CONSTRUCTION PLANS

FOR

CITY OF TYLER
P. T. COLE PARK

TYLER, TEXAS

SMITH COUNTY

October 2022

MAYOR

DON WARREN

CITY COUNCIL

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BRODERICK MCGEE
SHIRLEY MCKELLAR
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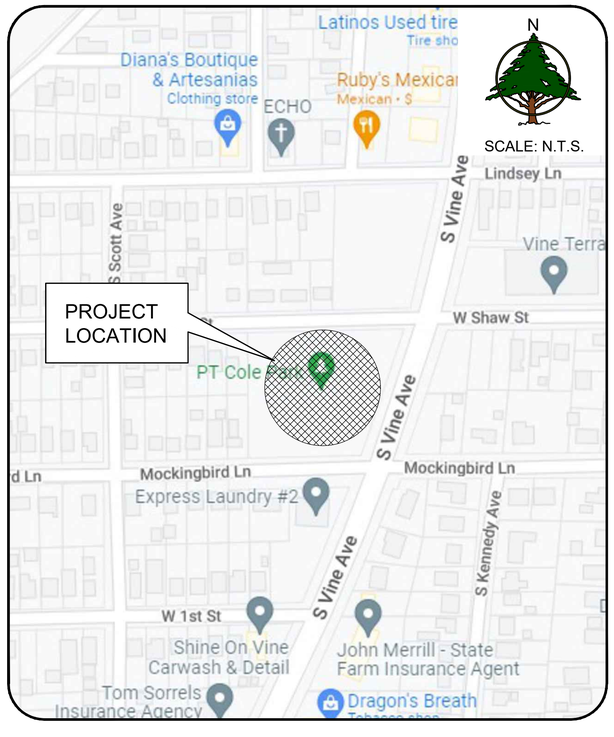
VICINITY MAP



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Know what's **below.**
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REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10/11/22

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

COVER SHEET

P.T. COLE PARK
CITY OF TYLER, TEXAS

DRAWN: JHD
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C1

GENERAL CONSTRUCTION NOTES:

1. 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.

2. 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.

3. 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.

4. 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.

5. ALL WORK ON THESE PLANS SHALL BE DONE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.

6. 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.

7. 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.

8. 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:

1. 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.

2. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE TPDES.

3. CONTRACT SHALL 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.

4. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED.

5. AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.

6. SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED.

7. 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.

8. 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.

9. LOCATION OF CONSTRUCTION EXITS SHALL BE PLACED IN THE FIELD AND APPROVED BY THE ENGINEER.

10. 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.

11. ALL WASTE MANAGEMENT PRACTICES (EXISTING HAZARDOUS WASTE, SOLID WASTE, CONCRETE WASTE, ETC.) SHALL COMPLY WITH TCEQ REQUIREMENTS.

DEMOLITION NOTES:

1. 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.

2. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION, AND DISPOSAL OF ALL DEMOLITION DEBRIS.

3. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR DEMOLITION OF STRUCTURES.

4. NOTES SHOWN HEREON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND DETERMINING THE EXTENT OF EXISTING IMPROVEMENTS TO BE REMOVED FROM THE SITE.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANIES ON THE DISCONNECTION OR TERMINATION OF ANY UTILITIES SERVING THIS AREA.

7. ALL FENCING AND OTHER MAN-MADE ELEMENTS, ETC., WITHIN CONSTRUCTION AREA, UNLESS OTHERWISE IDENTIFIED, SHALL BE REMOVED AND DISPOSED OF OFF SITE.

8. 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.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED DEMOLITION PERMITS.

10. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION, SITE PREPARATION AND EARTHWORK FOR THIS PROJECT.

UTILITY NOTES:

1. ALL WATER AND SEWER IMPROVEMENTS SHALL BE DESIGNED, CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS AND CITY STANDARD DETAILS.

2. ALL WATER MAINS, UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM COVER OF 60 INCHES BELOW TOP OF GRADE. PROVIDE VALVE EXTENSIONS TO ALL VALVES ON LINES DEEPER THAN 60 INCHES.

3. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE (9) FEET IN ALL DIRECTIONS, AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:

   A. WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS, AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.

   B. WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.

   C. WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.

   D. WHERE A SEWER CROSSES OVER A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PROCEDURE, THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.

   E. THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS (A) OR (D) OF THIS PARAGRAPH.

   F. THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY 2 FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS (C) OR (D).

4. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEANUP AND ALIGNMENT HAS BEEN COMPLETED, THE CONTRACTOR (UTILITY) SHALL POUR A CONCRETE BLOCK 24"X24"X6" AROUND ALL VALVE BOX TOPS SO THAT THE TOP OF BOX IS LEVEL WITH THE FINISHED GRADE.

5. ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM VERTICAL SEPARATION BETWEEN STORM SEWER OF EIGHTEEN (18) INCHES. CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING 45-DEG. BENDS WHERE NECESSARY TO ROUTE PROPOSED WATER LINES AROUND PROPOSED SANITARY OR STORM SEWERS.

6. CITY UTILITY STANDARD DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE ON SITE CONSTRUCTION DETAILS AND SITE WORK SPECIFICATIONS FOR ALL WORK SHOWN HEREIN.

7. WATER AND SANITARY SEWER IMPROVEMENTS MUST BE CONSTRUCTED UNDER A 3-WAY CONTRACT USING AN APPROVED UTILITY CONTRACTOR AND IN ACCORDANCE WITH CITY OF TYLER CODE OF ORDINANCE SECTION 19-11 THROUGH 19-17.

8. FIRE HYDRANTS SHALL BE PLACED 2' TO 6' FROM BACK OF CURB.

9. FIRE HYDRANTS SHALL BE CITY APPROVED AND COLOR CODED.

10. ALL GATE VALVES AND FITTINGS SHALL BE CITY APPROVED.

11. MATERIALS AND INSTALLATION FOR ALL PROPOSED UTILITY LINES AND APPURTENANCES SHALL COMPLY WITH THE REQUIREMENTS IN THE SPECIFICATIONS.

12. CONTRACTOR SHALL ON ALL WET UTILITIES, COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE OWNERS INSPECTING AUTHORITIES.

13. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE CITY UTILITY DEPARTMENT AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.

14. DIMENSIONS SHOWN ARE TO CENTER LINE OF PIPE OR FITTING OR TO CENTER OF MANHOLE.

15. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE SIX INCHES ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

16. CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATERTIGHT.

17. CONTRACTOR SHALL RAISE/LOWER OR ADJUST ALL EXISTING UTILITY MAINS IN CONFLICT WITH PROPOSED UTILITIES AS PART OF THE BASE BIDS FOR ALL KNOWN OR UNKNOWN LINES.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL LINES TO BE INSTALLED BY THE UTILITY COMPANIES.

19. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE TRENCH. THE TRENCH SHALL BE BACKFILLED ONLY WITH QUALITY BACKFILL PER THE TECHNICAL SPECIFICATIONS.

20. BACKFILL FOR UTILITY LINES SHALL BE CAREFULLY PLACED SO THAT IT WILL BE STABLE. WHERE UTILITY LINES PASS UNDER PAVED AREAS, THE TOP 6" OF BACKFILL SHALL BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY TRENCHES SHALL BE VISIBLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE UNDESIRABLE FILL IS NOT USED.

21. ALL WATER AND SEWER TAPS, AND METERS (LESS THAN 3 INCHES) SHALL BE INSTALLED BY THE CITY OF TYLER AT THE CONTRACTOR'S EXPENSE. CALL ENGINEERING PLAN REVIEW AT (903) 531-1171 FOR COST AND COORDINATION.

PAVING / DRAINAGE NOTES:

1. 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.

2. 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.

3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.

4. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATER-TIGHT FIT.

5. 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.

6. ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE OF MAX. 5.0% AND CROSS SLOPE OF MAX. 2.0%, PER TAS REQUIREMENTS.

7. RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE SITEWORK SPECIFICATIONS & DETAILS.

8. IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.010 FEET.

9. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT, WHERE APPLICABLE.

10. CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT AT ADJACENT ROADWAYS.

11. ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING, WHERE APPLICABLE.

12. DRAINAGE SHALL BE MAINTAINED AWAY FROM FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.

13. ALL EARTHWORK AND PAVING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT (PROJECT #CM225107) BY TERRACON, INC. DATED 10/10/2022.

14. ALL PROPOSED CONTOURS AND SPOT GRADES ARE FOR THE FINISHED SURFACE. CONTRACTOR SHALL ADJUST ROUGH GRADING AS NEEDED TO ACCOUNT FOR IMPORT MATERIALS.

15. ALL PAVING AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS. WHERE ANY QUESTIONS ARISE AS TO THE INTERPRETATION OF THE STANDARDS OF DESIGN, PLEASE CONTACT THE CONSULTANT.

16. FIRE LANES SHALL MEET FIRE CODE REQUIREMENTS.

LANDSCAPE / IRRIGATION NOTES:

1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND ORDINANCES.

2. THE CONTRACTOR IS REQUIRED TO GRASS ALL AREAS DISTURBED BY CONSTRUCTION.

3. AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.

4. ALL PROPOSED PLANTS SHALL BE STAKED ON THE GROUND AND APPROVED BY CONSULTANT BEFORE BEING PLANTED.

5. ALL PLANTING BEDS SHALL HAVE 4 INCH DEEP HARDWOOD MULCH.

6. ALL LAWN AREAS SHALL BE SPRAYED WITH HERBICIDE, CROSS DISCED AND DRAGGED UNTIL SMOOTH PRIOR TO SEEDING.

7. 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.

8. SPRINKLER AND VALVE LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC.

9. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE UNLESS OTHERWISE SPECIFIED.

10. COORDINATE ALL MAINLINE AND LATERAL PIPE INSTALLATION LOCATIONS WITH ELECTRICAL PLANS AND ADJUST AS NECESSARY.

11. IRRIGATION CONTROLLERS ARE TO BE PLACED IN THE LOCATIONS SHOWN ON THE PLANS. COORDINATE W/ ELECTRICAL DRAWINGS FOR CONTROLLER LOCATION & POWER SOURCE LOCATION.

12. 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.

13. 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.

14. 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.

15. 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.

16. ALL PIPES UNDER WALKWAYS AND DRIVEWAYS SHALL BE SLEEVED.

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

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
10/11/22

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

GENERAL NOTES

P.T. COLE PARK
CITY OF TYLER, TEXAS

DRAWN: JHD
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C2

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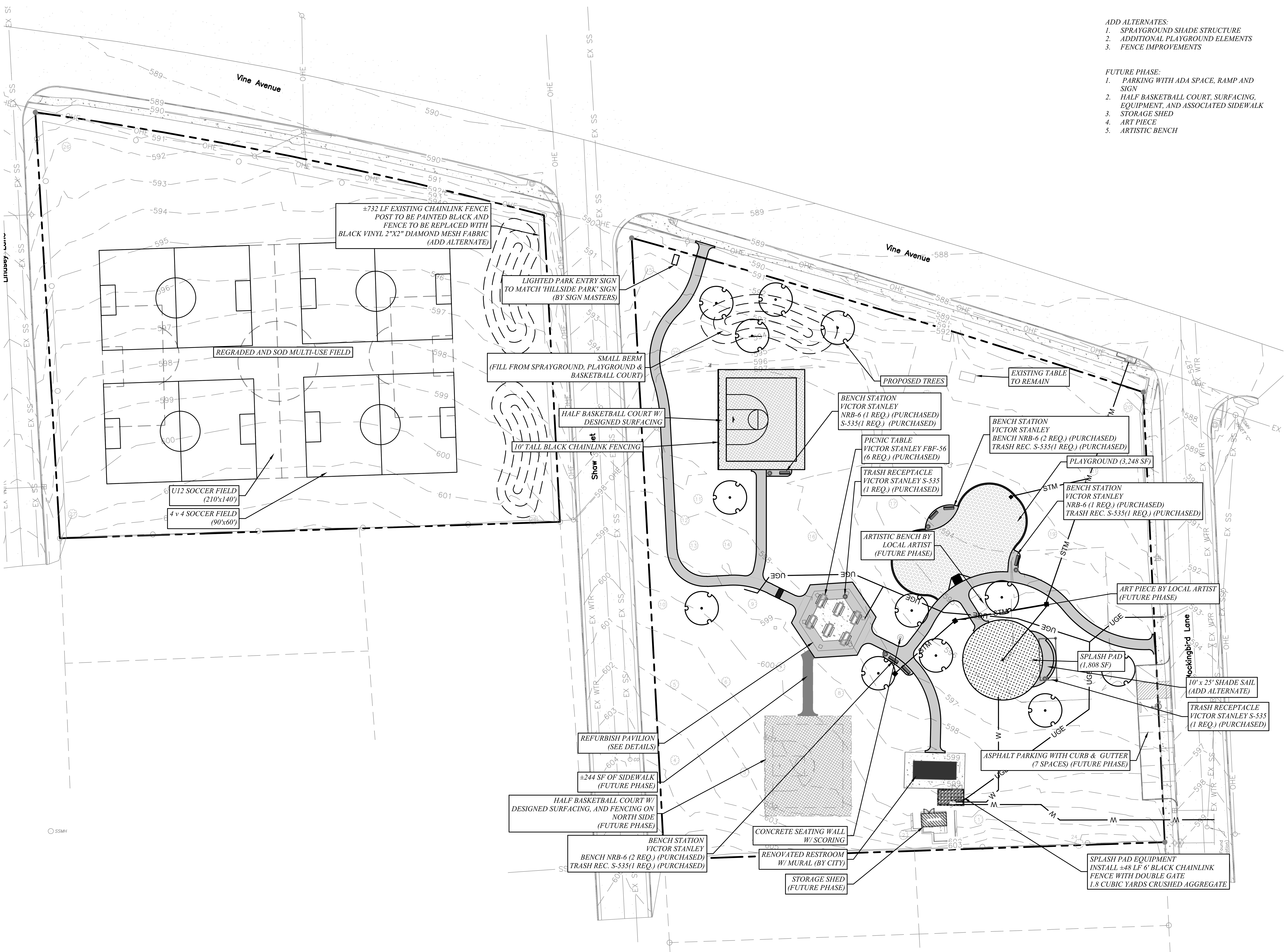

ADD ALTERNATES:
1. *SPRAYGROUND SHADE STRUCTURE*
2. *ADDITIONAL PLAYGROUND ELEMENTS*
3. *FENCE IMPROVEMENTS*

FUTURE PHASE:
1. *PARKING WITH ADA SPACE, RAMP AND SIGN*
2. *HALF BASKETBALL COURT, SURFACING, EQUIPMENT, AND ASSOCIATED SIDEWALK*
3. *STORAGE SHED*
4. *ART PIECE*
5. *ARTISTIC BENCH*

0 30 60 FEET
GRAPHIC SCALE

LEGEND

- PROPERTY LINE
- W — WATER LINE
- SS — SANITARY SEWER PIPE
- STM — STORM SEWER PIPE
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC & TELECOMMUNICATION
- 6" ASPHALT PAVEMENT
- 4" CONCRETE SIDEWALK
- PLAYGROUND
- SPRAYGROUND
- BASKETBALL COURT
- EXISTING TREES

TREE TABLE

Point	Size	Type
1	24"	Live Oak
2	36"	Post Oak
3	8"	Red Bud
4	54"	Water Oak
5	10"	Chinese Pistache
6	18"	Sycamore
7	20"	Sycamore
8	18"	Chinquapin Oak
9	26"	Sycamore
10	15"	Pin Oak
11	24"	Water Oak
12	15"	Water Oak
13	15"	Water Oak
14	18"	Pin Oak
15	48"	Pin Oak
16	14"	Burch
17	12"	Chinese Pistache
18	50"	Live Oak
19	10"	Chinese Pistache
20	12"	Pecan
21	8"	Chinese Pistache
22	14"	Pecan
23	38"	Pin Oak
24	36"	Water Oak
25	10"	Chinese Pistache
26	42"	Water Oak
27	15"	Water Oak
28	42"	Hackberry

CONTROL POINT TABLE

Control Point	Northing	Easting	Elev.	Description
CP 1	6820826.188	2953768.974	598.399	1/2" IRS "Red Cap"
CP 5	6820835.552	2954073.795	587.416	1/2" IRS "Red Cap"
CP 9A	6820117.314	2953758.925	590.712	1/2" IRS "Red Cap"
CP 10A	6820478.568	2954004.487	589.279	1/2" IRS "Red Cap"
CP 11A	6820466.498	2953576.626	604.476	1/2" IRS "Red Cap"
CP 12A	6820108.670	2953572.794	598.366	1/2" IRS "Red Cap"
COT BM # T-090	6820485.929	2953904.593	591.037	City of Tyler Benchmark

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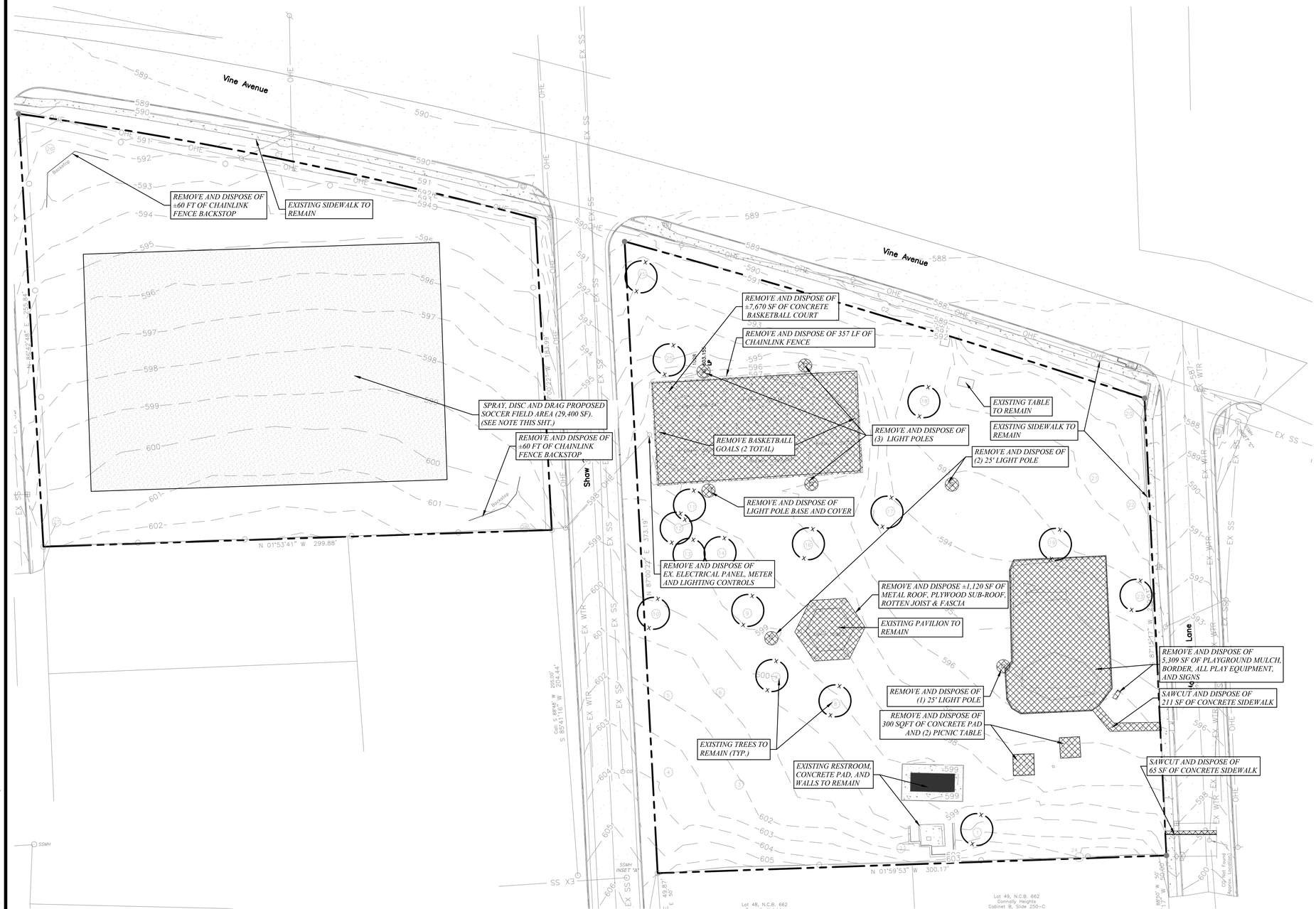
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
903-597-6606 TBPE No. 14571

SITE PLAN

P.T. COLE PARK
CITY OF TYLER, TEXAS

DRAWN:	JHD
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C3



LEGEND

- EXISTING CONTOUR
- SAWCUT LINE
- TO BE REMOVED
- TREE PROTECTION

TREE TABLE

Point	Size	Type
1	24"	Live Oak
2	36"	Post Oak
3	8"	Red Bud
4	54"	Water Oak
5	10"	Chinese Pistache
6	18"	Sycamore
7	20"	Sycamore
8	18"	Chinquapin Oak
9	26"	Sycamore
10	15"	Pin Oak
11	24"	Water Oak
12	15"	Water Oak
13	15"	Water Oak
14	18"	Pin Oak
15	48"	Pin Oak
16	14"	Burch
17	12"	Chinese Pistache
18	50"	Live Oak
19	10"	Chinese Pistache
20	12"	Pecan
21	8"	Chinese Pistache
22	14"	Pecan
23	38"	Pin Oak
24	36"	Water Oak
25	10"	Chinese Pistache
26	42"	Water Oak
27	15"	Water Oak
28	42"	Hackberry

SOCCER FIELD NOTES:

STEP 1 - SPRAY PROPOSED FIELD AREA WITH HERBICIDE (ROUNDUP OR APPROVED EQUAL)

STEP 2 - DISC AND DRAG THE PROPOSED FIELD AREA (6" DEPTH)

STEP 3 - GRADE SOCCER FIELD (SEE GRADING PLAN)

Know what's below. Call before you dig.

L:\city of tyler\22-069 pt cole (ccltl)\CAD\03 - production\DEMOLITION PLAN.dwg

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10/11/22

MHS
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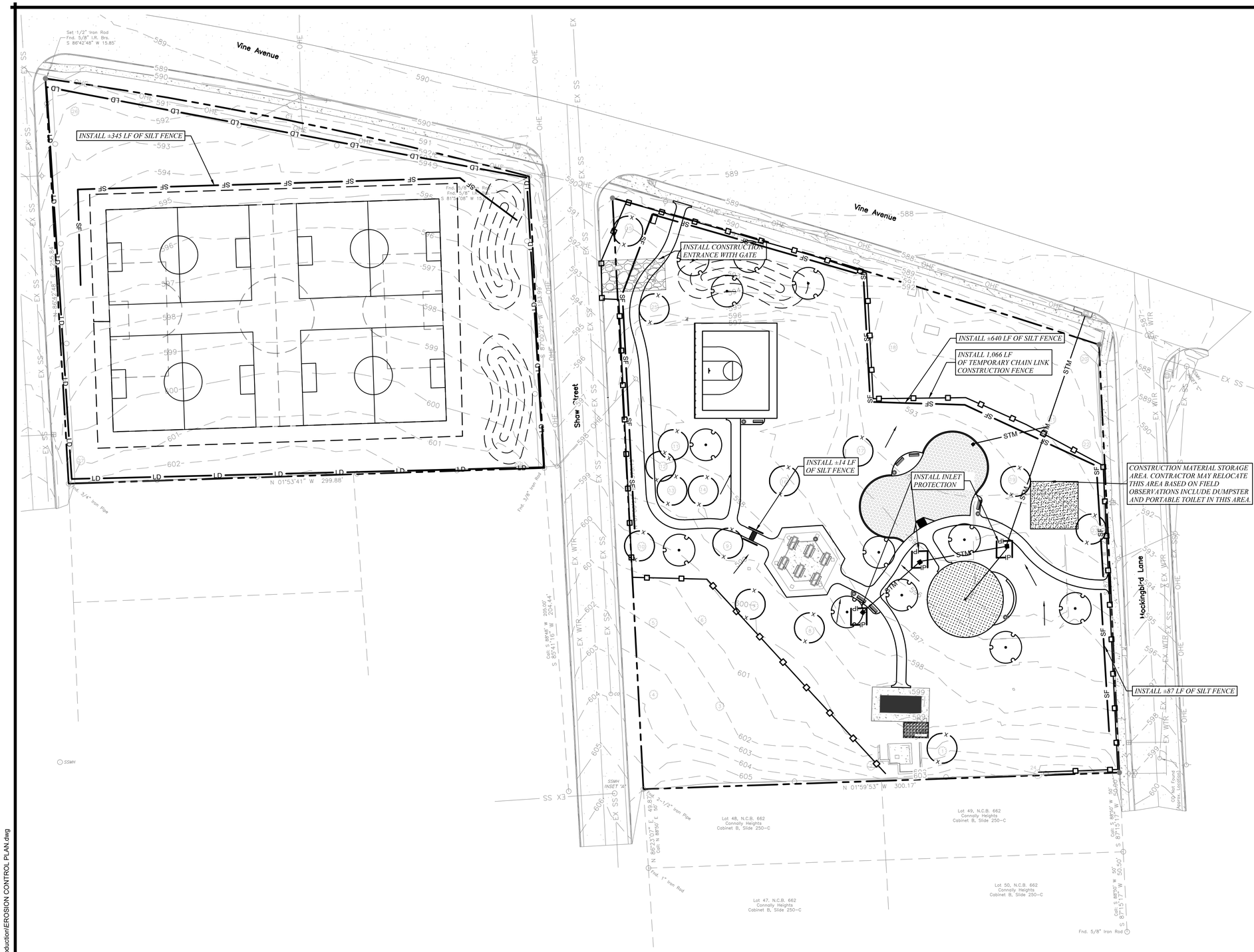
DEMOLITION PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C4



LEGEND

- 500 — EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- LD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- FLOW ARROW
- CONSTRUCTION EXIT

CONSTRUCTION ENTRANCE NOTE:

CONTRACTOR MIGHT MODIFY THE LOCATION OF THE CONSTRUCTION ENTRANCE AS NEEDED. ANY OFF-SITE TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS SHALL BE REMOVED ON A DAILY BASIS AS NEEDED.

TEMPORARY CONSTRUCTION SIGN LAYOUT, MATERIALS AND SIZES TO BE SUBMITTED FOR CONTRACTOR AND CITY'S APPROVAL PRIOR TO ORDERING AND INSTALLATION

TREE TABLE

Point	Size	Type
1	24"	Live Oak
2	36"	Post Oak
3	8"	Red Bud
4	54"	Water Oak
5	10"	Chinese Pistache
6	18"	Sycamore
7	20"	Sycamore
8	18"	Chinquapin Oak
9	26"	Sycamore
10	15"	Pin Oak
11	24"	Water Oak
12	15"	Water Oak
13	15"	Water Oak
14	18"	Pin Oak
15	48"	Pin Oak
16	14"	Burch
17	12"	Chinese Pistache
18	50"	Live Oak
19	10"	Chinese Pistache
20	12"	Pecan
21	8"	Chinese Pistache
22	14"	Pecan
23	38"	Pin Oak
24	36"	Water Oak
25	10"	Chinese Pistache
26	42"	Water Oak
27	15"	Water Oak
28	42"	Hackberry

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10/11/22

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EROSION CONTROL PLAN

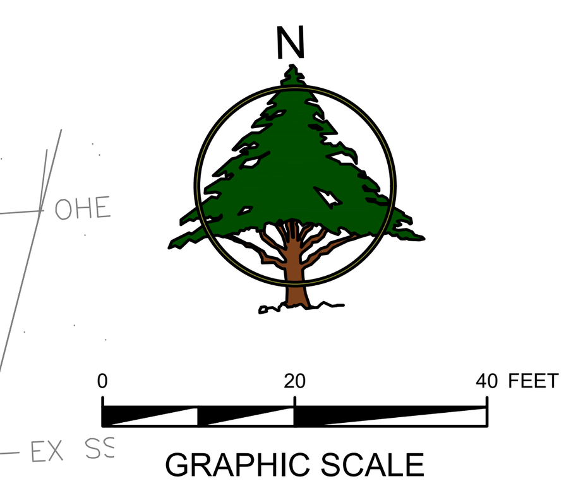
P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C5

I:\city of tyler\22-069 pt cole (cott)\CAD\03 - production\EROSION CONTROL PLAN.dwg



LEGEND

—500—	EXISTING CONTOUR
(500)	PROPOSED CONTOUR
— ▸ —	DIRECTION OF FLOW
⟶	FLOW ARROW
±528.2(ex.)	EXISTING SPOT ELEVATION
525.8	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

EARTHWORK SUMMARY

SURFACE CALCULATIONS:

SOUTH TRACT (PLAYGROUND)
CUT = 766 C.Y.
FILL = 916 C.Y.
NET = 150 C.Y. <FILL>

NORTH TRACT (SOCCER FIELDS)
CUT = 1763 C.Y.
FILL = 358 C.Y.
NET = 1,405 C.Y. <CUT>

TOTAL SITE
CUT = 2529 C.Y.
FILL = 1274 C.Y.
NET = 1,255 C.Y. <CUT>

NOTE:
SURFACE CALCULATIONS ARE BASED ON THE DIFFERENCE BETWEEN TOP OF FINISHED GRADE & EXISTING GROUND. ALL EARTHWORK QUANTITIES ARE APPROXIMATE.

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

REVISIONS:

STATE OF TEXAS — WILLIAM H. SPENCER — 107759 — LICENSED PROFESSIONAL ENGINEER — 10/11/22

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GRADING PLAN I

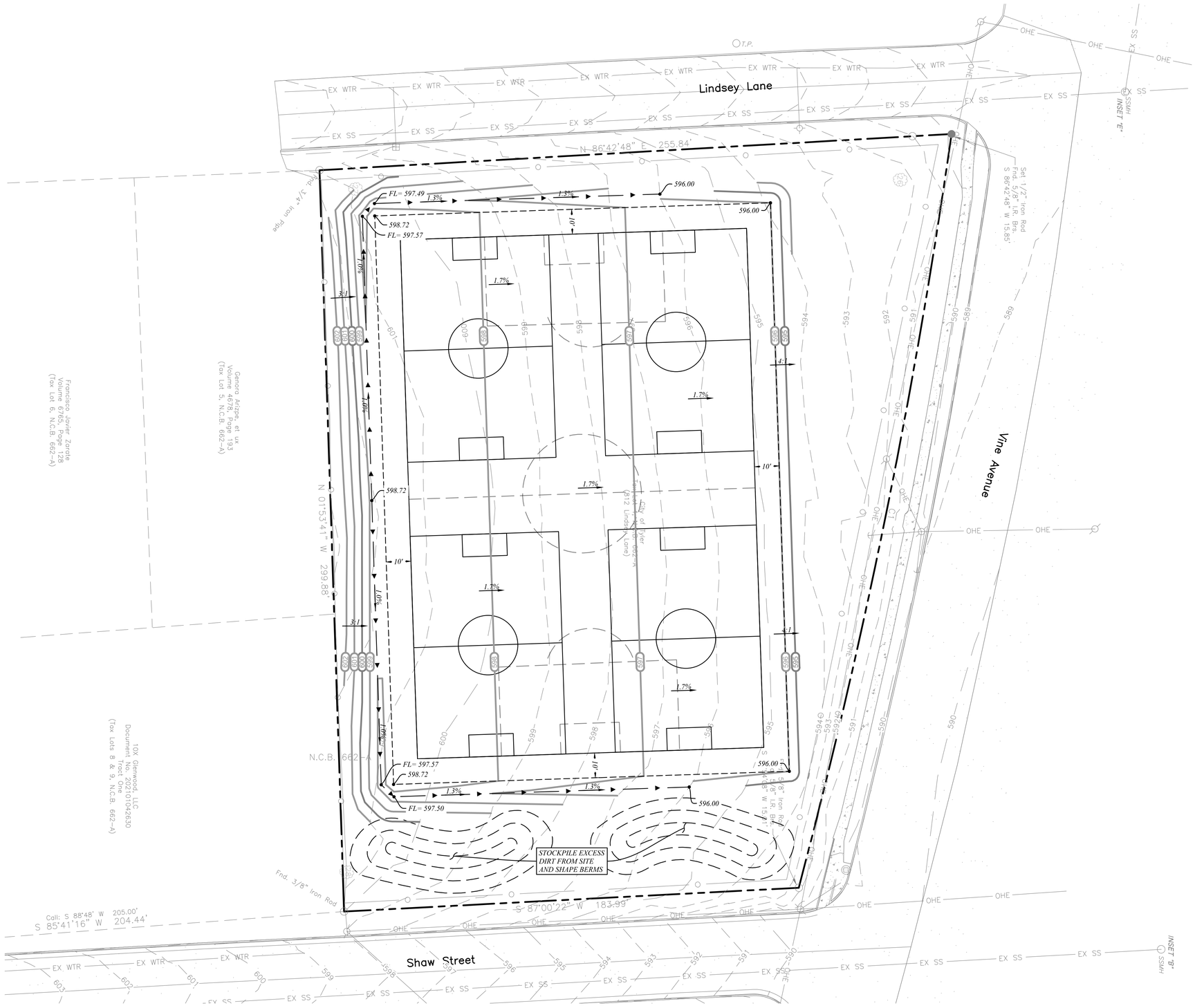
P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	NSR
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C6

I:\city of tyler\22-069 pt cole (coft)\CAD\03 - production\GRADING PLAN.dwg



N

0 20 40 FEET

GRAPHIC SCALE

LEGEND

—500—	EXISTING CONTOUR
500	PROPOSED CONTOUR
	DIRECTION OF FLOW
	FLOW ARROW
±528.2(ex.)	EXISTING SPOT ELEVATION
525.8	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

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
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LICENSED
PROFESSIONAL ENGINEER
10/11/22

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GRADING PLAN II

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	NSR
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C7

Know what's below.
Call before you dig.

L:\city of tyler\22-069 pt cole (cott)\CAD\03 - production\GRADING PLAN.dwg

DRAINAGE AREA CALCULATIONS								
DRAINAGE AREA NO.	ACRES DRAINED OPEN C = 0.35	SINGLE FAMILY < 1 ACRE LOTS C = 0.50	PAVEMENT C = 0.90	TOTAL AREA (AC.)	WEIGHTED RUNOFF COEFFICIENT	TIME OF CONCENTRATION (MIN)	I(100) (IN/HR)	Q(100) CFS
PRE-A	1.75			1.75	0.35	10	8.82	5.40
PRE-B	1.71		0.21	1.92	0.41	10	8.82	6.95
OS1		0.14		0.14	0.50	10	8.82	0.62
OS2		0.14		0.14	0.50	10	8.82	0.62

LEGEND

- 500 — EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- DIRECTION OF FLOW
- FLOW ARROW

1.96 / 4.69 — AREA (ac) / FLOW (cfs)

Q = cIA

c = 0.35 - 0.63
I = 8.82 (in/hr)
tc = 10 (min.)

NOTES:

1. *OFFSITE AREAS ARE MINIMAL DUE TO ADJACENT PROPERTY ROOF LINES AND DRIVEWAYS DRAINING TO THE NORTH AND SOUTH OUT TO THE ROADWAYS.*

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

REVISIONS:

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
10/11/22

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TBPE No. 14571

EXISTING DRAINAGE AREA MAP

P.T. COLE PARK
CITY OF TYLER, TEXAS

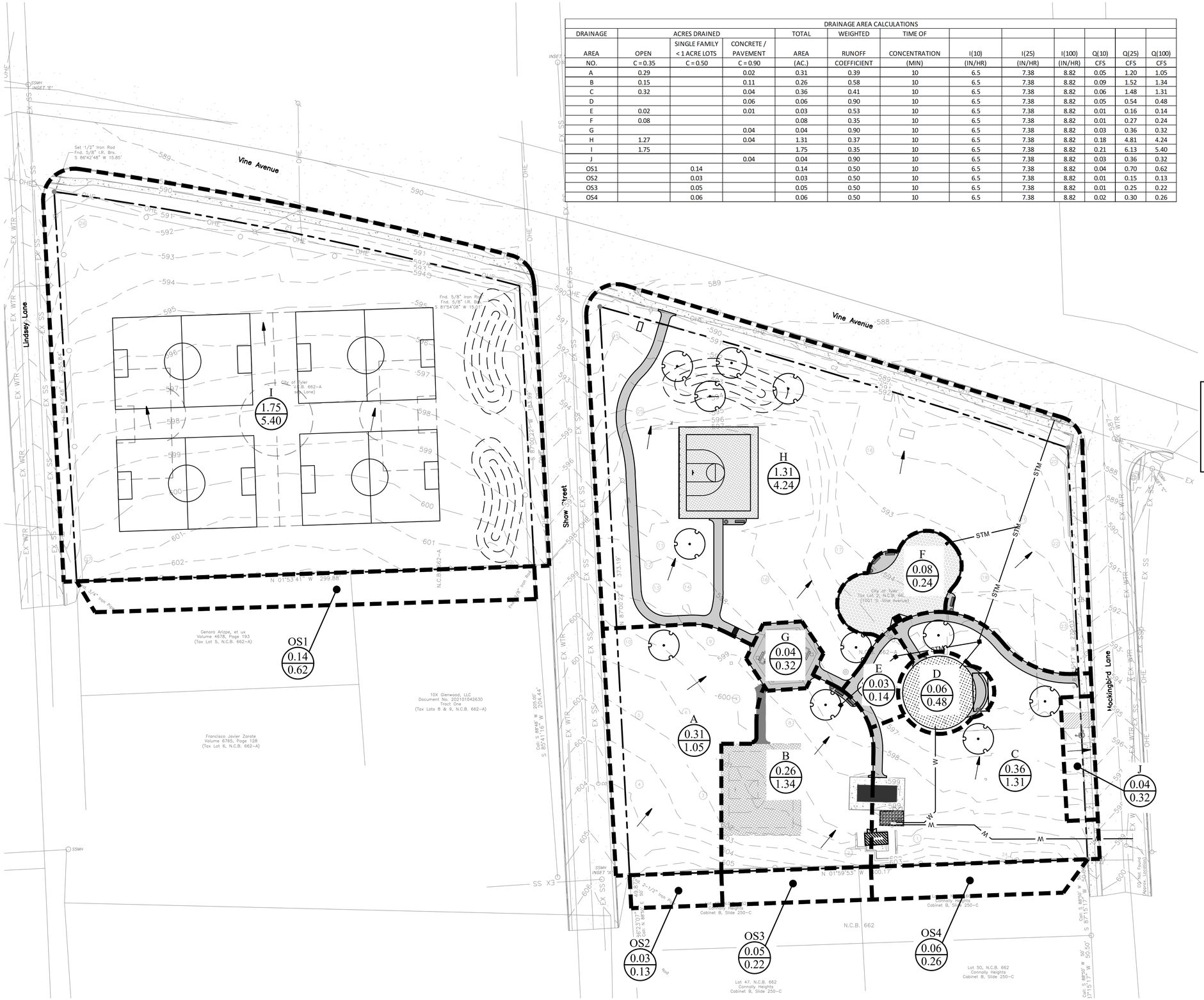
DRAWN:	JHD
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C8

I:\city of tyler\22-069 pt cole (colt)\CAD\03 - production\EXISTING DRAINAGE AREA MAP.dwg

DRAINAGE AREA CALCULATIONS

DRAINAGE AREA NO.	ACRES DRAINED: OPEN C = 0.35	ACRES DRAINED: SINGLE FAMILY < 1 ACRE LOTS C = 0.50	ACRES DRAINED: CONCRETE / PAVEMENT 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	0.29		0.02	0.31	0.39	10	6.5	7.38	8.82	0.05	1.20	1.05
B	0.15		0.11	0.26	0.58	10	6.5	7.38	8.82	0.09	1.52	1.34
C	0.32		0.04	0.36	0.41	10	6.5	7.38	8.82	0.06	1.48	1.31
D			0.06	0.06	0.90	10	6.5	7.38	8.82	0.05	0.54	0.48
E	0.02		0.01	0.03	0.53	10	6.5	7.38	8.82	0.01	0.16	0.14
F	0.08			0.08	0.35	10	6.5	7.38	8.82	0.01	0.27	0.24
G			0.04	0.04	0.90	10	6.5	7.38	8.82	0.03	0.36	0.32
H	1.27		0.04	1.31	0.37	10	6.5	7.38	8.82	0.18	4.81	4.24
I	1.75			1.75	0.35	10	6.5	7.38	8.82	0.21	6.13	5.40
J			0.04	0.04	0.90	10	6.5	7.38	8.82	0.03	0.36	0.32
OS1		0.14		0.14	0.50	10	6.5	7.38	8.82	0.04	0.70	0.62
OS2		0.03		0.03	0.50	10	6.5	7.38	8.82	0.01	0.15	0.13
OS3		0.05		0.05	0.50	10	6.5	7.38	8.82	0.01	0.25	0.22
OS4		0.06		0.06	0.50	10	6.5	7.38	8.82	0.02	0.30	0.26



0 30 60 FEET

GRAPHIC SCALE

LEGEND

500 — *EXISTING CONTOUR*

500 — *PROPOSED CONTOUR*

DRAINAGE AREA

1.96 / 4.69 — AREA (ac) / FLOW (cfs)

Q = cIA

c = 0.35 - 0.90
I = 7.85 (in/hr)
tc = 10 (min.)

NOTES:

1. *OFFSITE AREAS ARE MINIMAL DUE TO ADJACENT PROPERTY ROOF LINES AND DRIVEWAYS DRAINING TO THE NORTH AND SOUTH OUT TO THE ROADWAYS.*
2. *ON SITE PROPOSED DRAINAGE AREAS INCLUDE FUTURE ELEMENTS TO DETERMINE DRAINAGE CAPACITY OF INLETS AND PIPES WITH ALL AMENITIES.*

Know what's below. Call before you dig.

REVISIONS:

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LICENSED PROFESSIONAL ENGINEER
10/11/22

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TBPE No. 14571

PROPOSED DRAINAGE AREA MAP

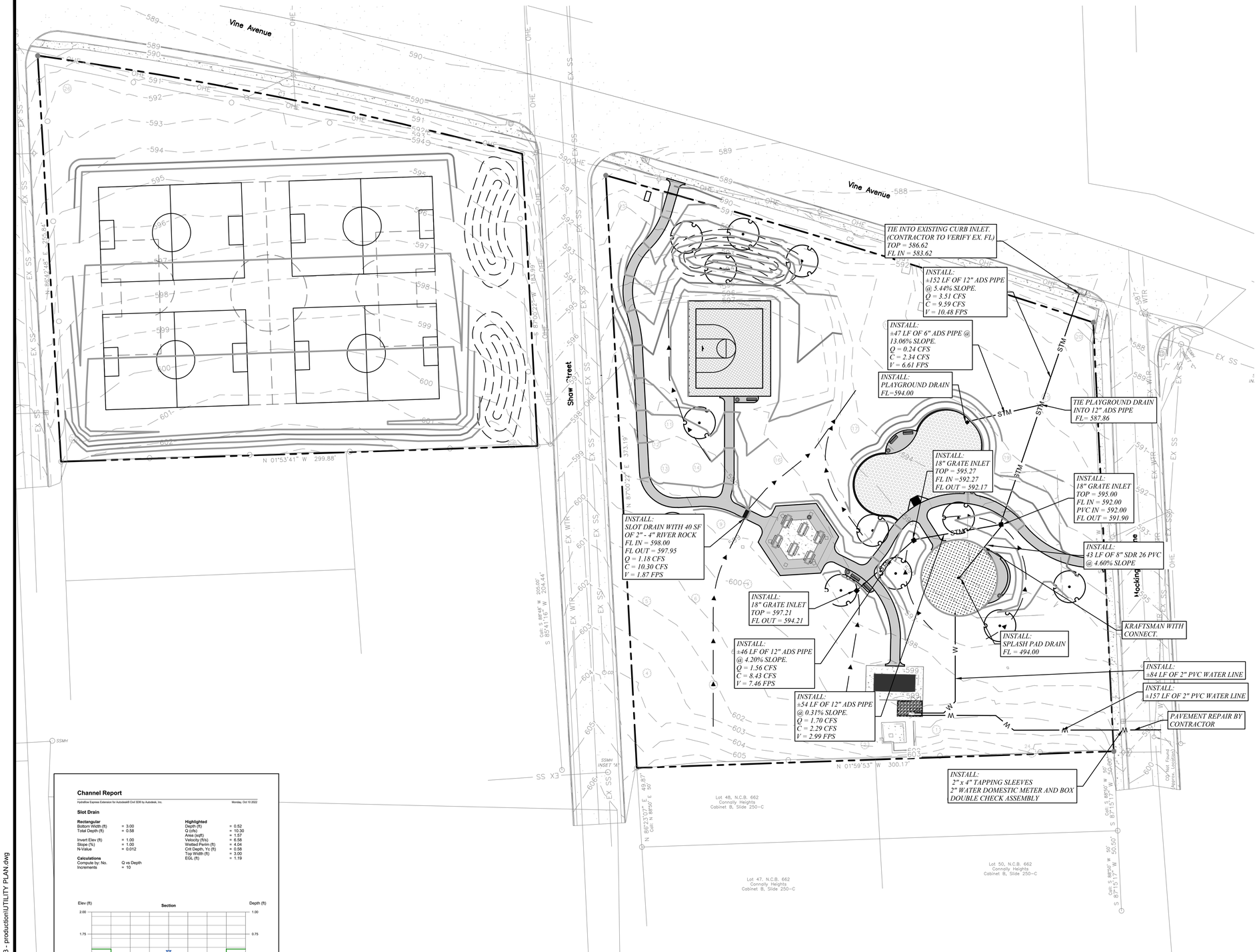
P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	JHD
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C9

I:\city of tyler\22-069 pt cole (coft)\CAD\03 - production\PROPOSED DRAINAGE AREA MAP.dwg



N

0 30 60 FEET

GRAPHIC SCALE

LEGEND

- PROPERTY LINE
- W — WATER LINE
- SS — SANITARY SEWER PIPE
- STM — STORM SEWER PIPE
- OHE — OVERHEAD ELECTRIC
- 6" ASPHALT PAVEMENT
- 4" CONCRETE SIDEWALK
- EWF PLAY GROUND
- SPLASH PAD
- BASKETBALL COURT
- EXISTING TREES

LEGEND

- 500 — EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- DIRECTION OF FLOW
- FLOW ARROW

NOTE: CONTRACTOR TO CONFIRM THAT ON SITE PSI MEETS REQUIRED PSI FOR KRAFTSMAN SPRAYGROUND SYSTEM.

TREE TABLE

Point	Size	Type
1	24"	Live Oak
2	36"	Post Oak
3	8"	Red Bud
4	54"	Water Oak
5	10"	Chinese Pistache
6	18"	Sycamore
7	20"	Sycamore
8	18"	Chinquapin Oak
9	26"	Sycamore
10	15"	Pin Oak
11	24"	Water Oak
12	15"	Water Oak
13	15"	Water Oak
14	18"	Pin Oak
15	48"	Pin Oak
16	14"	Burch
17	12"	Chinese Pistache
18	50"	Live Oak
19	10"	Chinese Pistache
20	12"	Pecan
21	8"	Chinese Pistache
22	14"	Pecan
23	38"	Pin Oak
24	36"	Water Oak
25	10"	Chinese Pistache
26	42"	Water Oak
27	15"	Water Oak
28	42"	Hackberry

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Oct 10 2022

Slot Drain

Rectangular		Highlighted	
Bottom Width (ft)	= 3.00	Depth (ft)	= 0.52
Total Depth (ft)	= 0.58	Q (cfs)	= 10.30
		Area (sqft)	= 1.57
Invert Elev (ft)	= 1.00	Velocity (ft/s)	= 6.58
Slope (%)	= 1.00	Wetted Perim (ft)	= 4.04
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.58
		Top Width (ft)	= 3.00
Calculations		EGL (ft)	= 1.19
Compute by:	No. Q vs Depth		
Increments	= 10		

Section

Elev (ft): 2.00, 1.75, 1.50, 1.25, 1.00, 0.75

Depth (ft): 1.00, 0.75, 0.50, 0.25, 0.00, -0.25

0 .5 1 1.5 2 2.5 3 3.5 4

Reach (ft)

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107759
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10/11/22

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903-597-6606 TBPE No. 14571

DRAINAGE & UTILITY PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN: MEP
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C10

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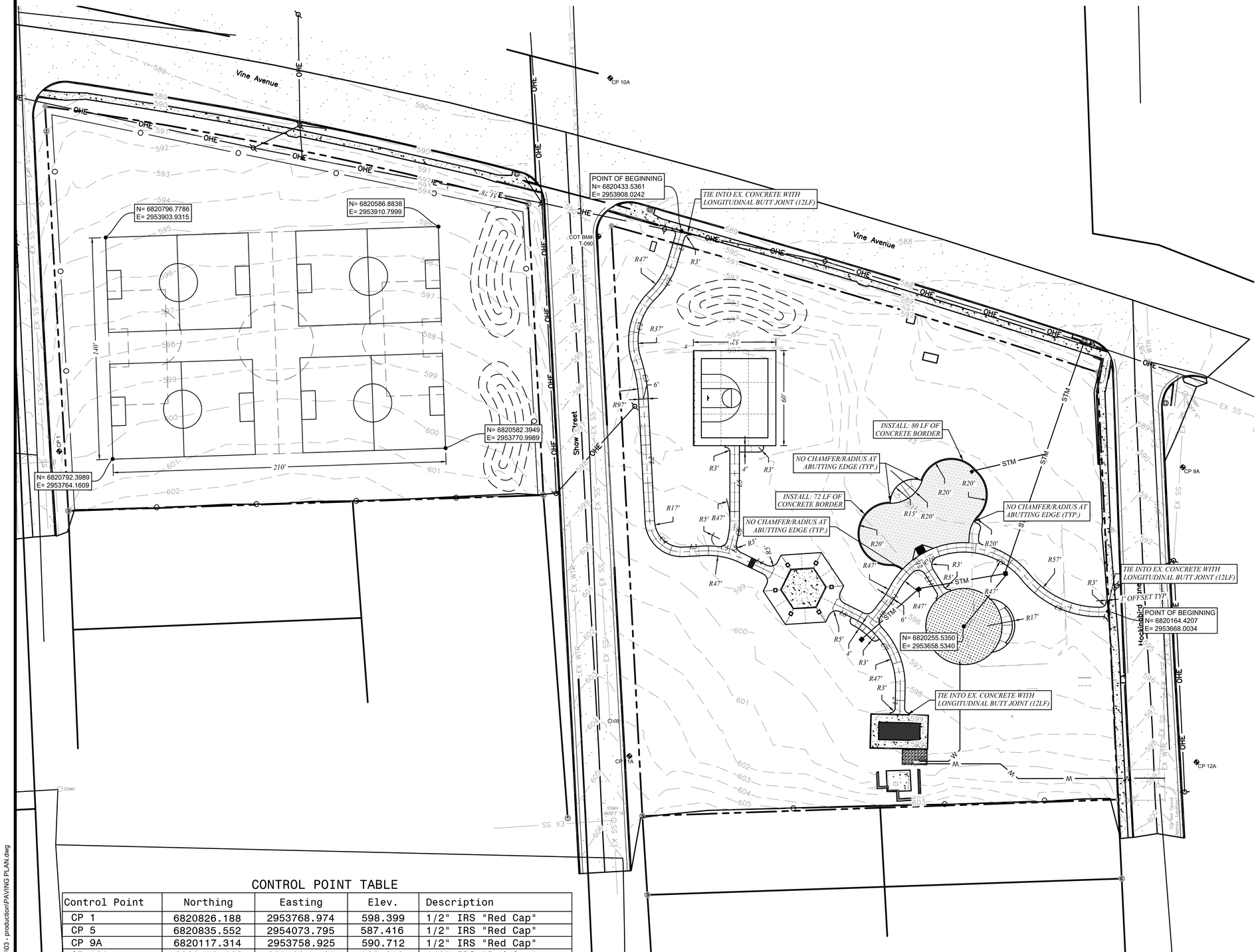

CONTROL POINT TABLE

Control Point	Northing	Easting	Elev.	Description
CP 1	6820826.188	2953768.974	598.399	1/2" IRS "Red Cap"
CP 5	6820835.552	2954073.795	587.416	1/2" IRS "Red Cap"
CP 9A	6820117.314	2953758.925	590.712	1/2" IRS "Red Cap"
CP 10A	6820478.568	2954004.487	589.279	1/2" IRS "Red Cap"
CP 11A	6820466.498	2953576.626	604.476	1/2" IRS "Red Cap"
CP 12A	6820108.670	2953572.794	598.366	1/2" IRS "Red Cap"
COT BM # T-090	6820485.929	2953904.593	591.037	City of Tyler Benchmark

N

0 30 60 FEET

GRAPHIC SCALE

LEGEND

- 4" CONCRETE PAVEMENT ±9,810 SF
- 6" ASPHALT PAVEMENT ±1,573 SF
- SPLASH PAD ±908 SF
- PLAYGROUND ±3,248 SF
- BASKETBALL COURT
- EXPANSION JOINT
- SAW JOINT

NOTES:
ALL PAVING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT (JOB #CM225107) BY TERRACON, INC. DATED OCTOBER 10TH, 2022.

CITY DETAILS TAKE PRECEDENCE IN RIGHTS OF WAY.

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C1	25.61	29.35	50.00
C2	44.02	63.05	40.00
C3	25.35	14.52	100.00
C4	31.40	89.94	20.00
C5	25.39	29.10	50.00
C6	13.20	15.13	50.00
C7	56.69	64.96	50.00
C8	56.68	54.13	60.00
C9	37.34	42.79	50.00
C10	61.97	71.01	50.00
C11	9.40	10.78	50.00
C12	1.39	0.80	100.00
L1	19.61	N73° 49' 17.45"W	
L2	77.67	S86° 58' 48.03"W	
L3	13.12	S2° 57' 52.26"E	
L4	20.52	S26° 08' 03.92"W	
L5	47.50	N90° 00' 00.00"W	
L6	7.74	N74° 52' 25.30"W	
L7	17.17	S88° 42' 15.08"E	
L8	15.20	N26° 19' 55.80"E	
L9	2.34	N3° 08' 59.50"W	
L10	16.03	N52° 02' 33.39"W	
L11	24.61	N57° 37' 30.67"E	

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10/11/22

MHS
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TBPE No. 14571

PAVING PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN: JHD
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C11

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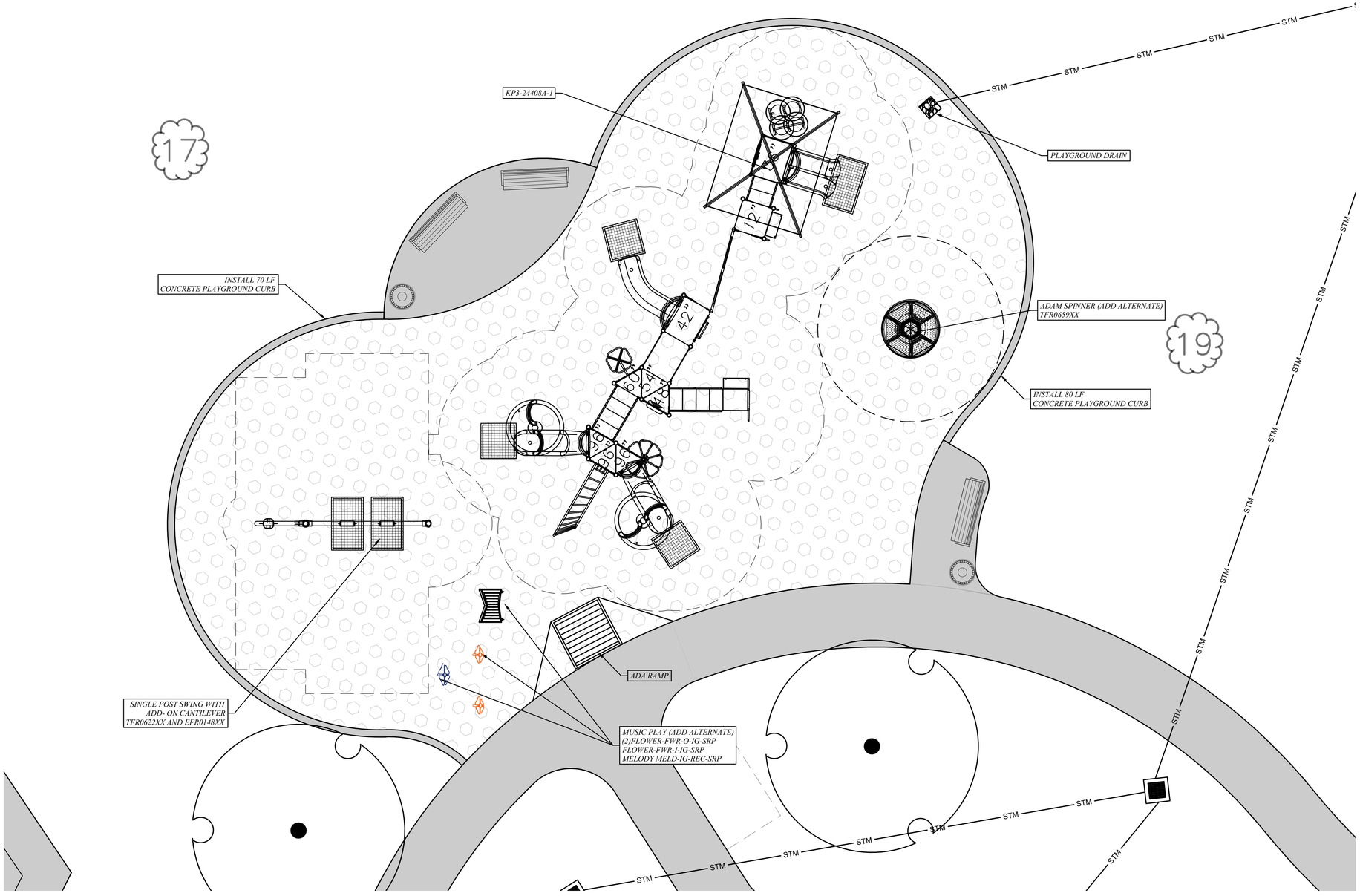

N

0 5 10 FEET

GRAPHIC SCALE

LEGEND

ENGINEERED WOOD FIBER (3,248SFT)

NOTES:

1. *ALL PLAY EQUIPMENT MAY BE SUBSTITUTED FOR AN APPROVED EQUAL.*
2. *EQUIPMENT COLORS TO BE SELECTED BY OWNER FROM STANDARDS.*
3. *PLAYGROUND SUPPLIER TO PROVIDE STAMPED ENGINEERING PLANS FOR THE CITY OF TYLER. APPROVAL UPON ORDER.*
4. *PLAYGROUND IS TO BE A BUYBOARD PURCHASE.*

CONTACT:
RYAN SLOTT
KRAFTSMAN SALES-EAST TEXAS
214-282-9580
RYANS@KRAFTSMANPLAY.COM

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

REVISIONS:

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LICENSED PROFESSIONAL ENGINEER
10/11/22

MHS
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903-597-6606 TBPE No. 14571

PLAYGROUND PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN: MEP
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C12

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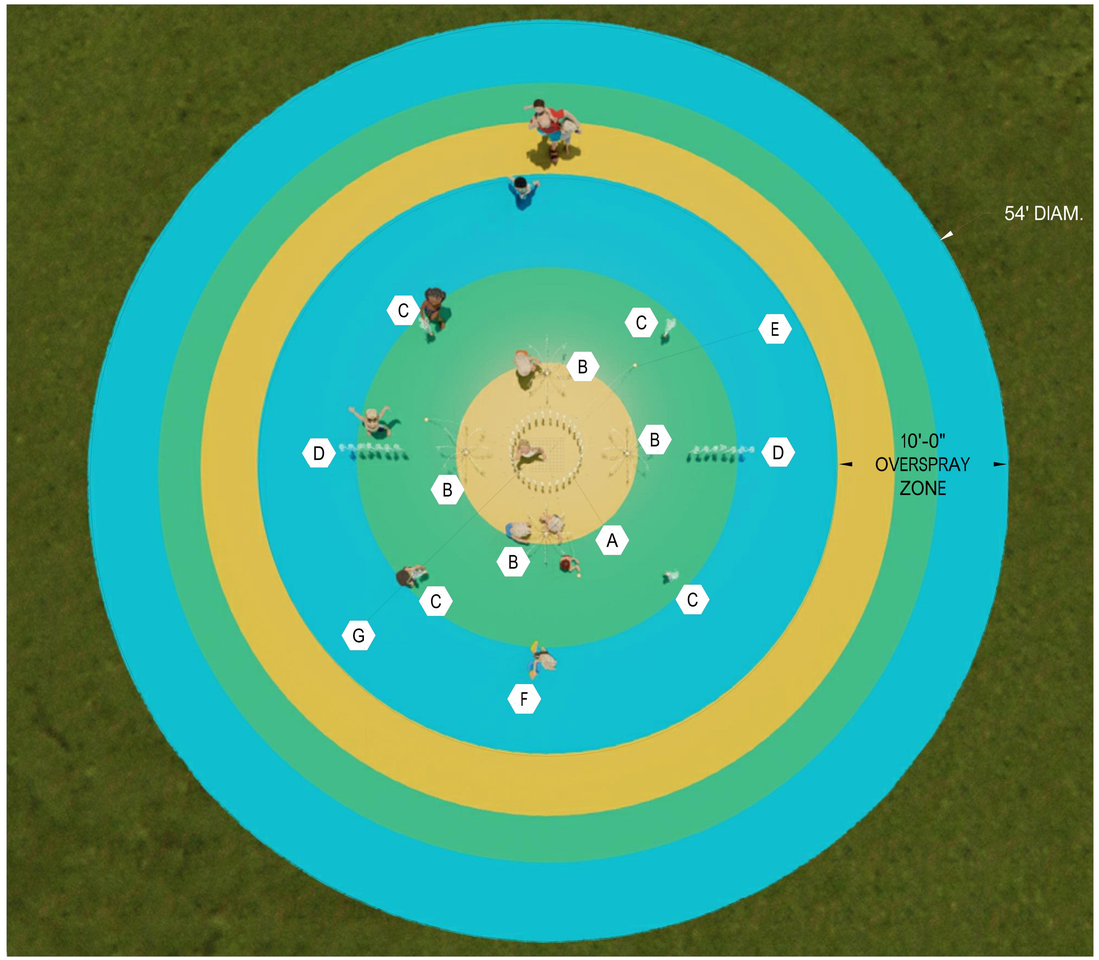
SPRAY FEATURE SCHEDULE

	DESCRIPTION	QTY	GPM
A	W012 WATER CAGE 4' HIGH 60 GPM @ 3 PSI	1	60
B	FMN-100-CJ FLUSH MOUNT JET with CROWN JET NOZZLE 4' HIGH 6 GPM	4	24
C	FMN-100-JC FLUSH MOUNT JET with JET CLUSTER NOZZLE 4' HIGH 11 GPM	4	44
D	W058-3 WATER FENCE 4' HIGH 18 GPM @ 3 PSI	2	36
E	FMN-100-APJ FLUSH MOUNT JET with ADJUSTABLE PRECISION JET NOZZLE 4' HIGH 5.71 GPM	3	18
F	W009 TOUCH & GO WIRED ACTIVATOR	1	0
G	24" x 24" DRAIN W/FIBERGLASS GRATE	1	0
	MAXIMUM TOTAL FLOW RATE: 182 GPM		
	ESTIMATED OPERATING FLOW RATE: 110 GPM		
	TOTAL SPLASHPARK AREA: 2290 SF		
	ESTIMATED CAPACITY: 90 USERS		

NOTES:

1. MIN 5'-0" OVERSPRAY BUFFER IS REQUIRED AT EDGE OF SPLASH DECK.
2. AVERAGE FLOW RATE DURING OPERATION VARIES BASED ON SPRAY FEATURE SEQUENCING. FLOW RATE FOR TYPICAL SEQUENCING CYCLES AVERAGES 60% OF MAXIMUM TOTAL FLOW RATE.
3. CONCRETE IS RECOMMENDED TO NOT EXCEED A 2% SLOPE TO ALLOW FOR ADACOMPLIANCE. THE DROP IS RECOMMENDED TO BE AT LEAST 2" FOR PROPER DRAINAGE.



NOTES:

1. *ALL EQUIPMENT MAY BE SUBSTITUTED FOR AN APPROVED EQUAL.*
2. *KRAFTKOAT DESIGN AND COLORS TO BE SELECTED BY OWNER FROM STANDARDS.*
3. *SPRAYGROUND SUPPLIER TO PROVIDE STAMPED ENGINEERING PLANS FOR THE CITY OF TYLER. APPROVAL UPON ORDER.*
4. *ANY SHADE STRUCTURES TO BE ADD ALTERNATE.*
5. *SPRAYGROUND IS TO BE BUYBOARD PURCHASE.*

CONTACT:
RYAN SLOTT
KRAFTSMAN SALES-EAST TEXAS
214-282-9580
RYANS@KRAFTSMANPLAY.COM

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
10/11/22

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

SPRAYGROUND PLAN

P.T. COLE PARK
CITY OF TYLER, TEXAS

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

THE FUN BUILDERS
KRAFTSMAN
KRAFTSMANPLAY.COM

P.T. Cole Park SplashPark
Tyler, TX

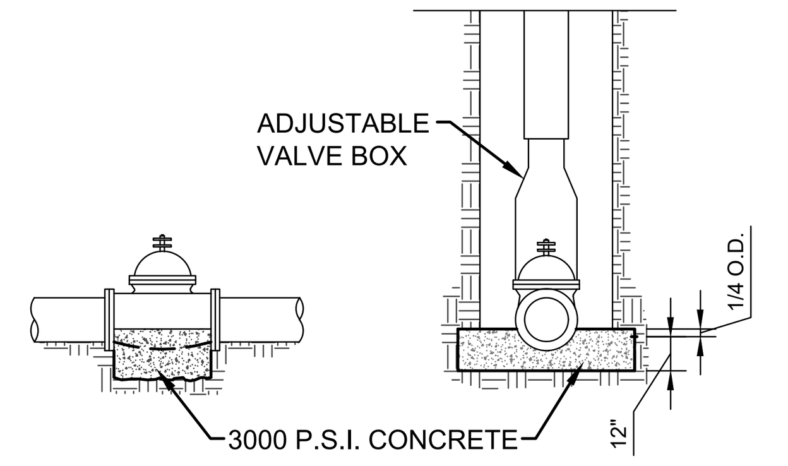
Project	Sheet	Designer	Date
28312 Option 3	K.3	MZB	10.05.2022
Drawing Name	**View**		**Sales Rep.**
KPS-28312-3	SplashPark Feature Layout		Ryan Slott

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

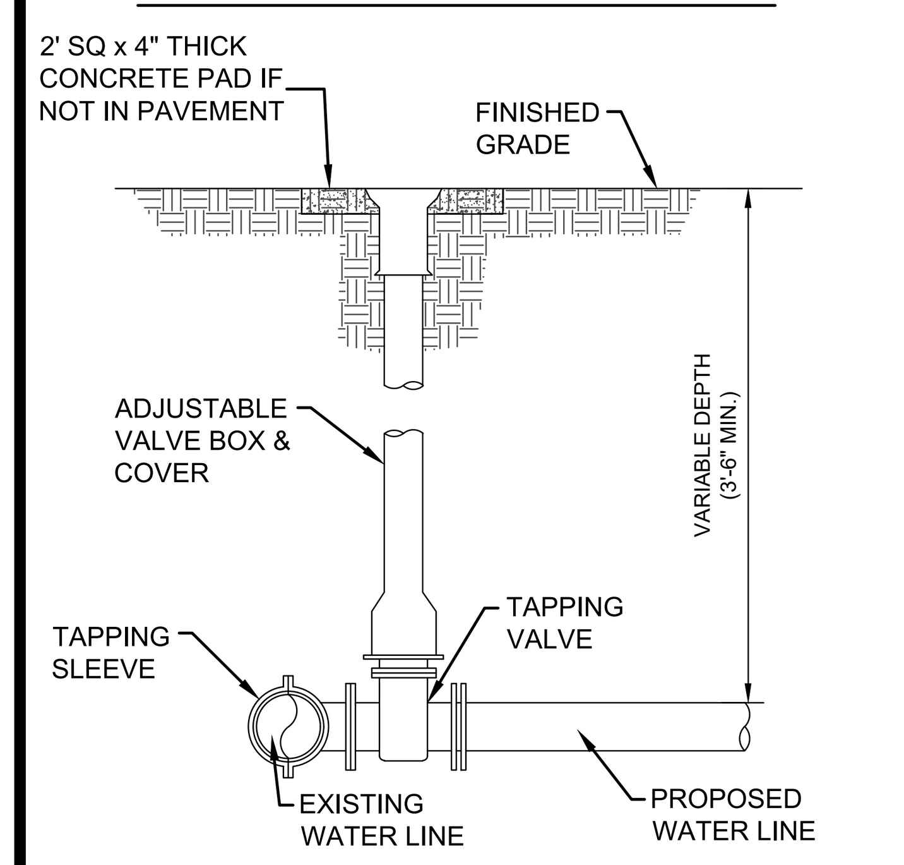
DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C13

I:\city of tyler\22-069 pt cole (cott)\CAD\03 - production\SPLASH PAD PLAN.dwg



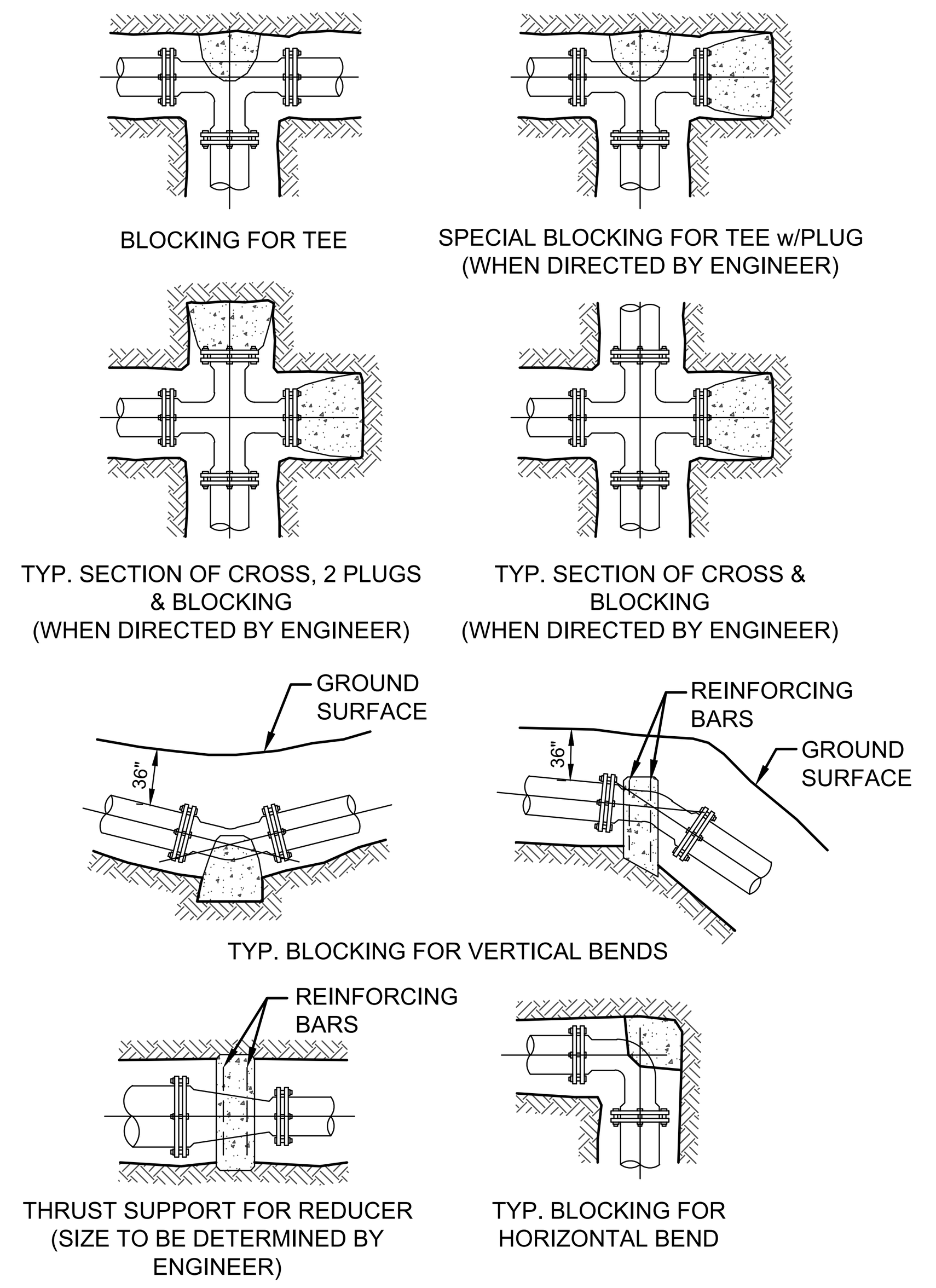
BLOCKING DETAIL FOR VALVE



NOTE: EXIST. WATER LINE SHALL BE TAPPED WHILE UNDER PRESSURE

NOTES:
1. ALL WORK AND MATERIALS SHALL BE SUBJECT TO CITY ENGINEERS APPROVAL DURING CONSTRUCTION AND UPON COMPLETION.
2. ALL CONCRETE SHALL BE OF STRENGTHS SHOWN HEREON.
3. UNLESS OTHERWISE APPROVED, ALL WATER MAINS SHALL BE PLACED A MINIMUM DEPTH OF 3'-6' BELOW TOP OF PROPOSED STREET CURBS, OR 36" OF COVER ABOVE PIPE NOT LOCATED IN STREET RIGHT OF WAY.

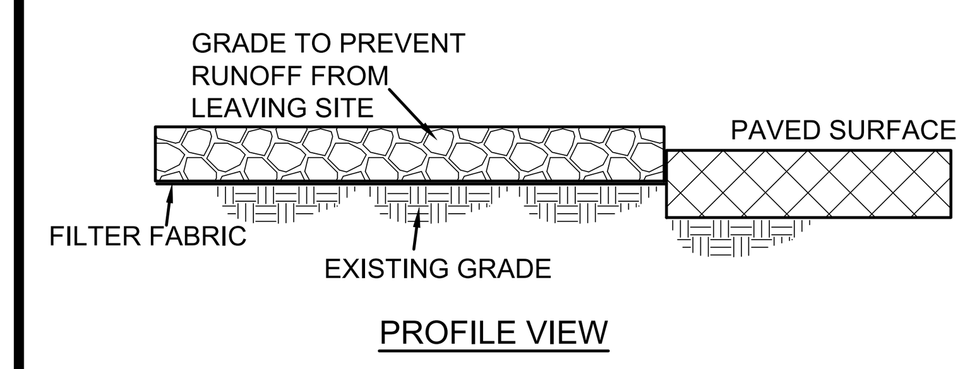
WATER LINE TIE-IN
N.T.S.



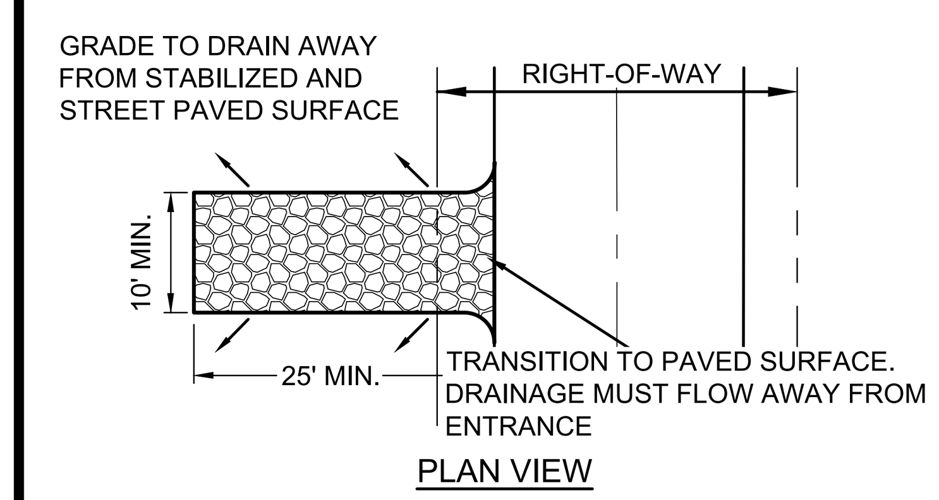
BLOCKING FOR TEE
SPECIAL BLOCKING FOR TEE w/PLUG (WHEN DIRECTED BY ENGINEER)
TYP. SECTION OF CROSS, 2 PLUGS & BLOCKING (WHEN DIRECTED BY ENGINEER)
TYP. SECTION OF CROSS & BLOCKING (WHEN DIRECTED BY ENGINEER)
GROUND SURFACE
REINFORCING BARS
GROUND SURFACE
36"
TYP. BLOCKING FOR VERTICAL BENDS
REINFORCING BARS
THRUST SUPPORT FOR REDUCER (SIZE TO BE DETERMINED BY ENGINEER)
TYP. BLOCKING FOR HORIZONTAL BEND

NOTES:
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A KICKER BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO STATIC PRESSURE +50% THRUST = 2 AP SIN 1/2O WHERE A=AREA OF PIPE, P=WATER PRESSURE.
4. WHERE BLOCKING OVER PLUG, PLUG SHOULD BE COVERED WITH PAPER TO PREVENT BINDING OF CONCRETE.
5. WHERE SHEAR BECOMES A PROBLEM, PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTION.
7. CLEARANCE ON PIPES BELONGING TO OIL & GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.
8. PROVIDE MINIMUM BEARING AREA IN S.E. AS FOLLOWS BASED ON 150 PSI TEST PRESSURE AND 2000 PSF 50:1 BEARING.

THRUST BLOCKING DETAILS
N.T.S.



PROFILE VIEW

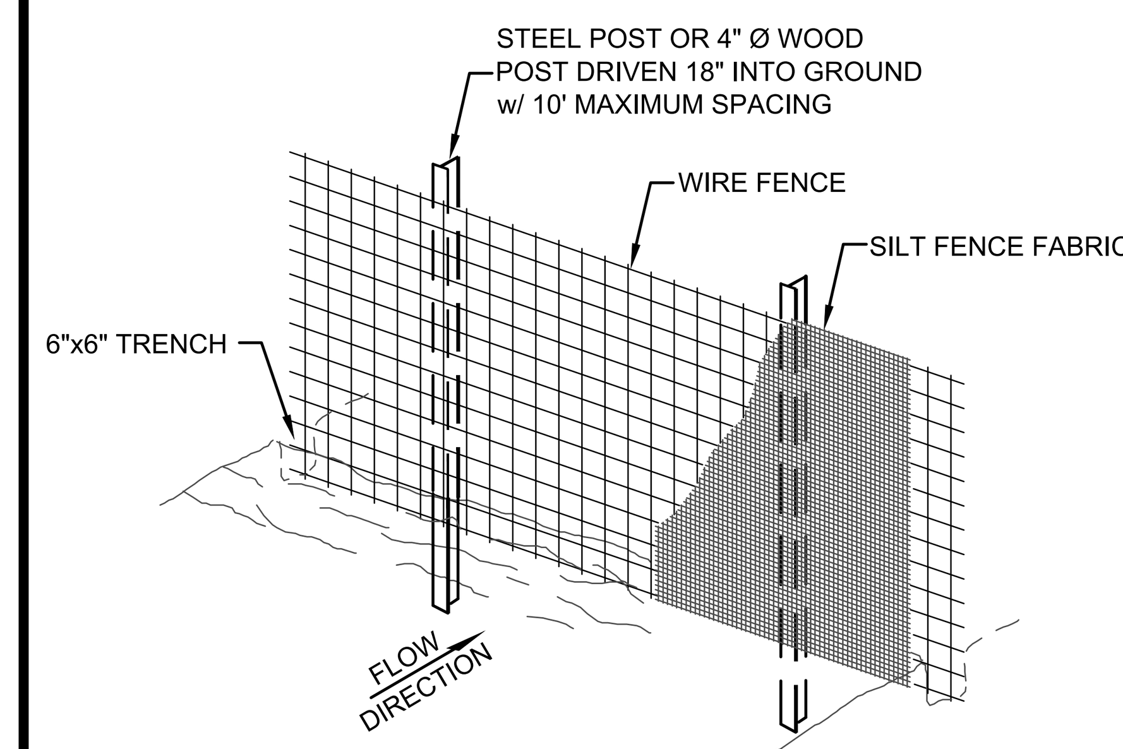


PLAN VIEW

CONSTRUCTION ENTRANCE NOTES:

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 STONE AS 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.



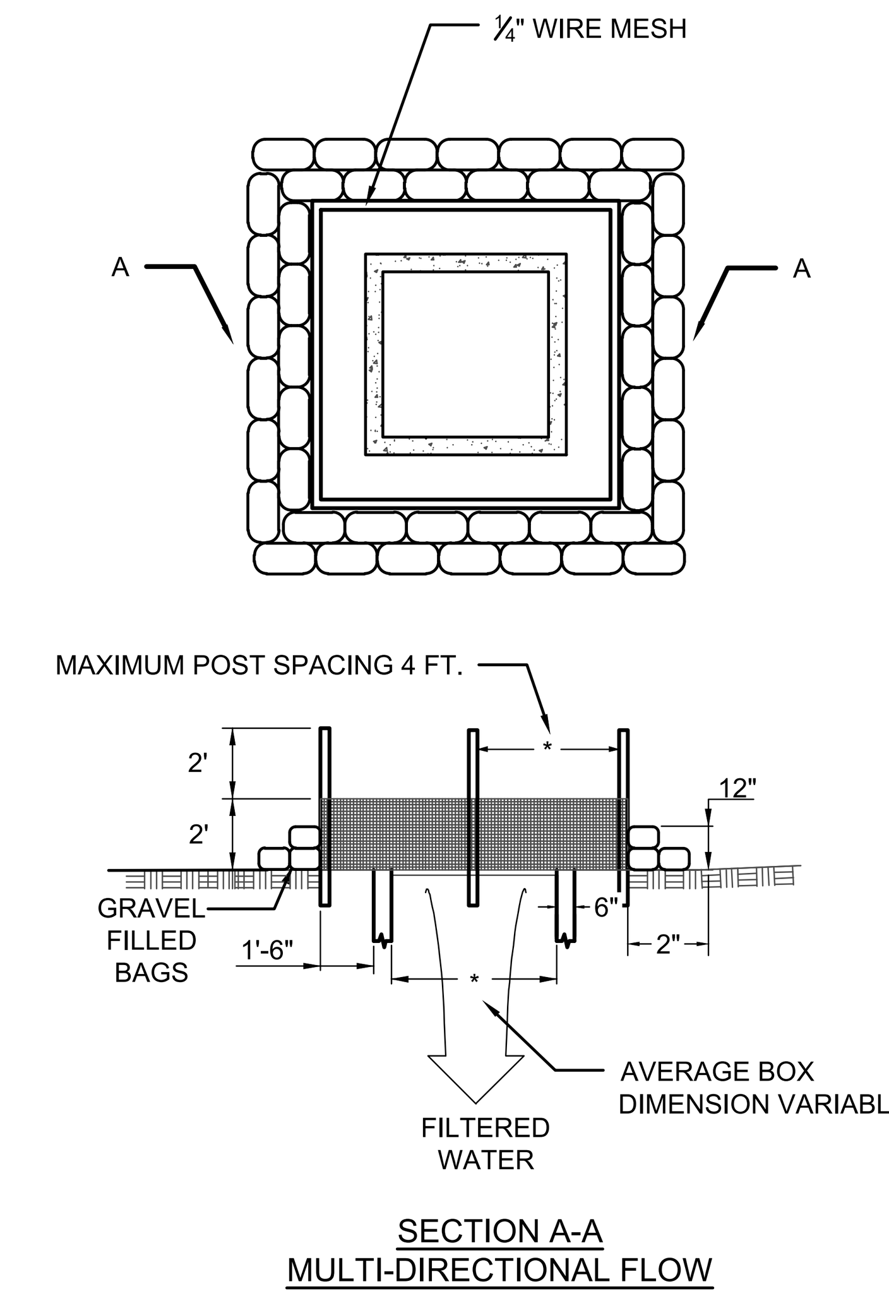
STEPS FOR CONSTRUCTION:

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.

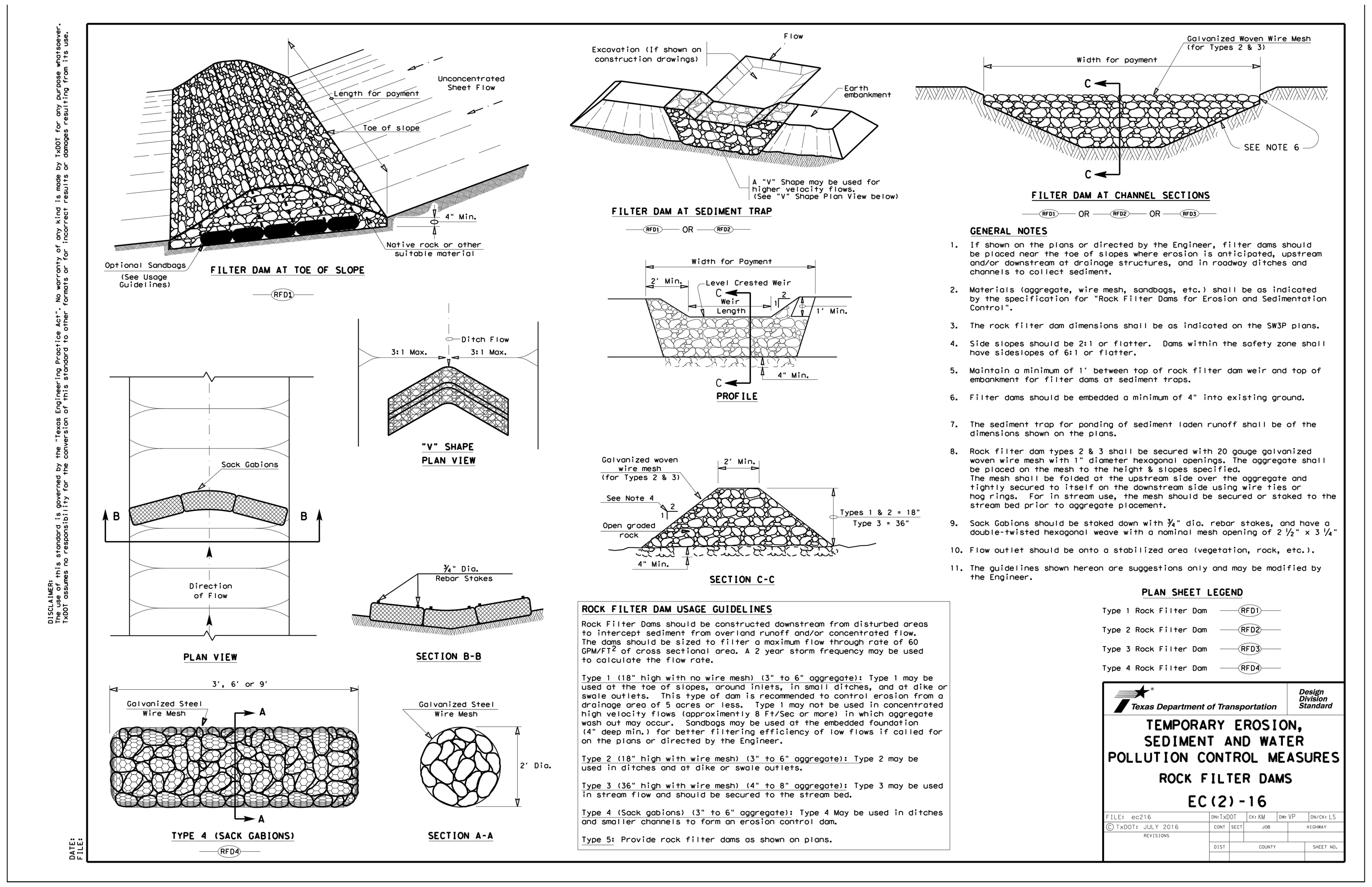
SILT FENCE DETAIL
N.T.S.



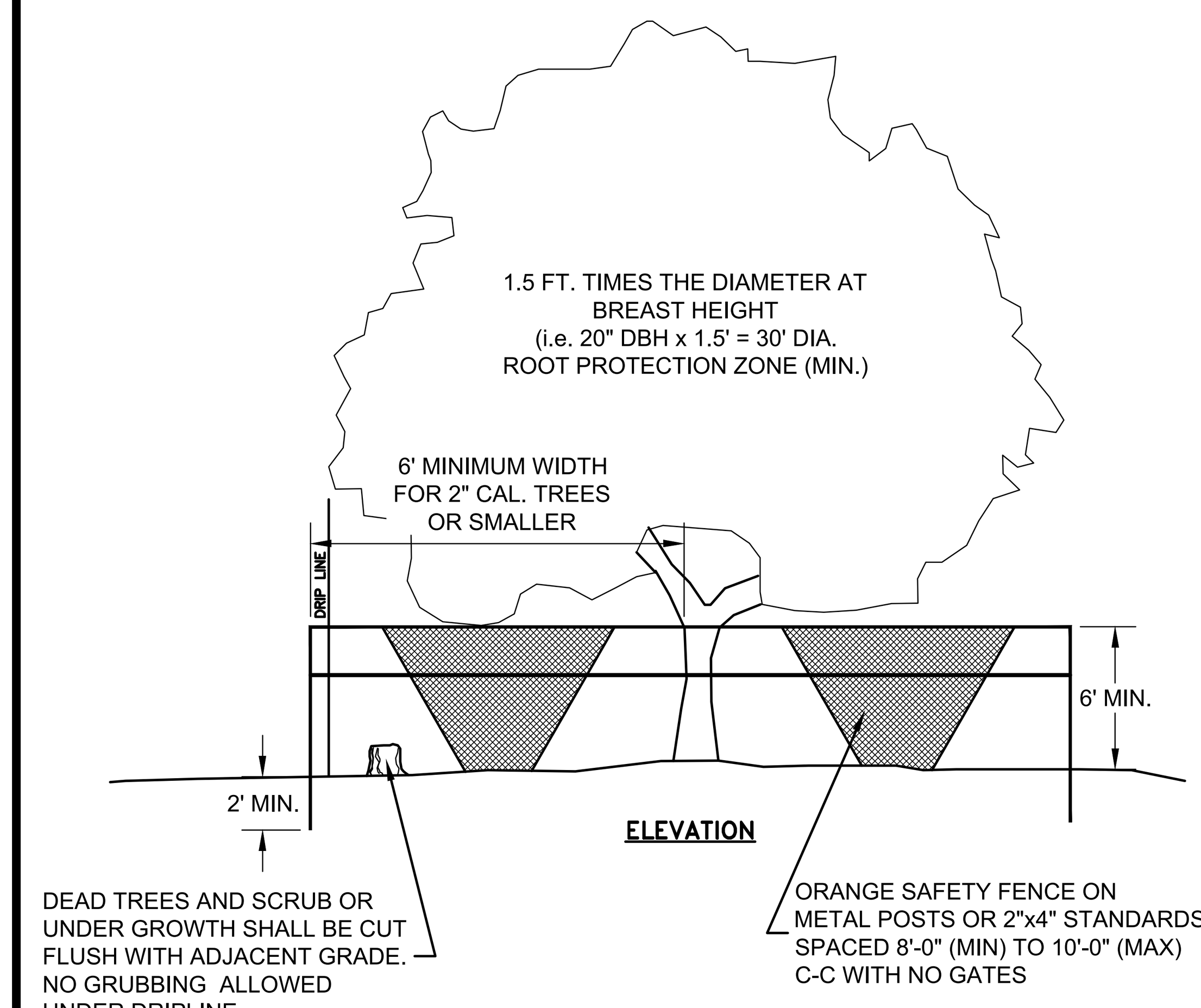
SECTION A-A
MULTI-DIRECTIONAL FLOW

1. SEDIMENT CONTROL STONE SHALL BE NO 5 OR 57.
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE ¼ INCH MESH OPENINGS.
3. TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
4. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
5. WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
6. POST SPACING SHALL BE A MAXIMUM OF 4 FT.

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



FILTER DAM AT TOE OF SLOPE
FILTER DAM AT SEDIMENT TRAP
FILTER DAM AT CHANNEL SECTIONS
GENERAL NOTES
PROFILE
SECTION C-C
"V" SHAPE PLAN VIEW
PLAN VIEW
SECTION B-B
TYPE 4 (SACK GABIONS)
SECTION A-A
ROCK FILTER DAM USAGE GUIDELINES
PLAN SHEET LEGEND
Texas Department of Transportation
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
ROCK FILTER DAMS
EC (2) - 16

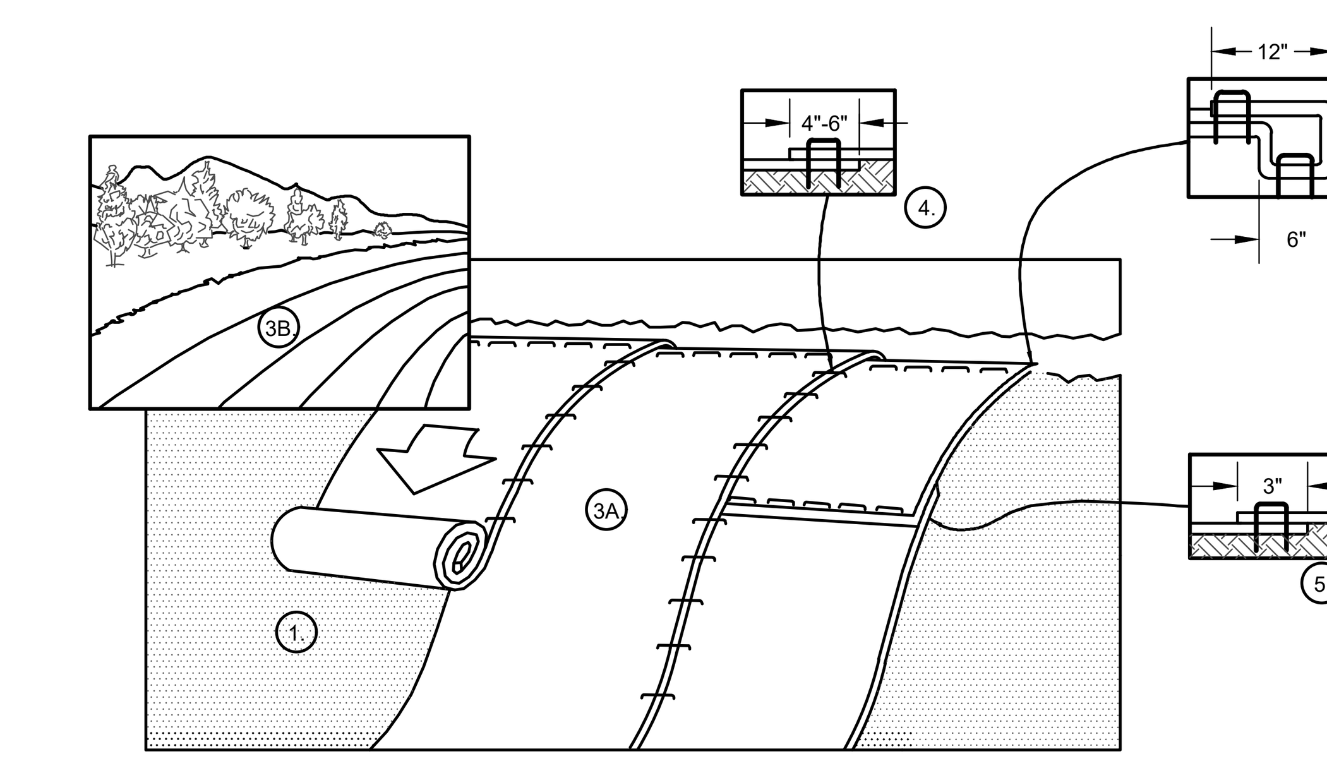


1.5 FT. TIMES THE DIAMETER AT BREAST HEIGHT (i.e. 20" DBH x 1.5' = 30' DIA. ROOT PROTECTION ZONE (MIN.)
6' MINIMUM WIDTH FOR 2" CAL. TREES OR SMALLER
DRIP LINE
6' MIN.
2' MIN.
ELEVATION
DEAD TREES AND SCRUB OR UNDER GROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. NO GRUBBING ALLOWED UNDER DRIPLINE
ORANGE SAFETY FENCE ON METAL POSTS OR 2"x4" STANDARDS SPACED 8'-0" (MIN) TO 10'-0" (MAX) C-C WITH NO GATES

NOTES:

1. TREE PROTECTION SHALL BE A MINIMUM OF 6'-0" HIGH ORANGE SAFETY FENCE 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.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH
4. APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
6. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3"OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12"APART ACROSS ENTIRE BLANKET WIDTH.
7. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
8. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
9. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

NOTE: THIS IS AN ALTERNATE TO SOD ON ALL SLOPES STEEPER THAN 4:1

EROSION CONTROL BLANKET
N.T.S.

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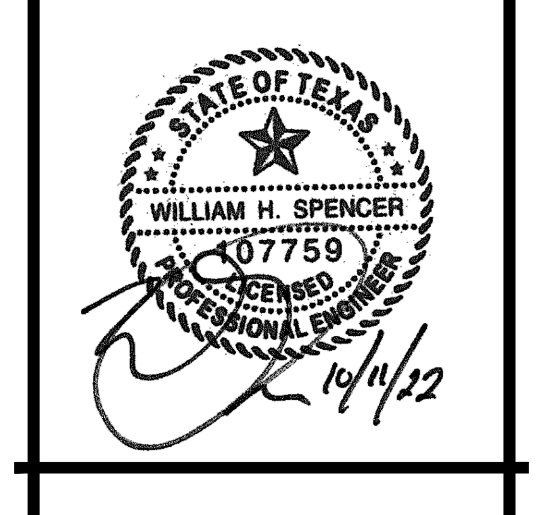
REVISIONS:



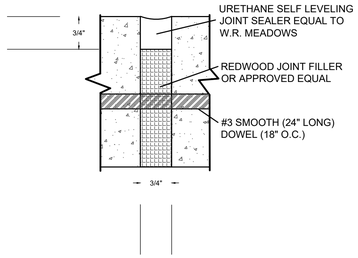
MHS
PLANNING & DESIGN, LLC
212 West Ninth Street Tyler, Texas 75701
903-597-6606 TBPE No. 14571

CONSTRUCTION DETAILS I

P.T. COLE PARK
CITY OF TYLER, TEXAS

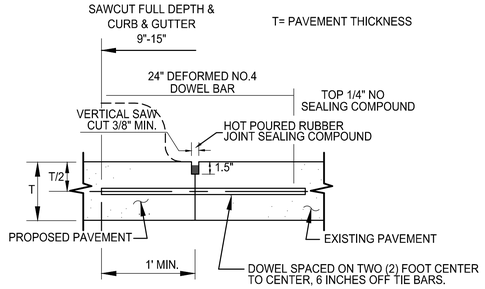
DRAWN:	JHD
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C14



SECTION VIEW

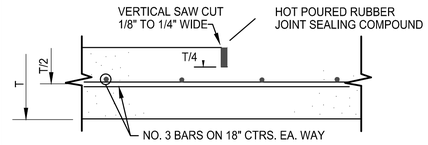
EXPANSION JOINT DETAIL
N.T.S.



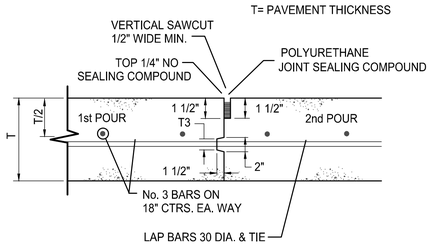
NOTE:
DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

LONGITUDINAL BUTT JOINT
N.T.S.

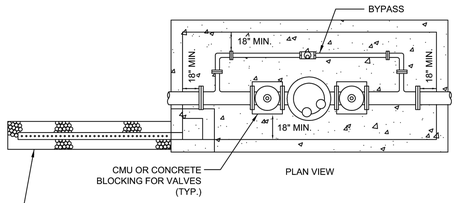
NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG AND COATED IN EPOXY RESIN. DRILL HOLES SHALL BE 3/4" AND BLOWN CLEAN.
4. DRILLED BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

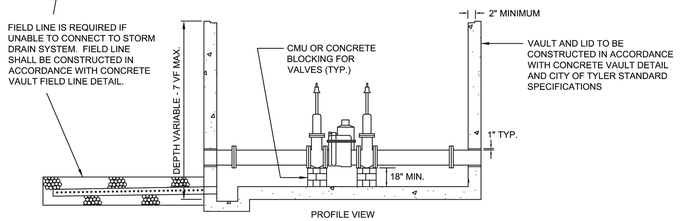


SAWED DUMMY (CONTROL) JOINT
N.T.S. MAXIMUM SPACING IS 15' CTRS. (TYP.)

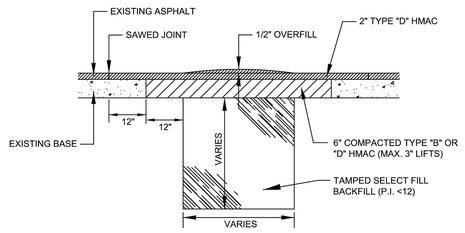


CONSTRUCTION JOINT
N.T.S.



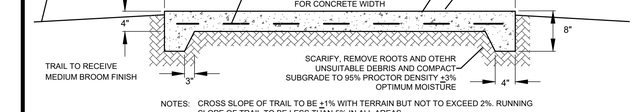


CITY OF TYLER STANDARD DETAIL	3" AND LARGER COMPOUND WATER METER	APPROVED: UTILITIES ENGINEER REVISION DATE: 8/2/11



NOTES:
1. THAT PORTION OF BACKFILL WHICH WILL NOT SUPPORT ANY PORTION OF COMPLETED ROADBED OR EMBANKMENT SHALL BE PLACED IN LAYERS NOT MORE THAN 10 INCHES IN DEPTH (LOOSE MEASUREMENT). THAT PORTION OF THE BACKFILL WHICH WILL SUPPORT ANY PORTION OF THE ROADBED OR EMBANKMENT SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 6 INCHES IN DEPTH (LOOSE MEASUREMENT). EACH LAYER OF BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH CITY OF TYLER SPECIFICATIONS.
2. BACKFILL MATERIAL SHALL NOT HAVE A P.I. GREATER THAN 12.
3. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL SHALL BE AS SPECIFIED.
4. PAVEMENT REPLACEMENT SHALL BE PAID FOR BY THE SQUARE YARD BID. THIS SHALL BE THE COMPLETE PAYMENT FOR TAMPING THE BACKFILL, INSTALLATION OF ASPHALT OR CONCRETE, FURNISHING THE MATERIALS, EQUIPMENT AND LABOR AND REPLACING THE PAVEMENT. THE MEASUREMENT FOR PAVEMENT REPAIR SHALL BE THE LENGTH OF THE PATCH BY EITHER THE ACTUAL WIDTH OF THE TRENCH OR THE OUTSIDE DIAMETER OF THE PIPE PLUS 2', WHICHEVER IS THE LEAST.
5. NO SEPARATE PAY ITEM WILL BE CONSIDERED FOR PAVEMENT REPAIR OF OILED SURFACE, GRAVEL, CLAY OR NATIVE SOIL. THE COST OF PAVEMENT REPAIR FOR THESE SURFACES SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR PIPE AND/OR APPURTENANCES AND THIS WILL BE THE COMPLETE PAYMENT FOR SUCH PAVEMENT REPAIR, INCLUDING EROSION CONTROL, SEEDING, SODDING AND MAINTAINING.

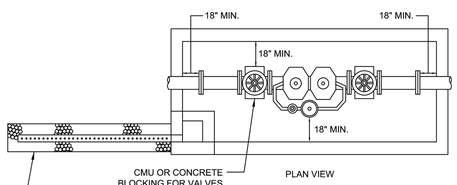
CITY OF TYLER STANDARD DETAIL	PAVEMENT REPAIR	APPROVED: UTILITIES ENGINEER REVISION DATE: 8/2/11

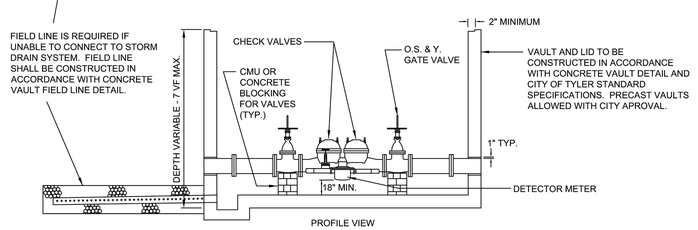


NOTES: CROSS SLOPE OF TRAIL TO BE ±1% WITH TERRAIN BUT NOT TO EXCEED 2%. RUNNING SLOPE OF TRAIL TO BE LESS THAN 5% IN ALL AREAS.

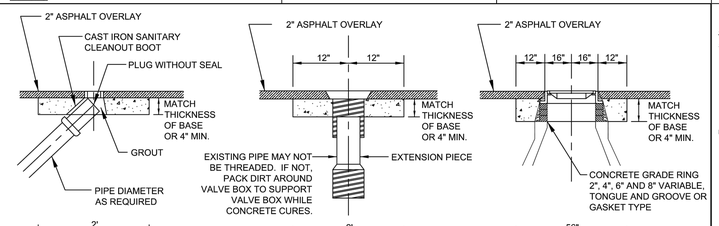
ALTER TRAIL SECTION ELEVATION TO ALLOW CROSS DRAINAGE AS INSTRUCTED BY THE CONSULTANT.

4" CONCRETE DETAIL
N.T.S.





CITY OF TYLER STANDARD DETAIL	DOUBLE CHECK DETECTOR ASSEMBLY	APPROVED: UTILITIES ENGINEER REVISION DATE: 8/2/11



NOTES:
1. CONCRETE PAD FOR CLEANOUT AND WATER VALVE ARE TO BE USED OUTSIDE PAVEMENT, AS WELL AS UNDER PAVEMENT. FOR LOCATIONS OUTSIDE OF PAVEMENT, CONCRETE PAD SHALL BE 4" THICK AND THE TOP SHALL BE FLUSH WITH FINISHED GRADE.
2. RISER RINGS SHALL NOT BE ALLOWED WHEN RAISING MANHOLES OR WATER VALVES.

CITY OF TYLER STANDARD DETAIL	ADJUSTMENTS TO FINISHED GRADE	APPROVED: UTILITIES ENGINEER REVISION DATE: 5/23/13

SOILS:	TESTING REQUIREMENTS	SOILS:	TESTING REQUIREMENTS
SUBGRADE:	* PROOF ROLL AND REPAIR AS NEEDED	TREATED SUBGRADE (CONT'D):	* PULVERIZATION CHECKS (100% PASSING 1-1/2" SIEVE, 85% PASSING 3/4" AND 60% PASSING NO. 4 SIEVE) EVERY 10,000 SQUARE FEET (MINIMUM ONE PER DAY PER SOIL TYPE)
	* COMPACT TO 95% D698 AT ±2% MOISTURE		* TREATED THICKNESS CHECKS EVERY 10,0000 SQUARE FEET
	* PROCTORS AS NEEDED		
	1 DENSITY EVERY 10,000 SQUARE FEET	BASE:	* COMPACT TO 95% D1557 AT ±2% MOISTURE
			* TXDOT TYPE A, GRADE 2 BASE (OR AS RECOMMENDED BY DESIGN)
FILL:	* PROOF ROLL AND REPAIR AS NEEDED		* 1 DENSITY EVERY 10,000 SQUARE FEET
	* SELECT FILL (AS RECOMMENDED BY DESIGN)		* THICKNESS CHECKS EVERY 10,0000 SQUARE FEET
	* COMPACT TO 95% D698 AT ±2% MOISTURE (OR AS RECOMMENDED BY DESIGN)		
	* PROCTORS AS NEEDED	ASPHALT:	TESTING IS BASED ON ~ 600 TONS PER DAY OF PLACEMENT (I.E. 1 LOT = 600 TONS), SMALL DAYS PLACEMENT (UNDER 250 TONS) AS DIRECTED BY CITY OR ENGINEER.
	* 1 DENSITY EVERY 10,000 SQUARE FEET IN THE TOP 2 FEET OF FILL		* TXDOT ITEM 340
	* 1 DENSITY EVERY 20,000 SQUARE FEET IF BELOW TOP 2 FEET OF FILL		* 4 CORES PER DAY MUST BE 92%. QC PERFORMED BY CONTRACTOR. CORES TO BE CUT BY CONTRACTOR AND DELIVERED TO LAB FOR TESTING.
			* 1 EXTRACTION / GRADATION PER DAY (MAY BE PROVIDED BY THE ASPHALT PLANT IF AGREEMENT IS MADE WITH CITY)
UTILITY LINE BACKFILL (NOT SUBJECT TO VEHICULAR TRAFFIC):	* COMPACT TO 95% D698 PER 10" COMPACTED LIFT		* 1 SET OF PATTIES PER DAY (MAY BE PROVIDED BY THE ASPHALT PLANT IF AGREEMENT IS MADE WITH CITY)
			* 1 RICE PER DAY (MAY BE PROVIDED BY THE ASPHALT PLANT IF AGREEMENT IS MADE WITH CITY)
UTILITY LINE BACKFILL (SUBJECT TO VEHICULAR TRAFFIC):	* COMPACT TO 90% D698 PER 6" COMPACTED LIFT		
		CONCRETE:	
RETAINING WALL BACKFILL:	* COMPACT TO 95% D698 AT ±2% MOISTURE (OR AS RECOMMENDED BY DESIGN)	MISC. CONCRETE (SIDEWALKS, CURB AND GUTTER, ETC):	* SLUMP 4" MAXIMUM
			* " AIR 5% ±1%
TREATED SUBGRADE:	* PROOF ROLL AND REPAIR PRIOR TO TREATING		* 1 SET OF 4 CYLINDERS PER DAY'S PRODUCTION (7, 28, 28, SP)
	* COMPACT TO 95% D1557 AT ±2% MOISTURE		
	* PROCTOR SAMPLES AS NEEDED	CONCRETE PAVING:	* SLUMP 4" MAXIMUM
	* 1 DENSITY EVERY 10,000 SQUARE FEET		* " AIR 5% ±1%
			* 1 SET OF 4 CYLINDERS EVERY 150 CUBIC YARDS OR PER DAY'S PRODUCTION (7, 28, 28, SP)

CITY OF TYLER STANDARD DETAIL	TESTING REQUIREMENTS FOR PAVING	APPROVED: UTILITIES ENGINEER REVISION DATE: 11/3/17

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10/11/22

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

CONSTRUCTION DETAILS II

P.T. COLE PARK
CITY OF TYLER, TEXAS

DRAWN: JHD
CHECKED: WHS
DATE: 10/11/2022
SCALE: AS SHOWN
JOB NO.: 22-069

C15

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Goalsetter
Best In Basketball™

INSTALLATION AND OWNER'S INSTRUCTIONS

Signature Series
Internal Jack
Adjustable Height
Goal System

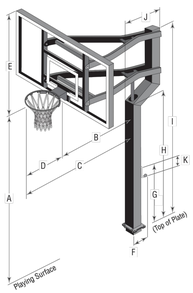
- **MVP**
- **Captain**

888-USA-GOAL
goalsetter.com

TABLE OF CONTENTS

Goal Specifications

	MVP	Captain
Pole Size:	6"x6"	6"x6"
Backboard Size:	42"x72"	38"x60"
Weight w/Acrylic:	525 lbs.	510 lbs.
Weight w/Glass:	585 lbs.	560 lbs.
(A) Height Range:	6'-10'	6'-10'
(B) Extension Distance: at 10'	51"	51"
at 8'	54"	54"
at 6'	48"	48"
(C) Maximum Overhang:	79"	79"
(D) Distance Rim to Backboard:	25"	25"
(E) Distance Rim to Top of Goal:	33 ¾"	29 ¾"
(F) Crank Distance:	11 ½"	11 ½"
(G) Crank Height:	36 ½"	36 ½"
(H) Offset Height:	7'-0"	7'-0"
(I) Pole Height:	10'-5"	10'-5"
(J) Offset Distance:	21"	21"
(K) Crank Turn Radius	8"	8"



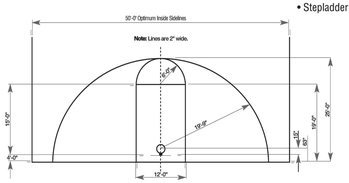
Determine Installation Location

Consider the following to determine where to install your Goalsetter® Basketball Goal:

- When extended, will backboard overhang obstruct driveway or other important space? Maximum overhang: 79" (2 m) from the front of the pole to the front of the rim.
- Is there room so vehicles backing out of driveway do not strike backboard or rim?
- Will court markings be used?
- How much playing surface is needed?
- How much playing surface will be under the backboard? (Having the edge of the playing surface directly underneath the backboard can result in trip hazards and unpredictable ball action following a shot. Try to have as much playing surface as possible behind the backboard.)
- Other functions of playing surface (driveway, playground, etc.)
- Will the goal be at least 20 ft. (7 m) from any overhead power lines? (No overhead power lines should be within a 20 ft. (7 m) radius of the goal.)
- Will the ground anchor for the goal avoid underground power, gas, telephone, water and other utility lines? (See 811 One Call Warning box on page 2 for more information or call your local utility company.)

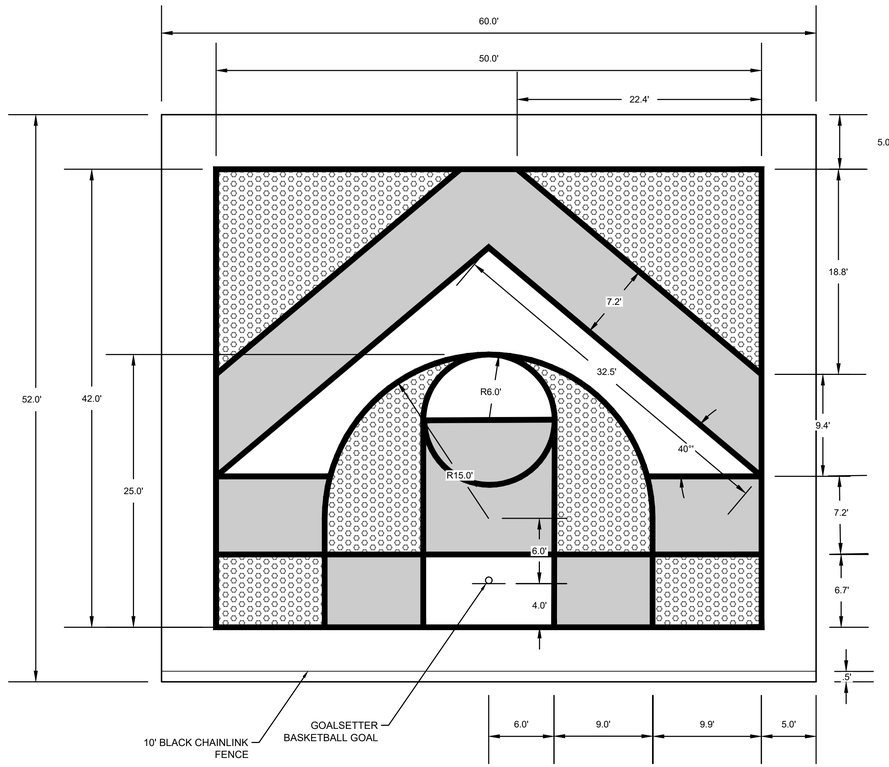
Required Tools and Materials:

- Spade
- Shovel
- Tape Measure
- Level
- Hoe
- Water
- Rubber Mallet
- Steel Punch
- Stepladder
- Wheelbarrow
- Cement Trowel
- Stir Rod
- Auger/Post Hole Digger (optional)
- 10-14, 60 lb Bags of Dry Concrete Mix (or ¼-⅓ yard of ready mix concrete)
- ½" Drive Torque Wrench
- Phillips Screwdriver
- 9/16" & ¾" Wrenches and Sockets



Court Markings
(Reference Only):

Regulation Court Lengths
High School: 84'
College & Professional: 94'



SURFACING COLOR NOTE:

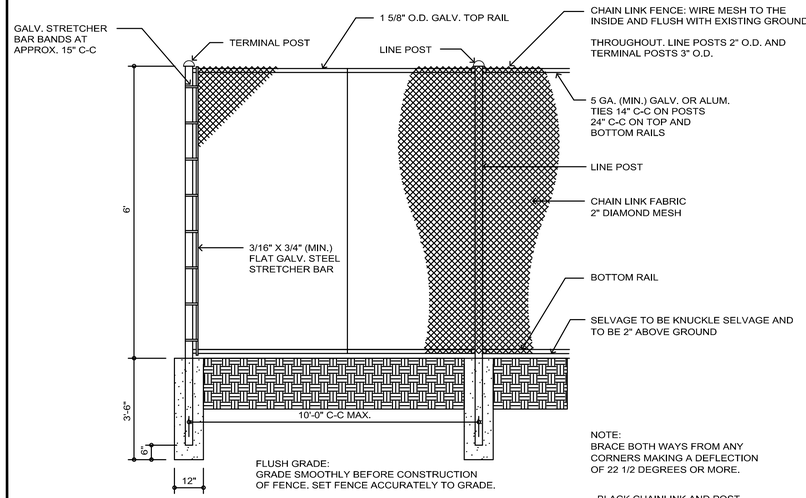
LIGHT BLUE	± 803 SF
PURPLE	± 726 SF
GRAY	± 365 SF
ORANGE (STRIPING)	± 534 LF

NOTE:
SEE SITE PLAN FOR HORIZONTAL CONTROL

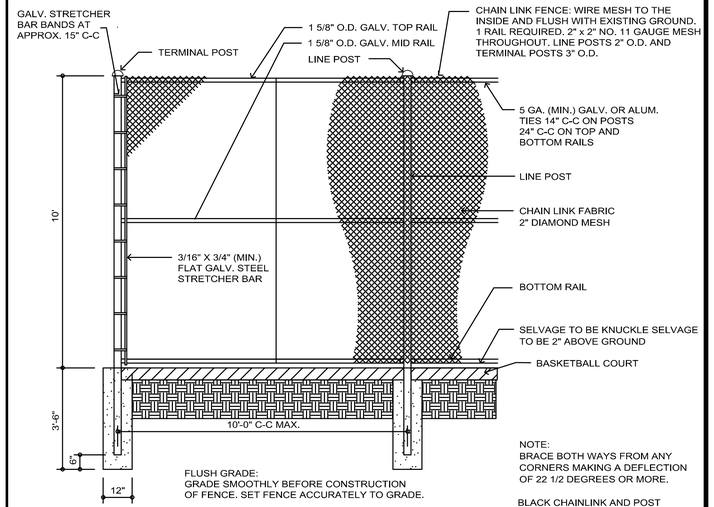
SURFACING AND STRIPING COLORS TO BE SUBMITTED AND APPROVED BY CITY AND CONSULTANT.

SURFACING TO BE PLEXIPAVE - PLEXI STANDARD, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS

HALF COURT STRIPING DETAIL
N.T.S.



TYPICAL TERMINAL SECTION
(6' EQUIPMENT FENCE)
N.T.S.



TYPICAL TERMINAL SECTION
(10'BASKETBALL FENCE)
N.T.S.

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10/11/22

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

CONSTRUCTION DETAILS III

P.T. COLE PARK
CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C16

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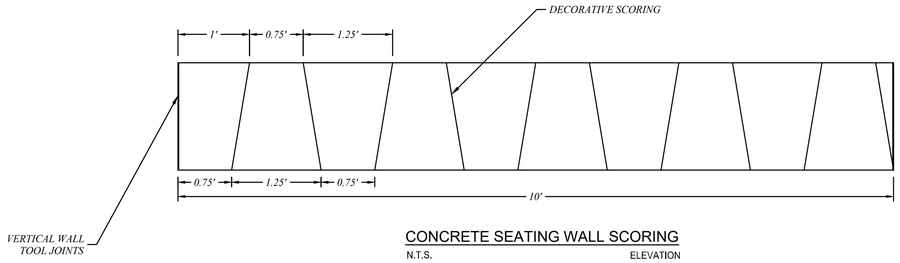
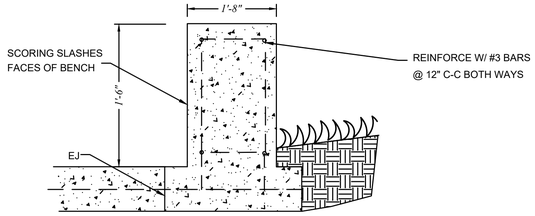


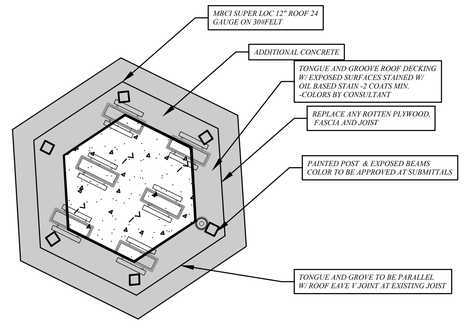
CONCRETE SEATING WALL SCORING

N.T.S. ELEVATION



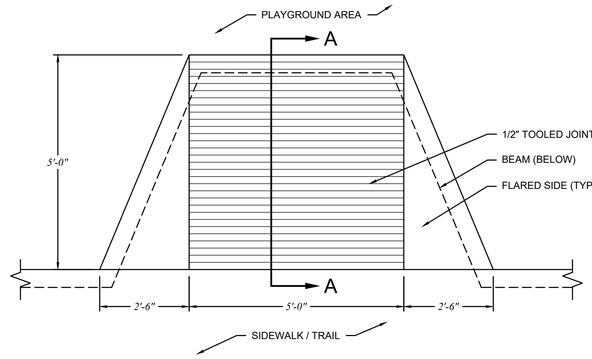
CONCRETE SEATING WALL

N.T.S. CROSS SECTION

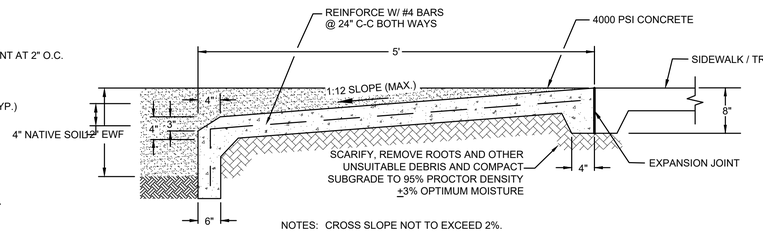


PAVILION PLAN VIEW

N.T.S.



PLAN

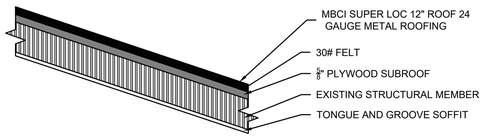


NOTES: CROSS SLOPE NOT TO EXCEED 2%.

SECTION A-A

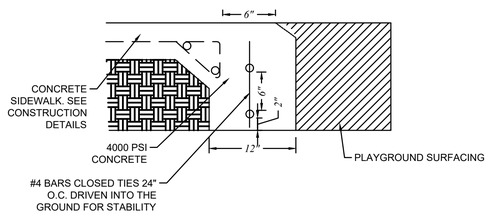
ADA ACCESSIBLE PLAYGROUND RAMP DETAIL

N.T.S.



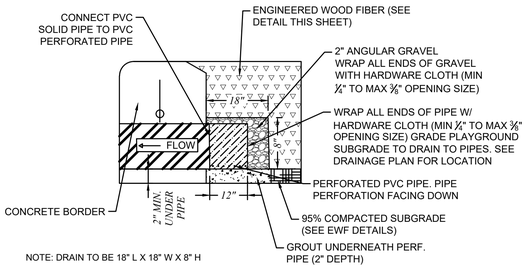
ROOFING DETAIL

N.T.S.



CONCRETE BAND W/ SIDEWALK

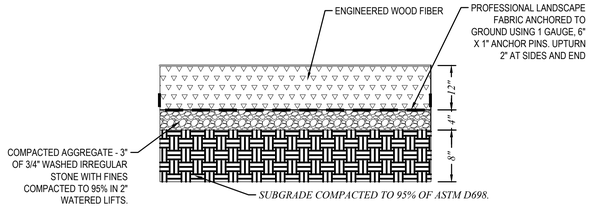
N.T.S.



NOTE: DRAIN TO BE 18" L X 18" W X 8" H

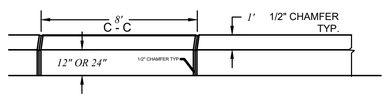
PLAYGROUND DRAIN DETAIL (ENGINEERED WOOD FIBER)

N.T.S.



ENGINEERED WOOD FIBER DETAIL

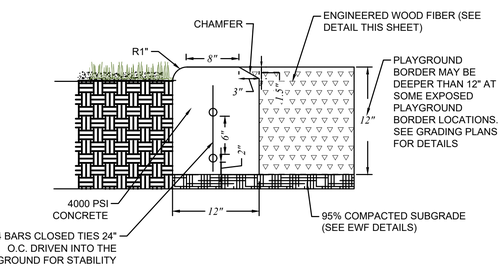
NOT TO SCALE



CONCRETE BAND DETAIL

N.T.S.

NOTE: CHAMFER ON TOP & OUTSIDE ONLY



12" CONCRETE BAND DETAIL (ENGINEERED WOOD FIBER)

N.T.S.

REVISIONS:

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
10/11/22

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

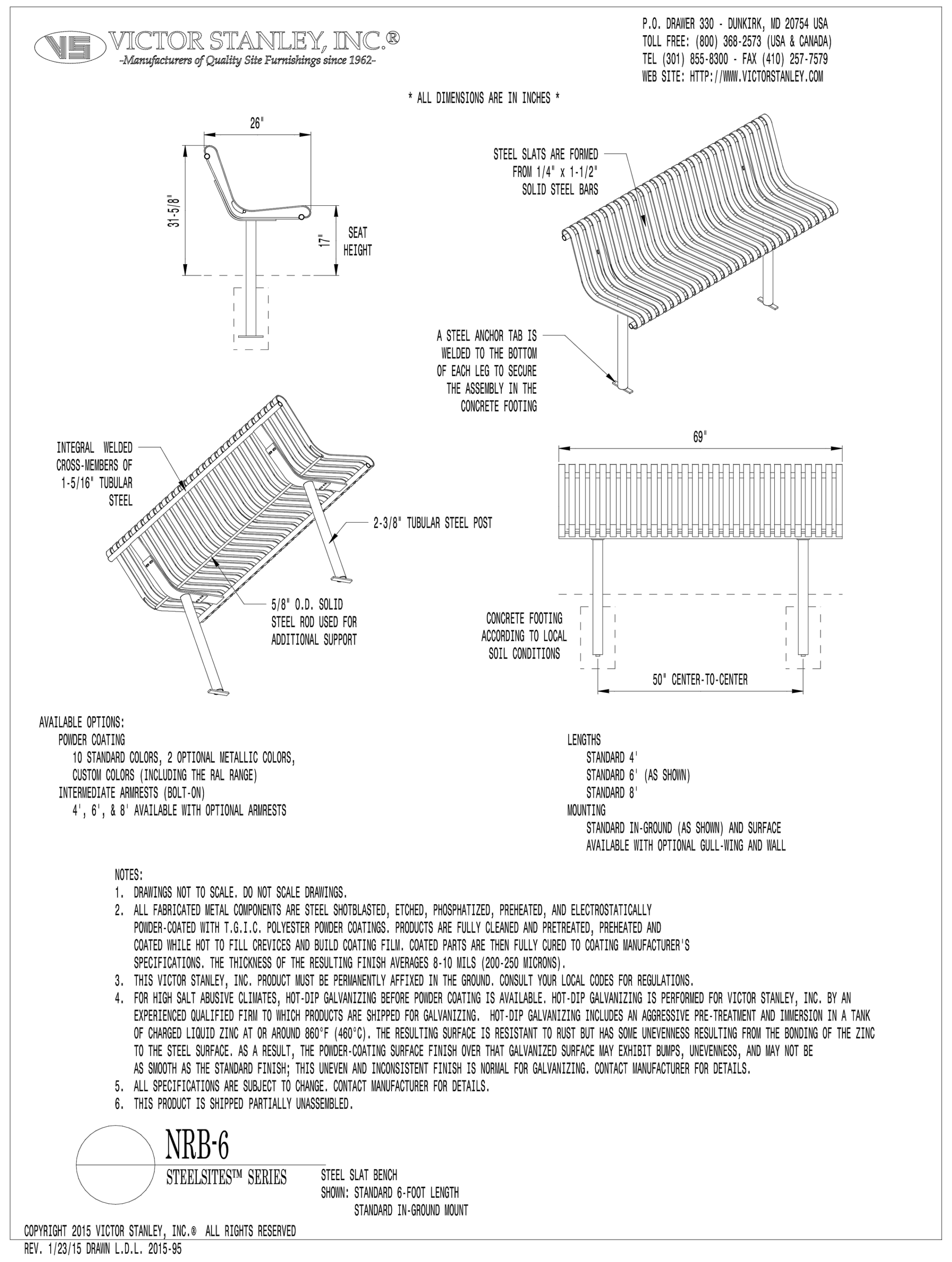
CONSTRUCTION DETAILS IV

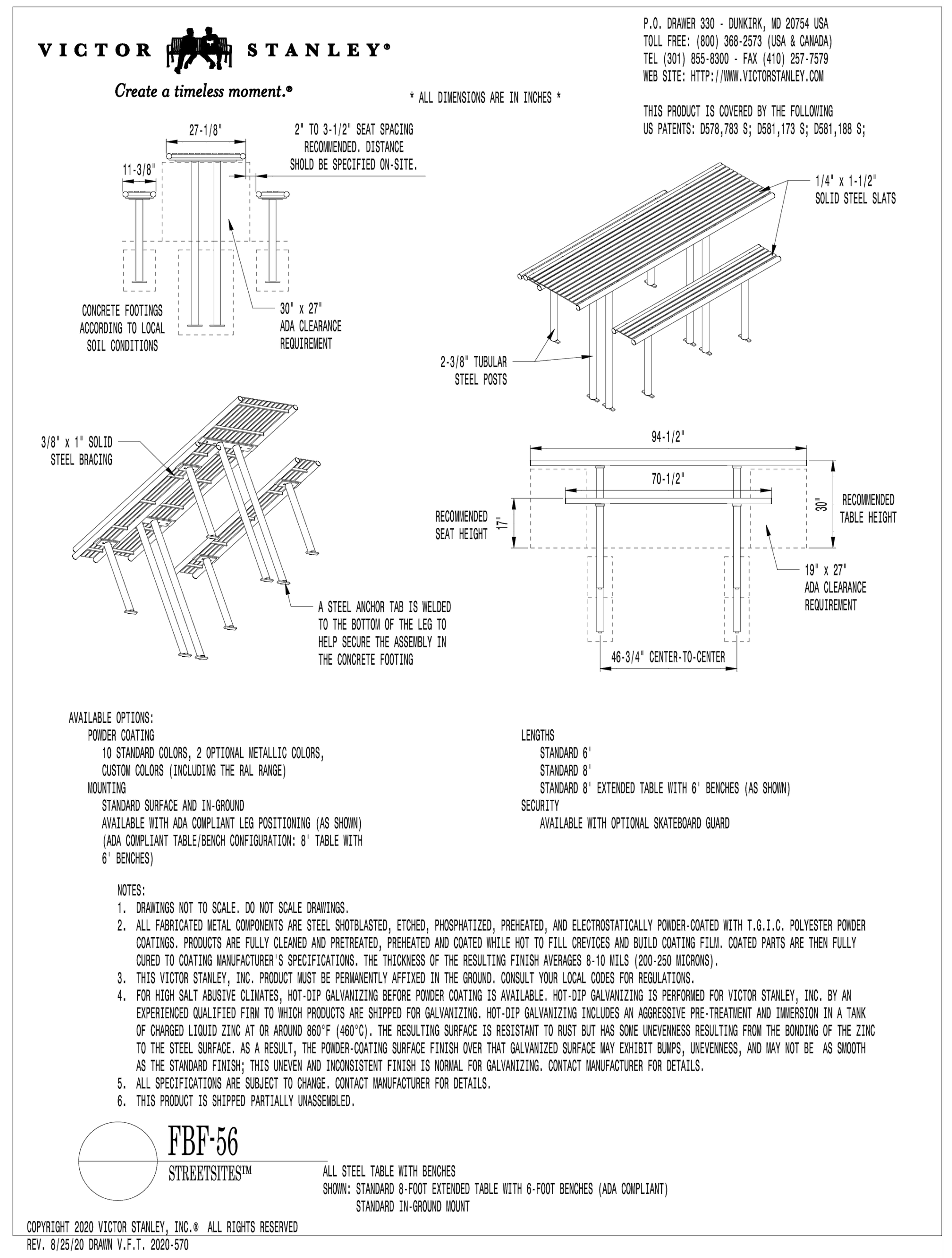
P.T. COLE PARK

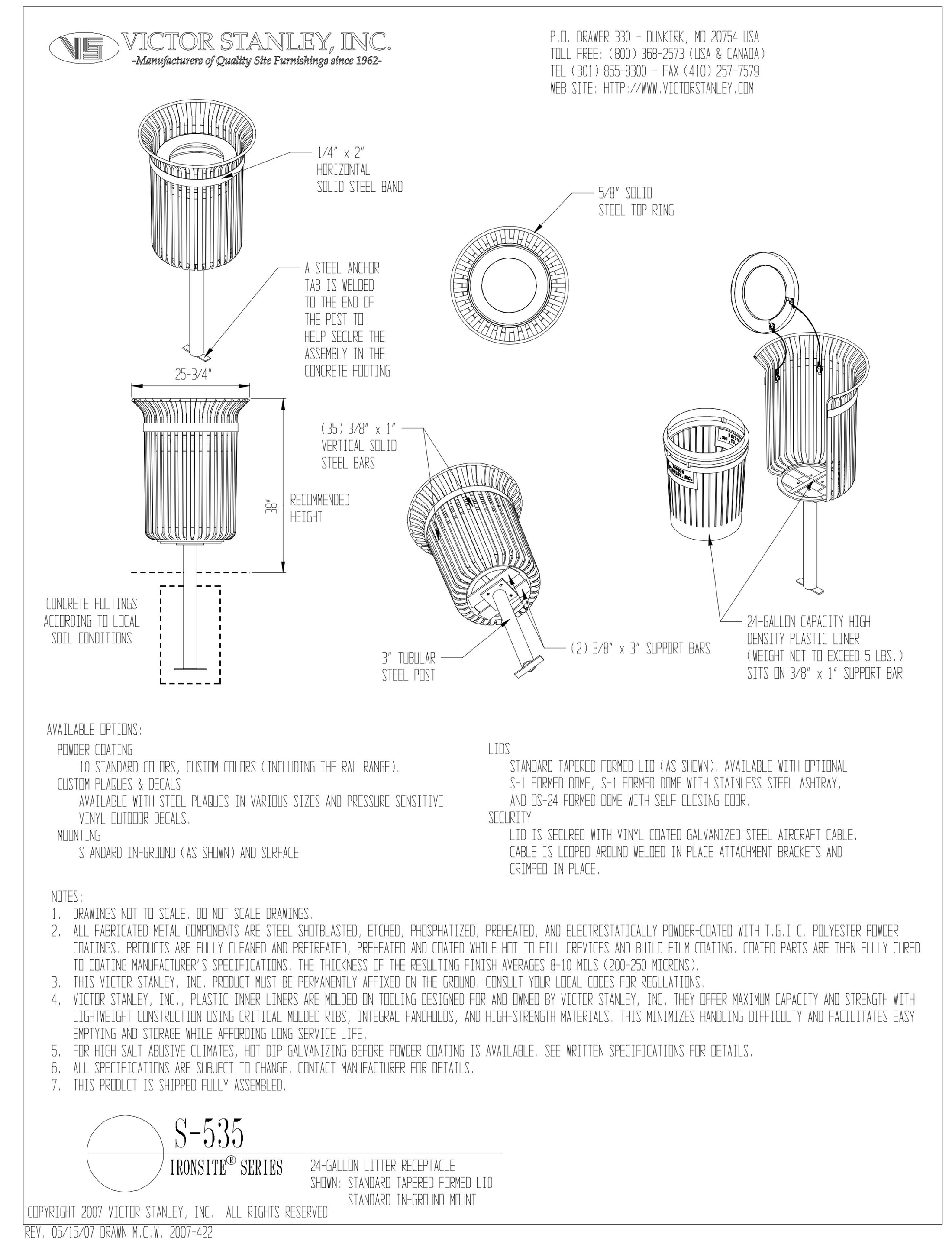
CITY OF TYLER, TEXAS

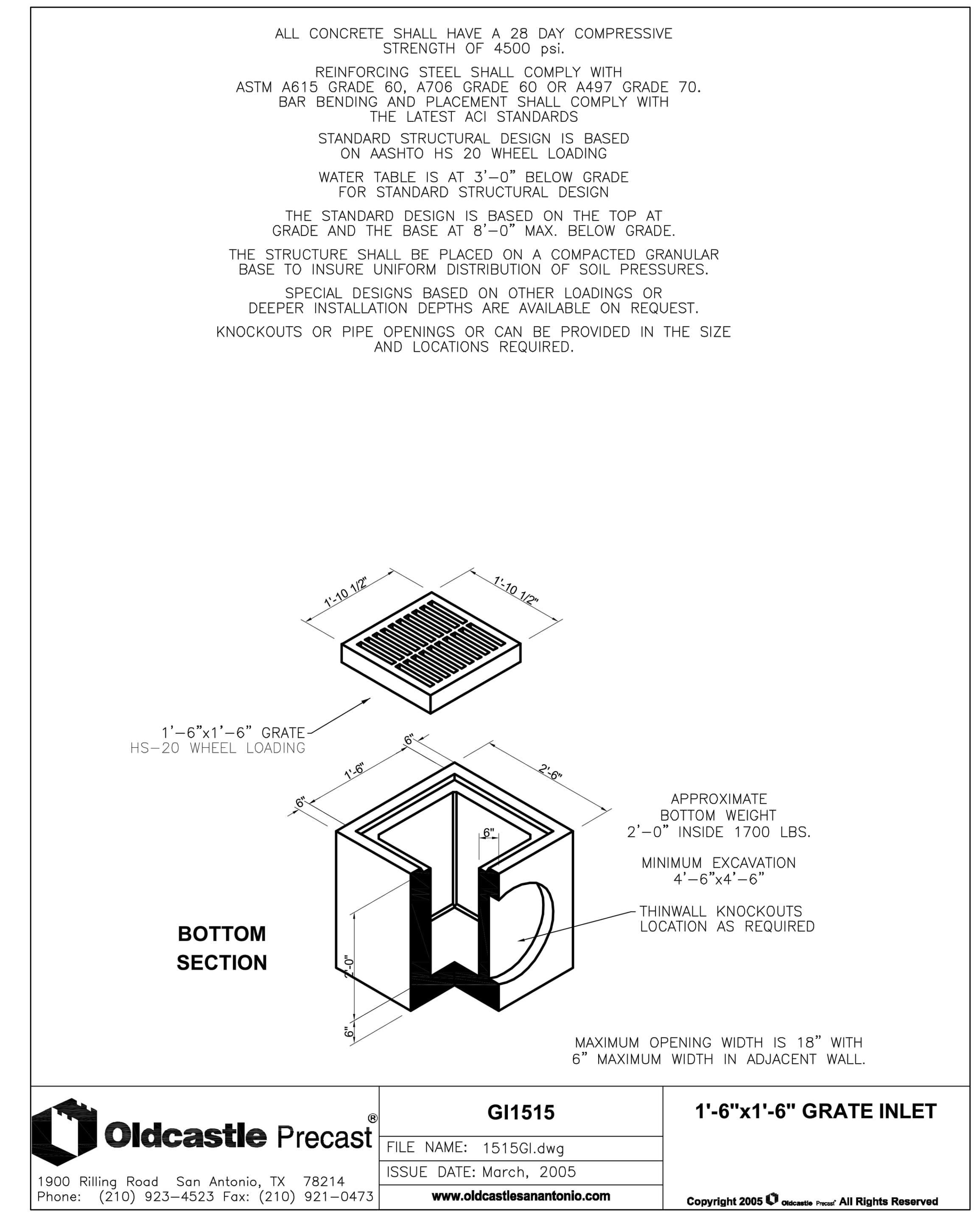
DRAWN:	JHD
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

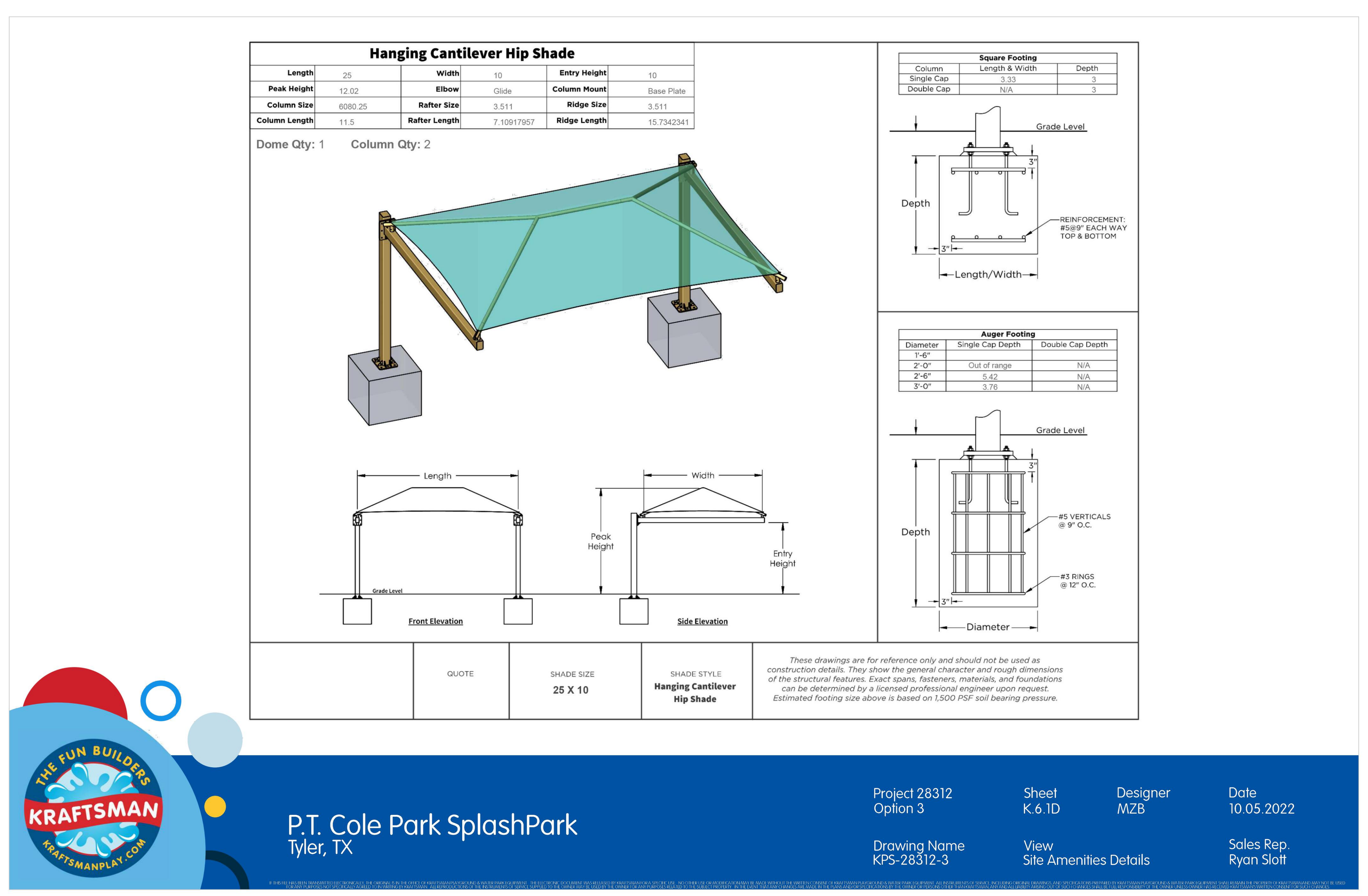
C17



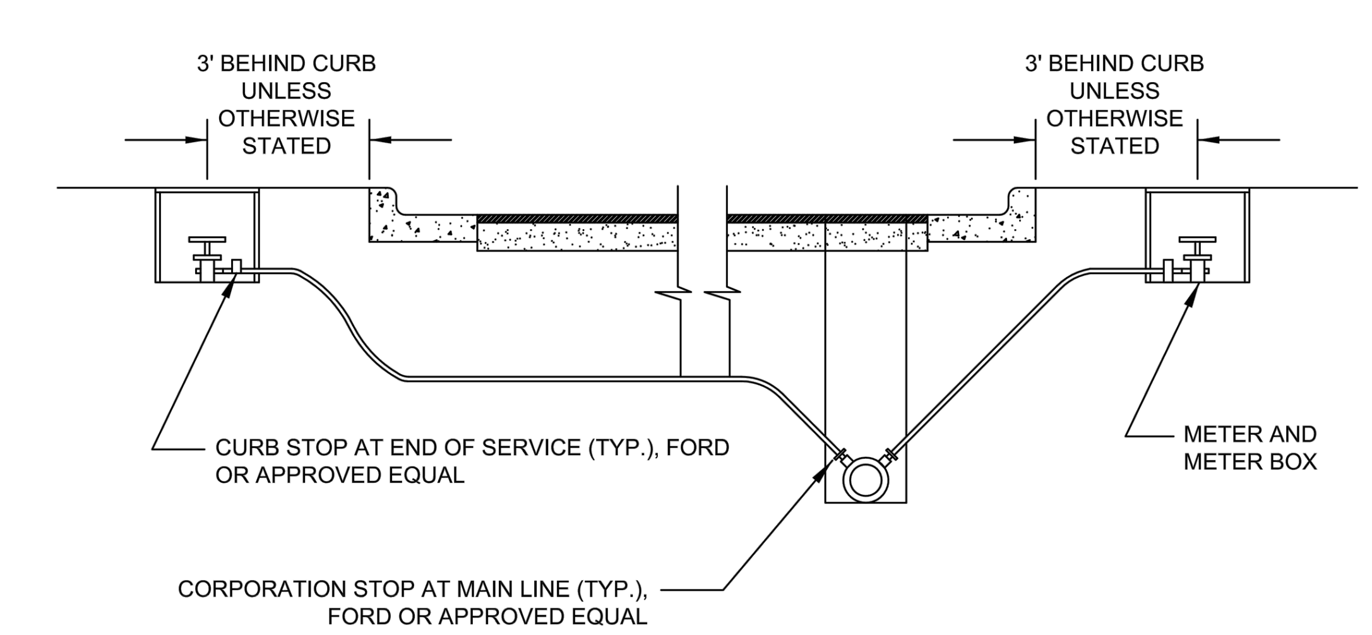








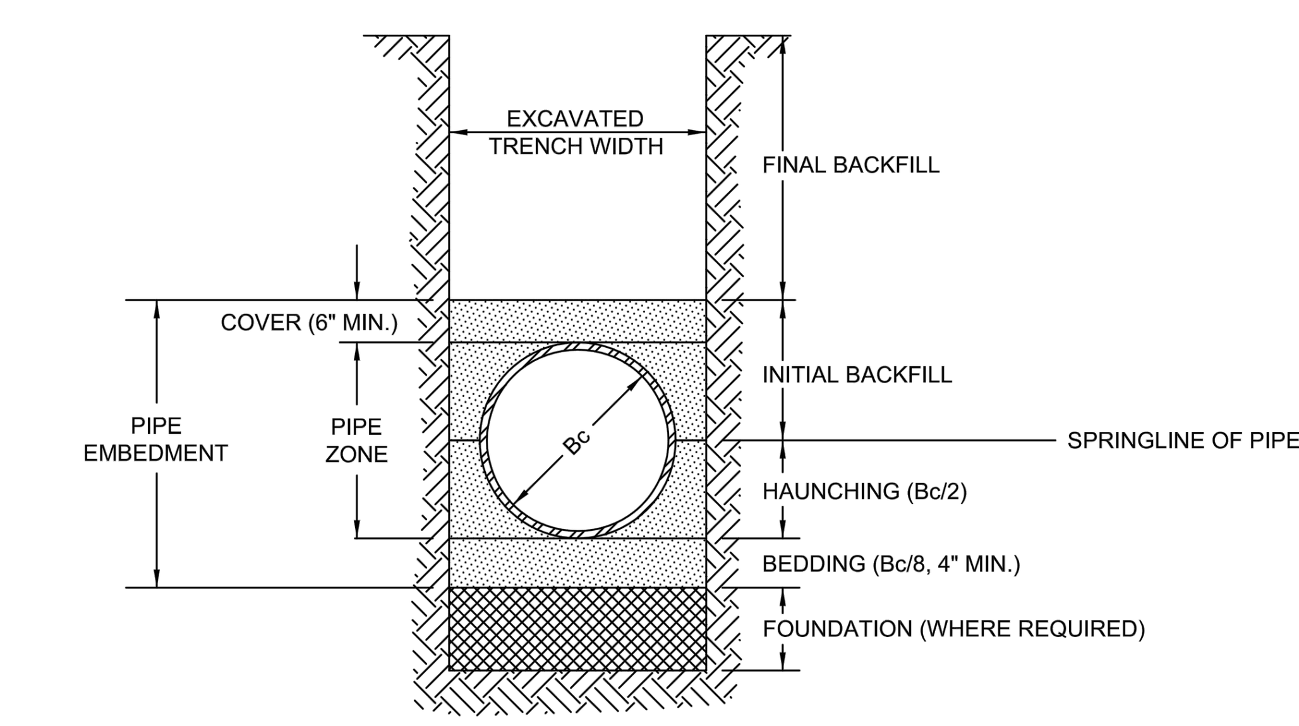
SHADE STRUCTURE (ADD ALTERNATE)



NOTES:

1. TYPE K PIPE TO BE HELD LOW TO BEYOND PROPOSED CURB WITH A GRADUAL BEND TO WITHIN 12" OF FINISHED GRADE.
2. EACH SERVICE LINE SHALL BE PERMANENTLY MARKED WITH A "W" ON THE CURB WHERE THE SERVICE LINE CROSSES THE CURB.
3. METER STOPS TO REMAIN UNCOVERED UNTIL GPS COORDINATES ARE OBTAINED FOR END OF SERVICE.
4. T-POST, PLASTIC PIPE, OR SOME OTHER SEMI-PERMANENT MARKER, PAINTED BLUE, TO BE PLACED AT END OF SERVICE LINE UNTIL METER AND BOX CAN BE INSTALLED.
5. ALL FITTINGS ARE REQUIRED TO BE "NO LEAD".

CITY OF TYLER STANDARD DETAIL	WATER SERVICE INSTALLATION	APPROVED: UTILITIES ENGINEER; REVISION DATE: 11/3/17



NOTES:

1. MATERIAL USED FOR BEDDING, HAUNCHING, INITIAL BACKFILL AND COVER SHALL ALL BE THE SAME MATERIAL AND SHALL BE IN ACCORDANCE WITH EMBEDMENT SPECIFICATION IN THE CITY OF TYLER STANDARD SPECIFICATION FOR PVC WATER OR PVC GRAVITY SEWER PIPE.

CITY OF TYLER STANDARD DETAIL	TRENCH CROSS-SECTION FOR PVC PIPE	APPROVED: UTILITIES ENGINEER; REVISION DATE: 8/2/11

I:\city of tyler\22-069 pt cole (cofl)\CAD\03 - production\CONSTRUCTION DETAILS.dwg

REVISIONS:

STATE OF TEXAS — WILLIAM H. SPENCER — 107759 — LICENSED PROFESSIONAL ENGINEER — 10/11/22

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

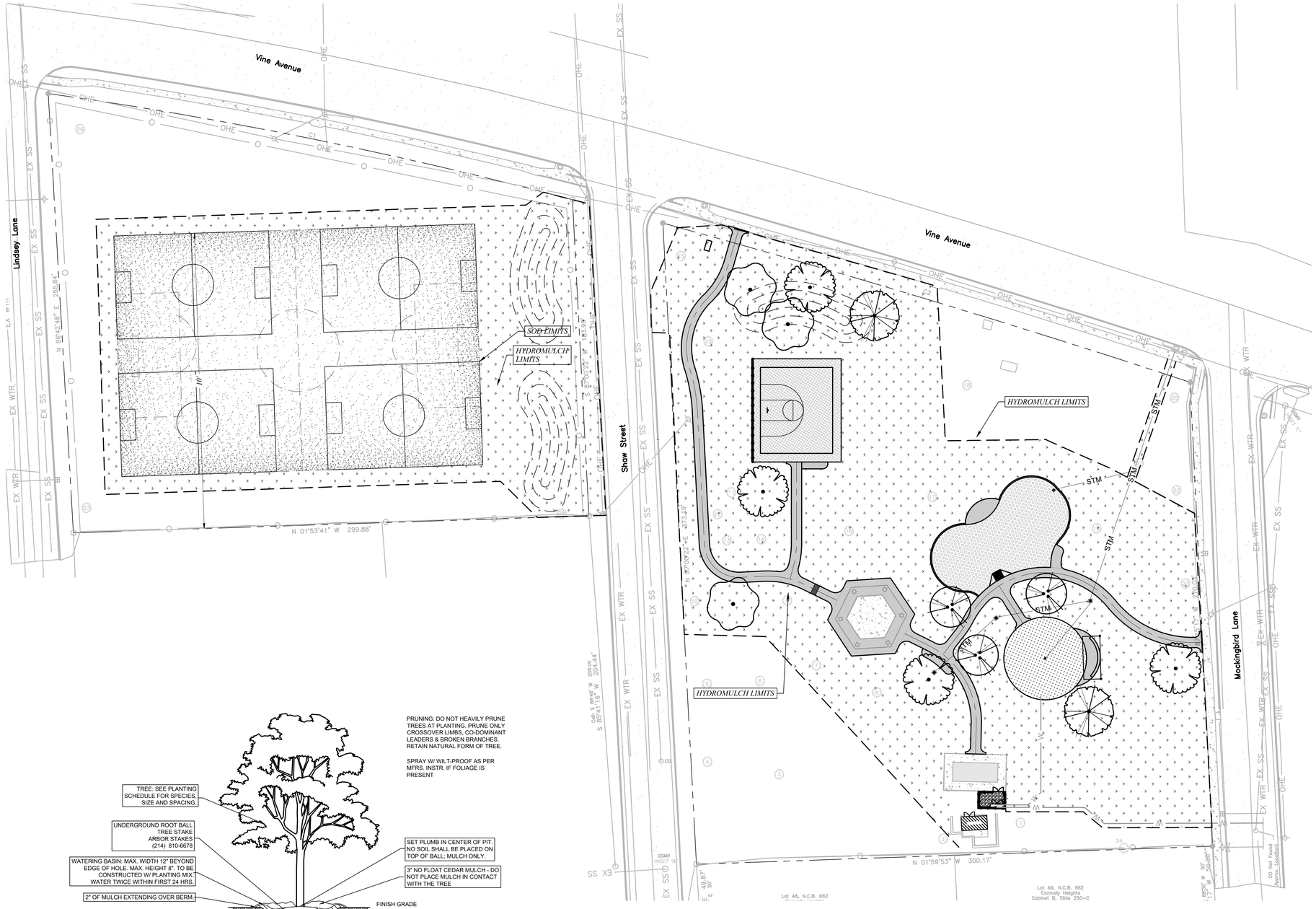
CONSTRUCTION DETAILS V

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

C18



TREE PLANTING DETAIL

N.T.S.

PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	QTY
	Acer rubrum / Red Maple	45 gal.	3
	Nyssa sylvatica / Blackgum	45 gal.	2
	Quercus muehlenbergii / Chinkapin Oak	45 gal.	4
	Ulmus parvifolia / Lacebark Elm	45 gal.	3

TURFGRASS	BOTANICAL / COMMON NAME	CONT	SPACING	QTY
	Cynodon dactylon / Bermuda Grass	Hydromulch		104,401 sf
	Cynodon dactylon x transvaalensis 'DT-1' TM / TifTuf Bermuda Grass	Sod		29,400 sf

Know what's below. Call before you dig.

REVISIONS:

REGISTERED LANDSCAPE ARCHITECT
NICA E. PEREZ
2887
STATE OF TEXAS
10-10-22

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

TREE AND SOD PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

L1

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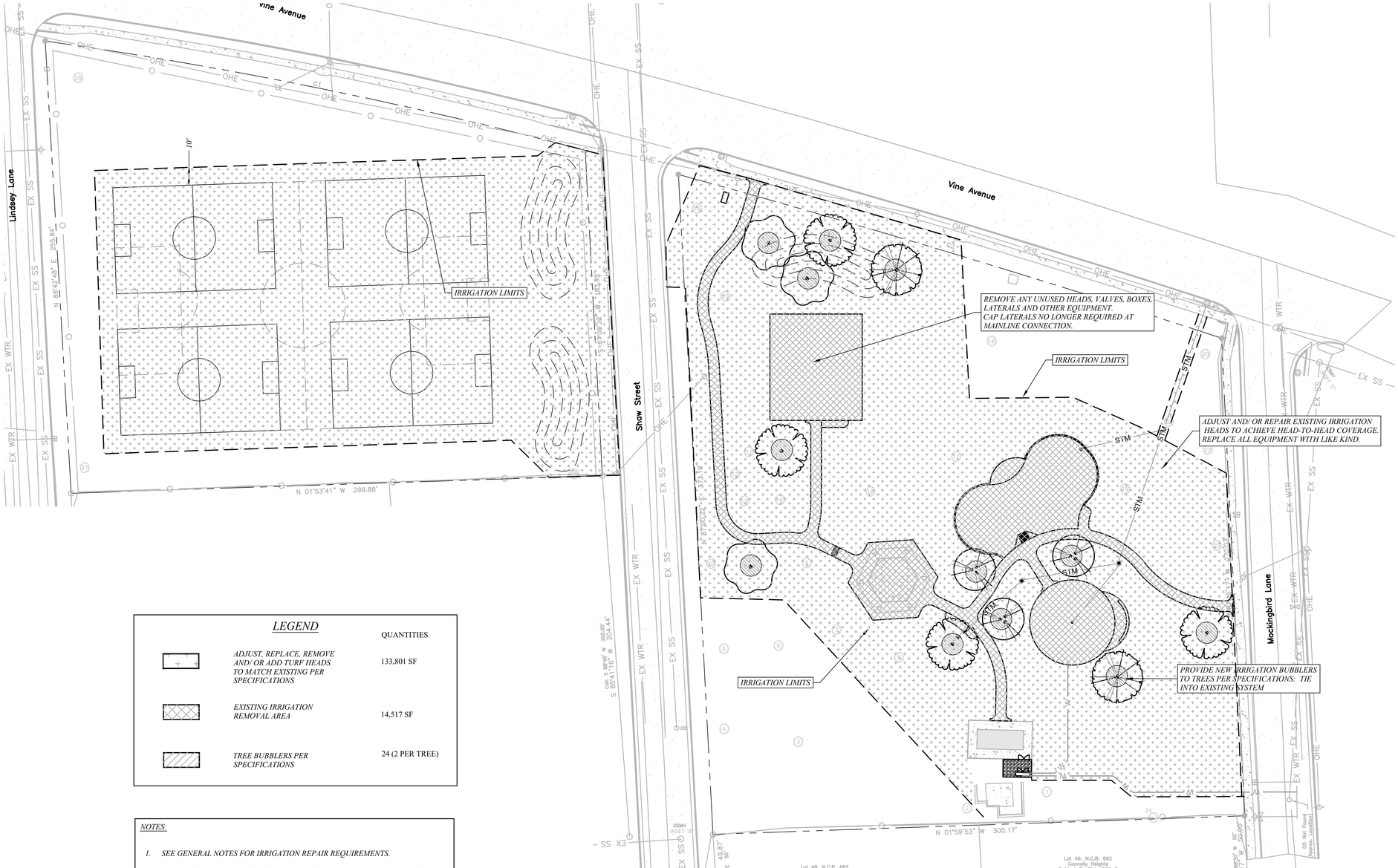

N

0 30 60 FEET

GRAPHIC SCALE

LEGEND

		QUANTITIES
	ADJUST, REPLACE, REMOVE AND/ OR ADD TURF HEADS TO MATCH EXISTING PER SPECIFICATIONS	133,801 SF
	EXISTING IRRIGATION REMOVAL AREA	14,517 SF
	TREE BUBBLERS PER SPECIFICATIONS	24 (2 PER TREE)

NOTES:

1. SEE GENERAL NOTES FOR IRRIGATION REPAIR REQUIREMENTS.
2. SEE TECHNICAL SPECIFICATION SECTION 328000 FOR IRRIGATION REQUIREMENTS.
3. CONTRACTOR TO VERIFY ALL HEAD PLACEMENTS ARE LOCATED TO ACHIEVE HEAD-TO-HEAD COVERAGE.
4. CITY TO VERIFY LOCATION OF EXISTING IRRIGATION LINES, MAINLINE, HEADS AND VALVES.
5. COORDINATE WITH IRRIGATION DESIGNER IF WATER PRESSURE IS NOT ADEQUATE TO OPERATE THE SYSTEM AS DESIGNED.
6. ALL BUBBLERS ARE TO BE ADDED TO EXISTING BUBBLER ZONE. IF NOT AVAILABLE, AN ADDITIONAL ZONE AND VALVE WILL NEED TO BE ADDED.
7. ALL ZONES WILL BE ADDED TO EXISTING CONTROLLER
8. HEADS MAY BE ADJUSTED TO MAXIMIZE EFFICIENCY AND ENSURE FULL COVERAGE WITH EXISTING SYSTEM.
9. NO TRENCHING IS PERMITTED IN THE INNER 50% OF THE EXISTING TREE DRIPLINE.
10. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER ON ALL UTILITY CROSSINGS.

Know what's below.
Call before you dig.

REVISIONS:

STATE OF TEXAS
MICA E. PEREZ
LI0020774
LICENSED IRRIGATOR

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

IRRIGATION PLAN

P.T. COLE PARK

CITY OF TYLER, TEXAS

DRAWN:	MEP
CHECKED:	WHS
DATE:	10/11/2022
SCALE:	AS SHOWN
JOB NO.:	22-069

L2

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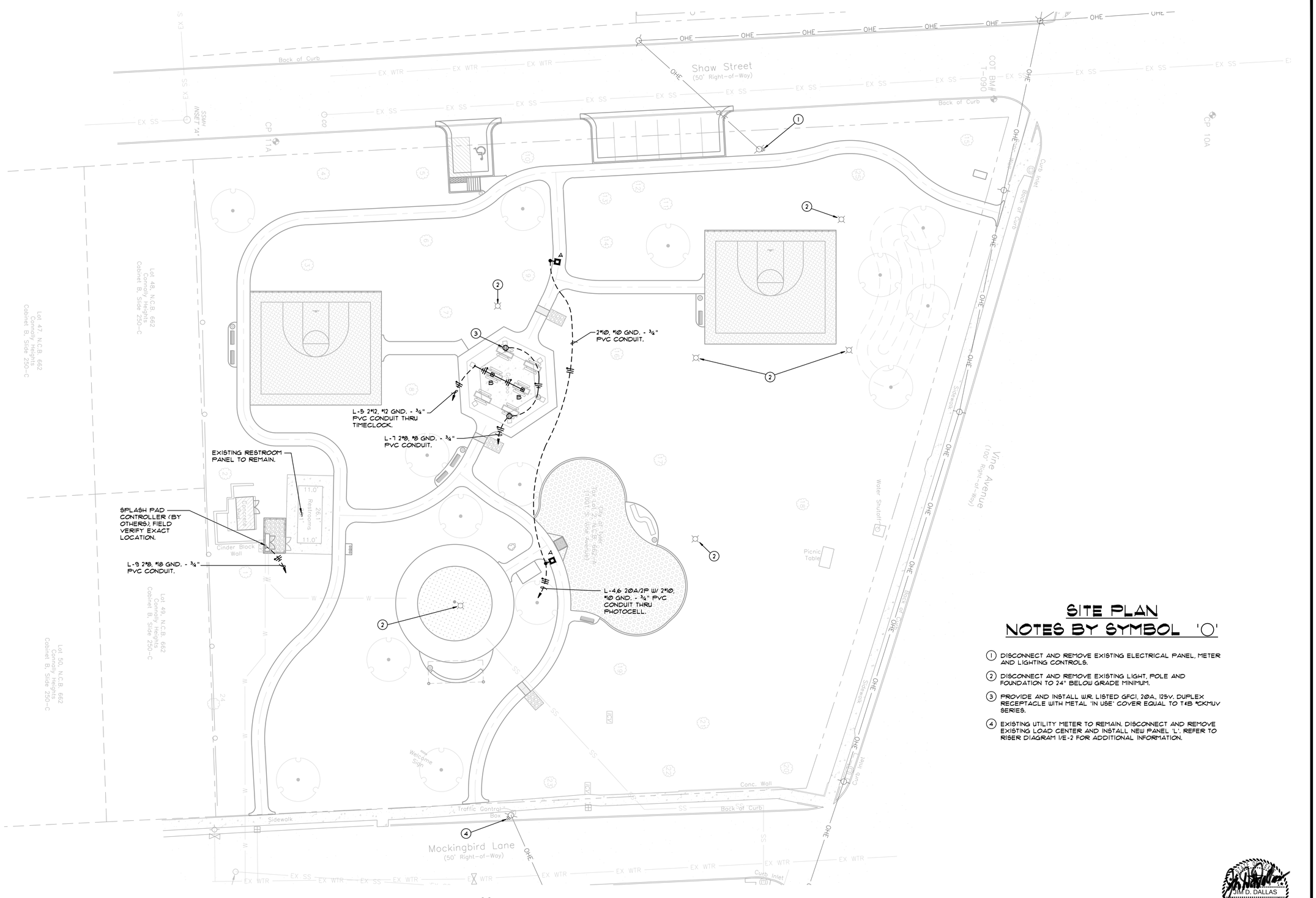


N

SITE PLAN - ELECTRICAL

SCALE: 1"=20'-0"

SITE PLAN
NOTES BY SYMBOL 'O'

1. DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL, METER AND LIGHTING CONTROLS.
2. DISCONNECT AND REMOVE EXISTING LIGHT, POLE AND FOUNDATION TO 24" BELOW GRADE MINIMUM.
3. PROVIDE AND INSTALL WR, LISTED GFCI, 20A., 125V. DUPLEX RECEPTACLE WITH METAL 'IN USE' COVER EQUAL TO T48 "CKMUV SERIES.
4. EXISTING UTILITY METER TO REMAIN. DISCONNECT AND REMOVE EXISTING LOAD CENTER AND INSTALL NEW PANEL 'L'. REFER TO RISER DIAGRAM 1/E-2 FOR ADDITIONAL INFORMATION.

REVISIONS:

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

SITE PLAN- ELECTRICAL

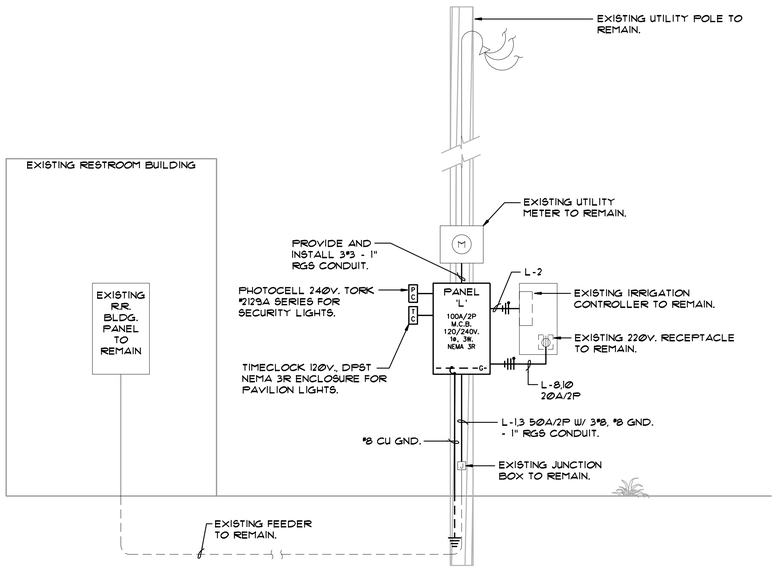
PT COLE PARK
CITY OF TYLER, TEXAS

DRAWN:	C.A.D.
CHECKED:	J.W.
DATE:	Oct. 2022
SCALE:	As Shown
JOB NO.:	22-069

E-1

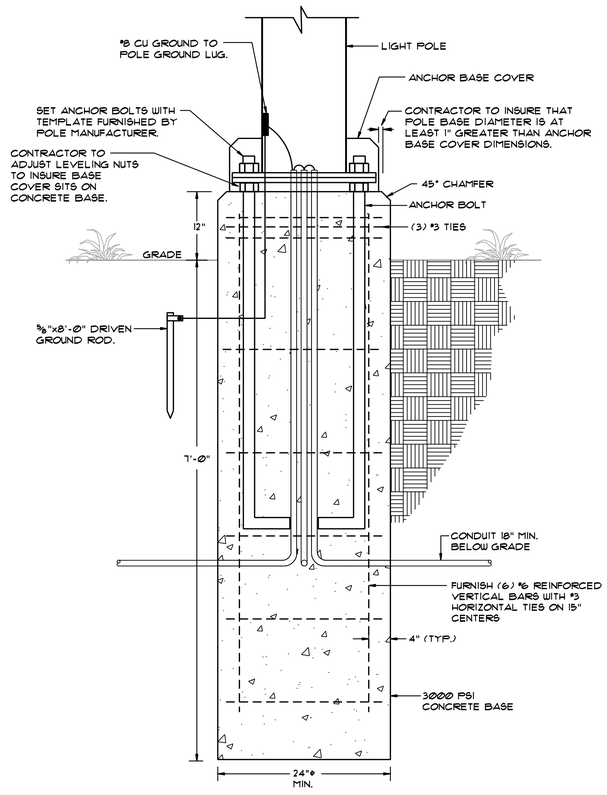
JIM D. DALLAS
85922
LICENSED
PROFESSIONAL ENGINEER
10/11/2022

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



1 ELECTRICAL RISER DIAGRAM

SCALE: NONE



2 TYPICAL POLE BASE DETAIL

SCALE: NONE

PANEL 'L'

NOTES	DESCRIPTION	P - AMP	LOAD LIGHTING	LOAD POWER	PH / CKT #	LOAD POWER	LOAD LIGHTING	P - AMP	DESCRIPTION	NOTES
	Existing Restroom Bldg.	2		4800	1 A 2	600		1 - 20	Exist. Irrigation Controller	
	Panel	50		4800	3 B 4		89	2	Security Lights	1
	Pavilion Lights	1 - 20	54		5 A 6		89	20		
	Pavilion Receptacles	1 - 20		1200	7 B 8	1800		2	Existing 220V. Receptacle	
	Splash Pad Controller	1 - 20		1500	9 A 10	1800		20		
	Space Only	1 - -	-----	-----	11 B 12	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	13 A 14	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	15 B 16	-----	-----	1 - -	Space Only	
	Space Only	1 - -	-----	-----	17 A 18	-----	-----	1 - -	Space Only	

LOAD SUMMARY	CONN. KW	N.E.C. DIV.	DIV. KW		
LIGHTING	0.2	X 1.25	0.3	POLES	18
POWER	16.5	X 1.0	16.5	SIZE	100 AMP
OTHER	0.0	X 1.0	0.0	MAINS	100A/2P M.C.B.
				VOLTS	120/240V., 1ø, 3W
				A.I.C.	10K
				MOUNTING	Surface
				ENCLOSURE	Lockable NEMA 3R
TOTALS	16.7		16.8		

PROJECT	PT Cole Park Tyler, Texas	NOTES: 1. Route circuit thru photocell.	PANEL AMPS 70
PANEL LOCATION:	Existing Utility Pole		
DATE:	October 2022		LOADS PER PHASE: PHASE A (KW) 8.8 PHASE B (KW) 7.9

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/MODEL #	VOLTAGE	WATTAGE	LAMPS	REMARKS
A	POLE MOUNTED LED AREA LUMINAIRE ON 25'-Ø" SQUARE STRAIGHT STEEL POLE	LITHONIA *DSXO LED P5 40K T5W MVOLT SPA DBLXD POLE: AMERICAN LITE POLE *SNS-25-4Ø-11-AB-BLK	120/277	89	LEDS FURNISHED	REFER 2/E-2 FOR POLE BASE DETAIL
B	SURFACE MOUNTED VANDAL RESISTANT LED LUMINAIRE	DURA GUARD *VN 34 Q F IX23 U 4K LP BLK	120/277	27	LEDS FURNISHED	

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10/11/2022

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ELECTRICAL DETAILS & SCHEDULES

PT COLE PARK
CITY OF TYLER, TEXAS

DRAWN:	C.A.D.
CHECKED:	J.W.
DATE:	Oct. 2022
SCALE:	As Shown
JOB NO.:	22-069

E-2

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.
2. EXISTING EQUIPMENT, OUTLETS, AND/OR LIGHTING FIXTURES WHICH ARE TO BE REMOVED SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY. BRANCH CIRCUIT, FEEDER, AND CONTROL WIRING SHALL BE REMOVED BACK TO THE SOURCE OF SUPPLY AND CONDUIT OR RACEWAY SHALL BE REMOVED BACK TO A POINT WHICH WILL NOT BE EXPOSED TO VIEW FROM FINISHED SPACES.
3. EXISTING OUTLETS WHICH ARE TO REMAIN ACTIVE AND HAVE HAD THEIR CIRCUIT INTERRUPTED DUE TO REMOVAL OR DEMOLITION SHALL BE RECONNECTED TO THE SOURCE OF SUPPLY WITH EQUAL CAPACITY CONDUCTORS IN METAL CONDUIT IN EXPOSED AREAS, AND PVC CONDUIT IN UNDERGROUND INSTALLATIONS.
4. FIXTURES AND EQUIPMENT WHICH ARE INDICATED TO BE REMOVED OR WHICH ARE NOT REQUIRED FOR REUSE SHALL HAVE WIRING REMOVED BACK TO THE SOURCE OF SUPPLY.

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. PANELBOARD.
   b. PAVILION LIGHTING FIXTURES.
   c. POLE MOUNTED SITE AND AREA LIGHTING FIXTURES.
   d. SERVICE ENTRANCE GROUNDING SYSTEM.
   e. LIGHTING CONTROLS, PHOTOCELLS AND TIMECLOCKS.
   f. WIRING DEVICES AND BRANCH CIRCUIT WIRING.
   g. OTHER ITEMS AND SERVICES REQUIRED TO COMPLETE THE SYSTEMS.

C. CODE COMPLIANCE:

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

D. RACEWAYS:

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

E. HANGERS AND SUPPORTS:

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

F. WIRE AND CABLES:

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

G. SPLICES AND TAPS:

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

H. GROUNDING:

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

I. OUTLET BOXES:

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

J. PULL AND JUNCTION BOXES:

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

K. WIRING DEVICES:

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

L. COVER PLATES:

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

M. PANELBOARDS:

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

N. LIGHTING FIXTURES:

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

O. NAMEPLATES:

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

P. SUBMITTALS:

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

Q. SUBSTITUTIONS:

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

R. GUARANTEE:

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

S. CLOSE OUT DOCUMENTS

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

END OF SPECIFICATION

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LICENSED
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10/11/2022

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ELECTRICAL SPECIFICATIONS

PT COLE PARK
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E-3