

Tomball Athletic Improvements

TOMBALL ISD

TOMBALL, TEXAS



CREEKSIDE PARK JUNIOR HIGH SCHOOL



ARCHITECT

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STRUCTURAL ENGINEER

Matrix Structural
5177 Richmond Avenue, Suite 670
Houston, Texas 77056
Main Phone: 713.664.0130
https://matrixstructural.com

PROGRAM MANAGER

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3700 West Sam Houston Parkway
South, Suite 400
Houston, Texas 77042
Main Phone: 713.266.6900
https://lan-inc.com/

Issued for Bid



ISSUED: SEPTEMBER 14, 2026

REVISIONS

Revision No.	Revision Date
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Project Director:

Project Architect: RSJ

Project Designer:

Drawn By: SDR

PROJECT NO.

25-0158.00

SHEET TITLE

COVER

SHEET NO.

COVER

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TOMBALL ISD
TOMBALL, TEXAS

Tomball Athletic Improvements

CONSTRUCTION PLAN FOR EXISTING SPORTS FIELD IMPROVEMENTS
AT
"CREEKSIDE PARK JUNIOR HIGH SCHOOL"
8711 CREEKSIDE GREEN DR, THE WOODLANDS, TX 77375
(INSIDE HARRIS COUNTY)

HARRIS-MONTGOMERY COUNTIES MUD 386
JOB No.: 25-0158.00 DATE: SEPTEMBER 2026

48 HOUR NOTICE:
48 HOUR NOTICE: CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES.
CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT
☎ (713-274-3931) OR (Public.Review@harriscountytx.gov)

SIGNED/SEALED AS-BUILT DRAWINGS FOR ALL WORK IN THE HARRIS COUNTY ROAD RIGHT OF WAY MUST BE SUBMITTED TO HARRIS COUNTY PER CURRENT REGULATION, PRIOR TO REQUESTING THE INSPECTION AND POWER RELEASE. SUBMIT THE DRAWINGS TO: <https://epermits.harriscountytx.gov/>.

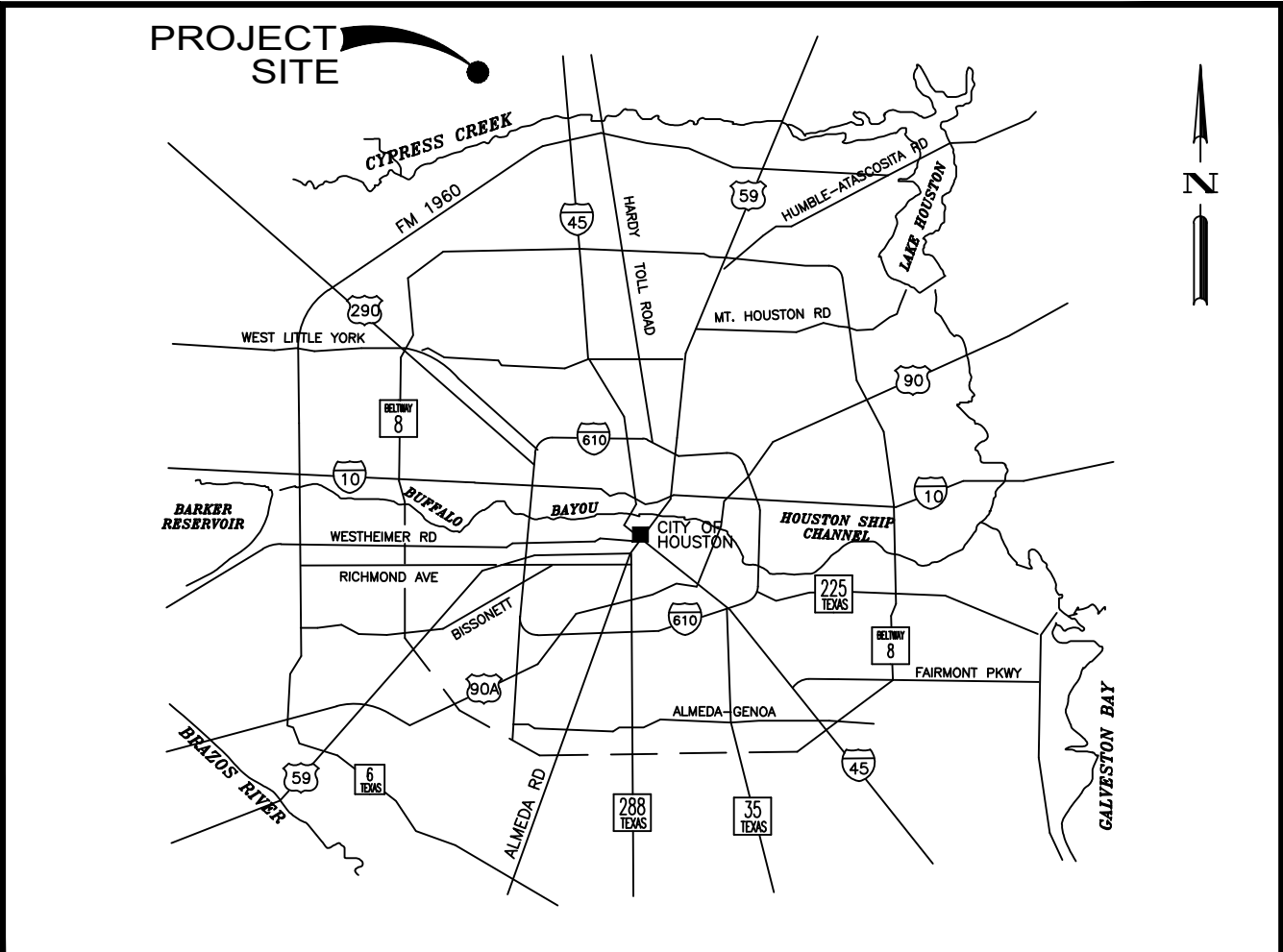
STOP - CALL BEFORE YOU DIG!!
CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS ONE CALL" AT 1-800-245-4545 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY ENGINEERING AND PUBLIC INFRASTRUCTURE DEPARTMENT, PERMIT OFFICE, REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN HARRIS COUNTY PUBLIC RIGHTS-OF-WAY.

CONTRACTOR AND OWNER SHALL COMPLY WITH THE REGULATIONS OF CITY OF HOUSTON AND HARRIS COUNTY, TEXAS FOR FLOODPLAIN MANAGEMENT.

HARRIS COUNTY MAY HAVE EXISTING UNDERGROUND / OVERHEAD UTILITIES WITHIN THE PROPOSED PROJECT LIMITS. PLEASE CONTACT THE CALL CENTER AT 713-881-3210, OR SUBMIT A WORK ORDER REQUESTS THROUGH <http://www.eng.hctx.net/SignalOut> TO OBTAIN FIELD LOCATES.





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1. THESE PLANS WERE PREPARED TO MEET OR EXCEED CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, HARRIS COUNTY RULES AND REGULATIONS AS AMENDED.
2. WATER LINES, WASTEWATER COLLECTION SYSTEMS, STORM DRAINAGE SYSTEMS AND STREET PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS – "DESIGN MANUAL, STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR WASTEWATER COLLECTIONS SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" PUBLISHED BY CITY OF HOUSTON AND HARRIS COUNTY'S ENGINEERING DEPARTMENT, CURRENT LATEST EDITION.
3. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY BY ONE CALL AT 713-223-4567 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, SEWER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL MAKE ALL REPAIRS TO EXISTING UTILITIES WITH HARRIS COUNTY, ENGINEERING DEPARTMENT'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO HARRIS COUNTY AND THE OWNER.
5. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY'S ROAD RIGHTS-OF-WAY.
6. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO COMMENCING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER, PUBLIC IMPROVEMENTS DEPARTMENT – PERMITS DIVISION AT (713) 274-3931 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING THE CONSTRUCTION.
8. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
10. AUTHORIZATION NOTICE ISSUED BY THE HARRIS COUNTY PUBLIC IMPROVEMENTS DEPARTMENT – PERMIT DIVISION, REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT HAND TURN LINES WITHIN HARRIS COUNTY RIGHT-OF-WAY. CONTACT HARRIS COUNTY PERMIT OFFICE AT (713) 274-3931.
11. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
12. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.
13. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEER PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO THE CITY ENGINEER.
14. MAINTAIN A MINIMUM OF 12-INCHES (12") CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE NOTED ON THE PLANS.
15. ALL UTILITIES WITHIN EASEMENTS SHALL BE LOCATED IN ACCORDANCE WITH STANDARDS OUTLINED BY THE MOST CURRENT UTILITY COORDINATING COMMITTEE DRAWINGS.
16. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY THE REGULATIONS OF HARRIS COUNTY, TEXAS AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
17. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS, IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
18. SEWER MATERIALS, CONSTRUCTION, AND TESTING TO BE IN ACCORDANCE WITH HARRIS COUNTY SPECIFICATIONS STANDARDS, LATEST PRINTING OF AMENDMENTS THERETO.
19. FLOW LINE ELEVATIONS AT MANHOLES ARE BASED ON DISTANCE BETWEEN MANHOLES AND NOT CENTERLINE RIGHT-OF-WAY STATIONING.
20. NATURAL GROUND ON PLAN AND PROFILE SHEETS ARE FOR CENTERLINE OF ROADWAY ONLY, UNLESS OTHERWISE NOTED ON THE PLANS.
21. ALL EXCAVATION UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN TWO FEET BEHIND BACK OF ALL CURBS TO BE BACKFILLED WITH 1-1/2 SACKS CEMENT PER CUBIC YARD CEMENT STABILIZED SAND TO BOTTOM OF SUBGRADE. THE WEAR BACKFILL TO BE MADE WITH COMPACTED-SELECT MATERIALS PLACED IN 8-INCH MAXIMUM LAYERS AND COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR.
22. ALL PROPOSED PIPE STUB-OUTS ARE TO BE PLUGGED. PLUG STORM SEWER PIPES WITH 8-INCH BRICK WALL; SANITARY SEWERS AND WATERLINES WITH PLUG AND CLAMP.
23. CONTRACTOR TO REMOVE PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED ON PLANS.

- UNLESS OTHERWISE NOTED ON PLANS, WHERE SANITARY AND/OR STORM SEWER MANHOLES ARE LOCATED WITHIN THE STREET R.O.W. OR EASEMENTS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY CONCRETE TO FINISH THE FINISHED GROUND ELEVATION TO BE A STRAIGHT LINE FROM NATURAL GROUND AT PROPERTY LINE TO TOP OF CURB. UTILITY CONTRACTOR TO MAKE FINAL RIM ELEVATION ADJUSTMENTS SUBSEQUENT TO FINAL LOT GRADING.
25. ALL BASES FOR SANITARY AND STORM SEWER MANHOLES TO BE REINFORCED WITH #4 BARS AT 12-INCH C-C EACH WAY OR 6X6X6 GAUGE WELDED WIRE MESH. CONCRETE FOR SANITARY MANHOLES BASES TO BE 6 SACK CEMENT/C.Y. CONCRETE AND FOR STORM MANHOLES IT SHALL BE 5 SACKS CEMENT/C.Y.
26. FILL TO BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER ASTM D-698.
27. ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE, AND DEBRIS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. NO DIRECT PAYMENT WILL BE MADE, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE VARIOUS BID ITEMS.
28. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBS WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
29. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY HARRIS COUNTY SUBSEQUENT TO PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
30. CONTRACTOR IS HEREBY INFORMED THAT ALL TRENCHING AND SHORING WILL BE DONE IN STRICT ACCORDANCE WITH THE LATEST OSHA STANDARDS.
31. TRAFFIC CONTROL CONSTRUCTION WARNING SIGNALS AND FLAGMEN, WHEN NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR AT SEPARATE PAY. CONTRACTOR ON ROAD SHALL BE PERFORMED IN SUCH A MANNER THAT OPERATING EQUIPMENT AND EXCAVATED MATERIAL ARE KEPT OFF THE PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY TRAFFIC CONTROL DEVICES AS PER THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
32. BORE PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL HARRIS COUNTY RULES AND REGULATIONS REGARDING SIZE, LOCATION, DEPTH, BACKFILL AND SHEETING REQUIREMENTS.
33. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
34. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS EXISTING CONDITION BY HYDROMULCH SEEDING AS PER THE SATISFACTION OF HARRIS COUNTY, ENGINEER AND THE OWNER.
35. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT MARKED THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT CONTRACTOR SHOULD LOCATE THEM PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX FEET (6') OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS SHALL BE RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY.
36. ANY DEBRIS, ROOTS, ETC. LEFT OVER FROM THE SITE CLEANING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE & DISPOSE.

1. STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST HARRIS COUNTY STANDARDS OF CONSTRUCTION WITH ALL AMENDMENTS THERETO, AND THESE PLANS AND SPECIFICATIONS.
2. ALL STORM SEWER PIPES LOCATED UNDER OR WITHIN TWO FEET OF PROPOSED OR FUTURE PAVING SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1-1/2 SACK/CUBIC YARD) UP TO BOTTOM OF SUBGRADE.
3. ALL STORM SEWER PIPES IN THE RIGHT OF WAY TO BE R.C.P. C-76, CLASS III, WITH RUBBER GASKET JOINTS, BEDDED PER HARRIS COUNTY DETAILS, AS APPROPRIATE. PRIVATE STORM SEWER SHALL BE HDPE AND HD STORM HIGH PERFORMANCE POLYPROPYLENE), SMOOTH INTERIOR, WATERTIGHT JOINT, UNLESS OTHERWISE NOTED.
4. CATCH BASIN INLETS SHALL BE TYPE "A", CURB INLET SHALL BE B-B INLET UNLESS OTHERWISE NOTED.
5. FIRST STAGE INLET TO BE CONSTRUCTED TO WITHIN APPROXIMATELY ONE FOOT BELOW BOTTOM OF PROPOSED PAVEMENT. COVER WITH TIMBER GRATE.
6. ALL STORM SEWER MANHOLES SHALL BE STANDARD, TYPE "C" UNLESS OTHERWISE NOTED.
7. MANHOLE & INLET COVERS SHALL BE CAST WITH THE LOGO "STORM" AND BE RATED FOR H-20 DESIGN LOADING.
8. CEMENT STABILIZED SAND BEDDING AND/OR BACKFILL FOR INSTALLATION UNDER OR WITHIN ONE FOOT OF PAVEMENT SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF STORM SEWER PIPE.

ADICO, LLC
TBPE FIRM NO. F-16423

The seal is circular with a double-lined border. The outer ring contains the text "STATE OF TEXAS" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The center features a five-pointed star. Below the star, the name "NANTHAVONGKSEY" is written in a bold, sans-serif font, followed by the number "99284". Below the seal, the word "LICENSED" is printed in a bold, sans-serif font. A signature is written across the bottom of the seal and the word "LICENSED".

09-14-2026

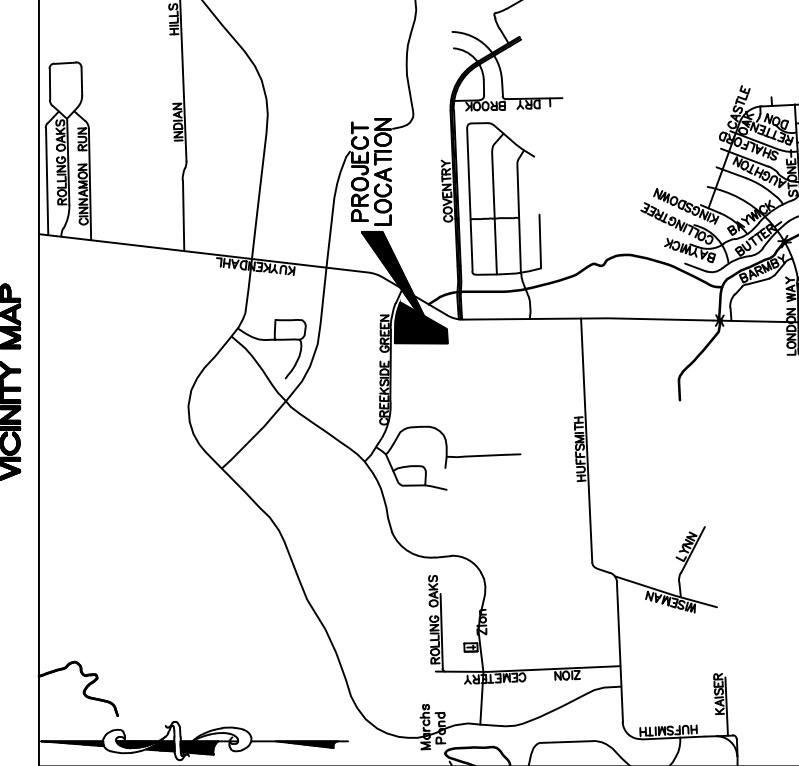
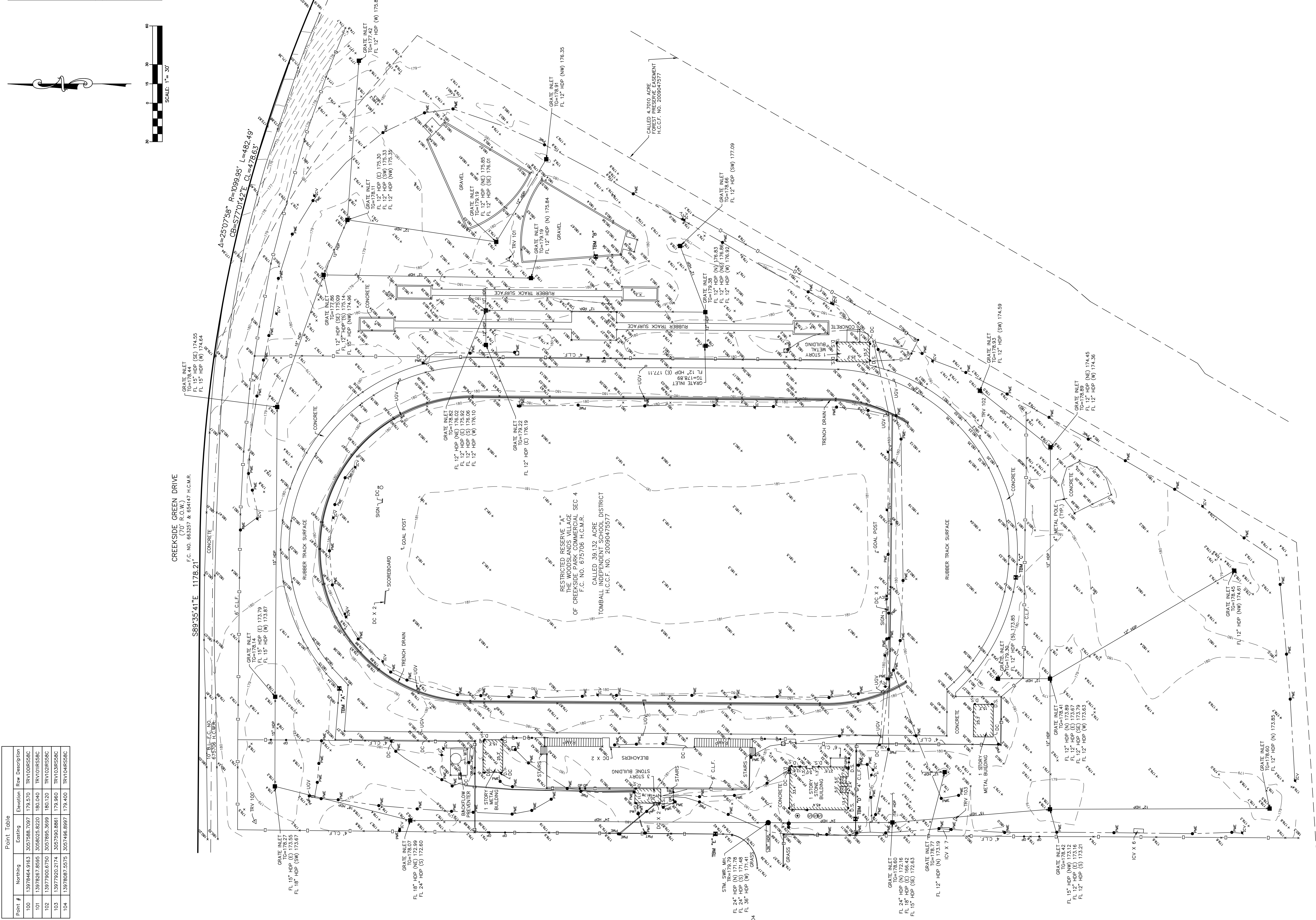
Revision No. Revision Date

SHEET NO.

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Tomball Athletic Improvements

Point Table			Raw Description
Point #	Northing	Easting	Elevation
101	33978464.1613	3057588.7097	179.570
101	33978287.8595	3058025.8220	180.040
102	33977900.6750	3057895.3699	180.120
103	33977920.2174	3057590.9881	179.980
104	33978087.5575	3057498.9997	179.400



- LEGEND**
- | | |
|--|--------------------------|
| | BENCHMARK |
| | BOLLARD |
| | CLEANOUT |
| | DOWN SPOUT |
| | D.S. |
| | ELECTRIC JUNCTION BOX |
| | FIRE HYDRANT |
| | FLAG POLE |
| | GATE POST |
| | HOSE BIB |
| | INLET |
| | IRRIGATION CONTROL VALVE |
| | LIGHT STANDARD |
| | MANHOLE |
| | PAINT MARKER (ELECTRIC) |
| | PAINT MARKER (TELEPHONE) |
| | SAMPLE WELL |
| | WATER VALVE |

ABBREVIATIONS

BL-BUILDING LINE
CLF-CHAIN LINK FENCE
CD-DOWN CONDUIT
FC-FLM CODE
FF-FINISH FLOOR
FL-FLOW LINE
H.C.C.F.-HARRIS COUNTY CLERK'S FILE
H.C.C.F.-HARRIS COUNTY MAP RECORDS
H.D.C.-HIGH DENSITY POLYETHYLENE PIPE
M-W-MANHOLE
R.W.-RIGHT-OF-WAY
STM-STORM
SWR-SEWER
TO-TOP OF GRADE
TO-TOP OF RM
T.O.T.-TOP OF TANK
LVY-UNDERGROUND VAULT
WT-WATER TANK

SURVEYOR'S NOTES:

1. THE BEARINGS & COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.
2. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE GRID (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999957421604.

3. ACCORDING TO F.I.R.M. MAP NO. 48201C0070L (COMMUNITY-PANEL NO. 480287), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

4. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON-SITE OBSERVATION UNLESS OTHERWISE NOTED.

5. → INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB-OUT.

PROVIDED BY LONESTAR LOCATING, LLC.
PAINT MARKS WITH NUMERIC VALUES
INDICATES COVER (FEET AND INCHES)
DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY

7. THE SUBJECT TRACT IS AFFECTED BY A SHORT FORM BLANKET EASEMENT TO CENTERPOINT ENERGY HOUSTON RECORDED

REFERENCE BENCHMARK:
UNION H.C.F.F. NO. 20100392300.

REFERENCE MARKER 120145 IS A BRASS DISC
LOCATED ON THE EAST SIDE OF KUYKENDAHL
ROAD AT CANNON GULLY.
ELEVATION=142.69' (NAVD88 2001 ADJ.)

TEMPORARY BENCHMARKS:
TBM "A" - BOX CUT ON CONCRETE LOCATED
+40' EAST FROM THE NORTHWEST CORNER OF

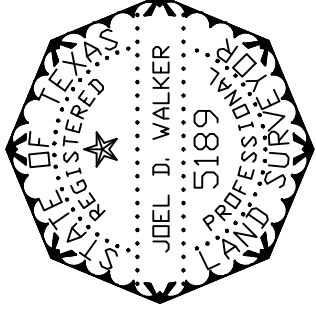
TBM "B" - BOX CUT ON CONCRETE ON THE WESTERN SIDE OF THE HOIST COLUMN.

SHOT PUT.
ELEVATION=180.59'
TBM "C" - BOX CUT ON CONCRETE LOCATED

TBM "D" - BOX CUT ON CONCRETE LOCATED
±108' SOUTH FROM THE GOAL POST.
ELEVATION=180.21'

15' SOUTHWEST FROM THE SOUTHWEST
CORNER OF 1 STORY STONE BUILDING.
ELEVATION=180.23'

±60' NORTHWEST FROM THE NORTHWEST
CORNER OF 1 STORY STONE BUILDING.
ELEVATION=179.48'



TO: TOMBALL INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

3/27/26
DATE

WEST BELT

SURVEYING, INC.

1020 PARK ROW
DALLAS, TX. 75240
PHONE: (214) 208-8282
FAX: (214) 852-0025
CREDITED FIRM NO. 10078800

TOPOGRAPHIC
SURVEY

CREEKSIDE PARK JUNIOR HIGH
OUT OF THE
ANDREW LAWSON SURVEY
ABSTRACT NO. 509
HARRIS COUNTY, TEXAS

THIS.



ARCHITECT

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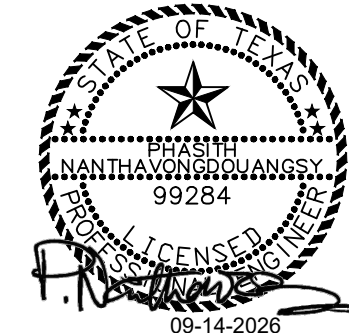
PROGRAM MANAGER

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Project Engineer:

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SHEET TITLE

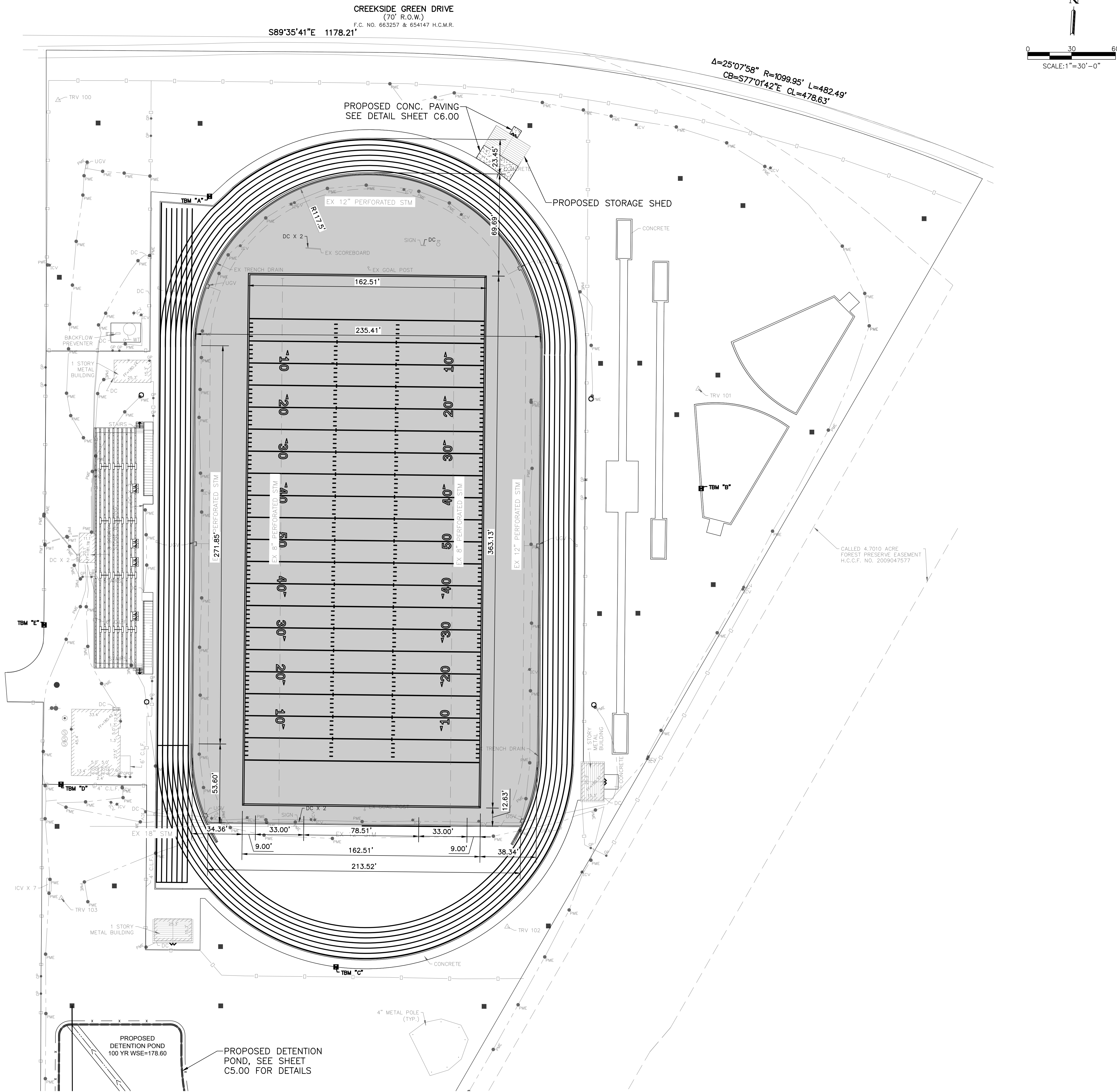
SITE DIMENSION PLAN

SHEET NO.

C3.00

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Tomball Athletic Improvements



LEGEND:

- PROPOSED SYNTHETIC TURF
- PROPOSED 4.5"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY



TOMBALL ISD
TOMBALL, TEXAS

ARCHITECT

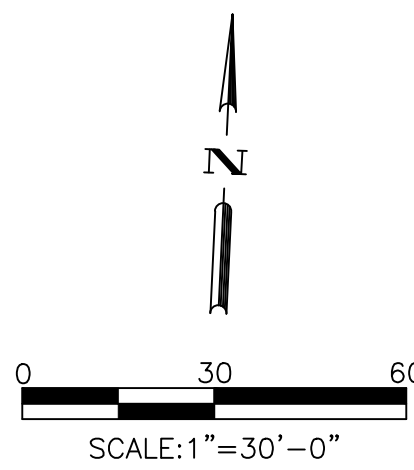
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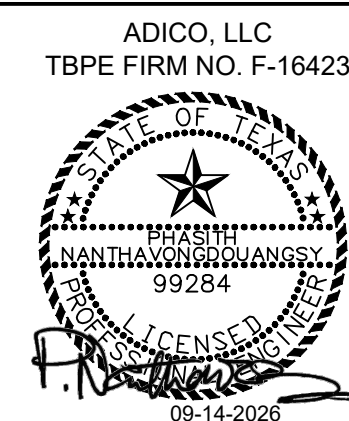
LEGEND:

- PROPOSED STORM INLET
- PROPOSED STORM SEWER
- PROP. PERF. UNDER DRAIN PIPE
- PROPOSED SYNTHETIC TURF

NOTE:
REQUIRED DETENTION TO BE VERIFIED AFTER CONFIRMATION
OF EXISTING CAPACITY.

AREA OF PROPOSED SYNTHETIC TURF ≈ 97,987 SF

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SHEET TITLE

GRADING PLAN

SHEET NO.

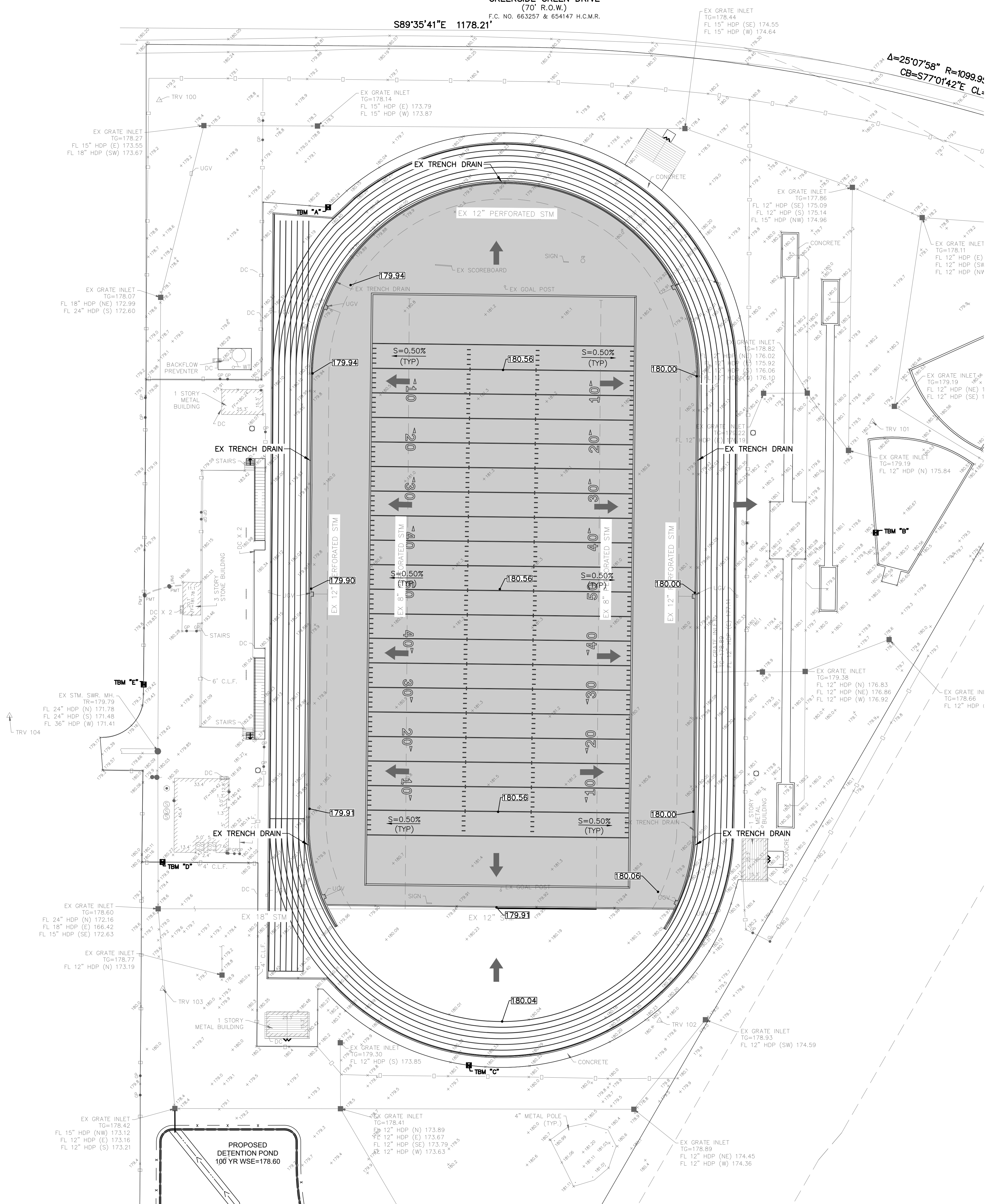
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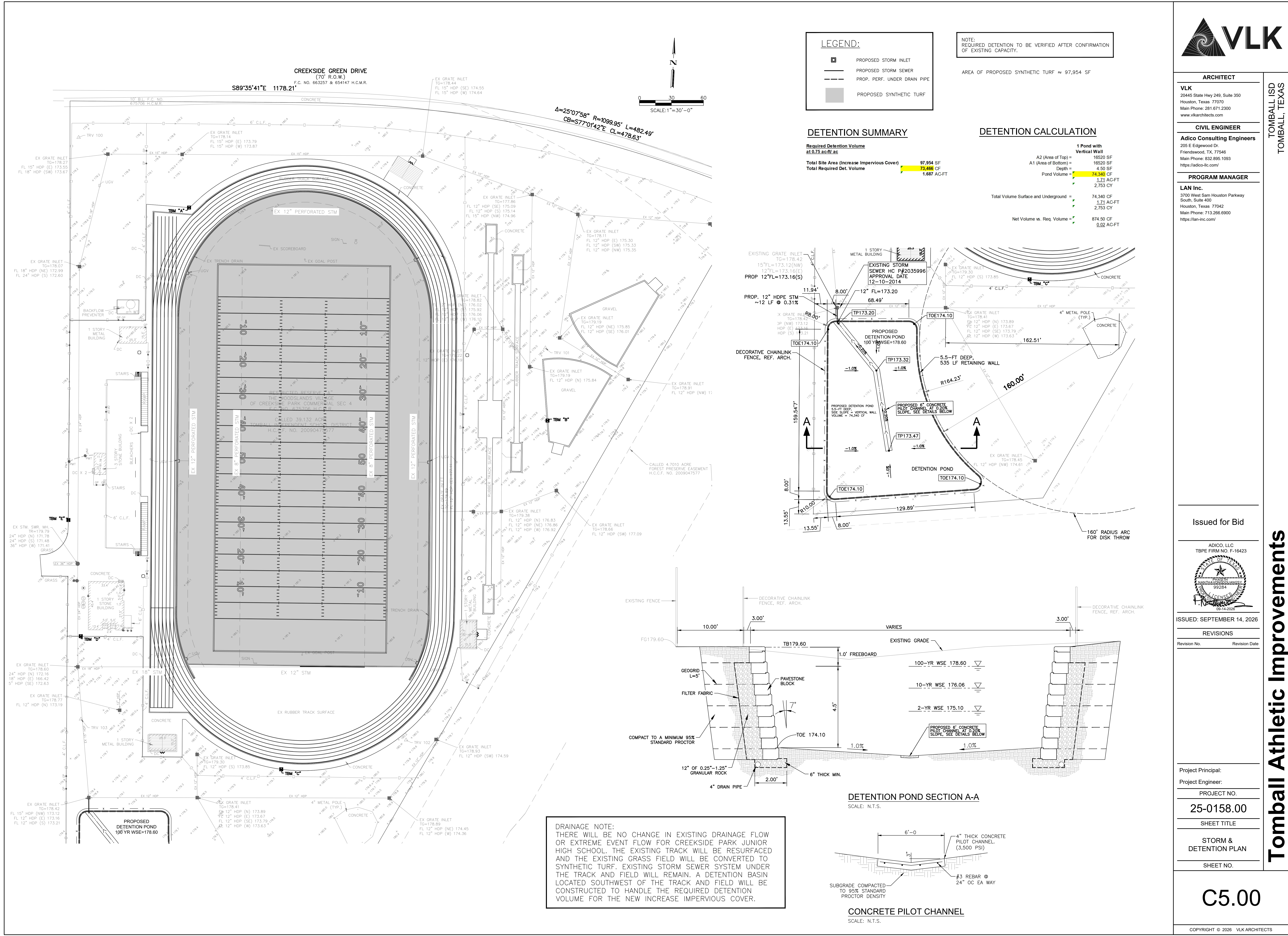
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Tomball Athletic Improvements

CREEKSIDE GREEN DRIVE
(70' R.O.W.)
S89°35'41"E 1178.21'
F.C. NO. 663257 & 654147 H.C.M.R.

Δ=25°07'58" R=1099.9;
CB=S77°01'42"E CL=





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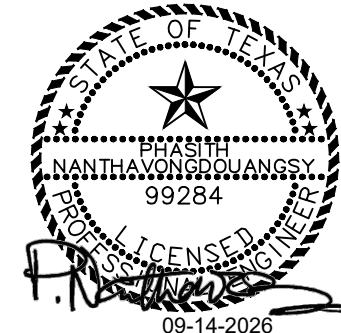
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SHEET TITLE

STORM &
DETENTION PLAN

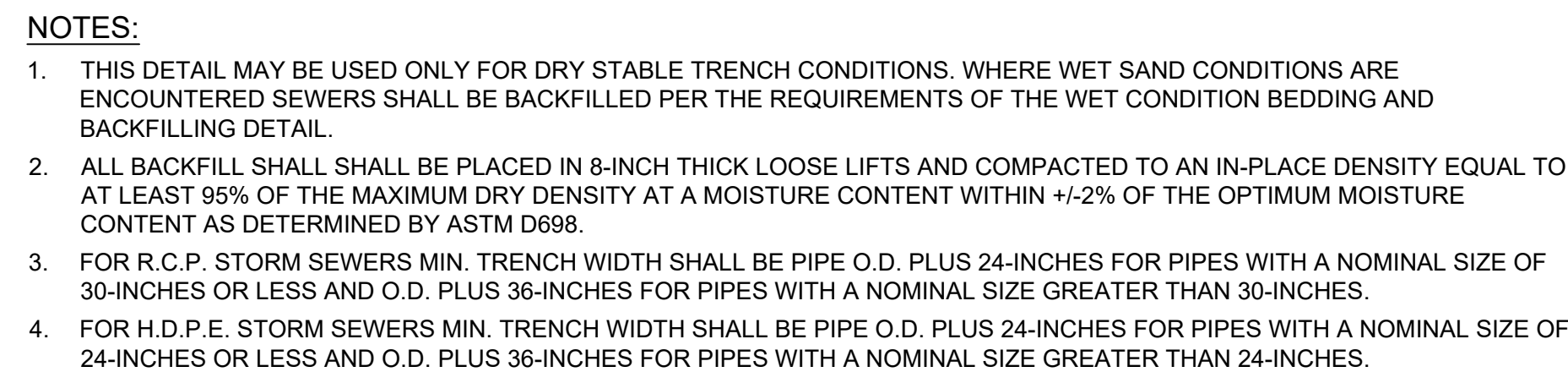
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TOMBALL ISD
TOMBALL, TEXAS

Tomball Athletic Improvements

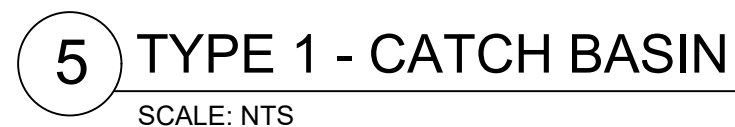


NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.



1 STORM SEWER BEDDING AND BACKFILL



1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

IPB



1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



Tomball Athletic Improvements

Issued for Bid



ISSUED: SEPTEMBER 14, 2026

REVISIONS

Revision No.	Revision Date
--------------	---------------

10. *Journal of the American Medical Association*, 277:1033-1034, 1997

Project Manager

Project Engineer:

25-0158.00

SHEET TITLE

DETAILS

SHEET NO.

CC 0

66.0

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1. PAVING

(FOR EXISTING OR PROPOSED HC PUBLIC R.O.W.)

DESIGN THICKNESS OF PAVING (IN.)	STABILIZED SUBGRADE DEPTH (IN.)	DESIGN STRENGTH OF CONCRETE (PSI)	DESIGN LONG. (IN.)	DESIGN TRANS. (IN.)	STEEL SPACING (IN.)	REINFORCEMENT (#4 MIN.)

DESIGN SURFACE COURSE THICKNESS (IN.)	DESIGN SURFACE COURSE TYPE (MATERIAL)	DESIGN BASE COURSE THICKNESS (IN.)	DESIGN BASE COURSE TYPE (MATERIAL)	STABILIZED SUBGRADE DEPTH (IN.)	STABILIZED SUBGRADE TYPE (MATERIAL)

DRIVEWAYS (IN EXISTING OR PROPOSED HC PUBLIC R.O.W.)

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED INCLUDING WIDENING OR REPAVING EXISTING DRIVEWAYS

DRWY	WIDTH	MATERIAL	CULVERT (Y/N)	LENGTH	NEAREST CROSS-STREET	DISTANCE TO CROSS-STREET
1						
2						
3						
4						
5						

II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET(S):

III. ADDITIONAL DRIVEWAY TABLE (AS APPLICABLE) APPEARS ON SHEET(S):

FIRE APPARATUS ACCESS ROAD

☐ REQUIRED AND SHOWN ON SHEET(S):

☒ NOT REQUIRED DUE TO: N/A

CURBING

☐ STANDARD 6" CURBING PROPOSED

☐ 4" x 12" CURBING PROPOSED EXCEPT AT MEDIANS AND ISLANDS

4. RESIDENTIAL / SUBDIVISION / STREET DEDICATION DRAINAGE

I. PROPOSED DRAINAGE SYSTEM TYPE

☐ STORM SEWER

☐ ROADSIDE DITCH

☐ LOW IMPACT DEVELOPMENT (LID)

II. DESIGN METHOD USED

☐ CITY OF HOUSTON YEAR FREQUENCY

☐ OTHER:

III. DRAINAGE SYSTEM OUTFALLS DIRECTLY TO EXISTING

☐ DETENTION BASIN (APPROVED HC PROJECT NO.):

☐ DETENTION BASIN MAINTAINED BY:

☐ HCFCD DRAINAGE DITCH UNIT NO.:

☐ HC ROADSIDE DITCH (ROAD NAME):

☐ HC STORM SEWER (APPROVED HC PROJECT NO.):

IV. HC OUTFALL CALCULATIONS

☐ ROADSIDE DITCH OUTFALL:

ALLOWABLE OUTFALL RATE: 0.0027 x LF FRONTAGE = (CFS)

PROPOSED OUTFALL RATE: (CFS), CALCULATIONS PROVIDED ON SHEET(S):

☐ STORM SEWER OUTFALL:

CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: (CFS)

FROM DRAINAGE AREA MAP DATED:

PREPARED BY:

APPROVED HC PROJECT NO.:

ACTUAL OUTFALL RATE: (CFS), CALCULATIONS PROVIDED ON SHEET(S):

V. DETENTION PROVIDED BY

☐ DETENTION BASIN IS PART THIS PLAN SET. SERVICE AREA MAP IS ON SHEET(S):

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED HC PROJECT NO.):

PROPOSED STORM SEWER IS SUBMERGED (AGREEMENT MUST BE PROVIDED).

STATIC W.S.E. @ OUTFALL IS

7. STORMWATER QUALITY

I. SWPPP: CONSTRUCTION MEASURES (COMPLETE FOR ALL PROJECTS)

NUMBER OF ACRES DISTURBED: 16.95 ACRES

☒ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S): C2.00

☐ DISTURBS <1AC. N/A

II. APPLICABILITY FOR PERMANENT FEATURES (COMPLETE FOR ALL PROJECTS)

EXEMPT NEW DEVELOPMENT:

☐ PROJECT IS ON A PARCEL, WITHIN A LARGER COMMON PLAN OF DEVELOPMENT OR SALE, LESS THAN 5 ACRES.

THIS EXEMPTION IS VERIFIED WITH THE PLAT AND/OR GENERAL PLAN ON THE PROPERTY.

EXEMPT REDEVELOPMENT:

☒ THE INCREASE IN THE TOTAL AMOUNT OF IMPERVIOUS SURFACE, CURRENT PROJECT AND ANY SINCE 10/01/2001, ON A PREVIOUSLY DEVELOPED 5 ACRE OR LARGER PARCEL, INDIVIDUALLY AND/OR CONTIGUOUSLY OWNED, IS LESS THAN 1 ACRE.

NEW IMPERVIOUS:

CURRENT PROJECT	PREVIOUS PROJECT(S)	TOTAL TOTAL (CURRENT+PREVIOUS)

EXEMPT GRANDFATHERED:

☐ DRAINAGE FROM THIS PROJECT OUTFALLS DIRECTLY INTO AN EXISTING AND APPROVED DRAINAGE SYSTEM PRIOR TO 10/01/2001 WITH NO NEW DETENTION REQUIREMENT. INCLUDE THE ORIGINAL DRAINAGE AREA MAP OF THAT SYSTEM FOR VERIFICATION. D.A. MAP NAME: DATE: APPROVED HC PROJECT NO.:

III. GENERAL

☐ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: (ONLY COMPLETE IF OUTSIDE OF INCORPORATED HARRIS COUNTY)

☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY:

☐ EXISTING SWQMP

PROJECT TITLE:

HC PROJECT NO.:

HC SWQ PERMIT NO.:

SWQ SERVICE AREA MAP INCLUDED ON SHEET(S):

☐ INDUSTRIAL PERMITTING. (IAC AND SUPPORTING DOCUMENTATION MUST BE SUBMITTED) PERMIT NO.:

IF THE PROJECT IS NOT EXEMPT, OUTSIDE OF HARRIS COUNTY'S JURISDICTION, OR COVERED BY AN EXISTING SWQMP, A STORMWATER QUALITY MANAGEMENT PLAN IS REQUIRED.

IV. PERMANENT SWQ FEATURES (COMPLETE IF NOT EXEMPT)

☐ SITE PLAN ON SHEET(S):

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY, LID) DETAILS AND CALCULATIONS APPEAR ON SHEET(S):

☐ BASIN STRUCTURE USED (WET, DRY, WETLANDS) STRUCTURAL CONTROL IN BASIN: DETAILS/CALCULATIONS ON SHEET(S):

☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: DETAILS/CALCULATIONS ON SHEET(S):

☐ OTHER(S): STRUCTURAL CONTROL(S): DETAILS/CALCULATIONS ON SHEET(S):

9. WATER AND WASTEWATER

I. COMMERCIAL PROJECTS

DOES THE PROPERTY HAVE UTILITIES?

☐ PROPOSED ☐ EXISTING ☒ NO

CHECK APPLICABLE

☒ PUBLIC WATER & SANITARY

☐ PRIVATE WATER WELL & SEPTIC SYSTEM

☐ PUBLIC WATER & PRIVATE SEPTIC SYSTEM

☐ PRIVATE WATER WELL & PUBLIC SANITARY

☐ LETTER FROM THE DISTRICT / MUNICIPALITY AUTHORIZING MUNICIPALITY AUTHORIZING SERVICE & CONNECTION. UTILITY DISTRICT / MUNICIPALITY NAME: HARRIS - MONT. CO MUD 386

☐ PROPOSED OR EXISTING SEPTIC TANK(S) AND DISPOSAL AREA(S) SHOWN ON SHEET(S):

☐ ALL EXISTING AND PROPOSED UTILITIES ACCURATELY SHOWN & LABELED ON THE SITE PLANS.

NOTE: SEPTIC SYSTEMS REQUIRE HC WASTEWATER REVIEW

HC SEPTIC PERMIT/REQUEST NO.

NOTE: DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND PERMITTING BY THE UNDERGROUND FIRE LINE CONTRACTOR. CIVIL REVIEW DOES NOT REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SYSTEMS.

WASTEWATER TREATMENT PLANTS

HC WWTP REVIEW:

☐ NEW WWTP SITE OR REHAB / EXPANSION OF AN EXISTING WWTP SITE

☐ HARRIS COUNTY DOMESTIC WASTEWATER TREATMENT PLANT EXPRESS REVIEW SHEET ATTACHED AND COMPLETED ACCORDING TO INSTRUCTIONS

12. PERMITS REQUIRED

☐ STORM WATER QUALITY

☐ ORIGINAL ☐ AMENDMENT TO PERMIT NO.:

☐ SEPTIC (EXISTING) ☐ SEPTIC (PROPOSED)

☒ CIVIL SITE WORK (PHASE II PERMIT CLASS I (UNSHADED X ZONE))

☐ CIVIL SITE WORK (PHASE II PERMIT CLASS II (ALL OTHER ZONES))

☐ DRIVEWAY WITH CULVERT ☐ DRIVEWAY WITH CURB AND GUTTER

☐ BUILDING(S) IS A CRITICAL FACILITY

☐ BUILDING PERMITS (NO. OF BUILDINGS =)

☐ SUBDIVISION INFRASTRUCTURE PHASE II (NO. OF LOTS =)

☐ NOTICE OF DETENTION AFFIDAVIT REQUIRED

☐ MUD MAINTENANCE AGREEMENT REQUIRED

☐ STREET DEDICATION

WORK IN HARRIS COUNTY R.O.W. NONE

☐ UTILITY WORK

☐ TURN LANE

☐ OTHER CONSTRUCTION

VIOLATIONS

☐ EXISTING VIOLATIONS ON PROPERTY

VIOLATION NUMBER(S): NONE

NOTES:

A PERMIT IS REQUIRED FOR EACH SCOPE OF WORK ON SITE.

A R.O.W. NOTIFICATION IS REQUIRED FOR EACH SCOPE OF WORK IN HC OR HCFCD R.O.W.

2. TRAFFIC

I. MEDIAN CUTS

☐ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET(S):

☒ NO MEDIAN CUT OR RELOCATION IS PROPOSED

II. LEFT / RIGHT TURN LANE

☐ LEFT / RIGHT TURN LANE IS SHOWN ON SHEET(S):

☒ NO LEFT / RIGHT TURN LANE IS PROPOSED

III. TRAFFIC CONTROL PLAN

☐ TRAFFIC CONTROL SHOWN ON SHEET(S):

☒ NO WORK IN HC RIGHT OF WAY

IV. TRAFFIC SIGNAL

☐ EXISTING TRAFFIC SIGNAL DEVICES (BOXES AND LOOPS) SHOWN ON SHEET(S):

☐ NEW ☐ REBUILT ☐ MODIFIED TRAFFIC SIGNAL SHOWN ON SHEET(S):

☐ HC FIBER PRESENT

☒ NO TRAFFIC SIGNAL

V. TRAFFIC IMPACT ANALYSIS

☐ TRAFFIC IMPACT ANALYSIS APPROVED ON DATE:

PROJECT NO.:

☒ NO TRAFFIC IMPACT ANALYSIS REQUIRED AND HC APPROVED

☒ NO NEW TRIPS GENERATED

VI. TRAFFIC VARIANCE

☐ TRAFFIC VARIANCE APPROVED ON DATE:

PROJECT NO.:

5. COMMERCIAL / OTHER SITE DRAINAGE

I. PROPOSED DRAINAGE AREA

☐ NEW DEVELOPMENT AREA:

☒ RE-DEVELOPMENT AREA (NET NEW DEVELOPED AREA): 2.248 AC

☐ LOW IMPACT DEVELOPMENT (LID)

II. DETENTION VOLUME

NEW AREA 2.248 x * = 1.686 ACRE FEET

DETENTION REQUIRED

☒ .65 (CHANNEL)

☒ .75 (STM SWR)

☒ 1.00 (RD. DITCH)

☒ OTHER:

PROPOSED DETENTION VOLUME = 1.71 ACRE FEET

PROPOSED DETENTION VOLUME CALCULATIONS ARE SHOWN ON SHEET(S): C5.00

DETENTION VOLUME PROVIDED BY EXISTING DETENTION BASIN

APPROVED HC PROJECT NO.:

DETENTION BASIN SERVICE AREA MAP IS PROVIDED ON SHEET(S): C5.0

III. OUTFALL

OUTFALL TO ☐ HC ROADSIDE DITCH

☐ EXISTING HC STORM SEWER

☒ OTHER EXISTING INTERNAL STORM SEWER

☐ HC ROADSIDE DITCH OUTFALL:

PROPOSED OUTFALL RATE: (CFS), CALCULATIONS PROVIDED ON SHEET(S):

ALLOWABLE OUTFALL RATE: 0.0027 x LF FRONTAGE = (CFS)

☐ HC STORM SEWER OUTFALL:

CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: (CFS)

FROM DRAINAGE AREA MAP DATED:

PREPARED BY:

APPROVED HC PROJECT NO.:

ACTUAL OUTFALL RATE: (CFS), CALCULATIONS PROVIDED ON SHEET(S):

IV. PUMPED DETENTION FACILITIES

VOLUME THAT GRAVITY FLOWS: ACRE FEET

VOLUME THAT IS PUMPED: ACRE FEET

ENTRANCE VELOCITY INTO ROADSIDE DITCH

OR STORM SEWER:

PUMP SPECIFICATIONS AND AUTOMATIC SHUTOFF PLAN FOR ROADSIDE DITCH & STORM SEWER OUTFALLS APPEAR ON SHEET(S):

V. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: 12" HDPE

RESTRICTOR PIPE SIZE: N/A

ON SHEET(S): C5.00

8. FLOODPLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0070L

FIRM PANEL(S) DATE: JUNE 18, 2007

STATUS OF PROPERTY ON MAP

☒ ENTIRELY LOCATED IN UNSHADED ZONE X

☐ LOCATED PARTIALLY OR ENTIRELY IN ANY A ZONE OR SHADED ZONE X, DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO.) (1% BASE FLOOD LEVEL) (0.2% BASE FLOOD LEVEL)

☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO. REVISED FLOODPLAIN IS SHOWN ON SHEET(S):

II. ELEVATION INFORMATION

BENCHMARK USED

☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK

☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)

DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT(2001 ADJ.)

RM120145 - HARRIS COUNTY FLOODPLAIN REFERENCE MARKER 120145 IS A BRASS DISC LOCATED ON THE EAST SIDE OF KUYKENDALL ROAD AT CANNON GUILY. ELEVATION=142.69 (NAVD88, 2001 ADJ.)

III. FLOODPLAIN DETERMINATION BASED ON GROUND ELEVATION

☐ PROPERTY LIES ENTIRELY ABOVE THE 1% BASE FLOOD LEVEL AND IN SHADED ZONE X

☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE 1% BASE FLOOD LEVEL

IV. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL)

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS

B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET(S):

10. SIDEWALKS

☐ SIDEWALKS ARE PROPOSED IN THIS DEVELOPMENT

☒ NO SIDEWALKS ARE PROPOSED IN THIS DEVELOPMENT

11. LANDSCAPING

☐ COMMERCIAL BUILDING(S) PROPOSED AND LANDSCAPING SHOWN ON SHEET(S):

☒ NO COMMERCIAL BUILDING(S) PROPOSED

BENCHMARK REQUIREMENTS FOR PROPOSED BRIDGES AND OR NEW RESIDENTIAL SUBDIVISIONS

When the County Engineer has determined that a new benchmark will be required to be established for the proposed project, the developer shall be required to install a benchmark per section 8.0, part 2 of the Harris County Infrastructure Regulations.

Is a new Benchmark required for this project? (to be determined by Harris County) [] yes [] no

If a new Benchmark is required, the proposed benchmark information is shown on sheet(s):

FOR PROJECTS LOCATED IN ANY FLOODPLAIN

Development constructed or placed in accordance with these plans will comply with all provisions of the Regulations of Harris County, Texas for Floodplain Management.

No net fill is allowed in the flood plain and no fill is allowed in the floodway.

FOUNDATION NOTES: (Applies to only buildings or building additions requiring a class II permit)

All water heaters, furnaces, air conditioning units, electrical distribution panels, and any other mechanical or electrical equipment must be elevated in accordance with Section 4.05 of Harris County Floodplain regulations.

Any electrical circuit serving a light switch or outlet located below the base (100-year) flood elevation shall be dropped from above and be on a separate breaker.

All materials used below the (100-year) base flood elevation are on approved FEMA Technical Bulletin 2-08 as Class 5 water-resistant, and approved in accordance with FEMA Technical Bulletin 1-08 for foundation openings.

Critical facilities located in the 0.2% or 500yr floodplain or 1% or 100yr floodplain shall have the lowest floor elevated to 3 feet or more above the 0.2% flood elevation, or 24 inches above the crown of the adjacent road, which ever results in a higher elevation.

Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters.

Access routes elevated to or above the level of the base flood shall be provided to all critical facilities to the extent possible.

A completed as-built certificate must be submitted after the structure is complete and before it is occupied.

The County Engineer's Office will post a final inspection notice on the structure once all requirements have been met.

No fill may be used to elevate structures in the 1% or 100yr flood plain. Structures may be constructed on an open foundation, such as piers, or on continuous foundation walls with properly sized and located openings. All foundations are required to be designed by a registered professional engineer.

All structures shall be designed to withstand a three second gust basic wind speed of 120mph.

Completed "Elevation Certificates to be submitted: one at permitting, a second after the slab is poured or sub-floor is installed and before the framing starts, and a third is required once construction is finished. *(PER CURRENT FIRM PANEL)

3. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION

A. ACREAGE: 39.132 ACRES

B. ☐ SUBDIVISION: THE WOODLANDS VILLAGE OF CREEKSIDE PARK COMMERCIAL SEC 4

☒ SURVEY & ABSTRACT:

RES A BLK 1

C. ADJACENT ROADS: CREEKSIDE GREEN DRIVE

II. PLATTING

A. SUBDIVISION PLAT (CHECK APPLICABLE)

☐ PROPOSED PLAT / REPLAT

☐ RECORDED PLAT / REPLAT

☒ EXEMPT FROM PLAT / REPLAT

B. STREETS PROPOSED

☐ PUBLIC

☐ PRIVATE

☐ PUBLIC & PRIVATE

☒ NONE

PLAT NAME: THE WOODLANDS VILLAGE OF CREEKSIDE PARK

NOTE: FINAL CPC101 REQUIRED FOR PLAN APPROVAL, RECORDED PLAT REQUIRED FOR FINAL INSPECTION.

III. JURISDICTIONS

☐ CITY OF

☐ ETJ, CITY OF HOUSTON

☒ ETJ, CITY OF HOUSTON

☐ NO ETJ

IV. HCAD ACCOUNT NOS. (ALL)

137-035-001-0001

V. UNOBSTRUCTED VISIBILITY EASEMENT (U.V.E.)

☐ REQUIRED PER PLANNING COMMISSION / HC REGULATIONS SHOWN ON SHEET(S):

☒ NOT REQUIRED PER PLANNING COMMISSION / HC REGULATIONS

6. OFFSITE SHEET FLOW (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMMODATIONS ARE SHOWN ON SHEET(S):

TOTAL ACREAGE = 0 (AC.)

TOTAL DISCHARGE = 0 (CFS)

☒ ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT.

☒ SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

9. FLOODPLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0070L

FIRM PANEL(S) DATE: JUNE 18, 2007

STATUS OF PROPERTY ON MAP

☒ ENTIRELY LOCATED IN UNSHADED ZONE X

☐ LOCATED PARTIALLY OR ENTIRELY IN ANY A ZONE OR SHADED ZONE X, DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO.) (1% BASE FLOOD LEVEL) (0.2% BASE FLOOD LEVEL)

☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO. REVISED FLOODPLAIN IS SHOWN ON SHEET(S):

II. ELEVATION INFORMATION

BENCHMARK USED

☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK

☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)

DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT(2001 ADJ.)

RM120145 - HARRIS COUNTY FLOODPLAIN REFERENCE MARKER 120145 IS A BRASS DISC LOCATED ON THE EAST SIDE OF KUYKENDALL ROAD AT CANNON GUILY. ELEVATION=142.69 (NAVD88, 2001 ADJ.)

III. FLOODPLAIN DETERMINATION BASED ON GROUND ELEVATION

☐ PROPERTY LIES ENTIRELY ABOVE THE 1% BASE FLOOD LEVEL AND IN SHADED ZONE X

☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE 1% BASE FLOOD LEVEL

IV. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL)

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS

B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET(S):

ENGINEER'S CERTIFICATION

I, PHASITHNANTHAVONG P.E., A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE. I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS IN THEIR ENTIRETY ARE DESIGNED PER THE HARRIS COUNTY ENGINEERING STANDARDS, REGULATIONS, AND GUIDELINES UNLESS PROVIDED A VARIANCE BY THE COUNTY ENGINEER OR HIS DESIGNEE. SHOULD IT BE DEEMED BY HCED STAFF, THAT THE PLANS DO NOT MEET THE COUNTY'S STANDARDS, REGULATIONS AND GUIDELINES AND DID NOT RECEIVE AN APPROVED VARIANCE, THE APPROVAL OF SAID PLANS BECOMES NULL AND VOID AND THE DESIGN PLANS MUST BE CORRECTED AT NO CHARGE TO THE COUNTY.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS C00.00 THRU C08.00

SIGNATURE DATE 09/14/26

ADICO, LLC TBPE FIRM NO. F-16423

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY.

REV. NO. DATE SHEET NO. DESCRIPTION P.E. INITIAL HC APPROVED DATE HC INITIAL

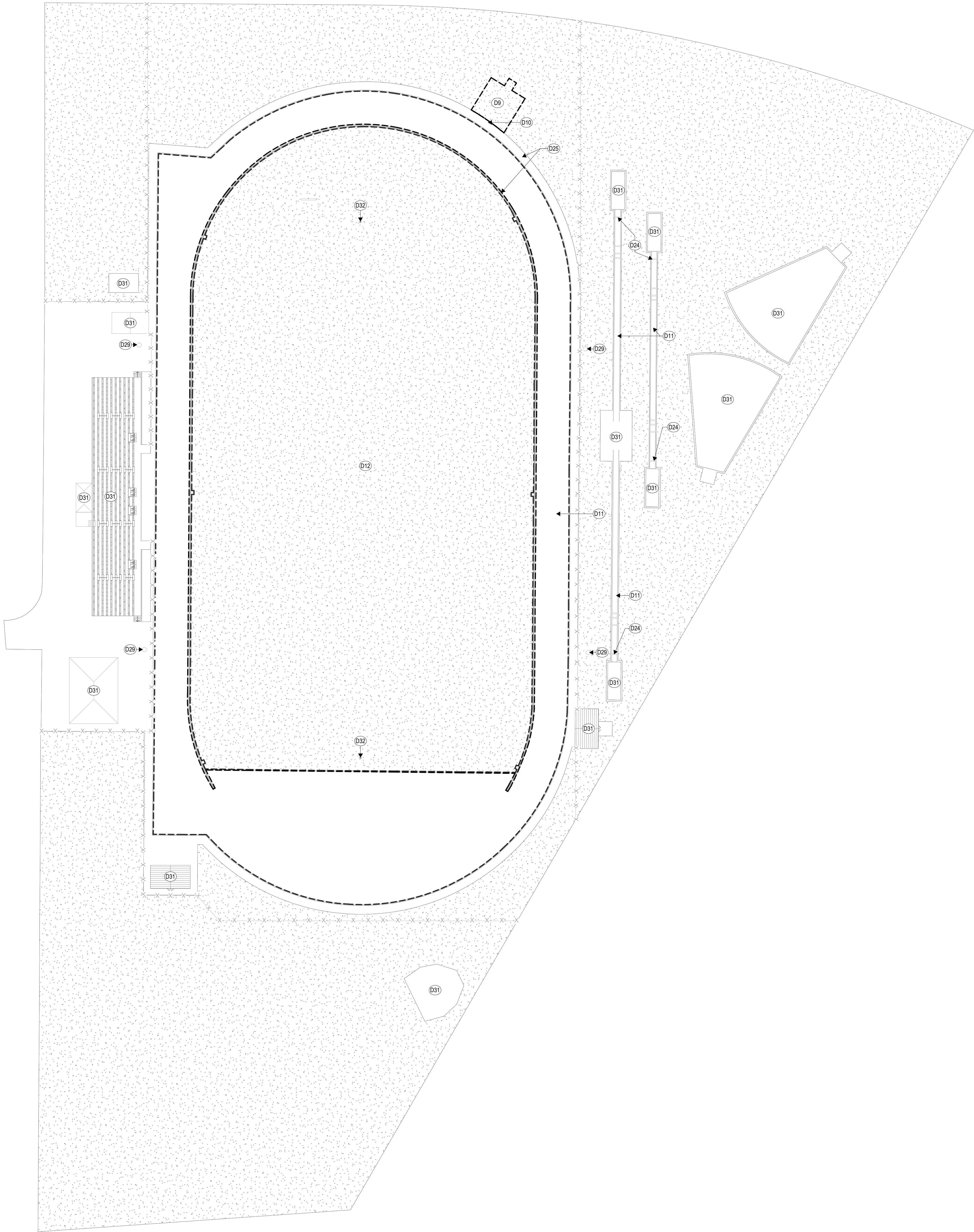
HC PROJECT NO. 2607270015 HCFCD PROJECT NO. 260720017 SHEET NUMBER C7.00 OF C8.00



1

OVERALL DEMO FLOOR PLAN - LEVEL ONE

SCALE: 1/32" = 1'-0"



DEMOLITION NOTES

- Drawings show the general extent of demolition work, however it is impractical to indicate or note every item of demolition. Any items shown dashed are to be removed to make way for new construction, unless noted otherwise.
- Existing materials containing asbestos to be removed under separate contract prior to construction by Owner's asbestos abatement contractor. Contact the Owner prior to the start of demolition to determine items to be salvaged and returned to Owner.
- Protect items to remain from damage during demolition.
- Properly protect and store items to be removed and reinstalled or relocated.
- Repair or replace at no cost to the Owner any damages to the existing building and site (and all areas whether scheduled for construction or not) as a result of construction activities.
- Refer to electrical and mechanical demolition plan for additional information.
- Patch/repair flooring to match existing at all removed or demolished doors, windows, walls, millwork, lockers and similar items.
- For any surfaces receiving a paint refresh, ensure surfaces are properly prepared to receive paint per manufacturer requirements.

DEMOLITION KEYNOTES

MARK	DESCRIPTION
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DEMO NOTES

D9	ADD/ALT. - PREPARE AREA FOR STORAGE SHED & CONCRETE PAD. REF. A1.22
D10	DEMOLISH FENCE FOR ACCESS TO STORAGE SHED
D11	DEMOLISH EXISTING TRACK SURFACE TO PREPARE FOR NEW RESURFACING AND RESTRIPIING
D12	DEMOLISH CURRENT FIELD CONDITIONS TO PREPARE FOR NEW SYNTHETIC TURF INSTALL
D24	REMOVE ALL EXISTING "TAKE-OFF" BOARDS AND PREPARE AREA FOR NEW REPLACEMENT BOARDS
D25	EXISTING TRACK CONCRETE CURB/TRENCH DRAIN AND SIDEWALK TO REMAIN. CONTRACTOR TO PROTECTS EXISTING CONDITIONS DURING CONSTRUCTION OF NEW FIELD SURFACE AND TRACK SURFACE REPLACEMENT
D29	REMOVE EXISTING LIGHTING FIXTURES TO PREPARE FOR NEW LED LIGHTING UPGRADES. MAINTAIN AND PROTECT EXISTING LIGHTING POLES.
D31	EXISTING SITE CONDITION. CONTRACTOR TO PROTECT ALL AREAS THAT ARE NOT SCHEDULED FOR CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT. ANY AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE REPAIRED TO MATCH PRE-DAMAGED CONDITIONS AT NO COST TO THE OWNER.
D32	ADD/ALT. - PREPARE GOAL POST SURFACE PER MANUFACTURER'S REQUIREMENTS TO RECEIVE NEW PAINT



ARCHITECT

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20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

TOMBALL ISD
TOMBALL, TEXAS

Issued for Bid



ISSUED: SEPTEMBER 14, 2026

REVISIONS

Revision No. Revision Date

Project Director:

Project Architect: RSJ

Project Designer:

Drawn By: SDR

PROJECT NO.

25-0158.00

SHEET TITLE

DEMO SITE PLAN -
CREEKSIDE PARK JHS

SHEET NO.

A0.01

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Tomball Athletic Improvements



1 CPJHS POTENTIAL LAYDOWN AREA
SCALE: NTS



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TOMBALL ISD
TOMBALL, TEXAS

Issued for Bid



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REVISIONS

Revision No. Revision Date

Project Director:
Project Architect: RSJ
Project Designer:
Drawn By: SDR

PROJECT NO.

25-0158.00

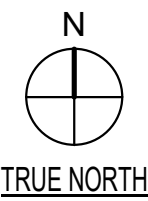
SHEET TITLE

CREEKSIDE PARK JHS -
LAYDOWN PLAN

SHEET NO.

A0.02

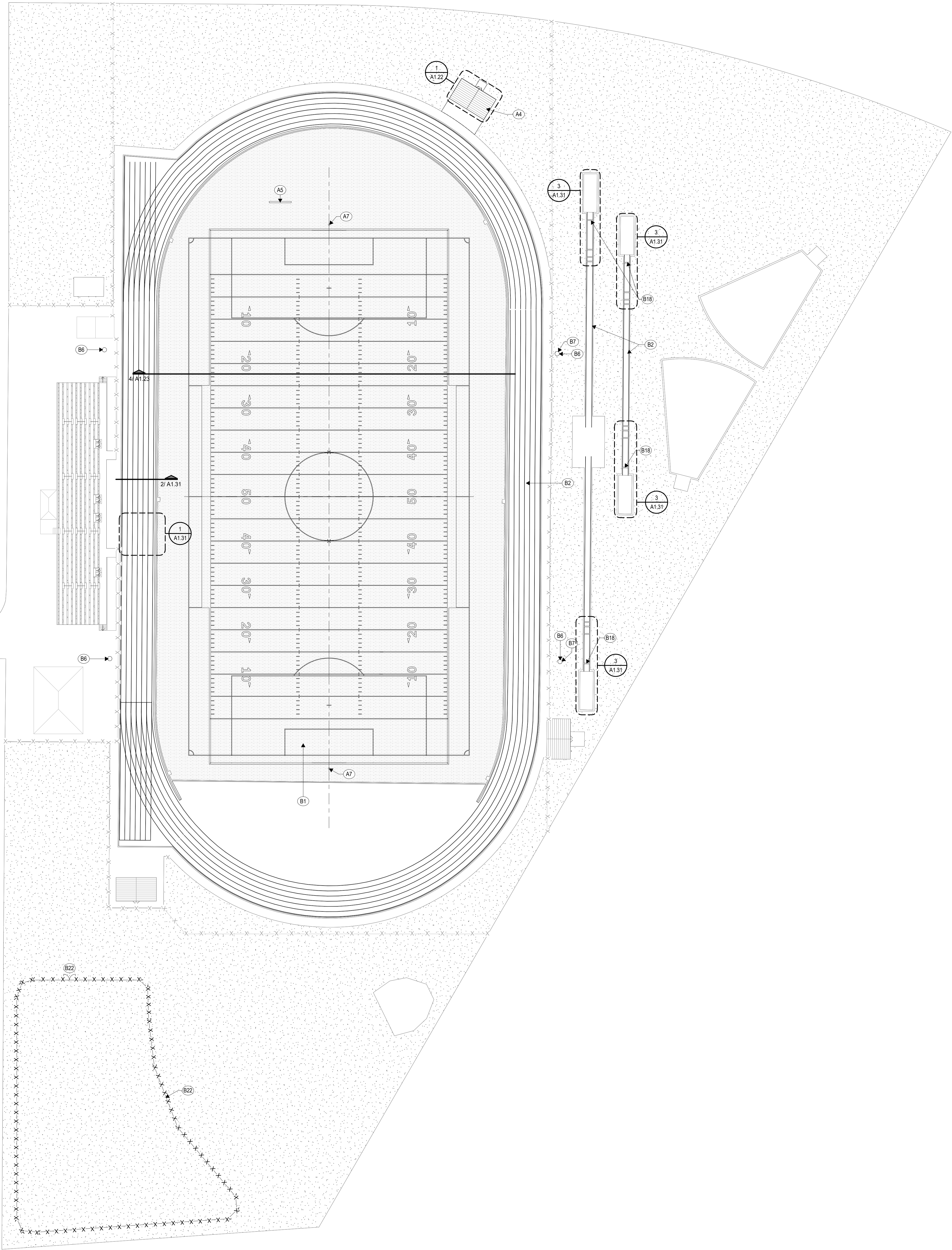
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1

SITE PLAN - CREEKSIDE PARK JHS

SCALE: 1" = 30'-0"



SITE PLAN NOTES

1. Verify and document existing dimensions and conditions at the site before beginning construction. Notify the Architect of conflicts or variations prior to commencement of construction.
2. To prevent damage to existing trees and shrubs in proximity to the Work, provide and maintain protective barriers around those items in accordance with the specified procedures, or in the absence of those procedures, with recognized landscaping and horticultural practices.

SITE PLAN LEGEND

- FIRE LANE (PER CITY STANDARDS)
- X-X-X- CHAIN LINK FENCE, See Plan for Heights
- X-X-X- EXISTING CHAIN LINK FENCE, See Plan for Heights
- O-O-O- WOOD FENCE, See Plan for Heights
- O-O-O- EXISTING WOOD FENCE, See Plan for Heights
- // -// -// ORNAMENTAL FENCE, See Plan for Heights
- // -// -// EXISTING ORNAMENTAL FENCE, See Plan for Heights

KEYNOTES - CPJHS

MARK	DESCRIPTION
A4	ADD/ALT. - PRE-ENGINEERED METAL STORAGE BUILDING
A5	ADD/ALT. - SCOREBOARD UPGRADE, REF. A1.31 FOR FOOTING DESIGN
A7	ADD/ALT. - PAINT REFRESH FOR GOAL POSTS. PROPERLY PREPARE SURFACE TO RECEIVE PAINT AND PAINT PER MANUFACTURER REQUIREMENTS
B1	SYNTHETIC TURF INSTALL/REPLACEMENT
B2	TRACK RESURFACING/RESTRIPING AT EXISTING RUNWAYS
B6	SPORTS LED LIGHTING UPGRADES, REF. MEP DRAWINGS
B7	ADDED SPORTS LED FIXTURE HALFWAY UP EXISTING POLE FOR BETTER VISIBILITY FOR FIELD EVENTS, REF. MEP DRAWINGS
B18	NEW "TAKE OFF" BOARDS PER SPECIFICATIONS AND DETAIL
B22	NEW BLACK VINYL COATED 6' HIGH CHAIN LINK FENCE WITH GATE AROUND DETENTION POND, REF. 4/A1.31 AND 5/A1.31 FOR TYPICAL CHAIN LINK FENCE AND GATE DETAILS



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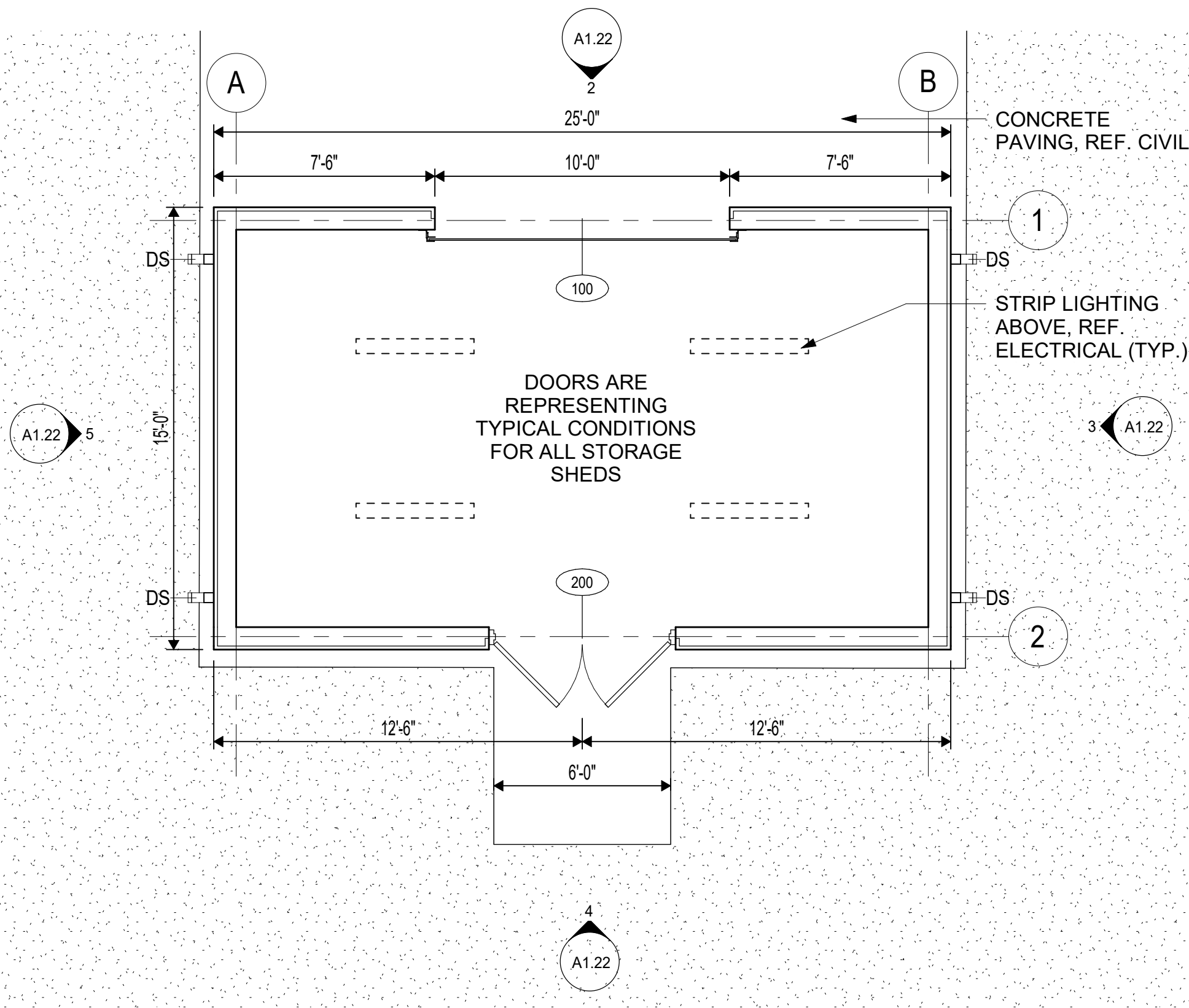
CREEKSIDE PARK JHS -
SITE PLAN

SHEET NO.

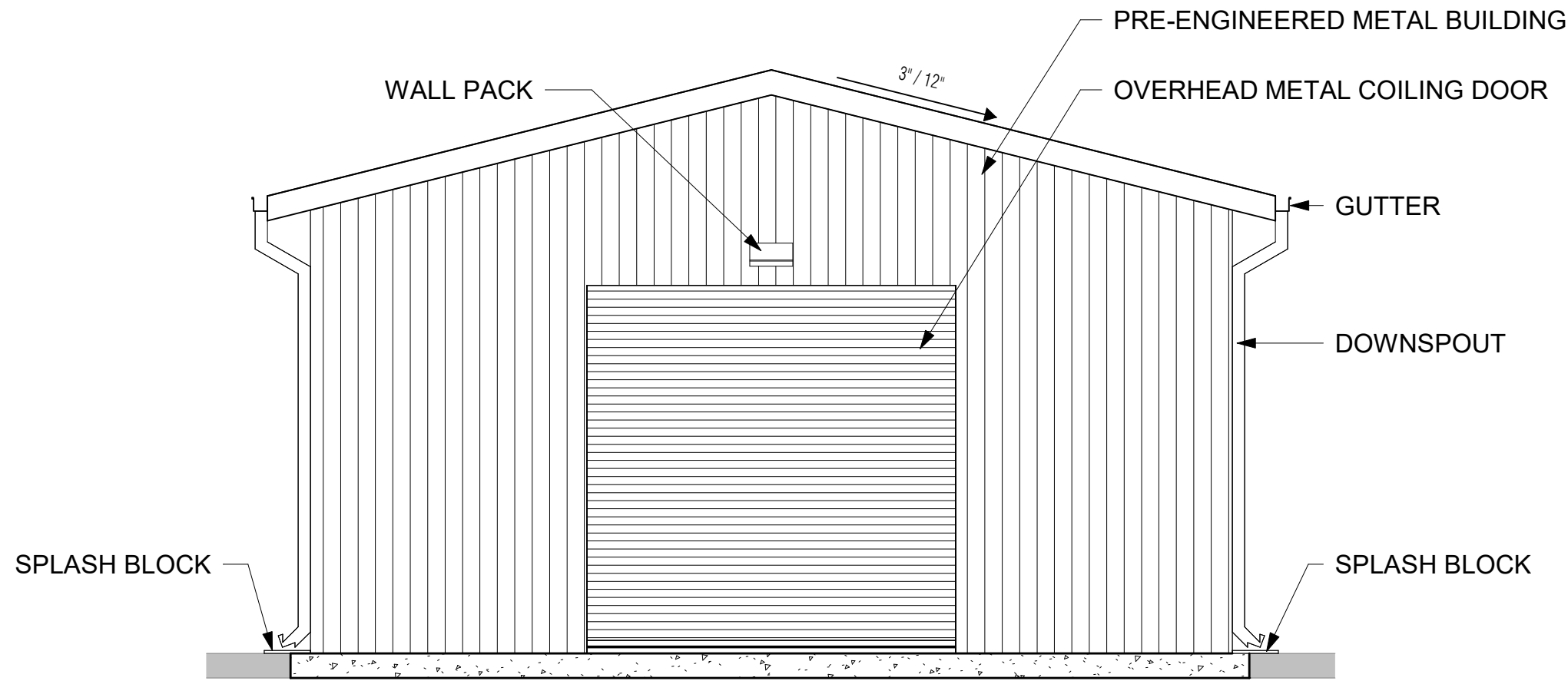
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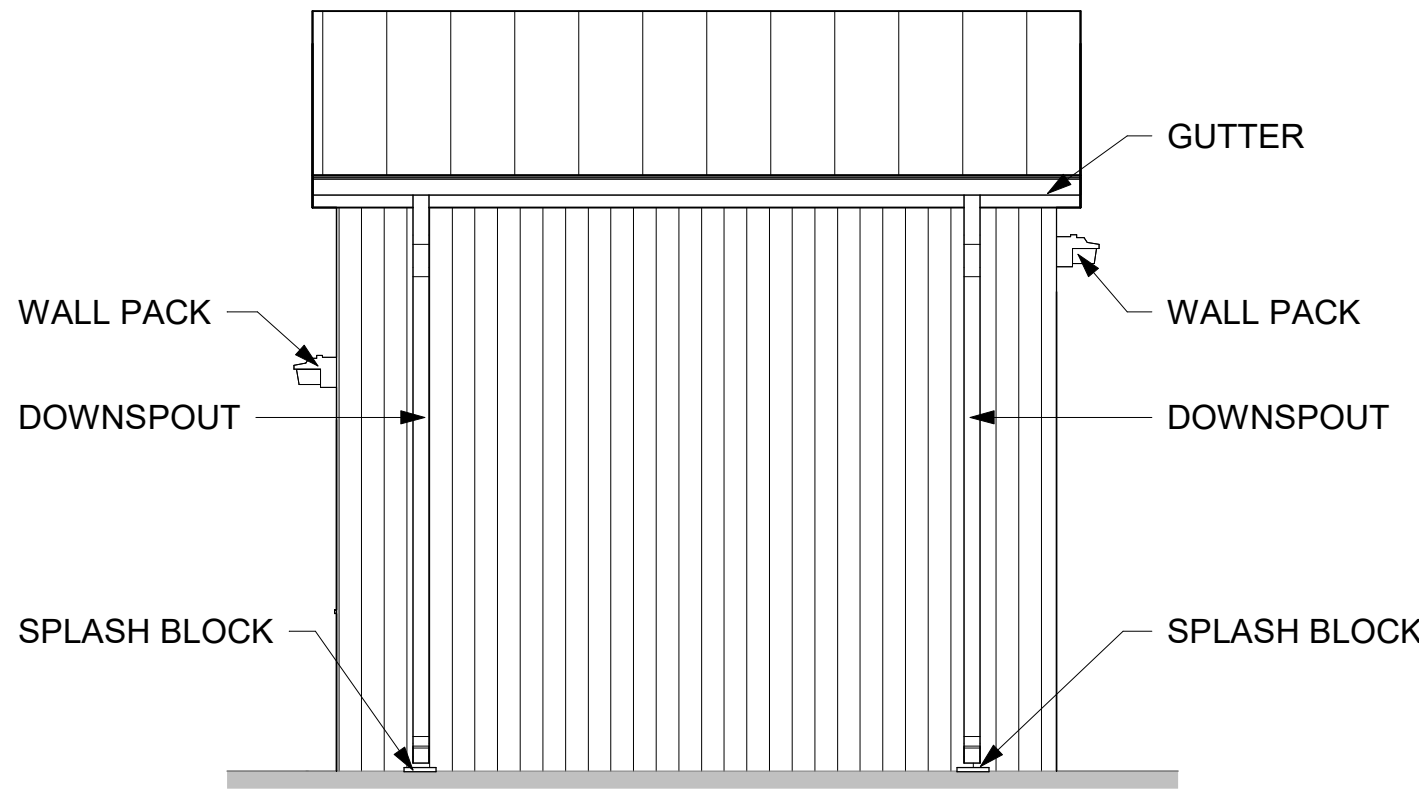
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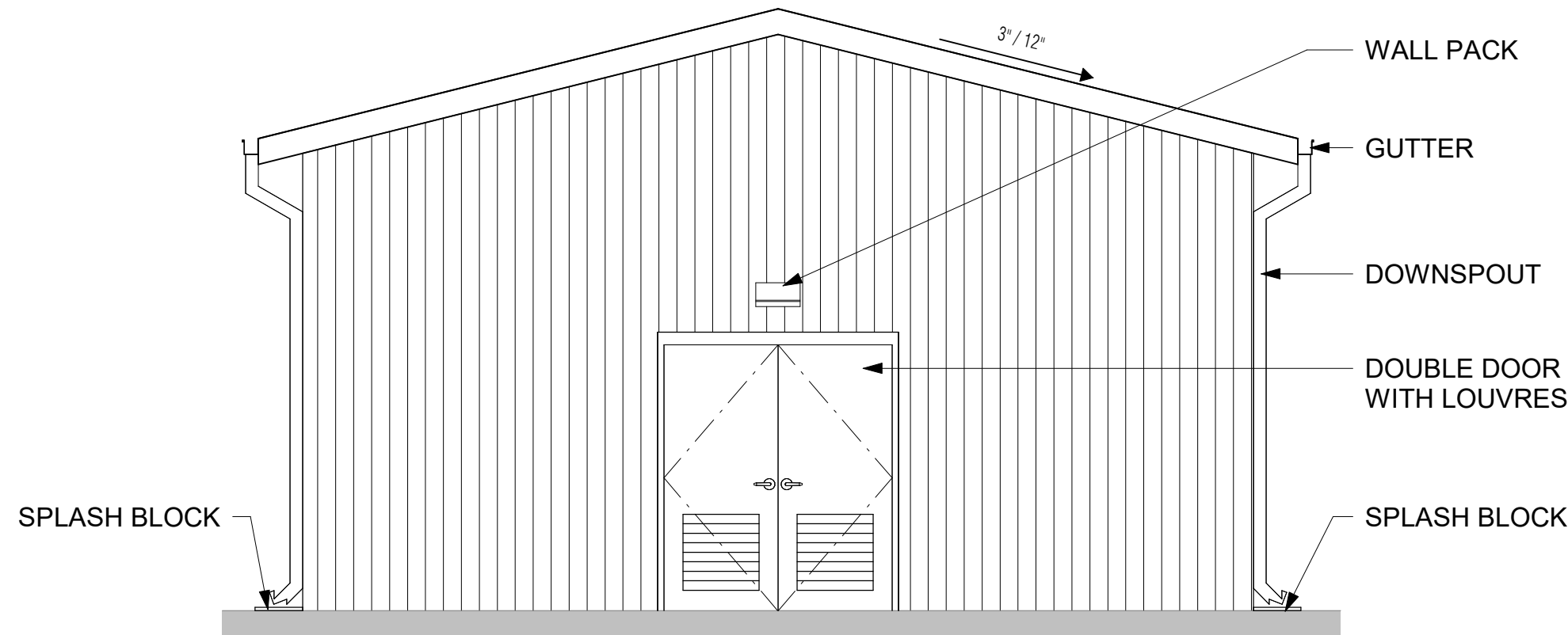
1 ADD./ALT. - STORAGE BUILDING - PLAN - TYP.
SCALE: 1/4" = 1'-0"



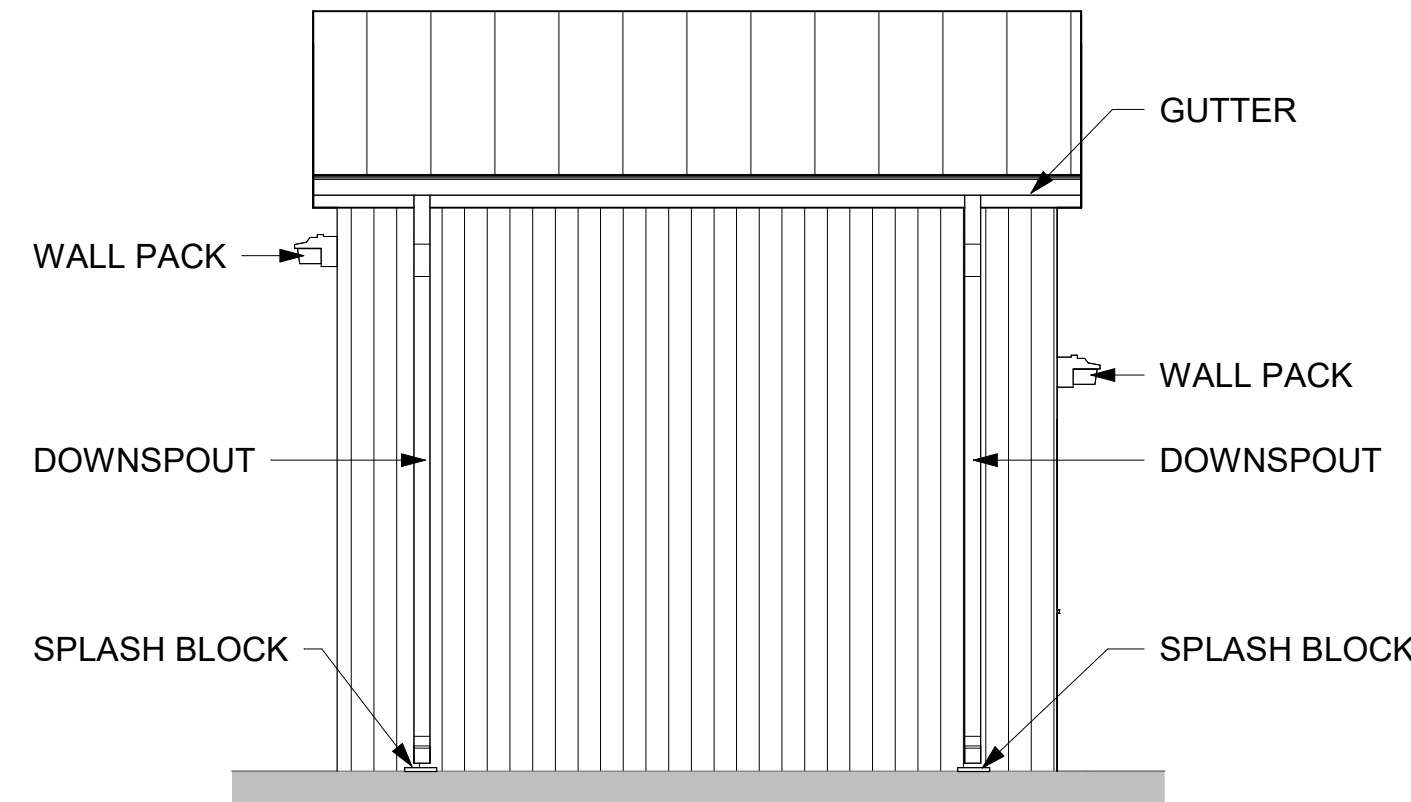
2 STORAGE BUILDING ELEVATION - A
SCALE: 1/4" = 1'-0"



3 STORAGE BUILDING ELEVATION - B
SCALE: 1/4" = 1'-0"

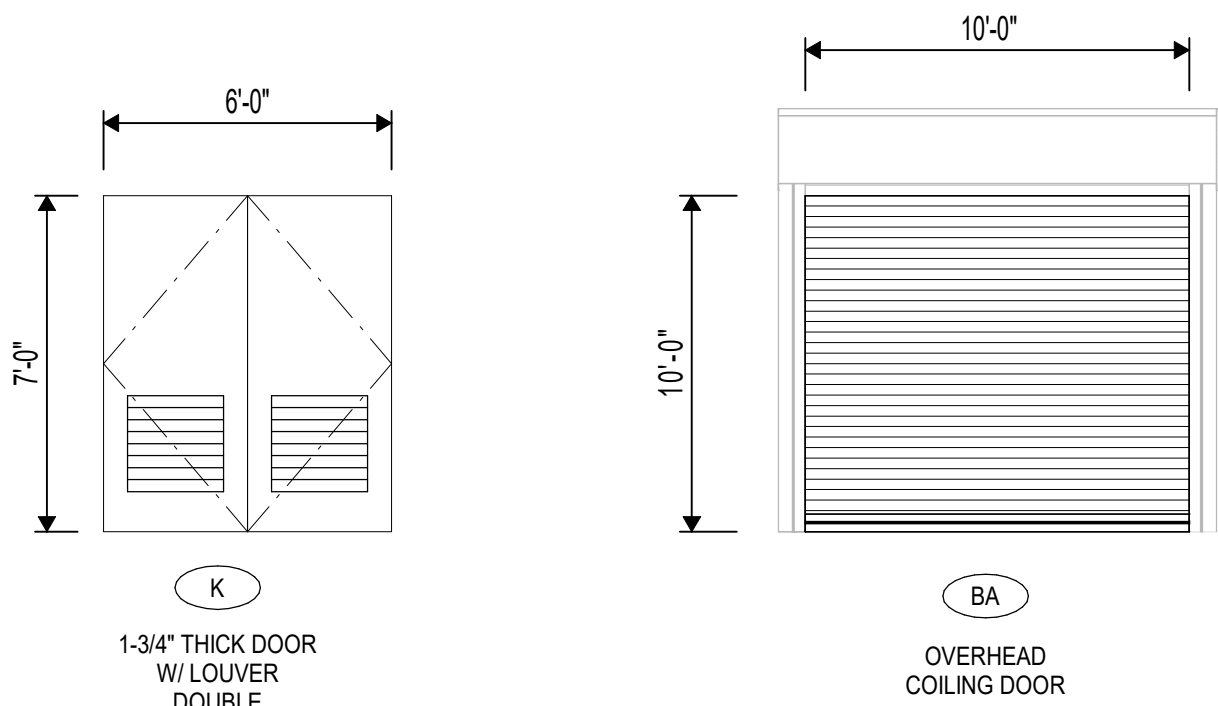


4 STORAGE BUILDING ELEVATION - C
SCALE: 1/4" = 1'-0"



5 STORAGE BUILDING ELEVATION - D
SCALE: 1/4" = 1'-0"

DOOR MASTER SCHEDULE						
DOOR NO.	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	DOOR OPENING		REMARKS
				WIDTH	HEIGHT	
100	BA	16	STL.	10'-0"	10'-0"	REFER TO SITE PLAN FOR DOOR QUANTITIES
200	K	4	HM.	6'-0"	7'-0"	REFER TO SITE PLAN FOR DOOR QUANTITIES



6 DOOR TYPES
SCALE: 1/4" = 1'-0"

DOOR MATERIAL NOTES	
MARK	PANEL MATERIAL
1	Plastic Laminate
2	Stained Wood
3	Painted Wood
4	Painted Hollow Metal
5	Painted Metal Sound Control Door & Frame
6	Painted Metal Tornado-Resistant Door & Frame
7	Stainless Steel on Plywood
8	Wire Mesh
9	Aluminum & Glass - Wide Stile Storefront
10	Aluminum & Glass - Medium Stile Storefront
11	Aluminum & Glass - Non-Storefront Interior
12	Stainless Steel & Glass
13	Insulated Painted Steel - Manual
14	Insulated Painted Steel - Motorized
15	Insulated Painted Steel Tornado & Hurricane Resistant - Motorized
16	Non-Insulated Painted Steel - Manual
17	Non-Insulated Painted Steel - Motorized
18	Non-Insulated Painted Steel, Tornado & Hurricane Resistant - Motorized
19	Non-Insulated Stainless Steel - Manual
20	Non-Insulated Stainless Steel - Motorized



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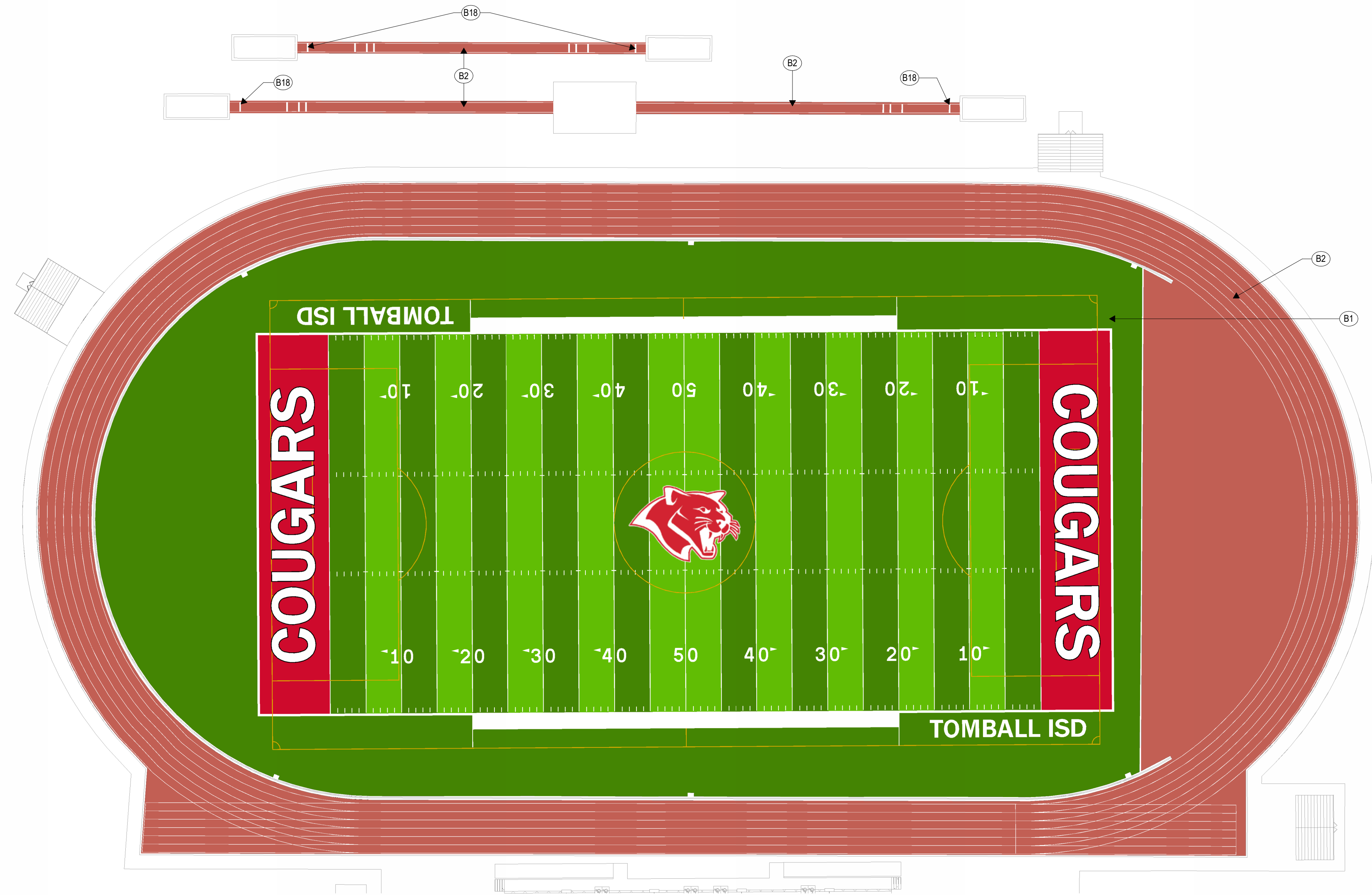
25-0158.00

SHEET TITLE

STORAGE BUILDING TYP. -
ENLARGED PLANS AND
ELEVATIONS

SHEET NO.

A1.22



KEYNOTES - CPJHS	
MARK	DESCRIPTION
B1	SYNTHETIC TURF INSTALL/REPLACEMENT
B2	TRACK RESURFACING/RESTRIPING AT EXISTING RUNWAYS
B18	NEW "TAKE OFF" BOARDS PER SPECIFICATIONS AND DETAIL

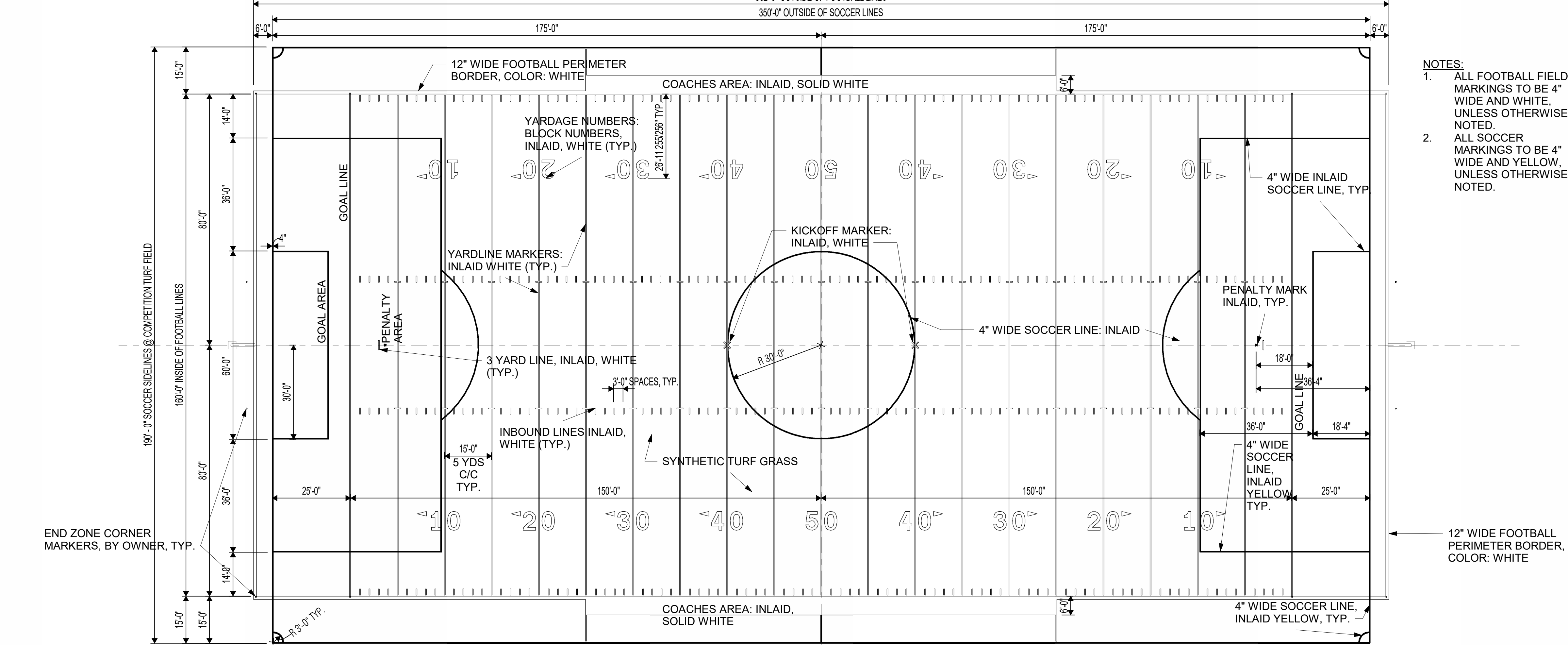


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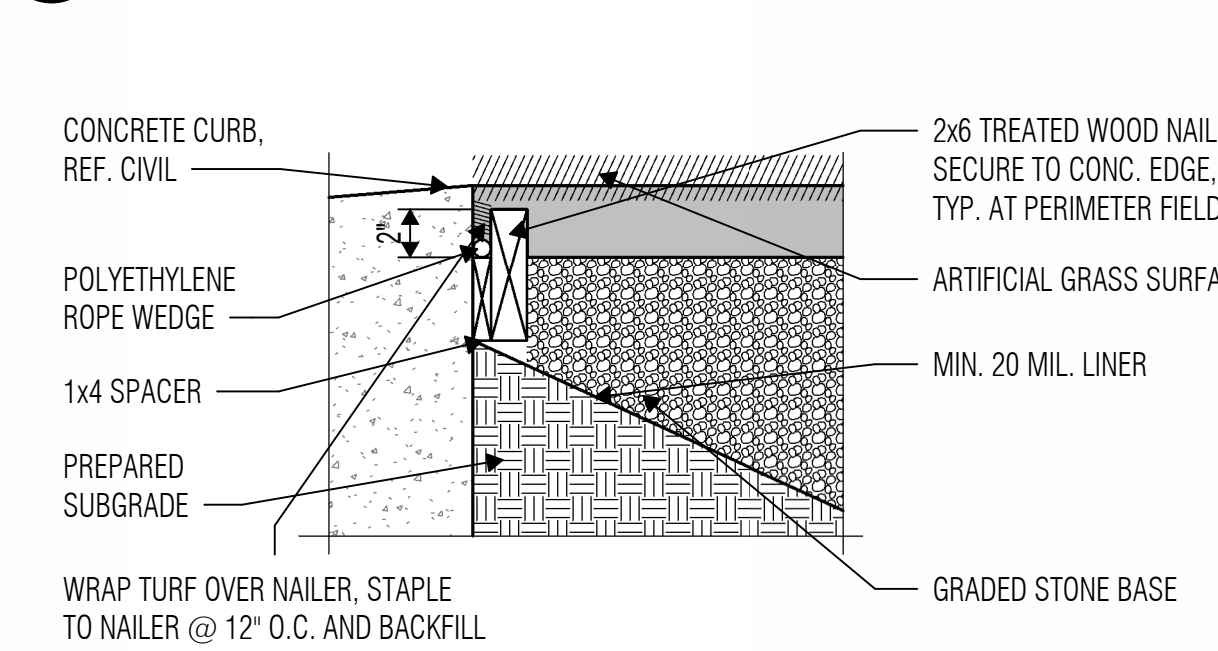
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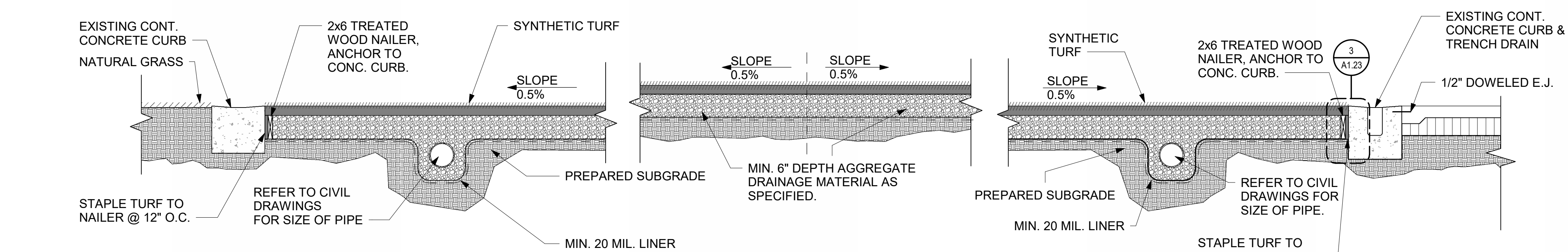
1 TURF DESIGN - CREEKSIDE PARK JHS - TURF OPTION
SCALE: 1" = 30'-0"



2 CPJHS - TYPICAL TURF STRIPING PLAN
SCALE: 1" = 20'-0"



3 CPJHS - DETAIL AT EDGE OF TURF - TYP.
SCALE: 1 1/2" = 1'-0"



4 CPJHS - TURF SECTION DETAIL TYP.
SCALE: 1/2" = 1'-0"

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SHEET TITLE

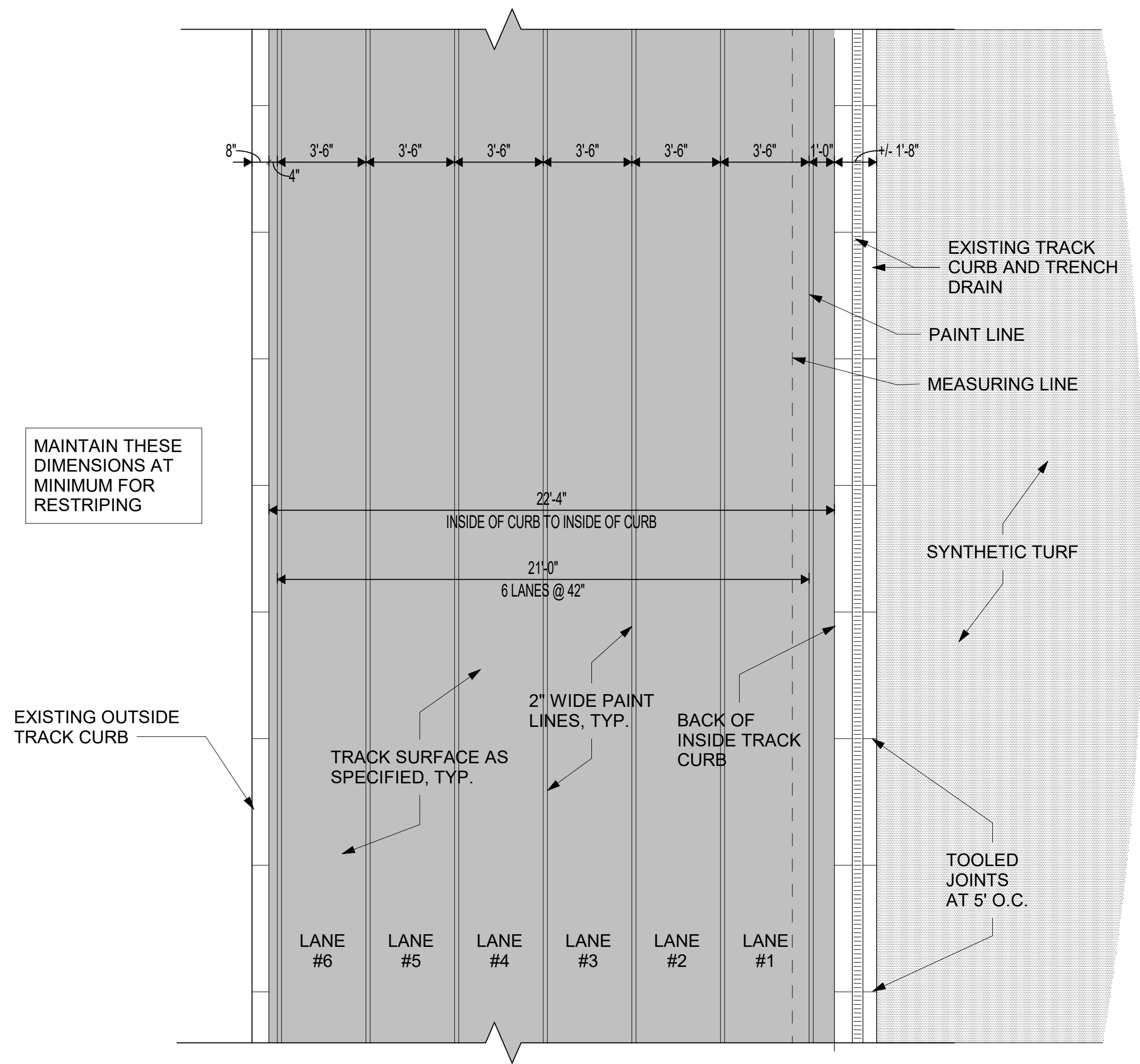
CREEKSIDE PARK JHS -
TURF DESIGN

SHEET NO.

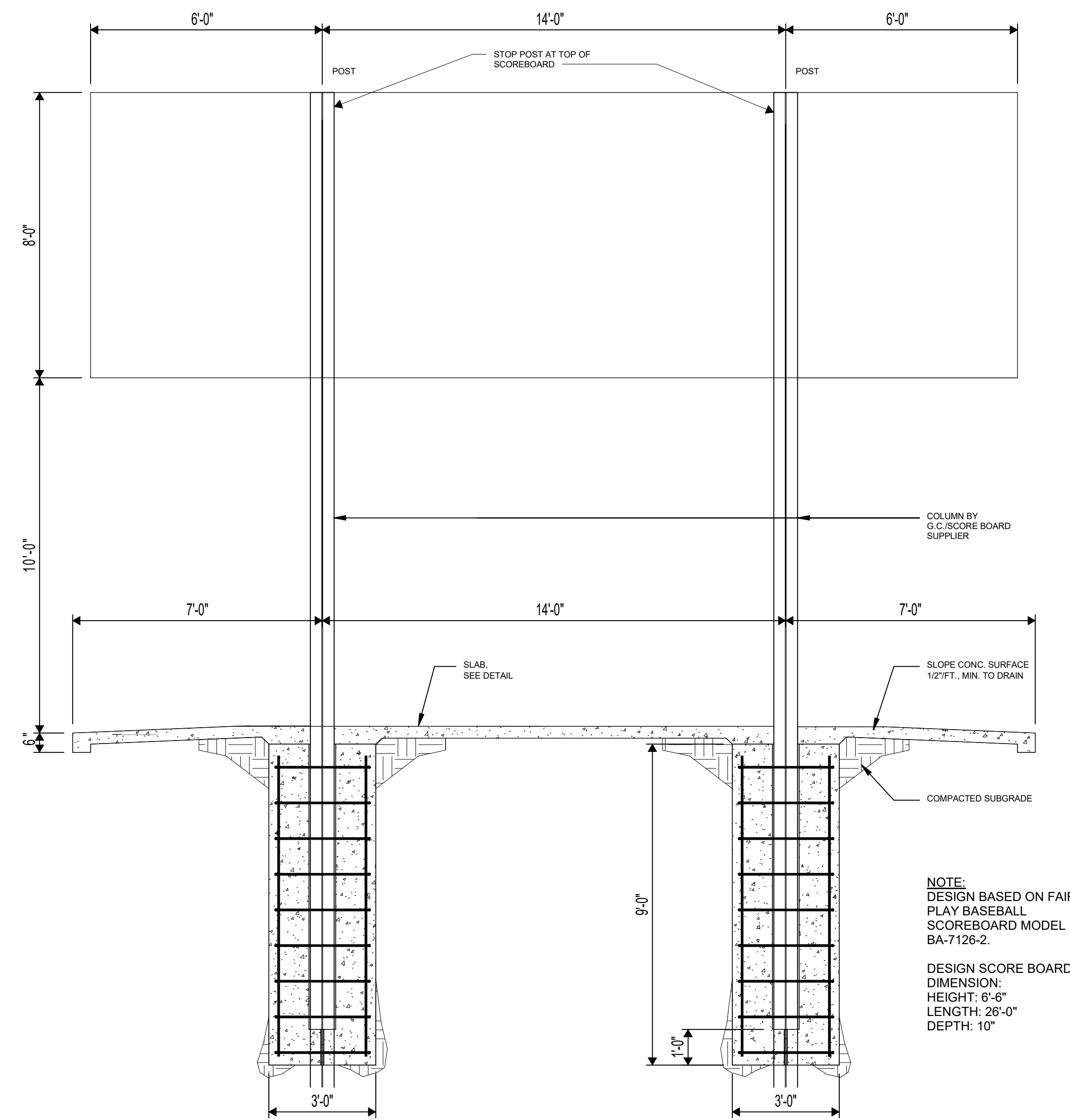
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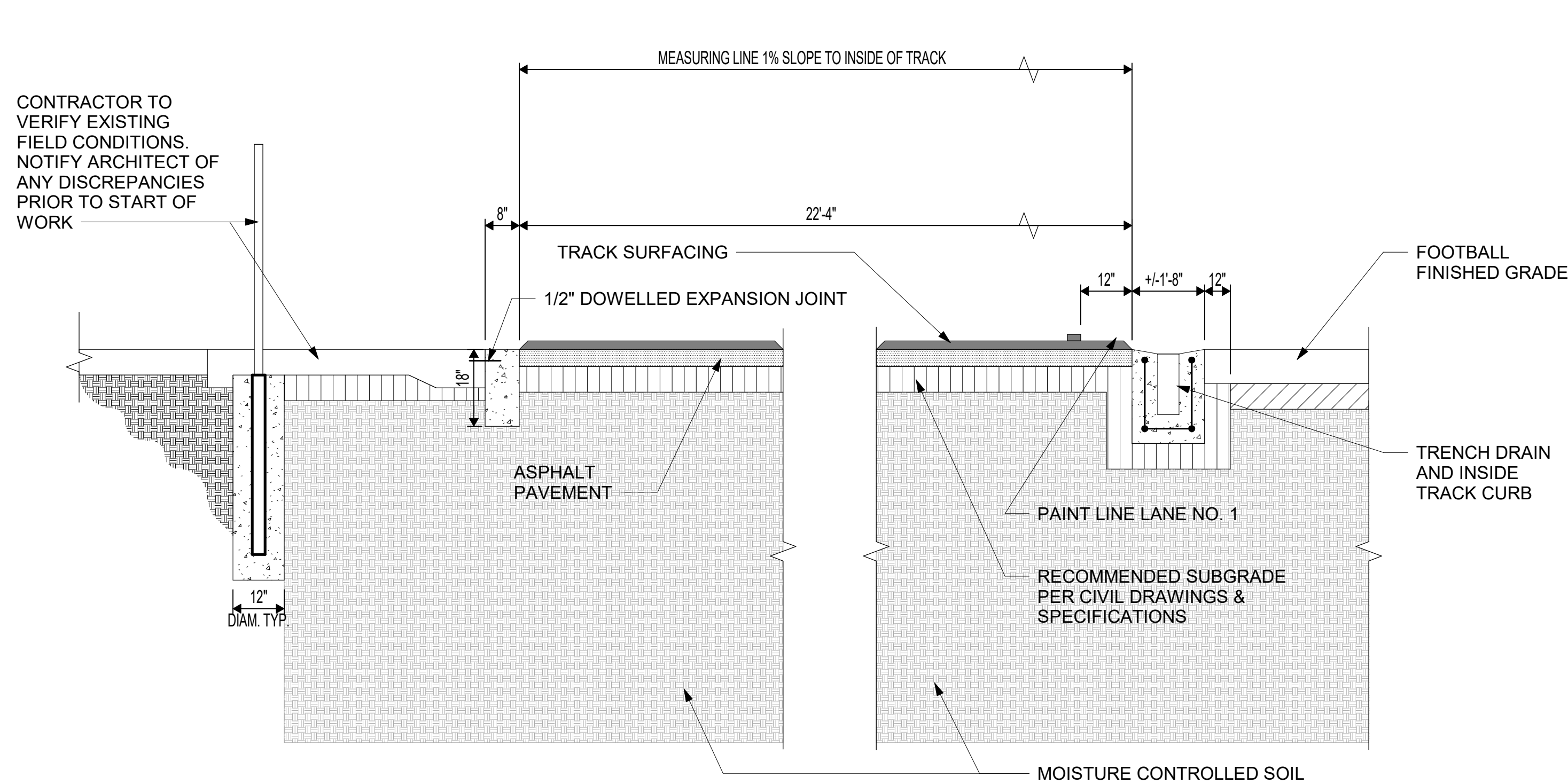
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1 CPJHS - TRACK STRIPING PLAN TYP.
SCALE: 1/4" = 1'-0"

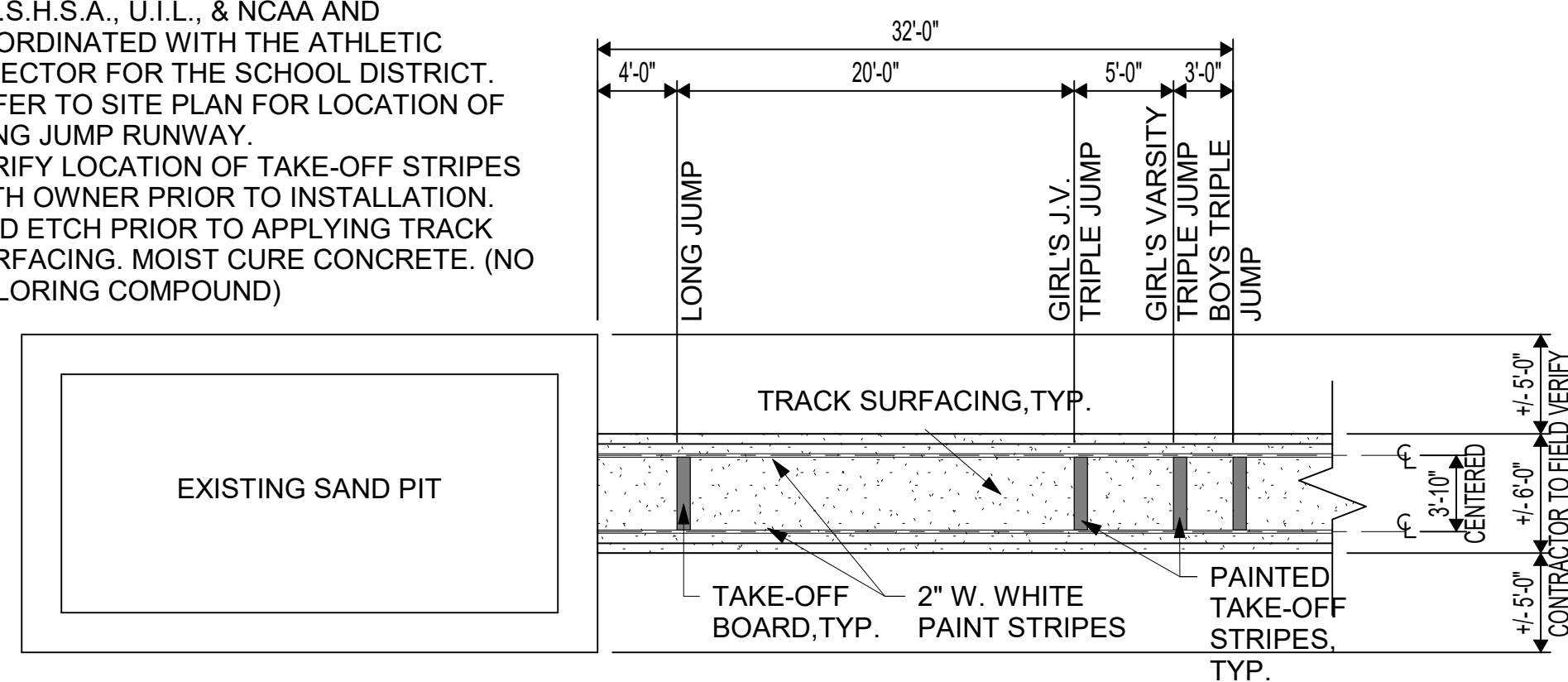


6 CPJHS - SCOREBOARD DETAIL
SCALE: 3/8" = 1'-0"

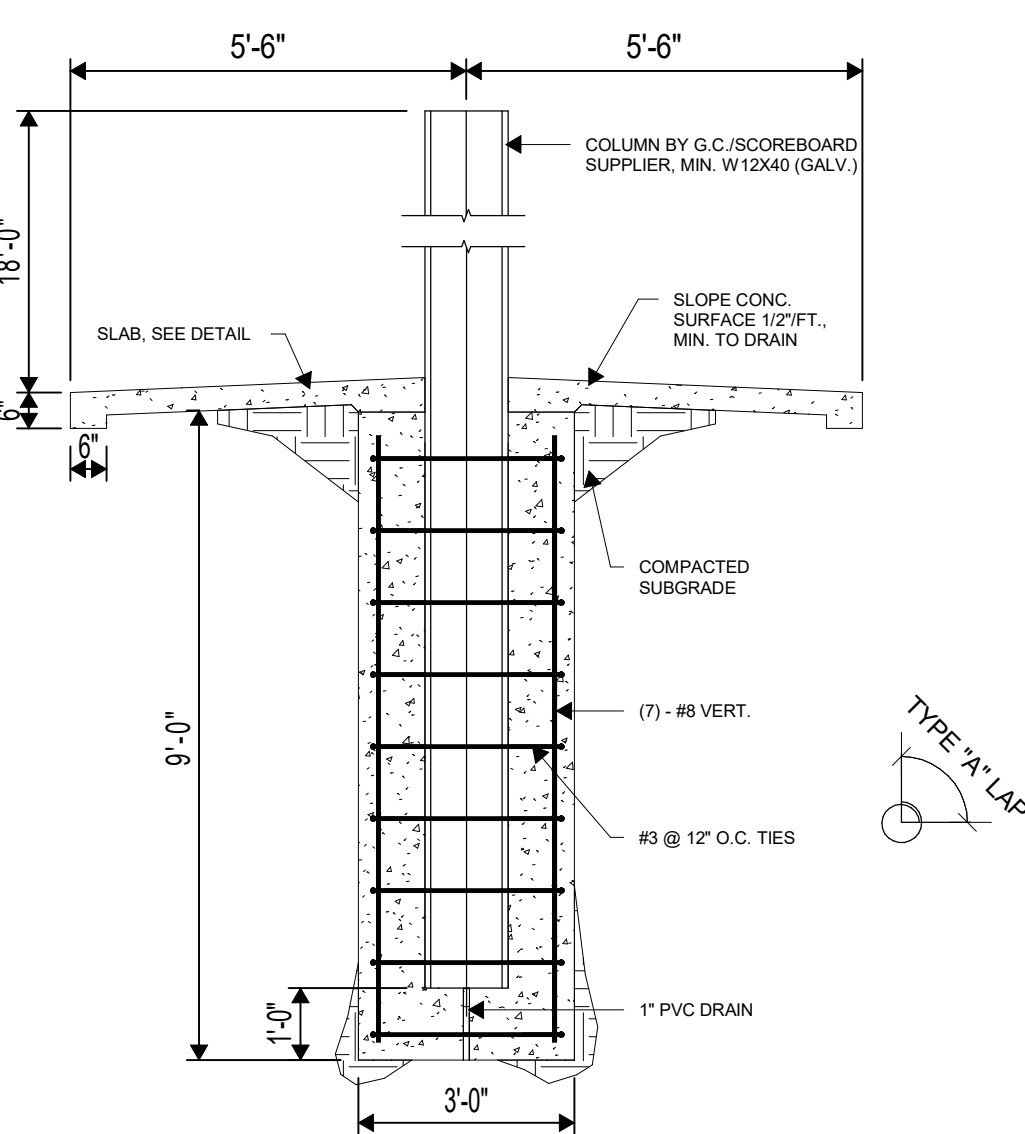


2 CPJHS - TRACK SECTION TYP.
SCALE: 1/2" = 1'-0"

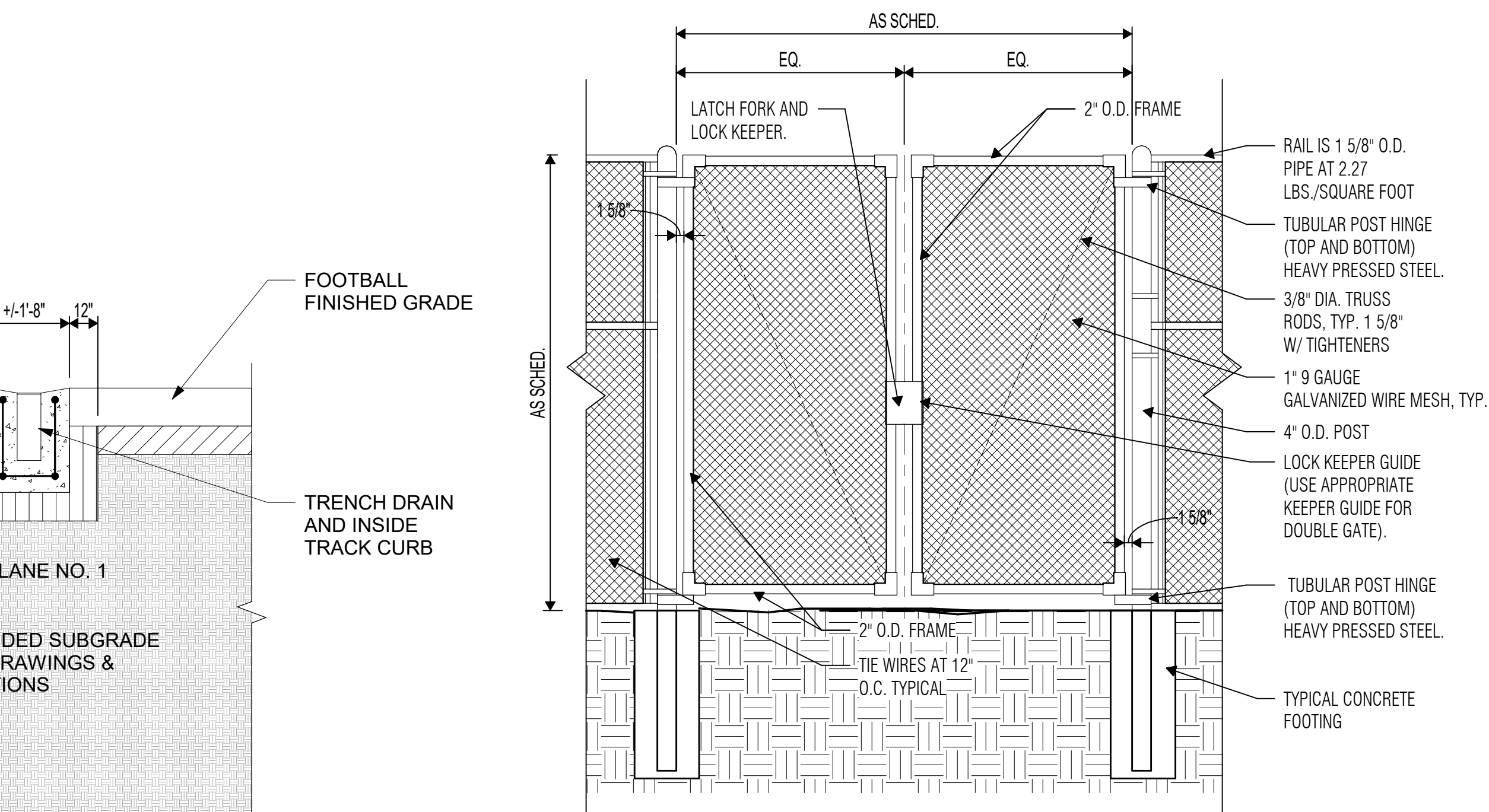
- NOTES:
- ALL RUNWAY MARKINGS SHALL BE PER N.F.S.H.S.A., U.I.L., & NCAA AND COORDINATED WITH THE ATHLETIC DIRECTOR FOR THE SCHOOL DISTRICT. REFER TO SITE PLAN FOR LOCATION OF LONG JUMP RUNWAY.
 - VERIFY LOCATION OF TAKE-OFF STRIPES WITH OWNER PRIOR TO INSTALLATION. ACID ETCH PRIOR TO APPLYING TRACK SURFACING. MOIST CURE CONCRETE. (NO COLORING COMPOUND)



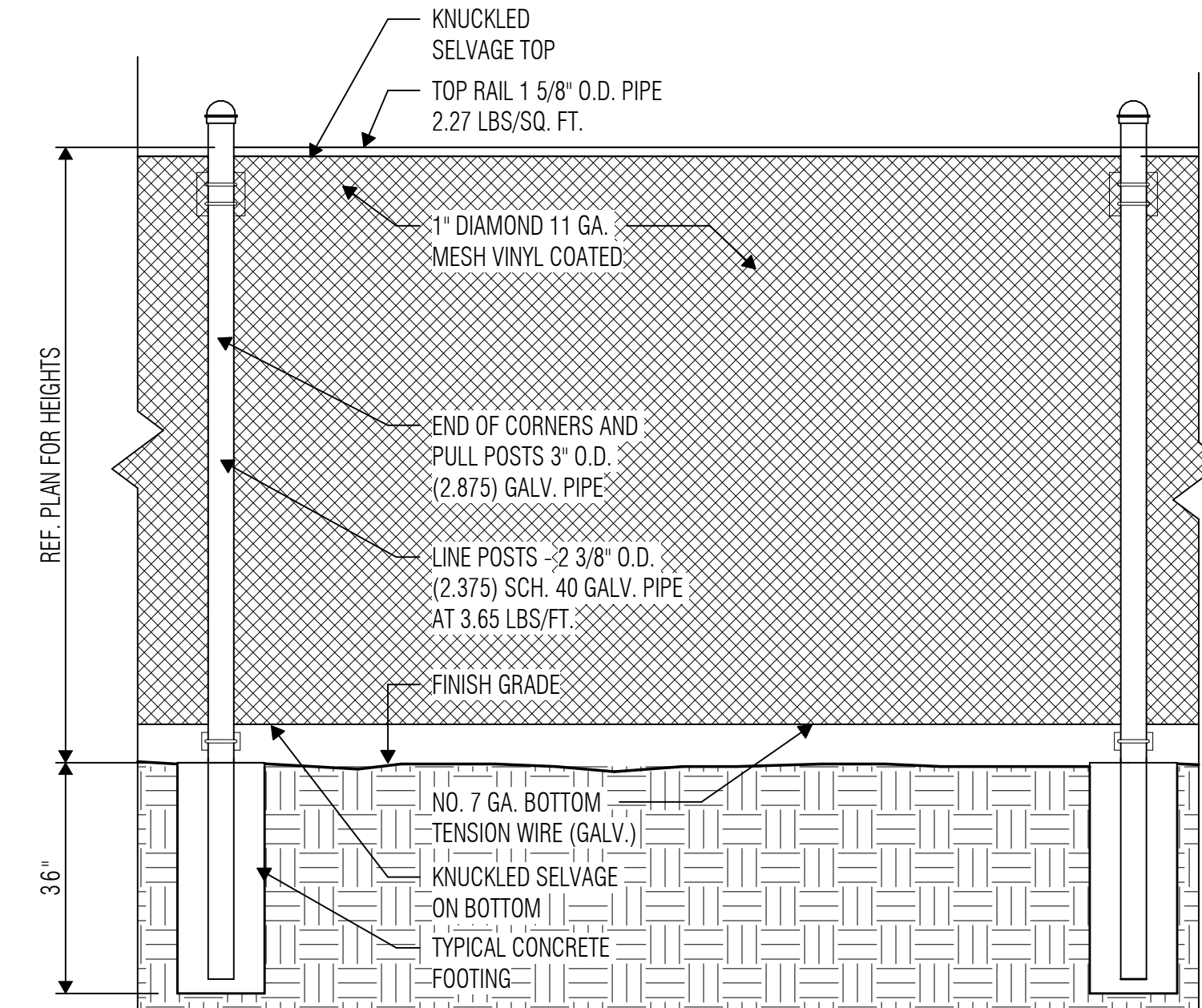
3 CPJHS - LONG JUMP PIT AND RUNWAY - PLAN
SCALE: 1/8" = 1'-0"



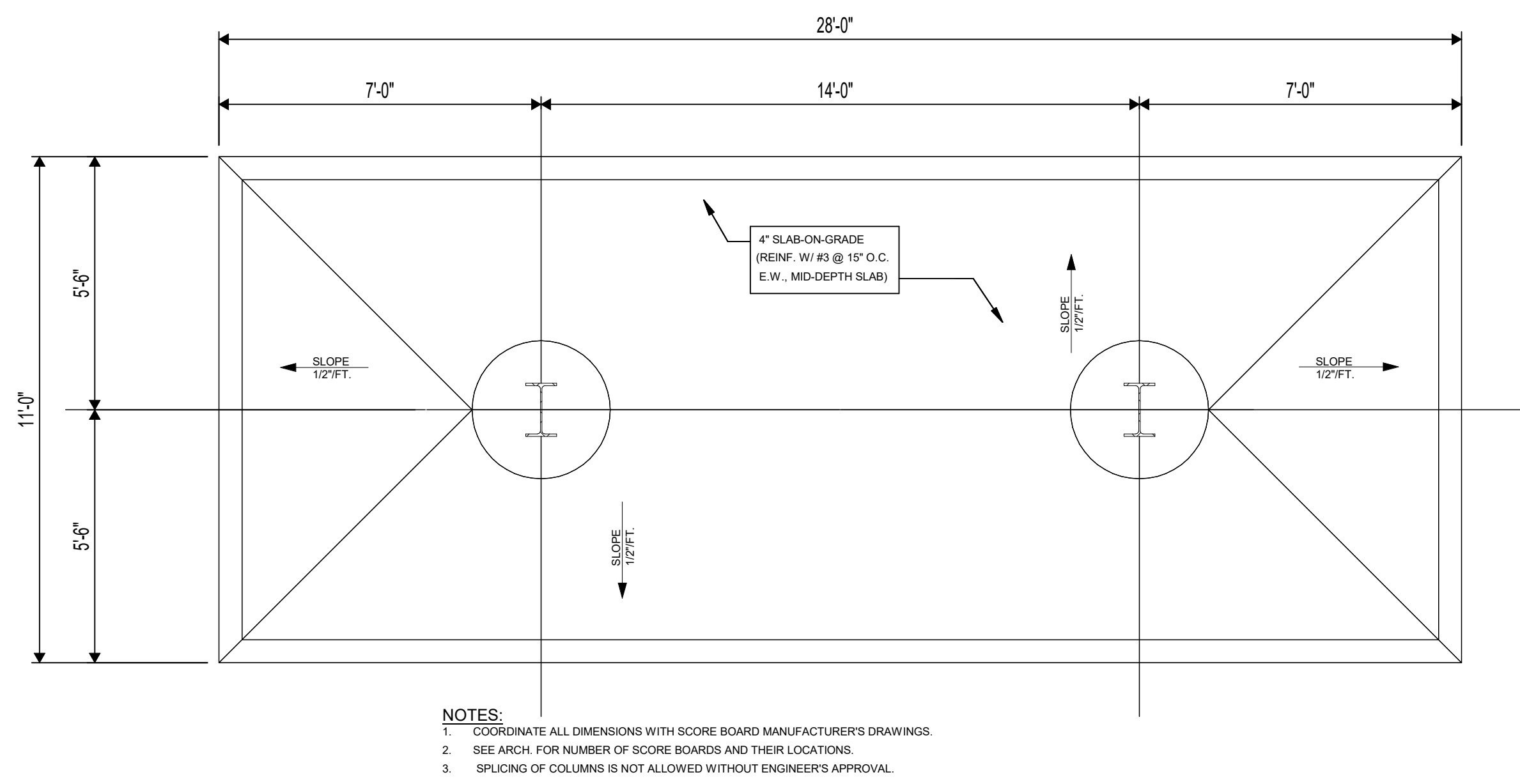
7 CPJHS - SCOREBOARD FOUNDATION DETAIL
SCALE: 3/8" = 1'-0"



4 CPJHS - CHAIN LINK 4' DOUBLE SWING GATE
SCALE: 1/2" = 1'-0"



5 CPJHS - CHAIN LINK FENCE
SCALE: 1/2" = 1'-0"



8 CPJHS - SCOREBOARD FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



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SHEET TITLE

ARCHITECTURAL SITE
PLAN DETAILS

SHEET NO.

A1.31

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GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES. THE CODES LISTED SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.
- 2021 EDITION OF THE INTERNATIONAL BUILDING CODE
2. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL AND ARCHITECTURAL CONTRACT DOCUMENTS THE STRICTEST REQUIREMENTS SHALL GOVERN.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES FROM ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
4. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE CUT AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.
5. DO NOT SCALE THE DRAWINGS.
6. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
7. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDUMS AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, AND CONSTRUCTION EQUIPMENT. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
10. IT IS THE DESIGN INTENT FOR ALL CONCRETE POURS TO HAPPEN IN SEQUENTIAL ORDER FROM FOUNDATIONS THROUGH ROOF. THE GENERAL CONTRACTOR SHALL DISCUSS WITH THE A/E TEAM THE FEASIBILITY OF NON-SEQUENTIAL POURING OF CONCRETE AND ITS IMPACT ON THE DESIGN INTENT AND ALLOW SUFFICIENT TIME FOR SUCH SCHEME TO BE INVESTIGATED OR REVISED.
11. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
12. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.
13. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.
14. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL DETAILS AND TYPICAL DETAILS, WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
15. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS, SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSION AREAS, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF FINISHES, DOOR AND ROOF FINISHES, STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING AND EXTERIOR WALL ASSEMBLIES.

16. SEE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS, ETC., EXCEPT AS SHOWN OR NOTED OTHERWISE ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.

DESIGN CRITERIA

1. DEAD LOAD MATERIALS ASSUMED IN THE DESIGN ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD. WHEREVER PARTITIONS ARE USED AND LOCATION SUBJECT TO CHANGE EXCLUDING PUBLIC LOBBIES, CORRIDORS, RESTROOMS, AND PLACES OF PUBLIC ASSEMBLY.
3. LIVE LOADS:
- | LOCATION | UNIFORM LOAD | CONCENTRATED LOAD |
|-------------------------------|--|-----------------------|
| ROOF | 20 PSF REDUCIBLE | 300 LBS |
| GROUND FLR. (STORAGE - LIGHT) | 125 PSF UNREDUCIBLE | |
| HANDRAILS AND GUARDRAILS | 50 PLF OR 200 LBS APPLIED AT TOP RAIL IN ANY DIRECTION. 50 LBS IN ANY DIRECTION APPLIED AT INTERMEDIATE RAILS. | |
| GRAB BARS | | 250 LBS ANY DIRECTION |
4. WIND LOADS
- | ULTIMATE WIND SPEED | 126 MPH (3-SEC GUST) |
|--------------------------|----------------------|
| NOMINAL WIND SPEED | 98 MPH (3-SEC GUST) |
| RISK CATEGORY | II |
| EXPOSURE CATEGORY | C |
| INTERNAL PRESSURE COEFF. | +/- 0.18 |
| COMPONENTS & CLADDING | SEE DIAGRAM |
5. SEISMIC LOADS
- | RISK CATEGORY | II |
|--------------------------------|-------|
| SITE CLASS | D |
| IMPORTANCE FACTOR | 1.00 |
| MAPPED ACCELERATION PARAMETERS | |
| SS | 0.083 |
| S1 | 0.045 |
| SPECTRAL RESPONSE COEFFICIENTS | |
| SDS | 0.11 |
| SD1 | 0.1 |
| SEISMIC DESIGN CATEGORY | A |
6. SNOW LOADS
- | GROUND SNOW LOAD | 5.0 PSF |
|-------------------|---------|
| EXPOSURE FACTOR | 0.9 |
| IMPORTANCE FACTOR | 1.0 |
| THERMAL FACTORS | 1.0 |
7. HANDRAILS, GUARDRAILS AND GRAB BARS (INCLUDING ATTACHMENT TO STRUCTURE) SHALL BE DESIGNED FOR THE LOADS INDICATED IN THE REFERENCED BUILDING CODE. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY:
- | COMPANY | UES |
|------------|----------------|
| REPORT NO. | H20940 |
| DATED | MARCH 26, 2026 |
- ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE FOLLOWED.
2. THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING
- | ALLOWABLE BEARING PRESSURE | 7500 PSF |
|----------------------------|----------|
| SUSTAINED LOADS | 3750 PSF |
| TOTAL LOADS | |
3. THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR FOR REVIEW OF FOUNDATION BEARING SURFACE, INSPECTION OF FOUNDATION INSTALLATION, AND PLACEMENT OF REINFORCING STEEL. THE CONTRACTOR SHALL NOT PLACE CONCRETE WITHOUT INSPECTOR'S APPROVAL.
4. THE CONTRACTOR SHALL NOTIFY THE AUTHORIZED INSPECTOR 48 HOURS IN ADVANCE OF ANY MAJOR FOUNDATION POUR.
5. FORM EXPOSED FACES OF GRADE BEAMS.
6. GRADE BEAM BOTTOM STEEL SHALL BE CHAIRED AT 5 FOOT MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3 INCH BOTTOM COVER TO REINFORCING STEEL. BEAM BOLSTERS USED SHALL BE INTENDED FOR SUPPORT ON SOIL.
7. BOTTOM BARS OF GRADE BEAM SHALL BE SPLICED (WHERE REQUIRED) AT THE PIERS ONLY. TOP BARS SHALL BE SPLICED (WHERE REQUIRED) AT THE MIDSPAN OF THE GRADE BEAMS. LAP LENGTH SHALL BE 44 TIMES BAR DIAMETER UNLESS SPECIFIED OTHERWISE. PROVIDE CORNER BARS TO MATCH TOP AND BOTTOM STEEL.
8. ALL REINFORCING STEEL FOR SLABS SHALL BE CHAIRED WITH SLAB BOLSTERS FOR SUPPORT ON SOIL AT 4'-0" MAXIMUM CENTERS EACH WAY FOR REINFORCING FOR SLABS. DEPTH OF CHAIRS SHALL PROVIDE COVER TO REINFORCING AS NOTED ON PLANDDETAILS.
9. SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 302.1R. PROVIDE (3) #3 X 4'-0" TOP AND BOTTOM AT ALL SLAB ON GRADE RE-ENTRANT CORNERS.
10. SUBGRADE PREPARATION SHALL CONFORM TO THE SOILS REPORT NOTED ABOVE. IF REPORT DOES NOT SPECIFY THE AMOUNT OF SELECT FILL, PROVIDE FILL AS REQUIRED ABOVE TO REDUCE PVR TO 1 INCH.
11. VAPOR RETARDER SHALL HAVE NO MORE THAN 0.01 PERMS AS TESTED BEFORE AND AFTER MANDATORY CONDITIONING (ASTM E 1745 SECTION 7.1 AND SUB-PARAGRAPHS 7.1.2-5). MEET OR EXCEED THE REQUIREMENTS OF ASTM E 1745 CLASS A AND BE NO LESS THAN 15 MILS THICK.
12. ALL VAPOR RETARDER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND TAPED WITH MANUFACTURER'S TAPE. ALL PENETRATIONS, BLOCK-OUTS, AND OPENINGS SHALL BE SEALED USING A COMBINATION OF THE VAPOR RETARDER, MASTIC AND MANUFACTURER'S TAPE. DO NOT PENETRATE VAPOR RETARDER WITH FORMWORK STAKES. USE STEGO BEAST FORM STAKES OR EQUIVALENT WHERE REQUIRED.
13. REMOVE ALL CONCRETE, TREES, STUMPS, BRUSH, DEBRIS, SEPTIC TANKS, ABANDONED STRUCTURES, ROOTS, VEGETATION, RUBBISH AND ANY OTHER UNDESIRABLE MATTER SHOULD BE REMOVED AND PROPERLY DISPOSED THE CONSTRUCTION AREA.
14. SCARIFY THE SUBGRADE, ADD MOISTURE, OR DRY AS NECESSARY AND RECOMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).
15. THE SUBGRADE AREAS SHALL THEN BE PROOF-ROLLED WITH HEAVY EQUIPMENT. ANY SOLS DEFLECTING EXCESSIVELY UNDER MOVING LOADS SHALL BE UNDERCUT TO FIRM SOLS AND RECOMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION OF SUBGRADE SOLS SHALL BE BETWEEN OPTIMUM AND 4% ABOVE OPTIMUM MOISTURE CONTENT.
16. STRUCTURAL FILL BENEATH THE BUILDING AREA SHALL CONSIST OF SELECT FILL WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 8 AND 20. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE BETWEEN OPTIMUM AND 4% ABOVE OPTIMUM MOISTURE CONTENT.
17. SEE GEOTECH REPORT FOR MINIMUM DEPTH OF SELECT FILL UNDER BUILDING SLAB TO SEPARATE BUILDING SLAB FROM THE EXISTING GRADE. REMOVE EXISTING GRADE AS REQUIRED. CONTRACTOR SHALL RETAIN A TESTING LABORATORY FOR THE DETERMINATION OF SOIL COMPACTION AND CONCRETE TESTING. SUBMIT RESULTS TO ARCHITECT.
18. THE CONTRACTOR SHALL ENSURE THE SELECT FILL MATERIAL IS PROPERLY MIXED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND TESTING LAB AND SHALL MAKE PROVISIONS FOR SOIL PULVERIZATION OR OTHER MIXING METHODS AS REQUIRED.
19. THE BEARING STRATUM OF EACH SPREAD FOOTING AND ALL STRIP FOOTINGS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR PRIOR TO POURING OF CONCRETE.
20. PROVIDE AND INSTALL 1/8 INCH STEEL TEMPLATES TO ACCURATELY SET ANCHOR BOLTS FOR STEEL COLUMNS.
21. FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP OF FOOTING WITH LEAN CONCRETE OR CEMENT STABILIZED SAND. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. EXCAVATIONS SHALL NOT BE LEFT OVERNIGHT UNLESS A 2 INCH UNREINFORCED SEAL (MUD) SLAB IS PLACED AT THE BOTTOM OF THE FOOTING EXCAVATION. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH COMPACTED FILL, CEMENT STABILIZED SAND, OR CONCRETE AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL MATERIAL, IF USED, SHALL BE COMPACTED IN 6 INCHES MAXIMUM LOOSE LIFTS TO A MINIMUM 95% OF STANDARD PROCTOR DENSITY (ASTM D 698) UNLESS SPECIFIED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

CONCRETE

1. ALL ASPECTS OF WORK RELATING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
- CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- CURRENT EDITION OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
- CRSI MANUAL OF STANDARD PRACTICE
2. STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTHS AND TYPES ARE AS FOLLOWS:
- | LOCATION | STRENGTH | TYPE | AGGREGATE | EXPOSURE |
|---------------|----------|-----------|-----------|----------------|
| | | | CLASS | CLASS |
| FOUNDATIONS | 3000 PSI | NORMAL WT | 1 1/2" | F0, S0, W0, C0 |
| GRADE BEAMS | 3000 PSI | NORMAL WT | 1 1/2" | F0, S0, W0, C0 |
| SLAB-ON-GRADE | 3000 PSI | NORMAL WT | 1 1/2" | F0, S0, W0, C0 |
3. THERE SHALL BE NO HORIZONTAL COLD JOINT IN ANY CONCRETE POUR.
4. MIXTURES USED SHALL BE COMPATIBLE WITH FLOOR TREATMENTS. FINISH APPLICATOR SHALL APPROVE MIXTURES AND CURING COMPOUNDS PRIOR TO USE.
5. EXPOSURE CLASSES FOR FREEZING AND THAWING (F), SULFATE (S), WATER (W), AND CORROSION PROTECTION (C) HAVE BEEN PROVIDED. CONCRETE MIXES SHALL CONFORM TO ALL ACI 318 REQUIREMENTS BASED ON EXPOSURE CLASS, INCLUDING, BUT NOT LIMITED TO WATER CEMENT RATIO, COMPRESSION STRENGTH, AIR CONTENT, CEMENTITIOUS MATERIALS, CALCIUM CHLORIDE ADMIXTURES, AND WATER-SOLUBLE CHLORIDE ION CONTENT.
6. CONCRETE FOR SLAB-ON-GRADE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ADJUST CONCRETE STRENGTH BEYOND MINIMUM SPECIFIED ABOVE TO MAINTAIN MAXIMUM WATER-CEMENT RATIO.
7. CONCRETE FOR SLAB-ON-GRADE SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.04% (400 MICROSTRAINS) AT 28 DAYS OF DRYING. LENGTH CHANGE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C157.
8. FLY ASH CONFORMING TO ASTM C618, BE USED UNLESS NOTED OTHERWISE. THE MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF THE TOTAL CEMENTITIOUS MATERIAL BY WEIGHT.
9. AT POLISHED OR STAINED CONCRETE THE FLOOR FLATNESS (FF) SHALL BE 40 OR BETTER AND THE FLOOR LEVELNESS (FL) SHALL BE 30 OR BETTER UNLESS MORE STRINGENT REQUIREMENTS ARE PROVIDED IN THE SPECIFICATIONS.
10. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS.
11. CONCRETE FOR SLABS TO RECEIVE A HARD-TROWLED FINISH SHALL NOT CONTAIN AIR-ENTRAINING ADMIXTURES OR HAVE A TOTAL AIR CONTENT GREATER THAN 3 PERCENT.
12. SUBMIT SHOP DRAWINGS TO ARCHITECT AND ENGINEER INDICATING LOCATIONS OF CONCRETE JOINTS TO REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE THE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.
13. ROUGHEN CONCRETE SURFACES TO 1/4 INCH AMPLITUDE WHERE MASONRY WALLS REQUIREMENT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE.
14. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB-ON-GRADE, CONCRETE ON METAL DECK, FRAMED CONCRETE FLOORS, AND WALLS DO NOT REQUIRE SLEEVES UNLESS NOTED OTHERWISE ON THE PROJECT SPECIFICATIONS. MECHANICAL OR ELECTRICAL DRAWINGS, IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CURING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE ARCHITECT AND ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED.
15. WITH THE EXCEPTION OF SLABS ON GRADE AND CONCRETE ON METAL DECK, THE OUTSIDE DIAMETER OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS (OTHER THAN 1/2" GAS PIPES) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS AND SHALL BE CENTERED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED. CONDUIT AND PIPE SHALL BE SPACED AT 3' OR 3 DIAMETERS ON CENTER, WHICHEVER IS GREATER.
16. FOR SLABS ON GRADE AND METAL DECK SLABS NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.
17. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND OTHER BRACING MAY BE SAFELY REMOVED.

REINFORCING STEEL

1. ALL ASPECTS OF WORK RELATING TO THE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
- CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- CRSI MANUAL OF STANDARD PRACTICE
2. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. YIELD STRENGTH 65,000 PSI. WELDED DEFORMED WIRE FABRIC FOR ASTM A497, YIELD STRENGTH 70,000 PSI. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS ONLY. WHEREVER WELDED WIRE FABRIC IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.
4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF LAP, WHICHEVER IS GREATER.
5. WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER OF RECORD. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF AWS D1.4.
6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
7. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING, AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.
8. IN ADDITION TO ALL OF THE REINFORCING STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF A NET HALF TON OF REINFORCING BARS TO BE FURNISHED, FABRICATED, AND PLACED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE ENGINEER OF RECORD.
9. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:
- | LOCATION OF CONCRETE | MINIMUM COVER |
|---|------------------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| CONCRETE EXPOSED TO EARTH OR WEATHER | |
| #6 THROUGH #18 BAR | 2" |
| #5 BAR AND SMALLER | 1 1/2" |
| CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS | 3/4" |
| BEAMS, COLUMNS (INCLUDING TIES) | 1 1/2" |
| SLAB ON GRADE | SEE DETAILS |
| PRESTRESSED CONCRETE | SEE IBC 1907.7.3 |

NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.
2. GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621. TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE 5,000 PSI. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1 INCH, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. GROUT SHALL BE PLACED AND HARDENED PRIOR TO POURING ANY ELEVATED CONCRETE FLOORS SUPPORTED ON THE ASSOCIATED COLUMN.
5. BASE PLATES SHALL BE LOCATED USING LEVELING NUTS OR SHIMS. SHIMS SHALL BE STEEL OR A PLASTIC COMPOSITE PRODUCT WITH COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE GROUT.
6. LEVELING NUTS MAY NOT BE USED WHERE ANCHOR RODS ARE DIRECTLY EMBEDDED IN SPREAD FOOTINGS. LEVELING NUTS MAY BE USED WHEN ANCHOR RODS ARE EMBEDDED IN PLINTHS SUPPORTED BY SPREAD FOOTINGS OR PIERS.
7. G. C. TO COORDINATE REQUIRED GROUT THICKNESS WITH SUBCONTRACTORS, IF A DIFFERENT GROUT THICKNESS THAN SHOWN ON THE DETAILS IS DESIRED SUBMIT REQUEST FOR ALTERNATE THICKNESS TO EOR.

PRE-ENGINEERED METAL BUILDING (PEMB)

1. ALL ROOF COMPONENTS INCLUDING PURLINS AND BUILDING FRAME SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER. ALL OTHER STEEL MEMBERS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER.
2. ALL DESIGNS SHALL CONFORM TO AISC, AISI AND MBMA STANDARDS (LATEST EDITION).
3. ALL ROOF DECK SYSTEMS SHALL CONFORM TO THE UL WIND-UPLIFT RATING OF CLASS 90.
4. ALL BUILDING FRAMES SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF H/40 UNDER LATERAL LOAD. H = HEIGHT OF BUILDING FRAME.
5. GIRTS SUPPORTING BRICK/CMU SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/600 (L = SPAN OF GIRT). MEMBERS SUPPORTING BRICK/CMU SHALL HAVE A VERTICAL DEFLECTION OF L/600.
6. ALL PURLINS SHALL BE DESIGNED FOR DEAD LOADS SHOWN ON ARCHITECTURAL DRAWINGS, INCLUDING MISCELLANEOUS FRAMING TO CARRY SUPERIMPOSED DEAD LOADS.
7. BUILDING FRAMES SHALL BE DESIGNED FOR THE LATERAL STABILITY OF THE BUILDING IN BOTH DIRECTIONS. EXAMINE THE CONSTRUCTION DOCUMENTS TO DETERMINE THE PREFERRED LOCATIONS OF LATERAL FRAMES. NO X-BRACES OR ROD BRACES ARE ALLOWED IN THE VERTICAL PLANE AT ANY LOCATIONS IN THESE DOCUMENTS.
8. FOUNDATION DESIGN IS BASED ON THE ROOF LOADINGS SPECIFIED BY THE MBMA AND ANY OTHER ADDITIONAL LOADS IMPOSED BY THE BUILDING USE. SUBMIT REACTIONS FROM METAL BUILDING FRAME AT LEAST 4 WEEKS PRIOR TO THE POURING OF THE FOUNDATION TO CONFIRM THE DESIGN OF FOOTINGS. GENERAL CONTRACTOR SHALL CONFIRM FOOTING SIZES WITH THE STRUCTURAL ENGINEER AFTER ACTUAL REACTIONS ARE RECEIVED FROM THE METAL BUILDING FRAME SUPPLIER. MODIFICATIONS TO FOUNDATION AND FOOTING SIZES RESULTING FROM SUCH REVIEW SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL BUILDING SUPPLIERS. NO ADDITIONAL COST PROPOSALS WILL BE ENTERTAINED.
9. SUBMIT SHOP DRAWINGS FOR BUILDING METAL BUILDING FRAMES, INCLUDING ALL CONNECTIONS. ALL SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
10. ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF AWS.
11. THE FOUNDATION HAS BEEN DESIGNED ASSUMING THAT RIGID FRAMES ARE PINNED AT THE BASE. THE FOOTINGS HAVE NOT BEEN DESIGNED FOR MOMENTS DUE TO FIXITY AT THE BASE.
12. THE METAL BUILDING MANUFACTURER SHALL TAKE INTO ACCOUNT LATERAL LOADS FOR BRACING PERIMETER/INTERIOR WALLS. THE TOP OF ALL WALLS SHALL BE BRACED BY THE METAL BUILDING STRUCTURE. PROVIDE STEEL MEMBERS AS REQUIRED.
13. THE METAL BUILDING MANUFACTURER SHALL REVIEW ALL PLANS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.) DETAILS AND SPECIFICATIONS AND MAKE PROVISIONS FOR THE SUPPORT OF ALL ELEMENTS DESIGNATED TO BE SUPPORTED OR BRACED BY THE STRUCTURE, INCLUDING ANY HANGING ELEMENTS FROM THE ROOF, PIPING, DUCTS, CLADDING/WALL SUPPORT, MEP ELEMENTS SUPPORT, ETC. SUCH WORK IS NOT IN MSES'S SCOPE OF WORK, ANY SUCH MISSING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL BUILDING SUPPLIER.
14. MATRIX STRUCTURAL ENGINEER'S SCOPE OF WORK IS STRICTLY FOR FOUNDATION DESIGN ONLY. ANY FRAMING SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE AND IS PROVIDED FOR THE CONVENIENCE OF THE METAL BUILDING MANUFACTURER. IF ADDITIONAL MOMENT FRAMES AND/OR BRACED BAYS ARE REQUIRED, PLEASE ADVISE THE MANUFACTURER. SUCH LOCATIONS WITH ARCHITECTURAL ELEMENTS RELATED TO STRUCTURAL FRAMING (INCLUDING MEZZANINES, SECOND FLOOR, STAIRS, HANDRAILS, ETC., LATERAL BRACING OF WALLS AND OTHER COMPONENTS) IS IN THE SCOPE OF THE GENERAL CONTRACTOR AND THE METAL BUILDING SUPPLIER.
15. ALL ANCHOR BOLTS SHALL BE SUPPLIED BY THE BUILDING MANUFACTURER. THE MINIMUM EMBEDMENT DEPTH INTO CONCRETE SHALL BE 1'-6" UNO.
16. PROVIDE (2) -#6 WITH 4'-0" LEGS) V SHAPED HAIRPIN BARS AT THE BASE OF ALL EXTERIOR COLUMNS, UNO.
17. ALL EXPOSED STEEL MEMBERS (INCLUDING CONNECTIONS AND ASSOCIATED ACCESSORIES) SHALL BE GALVANIZED.
18. NO EXCLUSIONS FROM PROVIDING A TOTAL AND COMPLETE BUILDING FRAMING PACKAGE WILL BE ENTERTAINED.

COLD-FORMED STEEL

1. ALL ASPECTS OF WORK RELATING TO COLD-FORMED (LIGHT GAGE) STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
- CURRENT EDITION OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING ANY SUPPLEMENTS.
2. COLD-FORMED STEEL MEMBERS SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS. FLANGE WIDTHS SHALL BE 1/8" WITH 1/2" RETURNS UNLESS SPECIFIED OTHERWISE.
3. ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A653 (G80), 25 GAUGE THROUGH 18 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 33 KSI YIELD POINT PER ASTM A653 GRADE 33. 16 GAUGE THROUGH 14 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 50 KSI YIELD POINT PER ASTM A446 GRADE 50.
4. SPLICES IN FRAMING COMPONENTS EXCEPT RUNNERS AND TRACKS SHALL NOT BE PERMITTED.
5. AT LOAD BEARING WALLS SUPPORTING FLOOR OR ROOF JOISTS, LOCATE STUDS DIRECTLY UNDER THE JOISTS OR PROVIDE LOAD DISTRIBUTING MEMBER BETWEEN STUDS TO SUPPORT JOISTS.
6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING SHALL BE DONE USING FILLET, PLUG, BUTT OR SEAM WELDS WITH A MINIMUM 1/32 IN. AWS TYPE 6015 WELDING RODS. WELD AREAS SHALL BE PAINTED WITH THE APPROPRIATE PAINT OR COLD-GALVANIZING TO RETAIN CORROSION RESISTANCE. ALL WORK SHALL BE COMPLETED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.3 STANDARDS.
7. PROVIDE HORIZONTAL BRIDGING IN ALL STUD SYSTEMS AT 4'-0" O.C. VERTICALLY FOR AXIALLY LOADED STUDS AND AT 6'-0" O.C. FOR NON-LOAD BEARING STUDS. WELD AT EACH STUD INTERSECTION.
8. SCREWS SHALL BE SELF-DRILLING AND OF TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002 MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL. ONLY. SCREWS SHALL BE 3/8" TO 1/2" LONGER THAN TOTAL MATERIAL THICKNESS.
9. SHEATHING MATERIALS FOR SHEAR WALLS MUST EXTEND AND BE CONNECTED TO THE TOP AND BOTTOM TRACKS.
10. STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS UNLESS NOTED OTHERWISE. STUDS SHALL SIT FLAT AGAINST THE WEB OF THE STUD TRACK AND BE ATTACHED WITH 1-#8 X 5/8" SCREW EACH SIDE OF EACH STUD.
11. WEB PUNCH-OUTS SHOULD BE COORDINATED WITH BRACING AND UTILITY REQUIREMENTS. WEB PUNCH-OUTS OR WEB OPENINGS SHALL BE LOCATED A MINIMUM OF 6" OR MEMBER DEPTH, WHICHEVER IS GREATER, FROM STUD OR JOIST BEARING POINTS.
12. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
13. FOR NON-LOAD BEARING STUDS, CONNECTIONS SHALL ACCOUNT FOR THE DEFLECTION OF THE STRUCTURAL MEMBERS TO WHICH THE STUDS ARE ATTACHED (1" MINIMUM). PROVIDE STRUTTING CLIPS AND/OR SLIP TRACKS.
14. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADS, AND ELSEWHERE TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS.
15. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT ERECTION DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
16. TRACK SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. ABUTTING PIECES OF TRACK SHALL BE SECURELY SPLICED TOGETHER.
17. THE DESIGN OF ALL COLD-FORMED STEEL SHALL BE PERFORMED BY THE COLD-FORMED METAL CONTRACTOR. THE DESIGN SHALL INCLUDE MEMBER SIZES AND CONNECTION. THE DESIGN SHALL CONSIDER MEMBER DIMENSIONS NOTED ON THE DRAWINGS. THE COLD-FORMED CONTRACTOR SHALL SUPPLY DRAWINGS SEALED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE OUT-OF-PLANE DEFLECTION OF STUDS SHALL BE LIMITED TO H/600 (H = UNSUPPORTED HEIGHT OF STUDS) IF USED FOR MASONRY OR STONE BACKUP. H/720 FOR ADHERED VENEER, FOR OTHER CONDITIONS THE DEFLECTION SHALL BE LIMITED TO H/500.
18. COLD-FORMED STEEL FRAMING SHALL HAVE A MINIMUM BASE METAL THICKNESS OF 43 MIL (18 GA.) IF USED FOR MASONRY OR STONE BACKUP.
19. DO NOT HANG STUD FRAMING FROM METAL DECK ROOF. FRAMING SHALL BE SUPPORTED BETWEEN ROOF FRAMING MEMBERS.
20. FOR ANCHORED MASONRY VENEER, THE DISTANCE BETWEEN THE INSIDE FACE OF THE VENEER AND THE COLD-FORMED STEEL, MASONRY, WOOD, OR CONCRETE BACKUP SHALL BE AS SPECIFIED BY THE ARCHITECT, BUT NOT GREATER THAN 4 1/2". A MINIMUM 1 INCH AIR SPACE SHALL BE PROVIDED.
21. ANCHORED MASONRY VENEER NOT LAID IN A RUNNING BOND SHALL HAVE A JOINT REINFORCEMENT OF AT LEAST ONE WIRE, OF SIZE W1.7, SPACED AT A MAXIMUM OF 18 INCHES ON CENTER VERTICALLY.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
- CONCRETE MIX DESIGNS AND ACCESSORIES
- REINFORCING STEEL
- PRE-ENGINEERED METAL BUILDING (*#)
- SLAB CONTRACTION JOINT LAYOUT
- ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (H) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (*) SHALL HAVE SEALED STRUCTURAL CALCULATIONS SUBMITTED TO ENGINEER FOR OWNER'S RECORD.
2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.
4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

SPECIAL INSPECTION

1. ALL ASPECTS OF WORK RELATING TO SPECIAL INSPECTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
- 2015 INTERNATIONAL BUILDING CODE (CHAPTER 17).
2. THE OWNER'S SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL. FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
4. DUTIES OF THE OWNER'S SPECIAL INSPECTOR INCLUDE (BUT ARE NOT LIMITED TO):
- A. ACKNOWLEDGE THE SPECIAL INSPECTION AND TESTING AGREEMENT PROVIDED BY THE LOCAL JURISDICTION.
- B. THE OWNER'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND TO THE BUILDING OFFICIAL.
- C. THE OWNER'S SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, CONTRACTOR AND OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
- D. THE OWNER'S SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
5. DUTIES OF THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):
- A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.
- B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
- C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED CONSTRUCTION DOCUMENTS AT JOBSITE.
- D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.
6. CONTINUOUS SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
7. PERIODIC SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
8. SPECIAL INSPECTIONS AND TESTING SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK LISTED BELOW. SPECIAL INSPECTIONS AND TESTING SHALL FOLLOW THE REQUIREMENTS OF THE BUILDING AND MATERIAL CODE REFERENCES AND TABLES. IN THE EVENT OF A CONFLICT BETWEEN REFERENCES, THE OWNER'S SPECIAL INSPECTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

- SOILS
- IBC 1705.6 AND TABLE 1705.6
- APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
- CAST-IN PLACE
- IBC 1705.9 AND TABLE 1705.9
- APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
- DEEP FOUNDATIONS
- IBC 1705.3 AND TABLE 1705.3
- CONCRETE
- IBC 1705.2 AND TABLE 1705.2.3
- AND AISC 360 CHAPTER N AND SDI QA/QC DOCUMENT
- STEEL
- IBC 1704.2.5 (NOT REQUIRED IF FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC 1704.2.5.1).
- SHOP FABRICATION
- IBC 1705.2.6
- PRE-ENGINEERED METAL BUILDING



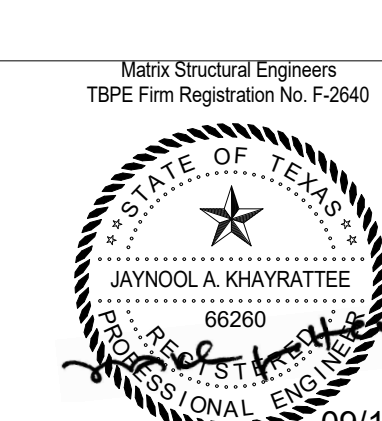
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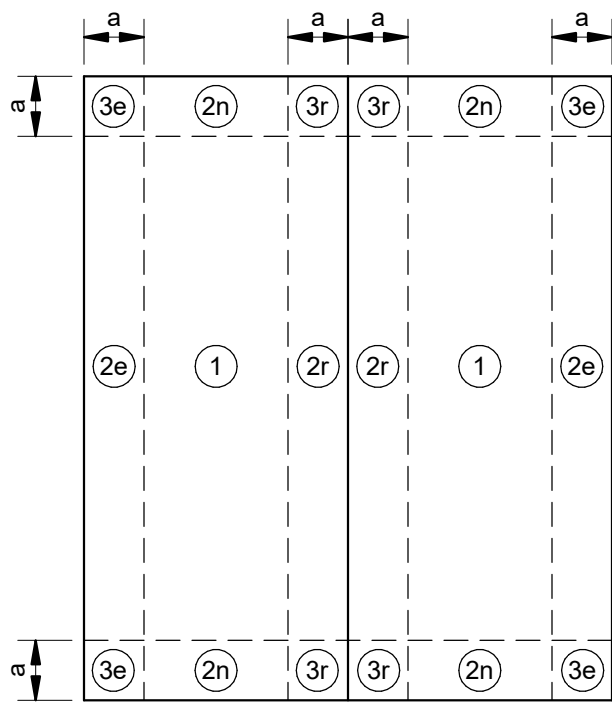
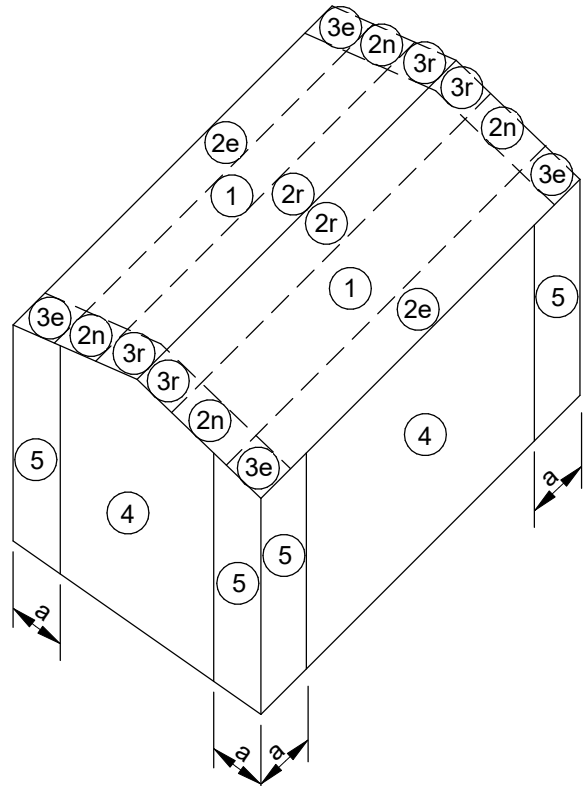
09/14/2026

ISSUED: SEPTEMBER 14, 2026

REVISIONS

ROOF PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
1	+21,-64	+19,-64	+16,-39	+16,-20	+16,-20	+16,-20
2n	+21,-93	+19,-81	+16,-64	+16,-51	+16,-35	+16,-35
2r	+21,-93	+19,-81	+16,-64	+16,-51	+16,-35	+16,-35
2e	+21,-64	+19,-64	+16,-39	+16,-20	+16,-20	+16,-20
3r	+21,-111	+19,-95	+16,-74	+16,-58	+16,-58	+16,-58
3e	+21,-93	+19,-81	+16,-64	+16,-51	+16,-35	+16,-35

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
4	+35,-38	+33,-36	+31,-34	+29,-32	+26,-29	+26,-29
5	+35,-46	+33,-43	+31,-39	+29,-36	+26,-29	+26,-29



GABLE ROOF

NOTES:

- (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
- + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
- WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
- a = WIDTH OF EDGE STRIP EQUAL TO 10% OF THE LEAST HORIZONTAL DIMENSION (L OR B) OR 40% OF THE ROOF HEIGHT (H), WHICHEVER IS SMALLER, BUT NOT LESS THAN 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.
- ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
- VALUES SHOWN ARE BASED ON IBC 2021 / ASCE 7-16 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-10 LOAD COMBINATIONS SHOWN IN SECTION 2.3.2 (1.0W).
- THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
- UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 12 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.

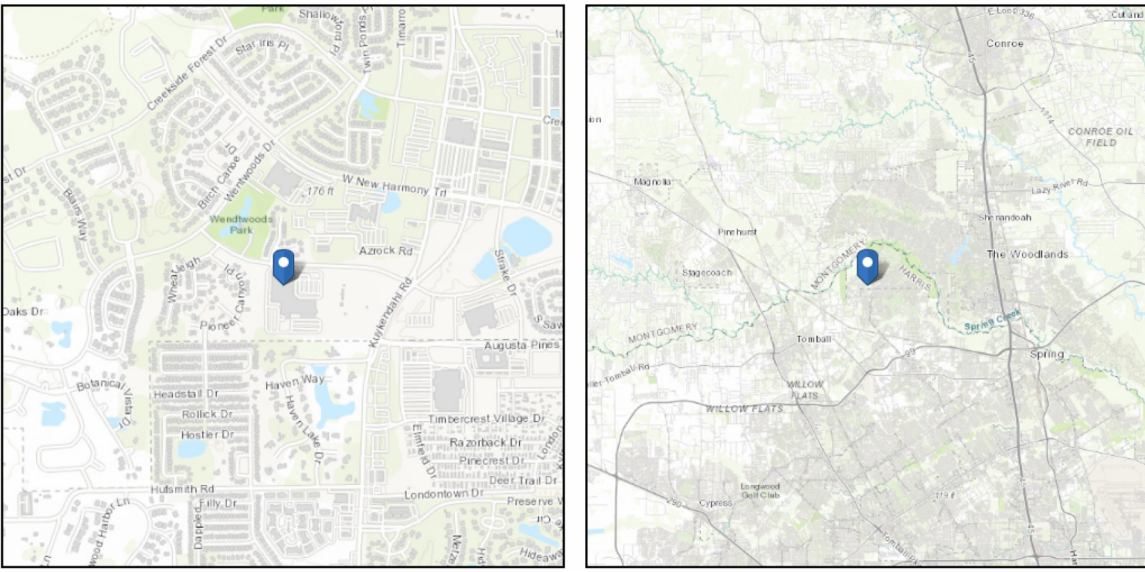
COMPONENTS & CLADDING PRESSURES



Address:
8711 Creekside Green Dr
Tomball, Texas
77375

ASCE Hazards Report

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: Default
Latitude: 30.138795
Longitude: -95.556947
Elevation: 160.05989931178536 ft (NAVD 88)



Wind

Results:

Wind Speed	123 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	96 Vmph
100-year MRI	104 Vmph
300-year MRI	115 Vmph
700-year MRI	123 Vmph
1,700-year MRI	129 Vmph
3,000-year MRI	134 Vmph
10,000-year MRI	142 Vmph
100,000-year MRI	155 Vmph
1,000,000-year MRI	167 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4, and Section 26.5.2
Date Accessed: Fri Jun 12 2026

<https://ascehazardsbid.org/>

Page 1 of 3

Fri Jun 12 2026

ABBREVIATIONS

ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
ADDNL.	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
A.R.	ANCHOR ROD
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT(URAL)
BM.	BEAM
BRG.	BEARING
BTW.	BETWEEN
BOT.	BOTTOM
B.F.B.	BOTTOM FLANGE BRACE
B.O.	BOTTOM OF
BRDG.	BRIDGING
BLDG.	BUILDING
C.	CAMBER
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
C/C	CENTER TO CENTER
CL.	CENTERLINE
CH.	CHANNEL
CLR.	CLEAR(ANCE)
CFMF.	COLD FORMED METAL FRAMING
COL.	COLUMN
C.J.P.	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
CMU.	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONSTRUCTION / CONTRACTION JOINT
CONT.	CONTINUOUS
COORD.	COORDINATE
DL.	DEAD LOAD
DBA.	DEFORM BAR ANCHOR
D.	DEPTH
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
DWL.	DOWEL
D.N.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
EOR.	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
f _{cr}	28 DAY CONCRETE STRENGTH
FAB.	FABRICATE
F.S.	FAR SIDE
FIN.	FINISH/FINISHED
FLR.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
F _y	YIELD STRENGTH
GALV.	GALVANIZED
GA.	GAUGE
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR
GFRC.	GLASS FIBER REINFORCED CONCRETE
GR.	GRADE/GRADING
HGR.	HANGER
HSA.	HEADED STUD ANCHOR
HI.	HIGH
HSS.	HOLLOW STRUCTURAL SECTION
HORIZ. OR (H)	HORIZONTAL
H	HORIZONTAL REACTION
IN.	INCH
INFO.	INFORMATION
ID.	INSIDE DIAMETER
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS (1000 LBS)
KSF.	KIPS PER SQUARE FOOT
KSI.	KIPS PER SQUARE INCH
L	ANGLE
Ld	DEVELOPMENT LENGTH
LWC.	LIGHTWEIGHT CONCRETE
LL	LIVE LOAD
LLBB.	LONG LEG BACK TO BACK
LLV.	LONG LEG VERTICAL
LLH.	LONG LGE HORIZONTAL
LSH.	LONG SIDE HORIZONTAL
LSV.	LONG SIDE VERTICAL
LONG.	LONGITUDINAL
LO.	LOW
LBS.	POUNDS
MFR. / MNFR.	MANUFACTURER
MAS.	MASONRY
MAX.	MAXIMUM

MECH.	MECHANICAL
MEP.	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.	MOMENT
M.C.	MOMENT CONNECTION
N.S.	NEAR SIDE
NWC.	NORMAL WEIGHT CONCRETE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER(S)
OPNG.	OPENING
OPP.	OPPOSITE
OPH.	OPPOSITE HAND
OD.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OA.	OVERALL
O.H.	OVERHEAD
OVS.	OVERSIZED HOLE
P.	AXIAL LOAD
P.J.	PANEL JOINT
PAR.	PARALLEL
PRKG.	PARKING
P.J.P.	PARTIAL JOINT PENETRATION
PVMT.	PAVEMENT
PVG.	PAVING
PERP.	PERPENDICULAR
PL.	PLATE
PLBG.	PLUMBING
PT.	POST-TENSION(ED)
PCF.	POUNDS PER CUBIC FOOT/FEET
PLF.	POUNDS PER LINEAR FOOT
PSF.	POUNDS PER SQUARE FOOT/FEET
PSI.	POUNDS PER SQUARE INCH
P/C.	PRECAST CONCRETE
PRELIM.	PRELIMINARY
P.L.	PROPERTY LINE
QTY.	QUANTITY
R.	RADIUS, REACTION, REMAINDER
REC.	RECESSED
RE.	REFER TO
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REBAR.	REINFORCING BAR
REQD.	REQUIRED
REV.	REVISION
R.D.	ROOF DRAIN
RTU.	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLBB.	SHORT LEG BACK TO BACK
SIM.	SIMILAR
SC.	SLIP CRITICAL, SHEAR CONNECTOR
SPA.	SPACING
SPEC.	SPECIFICATION
SQ.	SQUARE
SF.	SQUARE FOOT/FEET
STD.	STANDARD
STL.	STEEL
STIFF.	STIFFENER
STIR.	STIRRUP
STRUCT.	STRUCTURE/STRUCTURAL
TEMP.	TEMPERED
THK.	THICKNESS
I.	THICKNESS, TREAD
THD.	THREADED
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT. OR (V)	VERTICAL
WT.	WEIGHT
WWR.	WELD WIRE REINF.
WF.	WIDE FLANGE
W.	WIDTH
WL.	WIND LOAD
W.P.	WORK POINT
XXS.	DOUBLE EXTRA STRONG
XS.	EXTRA STRONG
&	AND
≈	APPROXIMATELY EQUAL
@	AT
°	DEGREE
=	EQUAL
≥	GREATER THAN or EQUAL
≤	LESS THAN or EQUAL
#	NUMBER or POUNDS
/	PER
±	PLUS or MINUS
Ø	ROUND/DIAMETER

SYMBOLS LEGEND

SYMBOLS	DESCRIPTION
	NORTH ARROW
	ENLARGE FLOOR PLAN REFERENCE OR ENLARGE DETAIL REFERENCE
	DETAIL SECTION (STRUCTURAL)
	BRACING ELEVATION
	DIMENSIONS
	MATCHLINE
	REVISION NUMBER & AFFECTED AREA
	VERTICAL ELEVATION
	EXISTING ELEVATION
	NEW ELEVATION
	M.C. OR MOMENT CONNECTION
	DEPRESSION
	PANEL WALL TAG
	BELLED PIER
	PILE SHAFT
	FOOTING



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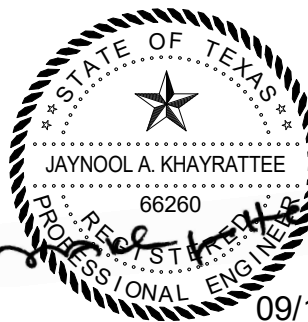
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TOMBALL, TEXAS

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Matrix Structural Engineers
TPE# Firm Registration No. F-2840



ISSUED: SEPTEMBER 14, 2026

REVISIONS

Revision No. Revision Date

Project Director:

Project Architect:

Project Designer:

Drawn By: Author

PROJECT NO.

25-0158.00

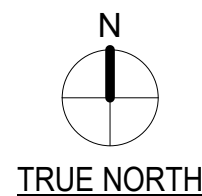
SHEET TITLE

CONT. GENERAL NOTES,
ABBREVIATIONS AND
SYMBOLS

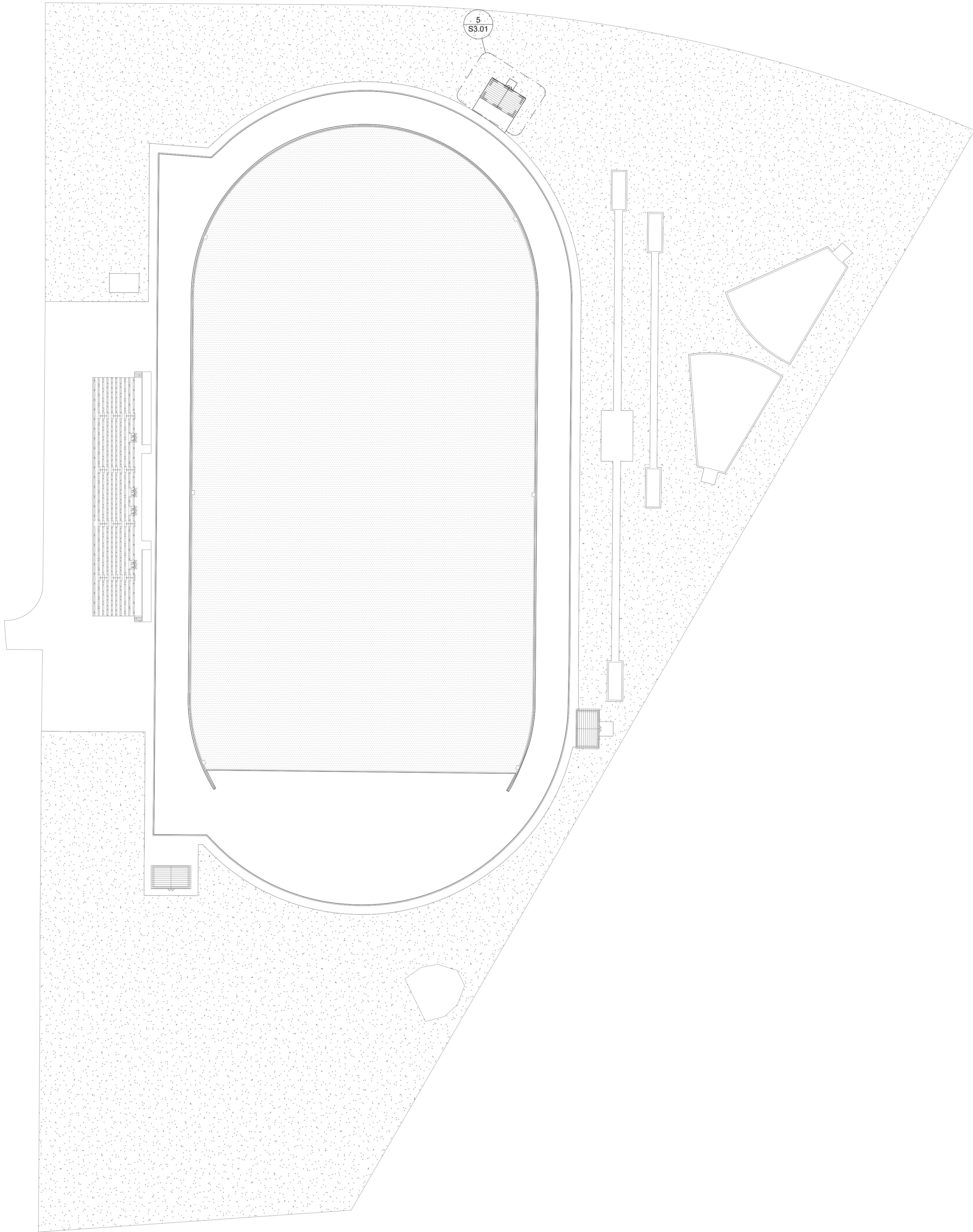
SHEET NO.

S1.02

Tomball Athletic Improvements



1 CREEKSIDE PARK JHS - SITE PLAN
SCALE: 1" = 40'-0"

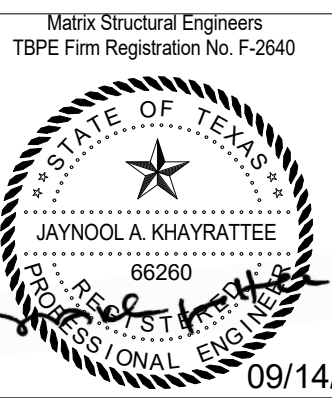


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Revision No.	Revision Date

Project Director:
Project Architect:
Project Designer:
Drawn By: Author

PROJECT NO.
25-0158.00

SHEET TITLE
**CREEKSIDE PARK JHS -
SITE PLAN**

SHEET NO.

S2.01

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REVISIONS

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SHEET TITLE

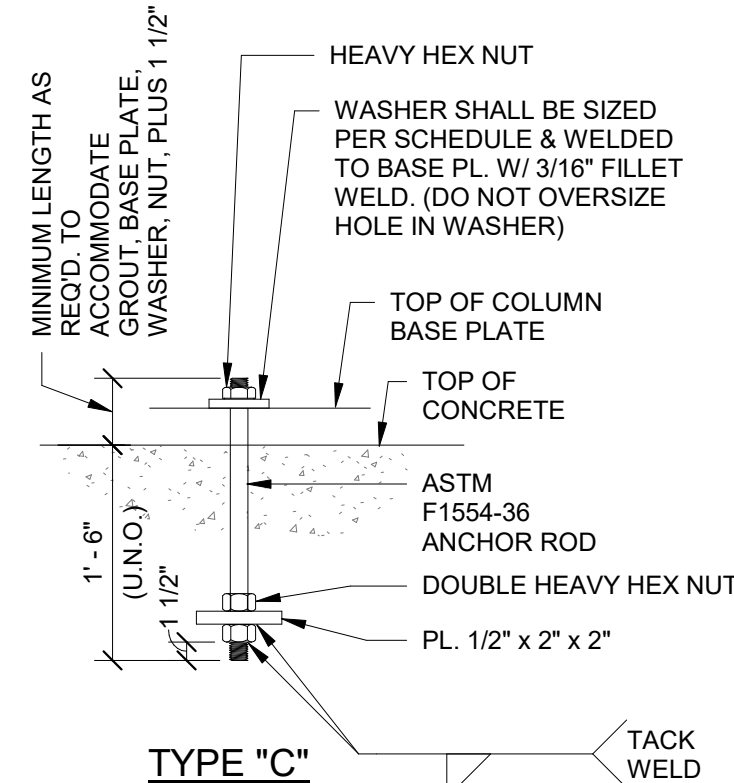
STORAGE BUILDING PLANS

SHEET NO.

S3.01

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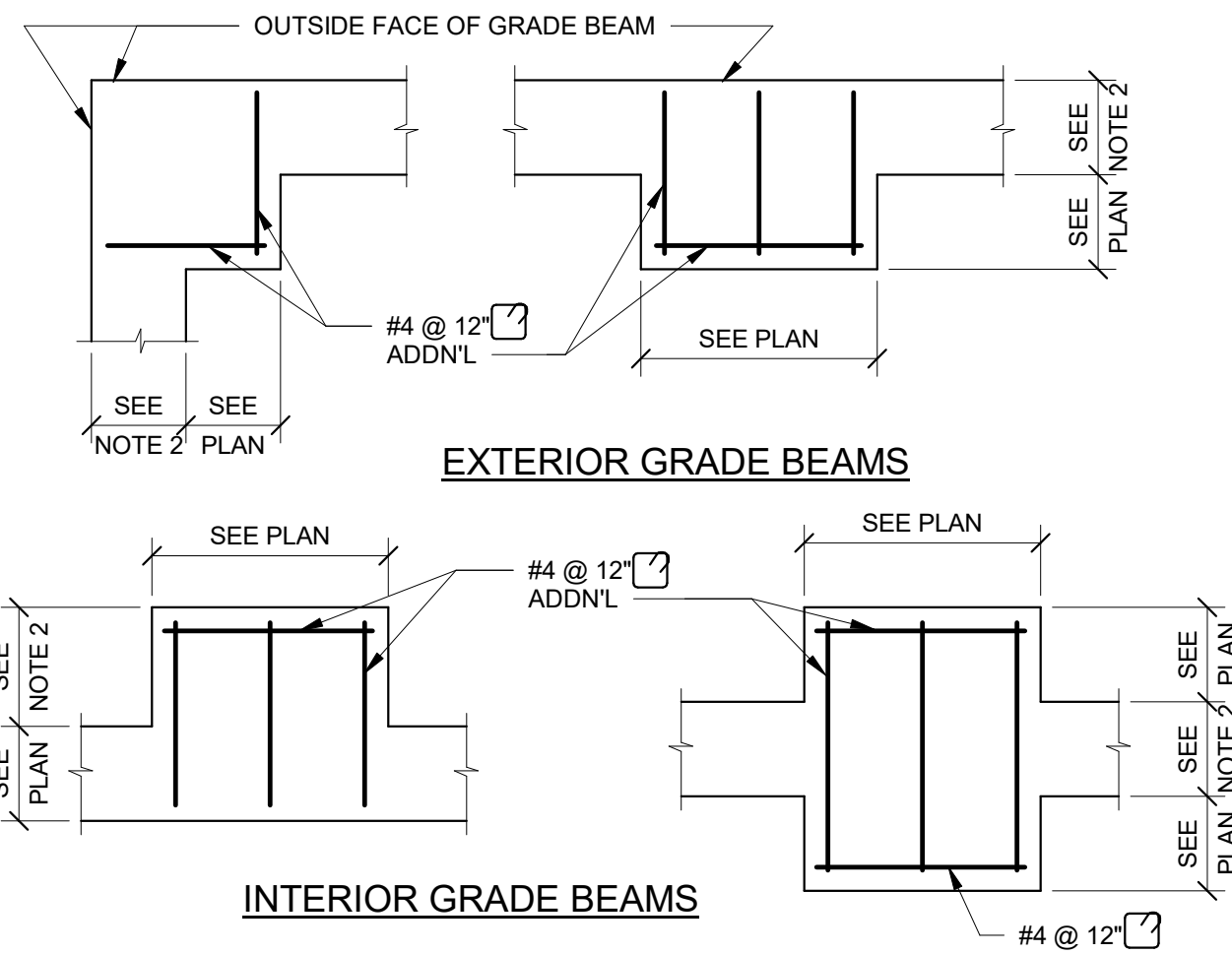
TYPE "B" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "B" ANCHOR BOLTS AT COLUMNS WITH DIAGONAL BRACES, MOMENT CONNECTIONS, & AT CANOPY COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

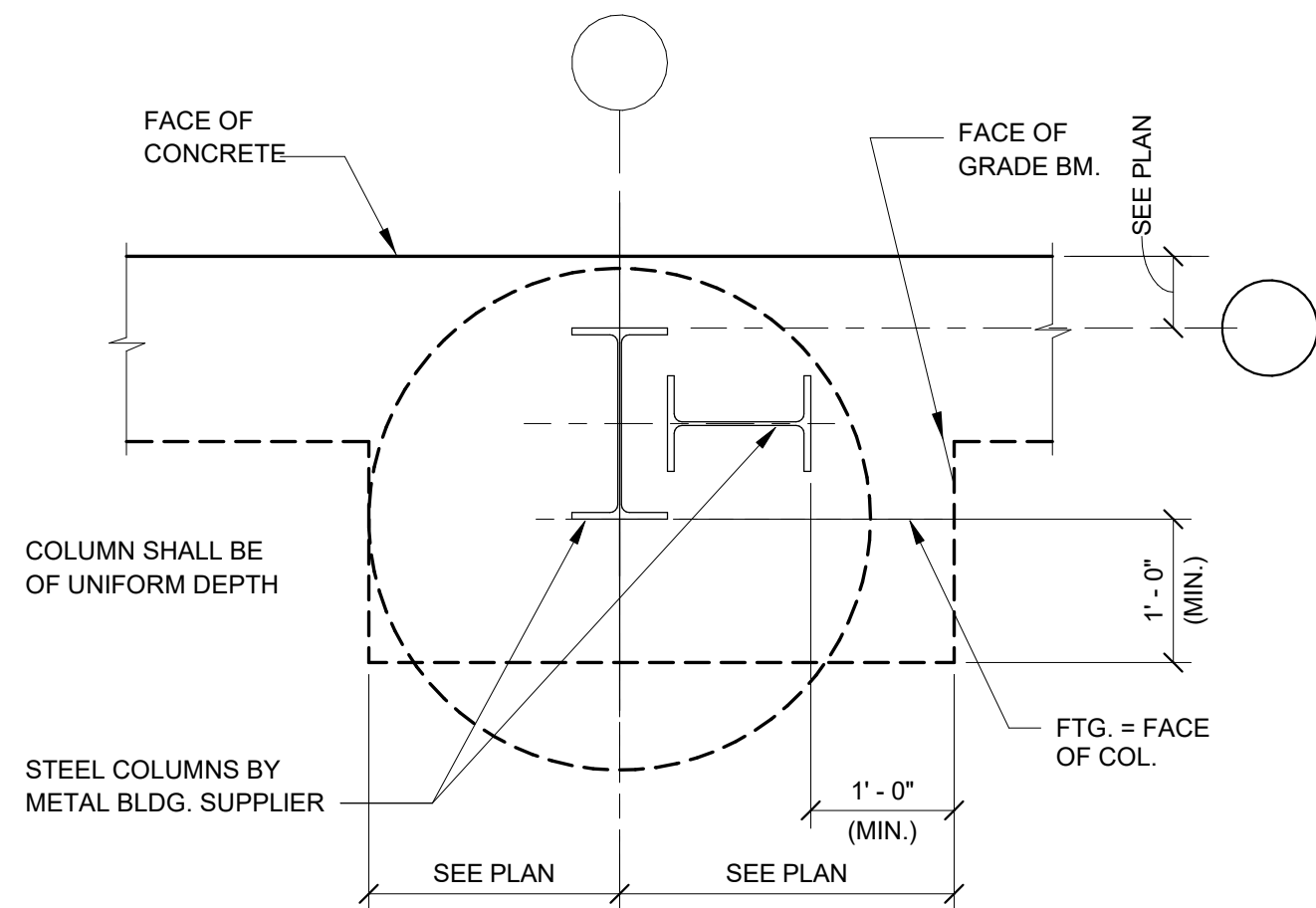
SCALE: N.T.S.



NOTES:
1. PLAN VIEWS FOR TYPICAL WIDENED GRADE BEAMS ARE SHOWN. FOR SIMILAR CONDITION NOT SHOWN, PROVIDE #4 @ 12" O.C. MAX. IN WIDENED SECTION.
2. SEE DETAIL SHEETS FOR GRADE BEAM WIDTH.

TYPICAL DETAIL
ADDITIONAL BARS AT WIDENED GRADE BEAM
(PLAN VIEW)

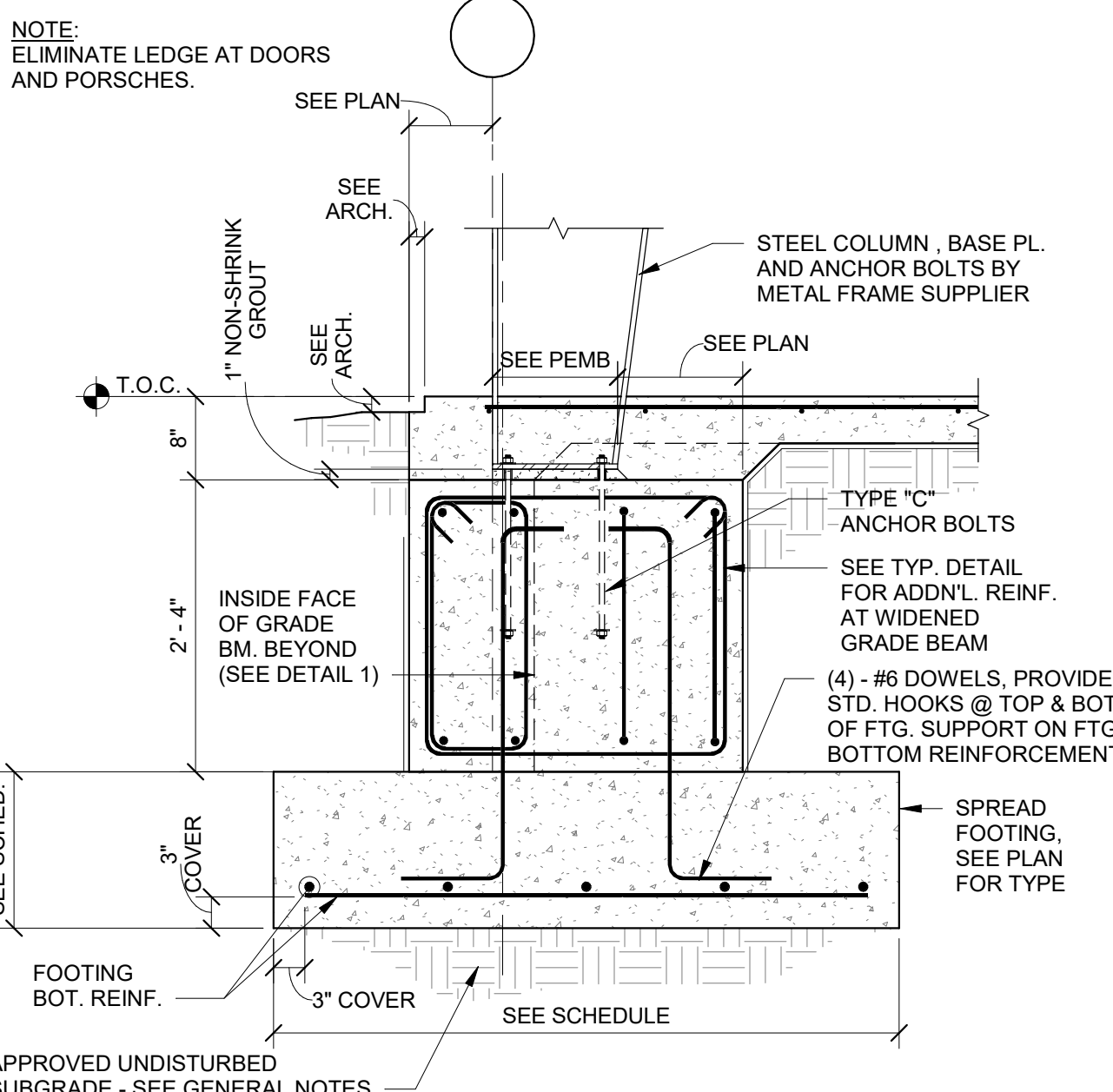
SCALE: N.T.S.



NOTE:
1. LOCATIONS OF PORTAL FRAMES ARE UNKNOWN UNTIL PEMB SHOP DRAWINGS ARE RECEIVED. G.C. TO COORDINATE LOCATIONS AND ADJUST PLINTH SIZES ACCORDINGLY

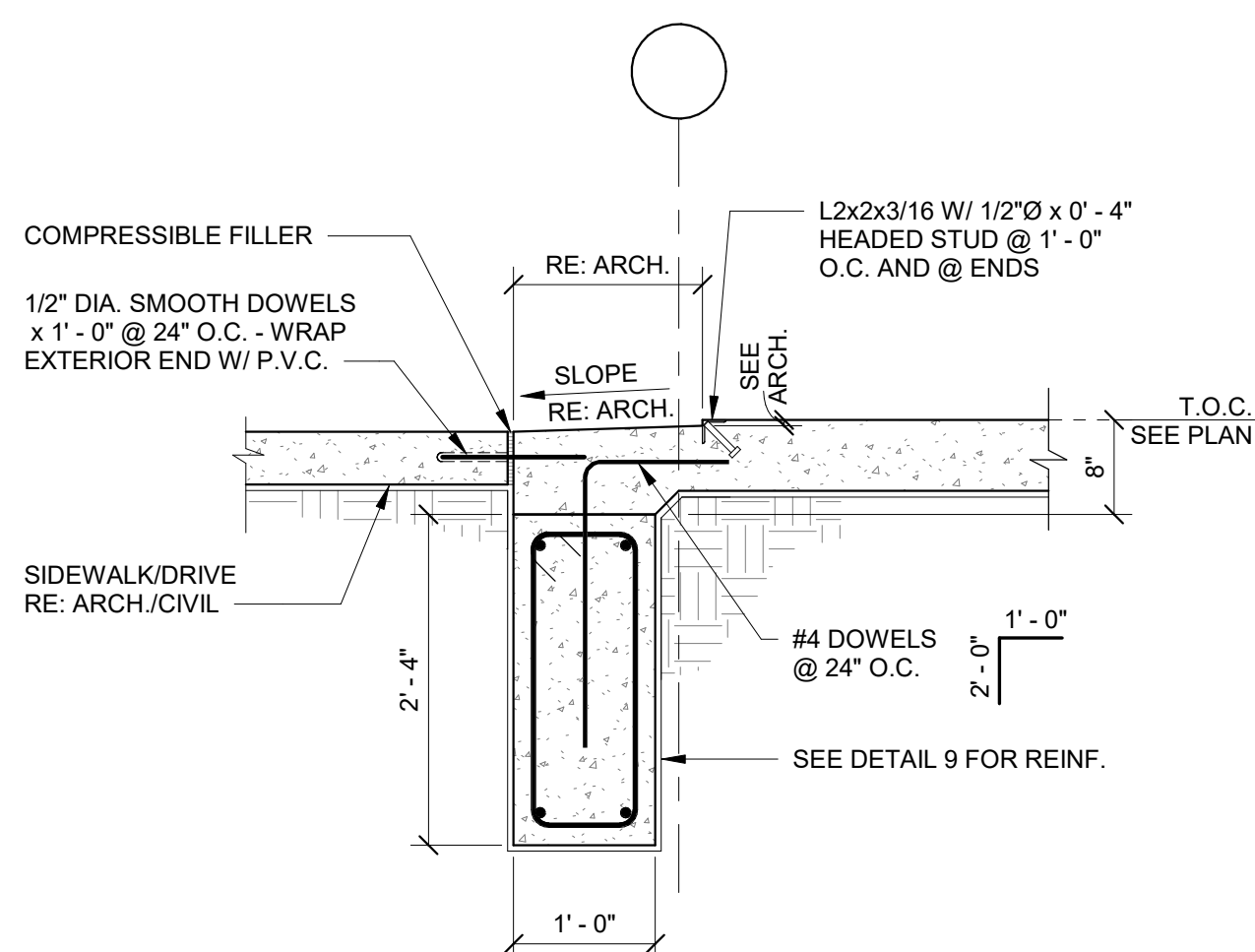
TYPICAL DETAIL
PLAN AT PORTAL FRAME

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



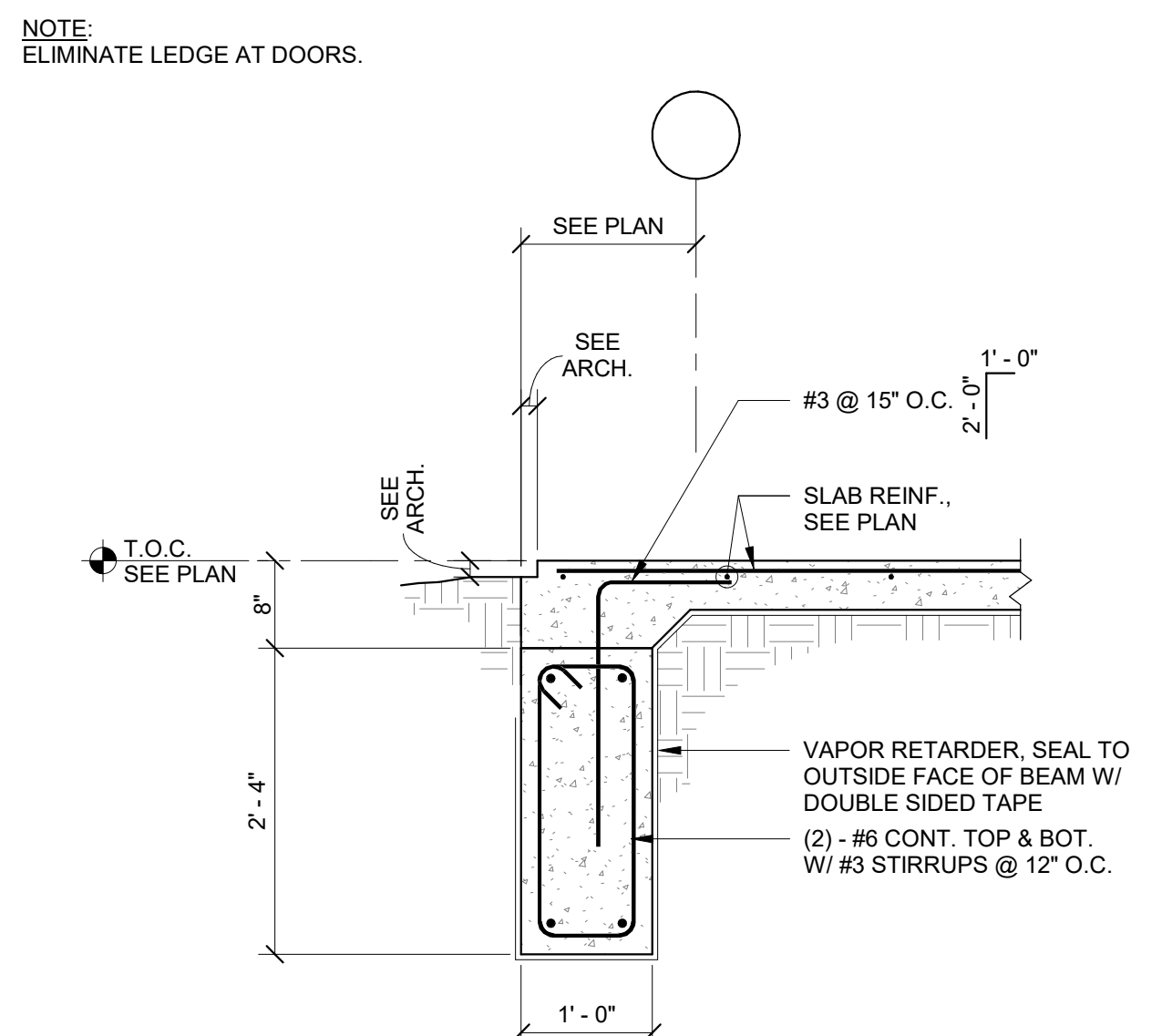
TYPICAL DETAIL
WIDENED GRADE BEAM AT EXTERIOR
PRE-ENGINEERED METAL BUILDING COLUMN

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



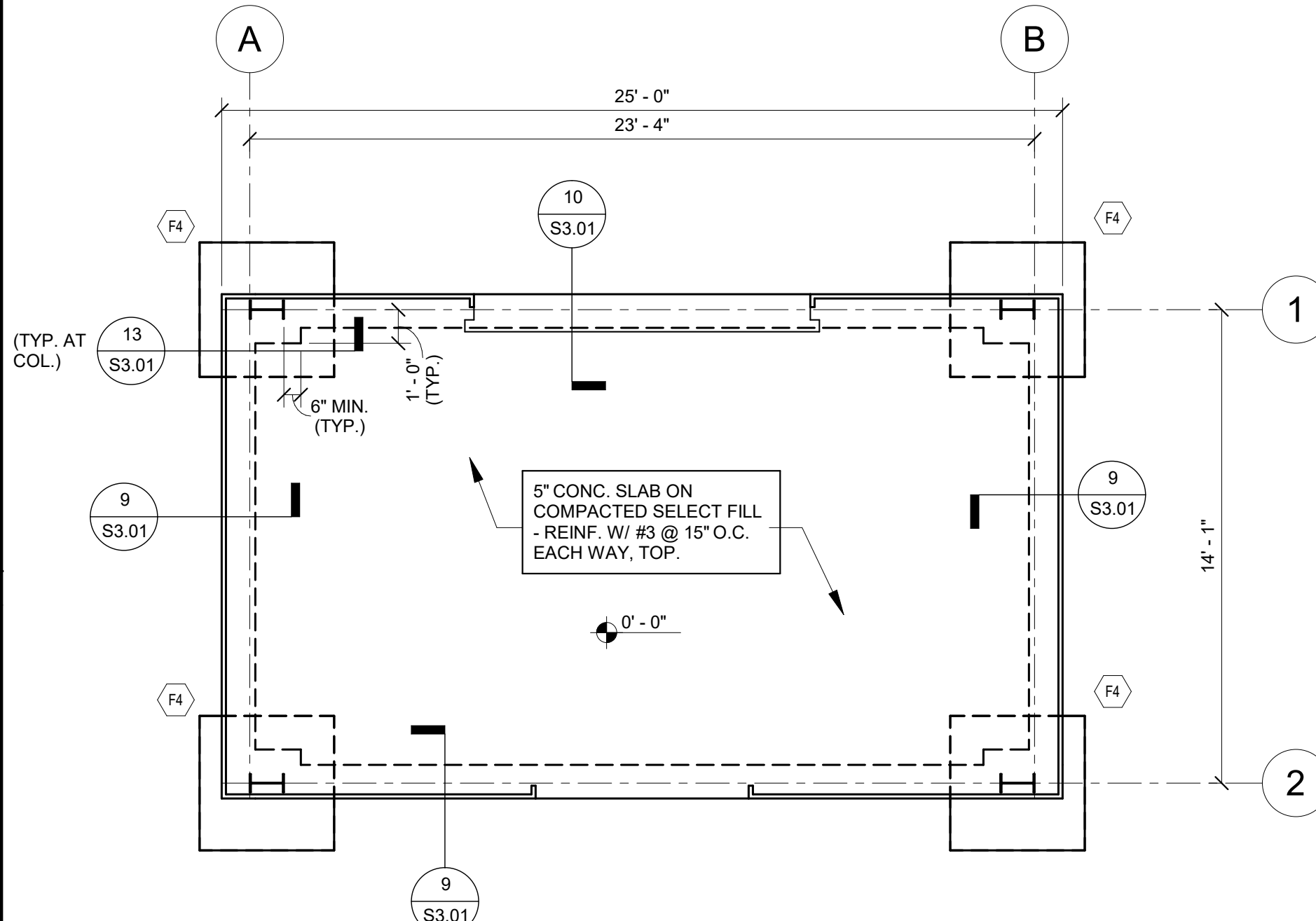
TYPICAL DETAIL
EXTERIOR GRADE BEAM AT OVERHEAD DOOR

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



TYPICAL DETAIL
EXTERIOR GRADE BEAM

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



FOOTING SCHEDULE

Mark	Length	Width	Thickness	Reinforcement Bottom (Short way)	Reinforcement Bottom (Long way)	Reinforcement Top (Short way)	Reinforcement Top (Long way)	Note
F4	4' - 0"	4' - 0"	1' - 0"	(4)#5	(4)#5			

CREEKSIDE PARK JHS STORAGE BUILDING - FOUNDATION PLAN

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



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M.E.P. ENGINEER

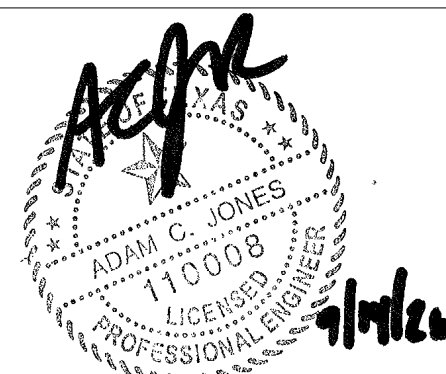
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TOMBALL, TEXAS

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REVISIONS

Revision No. Revision Date

Project Director:

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Project Designer:

Drawn By: DBR

PROJECT NO.

25-0158.00

SHEET TITLE

ELECTRICAL SYMBOL
LEGEND

SHEET NO.

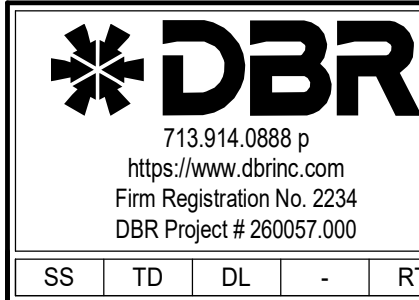
E0.01

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Tomball Athletic Improvements

ABBREVIATIONS	ELECTRICAL SYMBOLS		GENERAL NOTES: A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.	
AC ALTERNATING CURRENT AF AMPERE FUSE, AMPERE FRAME AFF ABOVE FINISHED CEILING AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPT CAPACITY AL ALUMINUM AM AMMETER AMP AMPLIFIER ANN ANNUNCIATOR ASC AMPERES SHORT CIRCUIT AT AMPERE TRIP RATING ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY BKR BREAKER BLDG BUILDING C CONDUIT, CELSIUS CAIT CIRCUIT CLG CEILING CONT. CONTINUOUS CONTINUATION CONTR CONTROLLER, CONTRACTOR CT CURRENT TRANSFORMER/COOLING TOWER CU COPPER DAS DISTRIBUTED ANTENNA SYSTEM DC DIRECT CURRENT DISC DISCONNECT DP DISTRIBUTION PANEL DPDT DOUBLE-POLE, DOUBLE-THROW DPST DOUBLE-POLE, SINGLE-THROW DWG DRAWING ELEV ELEVATOR EPO EMERGENCY POWER OFF ERD EMERGENCY RESPONDER RADIO COVERAGE SYSTEM FA FIRE ALARM FF FURNITURE FEED FLA FULL LOAD AMPS FTL FEED-THRU LUGS GA GAUGE GEN GENERATOR GND GROUND GTD GENERATOR TRANSFER DEVICE IS ISOLATED GROUND LF LINEAR FEET LTG LIGHTING LV LOW VOLTAGE LVL LEVEL MAX MAXIMUM MC METAL CLAD CABLE MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MCCB MOLDED CASE CIRCUIT BREAKER MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MIC MICROPHONE MIN MINIMUM MLO MAIN LUGS ONLY MOCP MAXIMUM OVER-CURRENT PROTECTION MSB MAIN SWITCHBOARD NBR NEMA 3R N4X NEMA 4X NCL NORMALLY CLOSED N.C. NATIONAL ELECTRICAL CODE NF NON-FUSED NFS NON-FUSED SWITCH NIC NOT IN CONTACT NL NIGHT LIGHT N.O. NORMALLY OPEN NO NUMBER NTS NOT TO SCALE PH PHASE POS POINT OF SALE QTY QUANTITY RCP REFLECTED CEILING PLAN RCPT RECEPTACLE RE REFERENCE, REFER SF SQUARE FOOT SIM SIMILAR SKVA STARTING KILOVOLT-AMPS SPD SURGE PROTECTION DEVICE SPST SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE, SINGLE-THROW SPEC SPECIFICATION SQFT SQUARE FOOT ST SHUNT TRIP SWB SWITCHBOARD TL TWIST-LOCK TOC TOP OF CURB TOS TOP OF STEEL TR TAMPER RESISTANT RECEPTACLE TV TELEVISION TYP TYPICAL UG UNDERGROUND UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SYSTEM VFD VARIABLE FREQUENCY DRIVE WP WEATHERPROOF WT WEIGHT WSF WATTS PER SQUARE FOOT XFMR TRANSFORMER MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES	MOTORS AND CONTROLS MOTOR RATED SWITCH WITH THERMAL OVERLOADS SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER ELECTRIC DUCT HEATER DISCONNECT (SAFETY) SWITCH "200/3150" DENOTES AMPERES/POLE/FUSE, "N" DENOTES NON-FUSED "N"R DENOTES NEMA 3R ENCLOSED CIRCUIT BREAKER- "200/3150" DENOTES AMPERES/POLE/TRIP MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26 COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "300/150W" DENOTES AMPERES/POLES/FUSE, STARTER SIZE, "N" DENOTES NON-FUSED, FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26 VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26 EMERGENCY POWER OFF BUTTON		RACEWAYS AND WIRING CAP AND STAKE CONDUIT CONCEALED IN WALL OR CEILING UNDERGROUND, UNDERSLAB, CONCEALED ROUTING OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE CONDUIT UP/DOWN HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE. HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED	
	RECEPTACLES AND OUTLETS ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS. ABBREVIATIONS APPLICABLE TO RECEPTACLES: "GFC" GROUND FAULT INTERRUPTER "WP" WEATHERPROOF "IG" ISOLATED GROUND "TR" TAMPER RESISTANT "USP" RECEPTACLE WITH USB CHARGING PORTS "AC" ABOVE COUNTER MOUNTING "UC" UNDER COUNTER MOUNTING "H" HORIZONTALLY ORIENTED RECEPTACLE SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADDED INDICATES SPLIT-WIRED FOURPLEX (QUAD/RUPLEX) RECEPTACLE DUPLEX RECEPTACLE (PEDESTAL MOUNTED) CONTROLLED WALL RECEPTACLE DUPLEX: SPLIT-WIRED POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA FLOOR BOX OR POKE THRU: POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED JUNCTION BOX "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES PULL BOX (OVER 4" SQUARE) BELL/BUZZER/CHIME PUSH BUTTON/DOOR BELL/START-STOP POWER POLE POINT OF DIRECT CONNECTION TO EQUIPMENT CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.		ELECTRICAL EQUIPMENT DISTRIBUTION PANEL SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER PANELBOARD (FLUSH/SURFACE MOUNT) FLOOR MOUNTED DRY-TYPE TRANSFORMER SUSPENDED OR WALL MOUNTED TRANSFORMER AUTOMATIC TRANSFER SWITCH FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4" X 8" X 3/4" UNLESS NOTED OTHERWISE	
	COMMUNICATIONS DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF) DATA/COMM/AV ROUGH-IN: CONDUIT TO PLENUM AND BOX ONLY SCHOOL INTERCOMMUNICATION SYSTEM HANDSET DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF VOLUME CONTROL - WALL MOUNTED INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT CEILING MOUNTED DEVICES: INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER. REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.		MISCELLANEOUS SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED. INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL. DRAWING NOTE REFERENCE AREA OF RESCUE ASSISTANCE	
			FIRE ALARM WATER FLOW SWITCH SUPERVISORY SWITCH SMOKE DETECTOR - MULTI CRITERIA DETECTOR SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE HEAT DETECTOR BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT. BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT. FIRE ALARM SPEAKER STROBE / CEILING MOUNTED FIRE ALARM SPEAKER / CEILING MOUNT. MAGNETIC DOOR HOLDER AUXILIARY CONTROL RELAY FIRE FIGHTER HANDSET FIRE ALARM PULL STATION +42" AFF FIREMAN'S TELEPHONE JACK +42" AFF AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF, 1975cd U.N.O. VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 1575cd U.N.O. AUDIO FIRE ALARM HORN +80" AFF FIRE ALARM CONTROL PANEL REMOTE FIRE ALARM ANNUNCIATOR PANEL REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES FIRE SMOKE DAMPER REMOTE LED INDICATOR LIGHT	
			SECURITY ADA AUTO DOOR OPEN BUTTON DOOR RELEASE BUTTON WALL MOUNTED CARD READER REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.	
			SWITCHES AND LIGHTING CONTROL DEVICES ALL SWITCH TYPES AND SENSORS TYPES SHOWN ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS SWITCH ANNOTATION AS FOLLOWS: TYPE, PER SCHEDULE NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c) OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS: OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE CEILING SENSOR WITH BRACKET INDICATES WALL / CORNER MOUNT LIGHT SENSOR ANNOTATION, AS FOLLOWS: DIGITAL PHOTOCELL DAYLIGHT HARVESTING SENSOR RELAY PANELS, CONTACTORS, TIME SWITCHES: RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES: "LC" LIGHTING CONTRACTOR "LCP" LIGHTING CONTROL PANEL "TS" TIME SWITCH "TC" TIME CLOCK	
			DRAWING/DETAIL REFERENCE KEY REFER TO DRAWING/DETAIL NUMBER RE: 1 E32 SHEET NUMBER 1 E32	
			PANELBOARD NOMENCLATURE 5 DP C H A 1 SUB PANEL AREA VOLTAGE H: 480Y/277V L: 208Y/120V BRANCH NONE- NORMAL E: LIFE SAFETY Q: EQUIPMENT C: CRITICAL R: LEGALLY REQUIRED X: OPTIONAL STAND-BY DISTRIBUTION PANEL (IF APPLICABLE) LEVEL	
			DAYLIGHT ZONES DAYLIGHT ZONE-PRIMARY SECONDARY DAYLIGHT ZONE DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.	
	LIGHTING LETTER(S) DENOTE TYPE-SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. STRIP LIGHTING FIXTURES. ROUND DOWNLIGHT FIXTURE. SQUARE DOWNLIGHT FIXTURE. WALL MOUNTED LIGHTING FIXTURE. TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE. CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE. WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE. EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE. SITE LIGHTING FIXTURE. HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS. EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE. "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL324) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN. CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED, HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES			

Sheet Number	Sheet Name
E0.01	ELECTRICAL SYMBOL LEGEND
E0.11	ELECTRICAL GENERAL NOTES
E3.01A	ELECTRICAL ENLARGED PLANS - CREEKSIDE PARK JHS
E3.01B	ELECTRICAL ENLARGED PLANS - GRAND LAKES JHS
E3.01C	ELECTRICAL ENLARGED PLANS - TOMBALL JHS
E3.01D	ELECTRICAL ENLARGED PLANS - TOMBALL MEMORIAL HS
E3.01E	ELECTRICAL ENLARGED PLANS - WILLOW WOOD JHS
E5.01A	ELECTRICAL SCHEDULES - CREEKSIDE PARK JHS
E5.01B	ELECTRICAL SCHEDULES - GRAND LAKES JHS
E5.01C	ELECTRICAL SCHEDULES - TOMBALL JHS
E5.01D	ELECTRICAL SCHEDULES - TOMBALL MEMORIAL HS
E5.01E	ELECTRICAL SCHEDULES - WILLOW WOOD JHS
E5.02A	ELECTRICAL PANEL SCHEDULES - CREEKSIDE PARK JHS
E5.02B	ELECTRICAL PANEL SCHEDULES - GRAND LAKES JHS
E5.02C	ELECTRICAL PANEL SCHEDULES - TOMBALL JHS
E5.02D	ELECTRICAL PANEL SCHEDULES - TOMBALL MEMORIAL HS
E5.02E	ELECTRICAL PANEL SCHEDULES - WILLOW WOOD JHS
E6.01A	ELECTRICAL DETAILS - CREEKSIDE PARK JHS
E6.01B	ELECTRICAL DETAILS - GRAND LAKES JHS
E6.01C	ELECTRICAL DETAILS - TOMBALL JHS
E6.01D	ELECTRICAL DETAILS - TOMBALL MEMORIAL HS
E6.01E	ELECTRICAL DETAILS - WILLOW WOOD JHS
Grand total: 22	





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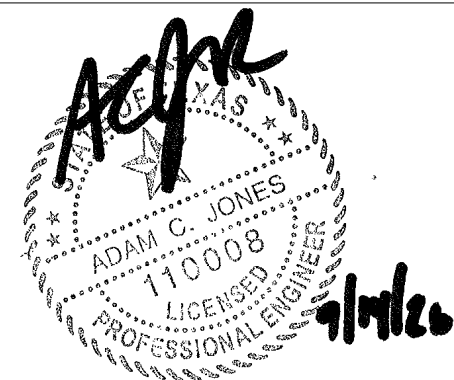
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REVISIONS

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Project Director:

Project Architect:

Project Designer:

Drawn By: Author

PROJECT NO.

25-0158.00

SHEET TITLE

ELECTRICAL GENERAL
NOTES

SHEET NO.

E0.11

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GENERAL ELECTRICAL NOTES:

- A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.
- B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL, SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 28 SCOPE OF WORK IS PROHIBITED.
- C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.
- D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
- E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.
- F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PIT'S OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED. ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI," REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.
- G. WHERE MULTI-WIRE HOMERUNS ARE INSTALLED, GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT. CONTRACTOR IS REQUIRED TO FURNISH CALCULATIONS PROVING CONDUCTOR DE-RATING HAS BEEN INCORPORATED, INCLUDING CONDUIT FILL PERCENTAGE AND MULTI-CONDUCTOR DE-RATING FOR MULTI-WIRE CIRCUITS. THE NEUTRAL IS CONSIDERED A CURRENT CARRYING CONDUCTOR FOR ALL PHASE CONFIGURATIONS. MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL SHALL BE PROVIDED WITH GROUPED BREAKER HANDLE TIES PER NEC ARTICLE 210.4 & 240.15(B).
- H. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED LISTED FIRE ENCLOSURE.
- I. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.
- J. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STD. AND SEAL FOR SOUND AS REQUIRED.
- K. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

GENERAL LIGHTING DEMOLITION NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.
- B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.
- C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.
- D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.
- E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.
- F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED, AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED. ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHERWISE ON PLANS.
- G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE NOT IN SCOPE OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.
- H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT IMPACT.

LIGHTING GENERAL NOTES:

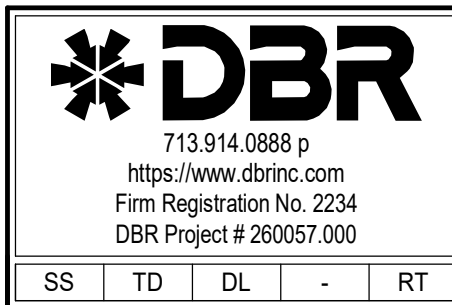
- A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEET.
- B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.
- C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.
- D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAPMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.
- E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.
- F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

GENERAL POWER DEMOLITION NOTES:

- A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.
- B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.
- C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.
- D. DEMOLISHED POKE-THRU'S SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.
- E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

GENERAL SITE PLAN NOTES:

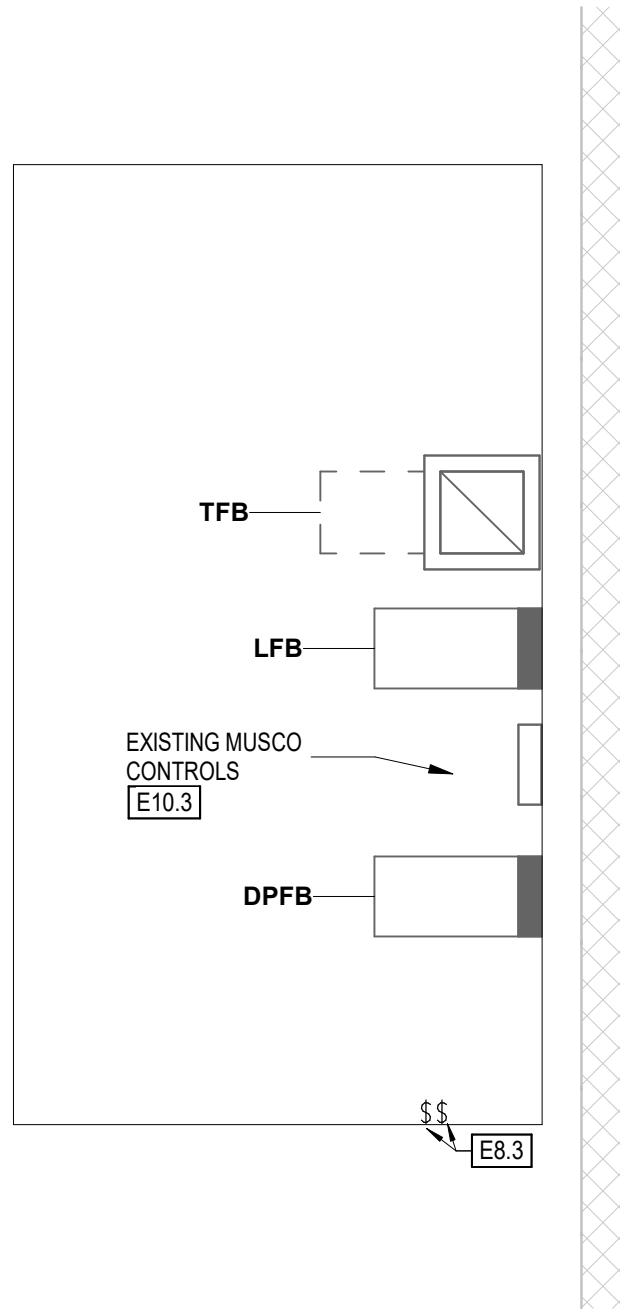
- A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.
- B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.
- C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
- D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.
- E. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER, SANITARY/SEWER, AND/OR GAS LINES THAT MAY BE BURIED IN AREAS OF NEW CONSTRUCTION OR WHEN TRENCHING FOR NEW FEEDERS AND BRANCHES IS REQUIRED. COORDINATE WITH CIVIL PLANS FOR ADDITIONAL INFORMATION.
- F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.
- G. THE CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL SPARE OR UNUSED UNDERGROUND CONDUITS.
- H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.
- I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.
- J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.
- K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.
- L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.
- M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.
- N. CONDUIT SHALL NOT BE ROUTED UNDER SPORTS FIELD.



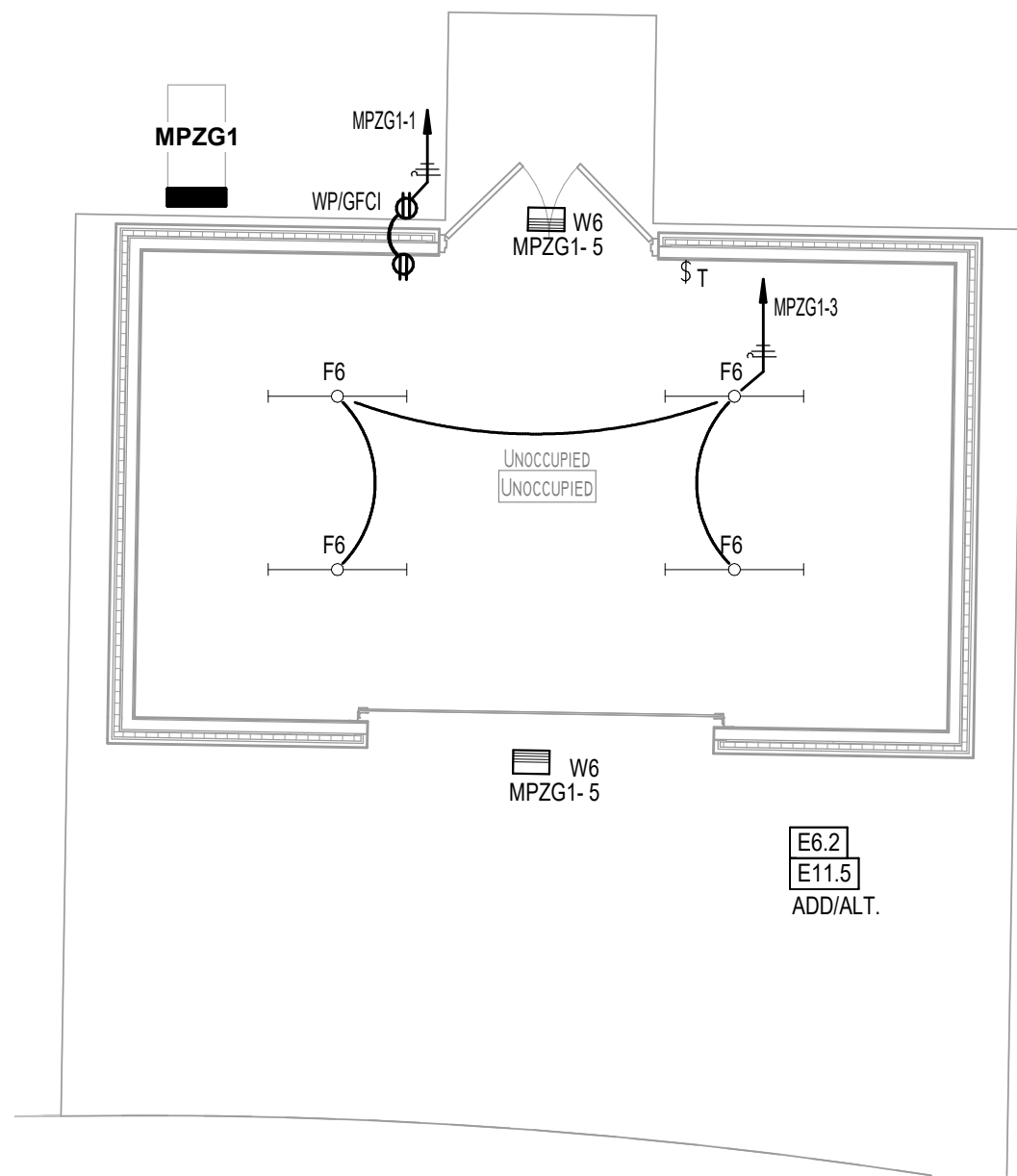
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SS TO DL - RT

Tomball Athletic Improvements



2 CREEKSIDE PARK JHS - STORAGE/ELECTRICAL ROOM
1/4" = 1'-0"



1 CREEKSIDE PARK JHS - STORAGE
3/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

- E6.2 PROVIDE (1) 120V CIRCUIT TO NEW STORAGE SHED (ALTERNATE).
- E8.3 PROPOSED LOCATION FOR SPORTS LIGHT POLES MANUAL OVERRIDE CONTROLS. FIELD COORDINATE EXACT LOCATION. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
- E10.3 APPROXIMATE LOCATION OF EXISTING MUSCO SPORTS LIGHTING CONTACTOR/CONTROLLER. INTEGRATE EXISTING CONTROLLER WITH BAS. REFER TO MUSCO SPORTS LIGHTING NOTES FOR MORE INFORMATION.
- E11.5 PROVIDE (1) 277V CIRCUIT FOR INTERIOR AND EXTERIOR LIGHTING FIXTURES OF NEW SHEDS AND PROVIDE LIGHTING CONTROLS (ALTERNATE).



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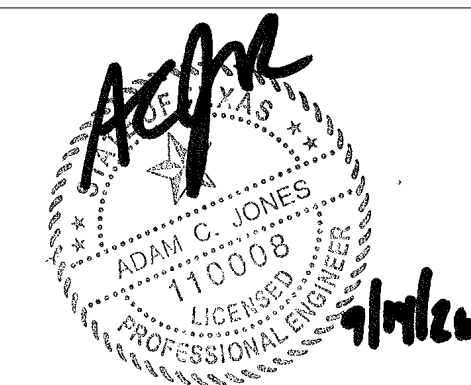
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Project Director:
Project Architect:
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Drawn By: Author

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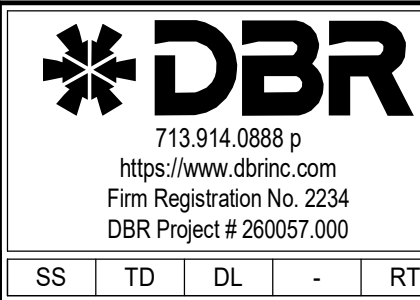
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SHEET TITLE

ELECTRICAL ENLARGED
PLANS - CREEKSIDE PARK
JHS

SHEET NO.

E3.01A



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TOMBALL, TEXAS

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ELECTRICAL SCHEDULES -
CREEKSIDE PARK JHS

SHEET NO.

E5.01A

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Tomball Athletic Improvements

LIGHTING FIXTURE SCHEDULE - CREEKSIDE PARK JHS

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	MUSCO NOTES	DESCRIPTION
F6	DAYRITE	FSS-4-55L-840-UNV-DIMFSSWG4FRR-126	SURFACE	LED	120 V	42 VA	N/A	4" UTILITY STRIP WITH WIRE GUARD. SURFACE MOUNT OR SUSPEND WITH 54" CHAIN AS NEEDED.
SLF1	MUSCO	TLC-LED-1500 (REFER TO MUSCO STRUCTURE/FIXTURE SUMMARY ID AND SHOP DRAWINGS)	RECESSED	LED	480 V	12000 VA	2	PROVIDE ALL COMPATIBLE MATERIALS (INCLUDING BRACKETS AND HARDWARE) FOR MOUNTING TO EXISTING POLE AS REQUIRED. FIELD COORDINATE MOUNTING REQUIREMENTS, NUMBER OF FIXTURES, HEIGHT, AND LOCATION WITH MANUFACTURER AND SHOP DRAWINGS. INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS AND REQUIREMENTS. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.
SLS1	MUSCO	TLC-LED (REFER TO MUSCO STRUCTURE/FIXTURE SUMMARY ID AND SHOP DRAWINGS)	RECESSED	LED	480 V	550 VA	1, 2	PROVIDE ALL COMPATIBLE MATERIALS (INCLUDING BRACKETS AND HARDWARE) FOR MOUNTING TO EXISTING POLE AS REQUIRED. FIELD COORDINATE MOUNTING REQUIREMENTS, NUMBER OF FIXTURES, HEIGHT, AND LOCATION WITH MANUFACTURER AND SHOP DRAWINGS. INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS AND REQUIREMENTS. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.
SLT1	MUSCO	TLC-LED (REFER TO MUSCO STRUCTURE/FIXTURE SUMMARY ID AND SHOP DRAWINGS)	RECESSED	LED	480 V	1150 VA	1, 2	PROVIDE ALL COMPATIBLE MATERIALS (INCLUDING BRACKETS AND HARDWARE) FOR MOUNTING TO EXISTING POLE AS REQUIRED. FIELD COORDINATE MOUNTING REQUIREMENTS, NUMBER OF FIXTURES, HEIGHT, AND LOCATION WITH MANUFACTURER AND SHOP DRAWINGS. INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS AND REQUIREMENTS. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 80% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.
W6	GARDCO	GWM-A08-740-T3M-UNV-DLEA-FINISH-Wattstopper FSP211	WALL	LED	120 V	30 VA	N/A	EXTERIOR WALL PACK WITH OCC DAYLIGHT SENSOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

NOTES:

- LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

MUSCO SPORTS LIGHTING NOTES:

1. PROVIDE NEW SPORTS LIGHTING POLE CONTACTOR/CONTROLLER MOUNTED ON POLE AND ASSOCIATED POWER AND CONTROLS. PROVIDE WITH INTEGRAL STEP-DOWN TRANSFORMER FOR 120V CONTROLS ON POLE. IN ADDITION TO CONTROLS ON POLE, PROVIDE REMOTELY LOCATED MANUAL ON/OFF OVERRIDE CONTROL OF LIGHTS. REFER TO POWER PLANS FOR PROPOSED LOCATION, AND PROVIDE CONDUITS AND WIRE FROM THIS LOCATION TO EACH POLE LIGHT. (1" CONDUIT FOR CONTACTOR CONTROL WIRING ONLY IF DIMMING FROM THE MANUAL SWITCH AND (1/2" CONDUIT FOR DIMMING WIRES). COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS AND MANUAL. PROVIDE (1/2" CONDUIT FROM POLE TO FIELD HOUSE BUILDING MDR ROOM FOR DATA (NETWORK). COORDINATE WITH TECHNOLOGY INSTALLER. COORDINATE ALL LOCATIONS, ROUTING, AND MOUNTING REQUIREMENTS AND HEIGHT WITH EXISTING SITE CONDITIONS AND UTILITIES.

2. CONNECT LIGHTING CONTROLS TO THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) TO CONTROL LIGHTS BASED ON TIME SCHEDULE. FIELD VERIFY ALL ELECTRICAL REQUIREMENTS INCLUDING VOLTAGE/PHASE, CONTROL SIGNAL, INPUT/OUTPUT TYPES (N.O./C.) AND PROGRAMMING SETTINGS TO BE COMPATIBLE WITH EXISTING BAS AND AVAILABLE POINTS/SPACES OR REQUIREMENTS FOR EXISTING BAS EXPANSION. PROVIDE BAS MODULES/RELAYS AS REQUIRED. FIELD VERIFY ALL LOCATIONS AND EXISTING AVAILABLE POINTS/SPACES. COORDINATE ALL REQUIREMENTS WITH THE MECHANICAL CONTROLS INSTALLER/MANUFACTURER AND SPORTS LIGHTING INSTALLER/MANUFACTURER.

FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"
40A	1	4#8, 1#10 G.	1"
50A	1	4#8, 1#10 G.	1"
60A	1	4#6, 1#10 G.	1"
70A	1	4#4, 1#8 G.	1 1/4"
80A	1	4#4, 1#8 G.	1 1/4"
90A	1	4#3, 1#8 G.	1 1/4"
100A	1	4#3, 1#8 G.	1 1/4"
125A	1	4#1, 1#6 G.	1 1/2"
150A	1	4#1/0, 1#6 G.	1 1/2"
175A	1	4#2/0, 1#6 G.	2"
200A	1	4#3/0, 1#6 G.	2"
225A	1	4#4/0, 1#4 G.	2 1/2"
250A	1	4#250, 1#4 G.	2 1/2"
300A	1	4#350, 1#4 G.	3"
350A	1	4#500, 1#3 G.	3 1/2"
400A	1	4#600, 1#3 G.	4"
450A	2	4#4/0, 1#2 G.	2 1/2"
500A	2	4#250, 1#2G.	2 1/2"
600A	2	4#350, 1#1G.	3"
700A	2	4#500, 1#10G.	4"
800A	2	4#600, 1#10G.	4"
1000A	3	4#500, 1#20G.	4"
1200A	4	4#350, 1#30G.	3"
1600A	4	4#600, 1#40G.	4"
	5	4#500, 1#40G.	4"
2000A	5	4#600, 1#250 G.	4"
	6	4#500, 1#250 G.	4"
2500A	6	4#600, 1#350 G.	4"
3000A	7	4#500, 1#350 G.	4"
	8	4#500, 1#400 G.	4"
3500A	9	4#600, 1#500 G.	4"
	10	4#500, 1#500 G.	4"
4000A	10	4#600, 1#500 G.	4"
	11	4#500, 1#500 G.	4"
5000A	12	4#600, 1#750 G.	4"
	14	4#500, 1#750 G.	4"

- ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- GROUND NOT REQUIRED AT SERVICE LATERAL.

1-PHASE 3-WIRE
FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"
40A	1	3#8, 1#10 G.	3/4"
50A	1	3#8, 1#10 G.	3/4"
60A	1	3#6, 1#10 G.	1"
70A	1	3#4, 1#8 G.	1"
80A	1	3#4, 1#8 G.	1"
90A	1	3#3, 1#8 G.	1 1/4"
100A	1	3#3, 1#8 G.	1 1/4"
125A	1	3#1, 1#6 G.	1 1/4"
150A	1	3#1/0, 1#6 G.	1 1/2"
175A	1	3#2/0, 1#6 G.	1 1/2"
200A	1	3#3/0, 1#6 G.	2"
225A	1	3#4/0, 1#4 G.	2"
250A	1	3#250, 1#4 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"
350A	1	3#500, 1#3 G.	3"
400A	1	3#600, 1#3 G.	3 1/2"
450A	2	3#4/0, 1#2 G.	2"
500A	2	3#250, 1#2G.	2 1/2"
600A	2	3#350, 1#1G.	3"
700A	2	3#500, 1#10G.	3 1/2"
800A	2	3#600, 1#10G.	3 1/2"
1000A	3	3#500, 1#20G.	3"
1200A	4	3#350, 1#30G.	3"
1600A	4	3#600, 1#40G.	3 1/2"
	5	3#500, 1#40G.	3"
2000A	5	3#600, 1#250G.	3 1/2"
	6	3#500, 1#250G.	3"
2500A	6	3#600, 1#350G.	3 1/2"
	7	3#500, 1#350G.	3 1/2"
3000A	8	3#500, 1#400G.	3 1/2"
	9	3#600, 1#500G.	3 1/2"
3500A	10	3#500, 1#500G.	3 1/2"
	10	3#600, 1#500G.	3 1/2"
4000A	11	3#500, 1#500G.	3 1/2"
	11	3#600, 1#500G.	3 1/2"

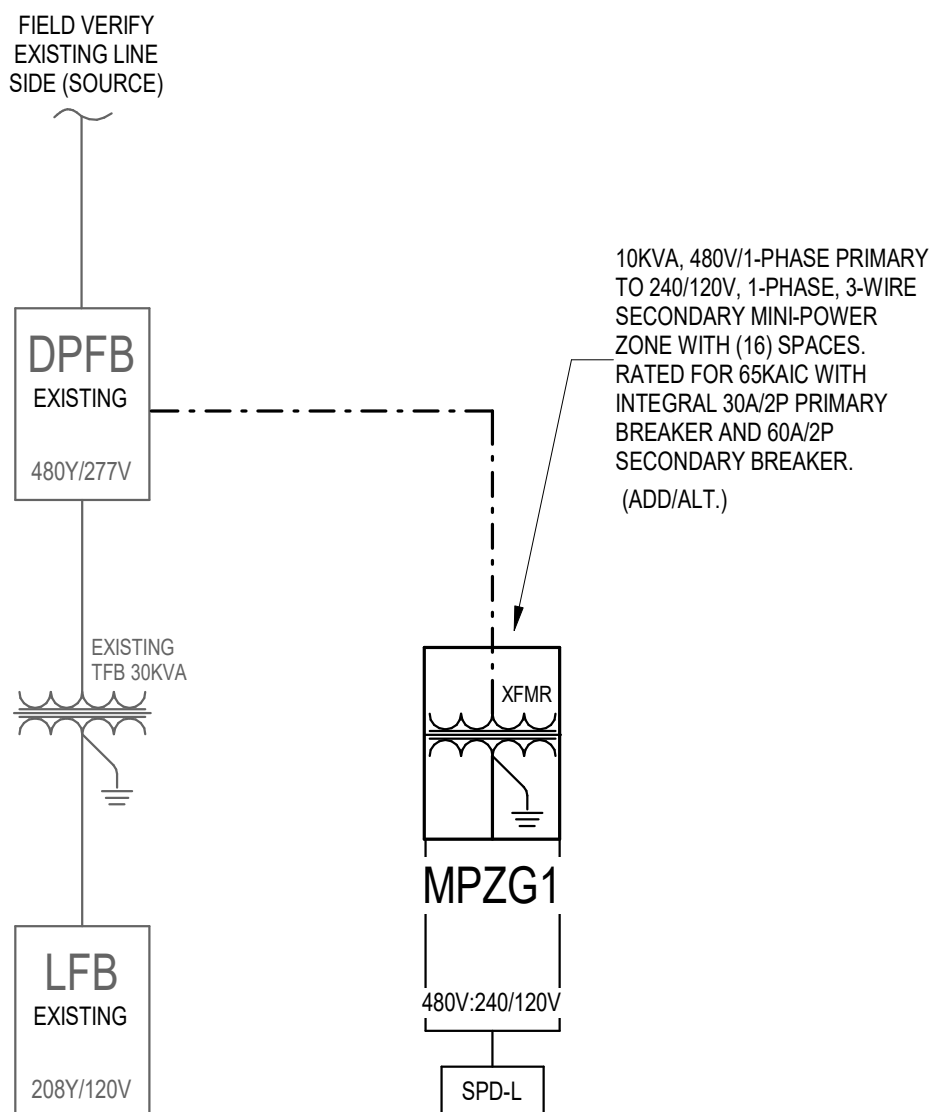
- ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- GROUND NOT REQUIRED AT SERVICE LATERAL.

TRANSFORMER FEEDER SCHEDULE - HARMONIC MITIGATING - 3 PHASE

PRIMARY VOLTAGE				SECONDARY VOLTAGE			
480V, THREE PHASE				120/208V, THREE PHASE, FOUR WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	G.E.C. SIZE
15	3 #10, 1 #10 G.	3/4"	25A/3P	3 #6, 1 #4N, 1 #8G.	1"	60A/3P	#8
30	3 #8, 1 #10 G.	1"	45A/3	3 #3, 1 #10N, 1 #8G.	1 1/4"	100A/3P	#8
45	3 #4, 1 #8 G.	1"	70A/3P	3 #1/0, 1 #40N, 1 #6G.	2"	150A/3P	#6
75	3 #1, 1 #6 G.	1 1/4"	125A/3P	3 #250, 2 #30N, 1 #2G.	3"	250A/3P	#2
112.5	3 #2/0, 1 #6 G.	1 1/2"	175A/3P	3 #500, 2 #300N, 1 #1/0G.	4"	400A/3P	#1/0
150	3 #4/0, 1 #4 G.	2"	225A/3P	(2) SETS OF 3 #250, 2 #30N, 1 #1/0G.	3"	500A/3P	#1/0
225	3 #500, 1 #3 G.	3"	350A/3P	(2) SETS OF 3 #500, 2 #300N, 1 #3/0G.	4"	800A/3P	#3/0
300	(2) SETS OF 3 #4/0, 1#2G.	2 1/2"	450A/3P	(3) SETS OF 3 #500, 2 #250N, 1 #3/0G.	3 1/2"	1000A/3P	#3/0
500	(2) SETS OF 3 #500, 1#1/0G.	3"	800A/3P	(5) SETS OF 3 #500, 2 #300N, 1 #3/0G.	3 1/2"	1800A/3P	#3/0

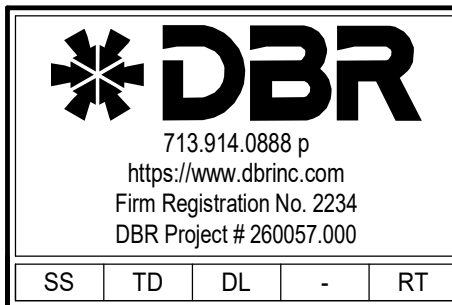
NOTE:

-ALL CONDUCTORS SHALL BE COPPER



CREEKSIDE PARK JHS -
PARTIAL ONE-LINE

1 EOL Diagram - CREEKSIDE PARK JHS
12" = 1'-0"





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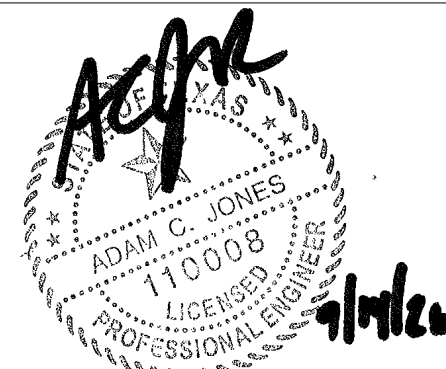
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TOMBALL, TEXAS
ISD

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SHEET TITLE

ELECTRICAL PANEL
SCHEDULES - CREEKSIDE
PARK JHS

SHEET NO.

E5.02A

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Mini Power Zone (CPJHS) Panelboard MPZG1											
65,000 AMPS AIC Rating											
X New											
240/120 Volt, 1 Phase, 3 Wire			Mains Type:			60 A MCB			LUGS: --		
1 Section			MCB			100 A BUS (Copper)			--		
Type 3R -Nema Rating									Mounting Style: SURFACE		
LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
360 VA	R	RCPT. STORAGE	12	20 A	1	2	--	Space	--	0 VA	
168 VA	L	STORAGE LIGHTING	12	20 A	3	4	--	Space	--	0 VA	
60 VA	EL	EXTERIOR STORAGE LGT.	12	20 A	5	6	--	Space	--	0 VA	
0 VA	--	Space	12	--	7	8	--	Space	--	0 VA	
0 VA	--	Space	12	--	9	10	--	Space	--	0 VA	
0 VA	--	Space	12	--	11	12	--	Space	--	0 VA	
0 VA	--	Space	12	--	13	14	--	SPD	--	0 VA	
0 VA	--	Space	12	--	15	16	--		--	0 VA	
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity		
220.47	(R)Receptacle	360 VA	100.00%	360 VA	210.20A	(L)Lighting	168 VA	125.00%	210 VA		
220.56	(K)Kitchen	Not Computed	0.00%	Not Computed		(EL)Ext. Ltg.	60 VA	125.00%	75 VA		
220.60	(C)Cooling	Not Computed	0.00%	0 VA	620.14	(E)Elevators	Not Computed	0.00%	Not Computed		
220.60	(H)Heating	Not Computed	0.00%	Not Computed	220.50	(WH)Wat. Htr.	Not Computed	0.00%	Not Computed		
220.60	(F)Fans	Not Computed	0.00%	Not Computed		(MT)Lrg. Motor	Not Computed	0.00%	Not Computed		
	(M)Misc.	Not Computed	0.00%	Not Computed	630.11B	(SP)Sub Pnt.	Not Computed	0.00%	Not Computed		
						(W)Welders	Not Computed	0.00%	Not Computed		
Total Connected Load:		588 VA	VA =	2 A	Location of Panel:						
Total Load (Diversified):		645 VA	VA =	2 A							

Panelboard DPFB											
65000 A AIC Rating											
X New											
480/277 Wye Volt, 3 Phase, 4 Wire			Mains Type:			400 A MCB			LUGS: --		
1 Section			MCB			400 A BUS (Copper)			--		
Type 1 -Nema Rating									Mounting Style: SURFACE		
LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
12000 VA	--	STADIUM LTG POLE #1	4	70 A	3	4	70 A	STADIUM LTG POLE #2	--	12000 VA	1
12000 VA	--	STADIUM LTG POLE #3	4	70 A	9	10	70 A	STADIUM LTG POLE #4	--	12000 VA	1
2000 VA	--	SECURITY LTG	12	20 A	13	14	50 A	TFB(E)	--	25000 VA	1
1000 VA	--	LIGHTING(E)	12	20 A	19	20					
845 VA	--	MPZG1 - CREEKSIDE PARK JHS STORAGE	10	30 A	21	22	20 A	BOOSTER PUMP(E)	--	11639 VA	1
0 VA	--	Space	12	--	25	26					
0 VA	--	Space	12	--	27	28	30 A	TRACK LIGHTING	--	1150 VA	2
0 VA	--	Space	12	--	29	30					
0 VA	--	Space	12	--	31	32					
0 VA	--	Space	12	--	33	34	30 A	TRACK LIGHTING	--	1150 VA	2
0 VA	--	Space	12	--	35	36					
0 VA	--	Space	12	--	37	38	--	Space	--	0 VA	1
0 VA	--	Space	12	--	39	40	--	Space	--	0 VA	1
0 VA	--	Space	12	--	41	42	--	Space	--	0 VA	1
0 VA	--	Space	12	--	43	44	--	Space	--	0 VA	1
9000 VA	--	CONCESSION STAND (E)	12	20 A	45	46	--	Space	--	0 VA	1
					47	48	--	Space	--	0 VA	1
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity		
220.47	(R)Receptacle	Not Computed	0.00%	Not Computed	210.20A	(L)Lighting	Not Computed	0.00%	Not Computed		
220.56	(K)Kitchen	Not Computed	0.00%	Not Computed		(EL)Ext. Ltg.	Not Computed	0.00%	Not Computed		
220.60	(C)Cooling	Not Computed	0.00%	0 VA	620.14	(E)Elevators	Not Computed	0.00%	Not Computed		
220.60	(H)Heating	Not Computed	0.00%	Not Computed		(WH)Wat. Htr.	Not Computed	0.00%	Not Computed		
220.60	(F)Fans	Not Computed	0.00%	Not Computed	220.50	(MT)Lrg. Motor	Not Computed	0.00%	Not Computed		
	(M)Misc.	Not Computed	0.00%	Not Computed		(SP)Sub Pnt.	Not Computed	0.00%	Not Computed		
					630.11B	(W)Welders	Not Computed	0.00%	Not Computed		
Total Connected Load:		99584 VA	VA =	120 A	Location of Panel:						
Total Load (Diversified):		99584 VA	VA =	120 A							

Panelboard LFB											
10000 A AIC Rating											
X New											
120/208 Wye Volt, 3 Phase, 4 Wire			Mains Type:			100 A MCB			LUGS: --		
1 Section			MCB			100 A BUS (Copper)			--		
Type 1 -Nema Rating									Mounting Style: SURFACE		
LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
500 VA	--	RCPT(E)	12	20 A	1	2	20 A	EXISTING LOAD	--	500 VA	1
2496 VA	--	A/C UNIT(E)	12	20 A	3	4	20 A	EXISTING LOAD	--	500 VA	1
5764 VA	--	EXISTING LOAD	12	20 A	5	6	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	Space	12	20 A	7	8	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	Space	12	20 A	9	10	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	PLAY CLOCK FIELD (E)	12	20 A	11	12	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - CTR BLEACHERS(E)	12	20 A	13	14	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - CTR BLEACHERS(E)	12	20 A	15	16	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	PLAY CLOCK FIELD(E)	12	20 A	17	18	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - T&F PLAY CLOCK(E)	12	20 A	19	20	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - T&F PLAY CLOCK(E)	12	20 A	21	22	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - T&F PLAY CLOCK(E)	12	20 A	23	24	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	RCPT - PRESSBOX(E)	12	20 A	25	26	--	Space	--	0 VA	1
0 VA	--	CONTRACTOR CONTROLS(E)	12	20 A	27	28	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	EXISTING LOAD	12	20 A	29	30	20 A	EXISTING LOAD	--	500 VA	1
0 VA	--	SCOREBOARD(E)	12	20 A	31	32	--	Space	--	0 VA	1
0 VA	--	Space	12	--	33	34	--	Space	--	0 VA	1
0 VA	--	Space	12	--	35	36	--	Space	--	0 VA	1
0 VA	--	Space	12	--	37	38	--	Space	--	0 VA	1
0 VA	--	Space	12	--	39	40	--	Space	--	0 VA	1
0 VA	--	Space	12	--	41	42	--	Space	--	0 VA	1
0 VA	--	Space	12	--	43	44	--	Space	--	0 VA	1
0 VA	--	Space	12	--	45	46	--	Space	--	0 VA	1
0 VA	--	Space	12	--	47	48	--	Space	--	0 VA	1
0 VA	--	MAIN CIRCUIT BREAKER(E)	3	100 A	49	50	20 A	EXISTING LOAD	--	500 VA	1
					51	52	20 A	EXISTING LOAD	--	500 VA	1
					53	54	20 A	EXISTING LOAD	--	500 VA	1
NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity		
220.47	(R)Receptacle	Not Computed	0.00%	Not Computed	210.20A	(L)Lighting	Not Computed	0.00%	Not Computed		
220.56	(K)Kitchen	Not Computed	0.00%	Not Computed		(EL)Ext. Ltg.	Not Computed	0.00%	Not Computed		
220.60	(C)Cooling	Not Computed	0.00%	0 VA	620.14	(E)Elevators	Not Computed	0.00%	Not Computed		
220.60	(H)Heating	Not Computed	0.00%	0 VA		(WH)Wat. Htr.	Not Computed	0.00%	Not Computed		
220.60	(F)Fans	Not Computed	0.00%	Not Computed	220.50	(MT)Lrg. Motor	Not Computed	0.00%	Not Computed		
	(M)Misc.	Not Computed	0.00%	Not Computed		(SP)Sub Pnt.	Not Computed	0.00%	Not Computed		
					630.11B	(W)Welders	Not Computed	0.00%	Not Computed		
Total Connected Load:		21760 VA	VA =	60 A	Location of Panel:						
Total Load (Diversified):		21760 VA	VA =	60 A							

PANEL SCHEDULE GENERAL NOTES

A. ALL CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AVAILABILITY OF BREAKERS. CONTRACTOR SHALL UTILIZE EXISTING SPARE BREAKERS.

PANEL SCHEDULE NOTES

- EXISTING LOAD SHALL REMAIN.
- CONNECT NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER.
- PROVIDE NEW BREAKER IN EXISTING SPACE, SIZED AS INDICATED. UPDATE PANEL DIRECTORY CARD.
- REPLACE EXISTING SPARE BREAKER(S) WITH NEW BREAKER AS INDICATED. UPDATE PANEL DIRECTORY CARD.
- CHANGE EXISTING BREAKER TO A SPARE BREAKER. UPDATE PANEL DIRECTORY CARD.



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MECHANICAL GENERAL NOTES

- A. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS THAT WILL NOT INTERFERE WITH THE ARCHITECTURAL / STRUCTURAL CONDITIONS OF THE BUILDING AND WILL FIT INTO AVAILABLE SPACES. CONTRACTOR SHALL COORDINATE ALL WORK TO CONFORM TO THE ARCHITECTURAL, STRUCTURAL, FINISH CONDITIONS, EQUIPMENT MANUFACTURER / FIXTURE CUTSHEETS AND WITH OTHER TRADES, TO AVOID OBSTRUCTIONS, AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUTSHEETS PRIOR TO FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING FADS. CONTRACTOR SHALL OBTAIN ALL ARCHITECTURAL DRAWINGS AND STRUCTURAL DATA, LOCATIONS OF PIERS, BEAMS, COLUMNS, JOISTS, ETC., FROM STRUCTURAL DRAWINGS AND PROVIDE OFFSETS, RELOCATIONS, ETC., AS REQUIRED TO MEET THIS INTENT AT NO ADDITIONAL COST. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTING, INSULATION, AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- B. CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE ALL THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO ATTENTION FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND AT THEIR EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFORE. CAUSED BY SUCH DISCREPANCY, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES AND THOROUGHLY FAMILIARIZE THEMSELV WITH THE REQUIREMENTS OF THE CONTRACT. UPON COMMENCEMENT OF THE CONSTRUCTION FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY OR EXAMINATION AND ACCEPTS ALL CONDITIONS.
- C. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS (SUCH AS DRAWINGS AND SPECIFICATIONS), THE GREATER QUANTITY, THE BETTER QUALITY, THE LARGER SIZE, OR THE VALUE WITH THE GREATEST COST IMPACT SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DATA: DIMENSIONS, GAUGE THICKNESS, TEMPERATURES, PRESSURE, BTUH, SCHEDULE / TIME DURATION, ELECTRICAL RATING, MATERIAL, SAFETY RATING, ENERGY EFFICIENCY, ETC.
- D. CONTRACTOR SHALL PROVIDE A MECHANICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING MECHANICAL SYSTEM.
- E. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE LOCATED APPROXIMATELY IN GENERAL LOCATIONS SHOWN AND SHALL CONFORM TO ALL ARCHITECTURAL AND STRUCTURAL CONDITIONS. PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, OPENINGS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS ENSURING THAT ACCESS PANELS ARE NOT BLOCKED. EXPERIENCED CRAFTSMEN SHALL MAKE THE INSTALLATION IN A NEAT WORKMANSHIP-LIKE MANNER. EQUIPMENT SHALL BE AS SCHEDULED OR APPROVED EQUAL. EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES HAVING JURISDICTION, COORDINATE BETWEEN ALL TRADES PRIOR TO STARTING ANY WORK. PROVIDE ADEQUATE CLEARANCE FOR PROPER OPERATION, SERVICE/ MAINTENANCE, AIR FLOW, ETC. PIPING AND DUCTWORK ARE NOT PERMITTED IN ELECTRICAL, ELEVATOR MACHINE, TELECOM, IT, AND COMMUNICATION ROOMS. ALL ELEVATIONS INDICATED IN THIS WAY (S' - 4') ARE THE ELEVATIONS FROM THE FINISHED FLOOR DIRECTLY BELOW TO THE BOTTOM OF THE BARE PIPE OR DUCT.
- F. EXECUTE ALL WORK FOLLOWING LOCAL, STATE AND/OR NATIONAL CODES, ORDINANCES AND REGULATIONS GOVERNING THE PARTICULAR CLASS OF WORK INVOLVED. THE GOVERNING CODES ARE MINIMUM REQUIREMENTS. THE DRAWINGS AND/OR SPECIFICATIONS SHALL PREVAIL WHERE THE DRAWINGS ARE OR ACCOMPANYING SPECIFICATIONS EXCEED THE CODE REQUIREMENTS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
- H. CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED HVAC DUCTWORK AND PIPING FABRICATION SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT / ENGINEER. DURING THE INSTALLATIONS OF THE WORK, THE CONTRACTOR SHALL KEEP DETAILED RECORDS OF ANY AND ALL CHANGES MADE FROM THE WORK AS ACTUALLY INSTALLED. THESE RECORD DRAWINGS SHALL BE NOTED "AS-BUILT", AND SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW WITH ALL O&M MANUALS.
- I. PROPERLY SUPPORT ALL EQUIPMENT, DUCTWORK AND PIPING WITHIN THE BUILDING AND PROVIDE ADEQUATE PROVISIONS FOR SLOPE AND ANCHORAGE. CONTRACTOR SHALL USE HANGERS, ROOFS AND INSERTS LISTED BY UNDERWRITERS LABORATORIES FOR THE SERVICE INTENDED, SECURELY SUPPORTED BY STRUCTURAL MEMBERS WHICH IN TURN ARE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE.
- J. CLEARANCE REQUIREMENTS BETWEEN MECHANICAL COMPONENTS AND SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS AND TRANSFORMERS SHALL CONFORM TO THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE.
- K. DUCTWORK AND PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, INSIDES CHASES / WALLS, ETC. IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE. CONFORM TO ALL ARCHITECTURAL, STRUCTURAL, AND FINISH CONDITIONS OF THE BUILDING. WHEREVER CONDITIONS ARISE WHICH WILL CAUSE NORMALLY CONCEALED MATERIALS TO BE EXPOSED, IMMEDIATELY CALL THE SITUATION TO THE ATTENTION OF THE ARCHITECT AND STOP WORK IN THOSE AREAS UNTIL THE ARCHITECT DIRECTS THE RESUMPTION OF THE WORK AND THE PROCEDURES TO BE FOLLOWED. ALL DUCTWORK, PIPING AND ASSOCIATED ACCESSORIES IN OCCUPIED AREAS THAT ARE EXPOSED TO VIEW SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS. IN ANY CASE WHERE A PIPE OR DUCT SHOWN ON THE PLAN SHEET DIFFERS FROM THAT SHOWN IN A SCHEMATIC OR DETAIL, PROVIDE THE LARGER OF THE TWO SIZES SHOWN.
- L. SLOPE AND ARRANGE HVAC PIPING TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINAGE. PROVIDE AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS. ALL PIPING SHOWN ON FLOOR PLANS SHALL BE ROUTED ABOVE THE CEILING ON THE FLOOR WHERE IT IS SHOWN, UNLESS OTHERWISE NOTED. ARRANGE PIPING CONNECTIONS TO ALL EQUIPMENT TO ALLOW EASY REMOVAL OF EQUIPMENT, COILS, FANS, MOTORS, FILTERS, ACCESS PANELS, ETC. PROVIDE UNIONS, FLANGES, AND VALVES AT CONNECTIONS. ALL EXTERIOR PIPING SHALL BE INSULATED AND JACKETED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PIPING RANOUTS TO TERMINAL UNITS SHALL BE 3/4" UNLESS OTHERWISE NOTED. MINIMUM PIPE SIZE FOR THE PROJECT SHALL BE 3/4".
- M. WALL MOUNTED THERMOSTATS / HUMIDISTATS / SENSORS SHALL BE MOUNTED AT 42" A.F.F., APPROX. WHERE INDICATED ON PLANS, UNLESS OTHERWISE NOTED. SENSOR LOCATION SHALL BE MAX 12" FROM END OF WALL AND/OR DOOR JAMB. COORDINATE EXACT LOCATIONS WITH ARCHITECT, ELECTRICAL CONTRACTOR, AND BETWEEN OTHER TRADES PRIOR TO MOUNTING. DO NOT MOUNT ABOVE DAMPERS. THERMOSTATS ON EXTERIOR WALLS OR WALLS SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE SHALL BE INSULATED. THERMOSTATS / HUMIDISTATS / SENSORS SHALL NOT BE INSTALLED ON DECORATIVE WALLS.
- N. FIRE, SMOKE, AND FIRE/SMOKE DAMPERS SHALL BE INSTALLED AS INDICATED AND WHERE OTHERWISE REQUIRED BY LOCAL CODES AND ORDINANCES. REFER TO ARCHITECTURAL DRAWINGS / BUILDING CODE SUMMARY / LIFE SAFETY PLANS FOR LOCATIONS OF ALL FIRE RESISTANT / RATED WALLS, CEILINGS, CHASES, SHAFTS, SMOKE COMPARTMENTS, AND LOCATIONS OF EGRESS CORRIDORS. DAMPER SIZES INDICATED ARE CLEAR INSIDE, AIRSTREAM DIMENSIONS. PROVIDE MEANS TO ADEQUATELY SERVICE THE DAMPER'S FUSIBLE LINKS. PROVIDE 12" X 12" MINIMUM METAL ACCESS DOORS IN ALL GYPOBOARD AND PLASTER CEILINGS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND UL LISTING FOR SERVICE INTENDED. PROVIDE METAL SLEEVES AS REQUIRED. PROVIDE ACCESS DOORS IN DUCTWORK AT ALL FIRE, SMOKE, AND FIRE/SMOKE DAMPERS. ALL SMOKE AND FIRE/SMOKE DAMPERS REQUIRE INTEGRAL SMOKE DETECTORS AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS AND CODE.
- R. HVAC SYSTEMS SHALL BE INSTALLED COMPLETE WITH ALL BALANCING AND REGULATING DEVICES NECESSARY FOR THE TAB CONTRACTOR TO PERFORM THEIR WORK. COORDINATE WITH THE TAB CONTRACTOR TO DETERMINE THEIR EXACT REQUIREMENTS. ALL HVAC SYSTEMS SHALL BE STARTED PER MANUFACTURER'S START-UP INSTRUCTIONS. REPLACE FILTERS, BELTS, SHEAVES, DAMPERS, VALVES, STARTERS AND HEATERS AS NECESSARY PRIOR TO TAB.
- S. CONTRACTOR SHALL PROVIDE ALL TESTING, ADJUSTING, AND BALANCING WORK TO INCLUDE, BUT NOT LIMITED TO, ADJUSTMENT OF DAMPERS, BALANCE AIR DEVICES, VERIFY CORRECT SETPOINT AND CALIBRATION OF THERMOSTATS, VERIFY ALL SEQUENCE OF OPERATION, STAGING OF COOLING/ HEATING AS APPLICABLE, BALANCE OF CONDENSER AND HEATING WATER SYSTEMS, PUMPS, BOILERS, COOLING TOWERS, NOTE DEFICIENCIES IN MECHANICAL SYSTEM, ETC. FOR A CORRECTLY OPERATING MECHANICAL SYSTEM. CONTRACTOR SHALL REPLACE ALL FILTERS AND CLEAN ALL STRAINERS. TESTING AND BALANCING SUBCONTRACTOR MUST BE A MEMBER IN GOOD STANDING OF AABC AND SUBMIT REPORT ON AABC OR SMACNA FORMS FOR APPROVAL BY THE ENGINEER. PROVIDE A TEST AND BALANCE REPORT TO THE MECHANICAL INSPECTOR AT TIME OF HEATING FINAL INSPECTION. TAB CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO LOCATE DP SENSORS IN PIPING FOR PUMPING SYSTEMS AND STATIC PRESSURE SENSORS IN DUCTWORK FOR FAN SYSTEMS.
- T. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS. CONTRACTOR SHALL ENSURE THE FURNISHING AND INSTALLATION OF ALL BRANCH ELECTRICAL CIRCUIT WIRING, CONDUITS, PROTECTIVE DEVICES, DISCONNECTS, AND ACCESSORIES FOR ALL ELECTRICAL CONTROL POWER WIRING TO INCLUDE, BUT NOT LIMITED TO, CONTROL PANELS, ACTUATORS, SMOKE DETECTORS, CONTROL / MOTORIZED DAMPER, PRESSURE MONITORS, FIRE/SMOKE DAMPERS, VARIABLE FREQUENCY DRIVES, VAV TERMINALS, (VAV TRANSFORMER) AND ALL OTHER 120V CONTROLS AS REQUIRED FOR A COMPLETE CONTROL SYSTEM WHETHER SHOWN TO BE PERFORMED BY OTHER OR NOT. ALL ELECTRICAL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH REQUIREMENTS OF ELECTRICAL SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE.
- U. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND SIZE OF LOUVERS. BLANK OFF AREA OF LOUVER NOT USED FOR INTAKE OR EXHAUST. LOUVERS SHALL BE DRAINABLE STATIONARY TYPE AND SHALL BE AMCA 500A CERTIFIED. LOUVERS LOCATED IN HURRICANE-PRONE REGIONS SHALL BE AMCA 550 CERTIFIED. LOUVERS LOCATED IN WIND-BOURNE DEBRIS REGIONS WITHIN 30 FEET OF GRADE SHALL BE AMCA 540 CERTIFIED.
- V. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FINISHES AND FURNISHINGS FROM DAMAGE DURING WORK.
- W. CONTRACTOR TO PROVIDE TEMPORARY SPACE CONDITIONING DURING ALL HVAC EQUIPMENT OUTAGES AND PRIOR TO HVAC EQUIPMENT START-UP.
- X. ALL PIPES, DUCTS, AND OTHER EQUIPMENT SHALL BE PROPERLY SUPPORTED BY GALVANIZED OR CADMIUM PLATED ANCHOR BOLTS, ALL THREAD ROOFS AND WASHERS, LOCK WASHERS OR DOUBLE NUTS, AND BOLTS.
- Y. INSTALLING CONTRACTOR SHALL STRICTLY ADHERE TO ANCHOR BOLT MANUFACTURER'S INSTALLATION RECOMMENDATIONS REGARDING PULL-OUT LOADS, ANCHOR DIAMETER AND DEPTH OF ANCHOR INSERTION FOR DRILLING THE ANCHOR POINT IN CONCRETE.
- Z. SUBMIT SUPPORT LOCATIONS AND LOADS OF PIPES GREATER THAN 6" DIAMETER TO STRUCTURAL ENGINEER FOR REVIEW.
- AA. POST-INSTALLED ANCHOR BOLTS ARE NOT PERMITTED TO BE INSTALLED IN THE SOFFIT OF BEAMS OR JOISTS.
- BB. POST-INSTALLED ANCHOR BOLTS INSTALLED ON THE SIDE OF BEAMS OR JOISTS SHALL BE LOCATED A MINIMUM OF 5" FROM BOTTOM OF THE BEAM OR JOIST.
- CC. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
- DD. ALL PIPING LOCATED INSIDE BUILDING SHALL BE SUPPORTED FROM THE STRUCTURE WITH SADDLE OR TRAPEZE HANGERS WITH ADJUSTABLE CLEVIS OR THREADED ROOFS.
- EE. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
- FF. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 15 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
- GG. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A LAVATORY / SINK DRAIN TAIL PIECE.



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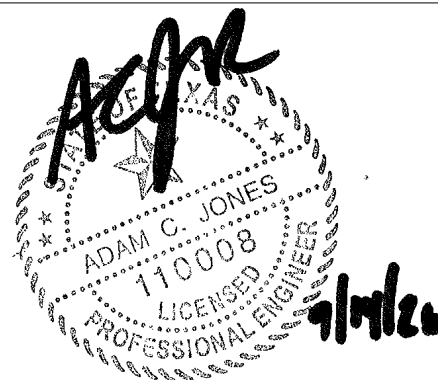
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Project Architect:

Project Designer:

Drawn By: Author

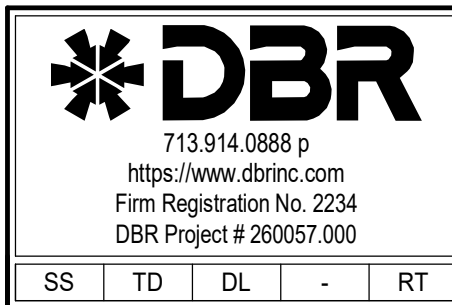
PROJECT NO.

25-0158.00

SHEET TITLE

MECHANICAL GENERAL NOTES

SHEET NO.



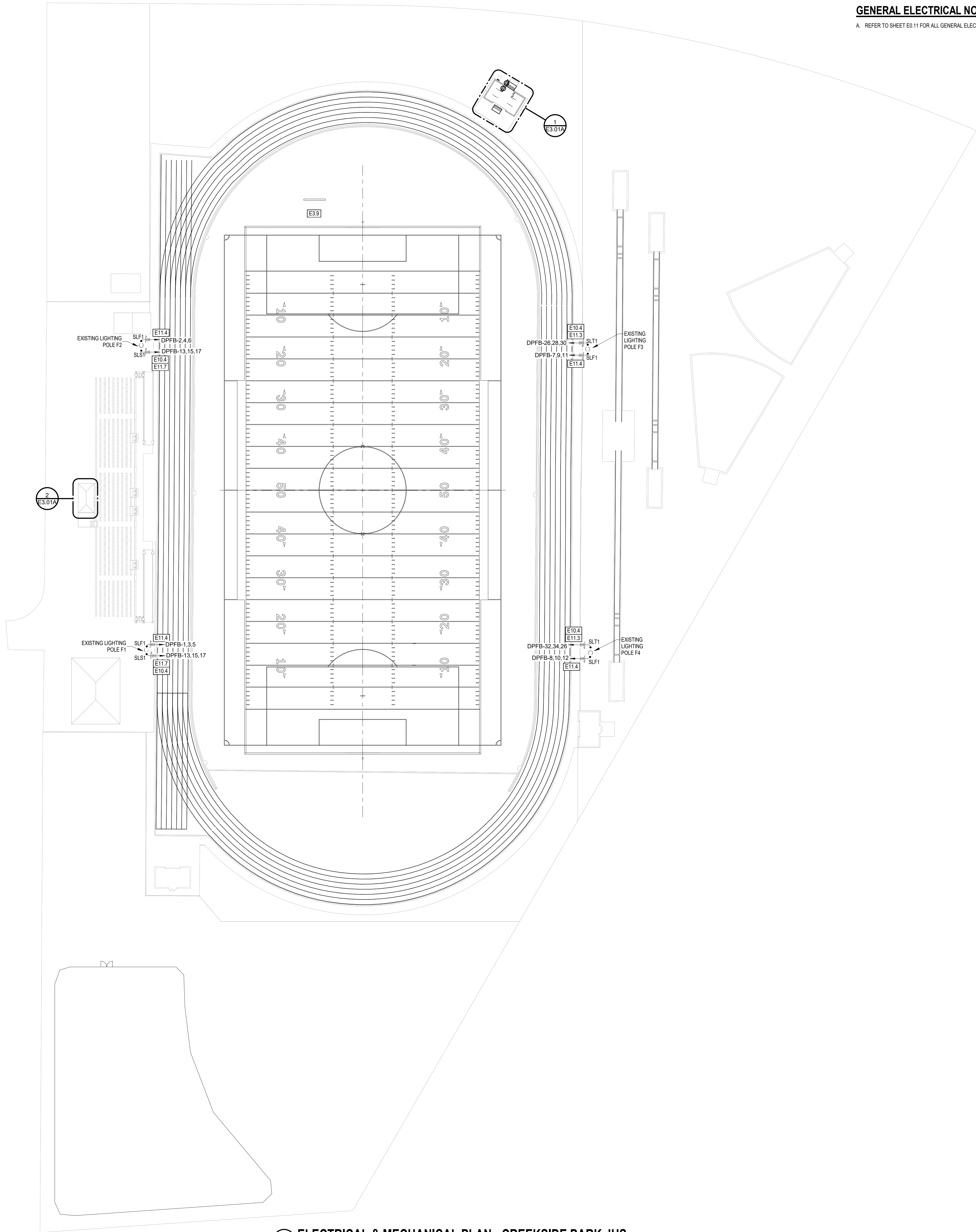
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M0.11

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TOMBALL ISD
TOMBALL, TEXAS

Tomball Athletic Improvements



GENERAL ELECTRICAL NOTE:
A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

- ☐ **ELECTRICAL KEYED NOTES**
- E3.9 SCOREBOARD TO BE UPGRADED. COORDINATE WITH SCOREBOARD EQUIPMENT PROVIDER FOR ELECTRICAL REQUIREMENTS (ALTERNATE).
- E10.4 APPROXIMATE LOCATION OF EXISTING SPORTS LIGHT POLE. PROVIDE WITH NEW CONTACTOR/CONTROLLER. INTEGRATE EXISTING CONTROLLER WITH BAS. REFER TO MUSCO SPORTS LIGHTING NOTES FOR MORE INFORMATION.
- E11.3 APPROXIMATE LOCATION OF EXISTING SPORTS LIGHT POLE. PROVIDE A NEW SINGLE TRACK LIGHT ON EXISTING LIGHTING POLE. FACING LONG JUMP AND POLE VAULT TRACKS AND INTEGRATE TO MUSCO CONTROLS. PROVIDE NEW BRANCH CIRCUIT CONDUITWIRE. COORDINATE EXACT LOCATION AND ROUTING WITH EXISTING SITE CONDITIONS AND UTILITIES.
- E11.4 APPROXIMATE LOCATION OF EXISTING SPORTS LIGHT POLE. PROVIDE NEW SPORTS LIGHTING FIXTURES ON EXISTING POLE AND ASSOCIATED POWER AS INDICATED. EXTEND AND RECONNECT TO EXISTING BRANCH CIRCUIT. COORDINATE ALL LOCATIONS AND ROUTING WITH EXISTING SITE CONDITIONS AND UTILITIES.
- E11.7 APPROXIMATE LOCATION OF EXISTING SPORTS LIGHT POLE. PROVIDE NEW SECURITY LIGHTS ON EXISTING POLE AND ASSOCIATED POWER AND CONTROLS AS INDICATED. EXTEND AND RECONNECT TO EXISTING BRANCH CIRCUIT. COORDINATE ALL LOCATIONS AND ROUTING WITH EXISTING SITE CONDITIONS AND UTILITIES.



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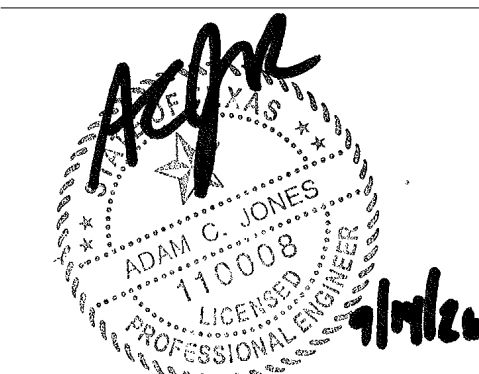
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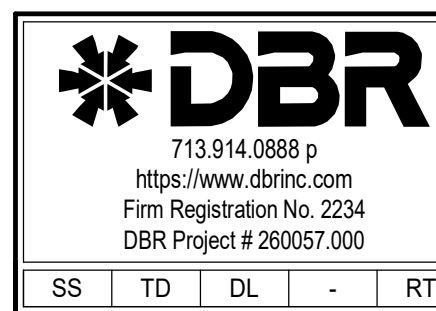
MECHANICAL/ELECTRICAL
SITE PLAN - CREEKSIDE
PARK JHS

SHEET NO.

ME1.21A

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1 ELECTRICAL & MECHANICAL PLAN - CREEKSIDE PARK JHS
1" = 30'-0"



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