SAM COLLINS PARK PHASE 1A

PREPARED FOR

THE SABINE RIVER AUTHORITY OF TEXAS

BURKEVILLE, TX

SAM FORSE COLLINS RECREATIONAL PARK
BURKEVILLE, TX 75932

100% CONSTRUCTION DOCUMENTS: NOVEMBER 2022

ISSUED FOR BID

Sabine River Authority of Texas

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PREPARED BY:

Kimley»Horn

Landscape Architects, Engineers, and Planners

11700 Katy Freeway Suite 800 Tel. No. (281) 597-9300
Houston, Texas 77079
(CONTACT: KRISTINA MALEK, PLA)

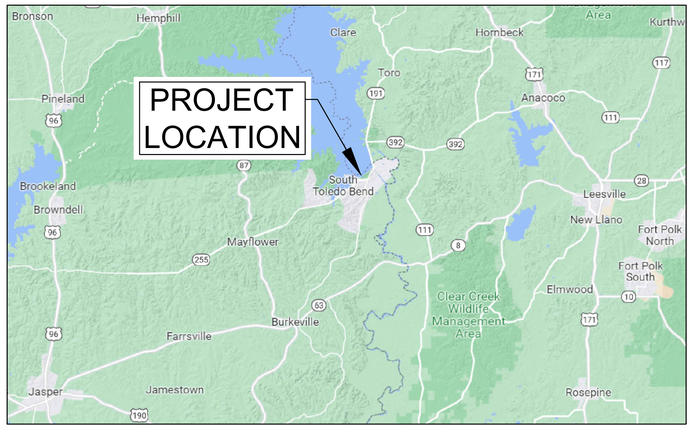
CONSULTANTS:

WINDROSE
11111 RICHMOND AVE. SUITE 150 HOUSTON TEXAS 77082
PHONE: (713) 458-2281
(CONTACT: ROBERT KNESS)

HYDREX ENVIRONMENTAL
1120 NW STALLINGS DR. NACOGDOCHES, TEXAS 75964
PHONE: (936) 568-9451
(CONTACT: CLAYTON COLLIER)

ENGINEERING ASSOCIATES
PO BOX 167. ALVORD, TX 76225
PHONE: (903) 474-1977
(CONTACT: JIM WEATHERS)

SETH HEIDMAN IRRIGATION DESIGN AND CONSULTING,LLC
6009 W. PARKER RD. #149-121 PLANO, TX 75093
PHONE: (972) 816-5141
(CONTACT: SETH HEIDMAN)



811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

COVER SHEET

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
00.00

Plotted By:Luong, Emily Sheet Set:Kha Layout:COVER SHEET November 01, 2022 04:10:31pm K:\HOU_LA\LP\068925100_SRA Sam Collins Park\CAD\Sheets\COVER.dwg
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No.	DATE	BY

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-5300
WWW.KIMLEY-HORN.COM
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TEXAS
BURKEVILLE

SHEET NUMBER
G0.00

Plotted By:Lustig, Emily Sheet Size:24x36 Layout:SHEET INDEX November 01, 2022 - 02:10:34pm V: K:\HOU-LDAP\068925100_SRA Sam Collins Park\CAD\Sheets\COVER.dwg
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GENERAL CONSTRUCTION NOTES

1. UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATERLINE AND APPURTENANCES, WASTEWATER, STORM WATER LINES, PAVING, SIDEWALKS AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE SABINE RIVER AUTHORITY STANDARD OR PREFERENCE AT NO ADDITIONAL COST.
3. CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS, AND PERMANENT OBJECTS WHICH ARE NOT SCHEDULED TO BE REMOVED AS A PART OF THIS PROJECT. PRIOR TO THE REMOVAL OF ANY TREES THE CONTRACTOR MUST TAG AND FIELD VERIFY REMOVAL WITH OWNER'S REPRESENTATIVE AT 346-888-3887.
4. THE CONTRACTOR SHALL NOT DUMP ANY DIRT OR OTHER MATERIALS ONTO A PROPERTY OUTSIDE OF THE BOUNDARY OF THE PERMITTED PROJECT AND WITHIN NEWTON COUNTY LIMITS WITHOUT A VALID DEVELOPMENT/GRADING PERMIT. IF SUCH DUMPING OCCURS WITHOUT A VALID PERMIT, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMOVAL OF ANY DISCARDED DIRT OR OTHER MATERIALS TO AN APPROVED LOCATION AT THE CONTRACTOR EXPENSE.
5. ON SITE MECHANICAL SWEEPERS (ROAD BROOM) IS REQUIRED FOR THE PROJECTS HAULING DIRT TO AND FROM THE SITE IN EXCESS OF 120 CUBIC YARDS PER DAY.
6. ALL PAVEMENT TO BE REMOVED, INCLUDING CONCRETE OR ASPHALT DRIVEWAYS AND SIDEWALKS, SHALL BE SAW CUT TO FULL DEPTH PRIOR TO REMOVAL.
7. ALL WORK WITHIN RIGHTS-OF-WAY OR PUBLIC EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEWTON COUNTY SPECIFICATIONS, ACCEPTED STANDARDS AND APPROVED DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UNDERSTANDING ALL RELEVANT INFORMATION PRIOR TO CONSTRUCTION.
8. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DAMAGE TO DITCH OR STRUCTURES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION OR BETTER.
9. CONSTRUCTION SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION. ALL WORKS, SERVICES, AND LABOR SHALL CONFORM TO THE RULES AND REGULATIONS OF NEWTON COUNTY.
10. THE CONTRACTOR SHALL NOTIFY THE LOCAL AUTHORITY OR GOVERNING AGENCY OF THE BEGINNING DATE OF CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT NO WORK IS DONE WITHOUT THE PROPER INSPECTIONS AND PERMITS BY THE LOCAL AUTHORITY OR GOVERNING AGENCY.
11. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE CONSTRUCTION PLANS WITH THOSE MEASURED IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS UNLESS NOTIFIED TO OTHERWISE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND GOOD WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
14. AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES, IE THE PROPERTY, EQUAL TO OR GREATER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. ALL AREAS DISTURBED ALONG THE SITE SHALL BY HYDROMULCHED SEEDED IN ACCORDANCE WITH SPECIFICATION UNLESS OTHERWISE NOTED.
15. MINIMIZE AND CONTROL SPREADING OF DUST AND FLYING PARTICLES, AS REQUIRED BY GOVERNING REGULATIONS. USE TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS SUCH AS WATERING TO PREVENT THE SPREAD OF DUST, DIRT, AND DEBRIS.
16. ALL WORKS SHALL BE CONDUCTED WITHIN THE RIGHT-OF-WAY AND/ OR EASEMENTS SHOWN UNLESS OTHERWISE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
17. NO EXCAVATION AREA SHALL BE LEFT OPEN DURING NON-WORKING HOURS. ALL UNATTENDED EXCAVATION OVER 2 FEET IN DEPTH SHALL BE PROTECTED BY BRIGHT ORANGE SAFETY FENCING DURING NORMAL WORKING HOURS AND COVERED SECURELY IF LEFT OPEN AFTER HOURS.
18. THE CONTRACTOR IS NOT AUTHORIZED TO OPERATE WATER/SANITARY INFRASTRUCTURE UTILITIES, OWNED OR OPERATED BY BROOKELAND FRESHWATER SUPPLY DISTRICT (BROOKELAND FWSD). CONTRACTOR SHALL CONTACT BROOKELAND FWSD TO REQUEST AUTHORIZED PERSONNEL TO PERFORM ALL UTILITY OPERATIONS.
19. THE CONTRACTOR SHALL NOT OBTAIN WATER FROM (BROOKELAND FWSD) FIRE HYDRANTS OR OTHER SOURCES FROM THE DISTRIBUTION SYSTEM WITHOUT PRIOR PERMISSION.
20. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO THE WORK AREA AT ALL TIMES.
21. THE CONTRACTOR SHALL OBTAIN APPROVAL ON INGRESS/EGRESS ROUTES, HAULING ROUTES, ETC. FROM NEWTON COUNTY.
22. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIOD OF INACTIVITY, WHEN IN AN AREA DIRECT PUBLIC ACCESS, AND AS DIRECTED BY THE SABINE RIVER AUTHORITY.
23. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, FIRE HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR THE MATERIALS AND EQUIPMENT.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORAGE OF ALL MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. ANY DEFECTIVE MATERIAL INCORPORATED INTO THE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THERE SHALL BE NO PAYMENT MADE FOR STORED MATERIAL.
25. SEE THE STORM WATER POLLUTION PREVENTION PLAN FOR ADDITIONAL ENVIRONMENTAL NOTES AND DETAILS.
26. IRON RODS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PROFESSIONAL LAND SURVEYOR FOR THE ORIGINAL PROPERTY OWNER AT NO SEPARATE PAY.
27. MOWING, MAINTENANCE AND CLEAN-UP OF THE PROJECT SHALL MEET THE REQUIREMENT OF SPECIFICATION ITEMS 02200 - SITE PREPARATION AND 01140 - CONTRACTOR'S USE OF PREMISSES (NO SEPARATE PAY). MOWING, MAINTENANCE AND CLEAN-UP IS REQUIRED FOR THE PROJECT LIMITS AND DURATION, REGARDLESS OF THE CONTRACTOR'S SCOPE OF ACTIVITIES WITH THE PROJECT.
28. ON ALL PAVEMENT TO BE REMOVED, INCLUDING CONCRETE DRIVEWAYS AND SIDEWALKS, THE PAVEMENT SHALL BE SAWCUT TO FULL DEPTH PRIOR TO REMOVAL.

STORM AND DRAINAGE

1. STORM SEWER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEWTON COUNTY STANDARDS.
2. STORM SEWER MANHOLES AND INLETS SHALL BE BUILT ACCORDING TO TXDOT STANDARDS.
3. THE FINAL ELEVATION OF STORM SEWER MANHOLE RIMS SHALL BE AT FINISHED GRADE. PLAN RIM ELEVATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO REPRESENT FINISHED GRADES.
4. ALL CHANNEL OR SWALE SIDE SLOPES AND/OR OTHER AREAS REQUIRING SEEDING AS DETERMINED BY THE OWNER'S REPRESENTATIVE, TO BE HYDROMULCH SEEDED.

SANITARY SEWER

1. ALL MANHOLES MUST BE PRECAST IN ACCORDANCE WITH THE SABINE RIVER AUTHORITY STANDARD. BRICK MANHOLES ARE NOT ALLOWED. ALL SANITARY MANHOLES SHALL INCLUDE STAINLESS STEEL INFLOW PROTECTORS.
2. ALL SANITARY SEWER PIPES SHALL BE BEDDED AND BACKFILLED, AS APPLICABLE. NO SEPARATE PAY. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY IF WET SANDS ARE ENCOUNTERED. BACKFILL UNDER OR WITHIN 1-FOOT OF EXISTING, PROPOSED OR FUTURE PAVEMENT SHALL BE CEMENT STABILIZED SAND UP TO 1' BELOW THE BOTTOM OF THE PAVING SUBGRADE. TEST REPORTS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT.
3. NO CONNECTIONS SHALL BE MADE TO THE EXISTING SANITARY SEWER LINES UNTIL ALL PROPOSED SEWER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE OWNER'S REPRESENTATIVE. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE CONTRACTOR CONNECTING TO ANY EXISTING SEWER LINES.
4. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO PRESSURE AND DEFLECTION TESTS ON ALL SANITARY LINES.
5. ALL SANITARY SEWERS SHALL BE AIR TESTED PER SPECIFICATIONS.
6. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPE, EXCEPT SERVICE LEADS. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST FOR 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THE TEST IS TO BE RUN USING A MANDREL HAVING AN OUTSIDE DIAMETER EQUAL TO 95% OF THE AVERAGE INSIDE DIAMETER OF THE PIPE. THE MANDREL SHALL HAVE A MINIMUM OF 9 RUNNERS, WITH THE CONTACT LENGTH OF EACH RUNNER EQUAL TO OR GREATER THAN THE PIPE'S NOMINAL DIAMETER. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
7. ALL SANITARY SEWER MANHOLE RIMS SHALL BE SET 3-INCHES ABOVE FINISHED GRADE WITHIN STREET R.O.W., OR WITHIN EASEMENTS. CLEAN FILL SHALL BE ADDED AND SLOPED AWAY FROM THE RIM FOR SURFACE WATER DRAINAGE. PLAN RIM ELEVATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO REPRESENT FINISHED GRADES. COSTS FOR ALL ADJUSTMENTS, INCLUDING PRECAST CONE SECTIONS, AND PRECAST ADJUSTMENT RINGS, ARE TO BE INCLUDED IN THE UNIT PRICE FOR SANITARY SEWER MANHOLES. BRICKS ARE NOT ALLOWED. ALL EXISTING/PROPOSED MANHOLE RIMS WITHIN THE SIDEWALK SHOULD BE FLUSH WITH GRADE.
8. SEALED MANHOLES ARE REQUIRED FOR MANHOLES CONSTRUCTED IN 100-YEAR FLOOD PLAIN.
9. SANITARY SEWER LINES PARALLEL TO WATER LINES SHALL BE INSTALLED WITH AT LEAST 9-FOOT HORIZONTAL AND 2-FOOT VERTICAL CLEARANCE AND IN SEPARATE TRENCHES. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
10. SANITARY SEWER LINES CROSSING WATER LINES MUST HAVE A FULL LENGTH JOINT (18' NOMINAL) CENTERED AT THE CROSSING WITH A MINIMUM SEPARATION DISTANCE OF 6 INCHES.
11. ALL 6 INCH SANITARY SERVICE LEADS SHALL BE LAID WITH A MINIMUM GRADE OF 0.70%.
12. ALL SEWER LINES ENTERING MANHOLE AT A FLOW LINE HIGHER THAN 3'-0" ABOVE THE MANHOLE INVERT MUST BE PROVIDED WITH A DROP PIPE AND HAVE THE INVERT FILLETED.
13. SANITARY SEWER LATERAL SHALL NOT BE CONNECTED TO MANHOLE.
14. ACCESS TO MANHOLES WILL BE BY PORTABLE LADDER, AS STEPS ARE PROHIBITED.

WATER MAINS

1. WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH TXDOT STANDARDS.
2. UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL HAVE A MINIMUM OF 3' OF COVER FOR THE WATERLINE DIAMETER LESS THAN 12 INCH AND 5' FOR 12 INCH AND LARGE PIPES TO FINISHED GRADE.
3. ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATION C-651 AND THEN FLUSHED BEFORE BEING PLACED INTO SERVICE.
4. NOTIFY THE OWNER WHEN SYSTEM IS PRESSURE TESTED AND DISINFECTED. THE OWNER WILL TAKE ALL SAMPLES FOR BACTERIOLOGICAL TESTING AS REQUIRED BY TCEQ.
5. ALL WATER LINES ARE TO BE HYDROSTATICALLY TESTED BY THE CONTRACTOR AT 125 P.S.I. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT 346-888-3887 AT LEAST 24 HOURS PRIOR TO THE HYDROSTATIC TESTS.
6. ALLOWABLE WATER LINE PIPE MATERIAL: SEE SPECIFICATION SECTION 02510.
7. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL UNDERGROUND TEES, BENDS AND LATERALS. THEY SHALL BE BUILT AS PER THE DETAILS PROVIDED TO PREVENT PIPE MOVEMENT. RESTRAINED JOINTS SHALL BE USED WHERE PREVENTING MOVEMENT OF 16-INCH DIAMETER OR GREATER PIPE IS NECESSARY DUE TO THRUST OR WHERE SPECIFIED ON PLANS.
8. ALL WATER VALVES SHALL OPEN COUNTER-CLOCKWISE. ALL WATER VALVES SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF AWWA C-500 AND SHALL BE OF THE RESILIENT SEAT TYPE.
9. ALL BELOW GRADE VALVES SHALL BE GASKETED, HUB-END GATE VALVES WITH A CAST IRON BOX, EXCEPT WHERE FLANGES ARE CALLED OUT ON THE PLANS.
10. ALL FLANGES BELOW GRADE SHALL BE INSULATED.
11. ALL WATER LINES SHALL BE BEDDED AND BACKFILLED, AS APPLICABLE. BACKFILL UNDER OR WITHIN 1-FOOT OF PROPOSED PAVEMENT SHALL BE CEMENT STABILIZED SAND UP TO 1' BELOW THE BOTTOM OF THE SUBGRADE. TEST REPORTS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT. THE COST OF BEDDING AND BACKFILL IS TO BE INCLUDED IN THE UNIT PRICE OF WATER LINE.
12. CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 6 INCHES CLEARANCE AT THE STORM SEWER AND WATERLINE CROSSINGS AND THE SANITARY SEWER AND WATERLINE CROSSINGS. THE WATERLINE SHALL BE LOCATED AT A HIGHER LEVEL THAN THE SEWER WHENEVER POSSIBLE.
13. NECESSARY PRECAUTIONS MUST BE TAKEN DURING WATER LINE CONSTRUCTION, PER AWWA STANDARDS. PRECAUTIONS INCLUDE KEEPING THE PIPE CLEAN AND COPING OR OTHERWISE EFFECTIVELY COVERING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
14. NO CONNECTIONS SHALL BE MADE TO THE EXISTING WATER LINES UNTIL ALL PROPOSED WATER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE SABINE RIVER AUTHORITY. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE SABINE RIVER AUTHORITY AT LEST 48 HOURS PRIOR TO CONNECTING TO ANY EXISTING WATER LINES.

TRAFFIC CONTROL

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD-LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. FLAGGERS ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
3. CONTRACTOR SHALL COVER EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW.
4. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
5. IF CONTRACTOR CHOOSES TO USE DIFFERENT METHODS OF TRAFFIC CONTROL DURING THE CONSTRUCTION THAN THOSE OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT ALTERNATE PLANS TO TRAFFIC SECTION OF NEWTON COUNTY FOR APPROVAL TEN (10) WORKING DAYS PRIOR TO IMPLEMENTATION. THOSE PLANS SHALL BE DRAWN TO SCALE AND SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.
6. THE TRAFFIC CONTROL MEASURES PROVIDED ON THE TRAFFIC CONTROL PLANS REPRESENT MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL MODIFY THE TRAFFIC CONTROL PLANS AS DESCRIBED IN THE NOTES ABOVE AND/OR SHALL PROVIDE ADDITIONAL MEASURES AS REQUIRED BY THE FIELD CONDITIONS OR AS DIRECTED BY THE THE OWNER'S REPRESENTATIVE AND THE SABINE RIVER AUTHORITY. ALL WORK ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCIDENTAL TO ITEM 01555-TRAFFIC CONTROL AND REGULATION/ FLAGGERS.
7. THE CONTRACTOR SHALL OBTAIN NECESSARY APPROVALS FROM TXDOT FOR ANY TRAFFIC CONTROL AND OTHER WORK PERFORMED WITHIN THE TXDOT RIGHT-OF-WAY.

No.		DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11.01.2022

KHA PROJECT 068925100
DATE 11.01.2022
SCALE AS SHOWN
DESIGNED BY ECL
DRAWN BY ECL
CHECKED BY KNM

GENERAL NOTES

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
G0.01

Plotted By: Luong, Emily Sheet Set: Kha Layout: GENERAL NOTES November 01, 2022 04:10:36pm K:\HOU_LALP\068925100_SRA Sam Collins Park\CAD\Sheets\COVER.dwg
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SPECIAL CONDITIONS

1. PRIOR TO THE INITIATION OF ANY WORK AUTHORIZED BY THIS PERMIT, FLOATING TURBIDITY SCREENS WITH WEIGHTED SKIRTS THAT EXTEND TO WITHIN 1 FT. OF THE BOTTOM SHALL BE PLACED AROUND THE PROJECT AS APPROPRIATE. THE SCREENS THAT ARE PLACED AROUND THE PROJECT SHALL BE MAINTAINED AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. THE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT TURBIDITY CONTROL DEVICES ARE INSPECTED DAILY AND MAINTAINED IN GOOD WORKING ORDER.

   THE FOLLOWING MEASURES SHALL BE TAKEN BY THE PERMITTEE IF TURBIDITY LEVELS MAY VIOLATE TEXAS WATER QUALITY STANDARDS:

   a. IMMEDIATELY CEASE ALL WORK CONTRIBUTING TO THE WATER QUALITY VIOLATION.

   b. STABILIZE ALL SOILS CONTRIBUTING TO THE VIOLATION, MODIFY THE WORK PROCEDURES THAT WERE RESPONSIBLE FOR THE VIOLATION, AND INSTALL MORE TURBIDITY CONTAINMENT DEVICES AND REPAIR ANY NON-FUNCTIONING TURBIDITY CONTAINMENT DEVICES.

2. THERE SHALL BE NO STORAGE OR STOCKPILING OF TOOLS, EQUIPMENT, EXCAVATED / DREDGED MATERIAL, ETC. WITHIN WATERS OF THE U.S. ALL CLEARED / EXCAVATED MATERIAL AND ANY OTHER TYPE OF DEBRIS SHALL BE REMOVED FROM WATERS OF THE U.S. WITHIN 14 DAYS OF COMPLETION OF THE WORK AUTHORIZED IN THIS PERMIT.

3. BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION CONTROL SHALL BE IMPLEMENTED AND MAINTAINED AT ALL TIMES AROUND SEDIMENT DISPOSAL AREAS TO PREVENT SILTATION AND TURBID DISCHARGES THAT MAY VIOLATE TEXAS WATER QUALITY STANDARDS. METHODS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE USE OF STAKED HAY BALES, STAKED FILTER CLOTH, SODDING, SEEDING, AND MULCHING. THE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION CONTROL DEVICES / PROCEDURES ARE INSPECTED AND MAINTAINED DAILY DURING ACTIVITIES AUTHORIZED BY THIS PERMIT UNTIL ALL AREAS THAT WERE DISTURBED DURING T HE PROJECT ARE SUFFICIENTLY STABILIZED TO PREVENT EROSION, SILTATION, AND TURBID DISCHARGES.

4. THE PERMITTEE SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO REDUCE THE RISK OF TRANSFERRING INVASIVE PLANT AND ANIMAL SPECIES TO OR FROM PROJECT STIES. INFORMATION CONCERNING STATE SPECIFIC LISTS AND THREATS CAN BE FOUND AT: HTTP://WWW.INVASIVESPECIESINFO.GOV/US/TEXAS. BEST MANAGMENET PRACTICES CAN BE FOUND AT HTTPS://WWW.INVASIVESPECIESINFO.GOV/SUBJECT/PREVENTION. KNOWN ZEBRA MUSSEL WATERS CAN BE FOUND AT HTTPS://NAS.ER.USGS.GOV/QUERIES/FACTSHEET.ASPX?SPECIESID=5.

5. THE PERMITTEE SHALL IMPLEMENT AND ABIDE BY THE MITIGATION PLAN TITLED "ATTACHMENT B AND FUNCTIONAL ASSESSMENT" IN THE MATERIALS RECEIVED FEBRUARY 10, 2022, PREPARED BY HYDRES ENVIRONMENTAL, EXCEPT WHERE CHANGES ARE NECESSARY TO COMPLY WITH SPECIAL CONDITIONS LISTED BELOW. THE PERMITTEE SHALL IMPLEMENT THE MITIGATION PLAN CONCURRENTLY WITH THE CONSTRUCTION OF THE PROJECT. COMPLETION OF ALL ELEMENTS OF THIS MITIGATION PLAN IS A REQUIREMENT OF THIS PERMIT.

6. THE PERMITTEE UNDERSTANDS AND AGREES THAT, IF FUTURE OPERATIONS BY THE UNITED STATES REQUIRE THE REMOVAL, RELOCATION, OR OTHER ALTERATION, OF THE STRUCTURE OR WORK HEREIN AUTHORIZED, OR IF, IN THE OPINION OF THE SECRETARY OF THE ARM OR HIS AUTHORIZED REPRESENTATIVE, SAID STRUCTURE OR WORK SHALL CAUSE UNREASONABLE OBSTRUCTION TO THE FREE NAVIGATION OF THE NAVIGABLE WATERS. THE PERMITTEE WILL BE REQUIRED, UPON DUE NOTICE FROM THE CORPS OF ENGINEERS, TO REMOVE, RELOCATE, OR ALTER THE STRUCTURAL WORK OR OBSTRUCTIONS CAUSED THEREBY, WITHOUT EXPENSE TO THE UNITED STATES. NO CLAIM SHALL BE MADE AGAINST THE UNITED STATES ON ACCOUNT OF ANY SUCH REMOVAL OR ALTERATION.

7. THE PERMITTEE SHALL TAKE THE FOLLOWING MEASURE TO ENSURE PROTECTION OF HISTORIC PROPERTIES,. THE PERMITTEE SHALL ENSURE THAT ALL RESULTS FROM THE PHASE 1 CULTURAL RESOURCE SURVEY ARE PROVIDED AS A REPORT TO USACE AND THE TEXAS HISTORICAL COMMISSION FOR REVIEW AND APPROVAL. IF BURIED CULTURAL REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, THE REMAINS SHALL BE AVOIDED AND THE USACE CONTACTED TO ASSESS THE SITE FOR ELIGIBILITY TO THE NATIONAL REGISTER OF HISTORIC PLACES AND TO COMPLY WITH 33 CFR 325, APPENDIX C AND 36 CFR 800.

8. CONTRACTOR IS MADE AWARE OF THE FOLLOWING CONDITIONS REQUIRED BY THE ENVIRONMENTAL CLEARANCES ISSUED BY THE REGULATORY AGENCIES AND SHALL BE REQUIRED TO FOLLOW AS INDICATED.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) WATER QUALITY CERTIFICATION REQUIREMENTS

1. THE WATER QUALITY OF WETLANDS SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE TEXAS SURFACE WATER QUALITY STANDARDS INCLUDING THE GENERAL, NARRATIVE, AND NUMERICAL CRITERIA.

2. THE APPLICANT SHALL NOT ENGAGE IN ANY ACTIVITY WHICH WILL CAUSE SURFACE WATERS TO BE TOXIC TO MAN, AQUATIC LIFE, OR TERRESTRIAL LIFE.

3. PERMITTEE SHALL EMPLOY MEASURES TO CONTROL SPILLS OF FUELS, LUBRICANTS, OR ANY OTHER MATERIALS TO PREVENT THEM FROM ENTERING A WATERCOURSE. ALL SPILLS SHALL BE PROMPTLY REPORTED TO THE TCEQ BY CALLING THE STATE OF TEXAS ENVIRONMENTAL HOTLINE AT 1-800-832-8224.

4. SANITARY WASTES SHALL BE RETAINED FOR DISPOSAL IN SOME LEGAL MANNER. MARINAS AND SIMILAR OPERATIONS WHICH HARBOR BOATS EQUIPPED WITH MARINE SANITATION DEVICES SHALL PROVIDE STATE/FEDERAL PERMITTED TREATMENT FACILITIES OR PUMP OUT FACILITIES FOR ULTIMATE TRANSFER TO A PERMITTED TREATMENT FACILITY. ADDITIONALLY, MARINAS SHALL DISPLAY SIGNS IN APPROPRIATE LOCATIONS ADVISING BOAT OWNERS THAT THE DISCHARGE OF SEWAGE FROM A MARINE SANITATION DEVICE TO WATERS IN THE STATE IS A VIOLATION OF STATE AND FEDERAL LAW.

5. MATERIALS RESULTING FROM THE DESTRUCTION OF EXISTING STRUCTURES SHALL BE REMOVED FROM THE WATER OR AREAS ADJACENT TO THE WATER AND DISPOSED OF IN SOME LEGAL MANNER.

6. A DISCHARGE SHALL NOT CAUSE SUBSTANTIAL AND PERSISTENT CHANGES FROM AMBIENT CONDITIONS OF TURBIDITY OR COLOR. THE USE OF SILT SCREENS OR OTHER APPROPRIATE METHODS IS ENCOURAGED TO CONFINE SUSPENDED PARTICULATES.

7. THE PLACEMENT OF ANY MATERIAL IN A WATERCOURSE OR WETLANDS SHALL BE AVOIDED AND PLACED THERE ONLY WITH THE APPROVAL OF THE CORPS WHEN NO OTHER REASONABLE ALTERNATIVE IS AVAILABLE. IF WORK WITHIN A WETLAND IS UNAVOIDABLE, GOUGING OR RUTTING OF THE SUBSTRATE IS PROHIBITED. HEAVY EQUIPMENT SHALL BE PLACED ON MATS TO PROTECT THE SUBSTRATE FROM GOUGING AND RUTTING IF NECESSARY.

8. DREDGED MATERIAL PLACEMENT: DREDGED SEDIMENTS SHALL BE PLACED IN SUCH A MANNER AS TO PREVENT ANY SEDIMENT RUNOFF ONTO ANY ADJACENT PROPERTY NOT OWNED BY THE APPLICANT. LIQUID RUNOFF FROM THE DISPOSAL AREA SHALL BE RETAINED ON-SITE OR SHALL BE FILTERED AND RETURNED TO THE WATERCOURSE FROM WHICH THE DREDGED MATERIALS WERE REMOVED. EXCEPT FOR MATERIAL PLACEMENT AUTHORIZED BY THIS PERMIT, SEDIMENTS FROM THE PROJECT SHALL BE PLACED IN SUCH A MANNER AS TO PREVENT ANY SEDIMENT RUNOFF INTO WATERS IN THE STATE, INCLUDING WETLANDS.

9. IF CONTAMINATED SPOIL THAT WAS NOT ANTICIPATED OR PROVIDED FOR IN THE PERMIT APPLICATION IS ENCOUNTERED DURING DREDGING, DREDGING OPERATIONS SHALL BE IMMEDIATELY TERMINATED AND THE TCEQ SHALL BE CONTACTED BY CALLING THE STATE OF TEXAS ENVIRONMENTAL HOTLINE AT 1-800-832-8224. DREDGING ACTIVITIES SHALL NOT BE RESUMED UNTIL AUTHORIZED BY THE COMMISSION.

10. CONTAMINATED WATER, SOIL, OR ANY OTHER MATERIAL SHALL NOT BE ALLOWED TO ENTER A WATERCOURSE. NONCONTAMINATED STORM WATER FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.

11. STORM WATER RUNOFF FROM CONSTRUCTION ACTIVITIES THAT RESULT IN A DISTURBANCE OF ONE OR MORE ACRES, OR ARE A PART OF A COMMON PLAN OF DEVELOPMENT THAT WILL RESULT IN THE DISTURBANCE OF ONE OR MORE ACRES, MUST BE CONTROLLED AND AUTHORIZED UNDER TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT TXR150000. A COPY OF THE GENERAL PERMIT, APPLICATION (NOTICE OF INTENT), AND ADDITIONAL INFORMATION IS AVAILABLE AT: HTTP://WWW.TCEQ.TEXAS.GOV/PERMITTING/STORMWATER/WQ_CONSTRUCTION.HTML OR BY CONTACTING THE TCEQ STORM WATER & PRETREATMENT TEAM AT (512) 239-4671.

12. UPON COMPLETION OF EARTHWORK OPERATIONS, ALL TEMPORARY FILLS SHALL BE REMOVED FROM THE WATERCOURSE/WETLAND, AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, RIPRAPPED, OR GIVEN SOME OTHER TYPE OF PROTECTION TO MINIMIZE SUBSEQUENT SOIL EROSION. ANY FILL MATERIAL SHALL BE CLEAN AND OF SUCH COMPOSITION THAT IT WILL NOT ADVERSELY AFFECT THE BIOLOGICAL, CHEMICAL, OR PHYSICAL PROPERTIES OF THE RECEIVING WATERS.

13. DISTURBANCE TO VEGETATION WILL BE LIMITED TO ONLY WHAT IS ABSOLUTELY NECESSARY. AFTER CONSTRUCTION, ALL DISTURBED AREAS WILL BE REVEGETATED TO APPROXIMATE THE PRE-DISTURBANCE NATIVE PLANT ASSEMBLAGE.

14. WHERE THE CONTROL OF WEEDS, INSECTS, AND OTHER UNDESIRABLE SPECIES IS DEEMED NECESSARY BY THE PERMITTEE, CONTROL METHODS WHICH ARE NONTOXIC TO AQUATIC LIFE OR HUMAN HEALTH SHALL BE EMPLOYED WHEN THE ACTIVITY IS LOCATED IN OR IN CLOSE PROXIMITY TO WATER, INCLUDING WETLANDS.

15. CONCENTRATIONS OF TASTE AND ODOR PRODUCING SUBSTANCES SHALL NOT INTERFERE WITH THE PRODUCTION OF POTABLE WATER BY REASONABLE WATER TREATMENT METHODS, IMPART UNPALATABLE FLAVOR TO FOOD FISH INCLUDING SHELLFISH, RESULT IN OFFENSIVE ODORS ARISING FROM THE WATER, OR OTHERWISE INTERFERE WITH REASONABLE USE OF THE WATER IN THE STATE.

16. SURFACE WATER SHALL BE ESSENTIALLY FREE OF FLOATING DEBRIS AND SUSPENDED SOLIDS THAT ARE CONDUCIVE TO PRODUCING ADVERSE RESPONSES IN AQUATIC ORGANISMS, PUTRESCIBLE SLUDGE DEPOSITS, OR SEDIMENT LAYERS WHICH ADVERSELY AFFECT BENTHIC BIOTA OR ANY LAWFUL USES.

17. SURFACE WATERS SHALL BE ESSENTIALLY FREE OF SETTLEABLE SOLIDS CONDUCIVE TO CHANGES IN FLOW CHARACTERISTICS OF STREAM CHANNELS OR THE UNTIMELY FILLING OF RESERVOIRS, LAKES, AND BAYS.

18. THE WORK OF THE APPLICANT SHALL BE CONDUCTED SUCH THAT SURFACE WATERS ARE MAINTAINED IN AN AESTHETICALLY ATTRACTIVE CONDITION AND FOAMING OR FROTHING OF A PERSISTENT NATURE IS AVOIDED. SURFACE WATERS SHALL BE MAINTAINED SO THAT OIL, GREASE, OR RELATED RESIDUE WILL NOT PRODUCE A VISIBLE FILM OF OIL OR GLOBULES OF GREASE ON THE SURFACE OR COAT THE BANKS OR BOTTOMS OF THE WATERCOURSE.

19. THIS CERTIFICATION SHALL NOT BE DEEMED AS FULFILLING THE APPLICANT'S/PERMITTEE'S RESPONSIBILITY TO OBTAIN ADDITIONAL AUTHORIZATION/APPROVAL FROM OTHER LOCAL, STATE, OR FEDERAL REGULATORY AGENCIES HAVING SPECIAL/SPECIFIC AUTHORITY TO PRESERVE AND/OR PROTECT RESOURCES WITHIN THE AREA WHERE THE WORK WILL OCCUR.

TEXAS PARKS AND WILDLIFE DEPARTMENT (TPWD) REQUIREMENTS:

- MIGRATORY BIRD TREATY ACT (HTTPS://WWW.FWS.GOV/ALASKA/ALASKA/LAW/MIGRATORY-BIRD-TREATY-ACT-1918), EXCLUDE VEGETATION CLEARING ACTIVITIES DURING THE GENERAL BIRD NESTING SEASON, MARCH 15 THROUGH SEPTEMBER 15, TO AVOID ADVERSE IMPACTS TO BREEDING BIRDS. IF CLEARING VEGETATION DURING THE MIGRATORY BIRD NESTING SEASON IS UNAVOIDABLE, SURVEY THE AREA PROPOSED FOR DISTURBANCE TO ENSURE THAT NO NESTS WITH EGGS OR YOUNG WILL BE DISTURBED BY CONSTRUCTION. IF ACTIVE NESTS ARE OBSERVED, AVOID ACTIVITIES WITHIN A 150-FOOT NON-DISTURBANCE BUFFER UNTIL THE EGGS HAVE HATCHES AND THE YOUNG HAVE FLEDGED.

- PROJECT LIGHTED STRUCTURES SHOULD CONTAIN THE MINIMUM AMOUNT OF PERMANENT NIGHT-TIME LIGHTING NEEDED FOR SAFETY AND SECURITY, FOCUS LIGHTS DOWNWARD, WITH FULL CUTOFF LUMINARIES TO AVOID EMITTING LIGHT ABOVE THE HORIZONTAL, AND INSTALL DARK-SKY LIGHTING, DOWN-SHIELDED, AND MINIMIZE BLUE LIGHT EMISSIONS PER CONTRACT PLANS AND SPECIFICATIONS, TO ENSURE COMPLIANCE WIT HTHE BALD AND GOLDEN EAGLE PROTECTION ACT (BGEPA), PROJECT ACTIVITIES SHOULD BE PERFORMED IN ACCORDANCE WITH THE USFWS NATIONAL BALD EAGLE MANAGEMENT GUIDELINES.

- TO MINIMIZE POTENTIAL IMPACTS TO AVIAN SPECIES, PLEASE REVIEW THE MIGRATORY BIRD TREATY ACT SECTION ABOVE FOR RECOMMENDATIONS AS THEY ARE ALSO APPLICABLE FOR COMPLIANCE WITH PARKS AND WILDLIFE CODE (PWC) SECTION 64,002 AND SECTION 64.003.

- TO ENSURE COMPLIANCE WITH PWC CHAPTER 68, FOR ENCOUNTERS WITH RARE SPECIES THAT WILL NOT READILY LEAVE THE PREMISES A PERMITTED INDIVIDUAL MUST TRANSLOCATE THE ANIMAL. TERRESTRIAL STATE-LISTED SPECIES MAY ONLY BE HANDLED BY PERSONS AUTHORIZED THROUGH THE TPWD WILDLIFE PERMITS OFFICE FOR RELOCATION. CONTRACTOR TO CONTACT OWNER TO REQUEST ASSISTANCE UPON DISCOVERY.

- GENERAL CONSERVATION BMPS RECOMMENDED TO AVOID OR MINIMIZE POTENTIAL IMPACTS TO WILDLIFE RESOURCES POTENTIALLY OCCURRING AT THE CONSTRUCTION SITE:

  - THERE IS A POTENTIAL FOR STATE-LISTED THREATENED SPECIES OR SPECIES OF GREATEST CONSERVATION NEED (SGCN) TO OCCUR IN THE PROJECT AREA. AVOID IMPACTS TO ALL WILDLIFE THAT ARE ENCOUNTERED.

- SMALL VERTEBRATES INCLUDING SNAKES, LIZARDS, TOADS, AND MICE FALL INTO TRENCHES AND BECOME TRAPPED. WHERE TRENCHING IS INVOLVED, MINIMIZE THE LENGTH OF TRENCHES LEFT OPEN AT ANY GIVEN TIME DURING CONSTRUCTION. TRENCHES LEFT OPEN FOR MORE THAN TWO DAYLIGHT HOURS SHOULD BE INSPECTED FOR THE PRESENCE OF TRAPPED WILDLIFE PRIOR TO BACKFILLING. IF TRENCHES CANNOT BE BACKFILLED THE DAY OF INITIAL TRENCHING, THEN ESCAPE RAMPS, IN THE FORM OF SHORT LATERAL TRENCHES SLOPING TO THE SURFACE AT AN ANGLE OF LESS THAN 45 DEGREES, SHOULD BE INSTALLED.

1. **UNITED STATES FISH AND WILDLIFE SERVICE REQUIREMENTS**

   - REDUCE SEDIMENTATION WITHIN RIVERS, STREAMS, AND TRIBUTARIES CROSSED BY A PROJECT, AND IMPLEMENT THE BEST MANAGEMENT PRACTICES. INSTALL SEDIMENT CONTROL FEATURES AND MAINTAIN THROUGHOUT THE PROJECT AS SHOWN ON THE PLANS. AVOID DISTURBANCE OF CONSTRUCTION ACTIVITIES AND PROJECT OPERATIONS TO BREEDING BIRD NESTING SITES. CONTACT OWNER IF NESTING AREAS ARE FOUND DURING PROJECT CONSTRUCTION.

TEXAS PARKS & WILDLIFE PARK AMENITY DEVELOPMENT AND SHORELINE PROTECTION

ANY CLEARING TO BE SCHEDULED OUTSIDE OF THE GENERAL BIRD NESTING SEASON OF MARCH 15TH TO SEPTEMBER 15TH. IF CLEARING MUST OCCUR DURING NESTING SEASON, TPWD RECOMMENDS SURVEYING THE AREA PROPOSED FOR DISTURBANCE.

PROJECT'S LIGHTED STRUCTURES TO BE DESIGNED TO CONTAIN THE MINIMUM AMOUNT OF PERMANENT NIGHT-TIME LIGHTING NEEDED FOR SAFETY AND SECURITY.

MINIMIZE PROJECT'S CONTRIBUTION TO SKYGLOW BY FOCUSING LIGHT DOWNWARD, WITH FULL CUTOFF LUMINARIES TO AVOID EMITTING LIGHT ABOVE THE HORIZONTAL, AND TO USE DARK-SKY FRIENDLY LIGHTING THAT IS ILLUMINATED ONLY WHEN NEEDED, DOWN-SHIELDED, AS BRIGHT AS NEEDED, AND MINIMIZES BLUE LIGHT EMISSIONS.

PROJECT ACTIVITIES SHOULD BE PERFORMED IN ACCORDANCE WITH THE USFWS NATIONAL BALD EAGLE MANAGEMENT GUIDELINES.

TO MINIMIZE POTENTIAL IMPACTS TO AVIAN SPECIES, REVIEW THE MIGRATORY BIRD TREATY ACT.

EMPLOYEES AND CONTRACTORS SHOULD BE ADVISED TO AVOID HARMING THIS SPECIES, IF ENCOUNTERED.

AVOID WORK DURING THE PEAK BREEDING AND NESTING SEASON OF THIS SPECIES (MAY 1 THROUGH JUNE 30).

AVOID DISTURBANCE TO THE NESTING FEMALES AS WELL AS ANY DEPOSITED EGGS, IF ENCOUNTERED. WORK IN AREAS OF APPROPRIATE HABITAT FOR THIS SPECIES OCCUR IN LATE SUMMER AND EARLY FALL (JULY THROUGH OCTOBER).

CONSIDER ERECTING A TEMPORARY EXCLUSION BARRIER AROUND SHORELINES WHERE RIPRAP OR SIMILAR MATERIALS WILL BE PLACED.

BMP TO BE USED TO MINIMIZE IMPACTS ON MUSSELS AND FISH SPECIES WHICH MAY SERVE AS THE MUSSELS' LARVAL HOST. BMP SUCH AS SILT FENCES AND SOIL STABILIZATION MEASURES SHOULD BE IMPLEMENTED ALONG THE CREEK BANKS TO AVOID INCREASING THE TURBIDITY OF THE WATER.

FOR ENCOUNTERS WITH RARE SPECIES THAT WILL NOT READILY LEAVE THE PREMISES, TPWD RECOMMENDS A PERMITTED INDIVIDUAL TRANSLOCATE THE ANIMAL.

TPWD RECOMMENDS RELOCATING POTENTIALLY IMPACTED *NATIVE AQUATIC RESOURCES (FISH AND MUSSELS) IN CONJUNCTION WITH A PERMIT TO INTRODUCE FISH, SHELLFISH, OR AQUATIC PLANTS INTO PUBLIC WATERS* AND AN ARRP.

FOLLOWING AN AQUATIC INVASIVE SPECIES (AIS) TRANSFER PREVENTION PLAN IS RECOMMENDED.

SRA AND ITS CONTRACTORS TO REVIEW AND ADHERE TO THE AIS BMPS IDENTIFIED IN THE *TPWD GUIDELINES FOR AQUATIC RESOURCE RELOCATION PLANS AND THE TPWD CLEAN/DRAIN/DRY PROCEDURES AND ZEBRA MUSSEL DECONTAMINATION PROCEDURES FOR CONTRACTORS WORKING IN INLAND PUBLIC WATERS.*

BIOTECHNICAL STABILIZATION METHODS USING LIVE NATIVE VEGETATION OR A COMBINATION OF VEGETATIVE AND STRUCTURAL MATERIALS SUCH AS RETICULATED CONCRETE MATS IS RECOMMENDED BY TPWD.IF RIPRAP MUST BE USED, TPWD RECOMMENDS THE RIPRAP BE BACK-FILLED WITH TOPSOIL AND PLANTING WITH NATIVE VEGETATION.

POLLINATOR CONSERVATION AND MANAGEMENT INTO THE RE-VEGETATION AND MAINTENANCE PLAN FOR THE PARK TO BE INCORPORATED.

TPWD RECOMMENDS RE-VEGTATION EFFORTS INCLUDE PLANTING OR SEEDING NATIVE MILKWEED (*ASCLEPIAS SPP.*) AND NECTAR PLANTS.

CONTRACTORS SHOULD BE ADVISED TO AVOID IMPACTS TO ALL WILDLIFE THAT ARE ENCOUNTERED.

THE LENGTH OF TRENCHES LEFT OPEN SHOULD BE MINIMIZED.

TRENCHES LEFT OPEN FOR MORE THAN TWO DAYLIGHT HOURS SHOULD BE INSPECTED FOR THE PRESENCE OF TRAPPED WILDLIFE.

ESCAPE RAMPS, IN THE FORM OF SHORT LATERAL TRENCHES OR WOODEN PLANKS SLOPING TO THE SURFACE AT AN ANGLE OF LESS THAN 45 DEGREES, SHOULD BE INSTALLED AT LEAST EVERY 90 METERS.

TPWD RECOMMENDS EROSION AND SEED/MULCH STABILIZATION MATERIALS THAT AVOID ENTANGLEMENT HAZARDS TO SNAKES AND OTHER WILDLIFE SPECIES.

TPWD RECOMMENDS NO-TILL DRILLING, HYDROMULCHING, AND/OR HYDROSEEDING RATHER THAN EROSION CONTROL BLANKETS OR MATS.

HYDROMULCH CONTAINING PLASTIC INGREDIENTS AND PLASTIC MESH MATTING SHOULD BE AVOIDED.

REPORTING ENCOUNTERS OF SGCN, THREATENED, AND ENDANGERED SPECIES TO THE TEXAS NATURAL DIVERSITY DATABASE (TXNDD) IS ENCOURAGED.

No.		DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MAYER 2988 STATE OF TEXAS
11.01.2022

KHA PROJECT 068925100
DATE 11.01.2022
SCALE AS SHOWN
DESIGNED BY ECL
DRAWN BY ECL
CHECKED BY KNM

GENERAL NOTES

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
G0.02

Plotted By:Luong, Emily Sheet Set:Kha Layout:GENERAL NOTES (2) November 01, 2022 04:10:35pm K:\HOU_LA\PU068925100_SRA Sam Collins Park\CADD\Sheets\COVER.dwg
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MATERIAL LEGEND:

PAVING

P-1 CONCRETE PAVING (STANDARD)

COLOR:	NATURAL GRAY
FINISH:	MEDIUM BROOM FINISH 3000 PSI
CONTROL JOINTS:	SAWCUT (1/4 DEPTH OF CONCRETE) @ REGULAR INTERVALS (TYPICAL JOINT SPACING TO BE EQUAL TO WIDTH OF WALK)
EXPANSION JOINTS:	SEE PLANS FOR LOCATION, 30' MAX.
JOINT SEALANT:	COLOR TO MATCH CONCRETE
APPROVAL:	***SEE SPECIFICATIONS***

P-2 CONCRETE PAVING (PAVILION SLAB PARKING LOT CURB AND GUTTER)

COLOR:	NATURAL GRAY
FINISH:	LIGHT BROOM FINISH 4000 PSI
CONTROL JOINTS:	SAWCUT (1/4 DEPTH OF CONCRETE) @ REGULAR INTERVALS (SEE PLANS FOR LOCATION)
EXPANSION JOINTS:	SEE PLANS FOR LOCATION, 30' MAX.
JOINT SEALANT:	COLOR TO MATCH CONCRETE
APPROVAL:	***SEE SPECIFICATIONS***

P-3 CONCRETE PAVING (AT BOAT RAMP)

COLOR:	NATURAL GRAY
FINISH:	ROUGH RAKED TEXTURE - 4" GROOVE SPACING, 1.5" DEEP
CONTROL JOINTS:	2" DEEP SAW CUT BELOW DEEPEST GROOVE
EXPANSION JOINTS:	SEE PLANS FOR LOCATION, 30' MAX.
JOINT SEALANT:	COLOR TO MATCH CONCRETE
APPROVAL:	***SEE SPECIFICATIONS***

P-4 ASPHALT PAVING (AT PARKING LOT)

TYPE:	TYPE D, DENSE GRADED HOT MIX REF. PLAN AND DETAILS FOR DEPTH
APPROVAL:	***SEE SPECIFICATIONS***

P-5 CRUSHED AGGREGATE (CONNECTING PARKING LOT TRAIL TO EXISTING ASPHALT ROAD)

TYPE:	CLASS 1 AGGREGATE ROAD SURFACE REF. DETAILS
APPROVAL:	***SEE SPECIFICATIONS***

P-6 ADA PAVER (AT ADA RAMP)

TYPE:	CONCRETE PAVER
MANUFACTURER:	KEYSTONE
STYLE:	TRUNCATED DOME PAVERS
COLOR:	TO BE SELECTED BY CITY
SIZE:	4" X 8"
PATERN:	GRID
INSTALL:	4" CONCRETE SUBBASE, REF. DETAILS
SUPPLIER:	KEYSTONE
CONTACT:	DAVE HASNESS (713.467.6436)
APPROVAL:	***CUT SHEET, SAMPLE, MOCKUP***

METALS

R-1 METAL LANDSCAPE EDGING

TYPE:	STEEL
FINISH:	BLACK SEMI GLOSS
SIZE:	3/8" - 6" DEEP AT AGGREGATE
INSTALL:	REF. PLANS AND DETAILS
APPROVAL:	***PROVIDE SAMPLES, PRODUCT DATA AND MOCK UPS IN ACCORDANCE WITH SPECIFICATIONS***

MATERIAL LEGEND CONTINUED:

SITE AMENITIES

A-1 PICNIC TABLE

TYPE:	EXTRA HEAVY-DUTY 8' ADA ACCESSIBLE TABLE, DOUBLE-END ACCESS
MODEL:	238H-V8 ULTRASITE OR APPROVED EQUAL
FINISH:	THERMOPLASTIC TOP WITH POWDER COATED FRAME
PATTERN:	DIAMOND
INSTALL:	PER MANUFACTURER'S SPECIFICATIONS SURFACE MOUNT
SUPPLIER:	PLAYWELL GROUP
CONTACT:	KERRY WALSH PH: 832-655-5400 E: KERRY@PLAYWELLGROUP.COM
APPROVAL:	***CUT SHEET AND COLORS***
NOTE:	**INSTALL TO MEET OR EXCEED ADA AND TAS REQUIREMENTS**

A-2 VEHICULAR MAINTENANCE GATE

TYPE:	DURAGATE 16' SQUARE TUBULAR STEEL GATE OR APPROVED EQUAL
MODEL:	DGT-8S SUPER DUTY STEEL BARRIER GATE
FINISH:	HOT DIPPED GALVANIZED STEEL
INSTALL:	PER MANUFACTURER'S SPECIFICATIONS
SUPPLIER:	GATEDEPOT
NOTES:	CUTTING WELDING OR DRILLING AND BOLTING REQUIRED
APPROVAL:	***CUT SHEET***

A-3 BOLLARDS

TYPE:	DUMOR
MODEL:	BOLLARD 400 OR APPROVED EQUAL
SIZE:	36"
FINISH:	STEEL WITH POWDER COAT FINISH
INSTALL:	PER MANUFACTURER'S SPECIFICATIONS
SUPPLIER:	PAUL E. ALLEN
CONTACT:	ERIC D. HILLER
APPROVAL:	***CUT SHEET AND COLORS***
NOTE:	**FIELD VERIFY LOCATION WITH OWNER'S REPRESENTATIVE**

A-4 TRASH RECEPTACLES

TYPE:	IN-GROUND MOUNTED TRASH RECEPTACLE
MODEL:	CN-R/RN-32 ROUND TRASH RECEPTACLE W/ PLASTIC DOME LID, LINER & CHAIN KIT
FINISH:	THERMOPLASTIC COATED PERFORATED STEEL W/ SRA LOGO
INSTALL:	PER MANUFACTURER'S SPECIFICATIONS SURFACE MOUNT
SUPPLIER:	BJS PARKS AND RECREATION PRODUCTS
CONTACT:	KEVIN HANES PH: 281-356-2110 E: KEVIN@BJSPARK.COM
APPROVAL:	***CUT SHEET AND COLORS***
NOTE:	**INSTALL TO MEET OR EXCEED ADA AND TAS REQUIREMENTS**

A-5 GUARD RAIL

TYPE:	STEEL CONTINUOUS WITH WELDED WIRE MESH INFILL PANELS
SIZE:	42" MIN. HEIGHT FROM FINISHED FLOOR
FINISH:	HOT DIPPED GALVANIZED
INSTALL:	SURFACE MOUNT WITH STAINLESS STEEL HARDWARE
APPROVAL:	***SHOP DRAWINGS***

A-6 HANDRAIL

TYPE	STEEL CONTINUOUS WITH WELDED WIRE MESH INFILL PANELS
SIZE:	36" TYP. TO TOP OF HANDRAIL;
FINISH:	HOT DIPPED GALVANIZED
INSTALL:	TOP OF HANDRAIL TO BE SMOOTH AND CONTINUOUS MEET OR EXCEED ALL ADA REGULATIONS FOR HANDRAILS
APPROVAL:	***SHOP DRAWINGS***

AGGREGATE

AG-1 DECOMPOSED GRANITE

COLOR:	TAN
SIZE:	75% #2 (APPROX. 1/4" SIZE), 25% FINES
INSTALL:	REF. PLANS AND DETAILS- INSTALL IN 2" COMPACTED LIFTS
STABILIZER:	SOILTAC LIQUID STABILIZER, INSTALL PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS
APPROVAL:	***CUT SHEET***

MISCELLANEOUS

M-1 RESTROOM

TYPE:	CXT OR APPROVED EQUAL
MODEL:	TAOS
SIZE:	26' X 20'
INSTALL:	PER MANUFACTURER'S SPECIFICATIONS
SUPPLIER:	LBFORESTER
COLORS:	TO BE APPROVED BY OWNER
NOTES:	CONTACT BOB VEALS PH: 254.404.5147 E: RVEALS@LBFORESTER.COM
APPROVAL:	***SHOP DRAWINGS***

M-2 OVERLOOK PAVILION

TYPE:	HEAVY WOOD TIMBER AND STRUCTURAL STEEL PAVILION WITH STANDING SEAM METAL ROOF
SIZE:	OCTAGON 64' WIDE AND LONG
SUPPLIER:	STRUCTURAL WOOD COMPONENTS OR APPROVED EQUAL
NOTES:	CONTACT RANDY BLANCHARD PH: 281.259.0668 E:RBLANCHARD@STRUCTURALWOODCOMPONENTS.COM ALL WOOD MEMBERS TO RECEIVE 2 COATS WOOD DEFENDER SEMI SOLID LATEX WOOD STAIN APPLIED PER MANUFACTURER'S SPECIFICATIONS
APPROVAL:	***SHOP DRAWINGS FINAL COLORS AND STAINS***

M-3 SHADE STRUCTURE

TYPE:	WOOD TIMBER SHADE STRUCTURE WITH R PANEL METAL ROOFING
SIZE:	RECTANGULAR 12 WIDE AND 20 LONG
SUPPLIER:	STRUCTURAL WOOD COMPONENTS OR APPROVED EQUAL
NOTES:	CONTACT RANDY BLANCHARD PH: 281.259.0668 E:RBLANCHARD@STRUCTURALWOODCOMPONENTS.COM ALL WOOD MEMBERS TO RECEIVE 2 COATS WOOD DEFENDER SEMI SOLID LATEX WOOD STAIN APPLIED PER MANUFACTURER'S SPECIFICATIONS
APPROVAL:	***SHOP DRAWINGS, FINAL COLORS AND STAINS***

SYMBOLS LEGEND:

GENERAL

- CENTER LINE (LIMITS OF WORK)
- LIMITS OF WORK
- MATCHLINE (MATCHLINE L2.XX / MATCHLINE L2.XX)
- GRADE BREAKLINE (BREAKLINE)
- EXPANSION JOINT
- CONTROL JOINT
- POINT OF BEGINNING (P.O.B.)
- DETAIL NUMBER / SHEET NUMBER (X / X.XX)
- DETAIL ENLARGEMENT REFERENCE
- MATERIAL REFERENCE (X-1)
- DETAIL REFERENCE (X / X.XX)
- ELEVATION REFERENCE (X / LX.XX)
- SECTION REFERENCE (X / LX.XX)

ABBREVIATIONS

735.46	PROPOSED SPOT GRADE
ME	EXISTING SPOT GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
EW	END OF WALL
TF	TOP OF FOOTING
COL	TOP OF COLUMN
TS	TOP STEP
BS	BOTTOM STEP
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
TC	TOP OF CURB
BC	BOTTOM OF CURB
TB	TOP OF BAND
TP	TOP OF PAVEMENT
TGr	TOP OF GRAVEL
TG	TOP OF GRADE
FL	FLOWLINE/INVERT ELEVATION
EJ	EXPANSION JOINT
CJ	CONTROL JOINT
CL	CENTER LINE
POB	POINT OF BEGINNING
FG	FINISH GRADE

No.	DATE	BY

Kimley»Horn
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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-7700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

MATERIALS LEGEND

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
G0.03

Plotted By-Luong, Emily Sheet Set:Kha Layout:MATERIALS G0.03 November 01, 2022 04:10:36pm K:\HOU_LA\P\068925100_SRA Sam Collins Park\CAD\Sheets\COVER.dwg
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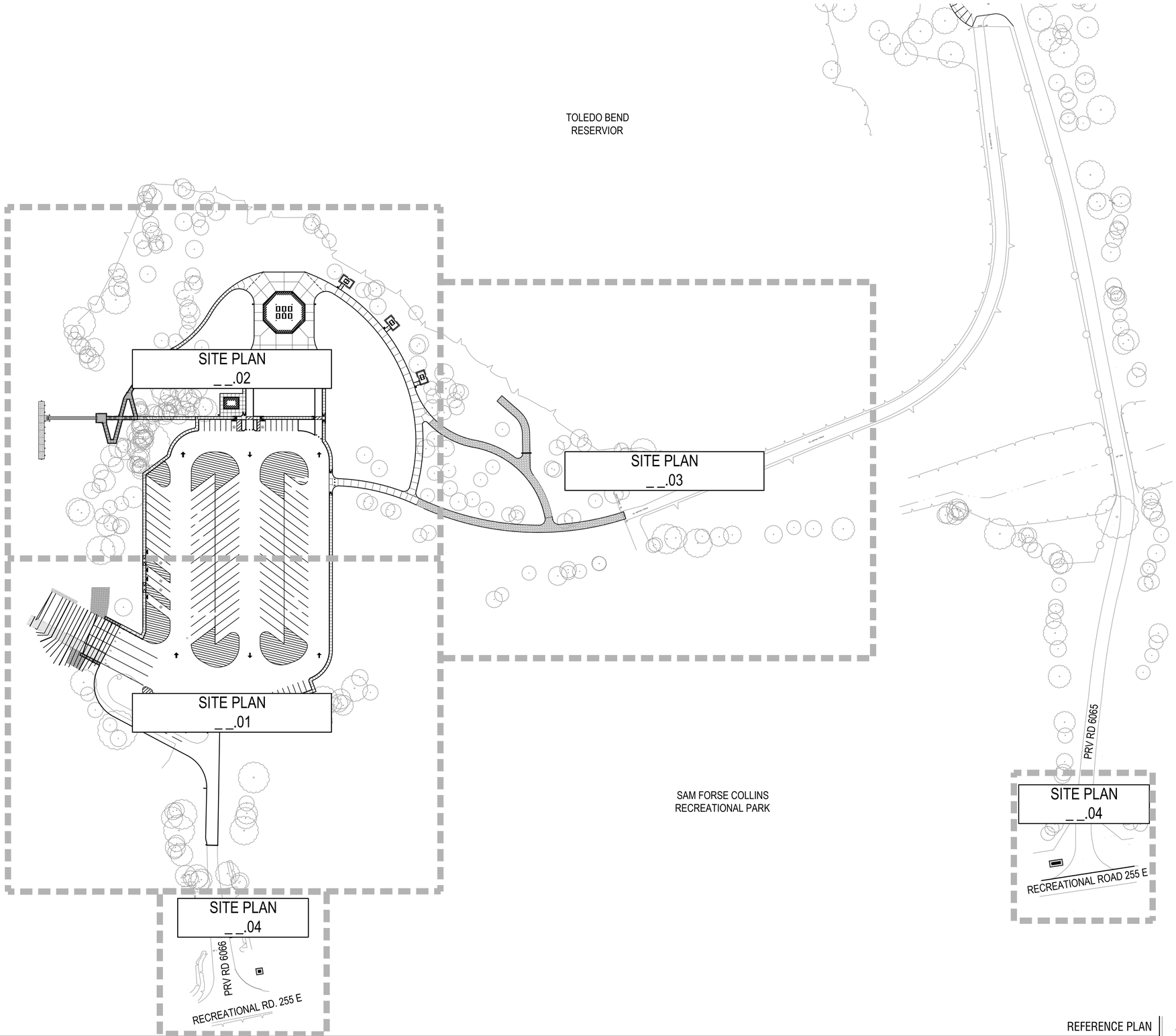

REFERENCE PLAN

Scale: 1:80

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-397-6000
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MALEK
2988
STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

REFERENCE PLAN

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY

BURKEVILLE TEXAS

SHEET NUMBER

G1.00

Plotted By:Luong, Emily Sheet Set:Kha Layout:G1.00 November 01, 2022 04:10:48pm K:\HOU_LA\LP\068925100_SRA Sam Collins Park\CAD\Sheets\C1.00.dwg
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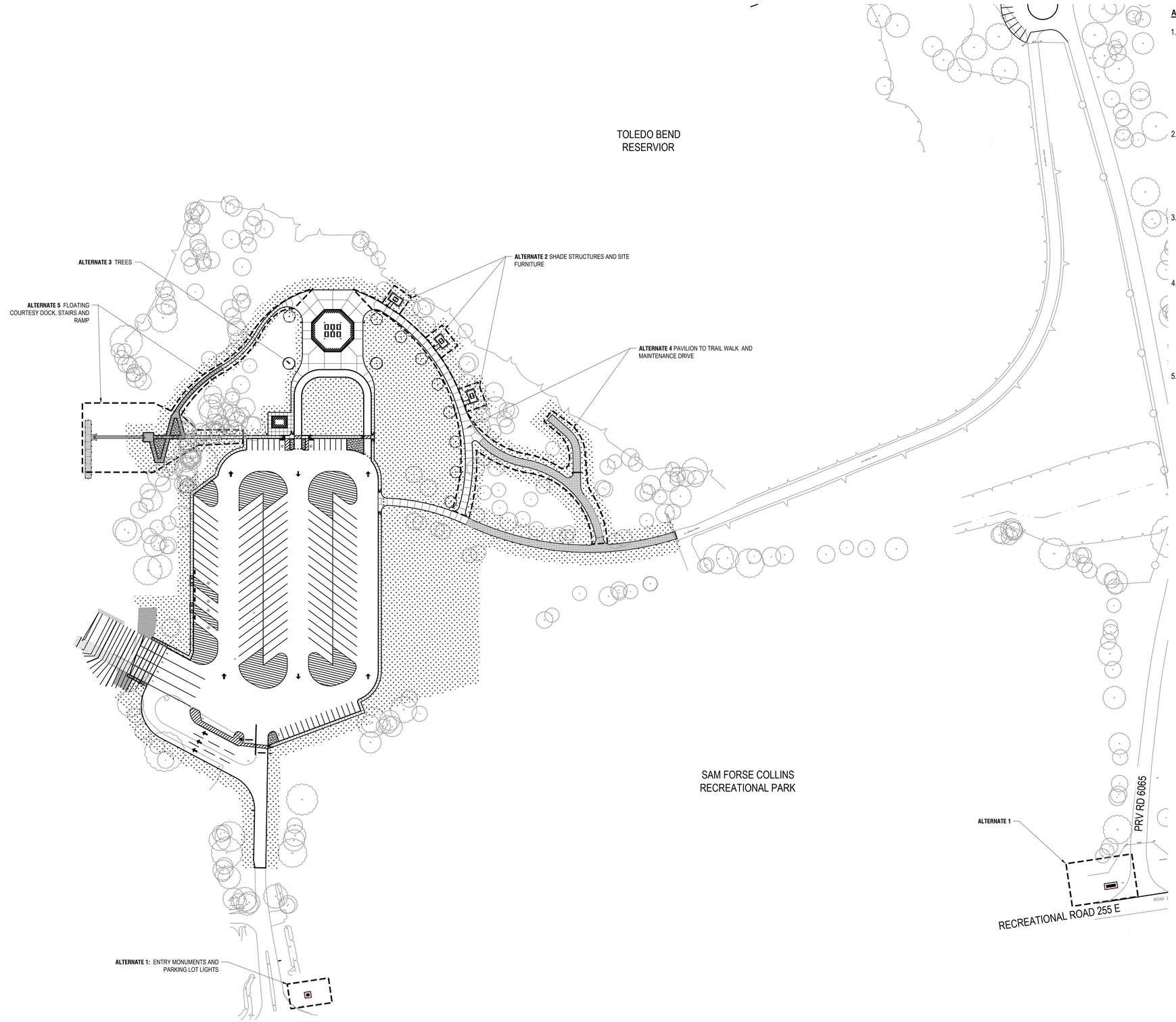

ALTERNATES OVERVIEW

1. ALTERNATE 1 - ENTRY MONUMENTS AND PARKING LOT LIGHTS
CONSISTS OF ENTRY MONUMENT, ENTRY COLUMN, IRRIGATION AND SOD SURROUNDING THE ENTRY MONUMENTS AS WELL AS LIGHTING FOR PARKING LOT AND ENTRY MONUMENTS (INCLUDING: S1, S3, & S4 LIGHTS) AS DEPICTED ON SHEET E1.101 AND L1.04. INCLUDES, BUT NOT LIMITED TO: SIGNS, POLE BASE, BASE PREP, LIGHTING, ELECTRICAL, LANDSCAPE COMPLETE AND IN PLACE.

2. ALTERNATE 2 - SHADE STRUCTURES AND SITE FURNITURE
CONSISTS OF 3 SHADE STRUCTURES, 3 PICNIC TABLES, 3 TRASH RECEPTACLES, SURROUNDING SOD AND PAVING ASSOCIATED WITH THE SHADE STRUCTURES AS DEPICTED ON SHEET L1.02. INCLUDES, BUT NOT LIMITED TO: SHADE STRUCTURES, BASE PREP, SITE FURNISHINGS, STRUCTURAL SHOP DRAWINGS, CONCRETE PAVING, BASE PREP, COMPLETE AND IN PLACE.

3. ALTERNATE 3 - TREES
CONSISTS OF 11 - 100 GALLON SHADE TREES AND ASSOCIATED IRRIGATION AS DEPICTED ON SHEET L2.02. INCLUDES, BUT NOT LIMITED TO: LANDSCAPE, IRRIGATION, ELECTRICAL COMPLETE AND IN PLACE.

4. ALTERNATE 4 - PAVILION TO TRAIL WALK AND MAINTENANCE DRIVE
CONSISTS OF CONCRETE SIDEWALK CONNECTING PAVILION EAST TO CONCRETE TRAIL, AGGREGATE MAINTENANCE DRIVE AND GATE, AND STRIP SOD ADJACENT TO TRAIL AND MAINTENANCE DRIVE AS DEPICTED ON SHEET L1.02 AND L1.03. INCLUDES, BUT NOT LIMITED TO: CONCRETE PAVING, BASE PREP, AGGREGATE, GATE, LANDSCAPE COMPLETE AND IN PLACE.

5. ALTERNATE 5 - FLOATING COURTESY DOCK, STAIRS AND RAMP
CONSISTS OF FLOATING COURTESY DOCK WITH GUIDE PILES, GANGWAY TO COURTESY DOCK, RETAINING WALL AND PLATFORM AT GANGWAY CONNECTION WITH GUARDRAILS, CONCRETE RAMP AND SIDEWALK FROM STAIRS TO PAVILION WITH HANDRAILS, CONCRETE STAIRS AND RETAINING WALLS CONNECTION TO COURTESY DOCK WITH HANDRAILS, AND CONCRETE SWITCHBACK RAMP AND RETAINING WALLS WITH HANDRAILS AS DEPICTED ON SHEET S1.00 AND L1.02. INCLUDES, BUT NOT LIMITED TO: GRADING, PAVING, BASE PREP, HANDRAILS, LAKE PREP COMPLETE AND IN PLACE.

ALTERNATES PLAN
Scale: 1:80

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
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REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MALEK
2988
STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

ALTERNATES PLAN

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
G2.00

Plotted By:Lucing, Emily Sheet Set:Kha Layout:G2.00 November 01, 2022 04:11:08pm K:\HOU_LAL\P068925100_SRA Sam Collins Park\CAD\Sheets\G2.00 - Alternate Plan.dwg
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CITY OF BURKEVILLE, NEWRON COUNTY, TEXAS

VICINITY MAP

NTS

NORTH

GRAPHIC SCALE: 1" = 30'

30 0 30 60 90 Feet

BENCHMARK

ELEVATIONS HEREON ARE BASED UPON A NGS OPUS SOLUTION DERIVED FROM ON-SITE STATIC GPS OBSERVATIONS CONDUCTED AT THE TIME OF SURVEY. ACCORDING TO THE NGS OPUS REPORT, THE FOLLOWING CORS STATIONS WERE USED: PID DN5862 DESIGNATION TX51, PID DF7048 DESIGNATION LESV, AND PID DN4504 DESIGNATION TXC1; THE NEAREST NGS PUBLISHED CONTROL POINT IS PID BX2972 DESIGNATION TOLEDO. (NAVD88, COMPUTED USING GEOID18)

TEMPORARY BENCHMARK "A" ELEVATION – 193.27

SET BOX CUT IN CONCRETE, LOCATED ON SAM FORSE COLLINS RECREATION AREA RESTROOM PARKING LOT. +/– 1,630 FEET NORTH FROM THE INTERSECTION OF PRIVATE ROAD 6065 AND ROAD 255.

TEMPORARY BENCHMARK "B" ELEVATION – 194.34

SET RAIL ROAD SPIKE IN POWER POLE ON SOUTH TOLEDO BOAT LAUNCH, LOCATED ON THE WEST LINE OF PRIVATE ROAD 6066, +/– 210 FEET NORTH FROM THE INTERSECTION OF PRIVATE ROAD 6066 AND PRIVATE ROAD 6065.

TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE			TREE TABLE		
POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE	POINT	SIZE	TYPE
1655	14"	PINE	1705	18"	PINE	1757	20"	PINE	1819	15"	PINE	1871	16"	PINE	2989	17"	PINE	3291	19"	PINE	3397	14"	PINE	3549	14"	PINE	3637	12"	PINE	3689	16"	OAK
1656	13"	PINE	1708	14"	PINE	1758	13"	PINE	1820	15"	PINE	1872	12"	PINE	2990	16"	PINE	3292	14"	PINE	3399	14"	PINE	3550	17"	PINE	3638	12"	PINE	3690	12"	OAK-CLUSTER
1657	22"	PINE	1709	15"	OAK	1759	15"	OAK	1821	24"	OAK	1873	13"	PINE	2991	13"	OAK	3293	12"	PINE	3400	14"	PINE	3551	13"	PINE	3639	12"	PINE	3691	24"	PINE
1658	17"	PINE	1710	15"	OAK	1760	13"	PINE	1822	18"	PINE	1874	13"	PINE	2992	13"	PINE	3294	15"	PINE	3401	14"	PINE	3552	24"	OAK	3642	23"	PINE	3692	15"	PINE
1659	17"	PINE	1711	14"	PINE	1761	14"	PINE	1823	18"	PINE	1875	16"	PINE	2993	15"	PINE	3295	15"	PINE	3402	14"	PINE	3554	12"	OAK	3643	17"	OAK	3693	22"	PINE
1660	15"	PINE	1712	12"	OAK	1762	15"	PINE	1824	17"	PINE	1876	14"	PINE	2994	12"	PINE	3296	16"	PINE	3403	13"	PINE	3555	12"	PINE	3644	13"	OAK	3699	17"	PINE
1661	12"	PINE	1713	13"	CYPRESS	1763	14"	PINE	1825	21"	PINE-CLUSTER	1877	18"	PINE	2995	12"	PINE	3297	12"	PINE	3404	12"	PINE	3556	15"	PINE	3645	12"	OAK	3700	16"	PINE
1662	25"	PINE	1714	13"	CYPRESS	1764	20"	PINE	1826	18"	PINE	1878	20"	PINE-CLUSTER	2996	13"	PINE	3298	24"	OAK	3405	13"	PINE	3557	13"	PINE	3646	13"	OAK	3701	13"	PINE
1663	15"	PINE	1715	18"	OAK	1765	16"	PINE	1827	20"	PINE	1879	13"	PINE	2997	13"	PINE	3299	12"	PINE	3406	14"	PINE	3558	14"	PINE	3647	13"	PINE	3702	14"	PINE
1664	18"	PINE	1716	18"	PINE	1766	13"	PINE	1828	21"	PINE	1880	19"	PINE	2998	16"	PINE-CLUSTER	3300	12"	OAK	3407	15"	PINE	3559	12"	PINE	3648	17"	OAK	3703	12"	PINE
1665	26"	PINE	1717	14"	OAK	1767	15"	OAK-CLUSTER	1829	26"	PINE	1881	19"	PINE	2999	12"	PINE	3327	13"	PINE	3408	15"	PINE	3560	17"	PINE	3649	16"	OAK	3704	14"	PINE
1666	13"	PINE	1718	17"	PINE	1768	14"	OAK	1830	24"	PINE	1882	23"	PINE	3000	12"	PINE	3328	14"	PINE	3409	12"	PINE	3561	14"	PINE	3650	14"	PINE	3705	16"	PINE
1667	18"	OAK	1719	12"	OAK	1769	12"	PINE	1831	24"	PINE	1883	30"	PINE-CLUSTER	3001	12"	PINE-CLUSTER	3329	12"	PINE	3410	13"	PINE	3562	16"	CYPRESS	3651	15"	PINE	3706	24"	PINE
1668	18"	OAK	1720	19"	PINE	1770	12"	PINE	1832	24"	PINE	1884	22"	PINE	3002	14"	PINE	3330	16"	PINE	3411	14"	PINE	3597	14"	PINE	3652	13"	OAK	3707	18"	OAK
1669	24"	PINE	1721	14"	OAK	1771	13"	PINE	1833	22"	PINE	1885	23"	PINE	3003	14"	PINE	3332	13"	PINE	3412	15"	PINE	3598	12"	PINE	3653	15"	OAK	3710	12"	PINE
1670	20"	PINE	1722	17"	PINE	1772	16"	PINE	1834	26"	PINE	1886	20"	PINE	3004	14"	PINE	3339	12"	PINE	3413	15"	PINE	3599	12"	PINE	3654	15"	OAK	3711	12"	PINE
1671	13"	PINE	1723	17"	PINE	1773	20"	PINE	1835	21"	OAK	1887	15"	PINE	3005	13"	PINE	3340	18"	PINE	3414	17"	PINE	3601	12"	PINE	3655	17"	OAK	3713	12"	PINE
1672	15"	PINE	1724	12"	OAK	1774	16"	PINE	1836	16"	OAK	1888	18"	PINE	3006	18"	PINE	3341	14"	PINE	3415	12"	PINE	3602	12"	PINE	3656	12"	OAK	3714	14"	PINE
1673	18"	PINE	1725	36"	CYPRESS	1787	22"	PINE	1837	18"	OAK	1889	17"	PINE	3007	19"	PINE-CLUSTER	3342	14"	PINE	3416	13"	PINE	3603	12"	PINE	3657	15"	OAK	3715	12"	PINE
1674	18"	PINE	1726	19"	PINE	1788	18"	PINE	1838	15"	PINE	2481	17"	OAK	3008	14"	PINE	3343	22"	PINE	3417	12"	PINE	3604	12"	PINE	3658	13"	PINE	3716	16"	PINE
1675	20"	PINE	1727	13"	PINE	1789	18"	PINE	1839	16"	PINE	2482	32"	PINE	3009	20"	PINE	3344	12"	PINE	3418	15"	PINE	3605	13"	PINE	3659	15"	PINE	3719	14"	PINE
1676	13"	PINE	1728	15"	PINE	1790	14"	PINE	1840	24"	OAK	2692	22"	PINE	3010	13"	PINE	3345	13"	PINE	3419	13"	PINE	3606	13"	PINE	3660	12"	PINE	3722	13"	PINE
1677	18"	PINE	1729	15"	PINE	1791	24"	PINE	1841	24"	OAK	2693	22"	PINE	3011	13"	PINE	3346	12"	PINE	3420	13"	PINE	3607	15"	PINE	3661	18"	OAK	3723	15"	PINE
1678	19"	OAK	1730	13"	CYPRESS	1792	21"	PINE	1842	14"	PINE	2694	21"	PINE	3012	12"	PINE	3347	13"	PINE	3500	14"	PINE	3608	13"	PINE	3662	19"	OAK	3724	12"	PINE
1679	12"	OAK	1731	13"	CYPRESS	1793	23"	PINE	1843	22"	OAK	2695	20"	PINE-CLUSTER	3013	12"	PINE	3348	16"	PINE	3501	12"	PINE	3609	12"	PINE	3663	13"	OAK	3726	13"	PINE
1680	17"	PINE	1732	15"	OAK	1794	16"	PINE	1844	30"	PINE	2696	18"	PINE	3014	13"	PINE	3350	13"	OAK-CLUSTER	3502	12"	PINE	3610	13"	PINE	3664	19"	OAK	3727	14"	PINE-CLUSTER
1681	14"	PINE	1733	15"	OAK	1795	18"	PINE	1845	19"	PINE	2697	17"	PINE	3015	19"	PINE	3351	15"	PINE	3503	13"	PINE	3611	12"	PINE	3665	20"	OAK	3728	12"	PINE
1682	26"	OAK	1734	12"	OAK	1796	20"	PINE	1846	28"	PINE	2698	20"	PINE	3016	13"	PINE	3352	12"	PINE	3504	13"	PINE	3612	12"	PINE	3666	13"	OAK	3729	15"	PINE-CLUSTER
1683	25"	OAK-CLUSTER	1735	14"	PINE	1797	21"	PINE	1847	24"	PINE	2699	20"	PINE	3017	18"	PINE	3353	15"	PINE	3505	18"	PINE	3613	13"	PINE	3667	14"	OAK			
1684	13"	OAK-CLUSTER	1736	12"	PINE	1798	14"	PINE	1848	20"	PINE	2700	17"	PINE	3018	13"	PINE	3354	12"	PINE	3506	12"	PINE	3614	13"	PINE	3668	14"	OAK			
1685	14"	OAK	1737	13"	PINE	1799	22"	PINE	1849	24"	PINE	2701	19"	PINE	3019	13"	PINE	3355	13"	PINE	3507	15"	PINE	3615	12"	PINE	3669	12"	OAK			
1686	18"	PINE	1738	18"	PINE	1800	15"	PINE	1850	24"	OAK	2702	15"	PINE	3020	13"	PINE	3356	13"	PINE	3508	14"	PINE	3616	14"	PINE	3670	12"	OAK			
1687	14"	OAK	1739	12"	PINE	1801	15"	PINE	1853	25"	PINE	2781	15"	CYPRESS	3021	13"	PINE-CLUSTER	3357	13"	PINE	3509	16"	PINE	3617	12"	PINE	3671	13"	OAK			
1688	33"	OAK	1740	21"	PINE	1802	15"	PINE	1854	23"	PINE	2907	24"	PINE	3022	12"	PINE	3362	12"	PINE	3510	14"	PINE	3618	14"	PINE	3672	13"	OAK			
1689	12"	OAK	1741	16"	PINE	1803	15"	PINE	1855	20"	PINE	2956	14"	PINE	3023	26"	PINE-CLUSTER	3363	12"	PINE	3511	15"	PINE	3619	14"	PINE	3673	32"	PINE			
1690	13"	OAK	1742	24"	PINE	1804	15"	PINE	1856	16"	PINE	2957	14"	PINE	3024	15"	PINE	3365	14"	PINE	3512	14"	PINE	3620	12"	PINE	3674	20"	OAK			
1691	12"	OAK	1743	18"	PINE	1805	18"	PINE	1857	24"	PINE	2974	14"	PINE	3025	18"	PINE	3366	14"	PINE	3513	13"	PINE	3621	13"	PINE	3675	20"	OAK			
1692	22"	OAK	1744	14"	PINE	1806	21"	PINE	1858	16"	PINE	2975	12"	PINE	3026	17"	PINE	3378	13"	PINE	3514	13"	PINE	3622	12"	PINE	3676	20"	PINE			
1693	21"	OAK	1745	16"	PINE	1807	20"	PINE	1859	20"	PINE	2976	12"	PINE	3027	14"	PINE	3379	15"	PINE	3515	14"	PINE	3623	14"	PINE	3677	21"	OAK			
1694	22"	PINE	1746	12"	PINE	1808	17"	PINE	1860	17"	PINE	2977	19"	PINE	3028	14"	PINE	3380	15"	PINE	3535	22"	PINE	3624	14"	PINE	3678	14"	OAK			
1695	20"	OAK	1747	12"	PINE	1809	26"	PINE	1861	26"	PINE	2978	12"	PINE	3109	14"	PINE	3381	12"	PINE	3536	20"	PINE	3625	14"	PINE	3679	12"	OAK			
1696	18"	OAK	1748	12"	PINE	1810	22"	OAK	1862	22"	PINE	2979	12"	PINE	3110	12"	PINE	3382	13"	PINE	3537	13"	OAK	3626	12"	PINE	3680	14"	OAK			
1697	16"	OAK	1749	16"	OAK	1811	20"	OAK	1863	24"	PINE	2980	14"	PINE	3111	12"	PINE	3383	15"	PINE	3538	12"	OAK	3627	12"	PINE	3681	20"	PINE			
1698	15"	OAK	1750	16"	PINE-CLUSTER	1812	26"	OAK	1864	22"	PINE	2981	18"	PINE	3112	15"	PINE-CLUSTER	3384	14"	PINE	3539	12"	OAK	3628	14"	PINE	3682	25"	PINE			
1699	24"	PINE	1751	14"	PINE	1813	14"	PINE	1865	17"	PINE	2982	18"	PINE	3113	12"	PINE	3388	15"	PINE	3540	14"	OAK	3629	13"	PINE	3683	16"	PINE			
1700	20"	OAK	1752	13"	OAK	1814	14"	PINE	1866	22"	PINE	2984	16"	PINE	3114	13"	PINE	3392	12"	PINE	3541	12"	OAK	3630	15"	PINE	3684	17"	OAK			
1701	18"	OAK	1753	15"	PINE	1815	13"	PINE	1867	19"	PINE	2985	12"	PINE	3115	13"	PINE-CLUSTER	3393	14"	PINE	3542	12"	PINE	3631	16"	PINE	3685	14"	OAK			
1702	13"	OAK	1754	14"	PINE	1816	14"	PINE	1868	19"	PINE	2986	36"	OAK	3116	12"	PINE	3394	13"	PINE	3543	27"	PINE	3632	13"	PINE	3686	13"	OAK			
1703	12"	PINE	1755	12"	OAK	1817	14"	PINE	1869	25"	PINE	2987	15"	PINE	3284	19"	OAK-CLUSTER	3395	16"	PINE	3544	14"	OAK	3633	13"	PINE	3687	14"	PINE			
1704	14"	PINE	1756	12"	OAK	1818	12"	PINE	1870	20"	PINE	2988	14"	PINE	3285	25"	PINE	3396	13"	PINE	3548	12"	PINE	3636	12"	PINE	3688	12"	OAK			

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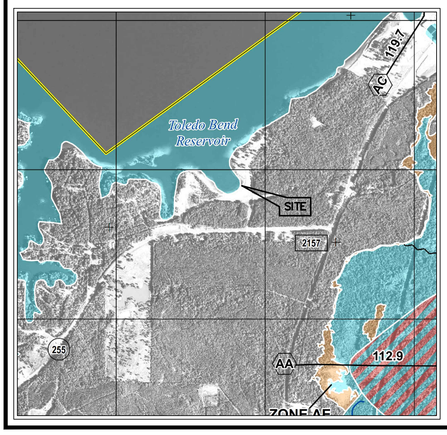
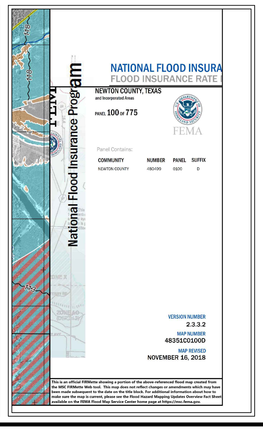
GENERAL NOTES

1. SURVEYOR DID NOT ABSTRACT SUBJECT PROPERTY. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT OR ABSTRACTORS CERTIFICATE AND WOULD BE SUBJECT TO ANY AND ALL CONDITIONS OR RESTRICTIONS THAT A CURRENT TITLE REPORT OR ABSTRACTORS CERTIFICATE MAY DISCLOSE.
2. BEARINGS WERE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD 83). ALL DISTANCES SHOWN HEREON ARE SURFACE DISTANCES AND MAY BE BROUGHT TO GRID BY APPLYING THE FOLLOWING SCALE FACTOR: 0.99998093.
3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM) FOR NEWTON COUNTY, TEXAS, MAP NO. 48351C0100D REVISED/DATED NOVEMBER 16, 2018, THE SUBJECT TRACT APPEARS TO LIE WITHIN UNSHADED ZONE "X" AND ZONE "A". THIS DETERMINATION WAS DONE BY GRAPHIC PLOTTING AND IS APPROXIMATE ONLY, AND HAS NOT BEEN FIELD VERIFIED. THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF WINDROSE LAND SERVICES.
4. READILY VISIBLE IMPROVEMENTS AND UTILITIES WERE LOCATED WITH THIS SURVEY. NO SUBSURFACE PROBING, EXCAVATION OR EXPLORATION WAS PERFORMED BY WINDROSE LAND SERVICES.
5. ENVIRONMENTAL AND DRAINAGE ISSUES ARE BEYOND THE SCOPE OF THIS SURVEY.
6. THE WORD "CERTIFY" OR "CERTIFICATE" AS SHOWN AND USED HEREON MEANS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE FACTS OF THE SURVEY AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE EXPRESSED OR IMPLIED.
7. ELEVATIONS SHOWN TO THE NEAREST TENTH ARE NATURAL GROUND SURFACE ELEVATIONS AND ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE SOLID SURFACE ELEVATIONS.
8. NO UTILITY PLANS WERE AVAILABLE AT THE TIME OF SURVEY.
9. SURVEYOR DID NOT PHYSICALLY ENTER MANHOLES. UNDERGROUND PIPE SIZES WERE DETERMINED BY A "MEASURE DOWN" METHOD FROM TOP OF MANHOLE RIM OR TOP OF GRATE OR TOP OF CURB AND WERE COMPARED WITH UTILITY PLANS WHERE POSSIBLE.
10. SURVEYOR HAS CONTACTED DIGTESS FOR LOCATION OF BURIED UTILITY AND FIBER OPTIC LINES PRIOR TO THIS SURVEY. SURVEYOR CANNOT CERTIFY OR GUARANTY THE ACCURACY OR COMPLETENESS OF THIS REQUEST. OTHER UNDERGROUND UTILITY LINES MAY EXIST NOT KNOWN TO THIS COMPANY. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT DIGTESS OR OTHER UTILITY NOTIFICATION SERVICES FOR LOCATION OF UNDERGROUND UTILITIES, PRIOR TO CONSTRUCTION.

FLOOD INFORMATION





SURVEYOR'S CERTIFICATION

TO: KIMLEY-HORN AND ASSOCIATES, INC.

I DO HEREBY CERTIFY TO THE ABOVE LISTED THAT THIS SURVEY WAS THIS DAY MADE ON THE GROUND AND WAS PERFORMED UNDER MY SUPERVISION. THAT THIS PLAT CORRECTLY REPRESENTS THE PROPERTY LEGALLY DESCRIBED HEREON, THAT THE FACTS FOUND AT THE TIME OF THIS SURVEY SHOW THE IMPROVEMENTS AND THAT THERE ARE NO VISIBLE ENCROACHMENTS APPARENT ON THE GROUND, EXCEPT AS SHOWN. THIS SURVEY SUBSTANTIALLY CONFORMS TO THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION II SURVEY, TO THE BEST OF MY KNOWLEDGE.

STATE OF TEXAS REGISTERED ROBERT KNESS 6486 PROFESSIONAL LAND SURVEYOR

05-12-2022

ROBERT KNESS
Registered Professional Land Surveyor
Texas Registration No. 6486

DATE

REVISIONS

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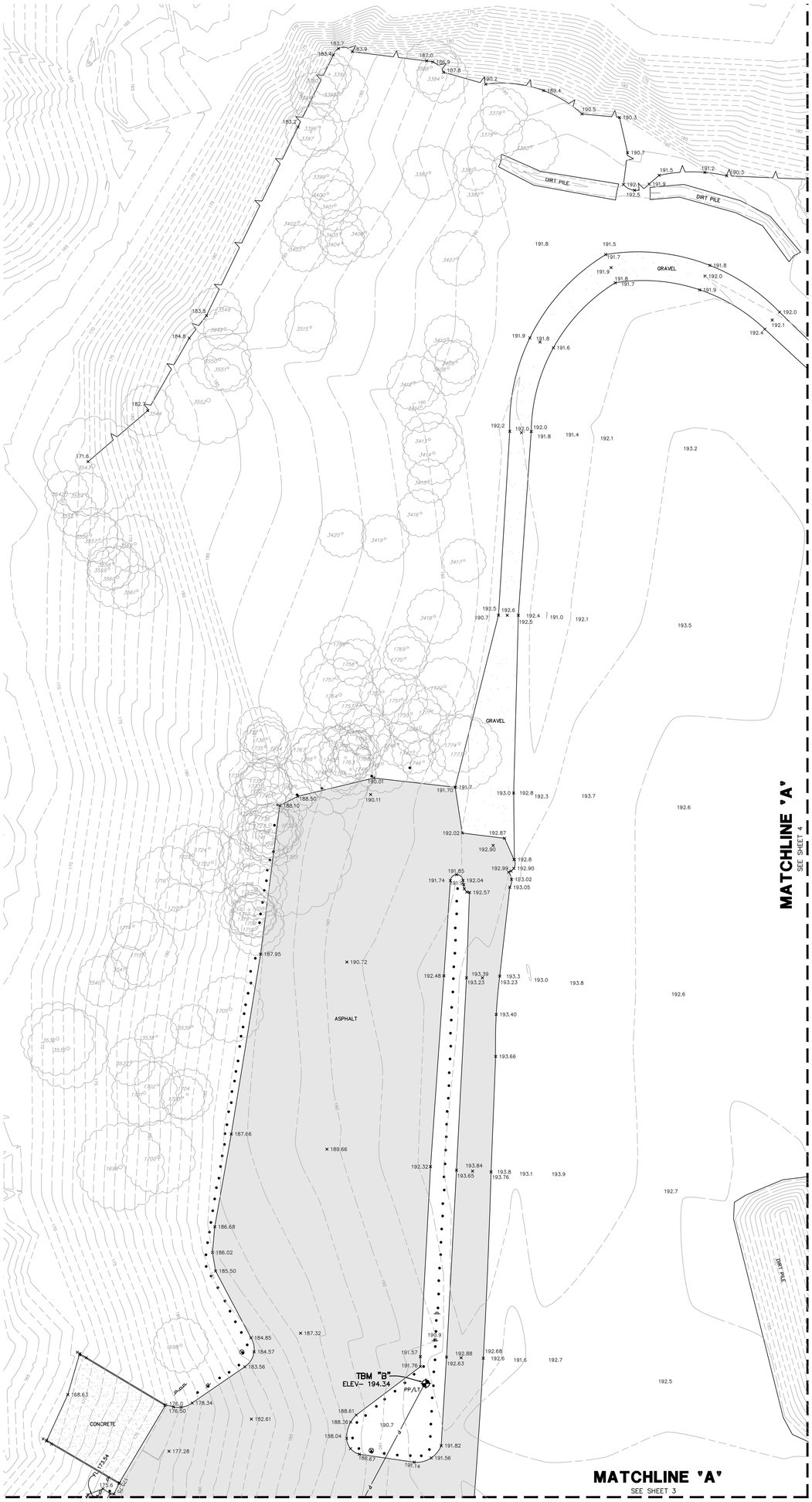

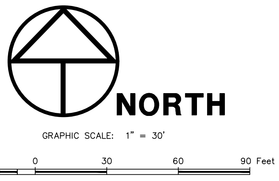

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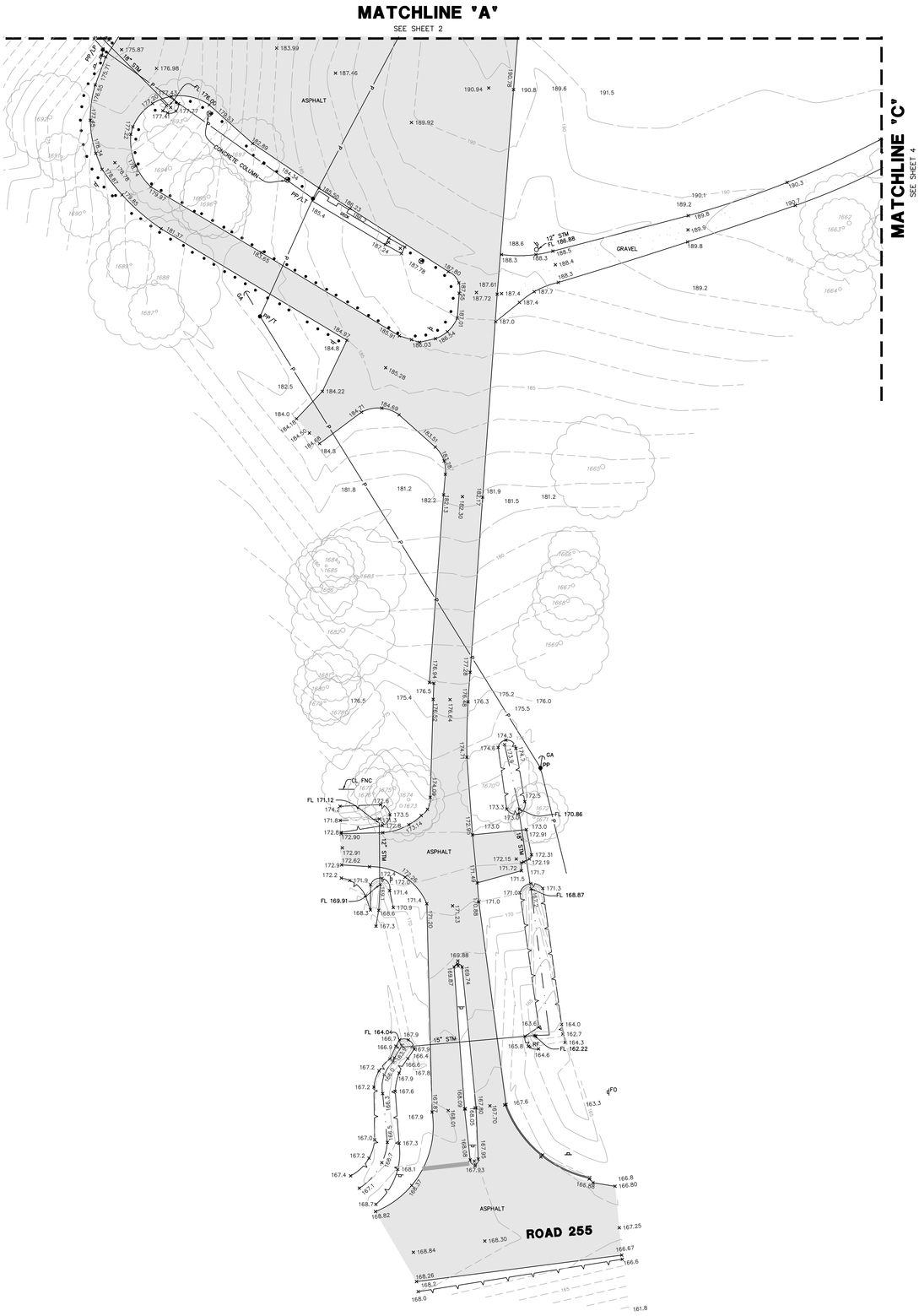
NORTH

GRAPHIC SCALE: 1" = 30'

30 0 30 60 90 Feet



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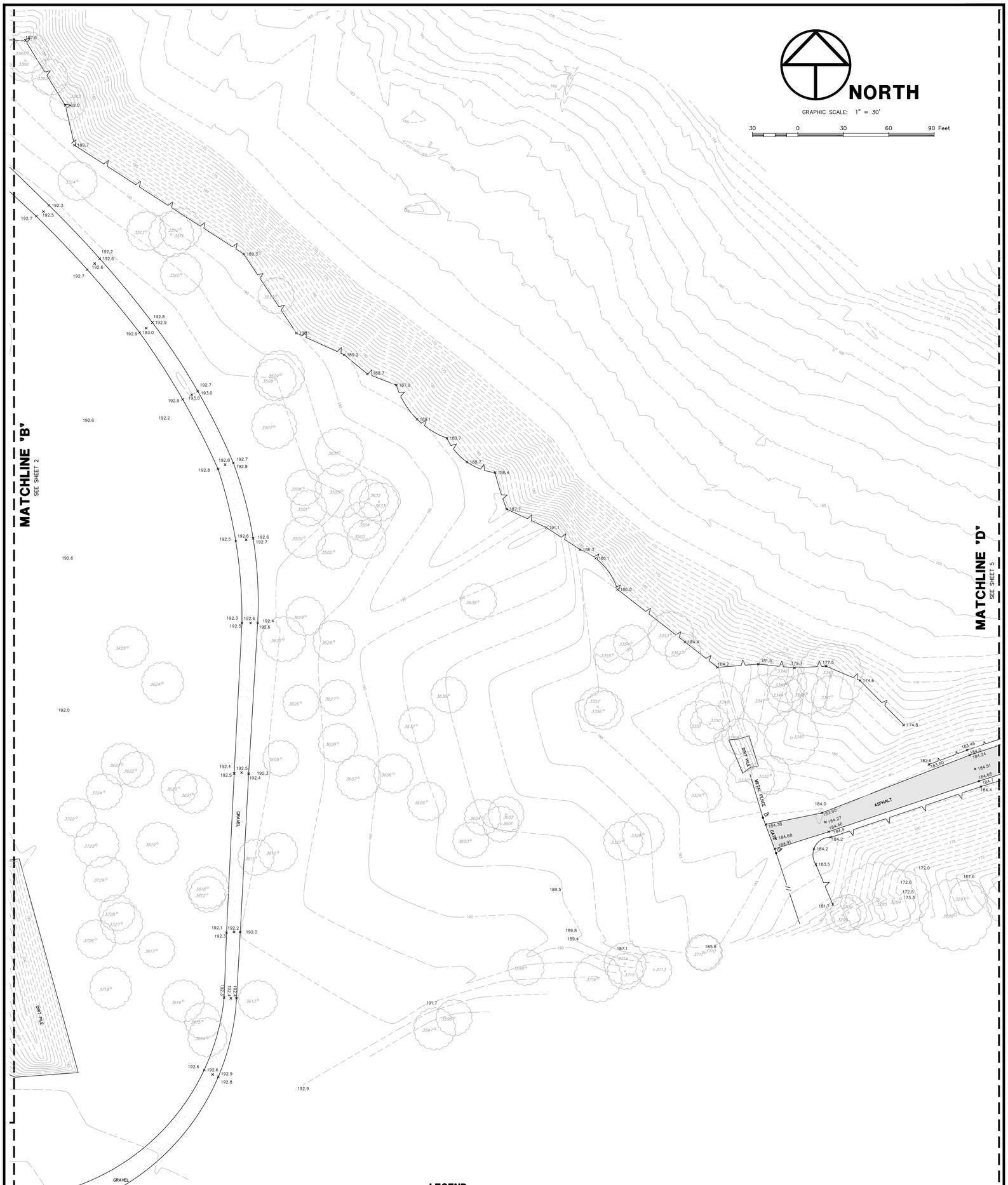

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DATE	REASON	BY
06–14–2022	UPDATED CONTOURS	AT
10–25–2022	ADJUSTED ELEVATIONS +1.89'	MC

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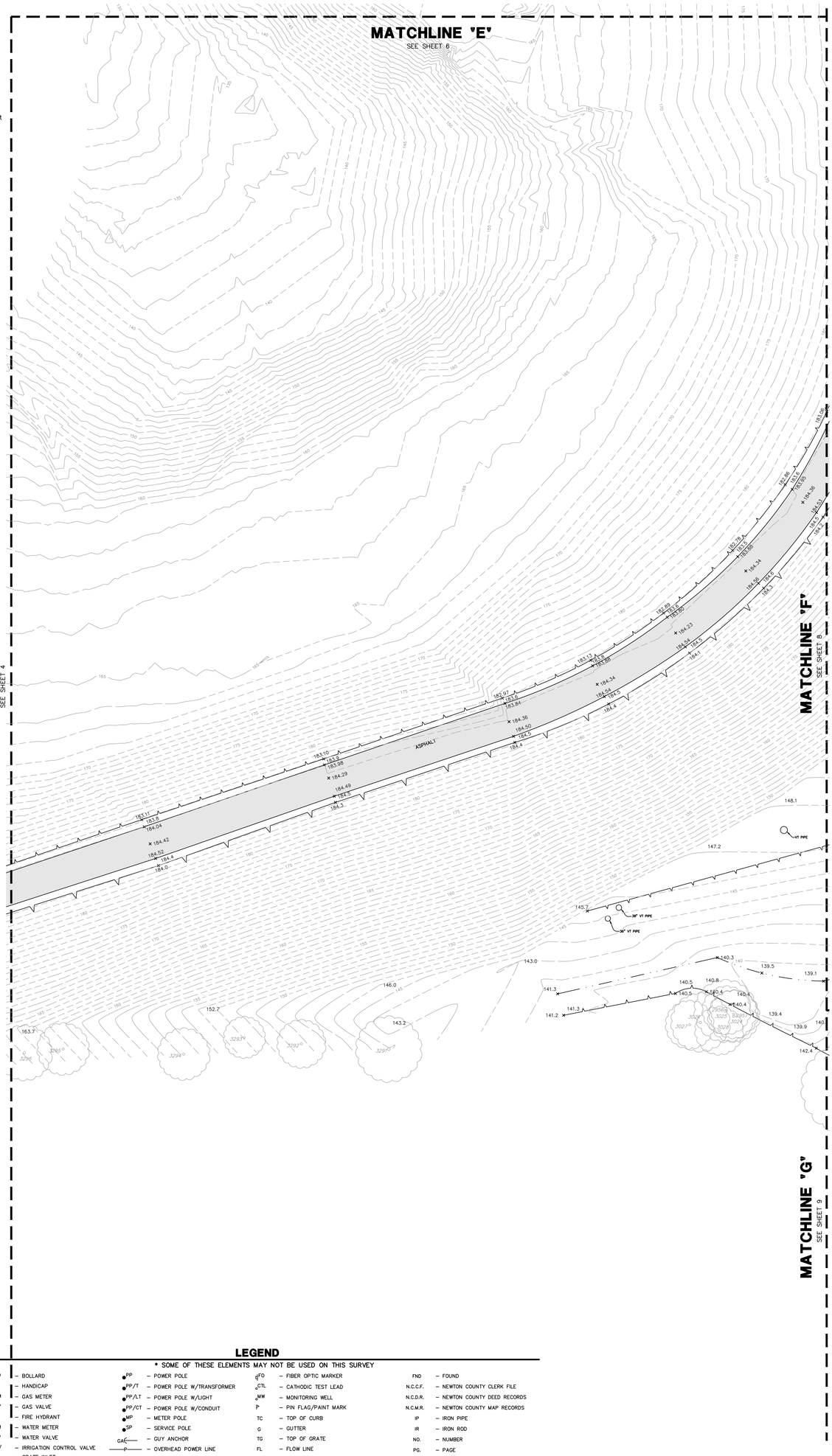
FIELDED BY: JF	CHECKED BY: KN/MC	JOB NO. 57398	
DRAWN BY: AT	DATE: MARCH 2022	SHEET NO. 4 OF 9	

NORTH

GRAPHIC SCALE: 1" = 30'

30 0 30 60 90 Feet



LEGEND

* SOME OF THESE ELEMENTS MAY NOT BE USED ON THIS SURVEY

BO	– BOLLARD	PP	– POWER POLE	FO	– FIBER OPTIC MARKER	FND	– FOUND
	– HANDICAP	PP/T	– POWER POLE W/TRANSFORMER	CTL	– CATHODIC TEST LEAD	N.C.C.F.	– NEWTON COUNTY CLERK FILE
GM	– GAS METER	PP/LT	– POWER POLE W/LIGHT	MW	– MONITORING WELL	N.C.D.R.	– NEWTON COUNTY DEED RECORDS
GV	– GAS VALVE	PP/CT	– POWER POLE W/CONDUIT	P	– PIN FLAG/PAINT MARK	N.C.M.R.	– NEWTON COUNTY MAP RECORDS
FH	– FIRE HYDRANT	MP	– METER POLE	TC	– TOP OF CURB	IP	– IRON PIPE
WM	– WATER METER	SP	– SERVICE POLE	G	– GUTTER	IR	– IRON ROD
WV	– WATER VALVE	GAC	– GUY ANCHOR	TG	– TOP OF GRATE	NO.	– NUMBER
ICV	– IRRIGATION CONTROL VALVE		– OVERHEAD POWER LINE	FL	– FLOW LINE	PG.	– PAGE
	– GRATE INLET		– BARBED WIRE FENCE	HB	– HIGHBANK	R.O.W.	– RIGHT-OF-WAY
	– GRATE INLET		– WROUGHT IRON FENCE	SAN	– SANITARY SEWER	SQ. FT.	– SQUARE FEET
	– MANHOLE		– WOOD FENCE	STM	– STORM SEWER	VOL.	– VOLUME
CO	– CLEANOUT		– CHAINLINK FENCE	CMP	– CORRUGATED METAL PIPE	F.C.	– FILM CODE
TP	– TELEPHONE PEDESTAL	GP	– GATE POST	CPP	– CORRUGATED PLASTIC PIPE	B.L.	– BUILDING LINE
EB	– ELECTRIC BOX	(P)	– PER PLANS	RCP	– REINFORCED CONCRETE PIPE	U.E.	– UTILITY EASEMENT
TSB	– TRAFFIC SIGNAL BOX	APPROX.	– APPROXIMATE	TEL	– TELEPHONE		– TREE/SHRUB
LP	– LIGHT POLE		– HIGHBANK	SWBT	– SOUTHWESTERN BELL TELEPHONE CO.	CL FNC	– CHAIN LINK FENCE
TLP	– TRAFFIC LIGHT POLE		– SIGN	WTR	– WATER	EM	– ELECTRIC METER
GL	– GROUND/SPOT LIGHT	PLM	– PIPELINE MARKER	UG	– UNDERGROUND	CB	– COMMUNICATIONS BOX
RF	– ROAD REFLECTOR		– WOOD POST & CABLE FENCE	VT	– VERTICAL PIPE		– PIPE FENCE
SS	– SANITIZE STATION		– WOOD POST	WF	– WATER FOUNTAIN		
				WTR PLM	– WATER PIPE LINE MARKER		

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PARTIAL TOPOGRAPHIC SURVEY OF
SAM F. COLLINS PARK
SITUATED IN THE
A.M. BEVIL SURVEY
ABSTRACT NO. 34
NEWTON COUNTY, TEXAS

REVISIONS

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DRAWN BY: AT	DATE: MARCH 2022	SHEET NO. 5 OF 9	

NORTH

GRAPHIC SCALE: 1" = 30'

30 0 30 60 90 Feet

LEGEND

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- BO – BOLLARD
- HANDICAP
- GM – GAS METER
- GV – GAS VALVE
- FH – FIRE HYDRANT
- WM – WATER METER
- WV – WATER VALVE
- ICV – IRRIGATION CONTROL VALVE
- GRATE INLET
- GRATE INLET
- MANHOLE
- CO – CLEANOUT
- TP – TELEPHONE PEDESTAL
- EB – ELECTRIC BOX
- TSB – TRAFFIC SIGNAL BOX
- LP – LIGHT POLE
- TLP – TRAFFIC LIGHT POLE
- GL – GROUND/SPOT LIGHT
- RF – ROAD REFLECTOR
- SS – SANITIZE STATION
- PP – POWER POLE
- PP/T – POWER POLE W/TRANSFORMER
- PP/LT – POWER POLE W/LIGHT
- PP/CT – POWER POLE W/CONDUIT
- MP – METER POLE
- SP – SERVICE POLE
- GA – GUY ANCHOR
- OVERHEAD POWER LINE
- BARBED WIRE FENCE
- WROUGHT IRON FENCE
- WOOD FENCE
- CHAINLINK FENCE
- GP – GATE POST
- (P) – PER PLANS
- APPROX. – APPROXIMATE
- HIGHBANK
- SIGN
- PLM – PIPELINE MARKER
- WOOD POST & CABLE FENCE
- WOOD POST
- FO – FIBER OPTIC MARKER
- CTL – CATHODIC TEST LEAD
- MW – MONITORING WELL
- P – PIN FLAG/PAINT MARK
- TC – TOP OF CURB
- G – GUTTER
- TG – TOP OF GRATE
- FL – FLOW LINE
- HB – HIGHBANK
- SAN – SANITARY SEWER
- STM – STORM SEWER
- CMP – CORRUGATED METAL PIPE
- CPP – CORRUGATED PLASTIC PIPE
- RCP – REINFORCED CONCRETE PIPE
- TEL – TELEPHONE
- SWBT. – SOUTHWESTERN BELL TELEPHONE CO.
- WTR – WATER
- UG – UNDERGROUND
- VT – VERTICAL PIPE
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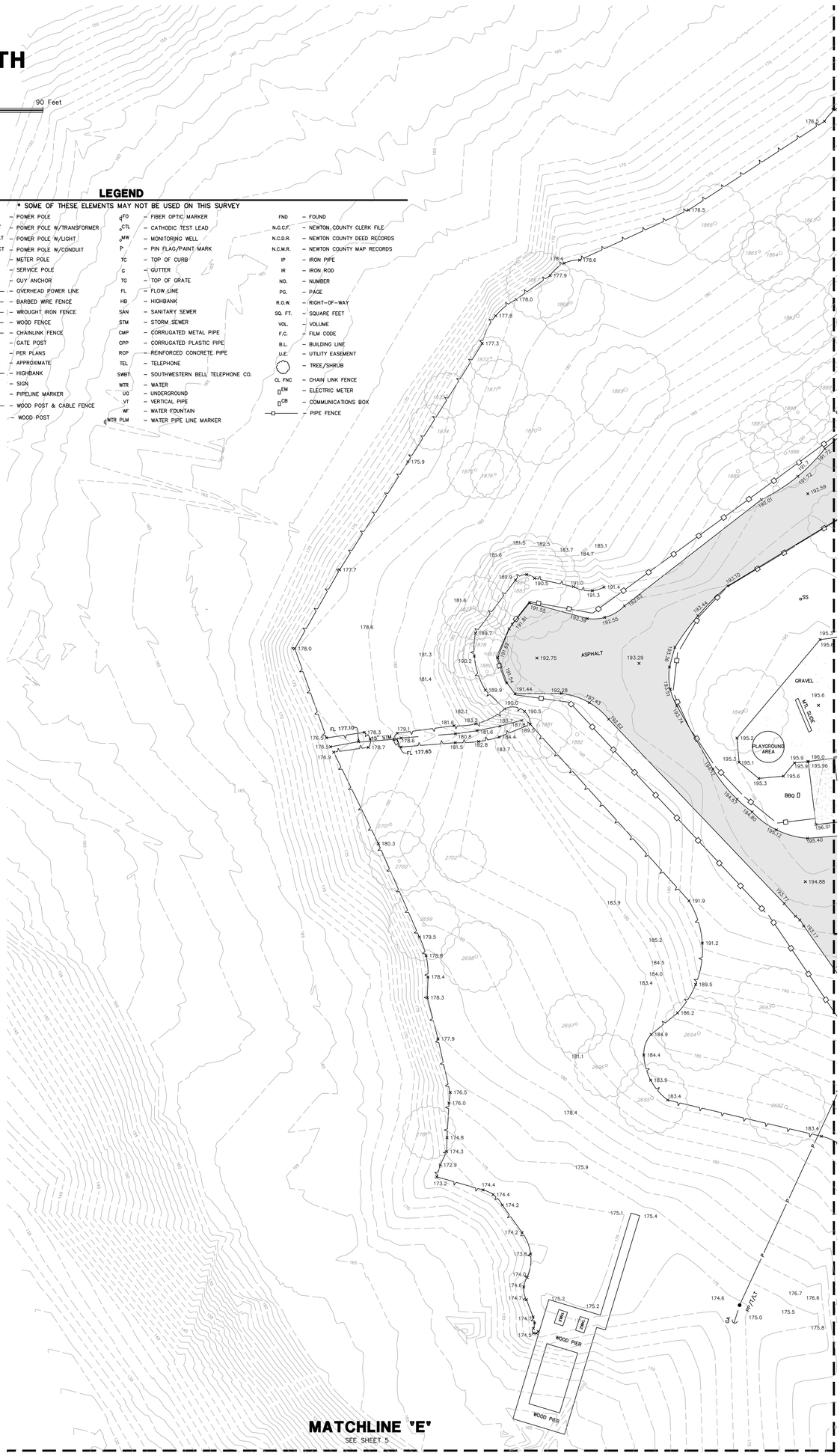

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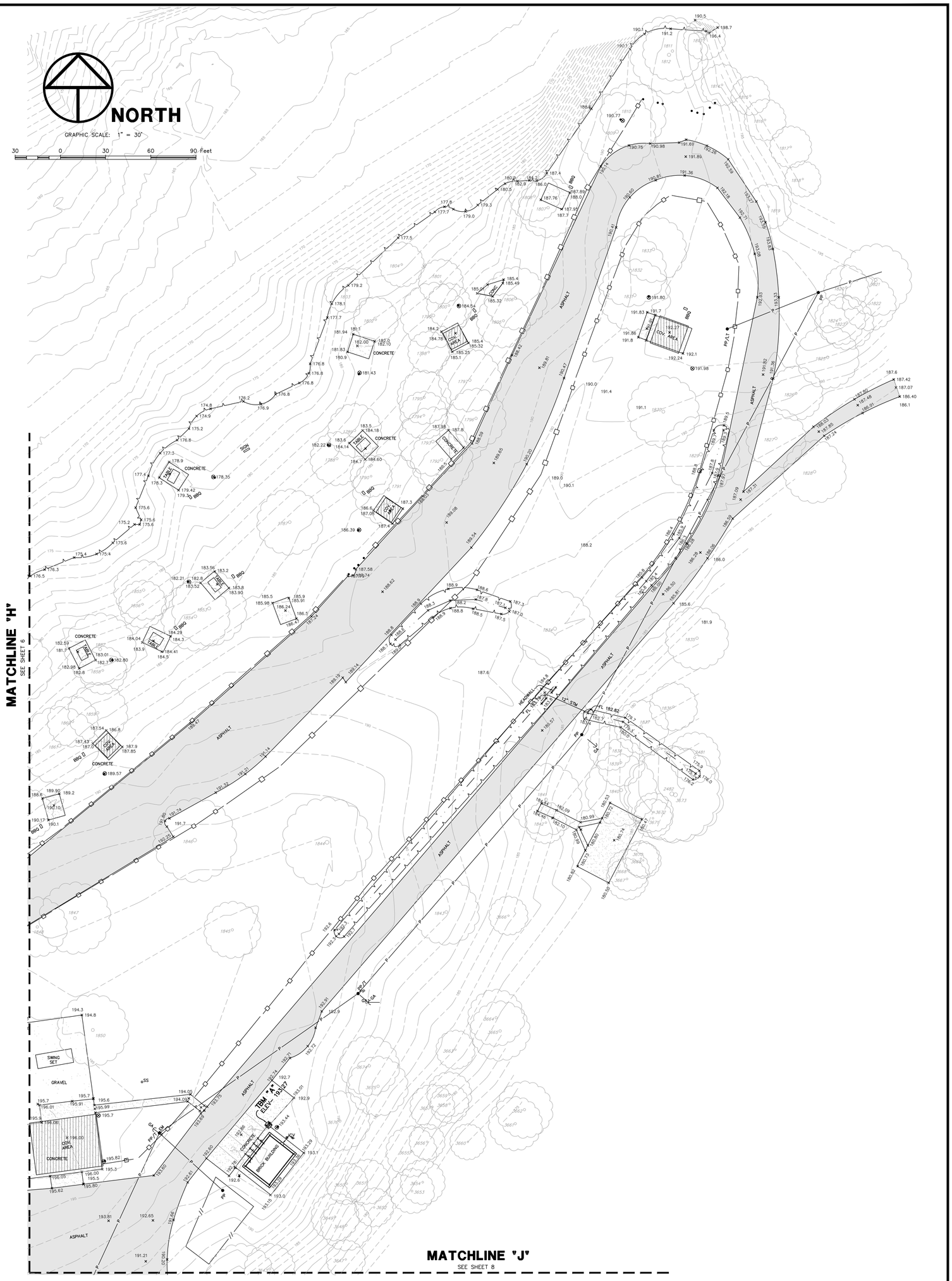
DRAWN BY: AT	DATE: MARCH 2022	SHEET NO. 6 OF 9	



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- TLP – TRAFFIC LIGHT POLE
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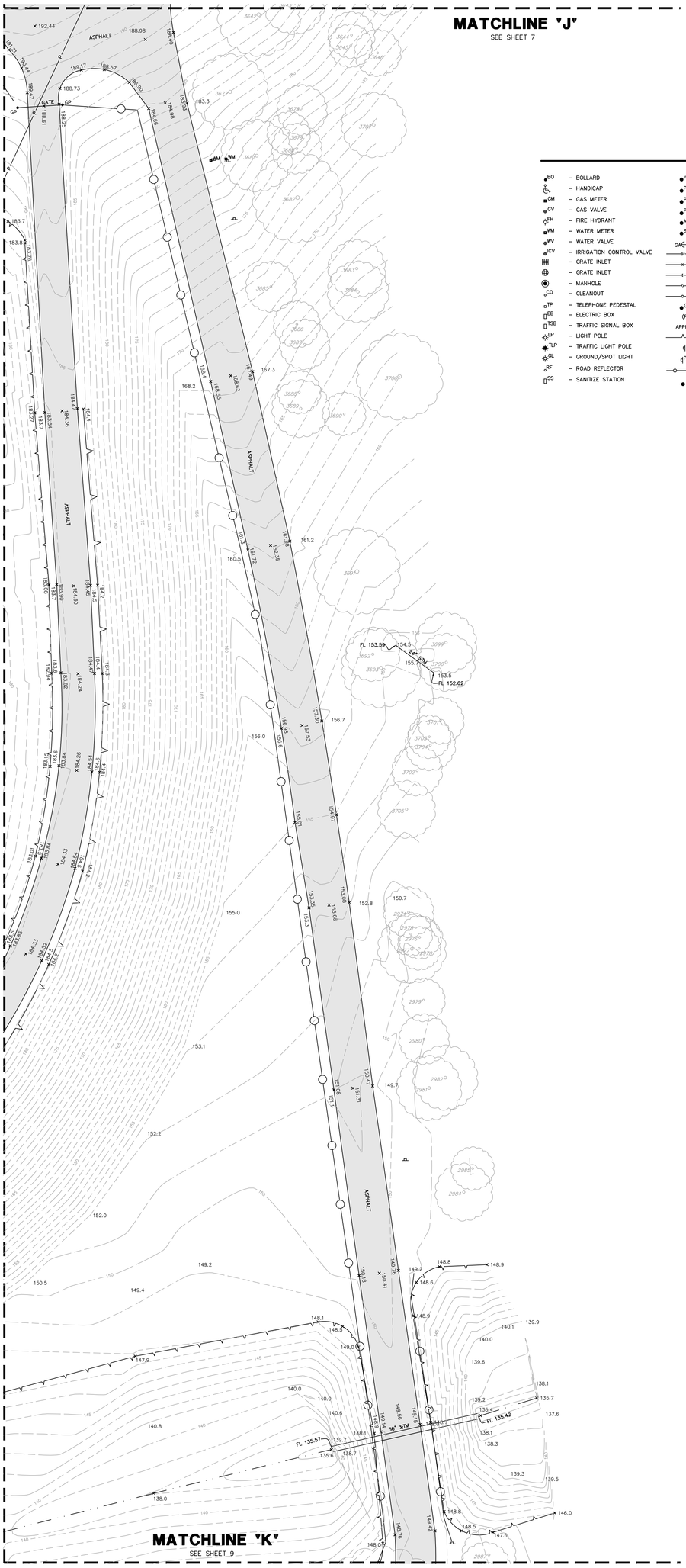

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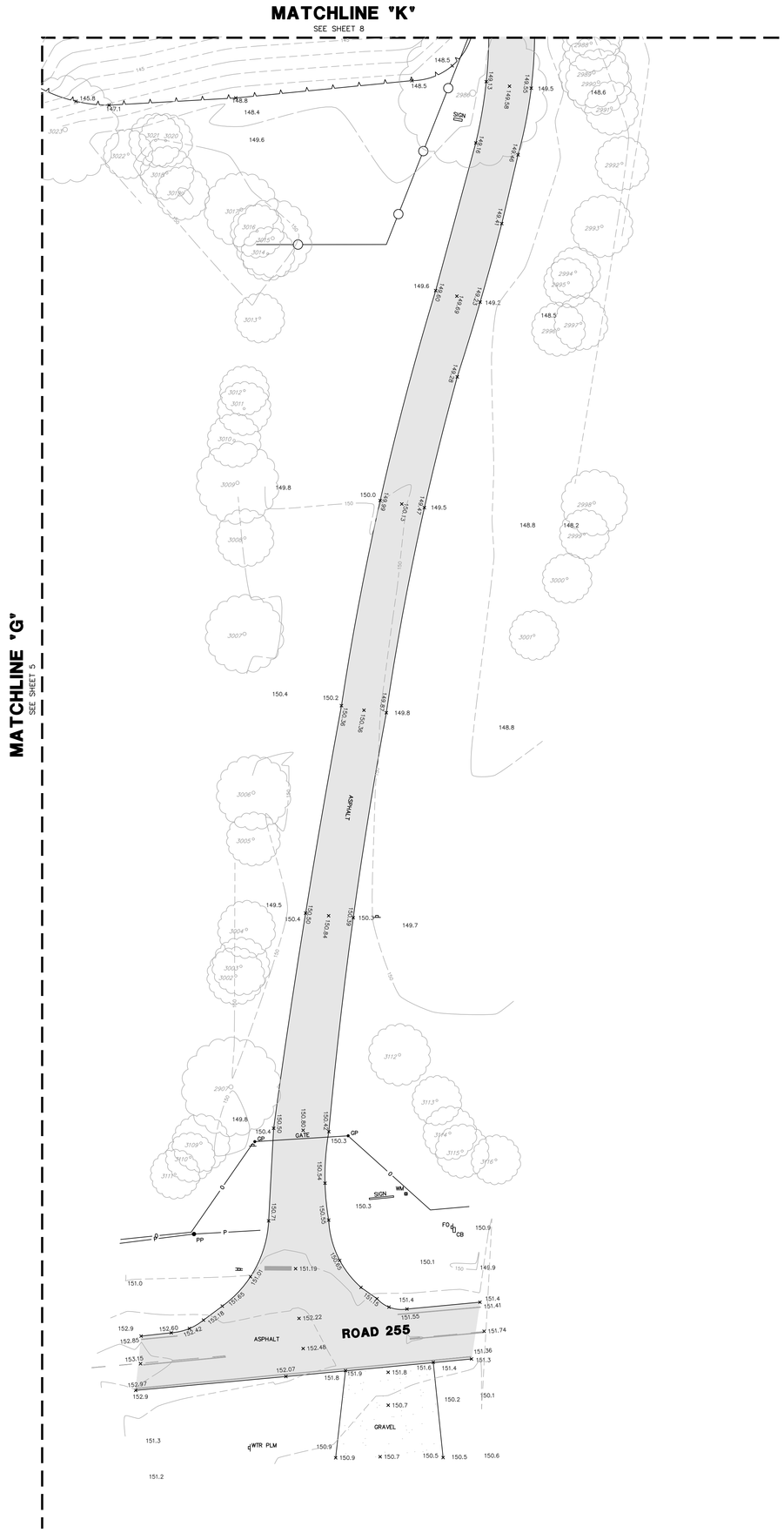

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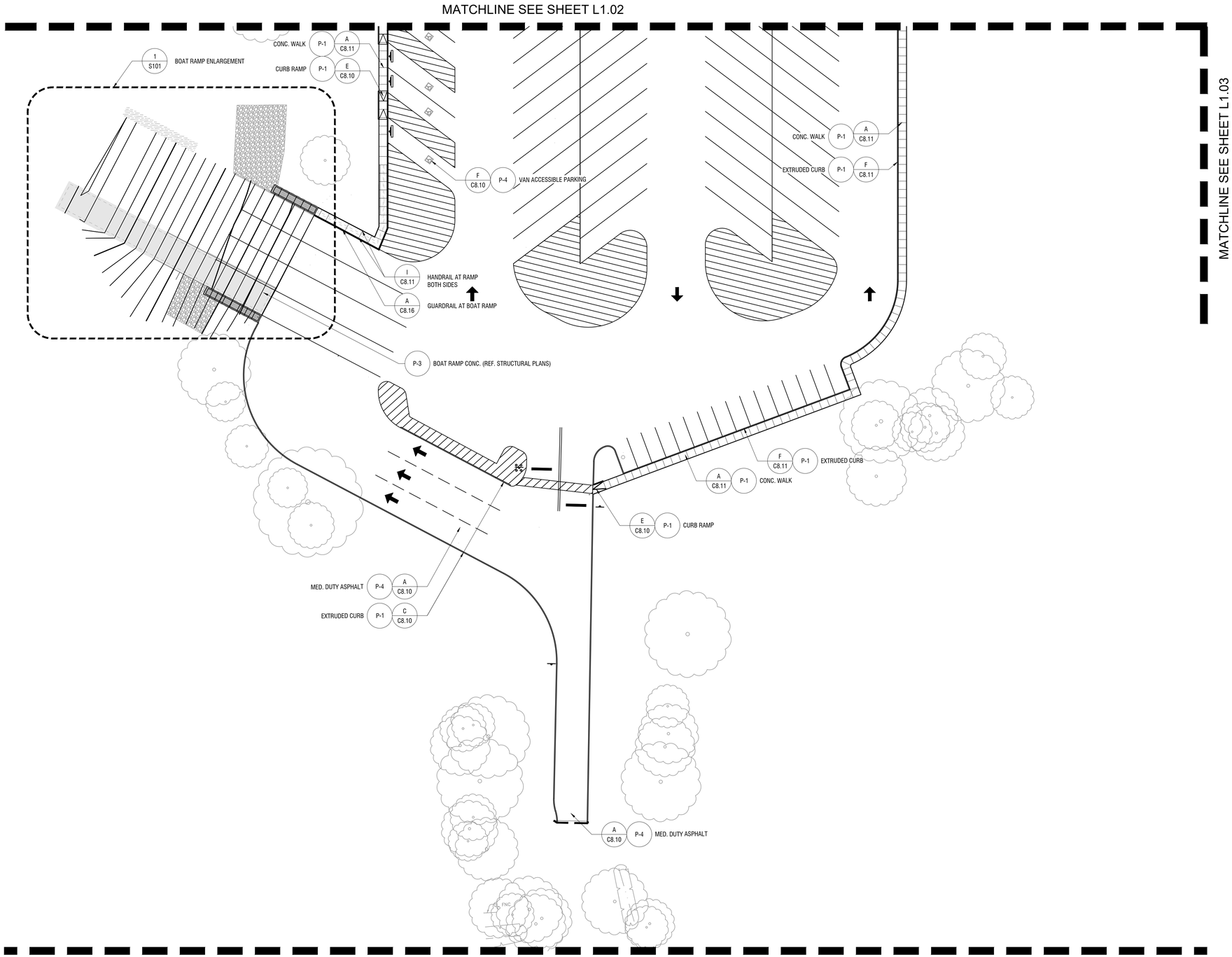

SITE PLAN

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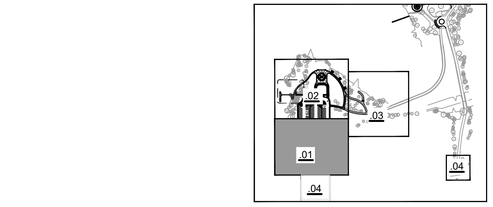

KEY MAP NTS

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	DATE	BY

Kimley»Horn

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PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MALEK
2988
STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

SITE PLAN 1 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

L1.01

Plotted By:Luong, Emily Sheet Set:Kha Layout:L1.01 November 01, 2022 04:14:02pm K:\HOU_LAL\P\068925100_SRA Sam Collins Park\CAD\Sheets\C1.00.dwg
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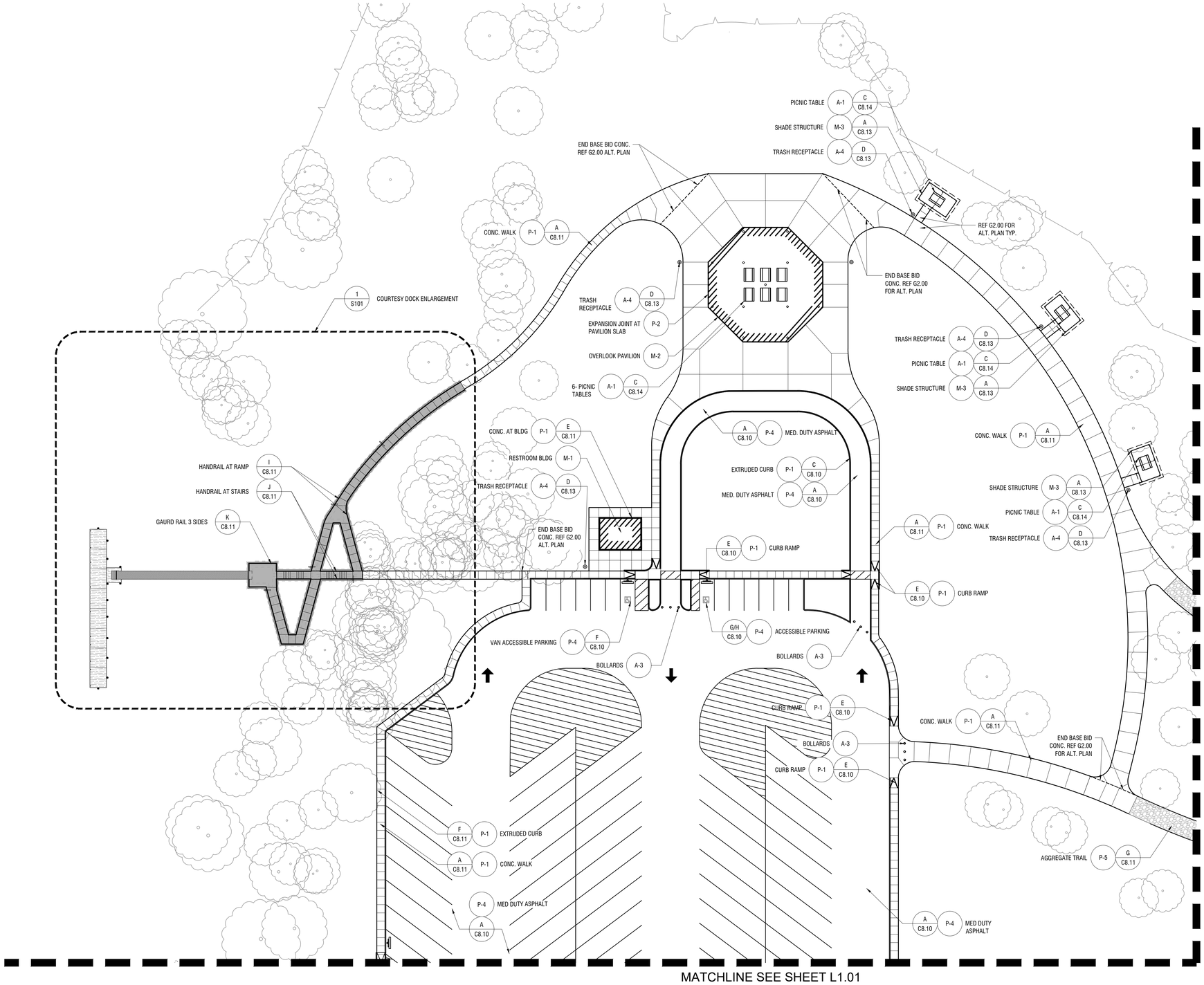

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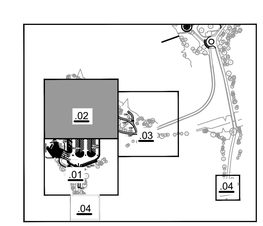
0 15 30 60



KEY MAP NTS

No.	DATE	BY

Kimley»Horn

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PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

SITE PLAN 2 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

L1.02

Plotted By:Luong, Emily Sheet Set:Kha Layout:L1.02 November 01, 2022 04:14:07pm K:\HOU_LA\P\068925100_SRA Sam Collins Park\CAD\Sheets\C1.00.dwg
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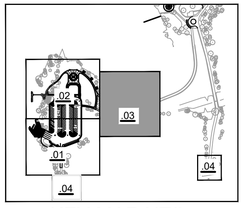
SITE PLAN

Scale: 1:30

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60



KEY MAP NTS

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REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MALEK
2988
STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

SITE PLAN 3 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY

BURKEVILLE TEXAS

SHEET NUMBER

L1.03

Plotted By:Luong, Emily Sheet Set:Kha Layout:L1.03 November 01, 2022 04:14:10pm K:\HOU_LAL\P\068925100_SRA Sam Collins Park\CAD\Sheets\C1.00.dwg
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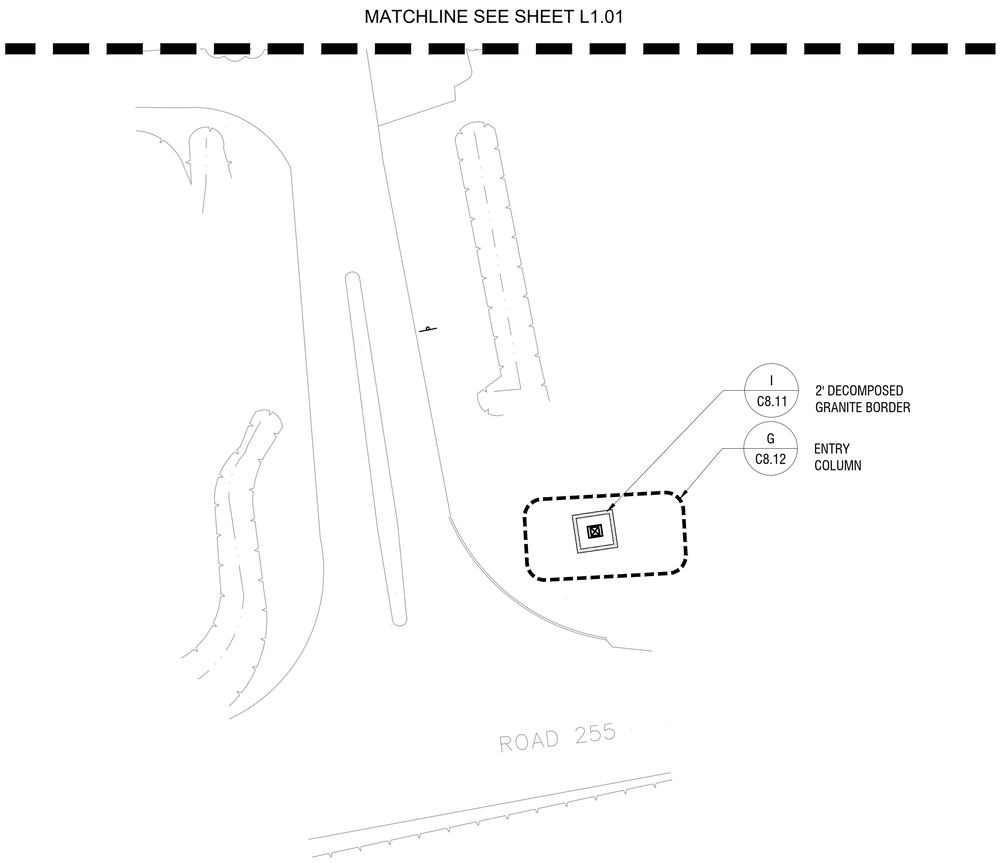

SITE PLAN B
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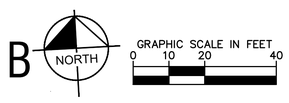
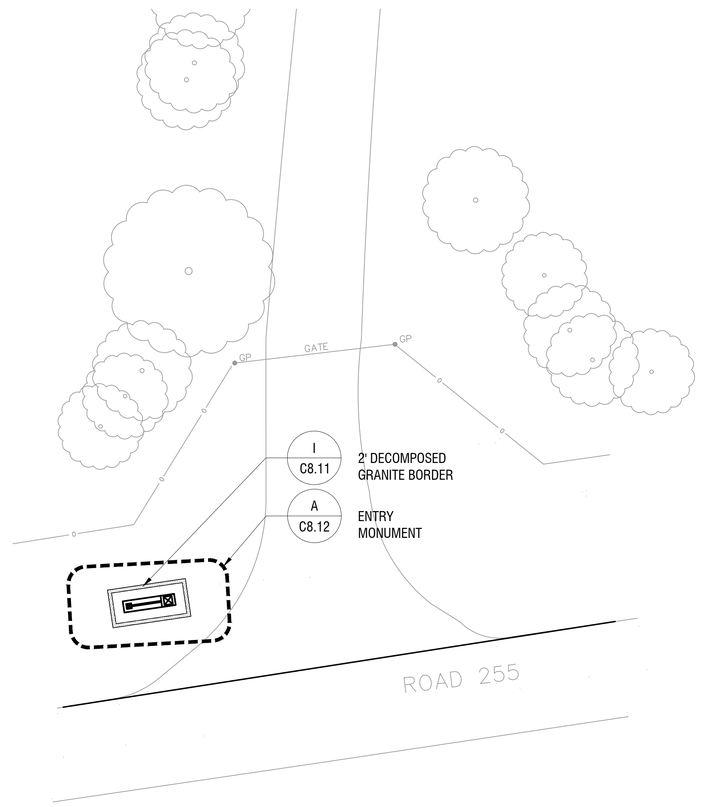
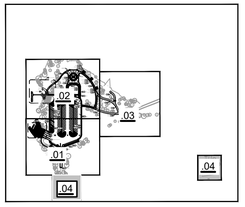




SITE PLAN A
Scale: 1:20



KEY MAP NTS

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2988
STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
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SITE PLAN 4 OF 4

SAM COLLINS PARK PHASE 1A

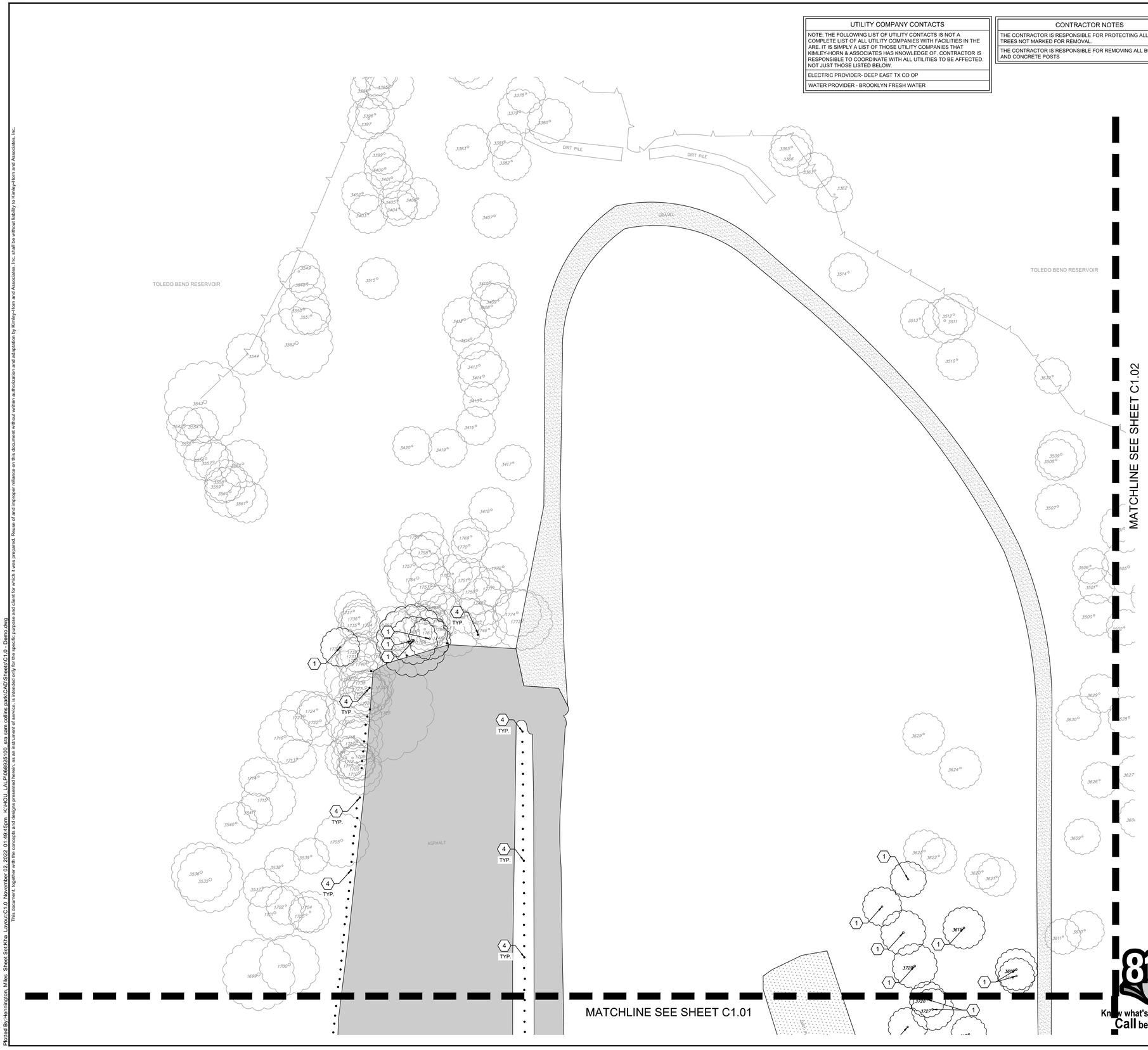
PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

L1.04



UTILITY COMPANY CONTACTS
NOTE: THE FOLLOWING LIST OF UTILITY CONTACTS IS NOT A COMPLETE LIST OF ALL UTILITY COMPANIES WITH FACILITIES IN THE ARE. IT IS SIMPLY A LIST OF THOSE UTILITY COMPANIES THAT KIMLEY-HORN & ASSOCIATES HAS KNOWLEDGE OF. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL UTILITIES TO BE AFFECTED. NOT JUST THOSE LISTED BELOW.
ELECTRIC PROVIDER- DEEP EAST TX CO OP
WATER PROVIDER - BROOKLYN FRESH WATER

CONTRACTOR NOTES
THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TREES NOT MARKED FOR REMOVAL.
THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL BOLLARDS AND CONCRETE POSTS

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT.
	EXISTING PAVEMENT TO BE BORED
	EXISTING GRAVEL TO BE REMOVED

KEYED NOTES	
1	EX. TREES TO BE REMOVED (TYP.). REF. LANDSCAPE PLANS FOR DETAILS
2	EX. UTILITY POLE TO REMAIN (TYP.)
3	EX. GATE TO REMAIN (TYP.)
4	EX. BOLLARD TO BE REMOVED (TYP.)
5	EX. SIGN TO BE RELOCATED BY OWNER (TYP.)
6	EX. CONCRETE COLUMN TO BE REMOVED (TYP.)
7	FULL DEPTH SAW CUT
8	EX. STORM TO BE REMOVED (TYP.)
9	EX. ADA RAMP STRUCTURE TO BE REMOVED (TYP.)
10	EX. UTILITY POLE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION (TYP.)

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

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3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

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5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

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10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA MAP.

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811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA
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No.	DATE	BY

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STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DEMOLITION PLAN (1 OF 4)

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C1.00

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C1.0 November 02, 2022 01:49:45pm K:\HOU_LA\LP\068925100_sra sam collins park\CAD\Sheets\C1.0 - Demo.dwg
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NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT.
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STATE OF TEXAS
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139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DEMOLITION PLAN (2 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C1.01

Plotted By:Hennington, Miles; Sheet Set:Kha_Layout;C1.1; November 02, 2022 01:49:47pm K:\HOU_LA\P\068925100_sra sam collins park\CAD\Sheets\C1.0 - Demo.dwg
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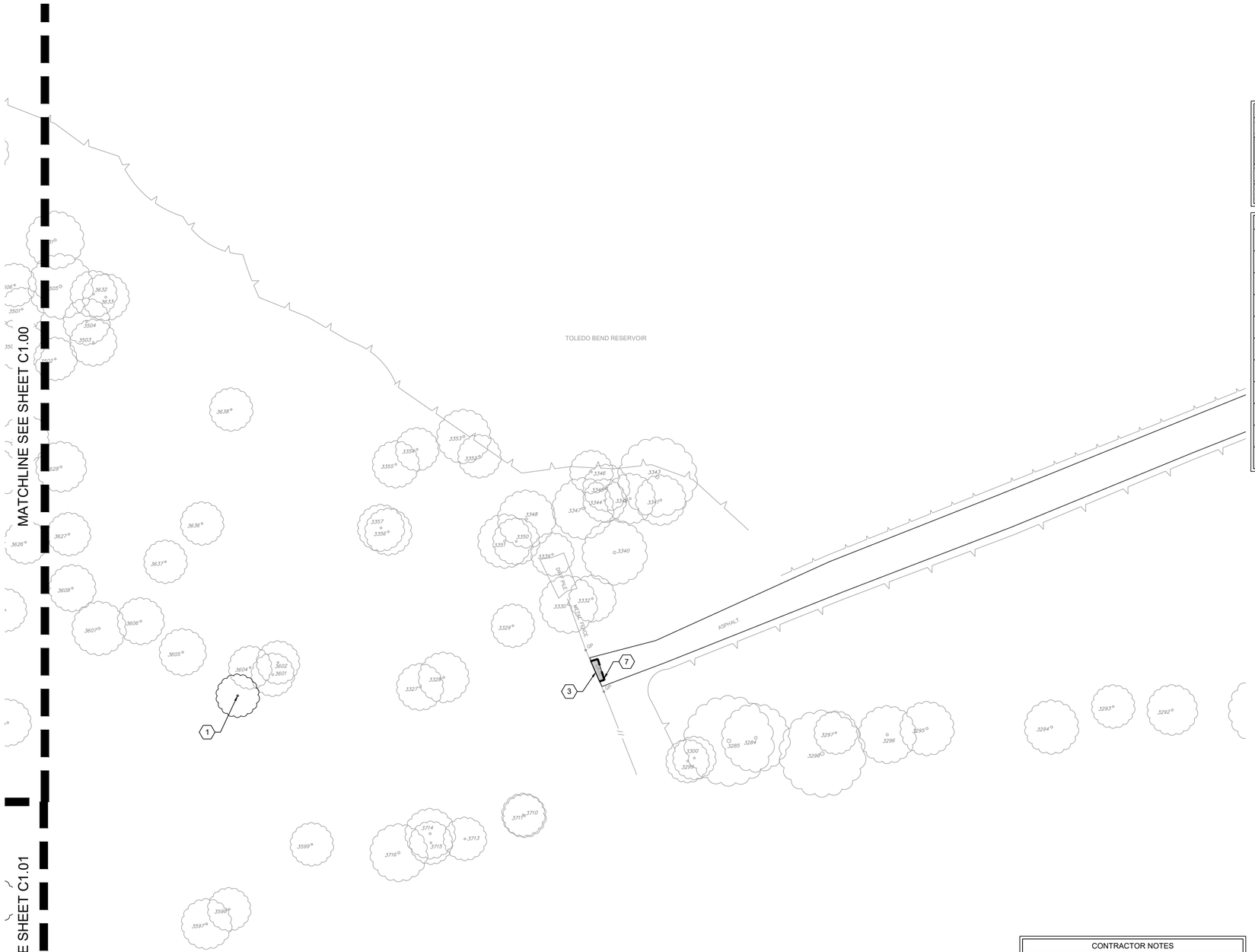

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED
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KEYED NOTES	
1	EX. TREES TO BE REMOVED (TYP.). REF. LANDSCAPE PLANS FOR DETAILS
2	EX. UTILITY POLE TO REMAIN (TYP.)
3	EX. GUY WIRE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION
4	EX. BOLLARD TO BE REMOVED (TYP.)
5	EX. SIGN TO BE RELOCATED BY OWNER (TYP.)
6	EX. CONCRETE COLUMN TO BE REMOVED (TYP.)
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11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA MAP.

13. CONTRACTOR SHALL SUBMIT A SEQUENCING/PHASING PLAN FOR THE PROPOSED STORM SEWER MODIFICATIONS IN THE SCOPE OF THIS PROJECT TO KIMLEY-HORN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE STORM SEWER SEQUENCING/PHASING PLAN SHALL INCLUDE THE PROPOSED MEASURES TO BE IMPLEMENTED BY CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MATCH THE EXISTING DRAINAGE PATTERNS.

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UTILITY COMPANY CONTACTS
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ELECTRIC PROVIDER- DEEP EAST TX CO OP
WATER PROVIDER - BROOKLYN FRESH WATER

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No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DEMOLITION PLAN (3 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C1.02

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C1.2 November 02, 2022 01:49:50pm K:\HOU_LALP\068925100_sra sam collins park\CAD\Sheets\C1.0 - Demo.dwg
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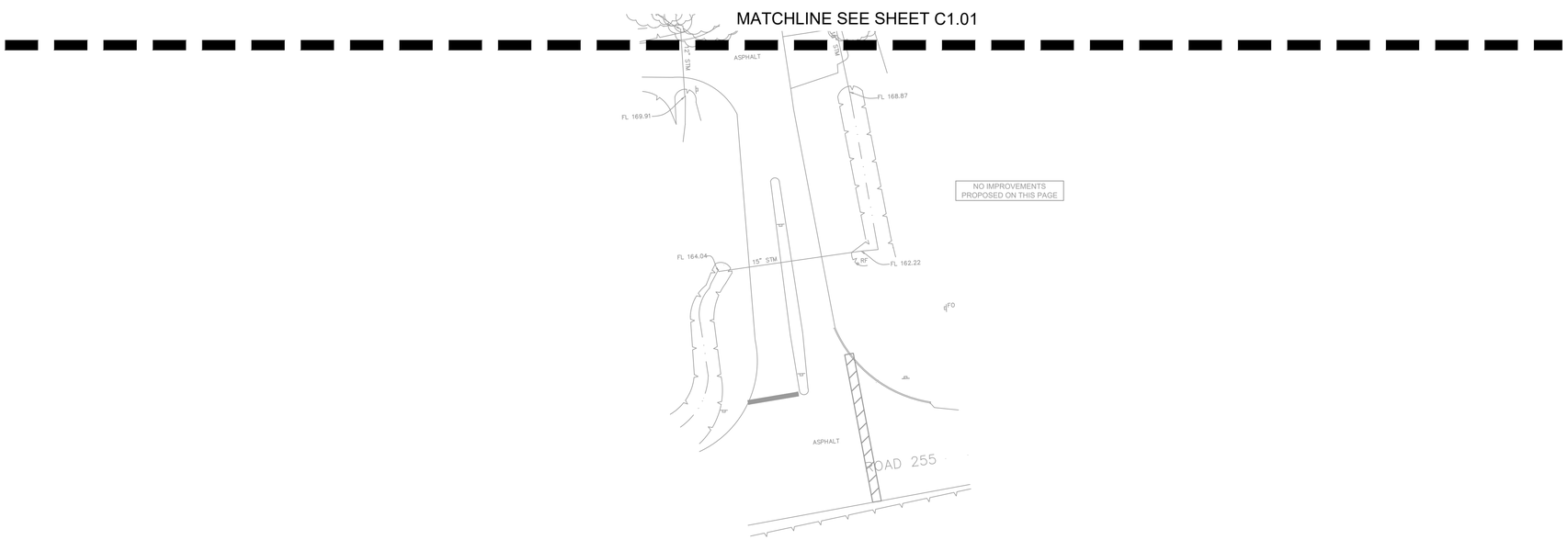

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT.
	EXISTING PAVEMENT TO BE BORED
	EXISTING GRAVEL TO BE REMOVED

KEYED NOTES	
1	EX. TREES TO BE REMOVED (TYP.). REF. LANDSCAPE PLANS FOR DETAILS
2	EX. UTILITY POLE TO REMAIN (TYP.)
3	EX. GUY WIRE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION
4	EX. BOLLARD TO BE REMOVED (TYP.)
5	EX. SIGN TO BE RELOCATED BY OWNER (TYP.)
6	EX. CONCRETE COLUMN TO BE REMOVED (TYP.)
7	FULL DEPTH SAW CUT
8	EX. STORM TO BE REMOVED (TYP.)
9	EX. ADA RAMP STRUCTURE TO BE REMOVED (TYP.)
10	EX. UTILITY POLE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION (TYP.)
11	EX. GATE TO REMAIN (TYP.)

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL TEXAS 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEAR SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THESE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-560-4500
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DEMOLITION PLAN (4 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C1.03

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C1.3 November 02, 2022 01:49:54pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C1.0 - Demo.dwg
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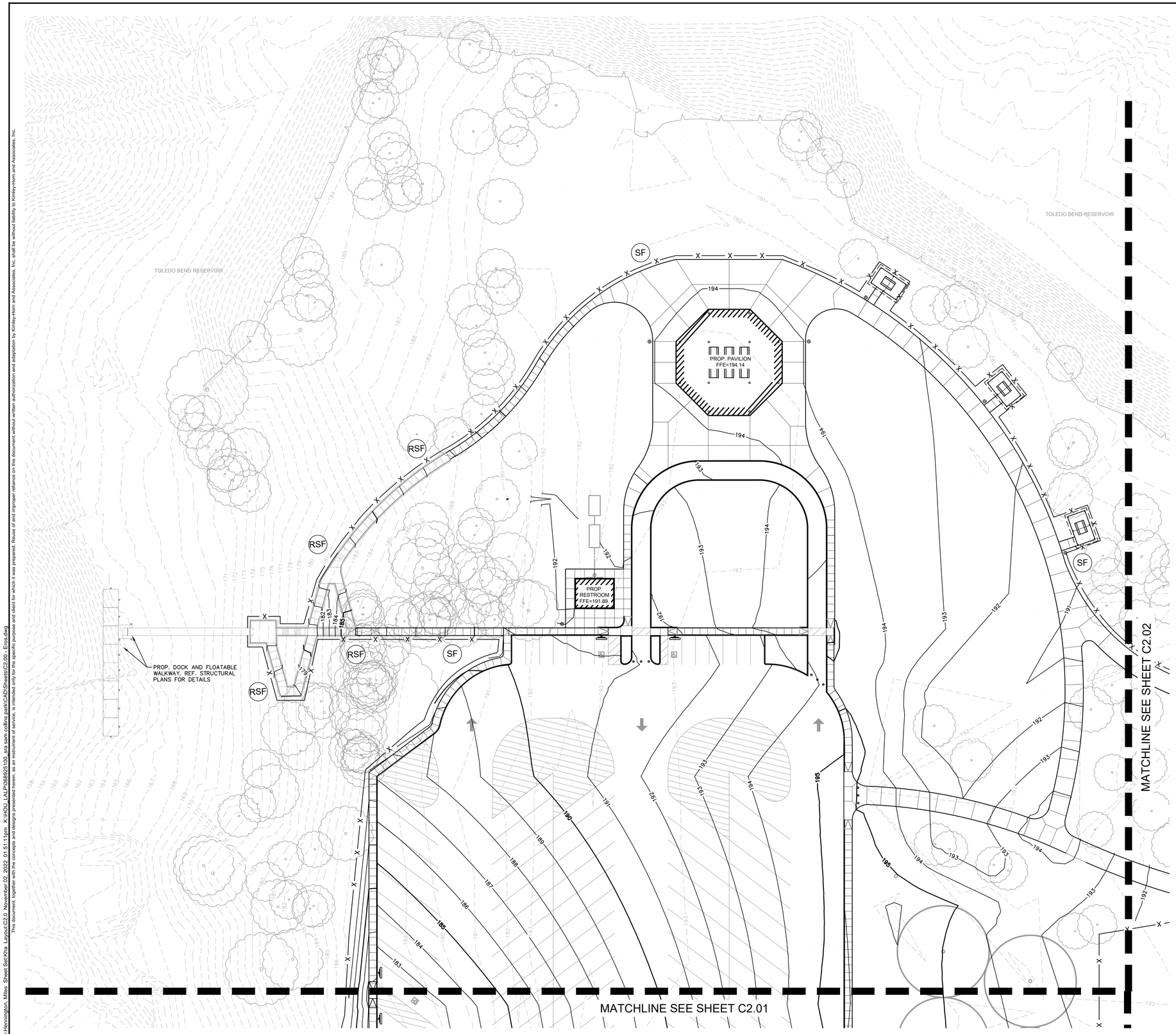

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

EROSION CONTROL NOTES

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3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS.

4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING AND SITE PAVING..

5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

7. CONTRACTOR TO PROVIDE INLET PROTECTION IN PUBLIC ROW ONLY DURING EARTH MOVING ACTIVITIES. CONTRACTOR TO ENSURE PONDING DOES NOT OCCUR IN PUBLIC ROW OR ON ADJACENT PROPERTIES AT ANY TIME DURING CONSTRUCTION.

8. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, THE CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PARKING LOT CONSTRUCTION.

9. CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR ANY AFFECTED INLETS DOWNSTREAM OF THE PROPOSED IMPROVEMENTS, IF NEEDED.

10. THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF CLEARING & SITE PREPARATION, EARTHWORK, PAVING AND LANDSCAPING.

11. SEDIMENTATION BASIN: NEITHER A TEMPORARY NOR PERMANENT SEDIMENTATION BASIN HAS BEEN PROVIDED ON THIS SITE BECAUSE THE SITE IS LESS THAN 10 ACRES IN AREA.

12. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING AND LANDSCAPING.

13. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE OPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION.

14. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.

15. CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL OF NOI, NOT, POSTING OF SITE NOTICES, AND ANY ADDITIONAL INFORMATION OR SUBMITTALS REQUIRED BY TCEQ, EPA, OR LOCAL JURISDICTION.

16. CONTRACTOR TO MAINTAIN NO MORE THAN 10 ACRES OF DRAINAGE TO ANY SINGLE OUTFALL LOCATION DURING CONSTRUCTION.

LEGEND	
—187—	EXISTING CONTOUR ELEVATIONS
187	PROPOSED CONTOUR ELEVATIONS
EROSION DETAILS	
—X—(SF)	SILT FENCE (SEE DETAIL C2.04)
(CE)	CONSTRUCTION ENTRANCE (SEE DETAIL C2.04)
(CW)	CONCRETE WASHOUT (SEE DETAIL C2.04)

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811
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MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

EROSION CONTROL PLAN (1 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C2.00

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C2.0 November 02, 2022 01:51:11pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C2.00 - Eros.dwg
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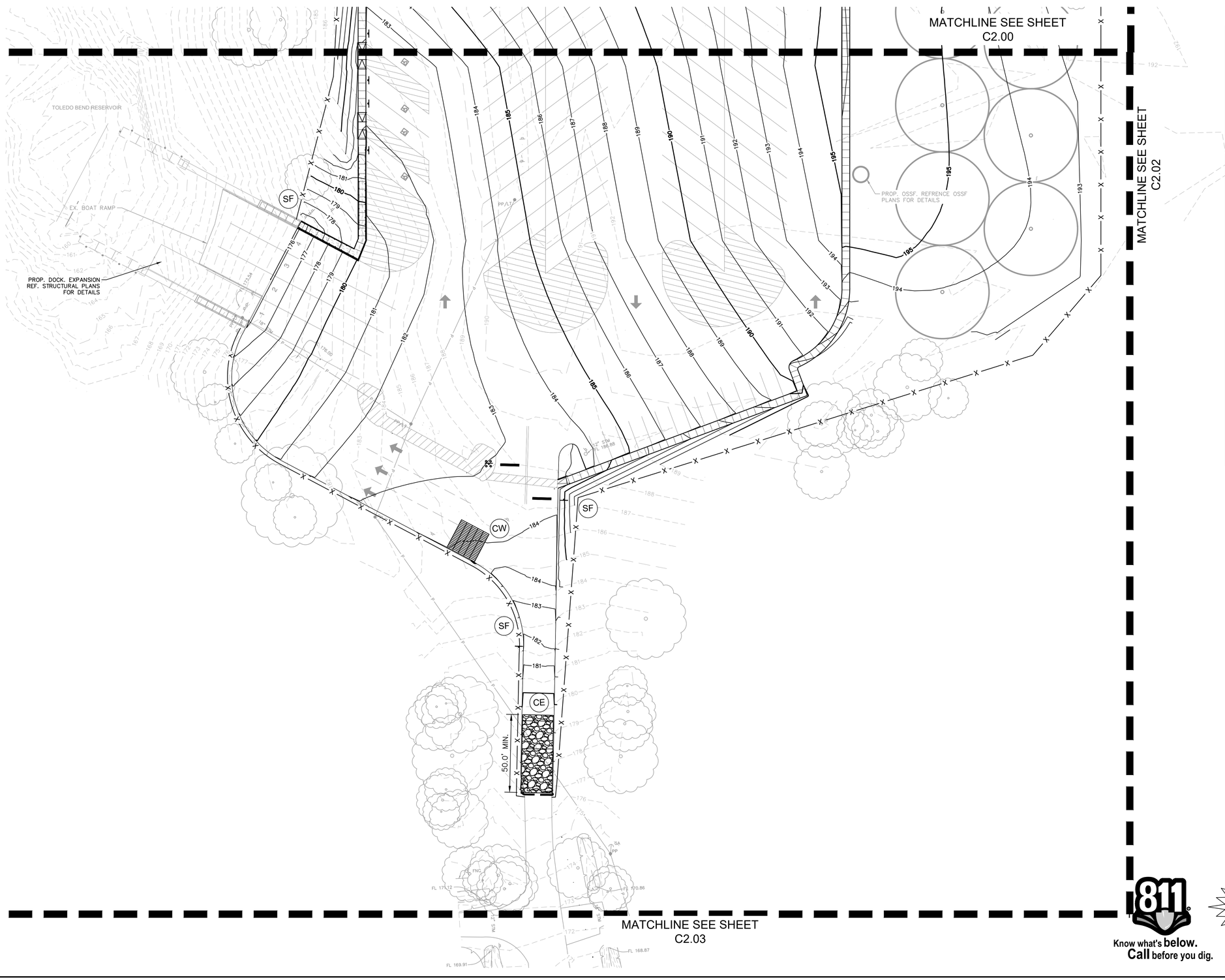

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LEGEND

—187—	EXISTING CONTOUR ELEVATIONS
187	PROPOSED CONTOUR ELEVATIONS

EROSION DETAILS

X SF	SILT FENCE (SEE DETAIL C2.04)
CE	CONSTRUCTION ENTRANCE (SEE DETAIL C2.04)
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KHA PROJECT	068925100
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DRAWN BY	ECL
CHECKED BY	KNM

EROSION CONTROL PLAN (2 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C2.01

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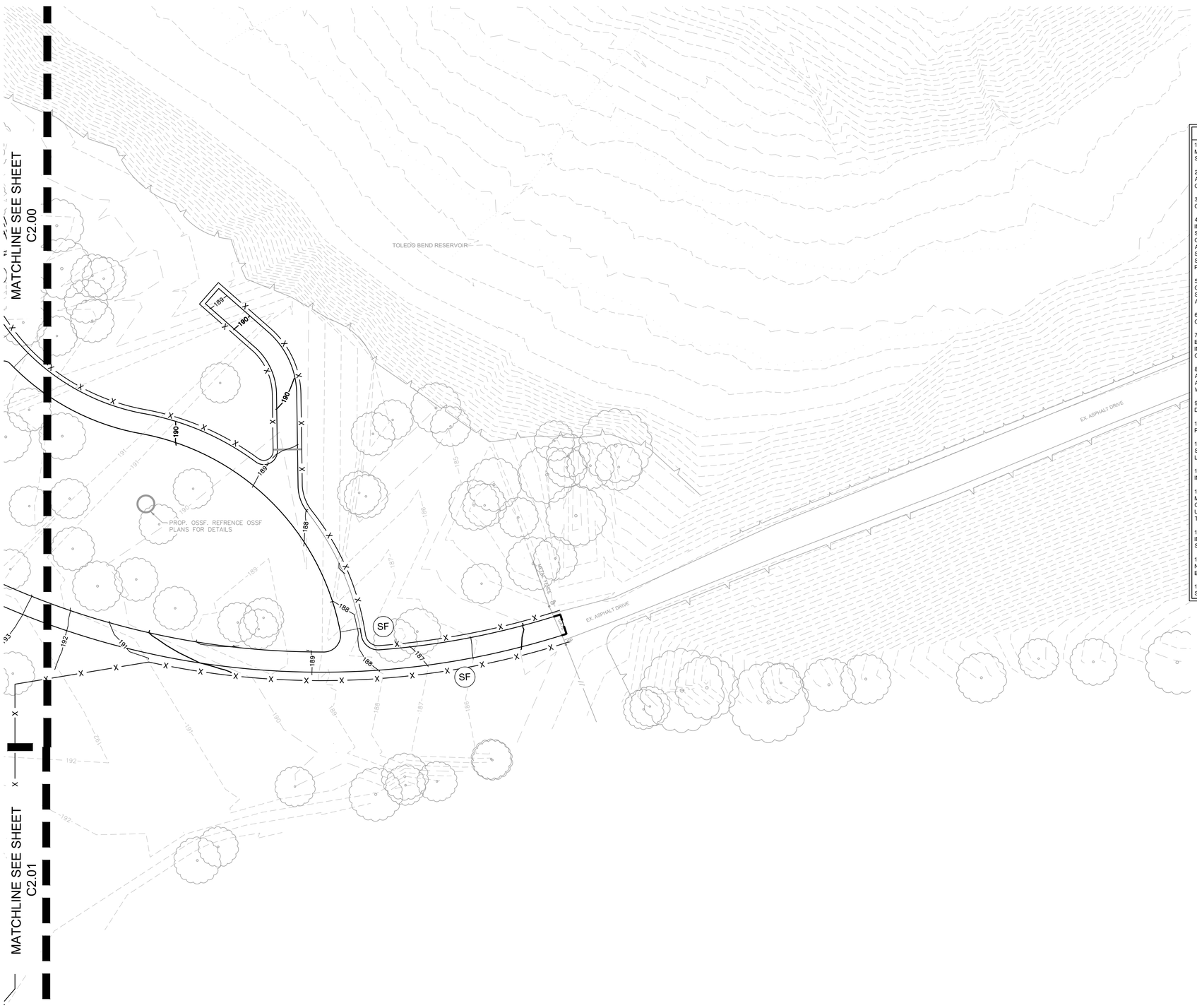

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4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING AND SITE PAVING..

5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

7. CONTRACTOR TO PROVIDE INLET PROTECTION IN PUBLIC ROW ONLY DURING EARTH MOVING ACTIVITIES. CONTRACTOR TO ENSURE PONDING DOES NOT OCCUR IN PUBLIC ROW OR ON ADJACENT PROPERTIES AT ANY TIME DURING CONSTRUCTION.

8. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, THE CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PARKING LOT CONSTRUCTION.

9. CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR ANY AFFECTED INLETS DOWNSTREAM OF THE PROPOSED IMPROVEMENTS, IF NEEDED.

10. THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF CLEARING & SITE PREPARATION, EARTHWORK, PAVING AND LANDSCAPING.

11. SEDIMENTATION BASIN: NEITHER A TEMPORARY NOR PERMANENT SEDIMENTATION BASIN HAS BEEN PROVIDED ON THIS SITE BECAUSE THE SITE IS LESS THAN 10 ACRES IN AREA.

12. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING AND LANDSCAPING.

13. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE OPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION.

14. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.

15. CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL OF NOI, NOT, POSTING OF SITE NOTICES, AND ANY ADDITIONAL INFORMATION OR SUBMITTALS REQUIRED BY TCEQ, EPA, OR LOCAL JURISDICTION.

16. CONTRACTOR TO MAINTAIN NO MORE THAN 10 ACRES OF DRAINAGE TO ANY SINGLE OUTFALL LOCATION DURING CONSTRUCTION.

LEGEND	
—187—	EXISTING CONTOUR ELEVATIONS
187	PROPOSED CONTOUR ELEVATIONS
EROSION DETAILS	
X — SF	SILT FENCE (SEE DETAIL C2.04)
CE	CONSTRUCTION ENTRANCE (SEE DETAIL C2.04)
CW	CONCRETE WASHOUT (SEE DETAIL C2.04)

SWPPP NOTE

ANY OFF-SITE STAGING AREA UTILIZED BY THE OPERATOR OF THIS SITE MUST BE INCLUDED IN THE SWPPP NARRATIVE PLAN AND TO SWPPP SITE PLAN AS REQUIRED BY THE TPDES TEXAS GENERAL PERMIT TXR150000 (SECTION F). ANY SUCH AREA INCLUDED IN THE SWPPP WILL BE TREATED BY THE OPERATOR AS ANY OTHER PART OF THE CONSTRUCTION ACTIVITY FOR THE PURPOSES OF STORM WATER POLLUTION PREVENTION.

811 Know what's below. Call before you dig.

CAUTION!!

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No.	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

EROSION CONTROL PLAN (3 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C2.02

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C2.2 November 02, 2022 01:51:21pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C2.00 - Eros.dwg
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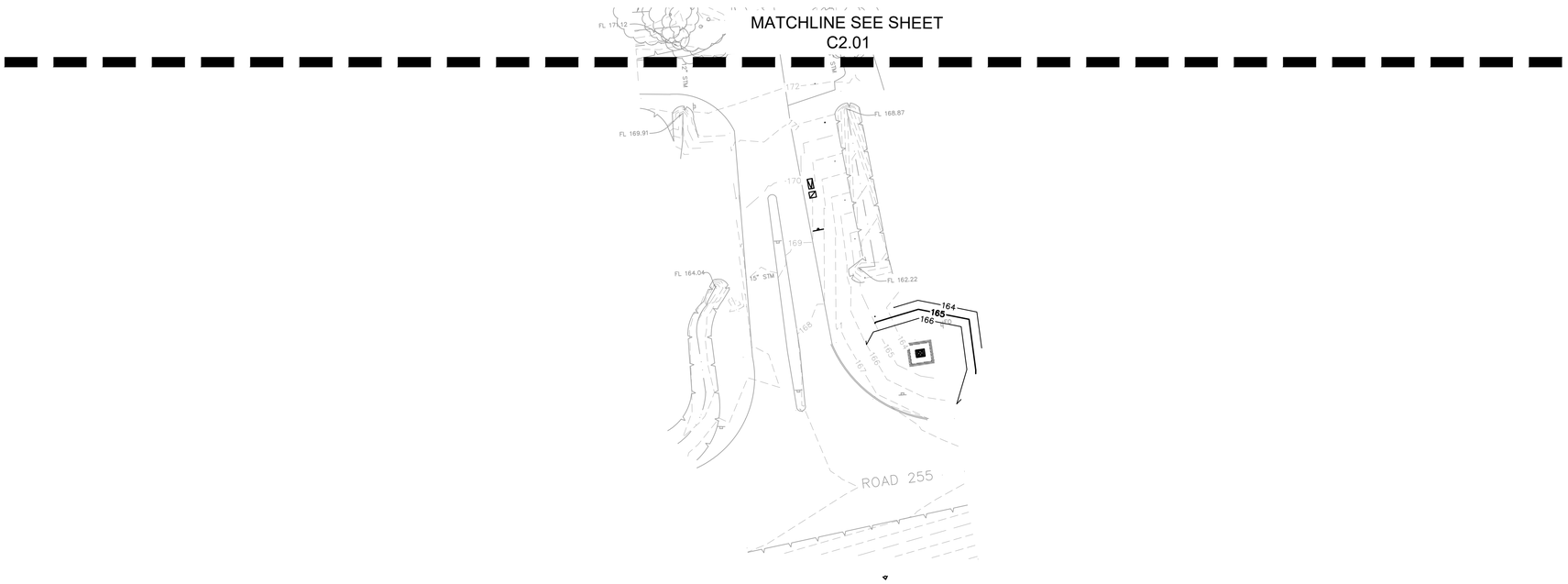

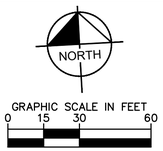

EROSION CONTROL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THIS SITE MAP.

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LEGEND	
— —187— —	EXISTING CONTOUR ELEVATIONS
—187—	PROPOSED CONTOUR ELEVATIONS
EROSION DETAILS	
—X—(SF)	SILT FENCE (SEE DETAIL C2.04)
—X—(RSF)	REINFORCED SILT FENCE (SEE DETAIL C2.04)
(CE)	CONSTRUCTION ENTRANCE (SEE DETAIL C2.04)
(CW)	CONCRETE WASHOUT (SEE DETAIL C2.04)

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Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 936-755-8200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

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CHECKED BY	KNM

EROSION CONTROL PLAN (4 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C2.03

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C2.3 November 02, 2022 01:51:28pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C2.00 - Eros.dwg
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EROSION CONTROL SCHEDULING AND SEQUENCING	
I. ROUGH GRADING	CONSTRUCTION ENTRANCE/EXIT AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED.
II. UTILITY INSTALLATION	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED
III. PAVING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
IV. FINAL GRADING/SOIL STABILIZATION/LANDSCAPING	REFERENCE LANDSCAPE PLANS FOR FINAL STABILIZATION OF SITE. ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.

ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND BURKEVILLE ENGINEERING DEPARTMENT.

IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.

IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION HALL SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER MBP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.

CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.

AFTER FINAL STABILIZATION IS ACHIEVED, CONTRACTOR SHALL CLEAN ON-SITE STORM SEWER SYSTEM.

CONTRACTOR TO INDICATE LOCATIONS OF ALL FUEL DEPOTS, PORT-A-CANS, DUMPSTERS AND DRUMS FILLED WITH ANY CHEMICALS ON THE SWPPP PLAN.

B.M.P. MAINTENANCE SCHEDULE

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

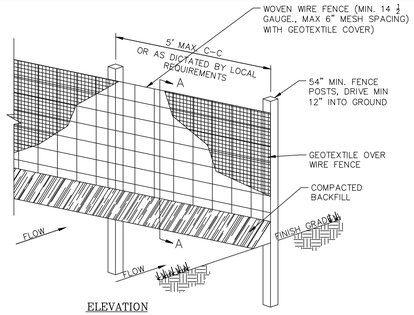
INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

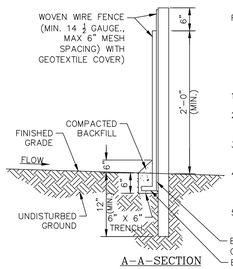
INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

PIPE INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE PIPE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.



ELEVATION



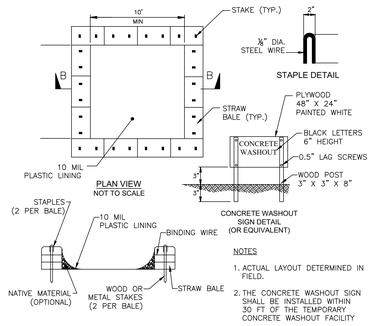
A-A-SECTION

POSTS: STEEL EITHER T OR U TYPE.
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
FABRIC:
1. AMOCO 1198
2. BELTECH 810
3. MIRAFI 130X
4. LING GTF 190
5. SI 915 SC

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

EXTEND WIRE FENCE A MIN. OF 2" INTO TRENCHING
EMBEDDED GEOTEXTILE FABRIC MIN 6" INTO GROUND W/ 6" LAID ALONG BOTTOM OF TRENCH

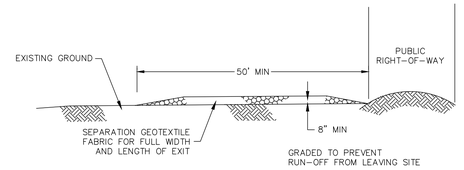
SF SILT FENCE
N.T.S.



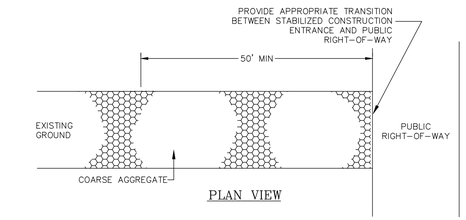
NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY

CW CONCRETE WASHOUT
N.T.S.



PROFILE

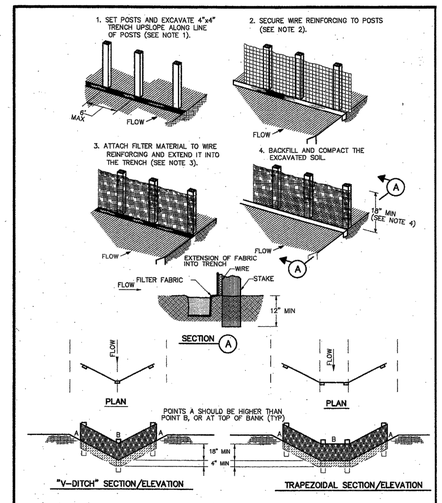


PLAN VIEW

CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
6. SEE COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION EXIT.
7. STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.
8. AGGREGATE SHALL HAVE A MINIMUM DIAMETER OF 2".

CE STABILIZED CONSTRUCTION ACCESS
N.T.S.



CONSTRUCTION NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

REINFORCED FILTER FABRIC BARRIER

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-5700
WWW.KIMLEY-HORN.COM
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EROSION CONTROL DETAILS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C2.04

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C2.4 November 02, 2022 01:51:30pm K:\HOU_LA\P\068925100_sra sam collins park\CAD\Sheets\C2.00 - Eros.dwg
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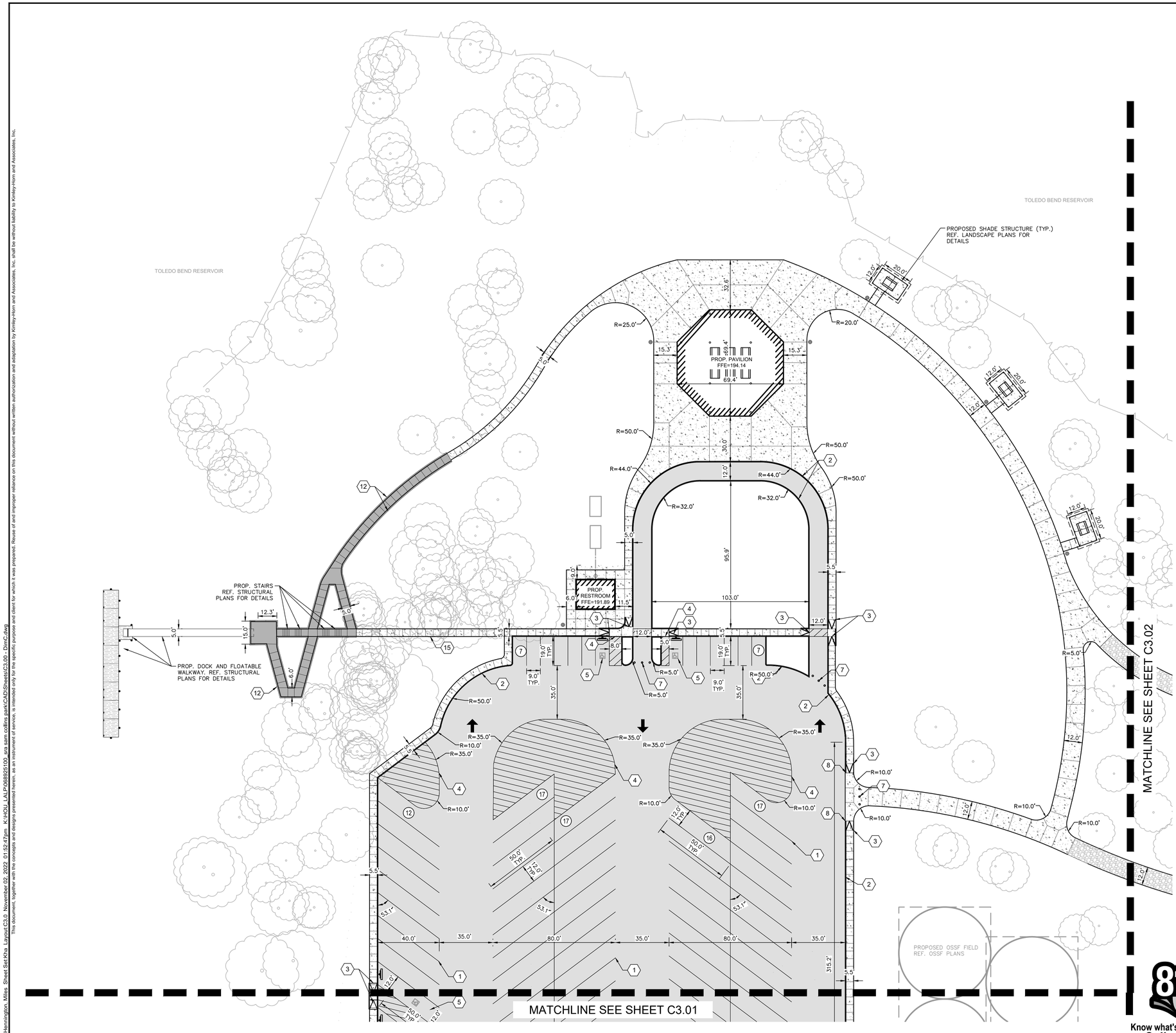

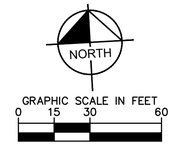

LEGEND	
	PROPERTY LINE
FL	FIRE LANE STRIPING
4	PARKING COUNT
	CURB RAMP NOT IN PUBLIC ROW
	ACCESSIBILITY SPACE
	DIRECTIONAL ARROWS
	PROPOSED SIGNAGE
PAVING MATERIAL LEGEND	
	MEDIUM DUTY CONCRETE PAVEMENT
	SIDEWALK
	GRAVEL TRAIL

KEYED NOTES	
1	PARKING LOT STRIPING; 4" SOLID WHITE STRIPE
2	PROPOSED 6" CURB.
3	ACCESSIBLE RAMP
4	4" SOLID WHITE STRIPING, 2'-0" O.C. @ 45°
5	PROPOSED ACCESSIBILITY SPACE WITH WHEEL STOP AND ADA SIGN
6	PROPOSED GATE. REF. LANDSCAPE PLANS FOR DETAILS
7	PROPOSED REMOVABLE BOLLARDS
8	PROPOSED 0" CURB
9	PROPOSED GUARDRAIL. REF. SHEET C5.01 FOR DETAILS
10	PARKING LOT STRIPING; 4" SOLID YELLOW STRIPE
11	BOAT LAUNCH DIRECTIONAL SIGNAGE
12	PROPOSED RETAINING WALL. REF. STRUCTURAL PLANS FOR DETAILS
13	PROPOSED STOP SIGN. REF. SHEET C8.10 FOR DETAILS
14	PROPOSED 25 MPH SPEED LIMIT SIGN. REF. SHEET C8.10 FOR DETAILS
15	PROPOSED SIDEWALK WITH HANDRAIL. REF. LANDSCAPE PLANS FOR HANDRAIL DETAILS
16	PROPOSED STOP BAR
17	PARKING LOT STRIPING; 4" DASHED WHITE STRIPE

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

2. ALL RADII 2' UNLESS OTHERWISE NOTED.

3. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING POLES AND FIXTURES AND ELECTRICAL PLAN PRIOR TO PLACING PAVEMENT.

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No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DIMENSION CONTROL PLAN (1 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C3.00

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C3.0 November 02, 2022 01:32:47pm K:\HOU_LAL\P068925100_sra sam collins park\CAD\Sheets\C3.00 - DimC.dwg
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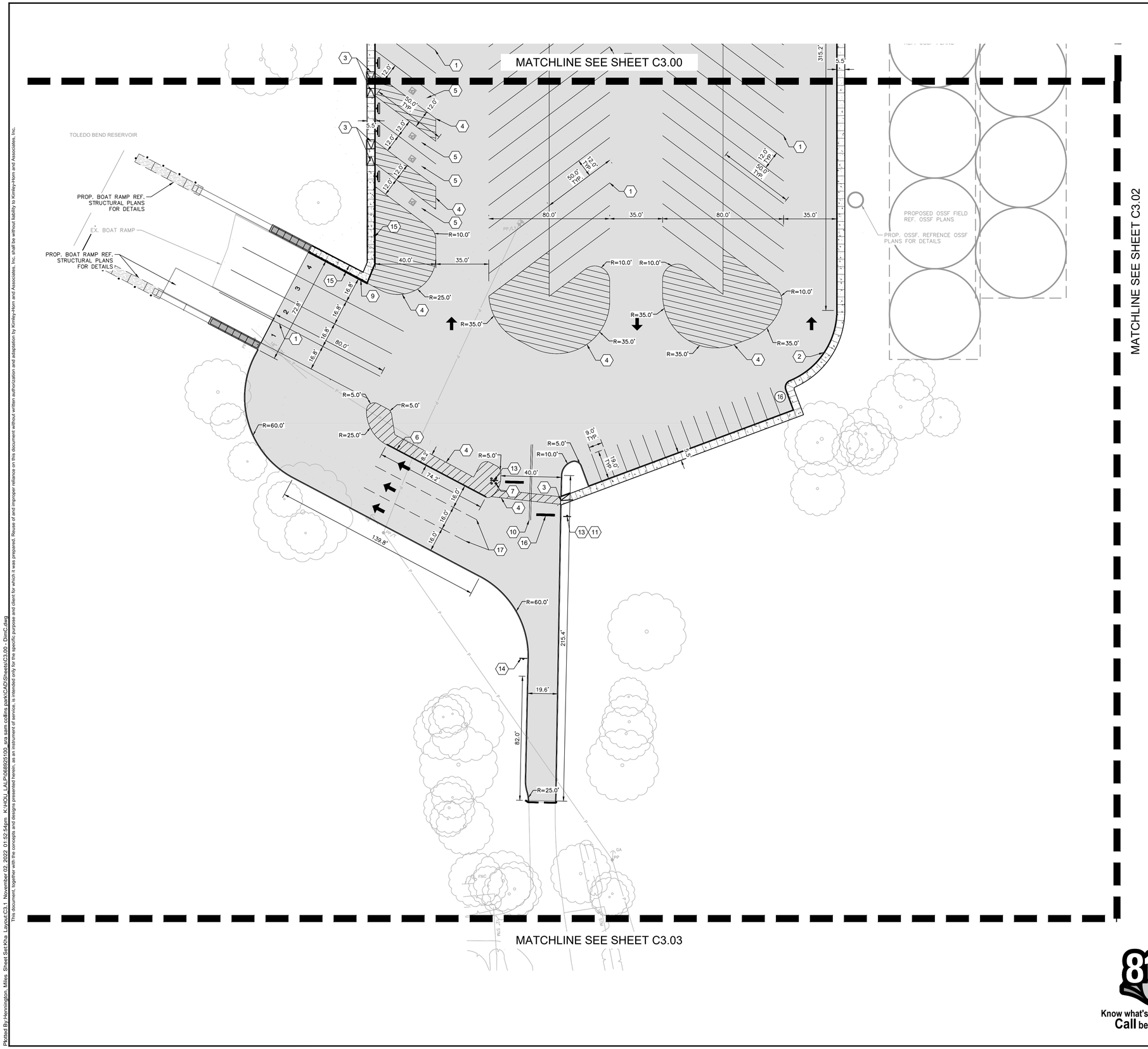

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	PROPERTY LINE
FL	FIRE LANE STRIPING
4	PARKING COUNT
	CURB RAMP NOT IN PUBLIC ROW
	ACCESSIBILITY SPACE
	DIRECTIONAL ARROWS
	PROPOSED SIGNAGE
PAVING MATERIAL LEGEND	
	MEDIUM DUTY CONCRETE PAVEMENT
	SIDEWALK
	GRAVEL TRAIL

KEYED NOTES	
1	PARKING LOT STRIPING; 4" SOLID WHITE STRIPE
2	PROPOSED 6" CURB.
3	ACCESSIBLE RAMP
4	4" SOLID WHITE STRIPING, 2'-0" O.C. @ 45°
5	PROPOSED ACCESSIBILITY SPACE WITH WHEEL STOP AND ADA SIGN
6	PROPOSED GATE. REF. LANDSCAPE PLANS FOR DETAILS
7	PROPOSED REMOVABLE BOLLARDS
8	PROPOSED 0" CURB
9	PROPOSED GUARDRAIL. REF. SHEET C5.01 FOR DETAILS
10	PARKING LOT STRIPING; 4" SOLID YELLOW STRIPE
11	BOAT LAUNCH DIRECTIONAL SIGNAGE
12	PROPOSED RETAINING WALL. REF. STRUCTURAL PLANS FOR DETAILS
13	PROPOSED STOP SIGN. REF. SHEET C8.10 FOR DETAILS
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17	PARKING LOT STRIPING; 4" DASHED WHITE STRIPE

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STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DIMENSION CONTROL PLAN (2 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C3.01

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C3.1 November 02, 2022 01:52:54pm K:\HOU_LAL\068925100_sra sam collins park\CAD\Sheets\C3.00 - DimC.dwg
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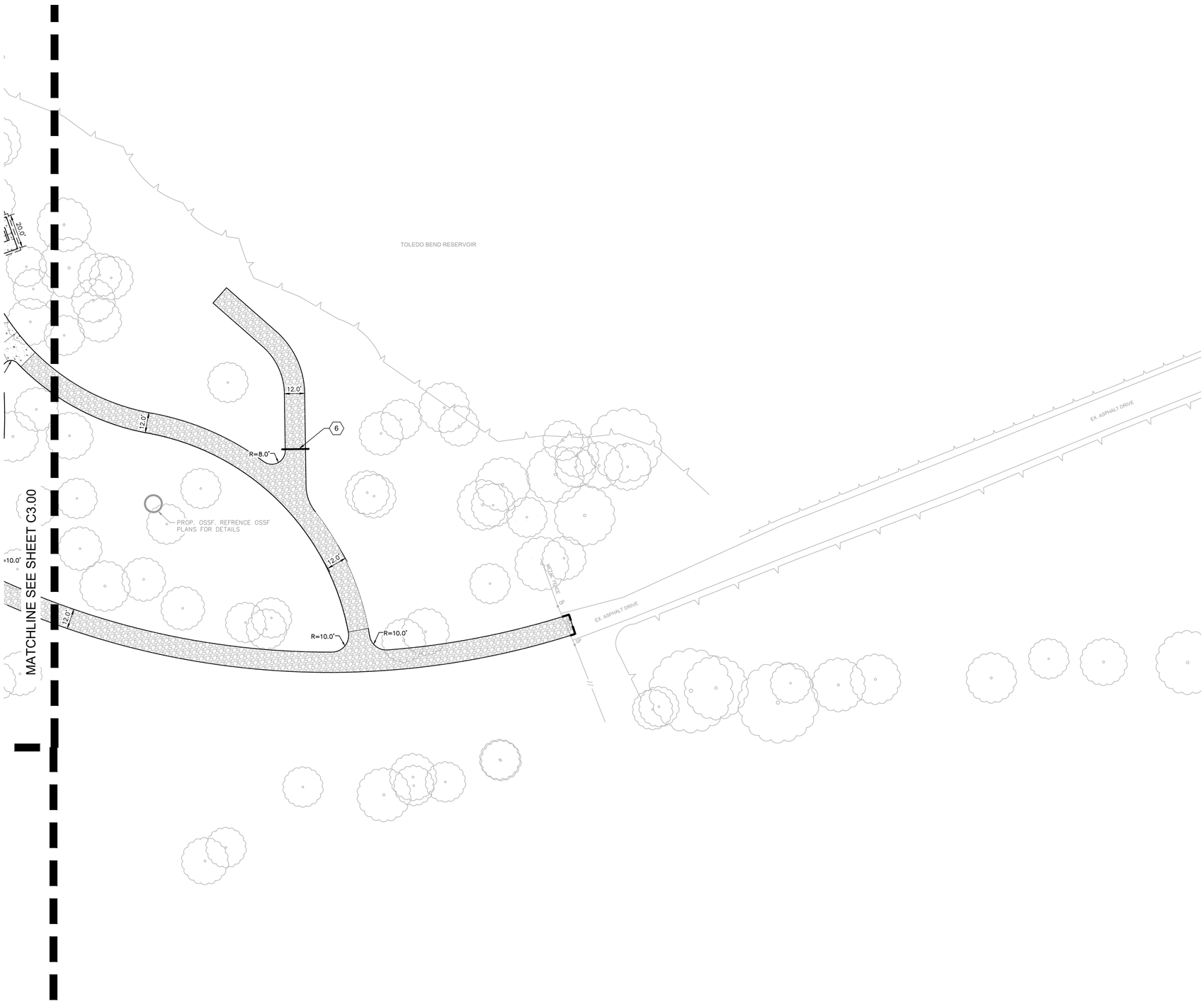

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	PROPERTY LINE
FL	FIRE LANE STRIPING
4	PARKING COUNT
	CURB RAMP NOT IN PUBLIC ROW
	ACCESSIBILITY SPACE
	DIRECTIONAL ARROWS
	PROPOSED SIGNAGE
PAVING MATERIAL LEGEND	
	MEDIUM DUTY CONCRETE PAVEMENT
	SIDEWALK
	GRAVEL TRAIL

KEYED NOTES	
1	PARKING LOT STRIPING; 4" SOLID WHITE STRIPE
2	PROPOSED 6" CURB.
3	ACCESSIBLE RAMP
4	4" SOLID WHITE STRIPING, 2'-0" O.C. @ 45°
5	PROPOSED ACCESSIBILITY SPACE WITH WHEEL STOP AND ADA SIGN
6	PROPOSED GATE. REF. LANDSCAPE PLANS FOR DETAILS
7	PROPOSED REMOVABLE BOLLARDS
8	PROPOSED 0" CURB
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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
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TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT 068925100	
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DIMENSION CONTROL PLAN (3 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C3.02

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C3.2 November 02, 2022 01:52:33pm K:\HOU_LA\P\068925100_sra sam collins park\CAD\Sheets\C3.00 - Dim\C-2.dwg
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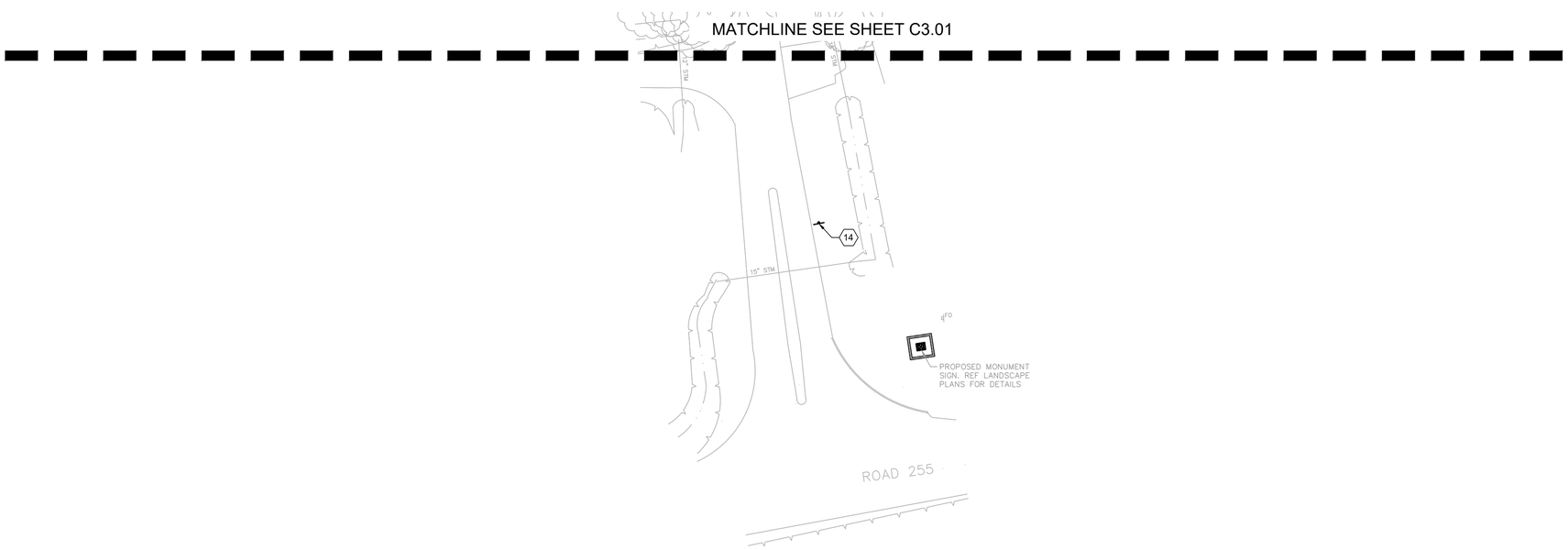

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	PROPERTY LINE
FL	FIRE LANE STRIPING
4	PARKING COUNT
	CURB RAMP NOT IN PUBLIC ROW
	ACCESSIBILITY SPACE
	DIRECTIONAL ARROWS
	PROPOSED SIGNAGE
PAVING MATERIAL LEGEND	
	MEDIUM DUTY CONCRETE PAVEMENT
	SIDEWALK
	GRAVEL TRAIL

KEYED NOTES	
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STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT 068925100	
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DIMENSION CONTROL PLAN (4 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C3.03

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C3.3 November 02, 2022 01:53:34pm K:\HOU_LA\LP\068925100_sra sam collins park\CAD\Sheets\C3.00 - DimC.dwg
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NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

LEGEND

A-1	DRAINAGE AREA NUMBER
0.95	DRAINAGE AREA (ACRES)
8.78	FLOW (CFS) 100-YR ATLAS-14
190	EXISTING CONTOUR ELEVATIONS
190	PROPOSED CONTOUR ELEVATIONS
	DRAINAGE AREA
	FLOW ARROW
	EXTREME EVENT FLOW PATH

No.	DATE	BY

Kimley»Horn

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11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

DRAINAGE AREA MAP

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C4.00

Plotted By:Hennington, Miles Sheet Set:Khe Layout:Layout1 November 02, 2022 01:53:58pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C4.00 - Dam.dwg
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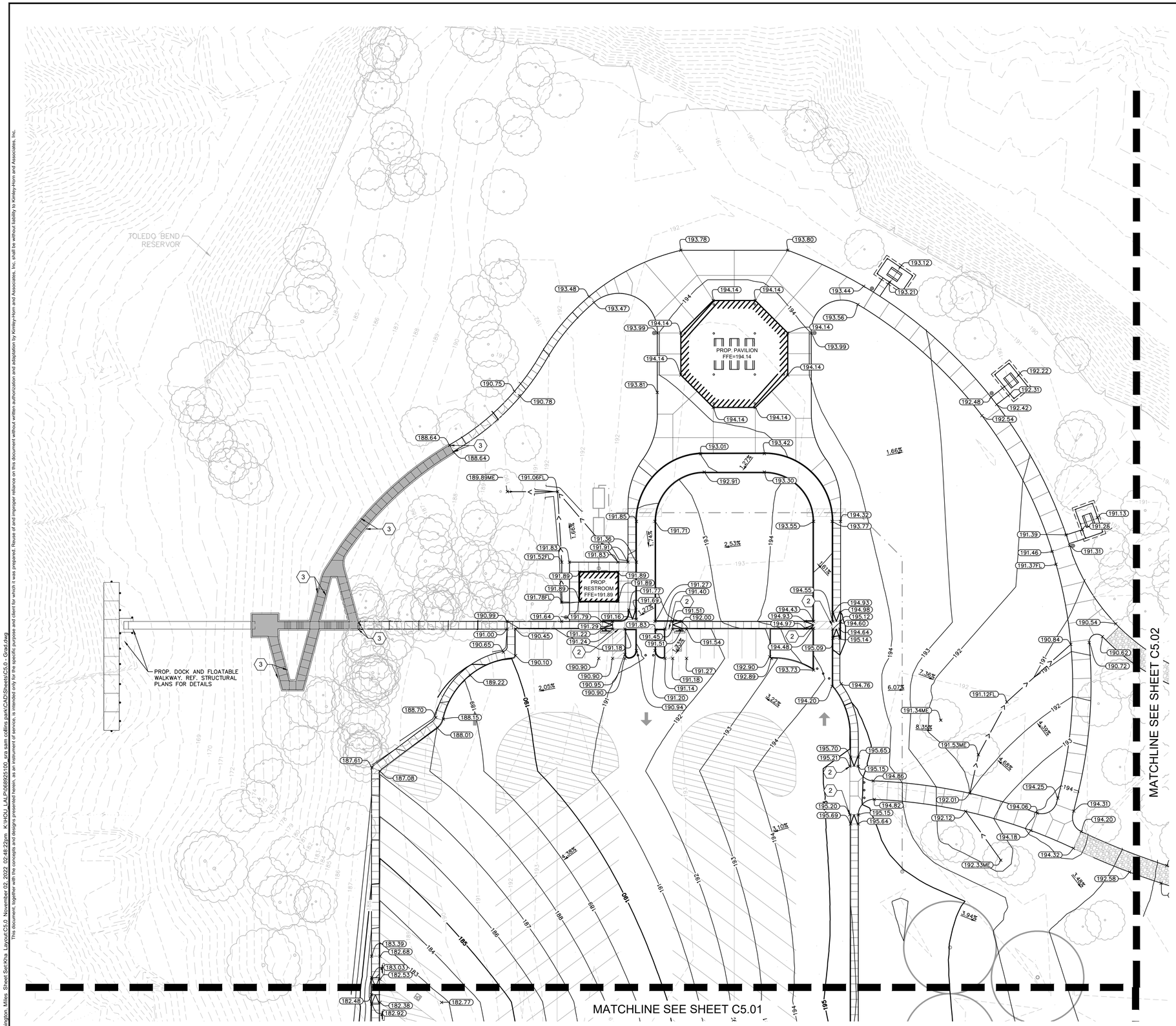

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
130	PROPOSED CONTOURS
130	EXISTING CONTOURS
129.75	PROPOSED SPOT ELEVATION
129.33ME	MATCH EXISTING GRADE
129.55TW	TOP OF WALL
129.55BW	BOTTOM OF WALL
129.55TC	TOP OF CURB
129.55TS	TOP OF SIDEWALK
	HIGH POINT
	PROPOSED STORM INLET
	PROPOSED SWALE
	PROPOSED CURB INLET

KEYED NOTES	
1	PROPOSED SAWCUT LINE (MATCH EX. PAVEMENT ELEVATIONS ALONG THIS LINE)
2	NO CURB
3	PROPOSED PATH WITH RETAINING WALL. REF. STRUCTURAL PLANS FOR GRADING AND DETAILS
4	PROPOSED DROP CURB. REF. DETAIL SHEET C5.01
5	PROPOSED DROP CURB WITH TXDOT RAIL. REF. SHEET C5.01

GENERAL NOTES

1. ALL SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

2. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.

3. ALL SIDEWALKS AND ACCESSIBLE ROUTS, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).

4. THE ACCESSIBLE PARKING AND PASSENGER LOADING AREAS SHALL NOT EXCEED A SLOPE OF 2% (1:50) IN ANY DIRECTION.

5. ALL EXISTING APPURTENANCES ONSITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.

6. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.

7. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

8. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN.

REFER TO BUILDING PLANS FOR DETAILS OF RETAINING WALLS, STAIRS, RAMPS AND EXPOSED FOUNDATIONS INCLUDING VEHICULAR AND PEDESTRIAN BARRIER/RAILING.

AS PART OF THE BASE BID FOR THIS PROJECT, CONTRACTOR SHALL ADHERE TO THE PROJECT GEOTECHNICAL REPORT FOR ALL RECOMMENDATIONS FOR BOTH MATERIALS AND PRACTICE OF INSTALLATION GIVEN IN THE PROJECT GEOTECHNICAL REPORT FOR EARTHWORK, SITE SUBGRADE PREPARATION, BUILDING PAD SUBGRADE PREPARATION, PAVING, AND WET/SOFT SOILS CONDITIONS ALONG WITH ANY OTHER SECTIONS PROVIDED IN THE REPORT.

TITLE: GEOTECHNICAL ENGINEERING REPORT - SRA SAM COLLINS PARK
BY: RINER ENGINEERING, INC.
DATED: APRIL 11, 2022
RINER PROJECT NO. 21-0782

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

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11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

GRADING AND DRAINAGE PLAN (1 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C5.00

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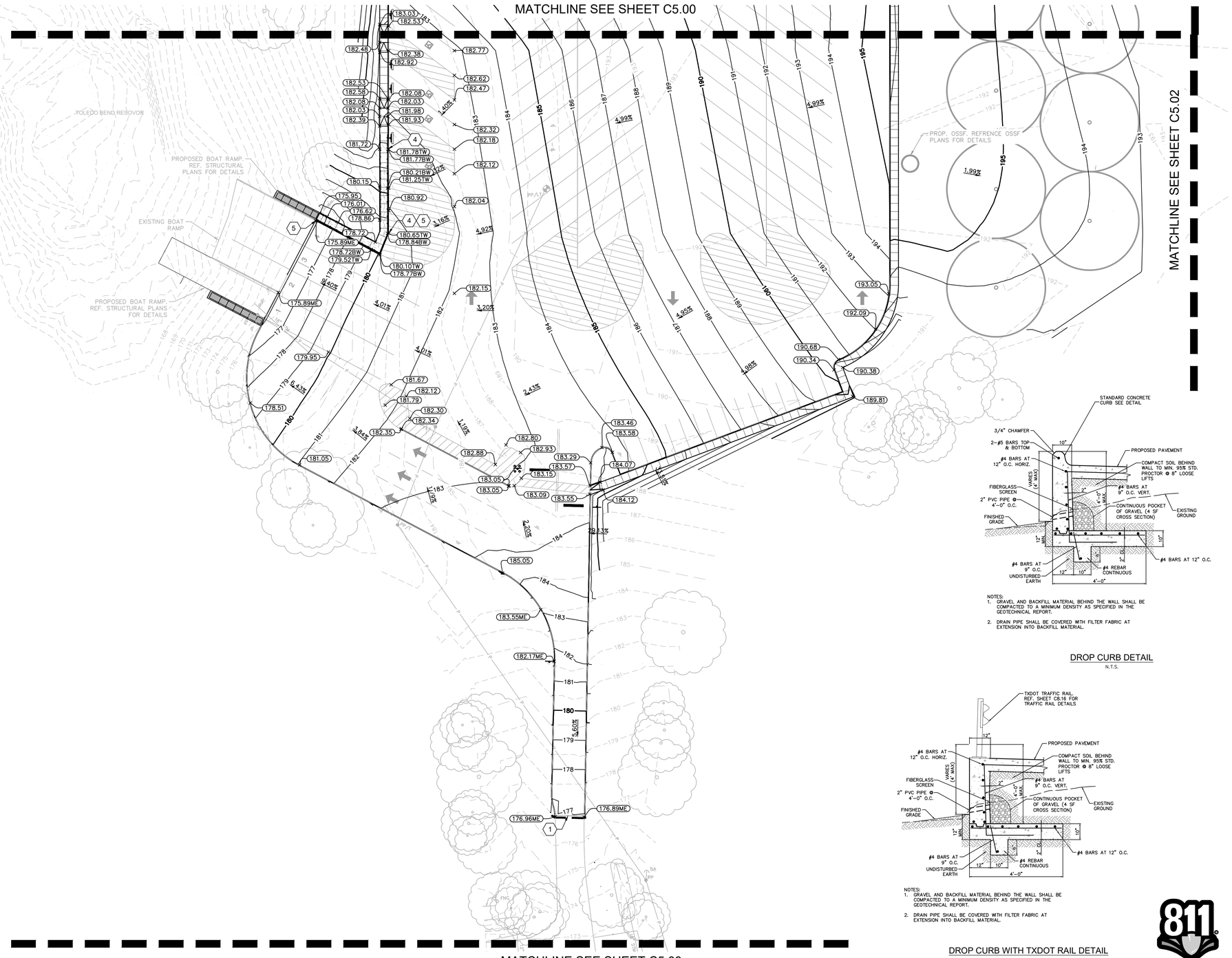

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
130	PROPOSED CONTOURS
130	EXISTING CONTOURS
129.75	PROPOSED SPOT ELEVATION
129.33ME	MATCH EXISTING GRADE
129.55TW	TOP OF WALL
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	PROPOSED CURB INLET

KEYED NOTES	
1	PROPOSED SAWCUT LINE (MATCH EX. PAVEMENT ELEVATIONS ALONG THIS LINE)
2	NO CURB
3	PROPOSED PATH WITH RETAINING WALL. REF. STRUCTURAL PLANS FOR GRADING AND DETAILS
4	PROPOSED DROP CURB. REF. DETAIL SHEET C5.01
5	PROPOSED DROP CURB WITH TXDOT RAIL. REF. SHEET C5.01

GENERAL NOTES

1. ALL SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

2. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.

3. ALL SIDEWALKS AND ACCESSIBLE ROUTS, INCLUDING DRIVEWAY CROSSWALKS, SHALL NOT EXCEED A RUNNING SLOPE OF 5% (1:20) WITHOUT A RAMP, AND SHALL NOT EXCEED A 2% CROSS SLOPE (1:50).

4. THE ACCESSIBLE PARKING AND PASSENGER LOADING AREAS SHALL NOT EXCEED A SLOPE OF 2% (1:50) IN ANY DIRECTION.

5. ALL EXISTING APPURTENANCES ONSITE SHALL BE ADJUSTED TO PROPOSED GRADE AS APPLICABLE.

6. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR BUILDING PAD LIMITS AND PREPARATION REQUIREMENTS.

7. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

8. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN.

AS PART OF THE BASE BID FOR THIS PROJECT, CONTRACTOR SHALL ADHERE TO THE PROJECT GEOTECHNICAL REPORT FOR ALL RECOMMENDATIONS FOR BOTH MATERIALS AND PRACTICE OF INSTALLATION GIVEN IN THE PROJECT GEOTECHNICAL REPORT FOR EARTHWORK, SITE SUBGRADE PREPARATION, BUILDING PAD SUBGRADE PREPARATION, PAVING, AND WET/SOFT SOILS CONDITIONS ALONG WITH ANY OTHER SECTIONS PROVIDED IN THE REPORT.

TITLE: GEOTECHNICAL ENGINEERING REPORT - SRA SAM COLLINS PARK
BY: RINER ENGINEERING, INC.
DATED: APRIL 11, 2022
RINER PROJECT NO: 21-0782

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

NOTES:
1. GRAVEL AND BACKFILL MATERIAL BEHIND THE WALL SHALL BE COMPACTED TO A MINIMUM DENSITY AS SPECIFIED IN THE GEOTECHNICAL REPORT.
2. DRAIN PIPE SHALL BE COVERED WITH FILTER FABRIC AT EXTENSION INTO BACKFILL MATERIAL.

DROP CURB DETAIL
N.T.S.

NOTES:
1. GRAVEL AND BACKFILL MATERIAL BEHIND THE WALL SHALL BE COMPACTED TO A MINIMUM DENSITY AS SPECIFIED IN THE GEOTECHNICAL REPORT.
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DROP CURB WITH TXDOT RAIL DETAIL
N.T.S.

811 Know what's below. Call before you dig.

CAUTION!!

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No.	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

GRADING AND DRAINAGE PLAN (2 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C5.01

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C5.1 November 02, 2022 01:55:13pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C5.0 - Grad.dwg
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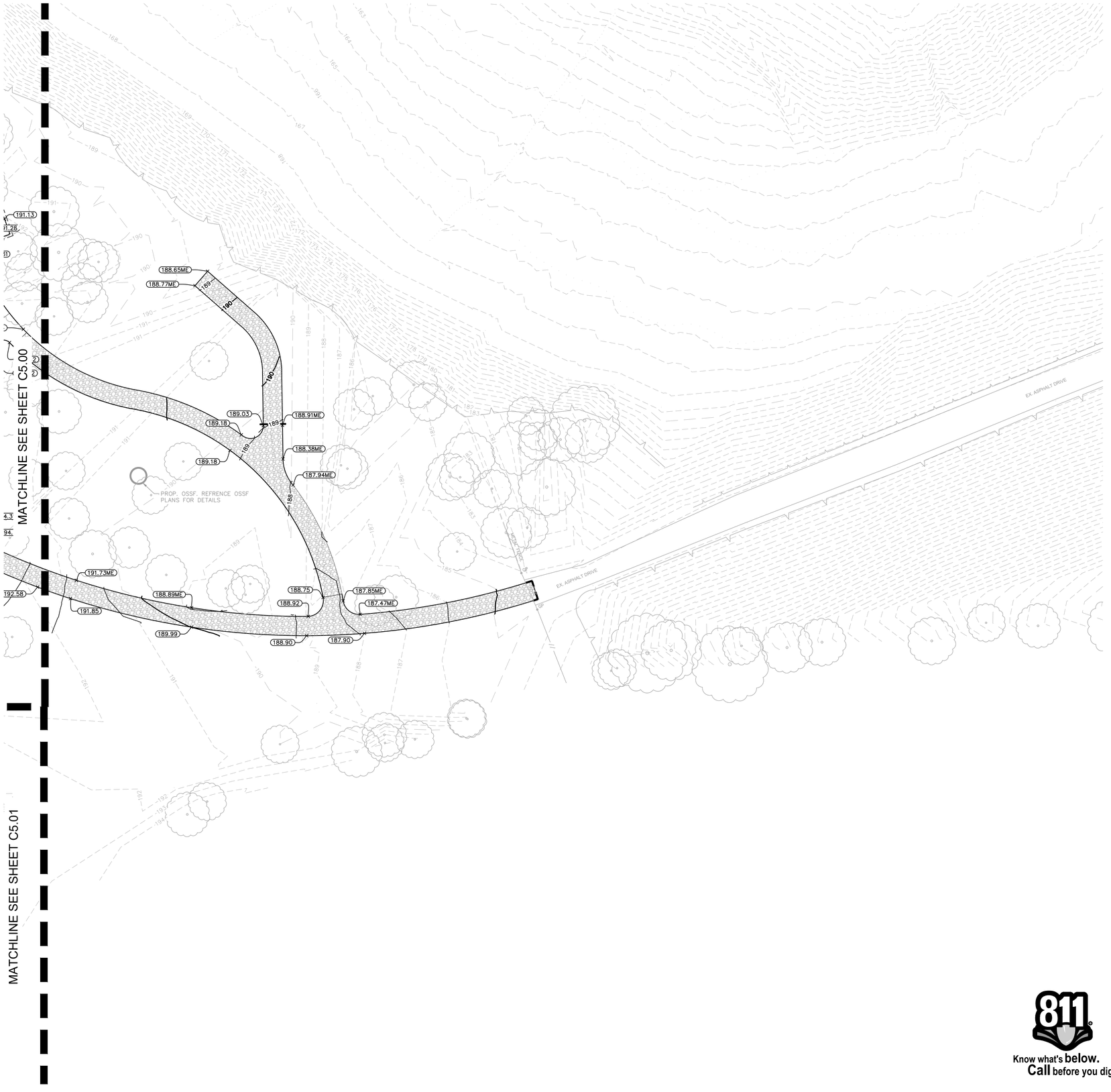

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
130	PROPOSED CONTOURS
130	EXISTING CONTOURS
×129.75	PROPOSED SPOT ELEVATION
×129.33ME	MATCH EXISTING GRADE
×129.55TW	TOP OF WALL
×129.55BW	BOTTOM OF WALL
×129.55TC	TOP OF CURB
×129.55TS	TOP OF SIDEWALK
	HIGH POINT
	PROPOSED STORM INLET
	PROPOSED SWALE
	PROPOSED CURB INLET

KEYED NOTES	
1	PROPOSED SAWCUT LINE (MATCH EX. PAVEMENT ELEVATIONS ALONG THIS LINE)
2	NO CURB
3	PROPOSED PATH WITH RETAINING WALL. REF. STRUCTURAL PLANS FOR GRADING AND DETAILS
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TITLE: GEOTECHNICAL ENGINEERING REPORT - SRA SAM COLLINS PARK
BY: RINER ENGINEERING, INC.
DATED: APRIL 11, 2022
RINER PROJECT NO: 21-0782

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

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No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

GRADING AND DRAINAGE PLAN (3 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C5.02

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C5.2 November 02, 2022 01:55:24pm K:\HOU_LAL\068925100_sra sam collins park\CAD\Sheets\C5.0 - Grad.dwg
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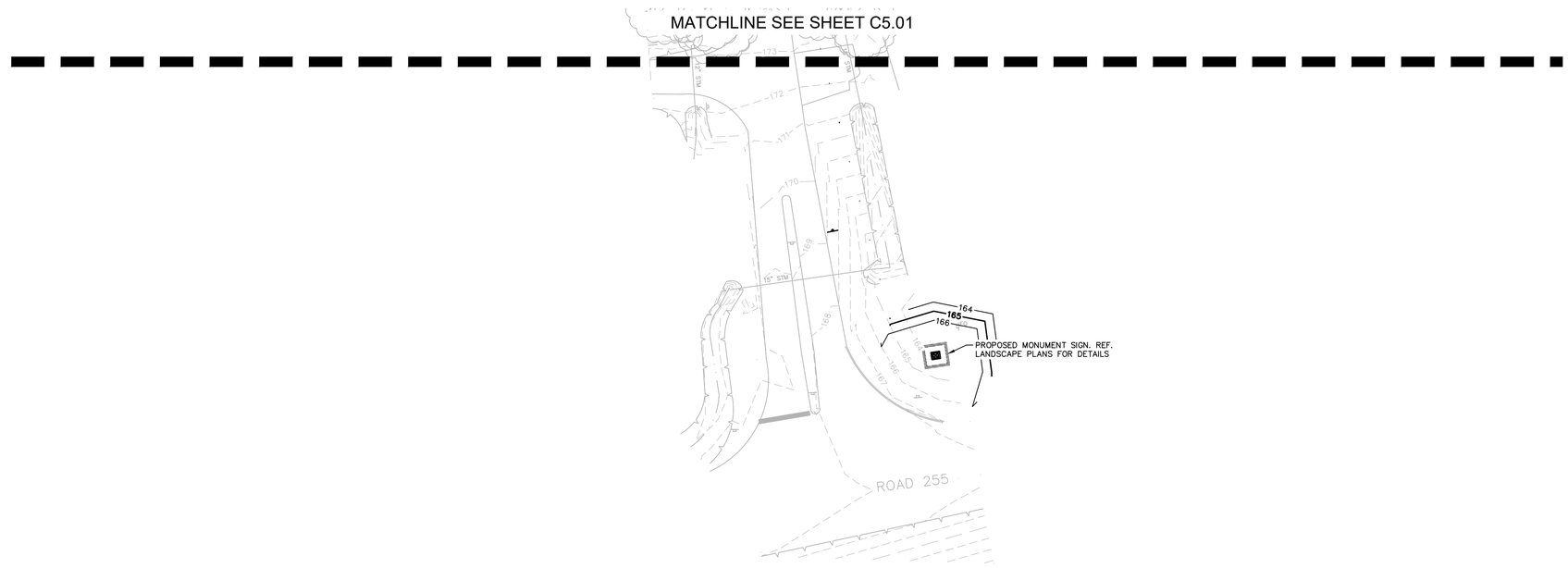

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
130	PROPOSED CONTOURS
130	EXISTING CONTOURS
×129.75	PROPOSED SPOT ELEVATION
×129.33ME	MATCH EXISTING GRADE
×129.55TW	TOP OF WALL
×129.55BW	BOTTOM OF WALL
×129.55TC	TOP OF CURB
×129.55TS	TOP OF SIDEWALK
	HIGH POINT
	PROPOSED STORM INLET
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	PROPOSED CURB INLET

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TITLE: GEOTECHNICAL ENGINEERING REPORT - SRA SAM COLLINS PARK
BY: RINER ENGINEERING, INC.
DATED: APRIL 11, 2022
RINER PROJECT NO: 21-0782

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

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TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
MILES HENNINGTON
139644
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

GRADING AND DRAINAGE PLAN (4 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C5.03

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C5.3 November 02, 2022 01:55:33pm K:\HOU_LAL\P\068925100_sra sam collins park\CAD\Sheets\C5.0 - Grad.dwg
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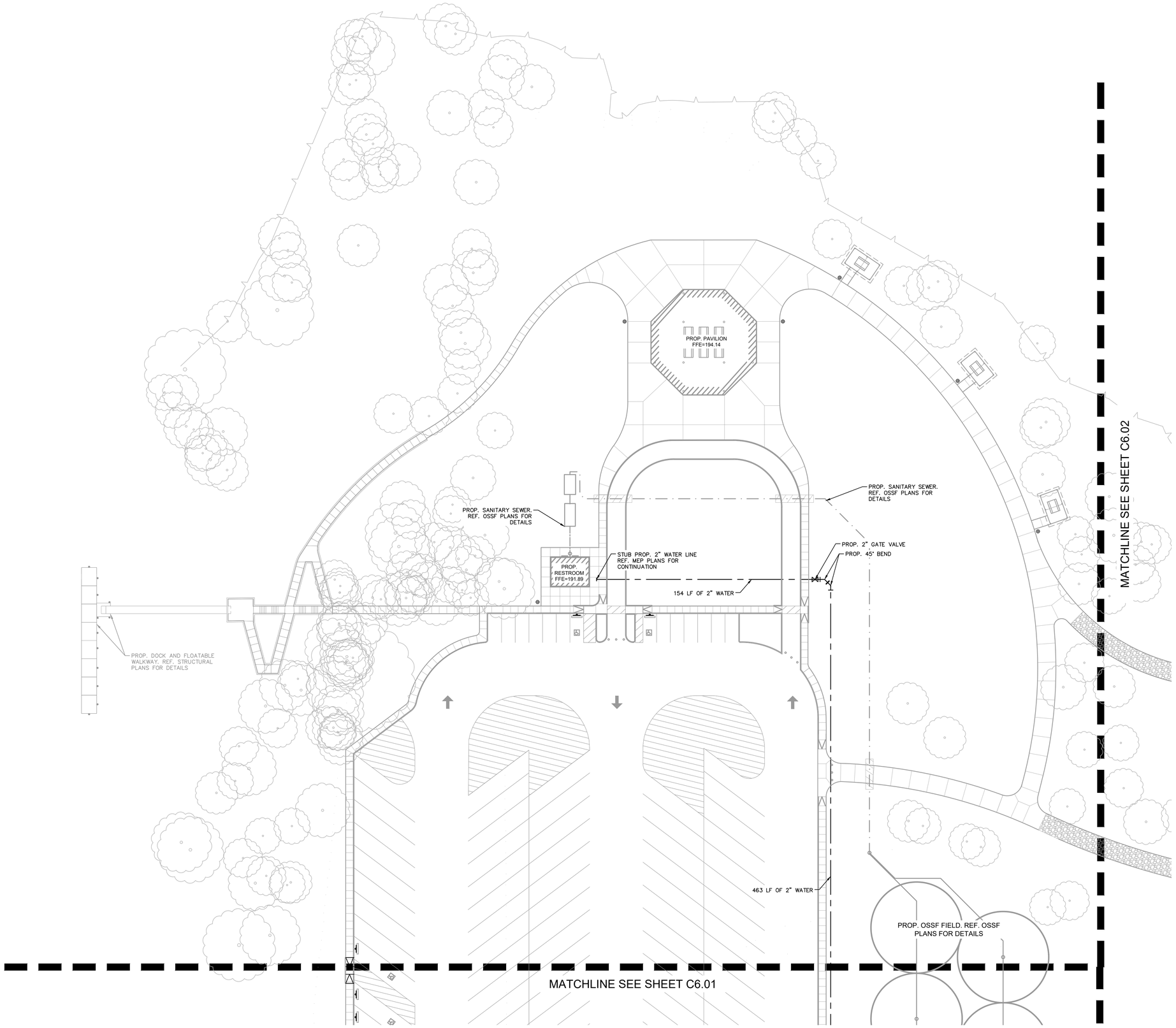

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	PROPERTY LINE
	PROPOSED UTILITY EASEMENT
	EXISTING UTILITY EASEMENT
	PROPOSED STORM LINE
D	PROPOSED STORM MANHOLE
	PROPOSED GRATE INLET
	PROPOSED CURB INLET
	PROPOSED WATER LINE
	PROPOSED SSWR LINE
S	PROPOSED SSWR MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
UGE	PROPOSED UNDERGROUND ELECTRIC
GAS	PROPOSED GAS LINE
COMM	PROPOSED COMMUNICATIONS LINE
OHE	PROPOSED OVERHEAD ELECTRIC
TEL	PROPOSED TELEPHONE LINE
FIB	PROPOSED FIBER OPTIC LINE
	EXISTING SSWR LINE
	EXISTING WATERLINE
	EXISTING STORM SEWER LINE

UTILITY NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

2. CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN FIELD PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

3. ALL WATER AND SEWER LINES AS WELL AS TAPS/CONNECTIONS TO EXISTING PUBLIC WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL MUNICIPALITIES STANDARD SPECIFICATIONS AND DETAILS WITH ALL ADDENDA AND AMENDMENTS THERETO.

4. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.

5. WATER LINES SHALL BE AS FOLLOWS:

A) 3" AND SMALLER = SCHEDULE 40 PVC

B) 4" - 12" = PVC CLASS 150 DR 18, WITH BEDDING AND BACKFILL PER MANUFACTURER RECOMMENDATIONS.

6. SANITARY SEWER PIPES SHALL BE AS FOLLOWS:

A) 4" - 12" = PVC SDR-26, WITH BEDDING AND BACKFILL PER MANUFACTURER RECOMMENDATIONS.

7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATERLINES.

8. WATER LINES CROSSING AND RUNNING PARALLEL TO GRAVITY SEWER LINES AND FORCE MAINS SHALL CONFORM TO THE SEPARATION AND CROSSING REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE § 290.44 PARAGRAPH (E).

9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.

10. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, OR TO BE 2-4" ABOVE THE PROPOSED GRADE ELEVATIONS IN LANDSCAPE AREAS.

11. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS, TESTING AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES.

12. CONTRACTOR SHALL COORDINATE WITH ALL PRIVATE UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

13. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY MEASURES IN ACCORDANCE WITH OSHA AND LOCAL AGENCY STANDARDS FOR ALL EXCAVATIONS.

15. THE SITE CONTRACTOR MUST COORDINATE THE TIMING AND INSTALLATION OF ALL NATURAL GAS LINES WITH THE GENERAL CONTRACTOR FOR THE BUILDING AND MAKE ALL NECESSARY SCHEDULE ARRANGEMENTS FOR TEMPORARY OR PERMANENT GAS LINES PER THE PROJECT SCHEDULE.

16. THE SCOPE OF UTILITIES STUBBED TO THE PROPOSED BUILDING(S) IN THIS PLAN SET SHALL TERMINATE 5' OUTSIDE OF THE BUILDING.

811
Know what's **below.**
Call before you dig.

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STATE OF TEXAS
MILES HENNINGTON
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LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

UTILITY PLAN (1 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C6.00

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C6.0 November 02, 2022 01:56:50pm K:\HOU_LALP\068925100_sra sam collins park\CAD\Sheets\C6.00 - Util.dwg
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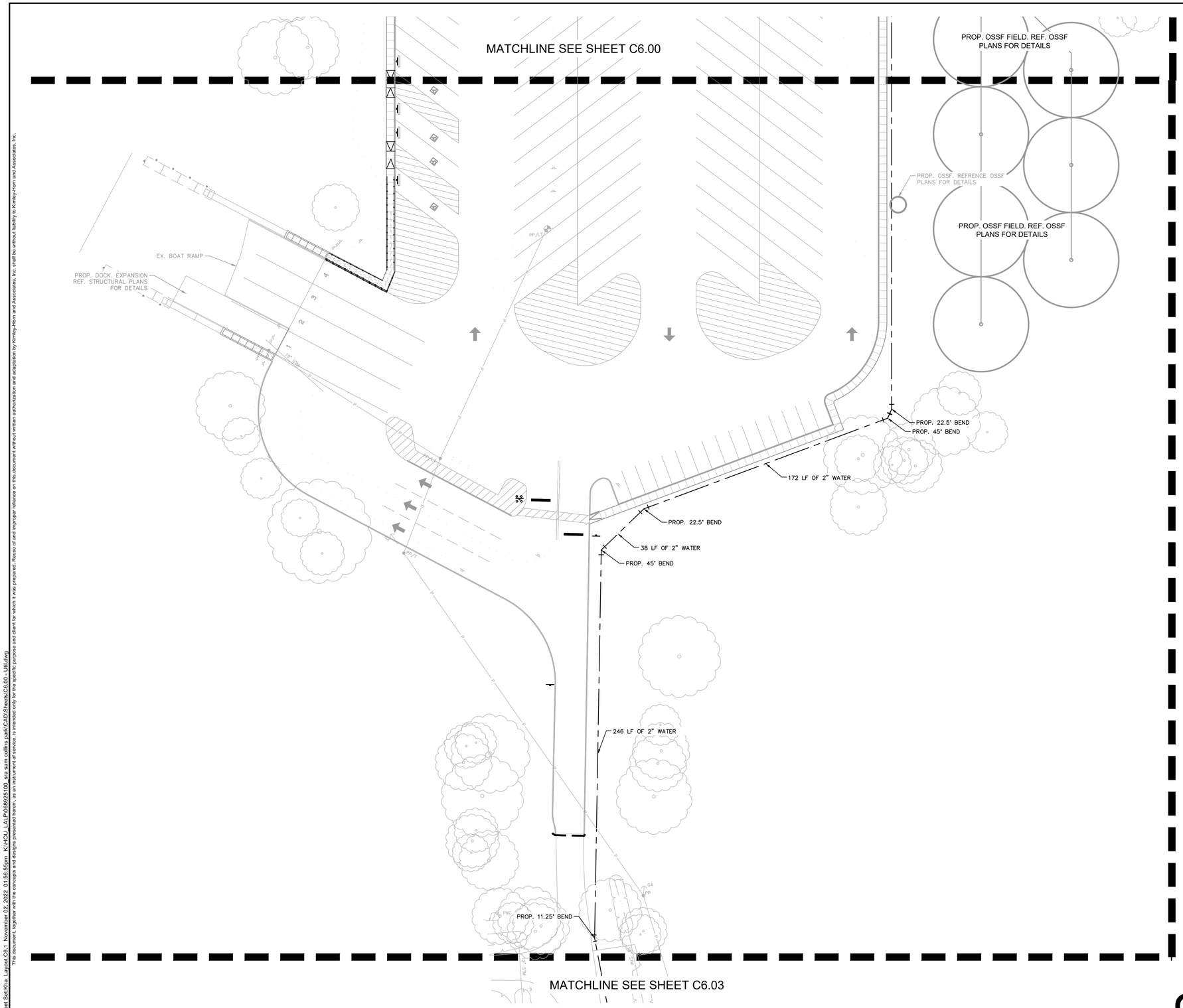

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND	
	PROPERTY LINE
	PROPOSED UTILITY EASEMENT
	EXISTING UTILITY EASEMENT
	PROPOSED STORM LINE
D	PROPOSED STORM MANHOLE
	PROPOSED GRATE INLET
	PROPOSED CURB INLET
	PROPOSED WATER LINE
	PROPOSED SSWR LINE
S	PROPOSED SSWR MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
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Kimley»Horn

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11/01/2022

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SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

UTILITY PLAN (2 OF 4)

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C6.01

Plotted By:Hennington, Miles Sheet Set:Kha Layout:C6.1 November 02, 2022 01:56:55pm K:\HOU_LALP\068925100_sra sam collins park\CAD\Sheets\C6.00 - Util.dwg
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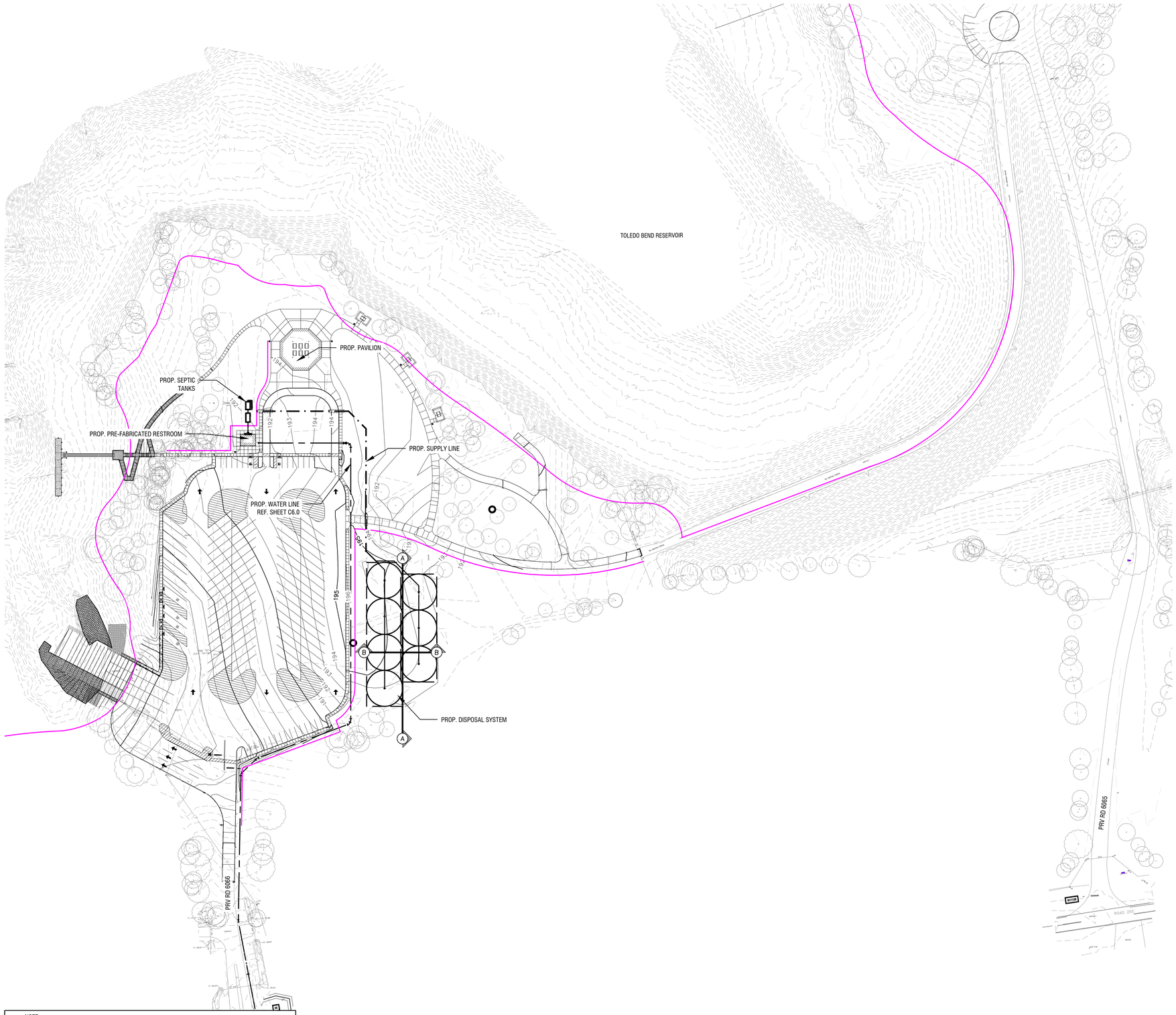

LEGEND

- PROPERTY LINE
- EFFLUENT DISPOSAL LINE
- EFFLUENT LATERAL DISPOSAL
- TCEQ 285 TABLE X SEPARATION OFFSETS
- PROPOSED WASTEWATER LINE
- PROPOSED WATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED WASTEWATER CLEANOUT
- WASTEWATER FLOW DIRECTION
- PROPOSED FIRE HYDRANT
- PROPOSED TAPPING SLEEVE & VALVE
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN INLET
- PROPOSED DRIP FIELD ZONE EXTENTS
- PROPOSED 4" SCH40 PVC SLEEVE
- 598 PROPOSED MAJOR CONTOURS
- 600 PROPOSED MINOR CONTOURS
- 602 EXISTING MAJOR CONTOURS
- 605 EXISTING MINOR CONTOURS
- EXISTING TREES

NOTE:
OSSF IS WITHIN 2,000 FEET OF TOLEDO BEND RESERVOIR.
NO PART OF THE DISPOSAL AREA IS WITHIN 10 FEET OF A POTABLE WATER LINE.

OVERALL OSSF PLAN

Scale: 1:80

NORTH

GRAPHIC SCALE IN FEET
0 40 80 160

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022
STATE OF TEXAS
ELI D. PUENTE
136819
LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

OVERALL OSSF PLAN

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER
C7.00

Plotted By:Puente, Eli; Sheet Set:Kha Layout:Sheet 1 November 02, 2022 10:36:40am K:\HOU_LA\P\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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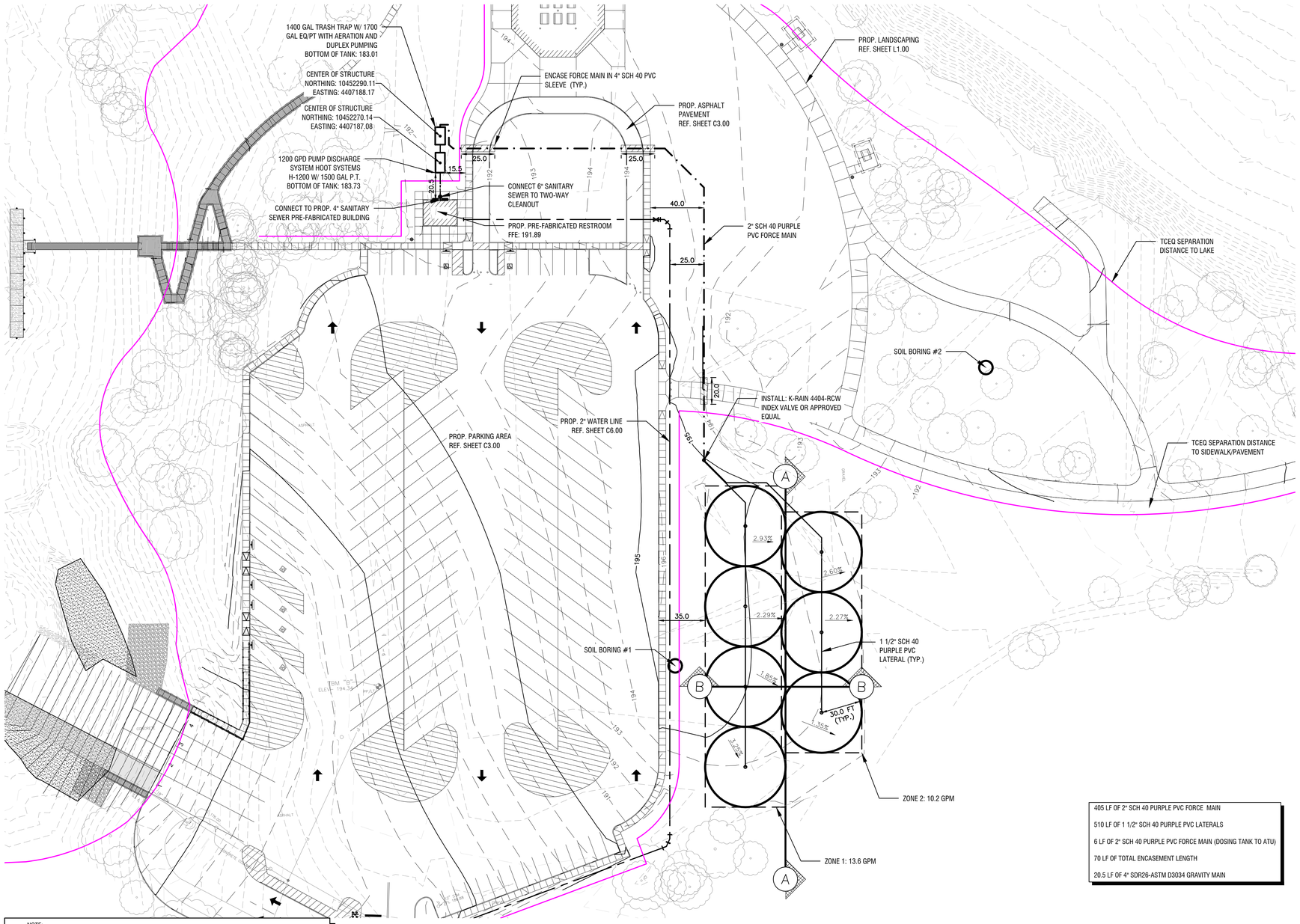


NOTES:

1. ALL ELECTRICAL OR MECHANICAL EQUIPMENT MUST BE ELEVATED AT LEAST 18" ABOVE FLOOD BASE ELEVATION.
2. PUMP TANKS SHALL BE EQUIPPED SUCH THAT WHEN PUMPING, A PORTION OF THE EFFLUENT IS RETURNED BELOW STATIC WATER LEVEL TO INSURE SCOUR OF THE PUMP TANK BOTTOM.
3. PUMP TANKS SHALL BE EQUIPPED WITH DUPLEX CONTROLLER, CHECK VALVE, GATE VALVE, AND BYPASS PIPE.
4. THE PUMP TANKS SHALL BE PROVIDED WITH AN AUDIBLE AND VISIBLE HIGH WATER ALARM.
5. THE POWER CIRCUIT FOR THE ALARM SHALL BE SEPARATE FROM THE POWER CIRCUIT FOR THE PUMP.
6. DUAL PUMPS ARE REQUIRED FOR FLOWS GREATER THAN 1,000 GALLONS PER DAY.
7. A DUAL PUMP SYSTEM SHALL HAVE THE "ALARM ON" LEVEL BELOW THE "SECOND PUMP ON" LEVEL, AND SHALL HAVE A LOCK-ON FEATURE IN THE ALARM CIRCUIT SO THAT ONCE IT IS ACTIVATED IT WILL NOT GO OFF WHEN THE SECOND PUMP DRAWS THE LIQUID LEVEL BELOW THE "ALARM ON" LEVEL.
8. ALL AUDIBLE AND VISIBLE ALARMS SHALL HAVE A MANUAL "SILENCE" SWITCH.
9. THE PUMP SWITCH-GEAR SHALL BE SET SUCH THAT EACH PUMP OPERATES AS THE FIRST PUMP ON AN ALTERNATING BASIS.
10. ALL PUMPS SHALL BE RATED BY THE MANUFACTURER FOR PUMP SEWAGE OR SEWAGE EFFLUENT.
11. CONTRACTOR/INSTALLER SHALL BE RESPONSIBLE OF PROOF OF EQUIVALENCY FOR INSTALLED MATERIALS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA, AND THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND FOR REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE.
13. THE ON SITE SEWAGE FACILITY (OSSF) SHALL BE INSTALLED AND SERVICED BY A TEXAS STATE APPROVED INSTALLER IN ACCORDANCE WITH 30 TEXAS ADMINISTRATIVE CODE 285. ALL ON-SITE SEWER APPURTENANCES SHALL BE APPROVED TCEQ MANUFACTURERS.
14. OSSF DRAIN FIELD AREA CANNOT BE USED FOR GROWING FOOD, GARDENS, ORCHARDS, OR CROPS WHICH MAY BE USED FOR HUMAN CONSUMPTION.
15. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, EMISSIONS, TRENCHING, SHORING, AND SITE SAFETY.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING POWER POLES, MAILBOXES, SPRINKLER SYSTEMS, DRIVEWAY CULVERTS, MANHOLES, TELEPHONE RISERS, WATER VALVES, SIGNS, UTILITY POLES, ETC. DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.
17. A MINIMUM OF 10 FEET OF SEPARATION MUST BE MAINTAINED BETWEEN EXISTING OR PROPOSED WATERLINE AND SEPTIC IMPROVEMENTS.
18. ACTUAL LOCATION OF EFFLUENT LINE MAY BE ADJUSTED TO ACCOMMODATE TREES, SHRUBS, ETC. ANY MAJOR MODIFICATIONS MUST GET APPROVAL FROM THE ENGINEER AND COUNTY AND ALL MINIMUM SEPARATIONS MUST BE MAINTAINED. ANY DISCREPANCIES BETWEEN DESIGN AND ACTUAL FIELD CONDITIONS MUST BE REPORTED TO THE ENGINEER AND COUNTY PRIOR TO COMMENCING THE INSTALLATION OWNER IS RESPONSIBLE FOR THE REMOVAL OF TREES
19. DISPOSAL FIELD SHALL HAVE GRASSY COVER, AND OWNER IS RESPONSIBLE FOR MAINTAINING THIS VEGETATION. THIS AREA SHALL NOT BE UTILIZED FOR AGRICULTURAL PURPOSES.
20. ONSITE SEWAGE PERMIT MUST BE OBTAINED FROM COUNTY PRIOR TO INSTALLATION OF SYSTEM. INSTALLATION OF SYSTEM MUST BE PERFORMED BY LICENSED INSTALLER. NO COMPONENT OF THIS SYSTEM IS TO BE COVERED UNTIL APPROVED BY COUNTY.
21. ALL ELECTRICAL WIRING SHALL CONFORM TO THE REQUIREMENTS THE NATIONAL ELECTRIC CODE (1999) OR UNDER ANY OTHER STANDARDS APPROVED BY THE EXECUTIVE DIRECTOR. ALL EXTERNAL WIRING SHALL BE INSTALLED IN APPROVED, RIGID, NON-METALLIC GRAY CODE ELECTRICAL CONDUIT. THE CONDUIT SHALL BE BURIED ACCORDING TO THE REQUIREMENTS IN THE NATIONAL ELECTRICAL CODE AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES. ALL ELECTRICAL COMPONENTS SHALL HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION FROM THE PLACE WHERE THE ELECTRICAL DEVICE IS BEING SERVICED. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.
22. SPRINKLER OPERATION MUST BE CONTROLLED BY A COMMERCIAL IRRIGATION TIMER PER TCEQ 285.33(d)(2)(G)

LEGEND

- PROPERTY LINE
- EFFLUENT DISPOSAL LINE
- EFFLUENT LATERAL DISPOSAL
- TCEQ 285 TABLE X SEPARATION OFFSETS
- PROPOSED WASTEWATER GRAVITY LINE
- PROPOSED WATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED WASTEWATER CLEANOUT
- WASTEWATER FLOW DIRECTION
- PROPOSED FIRE HYDRANT
- PROPOSED TAPPING SLEEVE & VALVE
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN INLET
- PROPOSED DRIP FIELD ZONE EXTENTS
- PROPOSED 4" SCH40 PVC SLEEVE
- 598 PROPOSED MAJOR CONTOURS
- 600 PROPOSED MINOR CONTOURS
- 602 EXISTING MAJOR CONTOURS
- 605 EXISTING MINOR CONTOURS
- EXISTING TREES

405 LF OF 2" SCH 40 PURPLE PVC FORCE MAIN

510 LF OF 1 1/2" SCH 40 PURPLE PVC LATERALS

6 LF OF 2" SCH 40 PURPLE PVC FORCE MAIN (DOSING TANK TO ATU)

70 LF OF TOTAL ENCASEMENT LENGTH

20.5 LF OF 4" SDR26-ASTM D3034 GRAVITY MAIN

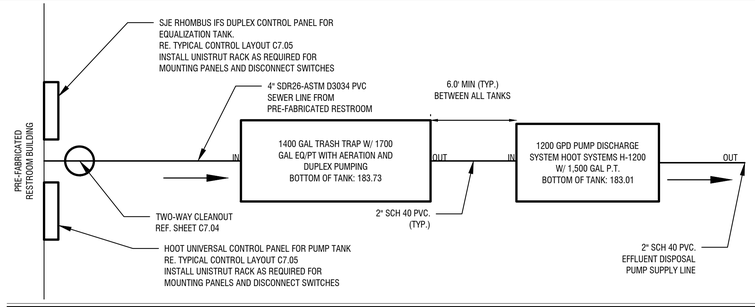
NOTE:
OSSF IS WITHIN 2,000 FEET OF TOLEDO BEND RESERVOIR.
NO PART OF THE DISPOSAL AREA IS WITHIN 10 FEET OF A POTABLE WATER LINE.

TREATMENT & DISPOSAL SYSTEM PLAN

Scale: 1:40

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80



*NOTE: REFERENCE ELECTRICAL SHEETS FOR POWER AND VOLTAGE INFORMATION. IN ADDITION TO EQUIPMENT ATTACHED TO THE BUILDING, CONDUIT SHALL BE ROUTED TO K-RAIN 4404-RCW INDEX VALVE FOR CONTROL WIRING.

TANK PLAN VIEW

Scale: 1:5

NORTH

No.	DATE	BY

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PHONE: 281-560-4500
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022
STATE OF TEXAS
ELI D. PUENTE
136819
LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

TREATMENT AND DISPOSAL SYSTEM PLAN

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C7.01

Plotted By-Puente, Eli Sheet Set:Kha Layout:Sheet 2 November 02, 2022 10:37:38am K:\HOU_LA\P\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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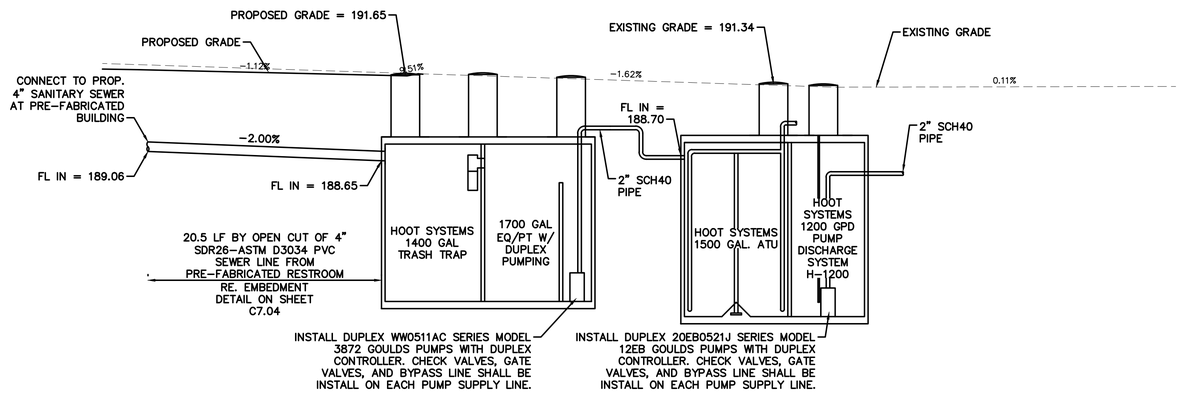
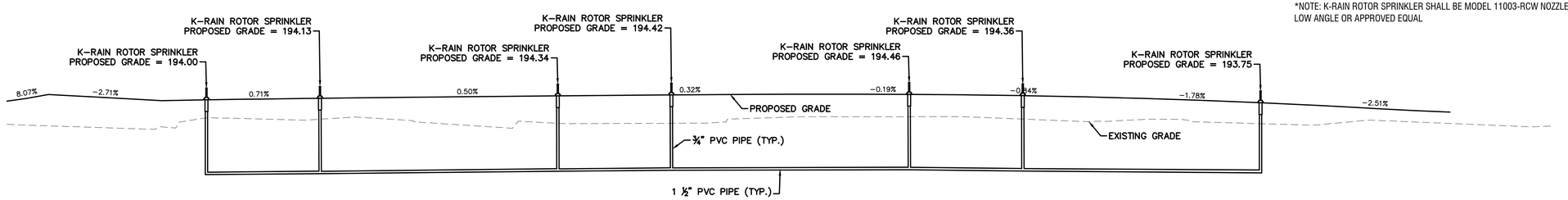
*NOTE: TANK RISERS TO EXTEND TO GROUND SURFACE AND COMPLY WITH SECONDARY ACCESS CONTROL PER 30 TAC CHAPTER 285.



TANK CROSS SECTION

SCALE: 1:5

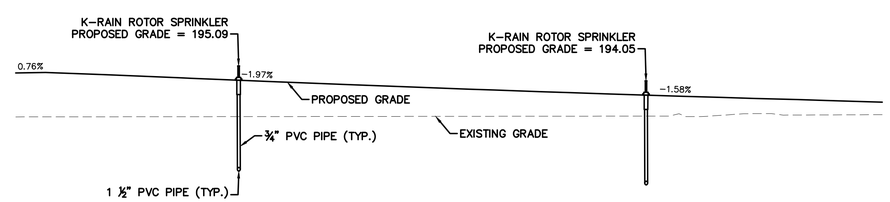
*NOTE: K-RAIN ROTOR SPRINKLER SHALL BE MODEL 11003-RCW NOZZLE #4 LOW ANGLE OR APPROVED EQUAL



SPRAY FIELD CROSS SECTION A

NTS

*NOTE: K-RAIN ROTOR SPRINKLER SHALL BE MODEL 11003-RCW NOZZLE #4 LOW ANGLE OR APPROVED EQUAL



SPRAY FIELD CROSS SECTION B

NTS

No.	DATE	BY

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PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022
STATE OF TEXAS
ELI D. PUENTE
136819
LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

OSSF CROSS SECTIONS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C7.02

Plotted By:Pfeiffer, Braden Sheet Set:Kha Layout:Details 1 November 01, 2022 06:53:13pm K:\HOU_LA\P\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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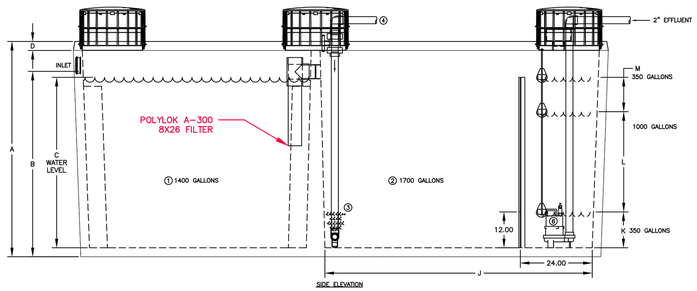
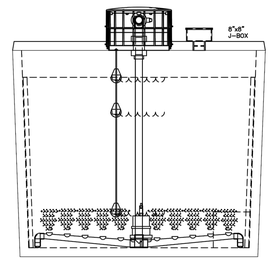
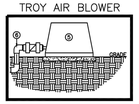
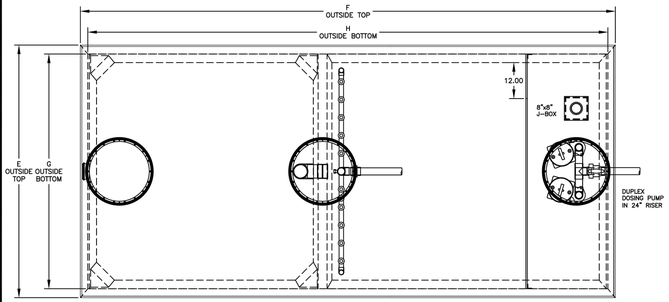




CRITICAL DIMENSIONS	
A	72.00"
B	62.00"
C	57.00"
D	3"
E	84.50"
F	179.00"
G	78.50"
H	174.00"
J	89.50"
K	12.00"
L	33.50"
M	11.50"

TROY AIR BLOWER





PLAN VIEW

1400 GAL TRASH/1700 GAL EQ TANK

1) 1400 GAL TRASH TANK WITH 4" TEE CROSS OVER WITH A PLACE FOR AN OPTIONAL OUTLET FILTER
2) 1700 EQ PUMP TANK WITH STILLING WELL. PUMP TANK IS 29.83 GALLONS PER INCH AND CAN BE DIVIDED TO SUIT THE NEEDS OF THE DESIGNER.
3) AERATION BAR IS LOCATED WITHIN THE SECOND CHAMBER OF A TWO COMPARTMENT TANK. COARSE AIR DIFFUSER BAR BEGINS BREAKS UP THE WASTE AND BEGINS THE OXYGENATION PROCESS.
4) AIR LINE TO THE:
5) TROY AIR H-675 BLOWER - LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSES ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. THIS BLOWER MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE.
6) DUPLEX GOULD'S 3872 WW511 2" SOLIDS HANDLING PUMPS CONNECTED TO A DUPLEX SJE RHOMBUS METER DOSING PANEL.

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www.hootsystems.com

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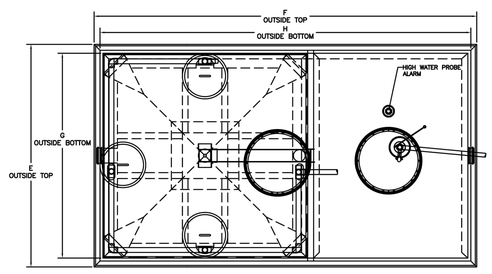
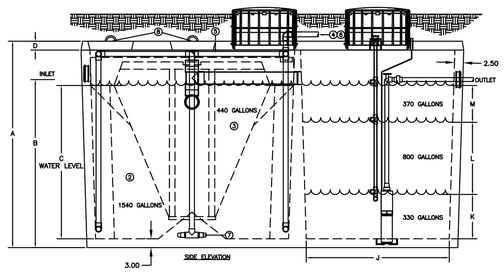
DESCRIPTION:	DRAWN BY:	CHECK BY:	SCALE:	PART #
1400 GAL TRASH TRAP W/ 1700 GAL. EQ/PT WITH AERATION AND DUPLEX PUMPING				1400_1700
DATE: 05-15-2018	AY	RS	N.T.S.	

CRITICAL DIMENSIONS	
A	79.00"
B	71.25"
C	68.00"
D	3"
E	89.00"
F	157.00"
G	85.50"
H	152.75"
J	61.25"
K	N/A
L	N/A
M	N/A



PLAN VIEW



THE H-SERIES HOOT AEROBIC TREATMENT SYSTEM

1) SEPARATE PRETREATMENT TANK REQUIRED (MIN. 800 GALLONS, PROVIDED THROUGH HOOT DISTRIBUTOR)- WHERE ANAEROBIC DIGESTION OCCURS AND STORAGE FOR NON-BIODEGRADEABLE MATERIALS.

2) AERATION CHAMBER- WHERE AIR IS INTRODUCED INTO SEWAGE FOR DIGESTION.

3) CLARIFIER- A STILL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.

4) TROY AIR LINEAR AIR BLOWER- LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSED ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE.

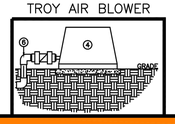
5) AIR MANIFOLD- DELIVERS THE AIR FROM THE LINE TO THE STONES FOR DIFFUSION INTO THE SEWAGE.

6) AERATION LINE- DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.

7) AERATION STONE- AIR IS FINELY DIFFUSED FROM THE STONE INTO THE AERATION CHAMBER.

8) 15" COVERS- PROVIDE ASSEMBLY PORT ACCESS INSIDE OF THE SYSTEM. (NOT REQUIRED FOR REGULAR SERVICE)

TROY AIR BLOWER



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DESCRIPTION:	DRAWN BY:	CHECK BY:	SCALE:	PART #
1200 GPD PUMP DISCHARGE SYSTEM HOOT SYSTEMS H-1200 w/ 1,500 GAL. P.T.				H-1200-1500
DATE: 03-17-2014	AY	RS	N.T.S.	

Daily flows	TCEQ 285.91 (3) Table III		Notes
Parks (without bathhouse per person)	8 gal. / employee / day	396 mg/l	See Calculations Below

Calculations:

#5 Day BOD (lbs./capita/day)	
RE. Steven N. Goldstein and Walter J Moberg, Jr.	
Wastewater Treatment Systems for Rural Communities	0.03 lbs./capita/day
Table 9, Parks	
Capita (Visitors)	66 persons
Raw Wastewater BOD	1.98 lbs. BOD per day
Average Wastewater BOD Conc.	396 mg/l

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Population							
Bathhouse Occupants (Domestic Flow)	131	131	40	40	40	40	40

	Saturday	Sunday	Monday	Tuesday	Vednesda	Thursday	Friday	
Flow - gallons per day								
Bathhouse Occupants (Domestic Flow)	1048	1048	320	320	320	320	320	3696
Total Flow Generated (gallons)	**1048**	**1048**	**320**	**320**	**320**	**320**	**320**	**3696**
Plant Throughput	(600)	(600)	(600)	(600)	(600)	(600)	(600)	(4200)
Hydraulic Carryover To Be Stored	448	448	(280)	(280)	(280)	(280)	(280)	
Volume in Storage, gallons	448	896	616	336	56	0	0	

DESIGN FLOW

Average Daily Flow	600 gallons per day	
Raw Wastewater BOD	1.98 lb BOD per day	
Average Wastewater BOD Conc.	396 mg/l	

PRETREATMENT TANK

Required Pretreatment Tank Volume	1,500 gallons	TCEQ 285.91 (2) Table II, For Q between 501 gal/day and 1000 gal/day
Proposed Pretreatment Tank Volume	1,400 gallons	Provide (1) 1400 gal Trash Trap, Hoot Systems or Equal
Pretreatment Tank Detention	56 hours	Hydraulic Retention Time
BOD Reduction in Pretreatment Tanks, % Removal	50% removal	Per Boyer, J.A., and C.A. Rock: 1992. Performance of Septic Tanks
BOD Remaining for Treatment (mg/l)	198 mg/l	
BOD Remaining for Treatment (lb)	0.99 lb BOD per day	
Duration of Flow into Pretreatment Tanks	8 hours per day	Based on 16-hour runoff time
Duration of Flow into ATU from Dosing Tanks	24 hours per day	Based on 24-hours of operation, 7 days a week

HOLDING/DOSING TANK

Required Holding/Dosing Tank Volume	918 gallons	TCEQ 285.91(b)(4)(B)
Proposed Holding/Dosing Tank Volume	1700 gallons	Provide (1) 1700 gal EQ/PT with Aeration and Duplex Pumping, Hoot Systems or Equal
Proposed Number of Doses to ATU Per Day	24 doses	TCEQ 285.34(b)(4)(B)
Flow Dosed to ATU's	37.33 gal./dose	Average Daily Flow / Doses
Dosing Duration	1.00 min. every 60 min.	Provide (2) Duplex Gould's 3872 WW511 2" Solids Handling Pumps
Feed Rate to Each ATU	37.33 gpm	Adjust Ball Valve in ATU & Dosing Pump Recycle Valve accordingly
BOD Fed to ATU's	0.04 lb BOD per hour	Based on 24-hours of operation

AEROBIC TREATMENT UNIT

Required ATU Tank Volume	1,000 gallons	ANSI/NSF Standard 40 BOD5 Loading Chart
Hydraulic Capacity of ATU's (Each)	1,540 gallons per day	
BOD Capacity of ATU's (Each)	3 lb BOD per day	
Proposed Aerobic Treatment Units	1 each	Provide (1) 1500 gal Aerobic treatment tank, Hoot Systems or Equal
Total ATU Hydraulic Capacity of ATU's	1,540 gallons per day	
Total BOD Treatment Capacity of ATUs (daily)	3 lb BOD per day	
Total BOD Treatment Capacity of ATUs (hourly)	0.13 lb BOD per hour	> 0.04 lb BOD per hour = OK
BOD Concentration in Effluent Leaving ATUs	SATISFACTORY	Per EPA/625/R-00/008, 2002, Onsite Wastewater Treatment Systems Manual
BOD Removal Efficiency Through ATU	SATISFACTORY	< 65 mg/l per TCEQ 285.91 (4) Table IV, Required Testing and Reporting

EFFLUENT PUMP TANK

Effluent Pump Tank Volume Required	798 gallons	TCEQ 285.34(b)(2)
Proposed Effluent Pump Tank Volume	1,200 gallons	Provide (1) 1200 gal Pump Discharge Tank, Hoot Systems or Equal
		TCEQ 285.34(b)(3), distribution pump tank will require dual pumps, see below

EFFLUENT DISPOSAL AREA

Disposal Application Rate (Ri)	0.035 gallons/day/sq ft	TCEQ 285.90(1) Figure 1
Disposal Area Required	17,143 square feet	
Disposal Area Provided	19,782 square feet	
Diameter of Spray Heads	60 feet	30-foot radius
Area of Coverage Required for each Spray Head	2,449 square feet	
Area of Coverage for each Spray Head	2,826 square feet	No overlapping areas
Proposed number of Spray Heads	7 units	
Flow per Spray Head	3.40 gpm	
Number of proposed Zones	2 each	
Flow per Zone	13.6 gpm	
Pumping Duration per Zone	5.5 minutes	Start pump at 1:00 am and Shut Off Pump at 5:00 am
Flow per cycle	150 gallons	
Flow in 4 cycles	600 gallons	
Total Pumping Duration	22 minutes/day	

No.	DATE	BY

Kimley»Horn
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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-8300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022
STATE OF TEXAS
ELI D. PUENTE
136819
LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

OSSF DETAILS (1 OF 3)

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C7.03

Plotted By:Pfeiffer, Braden Sheet Set:Kha Layout:Details 2 November 01, 2022 06:53:35pm K:\HOU_LA\LP\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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TUF-TITE TANK SEALS

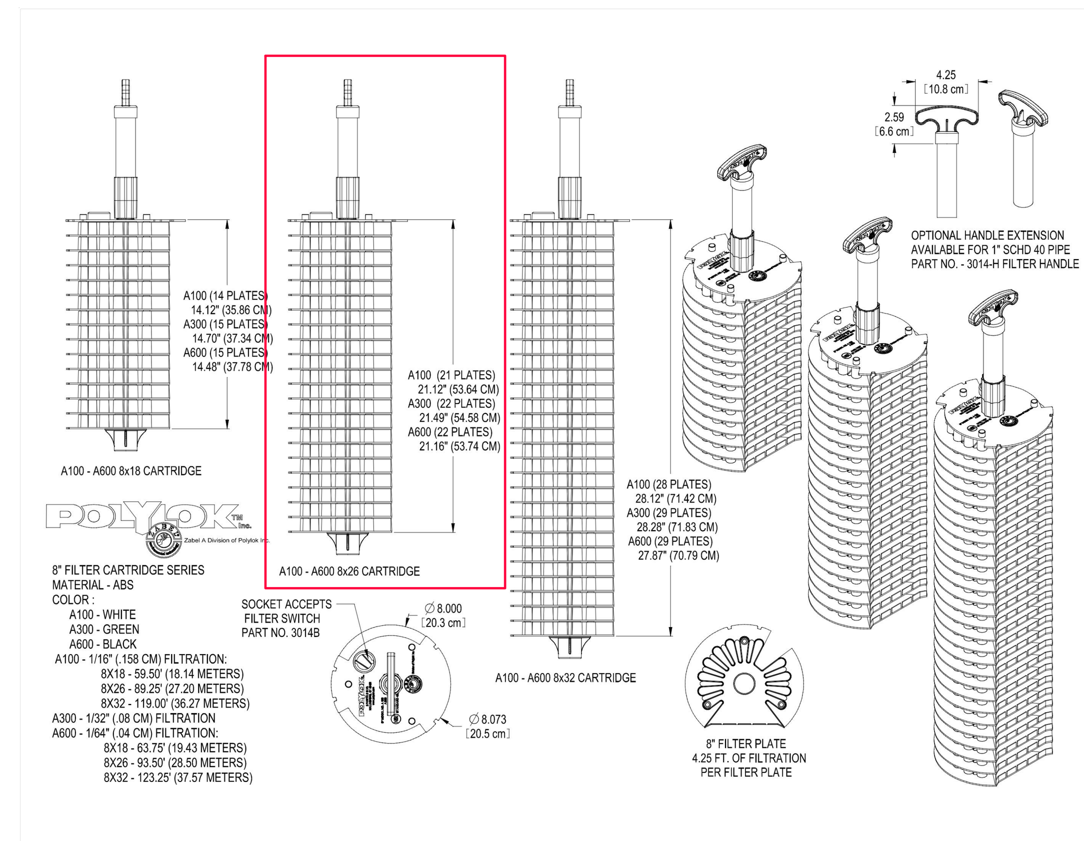
TUF-TITE SEPTIC TANK RISER ASSEMBLY

FEATURES	A1800 Series	A100 Series	A300 Series	A600 Series
Filtration	1/16"	1/16"	1/32"	1/64"
Gallons Per Day	800	2,500 - 10,000	1,700 - 7,900	1,000 - 4,500
Surface Area Filtration (sq.ft.)	1.21	4.21 - 18.93	4.49 - 18.55	4.49 - 19.23
SmartFilter® Switch and Alarm	Available	Available	Available	Standard
Available Filter Dimensions	4x18, 4x22	8x18, 8x26, 8x32 12x20, 12x28, 12x36	8x18, 8x26, 8x32 12x20, 12x28, 12x36	8x18, 8x26, 8x32 12x20, 12x28, 12x36
Disc Dam Technology		X	X	X
Extend & Lok Compatible	X	X	X	X
NSF Certification	X	X	X	X
Installed in Multiples for Larger Flows		X	X	X
APPLICATIONS				
Residential	X	X	X	
Residential Multi-Family	X	X	X	
Commercial		X	X	X
Grease Traps			X	X
High TSS Removal & CBOD5	X	X	X	X
BENEFITS				
Extends Life of Leaching Fields	X	X	X	X
Keeps Solids in Septic Tank	X	X	X	X
POLYLOK COMPARABLE FILTERS	PL-68	PL-122 & PL-525	PL-625	

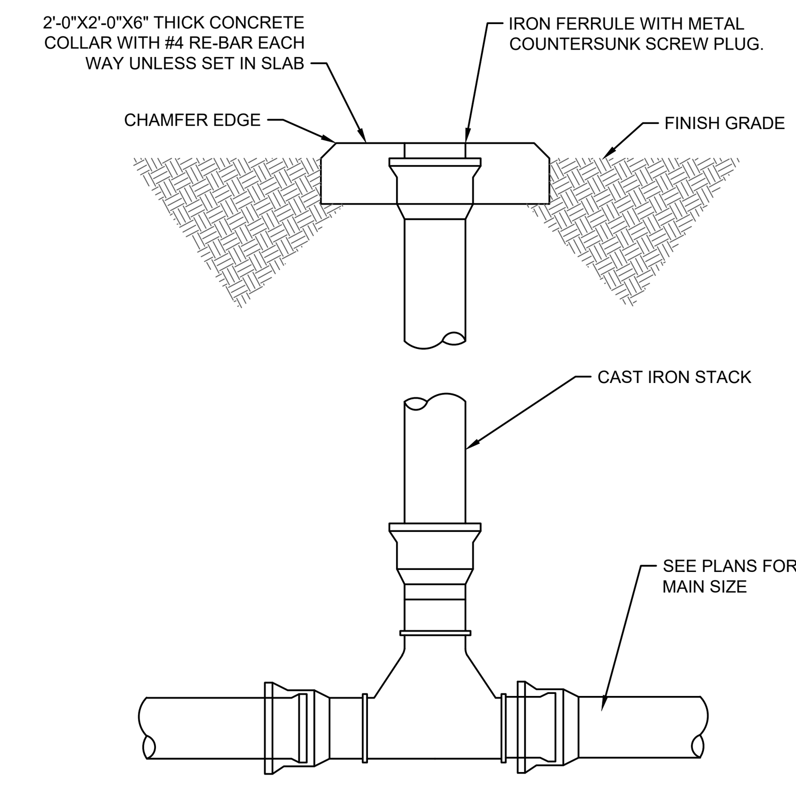
PATENTS: U.S.A. - 5,593,584 - 5,683,577 - 6,338,797 - 6,478,957 - 6,306,299 - 6,841,066 - 6,360,898 - 5,482,621 - 5,382,357 - 6,129,837 Canada - 2,403,930 - 2,135,937 Australia - 2001251377 - 134440 China - ZL01809204.7 Europe - 01924752.7 New Zealand - 521839 - 264824 Mexico - 201506 Israel - 111574

www.polylok.com 1-877-765-9565

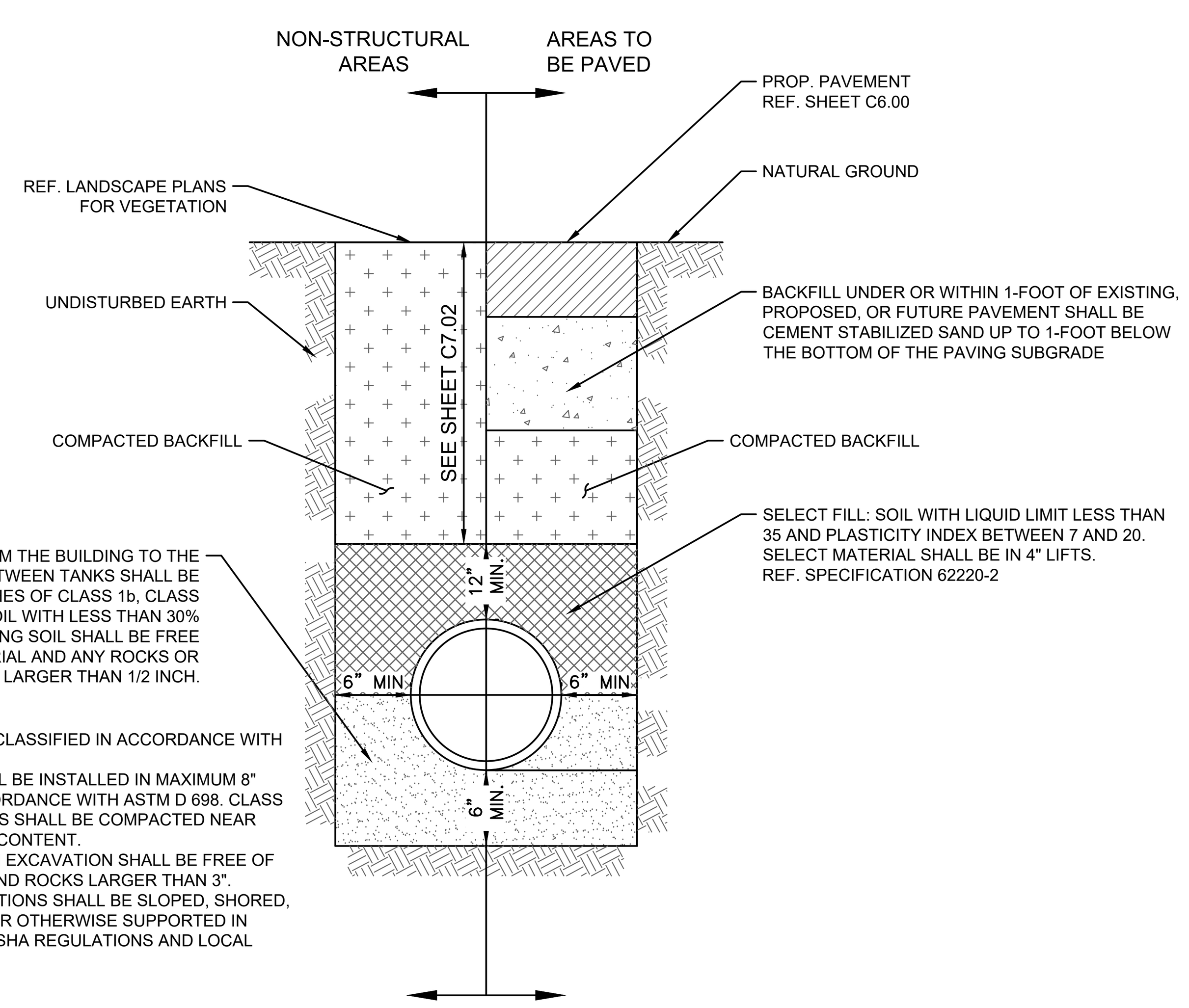
POLYLOK ZABEL FILTERS



POLYLOK ZABEL FILTERS

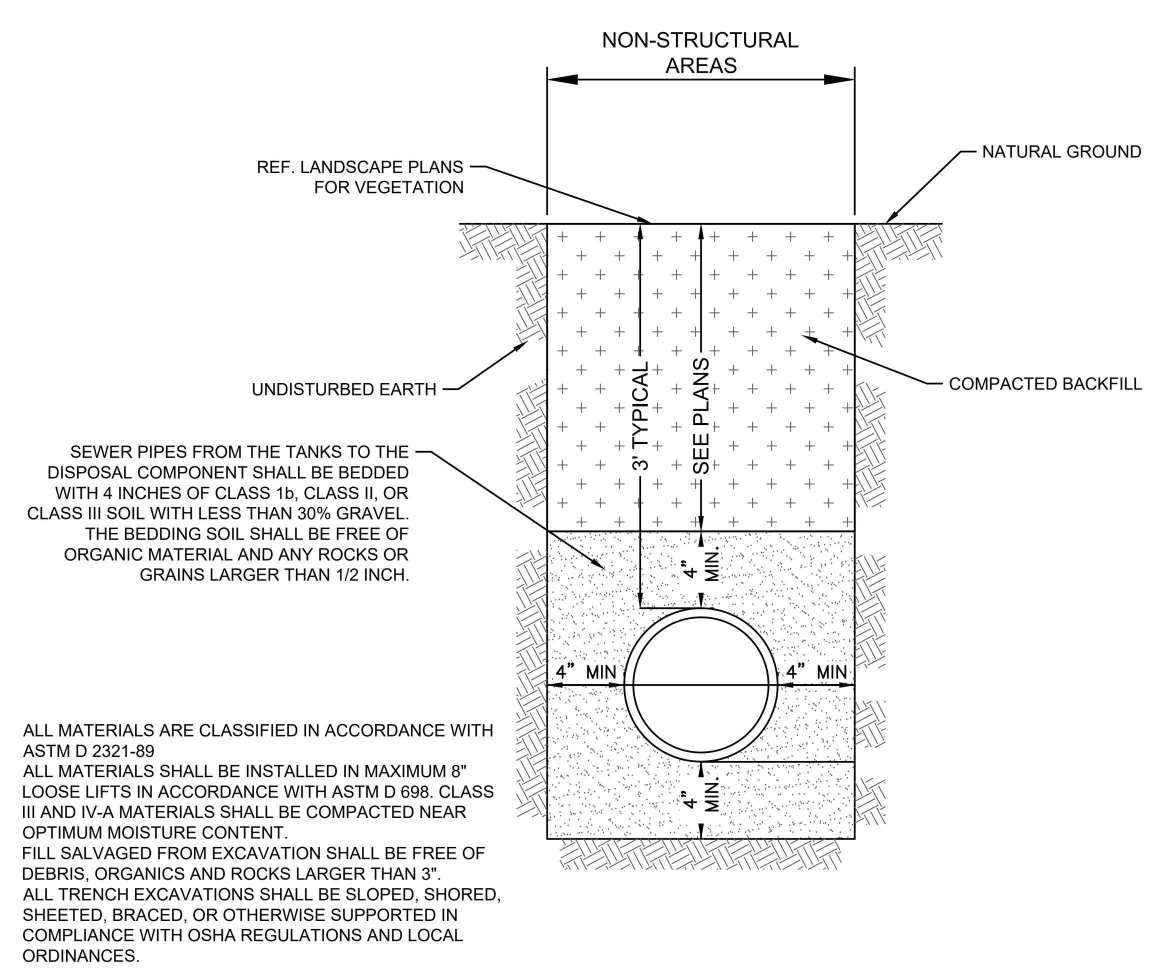


TWO-WAY CLEANOUT



1. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89
2. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
3. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
4. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

GRAVITY MAIN PIPING FOR BUILDING CONNECTION AND BETWEEN OSSF TANKS EMBEDMENT DETAIL



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EFFLUENT DISPOSAL LINE AND LATERAL LINE EMBEDMENT DETAIL

OSSF Soil & Site Evaluation

Page 1 (Soil & Site Evaluation) **Date Performed:** 08/23/2022

Property Owner: SRA - Newton County Park

Site Location: Sam Force Collins Recreation Area Proposed Excavation Depth: ______

REQUIREMENTS:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear.

Soil Boring Number: 1

Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	IB	NA	Light Red to Tan - Well Aerated	—	High % Sand - w/ previous soil disturbance
2 FT.	II	NA	Tan - White Well Aerated	—	Sand - Sand Loam w/ no moisture
3 FT.	II	NA	Tan - Good Well Aerated	—	Sand w/ no moisture
4 FT.	II	NA	Lt. Red/Good Well Aerated	—	High Sand w/ very low % silty clay
5 FT.	II	NA	Red-Good		High % Sand w/ low % silty clay - well draining.

Soil Boring Number: 2

Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	II	NA	Brown - Tan Well Aerated	—	High % Sand w/ organics
2 FT.	II	NA	Red - Good Sandy Loam	—	Sand - Loam w/ silty clay loam @ 29"
3 FT.	IV	@ 28"	White Gray Cleachey	Yes	7 70% clay feathers to 2'+
4 FT.					
5 FT.					

FEATURES OF SITE AREA

Presence of 100 year flood zone	☐ Yes ☑ No
Presence of upper water shed	☐ Yes ☑ No
Presence of adjacent ponds, streams, water impoundments	☑ Yes ☐ No
Existing or proposed water well in nearby area (within 150 feet)	☐ Yes ☑ No
Ground Slope	2 %

I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

(Signature of person performing evaluation) 8/23/2022 (Date) SE - 050029868 Registration Number and Type

Form # PA3/2-2004-Revised-Final

Page 2 (Soil & Site Evaluation):

Date Performed: 8/23/2022

Site Location: Newton County Park ☐ Subsurface Disposal ☐ Surface Disposal

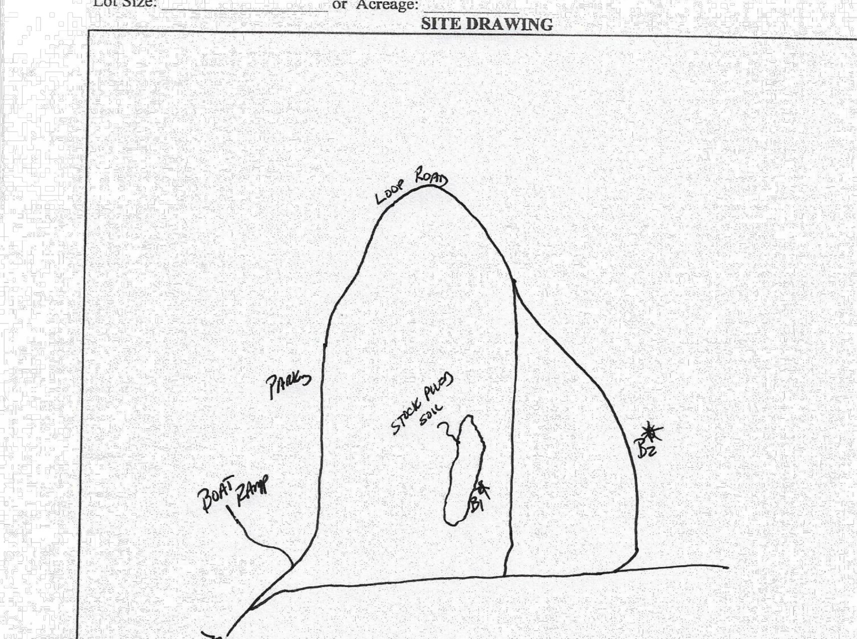
Schematic of Lot or Tract

Show:

Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and any other structures where known.
Location of existing or proposed water wells within 150 feet of the property.
Indicate slope or provide contour lines from the structure to the farthest location of the proposed disposal field.
Location of soil boring or excavation pits (show location with respect to a known reference point).
Location of natural, constructed, or proposed drainage ways (ditches, streams, ponds, lakes, rivers, etc.), water impoundment areas, cut or fill bank, sharp slopes and breaks.

Lot Size: ______ or Acreage: ______

SITE DRAWING



Form # PA4/2-2004-Revised-Final

SITE EVALUATION FORM

No.	DATE	BY

Kimley»Horn

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PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022 STATE OF TEXAS ELI D. PUENTE 136819 LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

OSSF DETAILS (2 OF 3)

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER C7.04

Plotted By:Pfeiffer, Braden Sheet Set:Kha Layout:Details 3 November 01, 2022 06:54:31pm K:\HOU_LALP\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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xylem
Let's Solve Water

TECHNICAL BROCHURE
BBLASTER R3

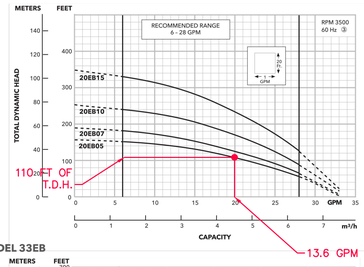
BLASTER®
FILTERED EFFLUENT PUMP

BUILT IN THE USA
ENGINEERED, ASSEMBLED & TESTED

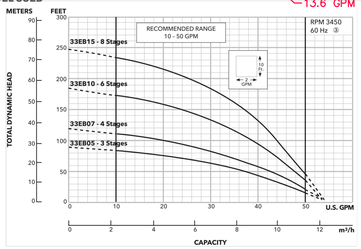
GOULDS WATER TECHNOLOGY
a xylem brand

GOULDS EB-SERIES EFFLUENT SPRAY PUMPS

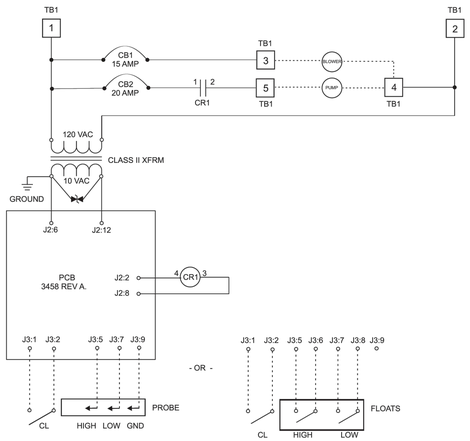
MODEL 20EB



MODEL 33EB



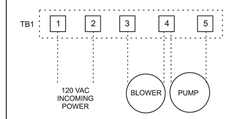
GOULDS EB-SERIES EFFLUENT SPRAY PUMPS



TEMPERATURE RATING OF FIELD INSTALLED CONDUCTORS MUST BE AT LEAST 140 DEG. F (60 DEG.C.). TERMINAL STRIPS AND GROUNDING LUG WILL ACCEPT COPPER CONDUCTORS. TORQUE RATING OF TERMINAL STRIP CLAMPING SCREWS IS 16 IN/LBS FOR POWER, BLOWER AND PUMP CONTROL SECTION AND 50 IN/LBS FOR GROUND LUG.

HOOT LA - SERIES PUMPED EFFLUENT CONTROLLER | DATE : 3/24/2011

FIELD WIRING SECTION



1. 120 VAC TO BE SUPPLIED VIA 30 AMP INDEPENDENT BRANCH CIRCUIT SUPPLIED BY OTHERS.
2. DASHED LINES REPRESENT FIELD WIRING.
3. ELECTRICAL DISCONNECT TO BE INSTALLED WITHIN SITE OF SYSTEM CONTROLS.

LEGEND

1. CR1 -PUMP RELAY
2. PCB -PRINTED CIRCUIT BOARD
3. CB1 -BLOWER CIRCUIT BREAKER
4. CB2 -PUMP CIRCUIT BREAKER

AEROBIC SYSTEMS, INC.
2885 HIGHWAY 14 EAST
LAKE CHARLES, LA 70607
(337) 474-2804

ELECTRICAL SCHEMATIC OF DUAL DUPLEX CONTROL PANEL

HOOT SYSTEMS, LLC.
www.hootsystems.com
Install A Hoot Don't Pollute

Hoot Universal Control Panels

Controller Features:
Single Integrated Controller Operates
Complete Treatment System
High Water Monitoring
Aeration operation and backpressure reading
Memory of Alarms and other operational info
Along with Optional control of :
Simplex, Duplex & Recirculation Pumps

Applications:
Used on LA-Hoot, H-Series, BNR, ANR & NR Models

Controller Features:

Single Phase, Simplex/Duplex demand or time dose, float or probe controlled system for operating the Hoot LA/BNR/ANR/NR/H-Series Treatment Systems including the blower, effluent and recirculation pumps, zone control, recirculation & field flushing valves.

The Hoot Universal Controller is designed to control one or two (alternating) 120 or 220 VAC single phase, up to 1 HP effluent pumps in a Hoot Wastewater Treatment System without the need for additional contactors or Motor Starters

The Controller also monitors the Blower for Low and High Pressure and provides the service technicial a diagonistic of system backpressure.

The System also has discharge options of Demand Dose (a set level between 2 probes or floats) Timed Dose (1-20 minute doses occurring up to 6, 12, 18, 24 or 36 times per day) & Drip Dosing Control that adds to the timing above and the operation of a field flush, filter flush, and duplex electronic zone control.

The controller also operates additional inputs and outputs for the control of recirculation pump(s) for our ANR & NR Nitrogen, Carbon dosing for our ANR products, and an optional water meter input to store gallon usage information on any of our systems.

The system also contains a special harness that can mate up with serval brands of Remote alarms/Auto Dialers. The harness provides a 500 mA fused output to operate the dialer and 4 channel outputs, including HWA, Blower Failure, Disinfection Failure and "Maintenance Alert" which indicates a system operation is out of typical operation level, but is still functioning.

Panel Components:
•Enclosure is 8x6x4 or 10x8x4 inches (for Duplex Panels) , UL Listed NEMA 4X (UV stabilized thermoplastic for outdoor use)
•5 Indicator Lamps that show system status during typical operation and advanced controls in troubleshooting modes.
•Silence Alarm button that also allows access to "System Diagnostics and Troubleshooting from outside of enclosure.
•Alarm Sonalert – 85 db at 1.5 meters to alert of an alarm condition with the system
•Circuit Breakers provide pump(s) & blower disconnect and branch circuit protection
•Solid State Relays provide for the operation of the pump(s)
•Probe/Float Connection Terminal Block (located on the control Board)
•Terminal block for connection of incoming power, blowers and pumps

2885 Highway 14 E. Lake Charles, LA 76707 (888) 878-HOOT www.hootsystems.com

HOOT UNIVERSAL CONTROL PANEL

ITT
Wastewater

Goulds Pumps
WW05 Series Model 3872
Submersible Sewage Pumps

FEATURES

- **Impeller:** Glass-filled thermoplastic Full-Vortex design with pump out vanes for mechanical seal protection.
- **Casing and Base:** Rugged glass-filled thermoplastic design provides superior strength and corrosion resistance.
- **Motor Housing:** Cast iron for efficient heat transfer, strength, and durability.
- **Motor Cover:** Thermoplastic cover with integral handle and float switch attachment points.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Power Cable:** Severe duty rated oil and water resistant.
- **O-ring:** Provides positive sealing. Easily replaced during maintenance.
- Stainless steel fasteners.

GOULDS PUMPS

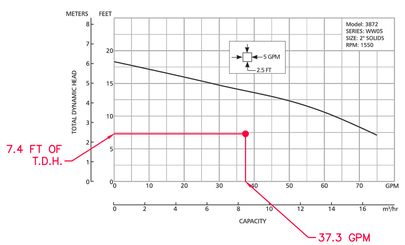
Goulds Pumps is a brand of ITT Corporation.

www.goulds.com

Engineered for life

GOULDS WW05 SERIES EFFLUENT PUMP

ITT
GOULDS PUMPS
Wastewater



PERFORMANCE CHARTS

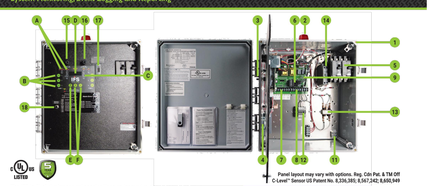
These charts show actual system performance with friction loss factored in for various discharge pipe lengths. Calculations and performance based on a system with 2" PVC, schedule 40 plastic pipe (C150). (4) 90° elbows, (1) check valve and (1) shut-off valve. Wastewater requires a minimum scouring velocity of 21 gpm for 2" pipe. Shaded areas do not provide min. scouring velocity - use only for gray water with no solids.

WW05 (3872)

	4	6	8	10	12	14	16
25	75	68	62	52	40	27	13
50	67	61	54	45	35	24	12
75	61	55	48	40	32	22	11
100	56	50	44	37	29	21	11
150	48	43	38	32	26	18	10
200	43	39	34	29	23	17	10
250	39	35	31	26	21	15	10
300	35	32	29	24	20	14	10

GOULDS WW05 SERIES EFFLUENT PUMP

INSTALLER FRIENDLY SERIES® (IFS) IN-SITE® SINGLE PHASE DUPLEX
Demand Dose or Timed Dose, Float or C-Level™ Sensor Controlled System for Pump Control, System Monitoring, Event Logging and Reporting



Panel layout may vary with options. Reg. Cdn Pat. & TM Off
C-Level™ Sensor US Patent No. 8,336,380; 8,847,242; 8,680,949

The IFS In-Site® duplex control panel utilizes an innovative circuit board design to control two alternating 120/208/240V single phase pumps in water and sewage applications. IFS panels feature an easy-to-use touch pad on inner door for programming and system monitoring. The alternating pump equalizes pump wear. Internal or external pump protection is provided by optional Pump Saver®. Quick retrieval of all system parameters can be done by downloading panel information onto a USB flash drive. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Available with the EZconnex® float system.

Monitor system events including pump run times, pump cycles, alarm conditions, power outages, service calls and more! Quick, convenient reports make diagnosing system conditions easy! Plug the flash drive into the USB port located on the inner door of the IFS In-Site® panel to download system events which occurred. No computer is needed at the site! Use the flash drive (included with) with any computer to download system information and reports. The pre-loaded software allows for easy-to-read graphs and charts. Reports can be emailed in PDF or easy-to-read format so system conditions can be easily identified and corrected. In addition to monitoring system events, the IFS In-Site® panel logs any service calls and changes made to system settings, which helps protect service providers.

The panel can utilize the C-Level™ sensor for continuous level monitoring. It senses the level in the tank and sends a signal to the panel. Pump activation levels can be adjusted by using the panel touch pad. C-Level™ CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-Level™ CL100 operating range is 3-99.9 inches (7.6-252.7 cm).

TOUCH PAD FEATURES

A. Level Status indicators: Illuminate when floats or set points are activated; alarm will activate if a float operates out of sequence
B. HOA (Hand-Off-Automatic) buttons with indication control pump mode; Hand mode defaults to Automatic when stop level or redundant off level is reached
C. Pump Run indicators will illuminate when pumps are called to run
D. LED display for system information including: level in inches or centimeters (C-Level™ only), mode, pumps elapsed time (hr/min), events (cycles), alarm code, last error count, timed dose override counter (timed dose only), pump ON/OFF times (timed dose only), and sequence ON/OFF times (timed dose only)
E. NEXT push button toggles display
F. UP and SET Push Buttons used to set pump ON/OFF times (timed dose only), pump operation (alternate 1-2 and 2-1), date and hour, activation levels (C-Level™ only)

COMPONENTS

1. Enclosure base measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use)
2. Red LED beacon provides 360° visual check of alarm condition
3. Exterior Alarm Test/Normal/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared
4. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
5. Circuit breakers (optional) provide pump disconnect and branch circuit protection
6. Power relays control pump by switching electrical lines; definite purpose contactors used when pump full load amps are above 15
7. Float connection terminal block
8. Incoming Control/Alarm Terminal Block
9. Control Power indicator/fuse indicator light illuminates if control power is present in panel; alarm activates if control fuse is Blown
10. Alarm Power indicator/fuse indicator light illuminates if alarm power is present in panel (Not shown)
11. Ground lugs
12. Incoming pump power connections
13. RF filter
14. Power supply
15. Control fuse
16. Alarm fuse
17. USB port for flash drive to download time-stamped system events
18. Manual report switch date and time stamps service calls

Note: Options, voltage, and amp range selected may change enclosure size and component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

SJE RHOMBUS

TM/®/SJE, Inc. Rev 05/21
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SJE Rhombus is a Redondo of SJE, Inc.

www.sjerhombus.com • Toll Free 888-342-5753

DUPLEX CONTROL PANEL

INSTALLER FRIENDLY SERIES® IN-SITE® SINGLE PHASE DUPLEX - Demand or timed dose float controlled system for pump control, system monitoring, event logging and reporting.

IFI		1	W				8AC
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	OPTIONS (LISTED BELOW)

CONTROL PANEL	✓	IFI	
MODEL TYPE	✓	3	Duplex Timed Dose (includes Option BAC as standard)
		4	Duplex Demand Dose (includes Option BAC as standard)
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE		1	120/208/240V
		9	120V only
PUMP FULL LOAD AMPS		0	0 - 7 FLA
		1	7 - 15 FLA
		2	15 - 20 FLA
PUMP DISCONNECTS		0	No Pump Disconnect
	✓	4	Circuit Breaker(s) 120V (select STARTING DEVICE Option 9 above)
			Circuit Breaker(s) 120/208/240V (select STARTING DEVICE Option 1 above)
FLOAT SWITCH APPLICATION		H	Floats - Pump Down (select Option 17 below) Timed dose + timer enable and alarm / Demand dose + stop, start, and alarm
		E	EZconnex® Float Switch System (select Option 34 or 35 below) — Timed Dose / Demand Dose
		X	No Floats — Timed Dose / Demand Dose
	✓	C	C-Level™ Sensor (select Option 24 or 29) Select Option 3E and/or 4A & 4D for high water alarm and/or redundant off floats — Timed Dose / Demand Dose

NOTE: Pump down applications only. Industry practices suggest that a secondary device, such as a float switch, be used for redundant activation of the high level alarm and pump shut off when using the C-Level™ sensor.

PRICING WORKSHEET

IFI Duplex Base Price	_____
Alarm Package	_____
Enclosure Rating	_____
Starting Device	_____
Pump Full Load Amps	_____
Pump Disconnects	_____
Float Switch Application	_____
Total Options	_____
TOTAL LIST PRICE	_____

OPTIONS		DESCRIPTION
✓	1J	Duo Alarm Inputs
✓	3A	Alarm Flasher
✓	3B	Manual Alarm Reset
✓	3E	High Water Alarm Float (must also select Option 17) **Only Available with Float Switch Application = C**
	4A	Redundant Off (must also select Option 4D if floats are required) — Timed Dose / Demand Dose
	4D	Redundant Off Float (must also select Option 4A and Option 17)
	6A	Auxiliary Alarm Contact, Form C
✓	BAC	**Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter, Override Counter (Timed Dose Only), and Lead/Lag Selector (Demand Dose Only) (included as standard)**
✓	10E	Lockable Latch - NEMA 4X
	10F	Lightning Arrestor (select pump circuit breakers, control and alarm power combined)
	10K	Anti-condensation Heater **(must select if operating temperature is colder than 0 degrees F or -18 degrees C)**
	11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)
	11D	Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)
✓	15A	Control/Alarm Circuit Breaker
	16A	10' Cord in Lieu of 20' Cord (per Float)
	16B	15' Cord in Lieu of 20' Cord (per Float)
	16C	30' Cord in Lieu of 20' Cord (per Float)
	16D	40' Cord in Lieu of 20' Cord (per Float)

OPTIONS		DESCRIPTION
	17C	Sensor Float* / Internally Weighted (per Float) - Mercury
	17D	Sensor Float* / Externally Weighted (per Float) - Mercury
	17G	SJE MillAmpMaster® / Pipe Clamp (per Float) - Mechanical
	17H	SJE MillAmpMaster® / Externally Weighted (per Float) - Mechanical
	17J	Sensor Float* / Pipe Clamp (per Float) - Mercury
	18A	Timer Override Float (Timed Dose Float Panel Only)
	19F	Fourth Float to Separate Alarm Function from Lag (Demand Dose Float Panel Only)
	24E	C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord
	24F	C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord
	24G	C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord
	24H	C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord
	24X	No C-Level™ CL40 Sensor
	29A	C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord
✓	29B	C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord
	29X	No C-Level™ CL100 Sensor
	34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	34F ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
	34H ■	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug
	35D ■	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp
	35E ■	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp
	35G ■	EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp
	35H ■	EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections

California Prop 65 requires the following: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

 www.sjerhombus.com • email: customer.service@sjeinc.com **SEE PRICE BOOK FOR PRICING.** SJE RHOMBUS

DUPLEX CONTROL PANEL

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-558-8700
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

11/01/2022
STATE OF TEXAS
ELI D. PUENTE
136819
LICENSED PROFESSIONAL ENGINEER

KHA PROJECT	068925100
DATE	NOV. 2022
SCALE	AS SHOWN
DESIGNED BY	JM
DRAWN BY	JM
CHECKED BY	EDP

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

OSSF DETAILS
(3 OF 3)

SHEET NUMBER
C7.05

Plotted By:Pfeiffer, Braden Sheet Set:Kha Layout:Details 4 November 01, 2022 06:56:05pm K:\HOU_LA\LP\068925100_SRA Sam Collins Park\CAD\Sheets\C-OSSF.dwg
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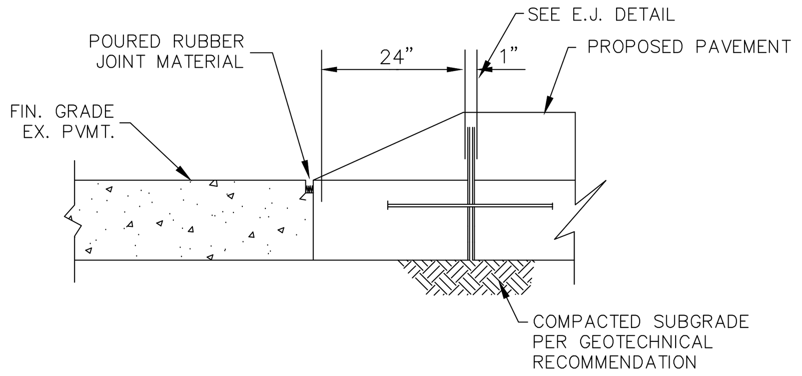
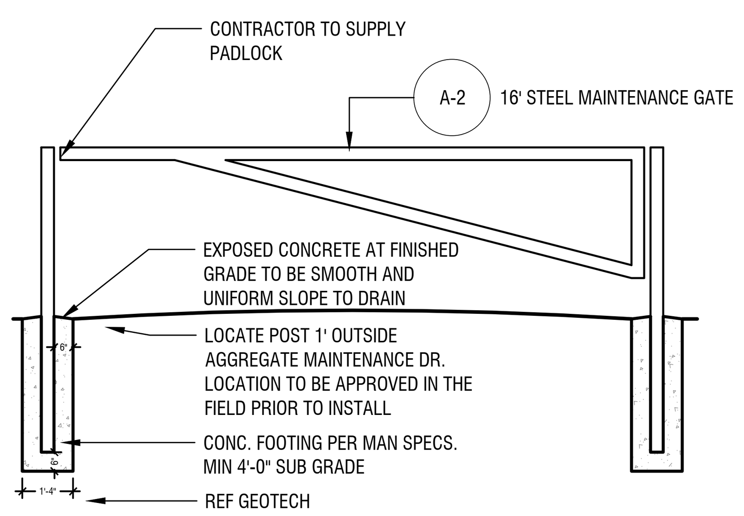


CURB TERMINATION DETAIL - SECTION — J

Scale NTS



MAINTENANCE GATE — I

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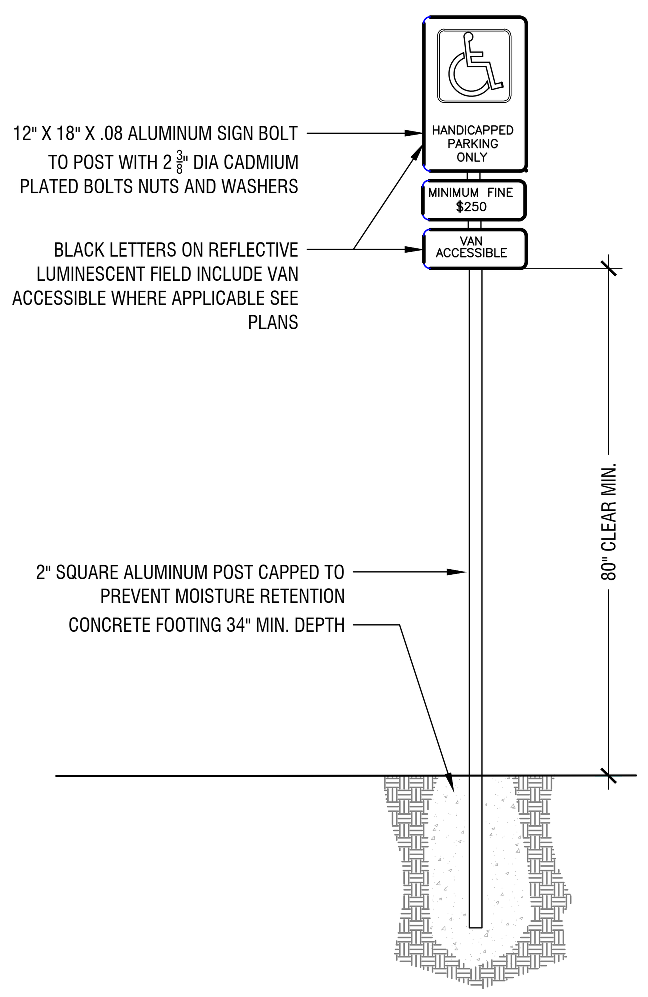
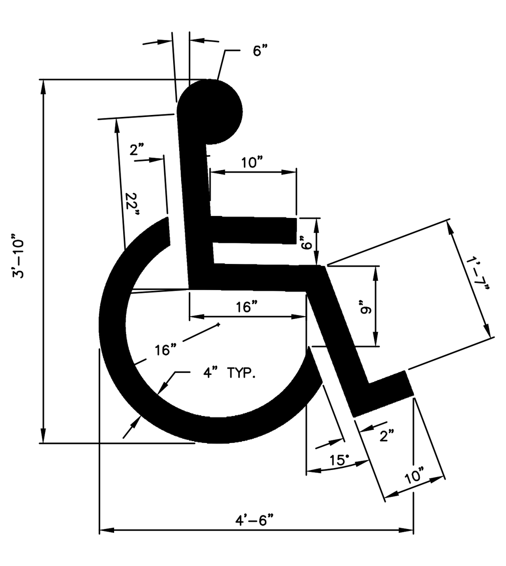


ACCESSIBLE PARKING SIGN — H

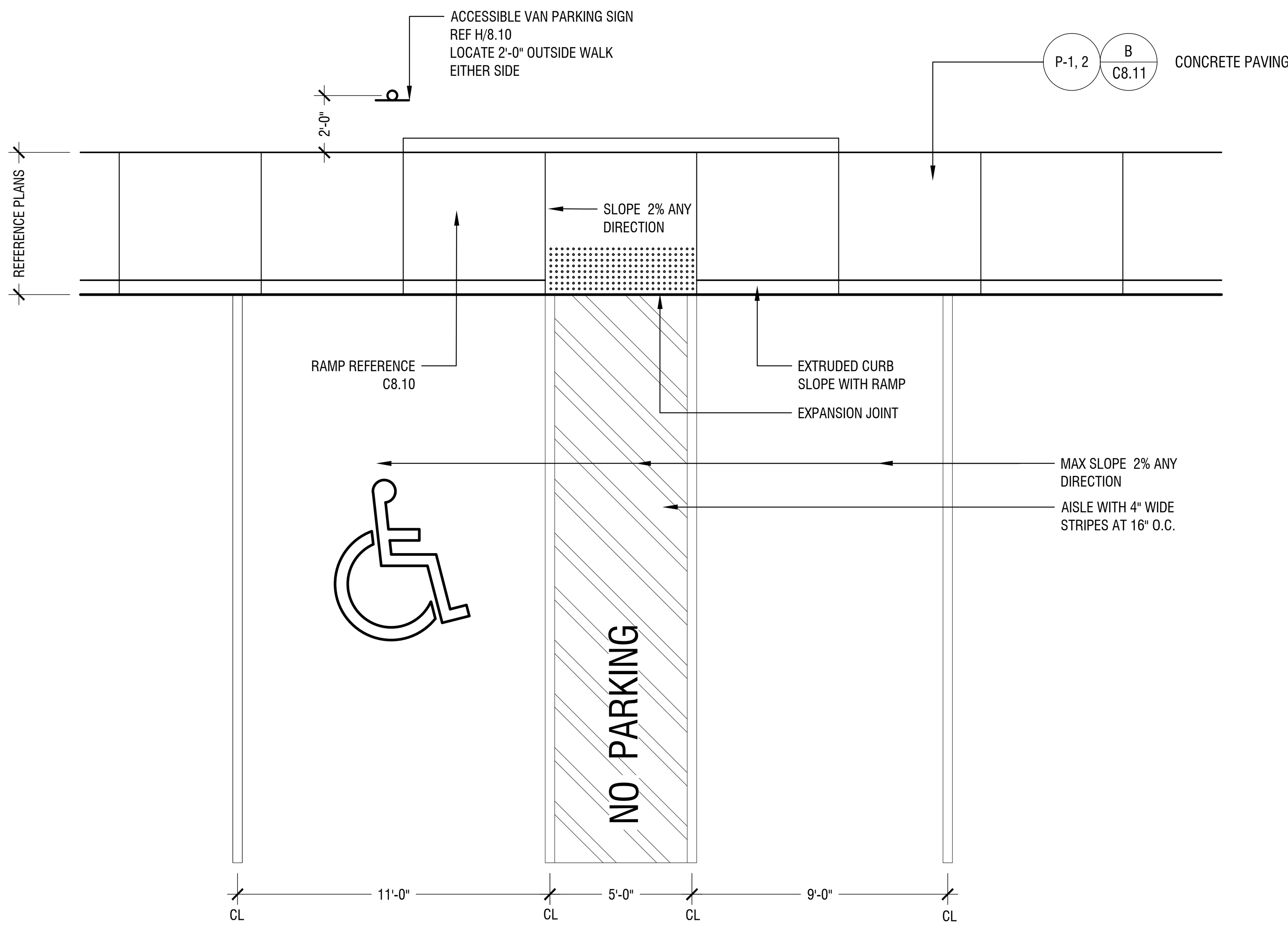
Scale 1/2" = 1' - 0"



SEE SPACES DESIGNATED "♿"

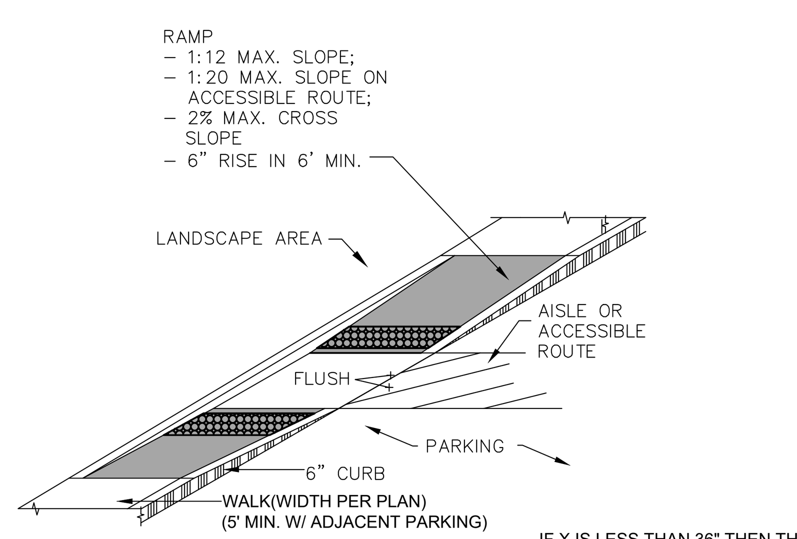
ACCESSIBLE PARKING SYMBOL — G

Scale NTS



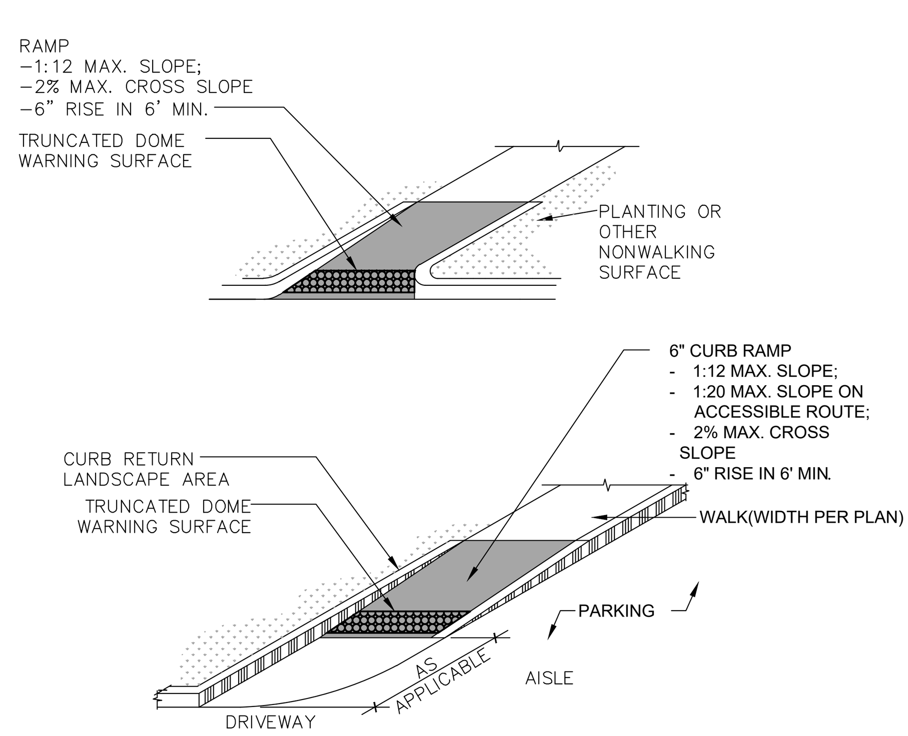
VAN ACCESSIBLE PARKING SPACE — F

Scale: 1/4" = 1'-0"



PARALLEL CURB RAMP

IF X IS LESS THAN 36" THEN THE SLOPE OF THE FLARED SIDES SHALL NOT EXCEED 1:12, OTHERWISE IT MAY BE 1:10.



RETURNED CURB RAMPS

TAS SECTION 406 – CURB RAMPS.

TAS SECTION 406.1 GENERAL.
CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5, AND 405.10.

TAS SECTION 406.2 COUNTER SLOPE.
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

TAS SECTION 406.3 SIDES OF CURB RAMPS.
WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

TAS SECTION 406.4 LANDINGS.
LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.

EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 1:12.

TAS SECTION 406.5 LOCATION.
CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

TAS SECTION 406.6 DIAGONAL CURB RAMPS.
DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL–DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

TAS SECTION 406.7 ISLANDS.
RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

TAS SECTION 405.2 SLOPE
RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12

MAXIMUM RAMP SLOPE AND RISE FOR EXISTING SITES, BUILDINGS, AND FACILITIES
- SLOPE STEEPER THAN 1:10 BUT NOT STEEPER THAN 1:8, MAXIMUM RISE IS 3 INCHES
- SLOPE STEEPER THAN 1:12 BUT NOT STEEPER THAN 1:10, MAXIMUM SLOPE IS 6 INCHES
- A SLOPE STEEPER THAN 1:8 IS PROHIBITED.

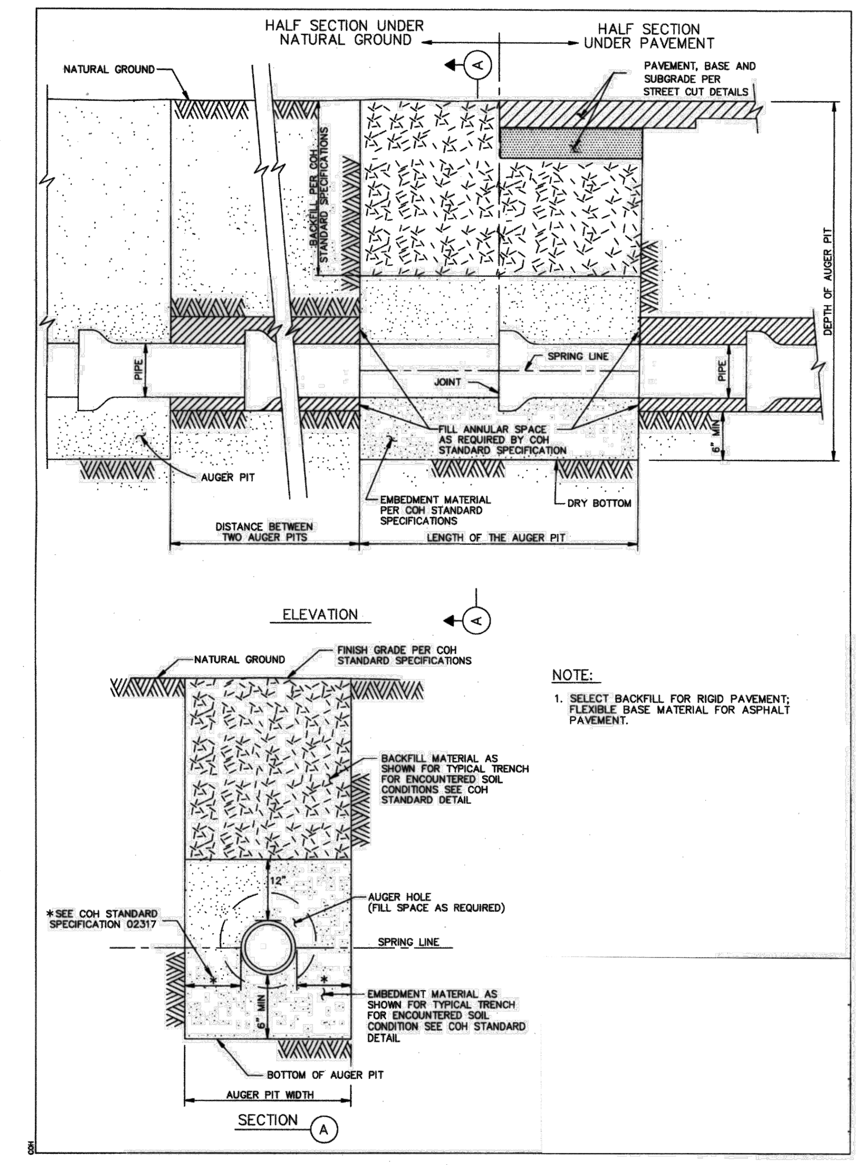
TAS SECTION 405.3 CROSS SLOPE.
CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48

TAS SECTION 405.4 FLOOR OR GROUND SURFACES.
FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.

TAS SECTION 405.5 CLEAR WIDTH.
THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.

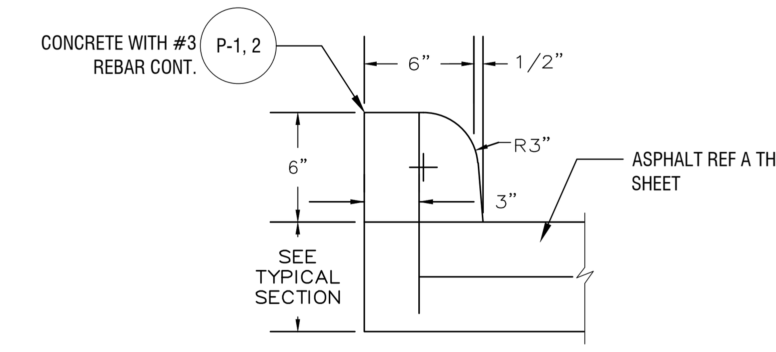
TAS SECTION 405.10 WET CONDITIONS.
LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

CURB RAMPS NOT IN THE PUBLIC ROW — E



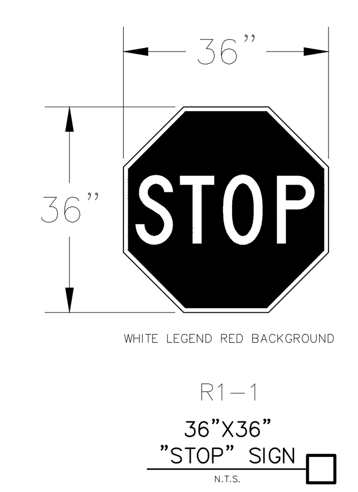
BEDDING AND BACKFIL AUGER PIT AND AUGER HOLE — D

Scale NTS



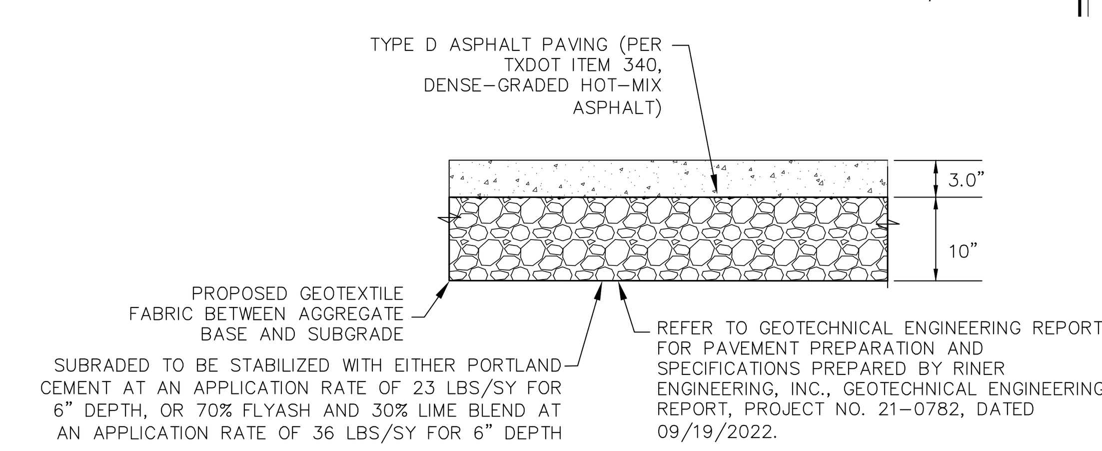
6" EXTRUDED CURB - SECTION — C

Scale NTS



CONCRETE WALK TYPICAL T-HEAD CONNECTION — B

Scale: 3/8" = 1'-0"



NOTES

1. REFERENCE GEOTECH REPORT FOR LIME TREATMENT OF NATIVE SOILS. EXPECTED RATE OF 4–6% LIME BY DRY UNIT WEIGHT TO SELECT FILL REQUIREMENTS TO BE CONFIRMED BY PERFORMING LIME SERIES TESTS TO CONFIRM AMOUNT OF LIME REQUIRED.
2. ASPHALTIC CONCRETE PAVEMENT SHOULD COMPLY WITH TXDOT STANDARD SPECIFICATIONS, ITEM 340, "DENSE–GRADED HOT–MIX ASPHALT (METHOD)", OR LOCAL EQUIVALENT. THE FLEXIBLE BASE COURSE SHOULD COMPLY WITH TXDOT STANDARD SPECIFICATIONS, ITEM 247, GRADE 1–2, TYPE A, "FLEXIBLE BASE", OR EQUIVALENT.
3. REFERENCE GEOTECH REPORT SECTION 5.12.3 FOR PAVEMENT SUBGRADE DETAILS. CEMENT STABILIZATION SHOULD BE PERFORMED IN ACCORDANCE WITH TXDOT STANDARD SPECIFICATIONS, ITEM 275, "PORTLAND CEMENT TREATED MATERIALS" OR LOCAL EQUIVALENT, AND LIME–FLY ASH STABILIZATION SHOULD BE PERFORMED IN ACCORDANCE WITH TXDOT STNADARD SPECIFICATIONS, ITEM 265, "LIME–FLY ASH TREATMENT OF MATERIALS USED AS SUBGRADE" OR LOCAL EQUIVALENT.

MEDIUM DUTY ASPHALT - SECTION — A

Scale NTS

No.	DATE	BY

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PHONE: 281-597-9300
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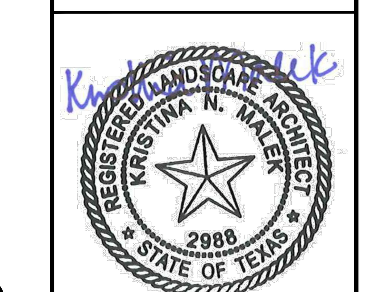

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS 1 OF 7

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C8.10

Plotted By:Lambeth, Alayna Sheet Set:Kha Layout:C8.10 November 02, 2022 11:40:01am K:\HOU_LALP\068925100_sra sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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Clayey sand and clay is expected to be encountered or exposed at pavement subgrade. The pavement subgrade should be placed in loose lifts not exceeding 8-inches and should be uniformly compacted to a minimum of 95 percent maximum dry density (per ASTM D-698) and within ±2 percent of the optimum moisture content. We recommend the subgrade be stabilized using either of the following:

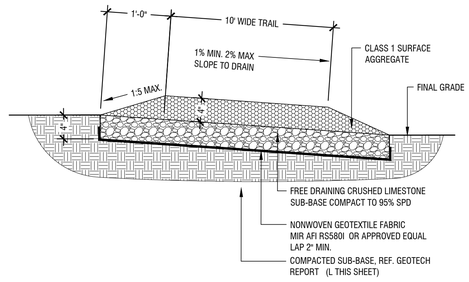
Reagent	Application Rate (pounds per square yard)	Application Depth (inches)
Portland Cement	23	6
70% Flyash/30% Lime Blend	36	6

Cement stabilization should be performed in accordance with TxDOT Standard Specifications, Item 275, "Portland Cement Treated Materials" or local equivalent, and lime-fly ash stabilization should be performed in accordance with TxDOT Standard Specifications, Item 265, "Lime-Fly Ash Treatment of Materials Used as Subgrade" or local equivalent.

GEOTECH REPORT - PAVEMENT SUB-GRADE

Scale NTS

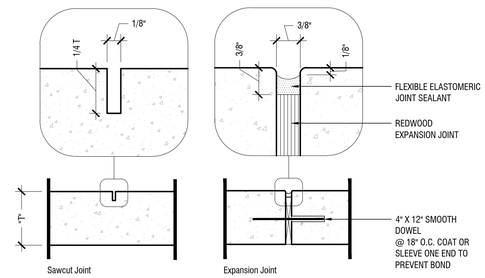
L



AGGREGATE TRAIL

Scale: NTS

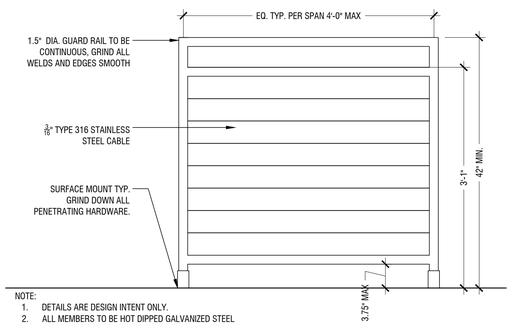
G



CONCRETE TYPICAL JOINTS

N.T.S.

C

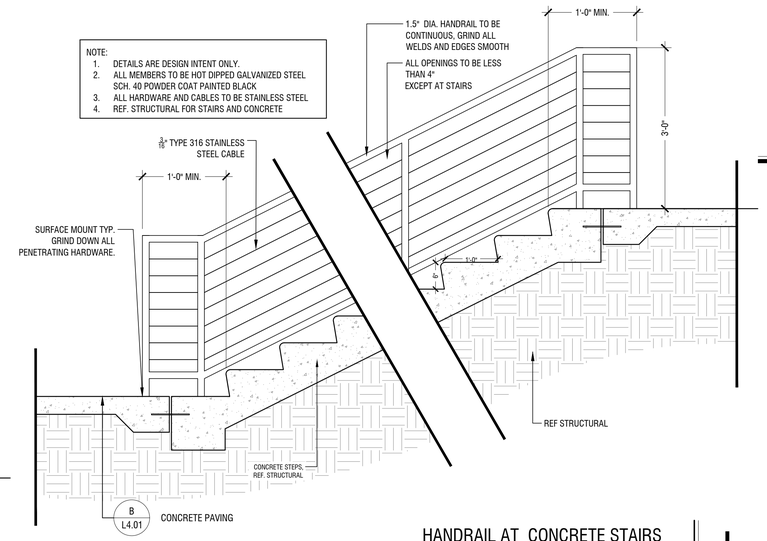


NOTE:
1. DETAILS ARE DESIGN INTENT ONLY.
2. ALL MEMBERS TO BE HOT DIPPED GALVANIZED STEEL SCH. 40 POWDER COAT PAINTED BLACK
3. ALL HARDWARE AND CABLES TO BE STAINLESS STEEL

GUARD RAIL

Scale 1" = 1' - 0"

K

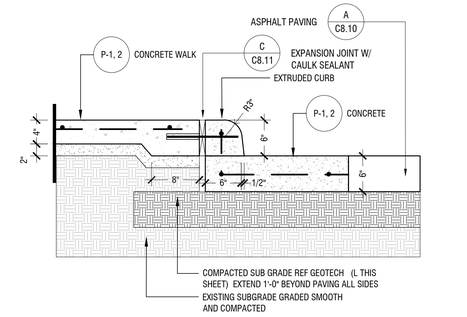


NOTE:
1. DETAILS ARE DESIGN INTENT ONLY.
2. ALL MEMBERS TO BE HOT DIPPED GALVANIZED STEEL SCH. 40 POWDER COAT PAINTED BLACK
3. ALL HARDWARE AND CABLES TO BE STAINLESS STEEL
4. REF. STRUCTURAL FOR STAIRS AND CONCRETE

HANDRAIL AT CONCRETE STAIRS

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

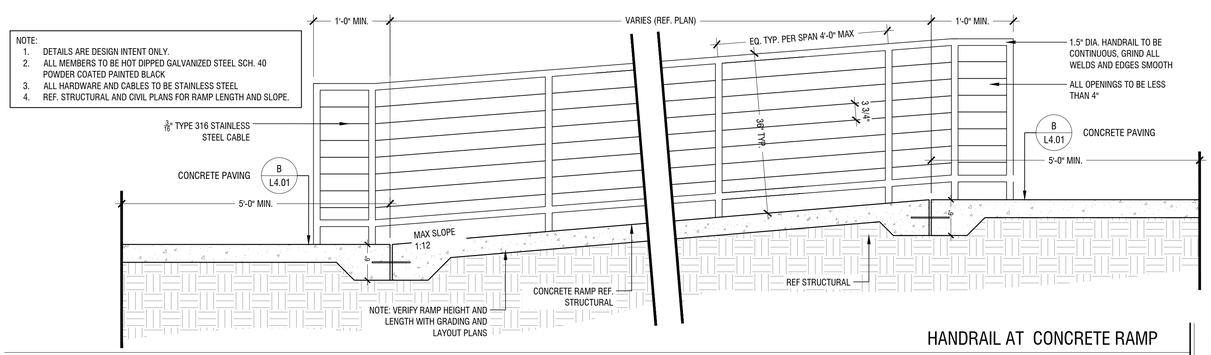
J



CONCRETE CURB AT WALK

Scale 1" = 1' - 0"

F

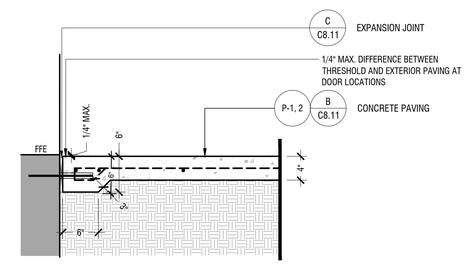


NOTE:
1. DETAILS ARE DESIGN INTENT ONLY.
2. ALL MEMBERS TO BE HOT DIPPED GALVANIZED STEEL SCH. 40 POWDER COAT PAINTED BLACK
3. ALL HARDWARE AND CABLES TO BE STAINLESS STEEL
4. REF. STRUCTURAL AND CIVIL PLANS FOR RAMP LENGTH AND SLOPE.

HANDRAIL AT CONCRETE RAMP

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

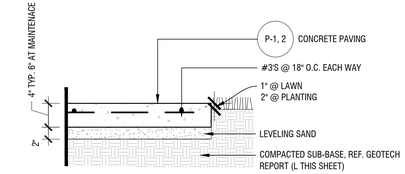
I



CONCRETE PAVING @ BUILDING & PAVILION

Scale: 1" = 1'-0"

E

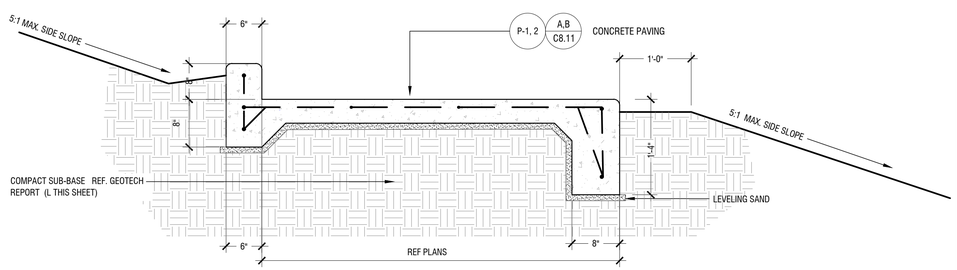


NOTES:
1. ALL PAVING TO MEET SUB-GRADE PREPARATION PER GEOTECH REPORT
2. ALL PAVING IN COUNTY RIGHT OF WAY TO MEET TXDOT STANDARDS

CONCRETE WALK SECTION

Scale: 1" = 1'-0"

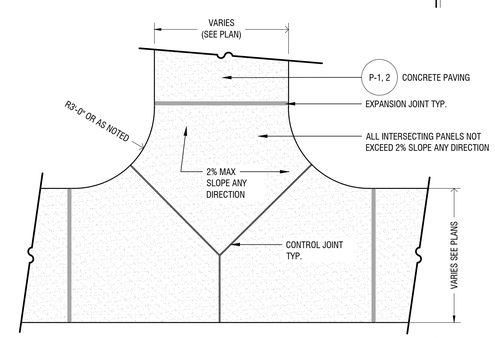
B



CONCRETE WALK SECTION AT SLOPE

Scale: 1" = 1'-0"

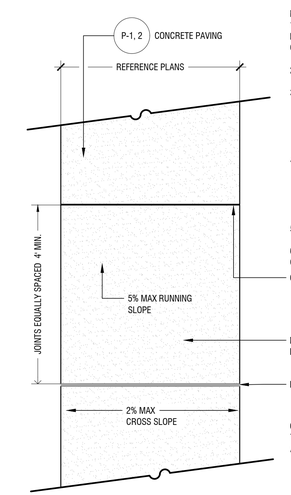
H



CONCRETE WALK TYPICAL T-HEAD CONNECTION

Scale: 3/8" = 1'-0"

D



NOTE
1. OWNER'S REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO 1ST POUR & BE ON SITE TO APPROVE CONCRETE WALK
2. REFER TO PLANS FOR WIDTHS OF WALK
3. LOCATE EXPANSION JOINTS AT 20'-0" O.C. IN 10'-0" WALKS, 18'-0" O.C. IN 6'-0" WALKS, 15'-0" O.C. IN 5'-0" WALKS & 12'-0" O.C. IN 4'-0" WALKS
4. LOCATE CONTROL JOINTS AT 10'-0" O.C. IN 10'-0" WALKS, 6'-0" O.C. IN 6'-0" WALKS, 5'-0" O.C. IN 5'-0" WALKS & 4'-0" O.C. IN 4'-0" WALKS
5. REFER TO WALK SECTION DETAIL THIS SHEET
6. ALL FORM BOARDS SHALL BE 1X4 MATERIAL OR GREATER.

CONTROL JOINT

MED. BROOM FINISH PERPENDICULAR TO DIRECTION OF WALK

REF 'EXPANSION JOINT' DETAIL 'C'

CONTRACTOR TO ENSURE ALL WALK TRANSITIONS ARE COMPLIANT WITH THE ADA AND TAS

CONCRETE WALK PLAN

Scale 1/2" = 1' - 0"

A

No.	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-560-4500
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MAYER 2988 STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS 2 OF 7

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C8.11

Plotted By:Lambeth, Alayna Sheet Set:Kha Layout:C8.11 November 02, 2022 11:40:09am K:\HOU_LALP\068925100 sra sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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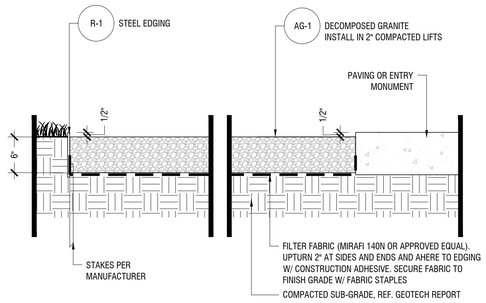
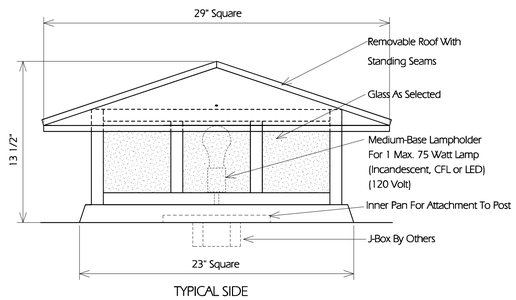


Decomposed Granite

Scale: 1 1/2"=1'-0"



TYPICAL SIDE

OR APPROVED EQUAL

TWO HILLS STUDIO®
Fine Lighting & Decorative Metal Work
2706 SOUTH LAMAR BOULEVARD AUSTIN, TEXAS 78704 512-707-7571 FAX 512-707-7524

POST LANTERN CPL24

Fixture Is Appropriate For:
- ● Wet Locations As Shown
- ___ Wet Locations With Glass Or Solid Top Added
- ● Dry Locations As Shown
- ● U.L. Approved

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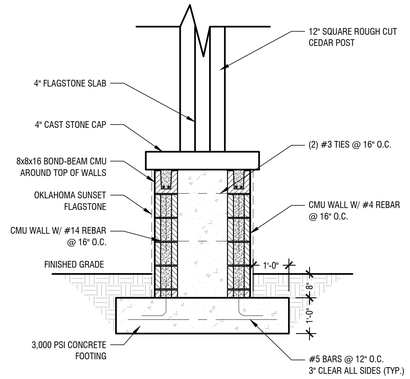
ENTRY MONUMENT - LANTERN

Scale: N.T.S.

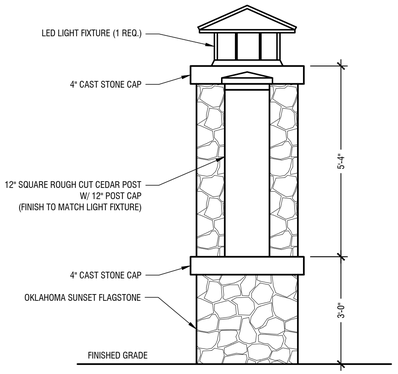
H



ENTRY MONUMENT SIDE ELEVATION / SECTION

Scale 1/2" = 1' - 0"

F



ENTRY MONUMENT SIDE ELEVATION / SECTION

Scale 1/2" = 1' - 0"

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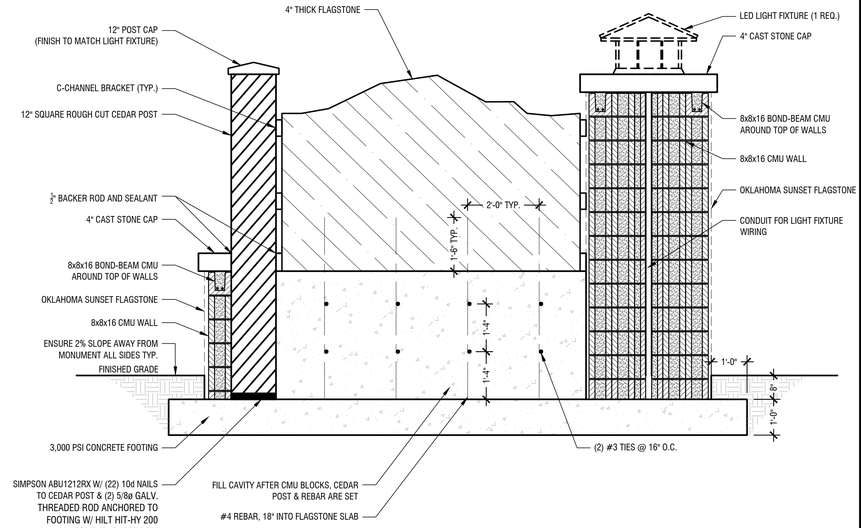
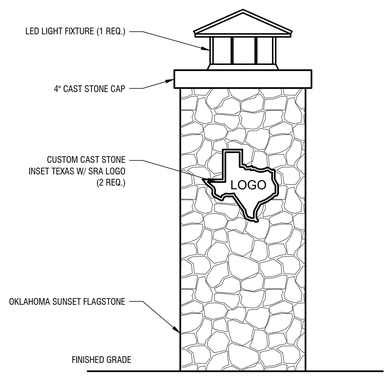


ENTRY MONUMENT FRONT SECTION / ELEVATION

Scale 1/2" = 1' - 0"

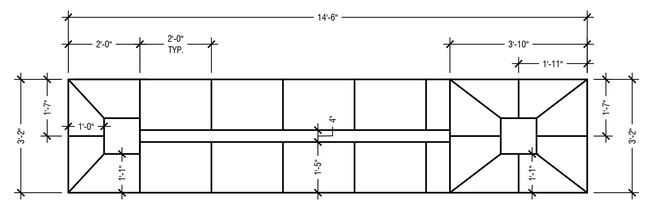
B



ENTRY COLUMN ELEVATION

Scale 1/2" = 1' - 0"

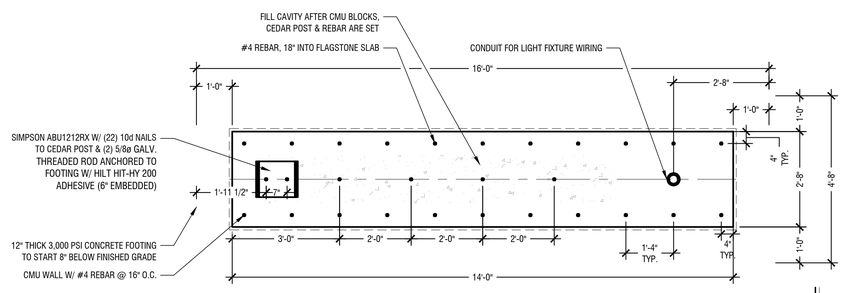
G



ENTRY MONUMENT PLAN VIEW

Scale 1/2" = 1' - 0"

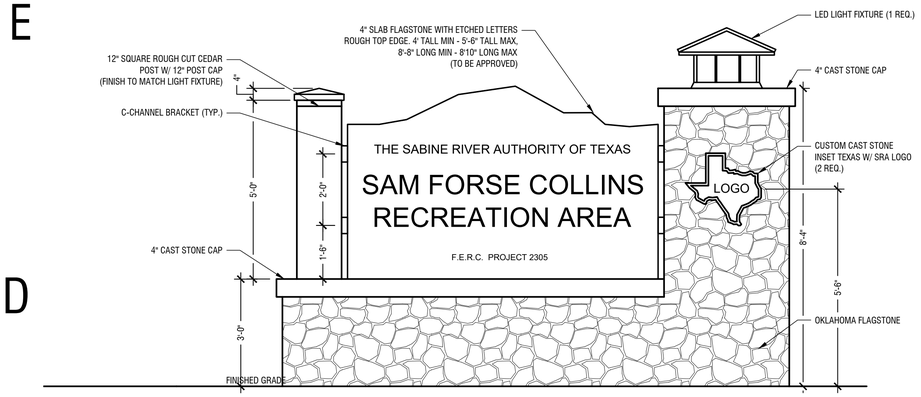
D

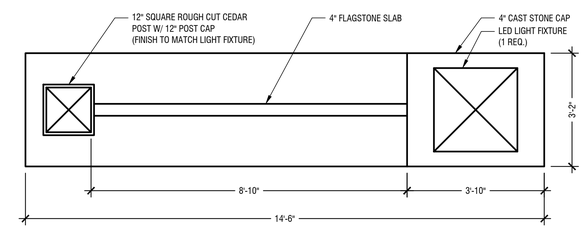


ENTRY MONUMENT PLAN SECTION

Scale 1/2" = 1' - 0"

C





ENTRY MONUMENT PLAN / ELEVATION

Scale 1/2" = 1' - 0"

A

No.	DATE	BY

Kimley»Horn

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PHONE: 281-560-4500
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS 3 OF 7

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

C8.12

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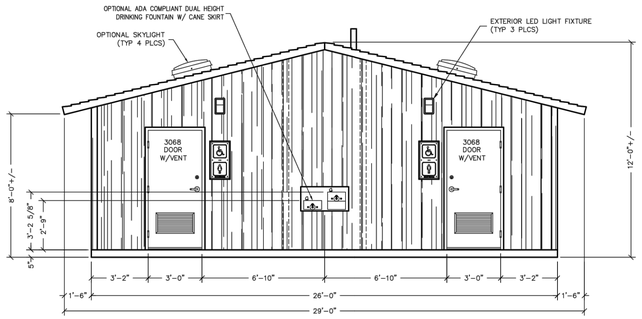
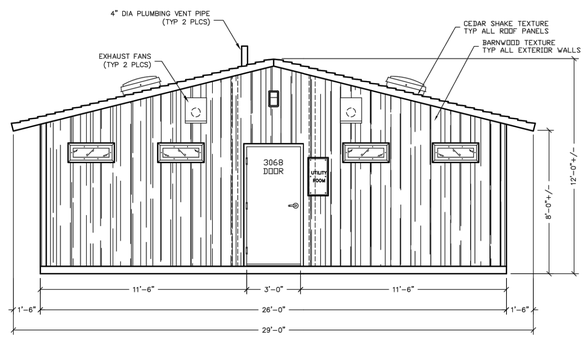
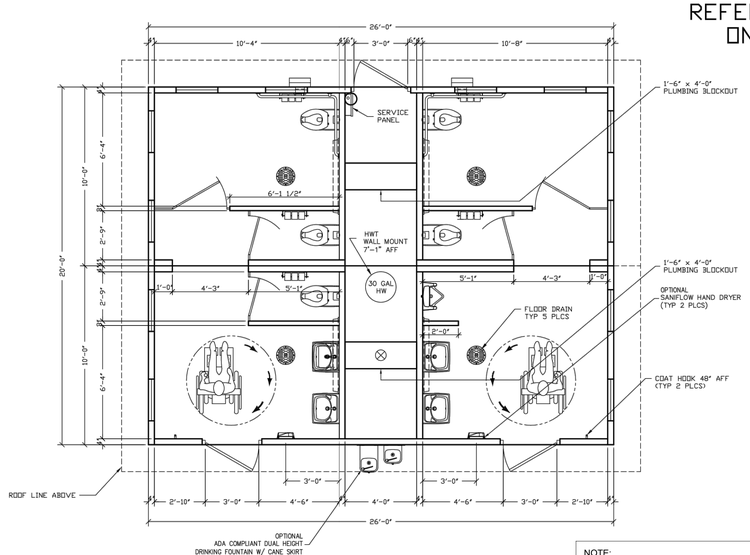


FRONT ELEVATION



REAR ELEVATION

FOR REFERENCE ONLY

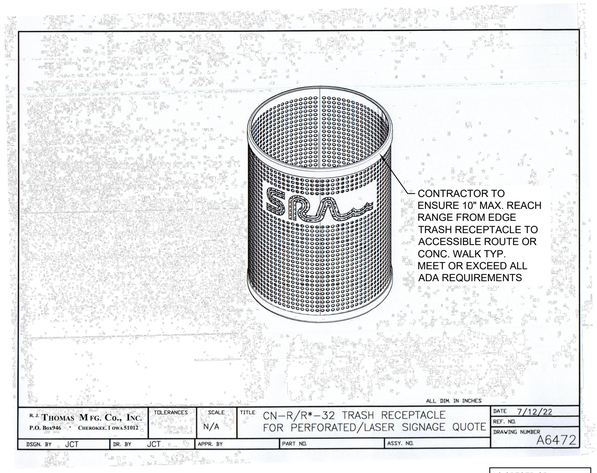


NOTE:
BUILDING TO BE SUPPLIED WITH A 200 AMP., 120/240V., 1 PHASE MCB PANELBOARD

CONTRACTOR TO PROVIDE BUILDING GRADE PREP; CRUSHED GRAVEL PAD COMPACTED TO 95% PROCTOR DENSITY WITHIN +/- 2% MOISTURE AND 2" SAND LEVELING COURSE

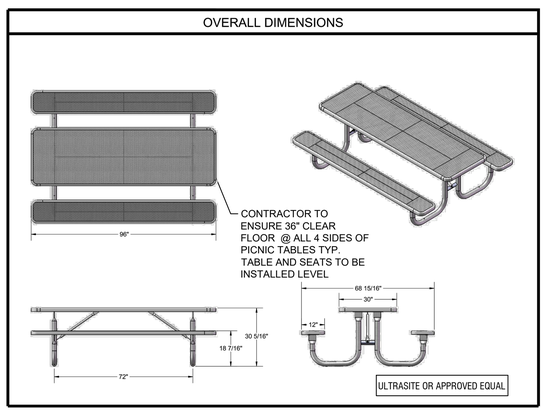
CXT OR APPROVED EQUAL

RESTROOM E



AS SPECED OR APPROVED EQUAL

TRASH RECEPTACLE D



PICNIC TABLE C

GENERAL NOTE:

ALL HARDWARE INCLUDING BOLTS, WASHERS, SCREWS, NAILS, TO BE SIMPSON STRONG TIE OUTDOOR ACCENT SERIES DECORATIVE BLACK UNLESS OTHERWISE NOTED.

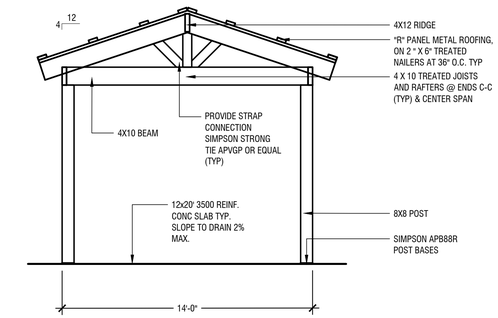
EXTERIOR BEAMS SHALL BE CONNECTED TO POSTS AS SHOWN ON PLANS.

ALL TIMBER MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE. NO. 2 OR BETTER

DECK PLANKS SHALL BE ATTACHED TO RAFTERS W/ 2.5 INCH GALV SCREWS, MIN. TWO SCREWS IN EACH PLANK PER CONNECTION.

METAL "R" PANEL ROOF SHALL BE 24 GAUGE AND INSTALLED WITH 1.5 INCH SCREWS WITH WASHERS AND GASKETS.

INSTALL WITH FASTENERS AT 6 INCH C-C SPACING AT ENDS, AND 12 INCH SPACING IN CENTER SECTIONS AND AT LAP JOINTS. PROVIDE RIDGE CAP AND RACK TRIM TO COLOR MATCH ROOF MATERIAL.



SHADE STRUCTURE SIDE ELEVATION B

Scale: 1/4" = 1'-0"

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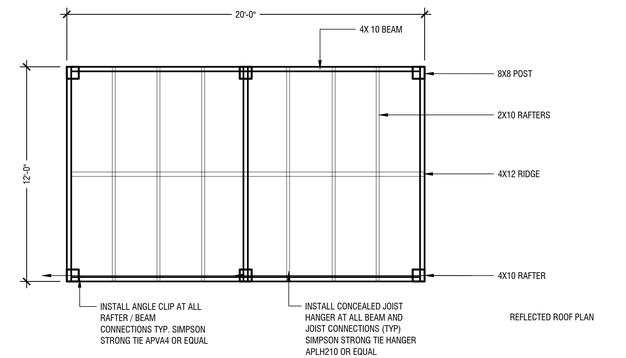
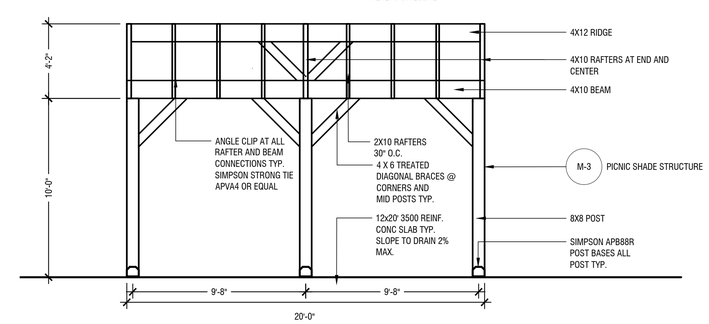


REFLECTED ROOF PLAN



SHADE STRUCTURE FRONT ELEVATION - FACING LAKE A

Scale: 1/4" = 1'-0"

No.	DATE	BY

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REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MAIER 2988 STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS 4 OF 7

SAM COLLINS PARK PHASE 1A

PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C8.13

Plotted By:Lamberth, Allayna Sheet Set:Kha Layout:C8.13 November 02, 2022 11:40:19am K:\HOU_LA\P\068925100_era sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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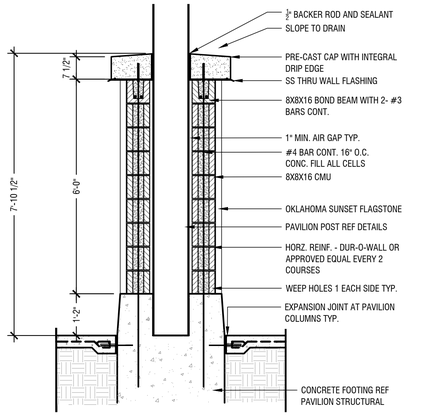

PAVILION POST STONE CLADDING — C

Scale 1/2" = 1' - 0"

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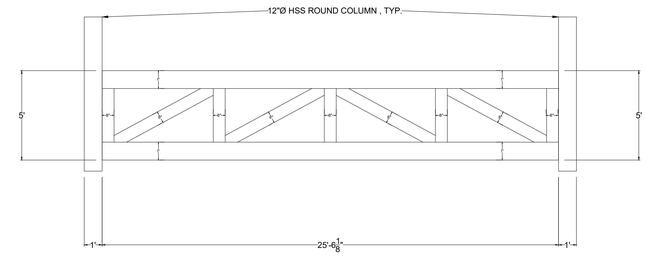
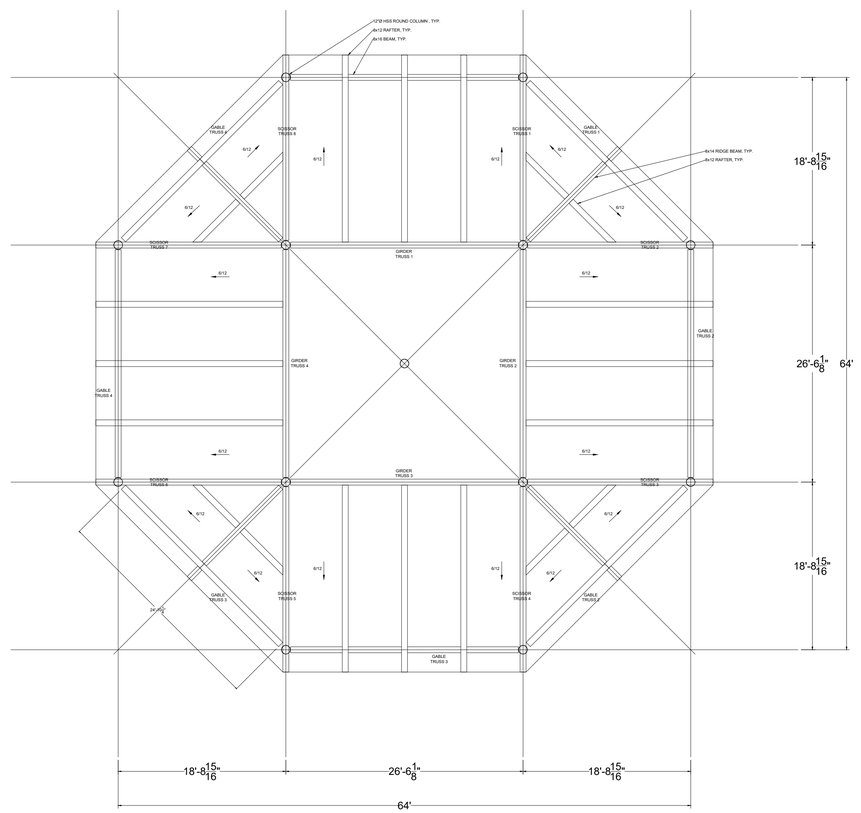


Wood Species	Members	Gusset Plates	Bolting		
RS DF	8x12 TC / BC 8x8 WEBS	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Girder Trusses
				Drawing Date	9/13/22
				Quantity	4

SWC STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235 — Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - GIRDER TRUSSES — B

Scale 1/4" = 1'-0"



Wood Species	Members	Gusset Plates	Bolting		
RS DF	VARIES	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Lower Level Layout
				Drawing Date	9/13/22
				Quantity	1

SWC STRUCTURAL WOOD COMPONENTS
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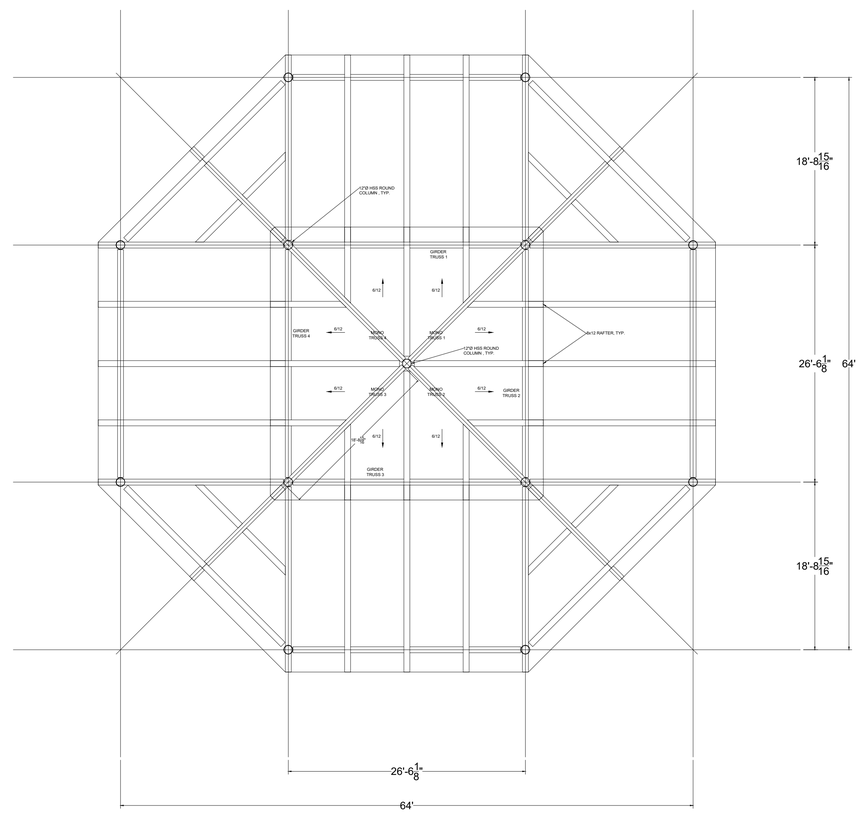

Wood Species	Members	Gusset Plates	Bolting		
RS DF	VARIES	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Upper Level Layout
				Drawing Date	9/13/22
				Quantity	1

SWC STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235 — Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - ROOF LAYOUTS — A

Scale 1/8" = 1'-0"

No.	DATE	BY

Kimley»Horn
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PHONE: 281-559-0500
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS 5 OF 7

SAM COLLINS PARK PHASE 1A

PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
C8.14

Plotted By:Lamberth, Alayna Sheet Set:Kha Layout:C8.14 November 02, 2022 11:40:24am K:\HOU_LA\LP\068925100_sra sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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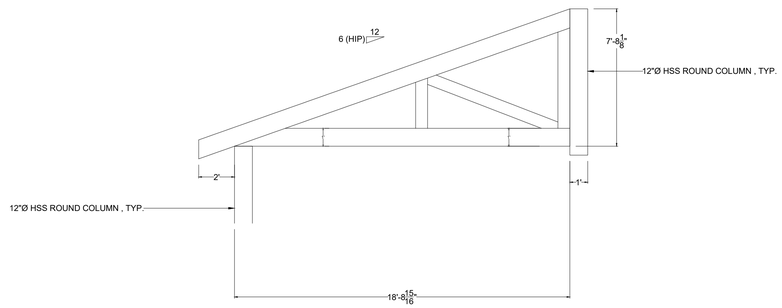
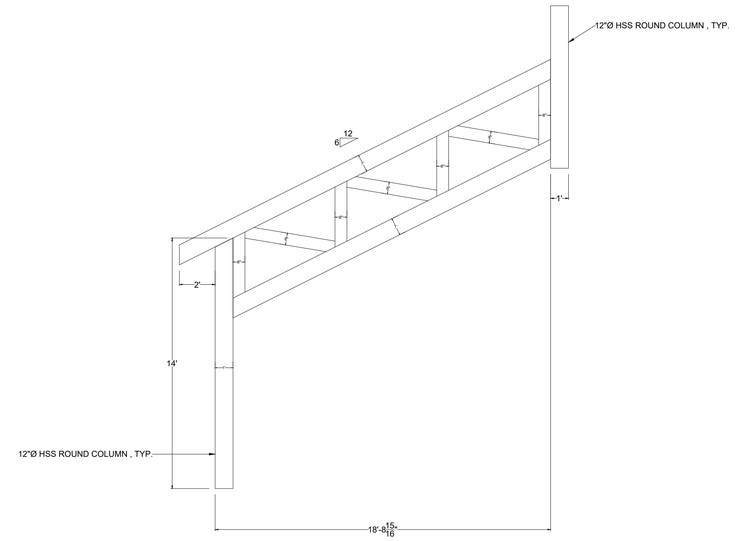


Wood Species	Members	Gusset Plates	Bolting		
RS DF	8x12 TC / BC 8x8 WEBS	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Mono Trusses
				Drawing Date	9/13/22
				Quantity	4

STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235
Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - MONO TRUSSES **D**

Scale 1/4" = 1'-0"

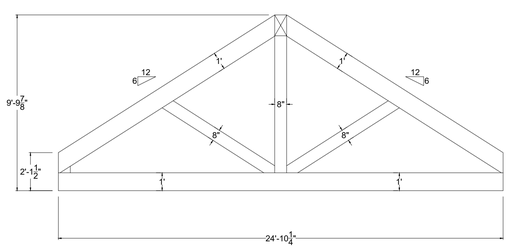


Wood Species	Members	Gusset Plates	Bolting		
RS DF	8x12 TC / BC 8x8 WEBS	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Scissor Trusses
				Drawing Date	9/13/22
				Quantity	8

STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235
Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - SCISSOR TRUSSES **B**

Scale 1/4" = 1'-0"

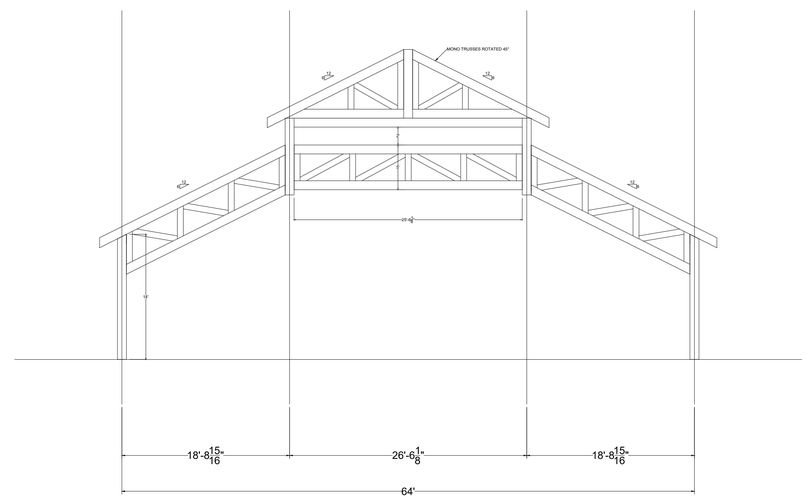


Wood Species	Members	Gusset Plates	Bolting		
RS DF	8x12 TC / BC 8x8 WEBS	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Gable Trusses
				Drawing Date	9/13/22
				Quantity	4

STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235
Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - GABLE TRUSSES **C**

Scale 1/4" = 1'-0"



Wood Species	Members	Gusset Plates	Bolting		
RS DF	VARIES	3/8" EXPOSED FINISH MATTE BLACK	5/8" A307 FINISH MATTE BLACK	Customer Name	Sam Collins Park
				Customer Job	Elevation
				Drawing Date	9/13/22
				Quantity	1

STRUCTURAL WOOD COMPONENTS
PO BOX 35420 Houston, TX 77235
Phone: 281-259-0668 Fax: 281-259-6018

OVERLOOK PAVILION - ELEVATION **A**

Scale 1/8" = 1'-0"

No.	DATE	BY

Kimley»Horn

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PHONE: 281-560-4500
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TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MAYER
2988
STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTTRUCTION DETAILS 6 OF 7

SAM COLLINS PARK PHASE 1A

PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C8.15

Plotted By:Lambeth, Alayna Sheet Set:Kha Layout:C8.15 November 02, 2022 11:40:28am K:\HOU_LAL\068925100_sra sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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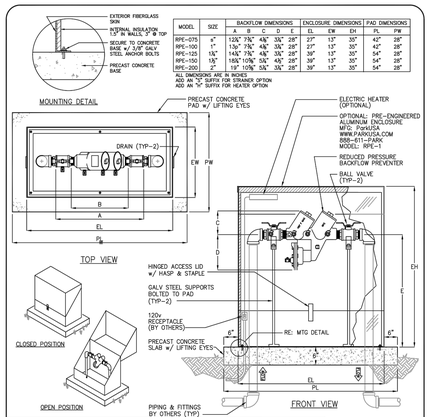


MODEL	SIZE	BACKFLOW DIMENSIONS A	B	C	D	ENCLOSURE DIMENSIONS EL	EW	EH	PAD DIMENSIONS PL	PW
RPC-075	4"	123¾"	79¾"	48¾"	33¾"	28"	27"	13"	35"	42"	28"
RPC-100	1"	130¾"	79¾"	48¾"	33¾"	28"	27"	13"	35"	42"	28"
RPC-125	1¼"	144¾"	79¾"	48¾"	33¾"	28"	39"	13"	35"	54"	28"
RPC-150	1½"	165¾"	109¾"	53¾"	48¾"	28"	39"	13"	35"	54"	28"
RPC-200	2"	191¾"	109¾"	53¾"	33¾"	28"	39"	13"	35"	54"	28"

ALL DIMENSIONS ARE IN INCHES
ADD AN "S" SUFFIX FOR STRAINER OPTION
ADD AN "H" SUFFIX FOR HEATER OPTION

Specifications

CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

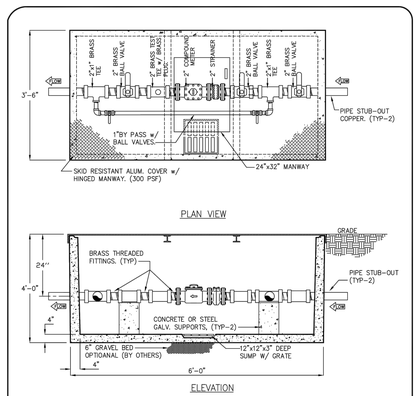
Typical Applications

RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data

The backflow assembly shall be factory assembled on pad & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

HORIZONTAL AND VERTICAL BLOCKING F



Specifications

CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Gross empty weight of approximately 5,000 pounds.

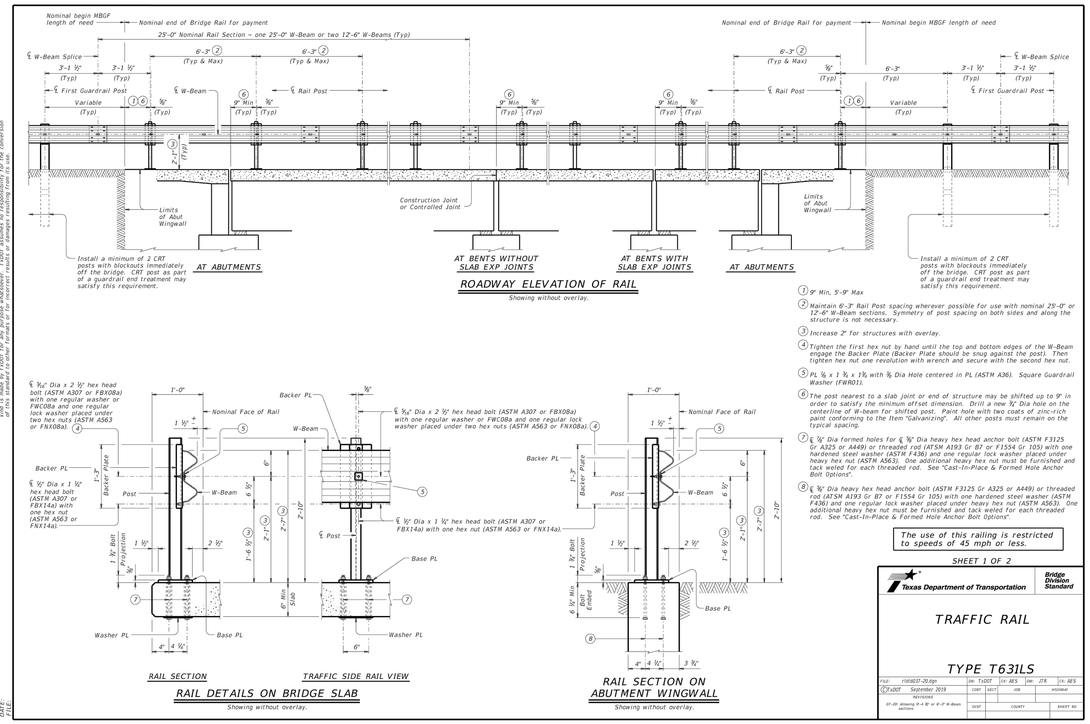
REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

ALUM. COVER: 1/4" aluminum skid-resistant floor plate welded to angle frame & hinged manway.

Engineering Data

Field excavation and preparation shall be completed prior to delivery of assembly. Use dimensional data as shown. Pipe, valves and fittings of the assembly are approved by one or more of the following associations:

HORIZONTAL AND VERTICAL BLOCKING D



1. 9" Min, 5'-9" Max
2. Maintain 6'-3" Rail Post spacing wherever possible for use with nominal 25'-0" or 12'-6" W-Beam sections. Symmetry of post spacing on both sides and along the structure is not necessary.
3. Increase 2" for structures with overlay.
4. Tighten the first hex nut by hand until the top and bottom edges of the W-Beam engage the Backer Plate (Backer Plate should be snug against the post). Then tighten hex nut one revolution with wrench and secure with the second hex nut.
5. PL ⅛ x 1 ⅞ x 1⅞ with ⅞ Dia Hole centered in PL (ASTM A36). Square Guardrail Washer (FWR01).
6. The post nearest to a slab joint or end of structure may be shifted up to 9" in order to satisfy the minimum offset dimension. Drill a new ⅞" Dia hole on the centerline of W-beam for shifted post. Paint hole with two coats of zinc-rich paint conforming to the Item "Galvanizing". All other posts must remain on the typical spacing.
7. ℄ ⅞" Dia formed holes for ⅞" Dia heavy hex head anchor bolt (ASTM F3125 Gr A325 or A449) or threaded rod (ATSM A193 Gr B7 or F1554 Gr 105) with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). One additional heavy hex nut must be furnished and tack welded for each threaded rod. See "Cast-In-Place & Formed Hole Anchor Bolt Options".
8. ℄ ⅞" Dia heavy hex head anchor bolt (ASTM F3125 Gr A325 or A449) or threaded rod (ATSM A193 Gr B7 or F1554 Gr 105) with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). One additional heavy hex nut must be furnished and tack welded for each threaded rod. See "Cast-In-Place & Formed Hole Anchor Bolt Options".

The use of this railing is restricted to speeds of 45 mph or less.

SHEET 1 OF 2

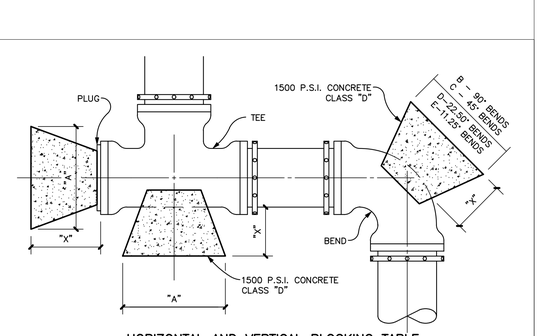
Texas Department of Transportation — Bridge Division Standard

TRAFFIC RAIL

TYPE T631LS

FILE: rt6ti037-20.dgn	DN: TxDOT	CK: AES	DW: JTR	CK: AES
©TxDOT September 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS 07-20: Widening 9'-4 ½" or 6'-3" W-Beam sections.	DIST		COUNTY	SHEET NO.

TXDOT GUARD RAIL DETAIL A



HORIZONTAL AND VERTICAL BLOCKING TABLE

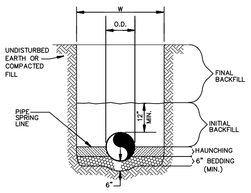
DIMENSION "X" TO BE A MINIMUM OF (1) FOOT, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH WALL.

PIPE SIZE	"X" DIM.	PLUGS & TEES "A"	MIN. AREA sf	90° BENDS "B"	MIN. AREA sf	45° BENDS "C"	MIN. AREA sf	22.50° BENDS "D"	MIN. AREA sf	11.25° BENDS "E"	AREA
6"	1'-6"	1'-6"	2.12	1'-9"	3.0	1'-3"	1.62	1'-0"	.83	1'-0"	
8"	1'-6"	2'-0"	3.77	2'-3"	5.33	1'-9"	2.89	1'-3"	1.47	1'-0"	
10"	1'-6"	2'-5"	5.89	2'-9"	8.33	2'-3"	4.51	1'-6"	2.30	1'-0"	
12"	1'-6"	3'-0"	8.48	3'-6"	12.00	2'-7"	6.49	1'-10"	3.31	1'-3"	1.66
16"	2'-0"	3'-11"	15.08	4'-7"	21.33	3'-6"	11.54	2'-6"	5.88	1'-9"	2.96
20"	2'-0"	4'-10"	23.56	5'-9"	33.32	4'-3"	18.03	3'-0"	9.19	2'-2"	4.62
24"	2'-0"	5'-10"	33.93	7'-0"	48.00	5'-1"	25.97	3'-7"	13.24	2'-7"	6.65
30"	2'-6"	7'-3"	53.04	8'-8"	74.97	6'-4"	40.58	4'-7"	20.69	3'-3"	10.39
36"	3'-0"	8'-9"	76.40	10'-5"	107.96	7'-7"	58.43	5'-6"	29.79	3'-10"	14.97
42"	3'-6"	10'-3"	103.91	12'-2"	146.95	9'-0"	79.53	6'-5"	40.54	4'-6"	20.37

NOTES:

1. BEARING AREAS SHOWN ARE BASED ON 150 PSI TEST PRESSURE AND 3000 PSF ALLOWABLE SOIL BEARING PRESSURE.
2. WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
3. ALL TEES, BENDS, PLUGS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUS OR APPROVED EQUAL.
4. THE LARGER DIAMETER PIPE OF FITTING SHALL GOVERN DIMENSION 'A'.

HORIZONTAL AND VERTICAL BLOCKING E

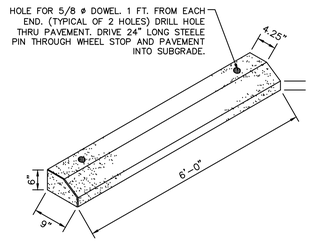


PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	≥ O.D. OF PIPE + 18"

GENERAL NOTES

1. BEDDING SHALL BE CLASS I–A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I–B COMPACTED TO 85% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I–A OR CLASS I–B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I–A WORKED BY HAND, OR CLASS I–B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV–A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321–89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV–A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

UTILITY TRENCH AND BEDDING C



CONCRETE WHEELSTOP

NOT TO SCALE

CONCRETE WHEEL STOP B

Plotted By-Lamberth, Allayna Sheet-Kha Layout-C8.16 November 02, 2022 11:40:29am K:\HOU_LA\PU\68925100_sra sam collins park\CAD\Sheets\CONSTRUCTION DETAILS.dwg
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© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS — MILES HENNINGTON — 139644 — LICENSED PROFESSIONAL ENGINEER
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

CONSTRUCTION DETAILS (7 OF 7)

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
C8.16

DESIGN SPECIFICATIONS AND REFERENCES:

R–1 STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN." 13th EDITION.

R–2 STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATION ACI 318–14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301– 14," SPECIFICATIONS FOR STRUCTURAL CONCRETE".

R–3 STRUCTURAL WELDING CODE" D1.1, LATEST EDITION, BY AMERICAN WELDING SOCIETY.

R–4 REFER TO SOIL BORING INFORMATION AND RECOMMENDATIONS FOR ADDITIONAL INFORMATION.

R–5 REFER TO ENVIRONMENTAL PERMITS FOR ADDITIONAL REQUIREMENTS.

R–6 WIND LOADS ARE BASED ON THE ANSI/ASCE 7–15 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

R–7 WIND LOADS
–Vult = 120 MPH (3 second gust)
–RISK CATEGORY II
–EXPOSURE D

R–8 RETAINING WALL:
A. DEAD LOADS: REINFORCED CONCRETE: 145 PCF.

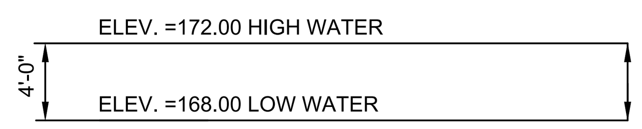
B. VERTICAL LIVE LOADS:

1. BASIC UNIFORM LIVE LOAD: 100 PSF. APPLIED TO BACK OF WALL IN REGULAR CONDITIONS (HIGH AND LOW TIDE FLUCTUATIONS).

R–9 DESIGN ASSUMPTIONS AND RECOMMENDATIONS FOR GEOTECHNICAL WORK IS BASED ON THE REPORT FOR SAM COLLINS PARK (BURKVILLE, TEXAS) PREPARED BY : RINKER ENGINEERING (DRAFT) DATED APRIL 11, 2022 (PROJECT NO. 21–0782)

SURVEYS AND ELEVATION RELATIONSHIP

1. ALL ELEVATIONS REFER TO N.A.V.D. 88 UNLESS OTHERWISE NOTED. THE LOCATION OF MEAN HIGH WATER AND MEAN LOW WATER LINES WERE BASED ON CLIENT DATA.



2. HORIZONTAL CONTROL IS REFERENCED TO NAD83.

3. DRAWINGS WERE DEVELOPED BASED ON A TOPOGRAPHIC AND BATHYMETRIC SURVEY INFORMATION PROVIDED BY AND PREPARED BY WINDROSE LAND SURVEY AND PLATTING DATED 2022 (JOB #57398)

REINFORCED CONCRETE

RC–1 ALL BOAT RAMP AREA CONCRETE SHALL CONTAIN:
A. PORTLAND CEMENT –ASTM C150– TYPE II.
B. FLY ASH – ASTM C618, CLASS F (20%).
C. HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) AND WATER REDUCING ADMIXTURE.
D. LOW WATER–TO–CEMENTITIOUS–MATERIALS RATIO – W/CM < 0.40.
E. LIMIT ON SIZE OF LARGE AGGREGATE – 57 STONE

RC–2 STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, AND SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS, AS WELL AS OTHER PROPERTIES SPECIFIED IN THESE DOCUMENTS. SEE SPECIFICATIONS FOR DESIGN MIX REQUIREMENTS.

CIP RAMPS, WALLS AND FOOTINGS	4,000 PSI
CIP BOAT RAMP	4,000 PSI

RC–3 ALL BOAT RAMP CONCRETE SHALL INCLUDE AQUAFIN–IC CRYSTALLINE WATERPROOFING ADMIXTURE OR AN APPROVED EQUIVALENT. ADMIXTURE USAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.

RC–4 CONCRETE SHALL BE READY–MIX, REGULAR WEIGHT FOR ALL STRUCTURAL USES, WITH MINIMUM DRY DENSITY OF 140 LBS. PER CUBIC FOOT.

RC–5 ALL PUMPED CONCRETE CONTAINING #57 AGGREGATE SHALL CONTAIN A HIGH RANGE WATER REDUCING AGENT. MINIMUM SIZE OF DISCHARGE SHALL BE 4 INCHES.

RC–6 ALL CONCRETE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

RC–7 CHAMFER ALL EXPOSED CONCRETE EDGES, – 1"X1" UNLESS NOTED OTHERWISE.

RC–8 REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318 AND ACI DETAILING MANUAL, ACI 315.

RC–9 REINFORCING STEEL SHALL BE NEW, DEFORMED BARS, FREE OF RUST, SCALE AND OIL, CONFORMING TO ASTM A–615, GRADE 60 WITH A MINIMUM YIELD STRENGTH = 60,000 PSI.

RC–10 LAP SPLICE REINFORCING STEEL AS INDICATED. LAP SPLICES NOT SPECIFICALLY DIMENSIONED SHALL BE IN ACCORDANCE WITH ACI 318, CLASS B AS INDICATED BELOW. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE CAST BELOW THE BARS. IN BEAMS, LAP CONTINUOUS BOTTOM STEEL OVER SUPPORTS AND CONTINUOUS TOP STEEL AT MIDSPAN, UNLESS NOTED OTHERWISE.

BAR SIZE	TOP BARS 5,000 PSI	OTHER BARS 5,000 PSI
#3	23"	17"
#4	30"	23"
#5	37"	28"
#6	45"	34"
#7	64"	49"
#8	73"	56"
#9	82"	63"
#10	93"	71"
#11	103"	78"
#14	123"	94"
#18	163"	125"

REINFORCED CONCRETE CONT.

RC–11 TERMINATE ALL DISCONTINUOUS ENDS OF TOP BARS WITH STANDARDS ACI HOOKS. TURN HOOKS UP OR DOWN INTO SUPPORTING STRUCTURE. CORNER BARS SHALL BE SUPPLIED AND PLACED IN ADDITION TO HOOKED ENDS, PER THE DETAILS IN THESE DOCUMENTS.

RC–12 PROVIDE 3 INCH MINIMUM CONCRETE COVERAGE OVERALL REINFORCING UNLESS NOTED OTHERWISE.

RC–13 ALL PENETRATIONS THROUGH SLABS, BEAMS OR FOOTINGS SHALL BE SLEEVED INDIVIDUALLY. CORE DRILLING OF EXISTING CONCRETE MEMBERS WILL NOT BE PERMITTED, UNLESS NOTED ON PLANS. SUBMIT LOCATIONS AND SIZES OF ALL SLEEVES FOR ENGINEER APPROVAL PRIOR TO CASTING.

RC–14 WHERE WALLS, BEAMS AND CAPS CHANGE DIRECTION, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY AS THE SPECIFIED LONGITUDINAL STEEL.

RC–15 FOLLOW ACI 301, ACI 305 AND ACI 306 FOR HOT AND COLD WEATHER CONCRETE WORK.

RC–16 ALL EMBEDDED ITEMS SHALL BE SECURELY FIXED AND MAINTAINED IN POSITION PRIOR TO AND DURING CONCRETE PLACEMENT.

RC–17 NOT MORE THAN ONE–HALF OF THE REINFORCING BARS SHALL BE SPLICED AT ANY ONE LOCATION, WITH ADJACENT SPLICES STAGGERED NOT LESS THAN ONE LAP SPLICE LENGTH BETWEEN SPLICES.

RC–18 HOOKS AT THE ENDS OF REINFORCING BARS SHALL BE STANDARD ACI 90 DEGREE AND 180 DEGREE HOOKS CONFORMING TO ACI 318.

RC–19 DO NOT CUT, BEND OR OTHERWISE MODIFY REINFORCING STEEL IN THE FIELD. REINFORCING BARS SHALL NOT BE DISPLACED PRIOR TO OR DURING CONCRETE PLACING TO ACCOMMODATE ANCHORS, EMBEDS, OR OTHER ITEMS.

RC–20 CONCRETE CAP SHALL NOT BE POURED WITHIN 300 FEET OF PILE DRIVING OR VIBRATORY HAMMER OPERATIONS TO AVOID CRACKING, SETTLING ON IMPACTS TO CURING.

RC–21 INTENTIONALLY ROUGHEN ALL EXISTING SMOOTH CONCRETE SURFACES TO RECEIVE FRESH CONCRETE PLACEMENT TO AT LEAST A 1/4" AMPLITUDE.

RC–22 CONCRETE BULKHEAD CAP CAN NOT BE POURED WITHIN 7 DAYS OF A PREVIOUS ADJACENT POUR. SKIP POURING WILL BE REQUIRED.

STRUCTURAL STEEL/METALS

S–1 FABRICATION AND ERECTION OF MISCELLANEOUS FABRICATIONS SHALL CONFORM TO THE A.I.S.C. "MANUAL OF STEEL CONSTRUCTION", NINTH EDITION AND THE A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 1989.

S–2 STEEL SHAPES, PLATES, BRACKETS, SEATS AND OTHER FABRICATIONS SHALL BE OF STEEL CONFORMING TO A.S.T.M. A36, WITH A MINIMUM YIELD STRESS OF 36 KSI.

S–3 TUBE SECTIONS SHALL CONFORM TO A.S.T.M. A500, GRADE B WITH A MINIMUM YIELD STRESS OF 46 KSI. PIPE SHALL CONFORM TO A.S.T.M. A501 OR A53, TYPES E OR S, WITH A MINIMUM YIELD STRESS OF 36 KSI.

S–4 UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE 3/4" DIAMETER A325–X AND SHALL BE USED IN BEARING–TYPE CONNECTIONS. ALL HIGH STRENGTH BOLTS SHALL MEET THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. F3125, GR A325, TYPE I BOLTS.

S–5 ALL BOLTS WHICH ARE TO BE CAST INTO CONCRETE SHALL BE A.S.T.M. A36 OR A307, UNLESS NOTED OTHERWISE.

S–6 SUBMIT MISCELLANEOUS FABRICATIONS SHOP AND ERECTION DRAWINGS FOR REVIEW BY THE ENGINEER. ANY SPLICES OR CONNECTIONS NOT FULLY PROVIDED IN THESE PLANS SHALL BE DESIGNED BY A DELEGATED ENGINEER WHO OVERSEES THE DETAILING OF THE STEEL SHOP AND ERECTION DRAWINGS, AND BEAR THE SEAL OF THAT INDIVIDUAL, BEING A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. PROVIDE SIGNED AND SEALED ENGINEERING CALCULATIONS FOR ANY SPECIAL MOMENT SPLICE DESIGNS.

S–7 PILE DRIVING LOGS SHALL BE MAINTAINED AND SHALL BE SUBMITTED TO THE ENGINEER WITHIN TWO DAYS AFTER DRIVING.

S–8 ALL STEEL PIPE PILES SHALL BE SANDBLASTED TO A NEAR WHITE FINISH AND COATED WITH 16 MILS TOTAL DFT OF COAL TAR EPOXY. COATING SHALL EXTEND AS INDICATED.

S–9 HAND RAILINGS AND LADDER SHALL BE PAINTED PURE WHITE TO MATCH EXISTING BASED ON A THREE PART SYSTEM CONSISTING OF A ZINC RICH PRIMER, EPOXY PAINT AND URETHANE FINISH COAT WITH A MINIMUM DRY FILM THICKNESS OF 16 MILS. THE COATING SYSTEM SHALL BE APPROVED PRIOR TO ANY WORK.

WELDING

W–1 WELDING OF METAL FABRICATIONS SHALL CONFORM TO (AWS) "STRUCTURAL WELDING CODE– STEEL", D1.1.

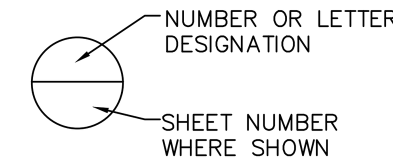
W–2 ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED AND APPROVED WELDERS.

W–3 ALL WELDED CONNECTIONS SHALL BE PRE–QUALIFIED IN ACCORDANCE WITH AWS D1.1.

W–4 ALL WELDED STEEL CONNECTIONS SHALL BE MADE USING SHIELDED METAL ARC PROCESS, OR APPROVED EQUAL, WITH ELECTRODES CONFORMING TO E70XX.

W–5 ALL WELDS (SHOP AND FIELD) SHALL BE INSPECTED (VISUAL AND RT, MT AND BY AWS CERTIFIED WELDING INSPECTORS (CWI) PER SPECIFICATIONS..

SECTION/DETAIL KEY



No.	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

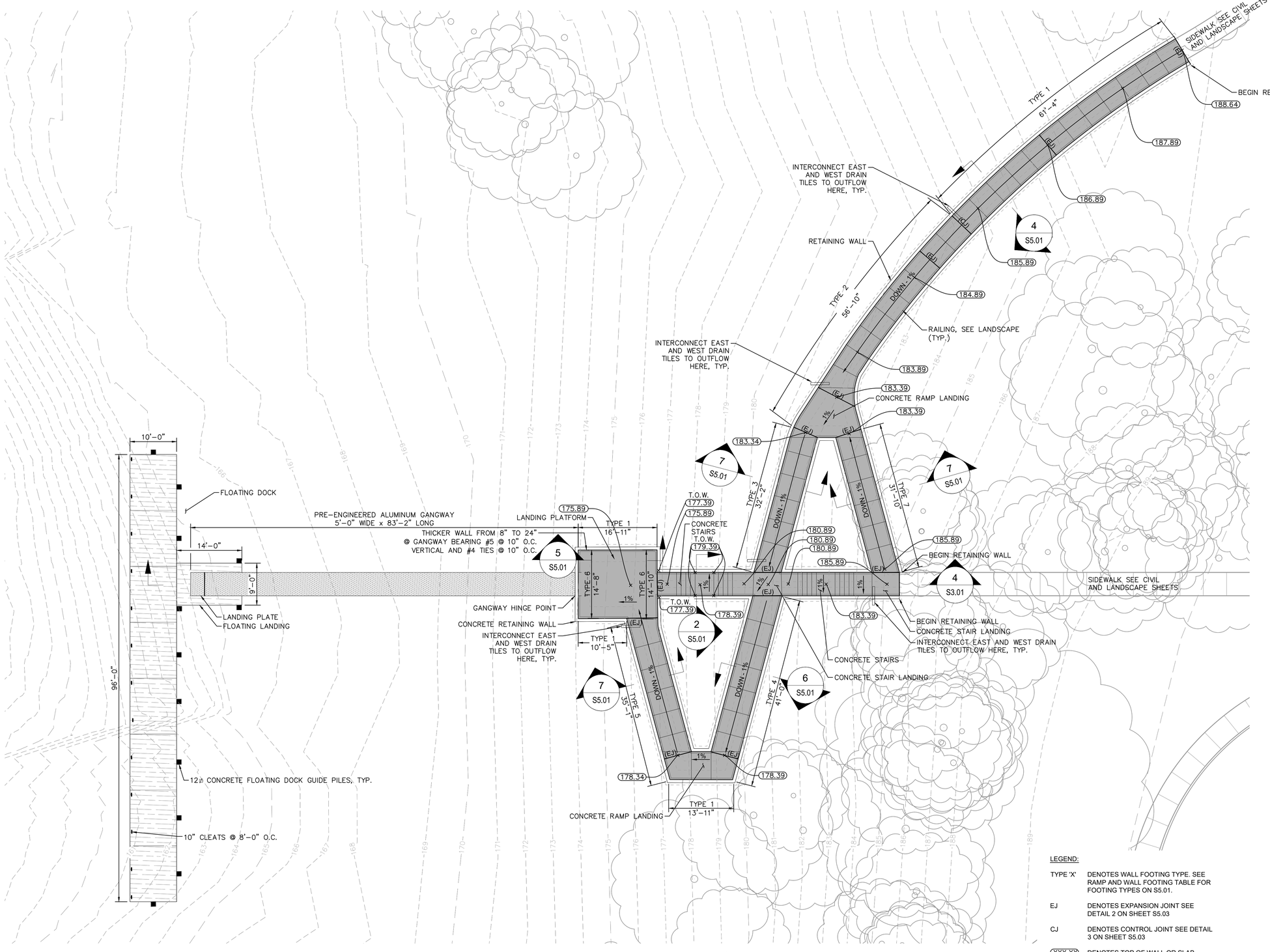
STATE OF TEXAS
JON CASEY LONG
94119
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT 068925100
DATE NOV. 1, 2022
SCALE AS SHOWN
DESIGNED BY JCL
DRAWN BY AMG
CHECKED BY JCL

STRUCTURAL NOTES

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
S0.01



1 S1.00 ENLARGED PLAN
SCALE: 1" = 10'

LEGEND:

TYPE 'X'	DENOTES WALL FOOTING TYPE. SEE RAMP AND WALL FOOTING TABLE FOR FOOTING TYPES ON S5.01.
EJ	DENOTES EXPANSION JOINT SEE DETAIL 2 ON SHEET S5.03
CJ	DENOTES CONTROL JOINT SEE DETAIL 3 ON SHEET S5.03
(XXX.XX)	DENOTES TOP OF WALL OR SLAB ELEVATIONS
T.O.W.	DENOTES SPECIAL TOP OF WALL ELEVATION

No.	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-597-2000
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
JON CASEY LONG
94119
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 1, 2022
SCALE	AS SHOWN
DESIGNED BY	JCL
DRAWN BY	AMG
CHECKED BY	JCL

ENLARGED PLAN

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

S1.00

Plotted By:EGrieves, Atmyr Sheet Size:44hs, Layout:S1.00 ENLARGED PLAN, November 29, 2022 04:06:28pm -K:\TXPB-Civil Structural\Projects - Holdson Office\068925100_Sam Collins Park\CAD\PlanSheets\S1.00 ENLARGED PLAN.dwg
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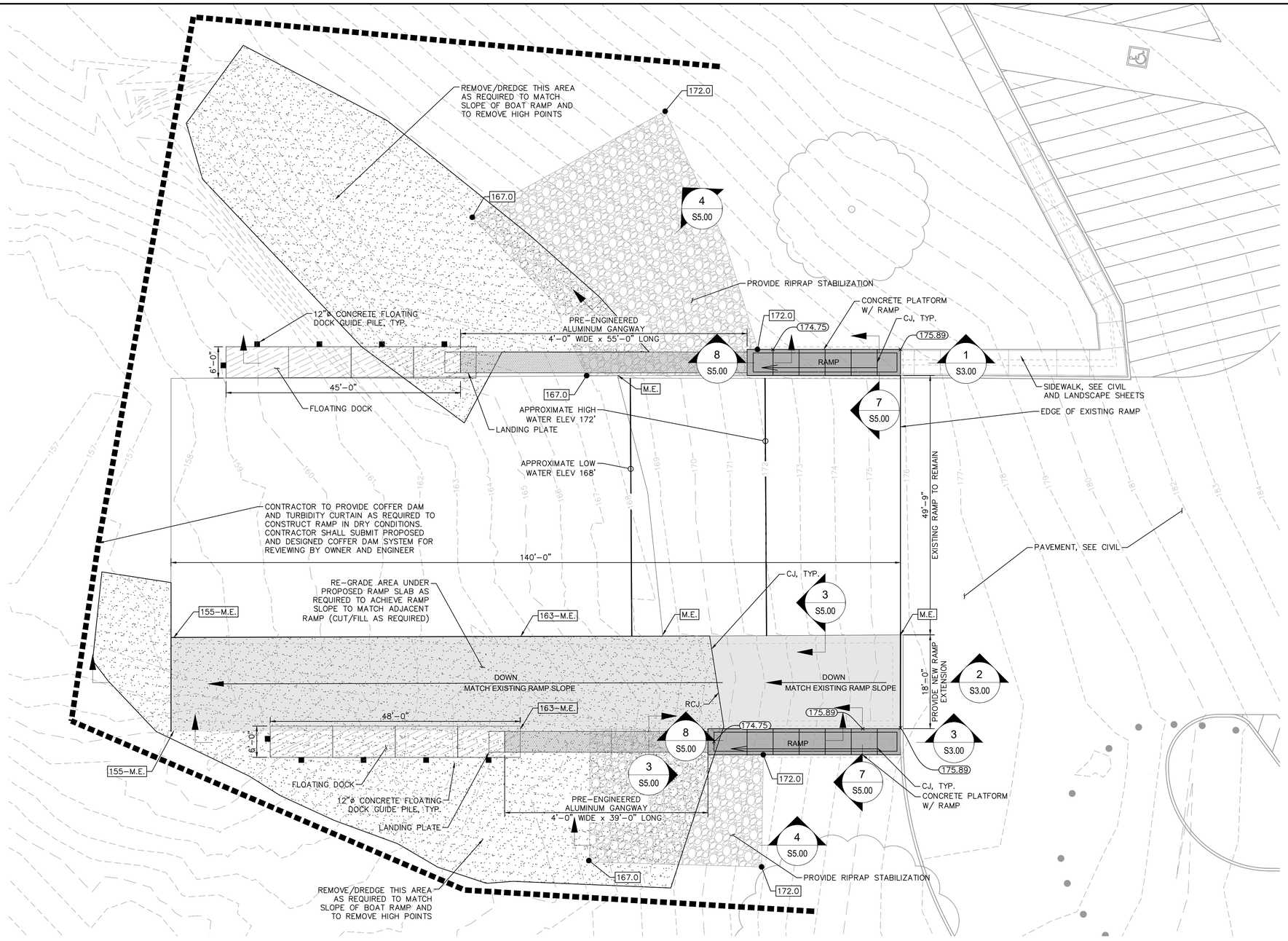

1 S1.01 ENLARGED PLAN
SCALE: 1" = 10'

NORTH

NOTE:
ACCU OR APPROVED EQUAL GALVANIZED STEEL OR ALUMINUM POLY FLOATS TREK STYLE COLORS BY OWNER. PHYSICAL SAMPLE 10' O.C. BUMPER, 1-1.5 2 SECOND PERIOD, 60PSF SIZED AND ENGINEERED.

LEGEND:

XXX.XX	DENOTES TOP OF BOAT RAMP OR RIPRAP ELEVATION.
(XXX.XX)	DENOTES TOP OF WALL ELEVATION
RCJ	DENOTES RAMP CONTROL JOINT SEE S5.00
CJ	DENOTES SLAB CONTROL JOINT, SEE S5.03

No.	DATE	BY

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TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
JON CASEY LONG
94119
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 1, 2022
SCALE	AS SHOWN
DESIGNED BY	JCL
DRAWN BY	AMG
CHECKED BY	JCL

ENLARGED PLAN

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY

BURKEVILLE TEXAS

SHEET NUMBER

S1.01

Plotted By:Eric.Ivey, Alan.Sheet Set:44ks Layout:S1.01-ENLARGED PLAN November 02, 2022 04:08:43pm I:\DWP\B-Civil\Structures\Tx\Bs - J:\Solution Office\068925100_Sam Collins Park\CAD\PlanSheets\S1.00 ENLARGED PLAN.dwg
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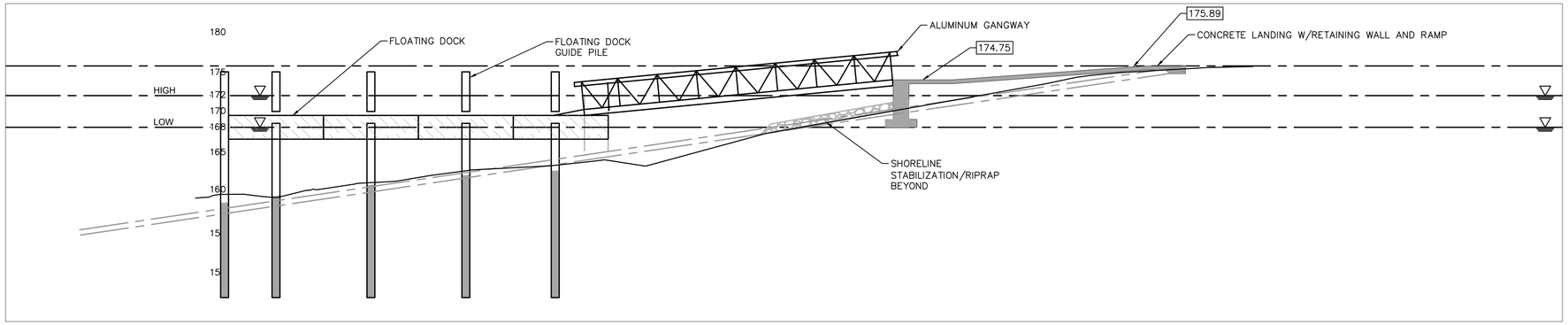
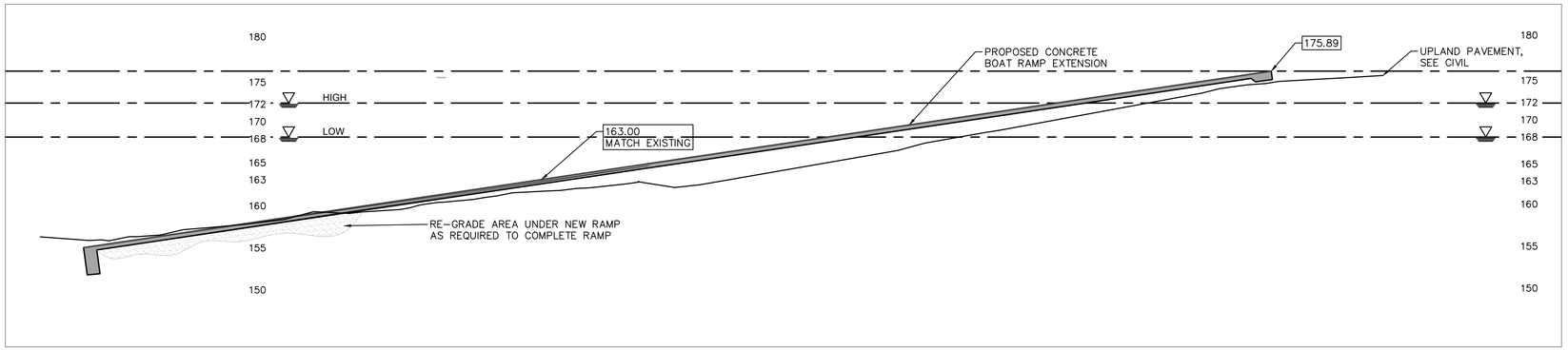


1 / S3.00 FLOATING DOCK SECTION
SCALE: 1-1/2" = 1'-0"



2 / S3.00 BOAT DOCK SECTION
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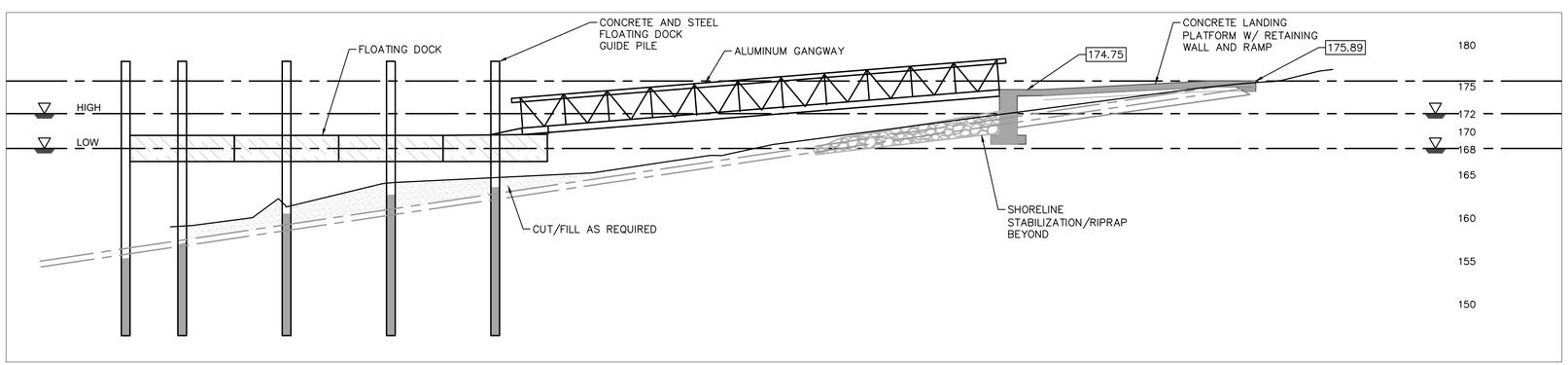

3 / S3.00 FLOATING DOCK SECTION
SCALE: 1-1/2" = 1'-0"

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STATE OF TEXAS
JON CASEY LONG
94119
LICENSED
PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT 068925100
DATE NOV. 1, 2022
SCALE AS SHOWN
DESIGNED BY JCL
DRAWN BY AMG
CHECKED BY JCL

BOAT RAMP SECTIONS

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
S3.00

Plotted By:Eprakes,Aaron Sheet: S3HKHs Layout:S3.00-BOAT RAMP SECTIONS November 02, 2022 2:04:07 PM\pw\\\K:\KPE_\Civil Structures\Trinidad\ - Houston Office\068925100_Sam Collins Park\CAD\PlanSheets\S3.00 BOAT RAMP SECTIONS.dwg
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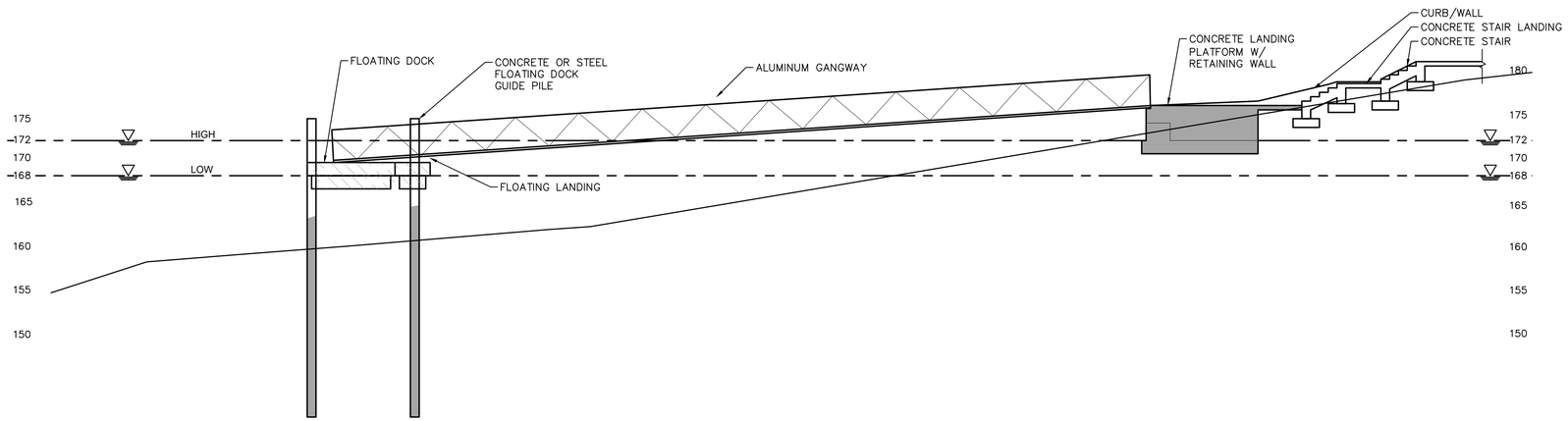

4
S3.01

CONVENIENCE DOCK SECTION 1

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

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STATE OF TEXAS
JON CASEY LONG
94119
LICENSED
PROFESSIONAL ENGINEER
11/01/2022

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CONVENIENCE DOCK SECTIONS

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
S3.01

Plotted By:Gregory Abner Sheet Size:ANSI D Layout:S3.01-CONVENIENCE DOCK SECTIONS Novembe:02, 2022 04:07:29pm K:\WTB\Civil Structures\Trails - Rivulon Office\068925100_Sam Griffin Park\CAD\PlanSheets\S3.01-CONVENIENCE DOCK SECTIONS.dwg
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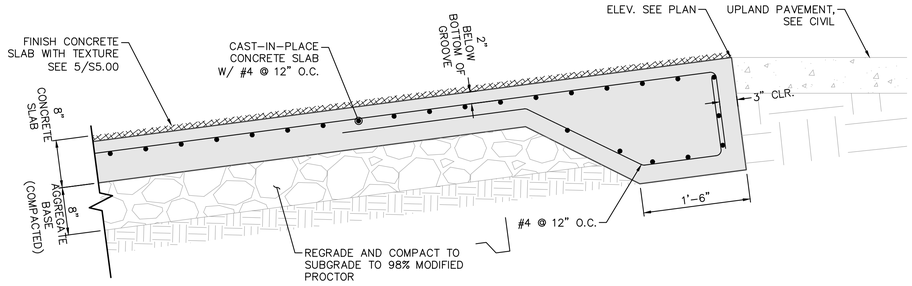
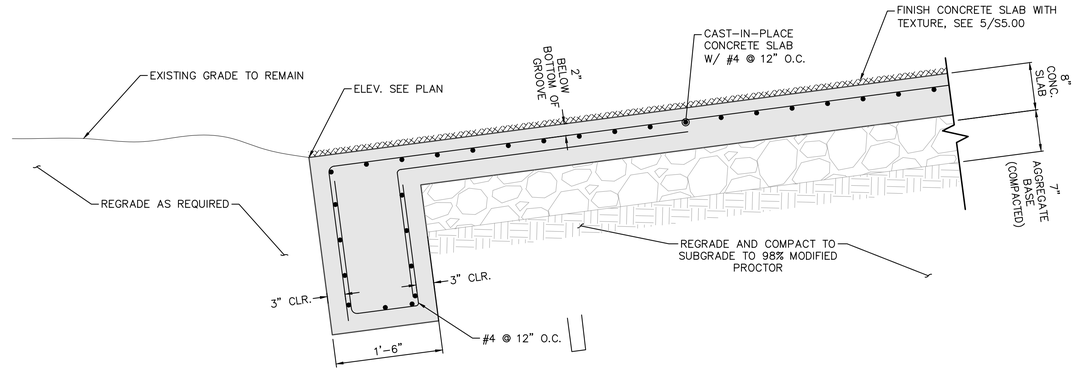
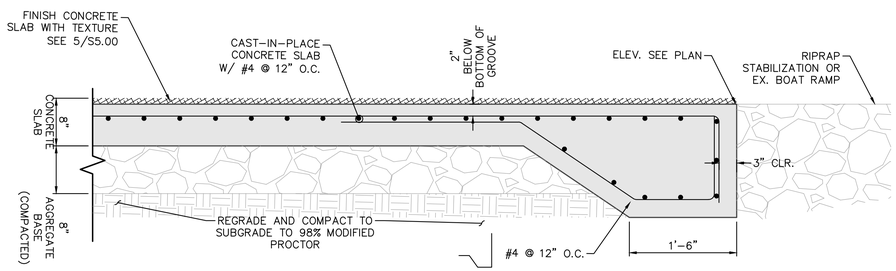


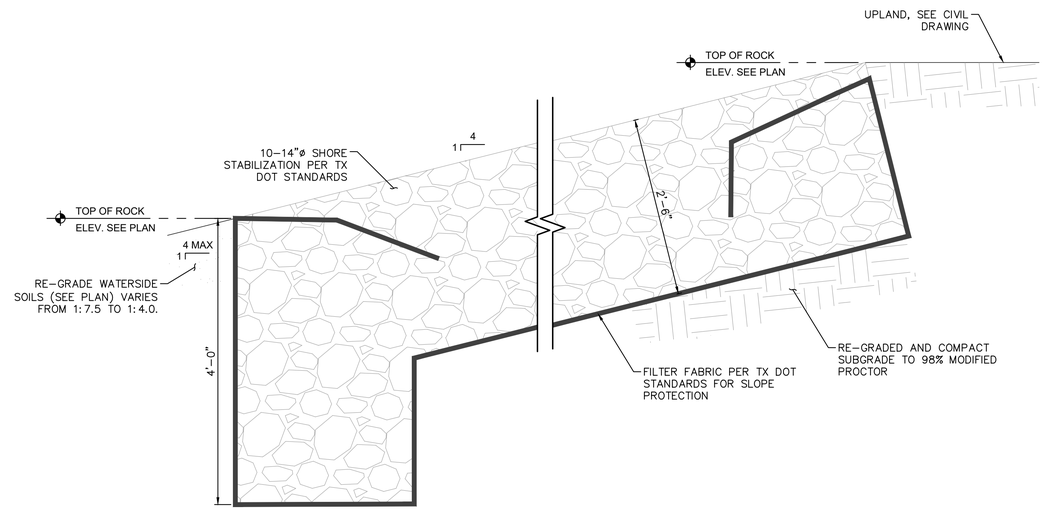
1 / S5.00 BOAT RAMP - RAMP SLAB THICKENED EDGE DETAIL
SCALE: 1" = 1'-0"



2 / S5.00 BOAT RAMP - RAMP SLAB TOE DETAIL
SCALE: 1" = 1'-0"

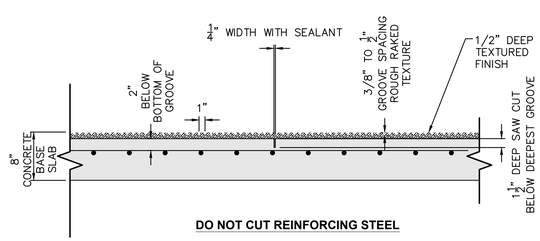


3 / S5.00 BOAT RAMP - RAMP SLAB THICKENED EDGE DETAIL
SCALE: 1" = 1'-0"

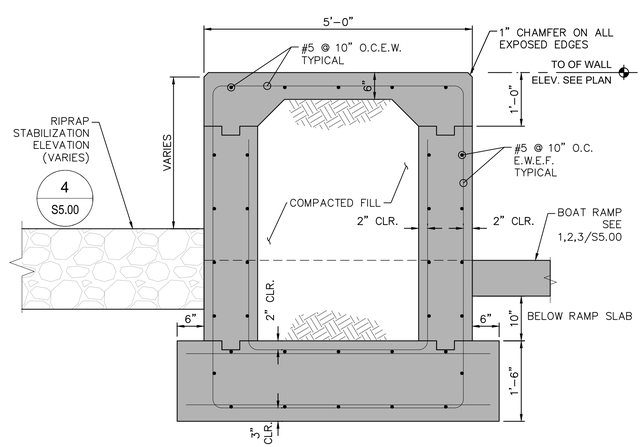


4 / S5.00 BOAT RAMP - RAMP SLAB THICKENED EDGE DETAIL
SCALE: 1" = 1'-0"

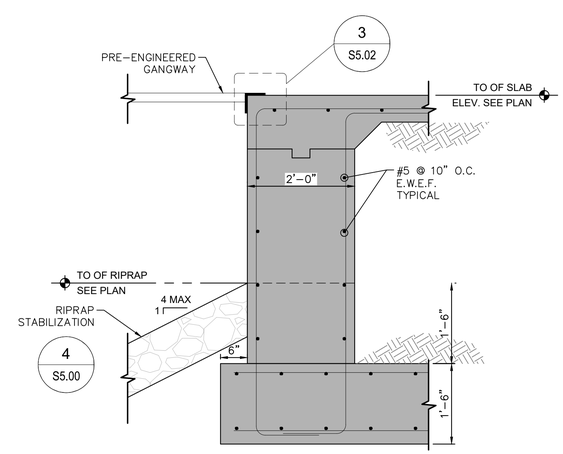
5 / S5.00 BOAT RAMP - RAMP SLAB TEXTURING DETAIL
SCALE: 1" = 1'-0"



6 / S5.00 BOAT RAMP SLAB CONTROL JOINT DETAILS (R-CJ)
SCALE: 1" = 1'-0"



7 / S5.00 BOAT RAMP WALL SECTION
SCALE: 3/4" = 1'-0"



8 / S5.00 BOAT RAMP WALL SECTION
SCALE: 3/4" = 1'-0"

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-597-1200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
JON CASEY LONG
94119
LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	NOV. 1, 2022
SCALE	AS SHOWN
DESIGNED BY	JCL
DRAWN BY	AMG
CHECKED BY	JCL

BOAT RAMP DETAILS

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
S5.00

Plotted By:Graves, Aaron Sheet Set:44ts, Layout:S5.00 BOAT RAMP DETAILS Xrefs:25100_Sam Collins Park\CAD\PlanSheets\S5.00 BOAT RAMP DETAILS.dwg
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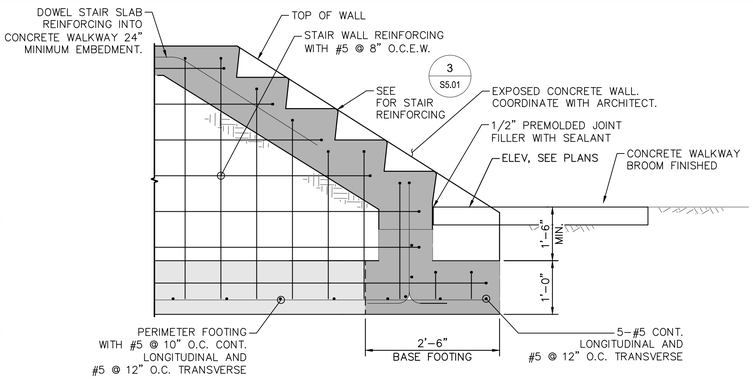
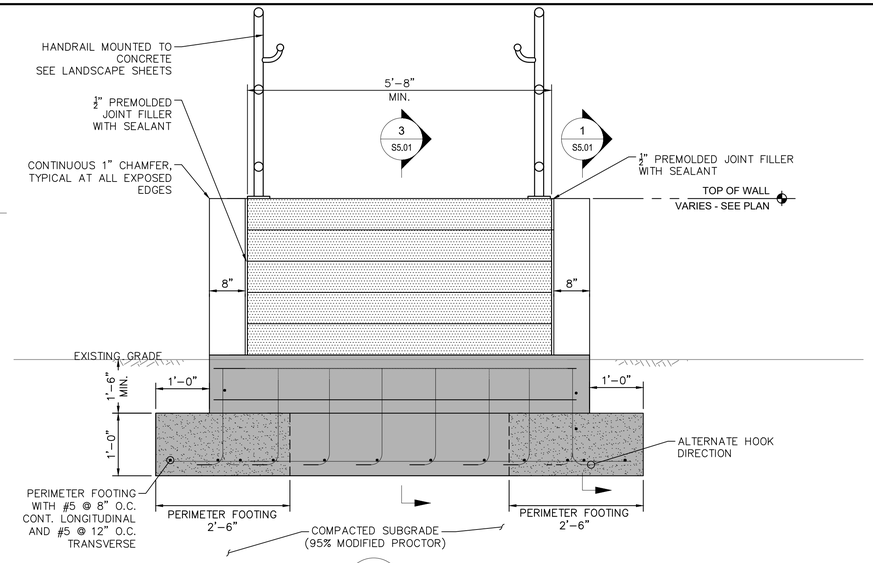
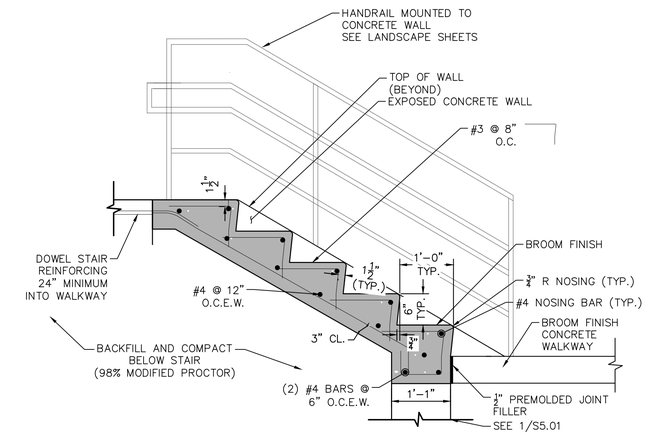


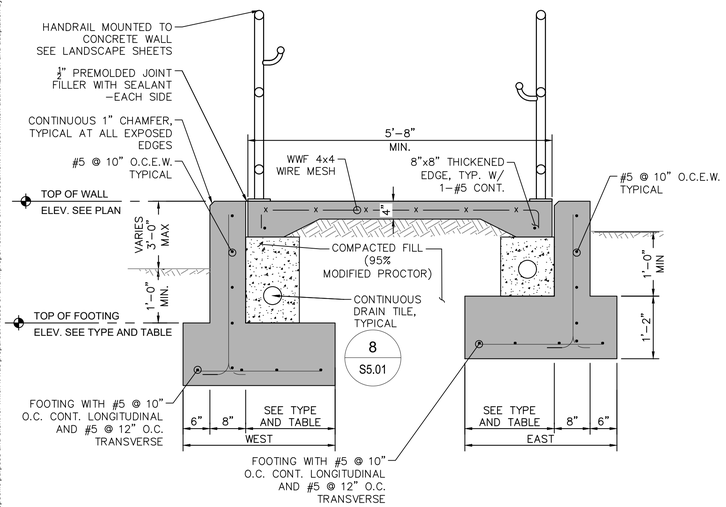
1 S5.01 BULKHEAD STAIR DETAIL
SCALE: 3/4" = 1'-0"



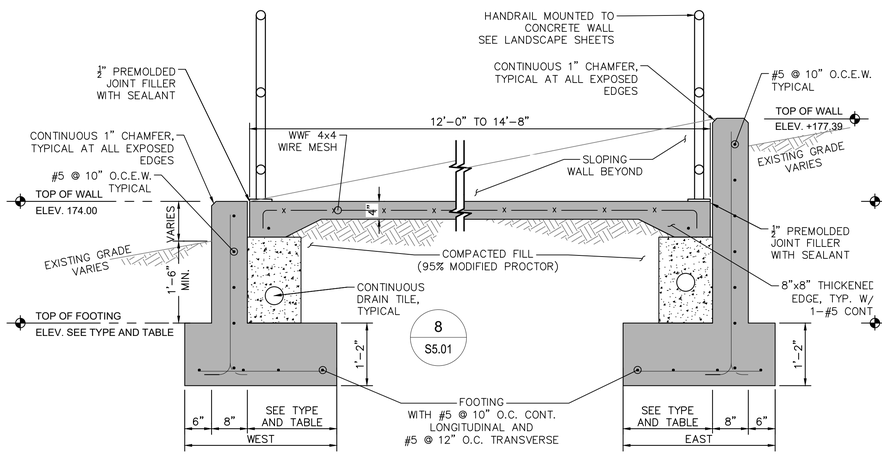
2 S5.01 SECTION @ BASE TREAD
SCALE: 3/4" = 1'-0"



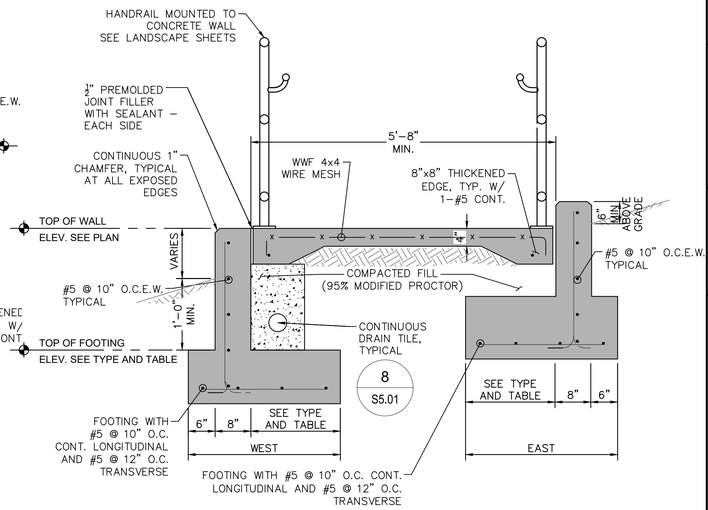
3 S5.01 STAIR REINFORCEMENT DETAIL
SCALE: 3/4" = 1'-0"



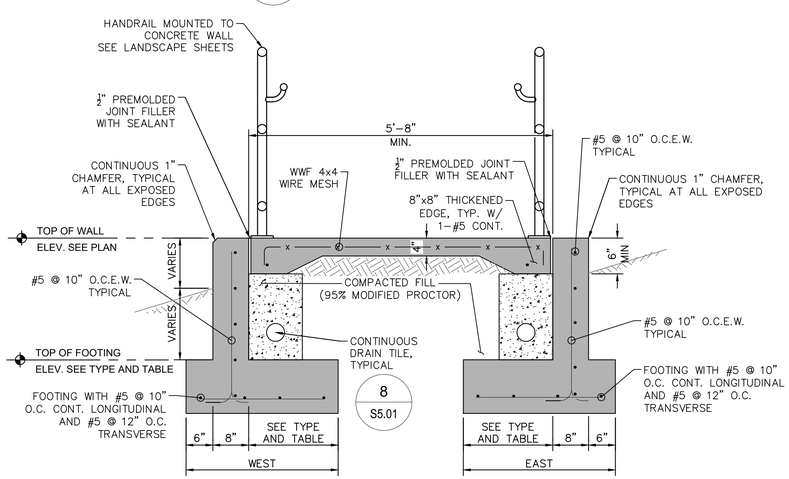
4 S5.01 RAMP SECTION (TYPE 1)
SCALE: 3/4" = 1'-0"



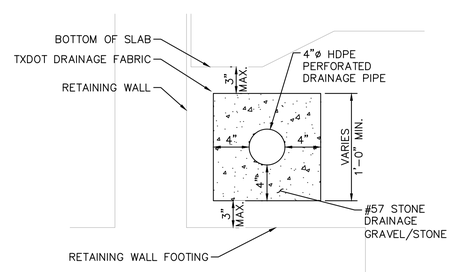
5 S5.01 LANDING PLATFORM SECTION (TYPE 6)
SCALE: 3/4" = 1'-0"



6 S5.01 RAMP SECTION (TYPE 4)
SCALE: 3/4" = 1'-0"



7 S5.01 RAMP SECTION (TYPE 2,3,5 AND 7)
SCALE: 3/4" = 1'-0"



8 S5.01 DRAIN TILE DETAIL
SCALE: 1-1/2" = 1'-0"

RAMP AND WALL FOOTING TABLE

TYPE	TOP OF FOOTING ELEV.	WIDTH	DETAIL
1	1 FOOT BELOW GRADE (MIN.) EAST AND WEST TOP OF FOOTING ELEVATION TO MATCH	1'-8"	4 / S5.01
2	180.39 EAST AND WEST	2'-6"	7 / S5.01
3	179.39 EAST AND WEST	2'-6" (W) / 1'-6" (E)	7 / S5.01
4	178.89 EAST AND 177.89 WEST	1'-6"	6 / S5.01
5	174.89 EAST AND 175.89 WEST	1'-6"	7 / S5.01
6	173.39 EAST AND WEST	2'-0"	5 / S5.01
7	181.89 EAST AND WEST	2'-0"	7 / S5.01

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PHONE: 281-597-1900
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STATE OF TEXAS
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94119
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11/01/2022

KHA PROJECT	068925100
DATE	NOV. 1, 2022
SCALE	AS SHOWN
DESIGNED BY	JCL
DRAWN BY	AMG
CHECKED BY	JCL

CONVENIENCE DOCK RAMP DETAILS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
S5.01

Plotted By:Graves, Anne Sheet Set:Kha Layout:S5.01 CONVENIENCE DOCK DETAILS November 02, 2022 04:08:29pm K:\WPB_Civil Structures\Texas - Houston Office\068925100_Sam Collins Park\CAD\PlanSheets\S5.01 CONVENIENCE DOCK DETAILS.dwg
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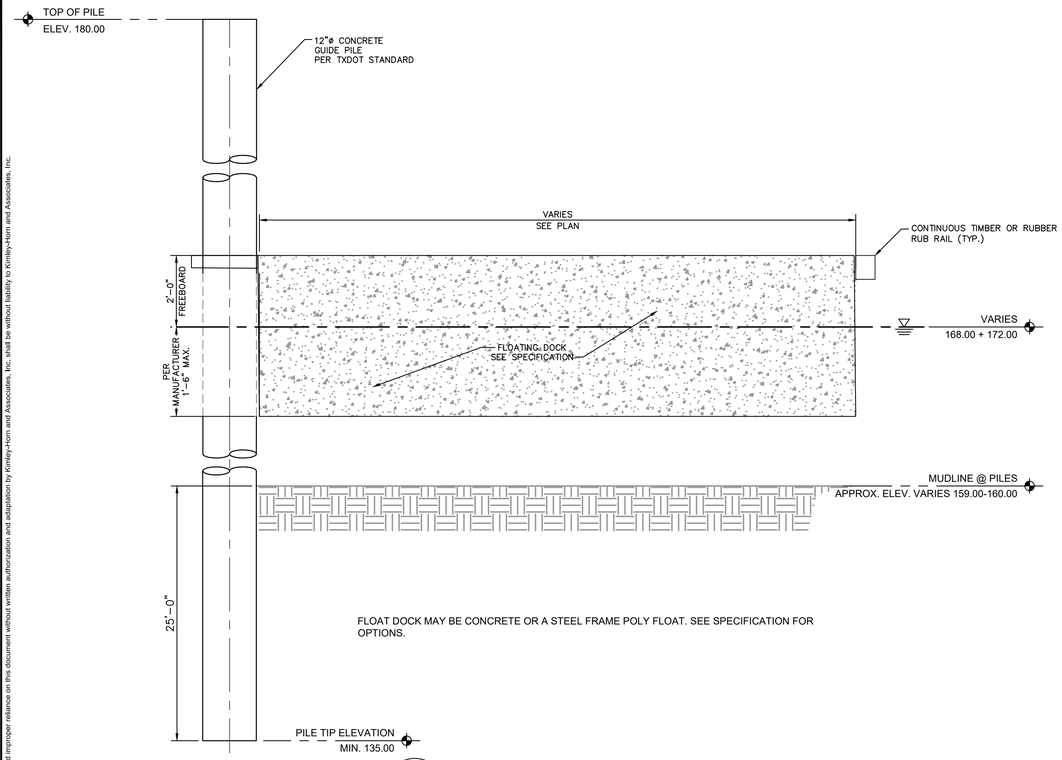
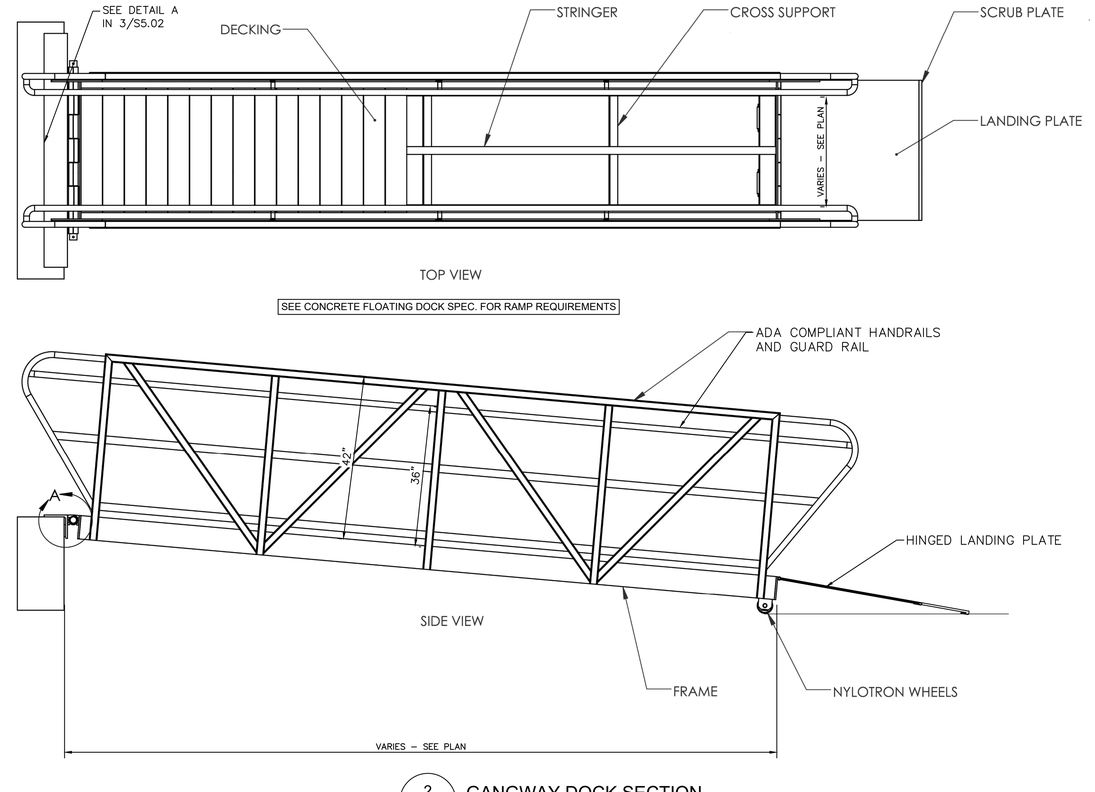
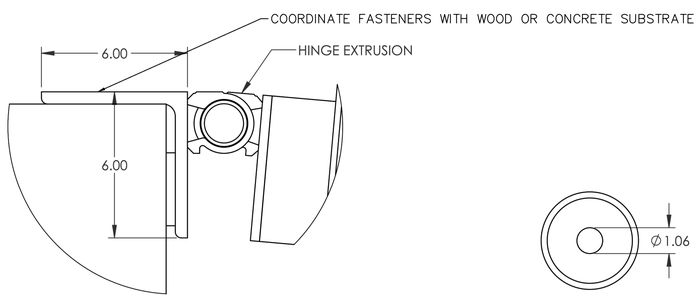


FLOAT DOCK MAY BE CONCRETE OR A STEEL FRAME POLY FLOAT. SEE SPECIFICATION FOR OPTIONS.

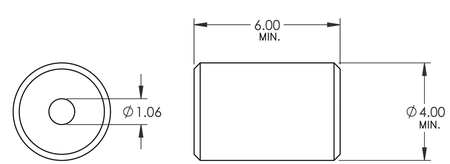
1 / S5.02 FLOATING DOCK SECTION
SCALE: N.T.S



2 / S5.02 GANGWAY DOCK SECTION
SCALE: N.T.S



DETAIL A – SUPPORT MOUNT



NYLOTRON WHEEL

ALL MATERIALS OTHER THAN DECKING SHALL BE ALUMINUM OR STAINLESS STEEL.

3 / S5.02 MISC. MATERIALS
SCALE: N.T.S

ELEMENTS SHOWN ON THIS SHEET ARE SHOWN IN CONCEPT. FINAL DESIGN AND DETAILS SHALL BE PREPARED BY A SPECIALTY ENGINEER RETAINED BY CONTRACTOR FOR ALL FLOATING DOCKS AND GANGWAYS.

No.	DATE	BY

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
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STATE OF TEXAS
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KHA PROJECT 068925100
DATE NOV. 1, 2022
SCALE AS SHOWN
DESIGNED BY JCL
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FLOATING DOCK DETAILS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
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BURKEVILLE TEXAS

SHEET NUMBER
S5.02

Plotted By:Graves, Aaron Sheet Set:kHs Layout:FLOATING DOCK DETAILS November 02, 2022 9:14:08 :kdjph K:\WPB_Civil Structural\Texas >Hidalgo\Office\068925100 -Sam Collins Park\CAD\PlanSheets\S5.01 CONVENIENCE DOCK DETAILS.dwg
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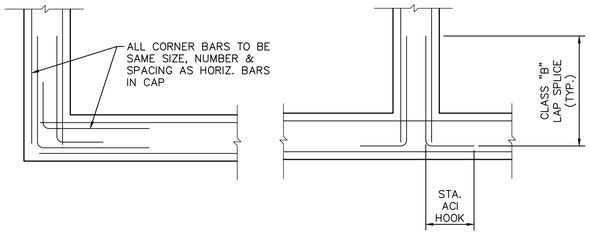
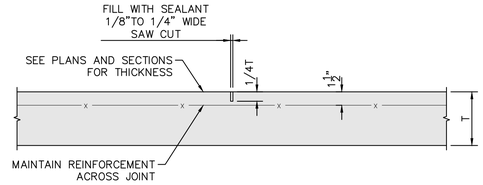


1 / S5.03 TYPICAL CORNER REINFORCING DETAIL

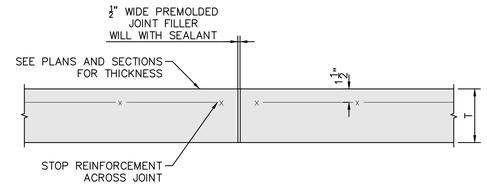
SCALE: 1" = 1'-0"



2 / S5.03 RAMP, DECK AND STAIR SLAB CONTROL JOINT (CJ)

SCALE: N.T.S

NOT FOR BOAT RAMP SLAB



3 / S5.03 RAMP, DECK AND STAIR SLAB EXPANSION JOINT (EJ)

SCALE: N.T.S

NOT FOR BOAT RAMP SLAB

No.	DATE	BY

Kimley»Horn

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DATE	NOV. 1, 2022
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CHECKED BY	JCL

TYPICAL DETAILS

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
S5.03

Plotted By:Gregory Abner Sheet Size:ANSI D Layout:S5.03-TYPICAL DETAILS Nov/mm/dd 02, 2022 04:08:48pm J:\WPB\Civil Structures\Trolls - Irrigation Official\068925100_Sam Collins Park\CAD\PlanSheets\S5.01 CONVENIENCE DOCK DETAILS.dwg
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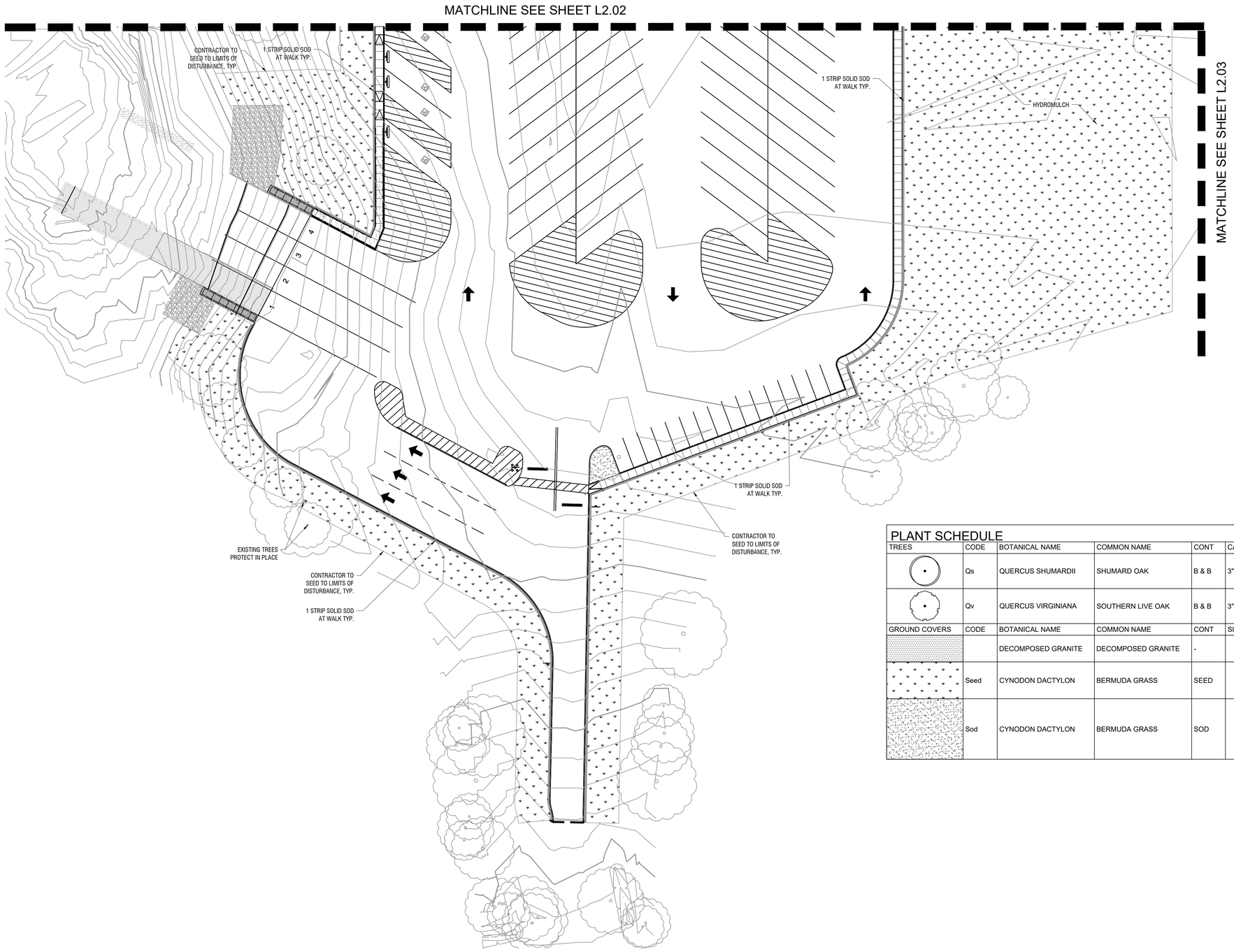
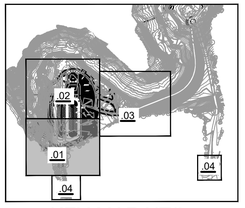


PLANT SCHEDULE

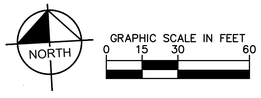
TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	CALIPER	SIZE	QTY	REMARKS
	Qs	QUERCUS SHUMARDII	SHUMARD OAK	B & B	3"-4" CAL	12'-14' H X 6'-7' W	2	STRAIGHT TRUNK, FULL AND MATCHING
	Qv	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	B & B	3"-4" CAL	12'-14' H X 6'-7' W	9	STRAIGHT TRUNK, FULL AND MATCHING
GROUND COVERS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SIZE**	**SPACING**	**QTY**	**REMARKS**
		DECOMPOSED GRANITE	DECOMPOSED GRANITE	-			101 SF	
	Seed	CYNODON DACTYLON	BERMUDA GRASS	SEED			250,000 SF	HYDROSEED 1 LB PER 1,000 SF; USE FLEXTERRA HIGH PERFORMANCE-FLEXIBLE GROWTH MEDIUM (HP-FGM) ON ALL SLOPES 4:1 OR GREATER TO PREVENT EROSION
	Sod	CYNODON DACTYLON	BERMUDA GRASS	SOD			10,000 SF	SOLID SOD, ROLLED TIGHT WITH SAND FILLED JOINTS, 100% WEED, DISEASE, AND PEST FREE STRIPS TO BE 16" MIN. WIDTH



KEY MAP NTS

PLANTING PLAN

Scale: 1:30



No.	DATE	BY

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PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

REGISTERED LANDSCAPE ARCHITECT
KRISTINA N. MALEK
2988
STATE OF TEXAS

11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

PLANTING PLAN
1 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

L2.01

Plotted By:Luong, Emily Sheet Set:Kha Layout:L2.01 November 01, 2022 04:17:31pm K:\HOU_LAL\P068925100_SRA Sam Collins Park\CAD\Sheets\L1.00 - PLANTING PLAN .dwg
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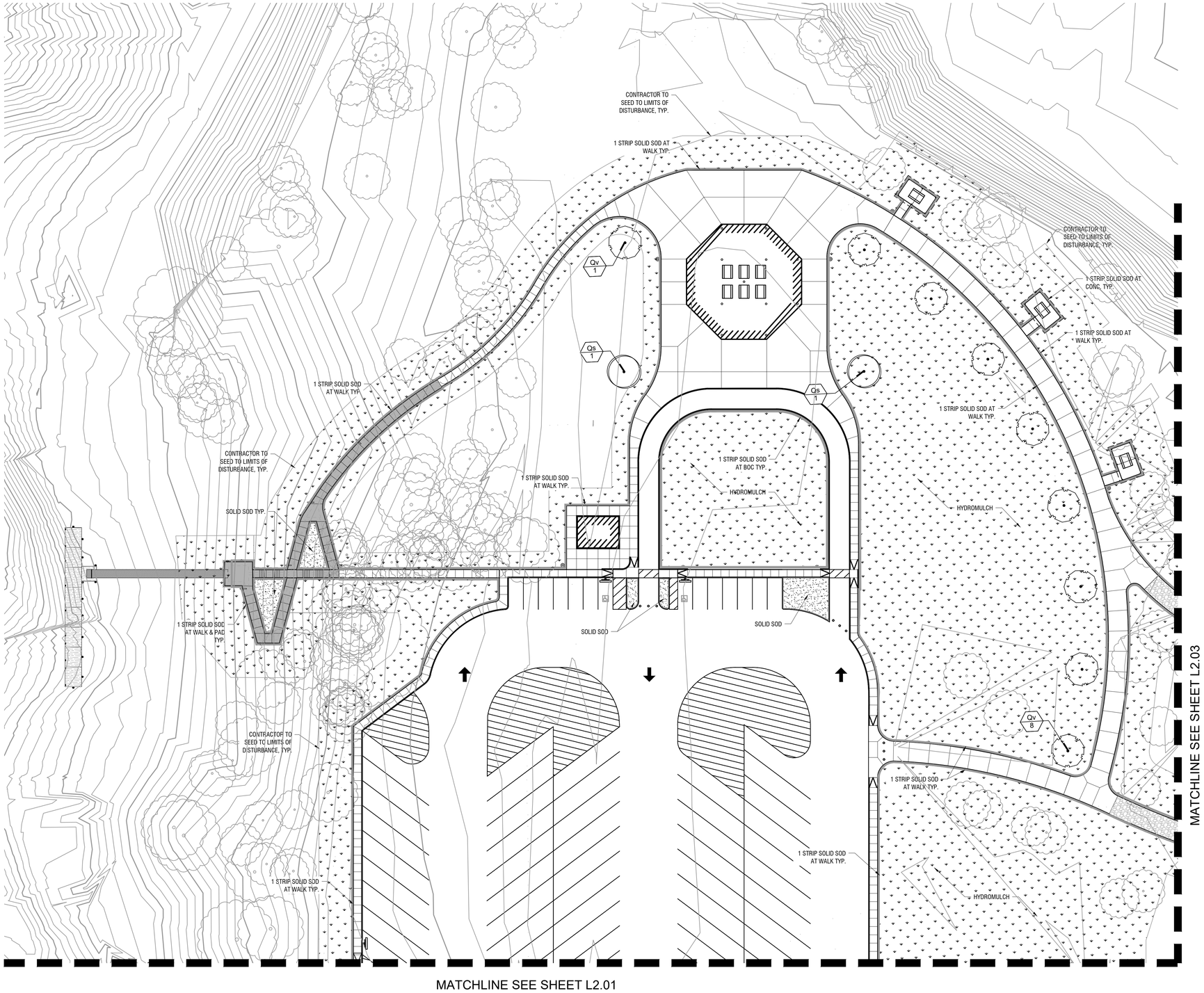
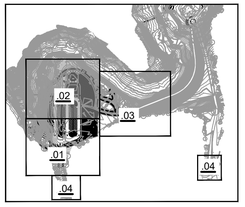


PLANT SCHEDULE

TREES	CODE	COMMON NAME
	Qs	SHUMARD OAK
	Qv	SOUTHERN LIVE OAK
GROUND COVERS	**CODE**	**COMMON NAME**
		DECOMPOSED GRANITE
	Seed	BERMUDA GRASS
	Sod	BERMUDA GRASS



KEY MAP NTS

PLANTING PLAN

Scale: 1:30

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	DATE	BY

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STATE OF TEXAS

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PLANTING PLAN
2 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

SHEET NUMBER

L2.02

Plotted By:Luong, Emily Sheet Set:Kha Layout:L2.02 November 01, 2022 04:17:55pm K:\HOU_LA\LP\068925100_SRA Sam Collins Park\CAD\Sheets\L1.00 - PLANTING PLAN .dwg
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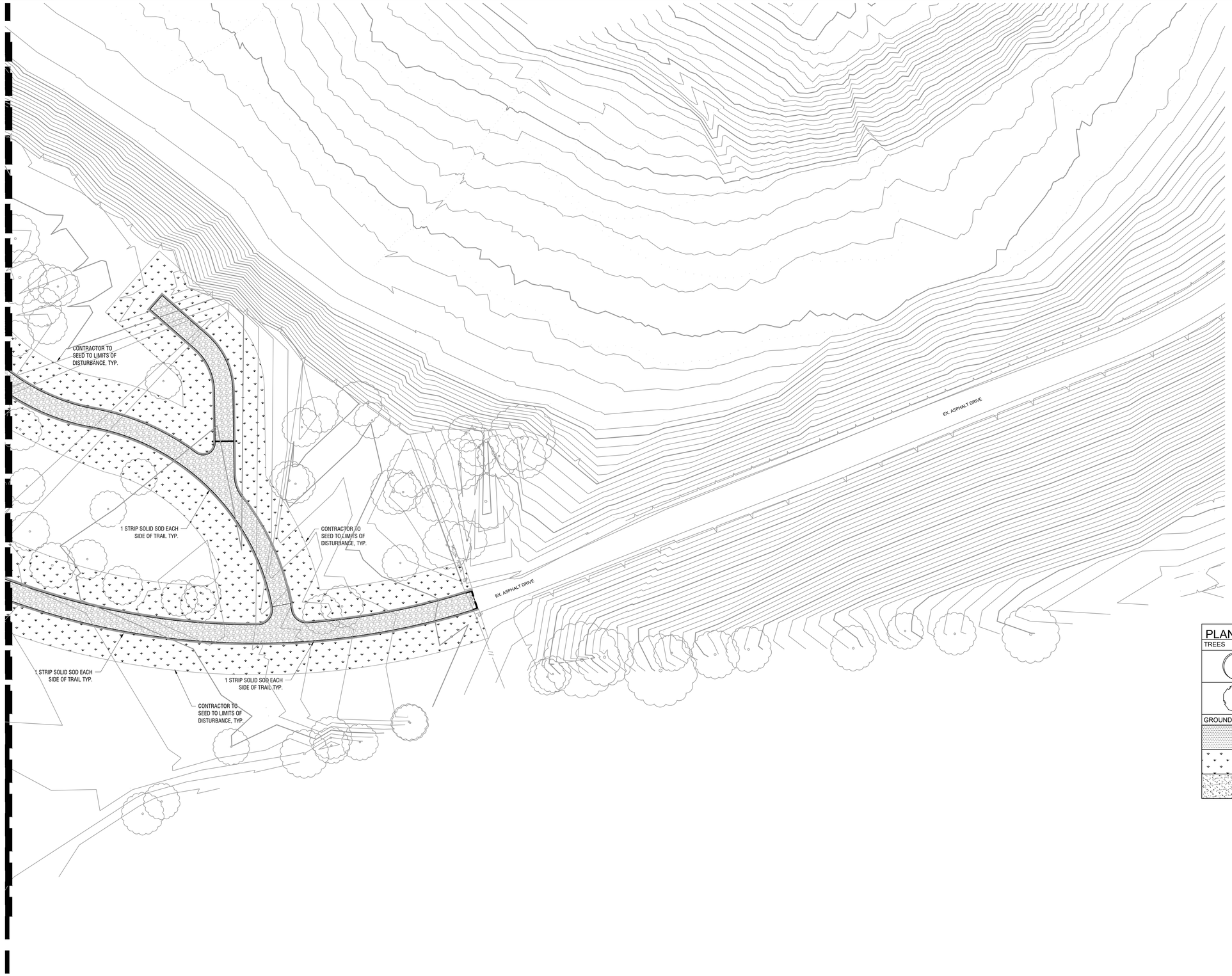
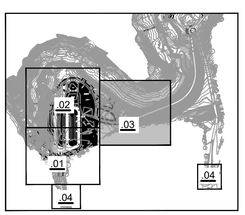


PLANT SCHEDULE

TREES	CODE	COMMON NAME
	Qs	SHUMARD OAK
	Qv	SOUTHERN LIVE OAK
GROUND COVERS	**CODE**	**COMMON NAME**
		DECOMPOSED GRANITE
	Seed	BERMUDA GRASS
	Sod	BERMUDA GRASS



KEY MAP NTS

PLANTING PLAN

Scale: 1:30

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

No.	DATE	BY

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DESIGNED BY	ECL
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CHECKED BY	KNM

PLANTING PLAN
3 OF 4

SAM COLLINS PARK PHASE 1A

PREPARED FOR

SABINE RIVER AUTHORITY

BURKEVILLE TEXAS

SHEET NUMBER

L2.03

Plotted By:Luong, Emily Sheet Set:Kha Layout:L2.04 November 01, 2022 04:18:47pm K:\HOU_LAL\068925100_SRA Sam Collins Park\CAD\Sheets\L1.00 - PLANTING PLAN .dwg
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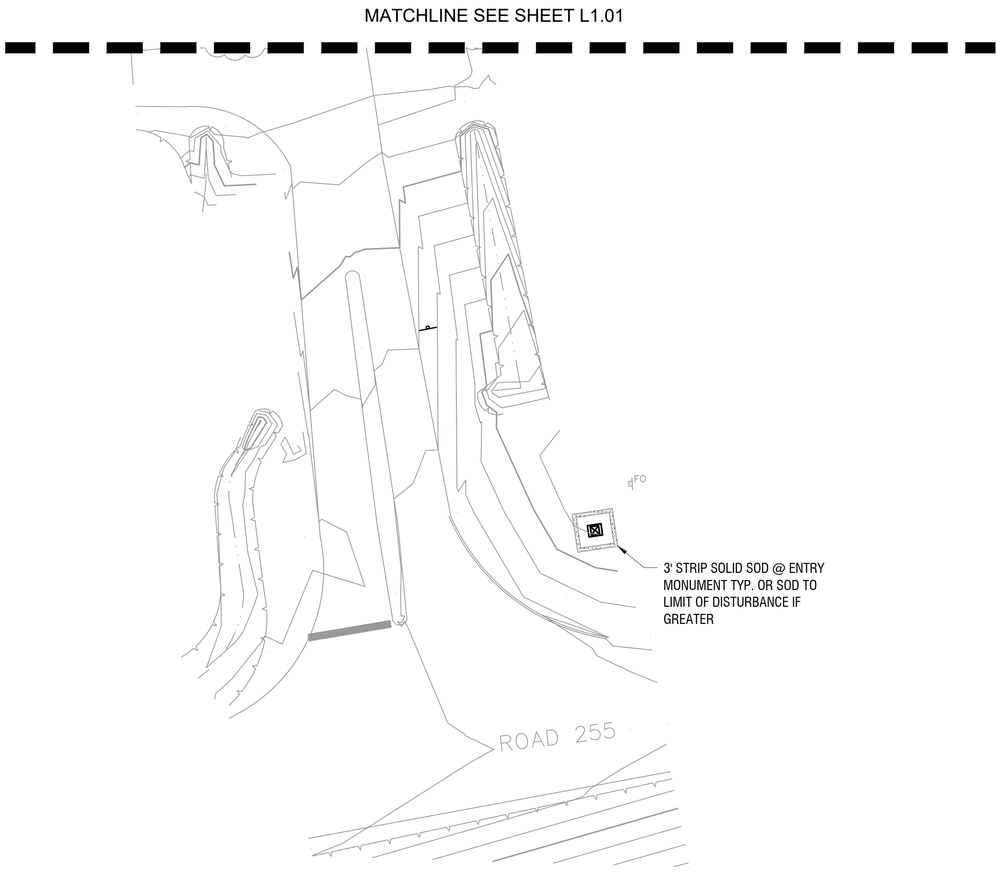

PLANTING PLAN
Scale: 1:20

B NORTH

GRAPHIC SCALE IN FEET
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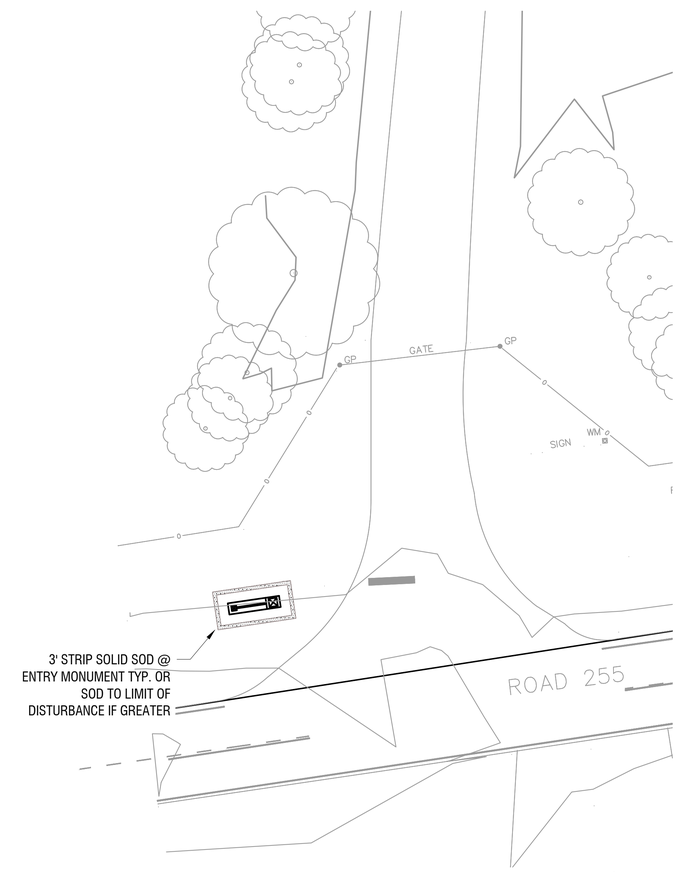


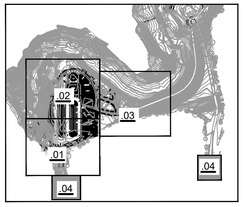
PLANTING PLAN
Scale: 1:20

A NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

PLANT SCHEDULE

TREES	CODE	COMMON NAME
	Qs	SHUMARD OAK
	Qv	SOUTHERN LIVE OAK
GROUND COVERS	**CODE**	**COMMON NAME**
		DECOMPOSED GRANITE
	Seed	BERMUDA GRASS
	Sod	BERMUDA GRASS



KEY MAP NTS

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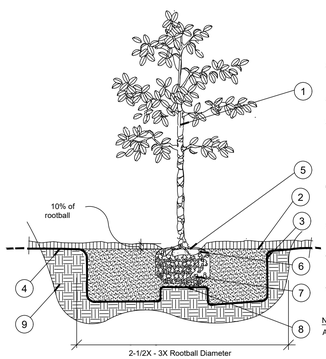
DRAWN BY	ECL
CHECKED BY	KNM

PLANTING PLAN
4 OF 4

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
L2.04

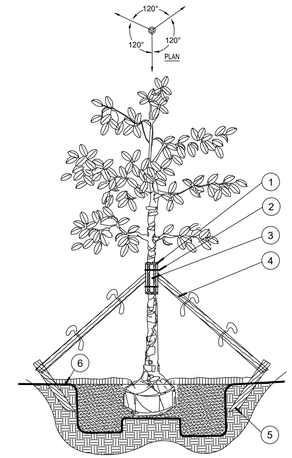


1. TRUNK
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW/ WIDE PLANT HOLE; TOP SHALL BE 2.5X-3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE (SEE GRADING PLAN).
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.
9. BACKFILL MATERIAL PER SPECIFICATIONS.

NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

A Tree Planting
SECTION — N.T.S.



1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X 18"L WOOD BATTENS
4. THREE (3) 2" X 8' LODGE POLES. DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
5. 2" x 4" x 3' (MIN), P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.
6. FINISHED GRADE (SEE GRADING PLAN)

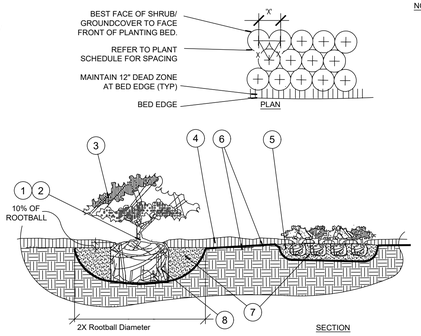
NOTES:
A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS:
*BROOKS TREE BRACE SYSTEM
*ARBOR TIE TREE BRACING

D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.

* REFER TO DETAILS A AND D FOR PLANTING

B Large Tree Staking - 100 Gal + or B&B 4" +
SECTION — N.T.S.

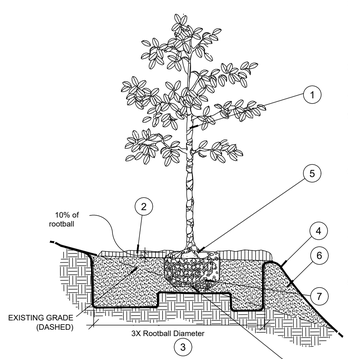


NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE 'WATER RINGS'. ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. 12" DEPTH PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

C Shrub / Groundcover Planting
PLAN / SECTION — N.T.S.

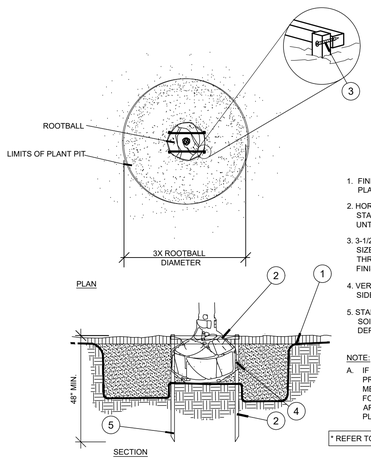


1. TREES, PALMS, AND LARGE SHRUBS (15 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER
2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW/ WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE (SEE GRADING PLAN).
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE. SLOPE SHALL NOT EXCEED 3:1 SLOPE.
7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

D Planting on a Slope
PLAN / SECTION — N.T.S.

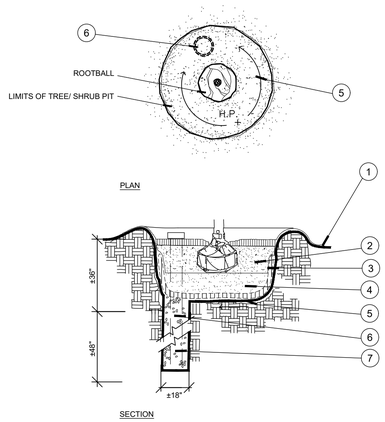


1. FINISHED GRADE (SEE GRADING PLAN).
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

NOTE:
A. IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* REFER TO DETAILS B AND D FOR PLANTING

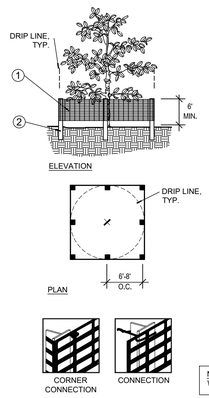
E Staking - up to 65 gal. or B&B to 3-1/2" Cal.
SECTION — N.T.S.



1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER
4. SOIL MIX COMBINED WITH 30% (MIN.) EXPANDED SHALE.
5. SLOPE BOTTOM TO DRAIN
6. ±18"* AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER A DEPTH OF 7' TO ASSURE PROPER PERCOLATION. INSTALL 4" PVC PIPE WITH VENTED CAP.
7. BACKFILL WITH 1/2" - 3/4" GRAVEL.

NOTES:
A. FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.
B. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F Poor Drainage Condition
PLAN / SECTION — N.T.S.

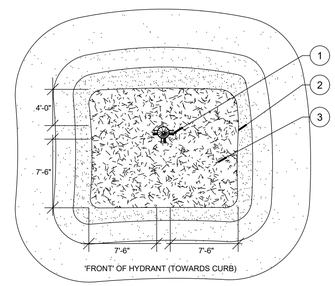


1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

NOTES:
A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).
D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

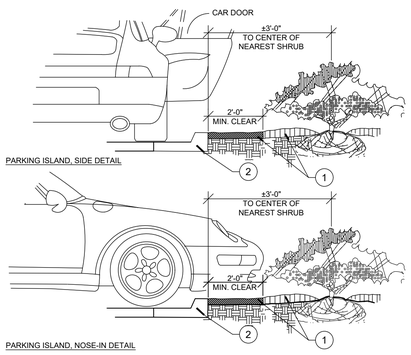
NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

G Tree/Shrub Protector
SECTION — N.T.S.



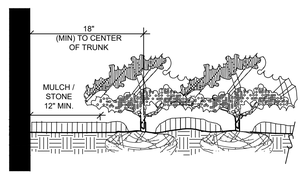
1. FIRE HYDRANT
2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN LIMITS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. PROVIDE A MULCH, 3" DEPTH MIN., SURROUNDING AREA INDICATED.

H Fire Hydrant Clear Zone
PLAN — N.T.S.



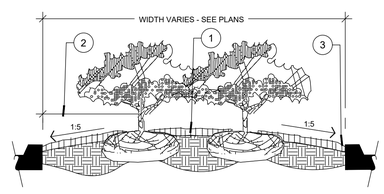
1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP.
2. NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
3. CURB OR PARKING LOT EDGE, BY OTHERS
4. CONTRACTOR TO PROVIDE ALTERNATE BID TO PROVIDE DECOMPOSED GRANITE BED IN LIEU OF MULCH FOR REVIEW OF OWNER.

I Parking Space/Curb Planting
SECTION — N.T.S.



NOTES:
A. CLEAR ZONE: 18" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.
B. MULCH / STONE TO BE AS INDICATED ON THE PLANS. STONE TO BE PEA GRAVEL, 4" DEPTH WITH WEED BARRIER AND STEEL EDGING.

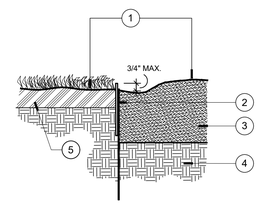
J Plantings Adjacent to Buildings/Walls
SECTION — N.T.S.



PLANTER ISLAND NOTES:
1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF. SEE PLANS. SEE DETAIL 'I' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
3. 1" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

- WHEN LIME STABILIZED SOIL IS ENCOUNTERED, EXCAVATE PER SPECIFICATIONS.
- PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

K Planted Parking Lot Islands / Medians
SECTION — N.T.S.



1. DIFFERENT PLANTING TREATMENTS.
2. METAL EDGING
3. BED SOIL. 12" MINIMUM DEPTH. REF: NOTES AND/OR SPECS FOR MIX. & DEPTH.
4. NATIVE SOIL
5. 4" TOPSOIL. REF: NOTES AND/OR SPECS FOR MIX. & DEPTH.

L Steel Edging
SECTION — N.T.S.

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REGISTERED LANDSCAPE ARCHITECT KRISTINA N. MALEK 2988 STATE OF TEXAS
11.01.2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	ECL
DRAWN BY	ECL
CHECKED BY	KNM

PLANTING DETAILS AND NOTES

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
L2.10

Plotted By:Luong, Emily , Sheet Set:Kha Layout:L2.10 November 01, 2022 04:18:49pm K:\HOU_LAL\068925100_SRA Sam Collins Park\CAD\Sheets\L1.00 - PLANTING PLAN .dwg
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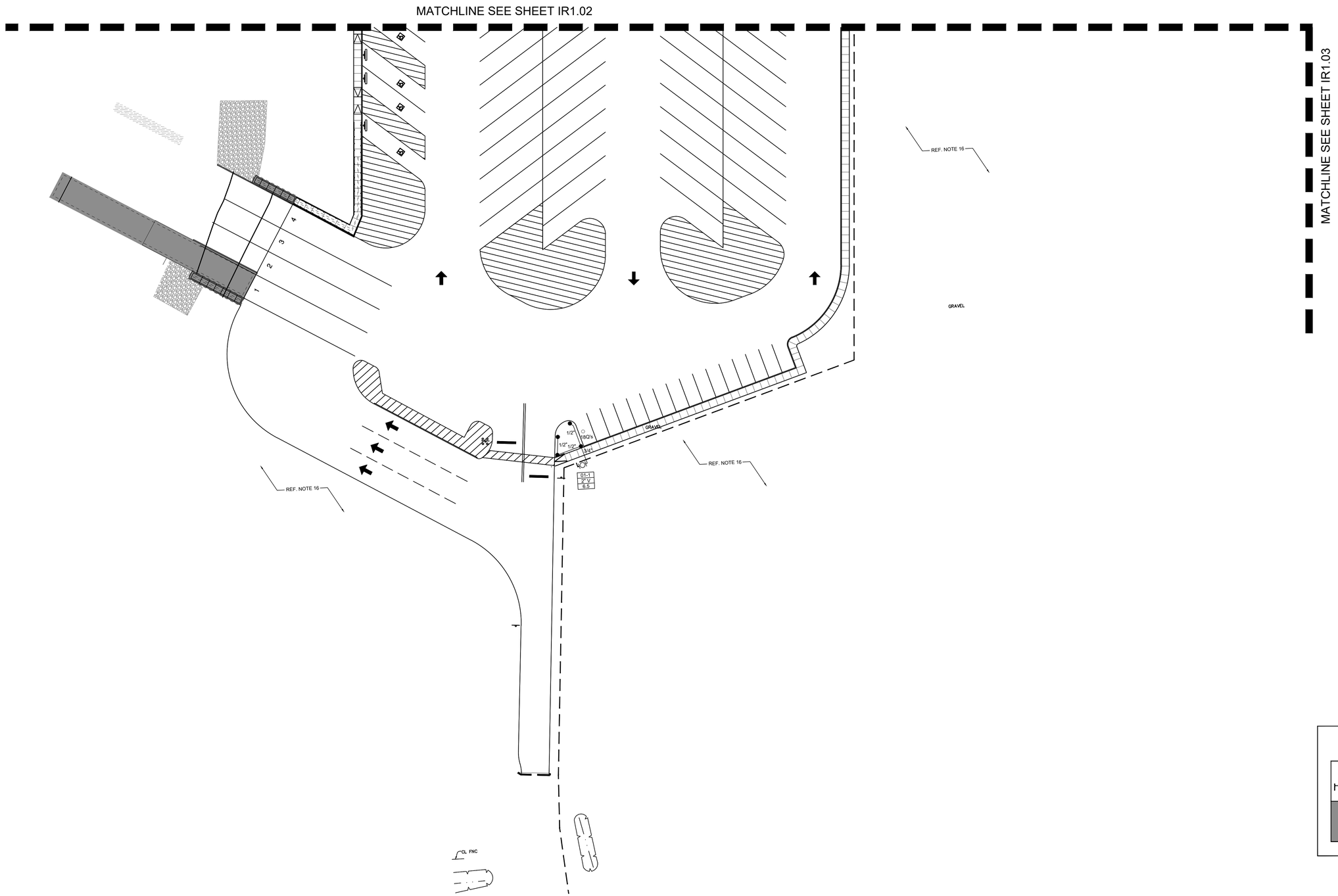
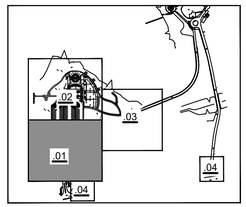
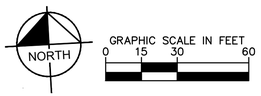


IRRIGATION PLAN

Scale: 1:30



KEY MAP NTS



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STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-01-2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	SAH
DRAWN BY	SAH
CHECKED BY	SAH

IRRIGATION PLAN
1 OF 4

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
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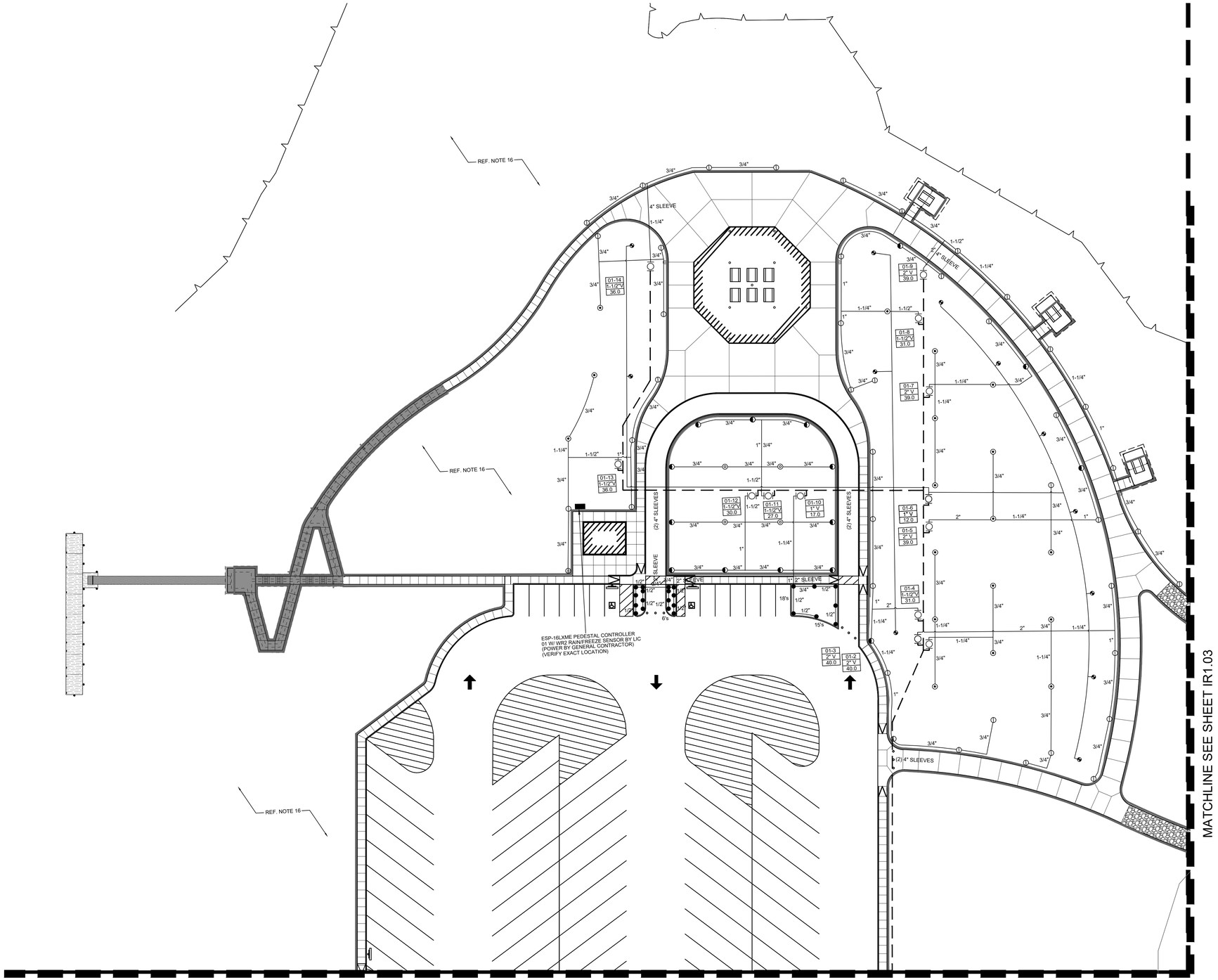

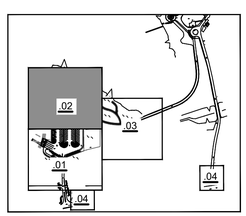

KEY MAP NTS

IRRIGATION PLAN
Scale: 1:30

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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IRRIGATION PLAN 2 OF 4

SAM COLLINS PARK PHASE 1A

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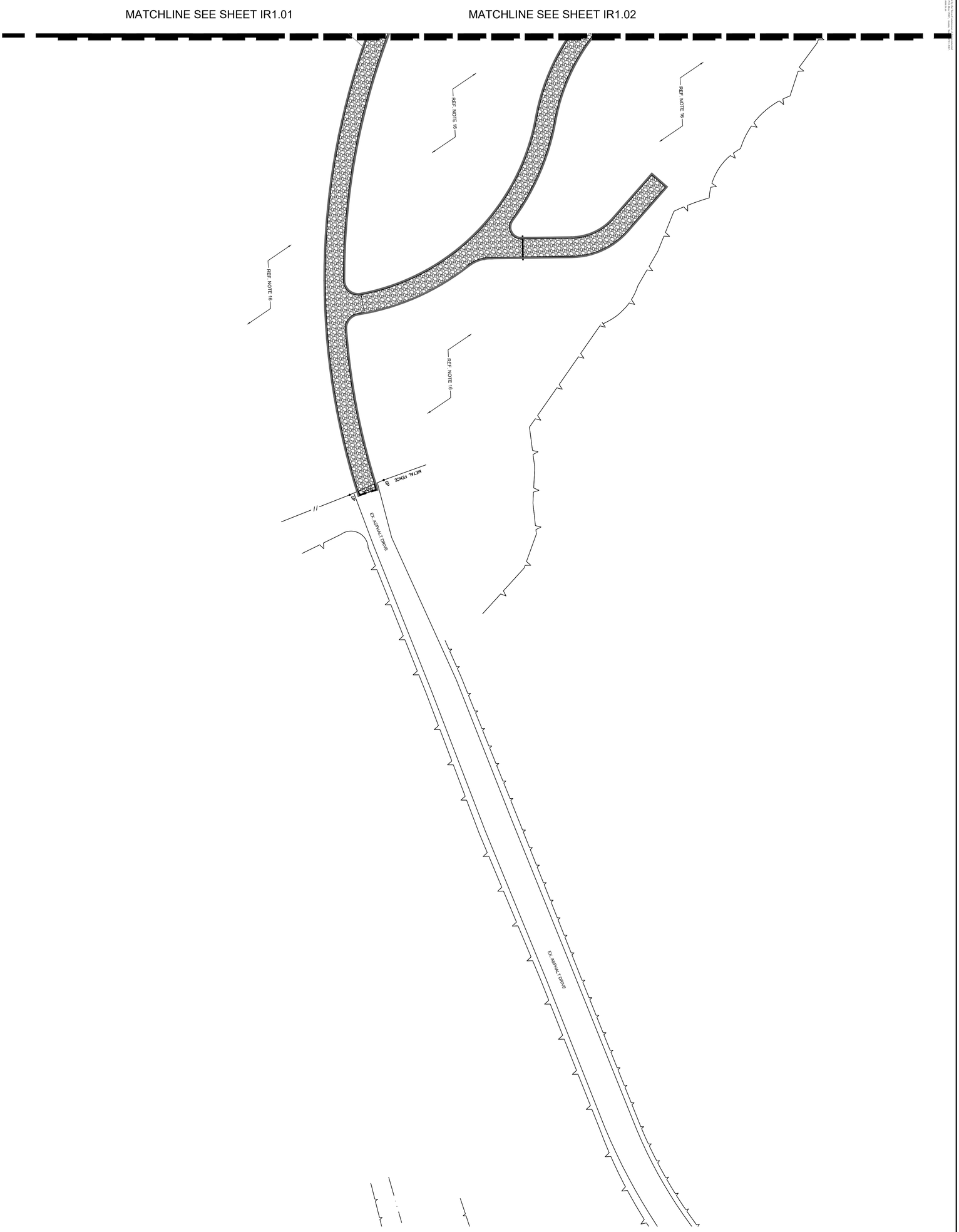

IRRIGATION PLAN

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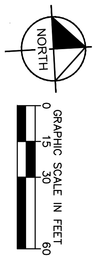

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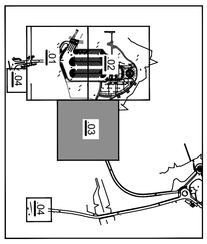

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PHASE 1A
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IRRIGATION PLAN
3 OF 4

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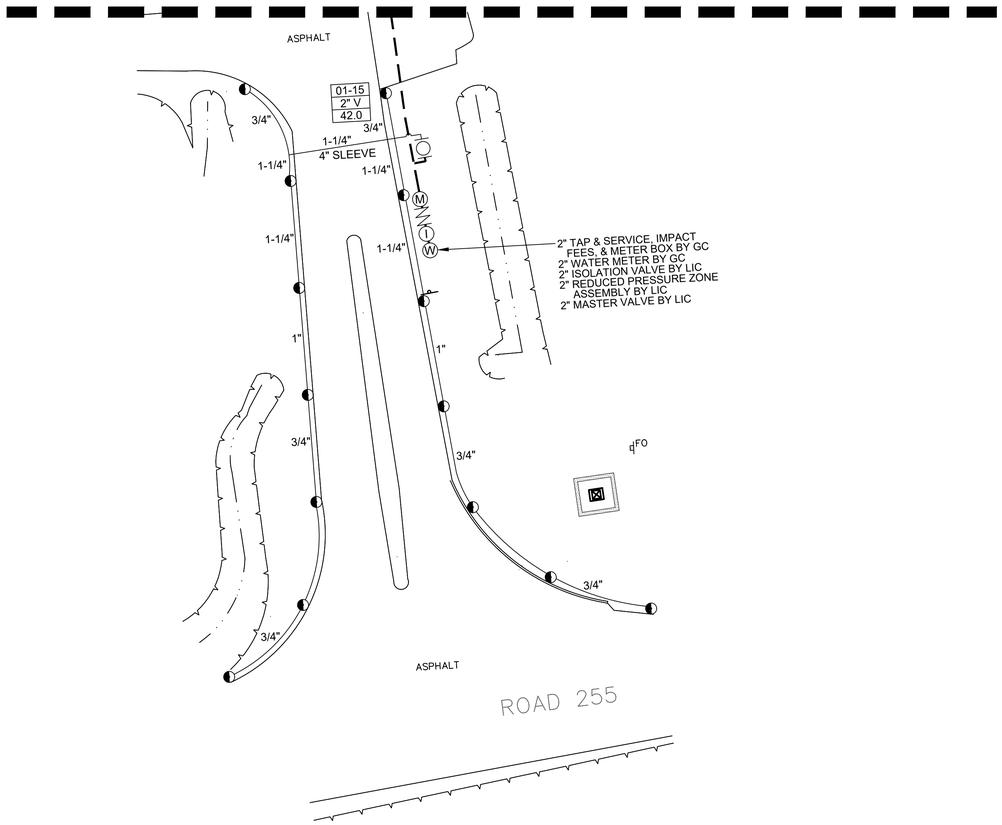

IRRIGATION PLAN
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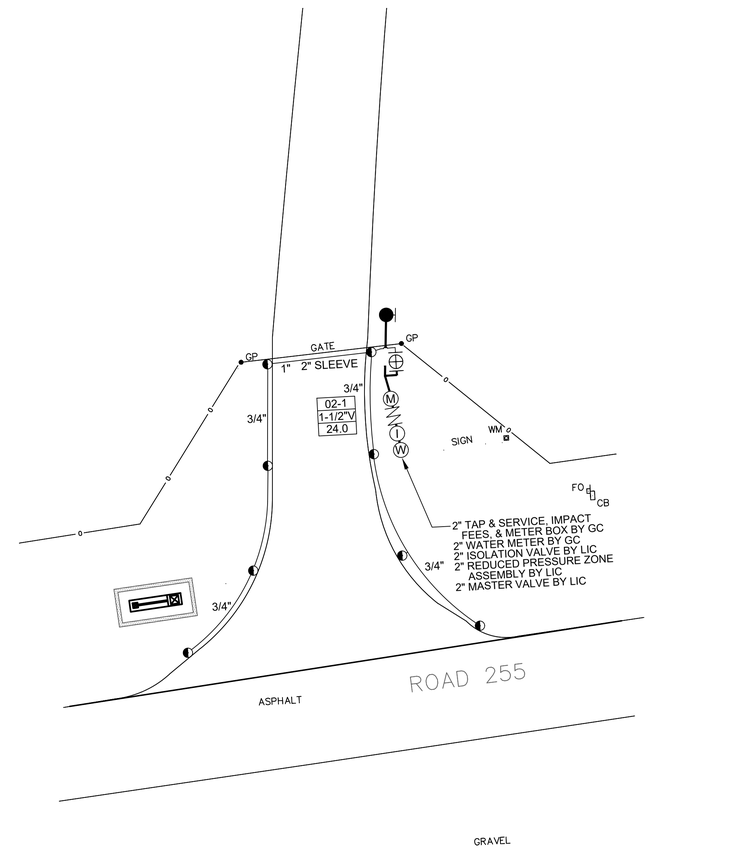

IRRIGATION PLAN
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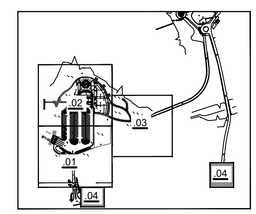

KEY MAP NTS

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IRRIGATION PLAN 4 OF 4

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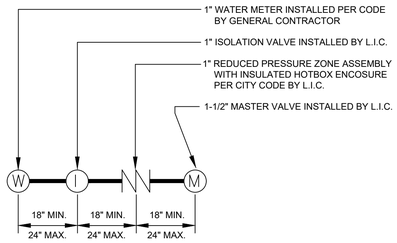

WATER SOURCE LAYOUT

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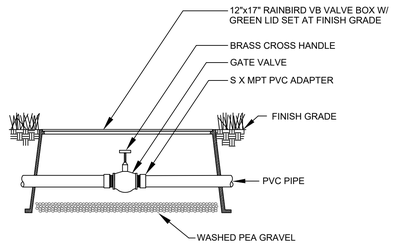

ISOLATION VALVE

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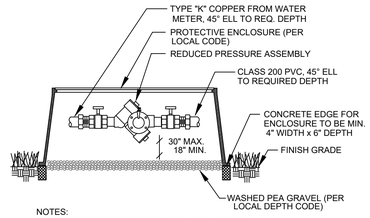
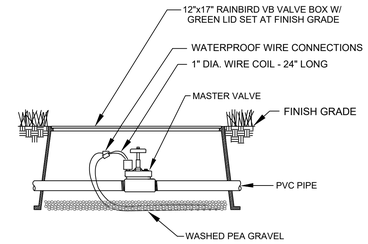


NOTES:
1. KEEP TEST COCKS CLEAR (PER LOCAL CODE).
2. ENCLOSURE TO BE INSULATED (PER LOCAL CODE).
3. CONCRETE BORDER TO BE 2500 PSI CONCRETE W/ #3 REBAR 12" ON-CENTER VERTICALLY AND ONE HORIZONTALLY

REDUCED PRESSURE ZONE ASSEMBLY

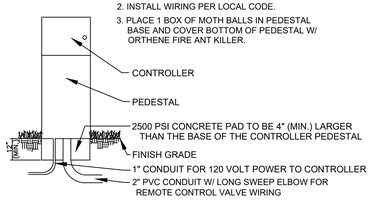
NOT TO SCALE SHEDC



MASTER VALVE

NOT TO SCALE SHEDC

NOTES:
1. GROUND CONTROLLER PER MANUFACTURER'S SPECIFICATIONS. PROVIDE SURGE SUPPRESSION PROTECTION AS REQUIRED BY MANUFACTURER.
2. INSTALL WIRING PER LOCAL CODE.
3. PLACE 1 BOX OF MOTH BALLS IN PEDESTAL BASE AND COVER BOTTOM OF PEDESTAL W/ ORTHENE FIRE ANT KILLER.



CONTROLLER WITH PEDESTAL

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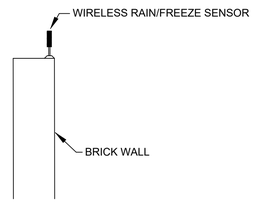

WALLMOUNT SENSOR

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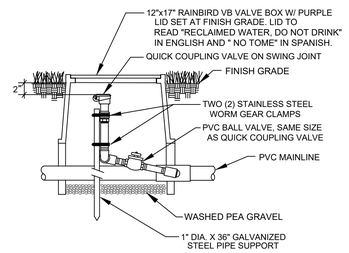

QUICK COUPLING VALVE W/ BALL VALVE

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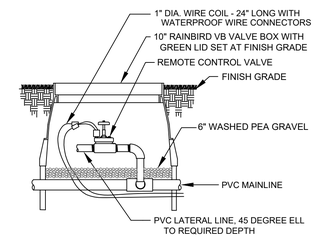

REMOTE CONTROL VALVE

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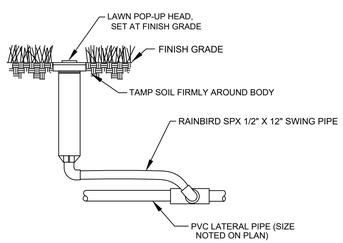

LAWN SPRAY HEAD

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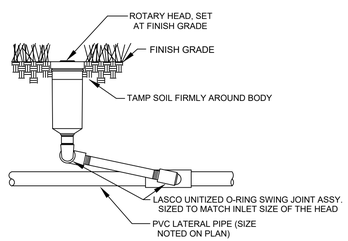

ROTARY HEAD

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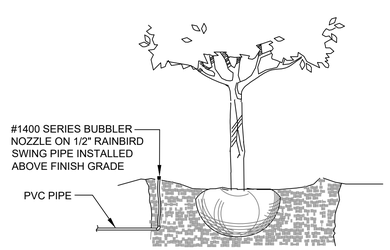

TREE BUBBLER

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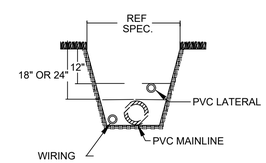

1. TAPE & BUNDLE WIRING AT 10'-0" INTERNALS

TRENCHING DETAIL

NOT TO SCALE SHEDC

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DRAWN BY SAH
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IRRIGATION DETAILS

SAM COLLINS PARK
PHASE 1A
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BURKEVILLE TEXAS

SHEET NUMBER
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IRRIGATION DESIGN & CONSULTING, LLC
4009 W. Parker Rd., #149-221, Plano, Texas 75093 Tel: 972-814-5141

NOTES:

1. ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS.
2. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
3. PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
4. LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.
5. SIZE PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE CHART.
6. CONNECT LAWN SPRAY HEADS AND TREE BUBBLERS TO LATERAL PIPING WITH RAINBIRD 1/2" SPX SWING PIPE. CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO #T722 SERIES"UNITIZED", O-RING SWING JOINTS.
7. INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH RAINBIRD VB VALVE BOX. CONNECT QUICK COUPLERS TO MAINLINE PIPE WITH LASCO #T722-212 "UNITIZED", O-RING SWING JOINT. SUPPLY OWNER WITH ONE (1) COUPLER KEY WITH SWIVEL HOSE BIBB EACH. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH. INSTALL EVERY 200'-0" ON CENTER ALONG ENTIRE LENGTH OF MAINLINE.
8. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR.
9. INSTALL REMOTE CONTROL VALVES AND WIRE SPLICES IN TEN (10") INCH RAINBIRD VB VALVE BOXES.
10. INSTALL SLEEVES UNDER ALL HARDSCAPE SURFACES SUCH AS ROADS, DRIVES, WALKS, ETC. WHETHER SHOWN OR NOT. SLEEVES SHALL BE CLASS 200 PVC, SIZED AS NOTED ON PLANS AND INSTALLED BY IRRIGATION CONTRACTOR.
11. ADJUST NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90 DEGREE RADIUS SPRAY. NO OVERSPRAY ALLOWED ON ANY HARDSCAPE SURFACES.
12. DESIGN PRESSURE IS 62.0 PSI. STATIC PRESSURE IS 70 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED.
13. MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
14. DO NOT INSTALL ANY MAINLINES, VALVES, OR CONTROL WIRES WITHIN THE R.O.W. UNLESS CITY APPROVED.
15. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. CONTRACTOR MUST STAKE DITCHES AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OR DIGGING.
16. PROVIDE TEMPORARY IRRIGATION TO ALL DISTURBED AREAS THAT DO NOT HAVE PERMANENT IRRIGATION. PROVIDE ALL MATERIAL AND LABOR NECESSARY TO INSTALL AND OPERATE THE TEMPORARY SYSTEM. TEMPORARY SYSTEM TO BE LEFT IN PLACE UNTIL PLANT MATERIAL IS ESTABLISHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. SHOULD IT BECOME NECESSARY TO REMOVE AND REPLACE THE TEMPORARY SYSTEM FOR MOWING AND MAINTENANCE OPERATIONS, THE LANDSCAPE IRRIGATION CONTRACTOR SHALL CONSIDER THIS PART OF HIS SCOPE OF WORK. EXACT METHOD OF PROVIDING AND OPERATING THE TEMPORARY SYSTEM WILL BE THE LANDSCAPE IRRIGATION CONTRACTOR'S RESPONSIBILITY. OPERATION OF THE TEMPORARY SYSTEM MUST BE COORDINATED WITH THE PERMANENT SYSTEM TO INSURE PROPER HYDRAULIC OPERATION OF BOTH SYSTEMS. CONTRACTOR IS RESPONSIBLE TO REFERENCE THE LANDSCAPE PLANS FOR THE SCOPE OF THIS WORK.
17. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION. A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED PER CITY OF BURKEVILLE REQUIREMENTS.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 W/ MPR PLASTIC NOZZLE ON ON RAINBIRD 1/2" SPX SWING PIPE
⊕	TREE BUBBLER HEAD ORNAMENTAL	RAINBIRD (30 PSI)	#1402 PLASTIC BUBBLER NOZZLE ON ON RAINBIRD 1/2" SPX SWING PIPE
◉	TREE BUBBLER HEAD SHADE	RAINBIRD (30 PSI)	#1404 PLASTIC BUBBLER NOZZLE ON ON RAINBIRD 1/2" SPX SWING PIPE
◑	ROTARY HEAD PART-CIRCLE	RAINBIRD (40 PSI)	5004 W/ #1.5 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
◎	ROTARY HEAD FULL-CIRCLE	RAINBIRD (40 PSI)	5004 W/ #3.0 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
◐	ROTARY HEAD PART-CIRCLE	RAINBIRD (40 PSI)	5004 W/ #4.0 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
⊙	ROTARY HEAD FULL-CIRCLE	RAINBIRD (40 PSI)	5004 W/ #8.0 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
▲	QUICK COUPLING VALVE	RAINBIRD	#33-DNP WITH LASCO BALL VALVE, PURPLE LID READS "RECLAIMED WATER, DO NOT DRINK" IN ENGLISH AND "NO TOME" IN SPANISH.
|○|	REMOTE CONTROL VALVE	RAINBIRD	PEB W/ PRS-D PRESSURE REGULATOR, REFER TO PLANS FOR SIZE
●	BALL VALVE	LASCO	COMPACT, LINE SIZE
▬	CONTROLLER	RAINBIRD	ESP-LXME PEDESTAL MOUNT SERIES WITH WR2 RAIN AND FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	2-1/2" CLASS 200 PVC
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
Ⓦ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	T-29, REFER TO PLAN FOR SIZE
⋀⋀	RPZ BACKFLOW PREVENTER	FEBCO	860, REFER TO PLAN FOR SIZE
Ⓜ	MASTER VALVE	RAINBIRD	PEB, REFER TO PLAN FOR SIZE
▭	STATION NUMBER		
▭	VALVE SIZE		
▭	GPM (APPROX.)		

No.	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-01-2022

KHA PROJECT	068925100
DATE	11.01.2022
SCALE	AS SHOWN
DESIGNED BY	SAH
DRAWN BY	SAH
CHECKED BY	SAH

IRRIGATION SPECIFICATIONS

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
IR1.20

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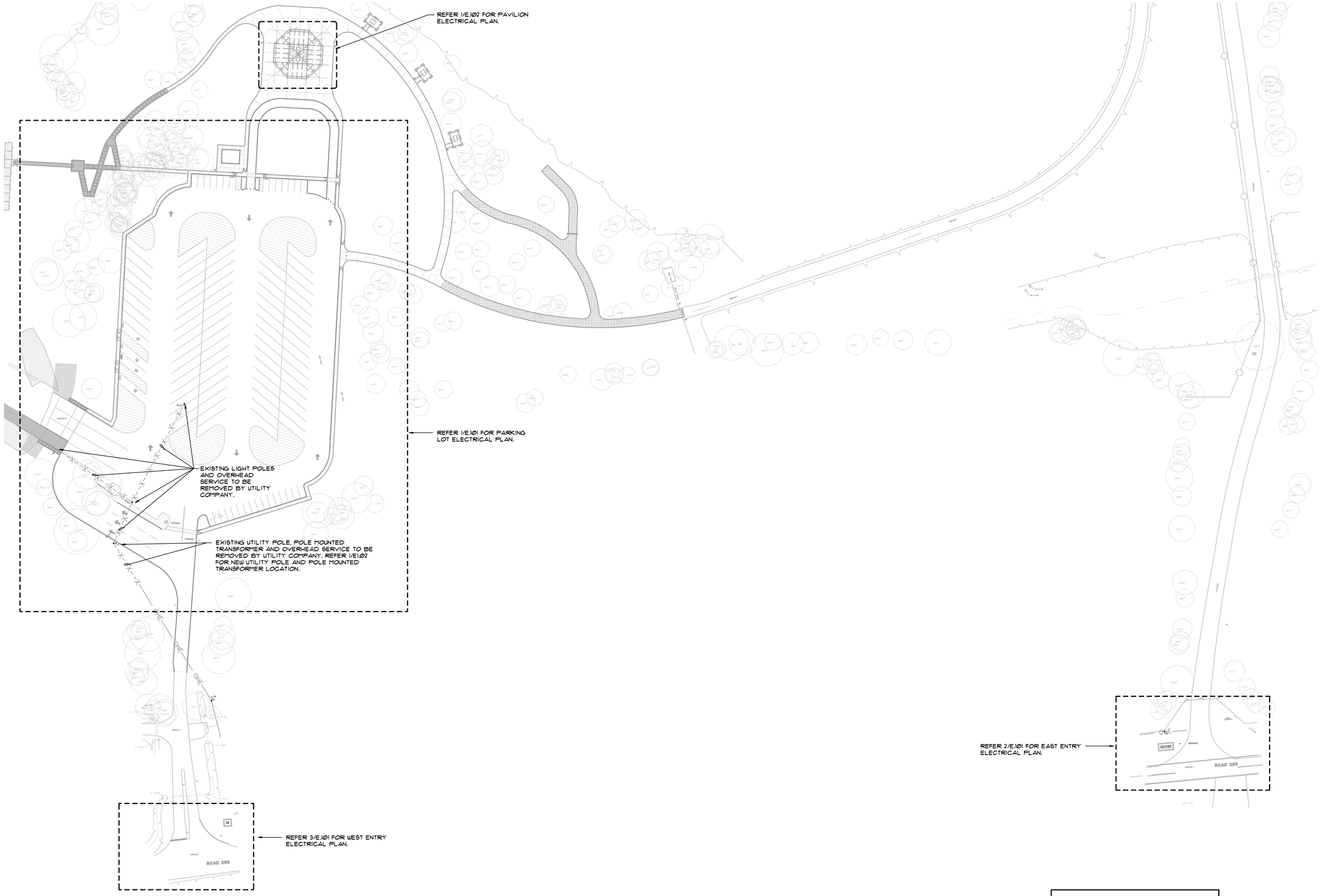


N

1 OVERALL SITE PLAN - ELECTRICAL

SCALE: 1"=60'-0"

UTILITY CONTACTS

Deep East Texas Electric Co-Op

Mr. Ty Tamplin
(936) 229-3949

EA ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-597-0900
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

JIM D. DALLAS
85922
LICENSED
PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	Nov. 01, 2022
SCALE	AS SHOWN
DESIGNED BY	JW
DRAWN BY	CAD
CHECKED BY	JW

OVERALL SITE PLAN - ELECTRICAL

SAM COLLINS PARK PHASE 1A

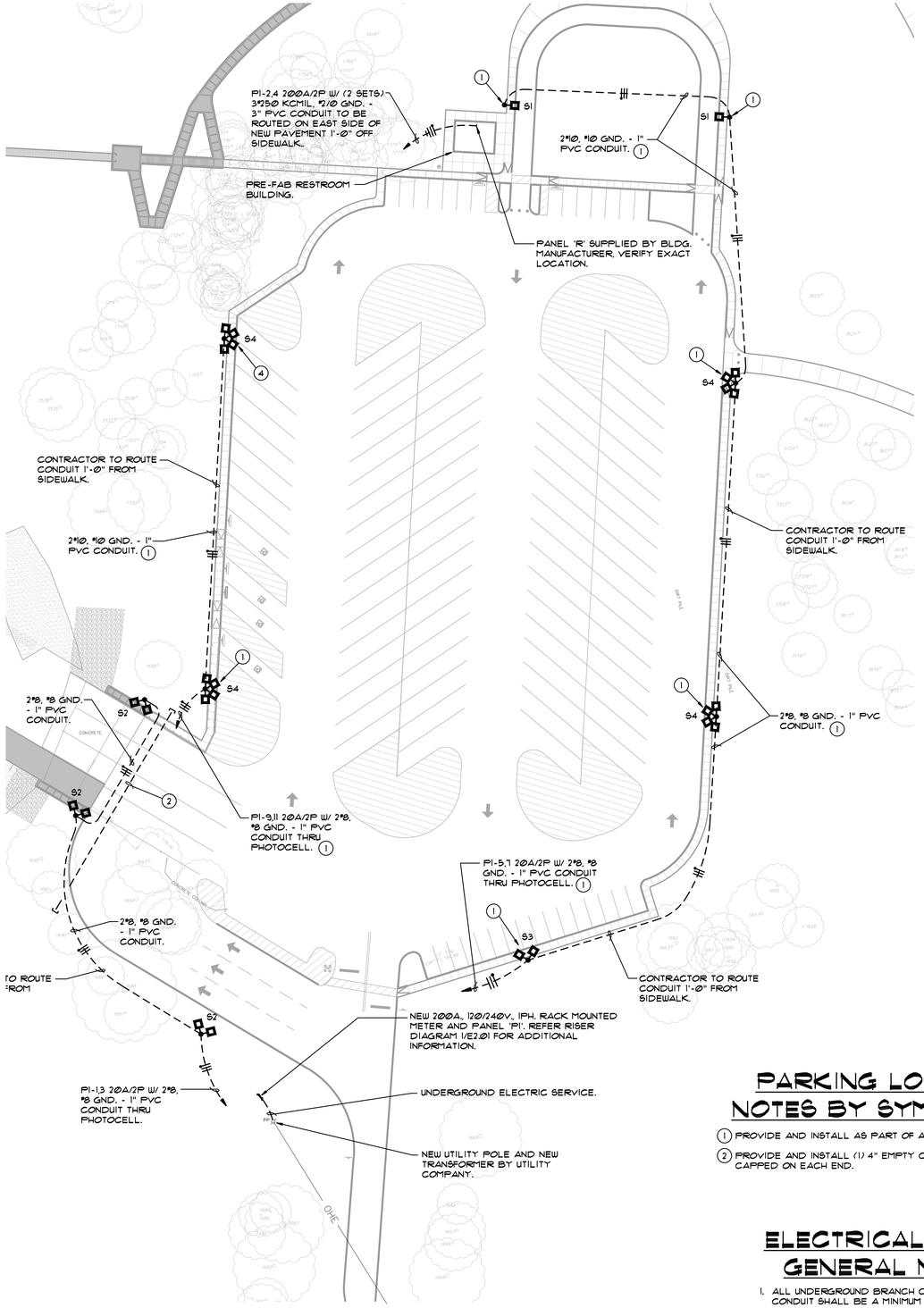
PREPARED FOR

SABINE RIVER AUTHORITY

BURKEVILLE TEXAS

SHEET NUMBER

E1.00



N

1 PARKING LOT PLAN - ELECTRICAL

SCALE: 1" = 40'-0"

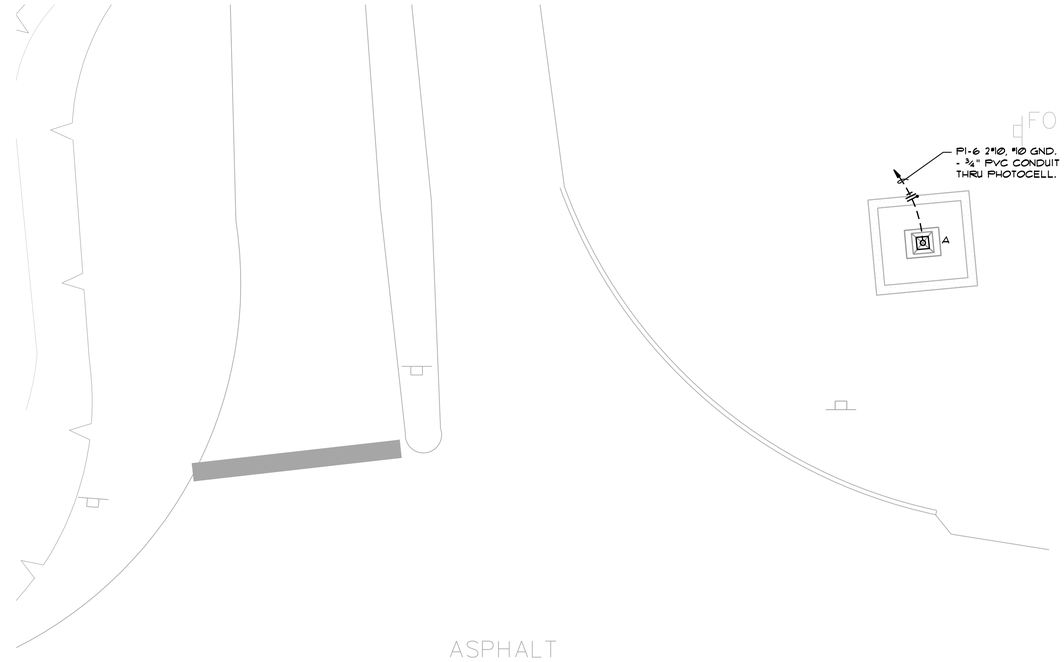
PARKING LOT PLAN NOTES BY SYMBOL '◯'

(1) PROVIDE AND INSTALL AS PART OF ALTERNATE #1.

(2) PROVIDE AND INSTALL (1) 4" EMPTY CONDUIT SLEEVE CAPPED ON EACH END.

ELECTRICAL PLANS GENERAL NOTES

1. ALL UNDERGROUND BRANCH CIRCUIT WIRING IN CONDUIT SHALL BE A MINIMUM OF 24" BELOW FINAL GRADE.

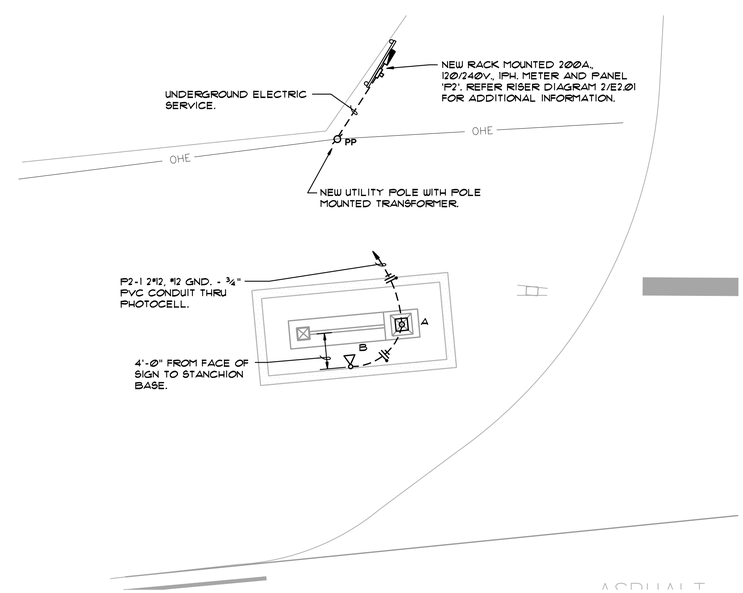


N

2 WEST ENTRY PLAN - ELECTRICAL

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

PROVIDE AND INSTALL ALL WORK AS PART OF ALTERNATE #1



N

3 EAST ENTRY PLAN - ELECTRICAL

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

PROVIDE AND INSTALL ALL WORK AS PART OF ALTERNATE #1

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No.	REVISIONS	DATE	BY

Kimley»Horn

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

JIM D. DALLAS
85922
LICENSED
PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	Nov. 01, 2022
SCALE	AS SHOWN
DESIGNED BY	JW
DRAWN BY	CAD
CHECKED BY	JW

PARTIAL SITE PLANS - ELECTRICAL

SAM COLLINS PARK PHASE 1A

PREPARED FOR

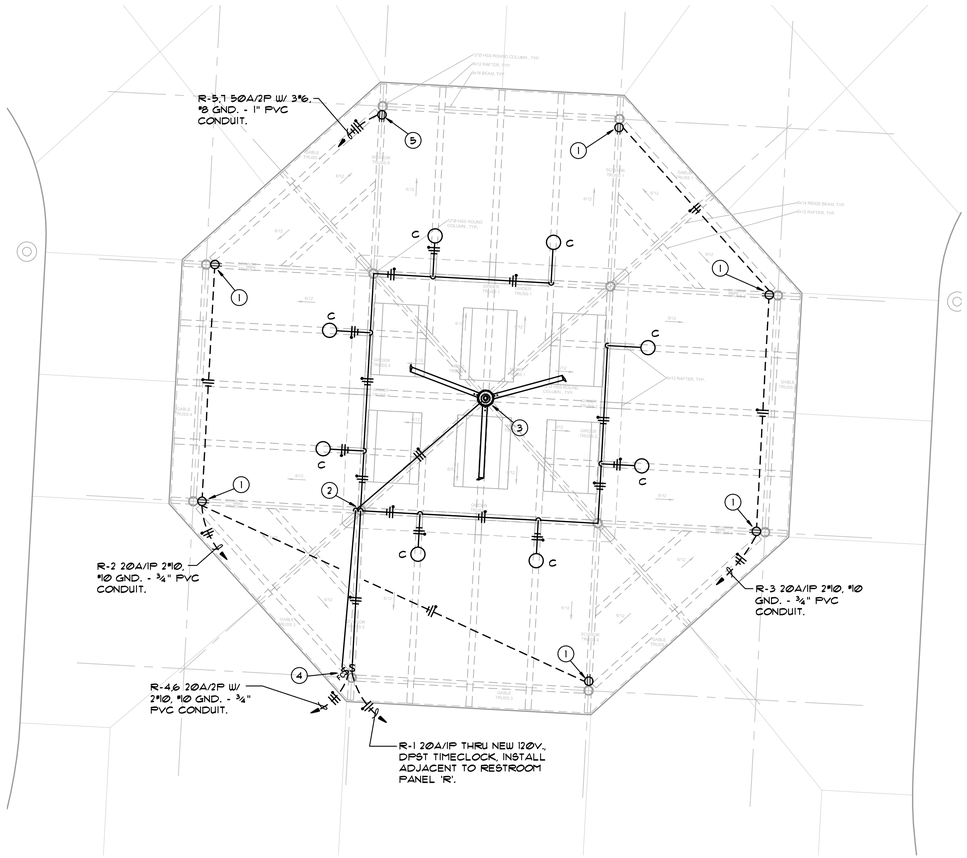
SABINE RIVER AUTHORITY TEXAS

BURKEVILLE

EA ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

SHEET NUMBER

E1.01



N

1 PAVILION PLAN - ELECTRICAL

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

PAVILION PLAN
NOTES BY SYMBOL '○'

1. PROVIDE AND INSTALL W.R. LISTED GFCI, 20A, 125V, DUPLEX RECEPTACLE WITH METAL 'IN USE' COVER EQUAL TO T4B *CKMUV SERIES.
2. ROUTE DOWN THRU COLUMN TO UNDERGROUND.
3. PROVIDE AND INSTALL MACROAIR AIRVOLUTION HIGH VOLUME FAN *M3D0-0035MA-60-30010-00-33-21010-00-60-50142-00-30-90308-00-51-F0300-02.
4. DIGITAL FAN CONTROL SUPPLIED BY FAN MANUFACTURER.
5. PROVIDE AND INSTALL 50A 120/240V, 3 POLE, 4 WIRE GROUNDING RECEPTACLE IN NEMA 3R ENCLOSURE.

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11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-597-1655
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

JIM D. DALLAS
85922
LICENSED
PROFESSIONAL ENGINEER
11/01/2022

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DESIGNED BY	JW
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CHECKED BY	JW

PAVILION PLAN - ELECTRICAL

SAM COLLINS PARK
PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

EA ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

SHEET NUMBER
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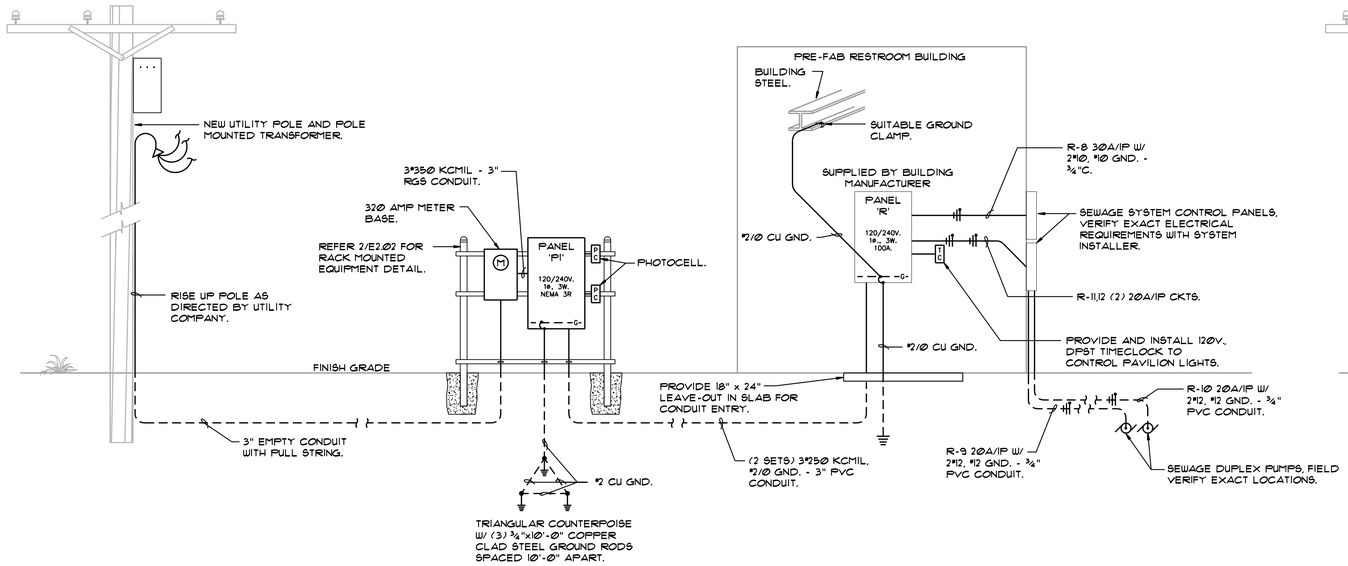
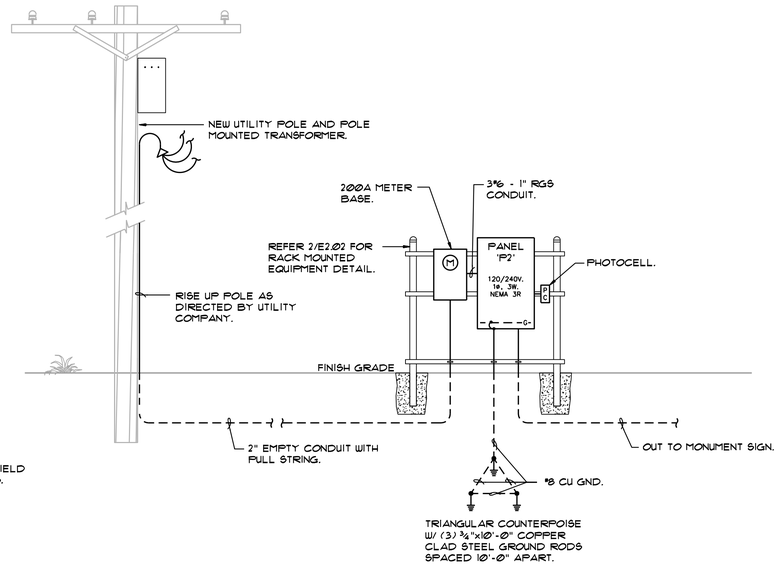


1 PANEL 'P1' ELECTRICAL RISER DIAGRAM

SCALE: NONE



2 PANEL 'P2' ELECTRICAL RISER DIAGRAM

SCALE: NONE

PROVIDE AND INSTALL AS PART OF ALTERNATE #1

PANEL 'P1'

NOTES	DESCRIPTION	P - AMP	LOAD LIGHTING	LOAD POWER	PH / CKT #	LOAD POWER	LOAD LIGHTING	P - AMP	DESCRIPTION	NOTES
	Boat Ramp Lighting	2	651		1 A 2	12000		2	Pre-Fab Restroom Bldg.	
	↓	20	651		3 B 4	12000		20	Panel	
1	Parking / Site Lighting	2	1437		5 A 6		34	1 - 20	West Entry Sign Light	1
	↓	20	1437		7 B 8	-----	-----	1 - -	Space Only	
1	Parking / Site Lighting	2	976		9 A 10	-----	-----	1 - -	Space Only	
	↓	20	976		11 B 12	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	13 A 14	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	15 B 16	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	17 A 18	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	19 B 20	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	21 A 22	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	23 B 24	-----	-----	1 - -	Space Only	

LOAD SUMMARY	CONN. KW	N.E.C. DIV.	DIV. KW
LIGHTING	6.2	X 1.25	7.7
POWER	24.0	X 1.0	24.0
OTHER	0.0	X 1.0	0.0
TOTALS	30.2		31.7

POLES	24
SIZE	400 AMP
MAINS	300A/3P M.C.B.
VOLTS	120/240V., 1ø, 3W
A.I.C.	10K
MOUNTING	Surface
ENCLOSURE	NEMA 3R
PANEL AMPS	132
LOADS PER PHASE:	
PHASE A (KW)	15.1
PHASE B (KW)	15.1

PROJECT	Sam Collins Park Burkeville, Texas
PANEL LOCATION:	Meter Pedestal #1
DATE:	November 2022

NOTES:
1. Provide and install as part of Alternate #1.

PANEL 'P2'

PROVIDE AND INSTALL AS PART OF ALTERNATE #1

NOTES	DESCRIPTION	P - AMP	LOAD LIGHTING	LOAD POWER	PH / CKT #	LOAD POWER	LOAD LIGHTING	P - AMP	DESCRIPTION	NOTES
	East Entry Sign Lighting	1 - 20	54		1 A 2	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	3 B 4	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	5 A 6	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	7 B 8	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	9 A 10	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	11 B 12	-----	-----	1 - -	Space Only	

LOAD SUMMARY	CONN. KW	N.E.C. DIV.	DIV. KW
LIGHTING	0.054	X 1.25	0.068
POWER	0.0	X 1.0	0.0
OTHER	0.0	X 1.0	0.0
TOTALS	0.054		0.068

POLES	12
SIZE	100 AMP
MAINS	60A/2P M.C.B.
VOLTS	120/240V., 1ø, 3W
A.I.C.	10K
MOUNTING	Surface
ENCLOSURE	NEMA 3R
PANEL AMPS	028
LOADS PER PHASE:	
PHASE A (KW)	0.068
PHASE B (KW)	0.0

PROJECT	Sam Collins Park Burkeville, Texas
PANEL LOCATION:	Meter Pedestal #2
DATE:	November 2022

NOTES:

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/MODEL #	VOLTAGE	WATTAGE	LAMPS	REMARKS
A	SURFACE MOUNTED LED LANTERN	TWO HILLS STUDIO *CPL24	120	34	LEDS FURNISHED	
B	STANCHION MOUNTED LED FLOODLIGHT	KIM *KFL1-18L-20-4KB-HF-UNV-K-BLT-SF-SM18-BLT	120	20	LEDS FURNISHED	REFER 3/E2.021 FOR STANCHION INSTALLATION DETAIL
C	PENDANT MOUNTED LED CANOPY LUMINAIRE	LITHONIA *VCPGX LED V8 P5 40K 80CRI T5E MVOLT PM UPL2 DD BXD BDS	120	81	LEDS FURNISHED	
S1	POLE MOUNTED LED AREA LUMINAIRE ON 25'-0" SQUARE STEEL POLE	LITHONIA *DSX2 LED P3 30K T4M MVOLT SPA NLTAIR2 PIRHN DF DDBXD	240	217	LEDS FURNISHED	REFER 1/E2.02 FOR POLE BASE DETAIL
S2	(2) POLE MOUNTED LED AREA LUMINAIRE ON 25'-0" SQUARE STEEL POLE @ 90°	LITHONIA *DSX2 LED P3 30K T4M MVOLT SPA NLTAIR2 PIRHN DF DDBXD	240	434	LEDS FURNISHED	REFER 1/E2.02 FOR POLE BASE DETAIL
S3	(2) POLE MOUNTED LED AREA LUMINAIRE ON 50'-0" ROUND TAPERED STEEL POLE @ 90°	LITHONIA *RSXF2 LED P6 30K SP MVOLT 15 NLTAIR2 PIRHN DF DDBXD POLE: AMERICAN LITE POLE *RTS-50-13-7-AB-DB-T20-BCS-BH418	240	488	LEDS FURNISHED	WITH UBV TOP MOUNTED VISOR. REFER 1/E2.02 FOR POLE BASE DETAIL
S4	SAME AS TYPE 'S3' EXCEPT WITH (4) FIXTURES	LITHONIA *RSXF2 LED P6 30K SP MVOLT 15 NLTAIR2 PIRHN DF DDBXD POLE: AMERICAN LITE POLE *RTS-50-13-7-AB-DB-T20-BCS-BH418	240	976	LEDS FURNISHED	WITH UBV TOP MOUNTED VISOR. REFER 1/E2.02 FOR POLE BASE DETAIL

EA ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

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Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 600, HOUSTON, TX 77079
PHONE: 281-499-6200
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

JIM D. DALLAS 85922 LICENSED PROFESSIONAL ENGINEER
11/01/2022

KHA PROJECT	068925100
DATE	Nov. 01, 2022
SCALE	AS SHOWN
DESIGNED BY	JW
DRAWN BY	CAD
CHECKED BY	JW

ELECTRICAL RISER DIAGRAMS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
E2.01

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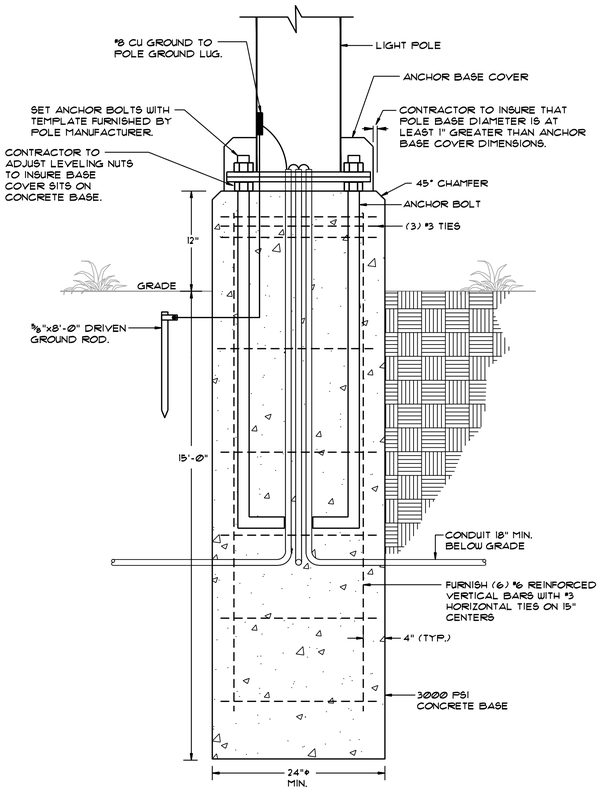
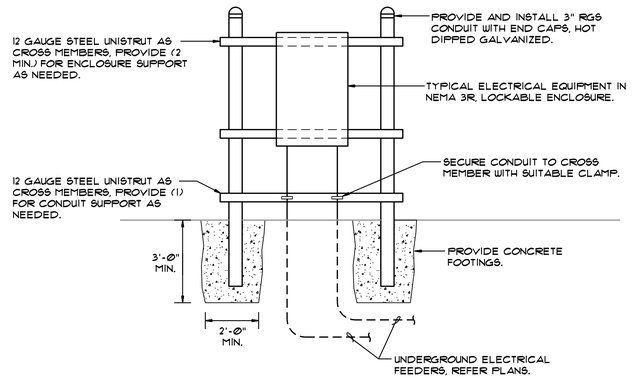
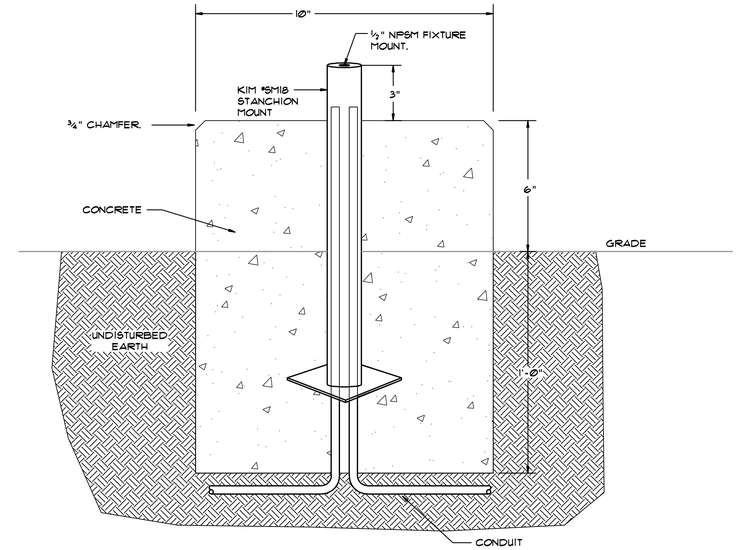


1 TYPICAL POLE BASE DETAIL
SCALE: NONE



2 RACK MOUNTED EQUIPMENT DETAIL
SCALE: NONE



3 FIXTURE TYPE 'B' MOUNTING STANCHION INSTALLATION DETAIL
SCALE: NONE

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KHA PROJECT 068925100
DATE Nov. 01, 2022
SCALE AS SHOWN
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DRAWN BY CAD
CHECKED BY JW

ELECTRICAL DETAILS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY TEXAS
BURKEVILLE

SHEET NUMBER
E2.02

EA ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

DIVISION 16

ELECTRICAL SPECIFICATIONS:

A. GENERAL:

1. PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, ETC. FOR COMPLETE OPERATING ELECTRICAL SYSTEMS FOR LIGHTING, POWER AND CONTROL AS DESCRIBED HEREIN AND ILLUSTRATED ON THE DRAWINGS.

B. SCOPE OF WORK:

1. WORK INCLUDED: PROVIDE COMPLETE ELECTRICAL WORK WHERE SHOWN ON DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING SUMMARY OF WORK:
    - a. UNDERGROUND SECONDARY ELECTRIC SERVICES.
    - b. RACK MOUNTED PANELS.
    - c. POLE MOUNTED SITE AND AREA LIGHTING FIXTURES.
    - e. LIGHT POLE FOUNDATIONS.
    - f. LIGHTING CONTROLS.
    - g. HIGH VOLUME CEILING FAN AND CONTROL.
    - h. WIRING DEVICES AND BRANCH CIRCUIT WIRING.
    - i. OTHER ITEMS AND SERVICES REQUIRED TO COMPLETE THE SYSTEMS.

C. CODE COMPLIANCE:

1. ELECTRICAL WORK TO CONFORM WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND APPLICABLE LOCAL ORDINANCES.

D. RACEWAYS:

1. RACEWAYS SHALL BE SIZED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE N.E.C. TO PREVENT DAMAGE TO THE CONDUCTORS. DO NOT USE RACEWAYS SIZED LESS THAN 3/4" UNLESS SPECIFIED OTHERWISE.
2. PROVIDE GALVANIZED RIGID METAL RACEWAY FOR ALL USES IN DAMP AND WET LOCATIONS, IN HAZARDOUS AREAS AND IN LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
3. ALL CONDUIT ENTERING BOXES SHALL BE SECURED WITH INSULATING THROAT CONNECTORS AND LOCKNUTS.
4. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT CONNECTION FOR FINAL CONNECTION TO EACH MOTOR, NOT TO EXCEED 36 INCHES IN LENGTH.
5. ALL EXPOSED RACEWAYS SHALL BE INSTALLED WITH RUNS PARALLEL AND/OR PERPENDICULAR WITH STRUCTURAL MEMBERS AND WALLS.
6. PROVIDE FIRE SEALING MATERIALS FOR ALL RACEWAYS PASSING THROUGH FIRE RATED PARTITIONS, WALLS AND FLOORS.

E. HANGERS AND SUPPORTS:

1. USE CAST "C" CLAMPS, "U" STRAPS OR RING HANGERS ATTACHED TO RODS, AND/OR BRACKETS FASTENED TO STRUCTURE FOR INDIVIDUAL CONDUITS.
2. SUPPORT GROUPED RACEWAYS TOGETHER IN HORIZONTAL RUNS ON TRAPEZE HANGERS CONSTRUCTED OF UNISTRUT OR EQUAL SUSPENDED FROM CAD-PLATED STEEL RODS.

F. WIRE AND CABLES:

1. ELECTRICAL CONDUCTORS SHALL BE OF SOFT DRAWN COPPER WITH CONDUCTIVITY 98% OF PURE COPPER, EQUAL TO GENERAL CABLE COMPANY.
2. ELECTRICAL CONDUCTORS SHALL BE SOLID FOR #10 AND SMALLER, STRANDED FOR #8 AND LARGER.
3. WIRE AND CABLE FOR ALL BRANCH CIRCUITS, FEEDERS, SUB-FEEDERS, MOTOR CIRCUITS AND HIGH AMBIENT LOCATIONS SHALL BE TYPE THWN/THHN.
4. ALL LIGHTING AND POWER CIRCUITS SHALL BE #12 OR LARGER.
5. FOR 120V CIRCUITS: HOME RUNS OVER 100' LONG, USE #10 CONDUCTORS.
6. FOR 120V CIRCUITS: HOME RUNS OVER 200' LONG, USE #8 CONDUCTORS.
7. CONSISTENTLY COLOR CODE WIRING CONTINUOUS THROUGHOUT THE WORK:
    - a. 120/240 VOLT SYSTEMS:
        1. PHASE A - RED.
        2. PHASE B - BLACK.
        3. NEUTRAL - WHITE.
        4. GROUND - GREEN.
    - b. 277/480 VOLT SYSTEMS:
        1. PHASE A - BROWN.
        2. PHASE B - ORANGE.
        3. PHASE C - YELLOW.
        4. NEUTRAL - GRAY.
        5. GROUND - GREEN.
8. BRANCH CIRCUIT WIRING MAY BE COMBINED INTO A SINGLE RACEWAY IN ACCORDANCE WITH NOTE 8 TO TABLES 310-16 THROUGH 310-31 OF THE N.E.C., UNLESS OTHERWISE NOTED.
9. FEEDER WIRING SHALL NOT BE COMBINED INTO A SINGLE RACEWAY.

G. SPLICES AND TAPS:

1. STRANDED CONDUCTORS, #8 OR LARGER, SHALL BE SPLICED AND TAPPED WITH CAST COPPER SOLDERLESS PRESSURE CONNECTORS WITH MOLDED PHENOLIC INSULATING COVERS, O.Z. TYPE XTP OR PM, OR INSULATED WITH RUBBER END FRICTION TAPE.
2. SOLID CONDUCTORS, #10 AND SMALLER, SHALL BE SPLICED WITH INSULATED SPRING CONNECTORS, IDEAL OR 3M COMPANY.

H. GROUNDING:

1. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
2. PROVIDE TWO-HOLE, PAD TYPE COMPRESSION CONNECTORS, T&B COLOR-KEYED TYPE OR BURNDY.
3. ENSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED.

I. OUTLET BOXES:

1. GENERAL ELECTRIC, APPLETON, STEEL CITY OR RACO HOT DIPPED GALVANIZED STEEL BOXES, OR EQUAL, UNLESS SPECIFIED OTHERWISE.
2. PROVIDE SIZE, TYPE, DESIGN, TO SUIT STRUCTURAL CONDITIONS.
3. ADEQUATE TO ACCOMMODATE SIZE AND NUMBER OF RACEWAYS, CONDUCTORS, AND DEVICE OR FIXTURE SERVED BY IT.
4. PROVIDE PLASTER RINGS AND/OR COVERS ON BOXES WHERE REQUIRED.
5. ON EXPOSED WORK, PROVIDE APPROVED CAST FERROUS ALLOY OUTLET, JUNCTION BOXES AND FITTINGS.
6. FIXTURE OR DEVICE COVER SHALL COMPLETELY CONCEAL THE TYPE OUTLET BOX USED.
7. RECEPTACLES SHALL BE MOUNTED 18 INCHES ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

J. PULL AND JUNCTION BOXES:

1. SHEET METAL BOXES: ANSI/NEMA OS 1: GALVANIZED STEEL.
2. SHEET METAL BOXES LARGER THAN 12 INCHES IN ANY DIMENSION SHALL HAVE A HINGED ENCLOSURE.
3. CONCRETE BOXES FOR IN-GROUND INSTALLATIONS: TYPE 4. OUTSIDE FLANGED, RECESSED COVER BOX FOR FLUSH MOUNTING, PLAIN COVER WITH NEOPRENE GASKET AND STAINLESS STEEL COVER SCREWS.
4. LOCATE PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS OR IN UNFINISHED AREAS.
5. SUPPORT PULL AND JUNCTION BOXES INDEPENDENT OF CONDUIT.
6. SET IN-GROUND PULL AND JUNCTION BOXES LEVEL AND FLUSH WITH FINISHED GRADE.
7. PROVIDE COVERPLATES FOR ALL JUNCTION BOXES.
8. INDICATE ON COVERPLATES, WITH PERMANENT MARKER, CIRCUITS CONTAINED WITHIN JUNCTION BOXES.

K. WIRING DEVICES:

1. 125 VOLT, 20A, THREE WIRE, IVORY, DUPLEX RECEPTACLES WITH MATCHING COVERPLATES, NEMA 5-20R, LEVITON OR EQUAL BY ARROW HART.

L. COVER PLATES:

1. ALL COVER PLATES FOR SURFACE AND CONDULET MOUNTED WIRING DEVICES SHALL BE OF ZINC-COATED SHEET METAL HAVING ROUNDED OR BEVELED EDGES, AND OF THE SAME SIZE AS THE BOXES WHICH THEY COVER.

M. PANELBOARDS:

1. THE PANELBOARDS SHALL BE ARRANGED GENERALLY AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING:
    - a. SIEMENS.
    - b. GENERAL ELECTRIC.
    - c. SQUARE D COMPANY.
2. PROVIDE DEAD-FRONT SAFETY TYPE LIGHTING AND APPLIANCE PANELBOARDS AS INDICATED, WITH SWITCHING AND PROTECTIVE DEVICES IN QUANTITIES, RATINGS, TYPES AND ARRANGEMENTS SHOWN, WITH ANTI-BURN SOLDERLESS PRESSURE TYPE LUG CONNECTORS APPROVED FOR COPPER CONDUCTORS.
3. EQUIP WITH COPPER BUS BARS, FULL SIZED NEUTRAL BAR, WITH BOLT-IN TYPE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK, SINGLE-POLE CIRCUIT BREAKERS, WITH TOGGLE HANDLES THAT INDICATE WHEN TRIPPED. INTERRUPTING RATING SHALL BE IN EXCESS OF THE AVAILABLE FAULT CURRENT AT THE PANEL IN ACCORDANCE WITH UL LISTING FOR SIZES INVOLVED, BUT NO LESS THAN 10,000 RMS SYMMETRICAL AMPERES.
4. PROVIDE SUITABLE LUGS ON NEUTRAL BUS FOR EACH OUTGOING FEEDER REQUIRED, PROVIDE UNINSULATED GROUNDING BARS SUITABLE FOR BOLTING TO ENCLOSURES. SELECT ENCLOSURES FABRICATED BY SAME MANUFACTURER AS PANELBOARDS, WHICH MATE PROPERLY WITH PANELBOARDS.

N. LIGHTING FIXTURES:

1. ALL LIGHTING FIXTURES SHOWN ON THE DRAWINGS ARE FURNISHED AND INSTALLED BY THIS CONTRACTOR. INCLUDE ALL COSTS NECESSARY FOR THE INSTALLATION INCLUDING MOUNTING, SUPPORTS AND FOUNDATIONS.
2. FURNISH ALL ACCESSORIES REQUIRED FOR EACH AND EVERY FIXTURE. PROVIDE APPROPRIATE HANGER, BARS, ETC., OF NON-FERROUS OR CADMIUM PLATED STEEL MATERIALS, TO SUPPORT FIXTURES.
3. REFERENCE NEW LIGHTING FIXTURE SCHEDULE.

O. NAMEPLATES:

1. DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS: PROVIDE ENGRAVED, LAMACOID PLASTIC NAMEPLATE SHOWING PANELBOARD DESIGNATION AND SOURCE (CIRCUIT DESIGNATION) OF POWER.
2. DISCONNECT SWITCHES: PROVIDE ENGRAVED, LAMACOID PLASTIC NAMEPLATE SHOWING EQUIPMENT DESIGNATION AND SOURCE (CIRCUIT DESIGNATION) OF POWER. PROVIDE NEW NAMEPLATES FOR EQUIPMENT BEING REFED.
3. DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS: PROVIDE NEATLY TYPEWRITTEN CIRCUIT DIRECTORY IN CARDHOLDER INSIDE PANELBOARD DOOR.

P. SUBMITTALS:

1. PRODUCT DATA: SUBMIT THE FOLLOWING:
    - a. MATERIALS LIST OF ITEMS PROPOSED TO BE PROVIDED UNDER DIVISION 16.
    - b. MANUFACTURER'S SPECIFICATIONS AND OTHER DATA NEEDED TO PROVE COMPLIANCE WITH THE SPECIFIED ITEMS.
2. SUBMITTALS REQUIRED OF MATERIALS AND EQUIPMENT UNDER THIS SECTION INCLUDE THE FOLLOWING:
    - a. PANELBOARDS.
    - b. CIRCUIT BREAKERS.
    - c. LIGHTING FIXTURES.
    - d. HIGH VOLUME CEILING FAN AND CONTROL.
    - e. CONDUCTORS.
    - f. CONDUIT AND FITTINGS.
    - g. CONTACTORS, RELAYS TIMECLOCKS, AND CONTROLS.
    - h. WIRING DEVICES AND COVERPLATES.
    - i. GROUNDING AND BONDING SYSTEM.

Q. SUBSTITUTIONS:

1. SUBMITTALS FOR "EQUAL" ITEMS SHALL, WHERE APPLICABLE, INCLUDE THE FOLLOWING DATA WHICH ARE NOT NECESSARILY REQUIRED FOR SPECIFIED ITEMS:
    - a. PERFORMANCE CHARACTERISTICS
    - b. MATERIALS
    - c. FINISH
    - d. CERTIFICATION OF CONFORMANCE WITH SPECIFIED CODES AND STANDARDS.
2. SUBMITTALS OF "EQUAL" COMPONENTS OR SYSTEMS MAY BE REJECTED IF:
    - a. THE MATERIALS OR EQUIPMENT WOULD NECESSITATE THE ALTERATION OF ANY PORTION OF THE MECHANICAL, ELECTRICAL, ARCHITECTURAL OR STRUCTURAL DESIGN.
    - b. DIMENSIONS VARY FROM THE SPECIFIED MATERIAL OR EQUIPMENT IN SUCH A MANNER THAT THE ACCESSIBILITY OR CLEARANCES ARE IMPAIRED OR THE WORK OF OTHER TRADES IS ADVERSELY AFFECTED.
3. PROPOSED SUBSTITUTIONS FOR MATERIALS OR EQUIPMENT MUST BE SUBMITTED TEN (10) DAYS PRIOR TO FINAL BID DATE FOR CONSIDERATION AS APPROVED EQUALS. OTHERWISE, SUCH SUBSTITUTIONS WILL NOT BE PERMITTED. PROPOSALS FOR SUBSTITUTIONS SHALL BE MADE ONLY BY THE BIDDERS. MANUFACTURERS, DISTRIBUTORS AND SUBCONTRACTORS SHALL NOT MAKE PROPOSALS TO THE OWNER FOR SUBSTITUTIONS.
4. NO SUBSTITUTIONS SHALL BE MADE UNLESS AUTHORIZED IN WRITING BY THE OWNER. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED, AND WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REPLACE THIS MATERIAL OR EQUIPMENT WITH MATERIAL OR EQUIPMENT SPECIFIED, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE OWNER.

R. GUARANTEE:

1. GUARANTEE ENTIRE INSTALLATION TO BE IN GOOD REPAIR AND PROPER WORKING ORDER FOR A PERIOD OF ONE-YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

S. CLOSE OUT DOCUMENTS

1. PROVIDE OWNER WITH AS-BUILTS DRAWINGS, MANUFACTURER'S WARRANTIES AT FINAL ACCEPTANCE OF INSTALLATION.

END OF SPECIFICATION

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11700 KATY FREEWAY, SUITE 800, HOUSTON, TX 77079
PHONE: 281-597-9300
WWW.KIMLEY-HORN.COM
TBPE FIRM REGISTRATION F-928

JIM D. DALLAS
85922
LICENSED
11/01/2022

ENGINEERING ASSOCIATES
TX REG #F-4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440

No.	REVISIONS	DATE	BY

KHA PROJECT 068925100
DATE Nov. 01, 2022
SCALE AS SHOWN
DESIGNED BY JW
DRAWN BY CAD
CHECKED BY JW

ELECTRICAL SPECIFICATIONS

SAM COLLINS PARK PHASE 1A
PREPARED FOR
SABINE RIVER AUTHORITY
BURKEVILLE TEXAS

SHEET NUMBER
E2.03

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