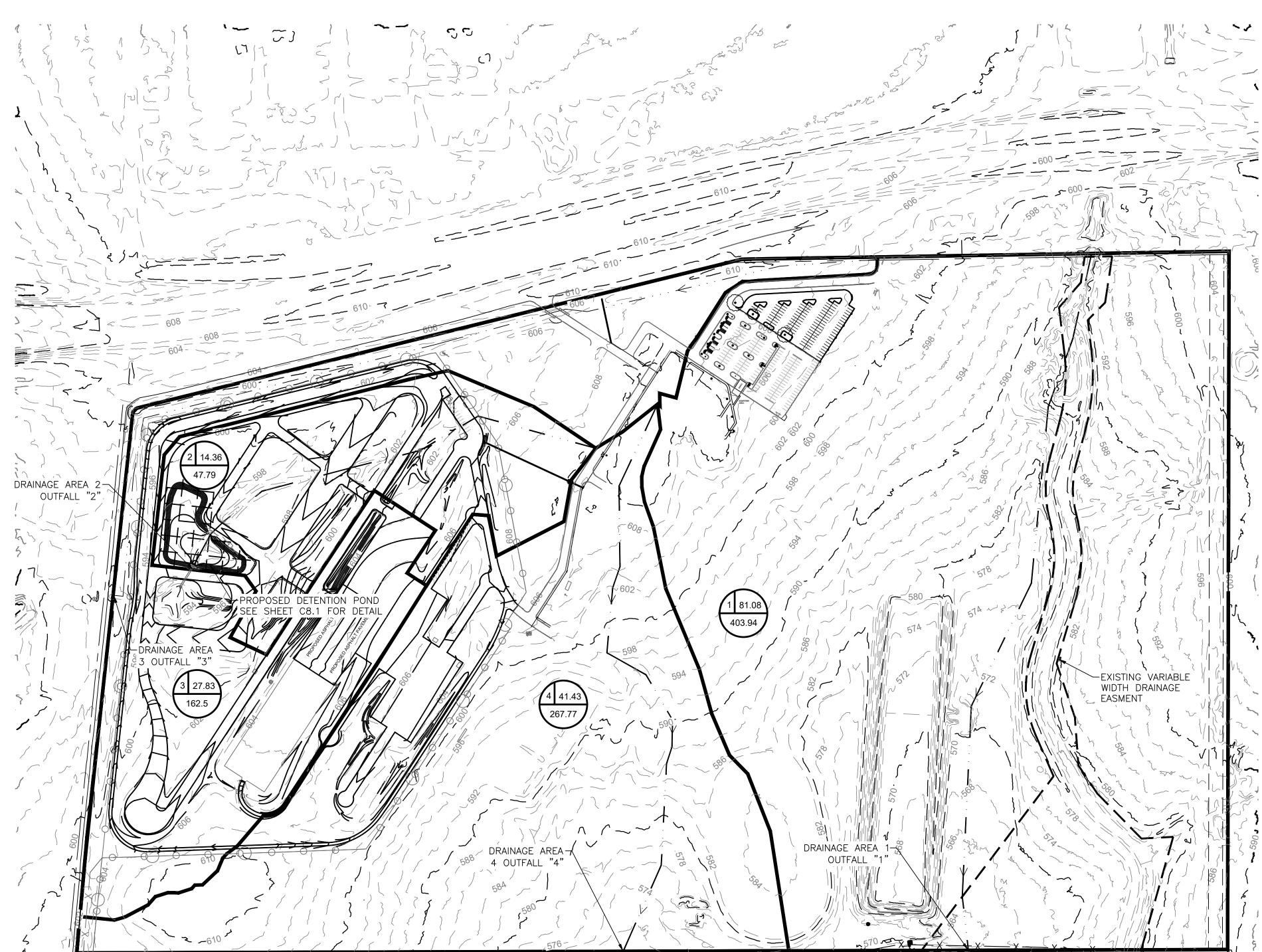
SCALE: 1" = 200'

Project NO.: 22028 Date:08/30/2024

Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

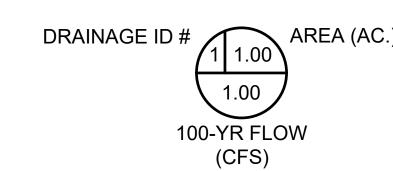






LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EASEMENT LINE
1000	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED CURB
	FLOW LINE
	EXISTING DRAINAGE EASEME
	DRAINAGE AREA BOUNDARY



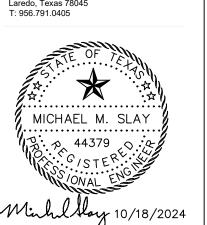
DRAINAGE A	AREA TABLE
area number	ACRES
1	81.08
2	14.36
3	27.83
4	41.43

HEC-HMS OUTPUT TABLES

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (Cl
Slay - DA - 1 Proposed W/ Det	0.13	165.43
Slay - DA - 2 Proposed W/ Det	0.02	19.19
Slay - DA - 3 Proposed W/ Det	0.04	32.9
Slay - DA - 4 Proposed W/ Det	0.06	32.38
Slay - DA - 1 Proposed No Det	0.13	165.43
Slay - DA - 2 Proposed No Det	0.02	19.19
Slay - DA - 3 Proposed No Det	0.04	32.9
Slay - DA - 4 Proposed No Det 25-Y	R STO	32.38 RM
25-Y	R STO	RM
		RM
25-Y	R STO	RM Peak Discharge (CI
25-Y Hydrologic Element Slay - DA - 1 Proposed W/ Det	RSTO Drainage Area (MI2) 0.13	Peak Discharge (CF 560.5
25-Y Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det	Prainage Area (MI2) 0.13 0.02	Peak Discharge (CF 560.5 46.07
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	Prainage Area (MI2) 0.13 0.02 0.04	Peak Discharge (CI 560.5 46.07 72.98
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	Prainage Area (MI2) 0.13 0.02 0.04	Peak Discharge (CI 560.5 46.07 72.98
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det	Prainage Area (MI2) 0.13 0.02 0.04 0.06	Peak Discharge (CF 560.5 46.07 72.98 151.2
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det Slay - DA - 1 Proposed W/ Det	Prainage Area (MI2) 0.13 0.02 0.04 0.06	Peak Discharge (CF 560.5 46.07 72.98 151.2 560.5

5-Y		
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)
Slay - DA - 1 Proposed W/ Det	0.13	313.95
Slay - DA - 2 Proposed W/ Det	0.02	27.61
Slay - DA - 3 Proposed W/ Det	0.04	47.5
Slay - DA - 4 Proposed W/ Det	0.06	54.25
Slay - DA - 1 Proposed No Det	0.013	313.95
Slay - DA - 2 Proposed No Det	0.02	27.61
Slay - DA - 3 Proposed No Det	0.04	47.5
Slay - DA - 3 Proposed No Det	0.04	47.5
Slay - DA - 4 Proposed No Det	0.06	54.25
Slay - DA - 4 Proposed No Det	YR STC	54.25
Slay - DA - 4 Proposed No Det 100-	0.06	54.25 PKM
Slay - DA - 4 Proposed No Det 100- Hydrologic Element Slay - DA - 1 Proposed W/ Det	O.06 YR STC Drainage Area (MI2)	54.25)RM Peak Discharge (CFS)
Slay - DA - 4 Proposed No Det 100- Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det	O.06 YR STC Drainage Area (MI2) 0.13	Peak Discharge (CFS)
Slay - DA - 4 Proposed No Det 100- Hydrologic Element	0.06 YR STC Drainage Area (MI2) 0.13 0.02	54.25 Peak Discharge (CFS) 778.86 86.78
Slay - DA - 4 Proposed No Det Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	0.06 YR STC Drainage Area (MI2) 0.13 0.02 0.04	54.25 Peak Discharge (CFS) 778.86 86.78 122.13
Slay - DA - 4 Proposed No Det Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	0.06 YR STC Drainage Area (MI2) 0.13 0.02 0.04	54.25 Peak Discharge (CFS) 778.86 86.78 122.13
Slay - DA - 4 Proposed No Det Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det	0.06 YR STC Drainage Area (MI2) 0.13 0.02 0.04 0.06	54.25 Peak Discharge (CFS) 778.86 86.78 122.13 283.15
Slay - DA - 4 Proposed No Det Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det Slay - DA - 4 Proposed No Det	0.06 YR STC Drainage Area (MI2) 0.13 0.02 0.04 0.06 0.13	54.25 Peak Discharge (CFS) 778.86 86.78 122.13 283.15 778.86



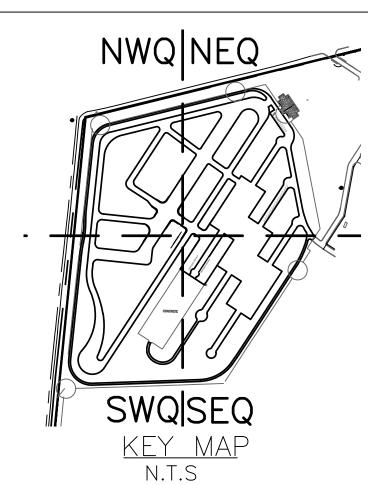


CONSTRUCTION DOCUMENTS

100% Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

OVERALL GRADING

SCALE: 1" = 100' 0 100 200 Feet



NOTES:

1. SEE SHEET C2.0 FOR EXISTING STORM INFRASTRUCTURE DETAILS.

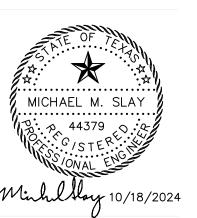
BENCHMARKS:

- SURVEY CONTROL POINT "BH100"
 1/2" IRON ROD WITH CAP NORTHING: 13,663,689.06 EASTING: 2,128,794.78 ELEV: 609.23'
- SURVEY CONTROL POINT "BH102" MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'
- SURVEY CONTROL POINT "BH103"
 MAG NAIL WITH WASHER NORTHING: 13,662,380.92 EASTING: 2,127,237.64 ELEV: 602.12'

LEGEND --- PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING EDGE OF ASPHALT EXISTING CHAINLINK FENCE EXISTING OVERHEAD ELECTRIC LINE EXISTING FIRE HYDRANT EXISTING POWER POLE EXISTING GUY WIRE EXISTING WATER VALVE EXISTING WATER METER EXISTING GAS VALVE EXISTING SIGN EXISTING SPRINKLER VALVE EXISTING TREE EXISTING SPOT ELEVATION PROPOSED CURB BENCHMARK MATCH LINE X-X



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Laredo, Texas 78045
T: 956.791.0405

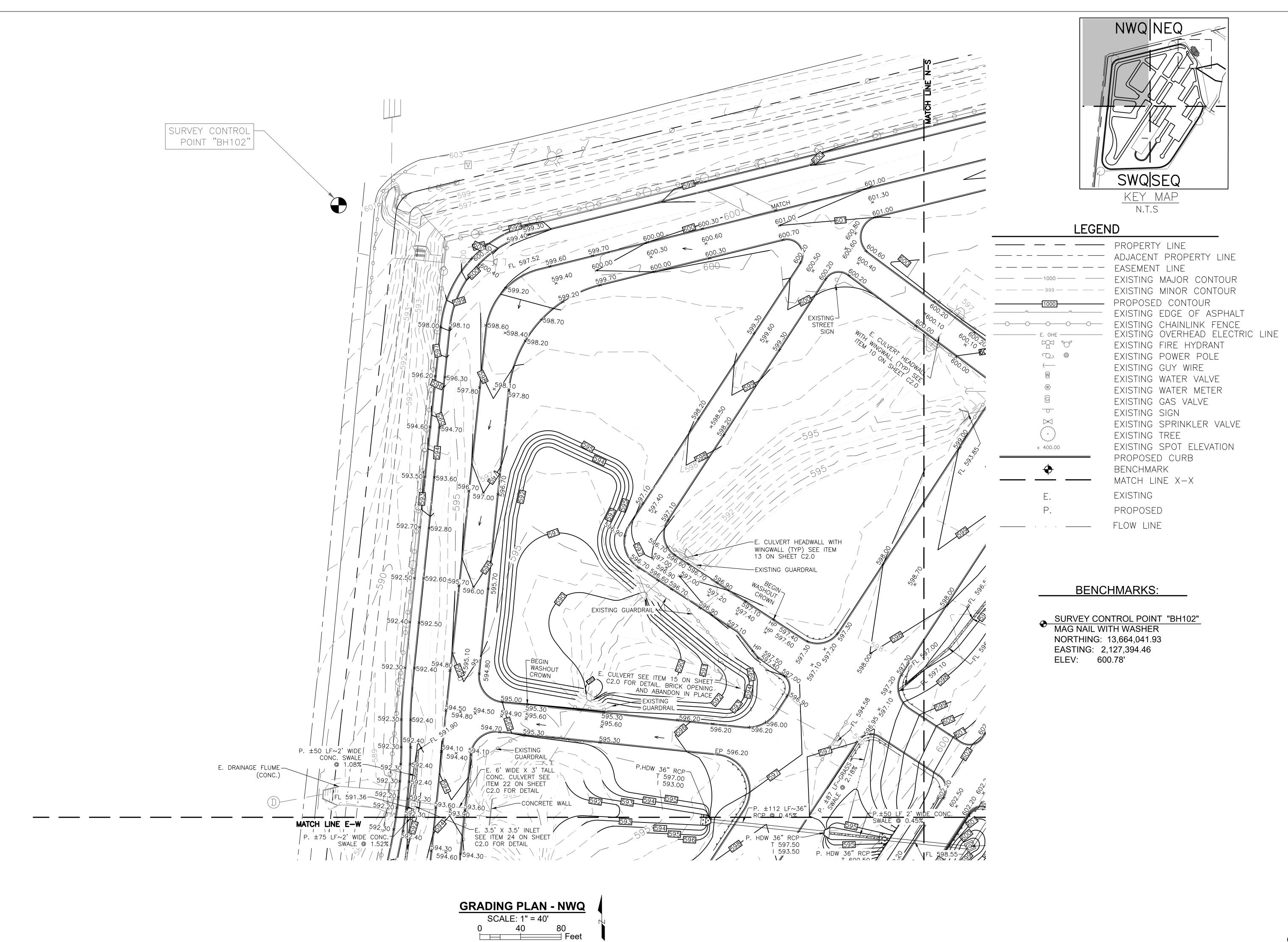


DOCUMENTS

Project NO.: 22028

Drainage Comments - 2/24/25

OVERALL GRADING



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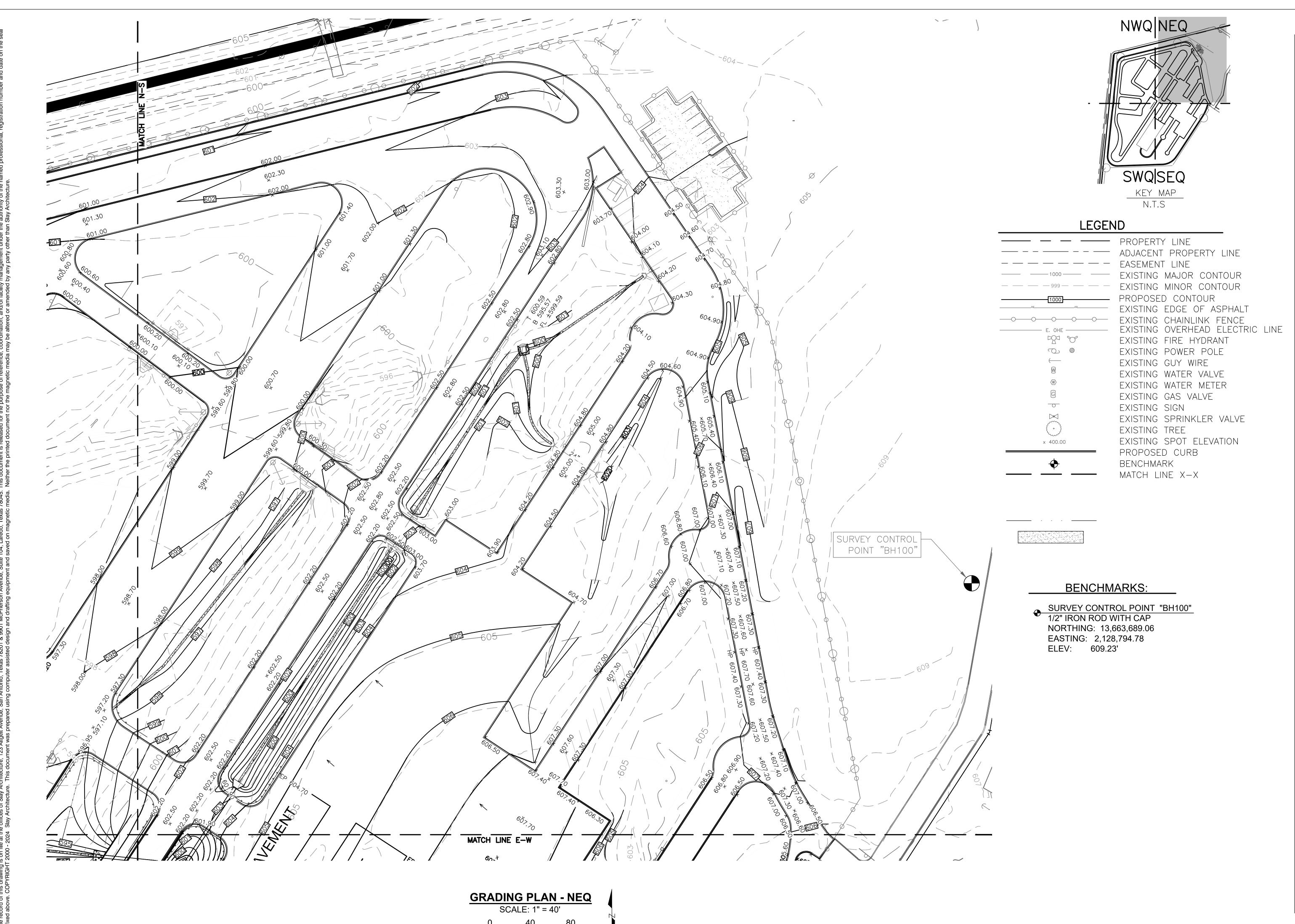
MICHAEL M. SLAY

100% Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

DOCUMENTS

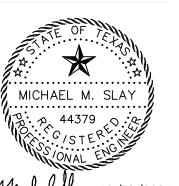
CONSTRUCTION

GRADING PLAN - NWQ





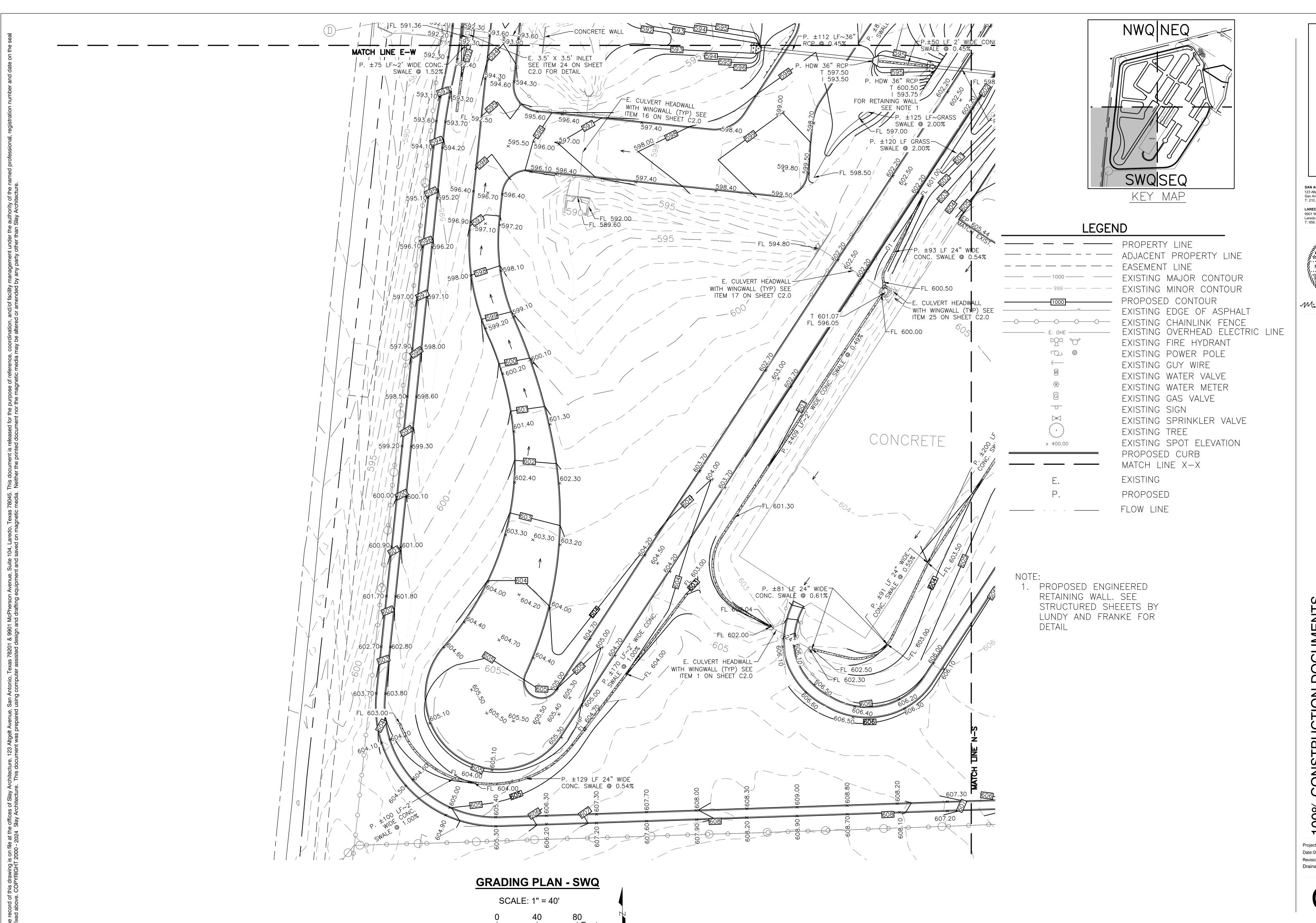
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DOCUMENTS CONSTRUCTION 100%

Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

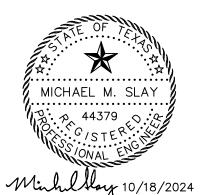
GRADING PLAN - NEQ



ARCHITECTURE

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123 Altgelt Avenue
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T: 210.736.3009

LAREDO
9901 McPherson Avenue, #104
Laredo, Texas 78045
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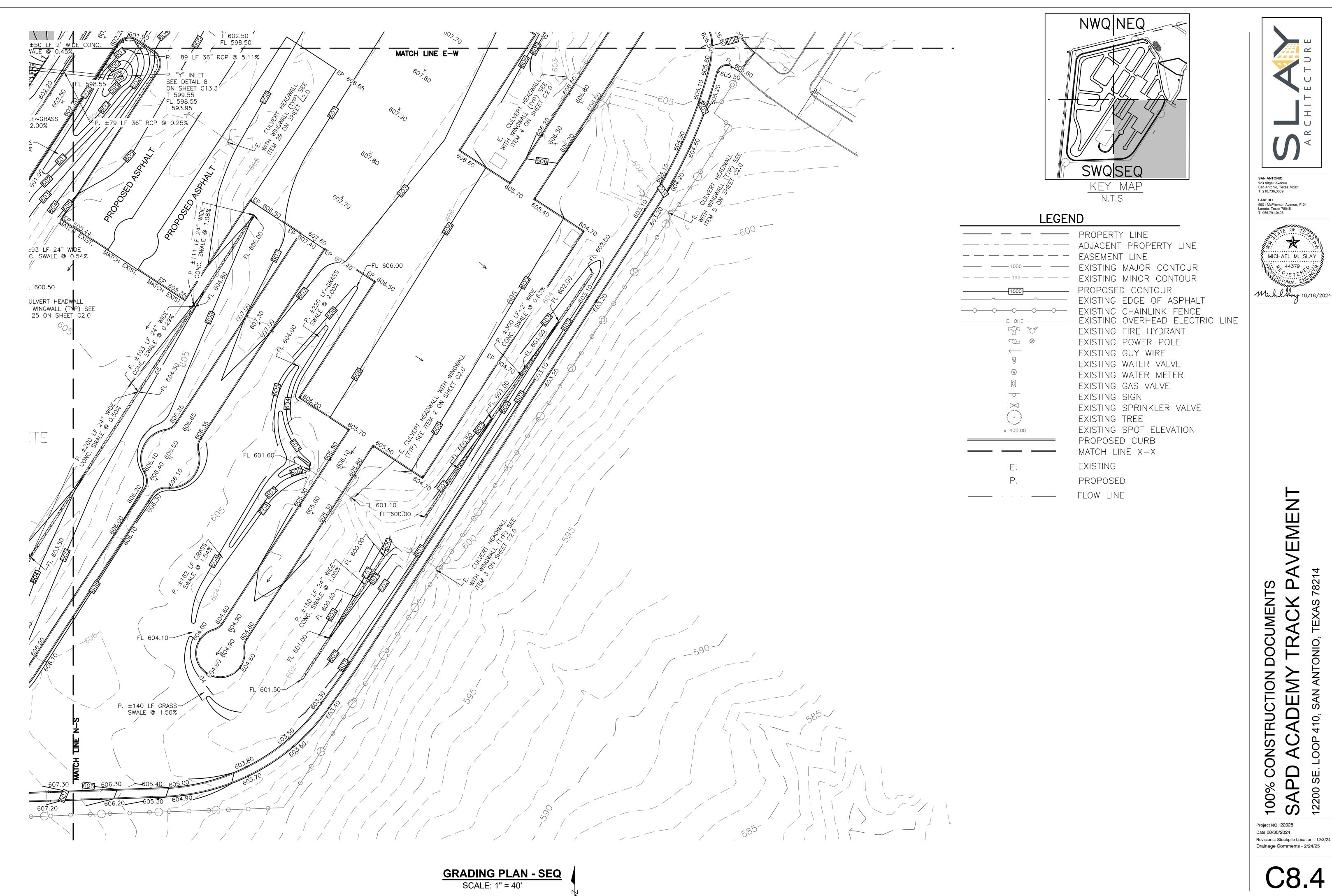


100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRACK PAVEMENT

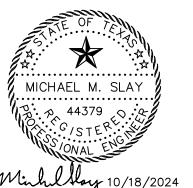
Project NO.: 22028
Date: 08/30/2024
Revisions: Stockpile Location - 12/3/24
Drainage Comments - 2/24/25

C8.3

GRADING PLAN - SWQ

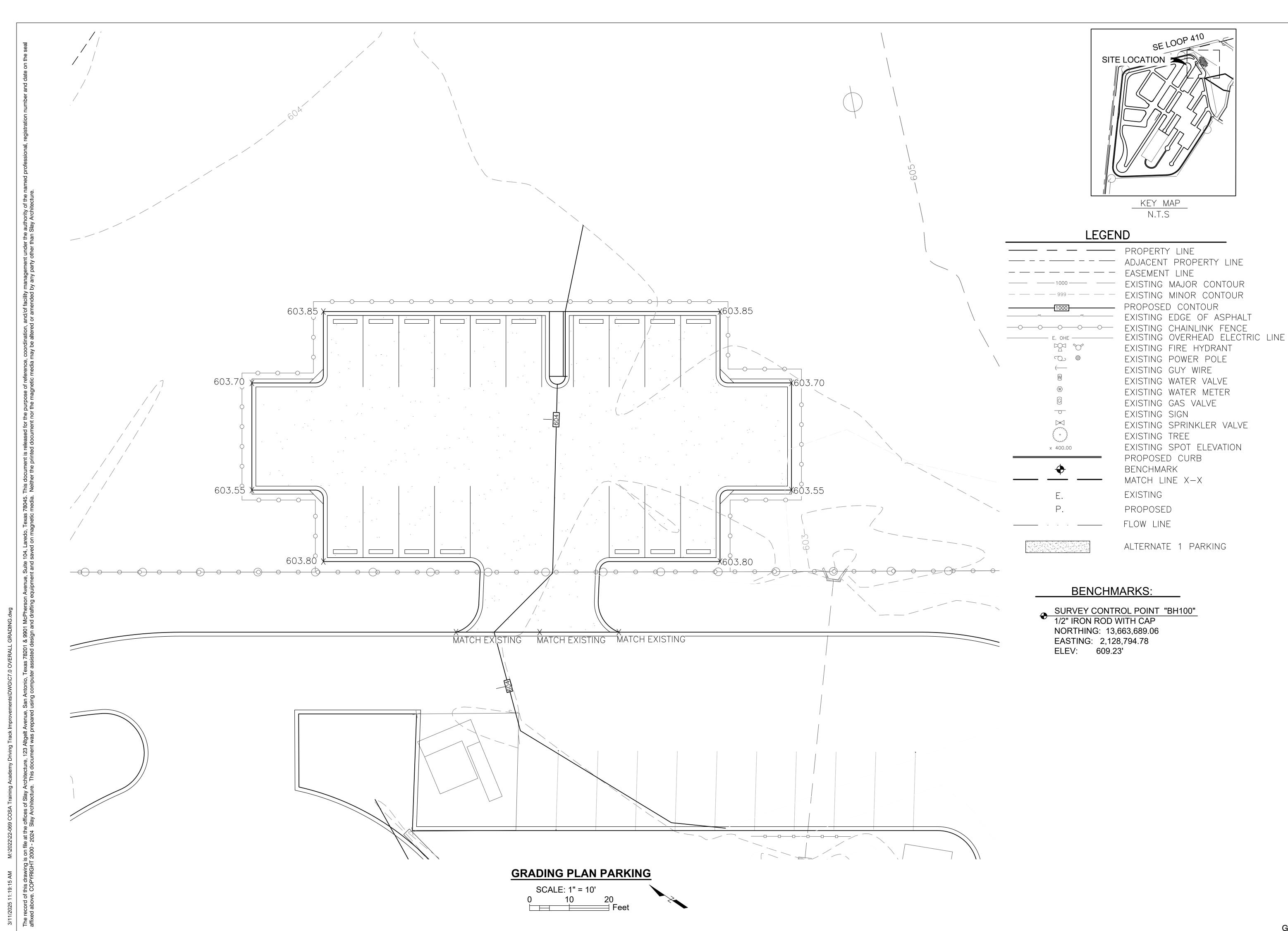


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DOCUMENTS CONSTRUCTION 100% Project NO.: 22028

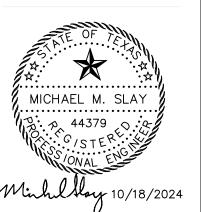
GRADING PLAN - SEQ





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100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRACK PAV

Project NO.: 22028

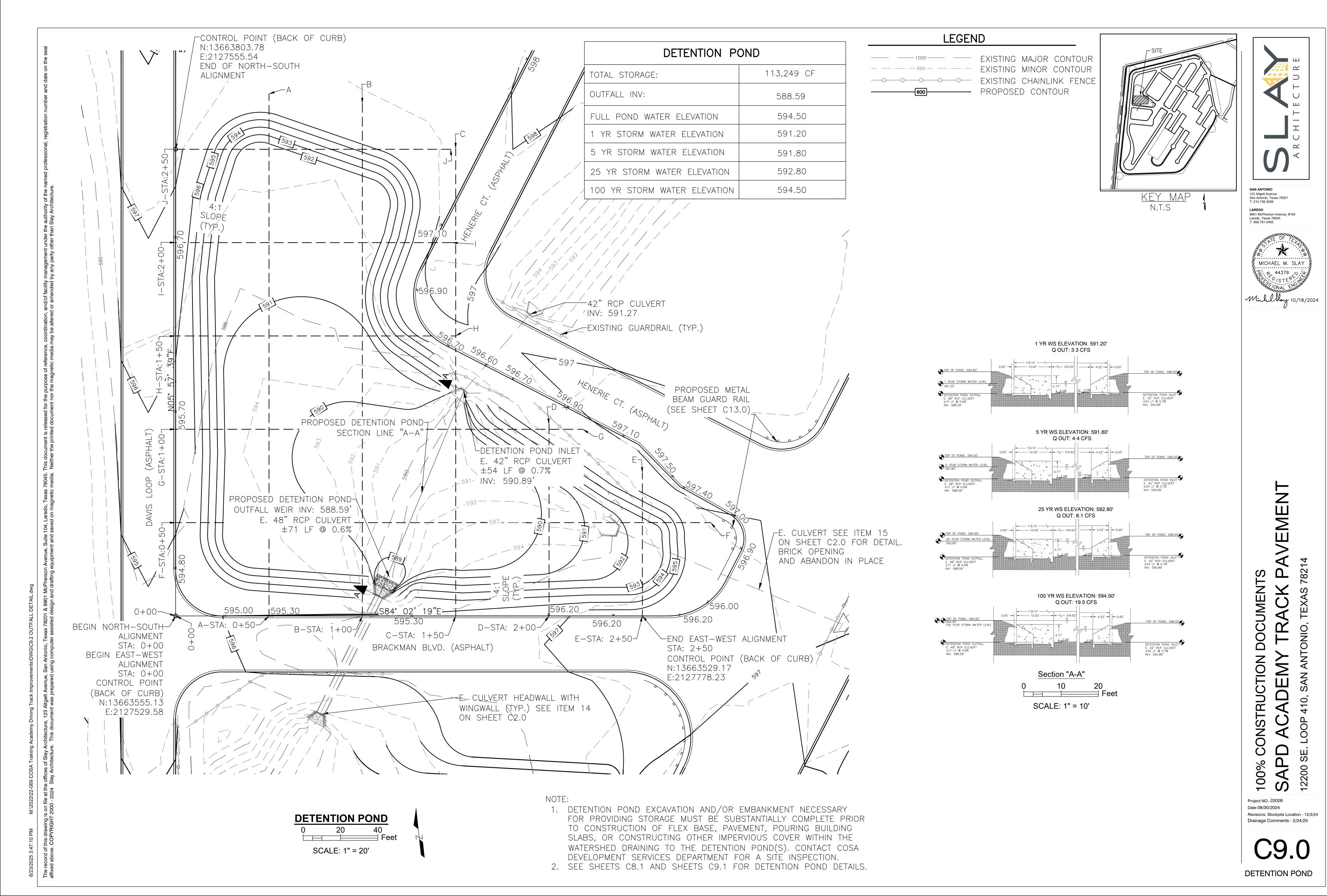
Date: 08/30/2024

Revisions: Stockpile Location - 12/3/24

Drainage Comments - 2/24/25

C8.5

GRADING PLAN PARKING



DETENTION POND OUTFALL DETAIL

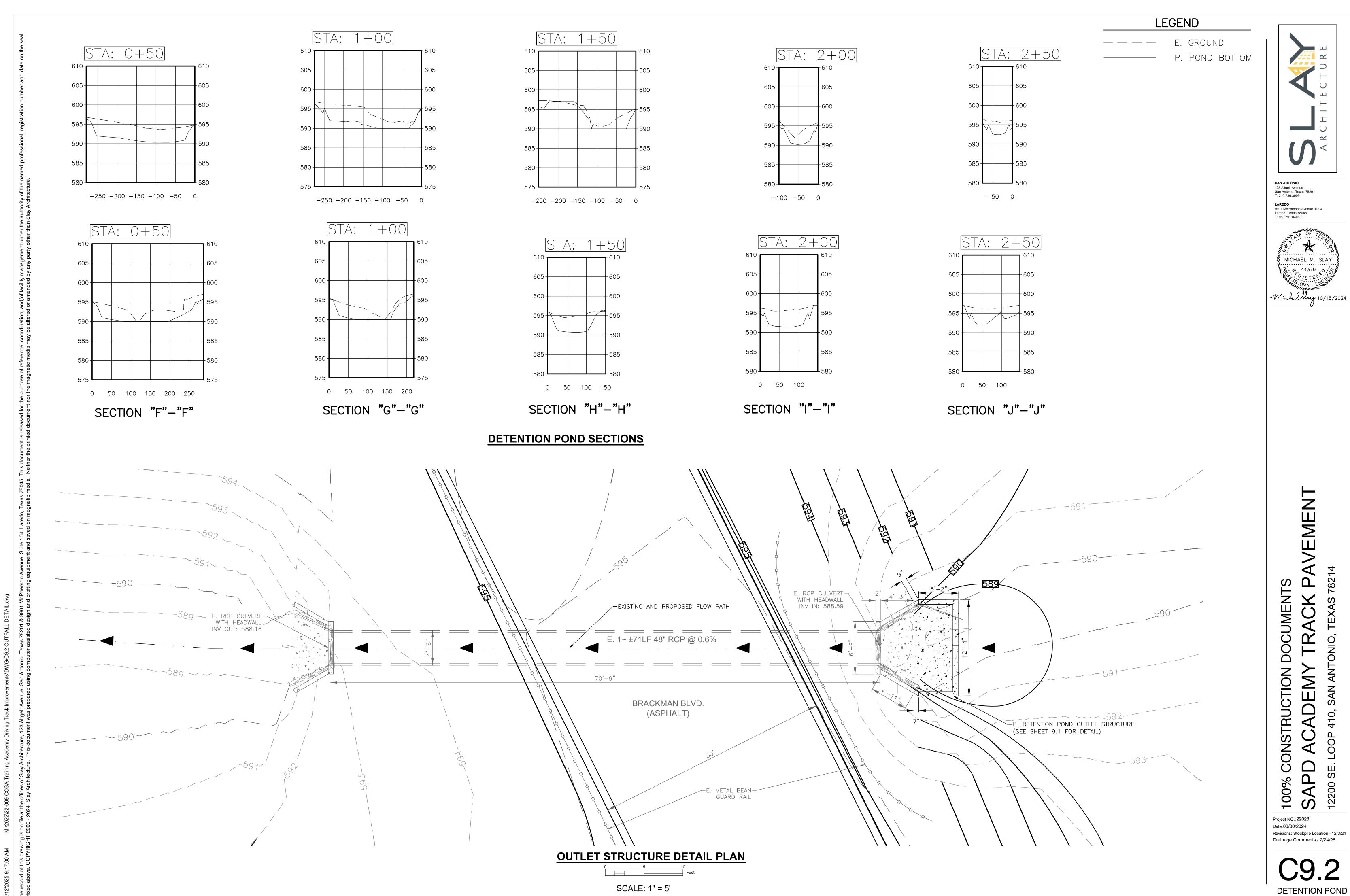
NOT TO SCALE

1. DETENTION POND EXCAVATION AND/OR EMBANKMENT NECESSARY FOR PROVIDING STORAGE MUST BE SUBSTANTIALLY COMPLETE PRIOR TO CONSTRUCTION OF FLEX BASE, PAVEMENT, POURING BUILDING SLABS, OR CONSTRUCTING OTHER IMPERVIOUS COVER WITHIN THE WATERSHED DRAINING TO THE DETENTION POND(S). CONTACT COSA DEVELOPMENT SERVICES DEPARTMENT FOR A SITE INSPECTION.

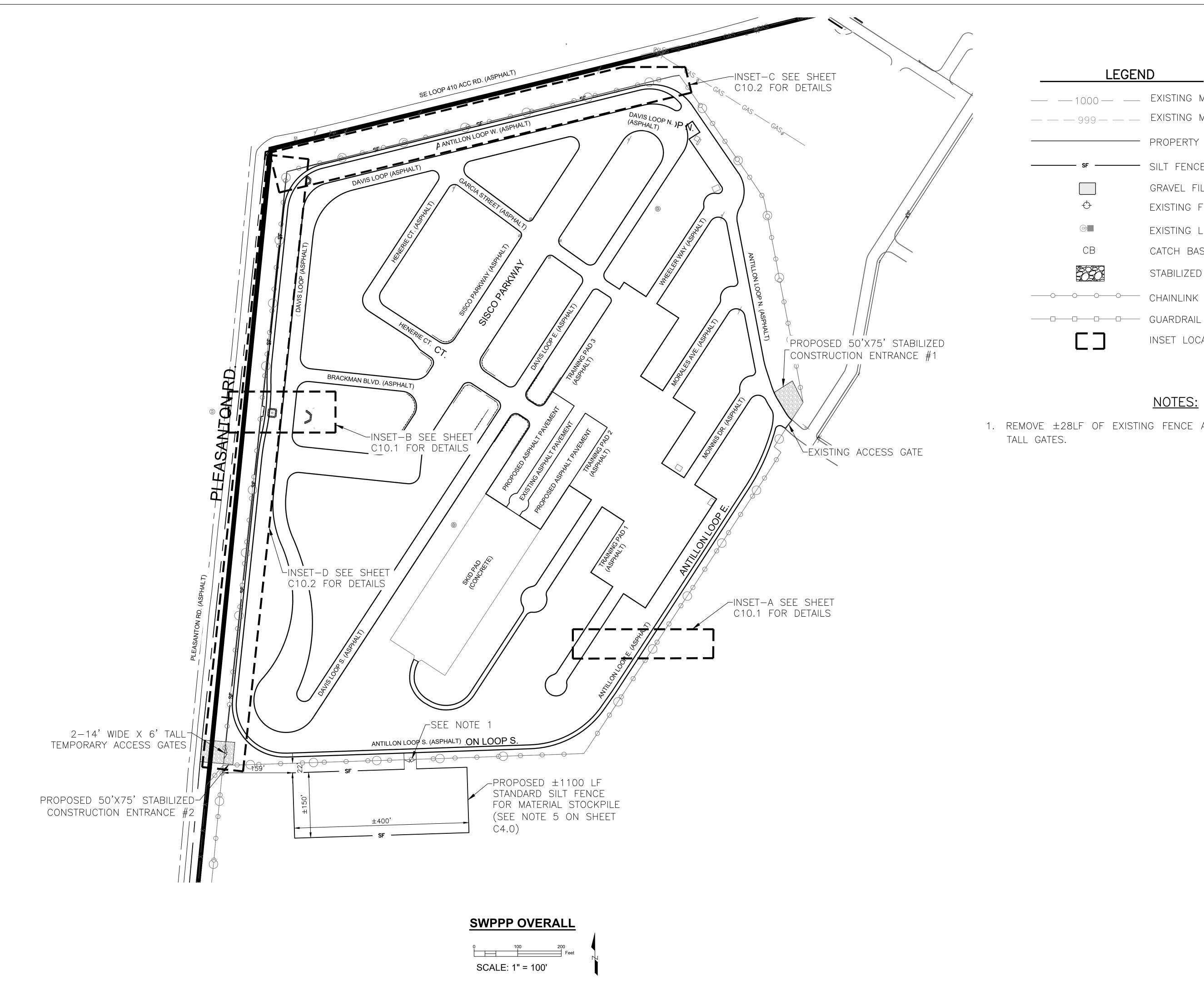
100% CONSTRUCTION DOCUMENTS SAPD ACADEMY TRACK P 12200 SE. LOOP 410, SAN ANTONIO, TEXAS 782

Drainage Comments - 2/24/25

Project NO.: 22028



DETENTION POND SECTIONS



____ 1000 ___ EXISTING MAJOR CONTOUR __ _ _ 999 _ _ _ EXISTING MINOR CONTOUR

- PROPERTY LINE

SILT FENCE

GRAVEL FILTER BAG (GFB) EXISTING FIRE HYDRANT

EXISTING LIGHT POLE

CATCH BASIN

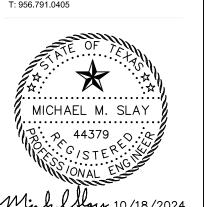
STABILIZED CONSTRUCTION ENTRANCE

INSET LOCATION

NOTES:

1. REMOVE ± 28 LF OF EXISTING FENCE AND INSTALL 2-14 WIDE X 6'

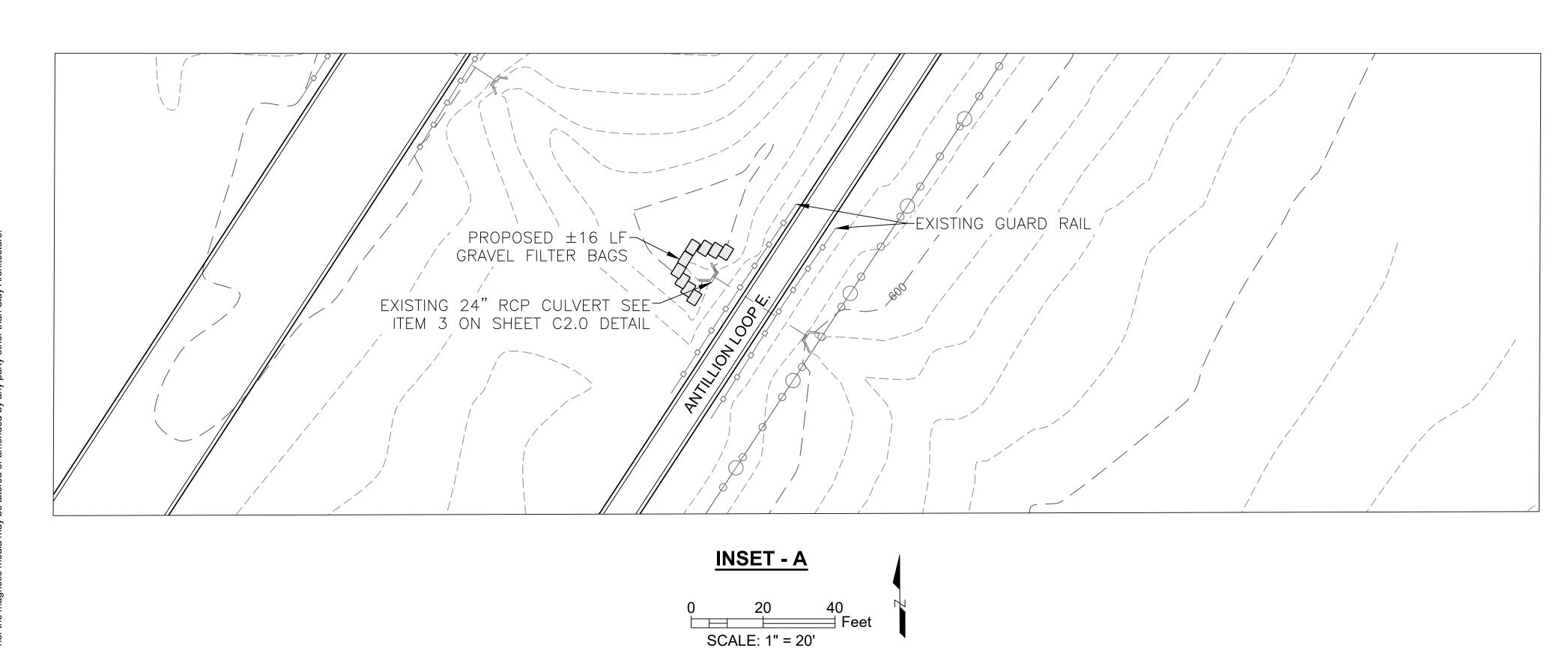
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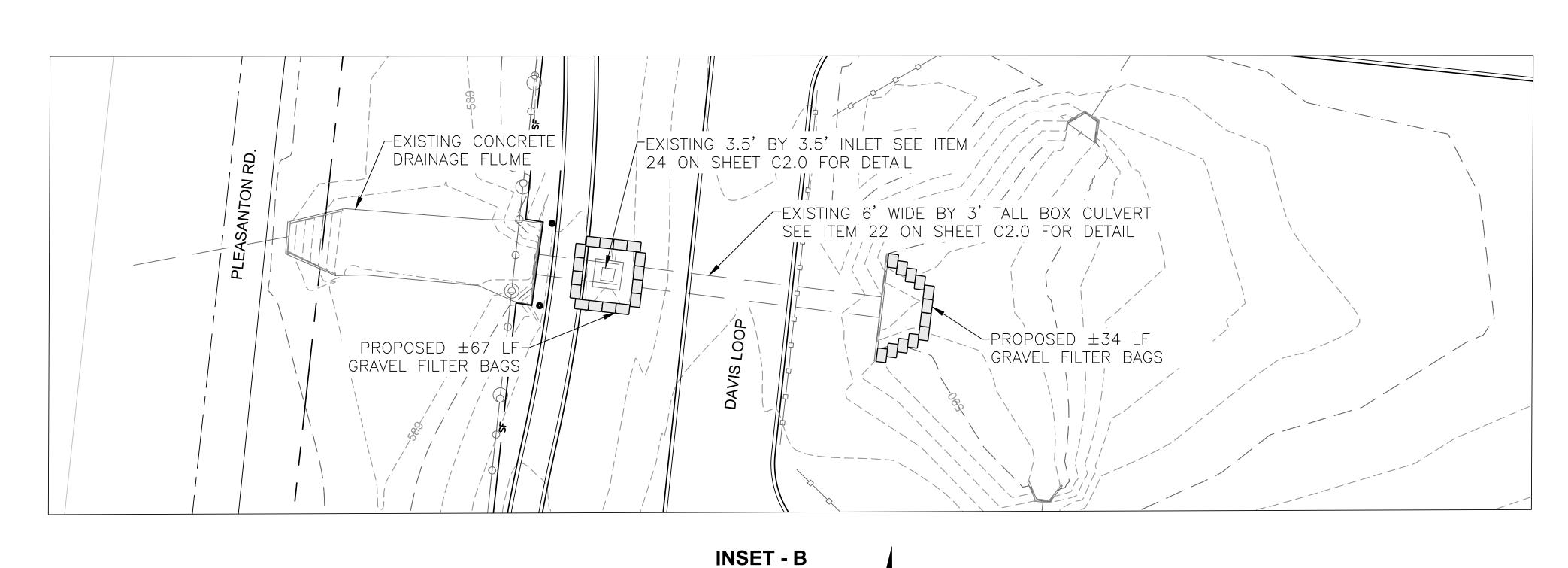


VEMENT 100% CONSTRUCTION DOCUMENTS Project NO.: 22028 Date:08/30/2024

SWPPP OVERALL

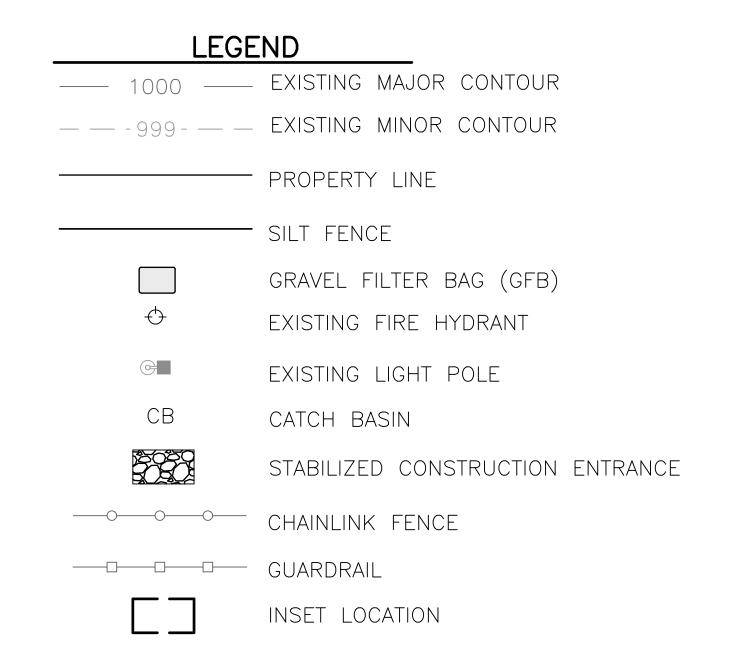
Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25





0 20 40 Feet

SCALE: 1" = 20'



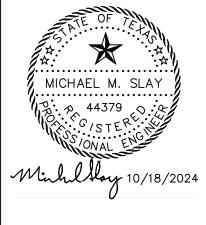
NOTES:

- 1. THIS PLAN IS FOR STORM WATER POLLUTION PREVENTION PURPOSE/EROSION CONTROL. ALL OTHER INFORMATION SHOWN HEREON IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE
- 2. THE LOCATION OF THE EROSION CONTROL DEVICES SHOWN ARE APPROXIMATE AND TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE DEVICES TO MINIMIZE ANY INTERFERENCE WITH CONSTRUCTION. ANY RELOCATION OF THE DEVICES FOR ANY REASON IS AT THE CONTRACTORS EXPENSE.
- 3. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS PLAN SHEET AND THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING STORM WATER POLLUTION PREVENTION AND EROSION CONTROL. CONTRACTOR SHALL SUBMIT ALL REQUIRED FORMS AND DOCUMENTS TO THE APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCIES.
- 5. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND AFTER ALL MAJOR RAIN EVENTS OR MORE FREQUENTLY AS NEEDED.

SW3P BEST MANAGEMENT PRACTICES (BMP) PROJECT PHASING

- 1. INSTALL ALL SW3P BMP ITEMS.
- 2. PROTECT TREES TO REMAIN. DEMOLISH/SAWCUT SELECTED CONCRETE AND REMOVE DESIGNATED TREES.
- 3. PERFORM MASS GRADING & INSTALL UTILITIES TO SITE & BUILDING.
- 4. CONSTRUCT BUILDING, PAVING AND LANDSCAPING.
- 5. AFTER VEGETATION HAS 70% COVERAGE, REMOVE SW3P BMP ITEMS.

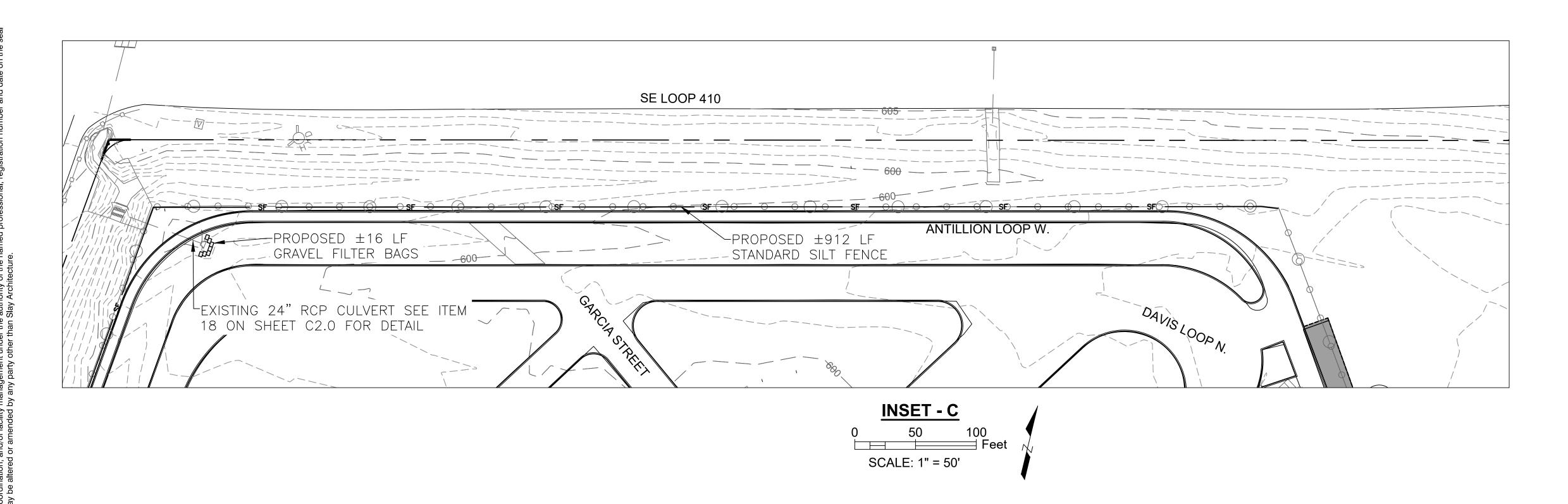


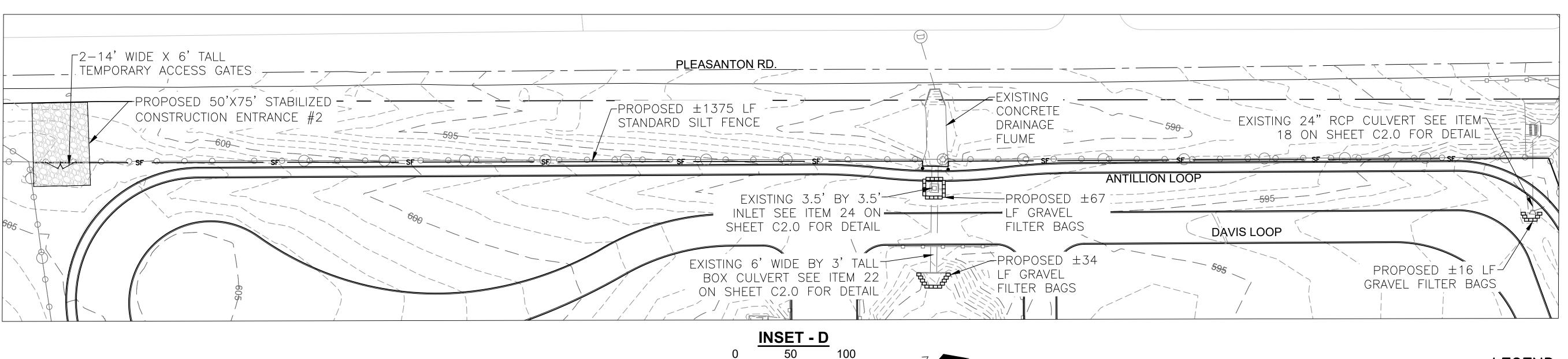


CONSTRUCTION 100% Project NO.: 22028 Date:08/30/2024 Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

DOCUMENTS

SWPPP PLAN





SCALE: 1" = 50'

NOTES:

- 1. THIS PLAN IS FOR STORM WATER POLLUTION PREVENTION PURPOSE/EROSION CONTROL. ALL OTHER INFORMATION SHOWN HEREON IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE.
- 2. THE LOCATION OF THE EROSION CONTROL DEVICES SHOWN ARE APPROXIMATE AND TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE DEVICES TO MINIMIZE ANY INTERFERENCE WITH CONSTRUCTION. ANY RELOCATION OF THE DEVICES FOR ANY REASON IS AT THE CONTRACTORS EXPENSE.
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- 4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING STORM WATER POLLUTION PREVENTION AND EROSION CONTROL. CONTRACTOR SHALL SUBMIT ALL REQUIRED FORMS AND DOCUMENTS TO THE APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCIES.
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SW3P BEST MANAGEMENT PRACTICES (BMP) PROJECT PHASING

- 1. INSTALL ALL SW3P BMP ITEMS.
- 2. PROTECT TREES TO REMAIN. DEMOLISH/SAWCUT SELECTED CONCRETE AND REMOVE DESIGNATED TREES.
- 3. PERFORM MASS GRADING & INSTALL UTILITIES TO SITE & BUILDING.
- 4. CONSTRUCT BUILDING, PAVING AND LANDSCAPING.
- 5. AFTER VEGETATION HAS 70% COVERAGE, REMOVE SW3P BMP ITEMS.

LEGEND

_____ 1000 ____ EXISTING MAJOR CONTOUR — — -999- — EXISTING MINOR CONTOUR

PROPERTY LINE

SILT FENCE

GRAVEL FILTER BAG (GFB)

EXISTING FIRE HYDRANT

EXISTING LIGHT POLE

CATCH BASIN

STABILIZED CONSTRUCTION ENTRANCE

CHAINLINK FENCE GUARDRAIL

INSET LOCATION

Drainage Comments - 2/24/25

123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

9901 McPherson Avenue, #104

/EMENT

DOCUMENTS

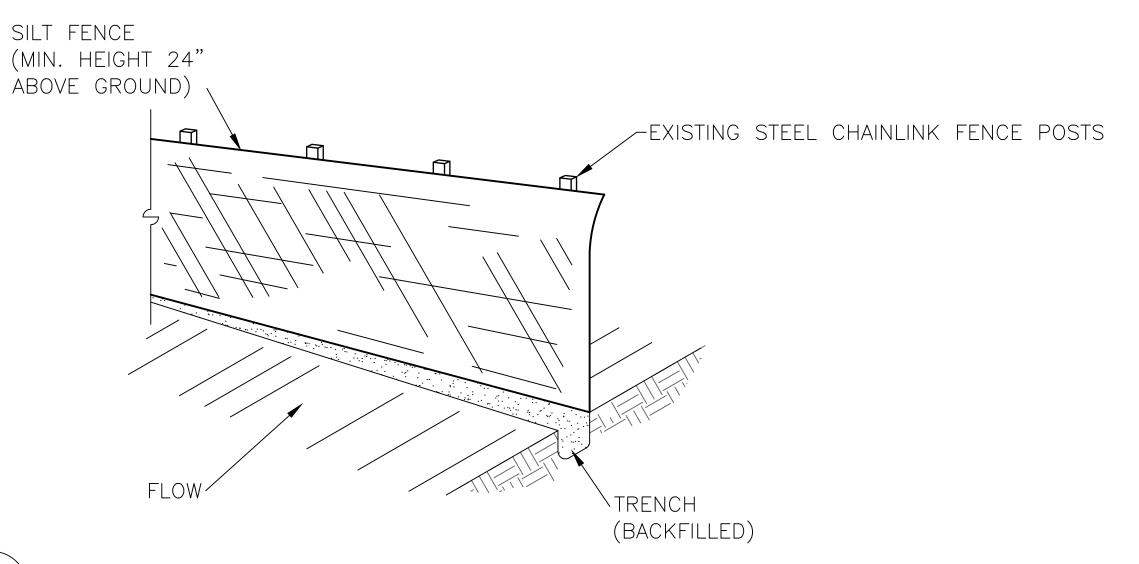
CONSTRUCTION

100%

Project NO.: 22028 Date:08/30/2024

SWPPP PLAN

Revisions: Stockpile Location - 12/3/24



GENERAL NOTES:

- 1. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF THE FLOW.
- 2. THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND A MINIMUM OF 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
- 3. SILT FENCE SHOULD BE SECURELY FASTENED TO EXISTING CHAINLINK FENCE, WHICH IS IN TURN ATTACHED TO THE EXISTING STEEL FENCE POSTS.
- 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 5. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 6. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS STATED IN NO. 7 ABOVE.

工

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VEMEN

DOCUMENTS

CONSTRUCTION

100%

Project NO.: 22028

STANDARD SILT FENCE

NOT TO SCALE

GENERAL NOTES

- 1. STONE SIZE -- 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN
- 2. LENGTH -- AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- 3. THICKNESS -- NOT LESS THAN 8 INCHES.
- 4. WIDTH -- NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 5. WASHING -- WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
- 6. MAINTENANCE -- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDTIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

\c10.3/

50' MINIMUM EXISTING GROUND <u>PLAN</u> PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION

ENTRANCE AND ROAD WAY

MUST BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION 50' MINIMUM PUBLIC RIGHT-OF-WAY EXISTING **PROFILE** GROUND '

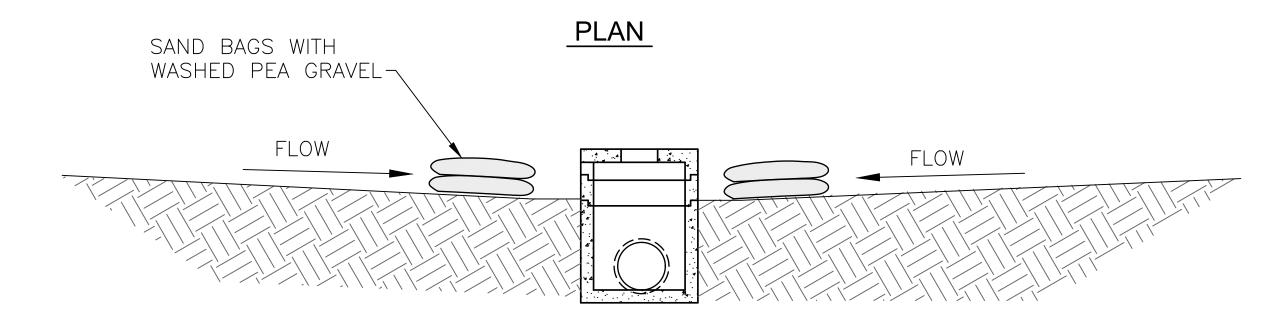
STABILIZED CONSTRUCTION ENTRANCE AND EXIT (SCE)

NOT TO SCALE

C10.3

SWPPP DETAILS

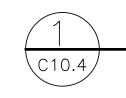
Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25



PROFILE

GENERAL NOTES:

- 1. USE ONLY PEA GRAVEL FILLER.
- 2. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAIN. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY OR AS NEEDED BY THE CONTRACTOR.
- 3. REMOVE SEDIMENT BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 4. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.



GRAVEL FILTER BAGS AROUND AREA INLET

NOT TO SCALE



LEGEND:

----- PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING WHITE PAINT STRIPE EXISTING WHITE PAINT STRIPE DASHED EXISTING EDGE OF ASPHALT — e. gas — e. gas — EXISTING GAS LINE — p. uge — PROPOSED TRAFFIC SIGNAL CONDUIT EXISTING FIRE HYDRANT EXISTING GUY WIRE EXISTING SANITARY SEWER MANHOLE EXISTING STORM DRAIN MANHOLE EXISTING SIGN EXISTING SPRINKLER VALVE EXISTING TREE 4" SLEEVE W/ PULL BOX EACH END (UNLESS OTHERWISE SPECIFIED)

BENCHMARKS:

- SURVEY CONTROL POINT "BH102" MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'
- SURVEY CONTROL POINT "BH103" MAG NAIL WITH WASHER NORTHING: 13,662,380.92 EASTING: 2,127,237.64 ELEV: 602.12'
- SURVEY CONTROL POINT "BH100" 1/2" IRON ROD WITH CAP NORTHING: 13,663,689.06 EASTING: 2,128,794.78 ELEV: 609.23'

MBGF NOTES:

1. SEE SHEET C13.0 FOR METAL BEAM GUARD FENCE DETAIL.

-±34 LF~2-4" PVC

PULL BOX EACH END

SLEEVES WITH

UTILITY CONSTRUCTION NOTE

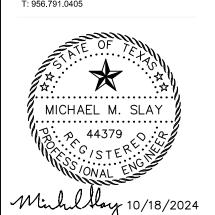
- 1. FOR UTILITY CONSTRUCTION, ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY COSA & SAPD.
- 2. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. ACTUAL DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL REPAIR EXISTING PAVEMENT REMOVED FOR 2" UGE.
- 4. CONTRACTOR SHALL LOCATE PULL BOXES MINIMUM 10' FROM EDGE OF PAVEMENT EACH WAY.

TRAFFIC SIGNAL NOTES:

- 1. CONTRACTOR SHALL INCLUDE IN BASE BID THE PROPOSED INSTALLATION OF TRAFFIC SIGNALS, POLES, SPAN WIRE, CONDUIT, WIRE AND ATTENUATION BARRELS AROUND EACH POLE AT SISCO PARKWAY AND HENERIE COURT.
- 2. CONTRACTOR SHALL INCLUDE IN BASE BID THE PROPOSED INSTALLATION OF 2" CONDUIT AND PULL BOX FROM THE PROPOSED SIGNAL AT SISCO PARKWAY AND HENERIE COURT TO THE EXISTING SIGNAL AT SISCO PARKWAY AND GARCIA STREET TO A PROPOSED PULL BOX AND CONTINUING TO A PULL BOX AT THE BASE OF THE PROPOSED OBSERVATION TOWER.
- 3. CONTRACTOR SHALL INCLUDE IN THE BASE BID THE COST TO REMOVE THE EXISTING CONTROLLER AND ANCILLARY ITEMS FOR THE EXISTING TRAFFIC SIGNAL.
- 4. CONTRACTOR SHALL CONSTRUCT A TRAFFIC SIGNAL SYSTEM THAT OPERATES BOTH THE PROPOSED SIGNAL AND EXISTING SIGNAL FROM A CONTROLLER LOCATED WITHIN THE OBSERVATION TOWER.
- 5. THE \$160,000 ALLOWANCE PROVIDED IN THE BID SHALL PROVIDE FOR A NEW 2070LX CONTROLLER IN SPECIAL 336 MC CAIN TRAFFIC CONTROL CABINET, SIMULATOR/POLICE PANEL, RELAYS, HARDENED POWER SUPPLY, WIRELESS BRIDGE UNIT AND ALL ANCILLARY ITEMS NÉCESSARY FOR A FULLY OPERATIONAL TRAFFIC CONTROL SYSTEM THAT OPERATES BOTH TRAFFIC SIGNALS FROM THE OBSERVATION TOWER.
- 6. CONTRACTOR SHALL INCLUDE IN THE BASE BID 6 ATTENUATION BARRELS AS SPARES FOR SAN ANTONIO POLICE DEPARTMENT (SAPD).



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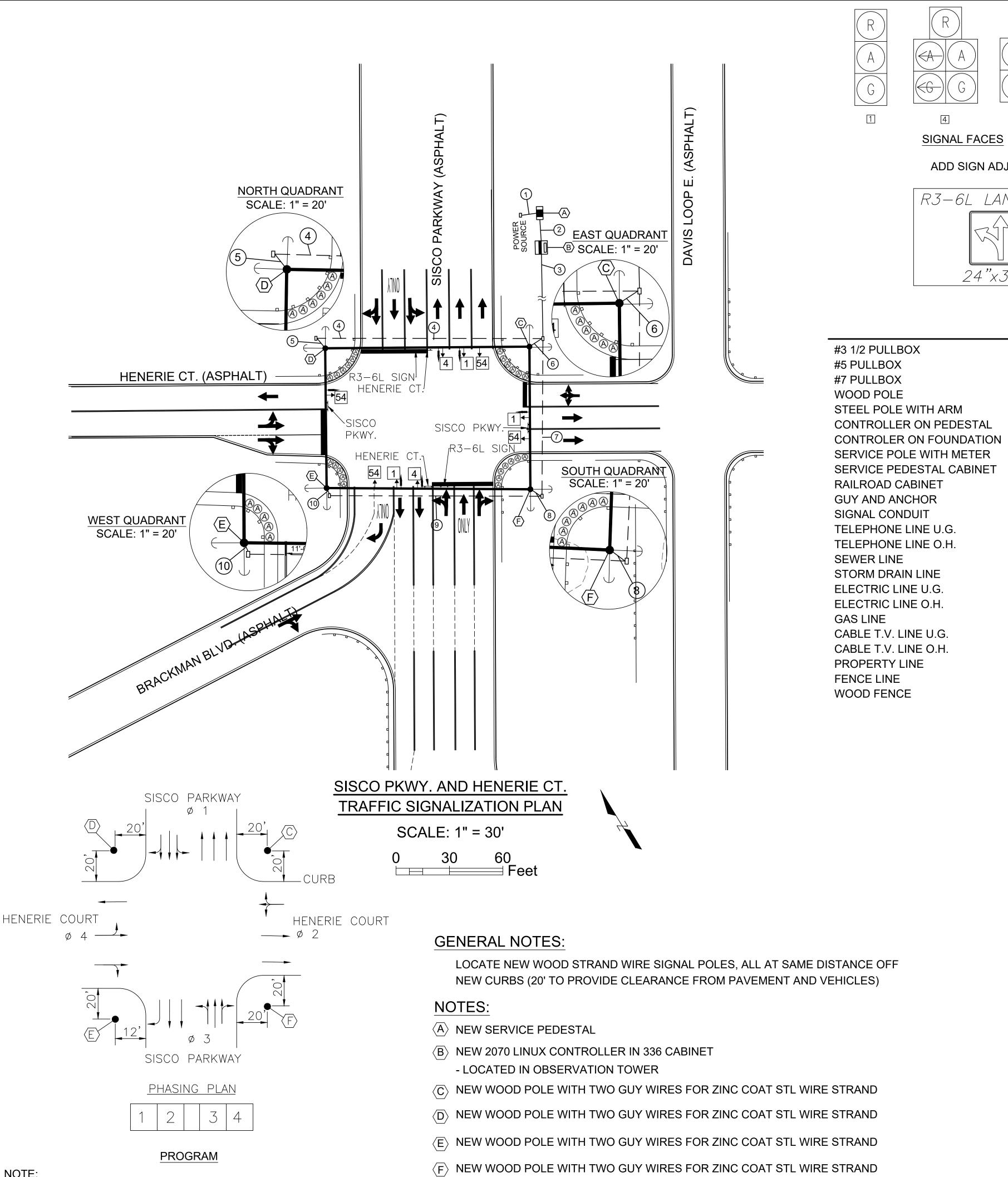


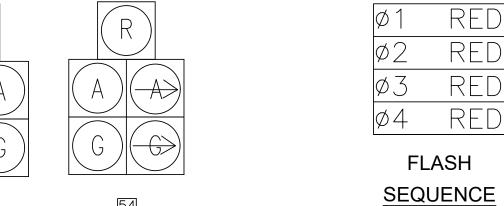
VEMEN

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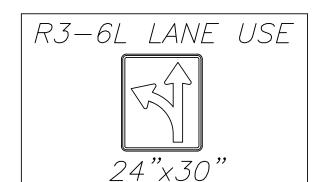
Project NO.: 22028 Date:08/30/2024

Drainage Comments - 2/24/25



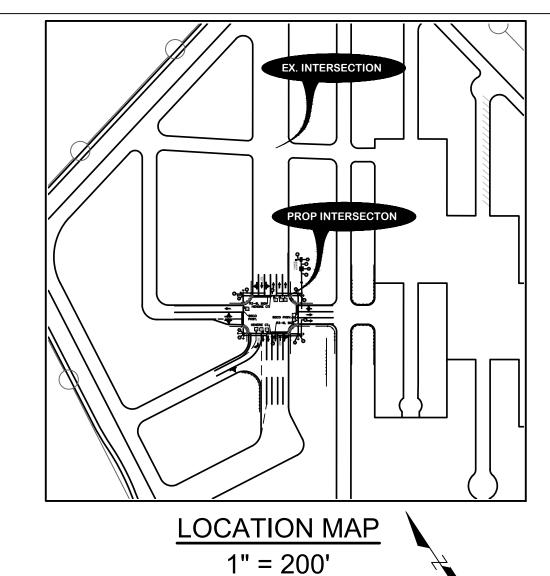


ADD SIGN ADJACENT EACH SIGNAL HEAD ON MAST ARM:





(ALL RED)



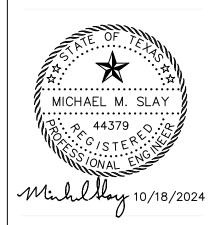
SIGNALIZATION LEGEND

#3 1/2 PULLBOX	\Diamond	STREET LIGHT WITH ARM	<u> </u>
#5 PULLBOX		TRAFFIC SIGNAL ON SPAN	
#7 PULLBOX		TRAFFIC SIGNAL ON ARM	↓
WOOD POLE	0	TRAFFIC WITH BACKPLATE	‡
STEEL POLE WITH ARM	<u> </u>	COMBINATION ST. LIGHT/SIGNAL POLE	↓
CONTROLLER ON PEDESTAL	•	SIGNAL WITH LEFT TURN ARROW	±
CONTROLER ON FOUNDATION		PEDESTRIAN SIGNAL ON POLE	우급
SERVICE POLE WITH METER	ф	PEDESTRIAN SIGNAL AND BUTTON ON POLE	\$
SERVICE PEDESTAL CABINET		FLASHING SIGNAL AMBER	\longleftarrow
RAILROAD CABINET	(RR)	FLASHING SIGNAL RED	\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
GUY AND ANCHOR		POLE IDENTIFIER	(A)
SIGNAL CONDUIT		CONDUIT IDENTIFIER	① [1]
TELEPHONE LINE U.G.	—— т ——	SIGNAL HEAD IDENTIFIER	
TELEPHONE LINE O.H.	——— OH T ———	PEDESTRIAN BUTTON ON SIGNAL POLE	Q
SEWER LINE	s		6 L
STORM DRAIN LINE	SD	LOOP IDENTIFIER	PHASE — LANE -
ELECTRIC LINE U.G.	——— E ———		SET-
ELECTRIC LINE O.H.	——— O.H. E ———	MAST ARM	
GAS LINE	G	CAMERA DETECTION	
CABLE T.V. LINE U.G.	CATV	ATTENUATION BARRELS	(A)
CABLE T.V. LINE O.H.	——— O.H. TV ———		

	TR	AFFIC SIG	<u>GN</u>	IAL	_IZ	[A]	ГΙС	N		_	C	NC	Dl	JIT	- (SC	HE	ED	UL	E						
	SAPI	O TRAINING	AC	AD	EM	Υ	DR	F(NVI	OR VG	TF	RAC	cK,	SA	λN	٨N	ITO	NIC), ·	TE>	XAS	3					
	CONDUIT RUN N		1	2	3	4	5	6	7	8		10														
CONDUIT SIZE IN INCHES		(2) 2	2	(2) 3	3	3	3	3	3	3	3															
	CONDUIT RUN	TYPE	Т	Т	Т	Т	Т	Τ	Т	Т	Τ	Т		E-E	XIST	ING		В	B-B(DRE)	•	T-1	REN	CHE)
IMSA	SIGNALS: Ø 3	FROM © POLE			1			1																		
CABLE	SIGNALS: Ø 2	FROM D POLE			1	1	1																			
#14 7-COND.	SIGNALS: Ø 1	FROM (E) POLE			1				1		1	1														
	SIGNALS: Ø 4	FROM F POLE			1				1	1																
IMSA		<u>©</u>																								
CABLE #14 9-COND.		<u>D</u>																								
9-COND.		(E)																								
		⟨F⟩																								
#8 SOLID BARE	BARE BOND GROUND)	+	1	1	1	1	1	1	1	1	1														
#6	120 V POWER HOT		+	1																						
#6 THWN	120 V POWER GROU	JND	+	1																						
2 IN 1 COMM.																										
CABLE & POWER																										
SUPPLY																			_					+	\perp	
SSR																										
COMM. CABLE	COMMUNICATION CA	BLE																								

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VEMEN **DOCUMENTS** CONSTRUCTION

Drainage Comments - 2/24/25

Revisions: Stockpile Location - 12/3/24

100%

Date:08/30/2024

TRAFFIC SIGNAL

- © REFER TO SHEET C12.0 FOR CONDUIT TO OBSERVATION TOWER

INTERSECTION SIGNALS CAN BE PROGRAMMED WITH

THROUGH TRAFFIC AND PERMISSIVE LEFT TURNS.

LEGEND:

PROPERTY LINE
ADJACENT PROPERTY LINE
ADJACENT PROPERTY LINE
EASEMENT LINE
EXISTING WHITE PAINT STRIPE
EXISTING WHITE PAINT STRIPE DASHED
EXISTING EDGE OF ASPHALT
EXISTING CHAINLINK FENCE

STRIPING NOTES:

- 1. A STRIPING SHALL BE USED TO INDICATE PARKING SPACES, NO PARKING, AND LANE STRIPING AREA. PARKING SPACE SHALL BE INDICATED BY FOUR INCHES (4") PAINTED WHITE STRIPED, NINE FEET TO TEN FEET (9'-10') ON CENTER. NO PARKING AREA SHALL BE NOTED BY 4 INCH WHITE LINES WITH FORTY-EIGHT INCHES (48") SEPARATION, PAINTED DIAGONALLY ACROSS THE AREA. LANE STRIPING SHALL BE FOUR FEET (4') PAINTED WHITE STRIPING. UNLESS OTHERWISE SPECIFIED.
- 2. ALL 4" STRIPING IS WHITE UNLESS OTHERWISE SPECIFIED.

TOTAL STRIPING LENTGTHS:

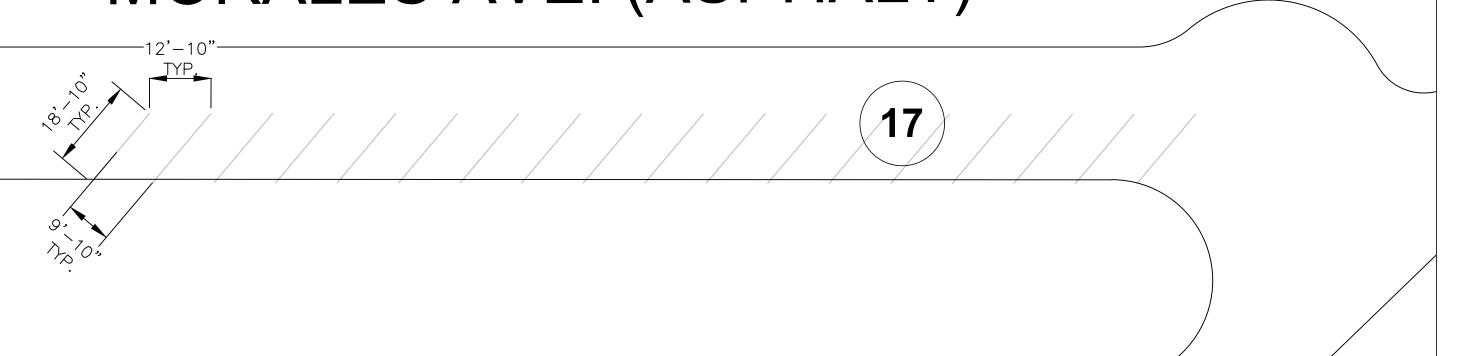
- 1. 4" WHITE (SOLID LINE) 12,249 LF
- 2. 4" WHITE (DASHED LINE) 4741 LF
- 3. 4" YELLOW (SOLID LINE) 846 LF
- 4. 12" WIDE WHITE-STOP BAR- 301 LF

MORALES AVE. (ASPHALT)

-4" WIDE WHITE PARKING STRIPING (TYP)

—12" WIDE WHITE STOP BAR (SOLID)

4" WIDE WHITE STRIPE (SOLID) / 596 LF



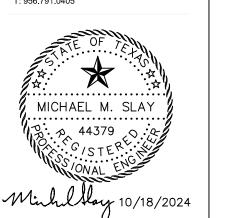






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LAREDO
9901 McPherson Avenue, #1



STRUCTION DOCUMENTS

SADEMY TRACK PAVEMENT

C11.2

Drainage Comments - 2/24/25

Date:08/30/2024

8" CRUSHED LIMESTONE GRANULAR BASE MATERIAL IN 2-4" LIFTS.-SEE TERRACON GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR DETAIL. PROJECT NUMBER: 90235085

PRIME COAT @ 0.20
GAL./SY., MAX.

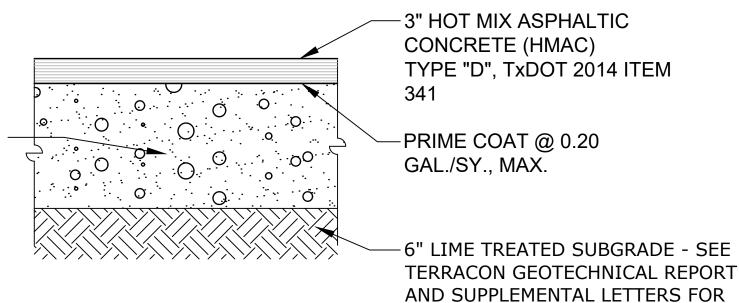
6" LIME TREATED SUBGRADE - SEE TERRACON GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR DETAIL. PROJECT NUMBER: 90235085



PARKING AREA ASPHALT PAVEMENT

NOT TO SCALE

12" CRUSHED LIMESTONE
GRANULAR BASE MATERIAL
IN 3- 4" LIFTS. - SEE TERRACON
GEOTECHNICAL REPORT AND
SUPPLEMENTAL LETTERS FOR
DETAIL. PROJECT NUMBER: 90235085



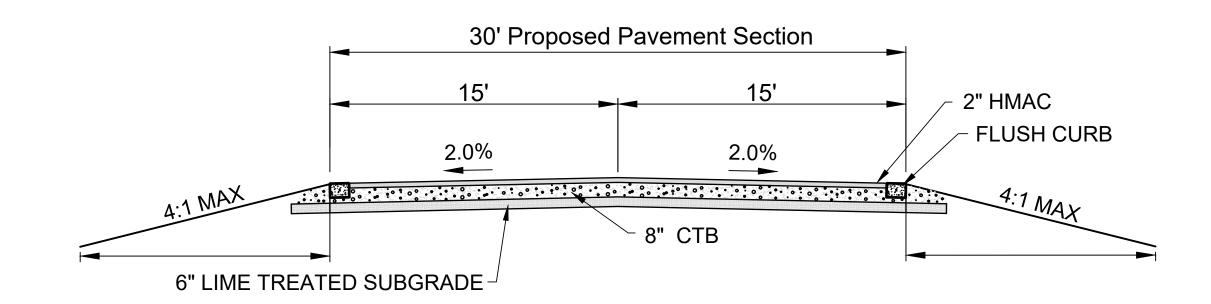
AND SUPPLEMENTAL LETTERS FOR DETAIL. PROJECT NUMBER: 90235085

JLL DEPTH RECONSTRUCTION

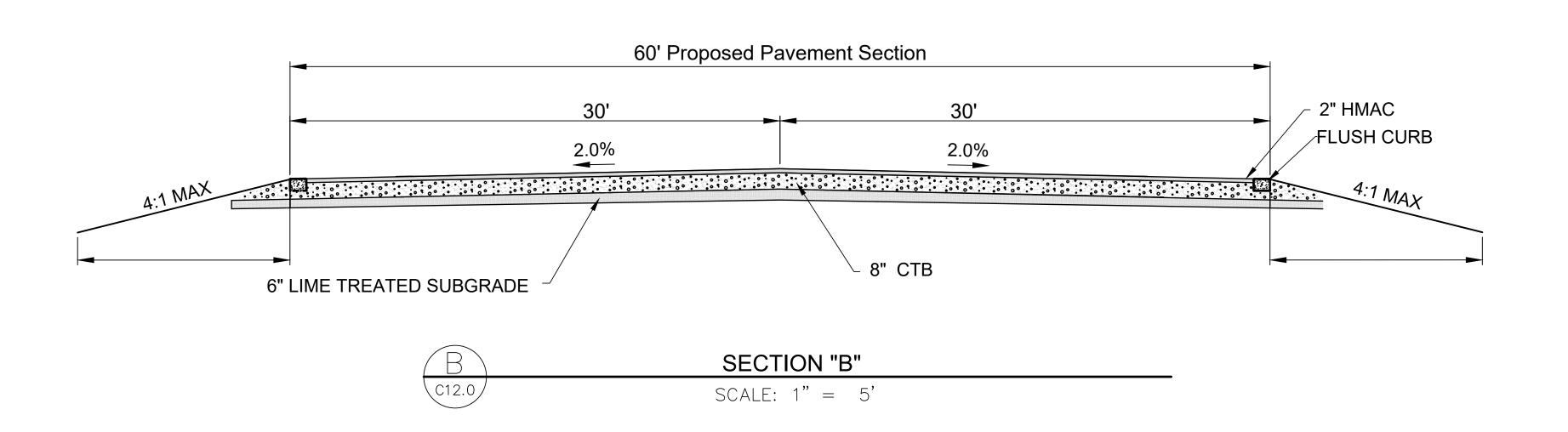
<u>4</u> C12.0

NEW TRACK/ANTILLON LOOP ASPHALT PAVEMENT FULL DEPTH RECONSTRUCTION

NOT TO SCALE







Laredo, Texas 78045 T: 956.791.0405

C12.0

CROSS SECTIONS

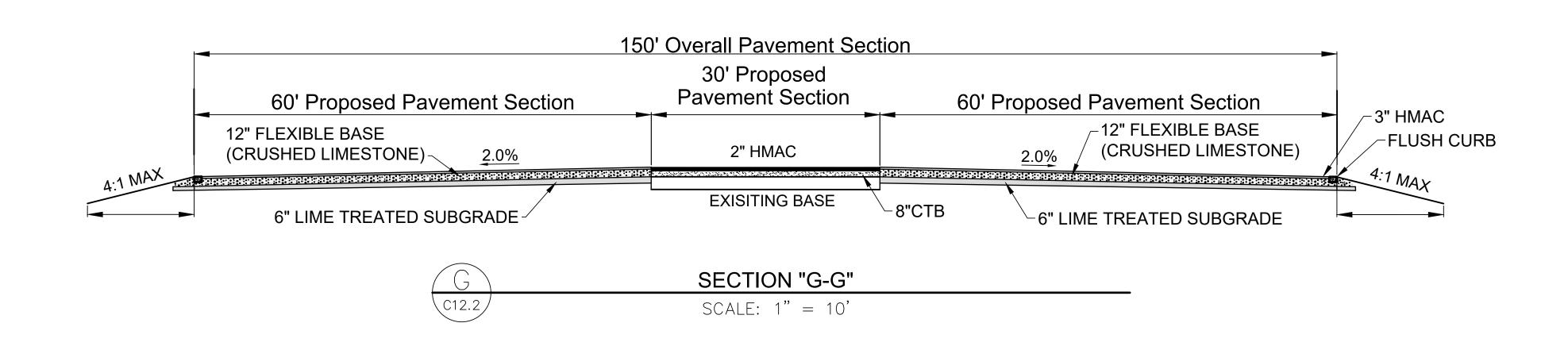
Revisions: Stockpile Location - 12/3/24

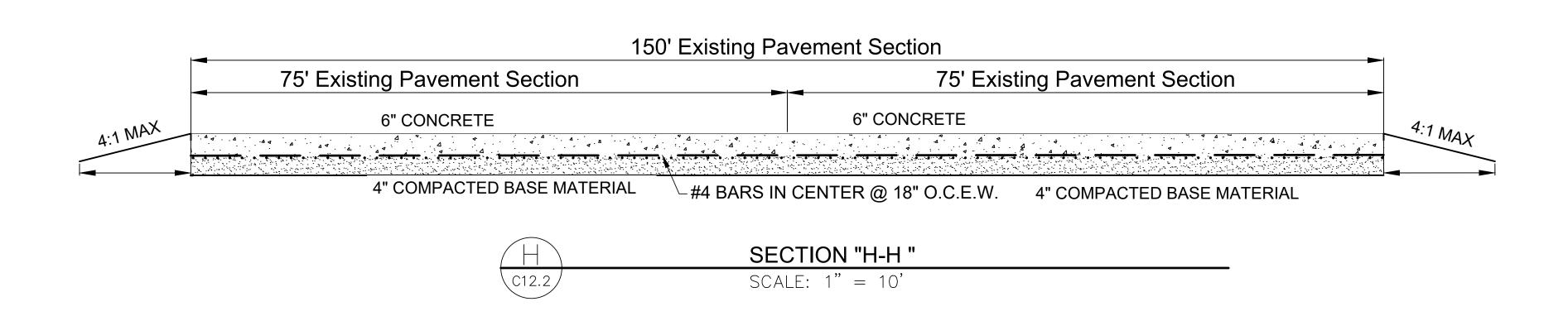
Drainage Comments - 2/24/25

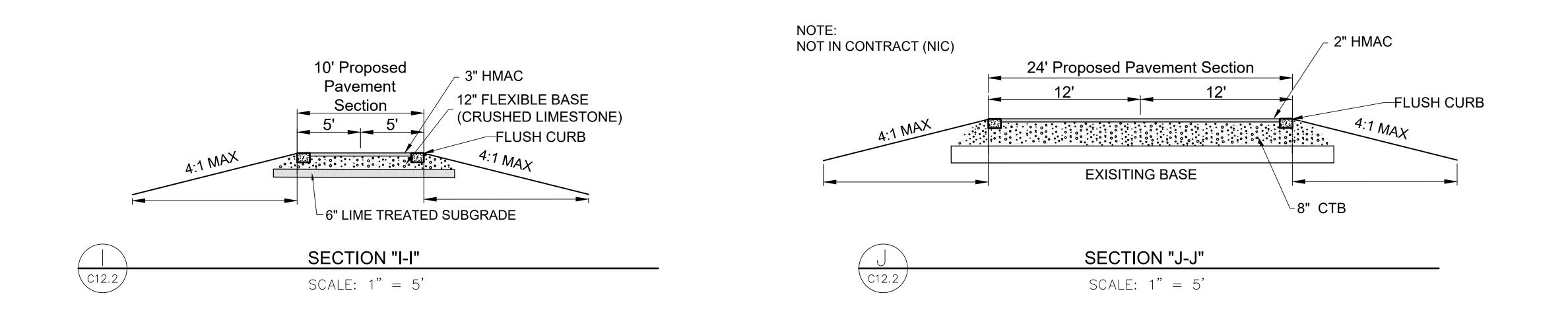
Project NO.: 22028 Date: 08/30/2024

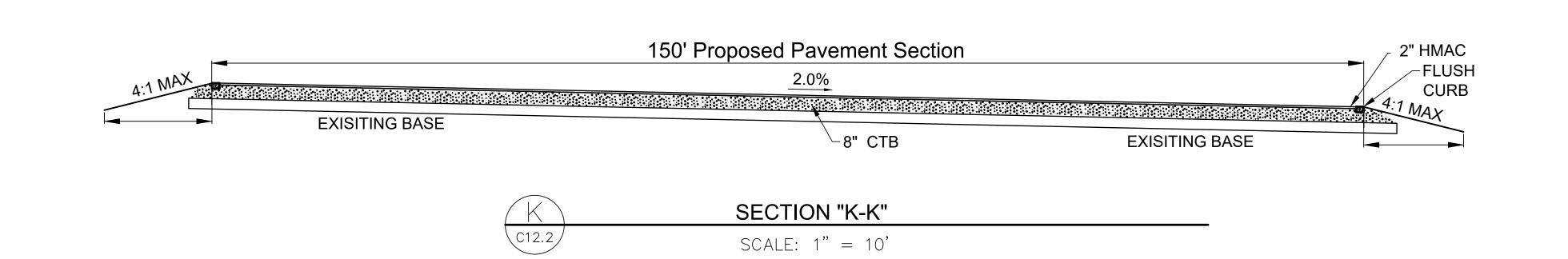
Project NO.: 22028
Date: 08/30/2024
Revisions: Stockpile Location - 12/3/24
Drainage Comments - 2/24/25

C12.1











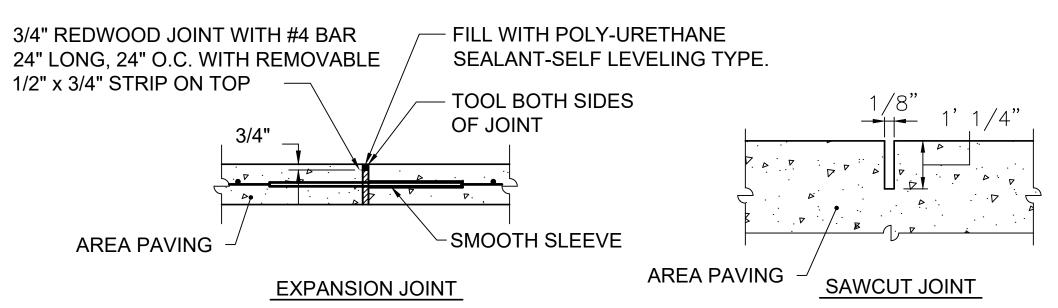
DOCUMENTS CONSTRUCTION 100%

Revisions: Stockpile Location - 12/3/24 Drainage Comments - 2/24/25

Project NO.: 22028

Date:08/30/2024

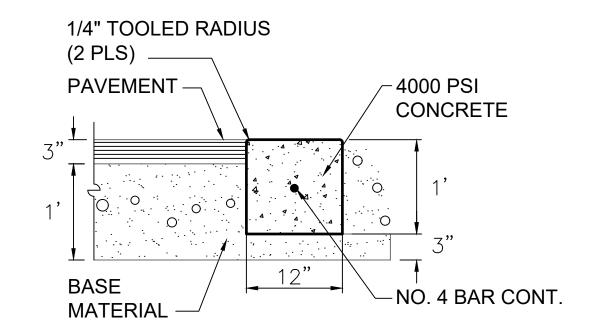
CROSS SECTIONS



GENERAL NOTES:

SAWCUT JOINTS BETWEEN 18 AND 24 HOURS AFTER CONCRETE POUR.

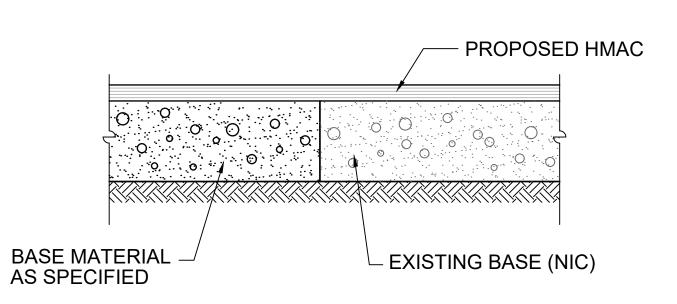
CONTROL JOINTS C12.3/ NOT TO SCALE



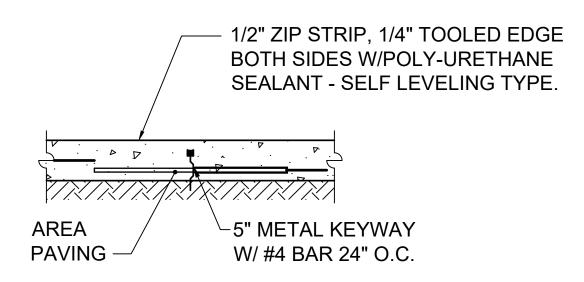
GENERAL NOTES:

SAW JOINTS 10' ON CENTER AND EXPANSION JOINTS AT 40' ON CENTER. WHERE CURB ABUTS SIDEWALKS AND OR CONCRETE PAVEMENT, JOINTS SHALL MATCH UNLESS OTHERWISE SHOWN ON PLANS.





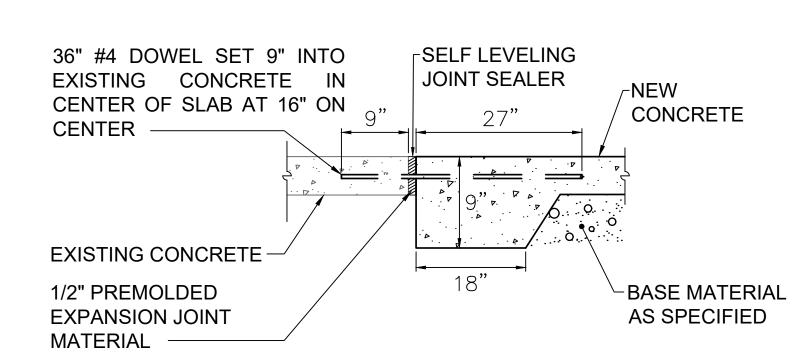




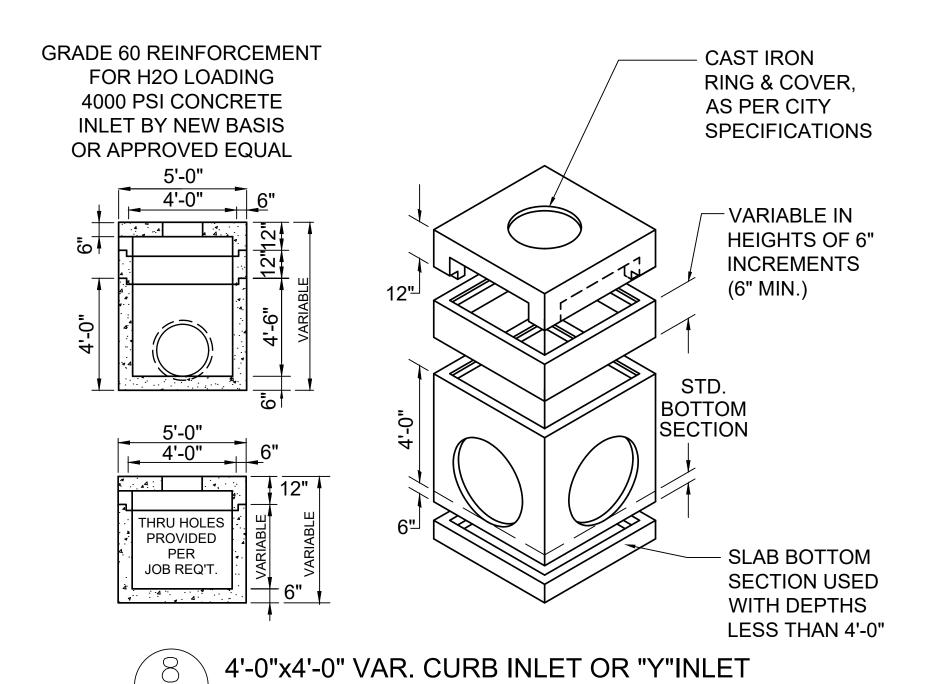
GENERAL NOTES:

CONSTRUCTION JOINTS TO BE USED ON PIPE

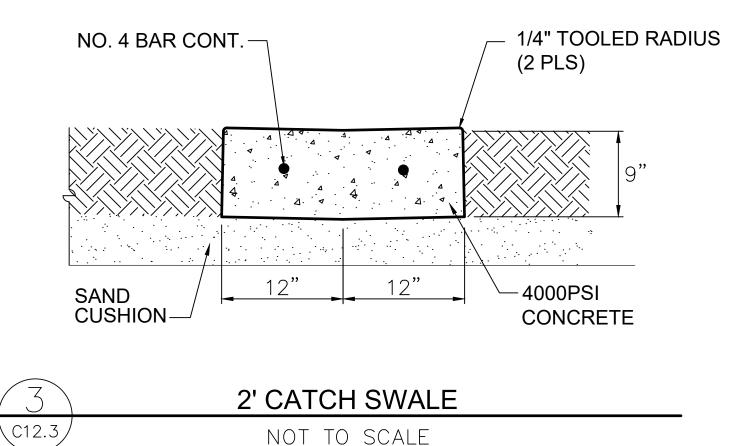
CHASES AND BETWEEN CONCRETE POURS ONLY. **CONSTRUCTION JOINT** $\backslash C12.3$ NOT TO SCALE

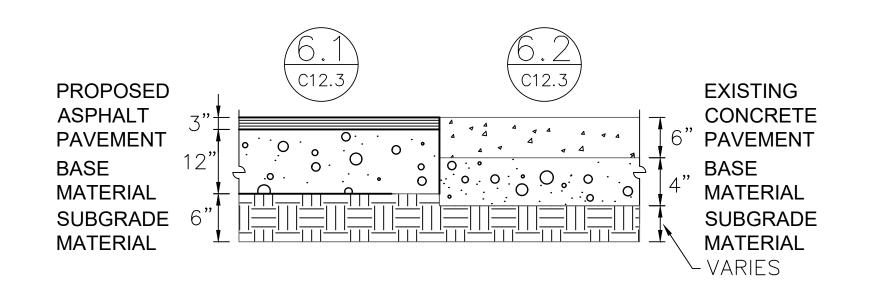


NEW CONCRETE TO EXISTING CONCRETE NOT TO SCALE



NOT TO SCALE





NOT TO SCALE

< 6 [°] CONCRETE TO ASPHALT PAVEMENT C12.3 NOT TO SCALE

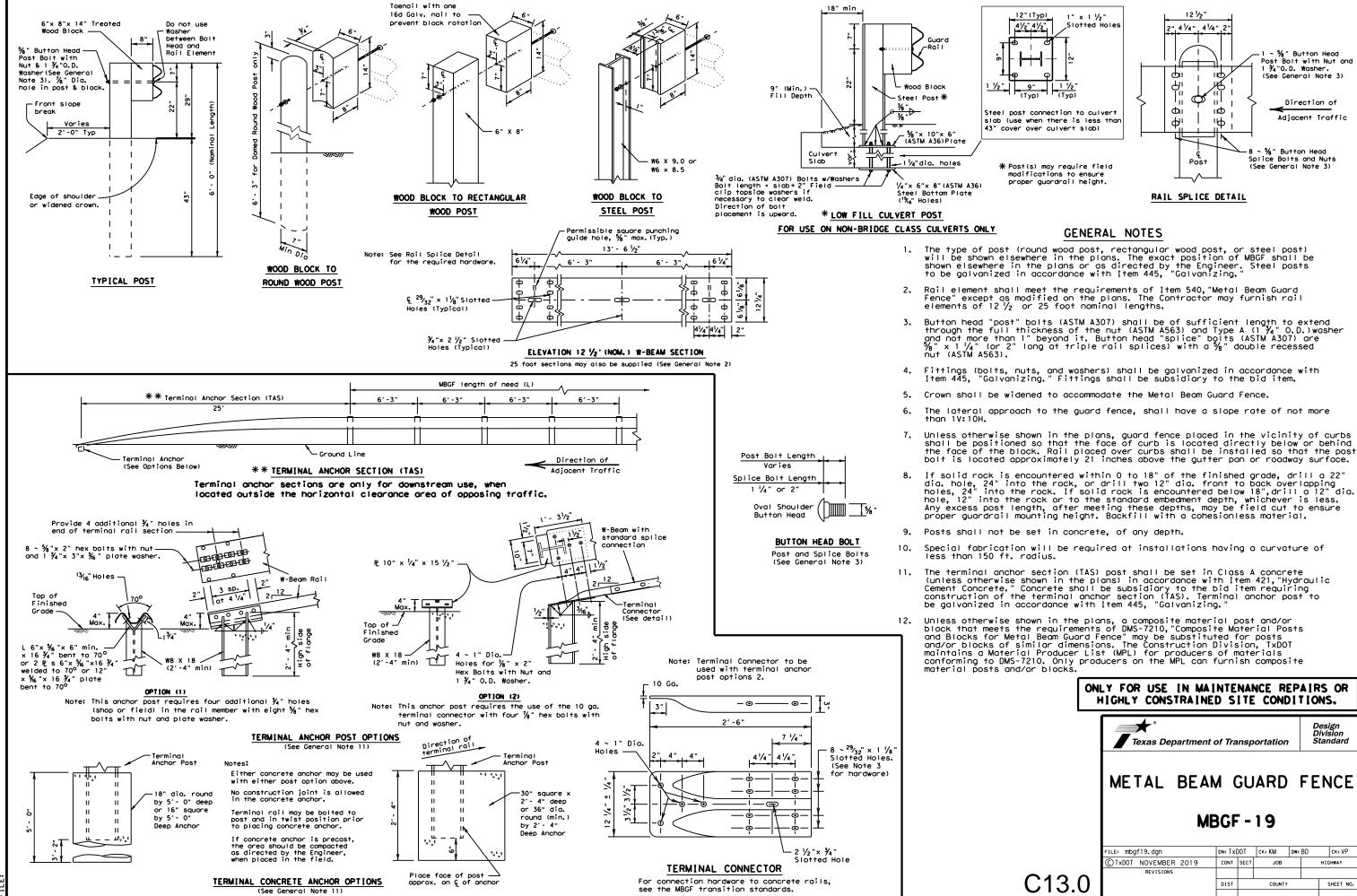


PAVEMENT DETAILS

123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

9901 McPherson Avenue, #104 Laredo, Texas 78045 T: 956.791.0405

MICHAEL M. SLAY



1 \sim $\frac{5}{8}$ " Button Head Post Bolt with Nut and 1 $\frac{3}{4}$ "O.D. Washer.

Direction of

Adjacent Traffic

ck: VP

SHEET NO.

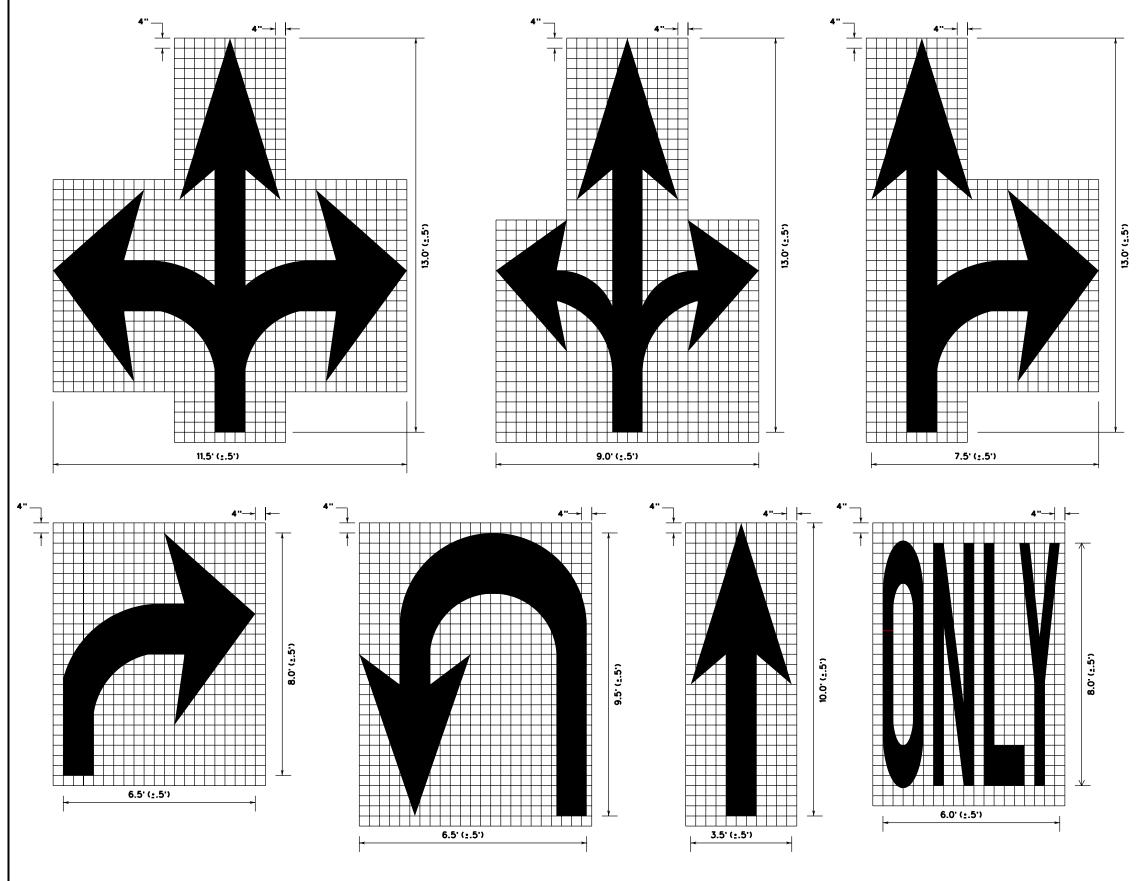
HIGHWAY

JOB

·8 ~ %" Button Head Splice Bolts and Nuts

(See General Note 3)

(See General Note 3)



NOTES:

- 1. MINIMUM 8 FOOT WHITE MARKINGS SHALL BE USED, UNLESS OTHERWISE NOTED. IF MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE PLACED WITH FIRST WORD NEAREST THE DRIVER.
- 2. THESE DETAILS ARE STANDARD SIZE FOR NORMAL INSTALLATION; SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD DEPENDING ON CONDITIONS.
- 3. THE LONGITUDINAL SPACE BETWEEN MARKINGS SHOULD BE 30 FEET.
- 4. MARKINGS CONSIDERED APPROPRIATE FOR USE WHEN WARRANTED INCLUDE THE FOLLOWING:

A. REGULATORY

STOP
RIGHT (LEFT) TURN ONLY
25 MPH
SYMBOL ARROWS
B. WARNING
STOP AHEAD
SIGNAL AHEAD
SCHOOL
SCHOOL X-ING
PED X-ING
R X R (SEE RCPM DETAIL)
OTHER WORDS OR SYMBOLS MAY BE NECESSARY UNDER
CERTAIN CONDITIONS

- 5. UNCONTROLLED USE OF PAVEMENT MARKINGS CAN RESULT IN DRIVER CONFUSION. WORD AND SYMBOL MARKINGS SHOULD BE NO MORE THAN THREE LINES.
- 6. 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.
- 7. PAVEMENT MARKINGS SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH, WITH SCHOOL MESSAGES 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".
- 8. SPACING BETWEEN LETTERS SHOULD BE APPROXIMATELY
 4 INCHES. THE WIDTH OF LETTERS MAY VARY DEPENDING ON
 THE WIDTH OF THE TRAVEL LANES.
- 9. LANE-USE ARROW MARKINGS MAY BE USED TO CONVEY
 EITHER GUIDANCE OR MANDATORY MESSAGES. ARROWS USED
 TO CONVEY A MANDATORY MOVEMENT MUST BE ACCOMPANIED BY
 STANDARD SIGNS AND THE PAVEMENT MARKING WORD "ONLY".
- 10.PAVEMENT MARKINGS ARE TO BE LOCATED AS SPECIFIED ELSEWHERE IN THE PLANS.

SEPTEMBER 2009

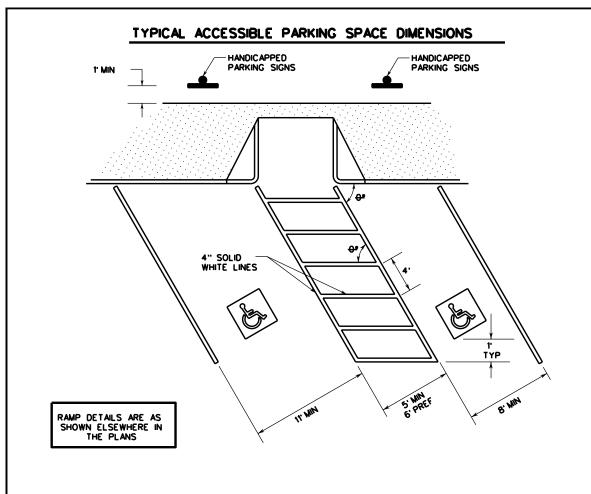
CITY OF SAN ANTONIO

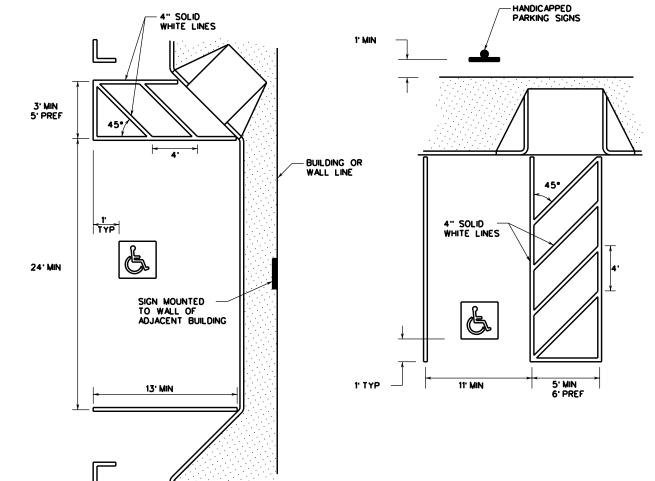
DEPARTMENT OF PUBLIC WORKS

STANDARD PAVEMENT MARKINGS

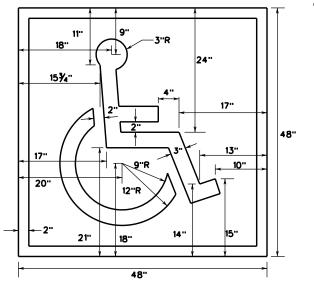
(ARROWS)



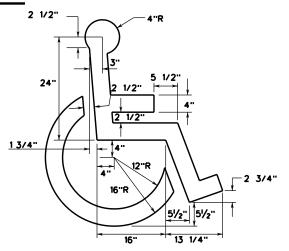




PAVEMENT MARKINGS







SYMBOL ONLY SYMBOL: BLUE OR WHITE

- 1. ALL PARKING SPACE LIMIT LINES SHALL BE 4" SOLID WHITE LINES.
- 2. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
- 3. DIMENSIONS OF LIMIT LINES, AISLE MARKINGS, AND SYMBOL (WITH OR WITHOUT BACKGROUND) MAY VARY 10%.
- 4. PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
- A) ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS,
 B) SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES
 SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE,
 C) MAY BE PAINTED OR PREFABRICATED MATERIAL, AND
 D) SHALL BE 30"x30" MINIMUM.
- 5. WITH APPROVAL OF THE CITY TRAFFIC ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30"x30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL AND BORDER.
- 6. ALL SLOPE IN AND AROUND EXPECTED WHEEL CHAIR PATH SHALL NOT EXCEED 2% X-SLOPES.

SEPTEMBER 2009

CITY OF SAN ANTONIO DEPARTMENT OF PUBLIC WORKS

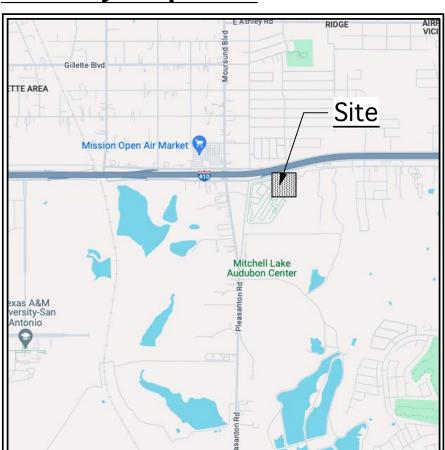
TRAFFIC ENGINEERING STANDARDS ACCESSIBLE PARKING

PAVEMENT MARKINGS FOR SHEET 6 OF 16

C13.3

Landscape Requirements & Tabulations

Vicinity Map



Prior to commencement of any construction activities, Contractor shal notify local utility location service to identify any underground utilities Contractor shall immediately notify the Landscape Architect of any potential discrepancies, or obstacles. CALL 1-800-DIG-TESS for underground utility location at least two (2) days prior to excavation.

the accuracy of that information and is using the information provided to prepare this Landscape Plan.

Plant List

<u>Key</u>	<u>Qty.</u>	<u>Common Name</u>	<u>Botanical Name</u>	<u>Size</u>	<u>Height</u>	<u>Spread</u>	Remarks
MES	2	Mexican Sycamore	Platanus mexicana	2" Cal.	8-10' Ht.	4-5' width	Full, Symmetrical, Uniform Height and S 4' Maximum Clear Trunks; Staked
Hvdroi	mulch	'Blackiack' Bermuda					. Maximum etca. Harris, started

Elective Requirements (25 points required: Off Street Parking NOT in Street Yard)					
Α.	Tree Preservation	Points Credit	0 pts.		
В.	Street Tree Planting	Points Credit	0 pts.		
C.	Surface Of Parking Screening	Points Credit	0 pts.		
D.	Parking Lot Shading (35%)	Points Credit	25 pts.		

Shading Calculations

• Trees Are To Be Planted Within 12'-0" of Edge Of Pavement

Parking Lot Area 35% Shading Minimum	7,500 sf 2,625 sf
Number of Existing Trees @ 1200sf - 0	0 sf
Number of Trees @ 1200sf (Islands-75%) - 0 Number of Trees @ 1200sf (Curbs-50%) - 5	0 sf 3,000 sf
Number of Existing Trees @ 875sf - 0	0 sf
Number of Trees @ 875sf (Islands-75%) - 0	0 sf
Number of Trees @ 875sf (Curbs-50%) - 0	0 sf
Number of Existing Trees @ 275sf - 0	0 sf
Number of Trees @ 275sf (Islands-75%) - 0	0 sf
Number of Trees @ 275sf (Curbs-50%) - 0	0 sf
Square Footage of Trees Provided	3,000 sf

General Notes

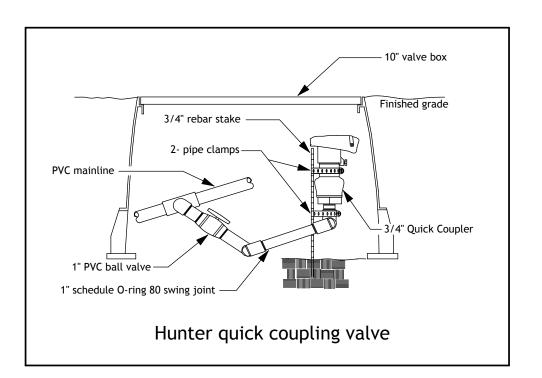
- All quantities shown on plans to be verified by Landscape Contractor. Landscape Contractor shall be responsible for installing all labeled plant material.
- Landscape Contractor shall familiarize himself with the Landscape Plan and Specifications and shall
- be responsible for the requirements dictated therein. Landscape Contractor shall familiarize himself with the location of all underground utilities and
- 4. All plants must comply with the American Standards for Nursery Stock, by the American Association

easements prior to the installation of any plant material.

- All final shaping and raking of the topsoil shall be approved by the Landscape Architect prior to application of Hydromulch or sod, shaping planting beds, installing trees and installing irrigation. Excessive slopes on berms which may cause maintenance problems shall be reviewed by the
- Landscape Architect. Berms shall be installed in 12" layers and compacted to 90% proctor. All topsoil shall be fine sandy loam, raked smooth to grade 2" below curbs, sidewalks, or edging.
- All beds to be mulched to a depth of 4" with BLACK dyed mulch from New Earth (210.661.5180). (7800 IH-10 East, 78219). Submit mulch sample to Landscape Architect prior to delivery and installation.
- All backfill to be sandy loam material and shall be the responsibility of the General Contractor. General Contractor shall allow for the installation of 2" of topsoil at hydroseed areas, 6" of topsoil at lawn areas, and 8" of specified backfill (New Earth 4-way Mix) in shrub areas to be supplied by the Landscape Contractor. Any backfill material shall be compacted sufficiently to prevent excessive settling of topsoil that may effect the finished grade or drainage.
- Landscape Contractor shall notify the Landscape Architect of any questions regarding application of proposed plant material prior to installation-especially questions that may effect or alter the warranty of
- 10. Landscape Contractor shall maintain all trees, shrubs, groundcover and turf areas in a healthy state under the contract until acceptance by the owner. A 90 day maintenance period, after acceptance,
- 11. Trees shall be warrantied 1 year from acceptance of owner. Shrubs and groundcovers shall be warrantied 6 months in the same period.
- 12. All container grown shrubs and groundcovers shall be healthy, vigorous, well-rooted and established in the container in which they are growing.
- 13. Landscape Irrigation to be provided throughout project and shall provide 100%coverage at all landscape areas.

Hydroseed Notes

- a. Seed which has become wet, moldy and otherwise damaged in transit, or in storage will not be
- b. All grass seed shall be fresh, re-cleaned grass seed of the latest crop, mixed in the following proportions by weight and meeting the accepted standards of pure live seed content, purity and germination.
- c. Grass seed shall have the following minimum ration:
- Cynodon Dactylon (Hulled Common Bermuda Grass) 85%pure live seed @ 75lbs Pure Live Seed (PLS) per acre.
- Cynodon Dactylon (Unhulled Common Bermuda Grass) 85%pure live seed @ 75lbs Pure Live Seed (PLS) per acre. Annual Rye Grass, or equal, 85% pure live seed @ 175lbs Pure Live
- Surry Mix Component per acre shall be wood cellulose fiber mulch=2,000 pounds + Grass Seed as specified + fertilizer (13-13-13) 800 pounds.
- Hydroseed on prepared finished grades:
 - a. Install and spread out a minimum of two inch layer of topsoil over all areas to be hydroseeded. b. Bed Prep- Immediately after the finished grade has been approved, begin the hydroseeding operation to reduce excessive weed growth and erosion.
 - c. Apply seed, fertilizer, and mulch by spraying them on the previously prepared seedbeds
 - in the form of an aqueous mixture and by using the methods and equipment described herin. d. Particular care shall be exercised by the contractor to insure that the application is made
 - uniformly and at the prescribed rate and to guard against miss and overlapped areas. e. Where slope of areas to be grassed exceed a 3:1 H:V; an erosion control fabric shall be installed prior to the hydroseeding process.
- - a. Maintenance shall consist of weeding, fertilizing, insect control, watering, replanting, mowing, maintaining of existing grades and repair of any erosion damages.
 - b. Guarantee growth and coverage of hydroseed planting shall be a minimum on ninety five percent (95%) of the area planted will be covered with specified planting after sixty (60) days
- with no bare spots visible. c. Watering-Coordinate with the Owner to properly operate irrigation system to assure a regular
- deep watering program. Inspection and Final Acceptance:
- a. Final acceptance of the lawn establishment shall mean that hydroseed areas are ninety five (95%) uniform coverage of grass in excess of one inch height. No bare spots shall be acceptable.





317 lexington suite 1

210.269.5454 tel

san antonio, texas 78215

www.c2landgroup.com



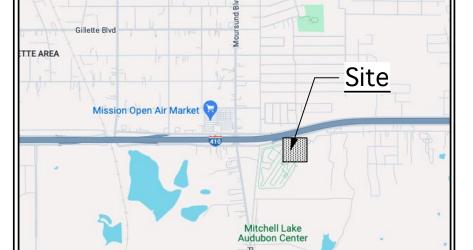
123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

9901 McPherson Road, #104

Project NO.:22028 Date:04/15/2025

00

LANDSCAPE PLAN



The Site Information shown on this plan has been provided by the Owner Architect, or Civil Engineer. C2 Landgroup, Inc. is not responsible for

The Landscape Contractor shall verify all scales of the plans and quantites shown on the plan and is responsible for including in the bid the planting, or installation of all items shown. Any errors on the plan, or quantities should be brought to the attention of the Landscape Architect by the Contractor prior to submittal of any bid.

Keep Mulch Away From Trunk Collar (None @ Collar) Agriform Tablets Subgrade (3 per tree)

Tree Planting Detail

Tree Establishment Water Schedule

c. The root ball is planted at grade.

planting site.

Note: refer to http://hort.ufl.edu/woody/ The following schedule applies when rainfall is absent. If normal rainfall occurs, you may reduce or eliminate watering during that portion of the Establishment or Maintenance Phase. a. Frequency

1st Month – water three (3) times a week over root ball only 2nd Month - water two (2) times a week over root ball only 3rd Month – water once (1) a week Next three months - water twice a month

b. Water Amount (per event) < 2 inch trunk - one (1) gallon per trunk inch 2 - 4 inches - two (2) gallons per trunk inch

Maintenance Schedule

similar water needs require little or no supplemental irrigation. f. If required, supplemental irrigation is recommended at the beginning and towards the end of a target plant

species' growing season (growing season = March to August). 30 day events preferred. g. When irrigation is necessary, water deeply until at least the first 4 inches of soil are saturated. Cycle and and soak may be necessary to achieve this. However, the preferred methods of woody plant irrigation are

h. Annual applications of 1 inch of compost and 2 inches of mulch to the greatest extent possible over the root zone. Less turf and more mulch are always preferred whenever and wherever possible.

Parking Lot (Mandatory Requirement)

Landscape Tabulations

Total Points 25 pts.

Site Tree Canopy **Shading Calculations**

8,525 sf 25% Shading Minimum 2,131 sf Number of Existing Trees @ 1200sf - 0 Number of Trees @ 1200sf @ 90% - 2 2,160 sf Number of Trees @ 1200sf @ 90% (x1.5) - 0 0 sf Number of Existing Trees @ 875sf - 0 0 sf Number of Trees @ 875sf @ 90% - 0 0 sf Number of Trees @ 875sf @ 90% (x1.5) - 0 0 sf 0 sf Number of Existing Trees @ 550sf - 0 0 sf Number of Trees @ 550sf @ 90% - 0 Number of Trees @ 550sf @ 90% (x1.5) - 0 0 sf

Number of Existing Trees @ 275sf - 0 Number of Trees @ 275sf @ 90% - 0 Number of Trees @ 275sf @ 90% (x1.5) - 0

Square Footage of Trees Provided

Number 11 Gauge Twisted Wire With Gromet Nylon Straps Drive T-Post 12" Into Subgrade; Minimum 20gal. Treegator Irrigation Bag (Treegator.com);

Install per Manufacturer's Specifications Fill Water Per Manufacturer's Specifications

- Finish Grade After Settling *Notes:

> "Gatorbags" are available at many local San Antonio wholesale suppliers. <u>Watering Guide:</u> 2 gallons of water per foot of tree height weekly. Tree may need more, or less, depending on time of year, weather conditions, or soil conditions.

This roughly equates to: <u>Single bag:</u> 15 gallons per week for trees 1-2" cal.; 14.5 gallons twice a week for tree 2-3" cal.; Double bag:

23.5 gallons once a week for trees 4-5" cal.; 22.5 gallons twice a week for trees 5-8" cal.

a. One (1) inch of compost should be incorporated into the soil. b. Planting holes are a minimum of twice the width of the root ball and have sloping sides

d. Water the entire planting site until soil is saturated e. Two (2) inches of hardwood chip or pine bark or similar substance has been place evenly over the entire Establishment Water Schedule

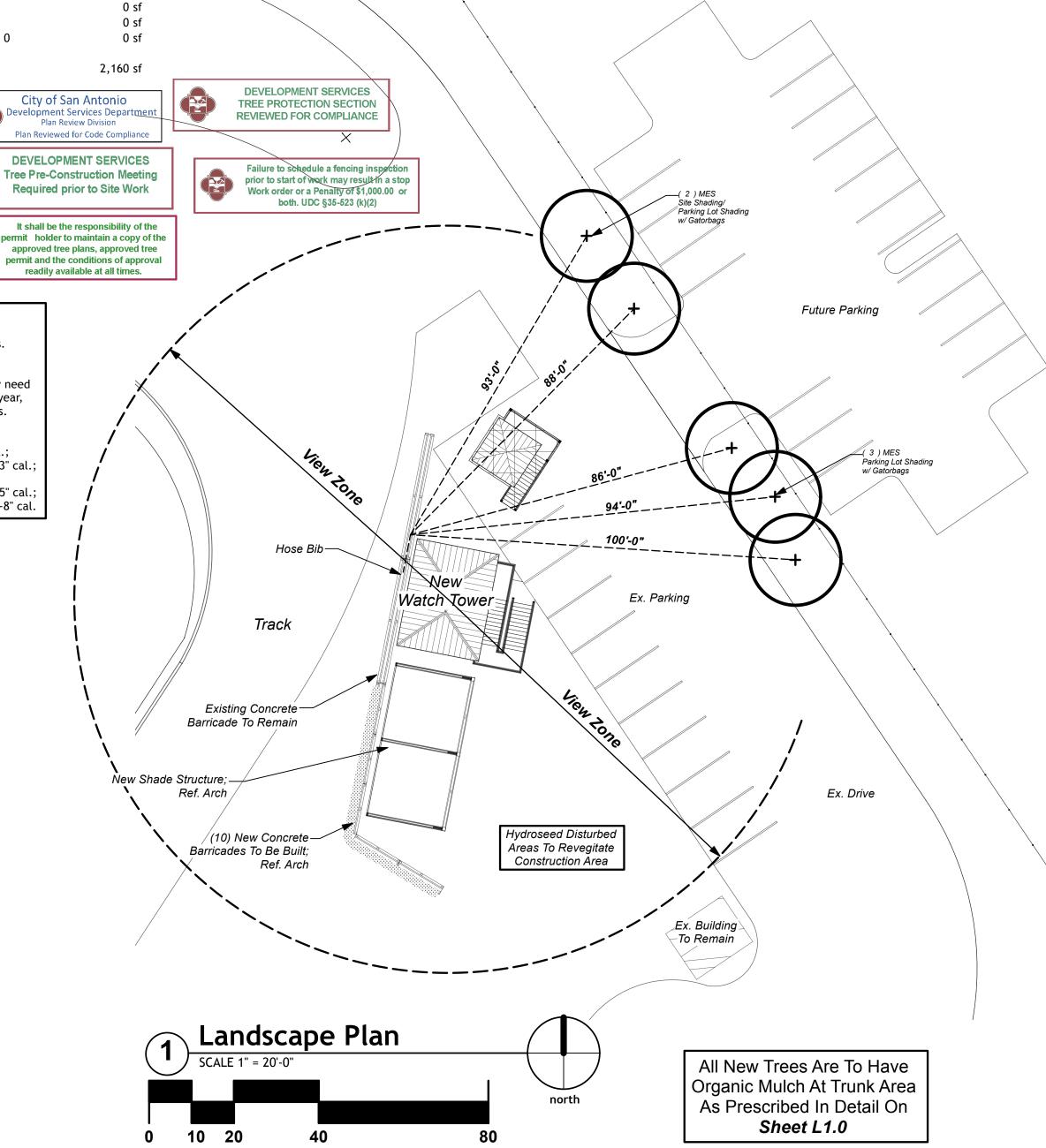
Next summer - water once April, May, June, July, August

> 4 inches – three (3) gallons per trunk inch

Use of TreeGator Bags - eliminate 1st Month Schedule. Example: 2 times a week for 1 month, followed by 1

(See the Woody Plant BMP for the Complete List of Practices)

e. Native and adapted non-native plants that have been properly planted and established and grouped with



Landscape Requirements & Tabulations

Tree Preservation Notes

- 1. All existing trees denoted on plan to be preserved as shown. Those trees requested for credit have been delineated to be protected at the root zone. The root zone shall be determined by the crown of the tree. Preservation notes apply only for those trees that are designated to be preserved
- A protective barrier to protect the root protection zone shall be erected and maintained until construction is completed. The barrier shall be fenced or cabled with a semi-permanent barrier that will visually denote those areas being protected.
- 3. Protected areas shall be sustained in a natural state until landscape installation begins.
- 4. Protected areas shall be free from vehicular or mechanical traffic during construction.
- During construction, no excess soil, additional fill, equipment, liquids, or construction debris shall be placed inside the protective barrier nor shall any soil be removed from within the barrier.
- 6. The proposed finished grade and elevation of land within the root protection zone of any tree to be preserved shall not be raised or lowered more than three inches. Welling and retaining methods are allowed outside the root protection zone.
- 7. The root protection zone for each designated protected tree must remain unpaved.
- 8. All designated / protected trees shall have ground cover or turf at the base of the tree. See plan for
- 9. All trenches and digging within the Root Protection Zone shall be hand digging only. No automatic trenchers allowed.

Tree Inventory Summary

Understory Trees	
Total Diameter Inches	0"
Total Diameter Inches Removed	0"
Total Diameter Inches Preserved	0"

% Diameter Inches Preserved 100	0.00 %
Number of Inches over/under 40% 0"	
To be used against mitigation of large heritage tree	<u>,</u>
Number of Inches Mitigated with Excess Existing Trees	0"
Number of Inches Mitigated with Excess New Trees	0"
Total Mitigation	0"
Amount To Pay Into Tree Preservation Fund	\$0

Significant Trees	
Total Diameter Inches	10'
Total Diameter Inches Removed	0'

Total Diameter Inches Preserved

% Diameter Inches Preserved	100.00	9
Number of Inches over/under 40%	6"	
Number To Be Used Towards Mitigation of Heritage	Trees	(
Number of Inches Mitigated with Excess New Trees		(
Total Mitigation		(
Amount To Pay Into Tree Preservation Fund	\$0	

(Number of remaining inches (90-14.5=75.5) at \$200/inch)

Heritage Trees	
Total Diameter Inches	30
Total Diameter Inches Removed	C
Total Diameter Inches Preserved	30

% Diameter Inches Preserved	100.00) %
Number of Inches To Mitigate (3:1)	0"	
Number of Inches Mitigated with Excess Existing Tro	ees	0'
Number of Inches Mitigated with Excess New Trees		0'
Total Mitigation		0'
Amount To Pay Into Tree Preservation Fund	\$0)

Areas Within The Fence Line

(Number of remaining inches (0-0=0) at \$200/inch)

Total # Trees 24" cal. & above

Tree Inventory

102 10" Oak Remain 101 30" Hackberry Remain

<u>PLAN VIEW</u>

20" DIAMETER TREE

Place 6" Mulch In Root Protection Zone

Highlighted Trees are "Heritage Trees" (+24") Remain = Tree is counted and will remain.

Remain; N.C. = Tree is not counted because it is not a protected size, yet will remain. Remain; Esmt = Tree is not counted because it is in an easment, yet will remain.

Remain; OPL = Tree is not counted because it is outside the property line, yet will remain.

Remove = Tree is counted and will be removed. Remove; N.C. = Tree is not counted because it is not a protected size, or species, and will be removed. Remove; Esmt = Tree is not counted because it is in an

easment, and will be removed. Remove*** = Tree is not counted because it is in an in ROW, yet will be removed and mitigated @ 1:1. Remove; DDD = Tree is not counted because it is Dead, Dying, or in Decline, and be removed.

Live Branch Branch Bark Ridge **Proper Pruning For** Branches 1 1#2" Or

Greater Diameter. Note: Do Not Cut From D To E.

- A. First Cut To Prevent The Bark From Being Peeled When The Branch Falls. B. Second Cut - To Reduce The Weight Of Branch.
- C. Final Cut Allow For Healing Collar But No D. Branch Ridges - Indent Properly Branch Ridges Which Are Site For Decay.

For Oaks Only: Paint All Wounds Or Cuts With Pruning Paint Within 20 Min To Prevent The Spread Of Oak Wilt.

100 200



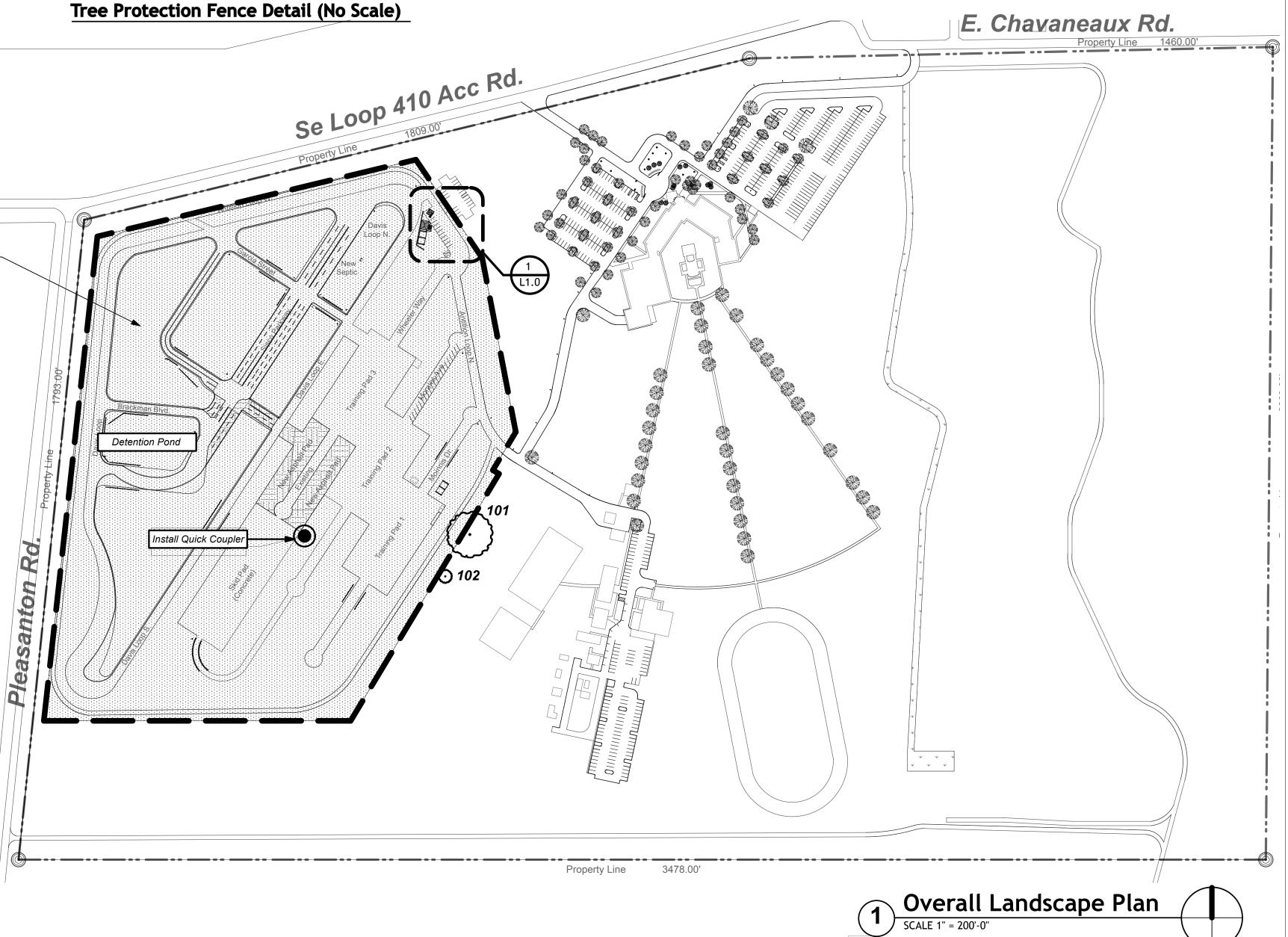
master planning / creative spaces 317 lexington suite 1 san antonio, texas 78215

210.269.5454 tel

SAN ANTONIO 123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

www.c2landgroup.com





Project NO.:22028

OVERALL LANDSCAPE PLAN

Landscape Requirements & Tabulations

Tree Preservation Notes

- 1. All existing trees denoted on plan to be preserved as shown. Those trees requested for credit have been delineated to be protected at the root zone. The root zone shall be determined by the crown of the tree. Preservation notes apply only for those trees that are designated to be preserved
- A protective barrier to protect the root protection zone shall be erected and maintained until construction is completed. The barrier shall be fenced or cabled with a semi-permanent barrier that will visually denote those areas being protected.
- 3. Protected areas shall be sustained in a natural state until landscape installation begins.
- 4. Protected areas shall be free from vehicular or mechanical traffic during construction.
- During construction, no excess soil, additional fill, equipment, liquids, or construction debris shall be placed inside the protective barrier nor shall any soil be removed from within the barrier.
- 6. The proposed finished grade and elevation of land within the root protection zone of any tree to be preserved shall not be raised or lowered more than three inches. Welling and retaining methods are allowed outside the root protection zone.
- 7. The root protection zone for each designated protected tree must remain unpaved.
- 8. All designated / protected trees shall have ground cover or turf at the base of the tree. See plan for
- 9. All trenches and digging within the Root Protection Zone shall be hand digging only. No automatic trenchers allowed.

Tree Inventory Summary

Understory Trees	
Total Diameter Inches	0"
Total Diameter Inches Removed	0"
Total Diameter Inches Preserved	0"

% Diameter Inches Preserved 100	0.00 %
Number of Inches over/under 40% 0"	
To be used against mitigation of large heritage tree	<u>,</u>
Number of Inches Mitigated with Excess Existing Trees	0"
Number of Inches Mitigated with Excess New Trees	0"
Total Mitigation	0"
Amount To Pay Into Tree Preservation Fund	\$0

Significant Trees	
Total Diameter Inches	10'
Total Diameter Inches Removed	0'

Total Diameter Inches Preserved

% Diameter Inches Preserved	100.00	9
Number of Inches over/under 40%	6"	
Number To Be Used Towards Mitigation of Heritage	Trees	(
Number of Inches Mitigated with Excess New Trees		(
Total Mitigation		(
Amount To Pay Into Tree Preservation Fund	\$0	

(Number of remaining inches (90-14.5=75.5) at \$200/inch)

Heritage Trees	
Total Diameter Inches	30
Total Diameter Inches Removed	C
Total Diameter Inches Preserved	30

% Diameter Inches Preserved	100.00) %
Number of Inches To Mitigate (3:1)	0"	
Number of Inches Mitigated with Excess Existing Tro	ees	0'
Number of Inches Mitigated with Excess New Trees		0'
Total Mitigation		0'
Amount To Pay Into Tree Preservation Fund	\$0)

Areas Within The Fence Line

(Number of remaining inches (0-0=0) at \$200/inch)

Total # Trees 24" cal. & above

Tree Inventory

102 10" Oak Remain 101 30" Hackberry Remain

<u>PLAN VIEW</u>

20" DIAMETER TREE

Place 6" Mulch In Root Protection Zone

Highlighted Trees are "Heritage Trees" (+24") Remain = Tree is counted and will remain.

Remain; N.C. = Tree is not counted because it is not a protected size, yet will remain. Remain; Esmt = Tree is not counted because it is in an easment, yet will remain.

Remain; OPL = Tree is not counted because it is outside the property line, yet will remain.

Remove = Tree is counted and will be removed. Remove; N.C. = Tree is not counted because it is not a protected size, or species, and will be removed. Remove; Esmt = Tree is not counted because it is in an

easment, and will be removed. Remove*** = Tree is not counted because it is in an in ROW, yet will be removed and mitigated @ 1:1. Remove; DDD = Tree is not counted because it is Dead, Dying, or in Decline, and be removed.

Live Branch Branch Bark Ridge **Proper Pruning For** Branches 1 1#2" Or

Greater Diameter. Note: Do Not Cut From D To E.

- A. First Cut To Prevent The Bark From Being Peeled When The Branch Falls. B. Second Cut - To Reduce The Weight Of Branch.
- C. Final Cut Allow For Healing Collar But No D. Branch Ridges - Indent Properly Branch Ridges Which Are Site For Decay.

For Oaks Only: Paint All Wounds Or Cuts With Pruning Paint Within 20 Min To Prevent The Spread Of Oak Wilt.

100 200



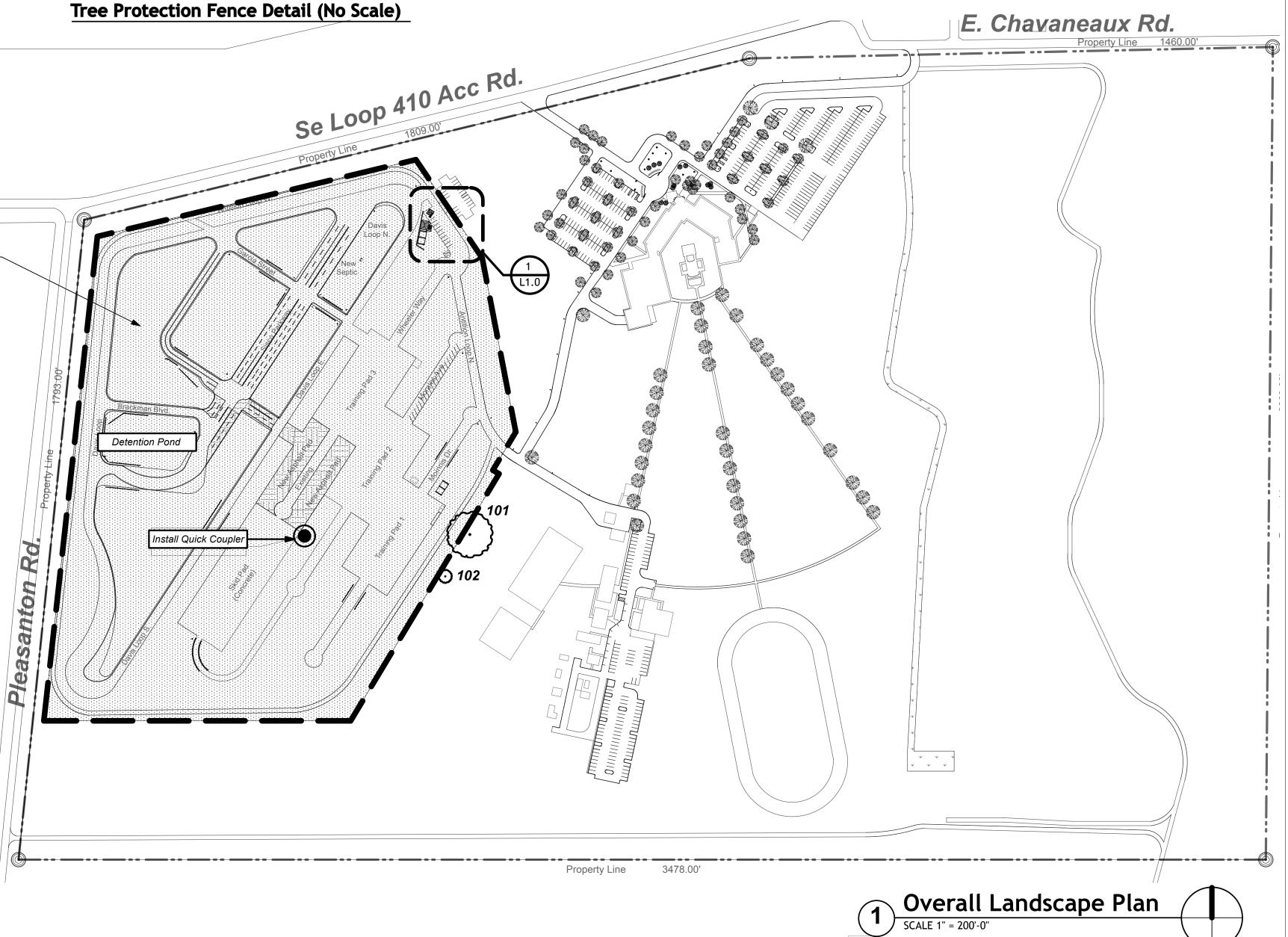
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Project NO.:22028

OVERALL LANDSCAPE PLAN

SECTION

CONCRETE NOTES:

CN-1 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENT, ADMIXTURES, ETC.

NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT FOR TYPE I, II, III, IV, NO FLY ASH FOR TYPE IL, REFER TO SPECIFICATIONS.

<u>CN-2</u> REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A615-GR 60 FOOTING SPIRALS A615-GR 60 BEAM STIRRUPS, COLUMN TIES ASTM A108-60T HEADED CONCRETE ANCHORS

CN-3 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIPPED GALVANIZED AFTER FABRICATION.

<u>CN-4</u> PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. SEE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED 8" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.

<u>CN-5</u> CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER OF RECORD AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLAB, BEAMS AND WALLS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.

CN-6 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF ALL SLAB OPENINGS AND SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY ABOVE.

CN-7 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.

<u>CN-8</u> MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS, AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS.

<u>CN-9</u> "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL.

MECHANICAL TESTING OF HCA IN SHOP

LOADING DEVICE MAY BE NEEDED.

SCALE: 3/4" = 1'-0"

MECHANICAL TESTS SHALL BE MADE BEFORE INITIATION OF PRODUCTION WELDING AFTER ANY EQUIPMENT MAINTENANCE TO ENSURE THAT THE WELDING SCHEDULE IS SATISFACTORY. THEY MAY ALSO BE MADE DURING THE PRODUCTION RUN OR AT THE BEGINNING OF A SHIFT TO ENSURE THAT WELDING CONDITIONS HAVE NOT CHANGED. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE, THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. BENDING SHOULD BE DETERMINED WHEN THE WELDING PROCEDURE

SPECIFICATION IS ESTABLISHED OR FROM THE APPLICABLE WELDING CODE. BEND TESTING MAY DAMAGE THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. SPECIAL TOOLING MAY BE REQUIRED TO GRIP THE STUD

PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE

MECHANICAL TESTING OF HCA IN FIELD MECHANICAL TESTS SHALL BE MADE IN THE FIELD BEFORE PLATES ARE INSTALLED IN CONCRETE. THE CONTRACTOR SHALL SUPPLY AT A MINIMUM ONE ADDITIONAL PER 50 PLATES OF EACH TYPE OR ADDITIONAL STUDS SHALL BE PLACED ON SPECIAL CONFIGURATION PLATES AND MEMBERS, THESE STUDS SHALL BE TESTED IN THE FIELD. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. BEND TESTING MAY DAMAGE. THUS THEY MAY NOT BE USED. THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. PROPERLY WITHOUT DAMAGE, AND A SPECIAL

CN-10 REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE. IF PUMP IS USED, TESTING SHALL BE AT THE END OF THE HOSE.

REINFORCING BAR LAP SPLICE TABLE (MASONRY) CONCRETE f'c (PSI) AND LAP CLASS POSITION | 2500 | 3000 40db 40db | #3 thru #6

REINFORCING BAR LAP SPLICE TABLE (BEAMS AND COLUMNS)

72db |

72db

	CONCRETE f'c (PSI) AND LAP CLASS										
POSITION	3000	4000	5000	6000							
	В	В	В	В							
ALL	74db	64db	58db	50db							
ALL	93db	80db	72db	60db							
	ALL	POSITION 3000 B ALL 74db	POSITION 3000 4000 B B ALL 74db 64db	POSITION 3000 4000 5000 B B B ALL 74db 64db 58db	POSITION 3000 4000 5000 6000 B B B B ALL 74db 64db 58db 50db	POSITION 3000 4000 5000 6000 B B B B ALL 74db 64db 58db 50db					

REINFORCING BAR LAP SPLICE TABLE (SLABS AND WALLS)

DAD		COI	NCRETE	f'c (PS	I) AND	LAP C	LASS
BAR SIZE	POSITION	3000	4000	5000			
SIZE		В	В	В			
		-	-				
#3 thru #6	0.75" COVER 2.0" COVER	75db 46db	64db 40db	58db 40db			
#7 thru #11	0.75" COVER 2.0" COVER	138db 74db	120db 65db	106db 56db			

REBAR LAP SPLICE TABLE NOTES:

#7 thru #11

<u>RL-1</u> "db" DENOTES BAR DIAMETER.

RL-2 ALL SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.

<u>RL-3</u> VALUES APPLY TO ALL BARS WITH MINIMUM CONCRETE COVER 1.0db AND MINIMUM CENTER TO CENTER SPACING OF 2.0db.

<u>RL-4</u> FOR LIGHTWEIGHT CONCRETE, MULTIPLY BY 1.3.

RL-5 THE CHART ABOVE IS A SIMPLIFIED AND CONSERVATIVE METHOD FOR MEETING THE REQUIREMENTS OF ACI 12.2.2. THE CONTRACTOR MAY SUBMIT A DETAILED REBAR SPLICING PLAN IN ACCORDANCE WITH ACI 12.2.2 FOR APPROVAL.

UNDERFLOOR FILL NOTES.

UF-1 BEFORE ANY CONSTRUCTION IS BEGUN. PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.

UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.

UF-3 IN THE AREA OCCUPIED BY THE FOUNDATION AND ALL ADJACENT SIDEWALKS, PLUS 3'-0", REMOVE A MINIMUM OF 2'-0" OF TOPSOIL INCLUDING ALL ORGANIC MATERIALS, ROOTS, ETC. FROM THE SITE. DO NOT USE FOR UNDERFLOOR FILL. REMOVE ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE A MINIMUM OF 2'-0" OF SELECT FILL AS PER UF-6.

<u>UF-4</u> THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (15 TONS) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 6 PASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

<u>UF-5</u> THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST. MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL

UF-6 FOR A DISTANCE OF 3'-0" OUTSIDE OF THE BUILDING LINE AND ALL ADJACENT SIDEWALKS, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION OF THE BOTTOM OF THE SLAB WITH SELECT CRUSHED STONE FILL CONFORMING TO TXDOT SPECIFICATIONS, ITEM 247, TYPE "A" GRADE 2. A MINIMUM THICKNESS OF 2'-0" IS REQUIRED. NO DIRT FILL SHALL BE USED UNDER THE BUILDING FOUNDATION. SUBMIT WRITTEN CERTIFICATION OF COMPLIANCE WITH TXDOT, ITEM 247 SPECIFICATIONS BY TEST PERFORMED ON FIELD EXAMPLES.

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS.

UF-8 PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

UF-9 REFERENCE GEOTECHNICAL REPORT BY: TERRACON PROJECT No. 90235085, DATED OCTOBER 5, 2023.







GENERAL NOTES:

TX FIRM REG. #3388

GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).

GN-2 THE DESIGN LOADS ARE:

SUPERIMPOSED DEAD LOADS

MECHANICAL EQUIPMENT AS INDICATED ON PLANS
FLOOR LIVE LOAD .100 PSF CORRIDOR
ASSEMBLY AREAS:

MECHANICAL DUCTS/CONDUITS, CEILING, ETC. 5 PSF

ASSEMBLY AREAS:
FIXED SEATS
LOBBIES
MOVEABLE SEATS
STAGES & PLATFORMS
CATWALKS
ROOF LIVE LOAD

ROOF LIVE LOAD FLAT ROOF PITCHED ROOF														
ROOF SNOW LOAD														

GROUND SNOW Pg
SNOW EXPOSURE FACTOR Ce
SNOW LOAD IMPORTANCE FACTOR Is
THERMAL FACTOR Ct
WIND LOAD
BASIC WIND SPEED (ULTIMATE DESIGN) 103
BUILDING CATEGORY

EARTHQUAKE LOADS
SEISMIC IMPORTANCE FACTOR le 1.00
SPECTRAL RESPONSE ACCELERATION Ss 14%
SPECTRAL RESPONSE ACCELERATION S
SPECTRAL RESPONSE COEF. SDs
SPECTRAL RESPONSE COEF. SD
SEISMIC DESIGN CATEGORY
SEISMIC RESPONSE COEF Cs
RETAINING WALLS

RETAINING WALLS	
GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY	1.5
TYPE	CANTILEVER
EQUIVALENT FLUID PRESSURE	. 50 PCF
BACKFILL	NED/ONSITE
FOOTING BEARING	. 1500 PSF
SURCHARGE	200 PS

FLOOD LOAD

GN-3 ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)

D+(Lr, or S or R) D+0.75L+0.75(Lr, or S or R) D+(0.6W)D+0.75L+0.75(0.6W)+0.75(Lr or S or R)0.6D + 0.6WD+0.7E

STRENGTH DESIGN LOAD COMBINATIONS (FOR CONCRETE DESIGN)

1.2D+1.6L+0.5(Lr, or S or R) 1.2D+1.6(Lr, or S or R)+(L or 0.5W)1.2D+1.0W+L+0.5(Lr, or S or R) 0.9 + 1.0W1.2D+E+L+0.2S

GN-4 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

GN-5 UTILITIES PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO EXPANSIVE UNDERLYING

GN-6 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM. STEEL SUPERSTRUCTURE.

GN-7 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION DRAWINGS. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME AND EXPENSE FOR SUBCONTRACTORS TO PRODUCE THEIR OWN ORIGINAL ERECTION AND PLACEMENT

GN-8 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEED THE DESIGN LOADS WILL REQUIRE REANALYSIS AND PROBABLE REDESIGN.

<u>GN-9</u> PROVIDE 5.0 TONS OF EXTRA REINFORCING STEEL, DETAILING, LABOR FOR PLACING AND FABRICATION AS DIRECTED IN THE FIELD AND SHOP.

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Project NO.: 22028 Date: 05/23/2024 Revisions:

NOTES, SECTIONS AND DETAILS

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CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.



Pursuant to IBC Chapter 17 (1704.2.1) provide the following Special Inspector Qualifications to

1. Testing Laboratory Qualifications meeting ASTM0329 and accreditation by AASHTO

2. Special Inspector's name and proof of meeting the qualification requirements set forth in

IBC 1704.2.1 "written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction.

Experience or training shall be considered relevant where the documented experience or training

is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities." These qualifications are in addition to qualifications

TESTING & INSPECTION REQUIREMENTS

(INCLUDING SPECIAL INSPECTIONS)

AT THE CONTRACTORS EXPENSE, INSTRUMENT

PROOFROLLING SHALL BE MONITORED BY A

GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF

PROOFROLLING EQUIPMENT AND PROCEDURES.

EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST

COMPACTION OF FILL, SPECIAL INSPECTOR SHALL

DETERMINE THE MATERIAL BEING USED AND THE

ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE

PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ.

1. VERIFY THE BEARING STRATUM IS ENCOUNTERED

2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS,

3. VERIFY CONFORMANCE WITH THE FOUNDATION

STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.

2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH

RECOMMENDATIONS PROVIDE IN THE PROJECT

"GEOTECHNICAL ENGINEERING STUDY" AND THE

1. PROVIDE RECORD OF EACH PILE INSTALLED.

MAXIMUM LIFT THICKNESS COMPLY WITH

OFTEN IF MATERIAL APPEARS TO VARY.

OR PERIODIC | FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING

OR PERIODIC | CLAY CAP AND PLACING OF CLAY PLUG SHALL BE

AT THE ANTICIPATED DEPTH.

MONITORED BY GEOTECHNICAL ENGINEER.

SPECIFICATIONS.

E. TRENCH BACKFILLING: | CONTINUOUS | TRENCH BACKFILLING: TRENCH BACKFILLING WITH

CONTINUOUS | VISUAL OBSERVATIONS: DURING PLACEMENT AND

PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ.

FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING

IBC SECTION &

REFERENCE

IBC 1705.6

GEOTECHNICAL

GEOTECHNICAL

PAD GENERAL

GEOTECHNICAL

GEOTECHNICAL

PAD GENERAL

IBC 1705.6

GEOTECHNICAL

PAD GENERAL

GEOTECHNICAL

GEOTECHNICAL

REPORT;

REPORT, BUILDING

REPORT, BUILDING

REPORT, BUILDING ASTM D3740

GEOTECHNICAL *QUALIFICATIONS BASED ON REPORT, BUILDING ASTM D3740

<u>CRITERIA</u>

READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR REPORT, BUILDING ASTM D3740
TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES. PAD GENERAL LICENSED SURVEYOR

QUALITY CONTROLLED TESTING AND EVALUATION PRIOR GEOTECHNICAL *QUALIFICATIONS BASED ON

AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED REPORT, BUILDING ASTM D3740

BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE PAD GENERAL

INSPECTOR QUALIFICATIONS

*QUALIFICATIONS BASED ON

*QUALIFICATIONS BASED ON

*QUALIFICATIONS BASED ON

*QUALIFICATIONS BASED ON

ASTM D3740

ASTM D3740

GRADUATE ENGINEER

ASTM E329 & ASTM

*QUALIFICATIONS BASED ON

*QUALIFICATIONS BASED ON

ASTM E329 & ASTM

TYPE AND/OR FREQUENCY OF TESTING

SITE PREPARATION

and/or A2LA, and CCRL of the National Bureau of Standards.

ASTM D-2922 and D-3017 for Density control of compaction

the RDPiRC prior to start of inspections;

ASTM C1077 for concrete,

ASTM C1093 for masonry.

ASTM D3740 for soils,

specified in other sections of the IBC.

VERIFICATION

MONITORING

CONTINUOUS

OR PERIODIC

REQUIRED INSPECTION

VERIFICATION, OR TEST

1. SOILS (SLAB ON GRADE)

VISUAL OBSERVATION

B. CHEMICAL INJECTION N/A

A. SUB-GRADE

2. PROOFROLLING

OBSERVATIONS

3. MOISTURE

CONDITIONING &

RECOMPACTION

C. DURING FILL

D. EVALUATION OF IN-

PLACE DENSITY OF FILL

2A. PILE FOUNDATIONS

A. THE GEOTECHNICAL N/A

B. ALL FOOTINGS SHALL N/A

ENGINEER OR A QUALIFIED

E.I.T. INVOLVED IN THE

ORIGINAL GEOTECHNICAL

ENGINEER SHALL BE

PRESENT DURING THE

EXCAVATION OF

THE FIRST PILE.

PROVIDE THE

BE OBSERVED AND MONITORED BY A

REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL

GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS

THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.

THAT ARE TO REMAIN WITH

INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL

PLACEMENT





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CUMENTS	1Y TRACK IMPF
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Project NO.: 22028 Date:05/23/2024

SPECIAL INSPECTIONS

3. CONCRETE CONSTRUCTION L. REMOVAL OF SHORES	PERIODIC	VEDICY IN CITIL CONCRETE STRENGTH PRIOR TO	ACL 719 OIL 5 11	*QUALIFICATIONS BASED ON
AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PENIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13	ASTM E329
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURE REPRESENTATIVE
4. STEEL CONSTRUCTION			IBC 1705.2	
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:	N/A	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	N/A	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 335, SECTION A3.4; AISC LRFD, SECTION A3.3	
B. HIGH STRENGTH BOLTING:	N/A	1. BEARING-TYPE CONNECTIONS.	IBC 1704.3.3; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	N/A	2. SLIP-CRITICAL CONNECTIONS.	AISC LRFD SECTION M2.5	
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL:	N/A	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	N/A	2. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR ASTM A 568	
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	N/A	IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	N/A	2. MANUFACTURERS' CERTIFIED OF COMPLIANCE REQUIRED.	AISC, ASD, SECTION A3.6; AISC LRFD, SECTION A3.5	
E. WELDING: OF STRUCTURAL STEEL:	N/A	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	IBC 1705.2.2.1; STRUCTURAL STEEL GENERAL NOTES	CWI AND ASNT
	N/A	2. MULTIPASS FILLET WELDS.	AWS D1.1	CWI AND ASNT OR LICENSED ENGINEER
	N/A	3. SINGLE-PASS FILLET WELDS > 5/16"		
	N/A	4. SINGLE-PASS FILLET WELDS ≤ 5/16"		
	N/A	5. FLOOR AND DECK WELDS.	AWS D1.3	
F. WELDING OF REINFORCING	N/A	VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706.	IBC 1705.2.2.1.2	CWI/ASSOCIATE/TECHNICIAN TRAINED IN FIELD OF WORK
JILLL.	N/A	2. REINFORCING STEEL—RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.		YEAR OF EXPERIENCE.
	N/A	3. SHEAR REINFORCEMENT.		
	N/A	4. OTHER REINFORCING STEEL.		
	N/A N/A N/A	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706. 2. REINFORCING STEEL—RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. 3. SHEAR REINFORCEMENT.	IBC 1705.2.2.1.2	TRÁINED IN FIÉLD O AND HAS AT LEAST

DEFERRED SUBMITTALS									
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION						
STEEL		х							
CONCRETE		Х							
WOOD		Х							

2B. PIER FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	N/A	1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDE IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.8 GEOTECHNICAL REPORT;	GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. 3. CONCRETE CONSTRUCTION		PROVIDE RECORD OF EACH PIER INSTALLED. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.8 GEOTECHNICAL REPORT;	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR; AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1704.4 ACI 318: CH. 3.5, 7.1-7.7; CONCRETE AND REINFORCING GENERAL NOTES.	*QUALIFICATIONS BASED ON ASTM E329
B. REINFORCING STEEL WELDING	N/A	NO FIELD WELDING PERMITTED.	AWS D1.4 ACI 318: 3.5.2	CWI OR ASSOCIATE CWI
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2-5.4	*QUALIFICATIONS BASED ON ASTM C1077
F. SAMPLING OF FRESH CONCRETE.	CONTINUOUS EACH CONCRETE POUR;	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONHE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 50 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE THE POINT OD DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORST OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PDPIRC (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	*QUALIFICATIONS BASED ON ASTM C1077
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS		ACI 318-CH. 5.9, 5.10	*QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13	*QUALIFICATIONS BASED ON ASTM C1077
I. PRE-STRESSED CONCRETE	N/A	APPLICATION OF PRESTRESSING FORCE. GROUTING OF BOUNDED PRESTRESSING TENDONS IN SEISMIC—FORCE RESISTING SYSTEMS.		*QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	N/A			TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
K. POST-TENSIONED CONCRETE:	N/A	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.		*QUALIFICATIONS BASED ON ASTM E329
	N/A	2. THE POST-TENSIONING ENGINEER, OR A MEMBER OF HIS STAFF, SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN.		
	N/A	3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES.		
	N/A	4. RECORDS OF ALL JACKING FORCES AND ELINGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTI FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER.		

OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

CRSI - CONCRETE REINFORCING STEEL INSTITUTE PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE

*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.

DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS — REF. IBC SECTION 1702

ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS AWS - AMERICAN WELDING SOCIETY CWI - CERTIFIED WELDING INSPECTOR

N/A - NOT APPLICABLE

N		WOOD	X	
COLIMWS I	,			
∖				

THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL

ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING

PTI - POST-TENSIONING INSTITUTE









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CONSTRUCTION

DOCUMENTS

Project NO.: 22028 Date:05/23/2024

Revisions:

SPECIAL INSPECTIONS

'. WOOD CONSTRUCTION		IBC 1704.6		
A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5	TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
B. SITE BUILT ASSEMBLIES	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5	LICENSED ENGINEER OR HIS/HER REPRESENTATIVE.
C. DIAPHRAGMS	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.5.1	
D. TRUSS BRACING	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.		
8. LIGHT GAGE FRAME CONSTI	RUCTION	IBC 1704.13		
A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5.1	TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
B. SITE BUILT ASSEMBLIES	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5.1	LICENSED ENGINEER OR HIS/HER REPRESENTATIVE.
C. DIAPHRAGMS	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.10.3	
D. TRUSS BRACING	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.		

C. PRIOR TO GROUTING,	N/A	1. GROUT SPACE IS CLEAN.		
THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	3. PROPORTIONS OF SITE—PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.		
	N/A	4. CONSTRUCTION OF MORTAR JOINTS.		
D. GROUT PLACEMENT	N/A	VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
	N/A	2. GROUTING OF PRESTRESSING BONDED TENDONS.		
E. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	N/A	VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
F. COMPLIANCE WITH REQUIRED INSPECTION PROVISION OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	N/A	VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	N/A	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURE REPRESENTATIVE
LEVEL 2 INSPECTION:		ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE	N/A	1. PROPORTIONS OF SITE—PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS.		. 01033
FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.		
	N/A	3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	4. GROUT SPACE PRIOR TO GROUTING.		
	N/A	5. PLACEMENT OF GROUT.		
	N/A	6. PLACEMENT OF PRESTRESSING GROUT.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		
	N/A	4. WELDING OF REINFORCEMENT.		
	N/A	PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).		
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	N/A	VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	N/A			
E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093

G. STEEL FRAME JOINT DETAILS; COMPLIANCE WITH APPROVED	N/A	1. DETAILS SUCH AS BRACING & STIFFENING.	IBC 1705.2.1; STRUCTURAL DRAWINGS	PROJECT OF COMPLEX DETAILS: - ASSOCIATE CWI
CONSTRUCTION DOCUMENTS:	N/A	2. MEMBER LOCATIONS.		PROJECTS OF RELATIVELY SIMPLE DETAILS: - TECHNICIAN TRAINED IN
	N/A	3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	N/A	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURE REPRESENTATIVE
5. INSPECTION OF FABRICATO	 RS FOR STRUCTU	IRAL STEEL		
FABRICATION & IMPLEMENTATION PROCEDURES	N/A	FABRICATION AND IMPLEMENTATION PROCEDURES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1	CWI, ASNT, LICENSED ENGINEER
6. MASONRY CONSTRUCTION				
EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES.	SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1		IBC 1705.4	
LEVEL 1 INSPECTION:		ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR.		
VERIFIED TO ENSURE COMPLIANCE:				
	N/A	2. CONSTRUCTION OF MORTAR JOINTS.		
	N/A N/A	CONSTRUCTION OF MORTAR JOINTS. LOCATION OF REINFORCEMENT AND CONNECTORS.		
	N/A N/A	LOCATION OF REINFORCEMENT AND CONNECTORS. PRESTRESSING TECHNIQUE		
	N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS.		
	N/A N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND		
B. THE INSPECTION	N/A N/A N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		
B. THE INSPECTION	N/A N/A N/A	 JOCATION OF REINFORCEMENT AND CONNECTORS. PRESTRESSING TECHNIQUE GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER 		
B. THE INSPECTION	N/A N/A N/A N/A N/A	 JOCATION OF REINFORCEMENT AND CONNECTORS. PRESTRESSING TECHNIQUE GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTUCTION. SPECIFIED SIZE, GRADE AND TYPE OF 		
B. THE INSPECTION	N/A N/A N/A N/A N/A N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. 1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		

1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

<u>2</u> DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS — REF. IBC SECTION 1702

ADSC — THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
ASNT — AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
ASTM — AMERICAN SOCIETY FOR TESTING MATERIALS

AWS - AMERICAN WELDING SOCIETY CWI - CERTIFIED WELDING INSPECTOR

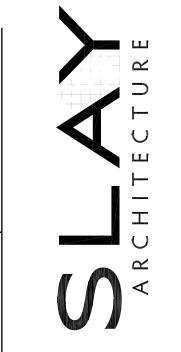
CRSI - CONCRETE REINFORCING STEEL INSTITUTE

PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE PTI - POST-TENSIONING INSTITUTE N/A - NOT APPLICABLE

*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.







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CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRAC

RETAINING WALL PLAN

SCALE: 1/8" = 1'-0"

T.O. FTG. 593'-0"

T.O. FTG. 595'-0"

T.O. FTG. 591'-0"

SPLASH PAD— BY OTHERS

T.O. FTG. 595'-0"

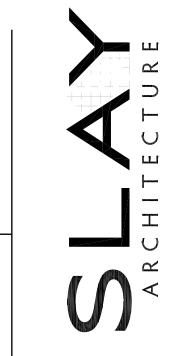
T.O. FTG. 593'-0"

RCP BY OTHERS

Project NO.: 22028 Date: 05/23/2024

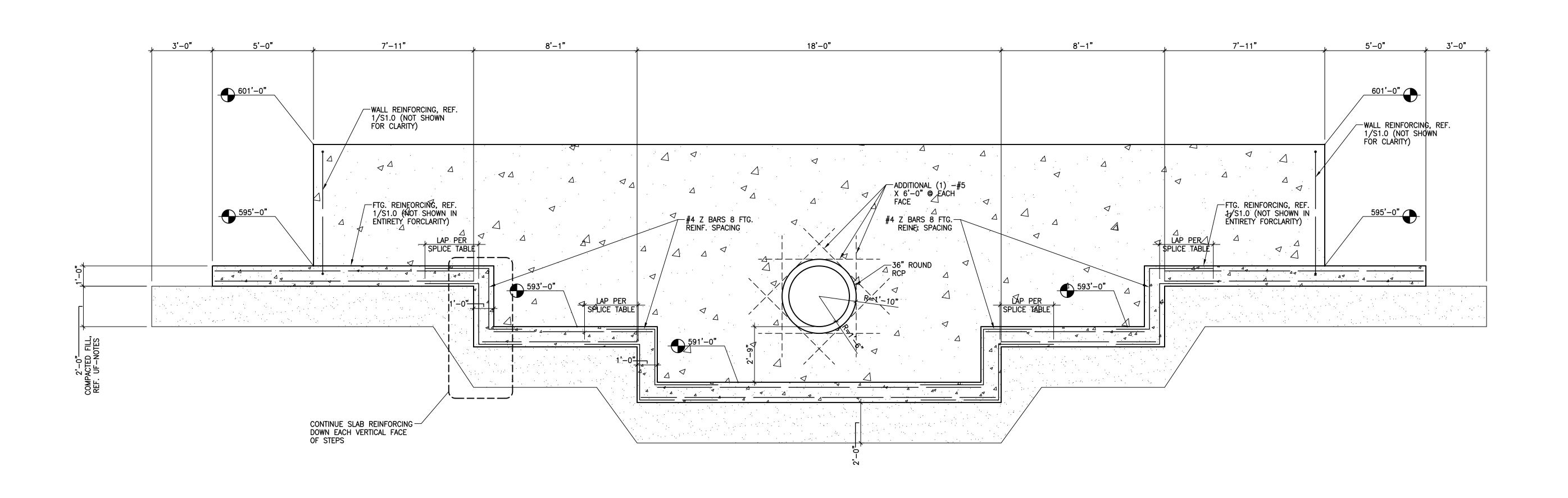




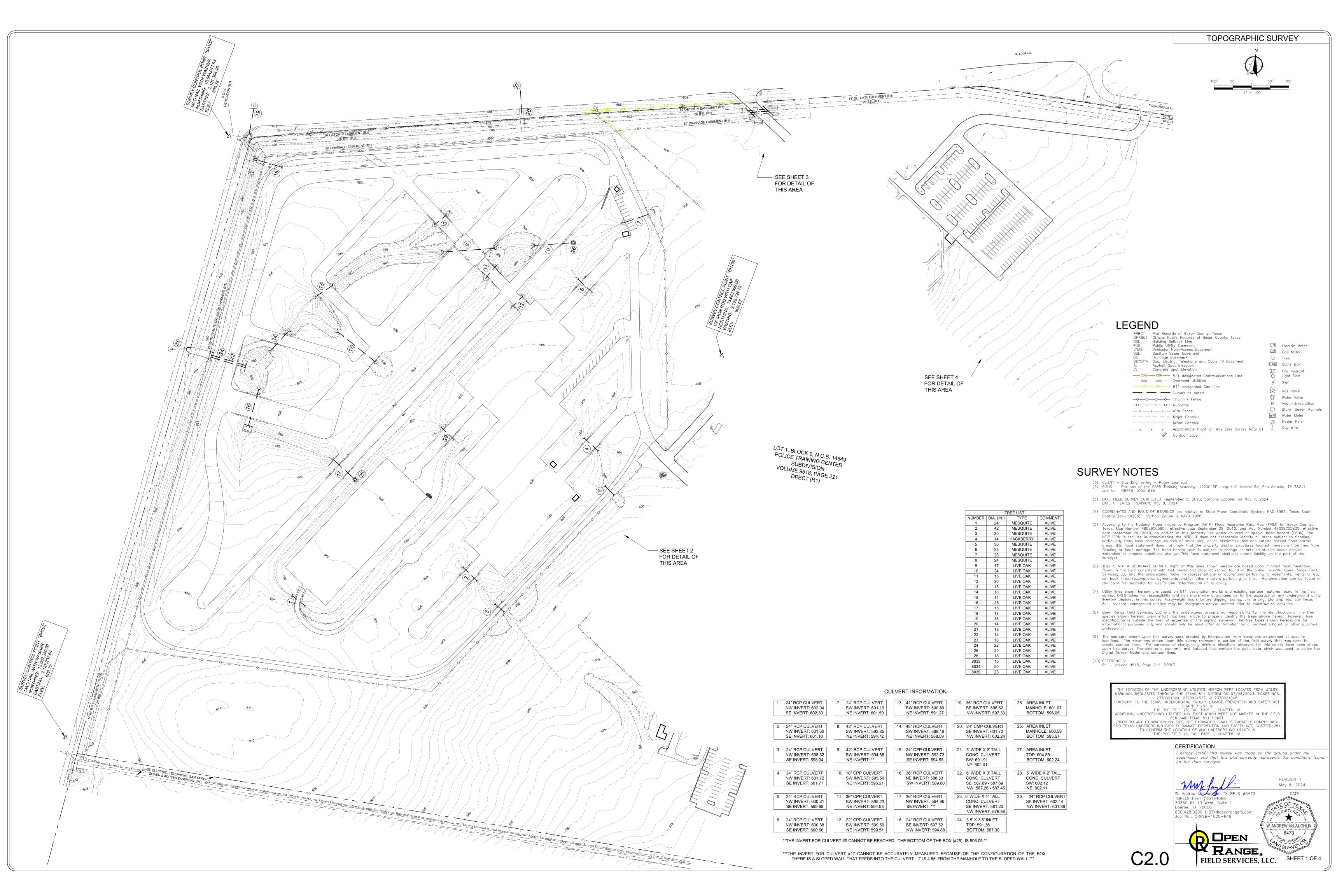


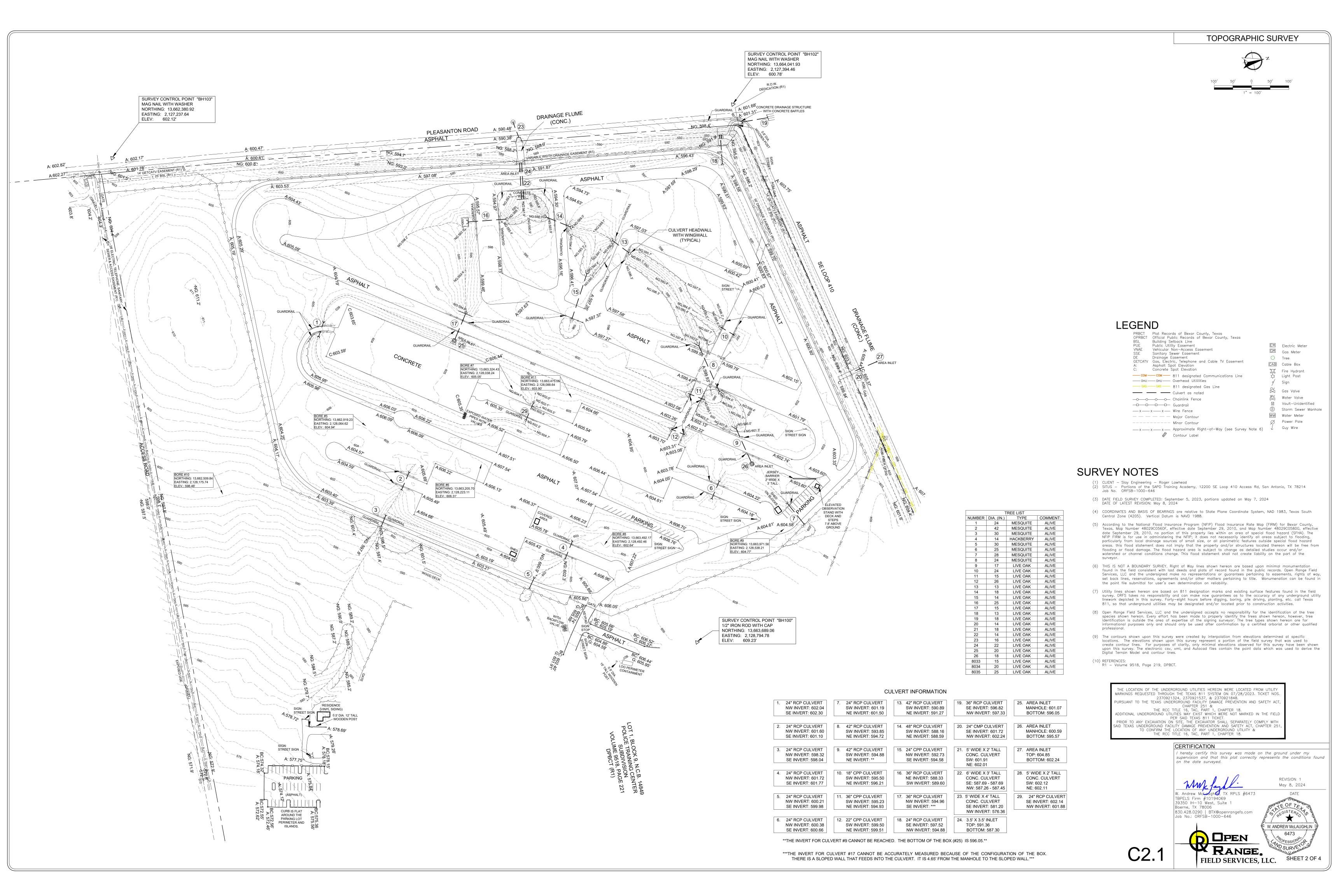
SAN ANTONIO 123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

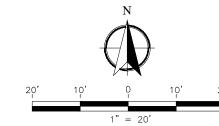
LAREDO9901 McPherson Avenue, #104
Laredo, Texas 78045
T: 956.791.0405



CONSTRUCTION DOCUMENTS Project NO: 22028 Date:05/23/2024 Revisions:









LEGEND PRBCT Plat Records of Bexar County, Texas
OPRBCT Official Public Records of Bexar County, Texas
BSL Building Setback Line
PUE Public Utility Easement EM Electric Meter VNAE Vehicular Non-Access Easement SSE Sanitary Sewer Easement GM Gas Meter DE Drainage Easement
GETCATV Gas, Electric, Telephone and Cable TV Easement
A: Asphalt Spot Elevation
C: Concrete Spot Elevation ○ Tree CAB Cable Box Fire Hydrant —— COM —— COM —— 811 designated Communications Line ☆ Light Post —— ОНU —— ОНU —— Overhead Utililities g/ Sign —— GAS —— GAS —— 811 designated Gas Line —— — Culvert as noted ₩V Water Valve —o—o—o— Chainlink Fence —————— Guardrail D Storm Sewer Manhole — x — x — x — Wire Fence WM Water Meter — — — — — Major Contour Power Pole ----- Minor Contour -x x x Approximate Right-of-Way (see Survey Note 6) $\sqrt{}$ Guy Wire

SURVEY NOTES

NUMBER DIA. (IN.) TYPE COMMENT

24 MESQUITE ALIVE

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20 LIVE OAK 25 LIVE OAK

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LIVE OAK ALIVE

MESQUITE HACKBERRY ALIVE

- (1) CLIENT Slay Engineering Roger Lawhead
 (2) SITUS Portions of the SAPD Training Academy, 12200 SE Loop 410 Access Rd, San Antonio, TX 78214 Job No. ORFSB-1000-646
- (3) DATE FIELD SURVEY COMPLETED: September 5, 2023, portions updated on May 7, 2024 DATE OF LATEST REVISION: May 8, 2024

ీ Contour Label

- (4) COORDINATES AND BASIS OF BEARINGS are relative to State Plane Coordinate System, NAD 1983, Texas South Central Zone (4205). Vertical Datum is NAVD 1988.
- (5) According to the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) for Bexar County, Texas, Map Number 48029C0560F, effective date September 29, 2010, and Map Number 48029C0580G, effective date September 29, 2010, no portion of this property lies within an area of special flood hazard (SFHA). The NFIP FIRM is for use in administering the NFIP; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside special flood hazard areas. this flood statement does not imply that the property and/or structures located thereon will be free from flooding or flood damage. The flood hazard area is subject to change as detailed studies occur and/or watershed or channel conditions change. This flood statement shall not create liability on the part of the
- (6) THIS IS NOT A BOUNDARY SURVEY. Right of Way lines shown hereon are based upon minimal monumentation found in the field consistent with last deeds and plats of record found in the public records. Open Range Field Services, LLC and the undersigned make no representations or guarantees pertaining to easements, rights of way, set back lines, reservations, agreements and/or other matters pertaining to title. Monumenation can be found in the point file submittal for user's own determination on reliability.
- (7) Utility lines shown hereon are based on 811 designation marks and existing surface features found in the field survey. ORFS takes no responsibility and can make now guarantees as to the accuracy of any underground utility linework depicted in this survey. Forty—eight hours before digging, boring, pile driving, planting, etc. call Texas 811, so that underground utilities may be designated and/or located prior to construction activities.
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- (9) The contours shown upon this survey were created by interpolation from elevations determined at specific locations. The elevations shown upon this survey represent a portion of the field survey that was used to create contour lines. For purposes of clarity, only minimal elevations observed for this survey have been shown upon this survey. The electronic csv, xml, and Autocad files contain the point data which was used to derive the Digital Terrain Model and contour lines.
- (10) REFERENCES: R1 Volume 9518, Page 219, DPBCT.

THE LOCATION OF THE UNDERGROUND UTILITIES HEREON WERE LOCATED FROM UTILITY THE LOCATION OF THE UNDERGROUND UTILITIES HEREON WERE LOCATED FROM UTILITY MARKINGS REQUESTED THROUGH THE TEXAS 811 SYSTEM ON 07/28/2023. TICKET NOS. 2370921324, 2370921537, & 237092148.

PURSUANT TO THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 251 & THE RCC TITLE 16, TAC, PART 1, CHAPTER 18.

ADDITIONAL UNDERGROUND UTILITIES MAY EXIST WHICH WERE NOT MARKED IN THE FIELD PER SAID TEXAS 811 TICKET.

PRIOR TO ANY EXCAVATION ON SITE, THE EXCAVATOR SHALL SEPARATELY COMPLY WITH SAID TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 251, TO CONFIRM THE LOCATION OF ANY UNDERGROUND UTILITY & THE RCC TITLE 16, TAC, PART 1, CHAPTER 18.

CERTIFICATION

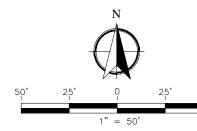
I hereby certify this survey was made on the ground under my supervision and that this plat correctly represents the conditions found on the date surveyed. REVISION 1 May 8, 2024 W. Andrew McLoughton, TX RPLS #6473 DATE TBPELS Firm #10194069 39350 IH-10 West, Suite 1 Boerne, TX 78006 830.428.0290 | BTX@openrangefs.com Job No.: ORFSB-1000-646 W. ANDREW McLAUGHLIN 6473 RANGE. FIELD SERVICES, LLC. SHEET 3 OF 4

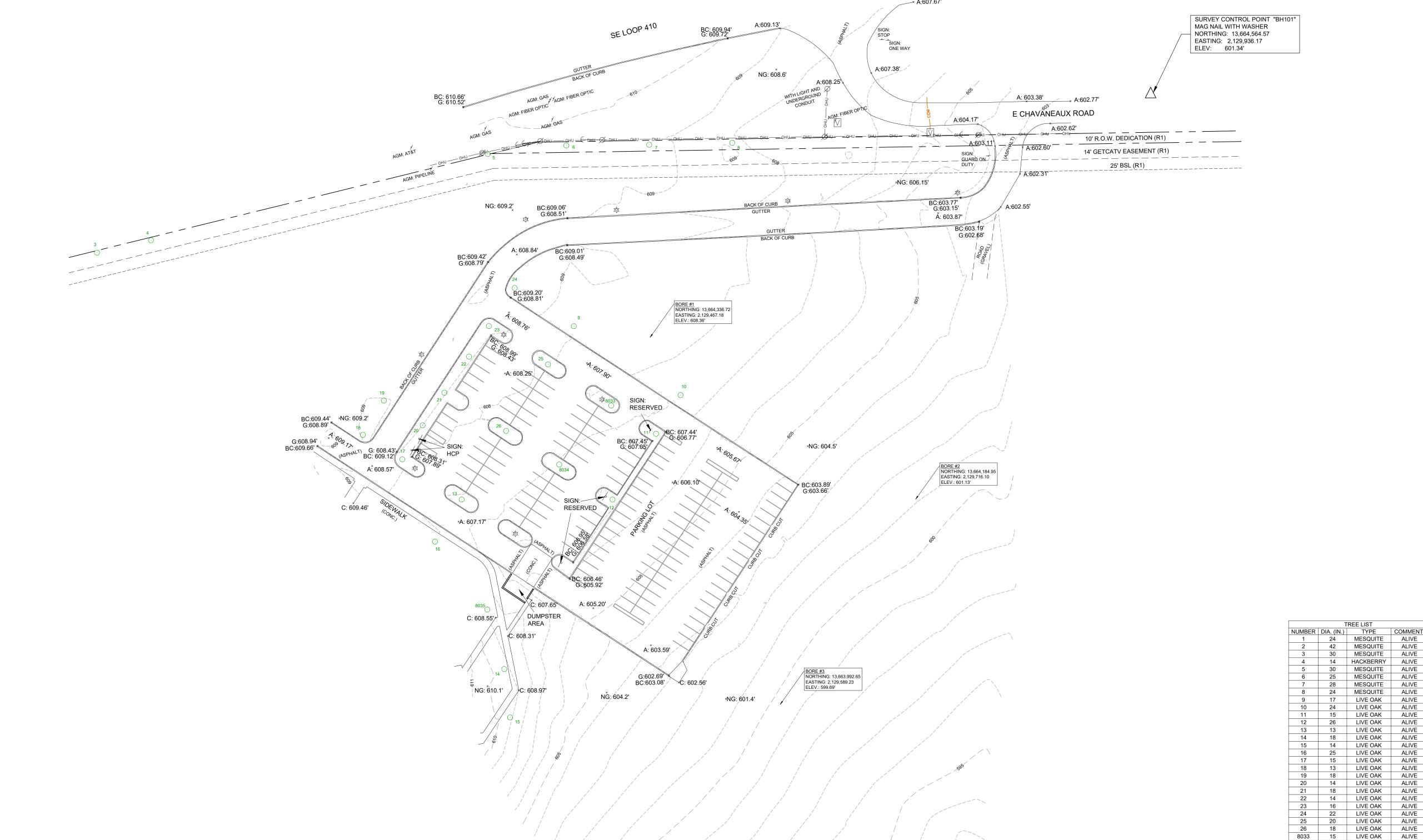
CUI VERT INFORMATION

			C	ULVEF	RT INFORMATION				
1.	24" RCP CULVERT NW INVERT: 602.04 SE INVERT: 602.30	SW	RCP CULVERT INVERT: 601.19 INVERT: 601.50	13.	42" RCP CULVERT SW INVERT: 590.89 NE INVERT: 591.27	19	SE INVERT: 596.82 NW INVERT: 597.33	25.	AREA INLET MANHOLE: 601.07 BOTTOM: 596.05
2.	24" RCP CULVERT NW INVERT: 601.60 SE INVERT: 601.10	SW	RCP CULVERT INVERT: 593.85 INVERT: 594.72	14.	48" RCP CULVERT SW INVERT: 588.16 NE INVERT: 588.59	20). 24" CMP CULVERT SE INVERT: 601.72 NW INVERT: 602.24	26.	AREA INLET MANHOLE: 600.59 BOTTOM: 595.57
3.	24" RCP CULVERT NW INVERT: 598.32 SE INVERT: 598.04	SW	RCP CULVERT INVERT: 594.88 INVERT: **	15.	24" CPP CULVERT NW INVERT: 592.73 SE INVERT: 594.58	2	. 5' WIDE X 2' TALL CONC. CULVERT SW: 601.91 NE: 602.01	27.	AREA INLET TOP: 604.85 BOTTOM: 602.24
4.	24" RCP CULVERT NW INVERT: 601.72 SE INVERT: 601.77	SW	CPP CULVERT INVERT: 595.50 INVERT: 596.21	16.	36" RCP CULVERT NE INVERT: 588.33 SW INVERT: 589.60	22	2. 6' WIDE X 3' TALL CONC. CULVERT SE: 587.69 - 587.69 NW: 587.26 - 587.45	28.	5' WIDE X 2' TALL CONC. CULVERT SW: 602.12 NE: 602.11
5.	24" RCP CULVERT NW INVERT: 600.21 SE INVERT: 599.98	SW	CPP CULVERT INVERT: 595.23 INVERT: 594.93	17.	36" RCP CULVERT NW INVERT: 594.96 SE INVERT: ***	23	B. 5' WIDE X 4' TALL CONC. CULVERT SE INVERT: 581.20 NW INVERT: 576.36	29.	24" RCP CULVERT SE INVERT: 602.14 NW INVERT: 601.88
6.	24" RCP CULVERT NW INVERT: 600.38 SE INVERT: 600.66	SW	CPP CULVERT INVERT: 599.50 INVERT: 599.51	18.	24" RCP CULVERT SE INVERT: 597.52 NW INVERT: 594.88	24	1. 3.5' X 3.5' INLET TOP: 591.36 BOTTOM: 587.30		

THE INVERT FOR CULVERT #9 CANNOT BE REACHED. THE BOTTOM OF THE BOX (#25) IS 596.05.

THE INVERT FOR CULVERT #17 CANNOT BE ACCURATELY MEASURED BECAUSE OF THE CONFIGURATION OF THE BOX. THERE IS A SLOPED WALL THAT FEEDS INTO THE CULVERT. IT IS 4.65' FROM THE MANHOLE TO THE SLOPED WALL.





NORTHING: 13,663,768.85 EASTING: 2,129,639.99 ELEV.: 593.68'

CULVERT INFORMATION

1. 24" RCP CULVERT NW INVERT: 602.04 SE INVERT: 602.30	7. 24" RCP CULVERT SW INVERT: 601.19 NE INVERT: 601.50	13. 42" RCP CULVERT SW INVERT: 590.89 NE INVERT: 591.27	19. 36" RCP CULVERT SE INVERT: 596.82 NW INVERT: 597.33	25. AREA INLET MANHOLE: 601.07 BOTTOM: 596.05
2. 24" RCP CULVERT NW INVERT: 601.60 SE INVERT: 601.10	8. 42" RCP CULVERT SW INVERT: 593.85 NE INVERT: 594.72	14. 48" RCP CULVERT SW INVERT: 588.16 NE INVERT: 588.59	20. 24" CMP CULVERT SE INVERT: 601.72 NW INVERT: 602.24	26. AREA INLET MANHOLE: 600.59 BOTTOM: 595.57
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4. 24" RCP CULVERT NW INVERT: 601.72 SE INVERT: 601.77	10. 18" CPP CULVERT SW INVERT: 595.50 NE INVERT: 596.21	16. 36" RCP CULVERT NE INVERT: 588.33 SW INVERT: 589.60	22. 6' WIDE X 3' TALL CONC. CULVERT SE: 587.69 - 587.69 NW: 587.26 - 587.45	28. 5' WIDE X 2' TALL CONC. CULVERT SW: 602.12 NE: 602.11
5. 24" RCP CULVERT NW INVERT: 600.21 SE INVERT: 599.98	11. 36" CPP CULVERT SW INVERT: 595.23 NE INVERT: 594.93	17. 36" RCP CULVERT NW INVERT: 594.96 SE INVERT: ***	23. 5' WIDE X 4' TALL CONC. CULVERT SE INVERT: 581.20 NW INVERT: 576.36	29. 24" RCP CULVERT SE INVERT: 602.14 NW INVERT: 601.88
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LEGEND

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PUE Public Utility Easement EM Electric Meter VNAE Vehicular Non-Access Easement SSE Sanitary Sewer Easement GM Gas Meter DE Drainage Easement
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SURVEY NOTES

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25 LIVE OAK

- (1) CLIENT Slay Engineering Roger Lawhead
 (2) SITUS Portions of the SAPD Training Academy, 12200 SE Loop 410 Access Rd, San Antonio, TX 78214 Job No. ORFSB-1000-646
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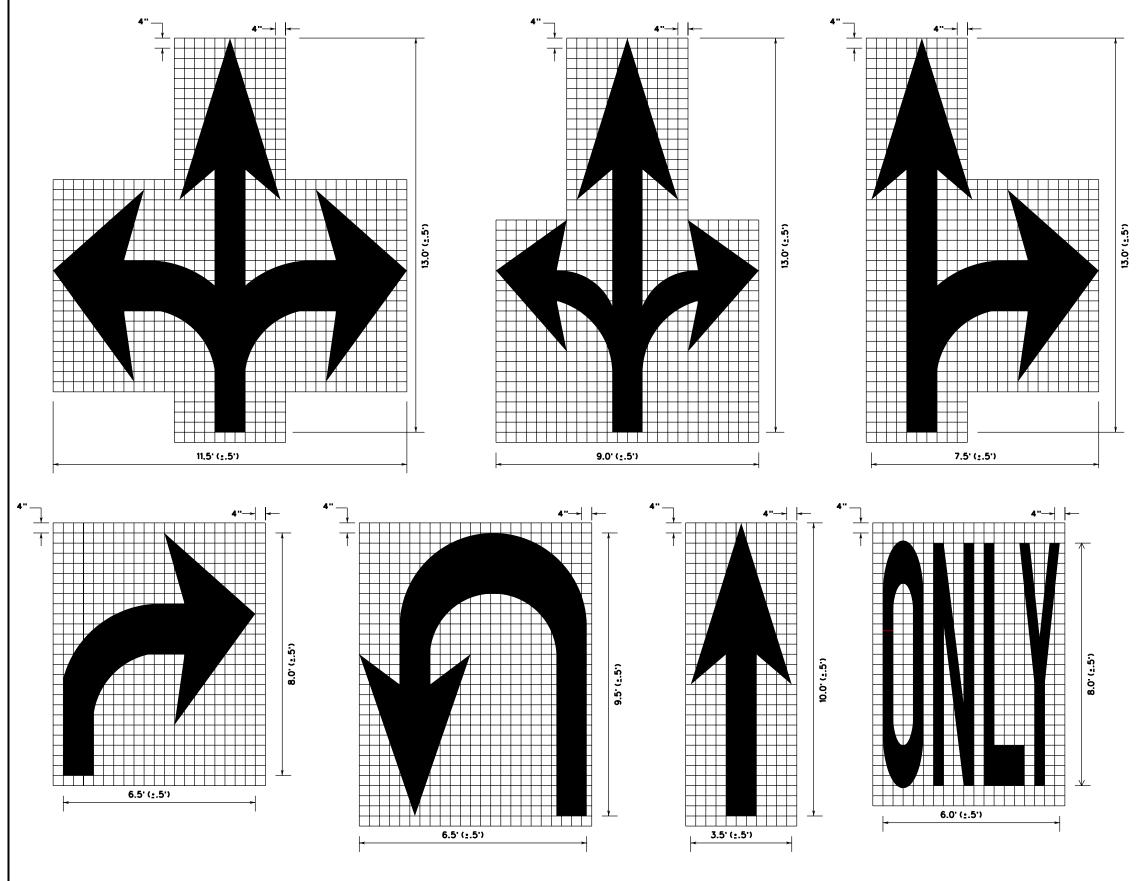
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CERTIFICATION

I hereby certify this survey was made on the ground under my supervision and that this plat correctly represents the conditions found on the date surveyed. REVISION 1 May 8, 2024 W. Andrew McLaughlin TX RPLS #6473 DATE TBPELS Firm #10194069 39350 IH-10 West, Suite 1 Boerne, TX 78006 830.428.0290 | BTX@openrangefs.com \star Job No.: ORFSB-1000-646 W. ANDREW McLAUGHLIN FIELD SERVICES, LLC. SHEET 4 OF 4



NOTES:

- 1. MINIMUM 8 FOOT WHITE MARKINGS SHALL BE USED, UNLESS OTHERWISE NOTED. IF MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE PLACED WITH FIRST WORD NEAREST THE DRIVER.
- 2. THESE DETAILS ARE STANDARD SIZE FOR NORMAL INSTALLATION; SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD DEPENDING ON CONDITIONS.
- 3. THE LONGITUDINAL SPACE BETWEEN MARKINGS SHOULD BE 30 FEET.
- 4. MARKINGS CONSIDERED APPROPRIATE FOR USE WHEN WARRANTED INCLUDE THE FOLLOWING:

A. REGULATORY

STOP
RIGHT (LEFT) TURN ONLY
25 MPH
SYMBOL ARROWS
B. WARNING
STOP AHEAD
SIGNAL AHEAD
SCHOOL
SCHOOL X-ING
PED X-ING
R X R (SEE RCPM DETAIL)
OTHER WORDS OR SYMBOLS MAY BE NECESSARY UNDER
CERTAIN CONDITIONS

- 5. UNCONTROLLED USE OF PAVEMENT MARKINGS CAN RESULT IN DRIVER CONFUSION. WORD AND SYMBOL MARKINGS SHOULD BE NO MORE THAN THREE LINES.
- 6. 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.
- 7. PAVEMENT MARKINGS SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH, WITH SCHOOL MESSAGES 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".
- 8. SPACING BETWEEN LETTERS SHOULD BE APPROXIMATELY
 4 INCHES. THE WIDTH OF LETTERS MAY VARY DEPENDING ON
 THE WIDTH OF THE TRAVEL LANES.
- 9. LANE-USE ARROW MARKINGS MAY BE USED TO CONVEY
 EITHER GUIDANCE OR MANDATORY MESSAGES. ARROWS USED
 TO CONVEY A MANDATORY MOVEMENT MUST BE ACCOMPANIED BY
 STANDARD SIGNS AND THE PAVEMENT MARKING WORD "ONLY".
- 10.PAVEMENT MARKINGS ARE TO BE LOCATED AS SPECIFIED ELSEWHERE IN THE PLANS.

SEPTEMBER 2009

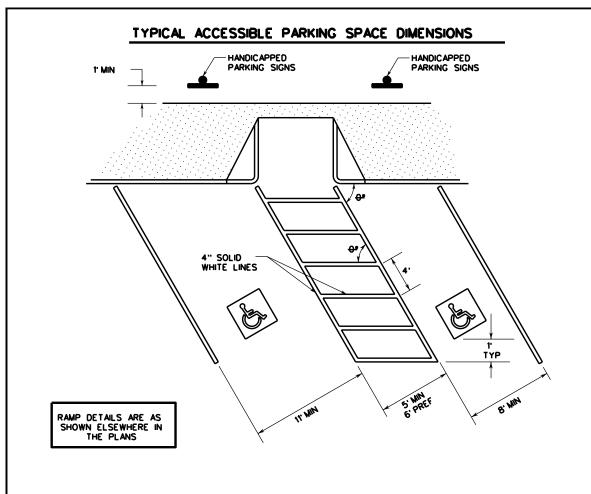
CITY OF SAN ANTONIO

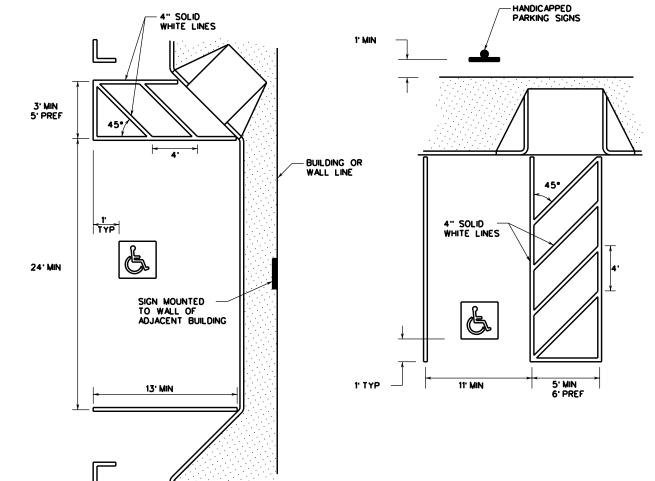
DEPARTMENT OF PUBLIC WORKS

STANDARD PAVEMENT MARKINGS

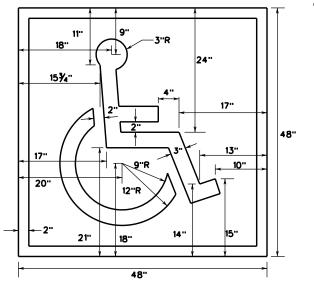
(ARROWS)



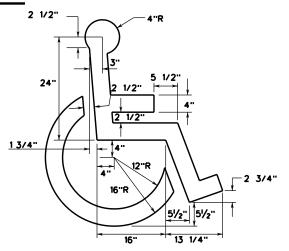




PAVEMENT MARKINGS







SYMBOL ONLY SYMBOL: BLUE OR WHITE

- 1. ALL PARKING SPACE LIMIT LINES SHALL BE 4" SOLID WHITE LINES.
- 2. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE. AISLE MARKINGS SHALL BE WHITE.
- 3. DIMENSIONS OF LIMIT LINES, AISLE MARKINGS, AND SYMBOL (WITH OR WITHOUT BACKGROUND) MAY VARY 10%.
- 4. PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
- A) ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS,
 B) SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES
 SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE,
 C) MAY BE PAINTED OR PREFABRICATED MATERIAL, AND
 D) SHALL BE 30"x30" MINIMUM.
- 5. WITH APPROVAL OF THE CITY TRAFFIC ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30"x30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE ILLUSTRATED COLORS FOR BACKGROUND, SYMBOL AND BORDER.
- 6. ALL SLOPE IN AND AROUND EXPECTED WHEEL CHAIR PATH SHALL NOT EXCEED 2% X-SLOPES.

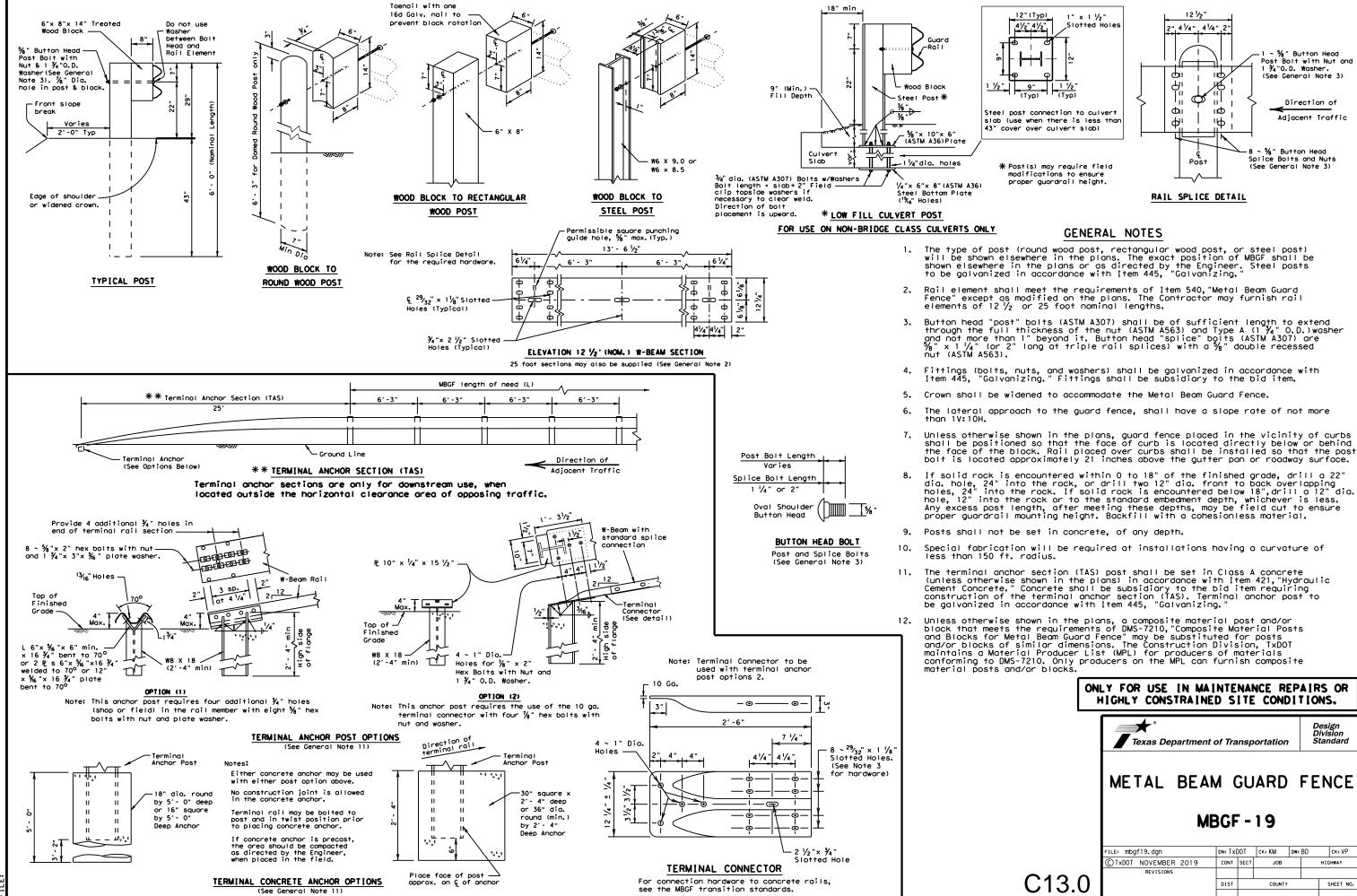
SEPTEMBER 2009

CITY OF SAN ANTONIO DEPARTMENT OF PUBLIC WORKS

TRAFFIC ENGINEERING STANDARDS ACCESSIBLE PARKING

PAVEMENT MARKINGS FOR SHEET 6 OF 16

C13.3



1 \sim $\frac{5}{8}$ " Button Head Post Bolt with Nut and 1 $\frac{3}{4}$ "O.D. Washer.

Direction of

Adjacent Traffic

ck: VP

SHEET NO.

HIGHWAY

JOB

·8 ~ %" Button Head Splice Bolts and Nuts

(See General Note 3)

(See General Note 3)