

CONSTRUCTION PLANS
FOR
SABINE RIVER AUTHORITY OF TEXAS
PENDLETON PROPERTY PHASE 2

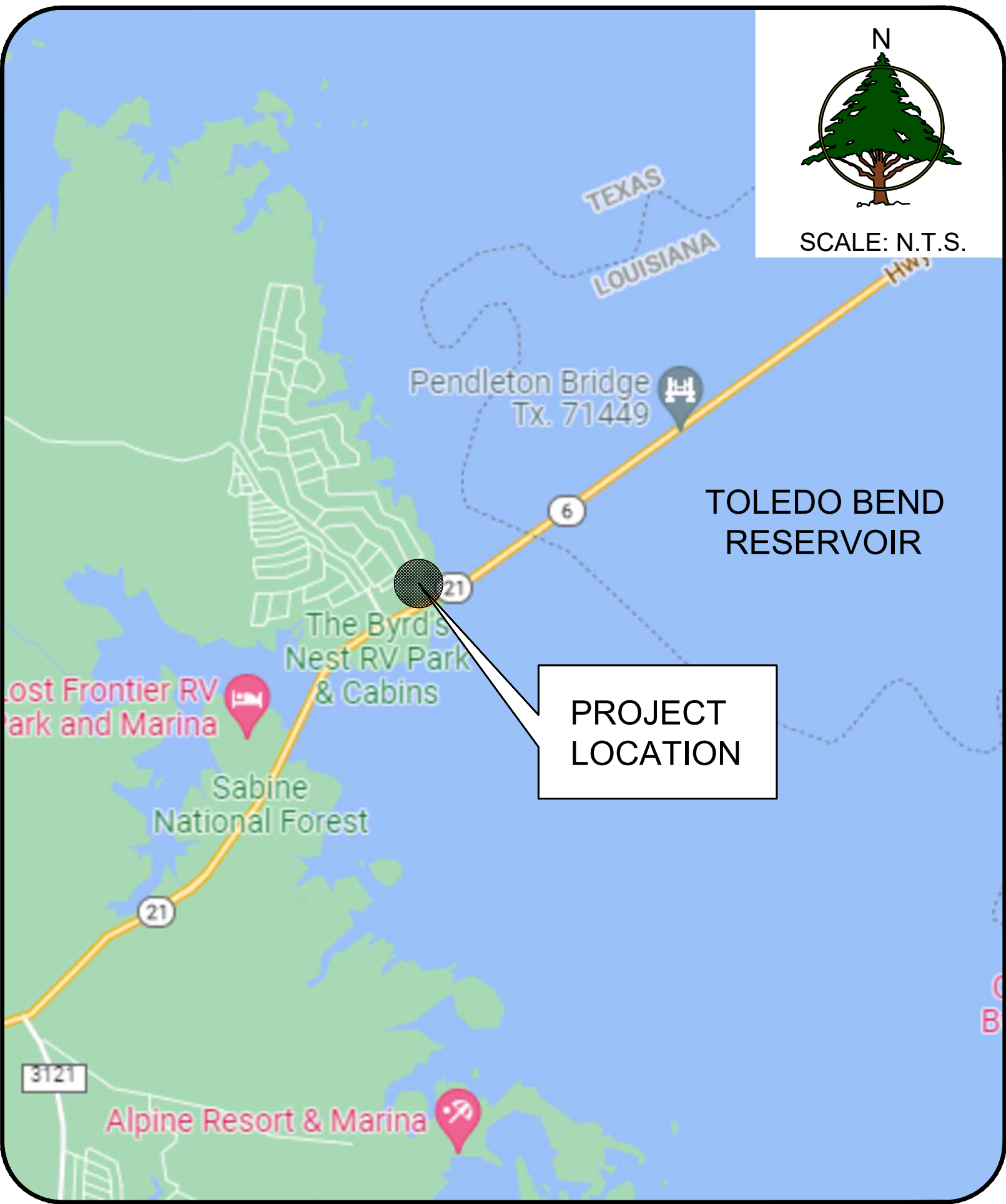
SRA PROJECT # - RFB 23-1207
HEMPHILL, TEXAS
SABINE COUNTY
October 2022



BOARD OF DIRECTORS

| | |
|--------------------------|---|
| THOMAS "TOM" BEALL | PRESIDENT |
| JANIE WALENTA | VICE-PRESIDENT |
| JEFFREY D. "JEFF" JACOBS | SECRETARY / TREASURER |
| JOSHUA A. "JOSH" MCADAMS | SECRETARY PRO-TEM |
| KEVIN M. WILLIAMS | BOARD MEMBER |
| CLIFF TODD | BOARD MEMBER |
| JEANETTE STERNER | BOARD MEMBER |
| ELTON BROCK | BOARD MEMBER |
| DARRIN R. "RUDY" RUDOLPH | BOARD MEMBER |
| DAVID MONTAGNE | EXECUTIVE VICE-PRESIDENT & GENERAL MANAGER |

VICINITY MAP



| SHEET INDEX | |
|-------------|-----------------------------|
| NUMBER | TITLE |
| C1 | COVER SHEET |
| C2 | GENERAL NOTES |
| C3 | SITE PLAN |
| C4 | EROSION CONTROL PLAN |
| C5 | GRADING PLAN |
| C6 | PAVING PLAN |
| C7 | CONTROL PLAN |
| C8 | UTILITY PLAN |
| C9 | EXISTING DRAINAGE AREA MAP |
| C10 | PROPOSED DRAINAGE AREA MAP |
| C11 | DRAINAGE PLAN |
| C12 | PLAYGROUND PLAN |
| C13 | PLAYGROUND SURFACING PLAN |
| C14 | PLAYGROUND EQUIPMENT |
| C15 | ALTERNATE PLAYGROUND LAYOUT |
| C16 | ALTERNATE BID LAYOUT |
| C17 | CONSTRUCTION DETAILS I |
| C18 | CONSTRUCTION DETAILS II |
| C19 | CONSTRUCTION DETAILS III |
| C20 | CONSTRUCTION DETAILS IV |
| C21 | CONSTRUCTION DETAILS V |
| C22 | CONSTRUCTION DETAILS VI |
| C23 | CONSTRUCTION DETAILS VII |
| C24 | CONSTRUCTION DETAILS VIII |
| C25 | CONSTRUCTION DETAILS IX |
| C26 | CONSTRUCTION DETAILS X |
| C27 | CONSTRUCTION DETAILS XI |
| L1 | TREE AND SOD PLAN |
| L2 | OVERALL LANDSCAPE PLAN |
| L3 | LANDSCAPE PLAN I |
| L4 | LANDSCAPE PLAN II |
| L5 | IRRIGATION PLAN OVERALL |
| L6 | IRRIGATION PLAN I |
| L7 | IRRIGATION PLAN II |
| L8 | IRRIGATION PLAN III |
| S1-S8 | STRUCTURAL PLANS |
| E1-E5 | ELECTRICAL PLANS |



Know what's below.
Call before you dig.

REVISIONS:

MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Suite 100, Texas 75701
Phone: 817-457-4606
Fax: 817-457-4606
TDAE - DR-4525

COVER SHEET
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR
CHECKED: WHS
DATE: 10/31/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C1

GENERAL CONSTRUCTION NOTES:

- ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL UTILITY LOCATIONS MAY VARY FROM THE LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY FREEMAN SURVEYING & MAPPING, LLC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E) WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, PAVEMENT, STRIPING, CURB, SIDEWALKS, DRIVEWAYS, FENCES, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. DAMAGE TO ANY UTILITY SHALL BE REPAIRED BY THE UTILITY OWNER BUT AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- ALL WORK ON THESE PLANS SHALL BE DONE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.
- DURING CONSTRUCTION OF THESE IMPROVEMENTS, ANY DEVIATION FROM THESE SPECIFICATIONS WILL REQUIRE APPROVAL IN WRITING FROM THE OWNER AND HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNER'S INSPECTING AUTHORITIES.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE REPLACED, AT CONTRACTOR'S EXPENSE, ALL CORNER MONUMENTS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND MAINTAINED TO FULLY FUNCTION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED THAN WHAT IS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE TPDES.
- PLACE STABILIZATION FABRIC ON ALL SLOPES STEEPER THAN 3H:1V. CONTRACTOR SHALL PLACE FOUR (4) INCHES OF TOPSOIL (LOOSE) ON ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS. SEED OR SOD ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS AND MAINTAIN SAME UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDROSEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1ST TO AUGUST 31ST). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE.
- AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED.
- AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.
- SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED.
- DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED OR RE-SODDED, IF NECESSARY.
- THERE IS TO BE ONE CONCRETE WASH-OUT PIT LOCATED ON THE SITE. THE LOCATION OF THIS WASH-OUT PIT IS TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY DISPOSE OF ALL EXCESS CONCRETE MATERIAL.
- LOCATION OF CONSTRUCTION EXITS SHALL BE PLACED IN THE FIELD AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR WILL BE REQUIRED TO FILE A NOTICE OF INTENT (NOI) PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MONITOR SITE EROSION THROUGHOUT THE CONSTRUCTION PROCESS. ONCE THE PROJECT IS COMPLETED, THE CONTRACTOR SHALL FILE THE REQUIRED NOTICE OF TERMINATION (NOT) WITH THE EPA.
- ALL WASTE MANAGEMENT PRACTICES (EXISTING HAZARDOUS WASTE, SOLID WASTE, CONCRETE WASTE, ETC.) SHALL COMPLY WITH TCEQ REQUIREMENTS.

DEMOLITION NOTES:

- NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN SITE MAP OR EROSION CONTROL PLAN AND THE SPECIFICATIONS.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION, AND DISPOSAL OF ALL DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR DEMOLITION OF STRUCTURES.
- NOTES SHOWN HEREON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND DETERMINING THE EXTENT OF EXISTING IMPROVEMENTS TO BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANIES ON THE DISCONNECTION OR TERMINATION OF ANY UTILITIES SERVING THIS AREA.
- ALL FENCING AND OTHER MAN-MADE ELEMENTS, ETC., WITHIN CONSTRUCTION AREA, UNLESS OTHERWISE IDENTIFIED, SHALL BE REMOVED AND DISPOSED OF OFF SITE.
- REMOVAL OF ANY TREES OTHER THAN THOSE SPECIFIED IN THESE PLANS SHALL BE COORDINATED WITH THE OWNER. THIS REMOVAL SHALL INCLUDE THE ROOT BALL OF THE TREES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED DEMOLITION PERMITS.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION, SITE PREPARATION AND EARTHWORK FOR THIS PROJECT.

PAVING / DRAINAGE NOTES:

- NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED AND PERIMETER EROSION CONTROL MEASURES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATER-TIGHT FIT.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES LOCATED IN PAVED OR OTHER VEHICULAR AREAS SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
- ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE OF MAX. 5.0% AND CROSS SLOPE OF MAX. 2.0%, PER TAS REQUIREMENTS.
- RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE SITEWORK SPECIFICATIONS & DETAILS.
- IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.010 FEET.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT, WHERE APPLICABLE.
- CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT AT ADJACENT ROADWAYS.
- ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING, WHERE APPLICABLE.
- DRAINAGE SHALL BE MAINTAINED AWAY FROM FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
- ALL EARTHWORK AND PAVING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT (PROJECT #93215101) BY TERRACON DATED 1/7/2022.
- ALL PROPOSED CONTOURS AND SPOT GRADES ARE FOR THE FINISHED SURFACE. CONTRACTOR SHALL ADJUST ROUGH GRADING AS NEEDED TO ACCOUNT FOR IMPORT MATERIALS.
- ALL PAVING AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL GOVERNING CODES, REQUIREMENTS AND SPECIFICATIONS. WHERE ANY QUESTIONS ARISE AS TO THE INTERPRETATION OF THE STANDARDS OF DESIGN, PLEASE CONTACT THE CONSULTANT.

SPECIAL CONDITIONS:

- 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:

 - IMMEDIATELY CEASE ALL WORK CONTRIBUTING TO THE WATER QUALITY VIOLATION.
 - 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.
- 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.
- 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 THE PROJECT ARE SUFFICIENTLY STABILIZED TO PREVENT EROSION, SILTATION, AND TURBID DISCHARGES.
- THE PERMITTEE SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO REDUCE THE RISK OF TRANSFERRING INVASIVE PLANT AND ANIMAL SPECIES TO OR FROM PROJECT SITES. INFORMATION CONCERNING STATE SPECIFIC LISTS AND THREATS CAN BE FOUND AT: [HTTPS://WWW.INVASIVESPECIESINFO.GOV/US/TEXAS](https://www.invasivespeciesinfo.gov/us/texas). BEST MANAGEMENT PRACTICES CAN BE FOUND AT: [HTTPS://WWW.INVASIVESPECIESINFO.GOV/SUBJECT/PREVENTION](https://www.invasivespeciesinfo.gov/subject/prevention). KNOWN ZEBRA MUSSEL WATERS CAN BE FOUND AT: [HTTPS://NAS.ER.USGS.GOV/QUERIES/FACTSHEET.ASPX?SPECIESID=5](https://nas.er.usgs.gov/queries/factsheet.aspx?speciesid=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 HYDREX 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.
- THE PERMITTEE SHALL DEBIT 1.3 CREDITS FROM THE WEST MINEOLA MITIGATION BANK IN COMPLIANCE WITH THE PROVISIONS OF THE "MITIGATION BANKING INSTRUMENT, WEST MINEOLA MITIGATION BANK, WOOD COUNTY, TEXAS," DATED JULY 16, 2004. THIS DEBIT SHALL COMPENSATE OFF-SITE FOR UNAVOIDABLE ADVERSE PROJECT IMPACTS THAT WOULD NOT BE COMPENSATED FOR BY ON-SITE MITIGATION. THE PERMITTEE SHALL COMPLETE THE MITIGATION BANK TRANSACTION AND PROVIDE DOCUMENTATION TO THE USACE THAT THE TRANSACTION HAS OCCURRED PRIOR TO COMMENCING ANY GROUND/DISTURBING ACTIVITY WITHIN WATERS OF THE UNITED STATES.
- 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 ARMY 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.
- THE PERMITTEE SHALL TAKE THE FOLLOWING MEASURES TO ENSURE PROTECTION OF HISTORIC PROPERTIES. THE PERMITTEE SHALL ENSURE THAT ALL RESULTS FROM THE PHASE I 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.

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 HISTORICAL COMMISSION (THC TRACKING NO. 202205986) REQUIRES THAT THE AREA NEAR THE EL CAMINO REAL SWALES AND CELLAR FEATURES BE AVOIDED. INSTALL PHYSICAL BARRIER (SUCH AS ORANGE FENCING) TO PROTECT THIS AREA.
- TEXAS PARKS AND WILDLIFE DEPARTMENT (TPWD) REQUIREMENTS:
 - MIGRATORY BIRD TREATY ACT ([HTTPS://WWW.FWS.GOV/ALASKA/LAW/MIGRATORY-BIRD-TREATY-ACT-1918](https://www.fws.gov/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 HATCHED 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 WITH THE 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.
- 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.

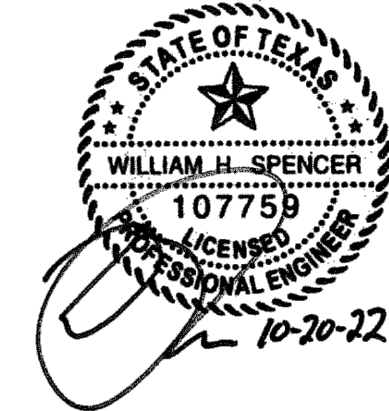
LANDSCAPE / IRRIGATION NOTES:

- ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND ORDINANCES.
- THE CONTRACTOR IS REQUIRED TO GRASS ALL AREAS DISTURBED BY CONSTRUCTION.
- AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.
- ALL PROPOSED PLANTS SHALL BE STAKED ON THE GROUND AND APPROVED BY CONSULTANT BEFORE BEING PLANTED.
- ALL PLANTING BEDS SHALL HAVE 4 INCH DEEP HARDWOOD MULCH.
- ALL LAWN AREAS SHALL BE SPRAYED WITH HERBICIDE, CROSS DISCED AND DRAGGED UNTIL SMOOTH PRIOR TO SEEDING.
- IRRIGATION SYSTEM IS BASED ON ASSUMED PSI AT THE PROPOSED BACKFLOW. CONTRACTOR SHALL VERIFY THAT ADEQUATE PSI IS AVAILABLE AFTER METER IS INSTALLED AND NOTIFY CONSULTANT IF IT ISN'T.
- SPRINKLER AND VALVE LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
- COORDINATE ALL MAINLINE AND LATERAL PIPE INSTALLATION LOCATIONS WITH ELECTRICAL PLANS AND ADJUST AS NECESSARY.
- IRRIGATION CONTROLLERS ARE TO BE PLACED IN THE LOCATIONS SHOWN ON THE PLANS. COORDINATE W/ ELECTRICAL DRAWINGS FOR CONTROLLER LOCATION & POWER SOURCE LOCATION.
- EXCEPT AS OTHERWISE PROVIDED, THE CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES AND FEES AND GIVE ALL NOTICES NECESSARY & INCIDENTAL TO THE DUE LAWFUL PROSECUTION OF THE WORK.
- CONTRACTOR SHALL NOTIFY PERTINENT UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION FOR CURRENT UTILITY LOCATIONS. EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION & CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO ANY UTILITIES.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE & THEFT & REPLACE ALL DAMAGED OR STOLEN PARTS UNTIL THE WORK IS ACCEPTED IN WRITING BY OWNER.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- ALL PIPES UNDER WALKWAYS AND DRIVEWAYS SHALL BE SLEEVED.



Know what's below.
Call before you dig.

REVISIONS:

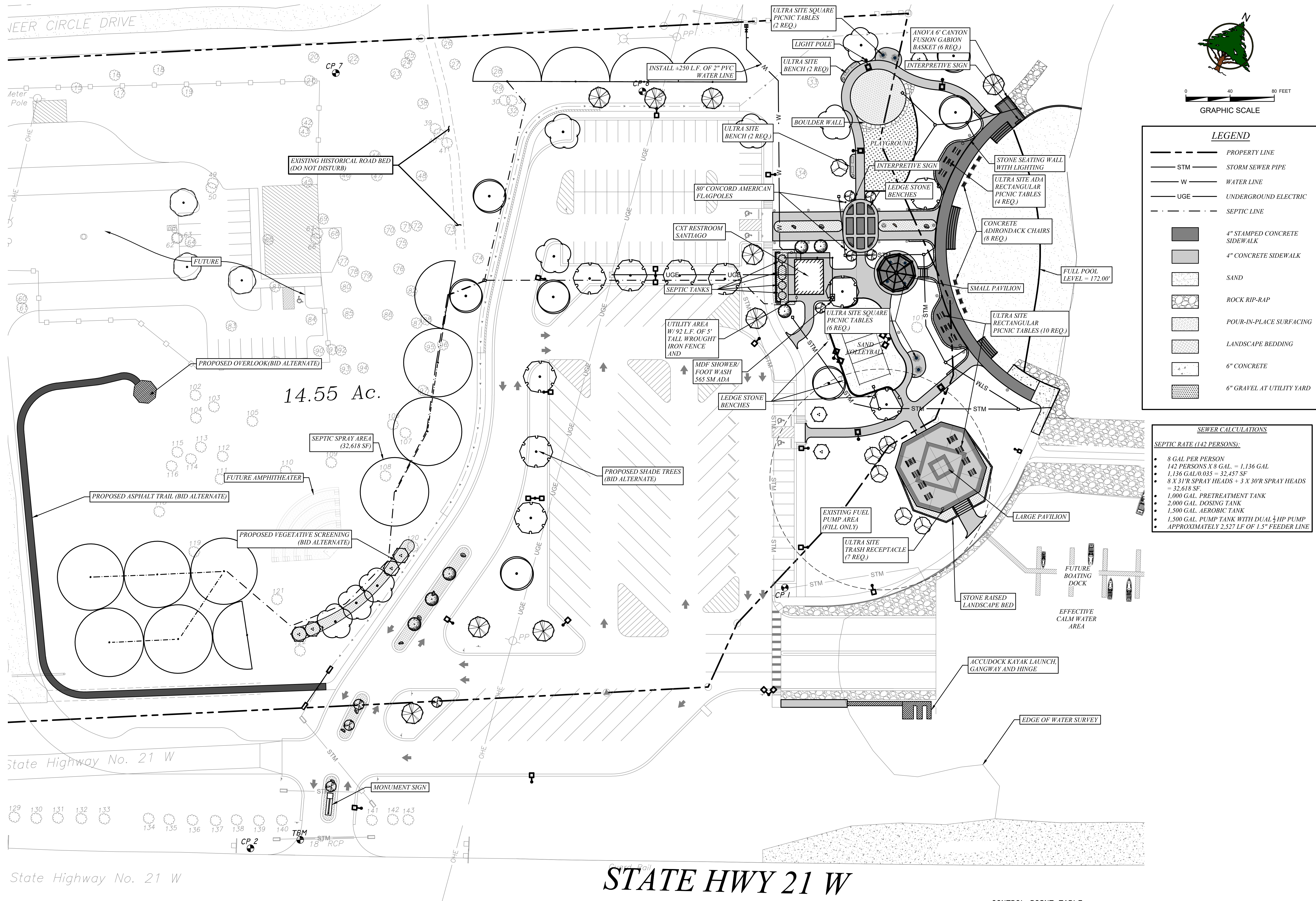


GENERAL NOTES
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

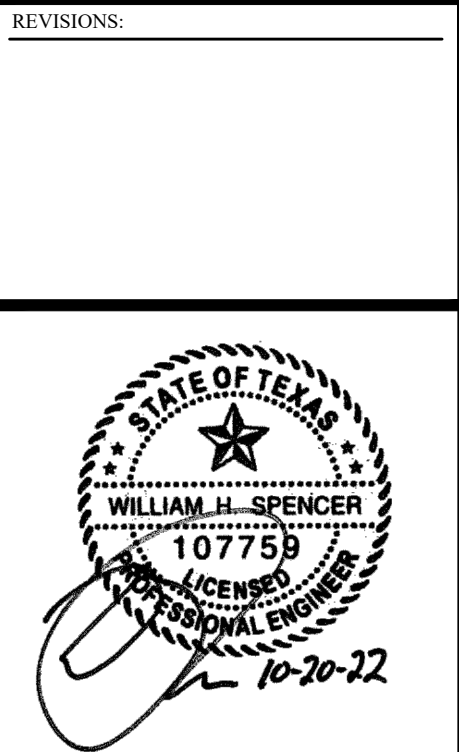
| | |
|----------|------------|
| DRAWN: | NSR |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C2

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\SITE PLAN.dwg



Know what's below.
Call before you dig.



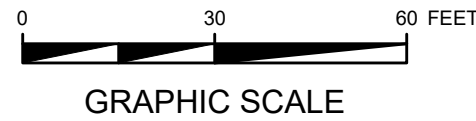
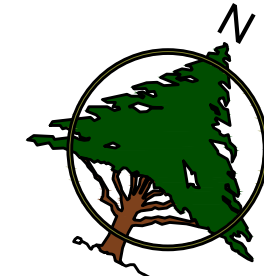
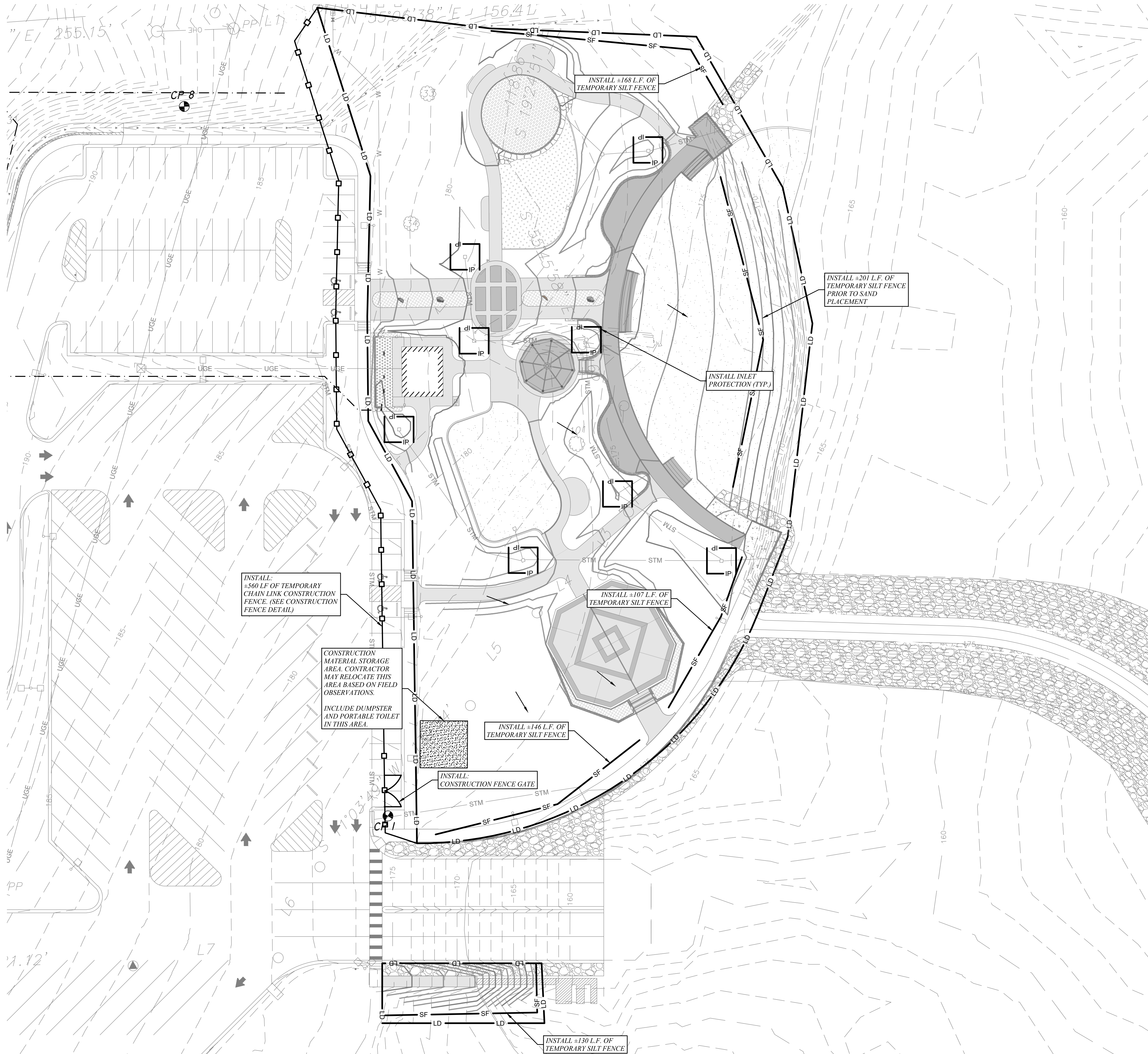
MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Suite 1100, Texas 75701
PDS-591-6006 TDAE - DR4525
TEPE No. 14571

SITE PLAN
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C3

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\EROSION CONTROL PLAN.dwg



LEGEND

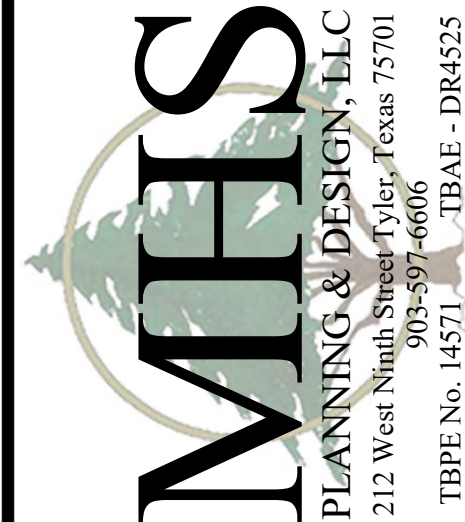
- 500 — EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- LD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- FLOW ARROW
- CONSTRUCTION EXIT
- EROSION CONTROL BLANKET
- ROCK FILTER DAM (TYPE 3)
- di IP INLET PROTECTION

NOTES:

- ALL SLOPES 4:1 OR STEEPER SHALL HAVE EROSION CONTROL MATTING.
- CONTRACTOR SHALL SEED AND ESTABLISH VEGETATION FOR ALL DISTURBED AREAS.
- EROSION CONTROL MEASURES SHALL BE REQUIRED THROUGHOUT CONSTRUCTION AND MAINTAINED TO FULLY FUNCTION UNTIL NO LONGER REQUIRED FOR FINAL STABILIZATION OF THE SITE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED THAN WHAT IS SHOWN ON THE PLANS.
- CONTRACTOR SHALL DAILY MONITOR ACCESS POINTS TO THE SITE FROM PUBLIC ROADWAYS AND SHALL INSTALL A CONSTRUCTION EXIT AT LOCATION(S) SELECTED BY THE CONTRACTOR TO PREVENT OR MINIMIZE OFF-SITE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE.
- TRAFFIC BARRICADES SHALL BE PROVIDED BY SRA. CONTRACTOR SHALL CONTROL TRAFFIC FOR THE SITE.
- SILT BAGS SHALL BE APPLIED TO ANY PIPE DISCHARGE THAT WILL FLOW TO THE LAKE TO PREVENT SITE SEDIMENT FROM RUNNING INTO THE LAKE.



REVISIONS:

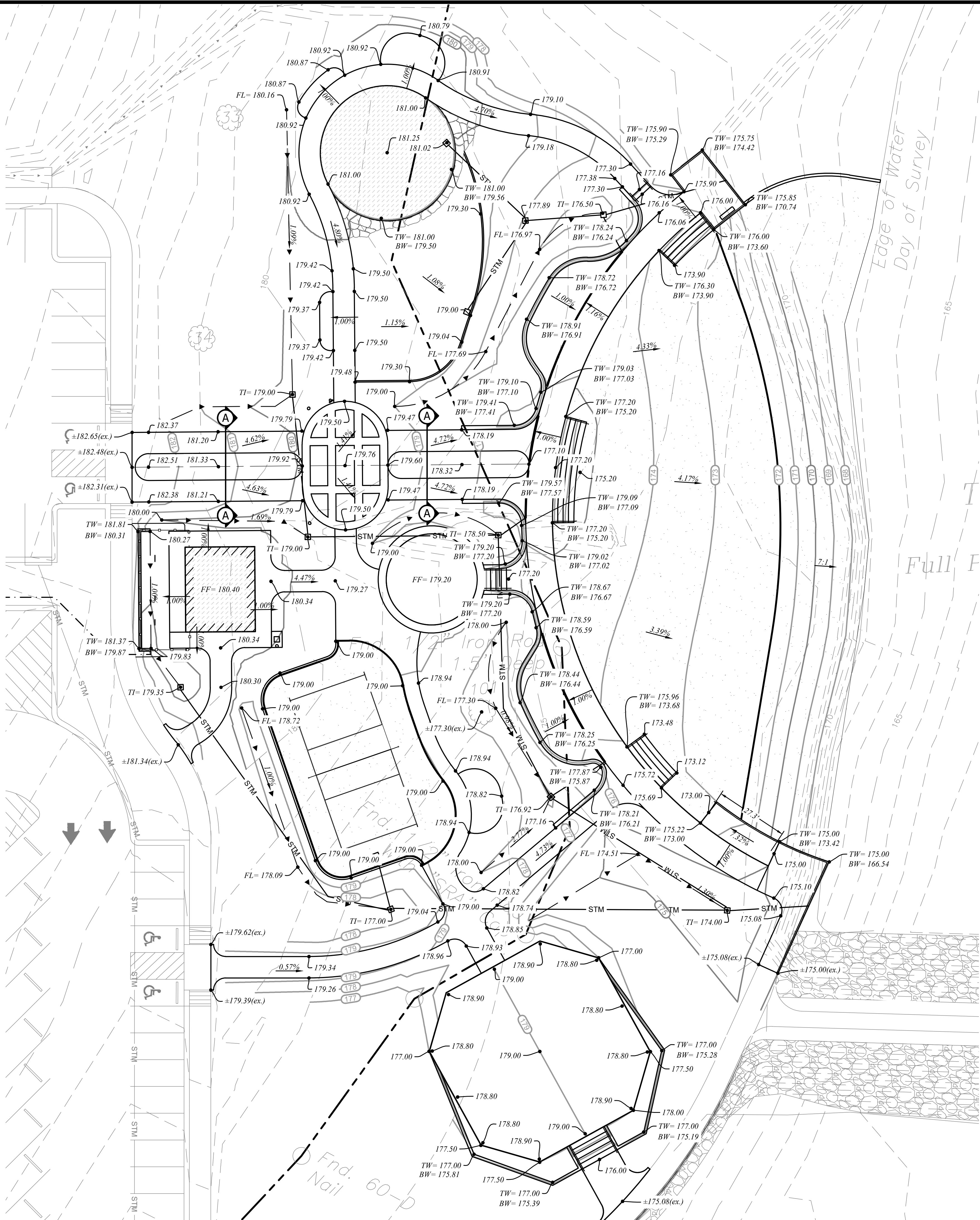


EROSION CONTROL PLAN
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C4

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\GRADING PLAN.dwg



- NOTES:
- ALL PAVING & EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT (JOB #93215101) BY TERRACON DATED 1/7/2022.
 - ALL TRAIL RUNNING SLOPES SHALL NOT EXCEED 5% AND ALL TRAIL CROSS SLOPES SHALL NOT EXCEED 2%. ALL TRAIL INTERSECTIONS SHALL NOT EXCEED 2%.

EARTHWORK SUMMARY

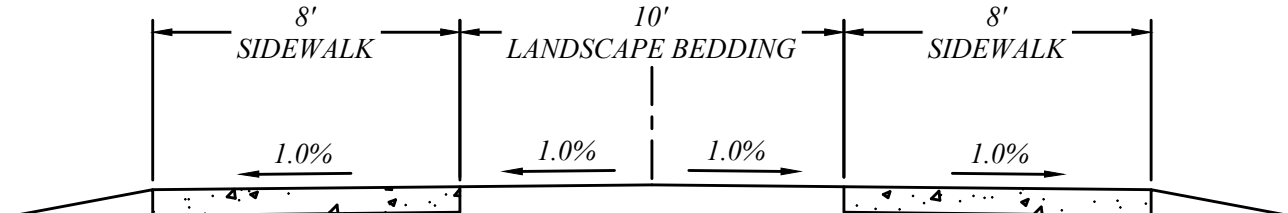
SURFACE CALCULATIONS:
CUT = 1,588 C.Y.
FILL = 2,652 C.Y.
NET = 1,064 C.Y. <FILL>

IMPORT MATERIALS:
GRAVEL = 221 C.Y.
CONCRETE = 208 C.Y.
SAND = 843 C.Y.
PAVILIONS = 74 C.Y.
SELECT FILL = 206 C.Y. (RR & PIP)

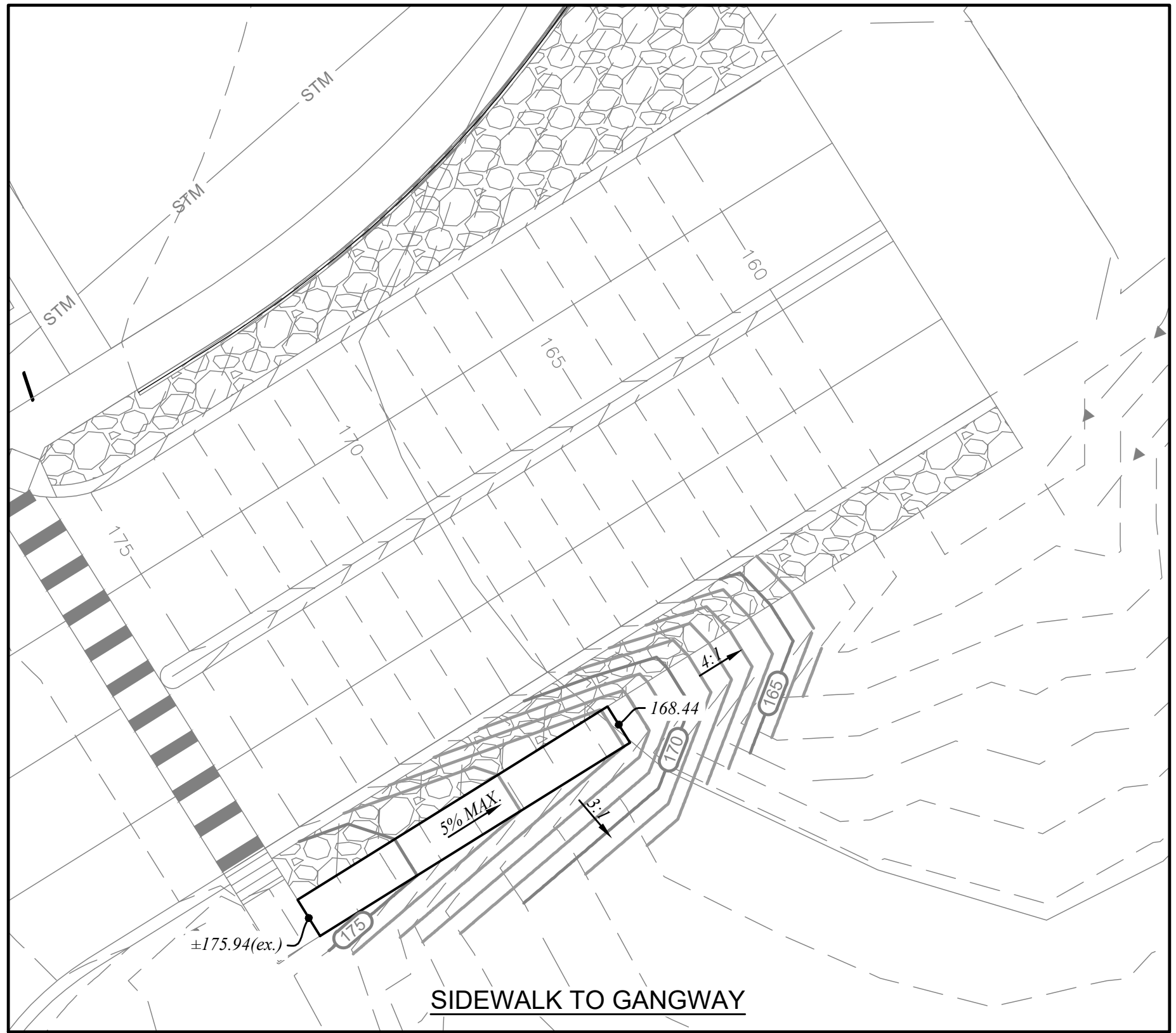
PHASE 1 STOCKPILE = ±3,373 C.Y.

NOTE:
EARTHWORK QUANTITIES ARE APPROXIMATE AND DERIVED FROM A SURFACE COMPARISON WITH A CUT & FILL FACTOR OF 1.0.

| LEGEND | |
|---------------|----------------------------------|
| — 500 — | EXISTING CONTOUR |
| — 500 — | PROPOSED CONTOUR |
| → | DIRECTION OF FLOW |
| → | FLOW ARROW |
| • ±528.2(ex.) | EXISTING SPOT ELEVATION |
| • ±25.8 | PROPOSED SPOT ELEVATION |
| • TP = 521.2 | TP = TOP OF PAVEMENT |
| • BC = 526.6 | BC = BACK OF CURB |
| • FL = 521.2 | FL = FLOW LINE |
| • TW = 524.7 | TW = TOP OF WALL |
| • BW = 523.7 | BW = BOTTOM OF WALL |
| • TI = 523.7 | TI = TOP OF INLET |
| ▨ | SELECT FILL (SEE GEOTECH REPORT) |



SECTION A-A
N.T.S.



Know what's below.
Call before you dig.

REVISIONS:

MHS

PLANNING & DESIGN, ELC

212 West Ninth Street Tyler, Texas 75701

936-591-6006

TXSPE No. 14571

TDAE - DR4525

GRADING PLAN

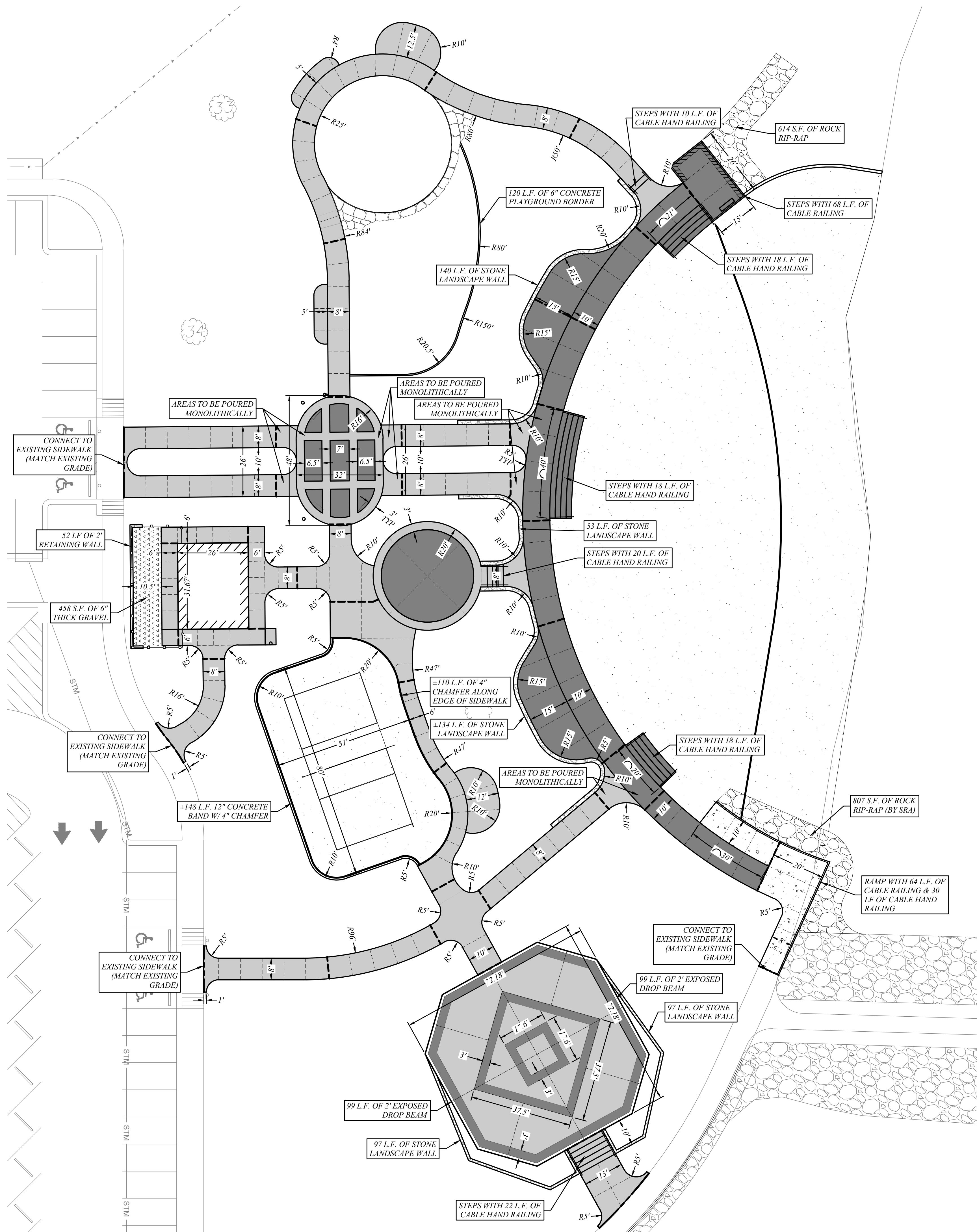
PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

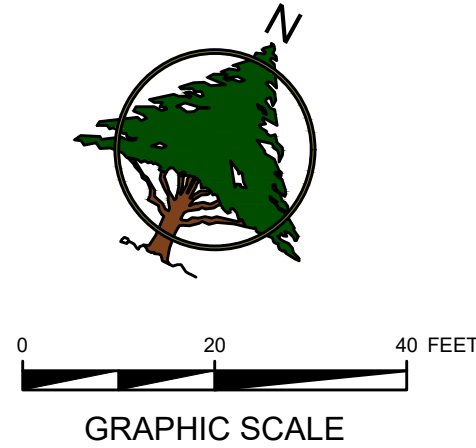
| | |
|----------|------------|
| DRAWN: | NSR |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C5

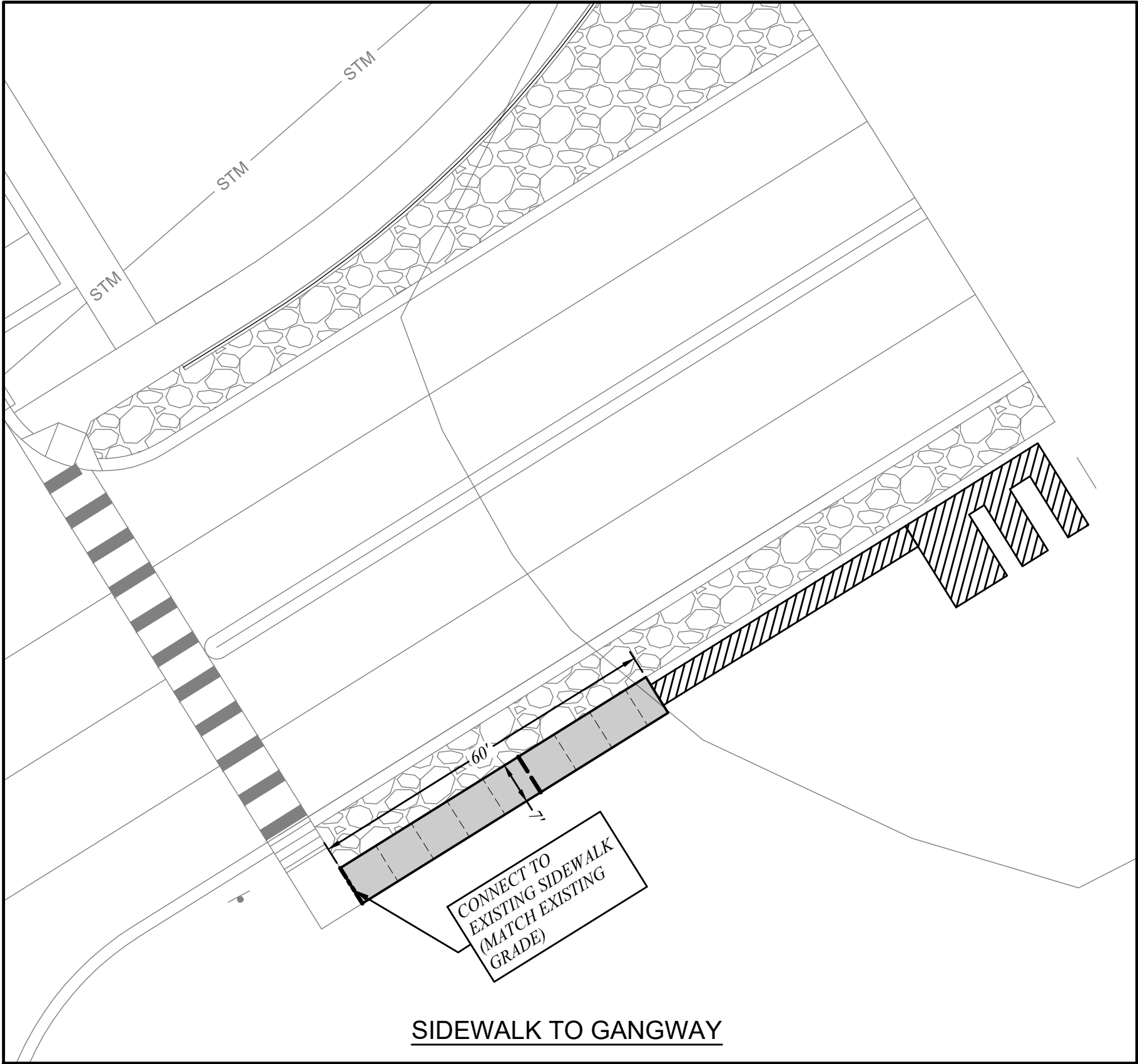
I:\river authorities\21-021 pendleton property park (sabine river authority)\cad - phase 203 - production\PAVING PLAN.dwg



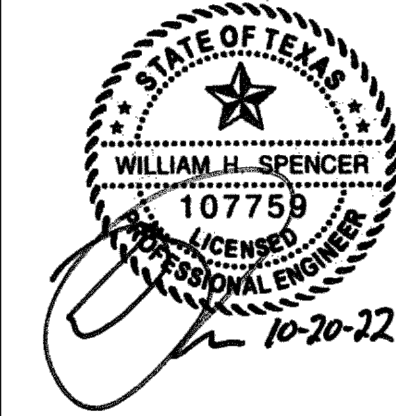
- NOTES:
1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 2. ALL PAVING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT (JOB #93215101) BY TERRACON DATED 1/7/2022.
 3. COORDINATES ARE BASED ON NAD83 TEXAS STATE PLANE, CENTRAL ZONE (4203).
 4. ALL TRAIL RUNNING SLOPES SHALL NOT EXCEED 5% AND ALL TRAIL CROSS SLOPES SHALL NOT EXCEED 2%. ALL TRAIL INTERSECTIONS SHALL NOT EXCEED 2%.
 5. ROCK RIP-RAP MATERIAL TO BE PROVIDED BY SABINE RIVER AUTHORITY AND INSTALLED BY CONTRACTOR.



| LEGEND | |
|--------|------------------------------|
| | CONTROL JOINT |
| | EXPANSION JOINT |
| | LONGITUDINAL BUTT JOINT |
| | 4" STAMPED CONCRETE SIDEWALK |
| | 4" CONCRETE SIDEWALK |
| | 6" CONCRETE |
| | SAND |
| | 6" GRAVEL |
| | ROCK RIP-RAP |



REVISIONS:



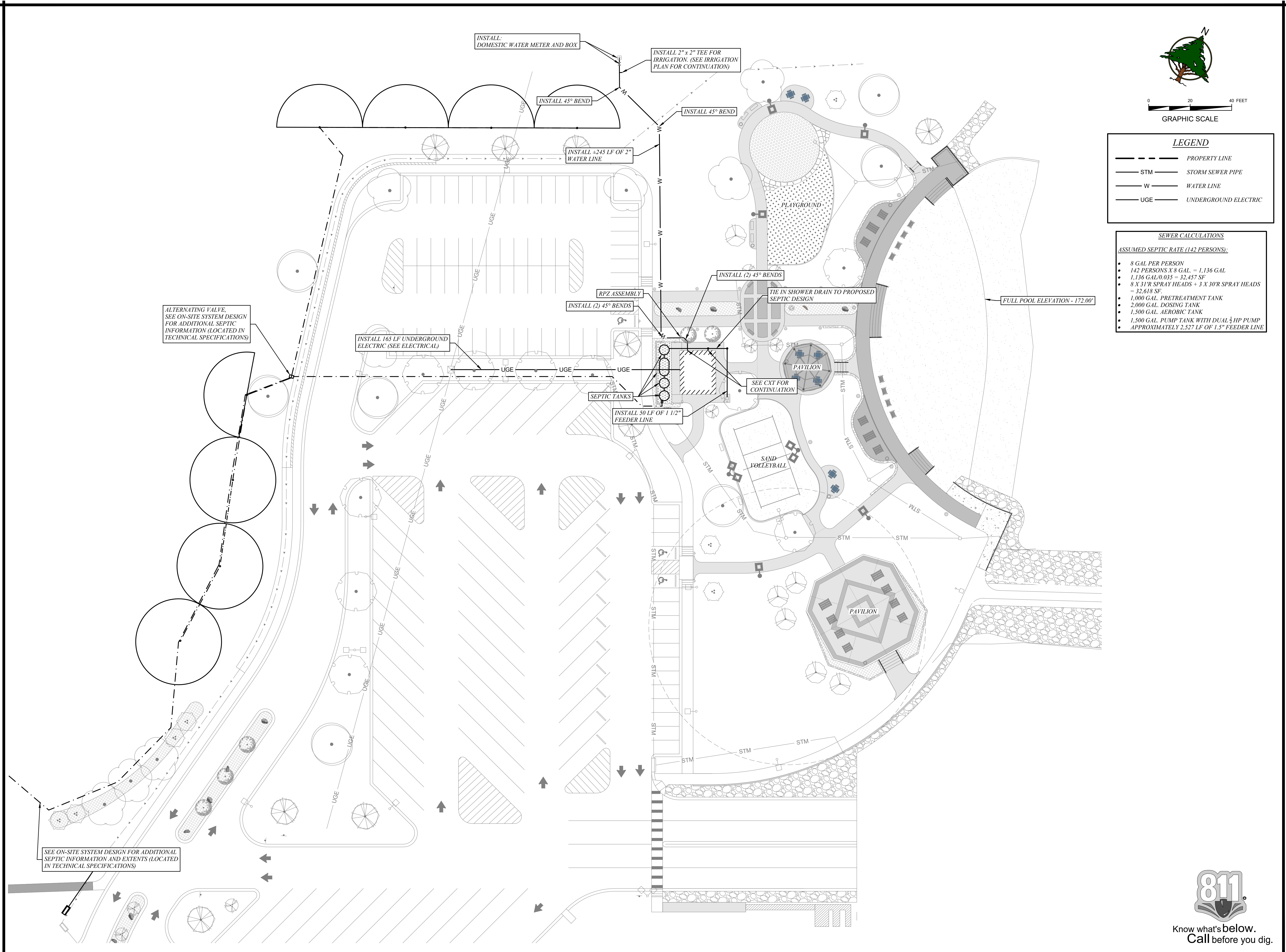
MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Suite 100, Texas 75701
PDS-591-6006
TIDAE - DR4525
TYPE No. 14571

PAVING PLAN
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C6

L:\River Authorities\21-021 Pendleton Property Park (Sabine River Authority)\CAD - PHASE 2\03 - Production\UTILITY PLAN.dwg



REVISIONS:

MHS

PLANNING & DESIGN, LLC

212 West Ninth Street, Suite 100, Texas 75701

PH: 597-6006 FAX: 597-6006 TDAE - DR4525

UTILITY PLAN

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR

CHECKED: WHS

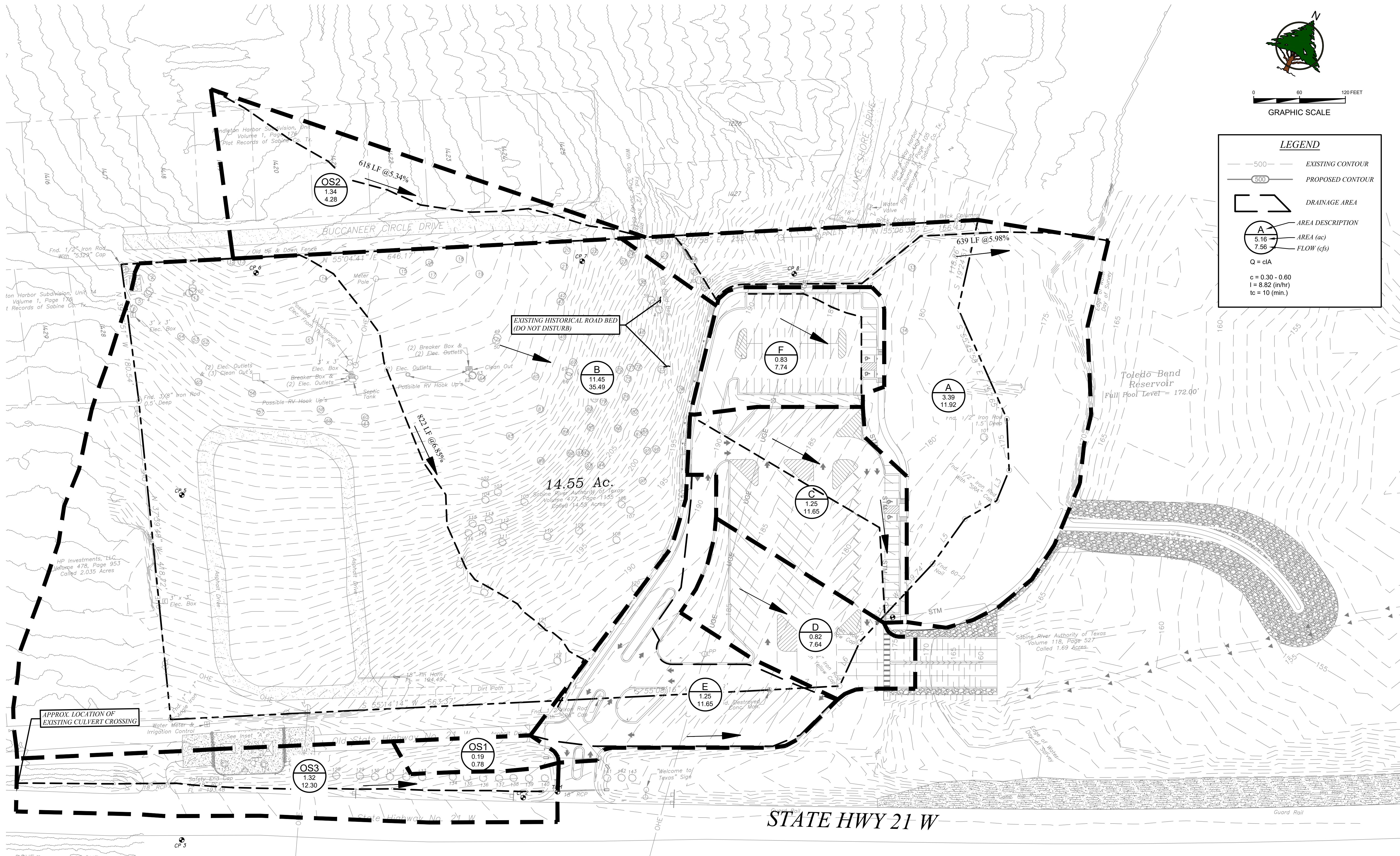
DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

C8

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\EXISTING DRAINAGE AREA MAP.dwg



| Hydraflow Calculated Coefficients | | | |
|--|-------|--------|-----|
| Rainfall Intensity-Duration-Frequency Coefficients | | | |
| Frequency | e | b | d |
| 2-yr | 0.732 | 42.361 | 9 |
| 5-yr | 0.643 | 34.21 | 3.2 |
| 10-yr | 0.699 | 52.305 | 7.7 |
| 25-yr | 0.678 | 56.504 | 7 |
| 50-yr | 0.671 | 61.633 | 6.6 |
| 100-yr | 0.658 | 64.987 | 6.3 |
| $I = b / (Tc + d)^e$ | | | |

| DRAINAGE AREA CALCULATIONS | | | | | | | | | | |
|----------------------------|-------------|-----------------|----------|----------|-------------|---------------|---------|---------|---------|-------|
| DRAINAGE | TOTAL | | | WEIGHTED | | TIME OF | | | | |
| AREA | UNDEVELOPED | PLAYGROUND/RES. | PAVEMENT | AREA | RUNOFF | CONCENTRATION | I(10) | I(25) | I(100) | |
| NO. | C = 0.35 | C = 0.4 | C = 0.90 | (AC.) | COEFFICIENT | (MIN) | (IN/HR) | (IN/HR) | (IN/HR) | |
| A | | | | 3.39 | 0.40 | 14.6 | 5.97 | 7.04 | 8.79 | 9.54 |
| B | | 11.45 | | 11.45 | 0.40 | 19.03 | 5.26 | 6.20 | 7.75 | 24.10 |
| C | | | 1.25 | 1.25 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 7.90 |
| D | | | 0.82 | 0.82 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 5.18 |
| E | | | 1.25 | 1.25 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 7.90 |
| F | | | 0.83 | 0.83 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 5.24 |
| OS1 | 0.19 | | | 0.19 | 0.40 | 10 | 7.00 | 8.25 | 10.32 | 0.53 |
| OS2 | | 1.34 | | 1.34 | 0.40 | 17.93 | 5.42 | 6.38 | 7.98 | 2.90 |
| OS3 | | | 1.32 | 1.32 | 0.90 | 10.08 | 7.02 | 8.28 | 10.36 | 8.34 |

NOTES:
1. OFFSITE DRAINAGE AREAS SHOWN
BASED ON USGS 2 FT CONTOUR DATA.
2. TIME OF CONCENTRATION CALCULATED
USING FAA METHOD ON HYDRAFLOW.

FAA TIME OF CONCENTRATION CALCULATION
AREA A
 $T_c = 1.8 \times (1.1 - c) \times L^{0.5} / ((100 \times S)^{1/3})$
 $T_c = 1.8 \times (1.1 - 0.4) \times (512^{0.5}) / (7.46^{1/3})$
 $T_c = 14.60 \text{ MIN}$



Know what's below.
Call before you dig.

REVISIONS:

STATE OF TEXAS

WILLIAM H. SPENCER

107759

10-20-22

MHS

PLANNING & DESIGN, ELC

212 West Ninth Street Tyler, Texas 75701

936-597-6000

TXBPE No. 14571

TDAE-DR4525

EXISTING DRAINAGE AREA MAP

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SPF

CHECKED: WHS

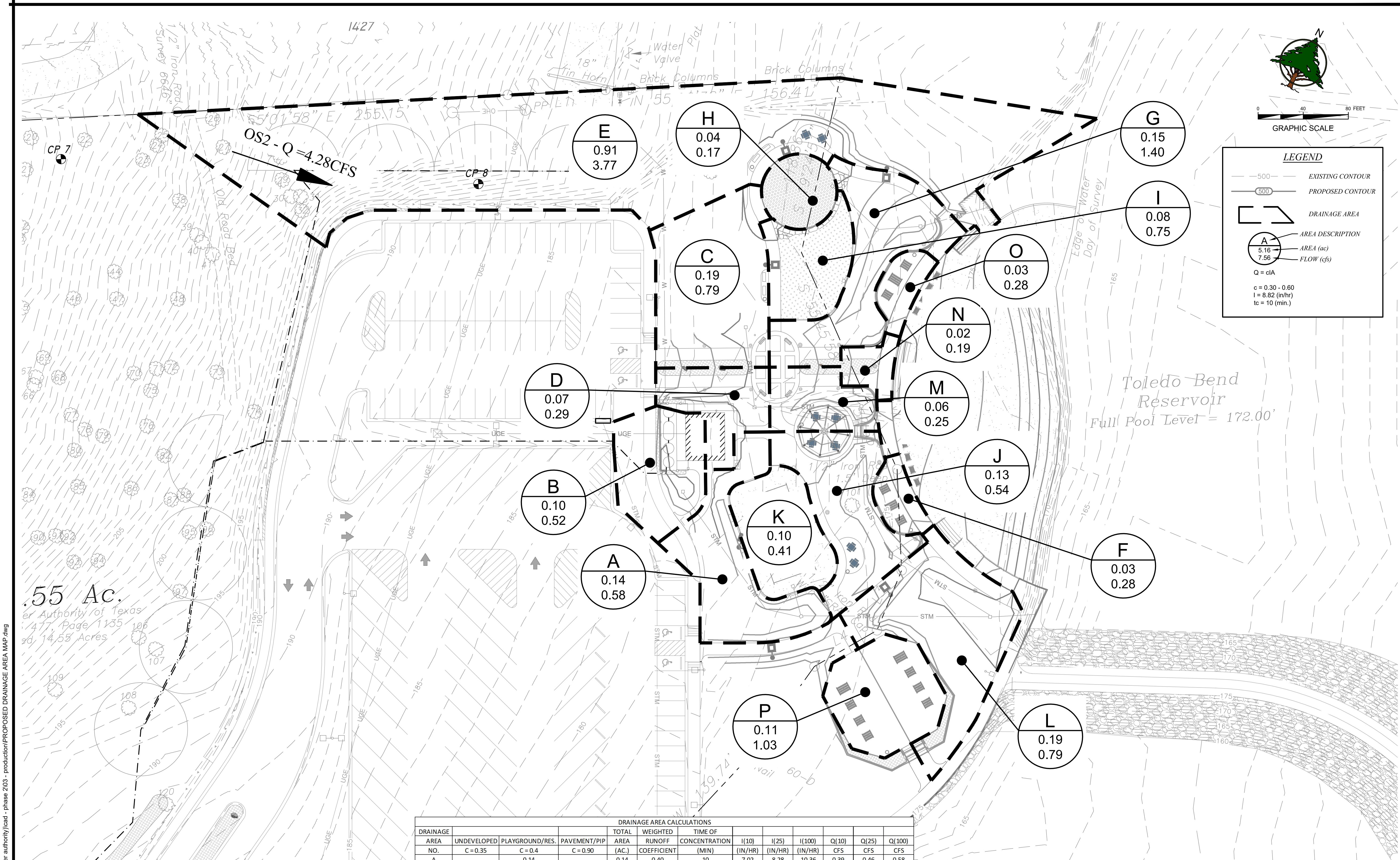
DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

C9

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\PROPOSED DRAINAGE AREA MAP.dwg



| Hydraflow Calculated Coefficients | | | |
|--|-------|--------|-----|
| Rainfall Intensity-Duration-Frequency Coefficients | | | |
| Frequency | e | b | d |
| 2-yr | 0.732 | 42.361 | 9 |
| 5-yr | 0.643 | 34.21 | 3.2 |
| 10-yr | 0.699 | 52.305 | 7.7 |
| 25-yr | 0.678 | 56.504 | 7 |
| 50-yr | 0.671 | 61.633 | 6.6 |
| 100-yr | 0.658 | 64.987 | 6.3 |
| $I = b / (Tc + d)^e$ | | | |

| DRAINAGE AREA CALCULATIONS | | | | | | | | | | | | |
|----------------------------|--------------------|-----------------------|---------------------|------------------|-----------------------------|-----------------------------|---------------|---------------|----------------|-----------|-----------|------------|
| DRAINAGE AREA NO. | UNDEVELOPED C=0.35 | PLAYGROUND/RES. C=0.4 | PAVEMENT/PIP C=0.90 | TOTAL AREA (AC.) | WEIGHTED RUNOFF COEFFICIENT | TIME OF CONCENTRATION (MIN) | I(10) (IN/HR) | I(25) (IN/HR) | I(100) (IN/HR) | Q(10) CFS | Q(25) CFS | Q(100) CFS |
| A | | 0.14 | | 0.14 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.39 | 0.46 | 0.58 |
| B | | 0.08 | 0.02 | 0.10 | 0.50 | 10 | 7.02 | 8.28 | 10.36 | 0.35 | 0.41 | 0.52 |
| C | | 0.19 | | 0.19 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.53 | 0.63 | 0.79 |
| D | | 0.07 | | 0.07 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.20 | 0.23 | 0.29 |
| E | 0.91 | | | 0.91 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 2.56 | 3.01 | 3.77 |
| F | | | 0.03 | 0.03 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.19 | 0.22 | 0.28 |
| G | | | 0.15 | 0.15 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.95 | 1.12 | 1.40 |
| H | | 0.04 | | 0.04 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.11 | 0.13 | 0.17 |
| I | | | 0.08 | 0.08 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.51 | 0.60 | 0.75 |
| J | | 0.13 | | 0.13 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.37 | 0.43 | 0.54 |
| K | | 0.10 | | 0.10 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.28 | 0.33 | 0.41 |
| L | | 0.19 | | 0.19 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.53 | 0.63 | 0.79 |
| M | | 0.06 | | 0.06 | 0.40 | 10 | 7.02 | 8.28 | 10.36 | 0.17 | 0.20 | 0.25 |
| N | | | 0.02 | 0.02 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.13 | 0.15 | 0.19 |
| O | | | 0.03 | 0.03 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.19 | 0.22 | 0.28 |
| P | | | 0.11 | 0.11 | 0.90 | 10 | 7.02 | 8.28 | 10.36 | 0.69 | 0.82 | 1.03 |
| OS2 | | 1.34 | | 1.34 | 0.40 | 17.93 | 5.42 | 6.38 | 7.98 | 2.90 | 3.42 | 4.28 |

NOTES:
1. OFFSITE DRAINAGE AREAS SHOWN
BASED ON USGS 2 FT CONTOUR DATA.
2. TIME OF CONCENTRATION CALCULATED
USING FAA METHOD ON HYDRAFLOW.

FAA TIME OF CONCENTRATION CALCULATION
AREA A
 $T_c = 1.8 \times (1.1 - c) \times L^{0.5} / ((100 \times S)^{1/3})$
 $T_c = 1.8 \times (1.1 - 0.4) \times (512 \times 0.5)^{1/3} / (7.46^{1/3})$
 $T_c = 14.60 \text{ MIN}$

INTENSITY VALUES PULLED FROM THE USGS
DEPTH-DURATION FREQUENCY OF
PRECIPITATION FOR TEXAS.

POINT PRECIPITATION FREQUENCY ESTIMATES
FROM THE NOAA ATLAS 14 FOR HEMPHILL, TX.



Know what's below.
Call before you dig.

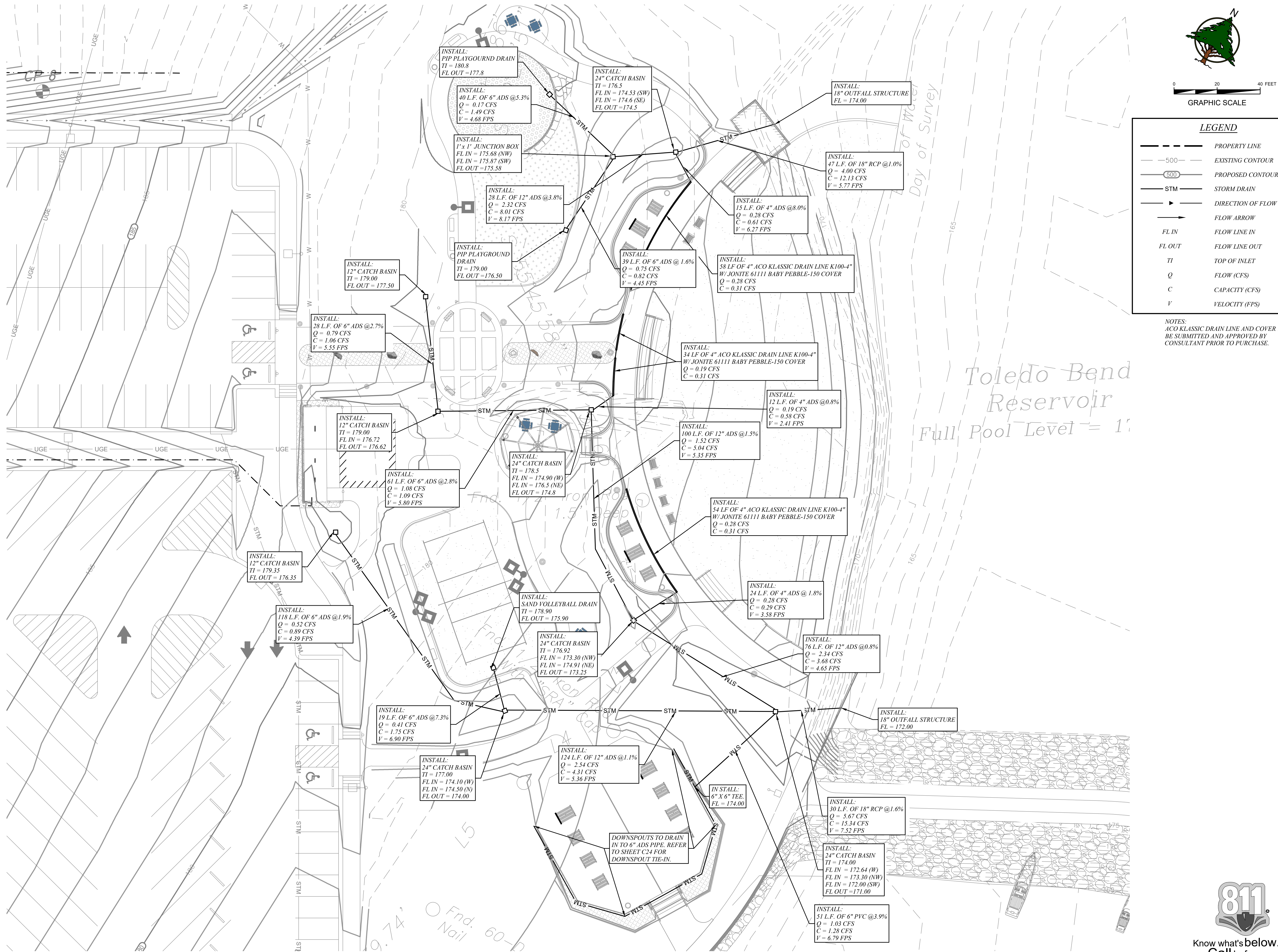
REVISIONS:

PROPOSED DRAINAGE AREA MAP
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SPF
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C10

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\DRAINAGE PLAN.dwg



Know what's below.
Call before you dig.

REVISIONS:

MHS

PLANNING & DESIGN, LLC

212 West Ninth Street, Suite 1500, Texas 75701

713-591-6006

TXSPE No. 14571

TDAE - DR4525

DRAINAGE PLAN

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SPF

CHECKED: WHS

DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

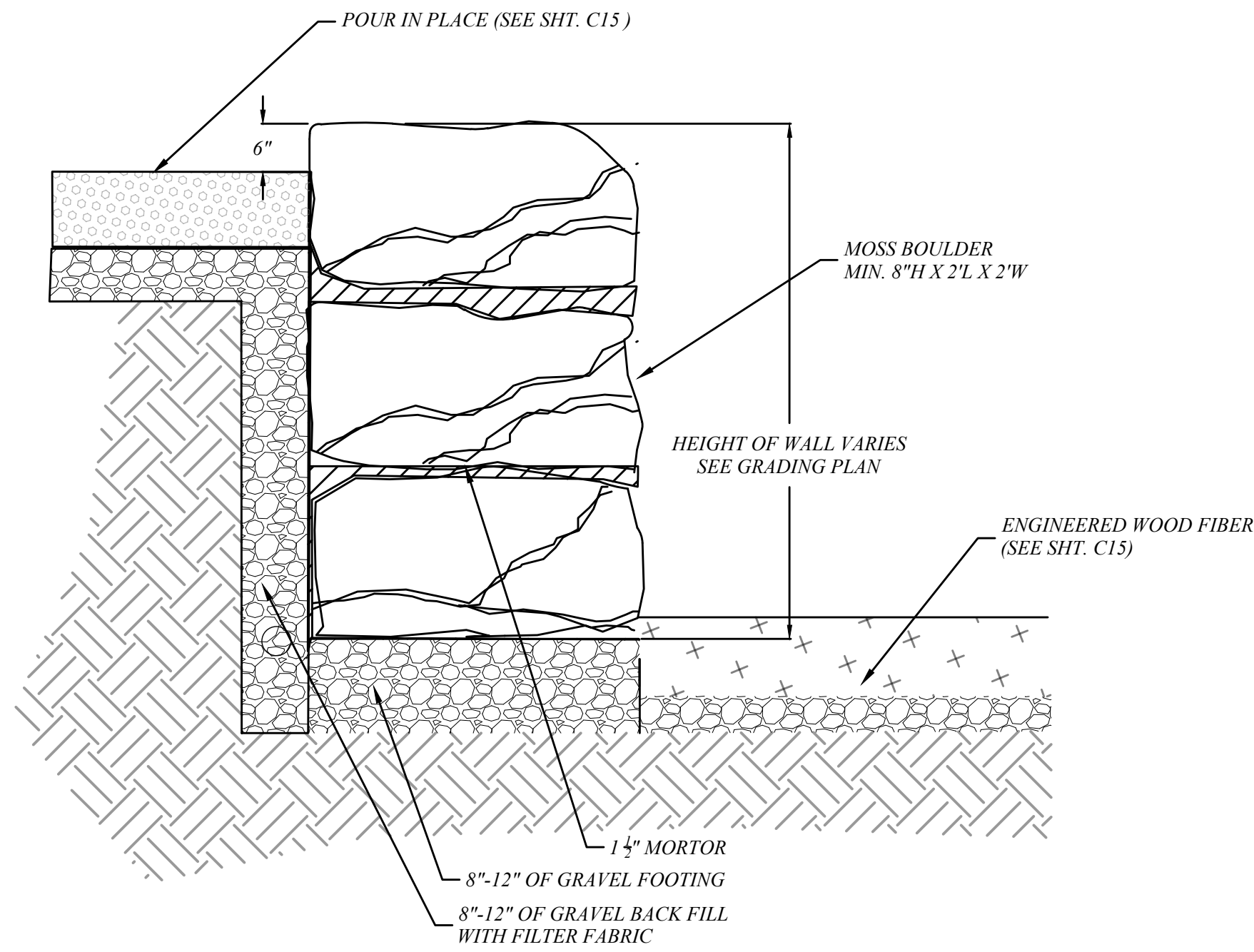
C11

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\PLAYGROUND PLAN.dwg

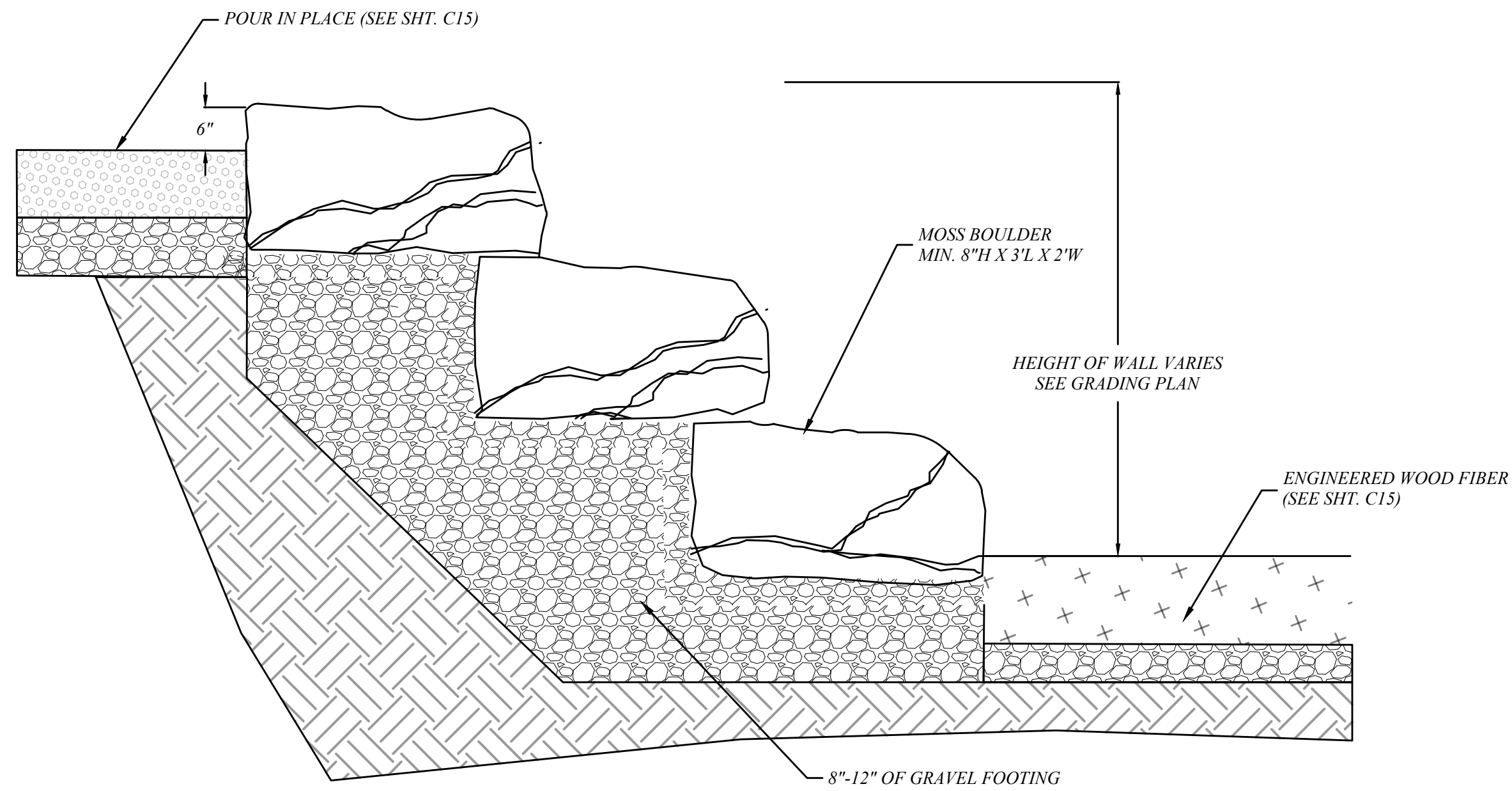
NOTE: ALL PLAY EQUIPMENT MAY BE SUBSTITUTED FOR AN APPROVED EQUAL.
EQUIPMENT COLORS TO BE SELECTED BY OWNER FROM STANDARDS.
SUPERIOR POUR IN PLACE RUBBER SAFETY SURFACING (1,960SQFT)
FROM PLAYWELL OR APPROVED EQUAL.

VENDOR CONTACT:

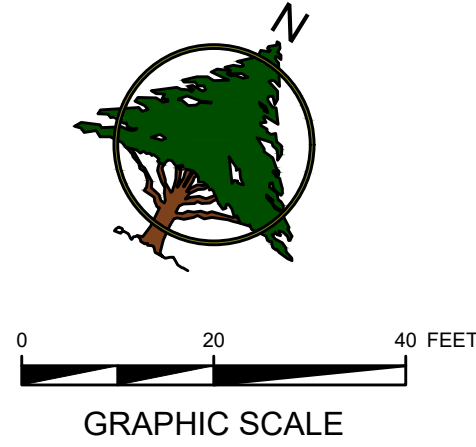
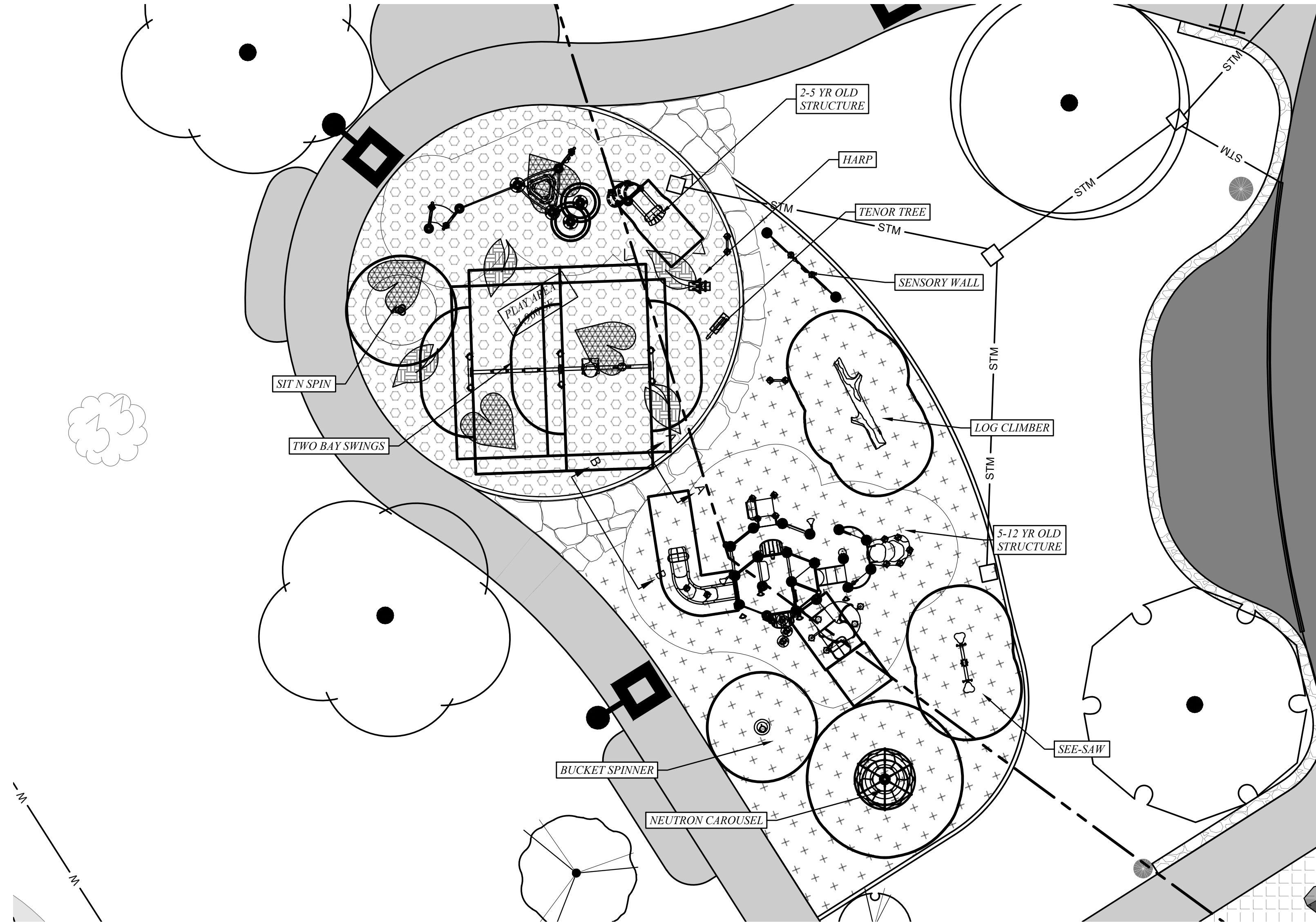
PLAYWELL GROUP:
KERRY WALSH
832-655-5400
KERRY@PLAYWELLGROUP.COM



BOULDER RETAINING WALL A-A-- MULTIPLE STONES
NTS



BOULDER RETAINING WALL B-B- MULTIPLE STONES
NTS



LEGEND

- FLEXGROUND POUR IN PLACE SURFACING (1,960 SF)
- ENGINEERED WOOD FIBER SURFACING (2,610 SF)
- PROPOSED CONCRETE PAVEMENT
- BOULDERS
- CONCRETE EDGING (130 LFT)

NOTES:

LOWER TIER OF PLAYGROUND TO HAVE ENGINEERED WOOD FIBER. POUR IN PLACE SURFACING TO BE ADD ALTERNATE. (SEE SHT. C15)

PLAYGROUND AGE SIGNS TO BE PROVIDED AND INSTALLED. LAYOUT AND LOCATION OF AGE SIGNS TO BE INCLUDED IN A SUBMITTAL FOR CLIENT'S AND ENGINEER'S APPROVAL.

CONTRACTOR TO VERIFY COLORS WITH DESIGN FIRM AND CLIENT PRIOR TO INSTALLATION AND PROVIDE SAMPLE PRIOR TO ORDERING AND FABRICATION.

ALL PLAYGROUND AND PLAY EQUIPMENT SHALL MEET TAS & ADA REQUIREMENTS.

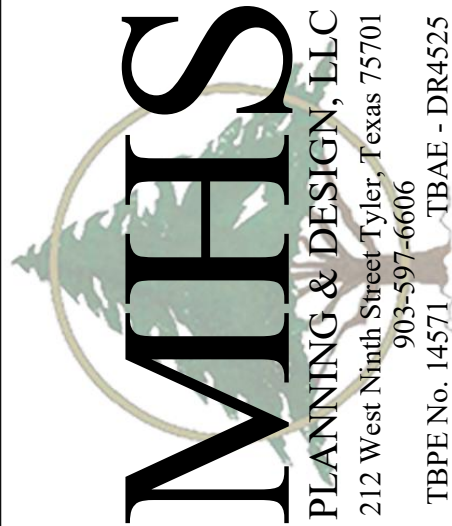
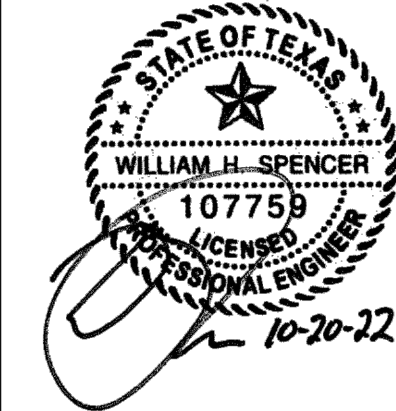
SAFETY SURFACING FOR PLAYGROUND MUST MEET APPROPRIATE FALL HEIGHT REQUIREMENTS (REFER O ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). CONTRACTOR TO VERIFY THAT DEPTHS SHOWN ARE COMPLYING WITH THE FALL HEIGHT REQUIREMENTS.

VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING.

CONTRACTOR TO PROVIDE POUR IN PLACE COLOR AND MATERIAL SAMPLES TO BE APPROVED BY THE CLIENT.

SEE CONSTRUCTION DETAILS FOR PLAYGROUND SURFACING DESIGN CROSS-SECTIONS.

REVISIONS:



PLAYGROUND PLAN PENDLETON PROPERTY PHASE 2 SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP

CHECKED: WHS

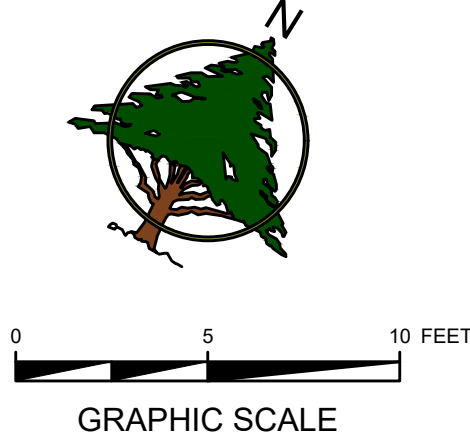
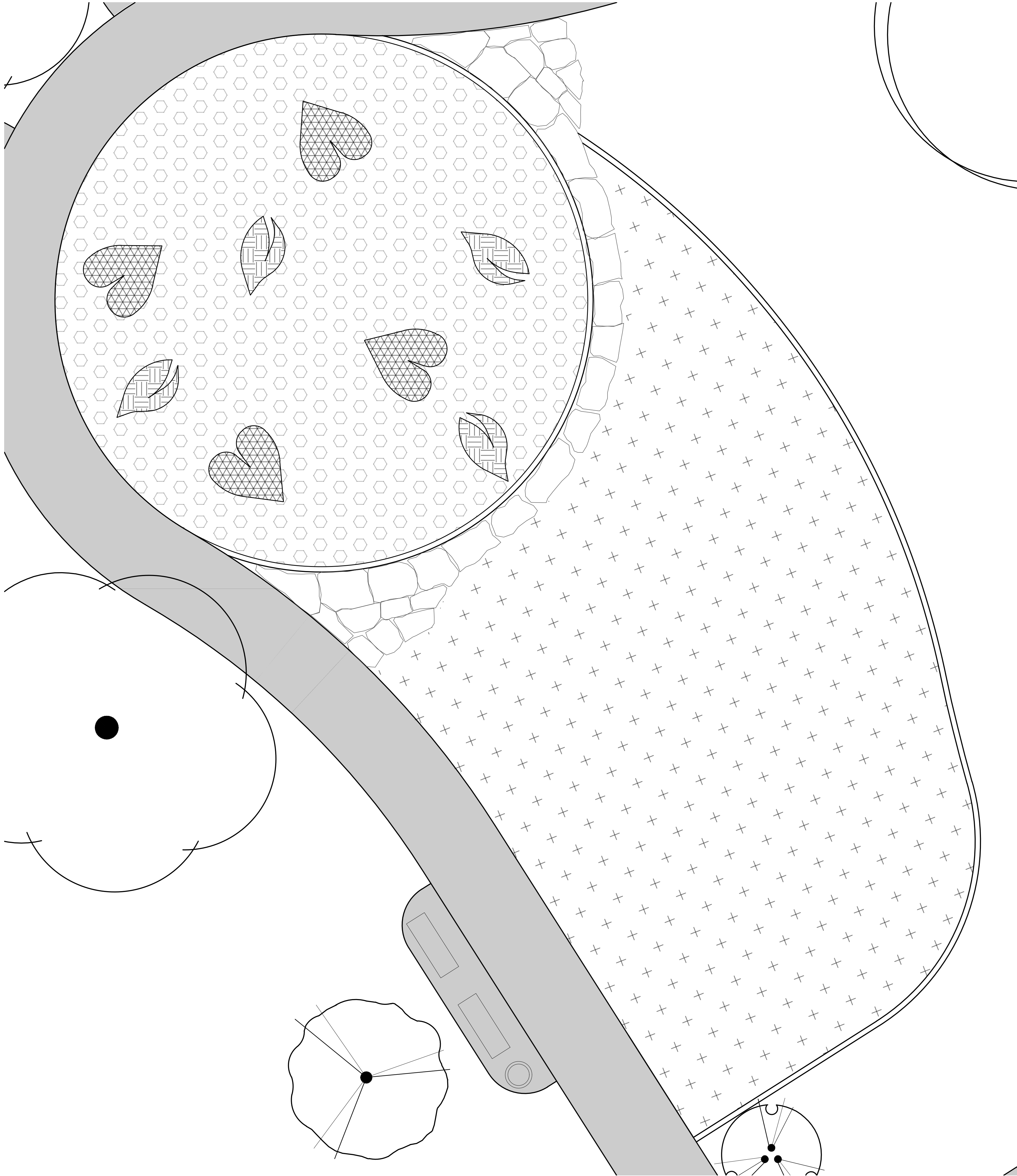
DATE: 10/27/2022

SCALE: AS SHOWN

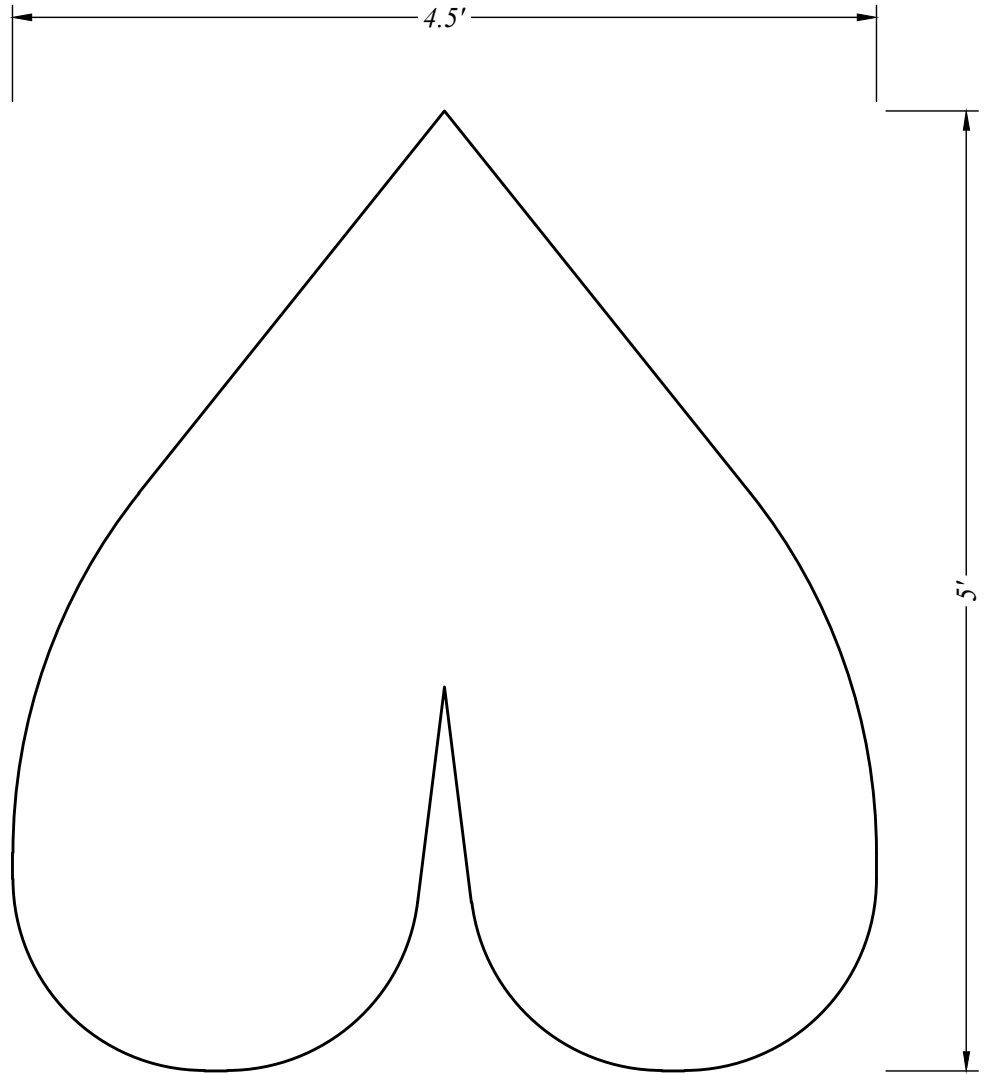
JOB NO.: 21-021

C12

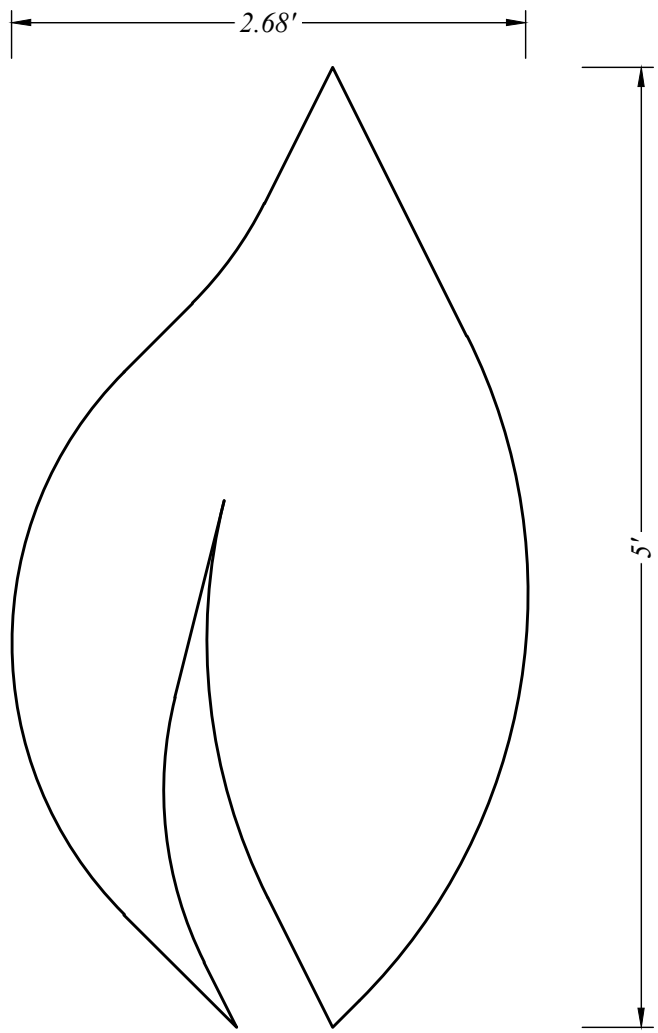
I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\PLAYGROUND PLAN.dwg



| LEGEND | |
|--------|---|
| | POUR IN PLACE SURFACING 50% BLACK, 50% BEIGE - 72 SF |
| | POUR IN PLACE SURFACING 50% BLACK, 50% STANDARD GREEN - 132 SF |
| | POUR IN PLACE SURFACING 50% BLACK, 50% BRIGHT GREEN - 1,760 SF |
| | ENGINEERED WOOD FIBER - 2,610 SF |
| | BOULDERS |
| | CONCRETE EDGING (120 LFT) |



LEAF DETAIL 1
1"=1'



LEAF DETAIL 2
1"=1'

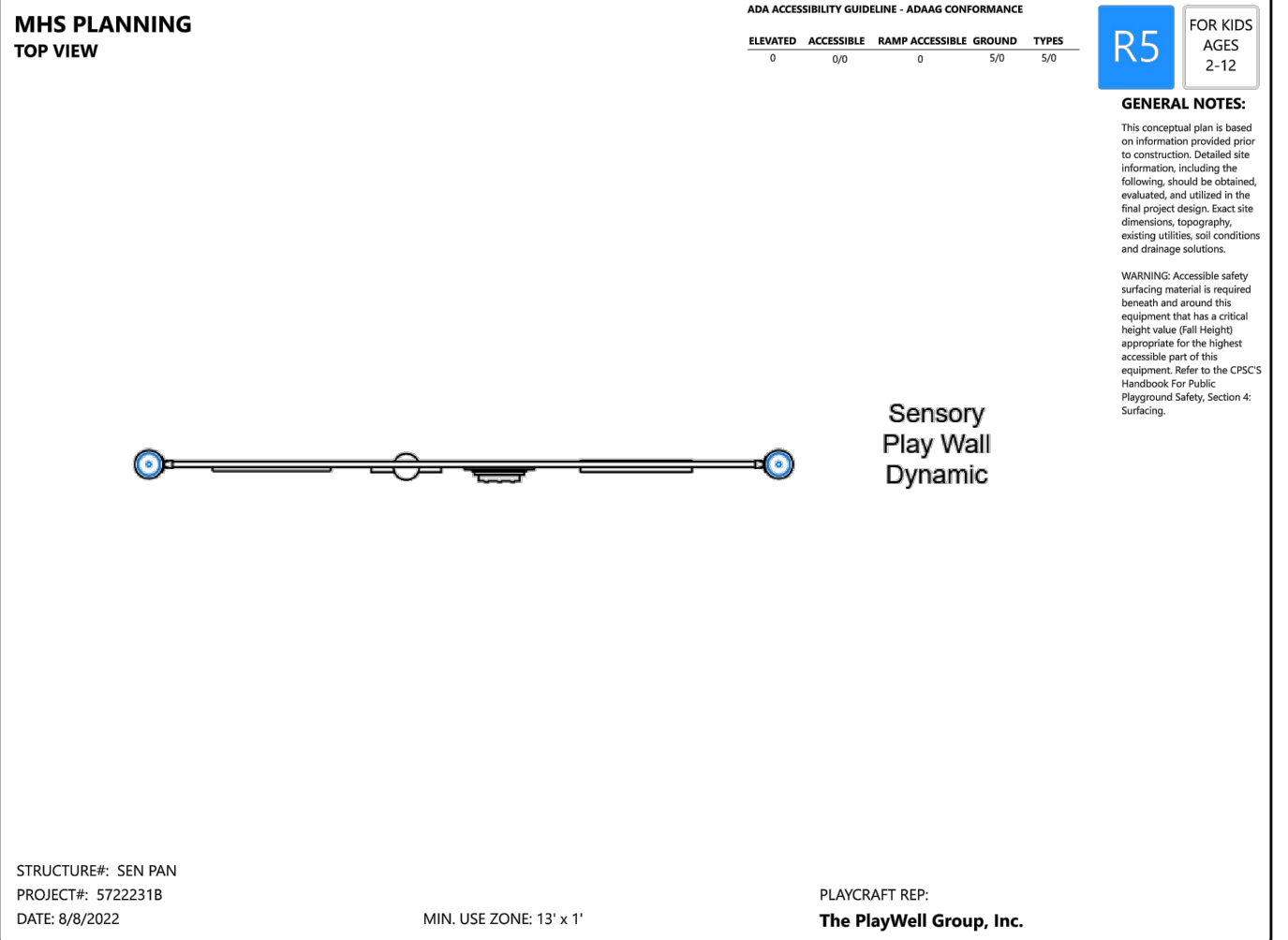
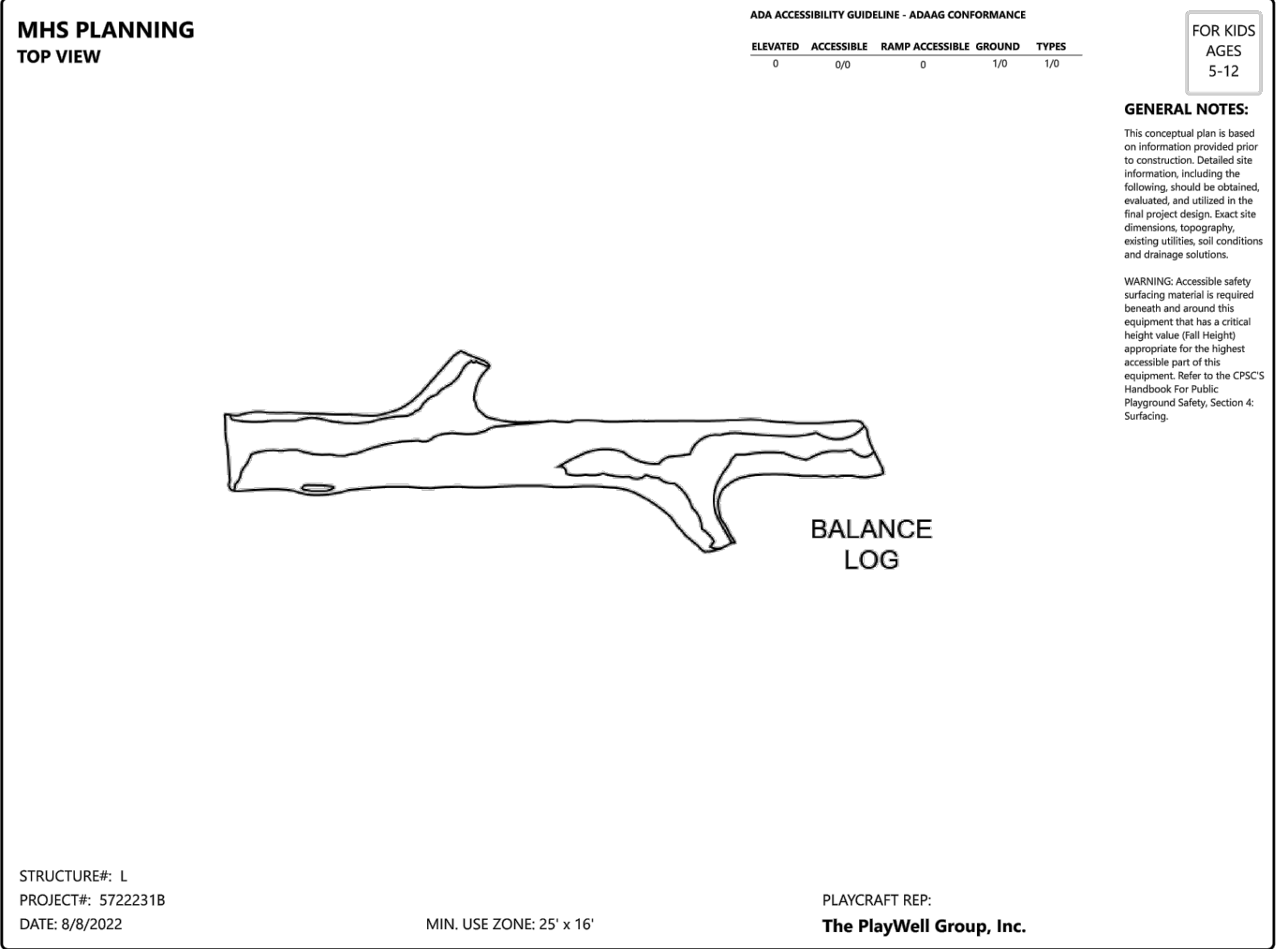
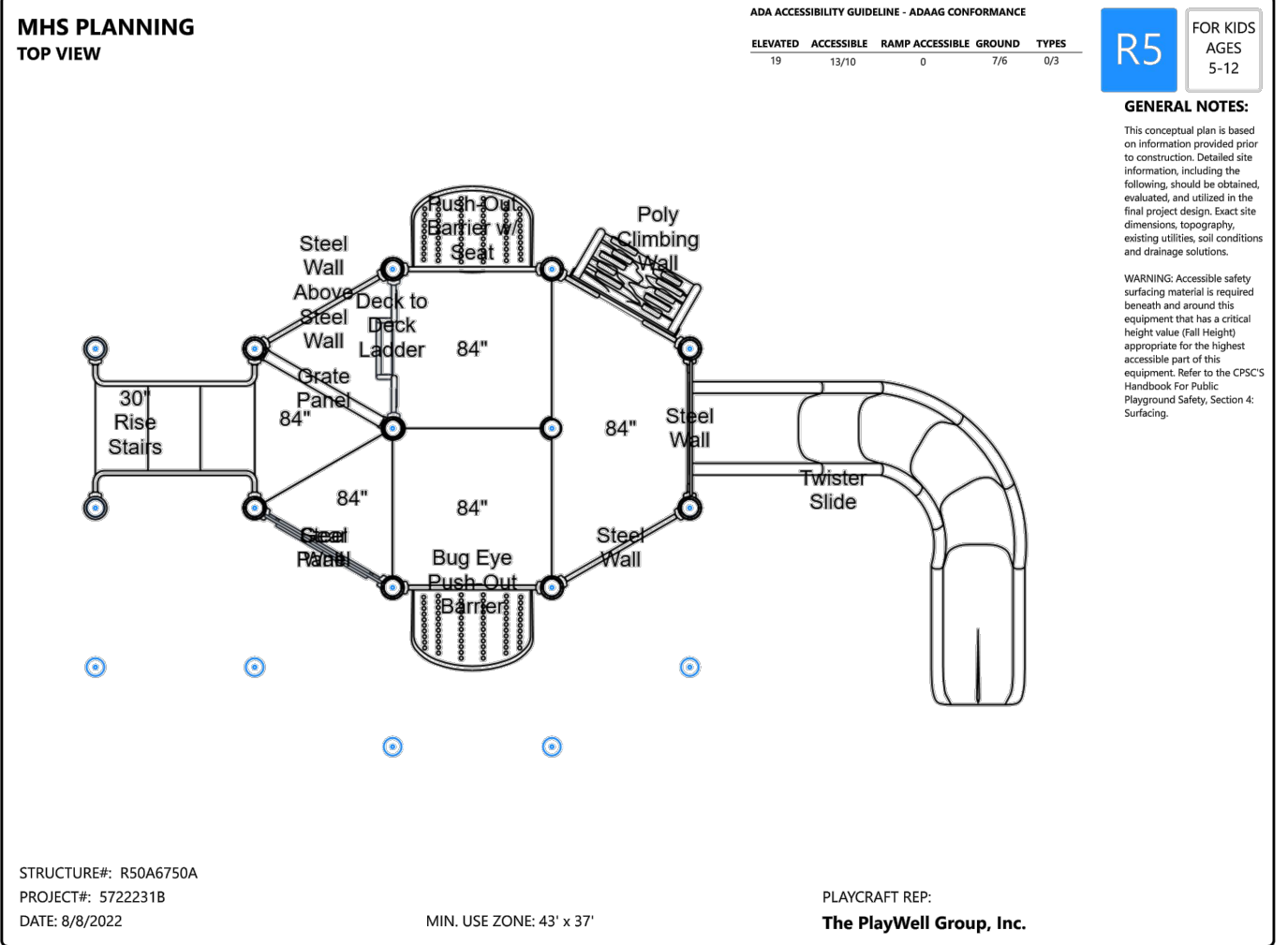
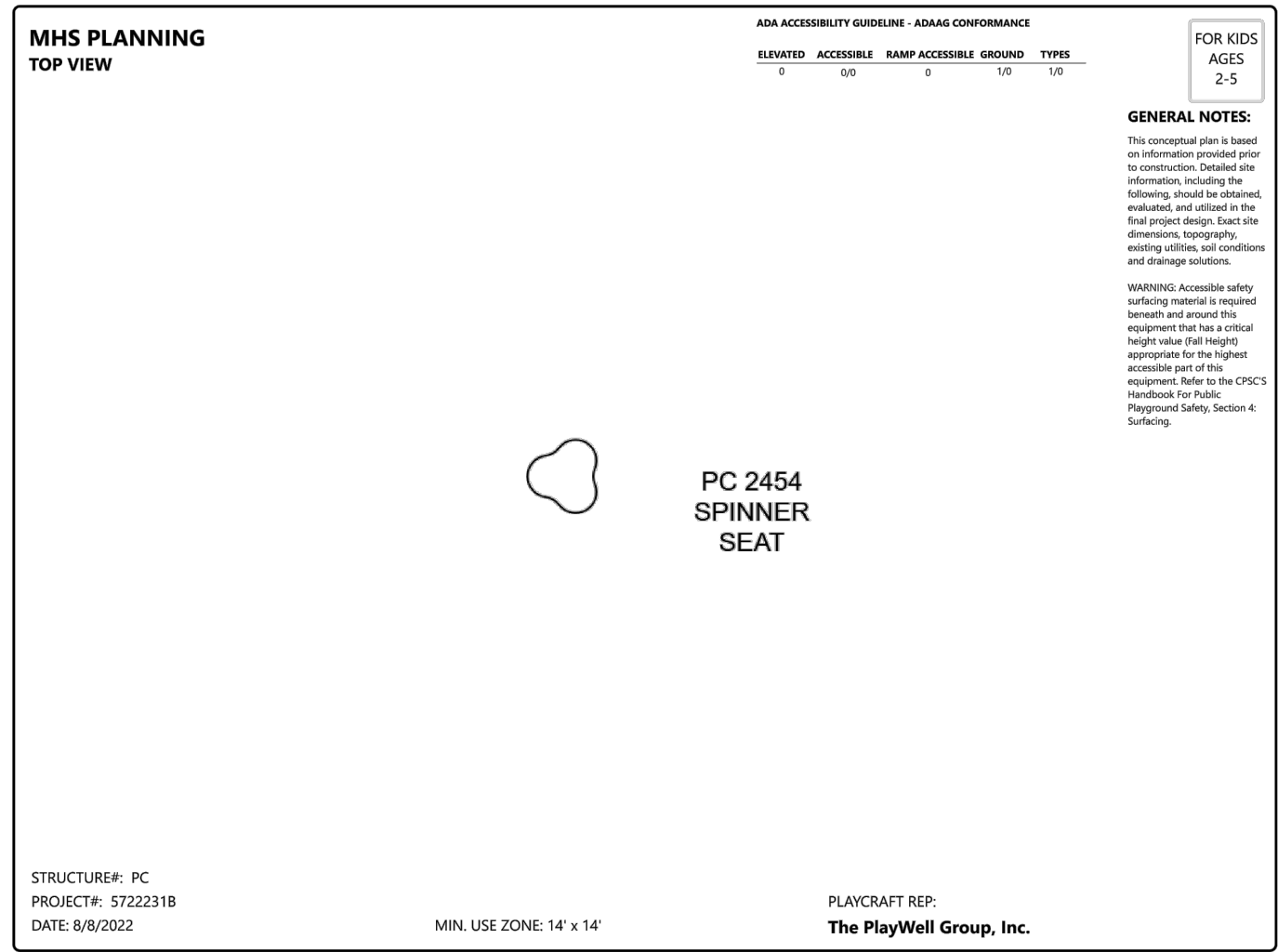
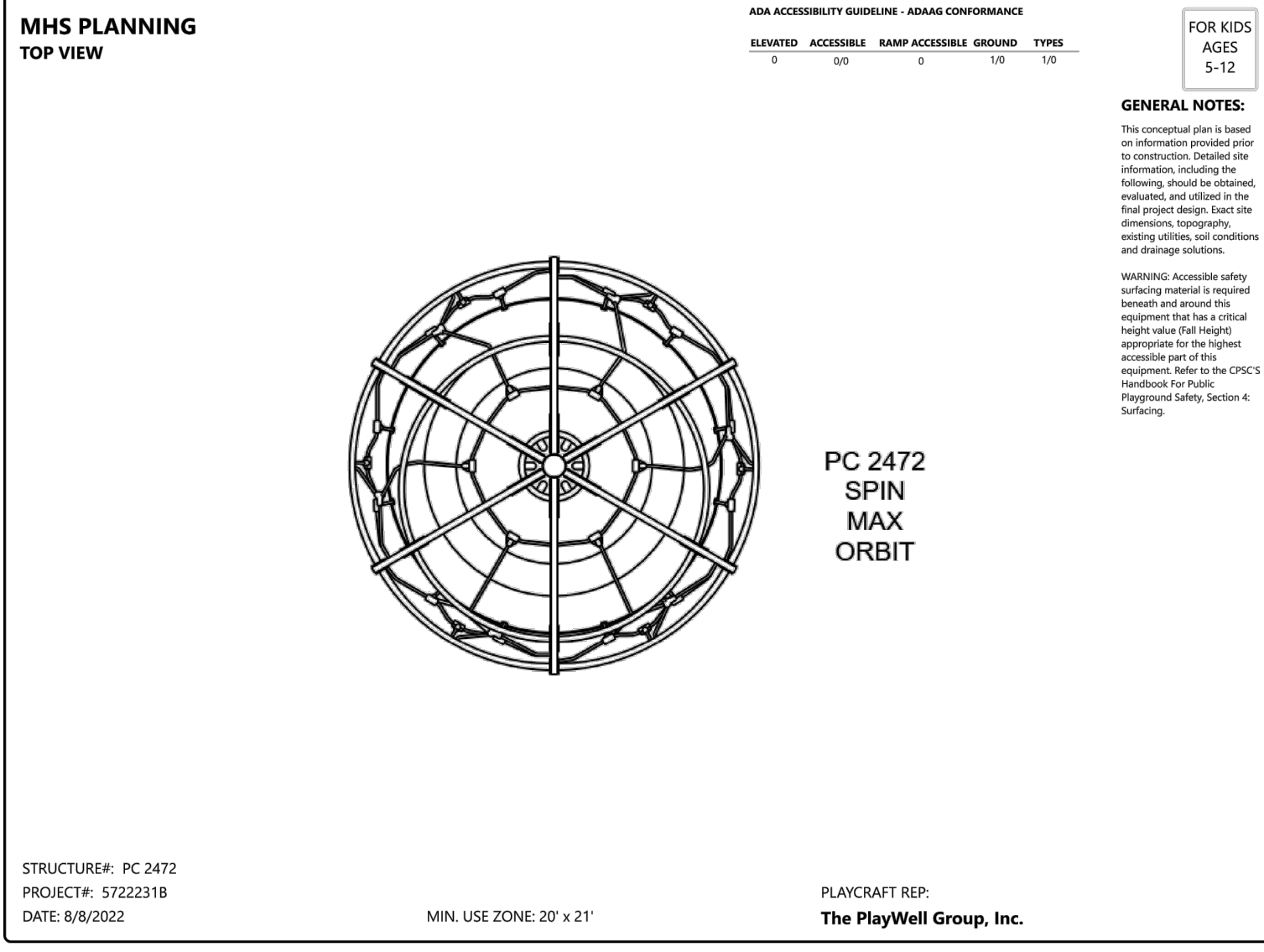
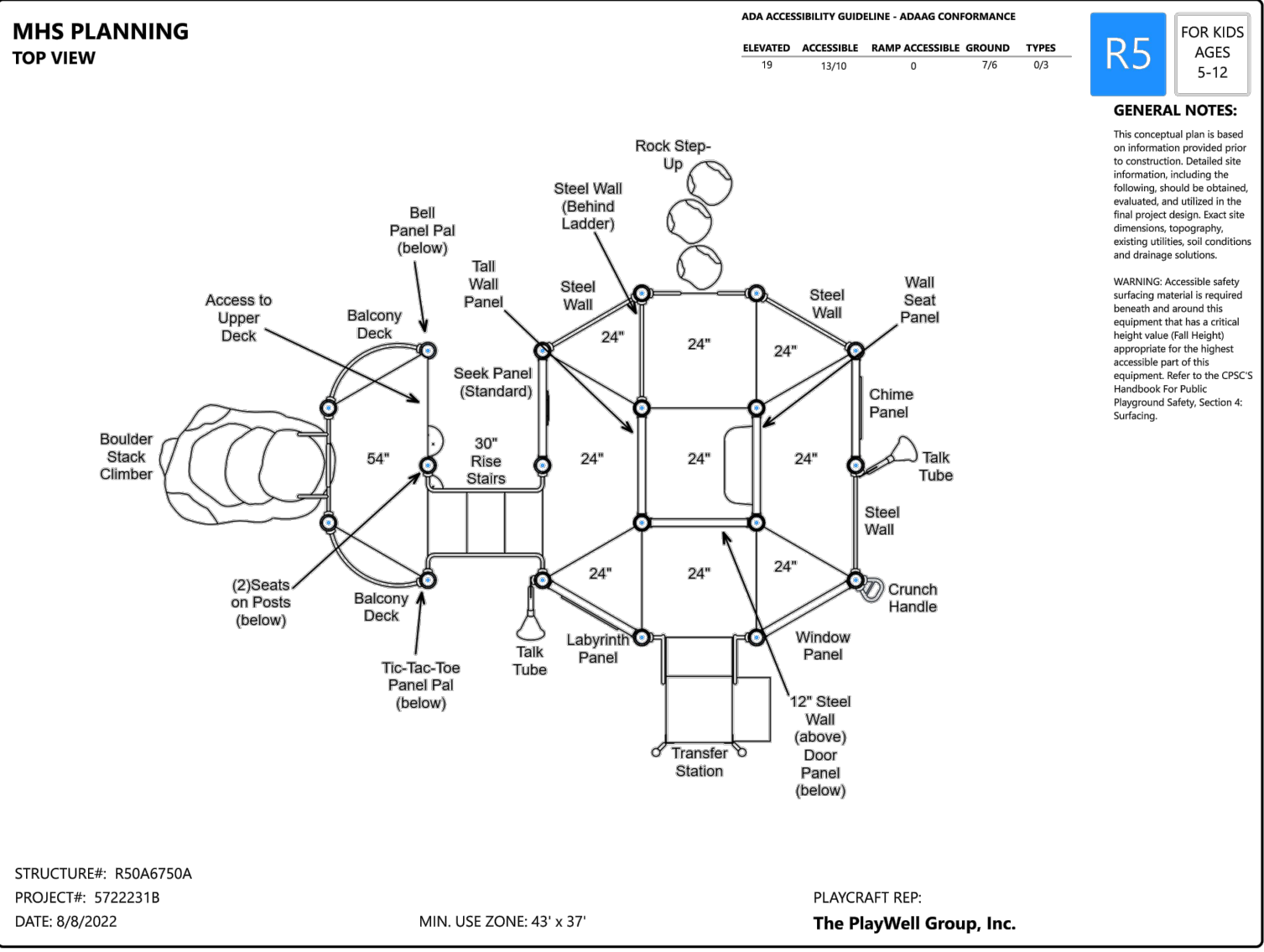
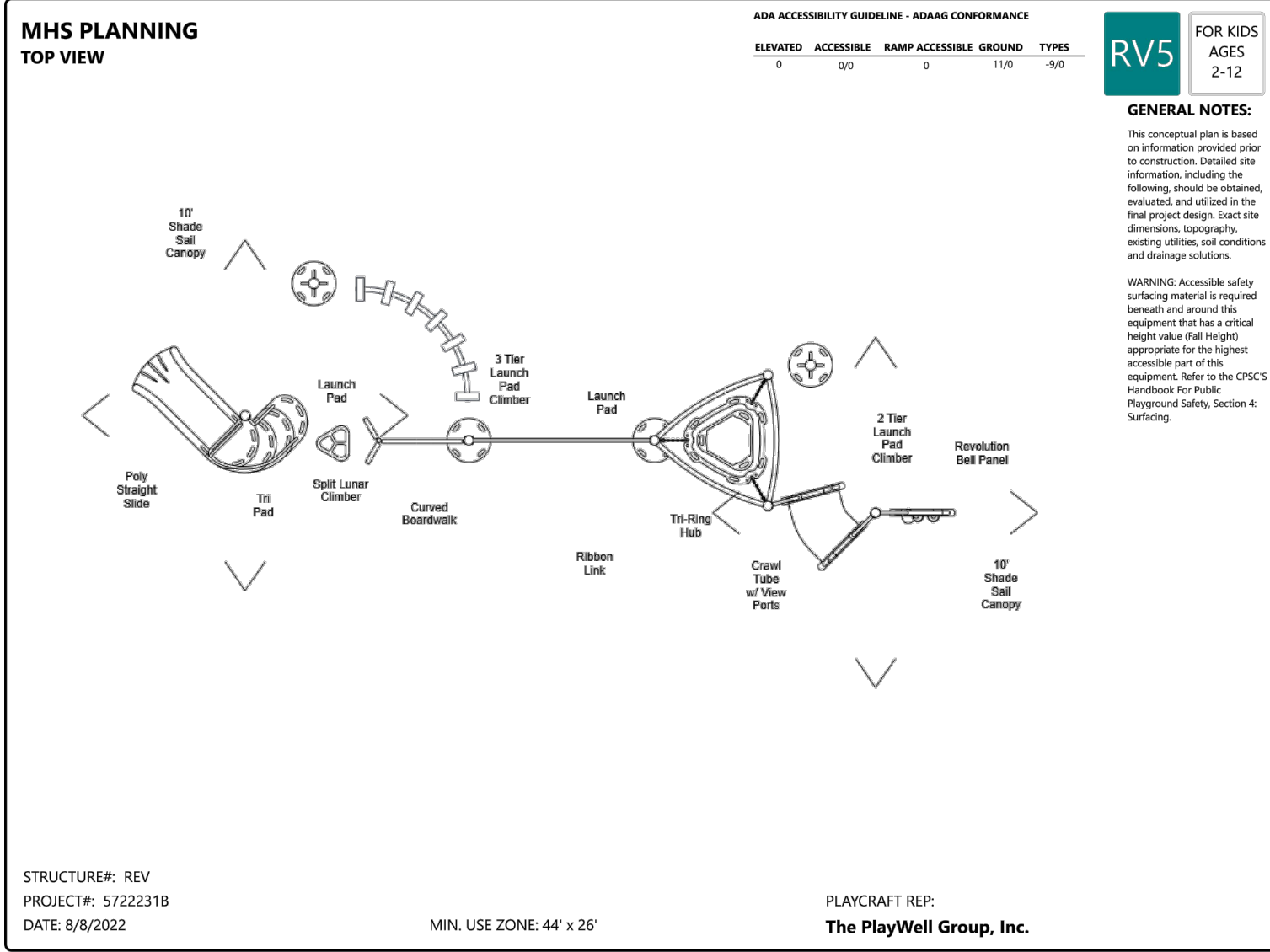
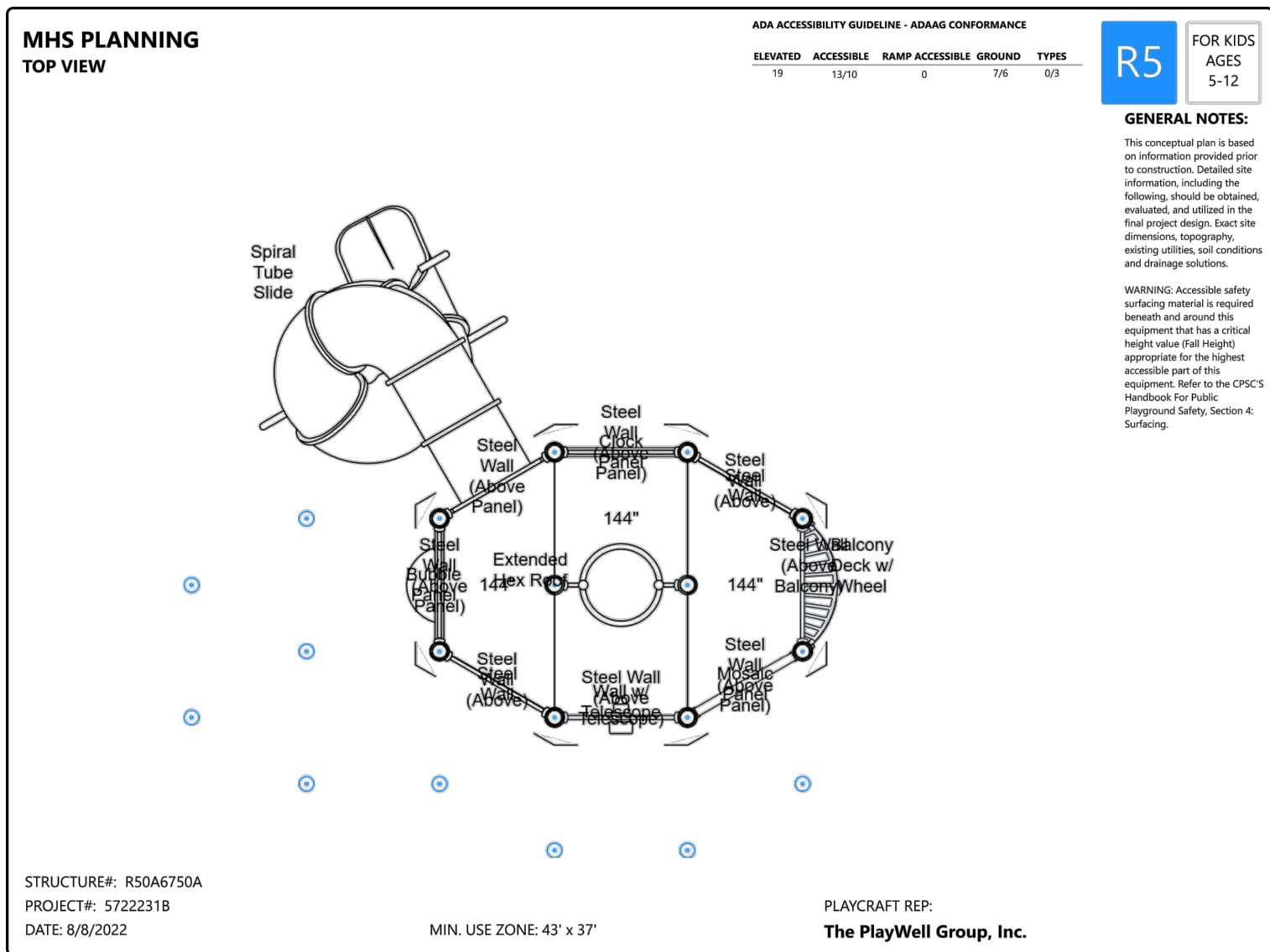
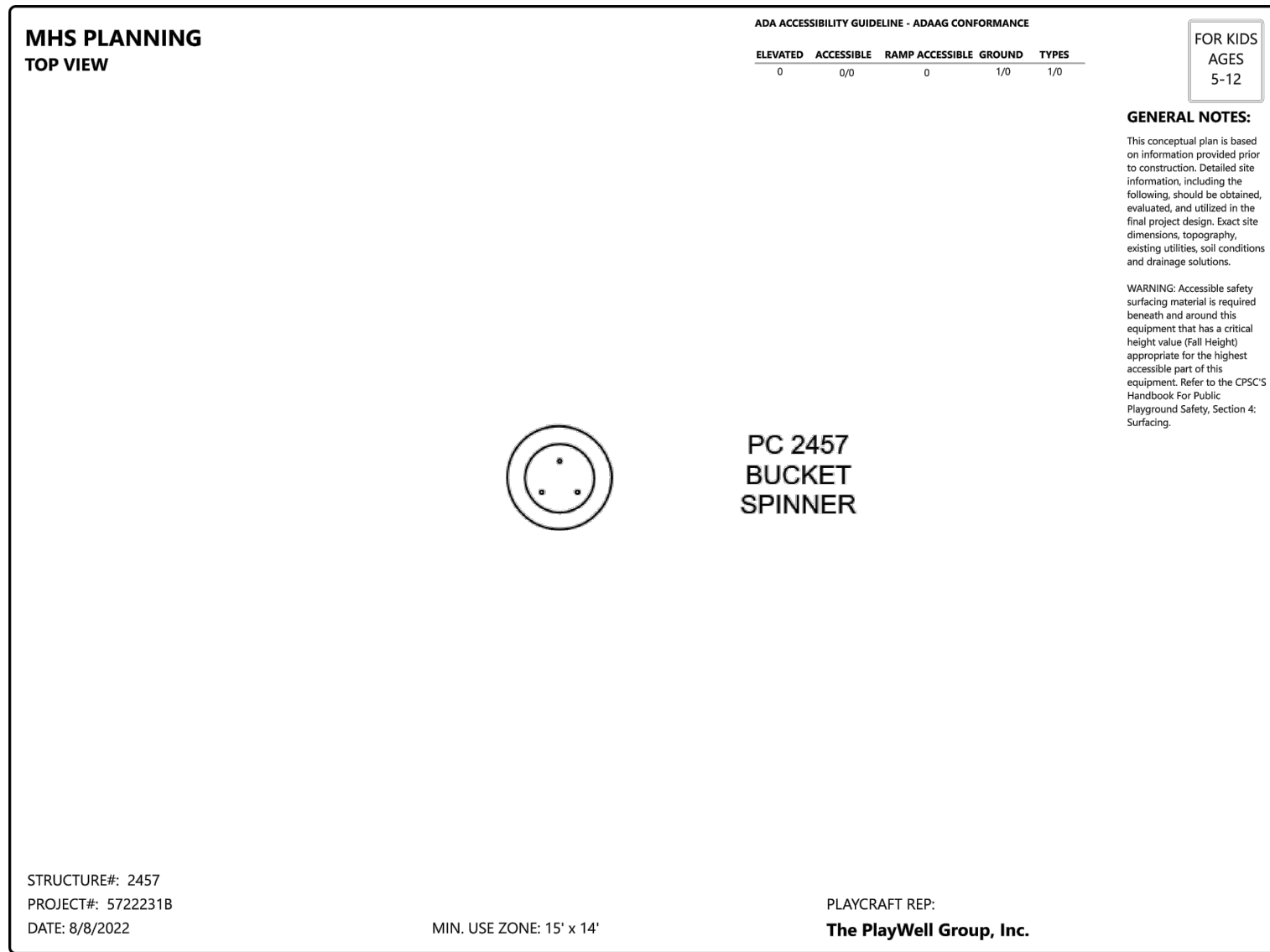
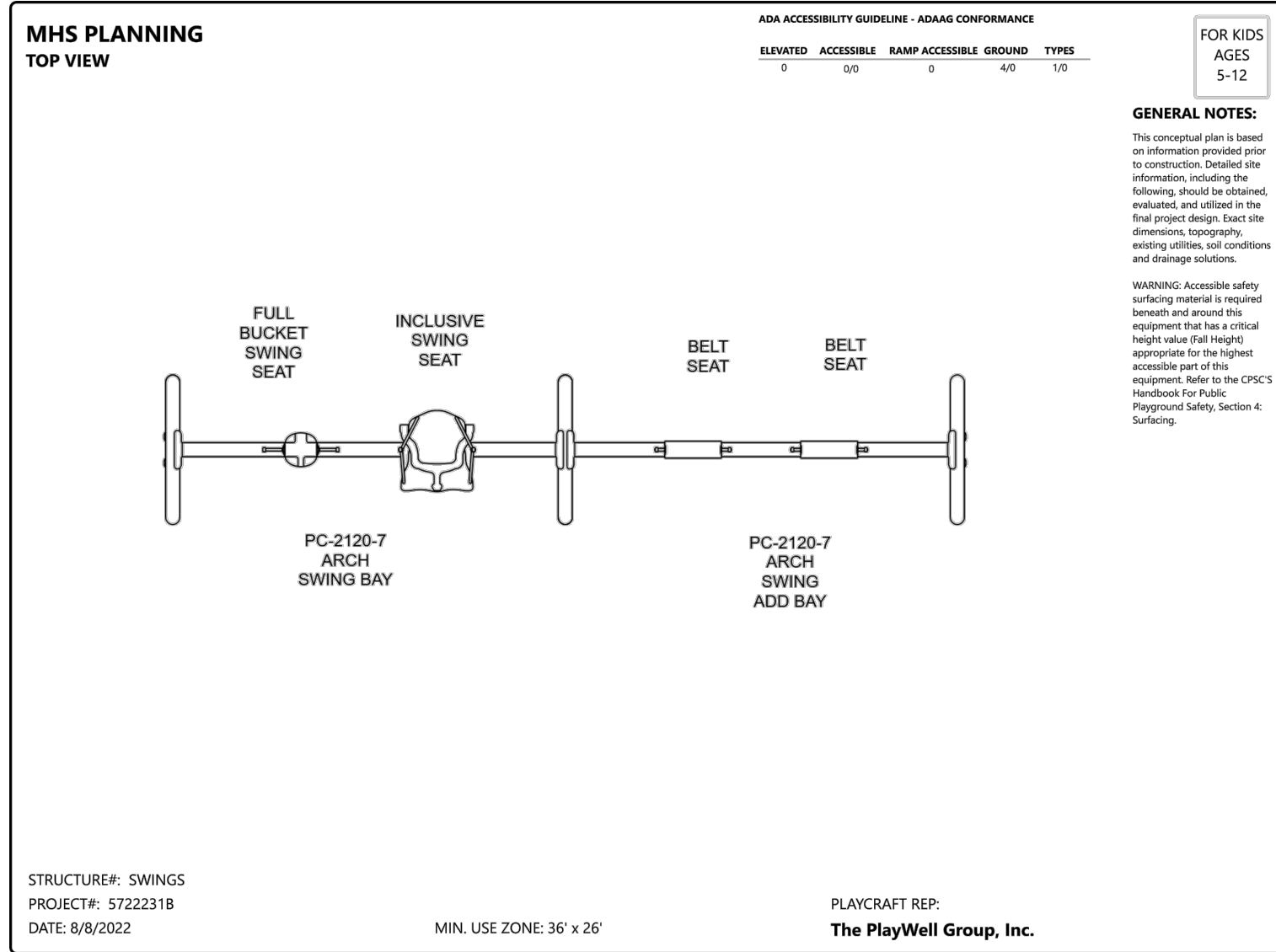
REVISIONS:



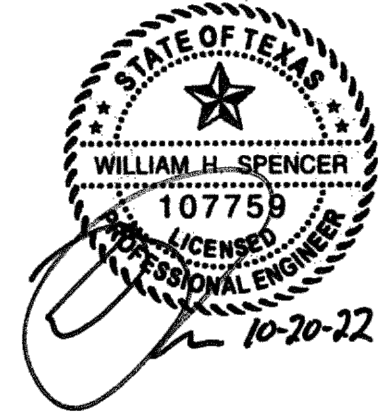
PLAYGROUND SURFACING PLAN
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | MEP |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C13



REVISIONS:



MMHS
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
903-597-6606
TBAE - DR4525
TBPE No. 14571

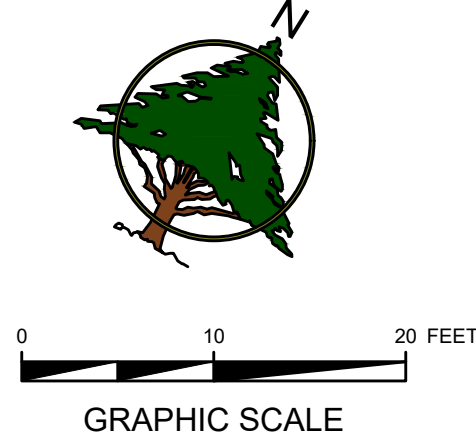
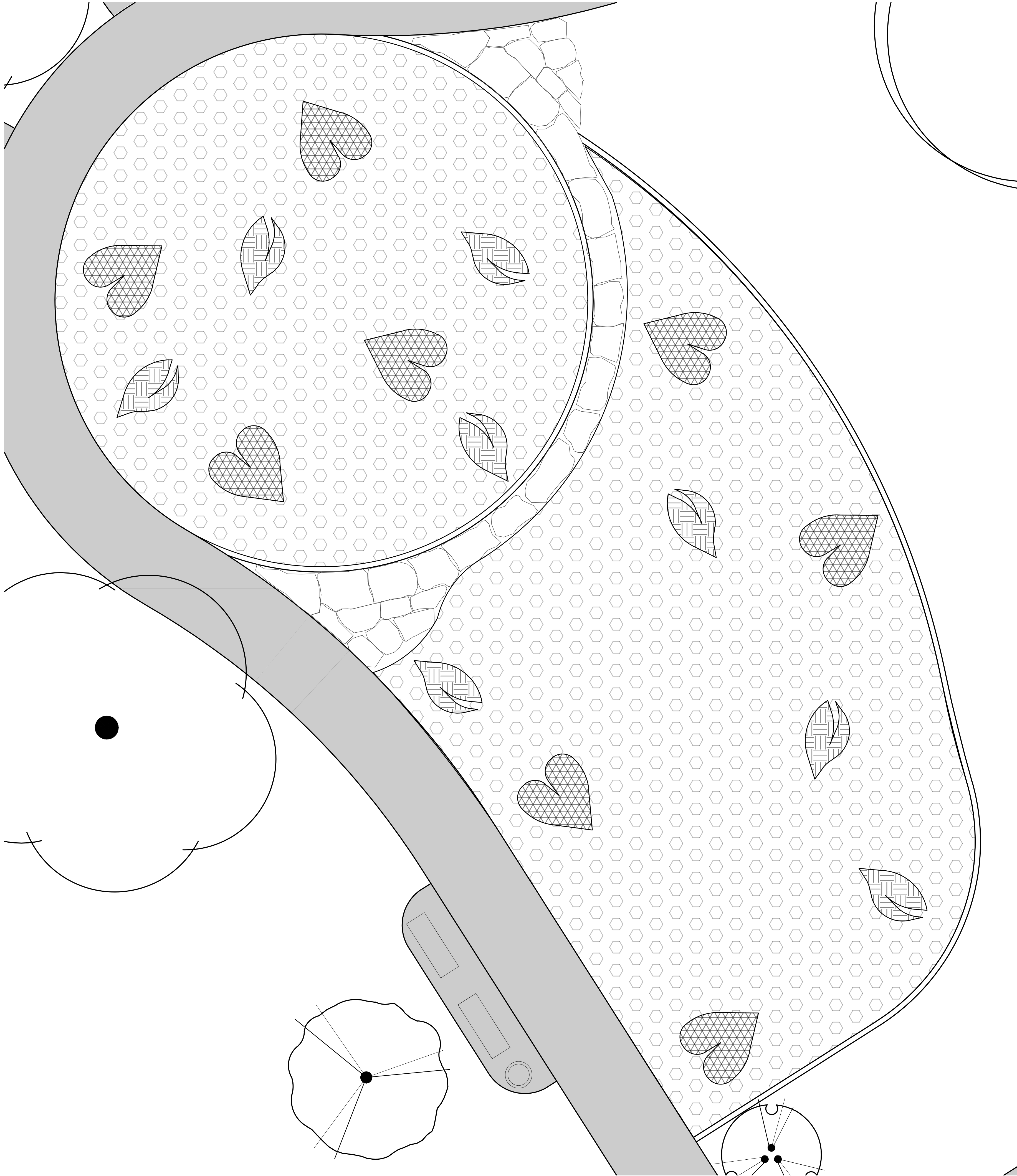
PLAYGROUND EQUIPMENT

PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | MEP |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C14

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\PLAYGROUND PLAN.dwg



LEGEND

- POUR IN PLACE SURFACING
50% BLACK, 50% BEIGE - 144 SF
- POUR IN PLACE SURFACING
50% BLACK, 50% STANDARD GREEN - 264 SF
- POUR IN PLACE SURFACING
50% BLACK, 50% BRIGHT GREEN - 4,166 SF
- BOULDERS
- CONCRETE EDGING
(120 LFT)

REVISIONS:

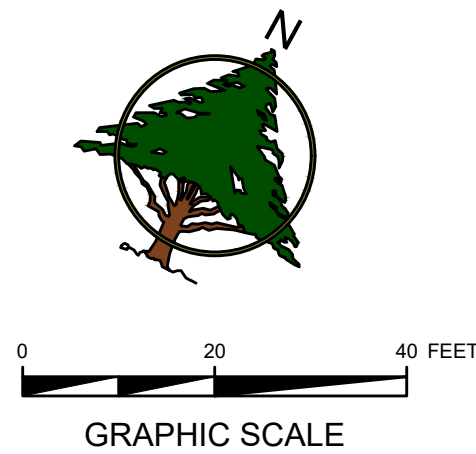
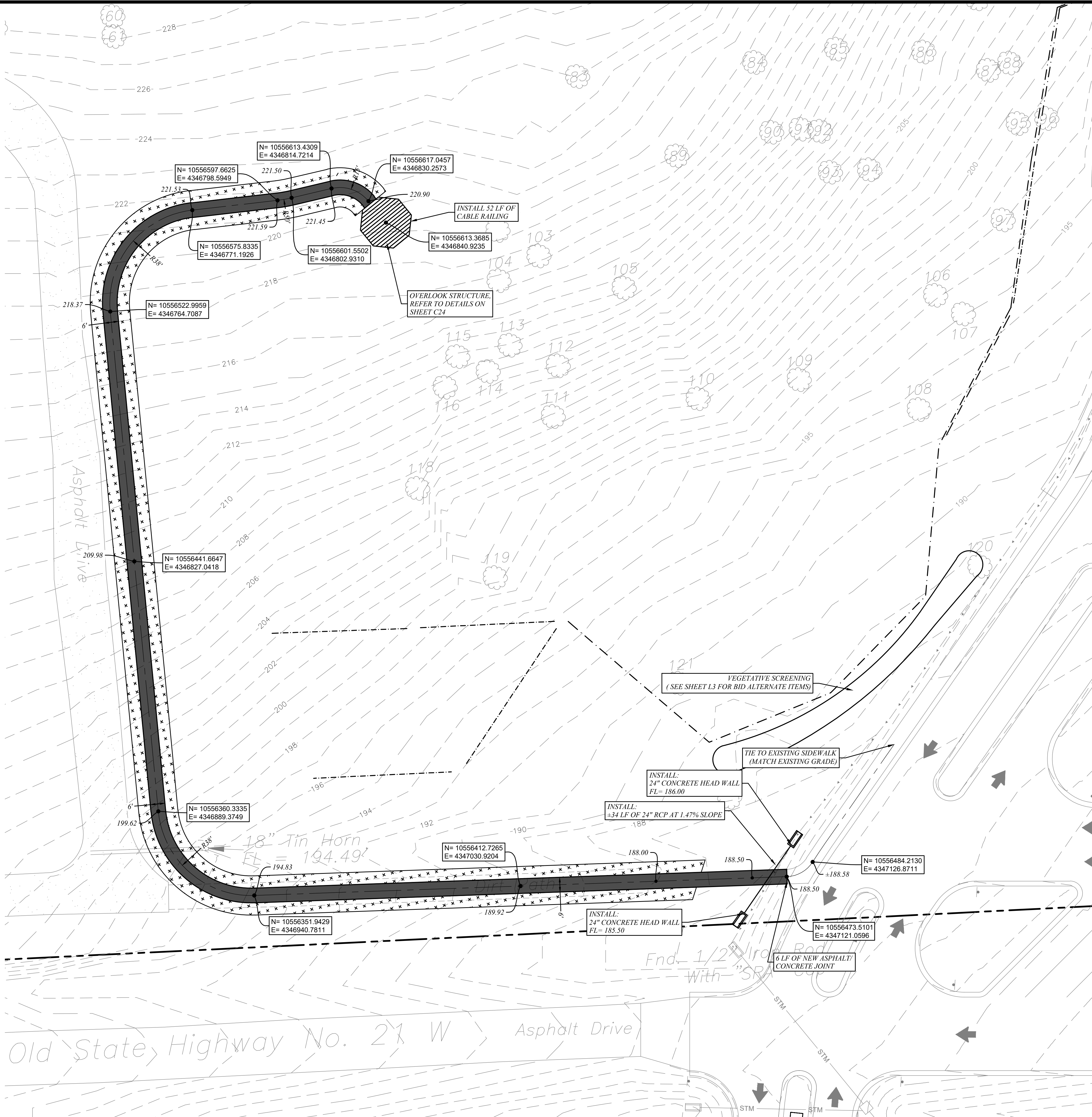


ALTERNATE PLAYGROUND
SURFACING PLAN
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | MEP |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C15

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\ALTERNATE BID.dwg



LEGEND

ASPHALT SIDEWALK (±3,687 SF)

±5,785 SF NATIVE SEED

NOTE:
NATIVE GRASS SEED TO BE 'PINEY WOODS ECOREGION - SANDY SOIL MIX'
10% BLACKWELL SWITCHGRASS
15% CHEYENNE INDIANGRASS
10% DUVAL GERMLASM RED LOVEGRASS
10% LAVACA CANADA WILDRIE
10% MASON SAND LOVEGRASS
10% NUCES GERMLASM SAND DROPSEED
25% OK SELECT GERMLASM LITTLE BLUESTEM
10% SANTIAGO GERMLASM SILVER BLUESTEM

SEED TO BE PLANTED 3.5 LBS PER ACRE.

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10-20-22

MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Suite 100, Texas 75701
713-597-6006
TEPE No. 14571 TDAE - DR4525

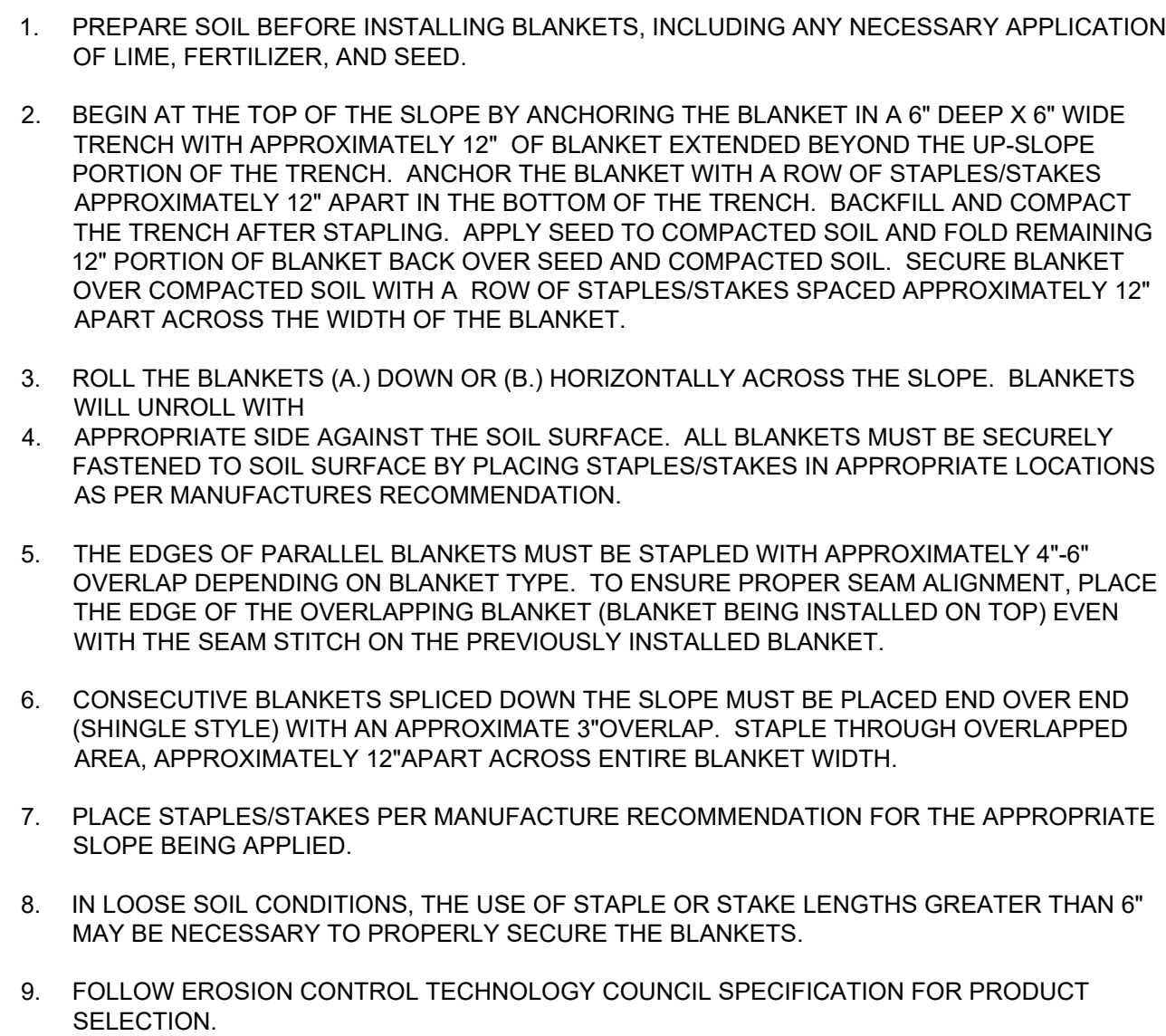
ALTERNATE BID LAYOUT
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | NSR |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C16



Know what's below.
Call before you dig.



EROSION CONTROL BLANKET
N.T.S.



1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE..
2. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE, WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STABILIZATION CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
4. THE ENTRANCE MUST BE PROPERLY GRADED, OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION EXIT
N.T.S.

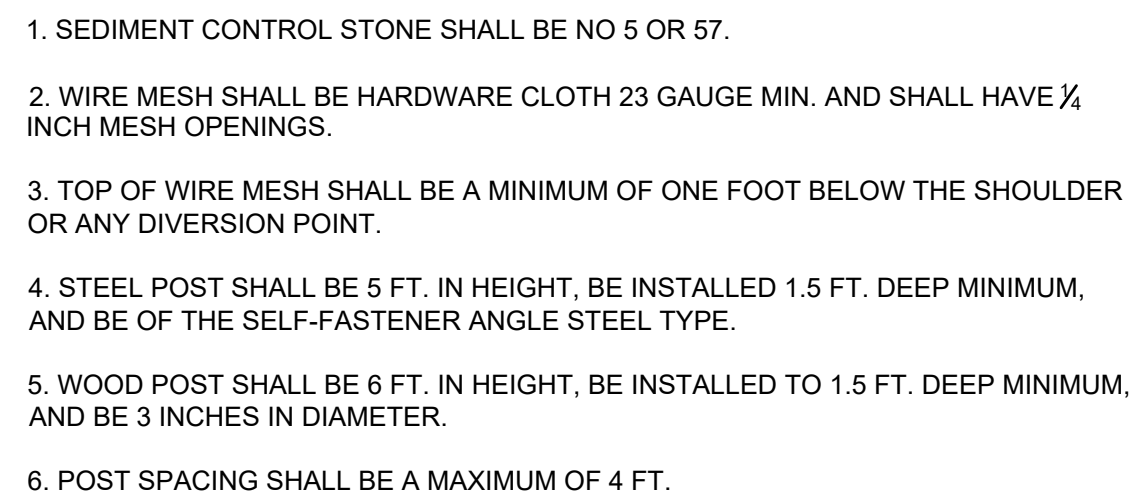


1. DRIVE POST 18" INTO GROUND AND EXCAVATE A 6"x6" TRENCH UPHILL ALONG THE LINE OF POST.
2. ATTACH WIRE FENCE TO THE POST AND EXTEND BOTTOM OF FENCE 6" INTO THE EXCAVATED TRENCH.
3. ATTACH THE SILT FABRIC TO THE WIRE FENCE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH.
4. BACKFILL THE TRENCH WITH SOIL & COMPACT OR PLACE WASHED STONE TO THE HEIGHT OF 6" ABOVE GROUND LEVEL. BOTTOM OF FENCE MUST BE ANCHORED SO THAT RUNOFF IS FORCED THROUGH THE FENCE AND CAN NOT GO UNDER IT.

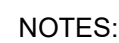
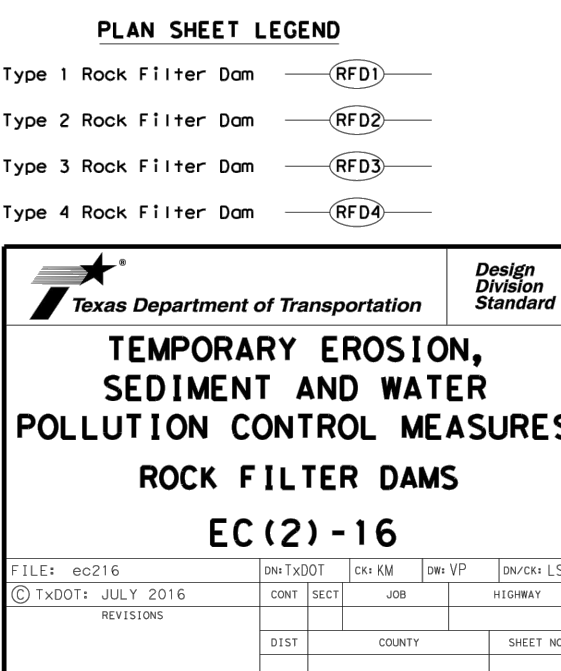
INSPECTION & MAINTENANCE:

1. INSPECTION OF FENCES SHALL BE FREQUENT AND REPAIR OR REPLACEMENT MADE PROMPTLY AS NEEDED.
2. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF PER OWNER/ENGINEER.

SILT FENCE DETAIL
N.T.S.

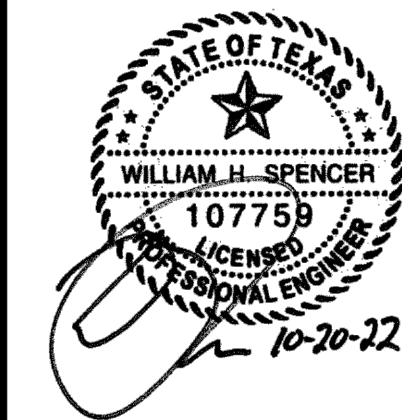


INLET PROTECTION - WIRE MESH AND GRAVEL BAG
N.T.S.



1. TREE PROTECTION SHALL BE A MINIMUM OF 6'-0" HIGH ORANGE SAFETY FENCING MOUNTED ON METAL POSTS OR 2"x4" STANDARDS DRIVEN 2'-0" (MIN.) INTO THE GROUND, AT APPROXIMATELY 8'-0" TO 10'-0" (MAX.) ON CENTER WITH NO GATES.
2. TREE PROTECTION FENCING SHALL BE ERECTED AT THE CRITICAL ROOT ZONE OR BEYOND PRIOR TO THE START OF ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY.
3. TREE PROTECTION **SHALL NOT BE REMOVED** UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITY.

TREE PROTECTION FENCE
N.T.S.



CONSTRUCTION DETAILS I

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR

CHECKED: WHS

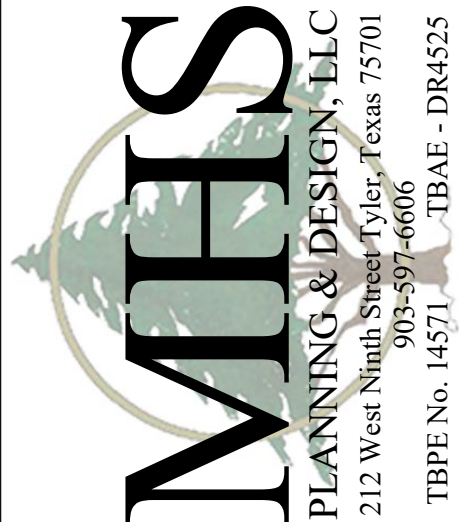
DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

C17

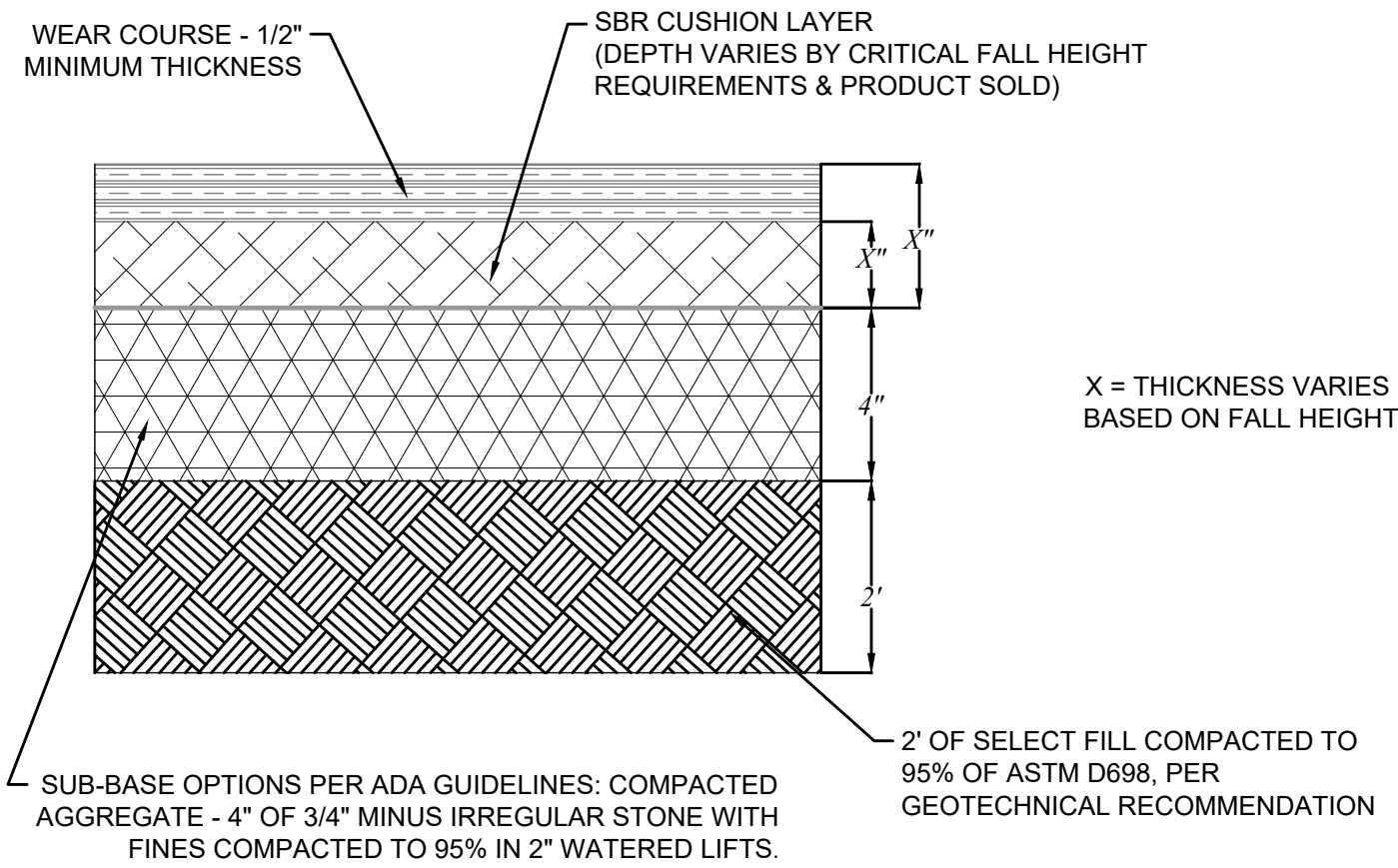
REVISIONS:



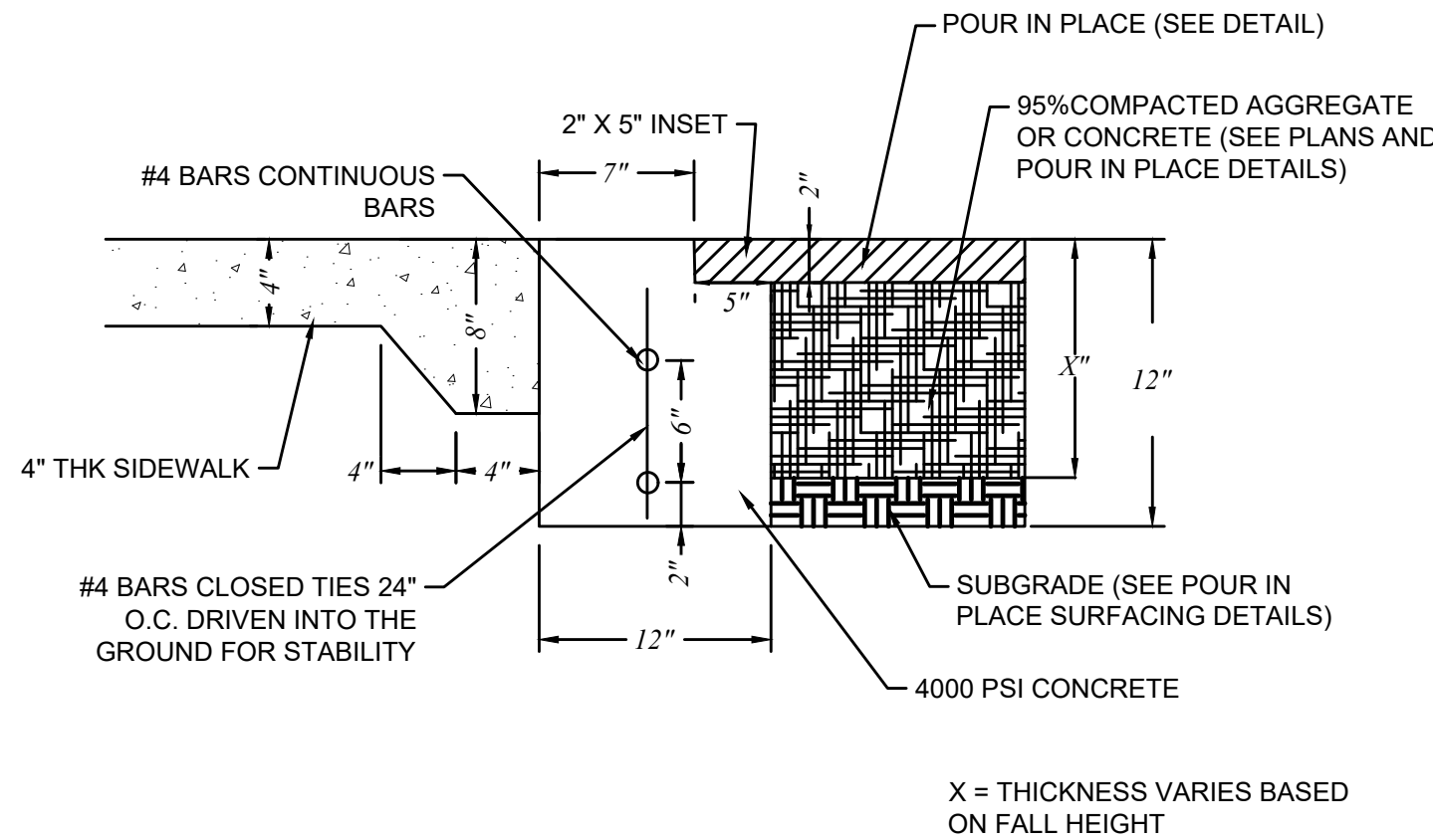
CONSTRUCTION DETAILS II
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SMM
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

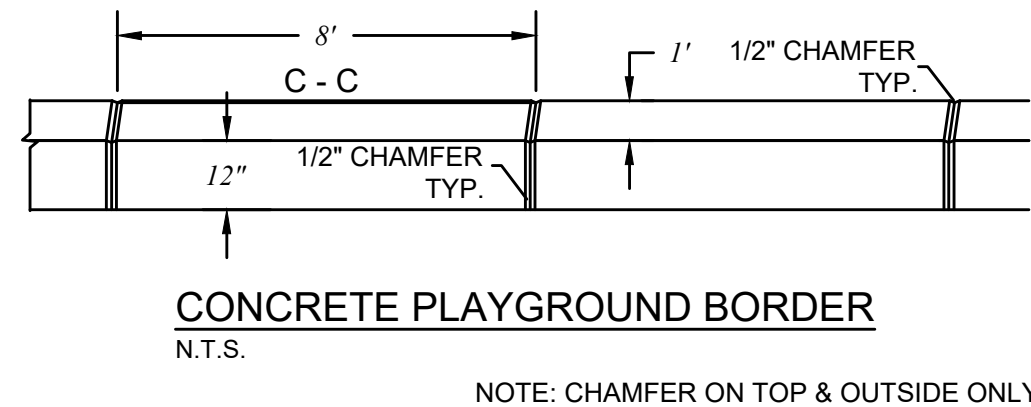
C18



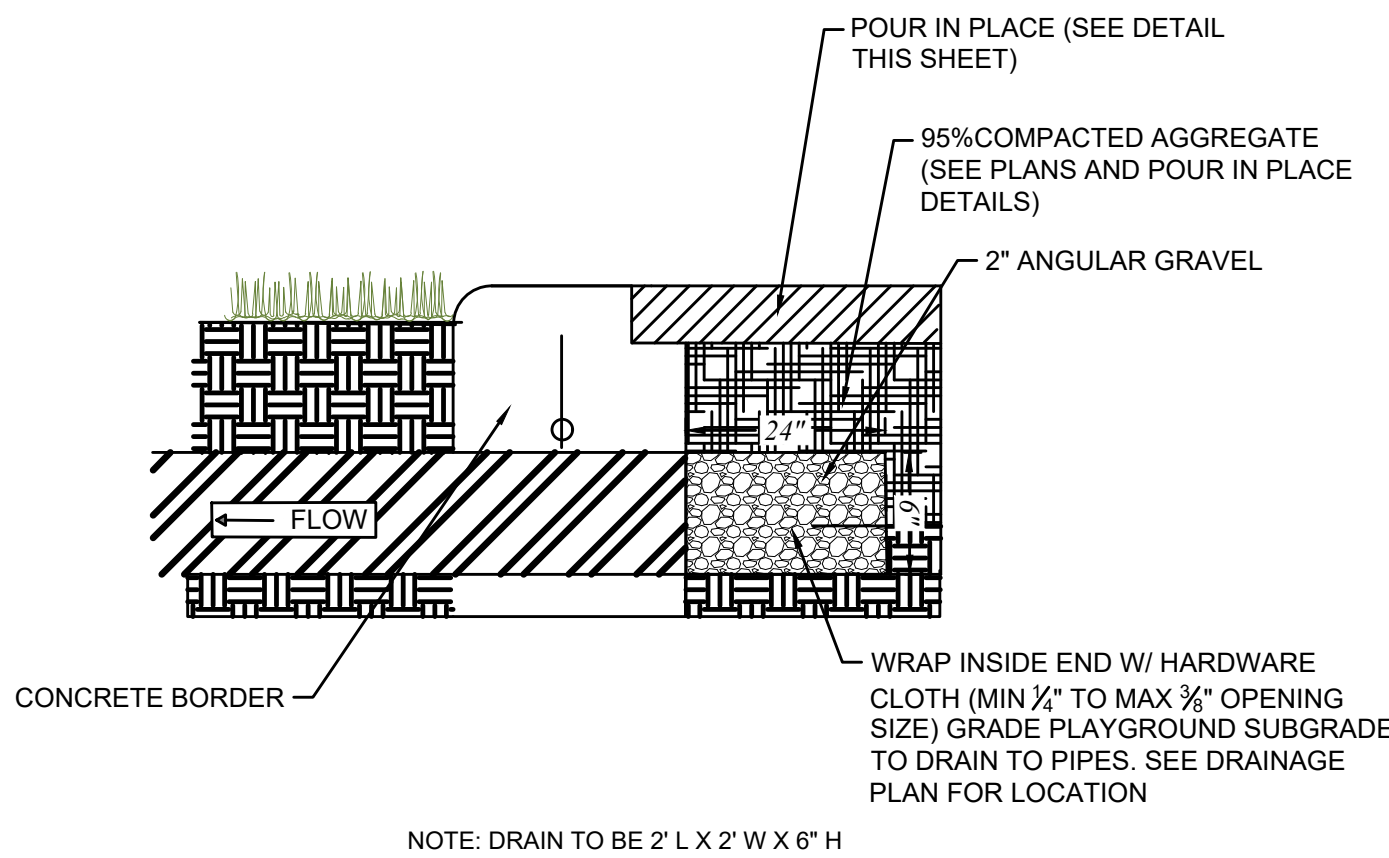
POUR IN PLACE SURFACE DETAIL
N.T.S.



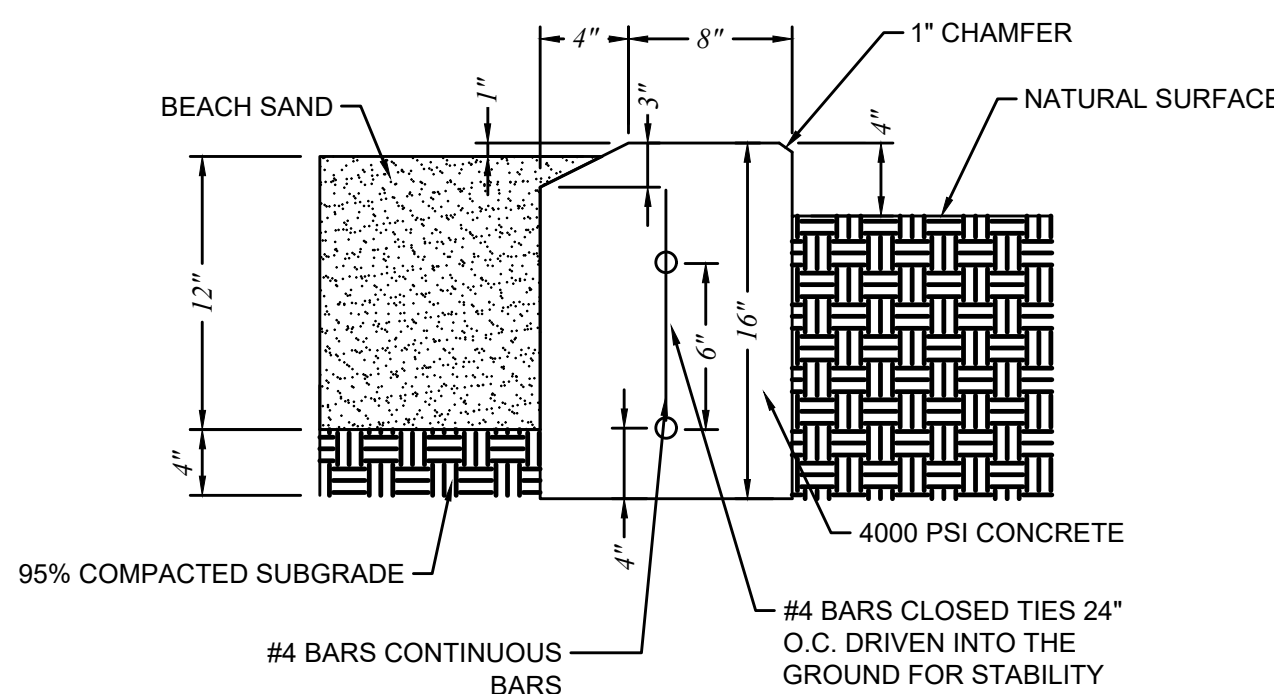
CONCRETE PLAYGROUND BAND DETAIL
SIDEWALK TIE-IN (POUR IN PLACE)
N.T.S.



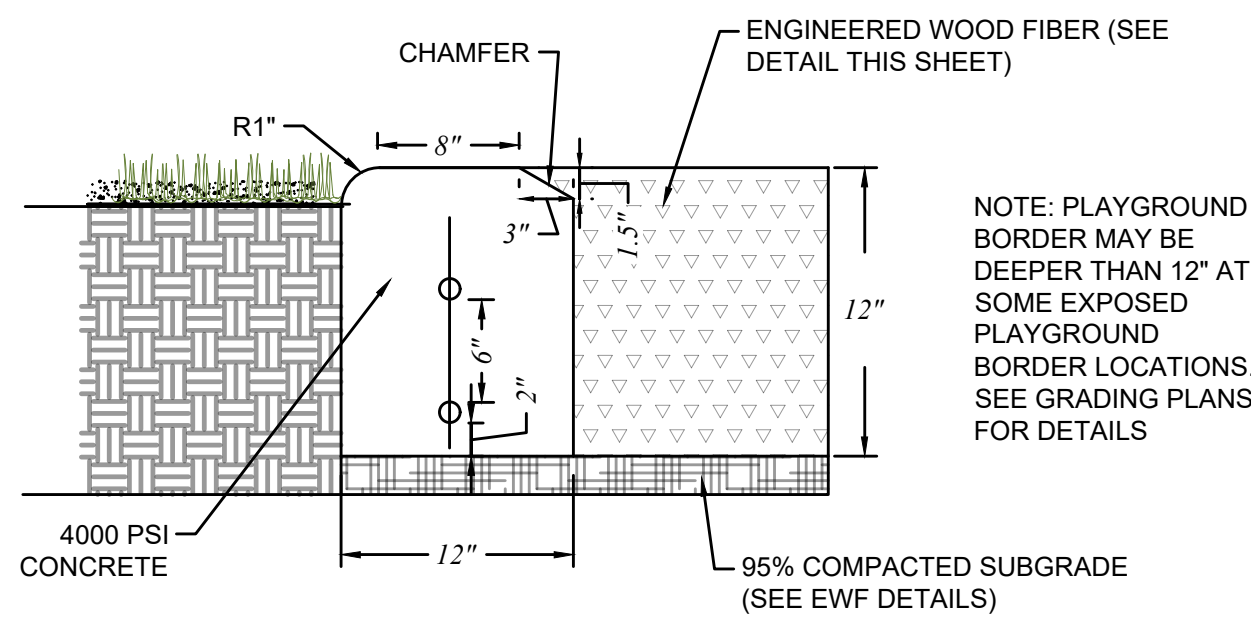
NOTE: CHAMFER ON TOP & OUTSIDE ONLY



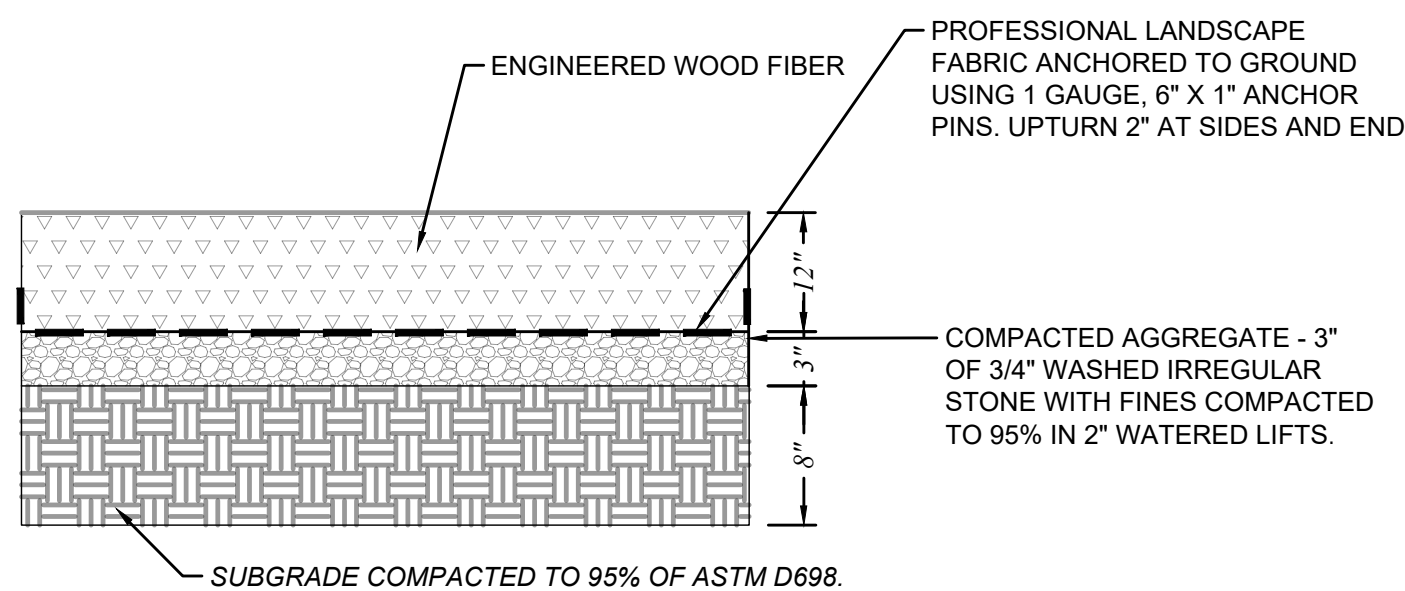
PLAYGROUND DRAIN DETAIL
(POUR IN PLACE OVER COMPACTED AGGREGATE)
N.T.S.



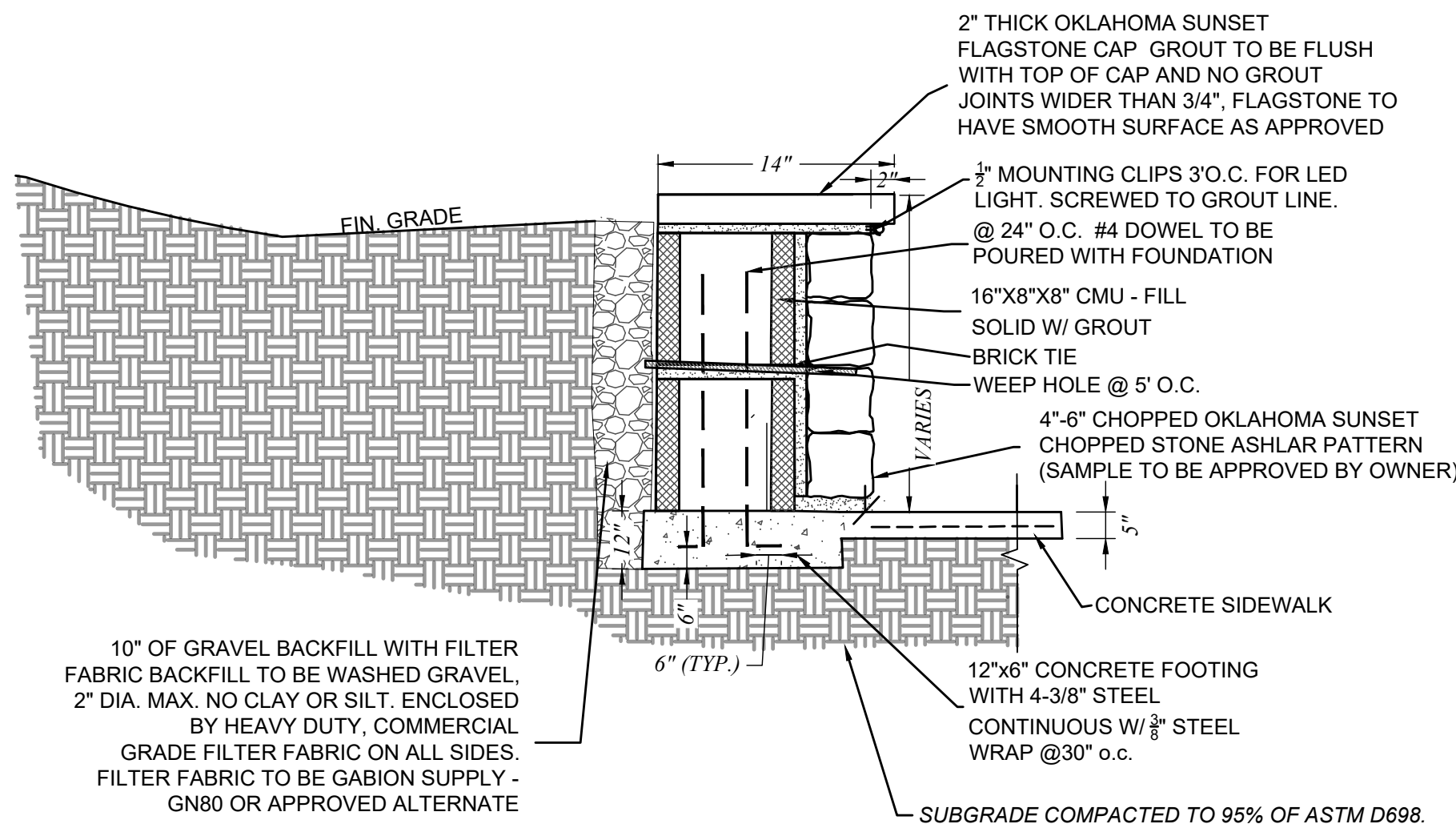
CONCRETE BEACH BAND DETAIL
(BEACH SAND)
N.T.S.



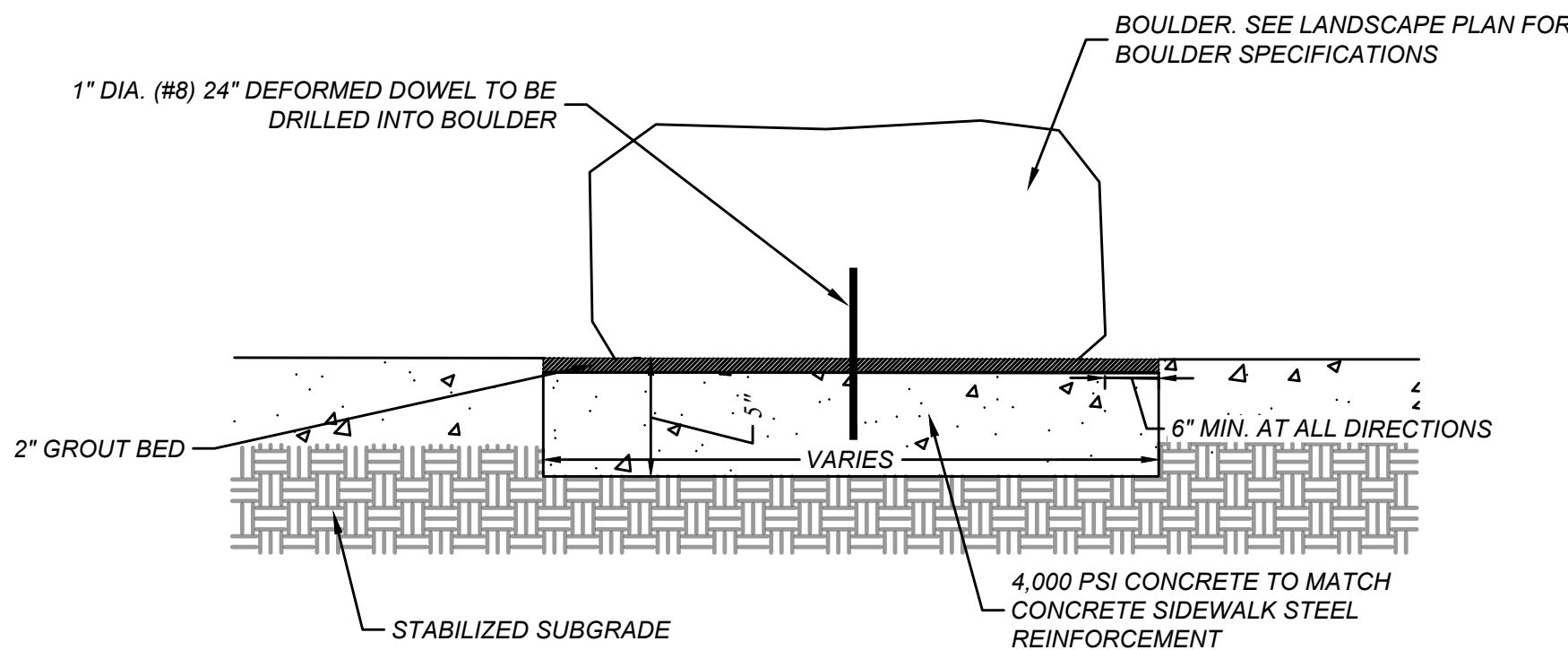
12" CONCRETE PLAYGROUND BAND DETAIL
(ENGINEERED WOOD FIBER)
N.T.S.



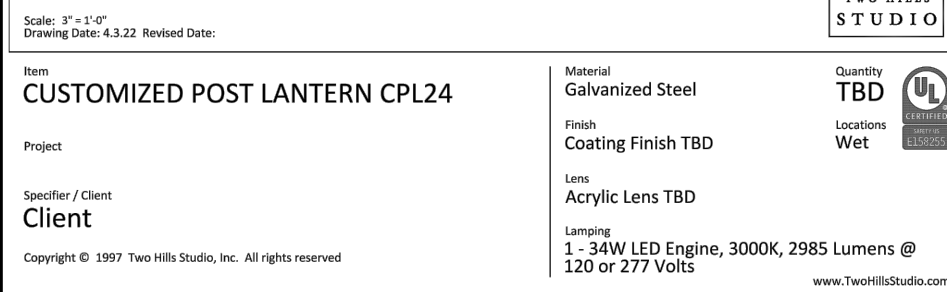
ENGINEERED WOOD FIBER DETAIL
N.T.S.



STONE LANDSCAPE WALL
N.T.S.



BOULDER ON CONCRETE DETAIL
N.T.S.



- | REBAR LAP SCHEDULE | |
|--------------------|-----|
| BAR SIZE | LAP |
| #5 | 30" |

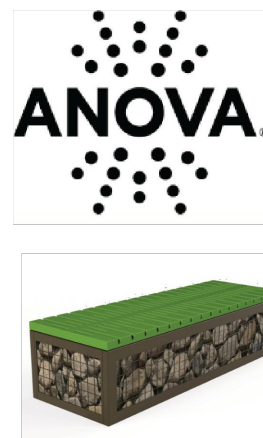


MHS
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
903-597-6606
TBPE No. 14571 TBAXE - DR4525

| | |
|----------|------------|
| DRAWN: | TMG |
| CHECKED: | WHS |
| DATE: | 10/31/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C19

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\CONSTRUCTION DETAILS.dwg



211 North Lindbergh Blvd.
St. Louis, MO 63141
800.231.1327tel 314.754.0835 fax
sales@anovafurnishings.com
anovafurnishings.com

CAN1872P - Canyon Fusion Advantage™ Steel Gabion-Style 6' Bench 6' gabion-style bench with Fusion Advantage™ seat.

Material:
The 6' gabion-style bench is composed of a 12-gauge steel seat with a "piano key" pattern. The bench cage is constructed from a frame that is 14-gauge, alloy 5052 aluminum and type 304 stainless steel mesh panels with a 1/2" wire diameter. The frame features 2" slots that accept 3/8" anchors for surface mounting to prevent movement. The stool is designed to support 200 lbs. per linear foot.

Finish:
Steel seat is protected by the patented Fusion Advantage™ finish. The plasticoat coating has an average thickness of 0.125" and is encapsulated with a richly tinted, high performance powder coating that won't rust, fade, peel, chip, crack, mold or mildew. The finish has been tested to the requirements of ASTM E1345 and determined to be in compliance with California Uniform Fire Code 1003.2.1.4.2.

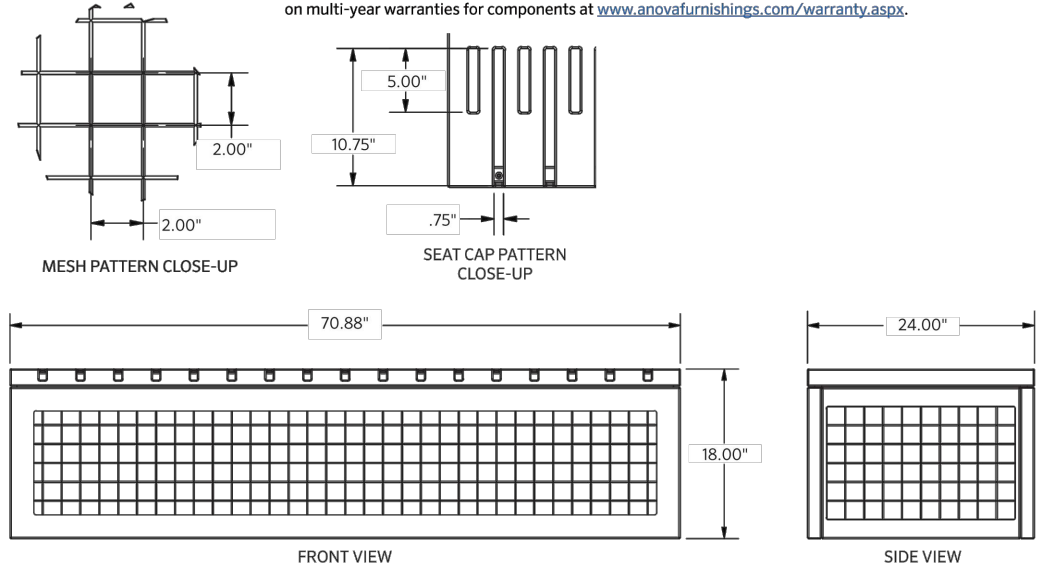
Rust-proof aluminum and rust-resistant primed steel components feature a fade-resistant powder coating. Treated components exceed the industry standard by 34% in testing by independent sources.

Color:
See website or sales representative for color choices.

Assembly:
The bench requires some assembly; stainless steel assembly hardware is included.

Maintenance:
The product is virtually maintenance-free and requires only periodic cleaning with a sponge and a solution of mild detergent and water to remove surface dirt. Do not clean with solvent or petroleum base products.

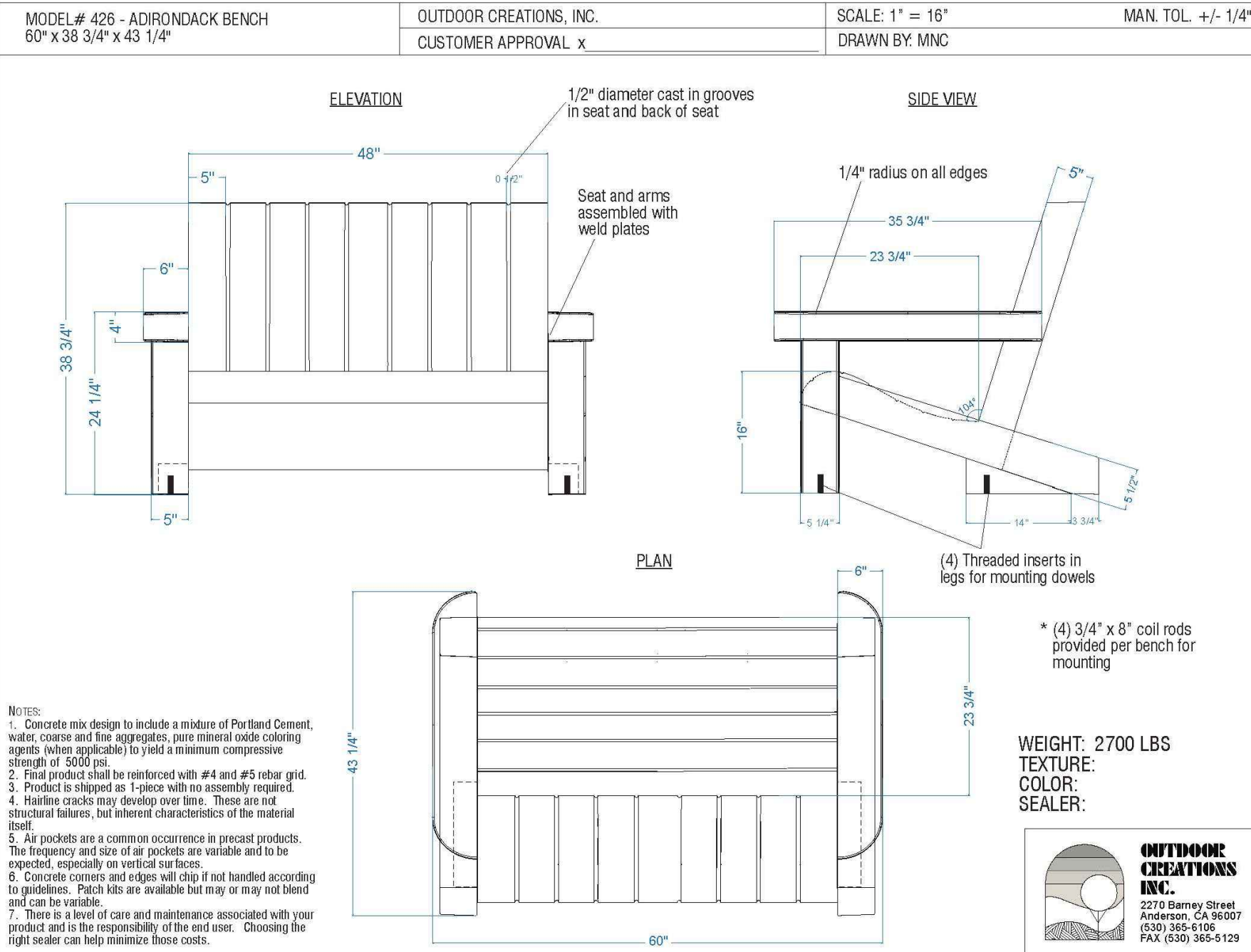
Warranty:
30-year limited structural warranty with 7-year finish warranty from the date of purchase. See full details on multi-year warranties for components at www.anovafurnishings.com/warranty.aspx.



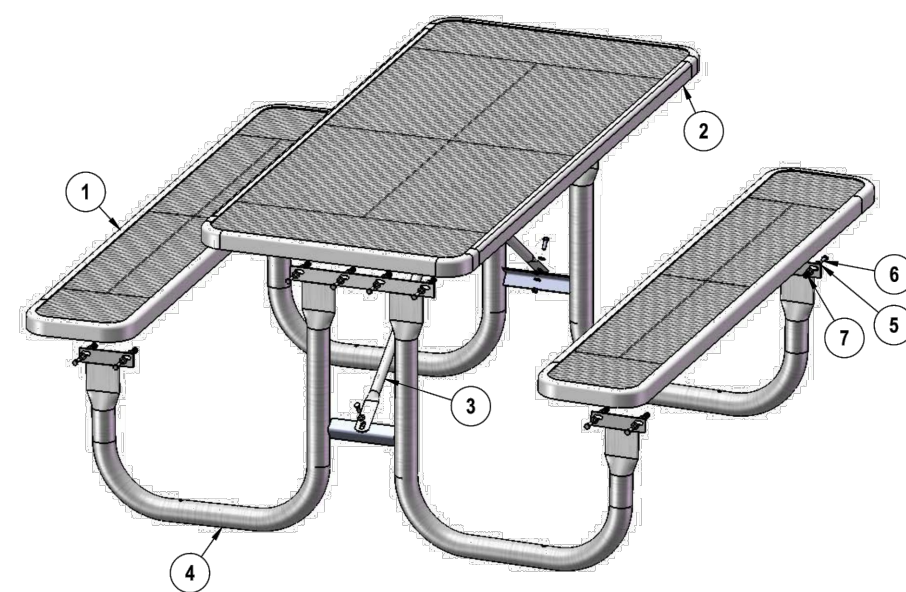
7/30/2021

Copyright 2021 ANOVA®

Manufactured in the U.S.



COMPONENTS

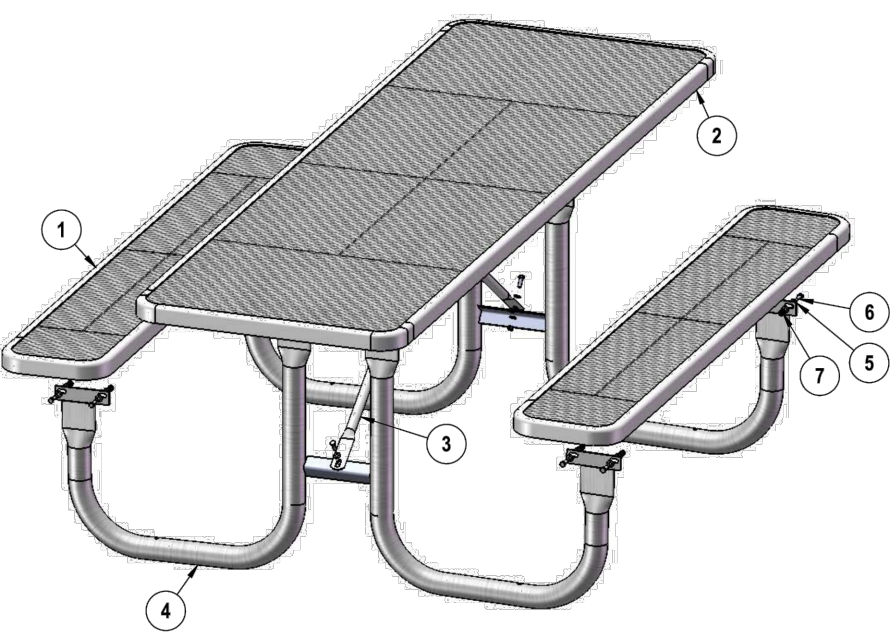


Optional Surface Mount Hardware:
5/16" x 5-1/2" Concrete Expansion Anchor Bolts
(Not Included)

| ITEM NO. | PartNo | DESCRIPTION | QTY |
|----------|--------------|--------------------------------------|-----|
| 1 | T-V72-S | 6' Expanded Seat | 2 |
| 2 | T-V72-T | 6' Expanded Top | 1 |
| 3 | P-01-04-0125 | 28 7/8" Brace | 2 |
| 4 | P-V236 | 238 Vinyl Frame | 2 |
| 5 | 33-06-0092 | 5/16" x 1 1/2" Button Torx Bolt (SS) | 40 |
| 6 | 33-05-0029 | 5/16" x 1" Machine Bolt (SS) | 20 |
| 7 | 33-03-0012 | 5/16" Kep Nut (SS) | 20 |

Page 7 of 11

COMPONENTS

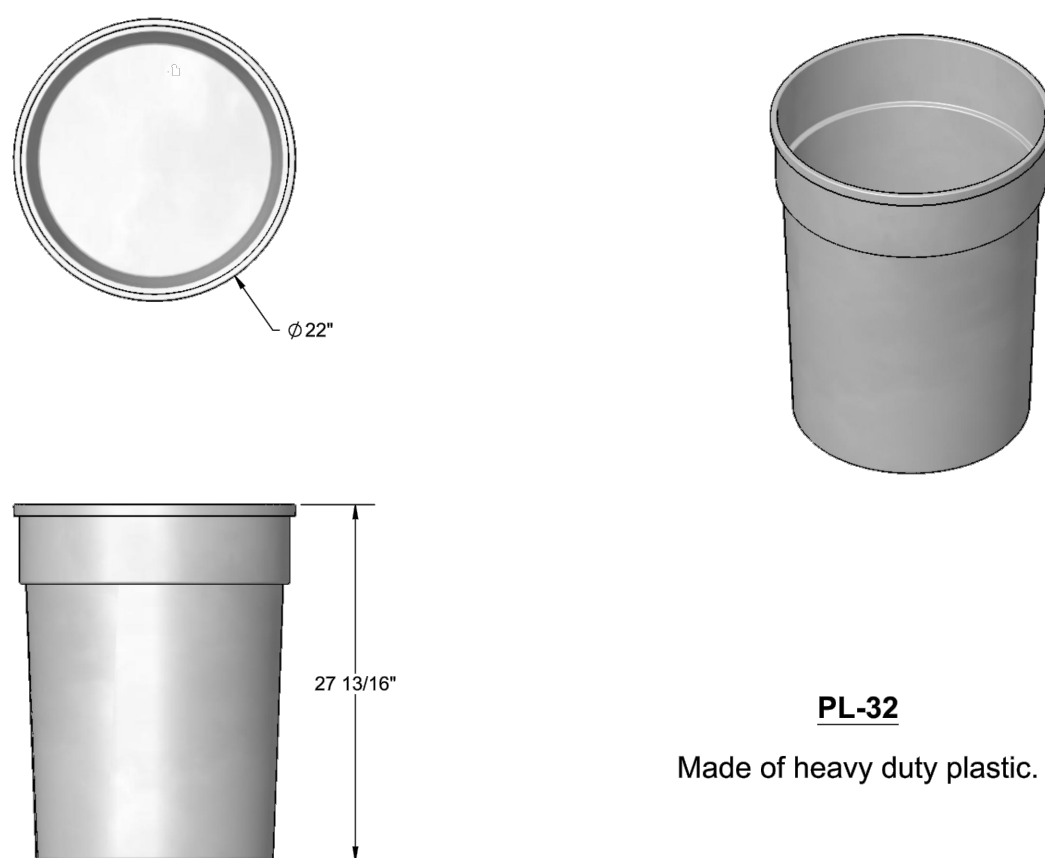


Optional Surface Mount Hardware:
5/16" x 5-1/2" Concrete Expansion Anchor Bolts
(Not Included)

| ITEM NO. | PartNo | DESCRIPTION | QTY |
|----------|--------------|--------------------------------------|-----|
| 1 | T-V72-S | 6' Expanded Seat | 2 |
| 2 | T-V96H-T | 8' H expanded Top | 1 |
| 3 | P-01-04-0125 | 28 7/8" Brace | 2 |
| 4 | P-V236 | 238 Vinyl Frame | 2 |
| 5 | 33-06-0092 | 5/16" x 1 1/2" Button Torx Bolt (SS) | 40 |
| 6 | 33-05-0029 | 5/16" x 1" Machine Bolt (SS) | 20 |
| 7 | 33-03-0012 | 5/16" Kep Nut (SS) | 20 |

Page 7 of 11

OVERALL DIMENSIONS



PL-32
Made of heavy duty plastic.

ultra site

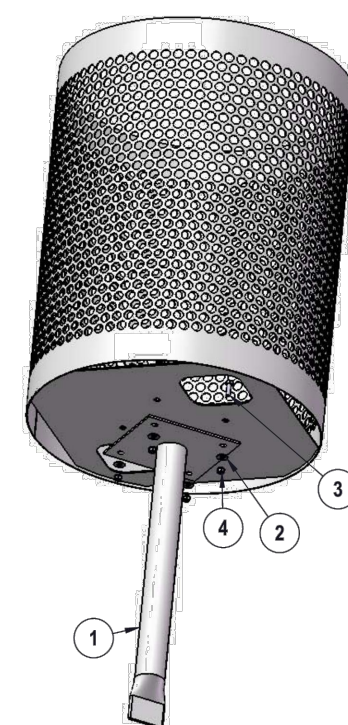
800-45-ULTRA

www.ultrasite.com

6/11/2012

Page 4 of 4

IN-GROUND MOUNTING OPTION



IG KIT

INGROUND MOUNT FOR TRASH RECEPTACLE

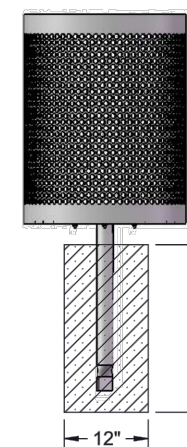
Frame: 2- 3/8" O.D. x 12 gauge pre-galvanized structural steel tubing.
Receptacle mounting plates are 7 gauge x 8" x 8" steel plate with 4 holes.

Frame Coating: Electrostatic powder coated application oven cured.

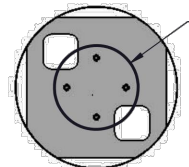
Hardware: All stainless steel hardware fasteners. (Included).

Dimensions: Overall dimension is 24 1/4" x 8" x 8".

Attach the IG KIT to the PR-32 as shown using specified hardware.



Estimated Required Concrete:
5 - 50lb Bags of Concrete Mix



| ITEM NO. | PartNo | DESCRIPTION | QTY |
|----------|--------------|------------------------------|-----|
| 1 | P-01-05-0052 | receptacle in-ground mount | 1 |
| 2 | 33-02-0007 | 5/16" SS Washer | 8 |
| 3 | 33-05-0029 | 5/16" x 1" Machine Bolt (SS) | 4 |
| 4 | 33-03-0012 | 5/16" Kep Nut (SS) | 4 |

ultra site

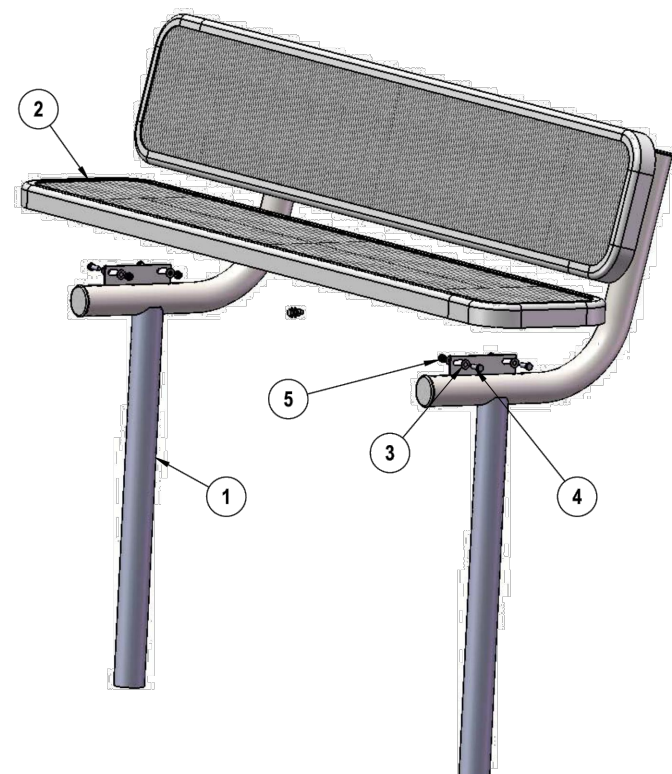
800-45-ULTRA

www.ultrasite.com

11/21/2018

Page 5 of 10

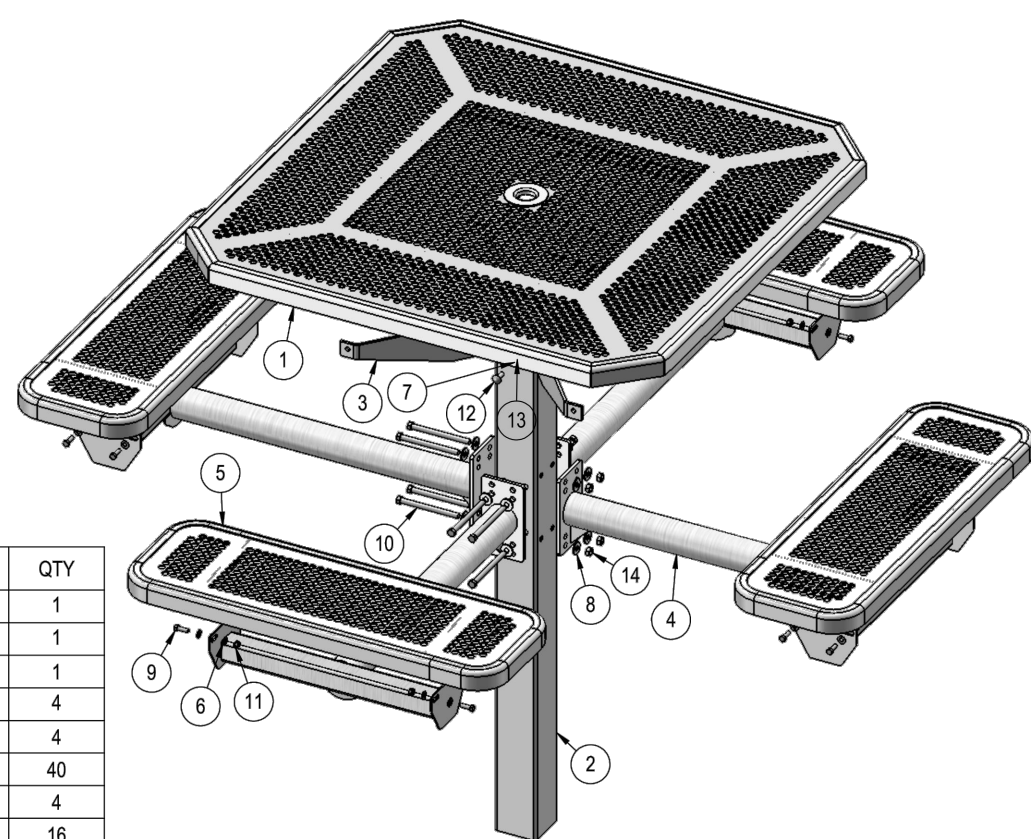
COMPONENTS



| ITEM NO. | PartNo | DESCRIPTION | QTY |
|----------|------------|------------------------------|-----|
| 1 | P-V940S | 940 In Ground Leg | 2 |
| 2 | T-V72-S | 6' Expanded Seat | 2 |
| 3 | 33-02-0007 | 5/16" SS Washer | 18 |
| 4 | 33-05-0029 | 5/16" x 1" Machine Bolt (SS) | 9 |
| 5 | 33-03-0012 | 5/16" Kep Nut (SS) | 9 |

Page 7 of 11

COMPONENTS



| ITEM NO. | PartNo | DESCRIPTION | QTY |
|----------|------------------|------------------------------|-----|
| 1 | T-OP46-T | 46" Octagon Punched Top | 1 |
| 2 | P-338S or G-338S | 338 IG post assem | 1 |
| 3 | P-01-04-0150 | H Bracket | 1 |
| 4 | P-V338-ARM | 338 vinyl arm | 4 |
| 5 | T-P36-S | 3" Punched Seat | 4 |
| 6 | 33-02-0007 | 5/16" Flat Washer (SS) | 40 |
| 7 | 33-02-0008 | 3/8" Flat Washer (SS) | 4 |
| 8 | 33-02-0004 | 7/16" SS Washer | 16 |
| 9 | 33-05-0029 | 5/16" x 1" Machine Bolt (SS) | 20 |
| 10 | 33-06-0049 | 7/16" x 5-1/2" Machine Bolt | 8 |
| 11 | 33-03-0012 | 5/16" Kep Nut (SS) | 20 |
| 12 | 33-06-0042 | 3/8" x 1" Carriage Bolt (SS) | 4 |
| 13 | 33-01-0018 | 3/8" Hex Nut (SS) | 4 |
| 14 | 33-01-0006 | 7/16" Hex Nut (SS) | 8 |

ultra site

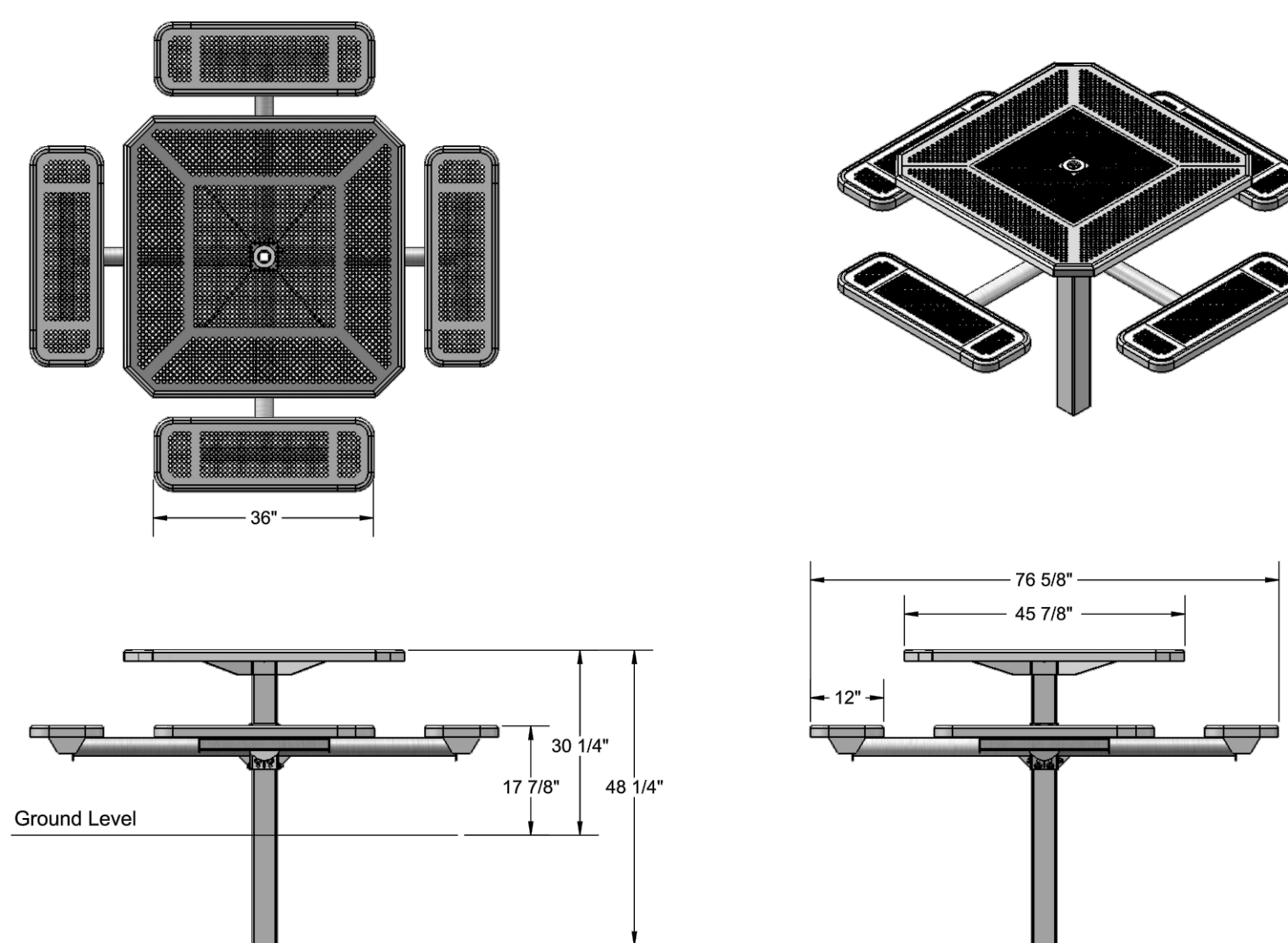
800-45-ULTRA

www.ultrasite.com

7/31/2012

Page 7 of 13

OVERALL DIMENSIONS



ultra site

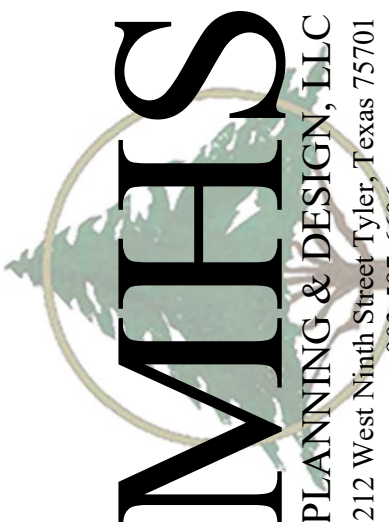
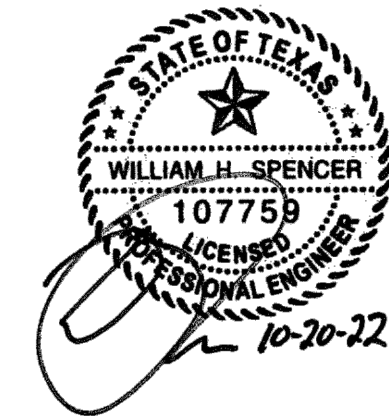
800-45-ULTRA

www.ultrasite.com

7/31/2012

Page 13 of 13

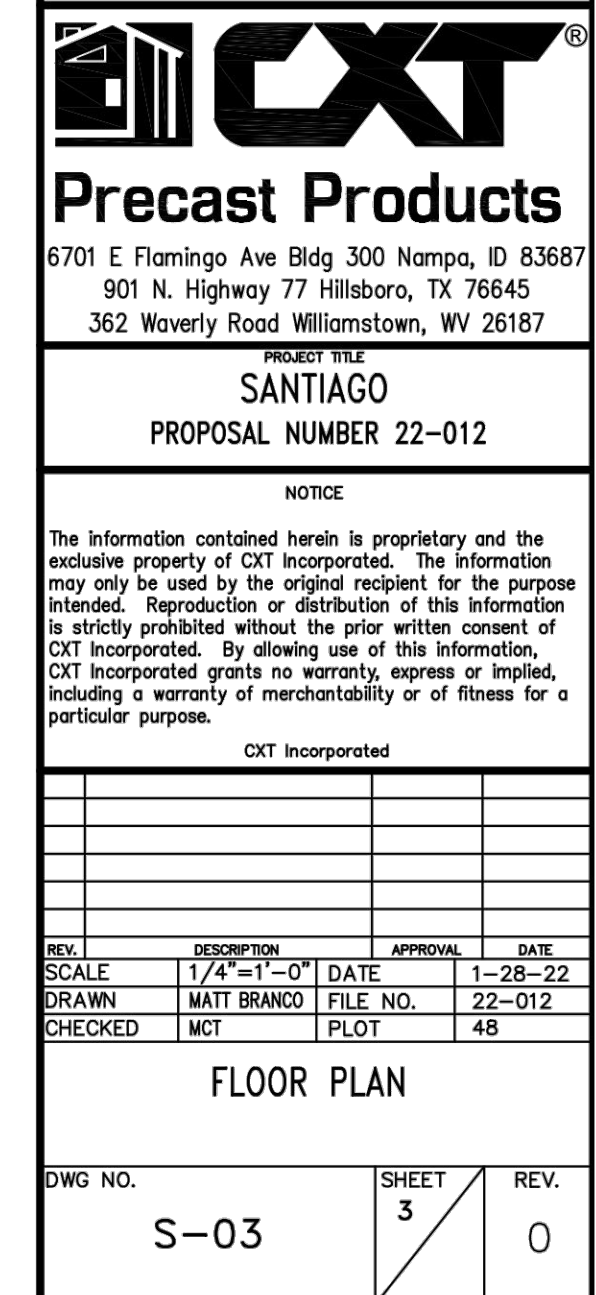
REVISIONS:



CONSTRUCTION DETAILS IV PENDLETON PROPERTY PHASE 2 SABINE RIVER AUTHORITY OF TEXAS

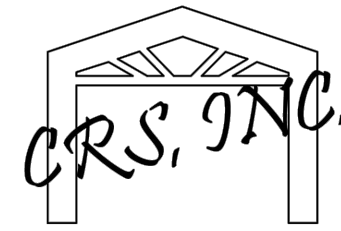
DRAWN: NSR
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C20

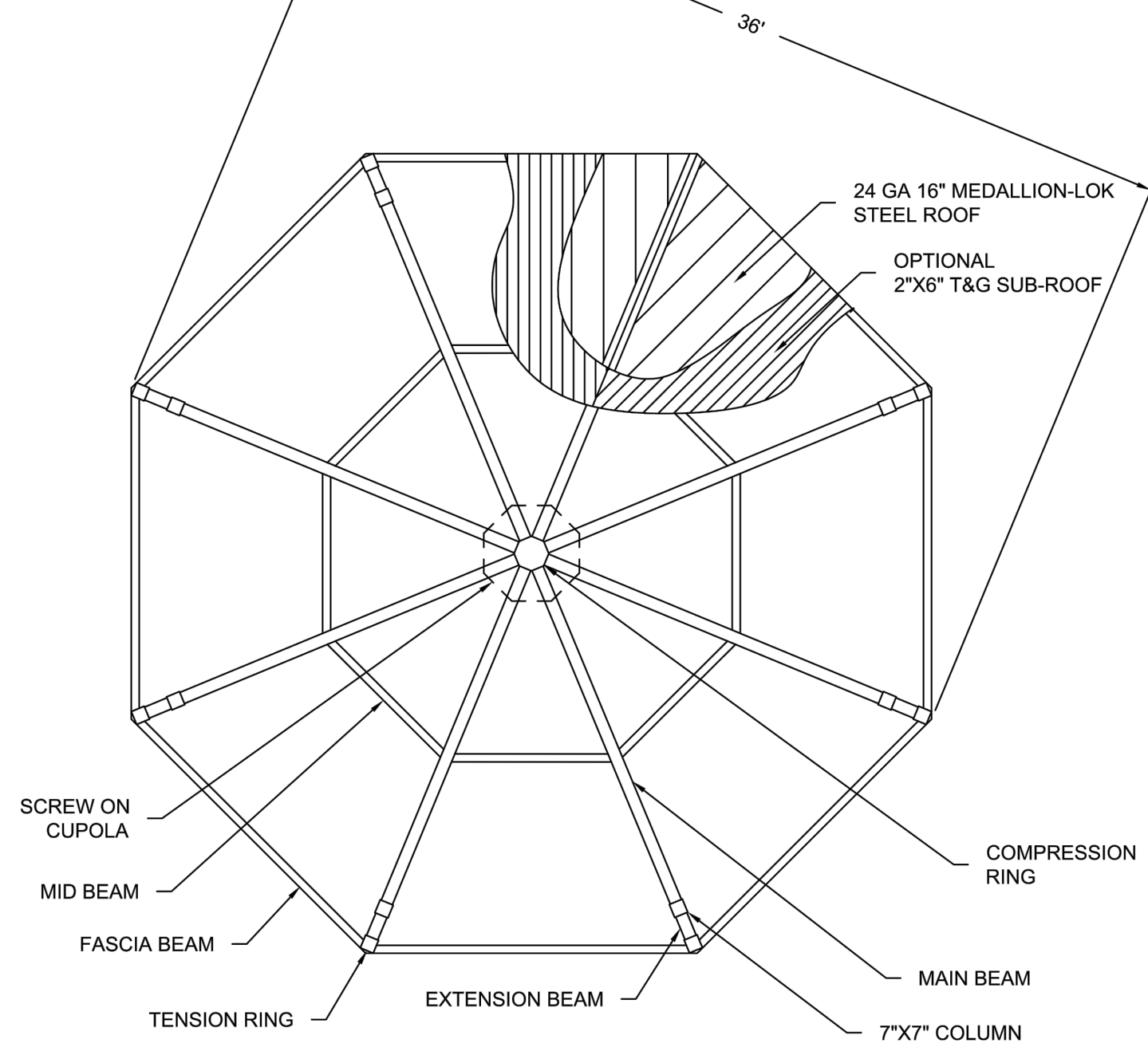


- STAINLESS STEEL WATER CLOSET (8)
- STAINLESS STEEL URINAL (1)
- STAINLESS STEEL LAVATORY (7)
- ELECTRIC HAND DRYER (5)
- EXTERIOR MOUNTED ADA DRINKING FOUNTAIN (2)
- EXTERIOR FROSTPROOF HOSE BIB W/ BOX (1)
- BABY CHANGING STATION (2)
- CXT WASTEBASKET (5)
- 100 AMP PANEL INSTEAD OF TYPICAL 200 AMP PANEL

NOTE: CXT TO PROVIDE FULL STAMPED PLANS AND ELEVATIONS WHEN BILL IS APPROVED.



NOT FOR CONSTRUCTION



PLAN VIEW 36' OREGON MODEL
NTS

NOTE:
CRS INC. TO PROVIDE FULL
STAMPED PLANS ONCE BILL IS
APPROVED.

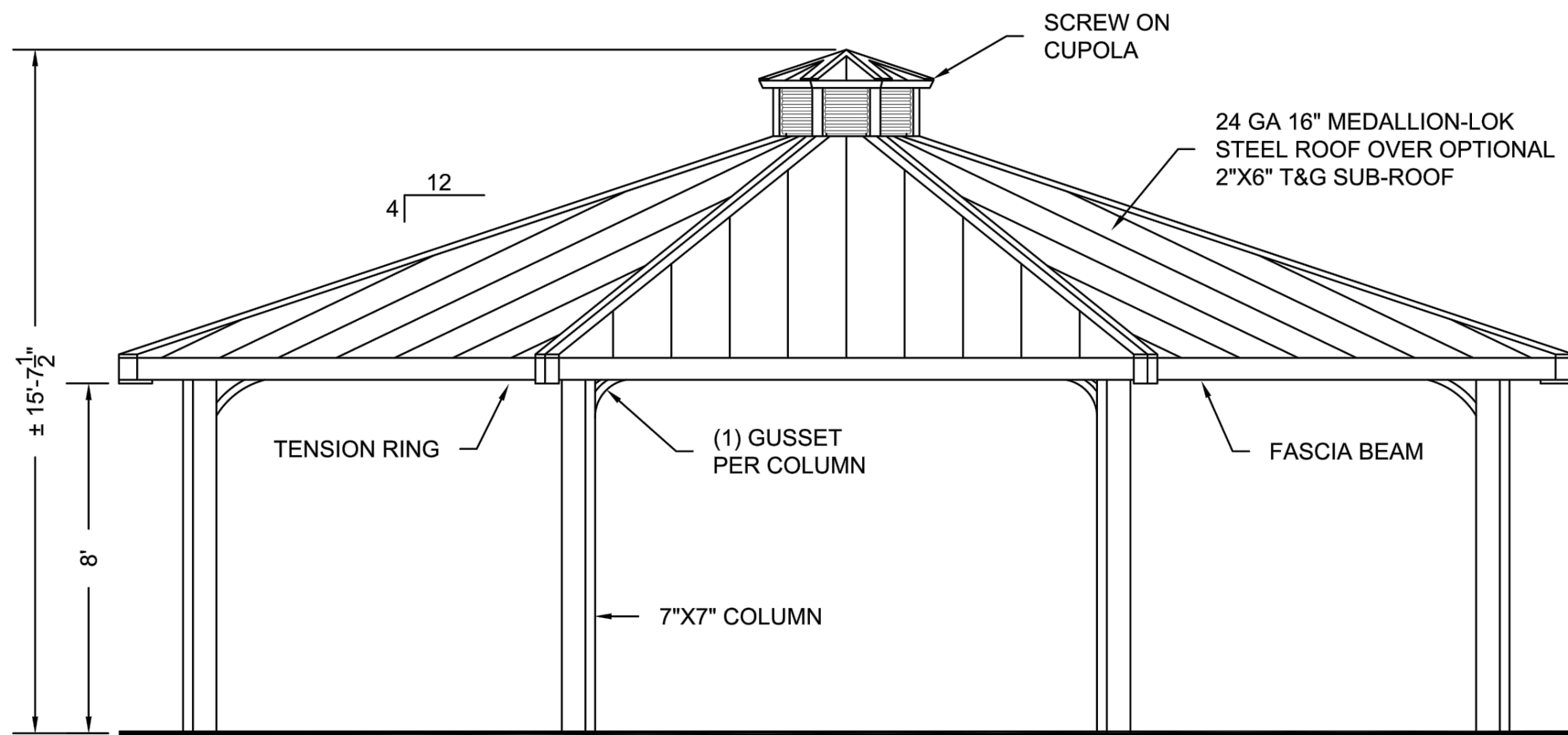
REFER TO STRUCTURAL SHEET - S2
FOR FOUNDATION DESIGN FOR
SMALL PAVILION

COLORS:
ROOF: RAL 5000
STEEL MEMBERS: RAL 7030

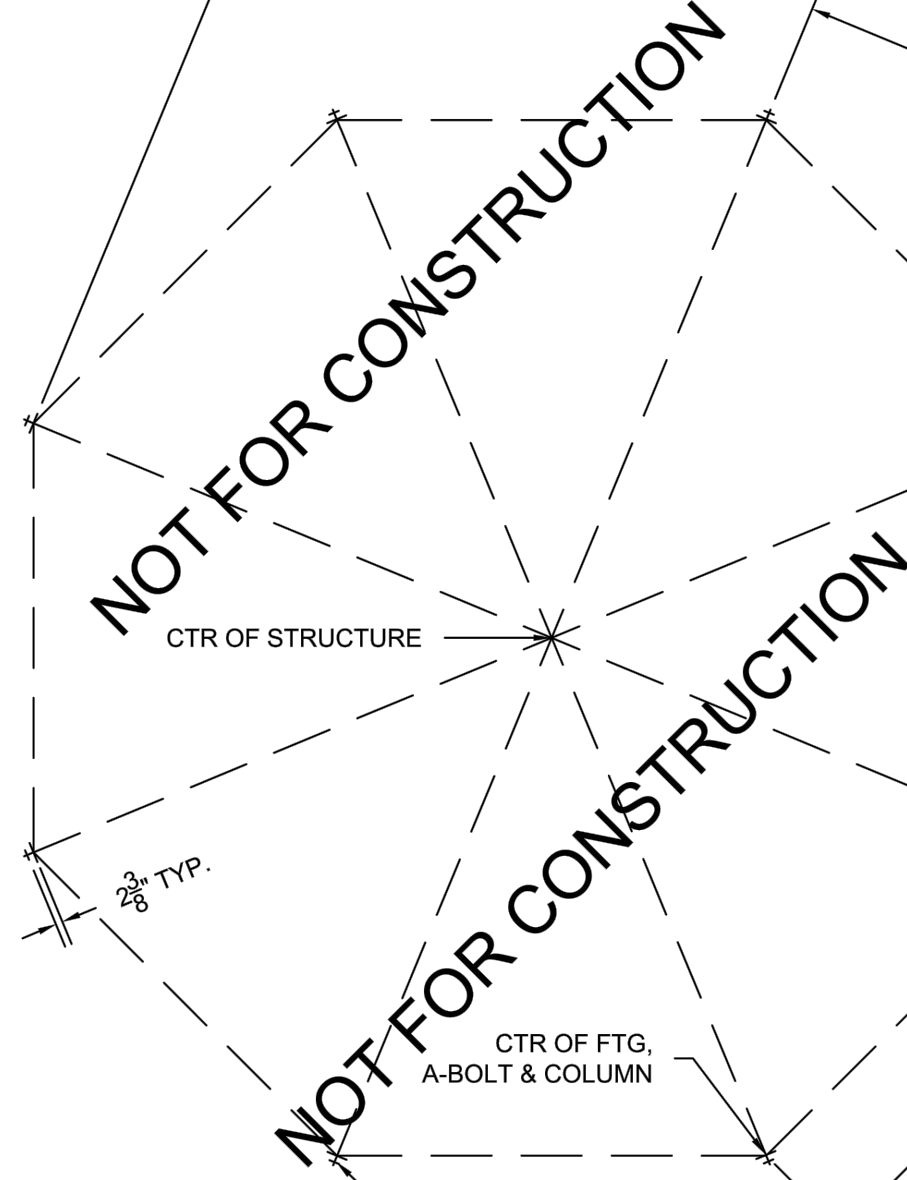
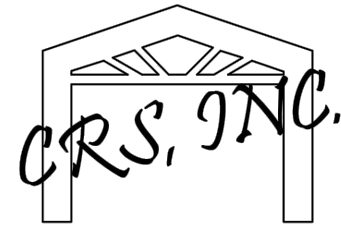
VENDOR CONTACT:

CLASSIC RECREATION
KIM NEAL
214-505-6235
SITESOURCE@TX.RR.COM

NOT FOR CONSTRUCTION



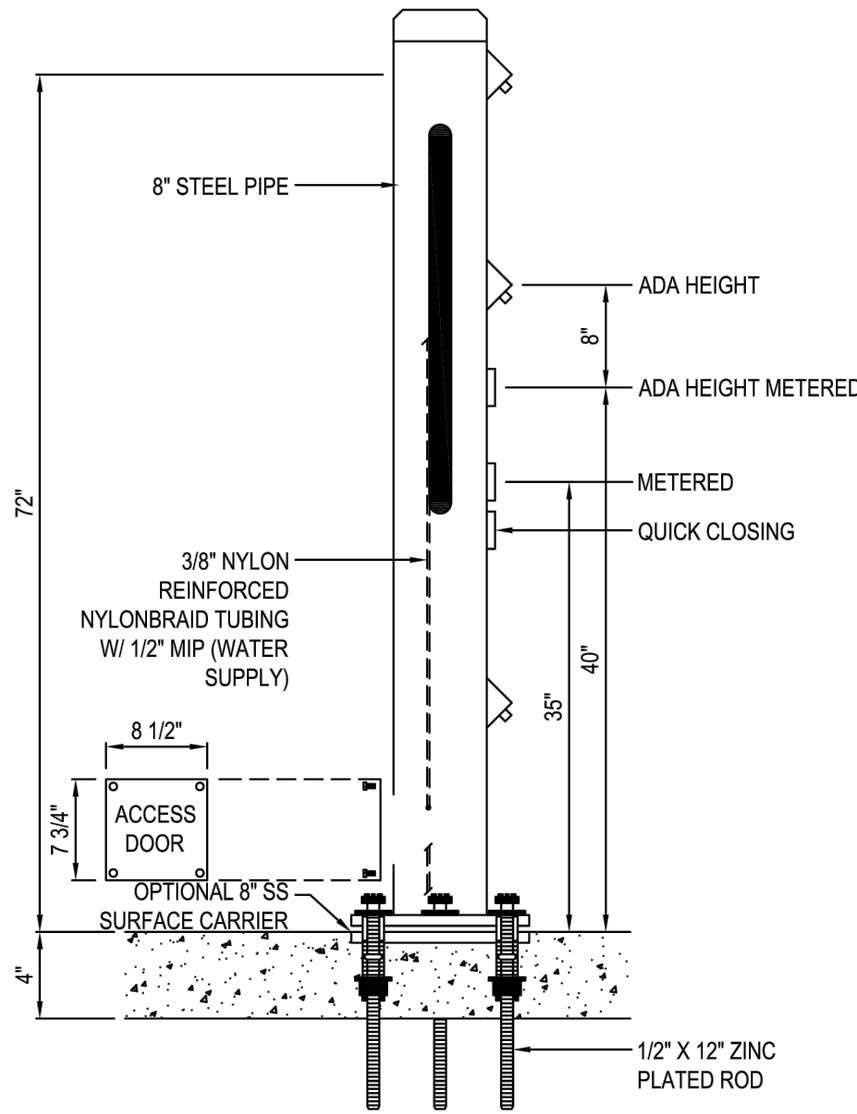
ELEVATION 36' OREGON MODEL
NTS



LAYOUT PLAN 36' OREGON MODEL
NTS



MOST DEPENDABLE FOUNTAINS, INC.
5705 COMMANDER DR. P.O. BOX 587
ARLINGTON, TN 38002-0587
PHONE: (901) 867-0039
www.mostdependable.com



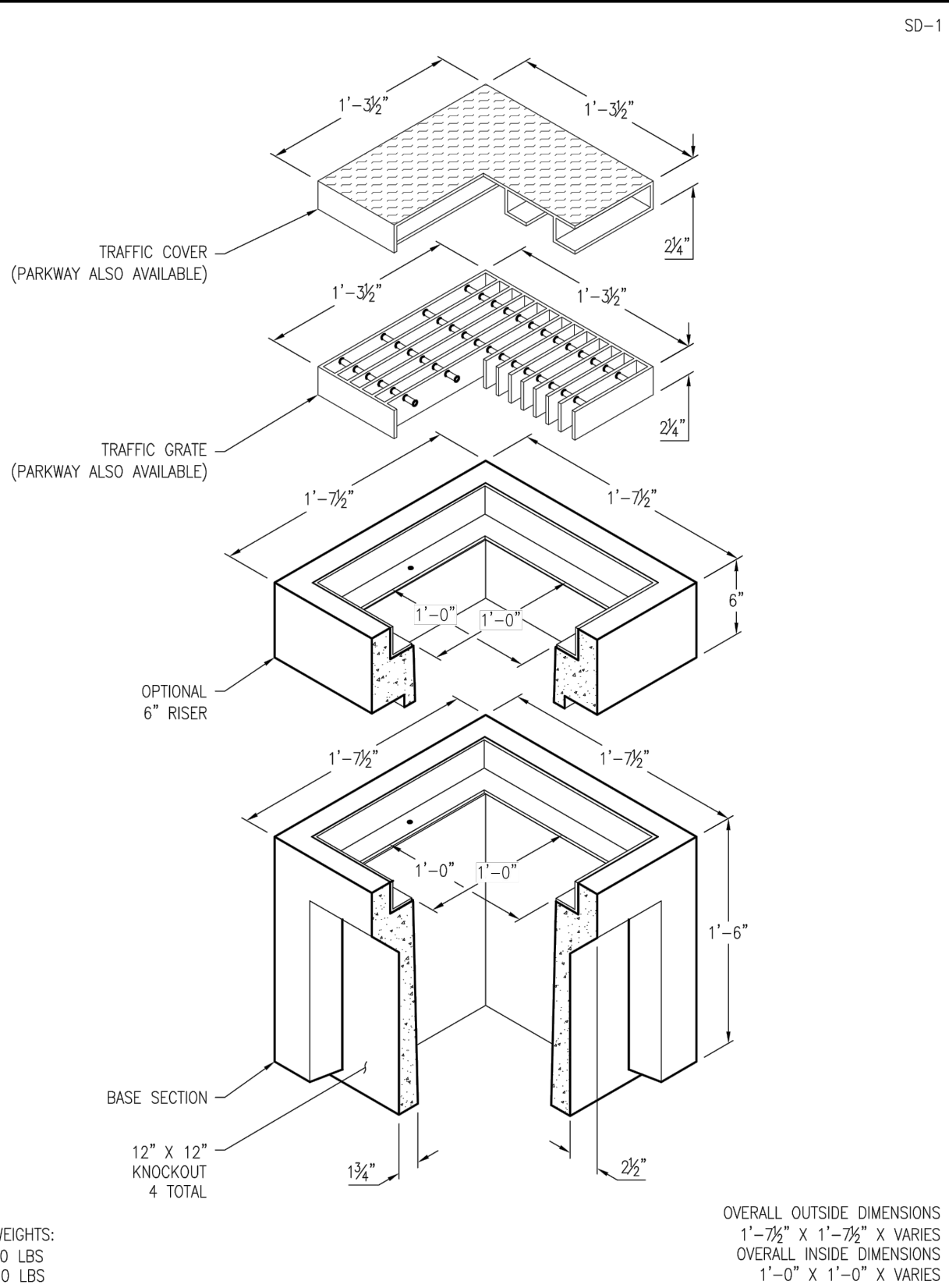
- NOTES:
1. OPTIONAL STAINLESS STEEL SURFACE CARRIER RECOMMENDED ON SURFACE MOUNT INSTALLATIONS.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWING.
 4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-10.5.

565 SM ADA SHOWER
SHOWN W/ OPTIONAL 8" SS SURFACE CARRIER



3354-10.5.
PROTECTED BY COPYRIGHT ©2022 CADDETAILS.COM LTD.

REVISION DATE 04/05/2022
CADdetails.com



Oldcastle Precast®
Southern California
Fontana • Lakeside • Perris • San Diego • Santa Paula
Phone: 855-625-3860 Fax: 971-797-0790

1212CB
FILE NAME: 0701212SDCB.DWG
REVISED: Jun-15
www.oldcastleprecast.com

12" X 12"
CATCH BASIN
STORM DRAIN
Copyright © 2015 Oldcastle Precast, Inc.®

Heavy Duty Grate :
VS115-M2 or Equal
Weight : 170 Lbs.

6" Riser W/ Frame
Weight : 302 Lbs.

12" Riser
Weight : 604 Lbs.

Bottom :
Bottom
Wall(s) Weight (lbs.)
4-Way - 1,294

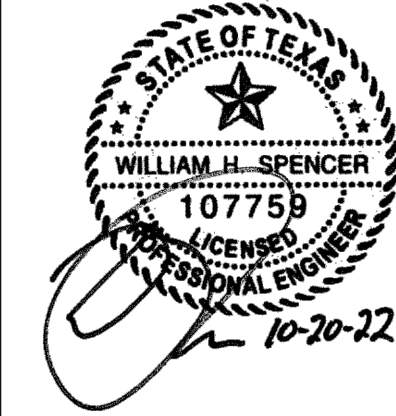
Notes :
1. Bedding Shall be 6" Cement Stabilized Sand or Select Material.

Oldcastle Precast®
2120 FM 359 S Brookshire, TX 77423
Phone: 713-934-7900 Fax: 713-934-7901

CB-242436
FILE NAME: 266-24x24-DIC
ISSUE DATE: JANUARY, 2008
www.oldcastlebrookshire.com

24" x 24"
CATCH BASIN
STANDARD DRAWING
Copyright © 2008 Oldcastle Precast, Inc.®

REVISIONS:



MHS
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
757-597-6006
TYPE No. 14571 TDAE - DR4525

CONSTRUCTION DETAILS VI
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP

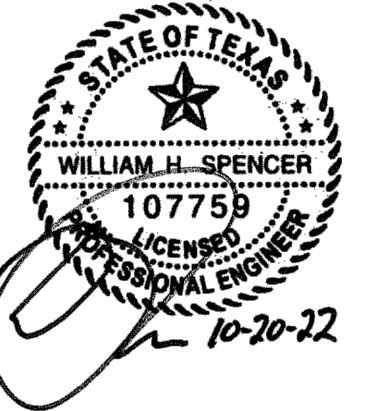
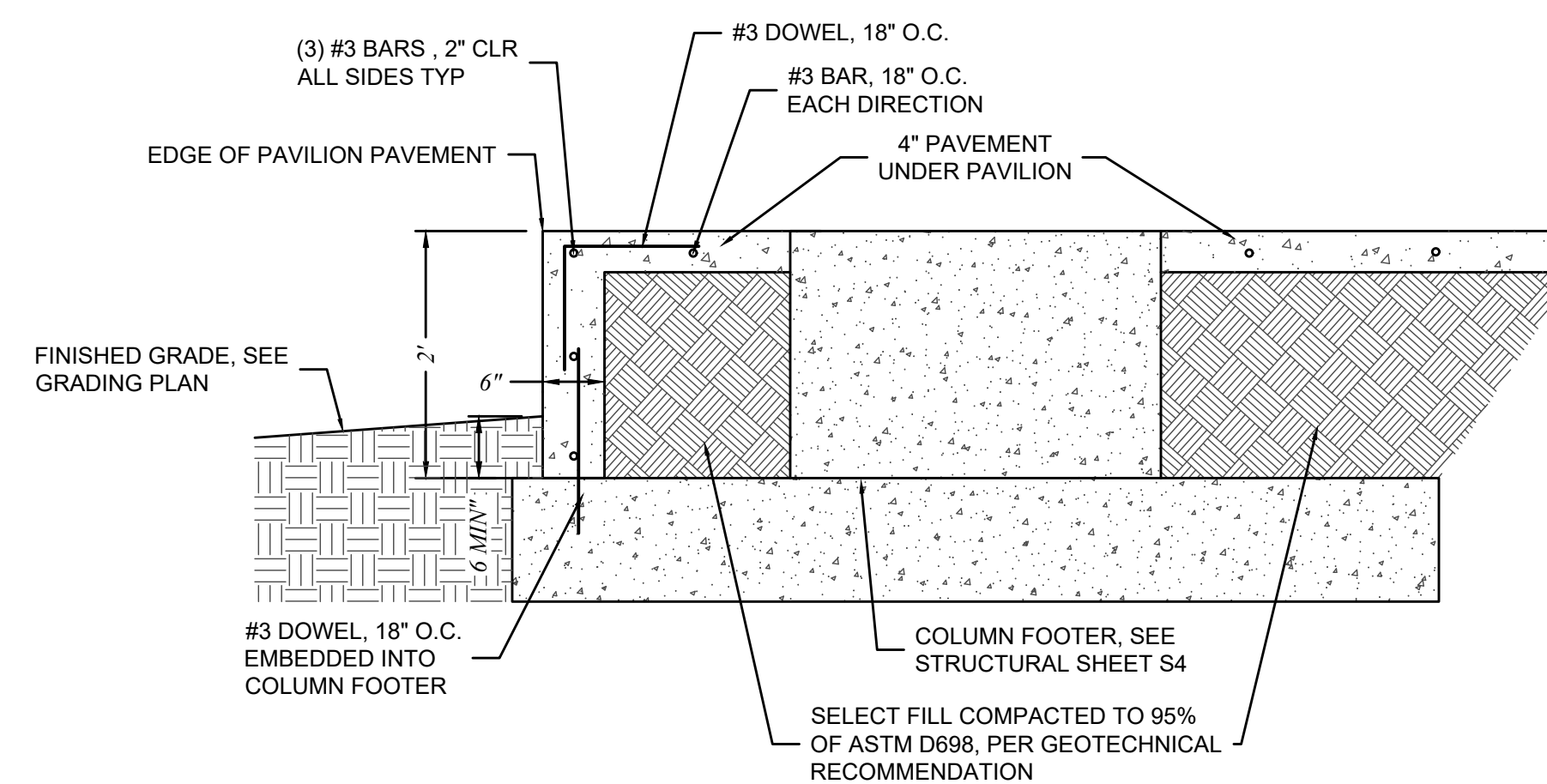
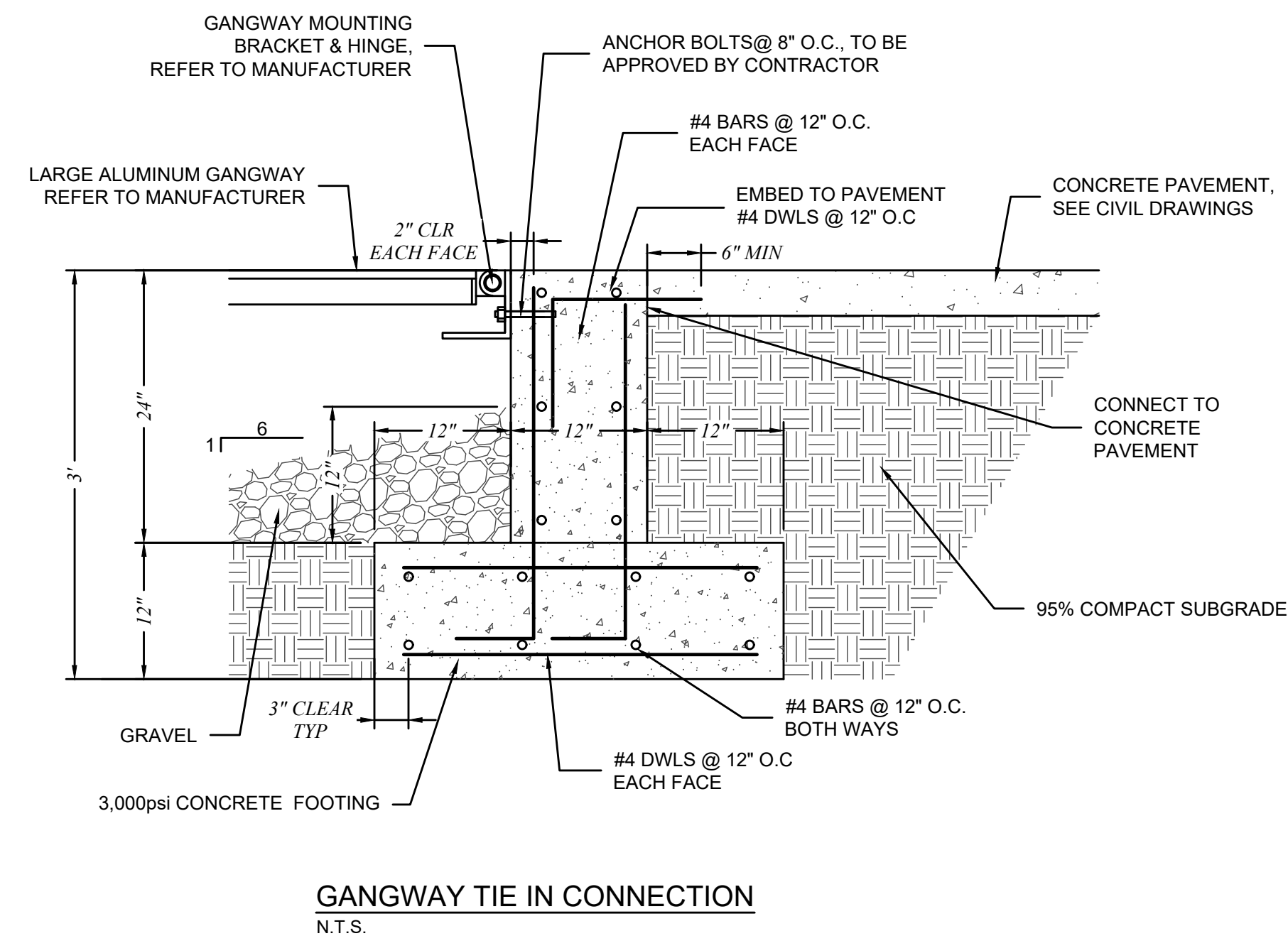
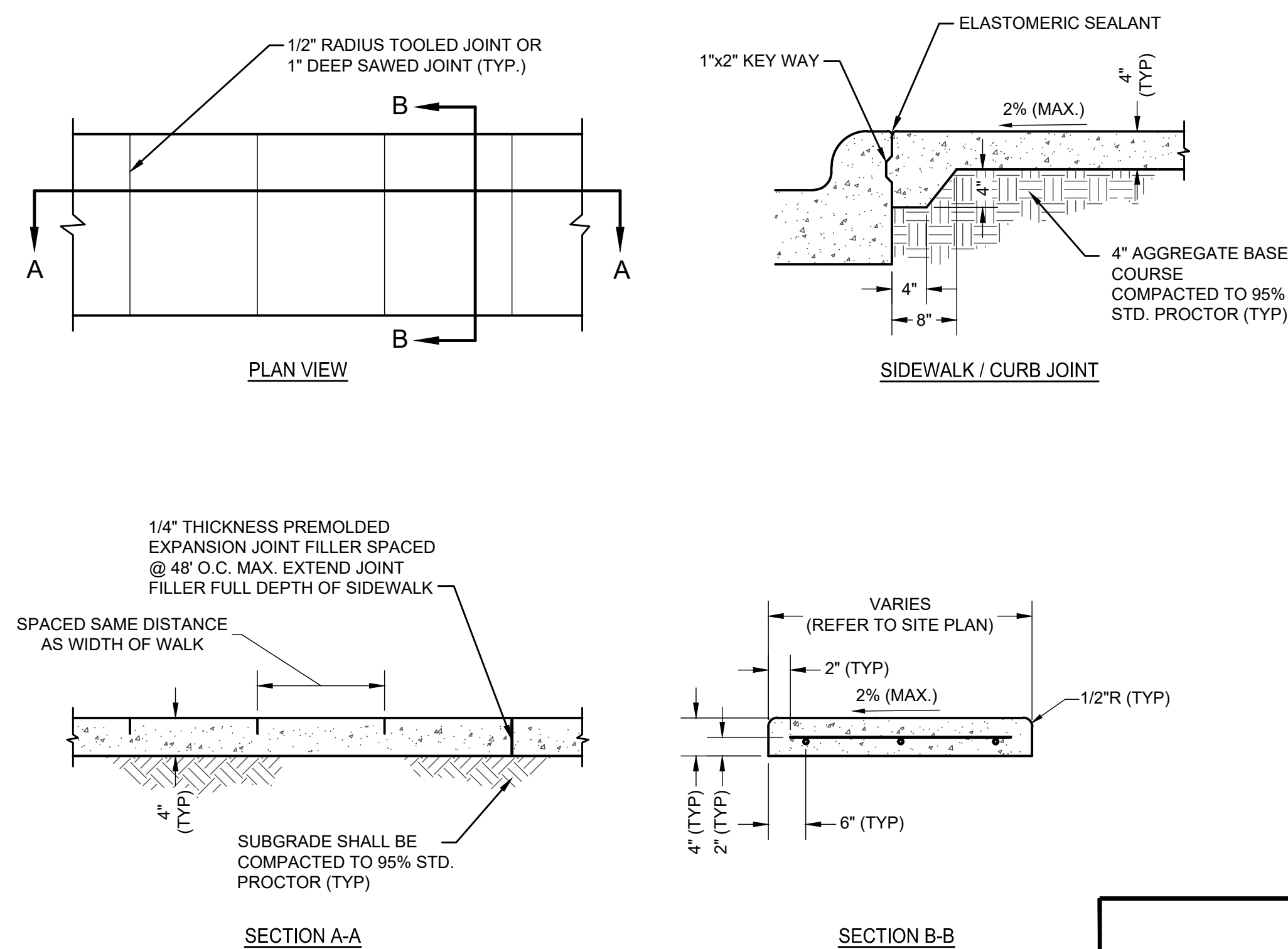
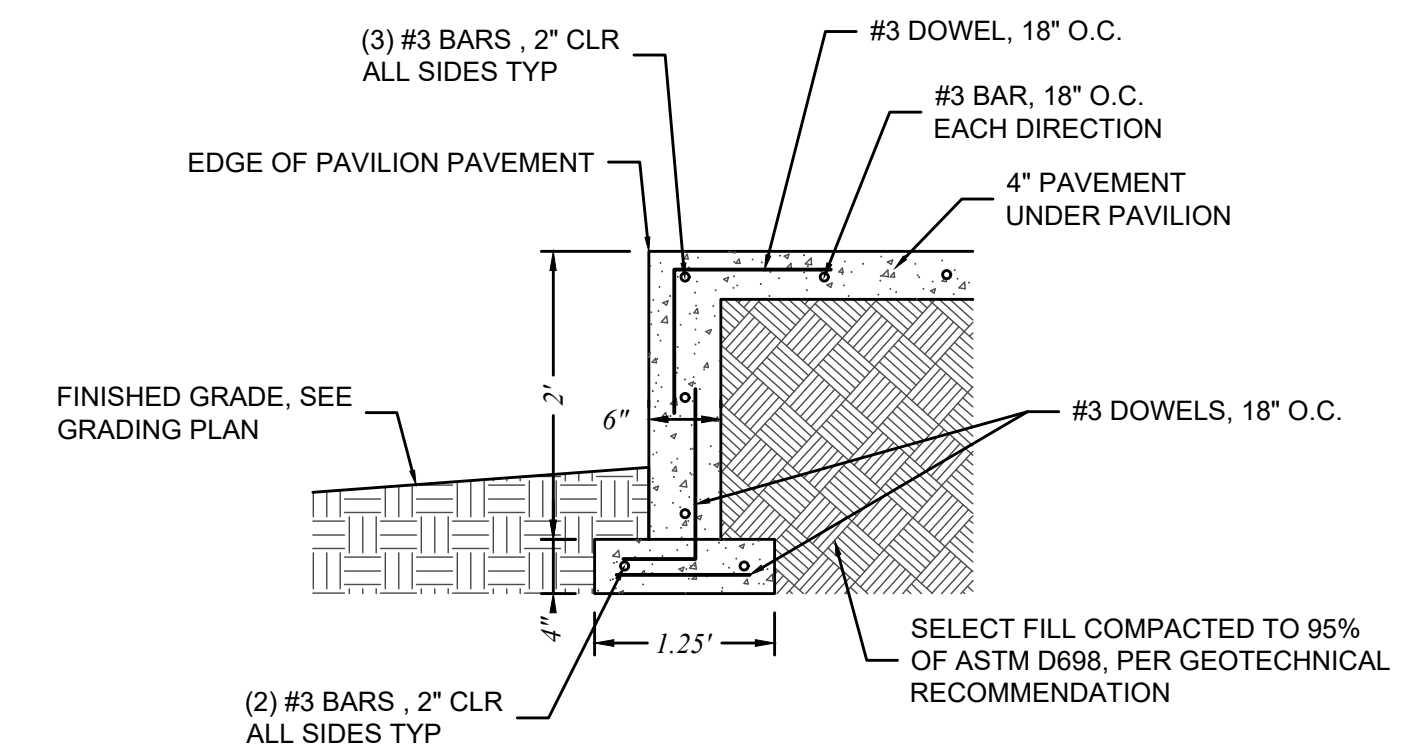
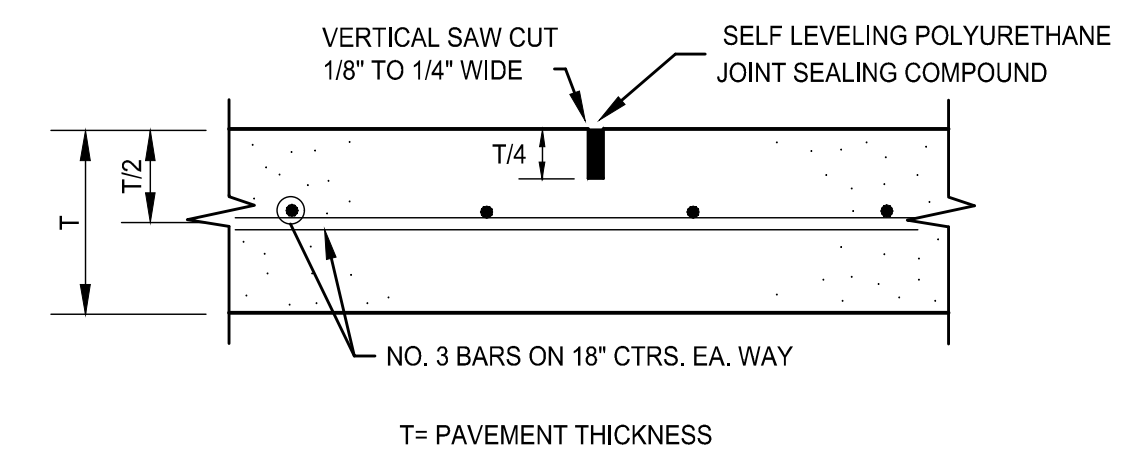
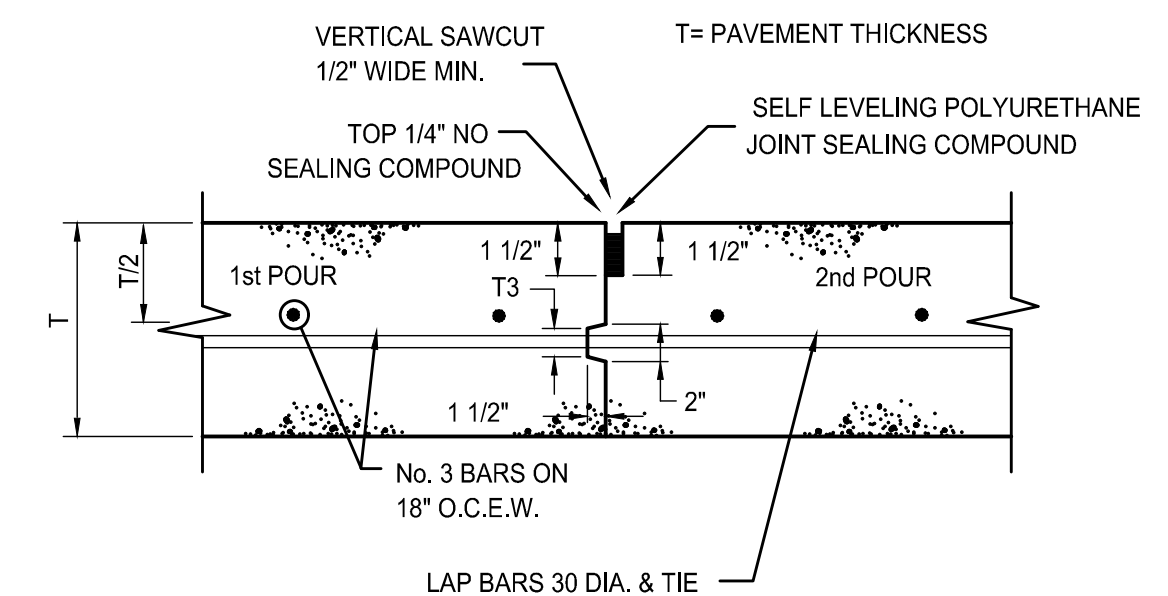
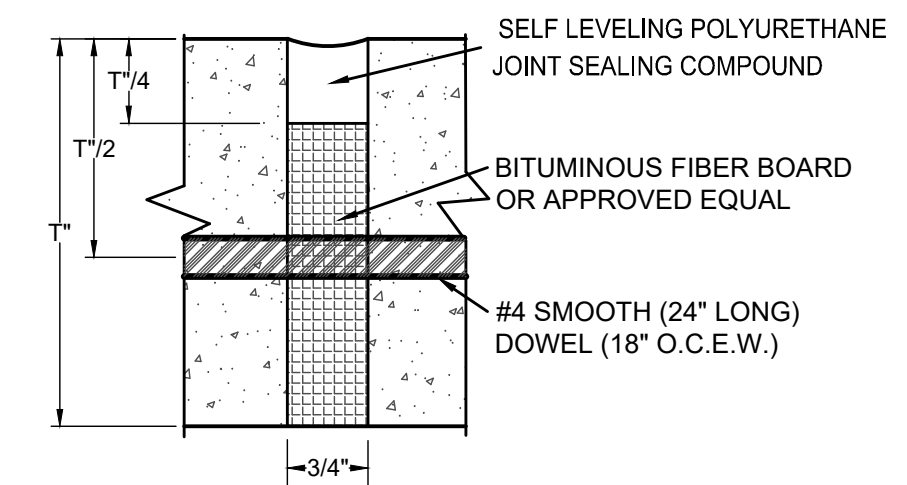
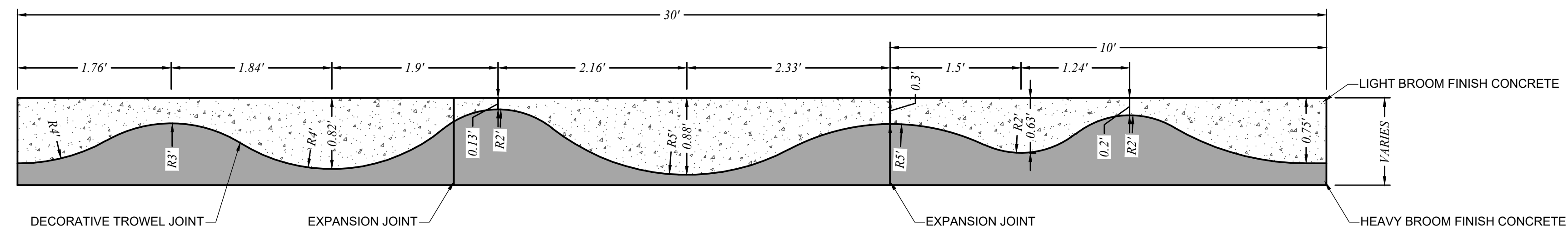
CHECKED: WHS

DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

C22



CONSTRUCTION DETAILS VII
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP

CHECKED: WHS

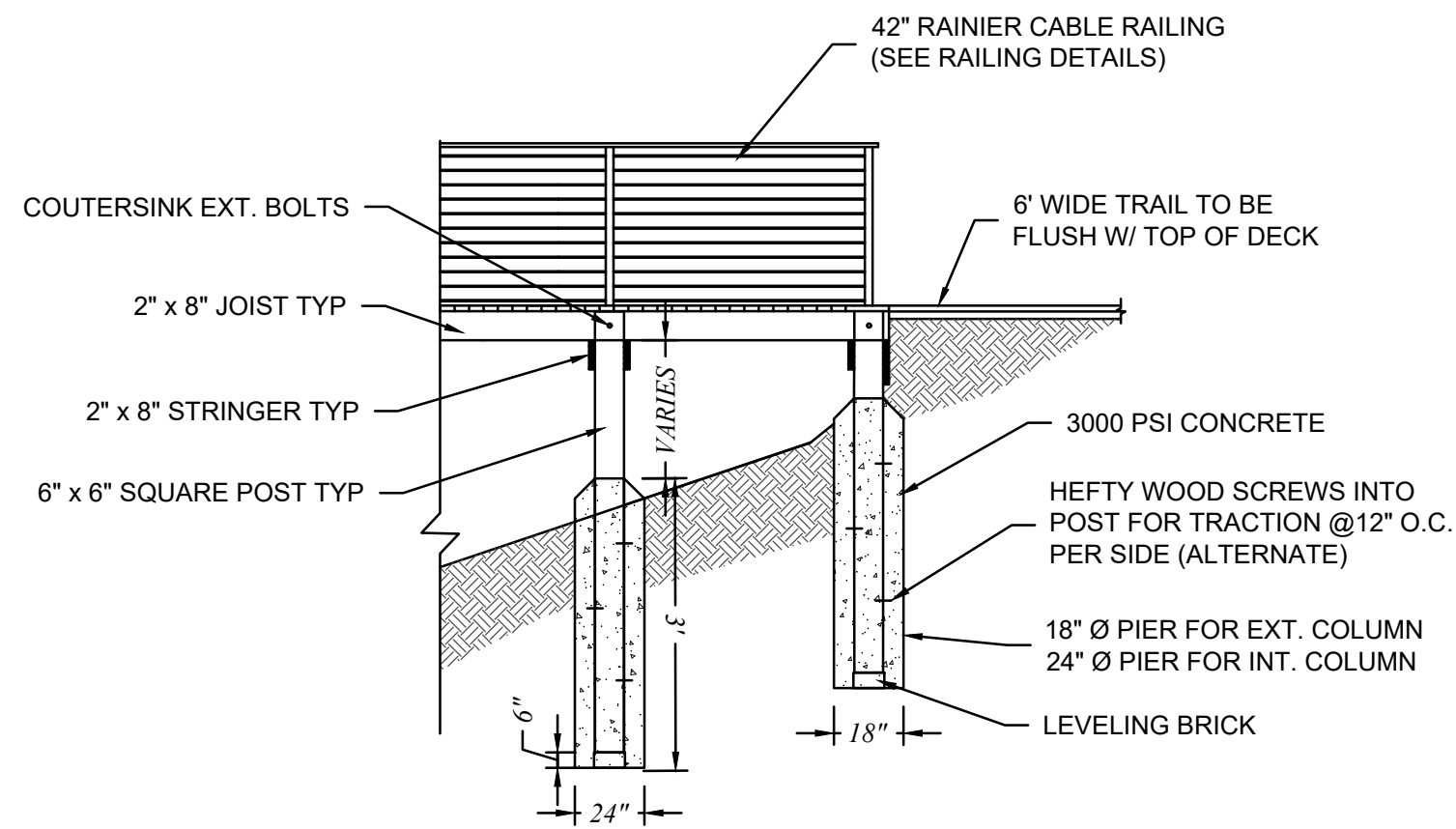
DATE: 10/27/2022

SCALE: AS SHOWN

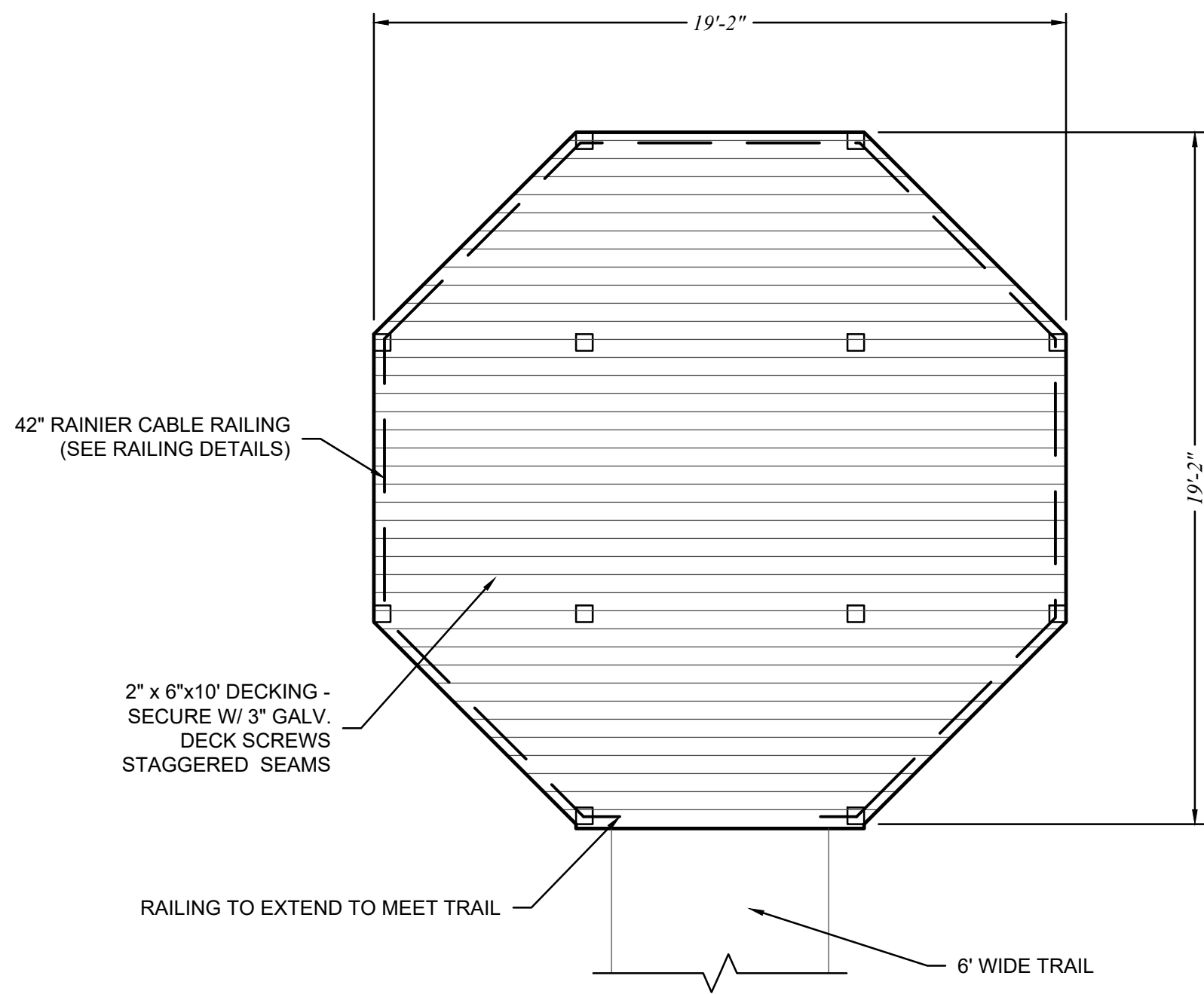
JOB NO.: 21-021

C23

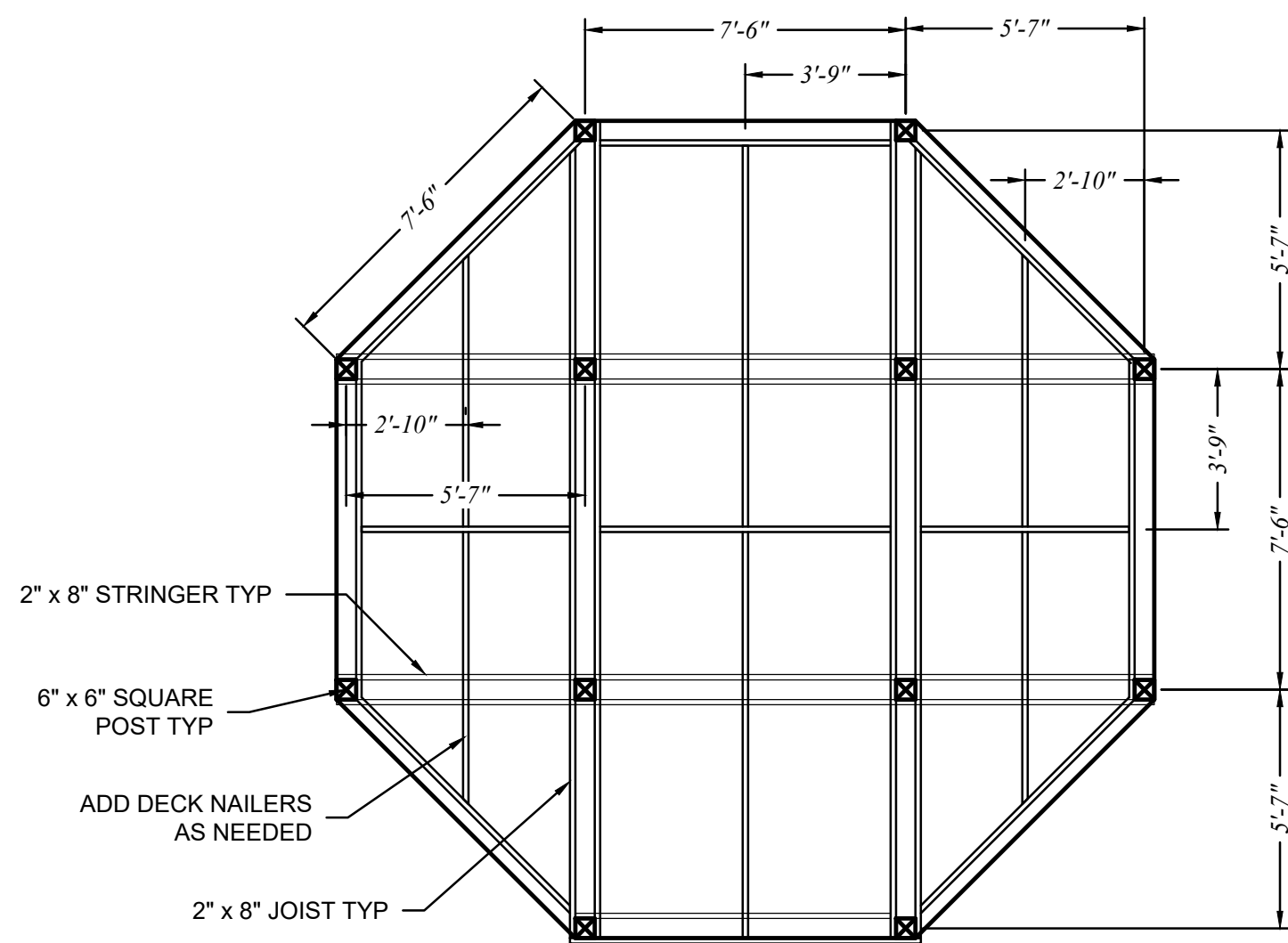
L:\River Authorities\21-021 Pendleton Property Park (Sabine River Authority)\CAD - PHASE 2\03 - Production\CONSTRUCTION DETAILS II.dwg



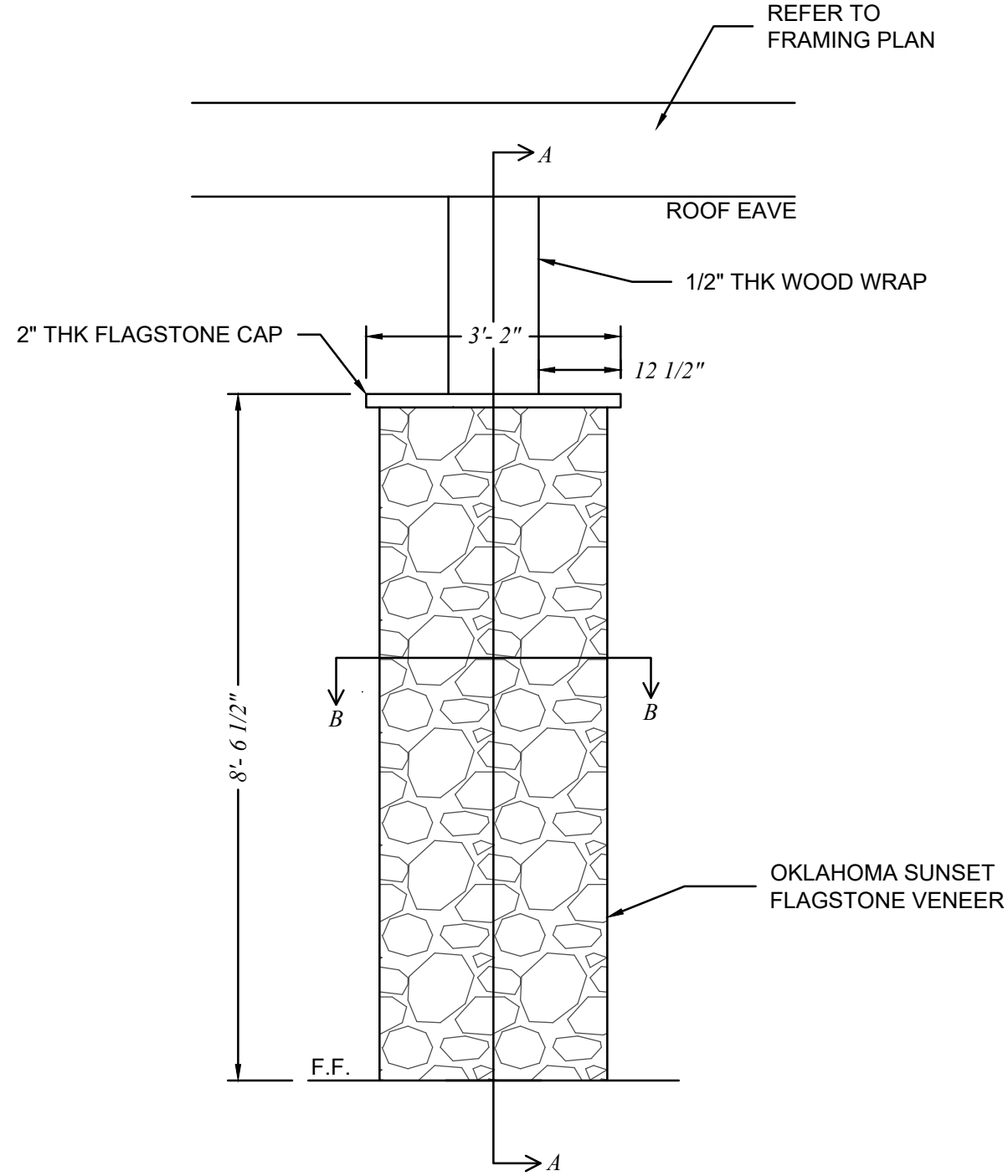
OVERLOOK SIDE ELEVATION
(ALTERNATE BID ITEM)
N.T.S.



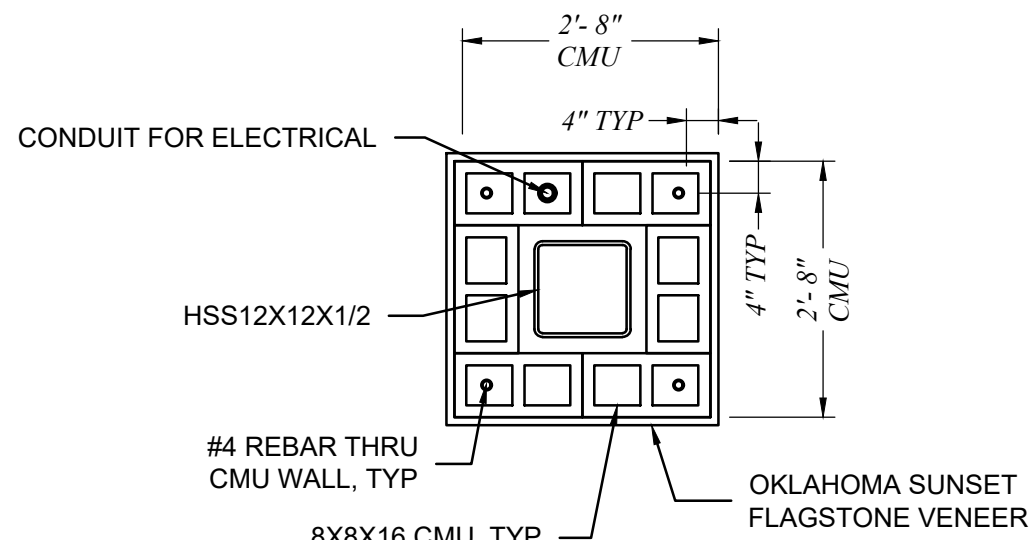
OVERLOOK DETAIL - DECKING
(ALTERNATE BID ITEM)
N.T.S.



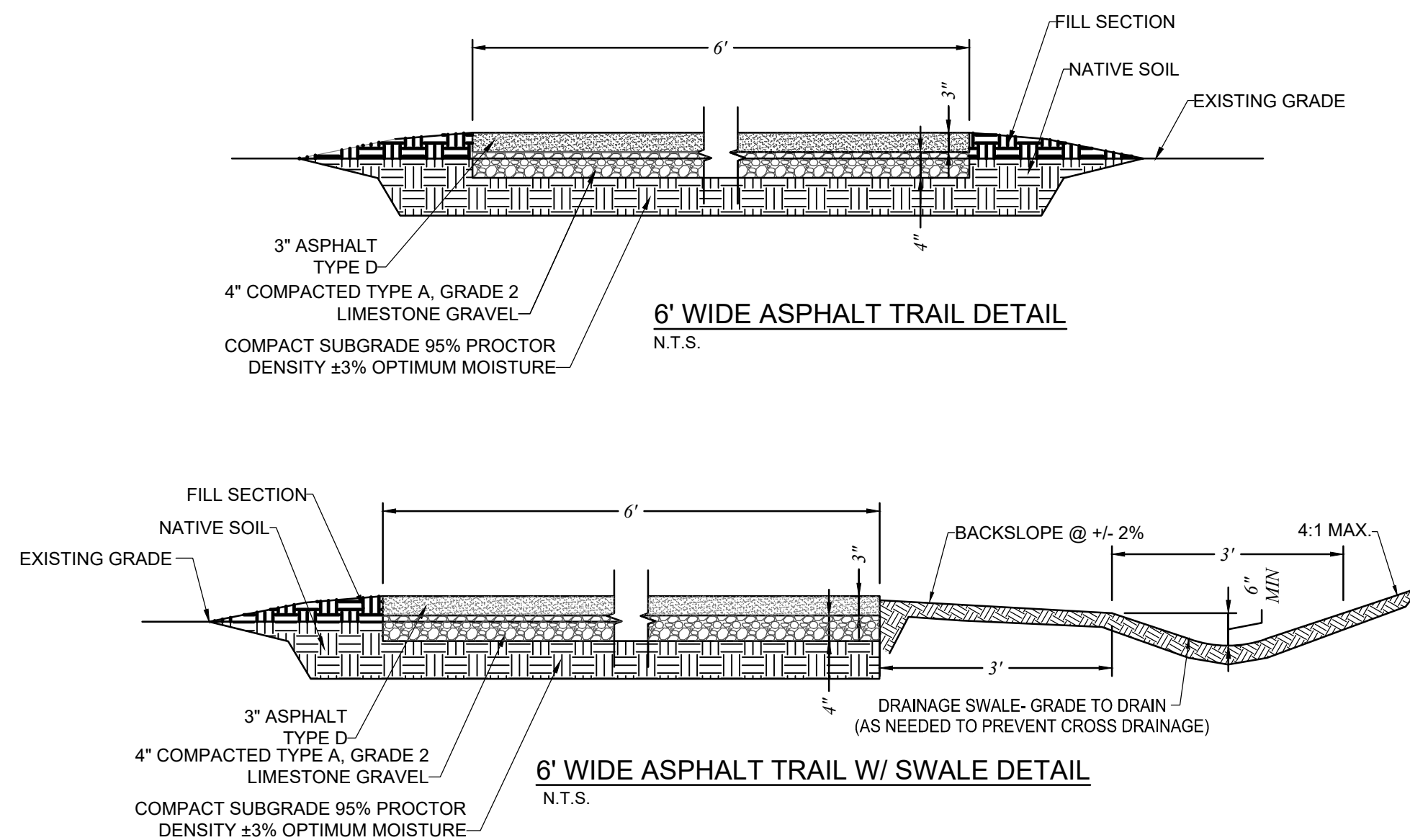
OVERLOOK FRAMING DETAIL
(ALTERNATE BID ITEM)
N.T.S.



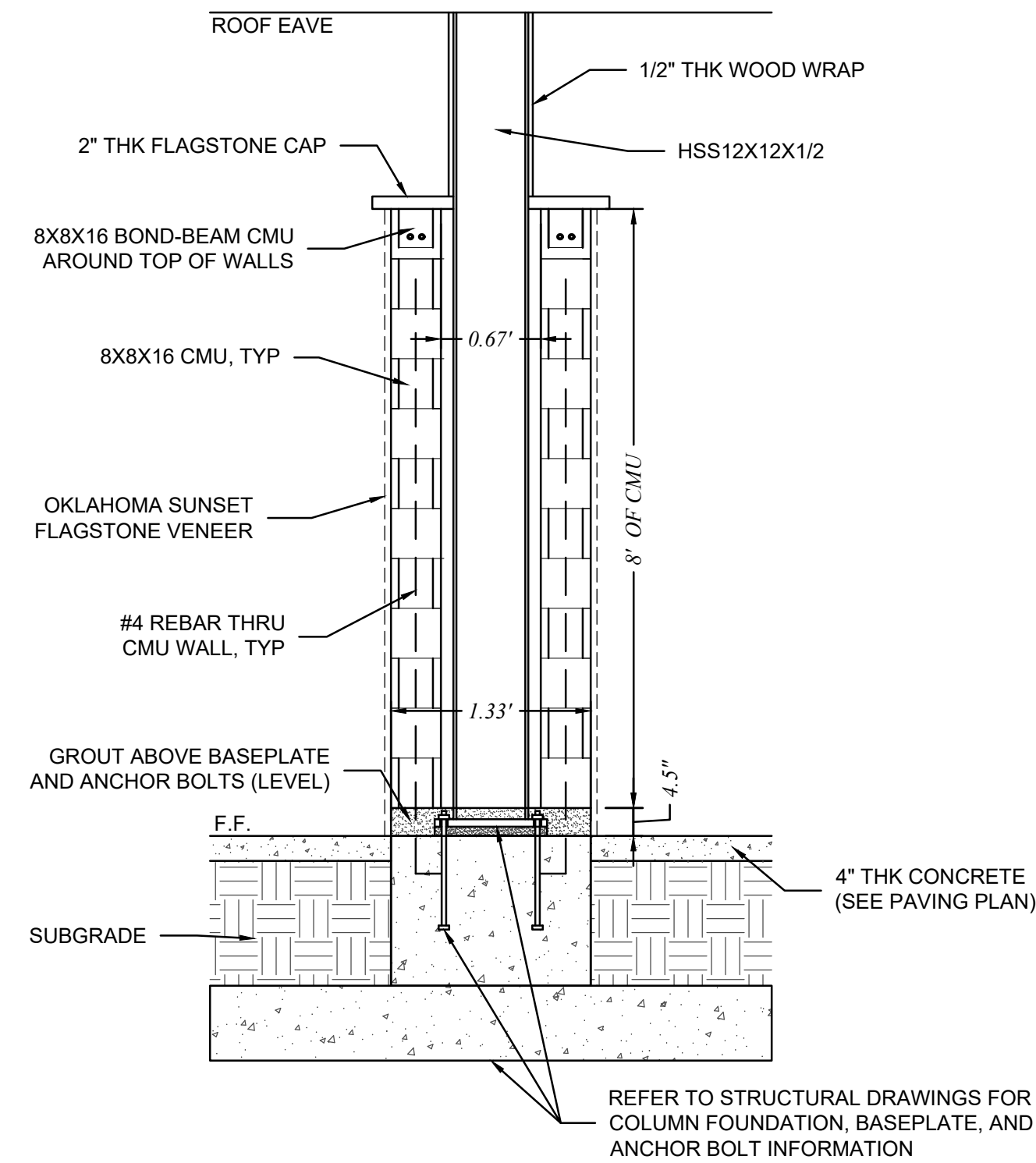
LARGE PAVILLION COLUMN - FRONT ELEVATION
N.T.S.



LARGE PAVILLION COLUMN - SECTION B-B
N.T.S.

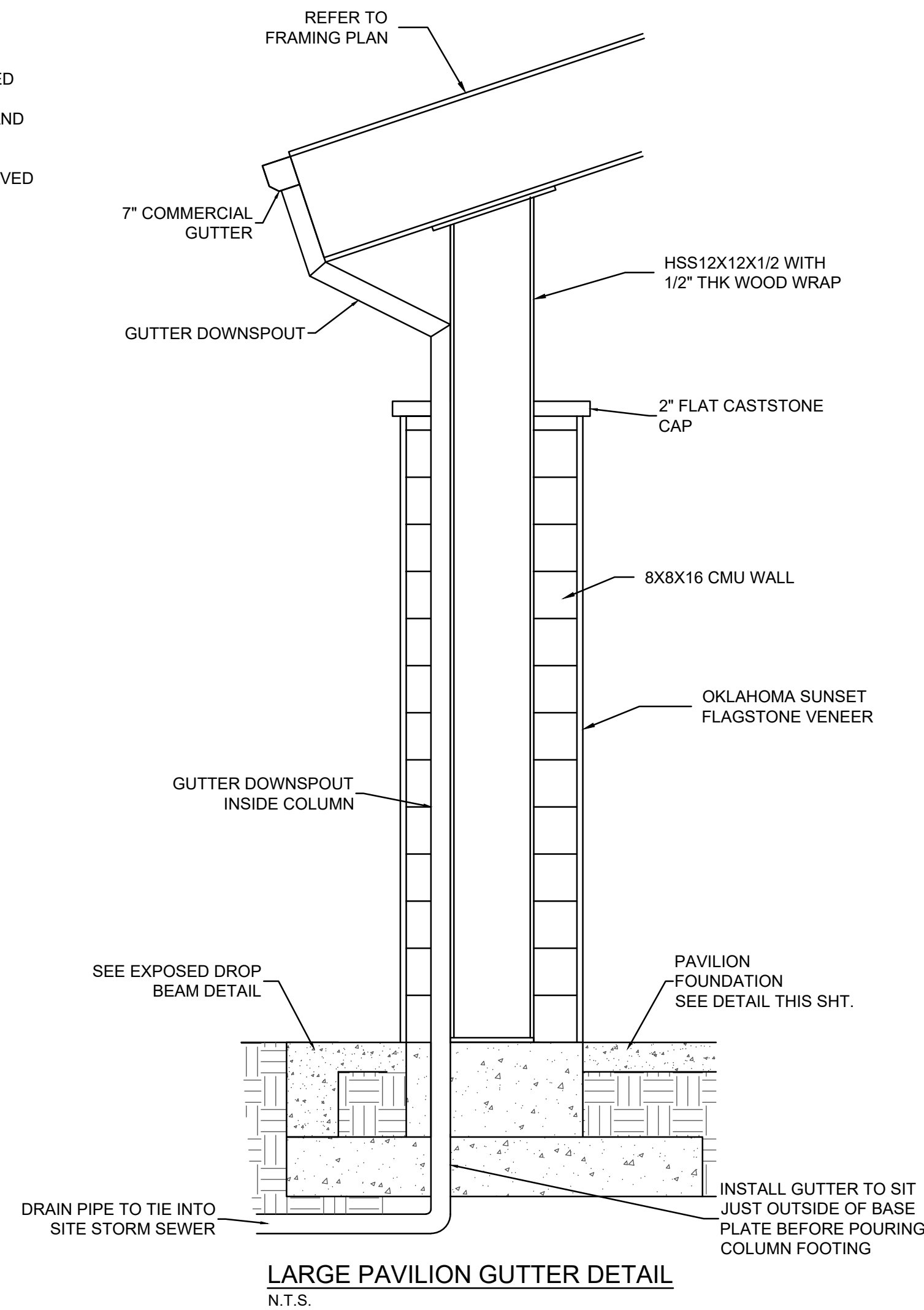


NOTE: GRADE TRAIL CORRIDOR TO MEET REQUIRED SLOPES. SHAPE REQUIRED DRAINAGE SWALE ON UPHILL SIDE TO PREVENT CROSS DRAINAGE. EXCAVATE NATIVE SOIL TO A DEPTH OF 3' & 6' WIDTH, COMPACT AS INDICATED, ADD LIMESTONE GRAVEL, COMPACT, AND PLACE ASPHALT AS TRAIL SURFACE. USE NATIVE SOIL TO BRING OUTSIDE EDGES OF TRAIL FLUSH WITH TOP OF ASPHALT TREAD. FEATHER OUT AS INDICATED. CROSS SLOPE OF TRAIL TO BE $\pm 1\%$ WITH TERRAIN BUT NOT TO EXCEED 2%. RUNNING SLOPE OF TRAIL TO BE LESS THAN 5% IN ALL AREAS. FINISHED TREAD SURFACE SHALL BE SMOOTH, STABLE, FIRM, & SLIP RESISTANT.

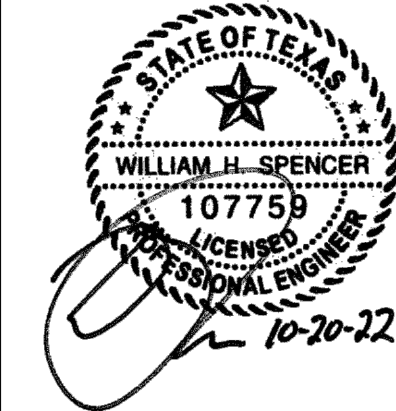


LARGE PAVILLION COLUMN - SECTION A-A
N.T.S.

- NOTES:
1. GUTTER DOWNSPOUTS TO BE PLACED ON EACH COLUMN OF PAVILION.
 2. GUTTERS TO RUN TO FOUNDATION AND TIE INTO STORM SEWER BELOW FOUNDATION.
 3. IF STONE COLUMNS ARE NOT APPROVED BY SRA CONTINUE DOWN SPOUT TO POST



REVISIONS:

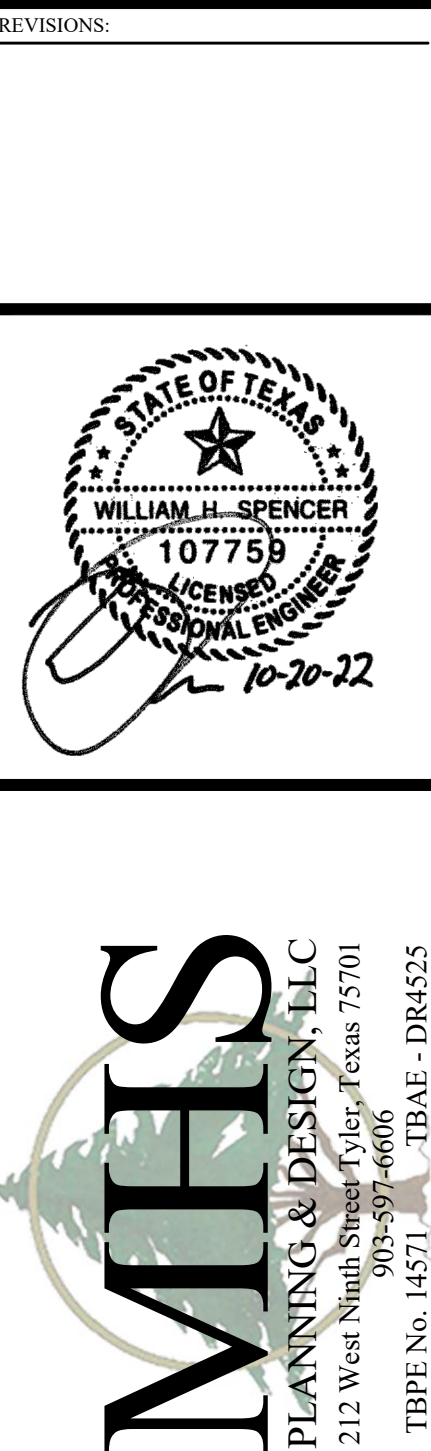
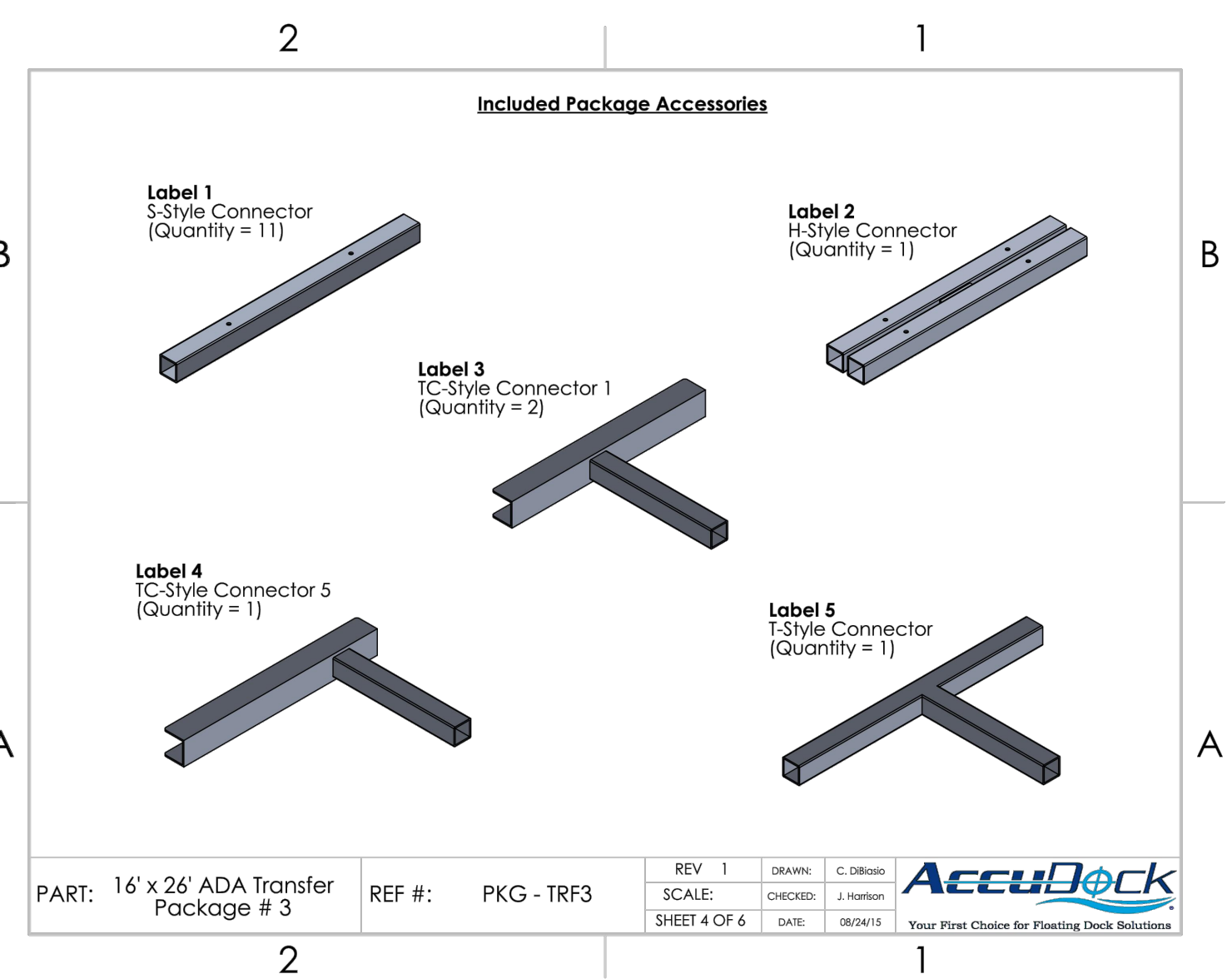
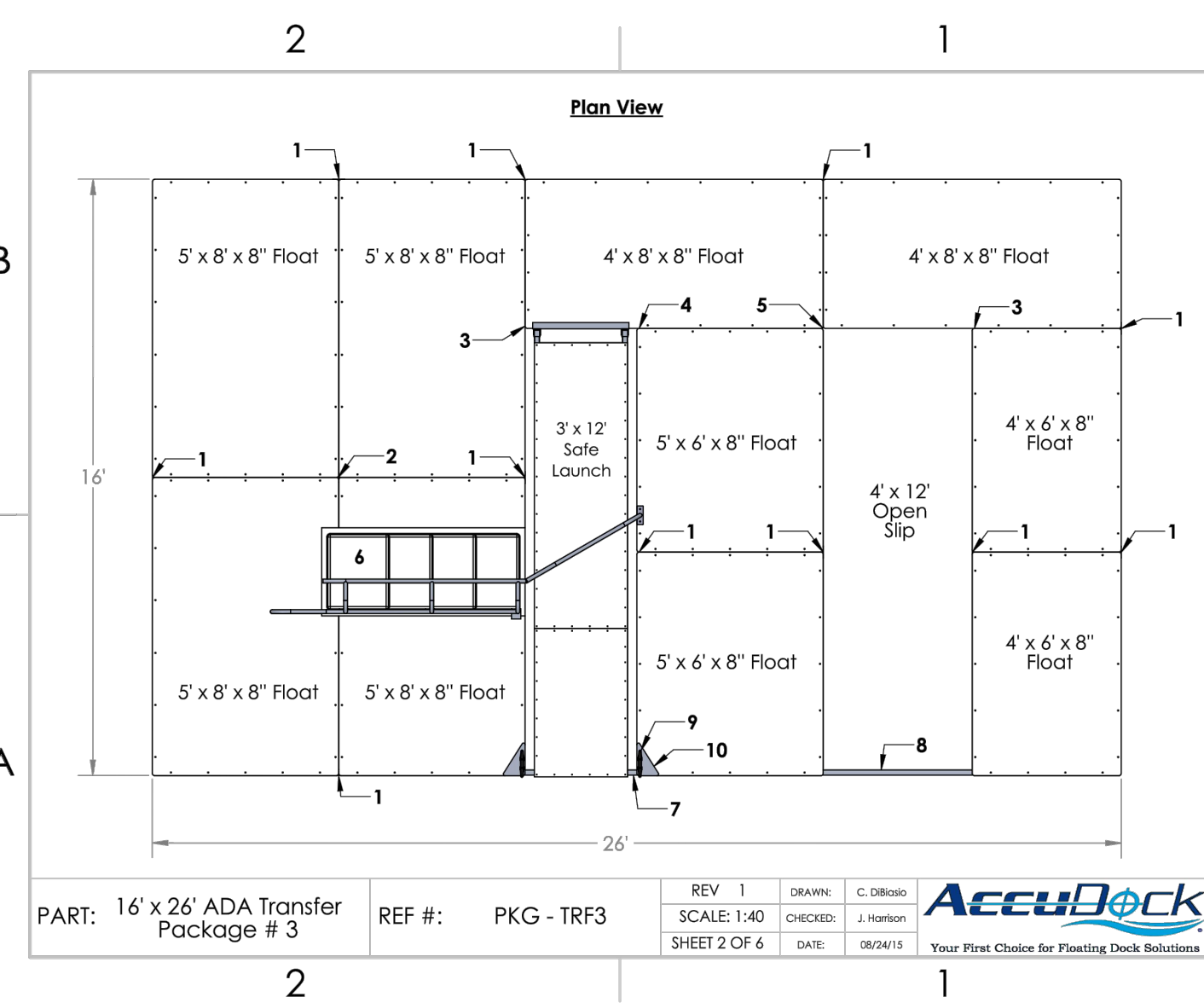
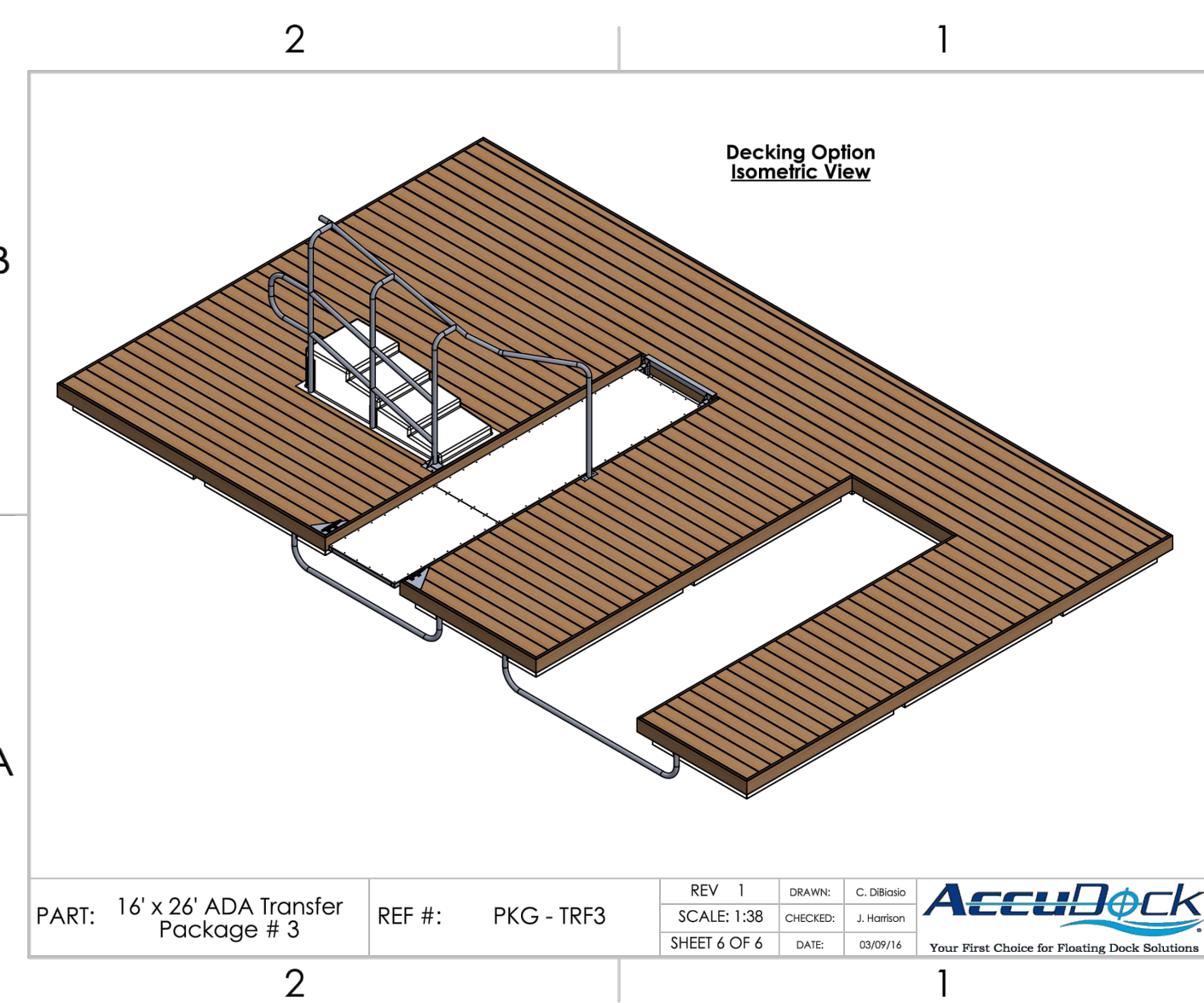
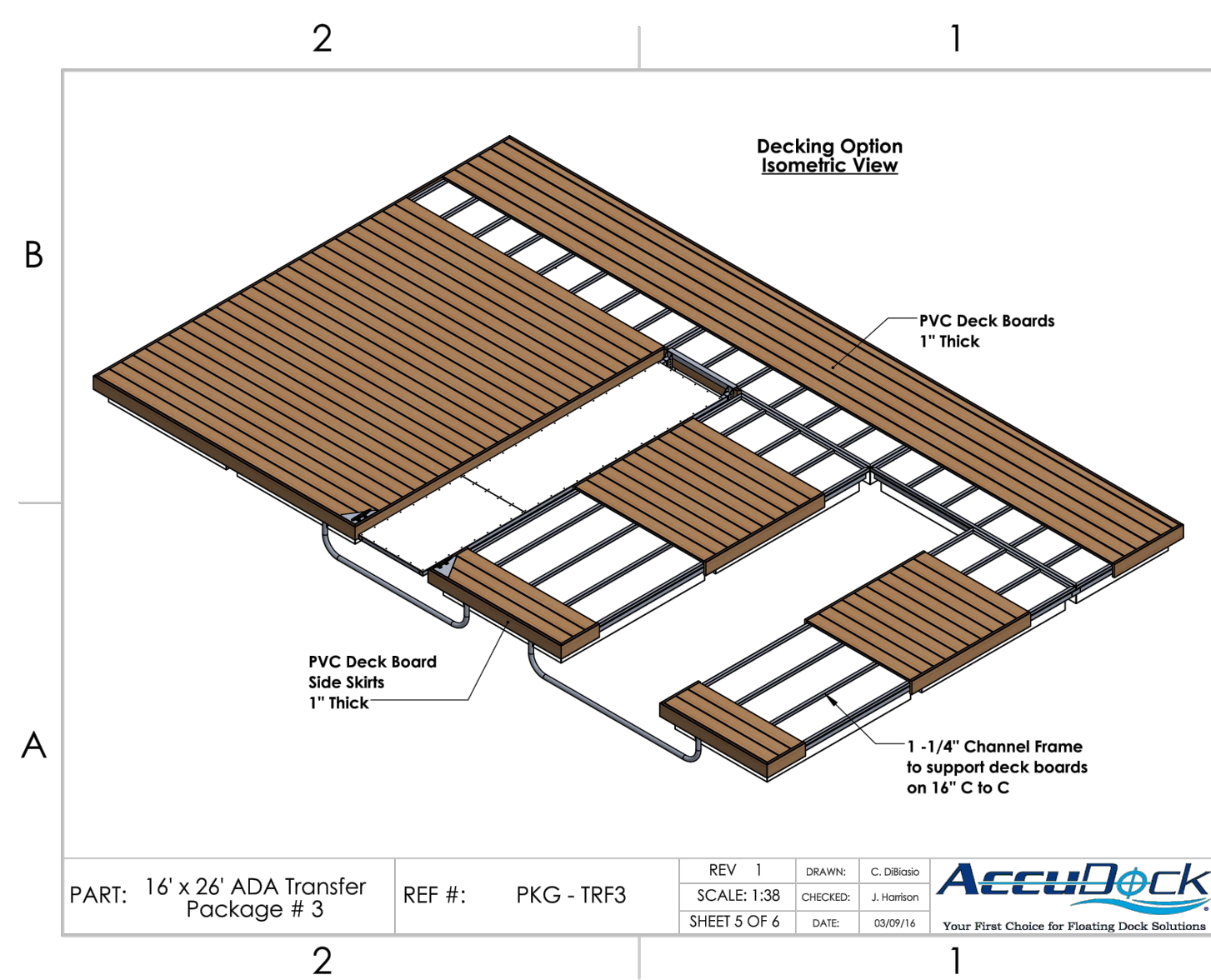
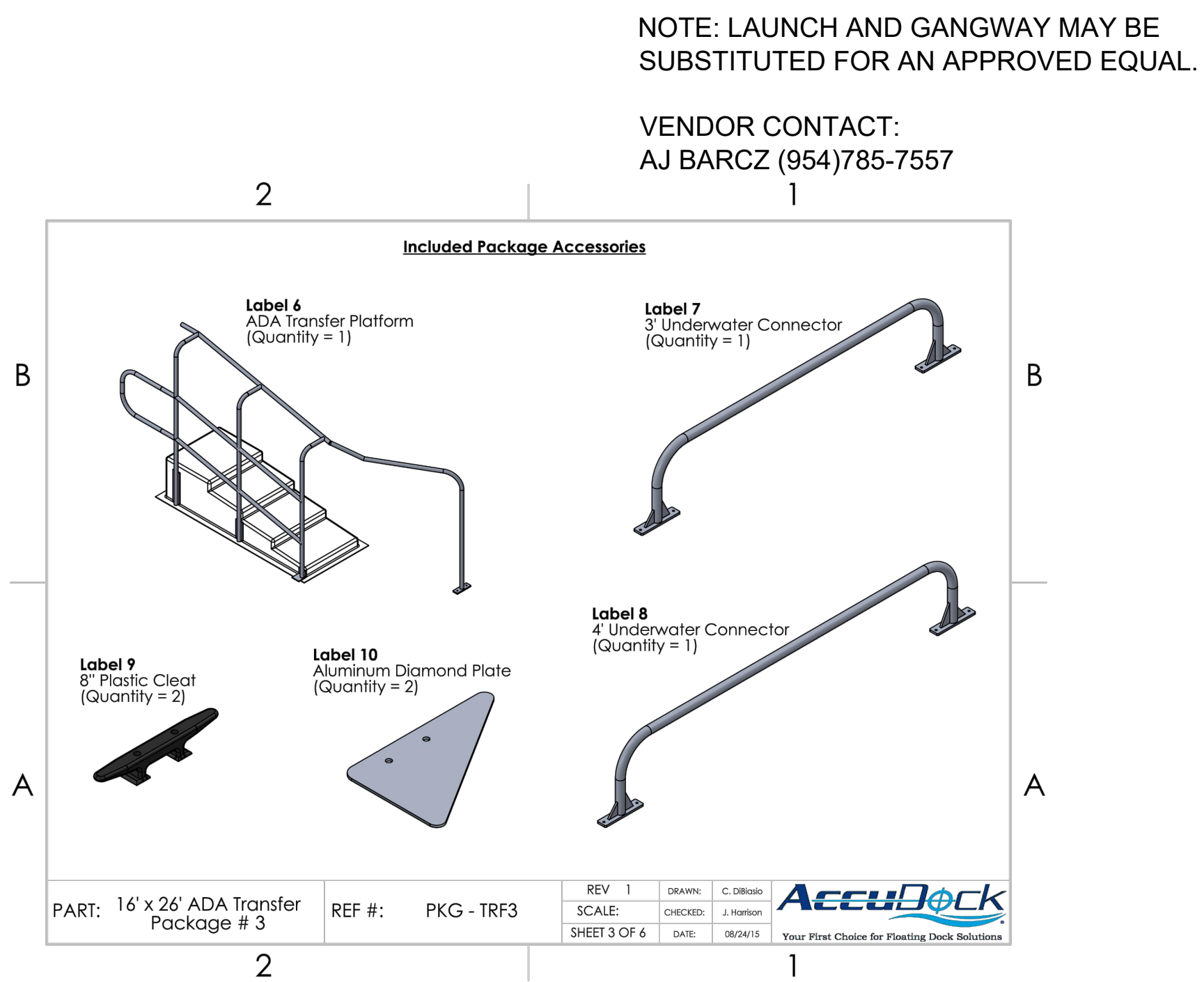
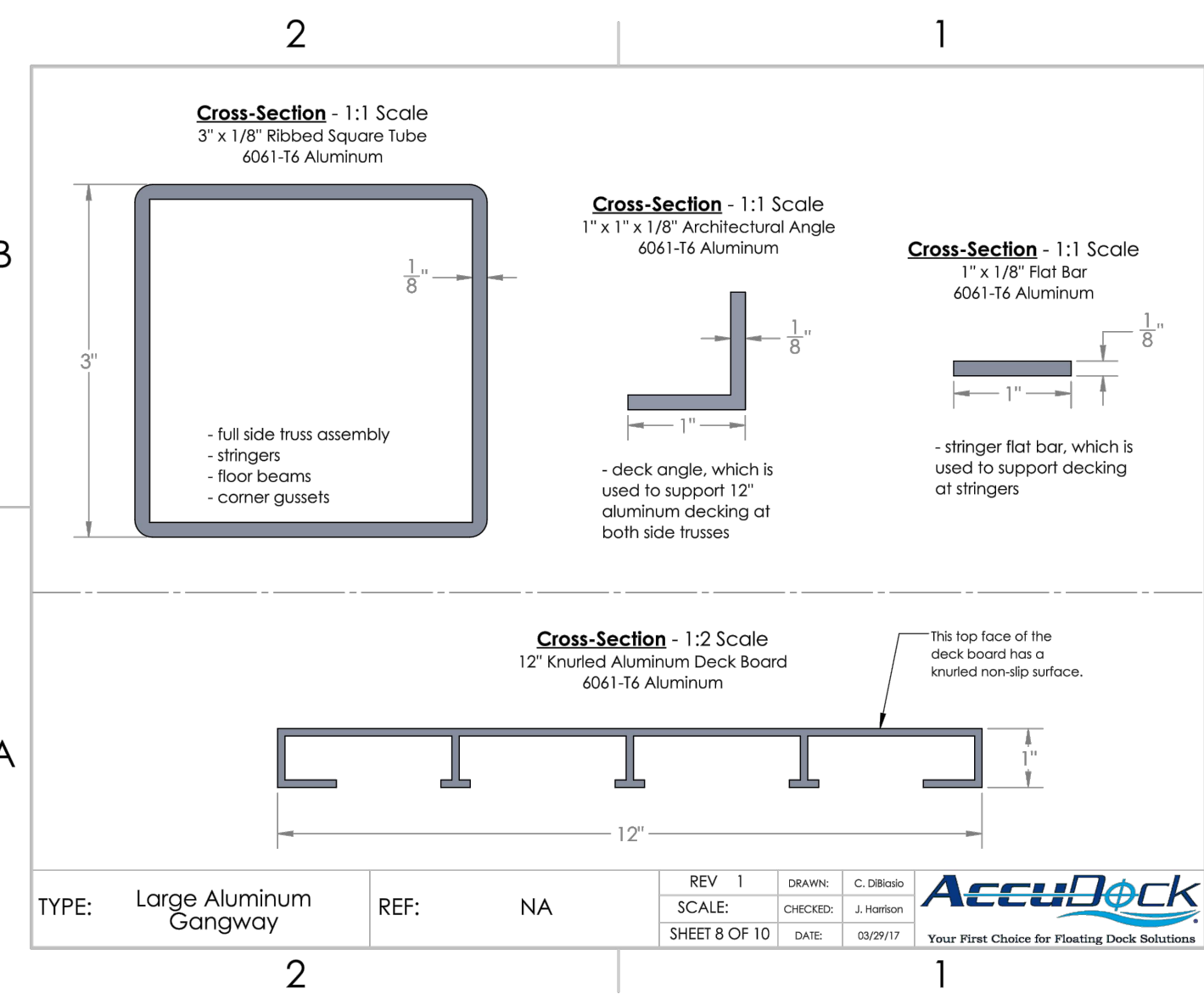
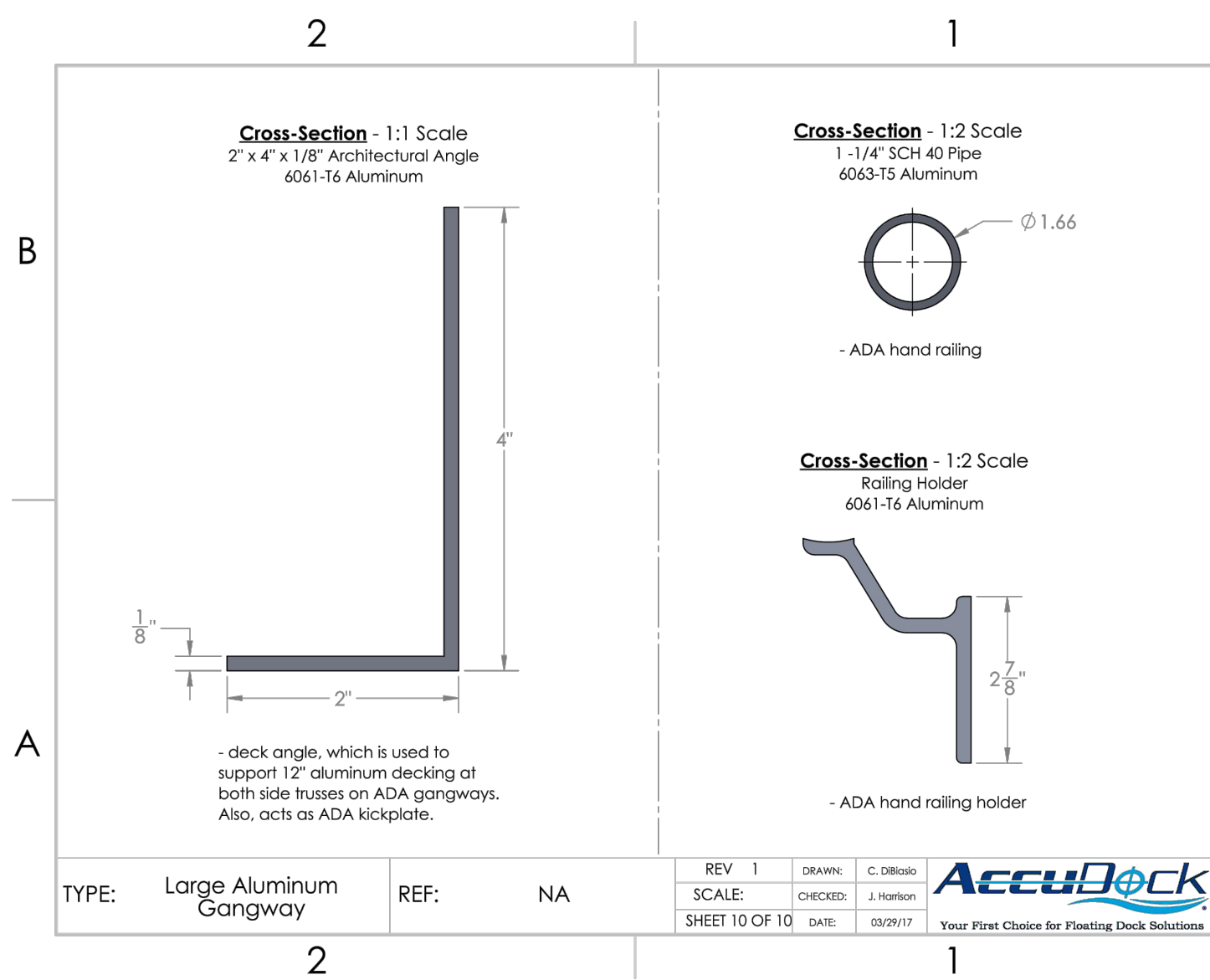
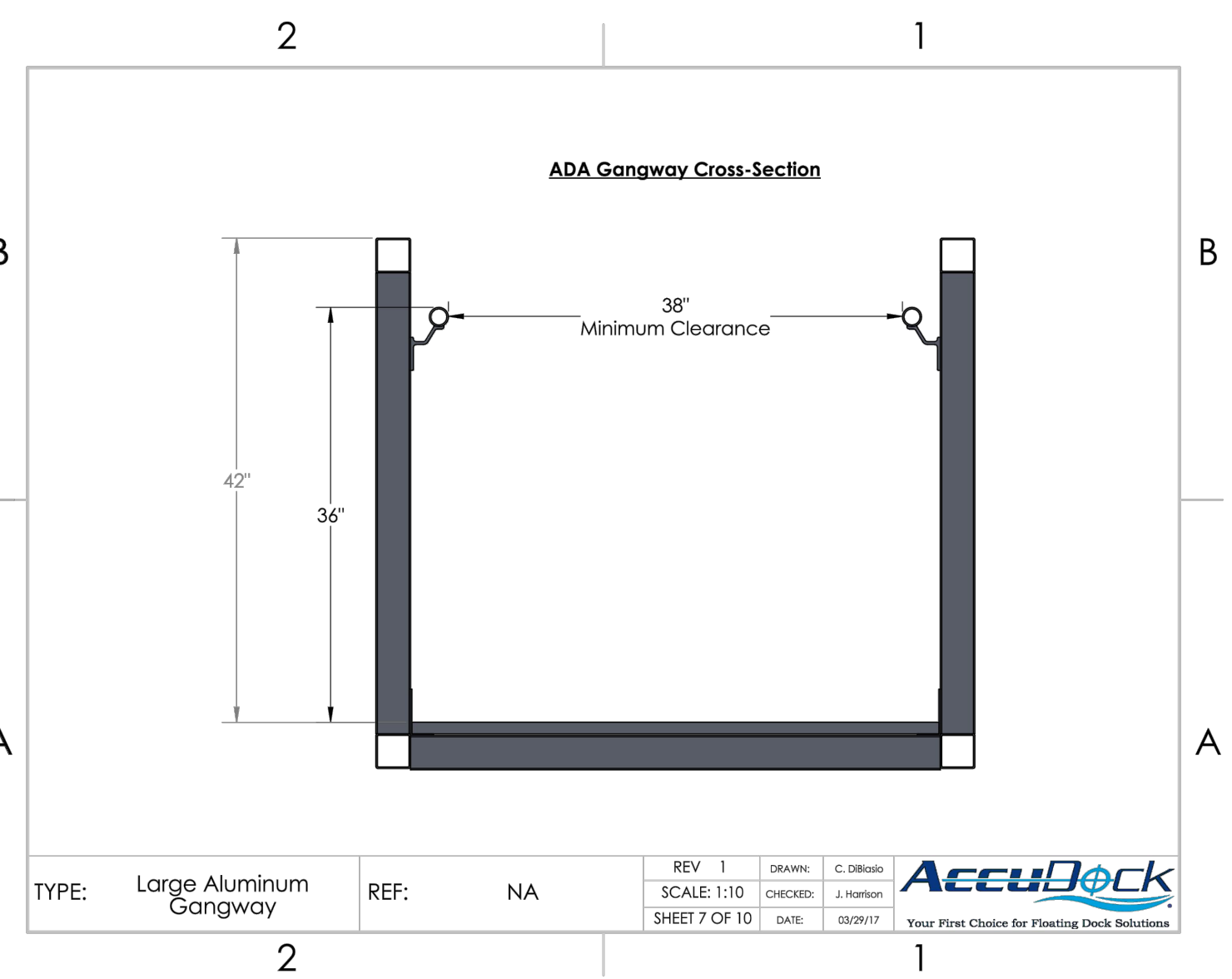
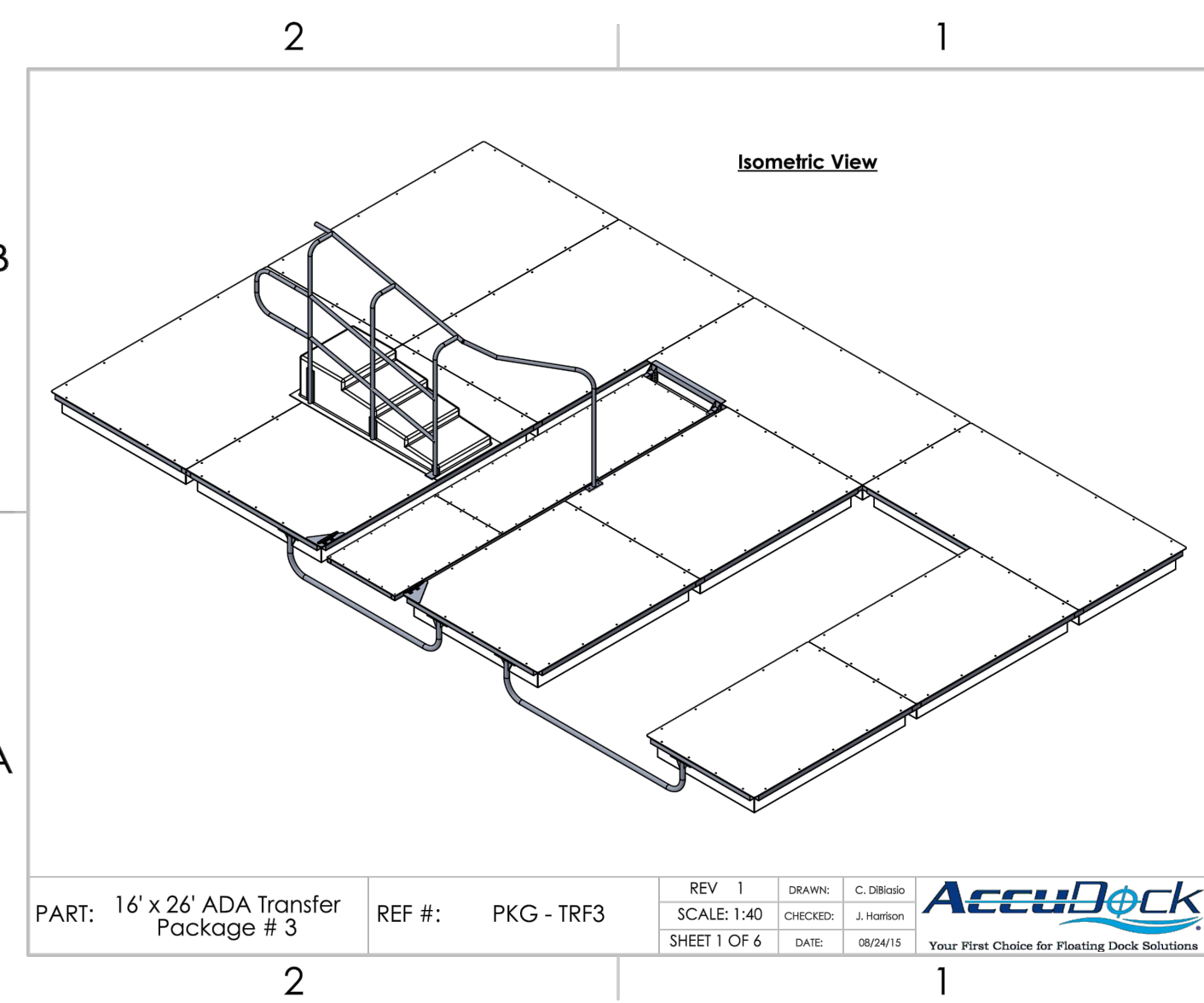
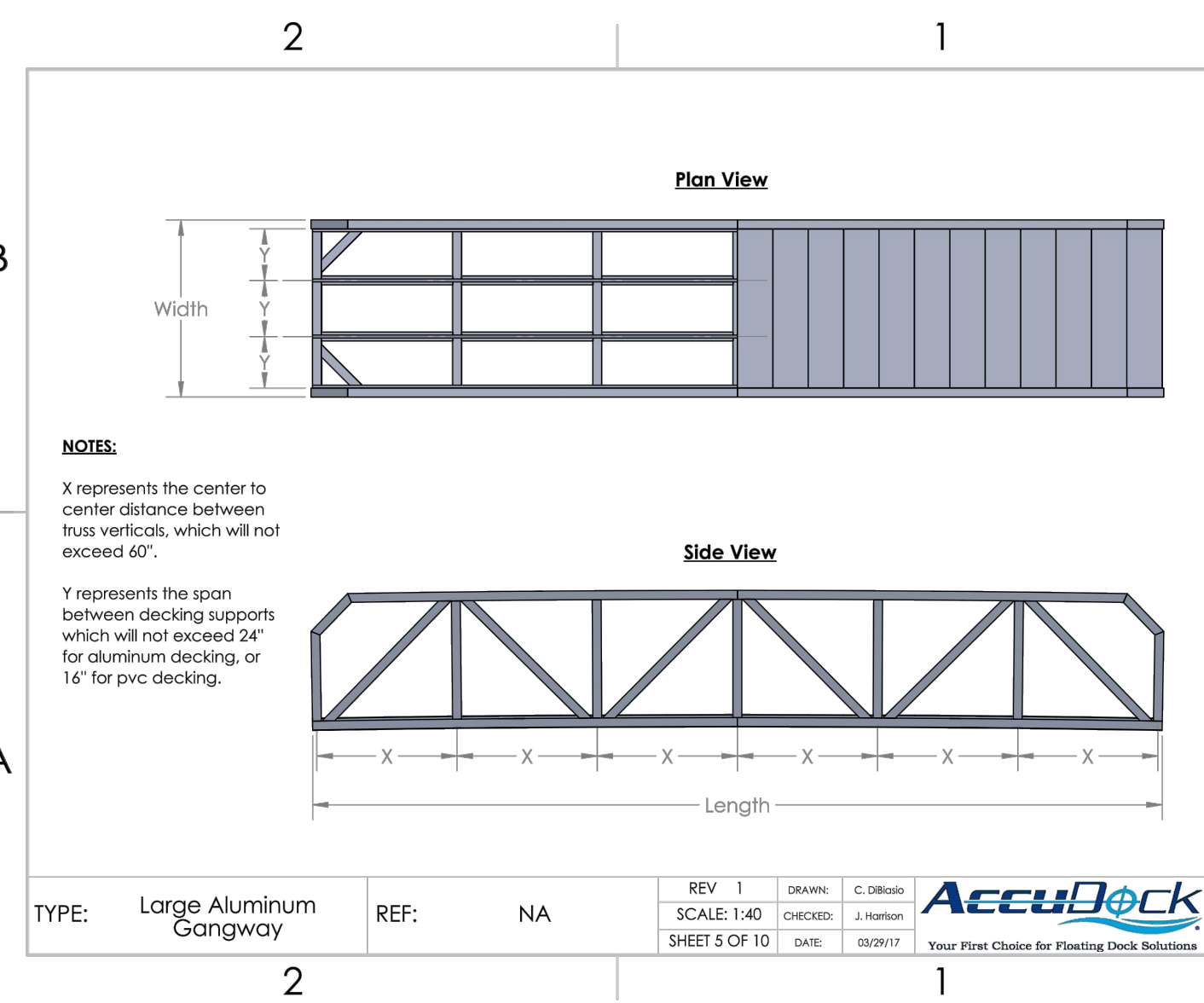
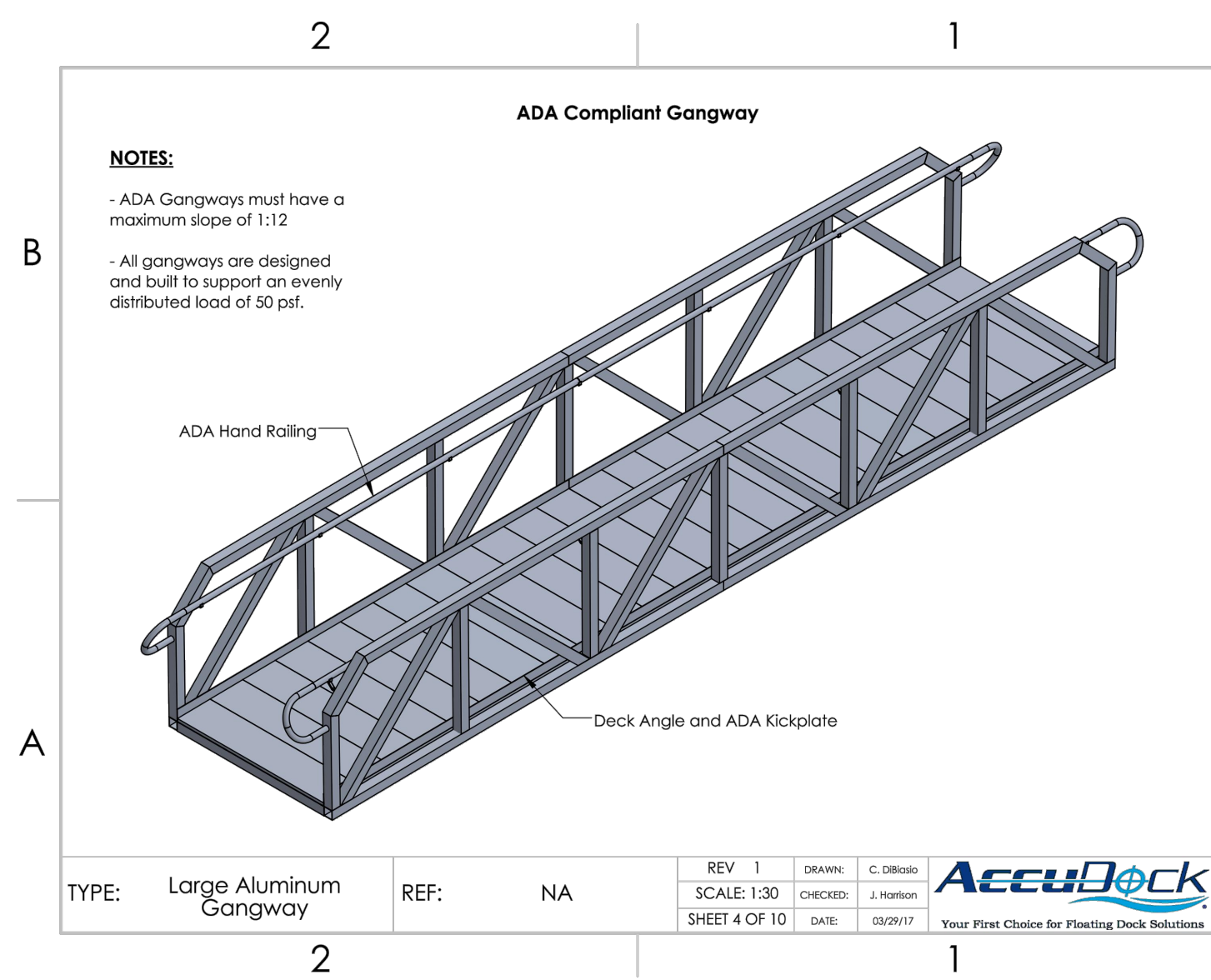


MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, 10th Floor, Texas 75701
754-597-6006
TEPE No. 14571 IDAE - DR4525

CONSTRUCTION DETAILS VIII
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: NSR
CHECKED: WHS
DATE: 10/31/2022
SCALE: AS SHOWN
JOB NO.: 21-021

C24



CONSTRUCTION DETAILS IX

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SMM

CHECKED: WHS

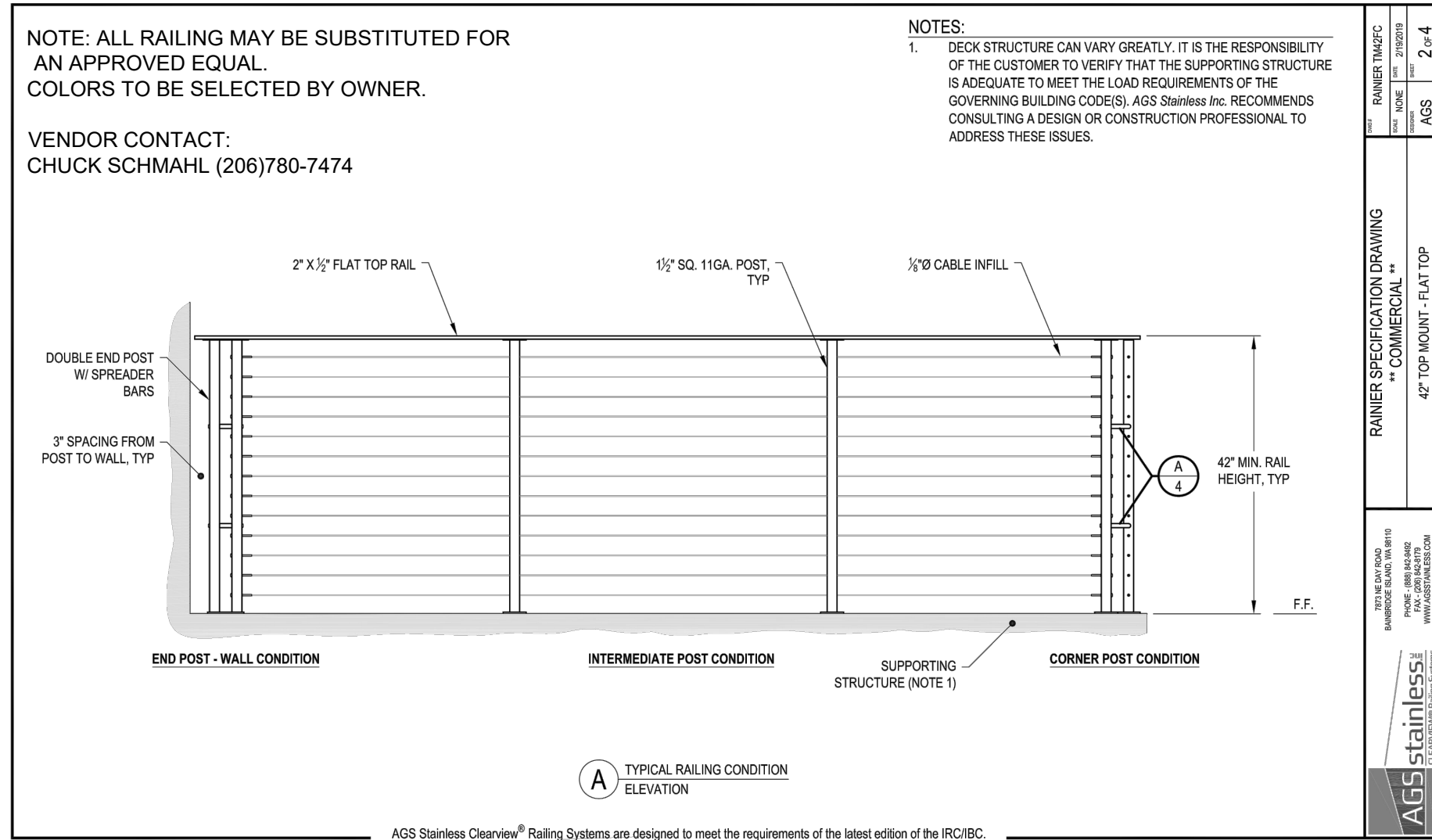
DATE: 10/27/2022

SCALE: AS SHOWN

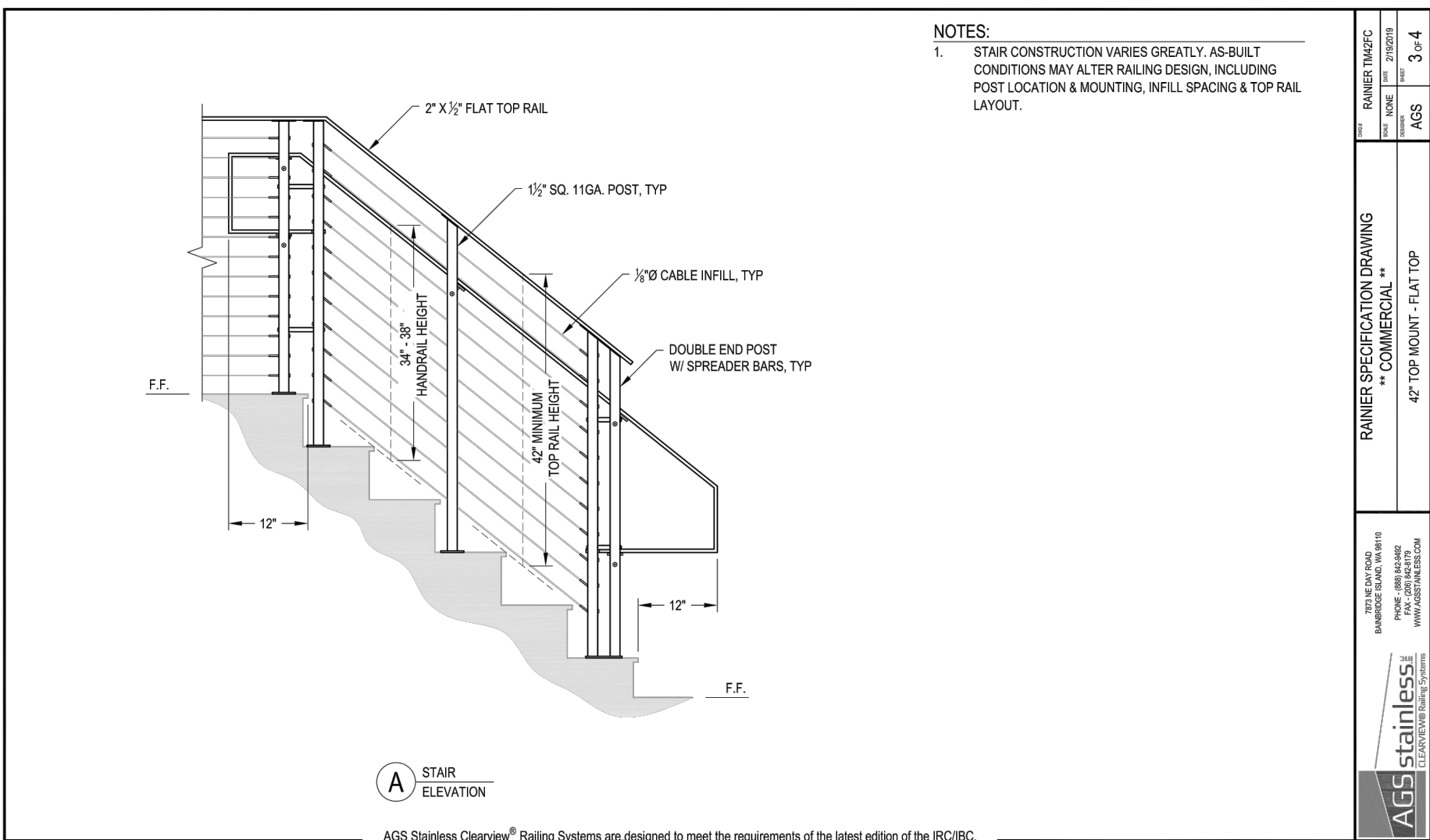
JOB NO.: 21-021

C25

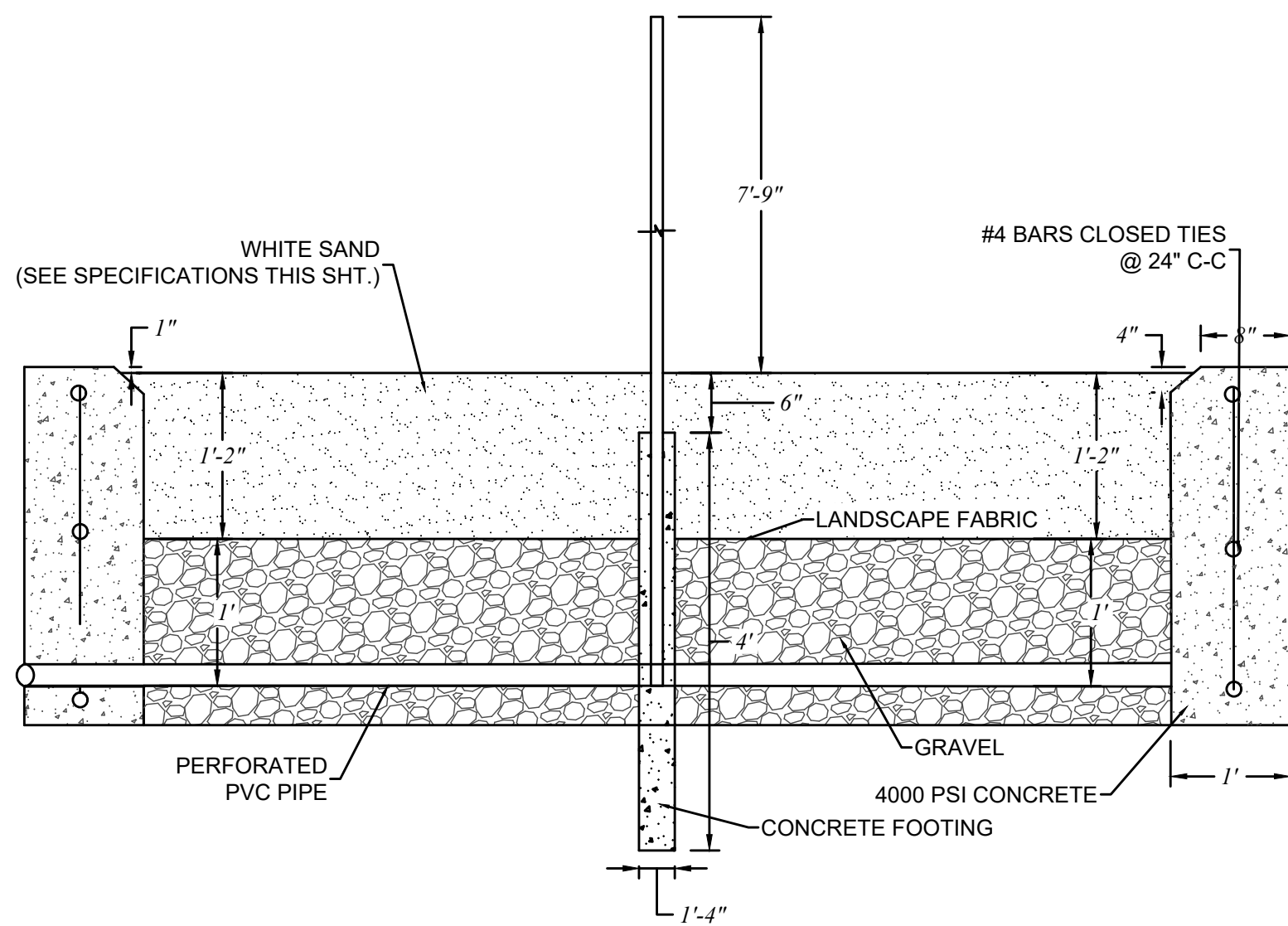
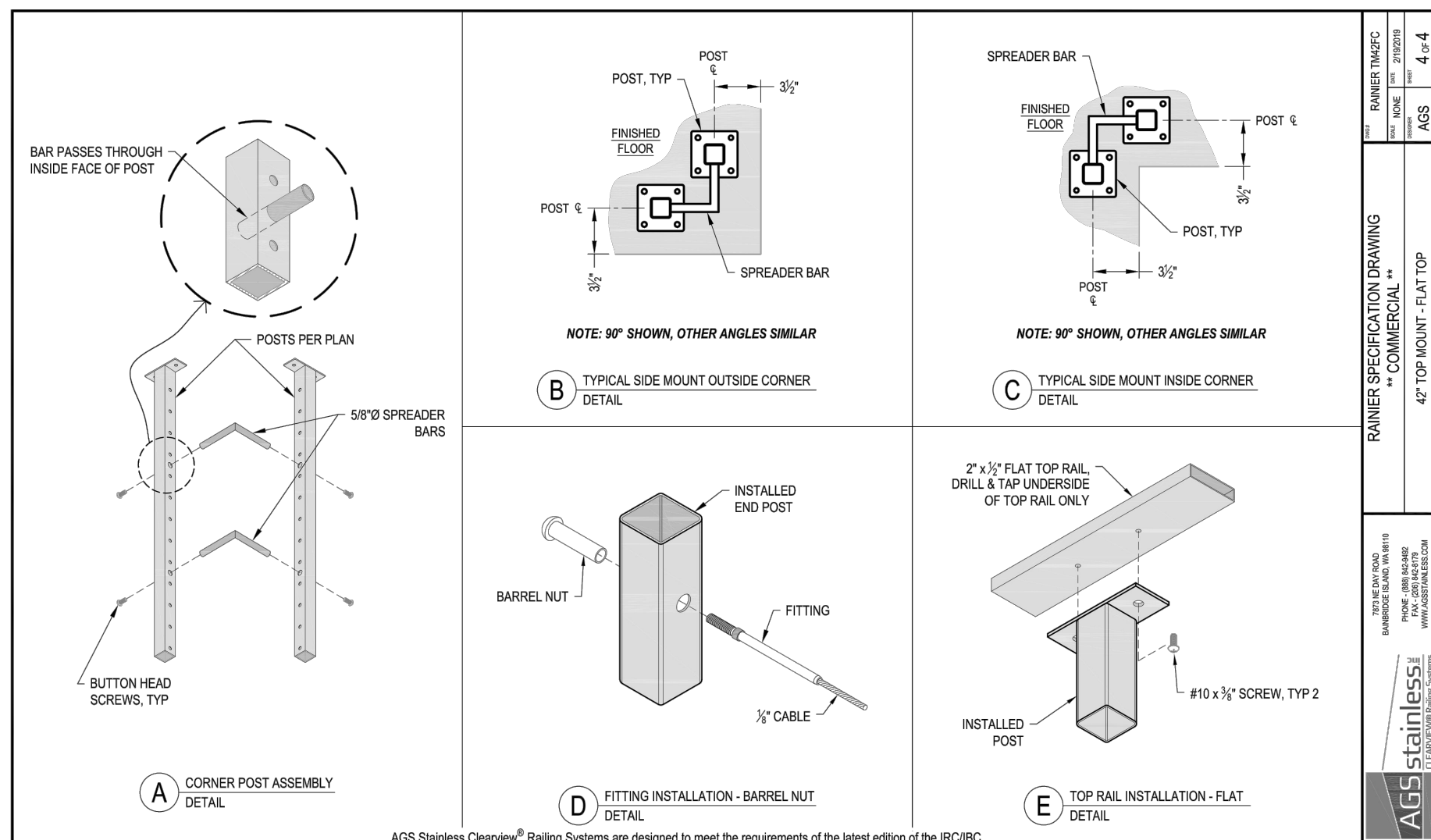
I:\river authorities\21-021 pendleton property park (sabine river authority)\cad - phase 2\03 - production\CONSTRUCTION DETAILS II.dwg



CABLE RAILING



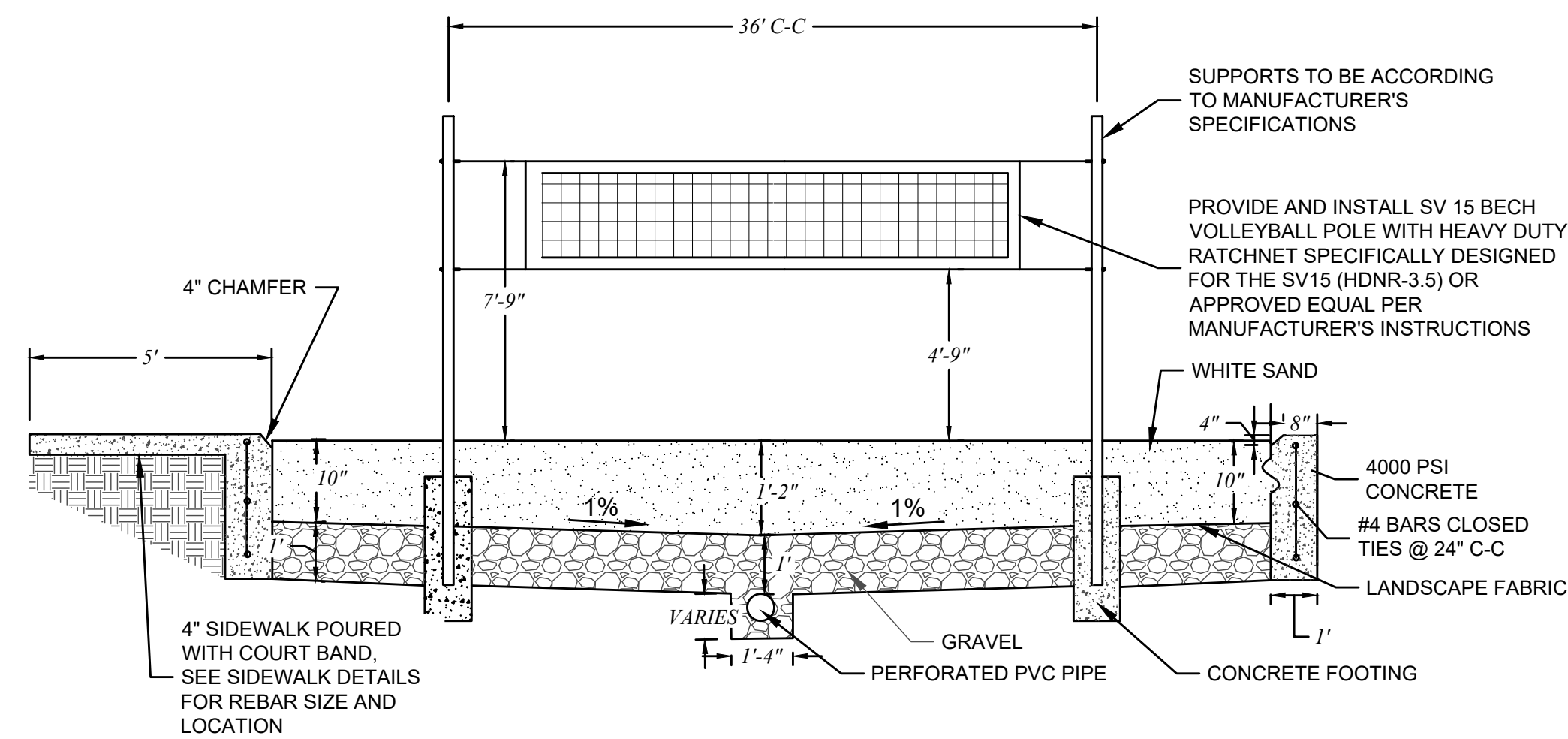
CABLE HAND-RAILING



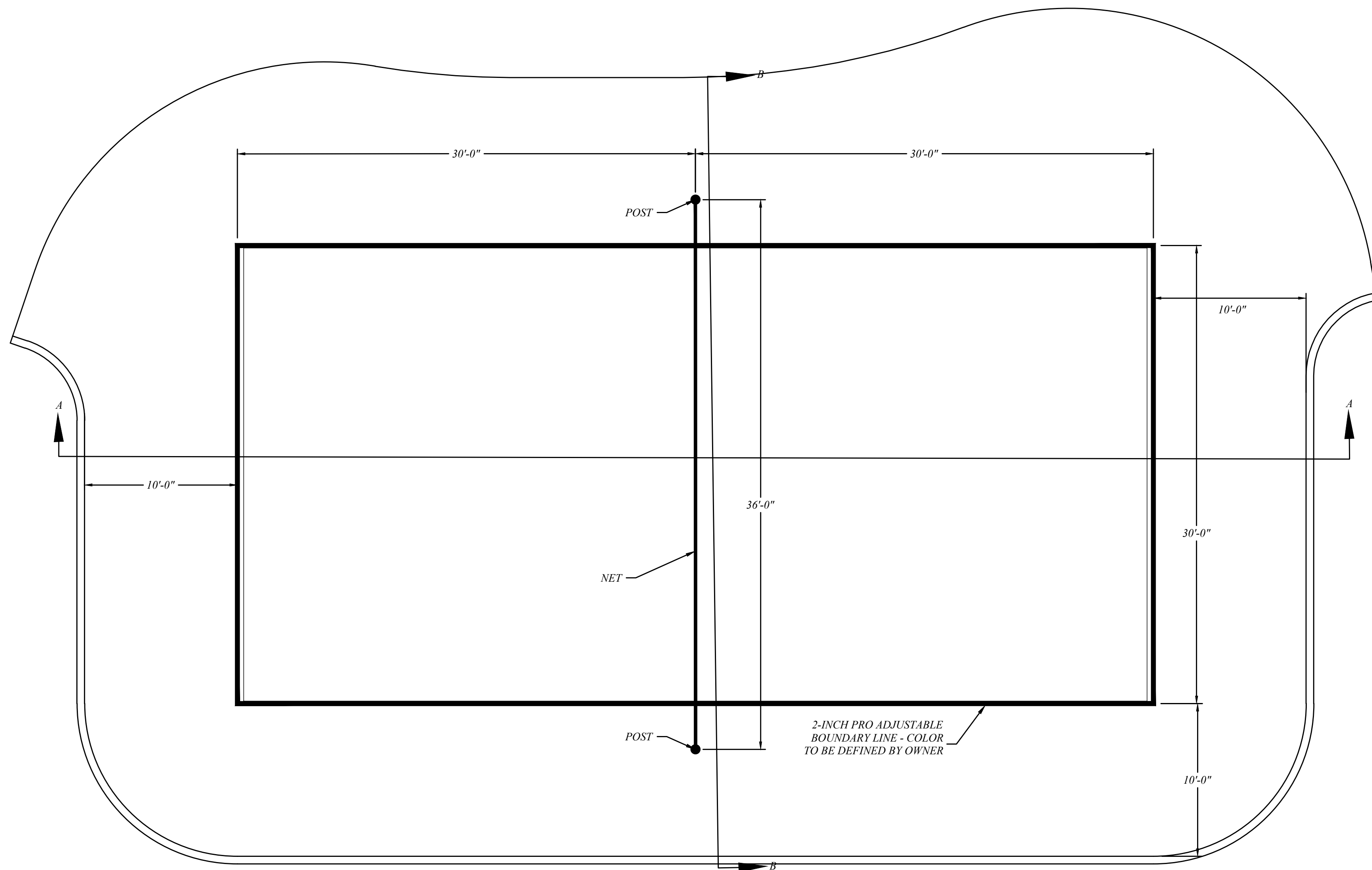
VOLLEYBALL CROSS SECTION A-A
N.T.S.

| NAME | PARTICLE DIAMETER | SPEC. (% RET. ON SIEVES) |
|------------------|-------------------|--------------------------|
| Fine gravel | 2.0 mm | 0% |
| Very Course sand | 1.0 mm - 2.0 mm | 0%-6% |
| Coarse sand | 0.5 mm - 1.0 mm | min of 80% |
| Medium sand | 0.25 mm - 0.5 mm | max of 92% |
| Fine sand | 0.15 mm - 0.25 mm | 7% - 18% |
| Very fine sand | 0.05 mm - 0.15 mm | not greater than 2.0% |
| Silt and Clay | below 0.05 mm | not greater than 0.15% |

BEACH VOLLEYBALL SAND SPECIFICATIONS



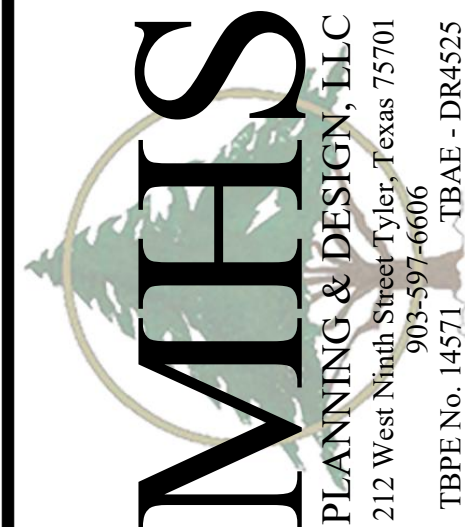
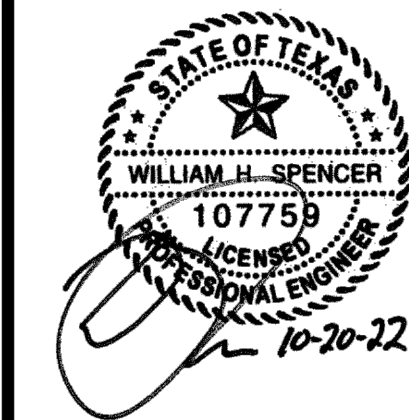
VOLLEYBALL CROSS SECTION B-B
N.T.S.



ALL DIMENSIONS ARE TO OUTSIDE EDGE OF LINES
EXCEPT AS NOTED

VOLLEYBALL COURT DETAIL
N.T.S.

REVISIONS



CONSTRUCTION DETAILS X

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: SMM

CHECKED: WHS

DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

C26

TOLEDO BEND RESERVOIR

Located throughout Shelby, Sabine and Newton Counties the Toledo Bend Reservoir straddles the Texas-Louisiana border. The reservoir is the largest body of water in the South with an area of **185,000 acres**, and is the fifth largest by surface acre in the United States.

Construction of the dam, spillway and power plant was completed in the early part of 1969. A population of 300 pounds of game fish per acre and an annual fingerling restocking program make Toledo Bend one of the best fishing lakes in the country with an abundance of black bass, white bass, stripers, Florida bass, crappie, bream and channel catfish, flathead catfish, and many other species.

Toledo Bend Reservoir has approximately 1,200 miles of shoreline for swimming, kayaking, boating, picnicking, fishing, camping, hunting, and sightseeing.



Largemouth Bass
This fish species grows to a maximum of 16 inches within three years. Their noticeable coloring of green with dark blotches that form a horizontal stripe along the middle of the fish on either side is striking and easy to spot. With the exception of humans, adult largemouth bass are the top predators in lakes, ponds, and similar aquatic environments.



Black and White Crappie
Pomoxis is the genus name for crappie, which is Greek for "opercle sharp". This name refers to the fact that the fish's gill covers are lined with spines. The black crappie is more richly colored than the white crappie species, but both are a silvery-green color with irregular black blotches.



Flathead Catfish
As this common name suggests, this catfish has a flat head, smooth scaleless skin, and whisker-like barbels around the mouth. Flathead catfish can reach lengths of three to four feet and weigh more than 100 pounds. This species is the second largest sport fish in Texas, only topped by their cousin the blue catfish.



Let's Go Fishing!

AREA CULTURAL HISTORY

Overview

This area of Texas has a rich and culturally diverse history! From Native Americans to European explorers many cultures have used nearby paths and roadways to travel, trade, and explore. The primary trail was the El Camino Real de los Tejas which is now known as Texas Highway 21.

Early Inhabitants

The Ais tribe of the Caddo Native Americans were the original inhabitants of the surrounding area, with the earliest possible Europeans arriving in the early 1540s being members of the Moscoso Expedition. During the early 1700s Louis Juchereau de St. Denis led an expedition into Texas which took him through northern Sabine County. St. Denis would have traveled the Old San Antonio Road, which soon became the main route of travel. This route allowed for slow migration of settlers into the area.

El Camino Real de los Tejas

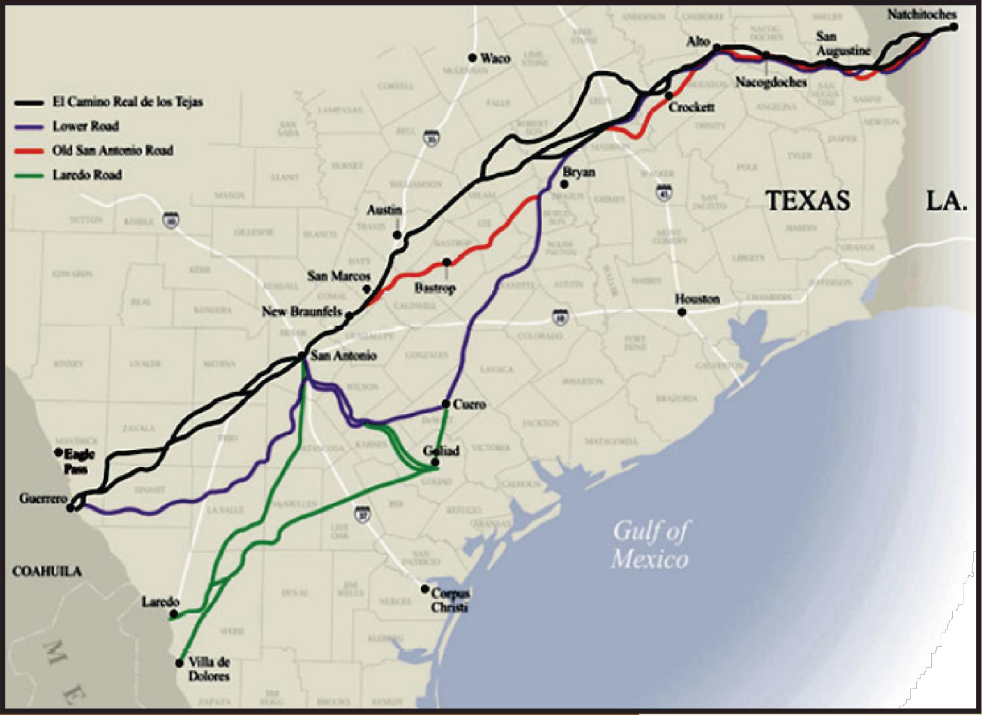
Both sections of Native American footpaths along with roadways used by settlers and explorers became what was known as the El Camino Real de los Tejas. The main thoroughfare facilitated in the spread of European culture into Texas.

Ferry Crossing

The first ferry to be located nearby was the Chabanan Ferry (El Paso de Chalan) which operated until 1796. At that time Michael Crow established his own ferry which ran until 1812 when it was purchased by James Gaines and renamed Gaines Ferry. This ferry location was a major crossing between modern day Texas and Louisiana along the El Camino Real de los Tejas and was located approximately where the Gaines-Pendleton Bridge now stands.

Modern Travel

With the building of State Highway 21 following the old path of the El Camino Real de los Tejas the construction of a bridge became necessary for the increased traffic. The bridge construction from 1935 to 1937 caused a decline in the use of the ferry services and its inevitable closure, ending approximately 140 years of service. This first permanent crossing memorialized history with it being named Gaines Memorial Bridge. Following the construction of the Toledo Bend Dam and Reservoir in 1967 a new bridge was needed to span the nearly three mile stretch of open water. The Pendleton Bridge still stands today, covering a total of 2.5 miles and averaging 3,300 cars daily.



A Real Connection to Texas History!

INTERPRETIVE SIGN GRAPHICS

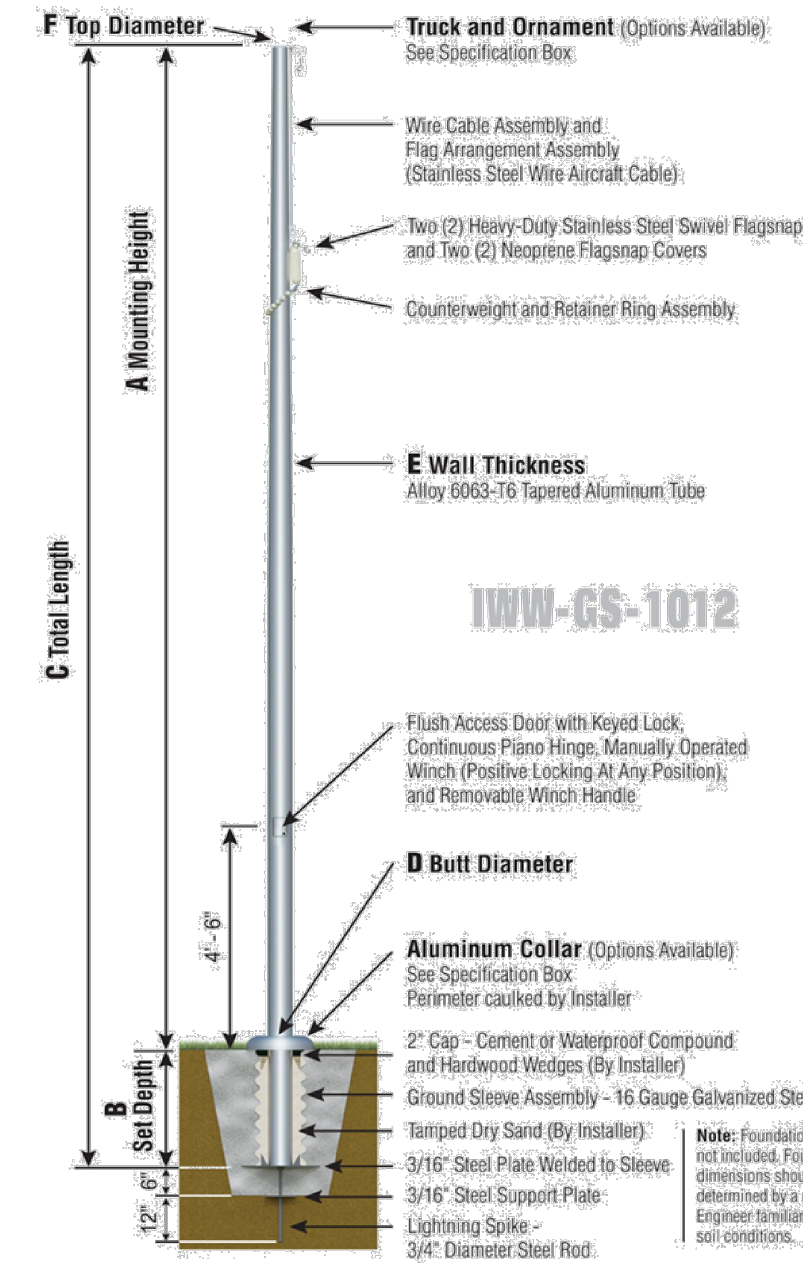
NOTE: SIGNS MAY BE SUBSTITUTED FOR AN APPROVED EQUAL.

FOSSIL SIGNS: RHIANNON ANDREWS
rhiannon@fossilgraphics.com



Titan Series

IWW - Internal with Winch
Wire Halyard
Ground Set Installation



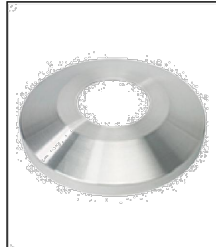
IWW80H24 - SAT



TRK-9800-58
Int. Revolving Truck
Sealed Bearings



BAL-1258-GLD
HD Gold Anodized
Aluminum Ball



COL1-A12S
FC-11 Spun Alum
1-Piece



SAT
Satin Finish



IWW - WINCH
Hinged Door

FLAGS TO BE ORDERED:
(1) US FLAG 15'X25'
(1) TEXAS FLAG 15'X25'

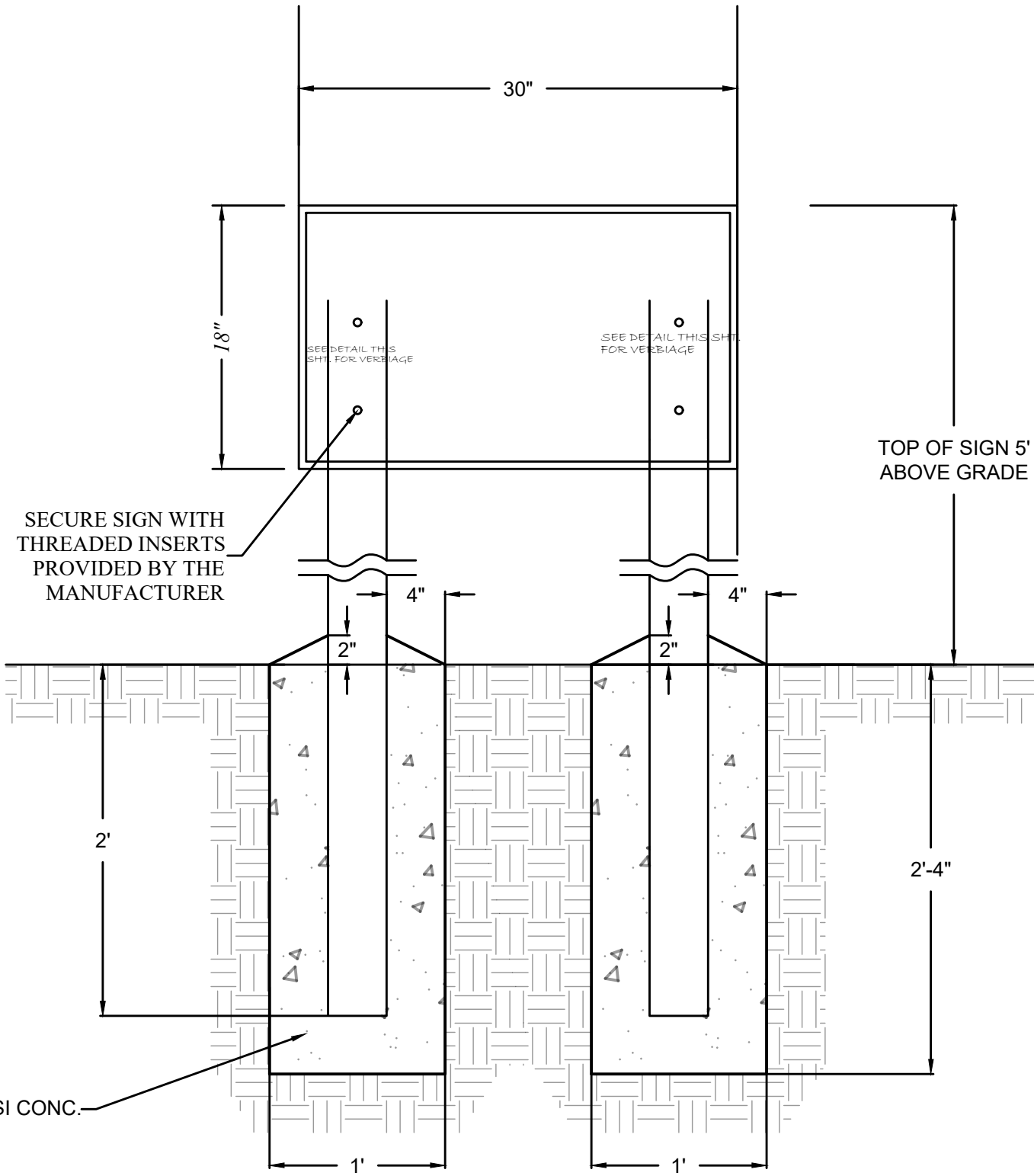
| Specifications | |
|----------------------------------|------------------------|
| A. Mounting Height: | 80' |
| B. Set Depth: | 8'-0" |
| C. Total Length: | 88'-0" |
| D. Butt Diameter: | 12" |
| E. Wall Thickness: | .375" |
| F. Top Diameter: | 4" |
| Flagpole Sections: | 4 |
| Shaft Weight: | 1140 lbs. |
| Hardware Weight: | 59 lbs. |
| Ground Sleeve Weight: | 119 lbs. |
| * Max Flag Size: | 15' x 25' |
| * Max Wind Speed w/Nylon Flag: | 89 mph |
| * Max Wind Speed No Flag: | 121 mph |
| * Wind Speed Specifications from | ANSI/NIAAMM FP 1001-07 |

| | |
|----------------|--|
| Customer Name: | Mica Perez |
| Dealer: | Edison |
| Project: | MHS Planning |
| Notes: | Kronberg's Flags and Flagpoles 800-344-3524 |

IWW80H24G-TAZ-00G-C2N-FSA

CAFP_010819_109

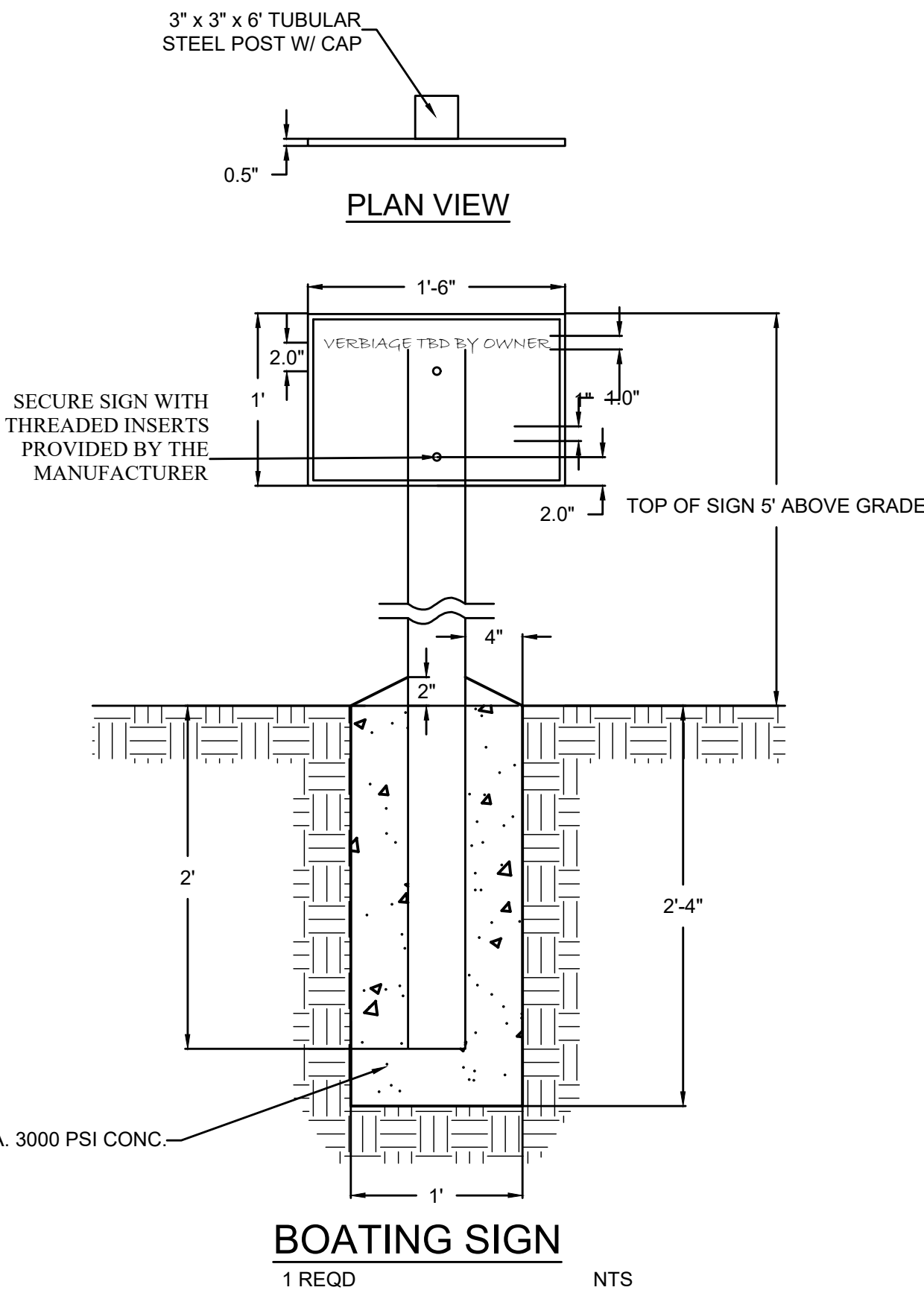
- 1 -



INTERPRETIVE SIGN

NOTE: SEE SITE PLAN FOR LOCATION. ACTUAL LOCATION OF SIGN TO BE DETERMINED ON GROUND BY OWNER AND CONSULTANT.

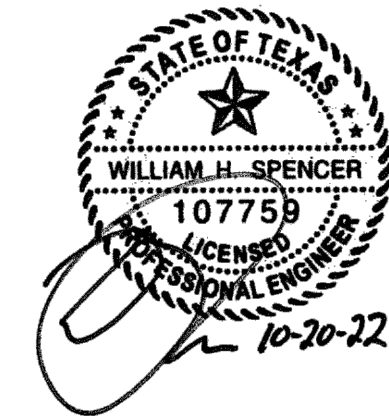
SUBJECT: LAKE STATISTICS AND HISTORY



BOATING SIGN

NOTE: SEE SITE PLAN FOR LOCATION. ACTUAL LOCATION OF SIGN TO BE DETERMINED ON GROUND BY CONSULTANT.

REVISIONS:



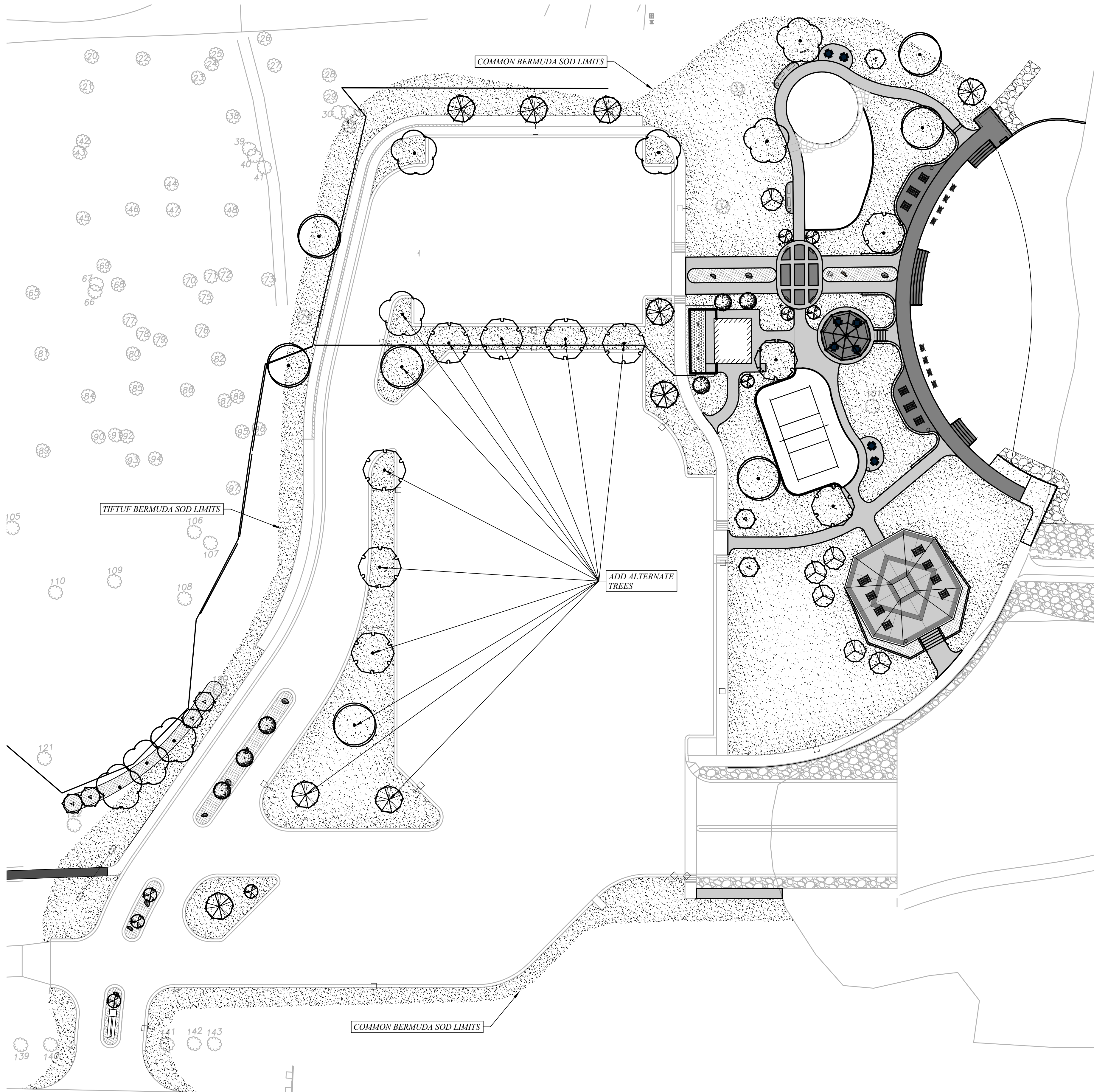
MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Tyler, Texas 75701
713-597-4606
TIDAE - DR4525
TIDEP No. 14571

CONSTRUCTION DETAILS XI
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | NSR |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

C27

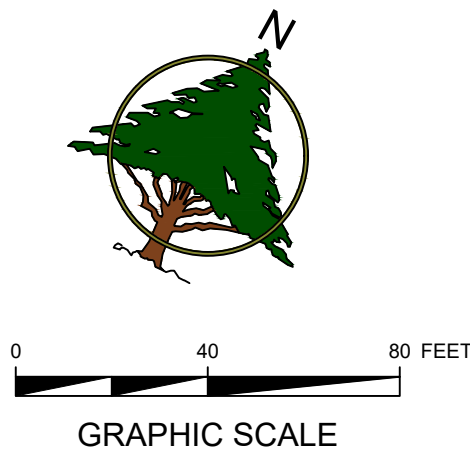
I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\TREE AND SOD PLAN.dwg



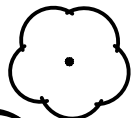
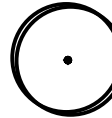






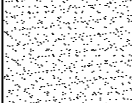
LEGEND

LANDSCAPE BEDDING
(± 3,500 SF)

EXISTING TREES



PLANT SCHEDULE TREE PLAN

| TREES | BOTANICAL / COMMON NAME | CONT | QTY | |
|---|--|-----------|---------|-----------|
|  | Quercus shumardii / Shumard Red Oak | 2" D.B.H. | 7 | |
|  | Quercus virginiana / Southern Live Oak | 2" D.B.H. | 5 | |
|  | Taxodium distichum / Bald Cypress | 2" D.B.H. | 7 | |
|  | Ulmus crassifolia / Cedar Elm | 2" D.B.H. | 3 | |
| ORNAMENTAL TREES | BOTANICAL / COMMON NAME | CONT | QTY | |
|  | Cercis canadensis / Eastern Redbud | 15 gal. | 7 | |
|  | Ilex decidua 'Warren's Red' / Warren's Red Possumhaw | 15 gal. | 9 | |
|  | Ilex opaca / American Holly | 30 gal. | 6 | |
|  | Magnolia virginiana / Sweetbay Magnolia | 30 gal. | 6 | |
| TURFGRASS | BOTANICAL / COMMON NAME | CONT | SPACING | QTY |
|  | Cynodon dactylon / Bermuda Grass | Sod | | 99,765 sf |

PLANT SCHEDULE ADD ALTERNATE

| TREES | BOTANICAL / COMMON NAME | CONT | QTY |
|-------|--|-----------|-----|
| | Quercus shumardii / Shumard Red Oak | 2" D.B.H. | 1 |
| | Quercus virginiana / Southern Live Oak | 2" D.B.H. | 2 |
| | Taxodium distichum / Bald Cypress | 2" D.B.H. | 2 |
| | Ulmus crassifolia / Cedar Elm | 2" D.B.H. | 7 |

NOTE:
CONTRACTOR MUST SEED ANY DISTURBED AREAS OUTSIDE OF THE SOD LIMITS.
SEED MIX IS INTENDED FOR MINIMALLY MAINTAINED AREAS AND WILL NEED TO BE REVISED IF AREA IS TO BE MOWED REGULARLY.

NOTE:
1.) NATIVE GRASS SEED TO BE 'PINEY WOODS ECOREGION - SANDY SOIL MIX'
10% BLACKWELL SWITCHGRASS
15% CHEYENNE INDIANGRASS
10% DUVAL GERMLASM RED LOVEGRASS
10% LAVACA CANADA WILDRYE
10% MASON SAND LOVEGRASS
10% NUCES GERMLASM SAND DROPSEED
25% OK SELECT GERMLASM LITTLE BLUESTEM
10% SANTIAGO GERMLASM SILVER BLUESTEM
SEED TO BE PLANTED 3.5 LBS PER ACRE.

REVISIONS:

MHS
PLANNING & DESIGN, LLC
212 West Ninth Street, Tyler, Texas 75701
732-597-6000
TIDAE - DR4525
TIDEP No. 14571

TREE AND SOD PLAN

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: JHD

CHECKED: WHS

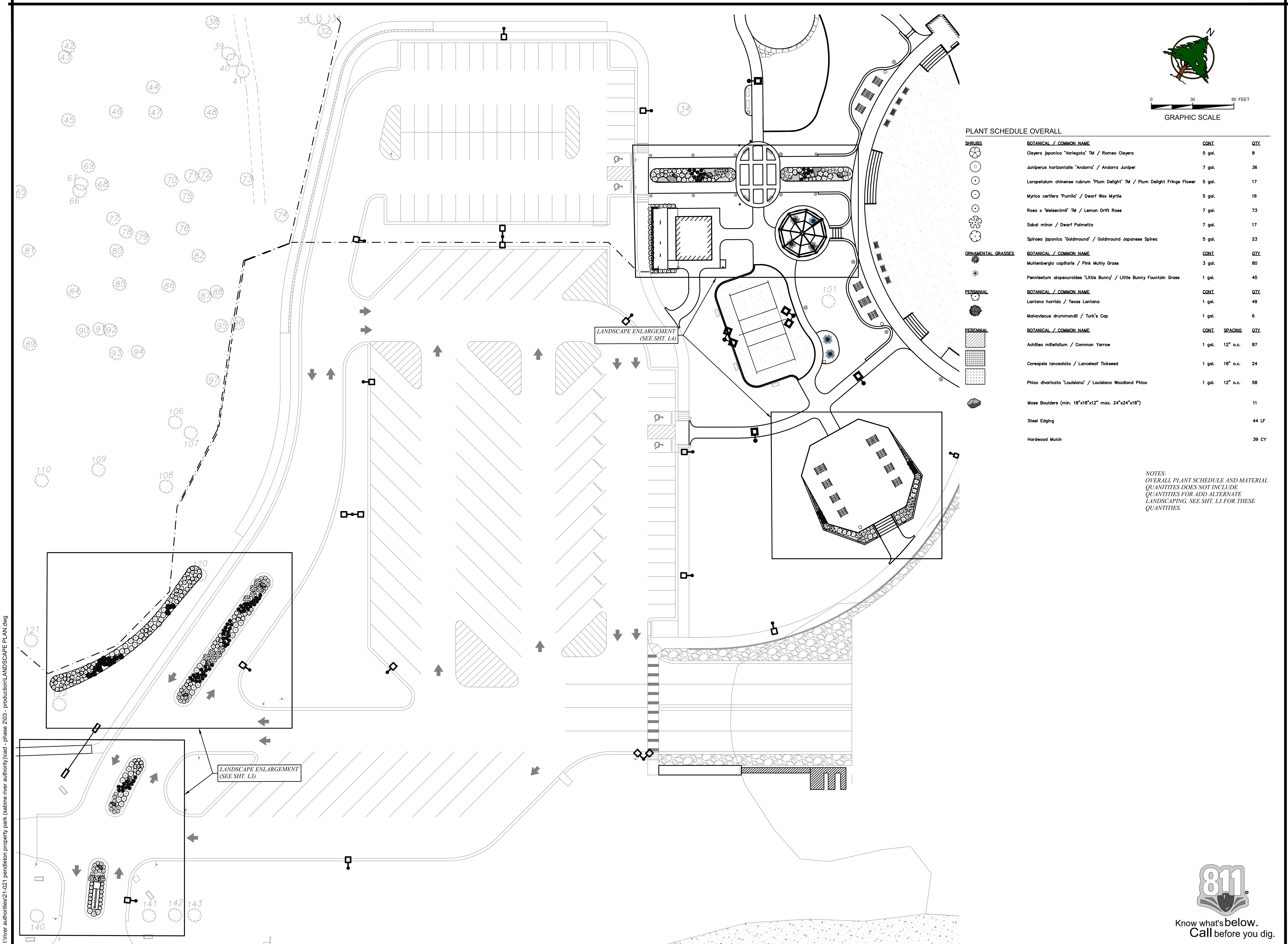
DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

L1

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\LANDSCAPE PLAN.dwg



Know what's below.
Call before you dig.

REVISIONS:



OVERALL LANDSCAPE PLAN

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

DRAWN: JHD

CHECKED: WHS

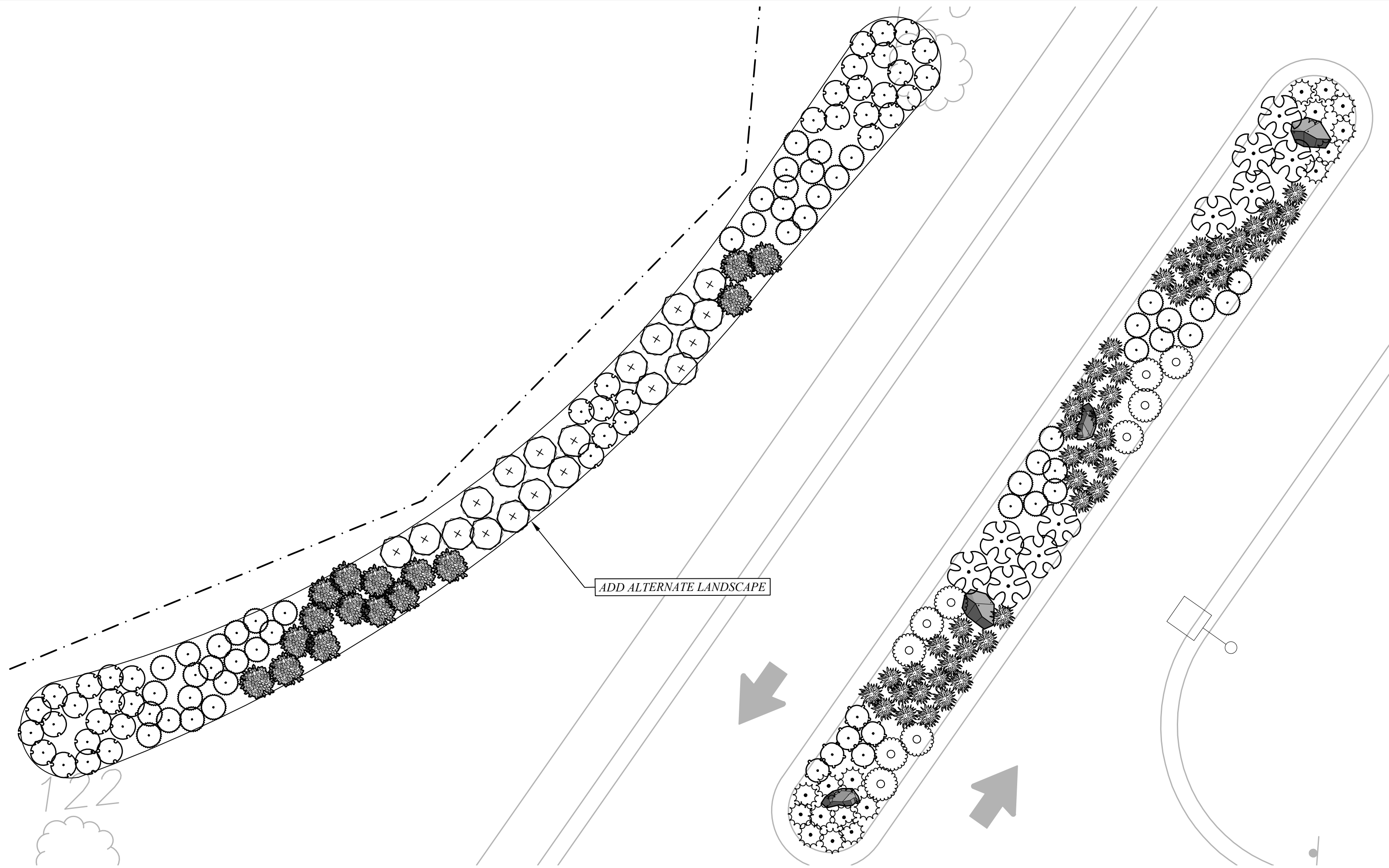
DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

L2

I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\LANDSCAPE PLAN.dwg

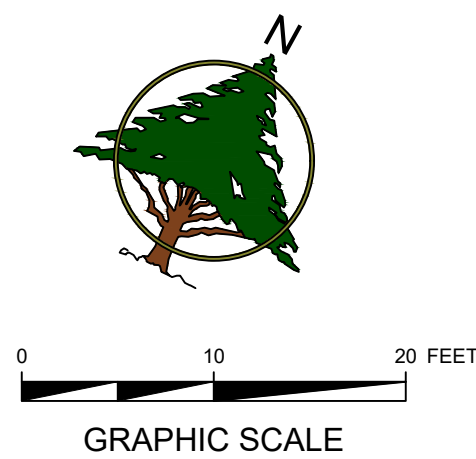


ADD ALTERNATE LANDSCAPE

ADD ALTERNATE AND ENTRY
N.T.S.

PLANT SCHEDULE ENTRY

| SHRUBS | BOTANICAL / COMMON NAME | CONT | QTY |
|--------------------|--|--------|-----|
| | Juniperus horizontalis 'Andorra' / Andorra Juniper | 7 gal. | 23 |
| | Myrica cerifera 'Pumila' / Dwarf Wax Myrtle | 5 gal. | 16 |
| | Rosa x 'Meisenthil' TM / Lemon Drift Rose | 7 gal. | 38 |
| | Sabal minor / Dwarf Palmetto | 7 gal. | 13 |
| ORNAMENTAL GRASSES | BOTANICAL / COMMON NAME | CONT | QTY |
| | Muhlenbergia capillaris / Pink Muhly Grass | 3 gal. | 61 |
| PERENNIAL | BOTANICAL / COMMON NAME | CONT | QTY |
| | Lantana horrida / Texas Lantana | 1 gal. | 31 |

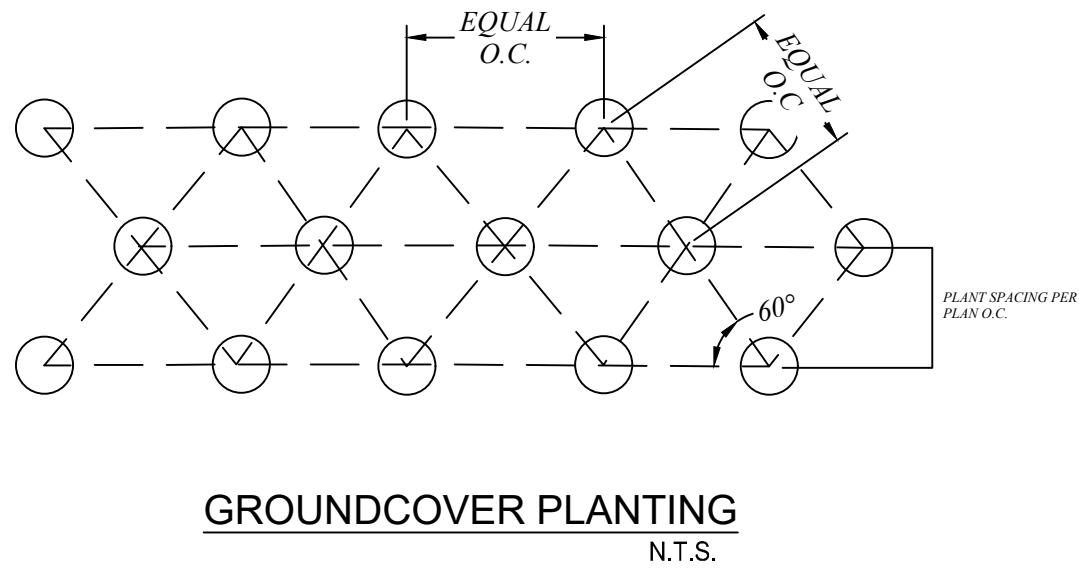
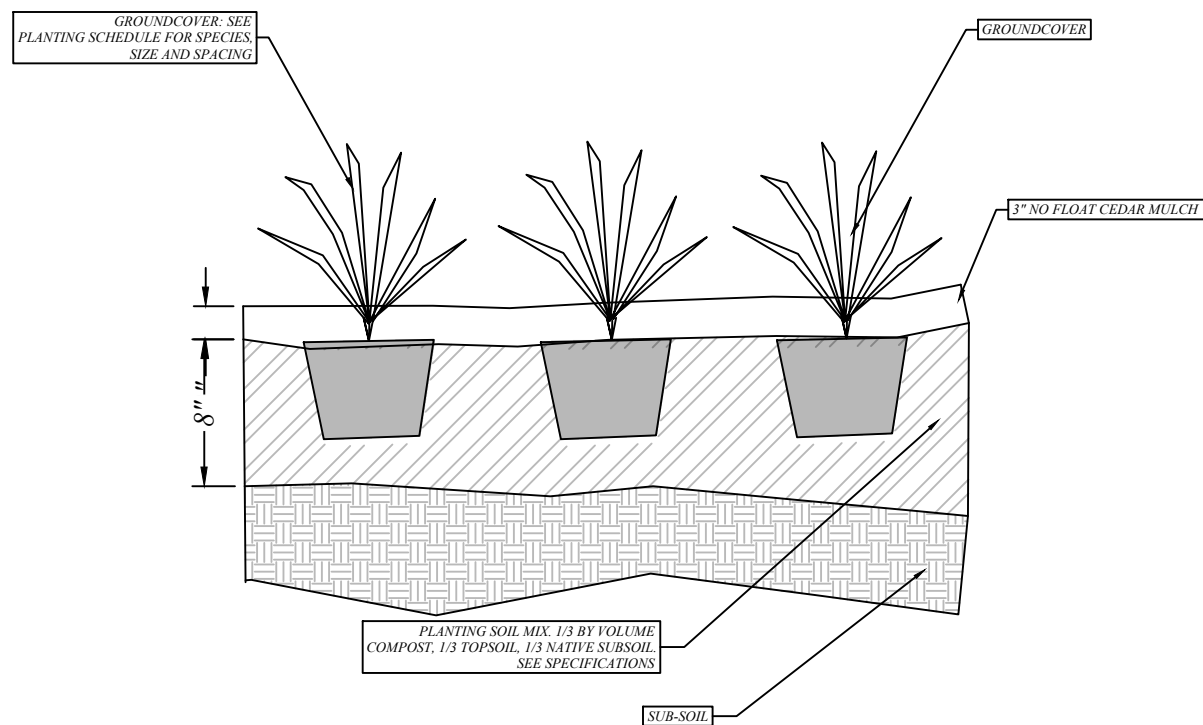


PLANT SCHEDULE ADD ALT ENTRY

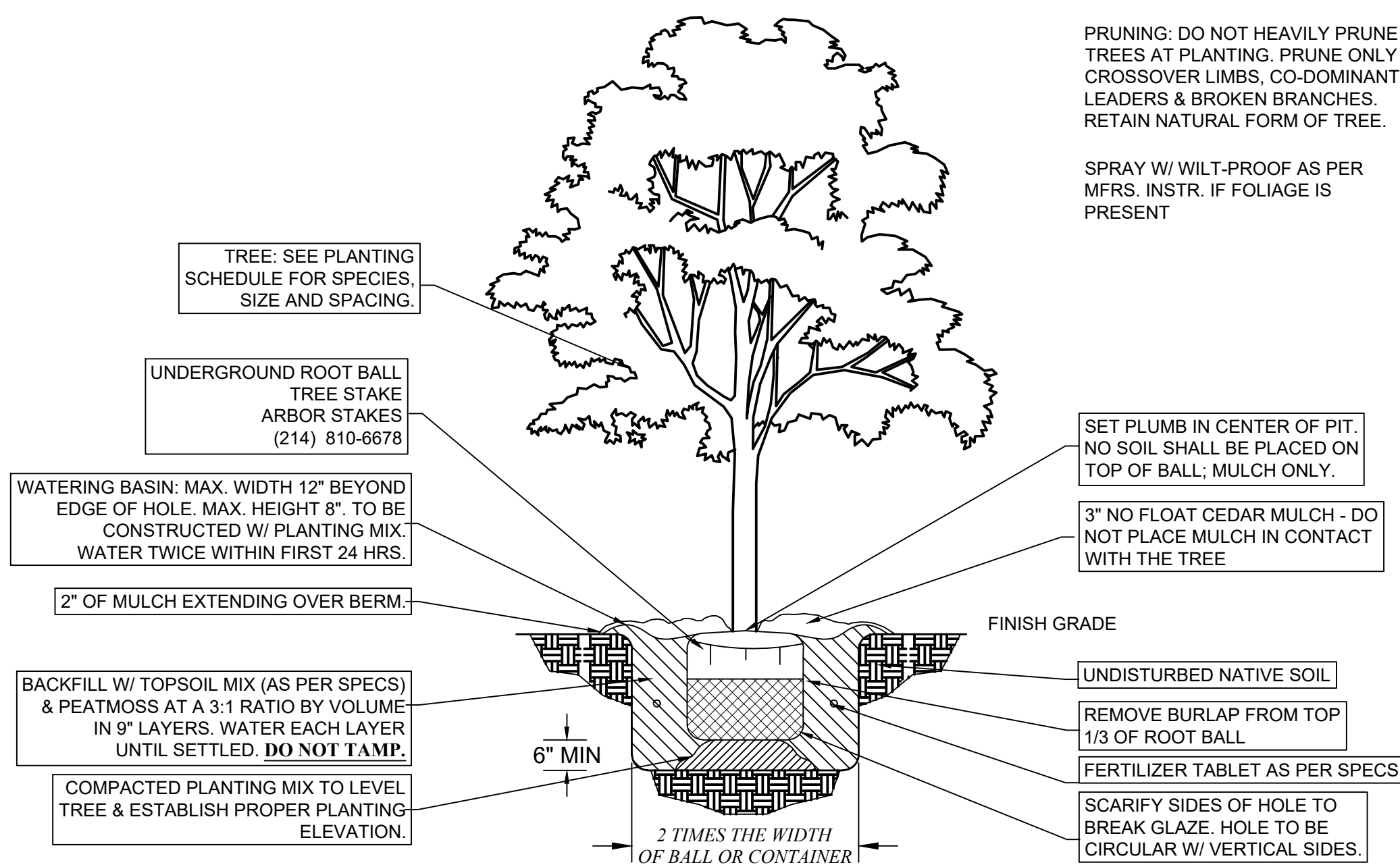
| SHRUBS | BOTANICAL / COMMON NAME | CONT | QTY |
|-----------|---|--------|-----|
| | Callicarpa bodinieri 'Profusion' / Profusion Beautyberry | 7 gal. | 19 |
| | Itea virginica 'Henry's Garnet' / Henry's Garnet Sweetspire | 7 gal. | 41 |
| | Myrica cerifera 'Pumila' / Dwarf Wax Myrtle | 5 gal. | 33 |
| PERENNIAL | BOTANICAL / COMMON NAME | CONT | QTY |
| | Malvaviscus drummondii / Turk's Cap | 1 gal. | 16 |

Steel Edging
Hardwood Mulch

295 LF
15.5 CY



GROUND COVER PLANTING
N.T.S.



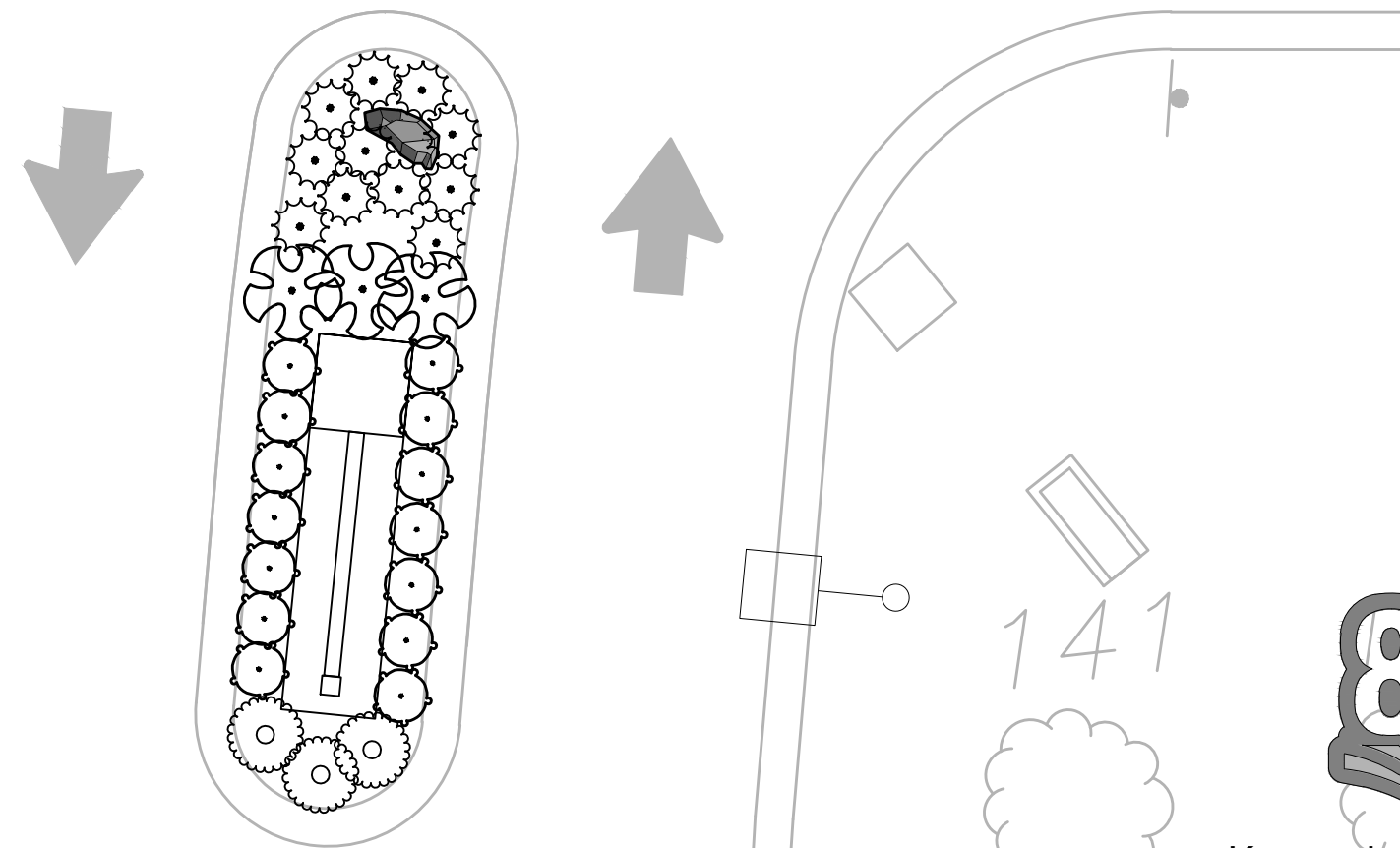
TREE PLANTING DETAIL
N.T.S.

PRUNING: DO NOT HEAVILY PRUNE TREES AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS & BROKEN BRANCHES. RETAIN NATURAL FORM OF TREE.

SPRAY W/ WILT-PROOF AS PER MFRS. INSTR. IF FOLIAGE IS PRESENT

SET PLUMB IN CENTER OF PIT. NO SOIL SHALL BE PLACED ON TOP OF BALL; MULCH ONLY.

3\"/>



ENTRY BEDS
N.T.S.

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

REVISIONS:

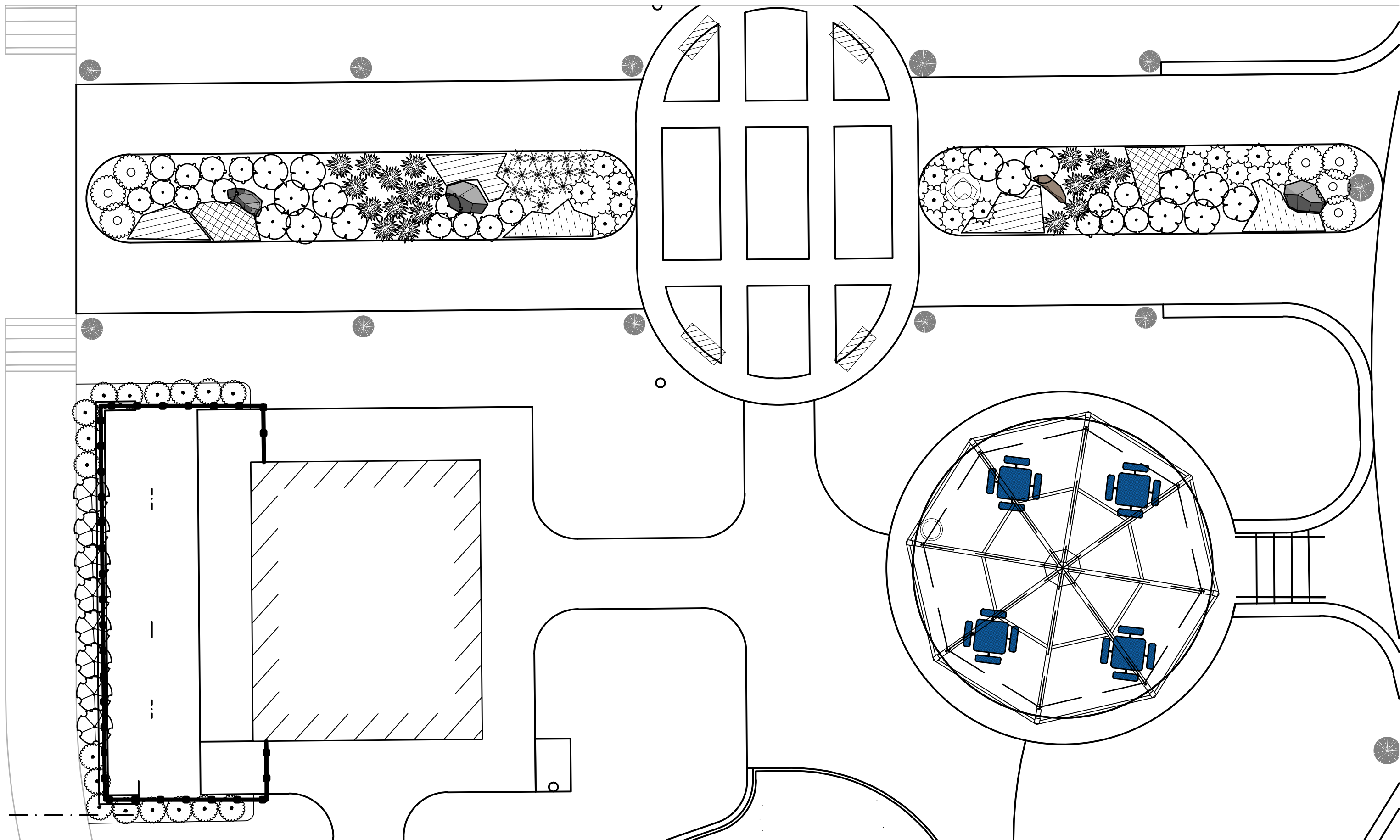


LANDSCAPE PLAN I PENDLETON PROPERTY PHASE 2 SABINE RIVER AUTHORITY OF TEXAS

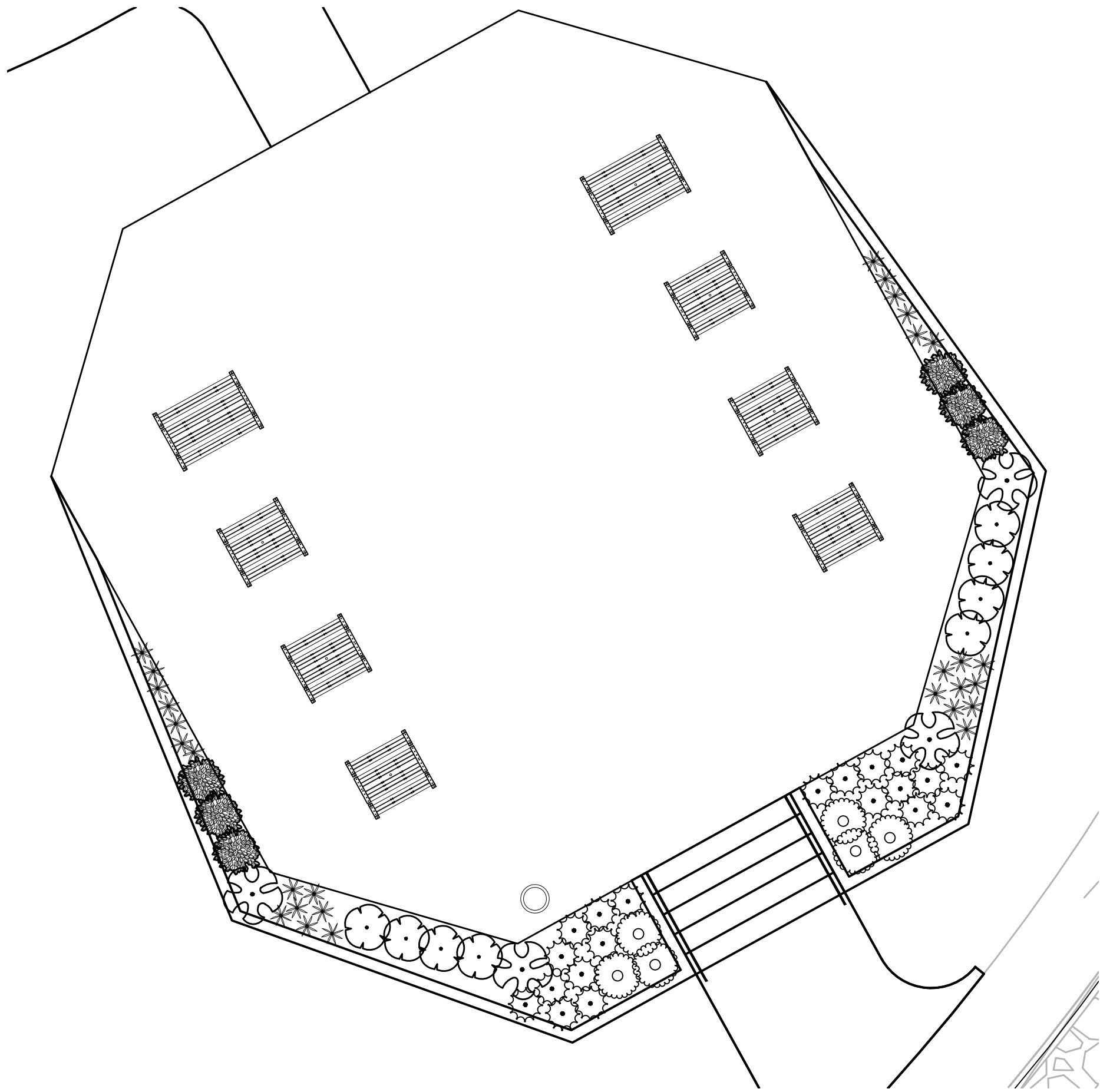
DRAWN: JHD
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

L3

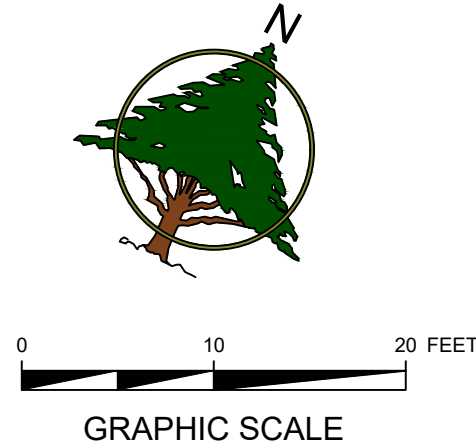
I:\river authorities\21-021 pendleton property park (sabine river authority)\lead - phase 203 - production\LANDSCAPE PLAN.dwg



BOULEVARD AND RESTROOM BEDS
N.T.S.



LARGE PAVILION
LANDSCAPE BEDS



PLANT SCHEDULE PARK

| SHRUBS | BOTANICAL / COMMON NAME | CONT | QTY | |
|---|--|--------|----------|-----|
|  | Cleyera japonica 'Variegata' TM / Romeo Cleyera | 5 gal. | 8 | |
|  | Juniperus horizontalis 'Andorra' / Andorra Juniper | 7 gal. | 13 | |
|  | Loropetalum chinense rubrum 'Plum Delight' TM / Plum Delight Fringe Flower | 5 gal. | 17 | |
|  | Rosa x 'Meisentmii' TM / Lemon Drift Rose | 7 gal. | 35 | |
|  | Sabal minor / Dwarf Palmetto | 7 gal. | 4 | |
|  | Spiraea japonica 'Goldmound' / Goldmound Japanese Spirea | 5 gal. | 23 | |
| ORNAMENTAL GRASSES | BOTANICAL / COMMON NAME | CONT | QTY | |
|  | Muhlenbergia capillaris / Pink Muhly Grass | 3 gal. | 19 | |
|  | Pennisetum alopecuroides 'Little Bunny' / Little Bunny Fountain Grass | 1 gal. | 45 | |
| PERENNIAL | BOTANICAL / COMMON NAME | CONT | QTY | |
|  | Lantana horrida / Texas Lantana | 1 gal. | 18 | |
|  | Malvaviscus drummondii / Turk's Cap | 1 gal. | 6 | |
| PERENNIAL | BOTANICAL / COMMON NAME | CONT | SPACING | QTY |
|  | Achillea millefolium / Common Yarrow | 1 gal. | 12" o.c. | 87 |
|  | Coreopsis lanceolata / Lanceleaf Tickseed | 1 gal. | 18" o.c. | 24 |
|  | Phlox divaricata 'Louisiana' / Louisiana Woodland Phlox | 1 gal. | 12" o.c. | 58 |



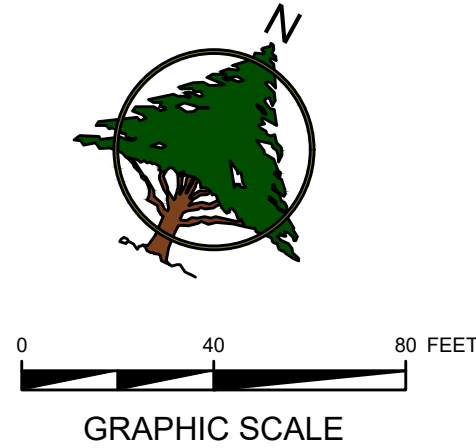
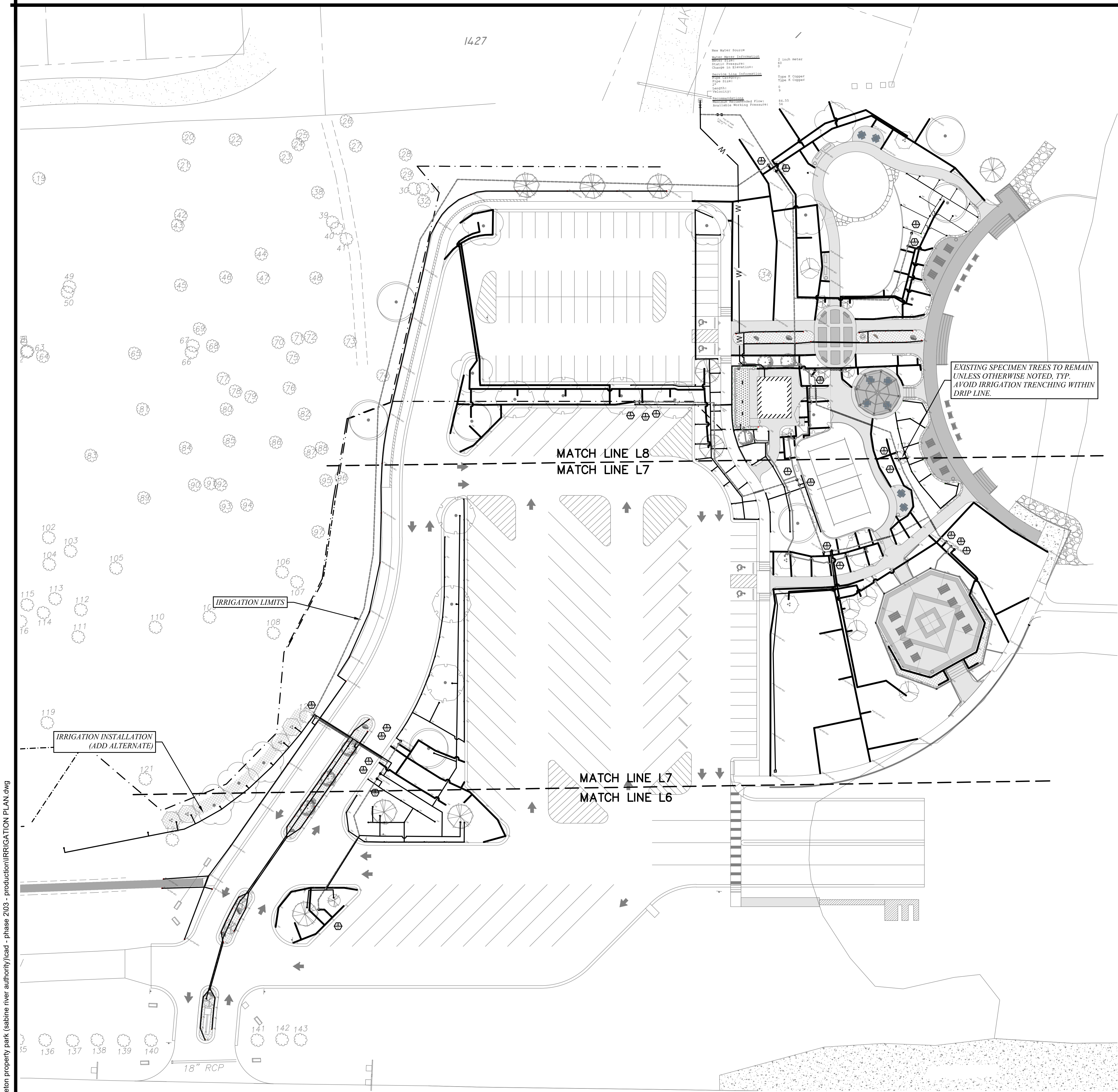
REVISIONS:



LANDSCAPE PLAN II
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | JHD |
| CHECKED: | WHS |
| DATE: | 10/27/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

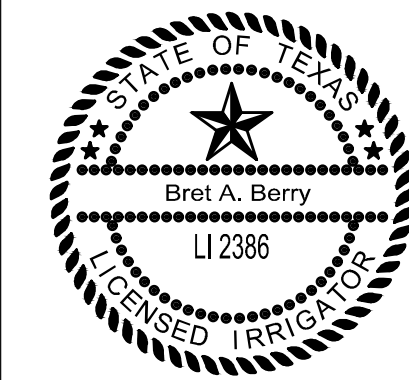
I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\IRRIGATION PLAN.dwg



| Irrigation | | | | | | |
|--------------|--------|------------------------------|---------------|----------|------|--------|
| Qty | Symbol | Description | Part # | Pressure | Flow | Radius |
| 56 | ● | Hunter PCB-10 | PCB-10 | 25 | 1 | 0 |
| 19 | ▲ | Hunter 4H - PROS-12 | 4H | 30 | 0.44 | 4 |
| 3 | ▲ | Hunter 4Q - PROS-12 | 4Q | 30 | 0.22 | 4 |
| 8 | ▲ | Hunter 6H - PROS-12 | 6H | 30 | 0.98 | 6 |
| 1 | ▲ | Hunter 8H - PROS-06 | 8H | 30 | 0.47 | 8 |
| 18 | ▲ | Hunter 8H - PROS-12 | 8H | 30 | 0.47 | 8 |
| 2 | ▲ | Hunter 8Q - PROS-04 | 8Q | 30 | 0.24 | 8 |
| 6 | ▲ | Hunter 8Q - PROS-12 | 8Q | 30 | 0.24 | 8 |
| 1 | ▲ | Hunter 10A-120 - PROS-04 | 10A | 30 | 0.65 | 10 |
| 1 | ▲ | Hunter 10A-270 - PROS-04 | 10A | 30 | 1.47 | 10 |
| 1 | ▲ | Hunter 10F - PROS-04 | 10F | 30 | 1.59 | 10 |
| 11 | ▲ | Hunter 10H - PROS-04 | 10H | 30 | 0.88 | 10 |
| 45 | ▲ | Hunter 10H - PROS-12 | 10H | 30 | 0.88 | 10 |
| 6 | ▲ | Hunter 10Q - PROS-04 | 10Q | 30 | 0.42 | 10 |
| 8 | ▲ | Hunter 10Q - PROS-12 | 10Q | 30 | 0.42 | 10 |
| 1 | ▲ | Hunter 12A-120 - PROS-04 | 12A | 30 | 0.84 | 12 |
| 16 | ▲ | Hunter 12F - PROS-04 | 12F | 30 | 2.7 | 12 |
| 32 | ▲ | Hunter 12H - PROS-04 | 12H | 30 | 1.3 | 12 |
| 9 | ▲ | Hunter 12Q - PROS-04 | 12Q | 30 | 0.67 | 12 |
| 8 | ▲ | Hunter 15A-120 - PROS-04 | 15A | 30 | 1.24 | 15 |
| 6 | ▲ | Hunter 15A-240 - PROS-04 | 15A | 30 | 2.48 | 15 |
| 2 | ▲ | Hunter 15A-270 - PROS-04 | 15A | 30 | 2.79 | 15 |
| 1 | ▲ | Hunter 15A-45 - PROS-04 | 15A | 30 | 0.47 | 15 |
| 34 | ▲ | Hunter 15F - PROS-04 | 15F | 30 | 3.75 | 15 |
| 144 | ▲ | Hunter 15H - PROS-04 | 15H | 30 | 1.86 | 15 |
| 34 | ▲ | Hunter 15Q - PROS-04 | 15Q | 30 | 0.97 | 15 |
| 21 | ▲ | Hunter PGP-03 - PGP-ADJ | 03 | 50 | 1.2 | 31 |
| 1 | ▲ | Hunter PGP-04 - PGP-ADJ | 04 | 50 | 1.6 | 34 |
| 46 | ▲ | Hunter PGP-05 - PGP-ADJ | 05 | 50 | 2 | 38 |
| 1 | ▲ | Febco 850 - 2" | 850 - 2" | | | |
| 6 | ▲ | Hunter PGV-101G | PGV-101G | | | |
| 10 | ▲ | Hunter PGV-151 Globe | PGV-151 Globe | | | |
| 2 | ▲ | Hunter PGV-201 Angle | PGV-201 Angle | | | |
| 8 | ▲ | Hunter PGV-201 Globe | PGV-201 Globe | | | |
| 1 | ▲ | Hunter IC-3000-PP | IC-3000-PP | | | |
| 1 | ▲ | Spears 2" Gray PVC - Socket | 2621-020G | | | |
| 687.53 | ▲ | Class 200 4" | 0 | | | |
| 2 | ▲ | Ungrounded Hose Bib with Box | 0 | | | |
| 645.76 (ft) | ▲ | Lateral - Class 200 1 1/2" | 0 | | | |
| 1039.3 (ft) | ▲ | Lateral - Class 200 1 1/4" | 0 | | | |
| 1703.16 (ft) | ▲ | Lateral - Class 200 1" | 0 | | | |
| 68.4 (ft) | ▲ | Lateral - Class 200 2 1/2" | 0 | | | |
| 551.64 (ft) | ▲ | Lateral - Class 200 2" | 0 | | | |
| 1821.44 (ft) | ▲ | Lateral - Class 200 3/4" | 0 | | | |
| 5059.79 (ft) | ▲ | Lateral - Class 315 1/2" | 0 | | | |
| 1794.8 (ft) | ▲ | Mainline - Class 200 2" | 0 | | | |

- NOTES:
- SEE GENERAL NOTES FOR IRRIGATION REPAIR REQUIREMENTS.
 - SEE TECHNICAL SPECIFICATION SECTION 328000 FOR IRRIGATION REQUIREMENTS.
 - COORDINATE WITH IRRIGATION DESIGNER IF WATER PRESSURE IS NOT ADEQUATE TO OPERATE THE SYSTEM AS DESIGNED.
 - ALL BUBBLERS ARE TO BE ADDED TO NEW BUBBLER ZONE, AND ADDITIONAL ZONE AND VALVE TO BE PROVIDED.
 - HEADS MAY BE ADJUSTED TO MAXIMIZE EFFICIENCY AND ENSURE FULL COVERAGE WITH EXISTING SYSTEM.
 - ASSUMES THAT THE SITE HAS NO EXISTING IRRIGATION SYSTEM AND THAT REMOVALS WILL NOT BE NECESSARY.
 - NO TRENCHING IS PERMITTED IN THE INNER 50% OF THE EXISTING TREE DRIPLINE
 - SLEEVE ALL LINES UNDER DRIVEWAYS, PARKWAYS, AND WALKWAYS.
 - SWING JOINTS TO BE USED ALONG ALL DRIVEWAYS AND PARKING AREAS.
 - FINAL IRRIGATION TO BE DESIGNED AFTER APPROVAL OF TREE AND SOD PLAN AND LANDSCAPE PLAN.
 - CONTROLLER TO BE IN UTILITY YARD, LOCATION TO BE APPROVED.

REVISIONS:



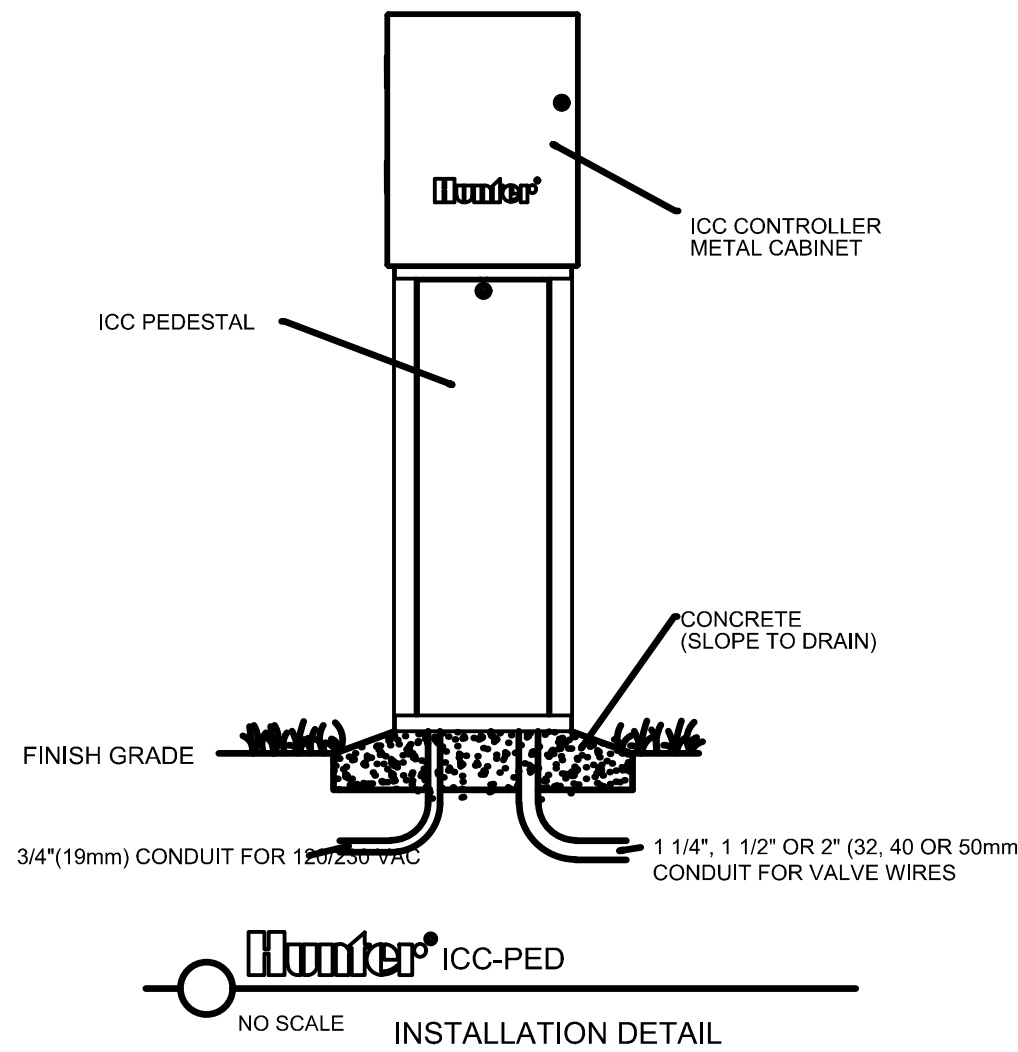
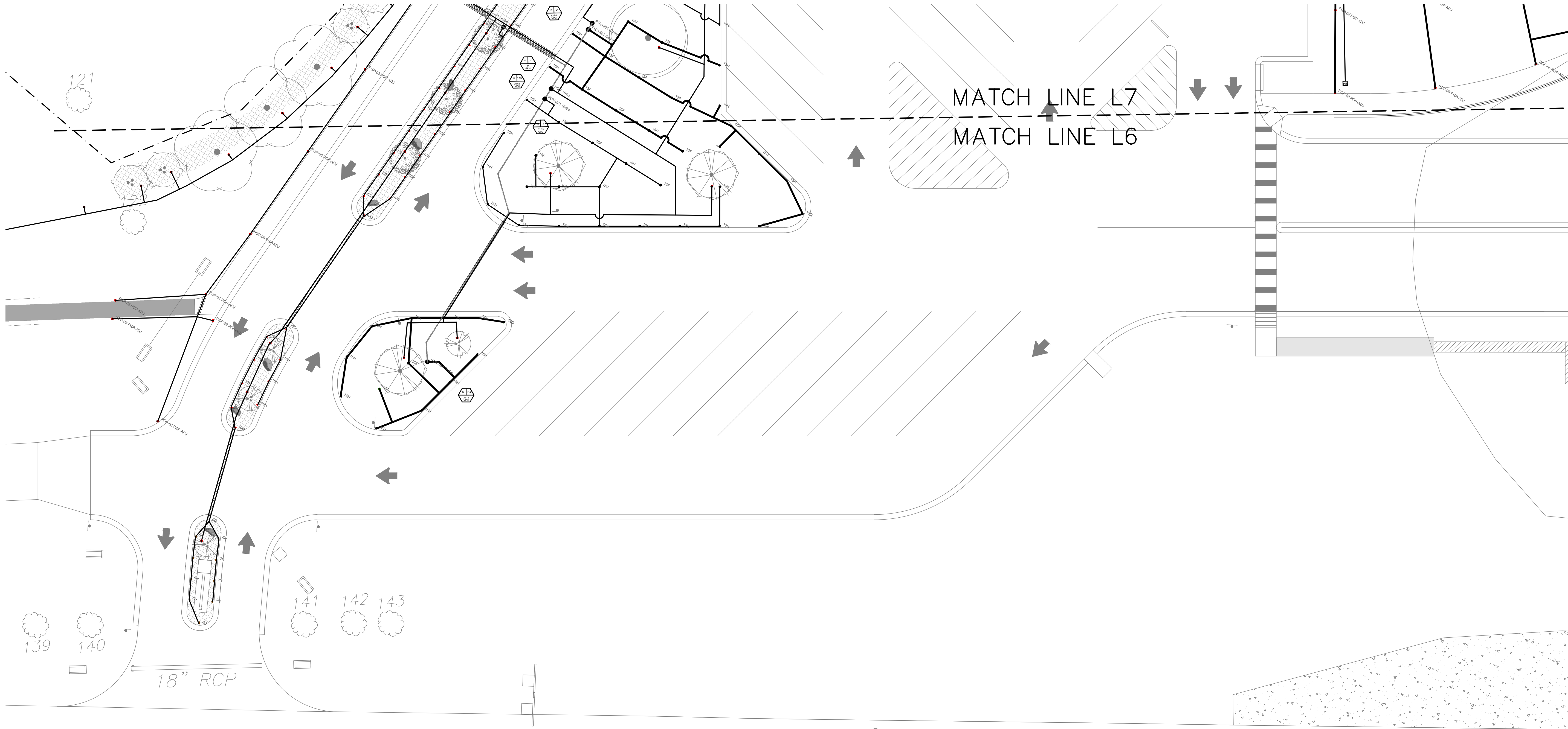
MHS
PLANNING & DESIGN, LLC
Brett A. Berry
212 West Ninth Street, Tyler, Texas 75701
936-597-6006
TXBPE No. 14571 TDAE-DR4525

IRRIGATION PLAN OVERALL
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

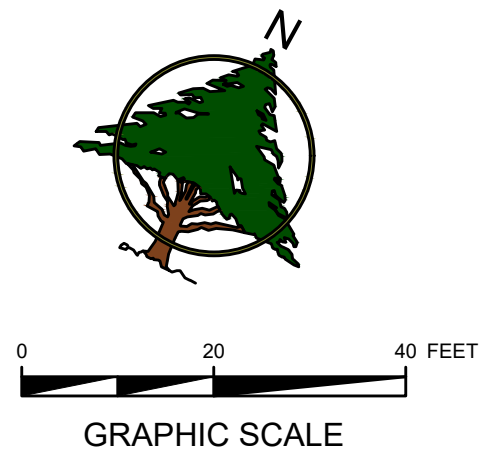
DRAWN: MEP
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

L5

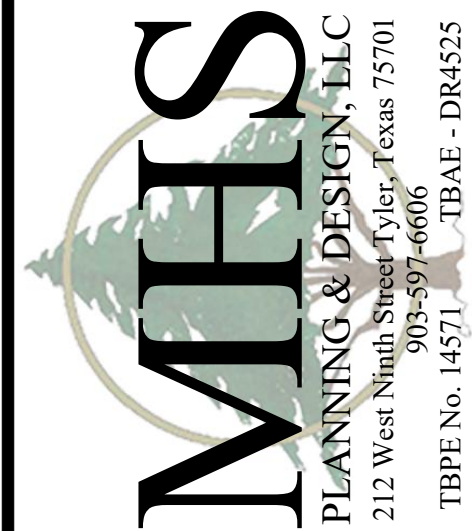
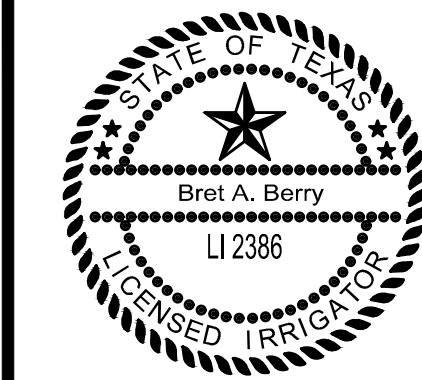
I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\IRRIGATION PLAN.dwg



| Irrigation | | | | | | |
|--------------|--------|------------------------------|---------------|----------|------|--------|
| Qty | Symbol | Description | Part # | Pressure | Flow | Radius |
| 56 | ● | Hunter PCB-10 | PCB-10 | 25 | 1 | 0 |
| 19 | ● | Hunter 4H - PROS-12 | 4H | 30 | 0.44 | 4 |
| 3 | ● | Hunter 4Q - PROS-12 | 4Q | 30 | 0.22 | 4 |
| 8 | ● | Hunter 6H - PROS-12 | 6H | 30 | 0.98 | 6 |
| 1 | ● | Hunter 8H - PROS-06 | 8H | 30 | 0.47 | 8 |
| 18 | ● | Hunter 8H - PROS-12 | 8H | 30 | 0.47 | 8 |
| 2 | ● | Hunter 8Q - PROS-04 | 8Q | 30 | 0.24 | 8 |
| 6 | ● | Hunter 8Q - PROS-12 | 8Q | 30 | 0.24 | 8 |
| 1 | ● | Hunter 10A-120 - PROS-04 | 10A | 30 | 0.65 | 10 |
| 1 | ● | Hunter 10A-270 - PROS-04 | 10A | 30 | 1.47 | 10 |
| 1 | ● | Hunter 10F - PROS-04 | 10F | 30 | 1.59 | 10 |
| 11 | ● | Hunter 10H - PROS-04 | 10H | 30 | 0.88 | 10 |
| 45 | ● | Hunter 10H - PROS-12 | 10H | 30 | 0.88 | 10 |
| 6 | ● | Hunter 10Q - PROS-04 | 10Q | 30 | 0.42 | 10 |
| 8 | ● | Hunter 10Q - PROS-12 | 10Q | 30 | 0.42 | 10 |
| 1 | ● | Hunter 12A-120 - PROS-04 | 12A | 30 | 0.84 | 12 |
| 16 | ● | Hunter 12F - PROS-04 | 12F | 30 | 2.7 | 12 |
| 32 | ● | Hunter 12H - PROS-04 | 12H | 30 | 1.3 | 12 |
| 9 | ● | Hunter 12Q - PROS-04 | 12Q | 30 | 0.67 | 12 |
| 8 | ● | Hunter 15A-120 - PROS-04 | 15A | 30 | 1.24 | 15 |
| 6 | ● | Hunter 15A-240 - PROS-04 | 15A | 30 | 2.48 | 15 |
| 2 | ● | Hunter 15A-270 - PROS-04 | 15A | 30 | 2.79 | 15 |
| 1 | ● | Hunter 15A-45 - PROS-04 | 15A | 30 | 0.47 | 15 |
| 34 | ● | Hunter 15F - PROS-04 | 15F | 30 | 3.75 | 15 |
| 144 | ● | Hunter 15H - PROS-04 | 15H | 30 | 1.86 | 15 |
| 34 | ● | Hunter 15Q - PROS-04 | 15Q | 30 | 0.97 | 15 |
| 21 | ● | Hunter PGP-03 - PGP-ADJ | 03 | 50 | 1.2 | 31 |
| 1 | ● | Hunter PGP-04 - PGP-ADJ | 04 | 50 | 1.6 | 34 |
| 46 | ● | Hunter PGP-05 - PGP-ADJ | 05 | 50 | 2 | 38 |
| 1 | ● | Febco 850 - 2" | 850 - 2" | | | |
| 6 | ● | Hunter PGV-101G | PGV-101G | | | |
| 10 | ● | Hunter PGV-151 Globe | PGV-151 Globe | | | |
| 2 | ● | Hunter PGV-201 Angle | PGV-201 Angle | | | |
| 8 | ● | Hunter PGV-201 Globe | PGV-201 Globe | | | |
| 1 | ● | Hunter IC-3000-PP | IC-3000-PP | | | |
| 1 | ● | Spears 2" Gray PVC - Socket | 2621-020G | | | |
| Class 200 4" | ● | | | | | |
| 697.53 | ● | Ungrounded Hose Bib with Box | | | | |
| 2 | ● | | | | | |
| 645.76 (ft) | ● | Lateral - Class 200 1 1/2" | | | | |
| 1039.3 (ft) | ● | Lateral - Class 200 1 1/4" | | | | |
| 1703.16 (ft) | ● | Lateral - Class 200 1" | | | | |
| 68.4 (ft) | ● | Lateral - Class 200 2 1/2" | | | | |
| 501.64 (ft) | ● | Lateral - Class 200 2" | | | | |
| 1821.44 (ft) | ● | Lateral - Class 200 3/4" | | | | |
| 5059.79 (ft) | ● | Lateral - Class 315 1/2" | | | | |
| 1794.8 (ft) | ● | Mainline - Class 200 2" | | | | |



REVISIONS:



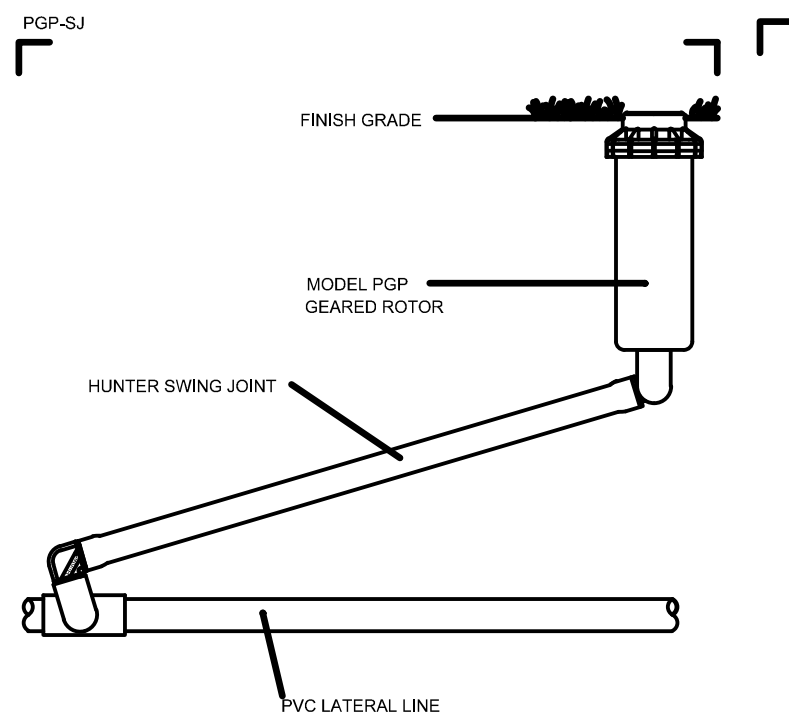
IRRIGATION PLAN I
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

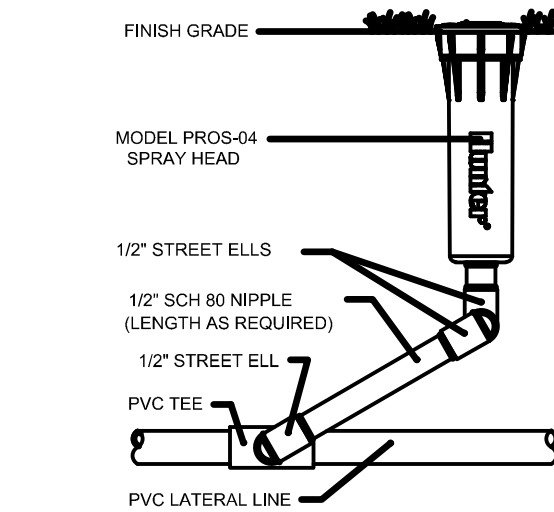
L6

I:\river authorities\21-021 pendleton property park (sabine river authority)\load - phase 203 - production\IRRIGATION PLAN.dwg

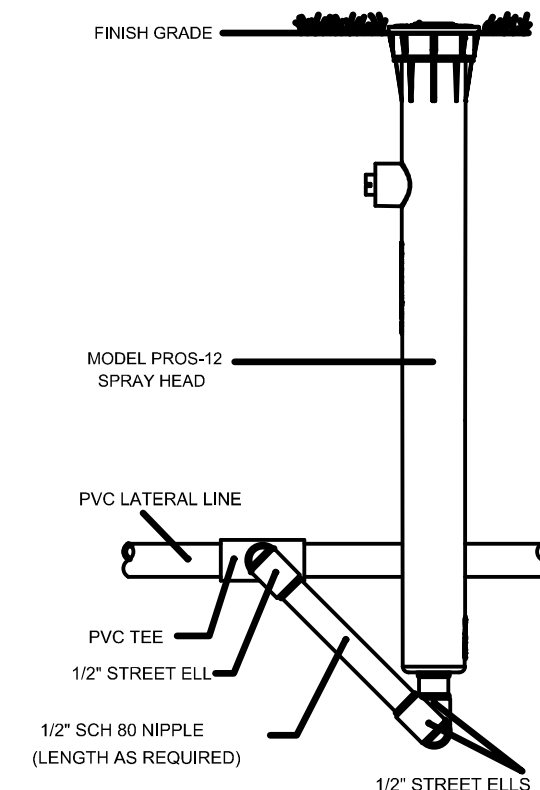
| Irrigation | | | | | | |
|--------------|--------|------------------------------|---------------|----------|------|--------|
| Qty | Symbol | Description | Part # | Pressure | Flow | Radius |
| 56 | | Hunter PCB-10 | PCB-10 | 25 | 1 | 0 |
| 19 | | Hunter 4H - PROS-12 | 4H | 30 | 0.44 | 4 |
| 3 | | Hunter 4Q - PROS-12 | 4Q | 30 | 0.22 | 4 |
| 8 | | Hunter 6H - PROS-12 | 6H | 30 | 0.98 | 6 |
| 1 | | Hunter 8H - PROS-06 | 8H | 30 | 0.47 | 8 |
| 18 | | Hunter 8H - PROS-12 | 8H | 30 | 0.47 | 8 |
| 2 | | Hunter 8Q - PROS-04 | 8Q | 30 | 0.24 | 8 |
| 6 | | Hunter 8Q - PROS-12 | 8Q | 30 | 0.24 | 8 |
| 1 | | Hunter 10A-120 - PROS-04 | 10A | 30 | 0.65 | 10 |
| 1 | | Hunter 10A-270 - PROS-04 | 10A | 30 | 1.47 | 10 |
| 1 | | Hunter 10F - PROS-04 | 10F | 30 | 1.59 | 10 |
| 11 | | Hunter 10H - PROS-04 | 10H | 30 | 0.88 | 10 |
| 45 | | Hunter 10H - PROS-12 | 10H | 30 | 0.88 | 10 |
| 6 | | Hunter 10Q - PROS-04 | 10Q | 30 | 0.42 | 10 |
| 8 | | Hunter 10Q - PROS-12 | 10Q | 30 | 0.42 | 10 |
| 1 | | Hunter 12A-120 - PROS-04 | 12A | 30 | 0.84 | 12 |
| 16 | | Hunter 12F - PROS-04 | 12F | 30 | 2.7 | 12 |
| 32 | | Hunter 12H - PROS-04 | 12H | 30 | 1.3 | 12 |
| 9 | | Hunter 12Q - PROS-04 | 12Q | 30 | 0.87 | 12 |
| 8 | | Hunter 15A-120 - PROS-04 | 15A | 30 | 1.24 | 15 |
| 6 | | Hunter 15A-240 - PROS-04 | 15A | 30 | 2.48 | 15 |
| 2 | | Hunter 15A-270 - PROS-04 | 15A | 30 | 2.79 | 15 |
| 1 | | Hunter 15A-45 - PROS-04 | 15A | 30 | 0.47 | 15 |
| 34 | | Hunter 15F - PROS-04 | 15F | 30 | 3.75 | 15 |
| 144 | | Hunter 15H - PROS-04 | 15H | 30 | 1.86 | 15 |
| 34 | | Hunter 15Q - PROS-04 | 15Q | 30 | 0.97 | 15 |
| 21 | | Hunter PGP-03 - PGP-ADJ | 03 | 50 | 1.2 | 31 |
| 1 | | Hunter PGP-04 - PGP-ADJ | 04 | 50 | 1.6 | 34 |
| 46 | | Hunter PGP-05 - PGP-ADJ | 05 | 50 | 2 | 38 |
| 1 | | Febco 850 - 2" | 850 - 2" | | | |
| 6 | | Hunter PGV-101G | PGV-101G | | | |
| 10 | | Hunter PGV-151 Globe | PGV-151 Globe | | | |
| 2 | | Hunter PGV-201 Angle | PGV-201 Angle | | | |
| 6 | | Hunter PGV-201 Globe | PGV-201 Globe | | | |
| 1 | | Hunter IC-3000-PP | IC-3000-PP | | | |
| 1 | | Spears 2" Gray PVC - Socket | 2621-020G | | | |
| 697.53 | | Class 200 4" | 0 | | | |
| 2 | | Ungrounded Hose Bib with Box | 0 | | | |
| 645.76 (ft) | | Lateral - Class 200 1 1/2" | 0 | | | |
| 1039.3 (ft) | | Lateral - Class 200 1 1/4" | 0 | | | |
| 1703.16 (ft) | | Lateral - Class 200 1" | 0 | | | |
| 68.4 (ft) | | Lateral - Class 200 2 1/2" | 0 | | | |
| 501.84 (ft) | | Lateral - Class 200 2" | 0 | | | |
| 1821.44 (ft) | | Lateral - Class 200 3/4" | 0 | | | |
| 5059.79 (ft) | | Lateral - Class 315 1/2" | 0 | | | |
| 1794.8 (ft) | | Mainline - Class 200 2" | 0 | | | |



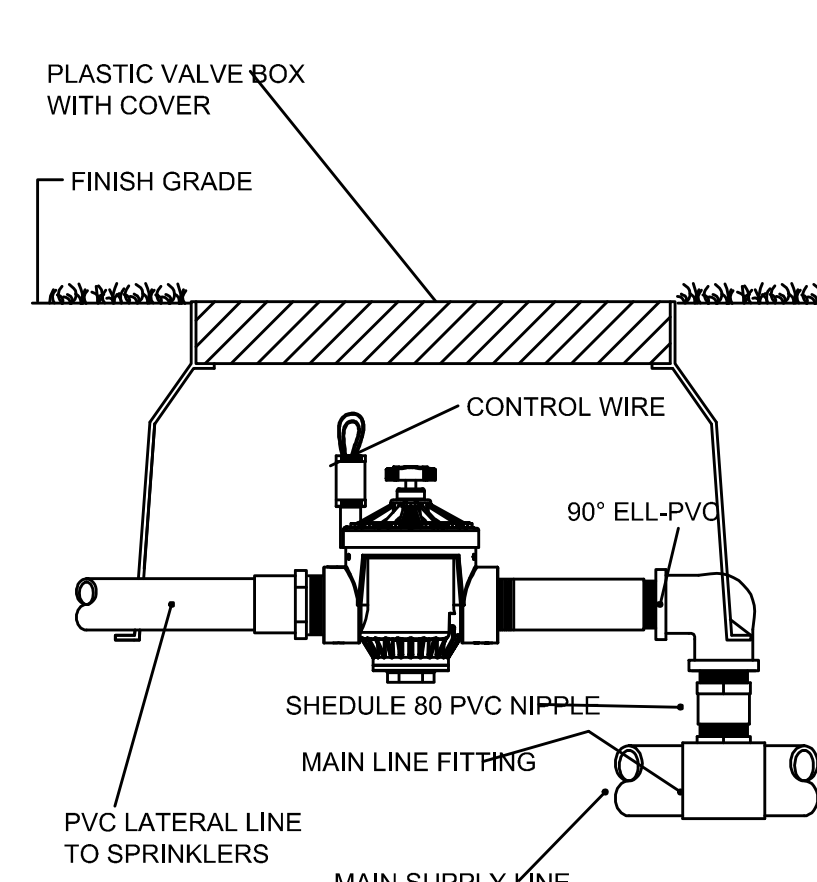
PGP-SJ GEAR DRIVE
NO SCALE INSTALLATION DETAIL
SWING



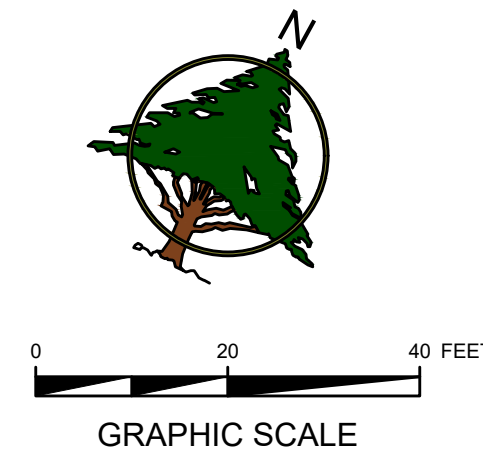
Hunter PROS-04 SPRAY HEAD
NO SCALE INSTALLATION DETAIL
SWING



Hunter PROS-12 SPRAY HEAD
NO SCALE INSTALLATION DETAIL
SWING



Hunter 2" PGV-NP
NO SCALE INSTALLATION DETAIL



MATCH LINE L8
MATCH LINE L7

MATCH LINE L7
MATCH LINE L6



REVISIONS:



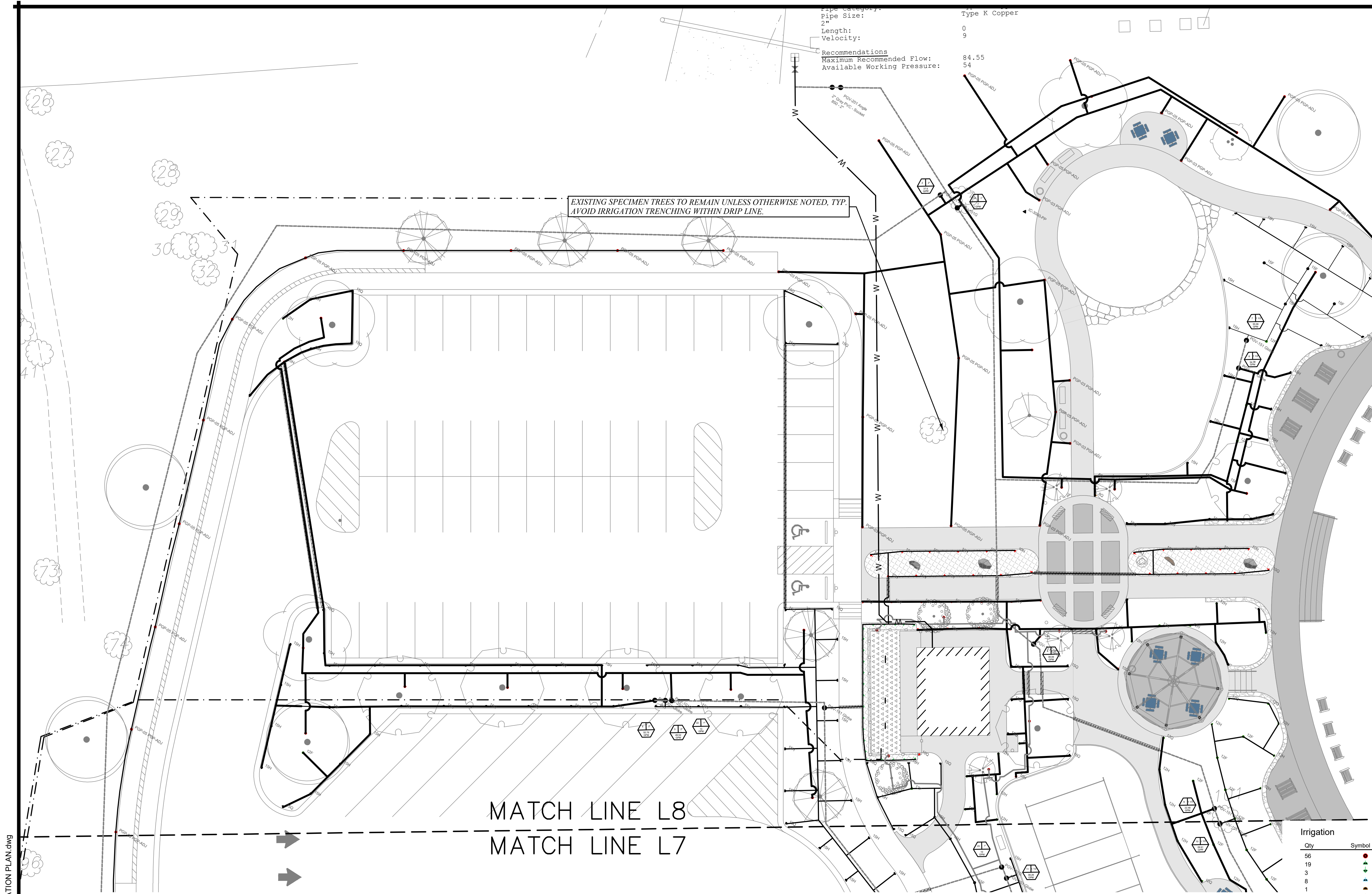
MHS
PLANNING & DESIGN, LLC
Bret A. Berry
212 West Ninth Street, Tyler, Texas 75701
757-591-6006
TXS-591-6006
TDAE-DR4525
TPEP No. 14571

IRRIGATION PLAN II
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP
CHECKED: WHS
DATE: 10/27/2022
SCALE: AS SHOWN
JOB NO.: 21-021

L7

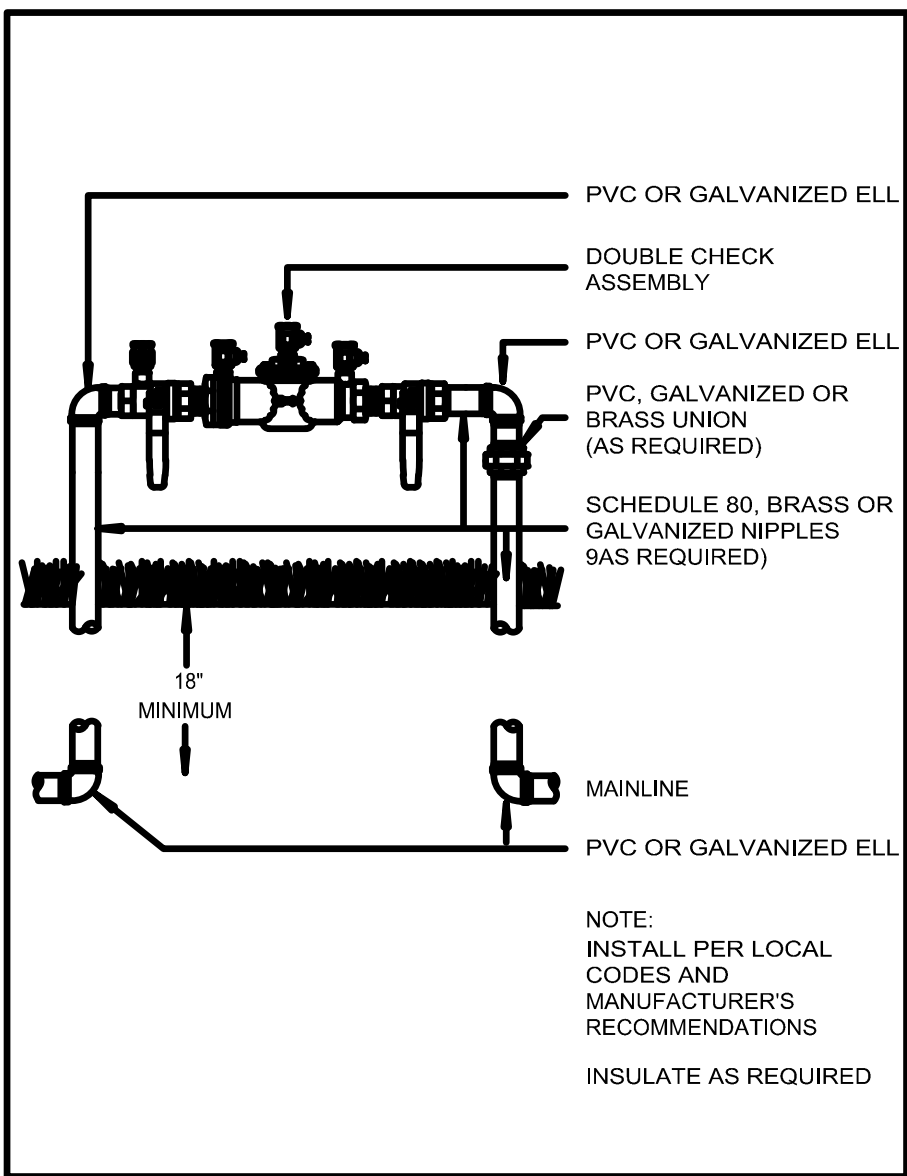
I:\river authorities\21-021 pendleton property park (sabine river authority)\cad - phase 203 - production\IRRIGATION PLAN.dwg



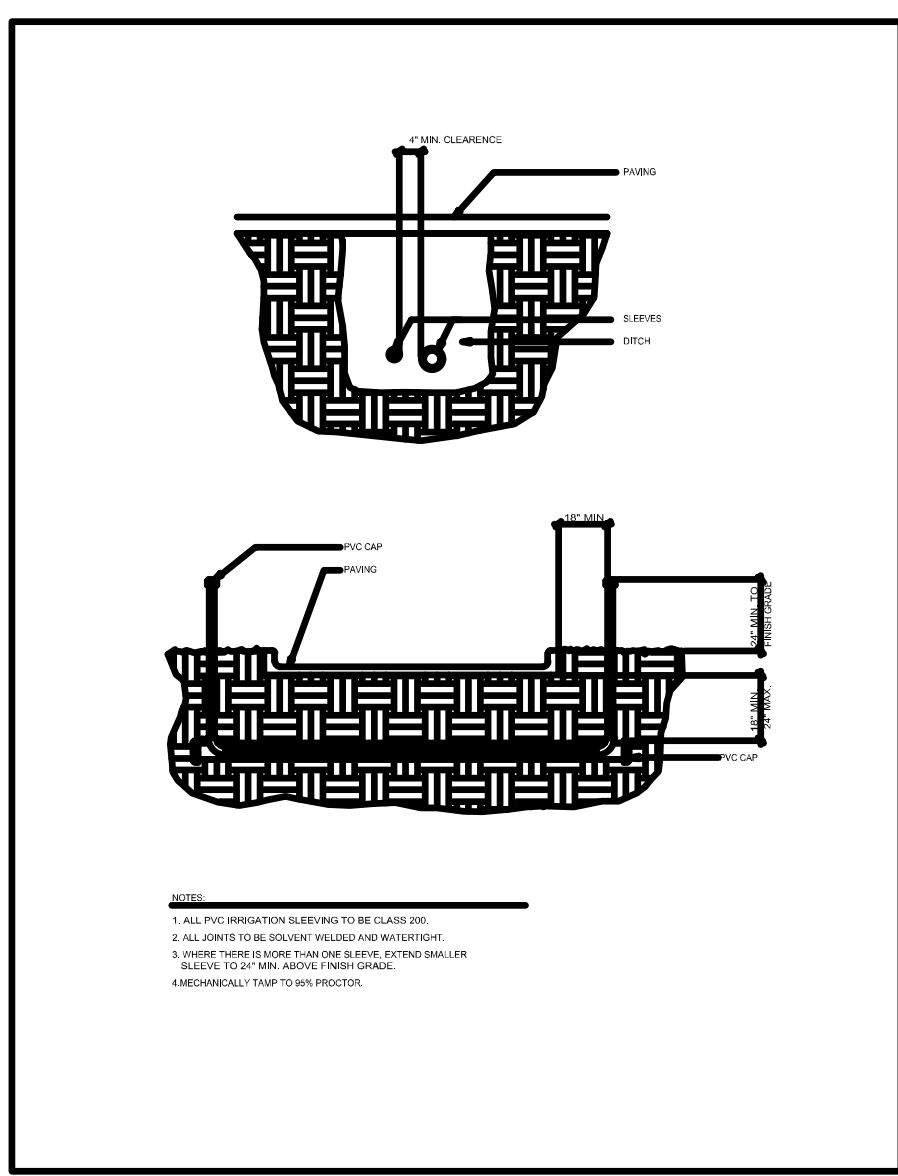
MATCH LINE L8
MATCH LINE L7

Irrigation

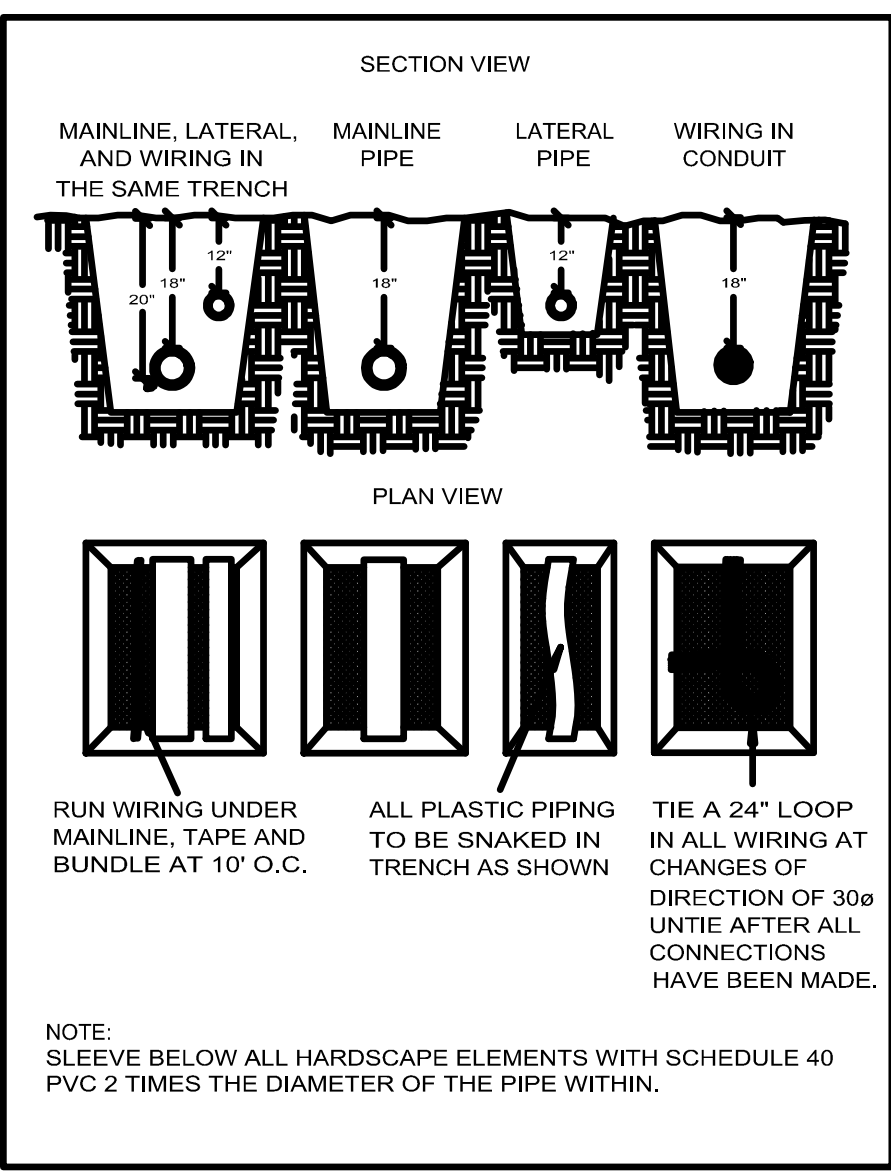
| Qty | Symbol | Description | Part # | Pressure | Flow | Radius |
|--------------|--------|------------------------------|---------------|----------|------|--------|
| 56 | ● | Hunter PCB-10 | PCB-10 | 25 | 1 | 0 |
| 19 | ▲ | Hunter 4H - PROS-12 | 4H | 30 | 0.44 | 4 |
| 3 | ▲ | Hunter 4Q - PROS-12 | 4Q | 30 | 0.22 | 4 |
| 8 | ▲ | Hunter 6H - PROS-12 | 6H | 30 | 0.98 | 6 |
| 1 | ▲ | Hunter 8H - PROS-06 | 8H | 30 | 0.47 | 8 |
| 18 | ▲ | Hunter 8H - PROS-12 | 8H | 30 | 0.47 | 8 |
| 2 | ▲ | Hunter 8Q - PROS-04 | 8Q | 30 | 0.24 | 8 |
| 6 | ▲ | Hunter 8Q - PROS-12 | 8Q | 30 | 0.24 | 8 |
| 1 | ▲ | Hunter 10A-120 - PROS-04 | 10A | 30 | 0.65 | 10 |
| 1 | ▲ | Hunter 10A-270 - PROS-04 | 10A | 30 | 1.47 | 10 |
| 1 | ▲ | Hunter 10F - PROS-04 | 10F | 30 | 1.59 | 10 |
| 11 | ▲ | Hunter 10H - PROS-04 | 10H | 30 | 0.88 | 10 |
| 45 | ▲ | Hunter 10H - PROS-12 | 10H | 30 | 0.88 | 10 |
| 6 | ▲ | Hunter 10Q - PROS-04 | 10Q | 30 | 0.42 | 10 |
| 8 | ▲ | Hunter 10Q - PROS-12 | 10Q | 30 | 0.42 | 10 |
| 1 | ▲ | Hunter 12A-120 - PROS-04 | 12A | 30 | 0.84 | 12 |
| 16 | ▲ | Hunter 12F - PROS-04 | 12F | 30 | 2.7 | 12 |
| 32 | ▲ | Hunter 12H - PROS-04 | 12H | 30 | 1.3 | 12 |
| 9 | ▲ | Hunter 12Q - PROS-04 | 12Q | 30 | 0.67 | 12 |
| 8 | ▲ | Hunter 15A-120 - PROS-04 | 15A | 30 | 1.24 | 15 |
| 6 | ▲ | Hunter 15A-240 - PROS-04 | 15A | 30 | 2.48 | 15 |
| 2 | ▲ | Hunter 15A-270 - PROS-04 | 15A | 30 | 2.79 | 15 |
| 1 | ▲ | Hunter 15A-45 - PROS-04 | 15A | 30 | 0.47 | 15 |
| 34 | ▲ | Hunter 15F - PROS-04 | 15F | 30 | 3.75 | 15 |
| 144 | ▲ | Hunter 15H - PROS-04 | 15H | 30 | 1.86 | 15 |
| 34 | ▲ | Hunter 15Q - PROS-04 | 15Q | 30 | 0.97 | 15 |
| 21 | ▲ | Hunter PGP-03 - PGP-ADJ | 03 | 50 | 1.2 | 31 |
| 1 | ▲ | Hunter PGP-04 - PGP-ADJ | 04 | 50 | 1.6 | 34 |
| 46 | ▲ | Hunter PGP-05 - PGP-ADJ | 05 | 50 | 2 | 38 |
| 1 | ▲ | Feeco 850 - 2" | 850 - 2" | | | |
| 6 | ▲ | Hunter PGV-101G | PGV-101G | | | |
| 10 | ▲ | Hunter PGV-151 Globe | PGV-151 Globe | | | |
| 2 | ▲ | Hunter PGV-201 Angle | PGV-201 Angle | | | |
| 8 | ▲ | Hunter PGV-201 Globe | PGV-201 Globe | | | |
| 1 | ▲ | Hunter IC-3000-PP | IC-3000-PP | | | |
| 1 | ▲ | Spears 2" Gray PVC - Socket | 2621-020G | | | |
| 697.53 | ▲ | Class 200 4" | 0 | | | |
| 2 | ▲ | Ungrounded Hose Bib with Box | 0 | | | |
| 645.76 (ft) | ▲ | Lateral - Class 200 1 1/2" | 0 | | | |
| 1039.3 (ft) | ▲ | Lateral - Class 200 1 1/4" | 0 | | | |
| 1703.16 (ft) | ▲ | Lateral - Class 200 1" | 0 | | | |
| 68.4 (ft) | ▲ | Lateral - Class 200 2 1/2" | 0 | | | |
| 521.64 (ft) | ▲ | Lateral - Class 200 2" | 0 | | | |
| 1821.44 (ft) | ▲ | Lateral - Class 200 3/4" | 0 | | | |
| 5059.79 (ft) | ▲ | Lateral - Class 315 1/2" | 0 | | | |
| 1794.8 (ft) | ▲ | Mainline - Class 200 2" | 0 | | | |



DOUBLE CHECK ASSEMBLY

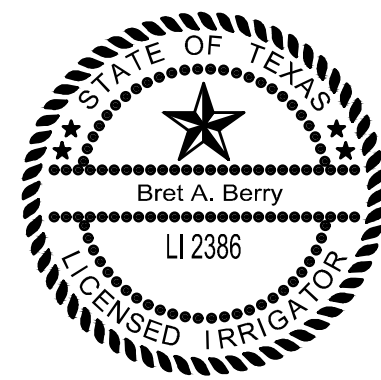


IRRIGATION SLEEVING



PIPE & WIRE TRENCHING

REVISIONS:



MHS
PLANNING & DESIGN, LLC
Brett A. Berry
212 West Ninth Street, Suite 7501
Dallas, Texas 75201
TEPE No. 14571 TDAE - DR4525

IRRIGATION PLAN III PENDLETON PROPERTY PHASE 2 SABINE RIVER AUTHORITY OF TEXAS

DRAWN: MEP

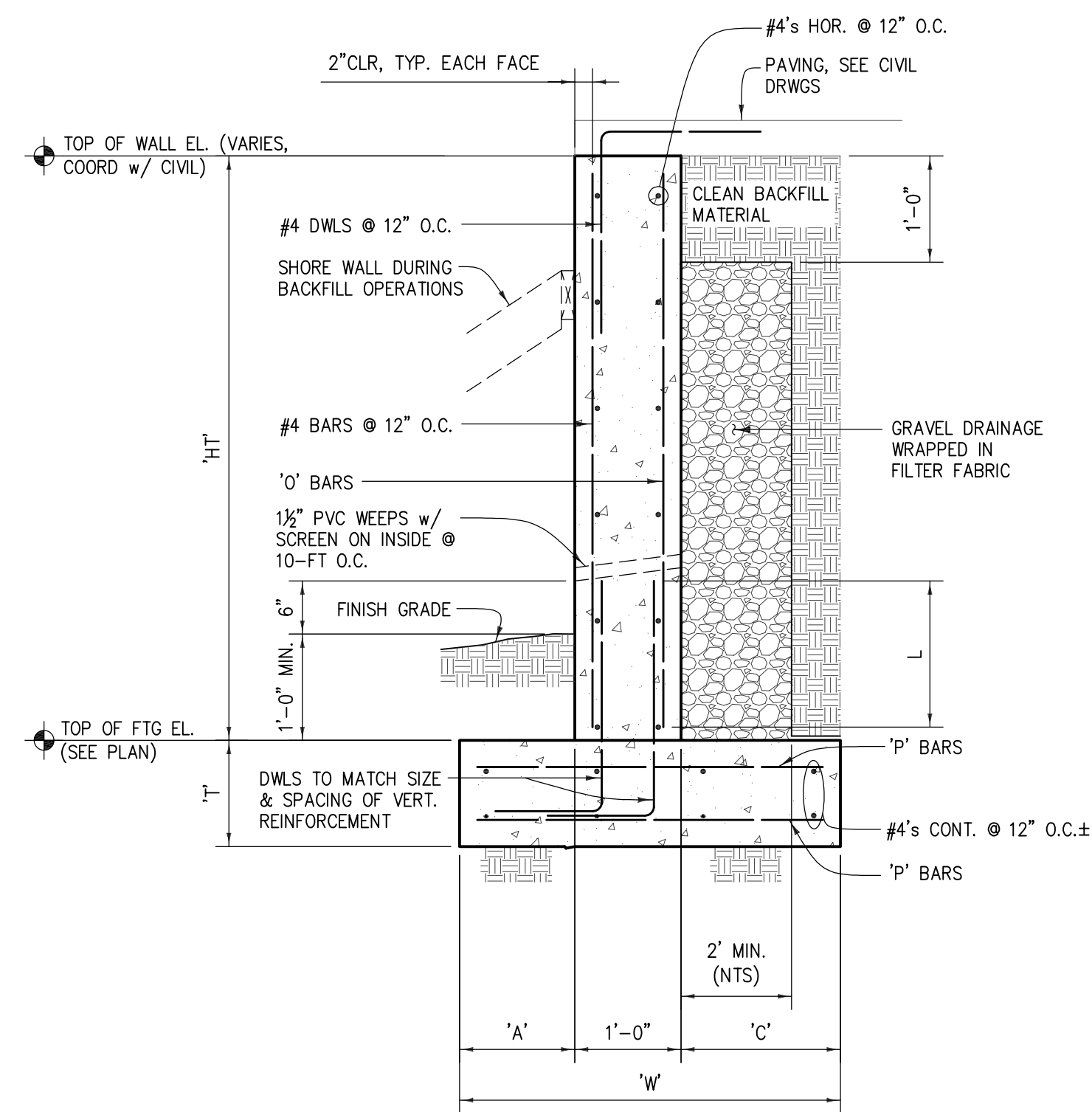
CHECKED: WHS

DATE: 10/27/2022

SCALE: AS SHOWN

JOB NO.: 21-021

L8

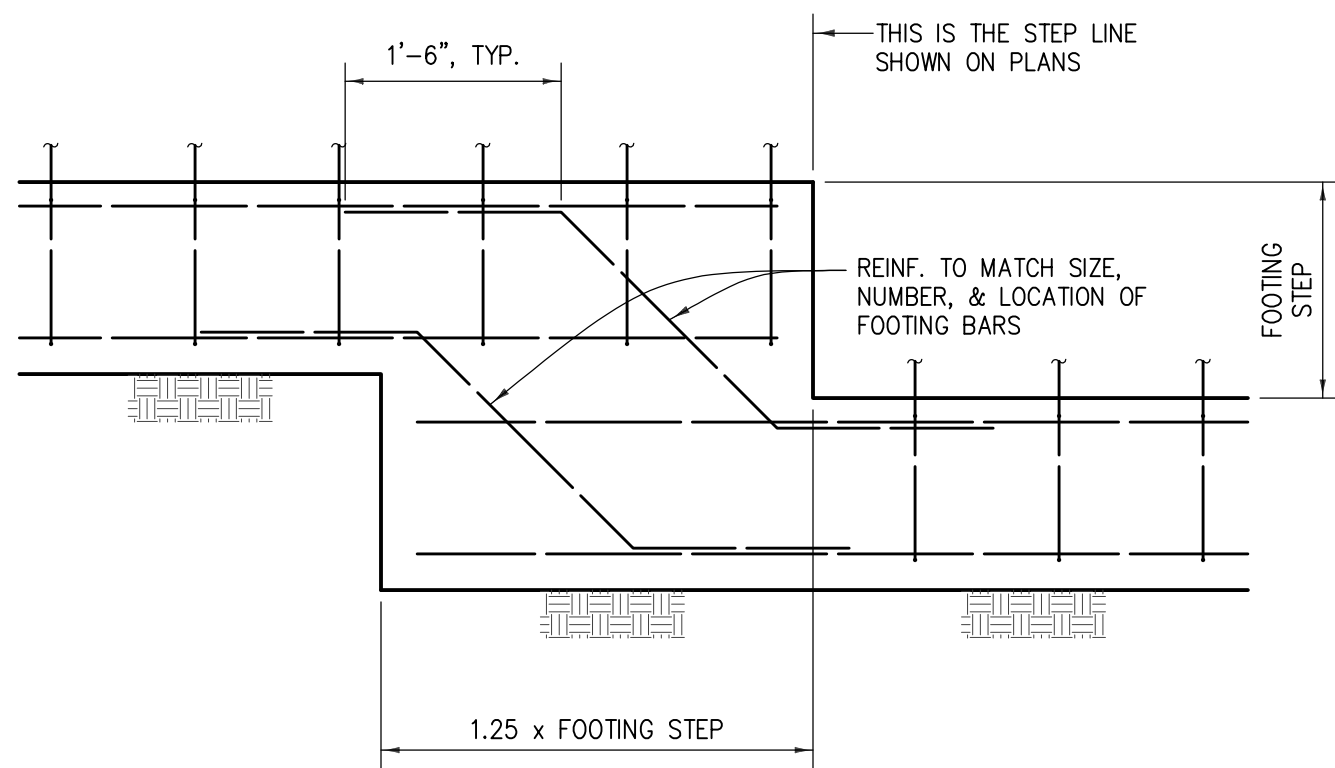


| RETAINING WALL SCHEDULE | | | | | | | |
|-------------------------|-------|--------|-----|-------|-------------------|----------|------------|
| WALL HEIGHT 'HT' | 'A' | 'C' | 'T' | 'W' | REINFORCING STEEL | | LAP (MIN.) |
| | | | | | 'O' | 'P' | 'L' |
| 0' TO 5'-0" | 1'-0" | 1'-10" | 12" | 3'-6" | #4 @ 12" | #4 @ 12" | - |
| 5'-11" TO 10'-0" | 3'-0" | 4'-0" | 12" | 8'-0" | #6 @ 12" | #6 @ 12" | 2'-6" |

NOTES:
1. SEE 2/S1 FOR WALL FOOTING STEP DETAIL &
3/S1 FOR CORNER BAR DETAIL.

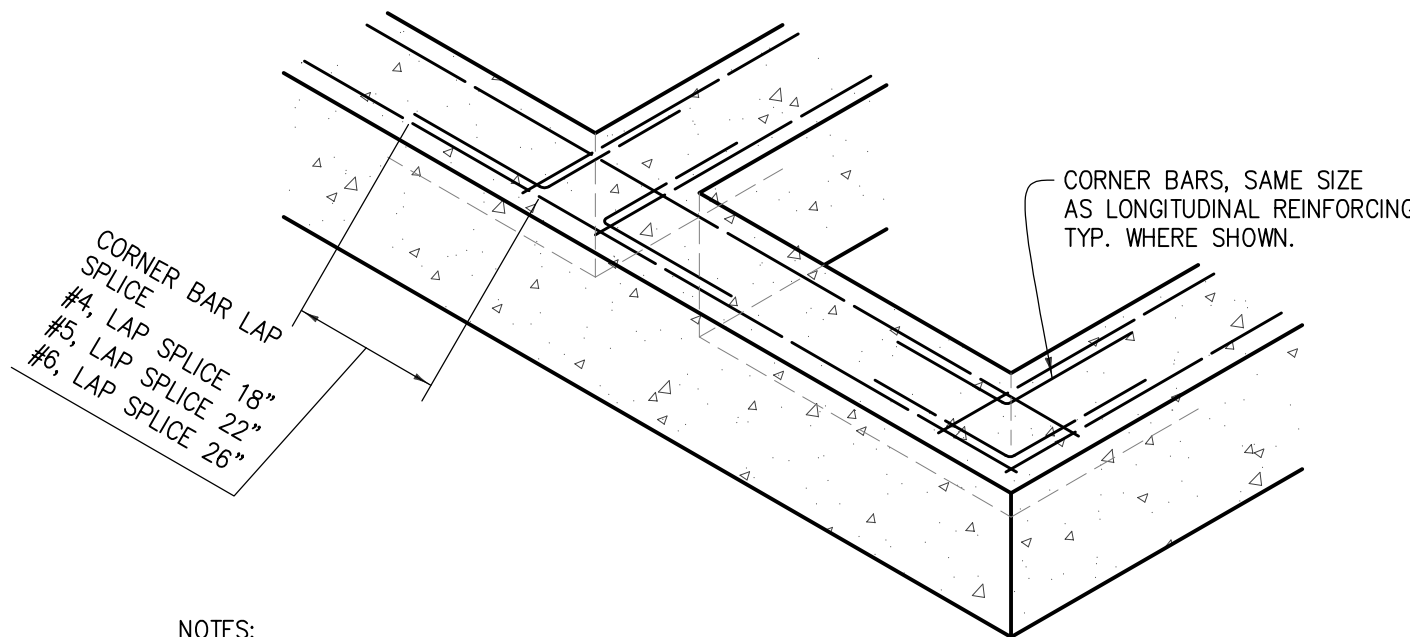
RETAINING WALL DETAIL & SCHEDULE

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



WALL FTG STEP DETAIL

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

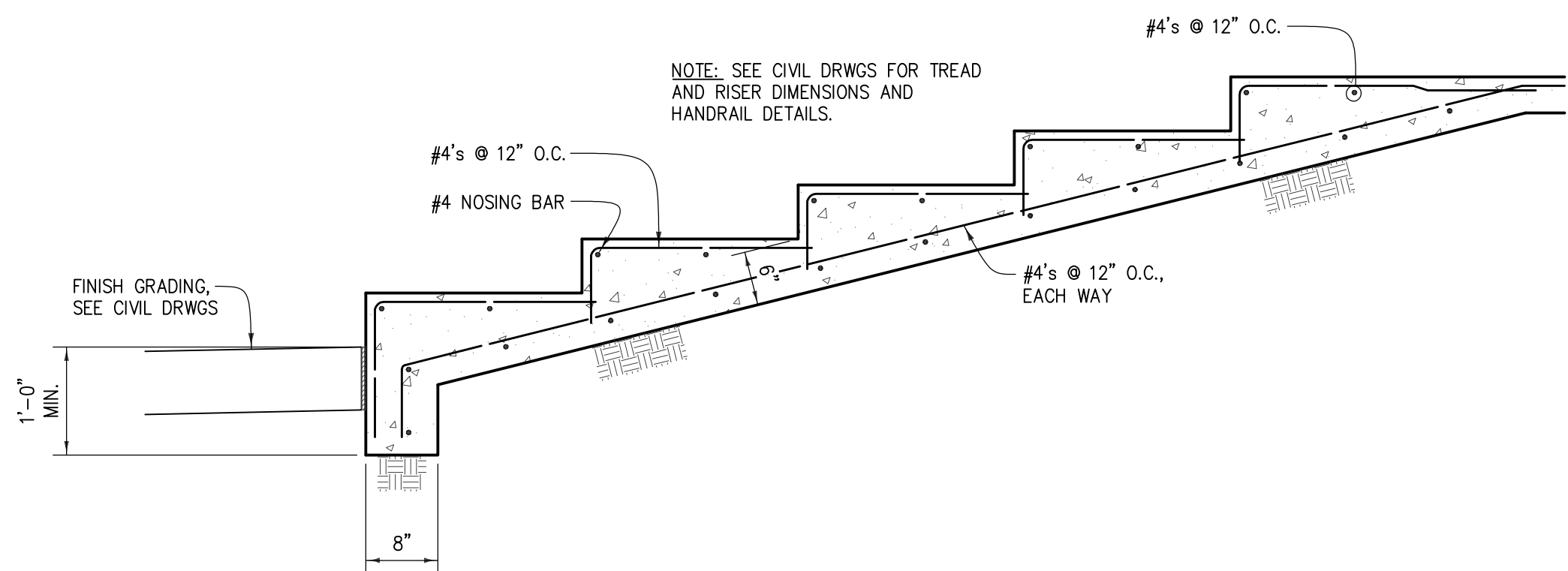


NOTES:

1. CORNER BARS ARE REQUIRED IN ALL CONCRETE BEAMS, WALLS, AND CMU BONDBEAMS.
2. TOP STEEL ONLY IS DEPICTED IN THIS DETAIL, BUT CORNER BARS ARE REQUIRED FOR ALL LEVELS OF LONGITUDINAL REBAR.

CORNER BAR DETAIL

SCALE: N.T.S.



SECTION

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



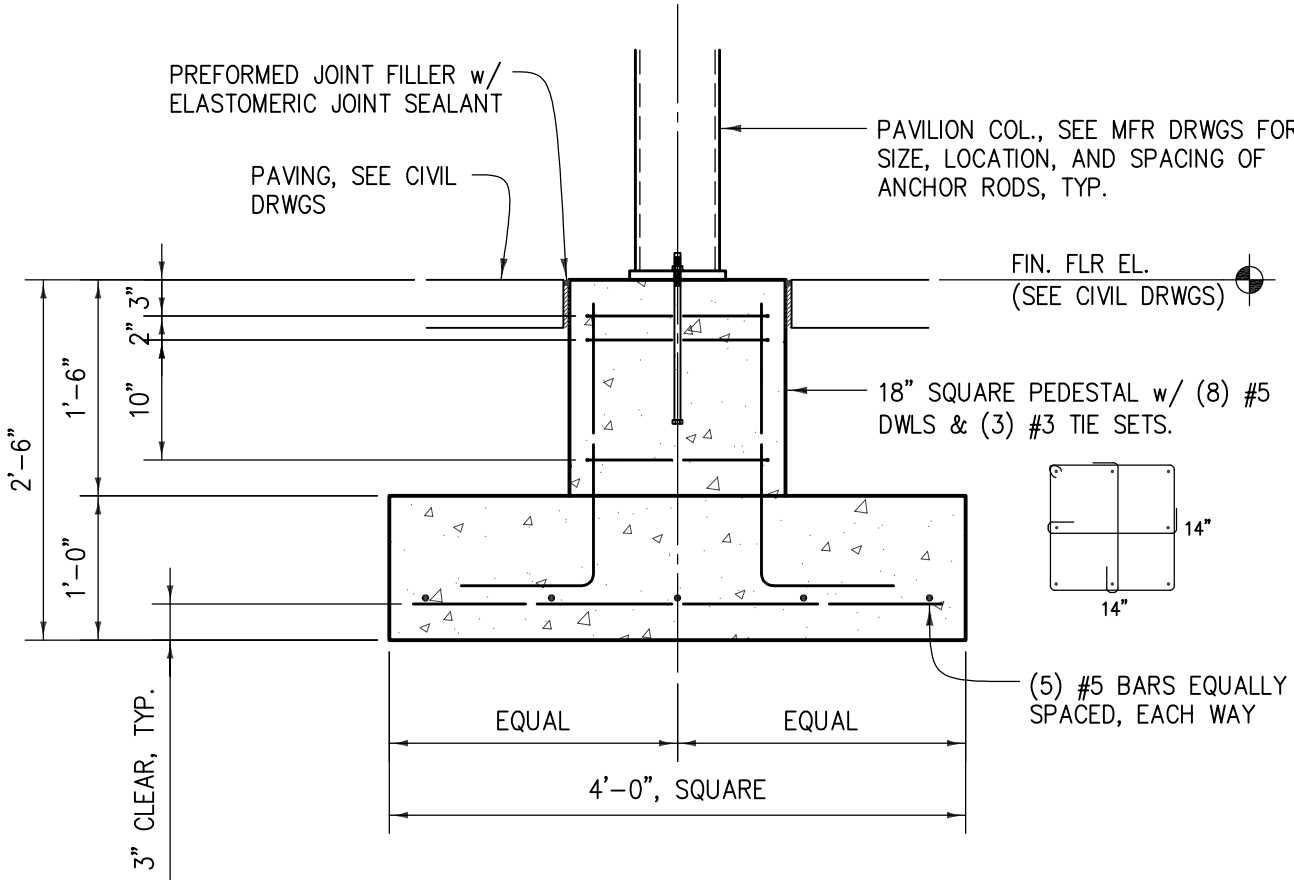
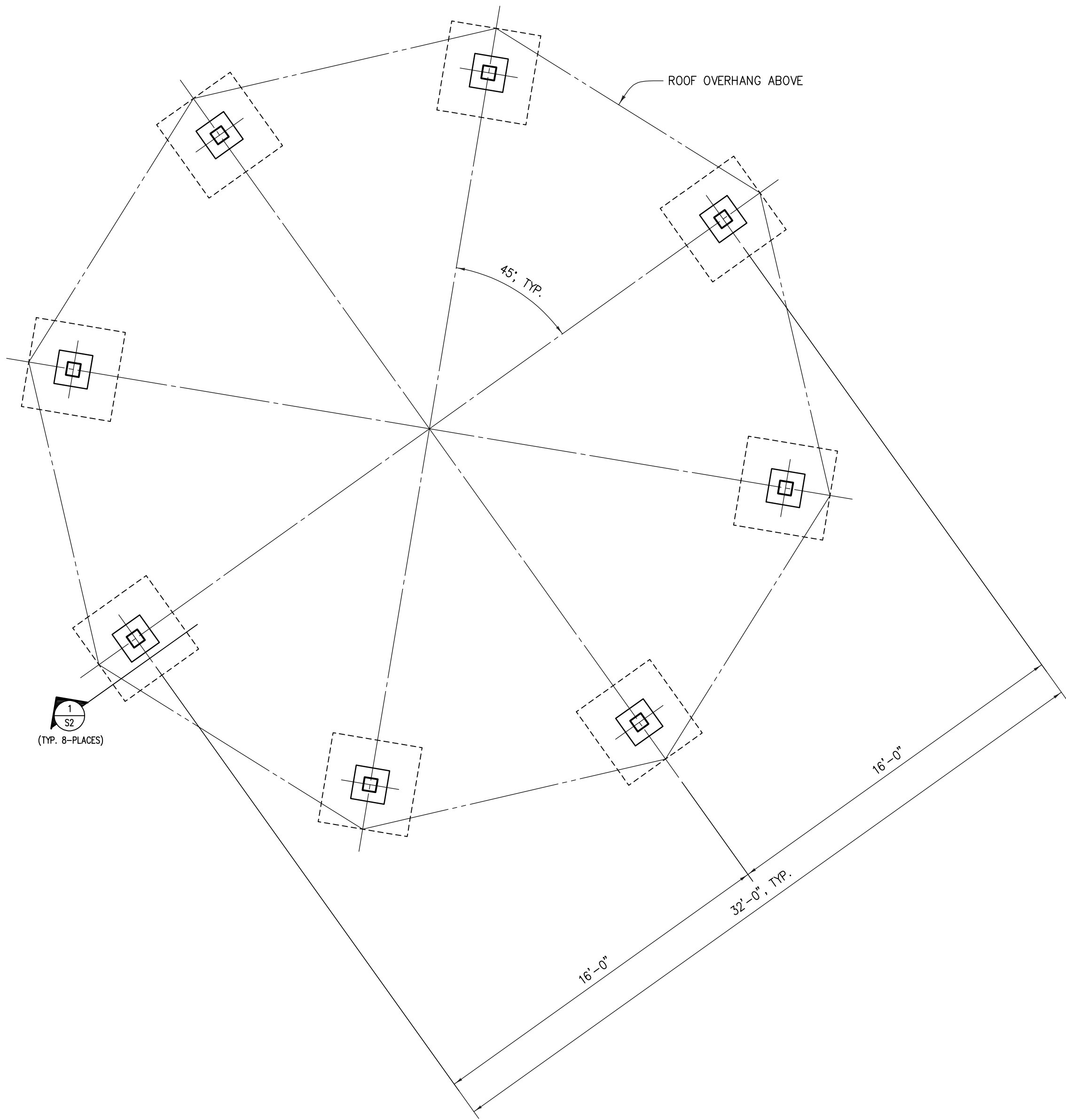
FDN PLAN, SECTIONS, & DETAILS

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|------------|
| DRAWN: | RSK |
| CHECKED: | SDM |
| DATE: | 04/07/2022 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

S1



- GENERAL NOTES:**
1. The Contractor shall verify field dimensions and conditions before construction and notify the Engineer of any discrepancies or inconsistencies before proceeding with the work.
 2. The general contractor shall be solely responsible for all coordination with sub-contractors.
 3. In case of discrepancies and elevations between structural and civil drawings, the contractor shall verify with the Engineer prior to fabrication and construction.
 4. The latest edition of ACI, and CRSI specifications shall govern all phases of fabrication and construction.

- REINFORCING STEEL NOTES:**
1. All reinforcing steel shall be new billet, ASTM A615 grade 60 deformed domestic bars. All detailing, fabrication, placing, and supporting shall be in accordance with ACI 318 and CRSI.
 2. All dowels shall be the same size and spacing as adjoining main bars with a Class B lap splice, minimum unless noted of detailed otherwise. Splice all continuous bars with a Class B lap splice, minimum unless noted or detailed otherwise.
 3. Clear minimum coverage of concrete over reinforcing bars shall be as follows unless noted or detailed otherwise:

| | |
|--|------------------------|
| concrete placed against earth..... | 3 inches |
| formed concrete against earth..... | 2 inches |
| beams to ties/stirrups..... | 1 1/2 inches |
| top and bottom of suspended slabs..... | 3/4 inches or bar dia. |
 4. All reinforcing bars, W.W.F., bolts, dowels, inserts, etc., shall be rigidly secured in position prior to placing concrete.
 5. Contractor shall submit complete shop and placing drawings and obtain approval prior to fabrication.

- FOUNDATION NOTES:**
1. Foundation design is based on the soil investigation by Terracon Consultants Inc., Project No. 93215101. Subgrade preparation shall be in accordance with the Earthwork section of the Soil Report. All subgrade preparation, fill installation, and foundation installation shall be in strict accordance with the Soil Report.
 2. Spread and continuous footings shall bear on properly compacted select fill at a minimum of 18 inches below the lowest adjacent finish grade with a net allowable bearing capacity of 2,000 psf and 1,600 psf, respectively.
 3. Contractor shall provide for dewatering at excavations from either surface water or seepage. Contractor shall provide adequate shoring to prevent cave-ins.
 4. All foundation excavations and subgrade preparation shall be inspected by a representative of the Geotechnical Engineer prior to placement of reinforcing steel or concrete.

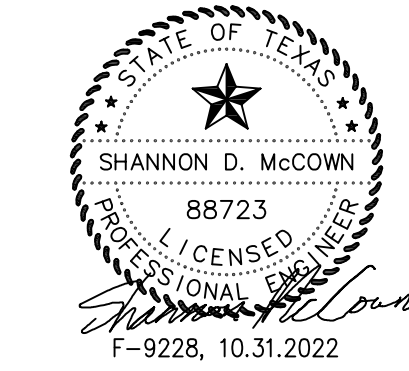
- CONCRETE NOTES:**
1. The concrete supplier shall submit concrete mix design data to the Engineer for review prior to construction.
 2. Materials shall conform with:
 - A. Cement—ASTM C150 Type I or II
 - B. Aggregate—ASTM C33
 - C. Water — Potable
 3. Use the following table for guidance in preparing mix designs for the given type of pour:

| CONCRETE MIX DESIGN PARAMETERS | | | | | | |
|--------------------------------|-----------------------------|----------|------------------------------|--------------|-------------|---------------------|
| TYPE OF POUR | 28 DAY COMPRESSIVE STRENGTH | MAX. WCR | MIN. CEMENT CONTENT (LBS/CY) | TARGET SLUMP | AIR CONTENT | MAX. AGGREGATE SIZE |
| all concrete | 4000 psi | 0.48 | 517 | 4" | 4% to 7% | 1" |
| | | | | | | |

4. Proportioning of concrete mix designs shall be determined by the procedures established in Section 5.3 of ACI 318. The concrete supplier shall submit concrete mix designs to the Engineer for review and approval prior to construction.
5. Slumps of pumped concrete placed without a pump aid admixture shall not exceed 6" at the pump hopper and shall not exceed the specified values at the discharge nozzle. In not case shall the concrete water-cement ratio be increased.
6. Flyash and other pozzolans shall conform to ASTM C-618 and shall not make up more than 20 percent of the total cementitious materials by weight. Do not use flyash in concrete when the temperature during placement or curing is projected to fall below 50° F.

- CAST-IN-PLACE CONCRETE EXECUTION NOTES:**
1. All concrete is reinforced unless specifically noted as 'unreinforced'. Reinforce all concrete not otherwise shown with the same steel as shown in similar sections. Comply with ACI 304, Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete.
 2. Cold weather conditions: When air temperature has fallen to or is expected to fall below 40 deg. F, all concrete placement shall comply with the provisions of ACI 306 and as herein specified. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
 3. Hot weather conditions: When air temperature exceeds 90 deg. F, all concrete shall comply with the provisions of ACI 305 and as herein specified.
 4. Perform curing of concrete by curing and sealing compound, by moist curing, moisture-retaining cover curing, or by combinations thereof.
 5. Coordinate concrete finishes, recessed areas, reveals, embedded items, special joint patterns, etc. with the Civil drawings and specifications. No aluminum items shall be embedded in concrete.
 6. All openings in concrete slabs shall be reinforced with (1) #3 rebar (opening dimension plus 2 feet each side) along each side of opening, and (1) #3 x 48 inches diagonally at each corner. Reinforce all re-entrant corners with (1) #3 x 48 inches diagonally. Add additional steel to match above for each layer of steel shown.

REVISIONS:



SMALL PAVILION FOUNDATION PLAN,
SECTION, & NOTES
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: RSK

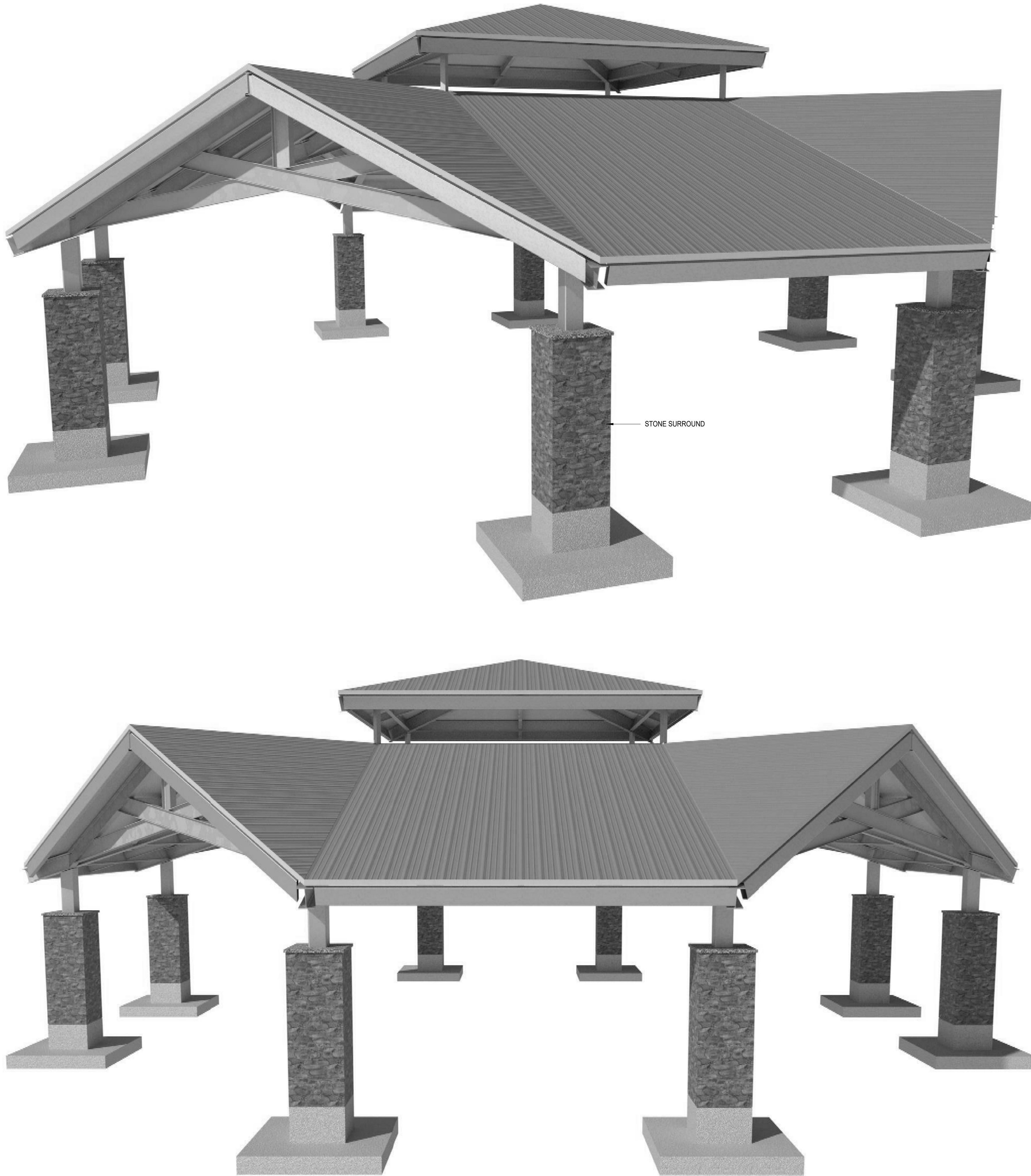
CHECKED: SDM

DATE: 04/07/2022

SCALE: AS SHOWN

JOB NO.: 21-021

S2

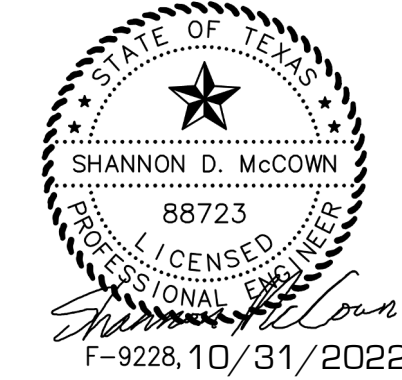


- STRUCTURAL STEEL NOTES:**
1. All structural steel design, fabrication, and erection shall conform to the latest edition of the AISC Manual of Steel Construction "Specification for Structural Steel Buildings - Allowable Stress Design." Steel for wide flanges shall conform to ASTM A992, hollow structural sections shall conform to ASTM A500 grade B, pipes shall conform to ASTM A53 grade B, all other structural steel shapes and plate shall conform to ASTM A36.
 2. Steel members shall be adequately supported or held in position during welding. Procedure and sequence of welding shall be such that there shall be no distortion of members or buildup of localized stresses due to welding.
 3. All structural bolts shall be 3/4" AISC A325-N, bearing type, tightened to the snug-tight condition, unless noted otherwise in the details. Pretensioned connections shall be made using either load indicating washers (DLI) or turn of the nut method. Installation and inspection shall be in strict accordance with sections 8.2.4 and 9.2.4 of the RCSC "Specification for Structural Joints Using High Strength Bolts". All bolt holes shall be standard size; 1/16" larger than the bolt diameter, unless noted otherwise.
 4. All structural connections shall be seal welded with a minimum 3/16" fillet weld. All connections requiring butt welds shall be a minimum 1/4" partial penetration welds. All welds shall be continuous along all edges or surfaces in contact with each other. Any exceptions to these requirements shall be noted on the specific details for the affected joint.
 5. All welding shall conform to the recommendations of the AWS, and all welds, including field, shall be made only by certified welders using E70XX electrodes.
 6. All holes cut in structural steel shall be drilled or punched. Burned holes are not acceptable.
 7. The corners of all continuity plates and stiffener plates placed in the webs of rolled shapes shall be clipped. Along the web, the clip shall be detailed so that the clip extends a distance of at least 1 1/2" beyond the 'k' dimension. Along the flange, the clip shall be detailed so that the clip does not exceed a distance of 1/2" beyond the 'k1' dimension. The clip shall be detailed to facilitate suitable weld terminations for both the flange weld and the web weld. If a cured slip is used, it shall have a minimum radius of 1/2".
 8. Contractor shall submit complete shop drawings and obtain approval prior to fabrication.
 9. Roof decking shall be McElroy Metal's standard exposed-fastener, tapered-rib, 11/4" deep, 26 gauge metal R-panel or equivalent. Panels shall be Kynar 500 (PVDF) coated, color to be determined by owner. Install butyl or polyurethane sealant at all panel lap joints. Panel/panel & panel/decking connections shall be made with TEK'S #12 x 1 1/2", hex head, metal-to-wood, zinc-plated screws (or equivalent) with a 1/2" o.d. formed steel washer and a neoprene sealing washer. Fasten panels to decking @ 12" o.c., beginning 2 1/2" from the centerline of each major rib. At panel splices, fasten panels to decking in a 7", 5", 7", 5" pattern, beginning 2 1/2" from the centerline of each major rib. Panel to panel connections at side laps shall occur at each purlin and 20" o.c. between. Contractor shall supply and coordinate with owner on roof panel trim and flashing. Install all trim and flashing in accordance with manufacturer's written instructions.
 10. All structural steel shall have one shop coat of rust inhibitor primer paint conforming to the specifications. Coordinate finish paint with owner. Field touch up all unpainted, nicked and welded areas.

- TIMBER FRAMING NOTES:**
1. Plywood for roof decking shall conform to the requirements in DOC PS 1 or PS 2. Each panel shall be identified for grade and glue type by the trademarks of an approved testing and grading agency. Roof decking shall be 5/8 inch, 5-ply, C-D INT-APA with exterior glue, Exposure 1 (span index 48/24). Nailing for plywood roof sheathing shall be Simpson N8 (0.131"x1 1/2") nails at 6 inches on center along plywood edges and 12 inches on center along 2'-0" row spacing.
 2. Tongue and groove decking shall be fastened to each support with one (1) 10d nail through the tongue and one (1) 10d nail through the face. Coordinate finish paint/coating with owner.
 3. Sawn lumber shall be #2 K.D. southern yellow pine, moisture content 15 percent with the following allowable stresses for a 2x4:

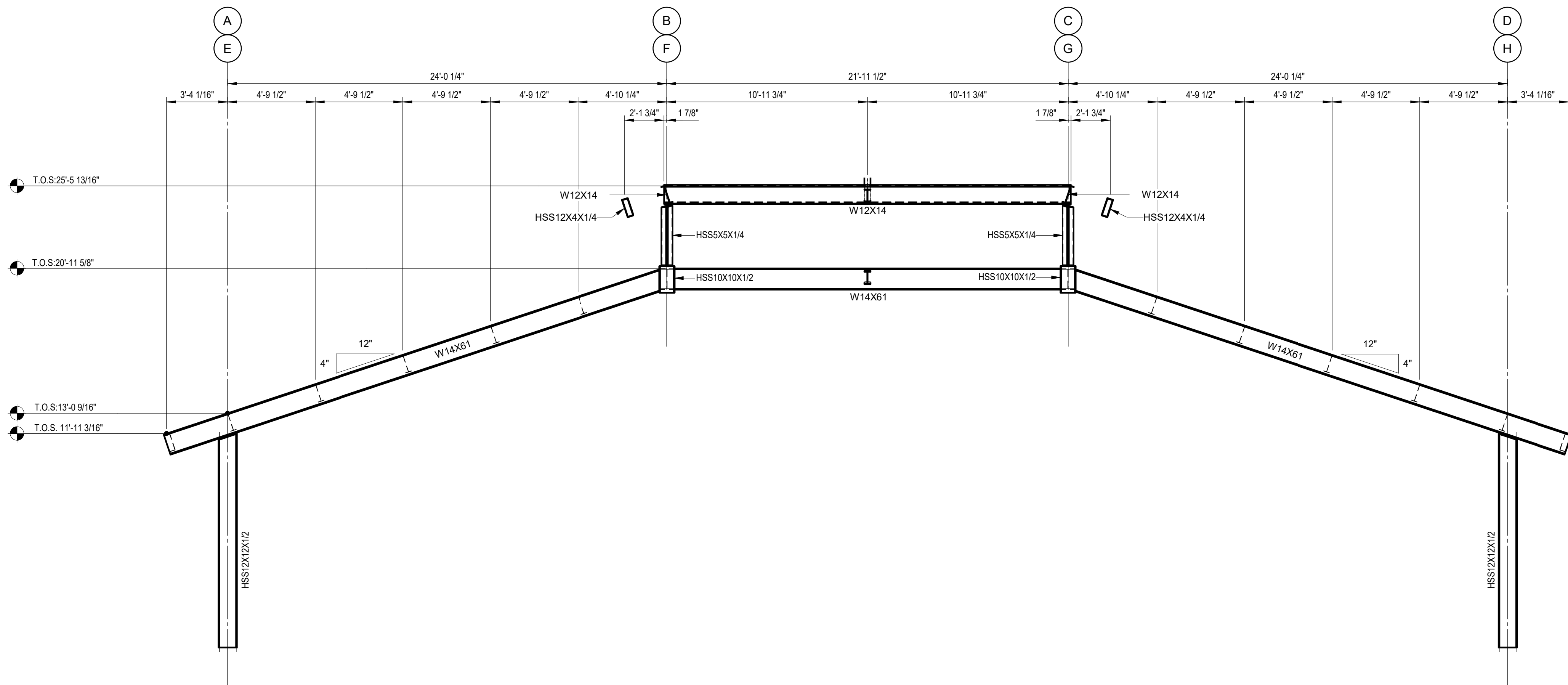
F(b) = 1100 psi, F(t) = 675 psi, F(c)(parallel to grain) = 1450 psi
F(c)(perpendicular to grain) = 565 psi, F(v) = 175 psi,
E = 1,400,000 psi

REVISIONS:

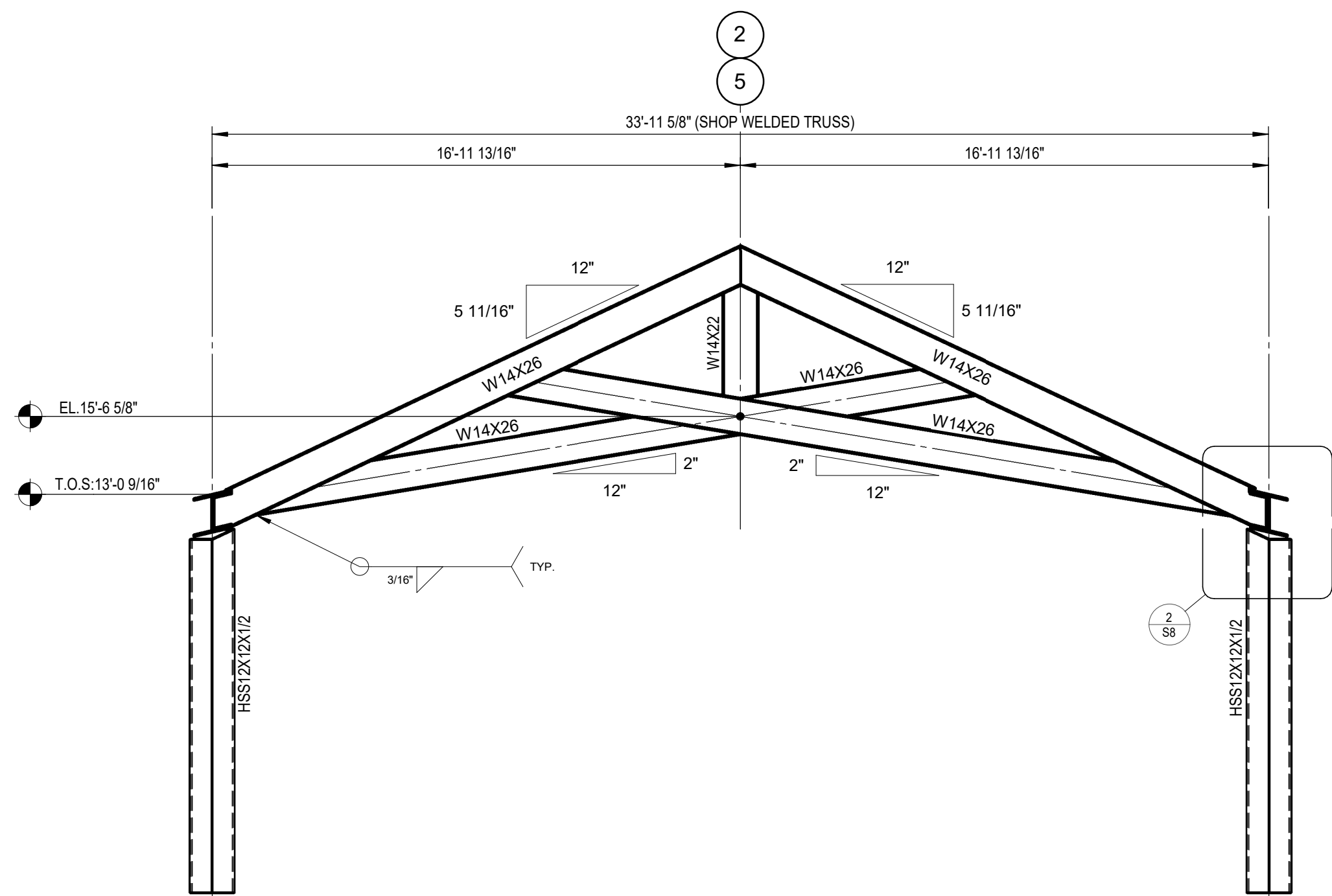


LARGE PAVILION 3D VIEW AND NOTES
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|----------|
| DRAWN: | RSK |
| CHECKED: | SDM |
| DATE: | 08/04/22 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

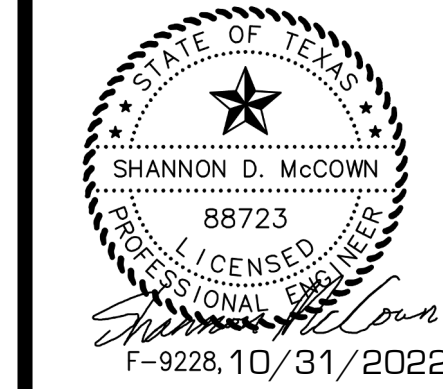


1
S6
ELEVATION @ GRID B, C, F, & G
1/4" = 1'-0"



2
S6
ELEVATION @ GRID 1, 3, 4, & 6
1/4" = 1'-0"

REVISIONS:



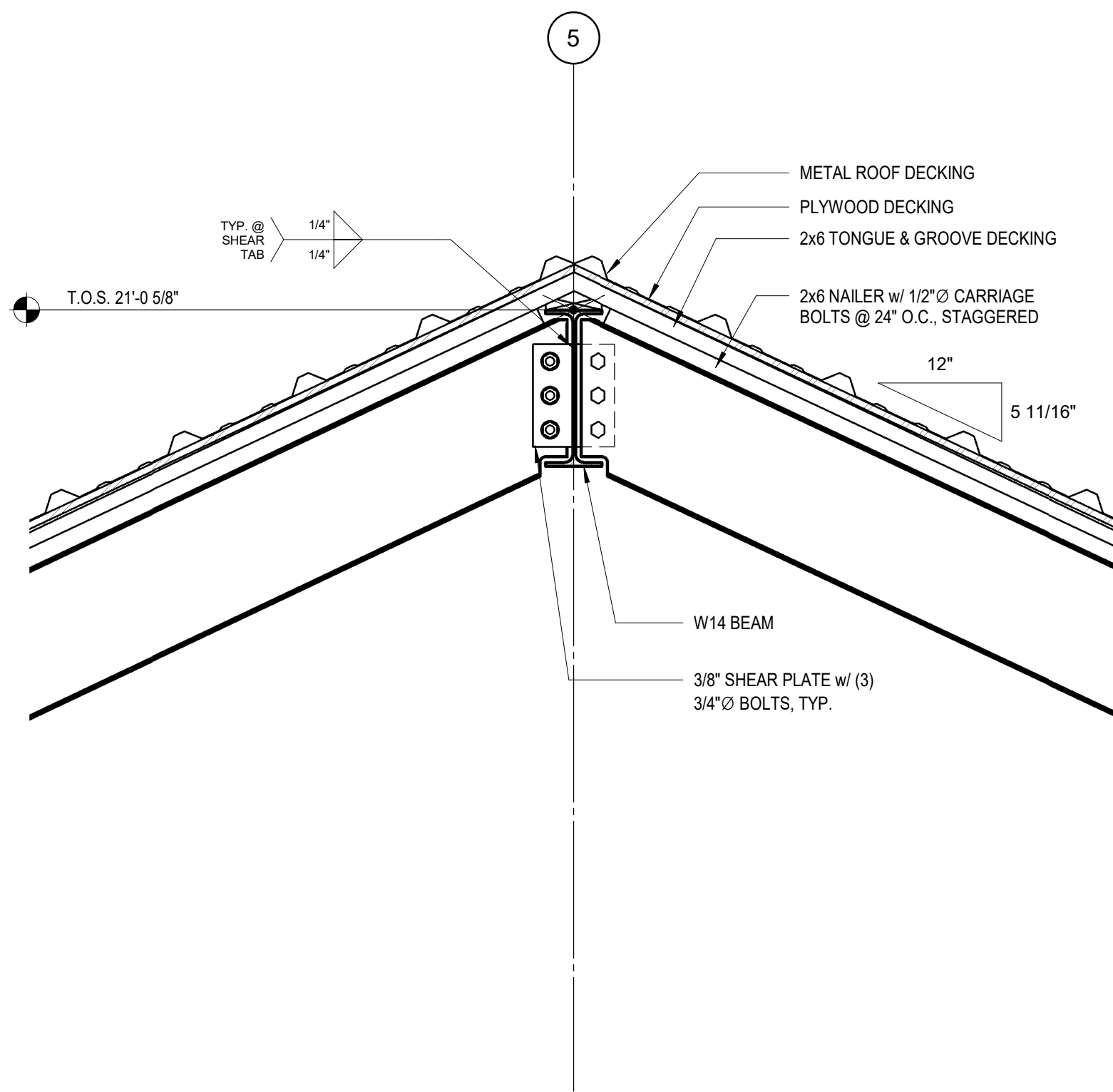
LARGE PAVILION ELEVATIONS

PENDLETON PROPERTY PHASE 2

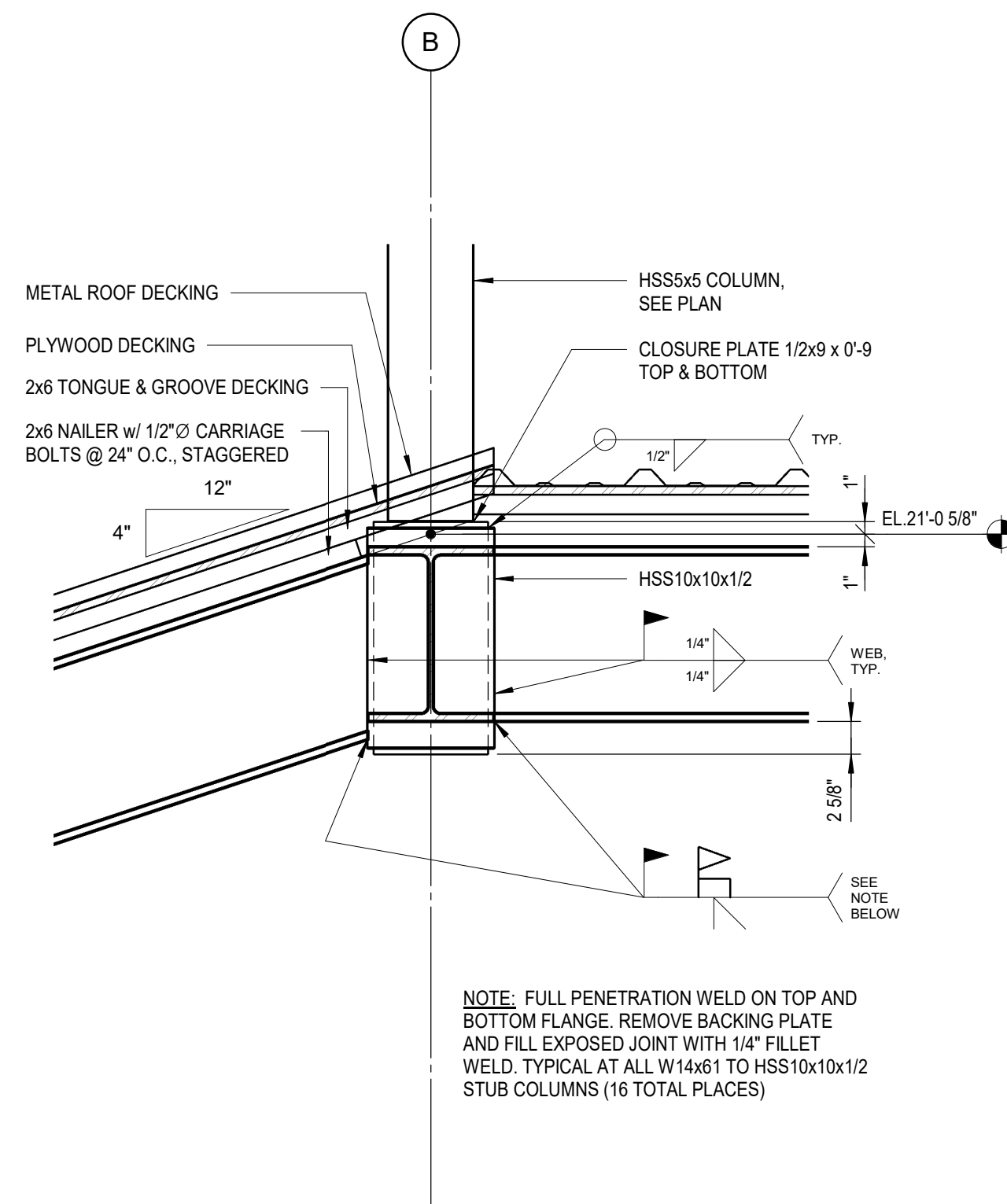
SABINE RIVER AUTHORITY OF TEXAS

| | |
|----------|----------|
| DRAWN: | RSK |
| CHECKED: | SDM |
| DATE: | 08/04/22 |
| SCALE: | AS SHOWN |
| JOB NO.: | 21-021 |

S6

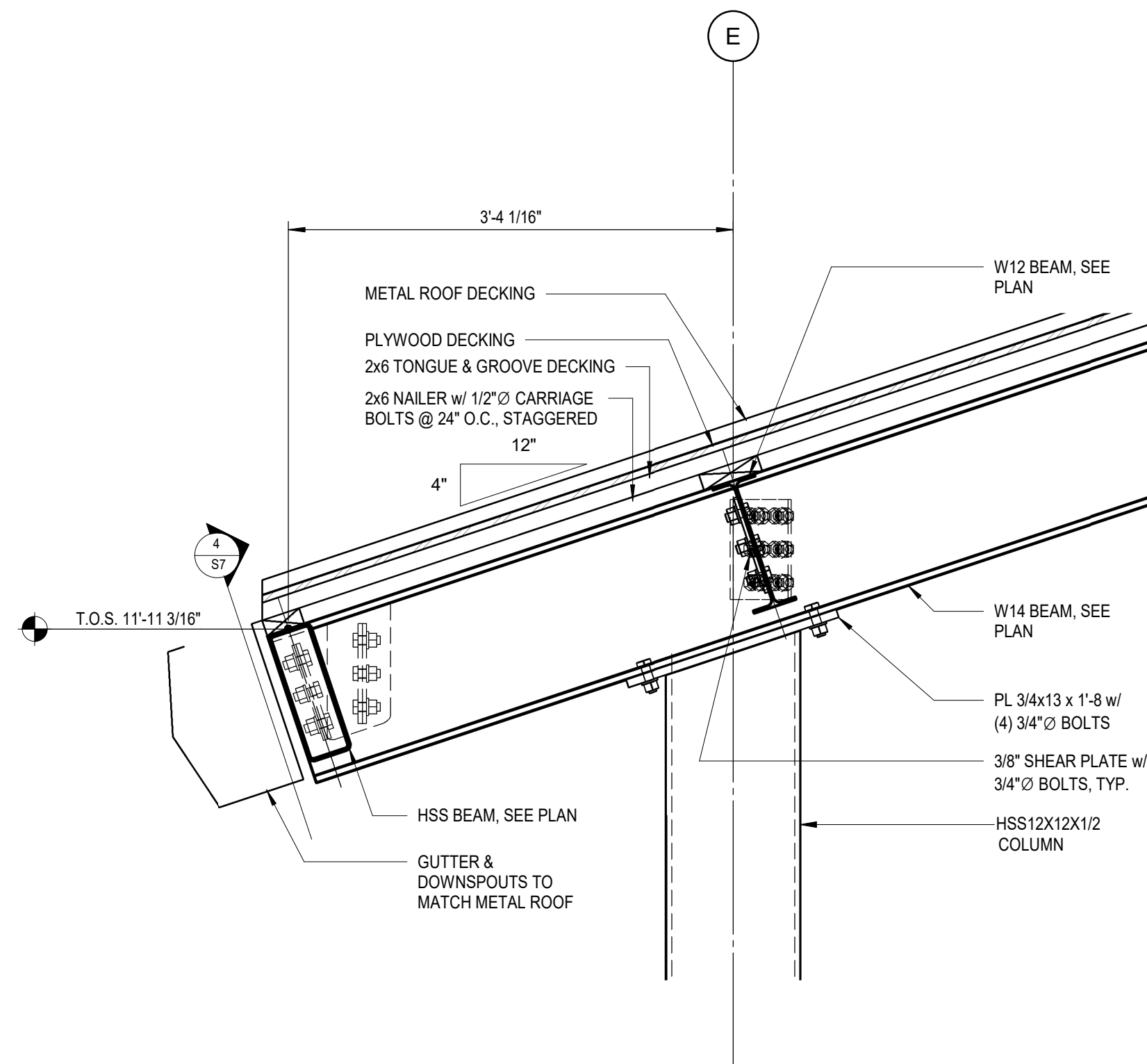


1 SECTION
S7 1" = 1'-0"

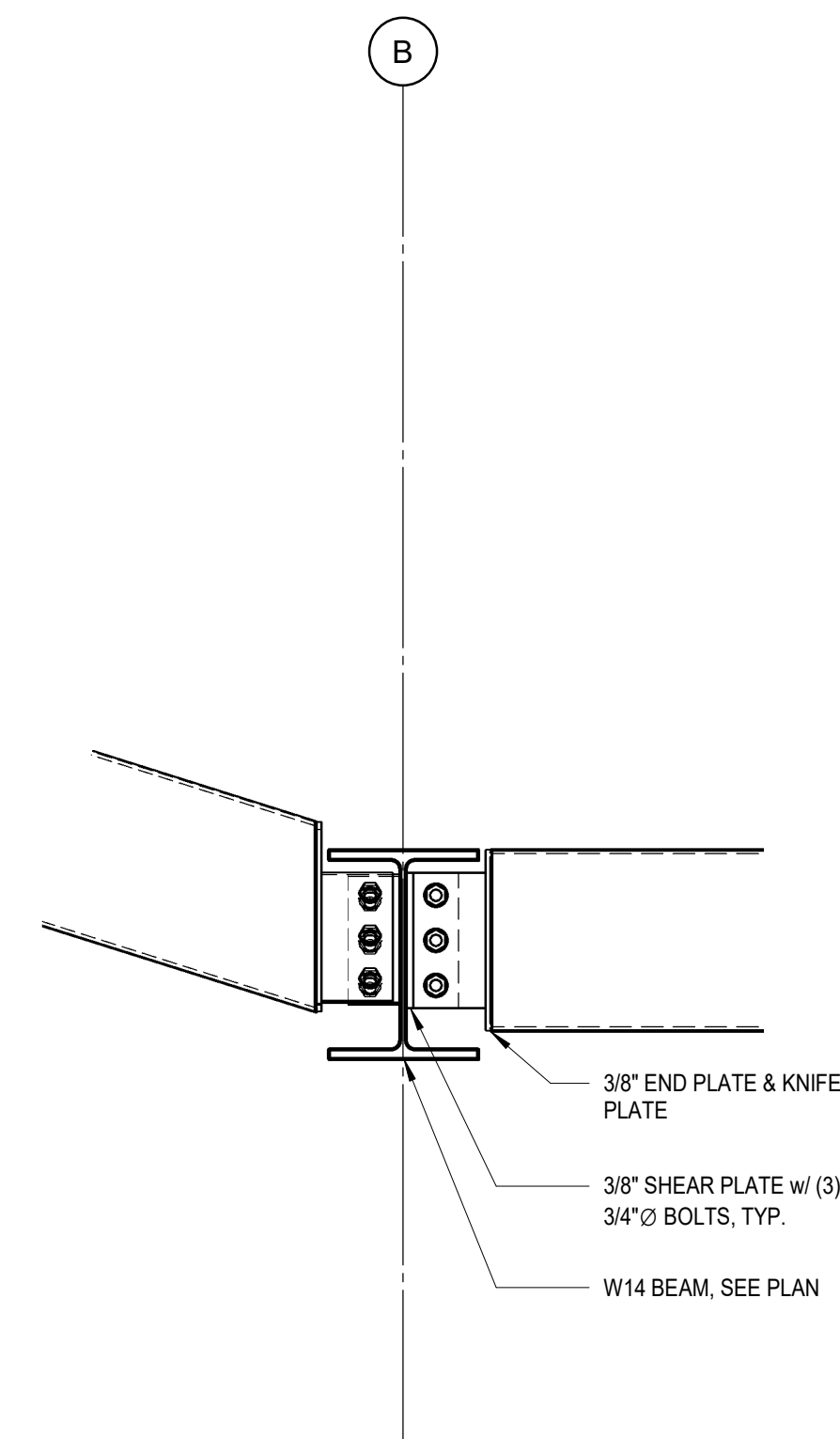


2 SECTION
S7 1" = 1'-0"

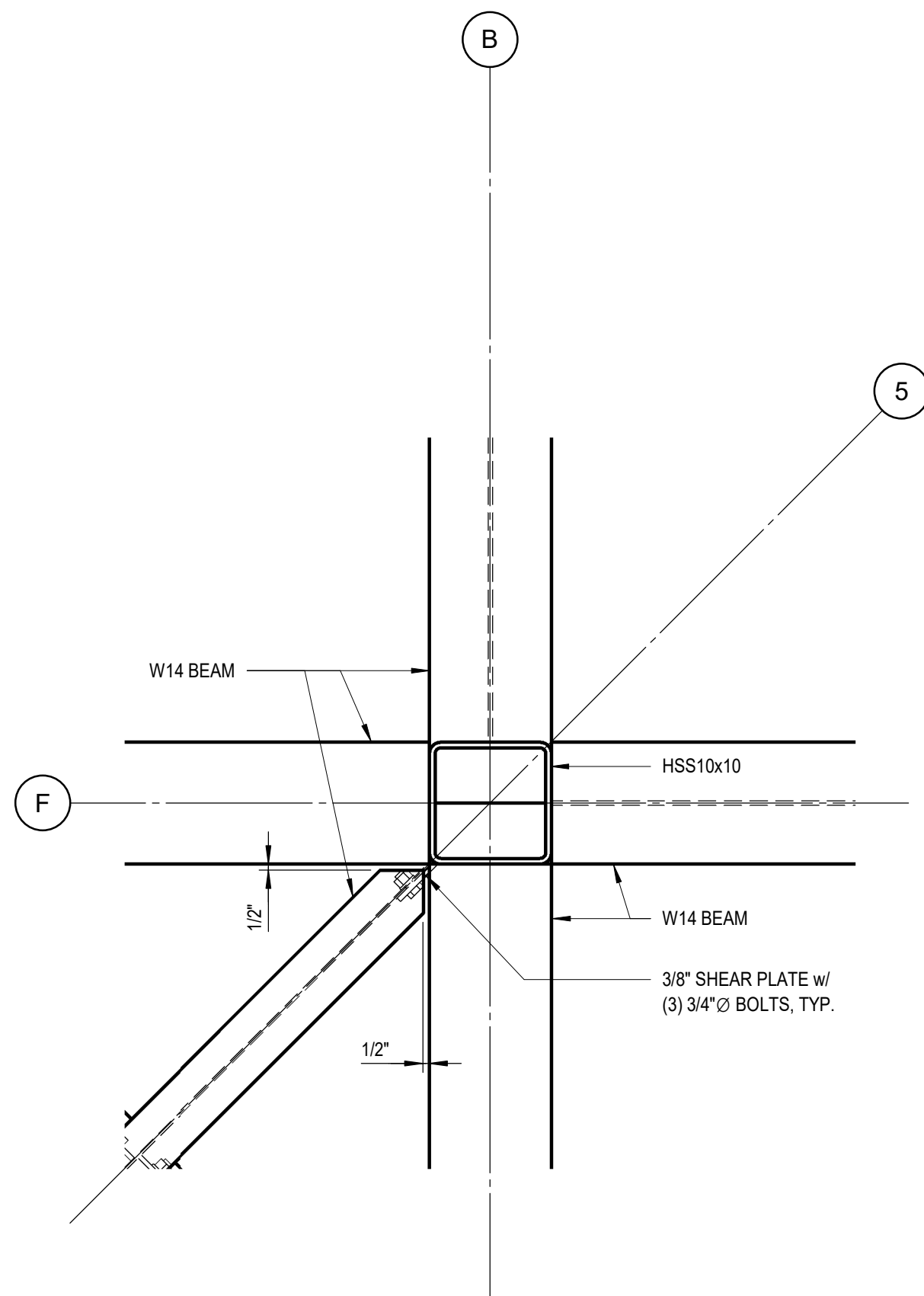
NOTE: FULL PENETRATION WELD ON TOP AND BOTTOM FLANGE. REMOVE BACKING PLATE AND FILL EXPOSED JOINT WITH 1/4" FILLET WELD. TYPICAL AT ALL W14x61 TO HSS10x10x1/2 STUB COLUMNS (16 TOTAL PLACES)



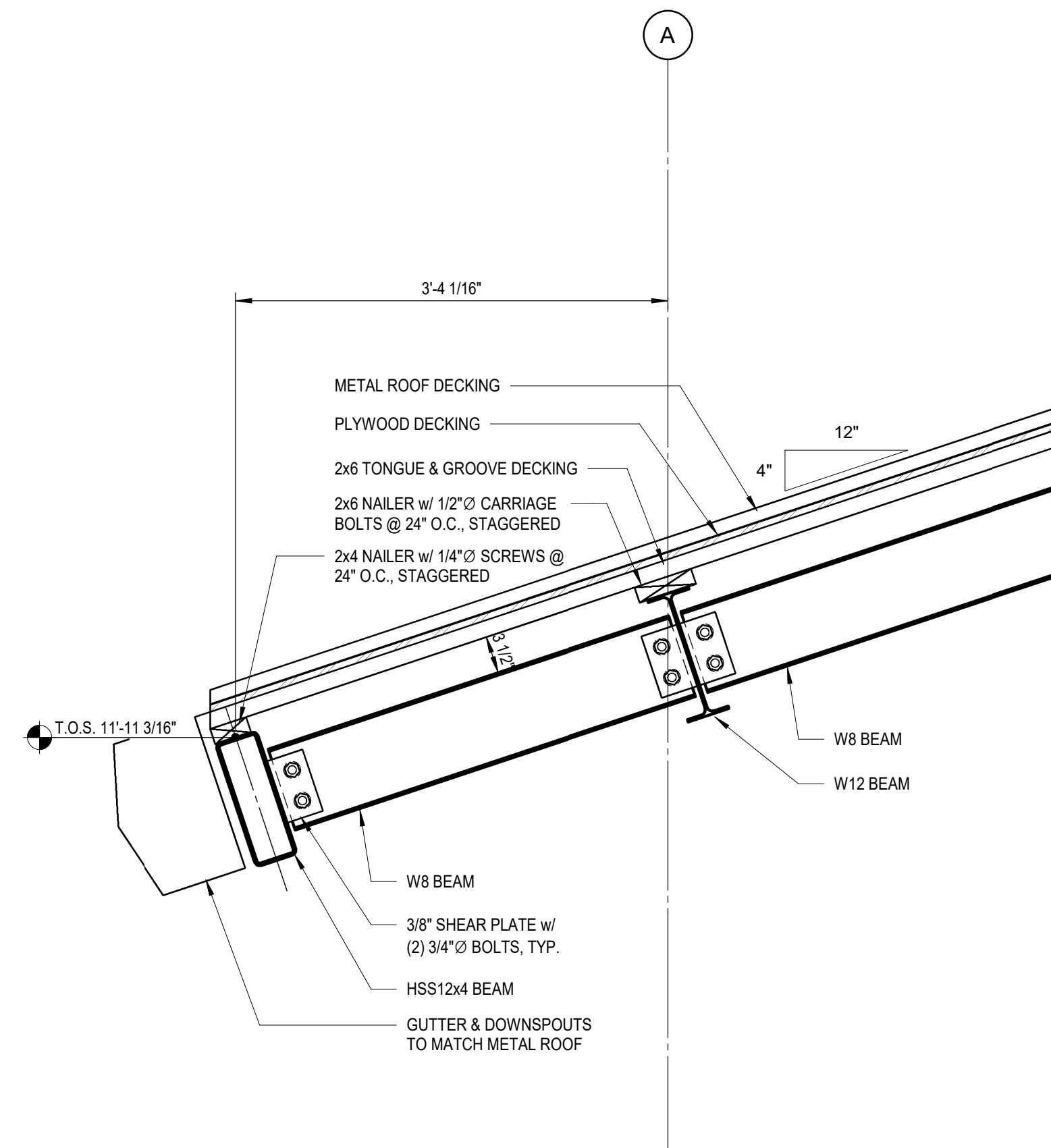
3 SECTION
S7 1" = 1'-0"



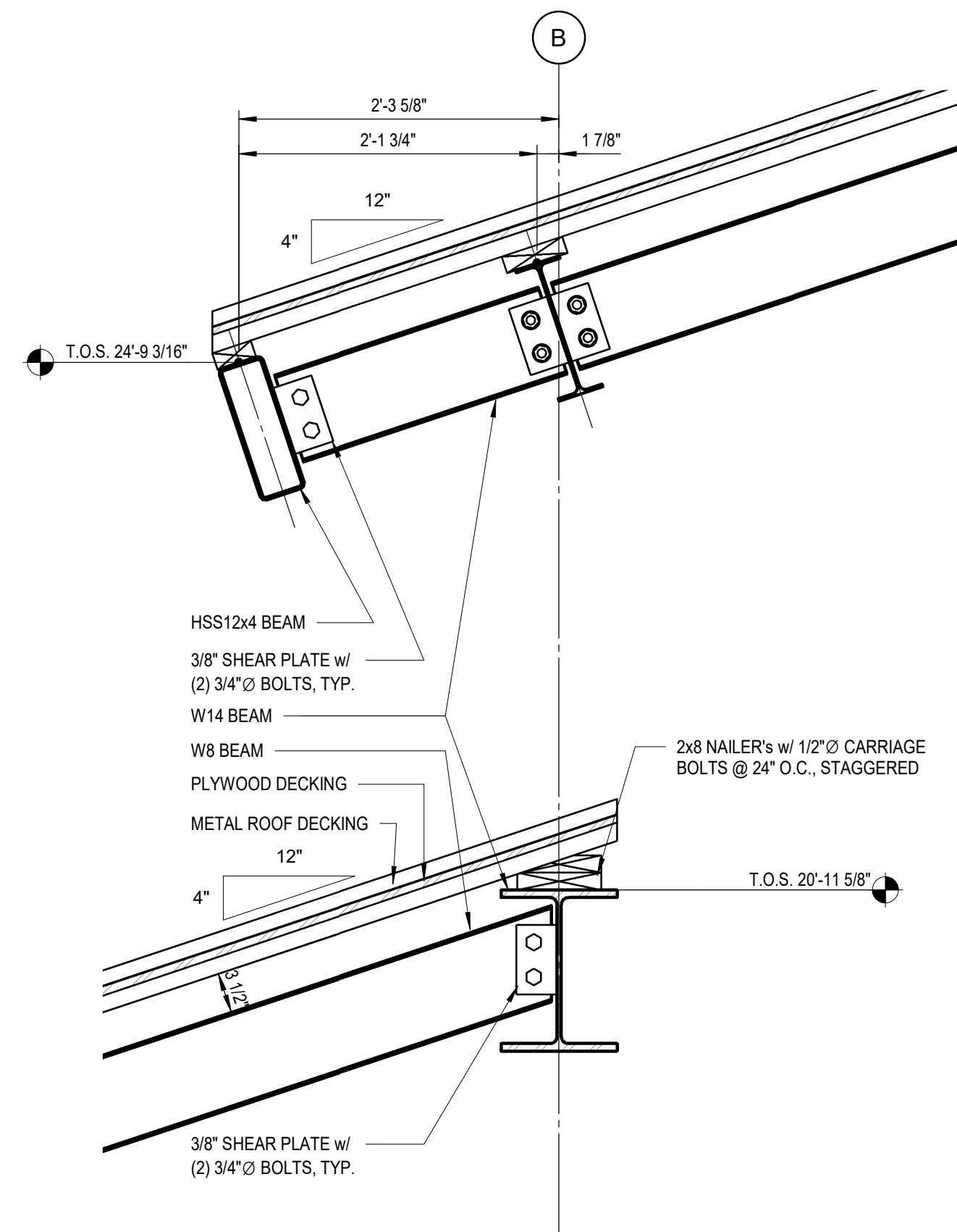
4 SECTION
S7 1" = 1'-0"



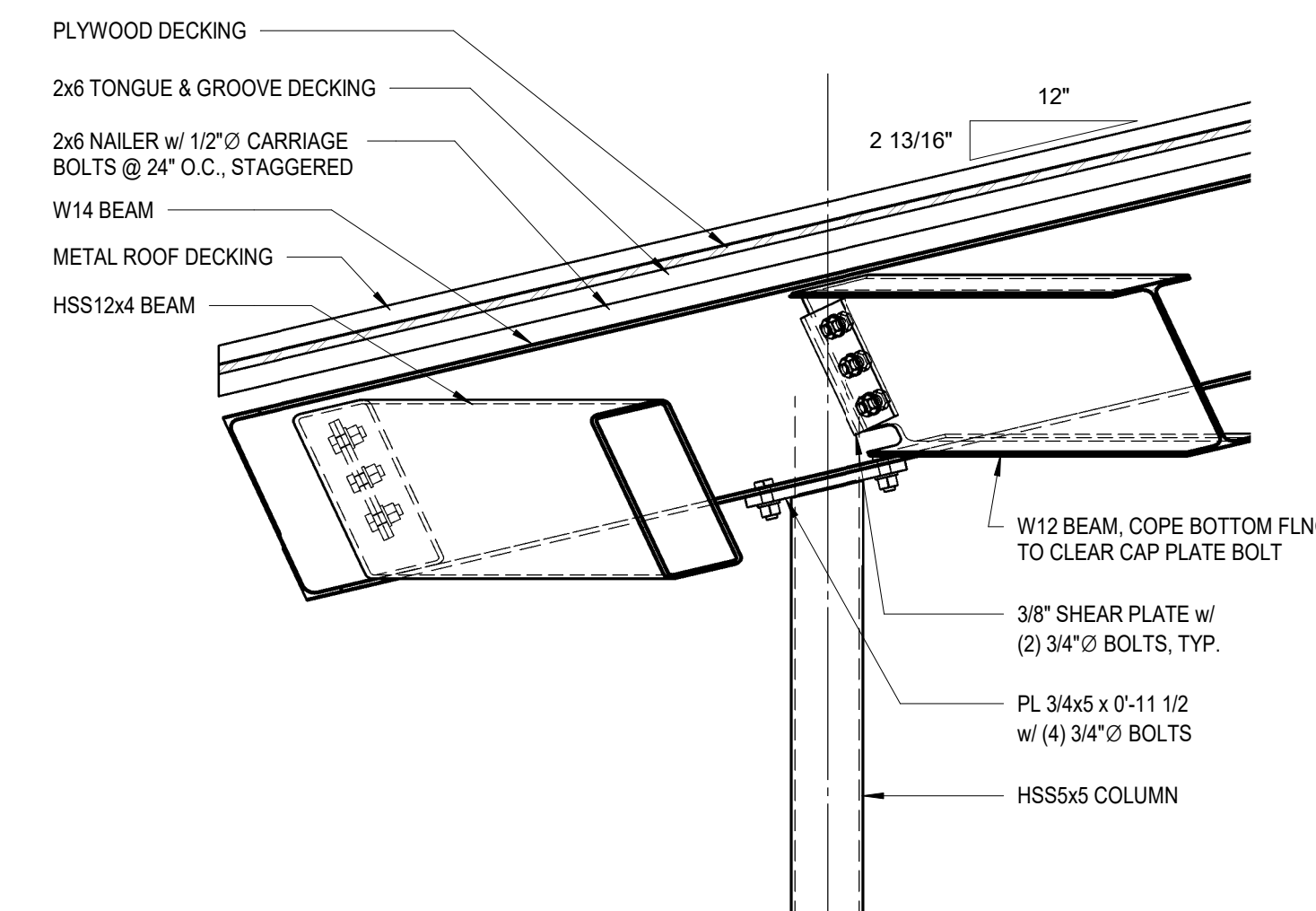
5 DETAIL
S7 1" = 1'-0"



6 SECTION
S7 1" = 1'-0"

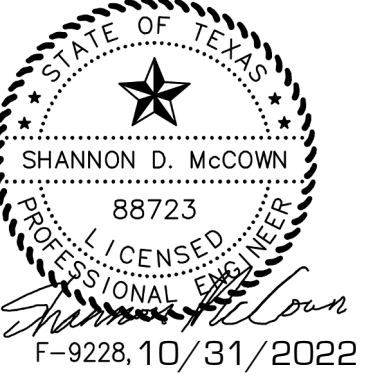


7 SECTION
S7 1" = 1'-0"



8 SECTION
S7 1" = 1'-0"

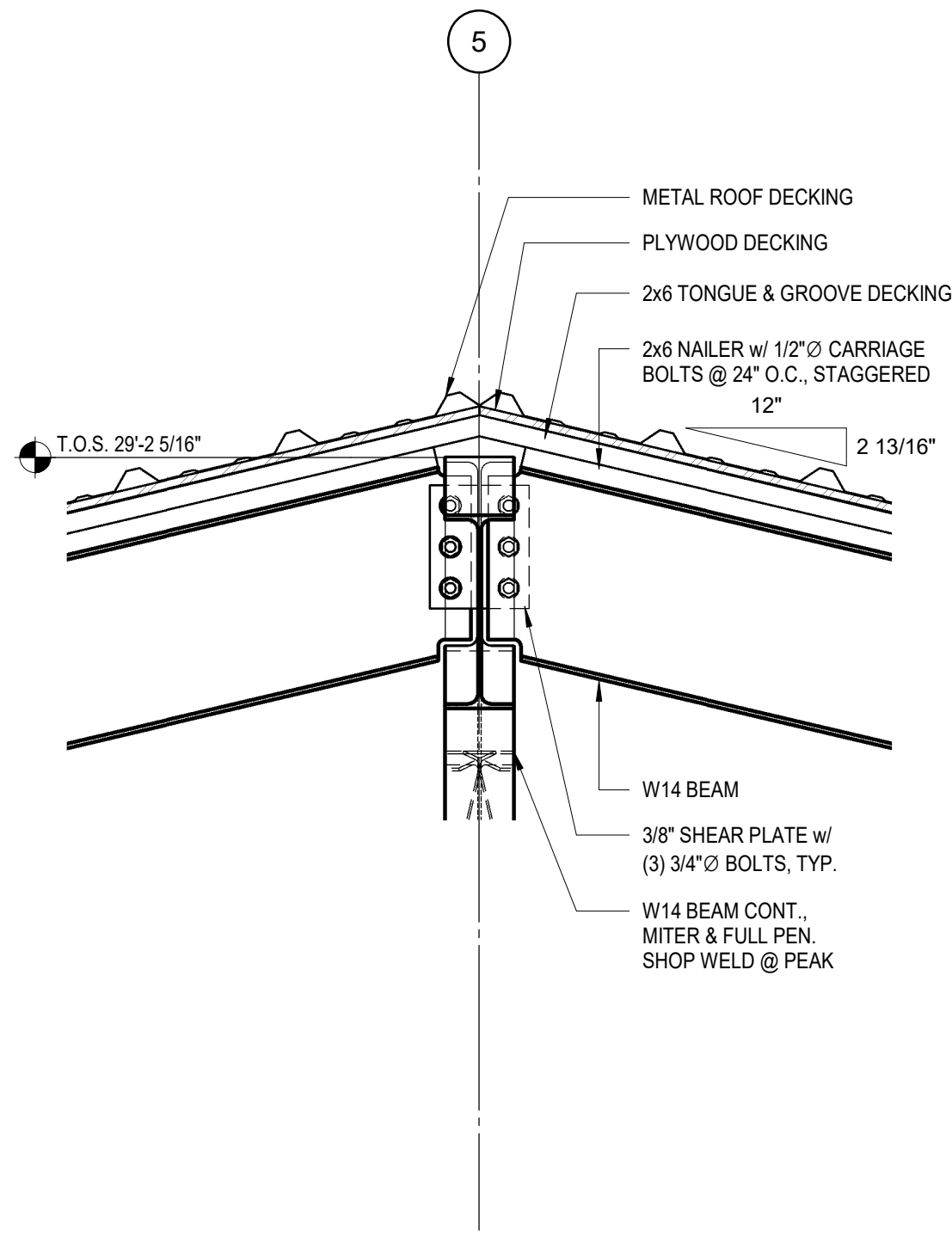
REVISIONS:



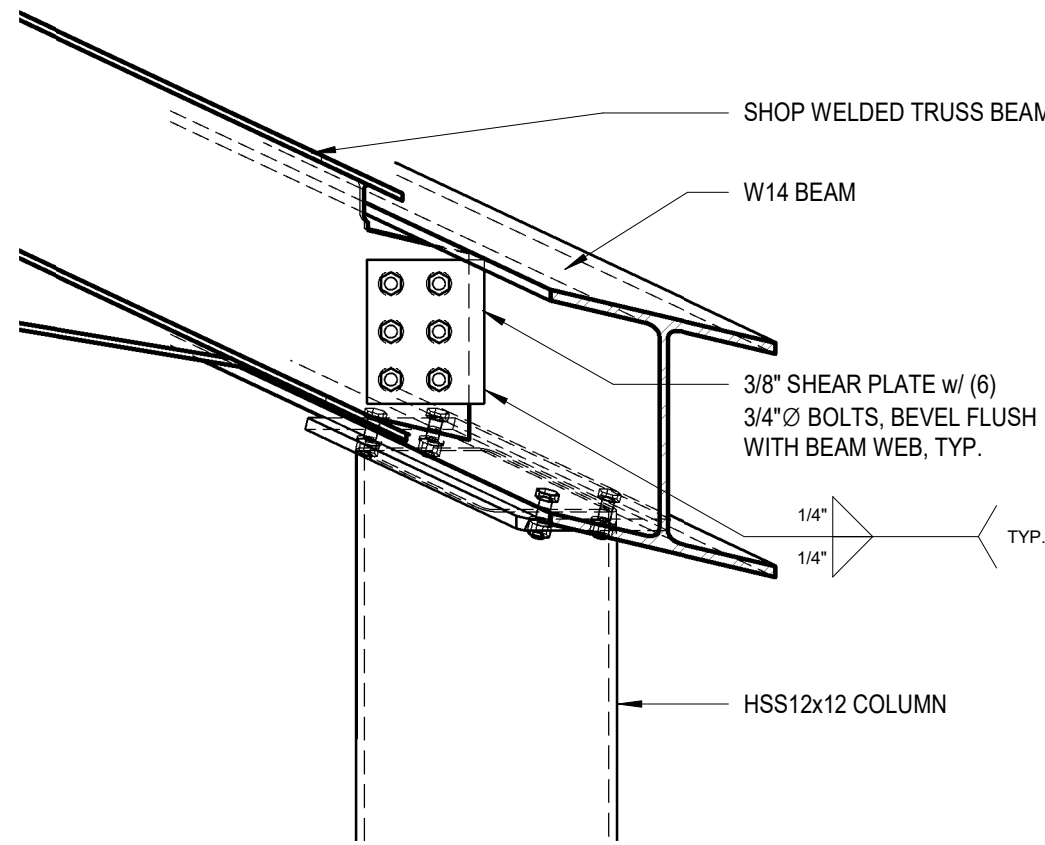
LARGE PAVILION FRAMING
SECTIONS & DETAILS
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: RSK
CHECKED: SDM
DATE: 08/04/22
SCALE: AS SHOWN
JOB NO.: 21-021

S7

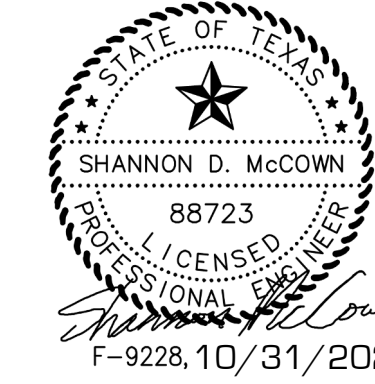


1 SECTION
S8 1" = 1'-0"



2 DETAIL
S8 1" = 1'-0"

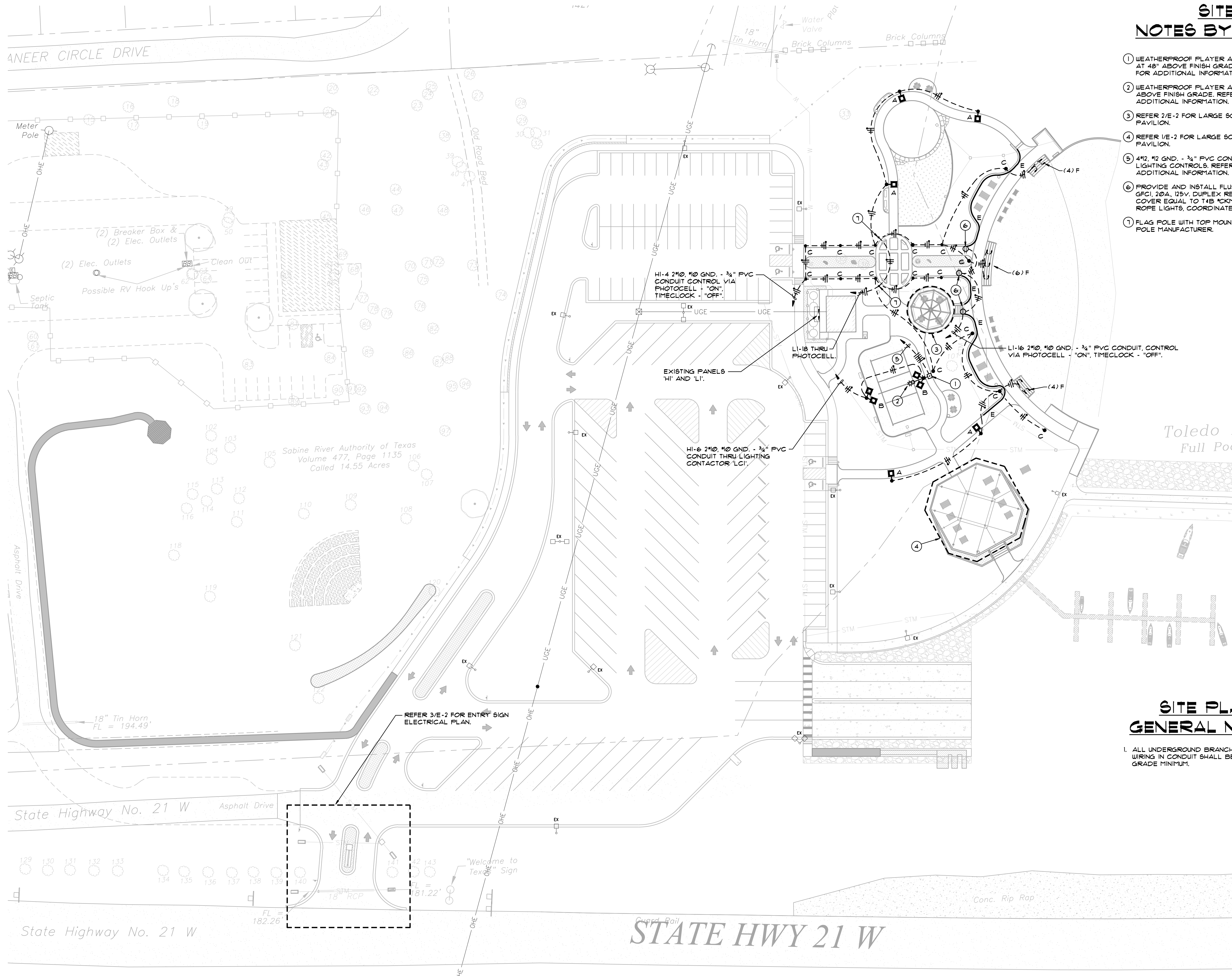
REVISIONS:



LARGE PAVILION FRAMING
SECTIONS & DETAILS
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY OF TEXAS

DRAWN: RSK
CHECKED: SDM
DATE: 08/04/22
SCALE: AS SHOWN
JOB NO.: 21-021

S8

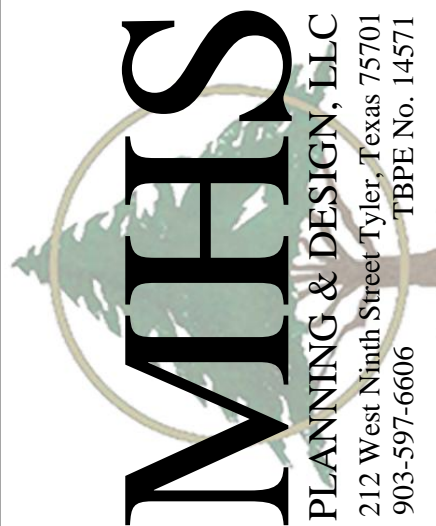


**SITE PLAN
NOTES BY SYMBOL 'O'**

- 1 WEATHERPROOF PLAYER ACTIVATION PUSHBUTTON ON POLE AT 48" ABOVE FINISH GRADE. REFER RISER DIAGRAM 1/E-3 FOR ADDITIONAL INFORMATION.
- 2 WEATHERPROOF PLAYER ALERT STROBE ON POLE AT 12'-0" ABOVE FINISH GRADE. REFER RISER DIAGRAM 1/E-3 FOR ADDITIONAL INFORMATION.
- 3 REFER 2/E-2 FOR LARGE SCALE ELECTRICAL PLAN OF SMALL PAVILION.
- 4 REFER 1/E-2 FOR LARGE SCALE ELECTRICAL PLAN OF LARGE PAVILION.
- 5 4" 1/2" 1/2" GND. - 1/2" PVC CONDUIT FOR PLAYER ACTIVATION LIGHTING CONTROLS. REFER RISER DIAGRAM 1/E-3 FOR ADDITIONAL INFORMATION.
- 6 PROVIDE AND INSTALL FLUSH IN RETAINING WALL W/ LISTED GFCI, 20A, 125V, DUPLEX RECEPTACLE WITH METAL 'IN USE' COVER EQUAL TO 14B 1000V SERIES TO POWER TYPE 'E' LED ROPE LIGHTS. COORDINATE MOUNTING HEIGHT.
- 7 FLAG POLE WITH TOP MOUNTED BEACON FURNISHED BY FLAG POLE MANUFACTURER.

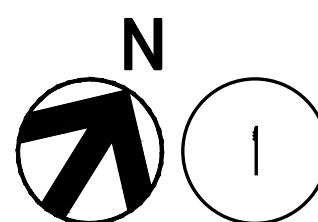
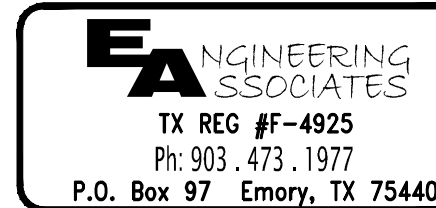
**SITE PLAN
GENERAL NOTES**

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

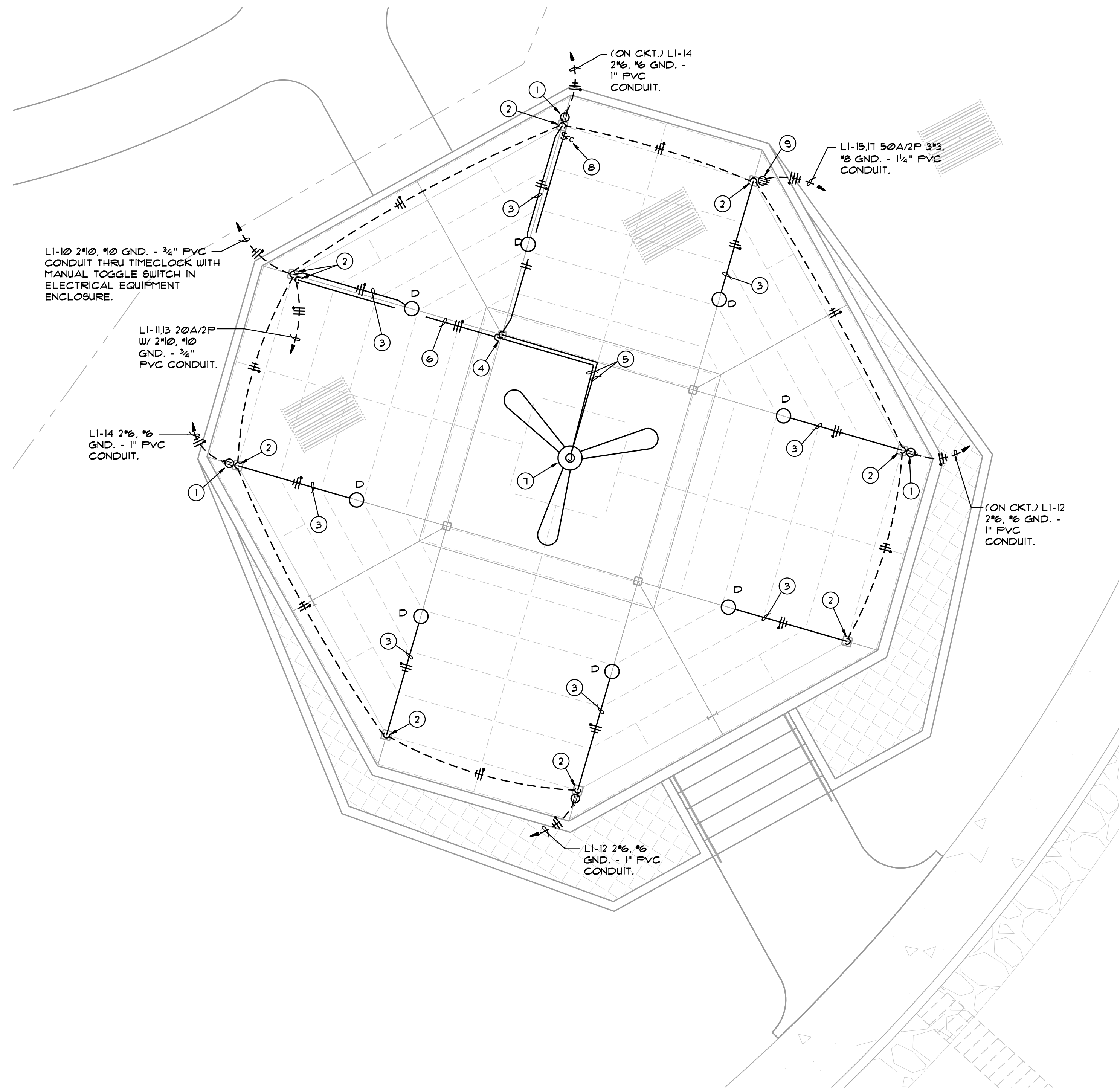


SITE PLAN- ELECTRICAL
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY

DRAWN: C.A.D.
CHECKED: J.W.
DATE: Oct. 2022
SCALE: As Shown
JOB NO.: 21-021



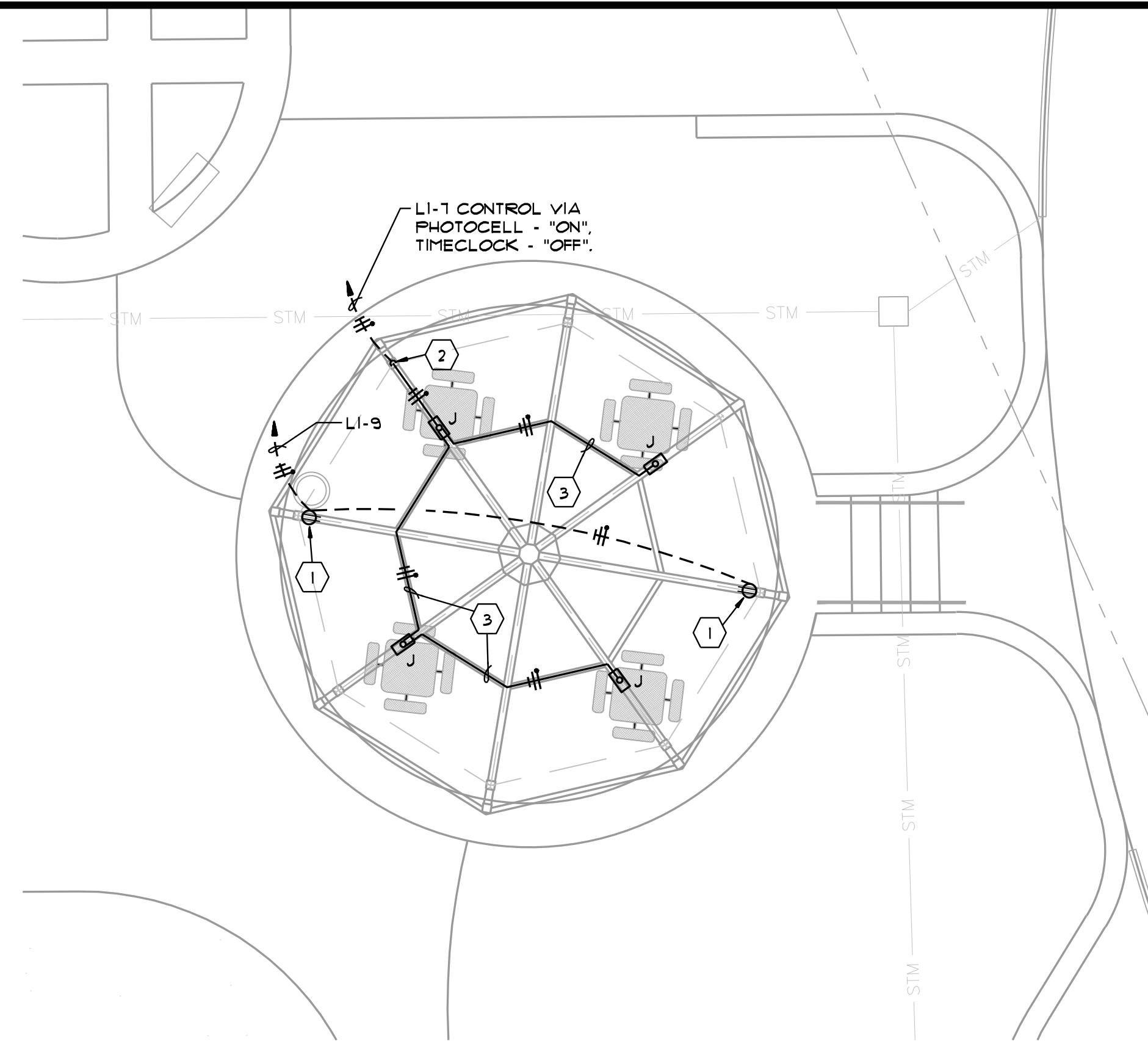
SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"



1 LARGE PAVILION PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

**LARGE PAVILION PLAN
NOTES BY SYMBOL 'O'**

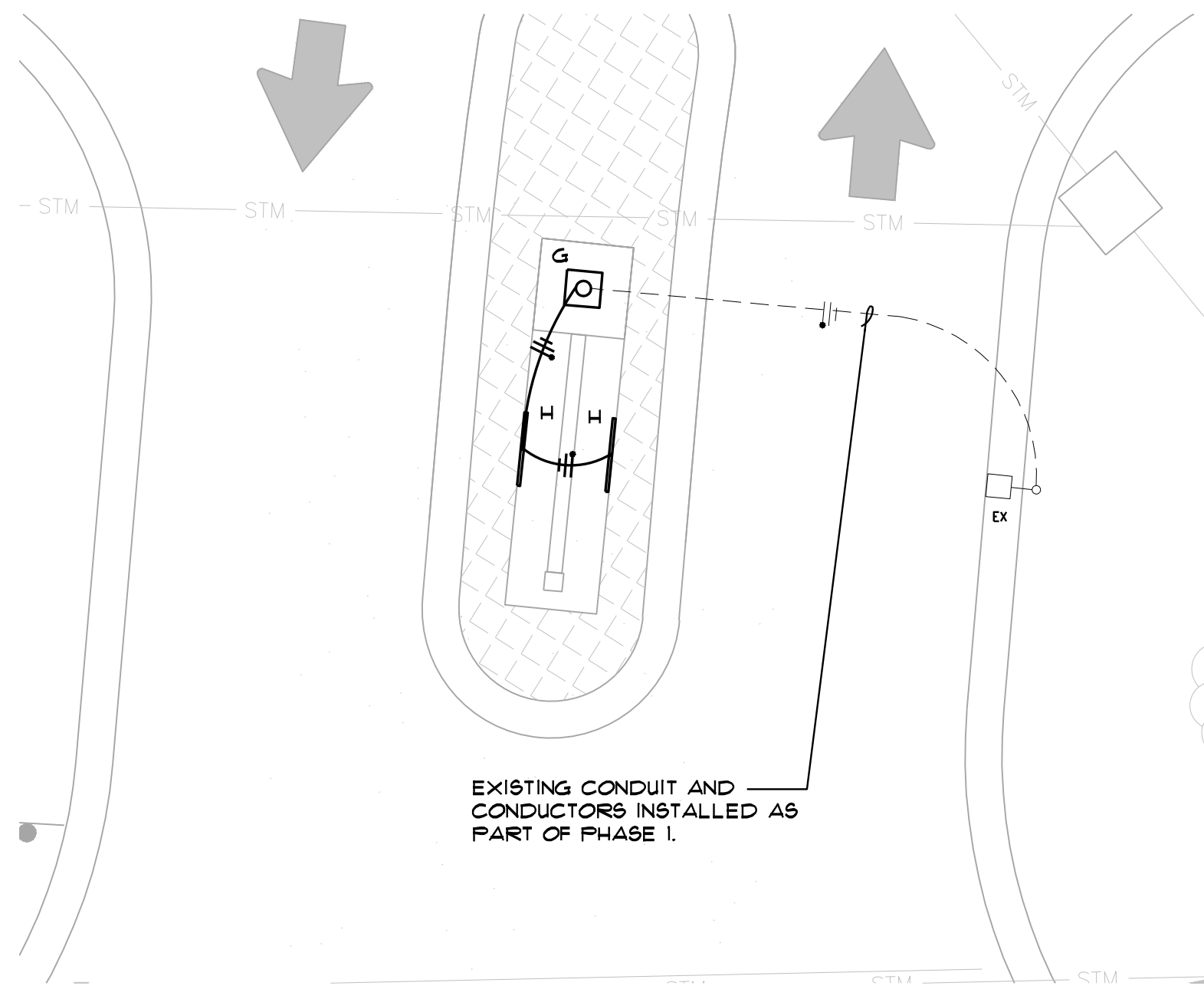
- 1 PROVIDE AND INSTALL W.R. LISTED GFCI, 20A, 125V, DUPLEX RECEPTACLE WITH METAL "IN USE" COVER EQUAL TO T4B "CKMUV" SERIES.
- 2 ROUTE DOWN THRU COLUMN TO UNDERGROUND.
- 3 ROUTE 2"12, #12 GND. MC CABLE THRU STRUCTURAL MEMBERS. EXPOSED CONDUIT IS NOT ALLOWED. REFER 4/E-4 FOR ROUTING DETAIL.
- 4 ROUTE FAN CONTROL CONDUCTORS AND POWER CONDUCTORS THRU UPPER COLUMN TO FAN MOTOR JUNCTION BOX SUSPENDED IN CUPOLA.
- 5 ROUTE MC CABLE TIGHT TO CUPOLA ROOF, PAINT TO MATCH UNDERSIDE OF CUPOLA.
- 6 2"10, #10 GND. MC CABLE THRU STRUCTURAL MEMBER. EXPOSED CONDUIT IS NOT ALLOWED. REFER 4/E-4 FOR ROUTING DETAIL.
- 7 PROVIDE AND INSTALL MACROAIR AIRVOLUTION HIGH VOLUME FAN #1300-00351A-60-30020-00-33-21010-00-60-50147-00-30-50306-00-51-F0300-02.
- 8 DIGITAL FAN CONTROL SUPPLIED BY FAN MANUFACTURER.
- 9 PROVIDE AND INSTALL 50A 120/240V, 3 POLE, 4 WIRE GROUNDING RECEPTACLE IN NEMA 3R ENCLOSURE.



2 SMALL PAVILION PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

**SMALL PAVILION PLAN
NOTES BY SYMBOL 'O'**

- 1 PROVIDE AND INSTALL W.R. LISTED GFCI, 20A, 125V, DUPLEX RECEPTACLE WITH METAL "IN USE" COVER EQUAL TO T4B "CKMUV" SERIES.
- 3 ROUTE DOWN THRU COLUMN TO UNDERGROUND.
- 3 ROUTE 2"12, #12 GND. MC CABLE THRU STRUCTURAL MEMBERS. EXPOSED CONDUIT IS NOT ALLOWED. REFER 4/E-4 FOR ROUTING DETAIL.

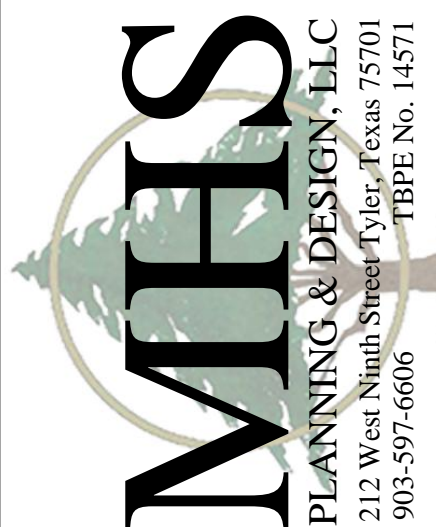


3 ENTRY SIGN PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



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

REVISIONS:

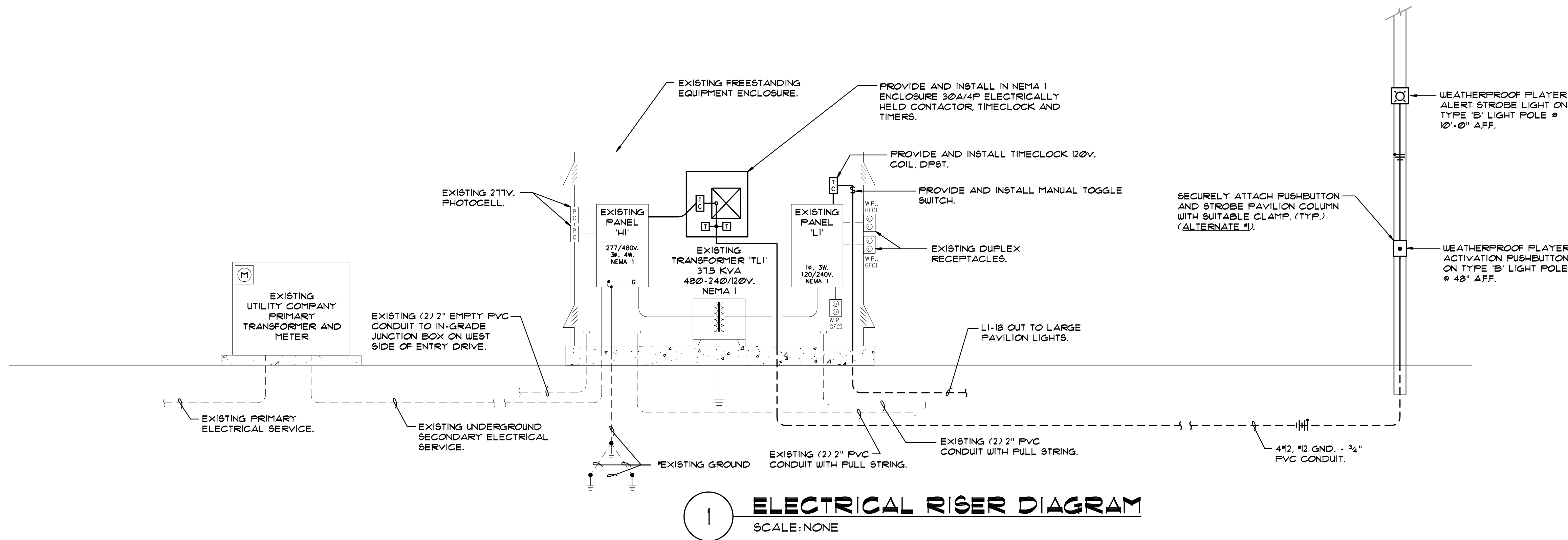


ELECTRICAL DETAILS & SCHEDULES

PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY

DRAWN: C.A.D.
CHECKED: J.W.
DATE: Oct. 2022
SCALE: As Shown
JOB NO.: 21-021

E-3



1 ELECTRICAL RISER DIAGRAM
SCALE: NONE

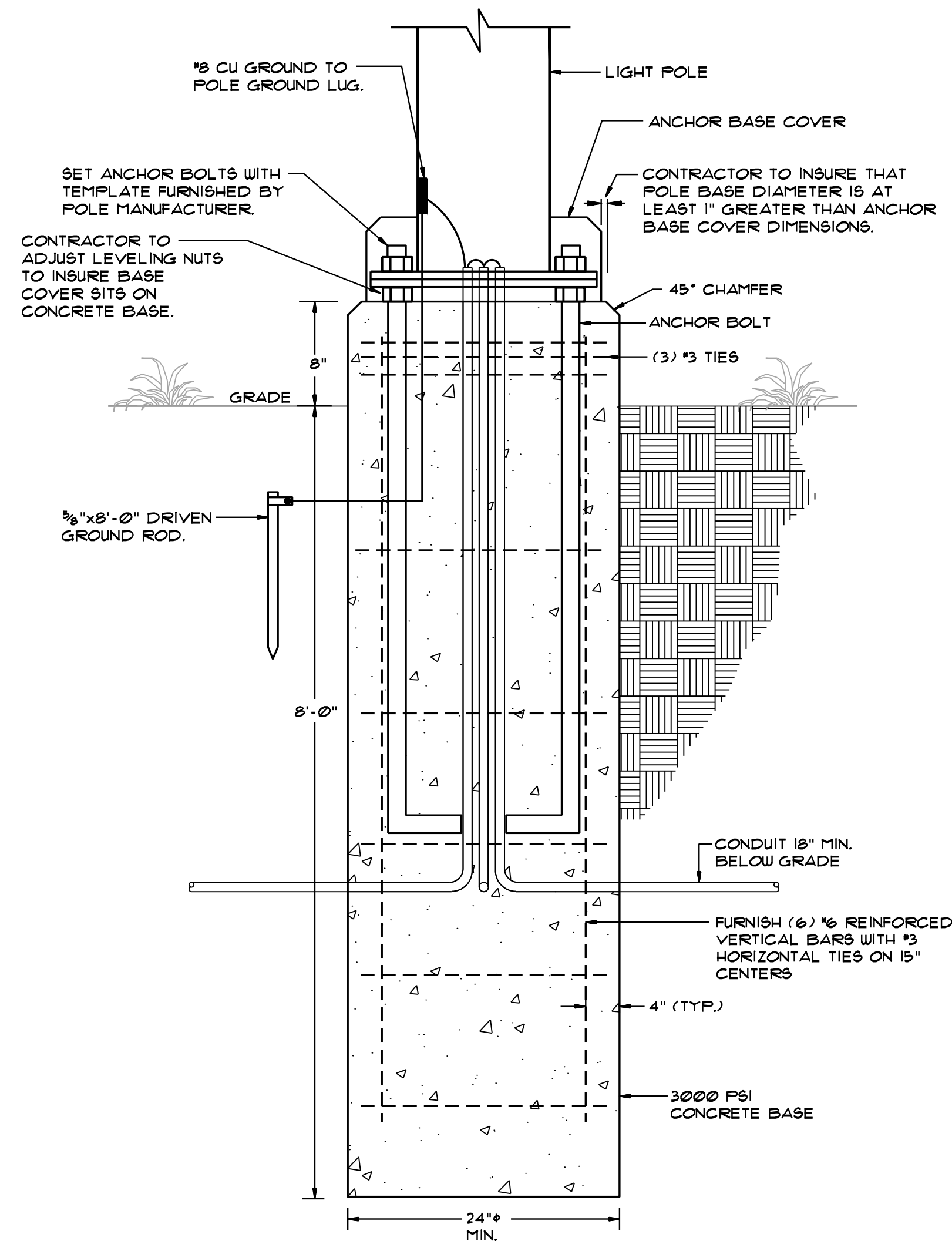
| EXISTING PANEL 'H' | | | | | | | | | |
|---|--------------------|---------|----------|-------------|---------|---|--------------------|-------|--|
| NOTES | DESCRIPTION | P - AMP | LOAD | PH / CKT # | LOAD | P - AMP | DESCRIPTION | NOTES | |
| 1 | Parking Lot Lights | 1 - 20 | 1836 | 1 A 2 | 2387 | 1 - 20 | Parking Lot Lights | 1 | |
| | Transformer 'TL' | 2 | 18150 | 3 B 4 | 1310 | 1 - 20 | Walkway Lighting | 2 | |
| | | | 18150 | 5 C 6 | 1080 | 1 - 20 | Volleyball Lights | 2 | |
| | Space Only | 1 - - | ..... | 7 A 8 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 9 B 10 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 11 C 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 C 18 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 19 A 20 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 21 B 22 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 23 C 24 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 25 A 26 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 27 B 28 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 29 C 30 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 31 A 32 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 33 B 34 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 35 C 36 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 37 A 38 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 39 B 40 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 41 C 42 | ..... | 1 - - | Space Only | | |
| LOAD SUMMARY | | | CONN. KW | N.E.C. DIV. | DIV. KW | | | | |
| LIGHTING | | | 6.6 | X 125 | 8.3 | POLES 42 | | | |
| POWER | | | 37.5 | X 10 | 37.5 | SIZE 225 AMP | | | |
| OTHER | | | 0.0 | X 10 | 0.0 | MAINS 225A/3P M.C.B. | | | |
| | | | | | | VOLTS 277/480V., 3Ø, 4W | | | |
| | | | | | | A.I.C. 14K | | | |
| | | | | | | MOUNTING Surface | | | |
| | | | | | | ENCLOSURE NEMA 1 | | | |
| TOTALS | | | 44.1 | | 45.8 | PANEL AMPs 55 | | | |
| PROJECT Pendleton Property Park, Toledo Bend Reservoir, Texas | | | NOTES: | | | 1. Item is existing to remain. | | | |
| PANEL LOCATION: Existing Equipment Enclosure | | | | | | 2. Provide and install new circuit breaker, match A.I.C. rating of panel. | | | |
| DATE: October 2022 | | | | | | LOADS PER PHASE: | | | |
| | | | | | | PHASE A (KW) 4.2 | | | |
| | | | | | | PHASE B (KW) 20.1 | | | |
| | | | | | | PHASE C (KW) 19.8 | | | |

| EXISTING PANEL 'L' | | | | | | | | | |
|---|---------------------------------|---------|----------|-------------|---------|---|----------------------------|-------|--|
| NOTES | DESCRIPTION | P - AMP | LOAD | PH / CKT # | LOAD | P - AMP | DESCRIPTION | NOTES | |
| 1 | Enclosure Receptacle | 1 - 20 | 180 | 1 A 2 | 1200 | 1 - 20 | Pedestal Receptacles | 1 | |
| 1 | Exterior Enclosure Recept. | 1 - 20 | 1200 | 3 C 4 | 1200 | 1 - 20 | Exterior Enclosure Recept. | 1 | |
| 1 | Pedestal Receptacle | 1 - 20 | 1200 | 5 A 6 | 1200 | 2 | Pre-Fab Restroom Panel | 2 | |
| 2 | Small Pavilion Lights | 1 - 20 | 268 | 7 C 8 | 1200 | | | | |
| 2 | Small Pavilion Receptacles | 1 - 20 | | 9 A 10 | | 648 | Large Pavilion Lights | 2 | |
| | Fan (Large Pavilion) | 2 | | 11 C 12 | 1200 | | Large Pavilion Recept. | 2 | |
| | | | | 13 A 14 | 1200 | | Large Pavilion Recept. | 2 | |
| 2 | 50A Receptacle @ Large Pavilion | 2 | | 15 C 16 | | 693 | Type 'E' Wall Lights | 2 | |
| | | | | 17 A 18 | | 40 | Flag Pole Lights | 2 | |
| | Space Only | 1 - - | ..... | 19 C 20 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 21 A 22 | ..... | 1 - - | Space Only | | |
| | Space Only | 1 - - | ..... | 23 C 24 | ..... | 1 - - | Space Only | | |
| LOAD SUMMARY | | | CONN. KW | N.E.C. DIV. | DIV. KW | | | | |
| LIGHTING | | | 1.6 | X 125 | 2.1 | POLES 24 | | | |
| POWER | | | 32.9 | X 10 | 32.9 | SIZE 200 AMP | | | |
| OTHER | | | 0.0 | X 10 | 0.0 | MAINS 200A/2P M.C.B. | | | |
| | | | | | | VOLTS 120/240V., 1Ø, 3W | | | |
| | | | | | | A.I.C. 10K | | | |
| | | | | | | MOUNTING Surface | | | |
| | | | | | | ENCLOSURE NEMA 1 | | | |
| TOTALS | | | 34.6 | | 35.0 | PANEL AMPs 146 | | | |
| PROJECT Pendleton Property Park - Phase II Toledo Bend Reservoir, Texas | | | NOTES: | | | 1. Item is existing to remain. | | | |
| PANEL LOCATION: Existing Equipment Enclosure | | | | | | 2. Provide and install new circuit breaker, match A.I.C. rating of panel. | | | |
| DATE: October 2022 | | | | | | LOADS PER PHASE: | | | |
| | | | | | | PHASE A (KW) 17.6 | | | |
| | | | | | | PHASE C (KW) 16.9 | | | |

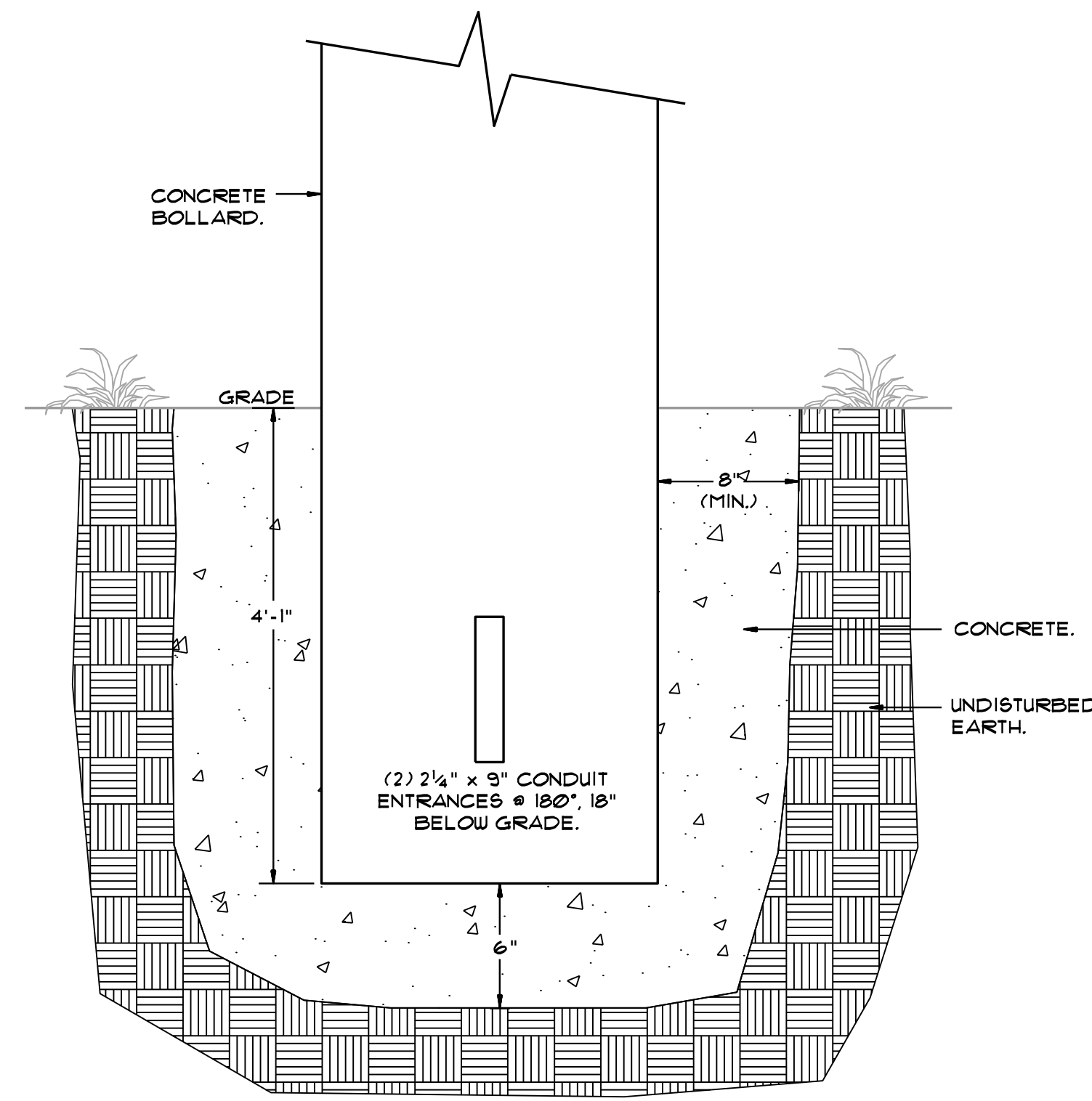
| LUMINAIRE SCHEDULE | | | | | | |
|--------------------|---|--|---------|-----------|----------------|---|
| TYPE | DESCRIPTION | MANUFACTURER/MODEL # | VOLTAGE | WATTAGE | LAMPS | REMARKS |
| A | POLE MOUNTED LED ON 16'-0" DIRECT EMBEDDED CONCRETE WOOD GRAIN POLE | SPRING CITY *ALMETN-M1-LE20-EVX-2F2-40-CR3-GFLO-LANBC-CU POLE: AMERON *UEQ05-COLOR -AMERSHIELD COATING | 120 | 101 | LEDs FURNISHED | REFER 2/E-3 FOR EMBEDDED BASE DETAIL |
| B | (2) POLE MOUNTED LED LIGHTS @ 30' ON 25'-0" STRAIGHT STEEL POLE | LITHONIA *D8X2 LED P4 40K TFTM MVOLT SPA DBLXD POLE: AMERICAN LITE POLE *NS-25-50-1-AB-BLK | 277 | 270 (EA.) | LEDs FURNISHED | REFER 1/E-3 FOR POLE BASE DETAIL |
| C | DIRECT EMBEDDED, SQUARE WOOD GRAIN, CONCRETE LED BOLLARD | AMERON *BEU0842LW (5117) L20CD38LEPC | 277 | 38 | LEDs FURNISHED | REFER 3/E-3 FOR EMBEDDED BASE DETAIL |
| D | PENDANT MOUNTED LED CANOPY LUMINAIRE | LITHONIA *VCRGX LED V8 P5 40K 80CRI T9E MVOLT FM UPL2 DD BXD BDS | 120 | 81 | LEDs FURNISHED | |
| E | FLEXIBLE LINEAR LED ROPE LIGHT UL LISTED FOR OUTDOOR USE | CB CONCEPT *S050 SERIES 1/2" 4000K | 120 | 42W/FT. | LEDs FURNISHED | WITH MOUNTING TRACK |
| F | RECESSED MOUNTED LED STEP LIGHT | B-K LIGHTING *YK-D-LED-A3580-BZP-H-LD-Ø10-MT | 120 | 10 | LEDs FURNISHED | |
| G | SURFACE MOUNTED LED LANTERN | TWO HILLS STUDIO *CPL24 | 120 | 34 | LEDs FURNISHED | |
| H | 4'-0" SURFACE MOUNTED WET LOCATION LISTED LINEAR LED | ECOBENCE *L50 E 48" 12 35 80 MVLT COVE | 120 | 12 | LEDs FURNISHED | W/ *CBL-3P-UNV-10 LEADER AND ANGLE LOCKING CUP *MNT-L-ANGLOCK |
| J | SURFACE MOUNTED LED CANOPY LUMINAIRE | LITHONIA *D8X6C LED 30C 100 40K T5R MVOLT DUHXD | 120 | 61 | LEDs FURNISHED | |



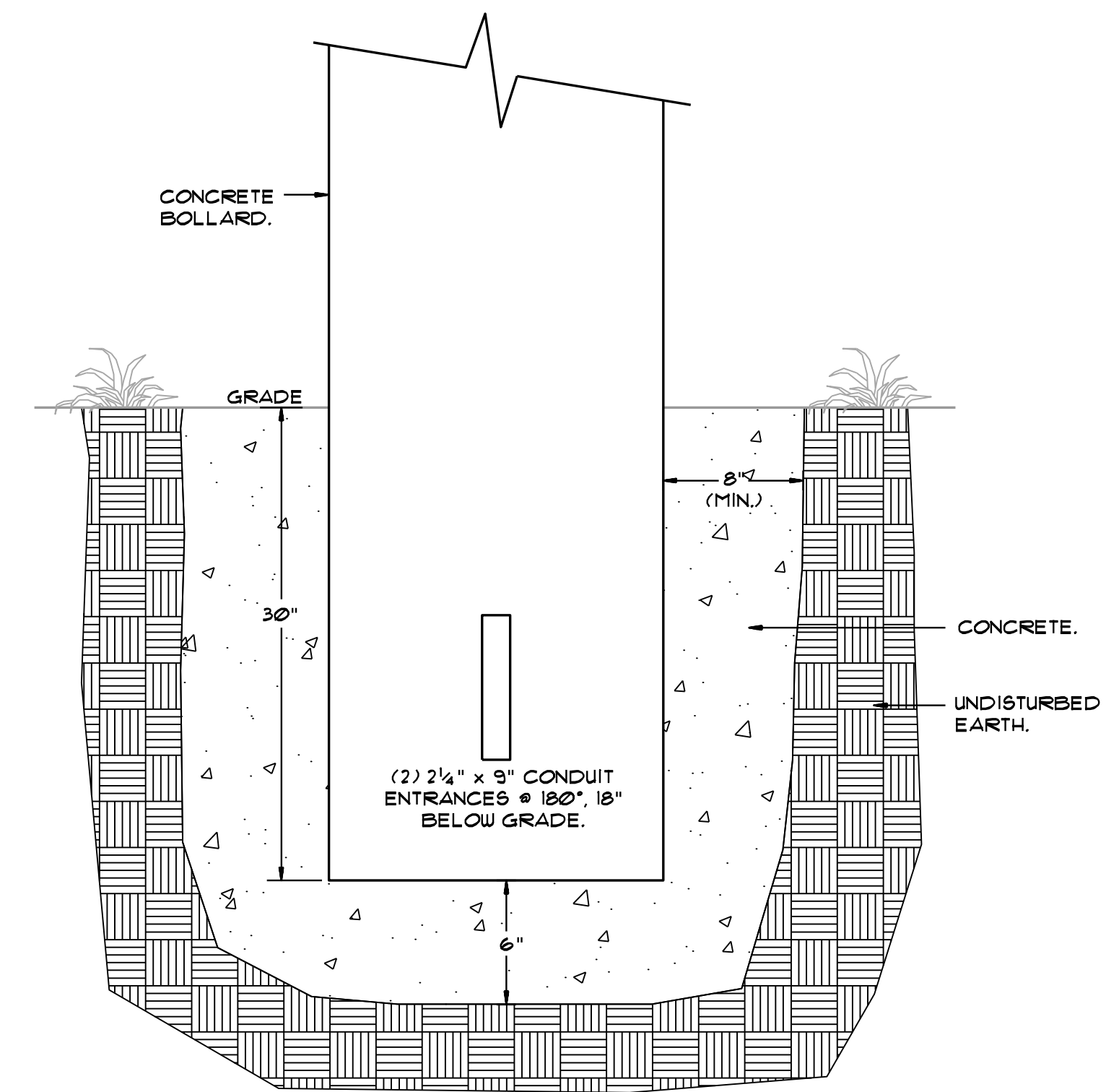
10/20/2022
ENGINEERING ASSOCIATES
TX REG #4925
Ph: 903.473.1977
P.O. Box 97 Emory, TX 75440



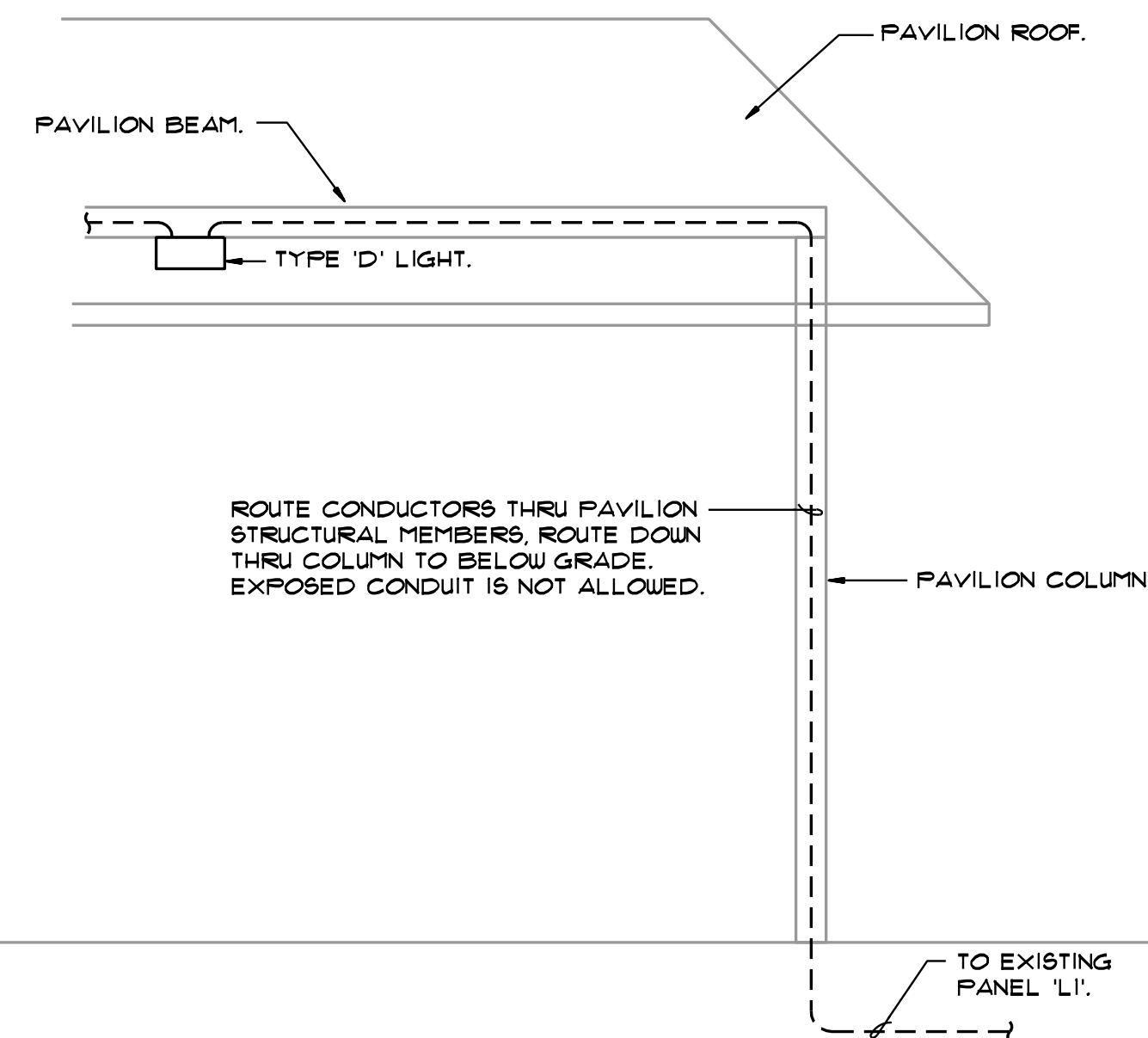
1 **FIXTURE TYPE B POLE BASE DETAIL**
SCALE: NONE



2 **FIXTURE TYPE 'A' EMBEDMENT DETAIL**
SCALE: NONE



3 **FIXTURE TYPE 'C' EMBEDMENT DETAIL**
SCALE: NONE



4 **PAVILION CONDUIT ROUTING DETAIL**
SCALE: NONE



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

MHS
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
903-597-6606
TYPE No. 14571

ELECTRICAL DETAILS
PENDLETON PROPERTY PHASE 2
SABINE RIVER AUTHORITY

DRAWN: C.A.D.
CHECKED: J.W.
DATE: Oct. 2022
SCALE: As Shown
JOB NO.: 21-021

E-4

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. POLE MOUNTED VOLLEYBALL LIGHTS WITH PLAYER ACTIVATION CONTROLS.
- b. LED BOLLARD LIGHTING.
- c. UNDERGROUND TELEPHONE SERVICE ENTRANCE.
- d. POLE MOUNTED SITE AND AREA LIGHTING FIXTURES.
- e. LIGHT POLE AND BOLLARD 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 2011 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 LIQUDTIGHT 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 THHN/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 B 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 FM, 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, T4B COLOR-KEYED TYPE OR BURNDY.
3. ENSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED.

I. OUTLET BOXES:

1. GENERAL ELECTRIC, AFFLETON, 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. 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.

N. 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 REPED.
3. DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS: PROVIDE NEATLY TYPEWRITTEN CIRCUIT DIRECTORY IN CARDHOLDER INSIDE PANELBOARD DOOR.

O. 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. CIRCUIT BREAKERS.
- b. LIGHTING FIXTURES.
- c. HIGH VOLUME CEILING FAN AND CONTROL.
- d. CONDUCTORS.
- e. CONDUIT AND FITTINGS.
- f. CABINETS.
- g. CONTACTORS, RELAYS TIMECLOCKS, AND CONTROLS.
- h. WIRING DEVICES AND COVERPLATES.
- i. GROUNDING AND BONDING SYSTEM.

P. 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.

Q. GUARANTEE:

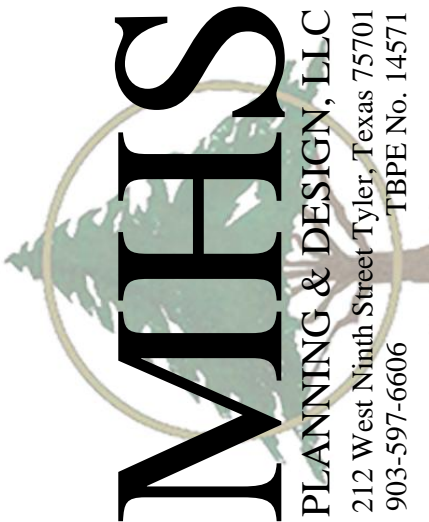
1. GUARANTEE ENTIRE INSTALLATION TO BE IN GOOD REPAIR AND PROPER WORKING ORDER FOR A PERIOD OF ONE-YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

R. CLOSE OUT DOCUMENTS

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

END OF SPECIFICATION

REVISIONS:



ELECTRICAL SPECIFICATIONS

PENDLETON PROPERTY PHASE 2

SABINE RIVER AUTHORITY



10/20/2022



DRAWN: C.A.D.

CHECKED: J.W.

DATE: Oct. 2022

SCALE: As Shown

JOB NO.: 21-021

E-5