PHARR-SAN JUAN-ALAMO ISD
SOFTBALL AND BASEBALL
FIELD UPGRADES

PSJA NORTH ECHS - PSJA MEMORIAL ECHS - PSJA SOUTHWEST ECHS - PSJA ECHS

August 7, 2019

PHARR-SAN JUAN-ALAMO ISD
SOFTBALL AND BASEBALL
FIELD UPGRADES

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED PROFESSIONAL ENGINEER
08/07/2019

BOARD OF TRUSTEES

PRESIDENT	VICE PRESIDENT	SECRETARY-TREASURER	ASSISTANT SECRETARY-TRESURER	MEMBER	MEMBER	MEMBER	SUPERINTENDENT
JESUS "JESSE" ZAMBRANO	JORGE "GEORGE" PALACIOS	JORGE ZAMBRANO	RICARDO "RICK" PEDRAZA	VICTOR PEREZ	JESUS "JESSE" VELA, JR.	CARLOS G. VILLEGAS, JR	DANIEL P. KING, PhD

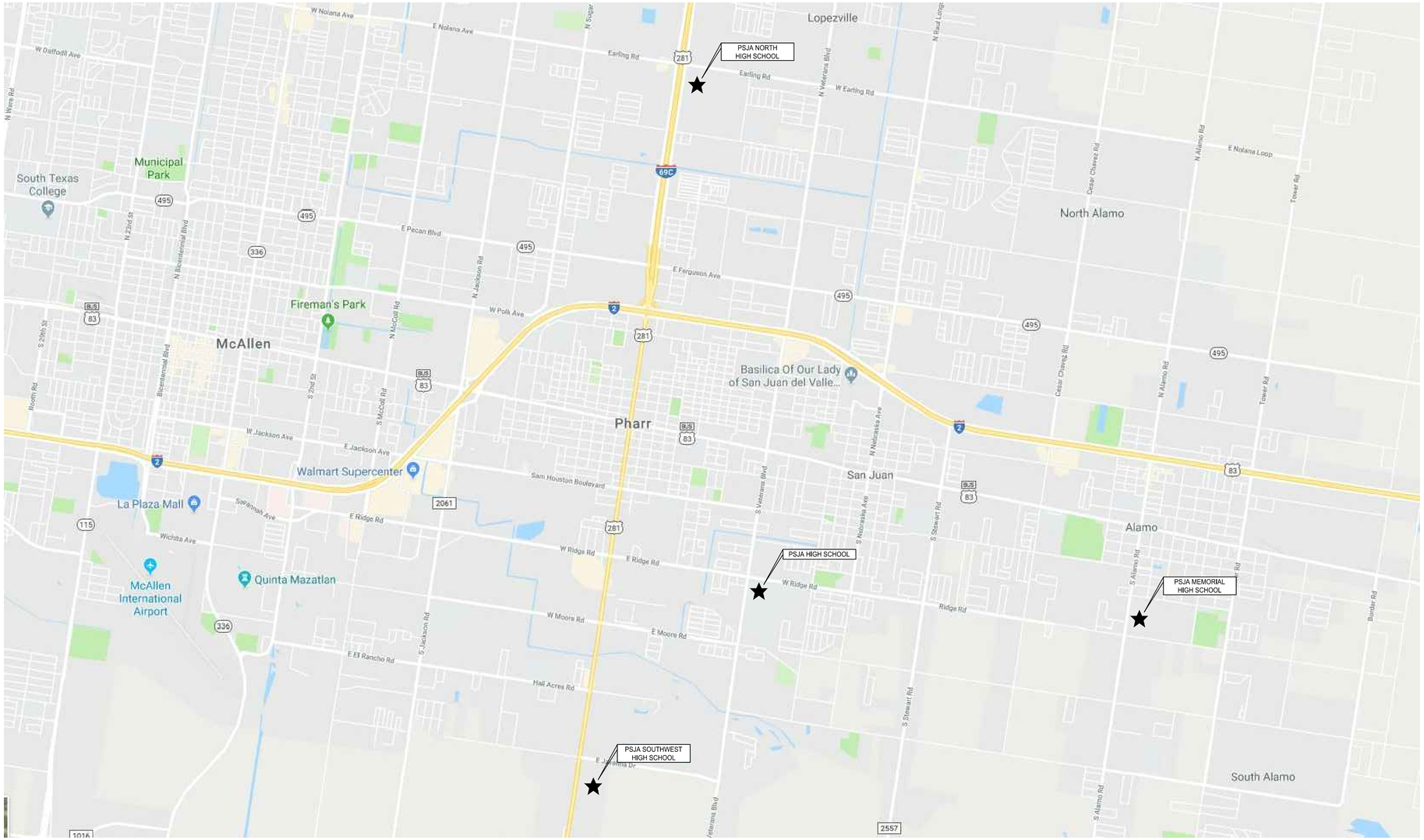
OWNER / PROJ. MAN.

PSJA ISD ADMINISTRATION BUILDING
601 E. KELLY
PHARR, TEXAS 78577
936-354-2000 P

ENGINEER

PBK ENGINEERS
CONTACT: TREY SCHNEIDER
11 GREENWAY PLAZA
22ND FLOOR
HOUSTON, TX 77046
713-965-0608 P
713-961-4571 F

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA-OVERALL COVER\CA 000 PSJA ISD Synthetic Turf Upgrades.dwg Last Saved: AGLUZMAN



SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	BASEBALL SURVEY
CA 003	SOFTBALL SURVEY
CA 004	BASEBALL EROSION CONTROL PLAN
CA 005	SOFTBALL EROSION CONTROL PLAN
CA 100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE AND UTILITY PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBALL DETAILS
CA 107	BASEBALL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE AND UTILITY PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 102	NORTH HS BASEBALL SITE PLAN
S 202	NORTH HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PSJA NORTH ECHS

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	BASEBALL SURVEY (FOR INFORMATION ONLY)
CA 003	EROSION CONTROL PLAN
CA100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBAL DETAILS
CA 107	BASEBAL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 101	MEMORIAL HS BASEBALL SITE PLAN
S 201	MEMORIAL HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PSJA MEMORIAL ECHS

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGEND
CA 002	BASEBALL SURVEY (FOR INFORMATION ONLY)
CA 003	SOFTBALL SURVEY (FOR INFORMATION ONLY)
CA 003	EROSION CONTROL PLAN
CA 100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE AND UTILITY PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBALL DETAILS
CA 107	BASEBALL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE AND UTILITY PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
CA 209	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S004	GENERAL NOTES
S 005	GENERAL NOTES
S 103	SOUTHWEST HS BASEBALL SITE PLAN
S 203	SOUTHWEST HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PSJA SOUTHWEST ECHS

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	SURVEY (FOR INFORMATION ONLY)
CA 003	SOFTBALL EROSION CONTROL PLAN
CA 100	DEMOLITION PLAN
CA 101	SOFTBALL SITE PLAN
CA 102	SOFTBALL DRAINAGE PLAN
CA 103	SOFTBALL SUBGRADE GRADING PLAN
CA 104	SOFTBALL STONE GRADING PLAN
CA 105	SOFTBALL IRRIGATION PLAN
CA 106	SOFTBALL DETAILS
CA 107	SOFTBALL DETAILS
CA 108	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 204	PSJA HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PSJA ECHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SOFTBALL AND BASEBALL FIELD UPGRADES

ISSUE FOR PROPOSALS
PROPOSAL #18-09-057

PSJA COLLEGE 3 READY.CONNECTED.COMPLETE.

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
ARCHITECT
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

OVERALL INDEX

CA 001

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\8-Dwgs\8a BIM CAD\03 Sports\PSJA-OVERALL COVER\CA 001 PSJA ISD Index.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:59:58 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PHARR-SAN JUAN-ALAMO ISD

PSJA NORTH ECHS

SOFTBALL AND BASEBALL FIELD UPGRADES

August 7, 2019



BOARD OF TRUSTEES

PRESIDENT	VICE PRESIDENT	SECRETARY-TREASURER	ASSISTANT SECRETARY-TRESURER	MEMBER	MEMBER	MEMBER	SUPERINTENDENT
JESUS "JESSE" ZAMBRANO	JORGE "GEORGE" PALACIOS	JORGE ZAMBRANO	RICARDO "RICK" PEDRAZA	VICTOR PEREZ	JESUS "JESSE" VELA, JR.	CARLOS G. VILLEGAS, JR	DANIEL P. KING, PhD

OWNER / PROJ. MAN.

PSJA ISD ADMINISTRATION BUILDING
CONTACT:
601 E. KELLY
PHARR, TEXAS 78577
936-354-2000 P

ENGINEER

PBK ENGINEERS
CONTACT: TREY SCHNEIDER
11 GREENWAY PLAZA
22ND FLOOR
HOUSTON, TX 77046
713-965-0608 P
713-961-4571 F



PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES
500 E NOLANA LOOP
PHARR, TX 78577
ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

CA 000

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SPID\v6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 000 COVER SHEET.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 8:45:02 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dlv8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 001 INDEX, NOTES AND LEGENDS.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:55:58 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE JOBSITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
6. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
7. TOPOGRAPHIC SURVEY BY: RIO DELTA SURVEYING
   TBPLS FIRM # 10013900
   24593 FM 88
   MONTE ALTO, TX 78538
   P: 956-262-0222 P: 956-380-5154
8. BENCHMARK: SEE SURVEY
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT, HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO INSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT HIS EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED. (800) 344-8377.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR SHALL COORDINATE THE RELOCATION AND PAY ANY FEES.
20. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS.
21. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
22. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
23. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

UTILITY NOTES

24. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
25. HE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
26. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
27. BEDDING AND BACKFILL SHALL BE SUBSIDIARY TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL WATER AND SEWER MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIALS AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE CONTRACTOR SHALL REPLACE THE DEFECTIVE MATERIAL WITH SOUND MATERIAL AT HIS OWN EXPENSE.
29. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
30. ALL STORM SEWER TO BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR / SMOOTH INTERIOR PIPE WITH WATER TIGHT JOINTS PER ASTM D 3212 UNLESS OTHERWISE OR SPECIFICALLY NOTED.
31. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS / SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE.
32. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" (SIX INCHES) VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND AT STORM SEWER AND SANITARY SEWER CROSSINGS, AND A MINIMUM OF 12" (TWELVE INCHES) VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
33. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
34. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED AT HIS EXPENSE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND/OR AS DIRECTED BY THE ENGINEER.

UTILITY NOTES

36. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
37. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
38. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
39. THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL AN INCIDENTAL AMOUNT FOR THE SAW CUTTING, REMOVAL AND REPLACEMENT OF PAVEMENT AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING PAVEMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT TYPE, THICKNESS AND GRADES.
40. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND WORK UPSTREAM. THE CONTRACTOR SHALL ALSO VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. PIPE SHALL BE INSTALLED WITH THE BELLS AT THE UPSTREAM END.
41. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL (800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
42. CAUTION: UNDERGROUND GAS FACILITIES
    GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 OR (800) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED
    * WHEN GAS LINE MARKINGS ARE NOT VISIBLE CALL (713) 967-8037 (7:00 AM-4:30 PM)
    FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
    * WHEN EXCAVATING WITHIN 18" OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
    * WHEN GAS FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

    THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
43. WARNING: OVERHEAD ELECTRICAL FACILITIES
    OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN 6' OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY 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 REMOVED CALL POWER COMPANY AT (713) 207-2222 (CENTERPOINT).

    WARNING: UNDERGROUND ELECTRICAL FACILITIES
    UNDERGROUND ELECTRICAL FACILITIES MAY EXIST ON THE PROPERTY. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL THE UCC AT 811, OR TOLL FREE AT (800) 669-8344, TO VERIFY THAT NO UNDERGROUND FACILITIES EXIST.
44. ALL UNDERGROUND PIPE SHALL HAVE A 12 GAUGE METALLIC TRACER WIRE RUNNING THE FULL LENGTH OF THE PIPE. TRACER WIRE SHALL BE TAPED TO THE PIPE AT INTERVALS NOT TO EXCEED 15 FEET USING DUCT TAPE.

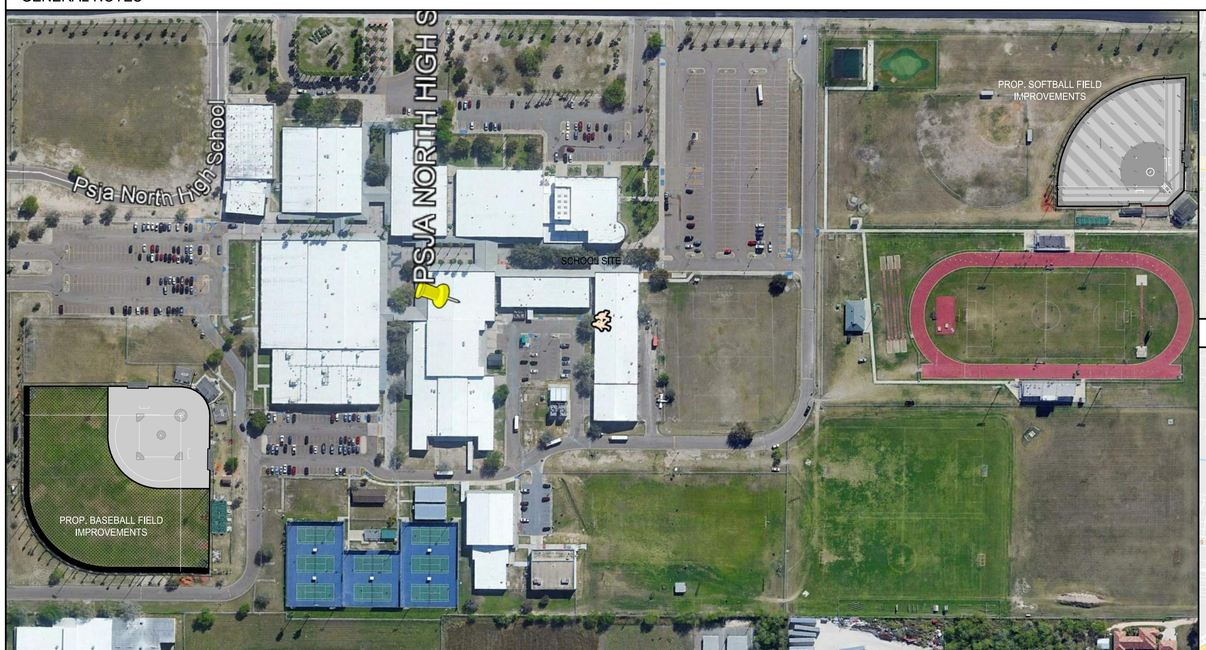
PAVING AND GRADING NOTES

45. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
46. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
47. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
48. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
50. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
51. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
52. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED, REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
53. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, INSTALL 3/4" SMOOTH DOWELS, (18" LONG AND 18" C-C), BY DRILLING 8" INTO THE CENTER OF THE EXISTING SLAB AND EMBEDDING WITH EPOXY. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
54. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
55. SECURE PRECAST CONCRETE WHEEL STOPS BY DRILLING AND SETTING #4 DOWELS INTO PAVEMENT.
56. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
57. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL NEW CURBS, DRIVES, MOW STRIPS AND /OR WALKS.
58. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
59. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.

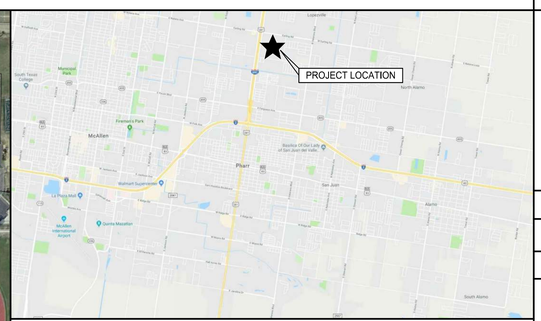
CIVIL LEGEND

201	PROPOSED CONTOUR
	PROPOSED CATCH BASIN (C-1)
	PROPOSED "A" INLET (A-1)
	PROPOSED "E" INLET (E-1)
	PROPOSED STORM MANHOLE W/ GRATE TOP
	PROPOSED MANHOLE
	PROPOSED H-2 OR JUNCTION BOX INLET
	GATE VALVE & BOX
	PIPE SLEEVES
	PROP. 45° EL
	TAPPING SLEEVE & VALVE
TC	TOP OF CURB ELEVATION
TP	TOP OF PAVEMENT ELEVATION
TG	TOP OF GRATE ELEVATION
TR	TOP OF RIM (MANHOLE)
FG	FINISH GRADE ELEVATION
FL	FLOWLINE ELEVATION
TFL	THROAT FLOWLINE ELEVATION ("E" INLET)
FH	FIRE HYDRANT
MH	MANHOLE
CO	CLEAN OUT
DCO	DOUBLE CLEAN OUT
DS	DOWNSPOUT COLLECTOR
NIC	NOT IN CONTRACT
RD	ROOF DRAIN COLLECTOR
GV	GATE VALVE
STM	STORM SEWER
SAN	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
FFF	FILTER FABRIC FENCE
RFB	REINFORCED FABRIC BARRIER
IPB	INLET PROTECTION BARRIER
X	EXPANSION JOINT
L	LONGITUDINAL CONSTRUCTION JOINT
LT	LONGITUDINAL-TIED CONSTRUCTION JOINT
T	TRANSVERSE CONTRACTION JOINT
S	SAWED PAVEMENT JOINT
UE	UTILITY EASEMENT
SSE	SANITARY SEWER EASEMENT
EP	EDGE OF PAVEMENT
HB	HIGH BANK OF DITCH
CL	CENTERLINE OF DITCH
PP	POWER POLE
GW	GUY WIRE
GM	GAS METER
PB	PHONE BOX
FC	FENCE CORNER
CB	CABLE BOX
NG	NATURAL GROUND
+TP XX.XX	EXISTING ELEVATION
+TP XX.XX	PROPOSED ELEVATION

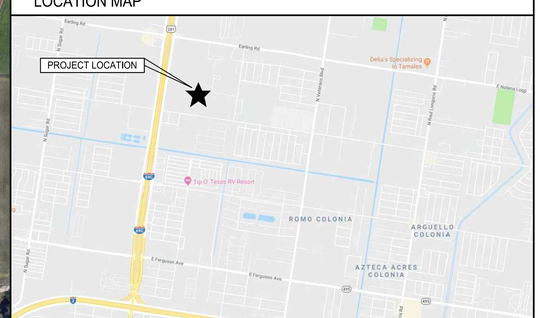
GENERAL NOTES



SITE PLAN



LOCATION MAP



VICINITY MAP

PERMITTING INFORMATION

PROJECT NAME:
PSJA NORTH EARLY COLLEGE HIGH SCHOOL
SYNTHETIC TURF BASEBALL INFIELD AND
SOFTBALL FIELD

LEGAL DESCRIPTION:
P.S.J.A. INDEPENDENT SCHOOL DISTRICT
PHARR HIGH SCHOOL LOT 1
ABST P001400

PHYSICAL ADDRESS:
500 E. NOLANA LOOP
PHARR, TX 78577

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	BASEBALL SURVEY
CA 003	SOFTBALL SURVEY
CA 004	BASEBALL EROSION CONTROL PLAN
CA 005	SOFTBALL EROSION CONTROL PLAN
CA 100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE AND UTILITY PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBALL DETAILS
CA 107	BASEBALL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE AND UTILITY PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 102	NORTH HS BASEBALL SITE PLAN
S 202	NORTH HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

INDEX OF DRAWINGS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
SURVEYOR
08/07/2019

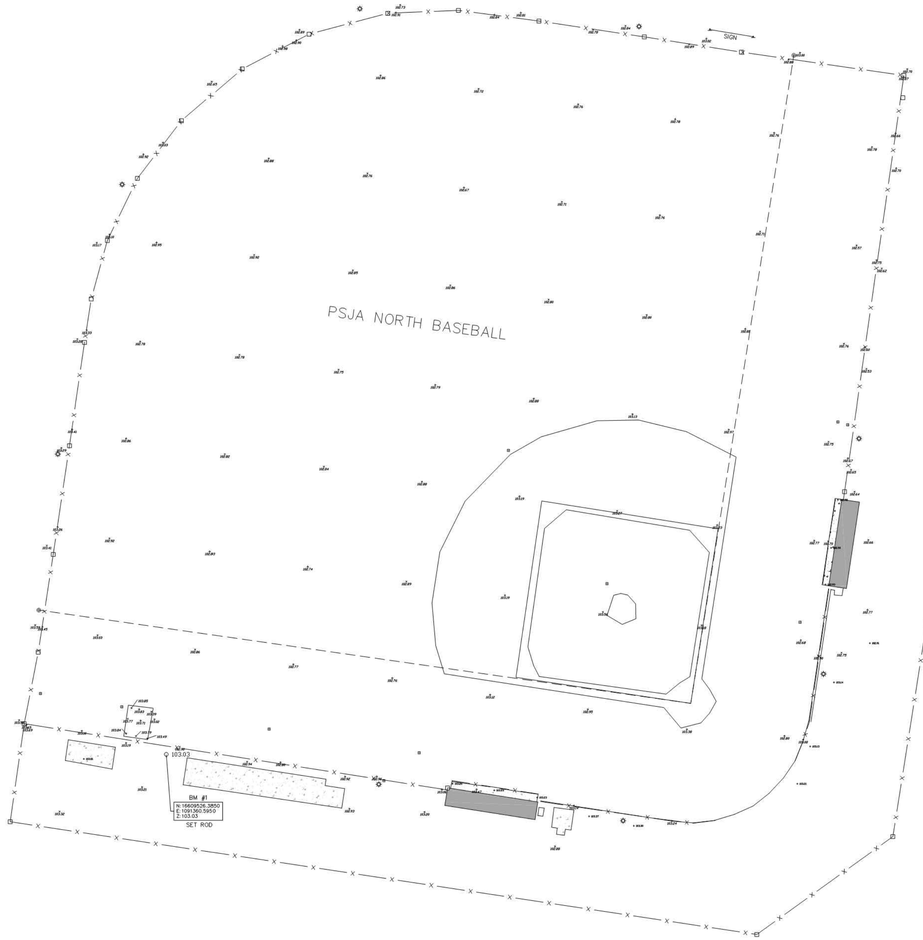
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

INDEX NOTES AND LEGENDS

CA 001



LEGEND

- CONCRETE SURFACE
- IRRIGATION CONTROL BOX
- LIGHT POLE
- sign
- FOULD BALL POST
- fence post
- FENCE
- BUILDING
- GRATE INLET

SCALE: 1"=30'

EXISTING CONDITIONS AT PSJA– NORTH HIGH SCHOOL BASEBALL FIELD

STATE OF TEXAS
REGISTERED
JOSE MARIO GONZALEZ
5571
PROFESSIONAL
LAND SURVEYOR

06-28-2019

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

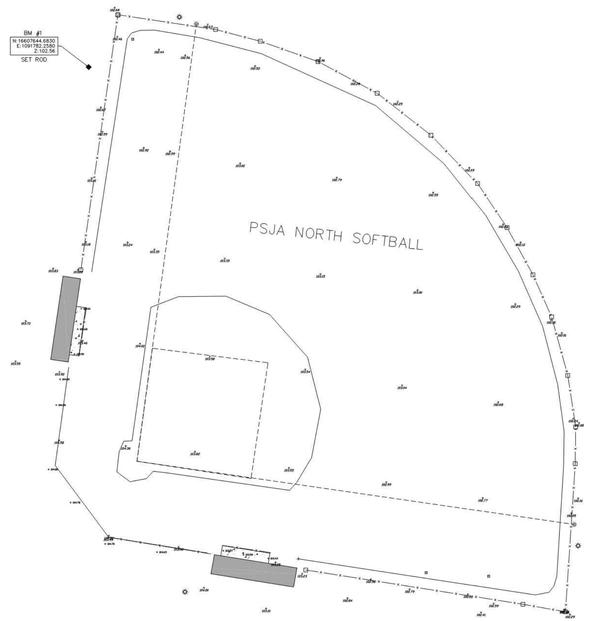
ISSUE FOR PROPOSALS

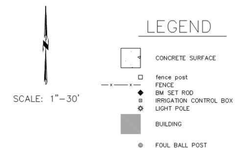
BASEBALL SURVEY (FOR INFORMATION ONLY)

CA 002

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 002 BASEBALL SURVEY (FOR INFORMATION ONLY).dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 8:19:24 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER





LEGEND

- CONCRETE SURFACE
- fence post
- FENCE
- BM SET ROD
- IRRIGATION CONTROL BOX
- LIGHT POLE
- BUILDING
- FOUL BALL POST

EXISTING CONDITIONS AT PSJA-NORTH HIGH SCHOOL SOFTBALL FIELD

STATE OF TEXAS REGISTERED JOSE MARIO GONZALEZ 5571 PROFESSIONAL LAND SURVEYOR

06-28-19

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

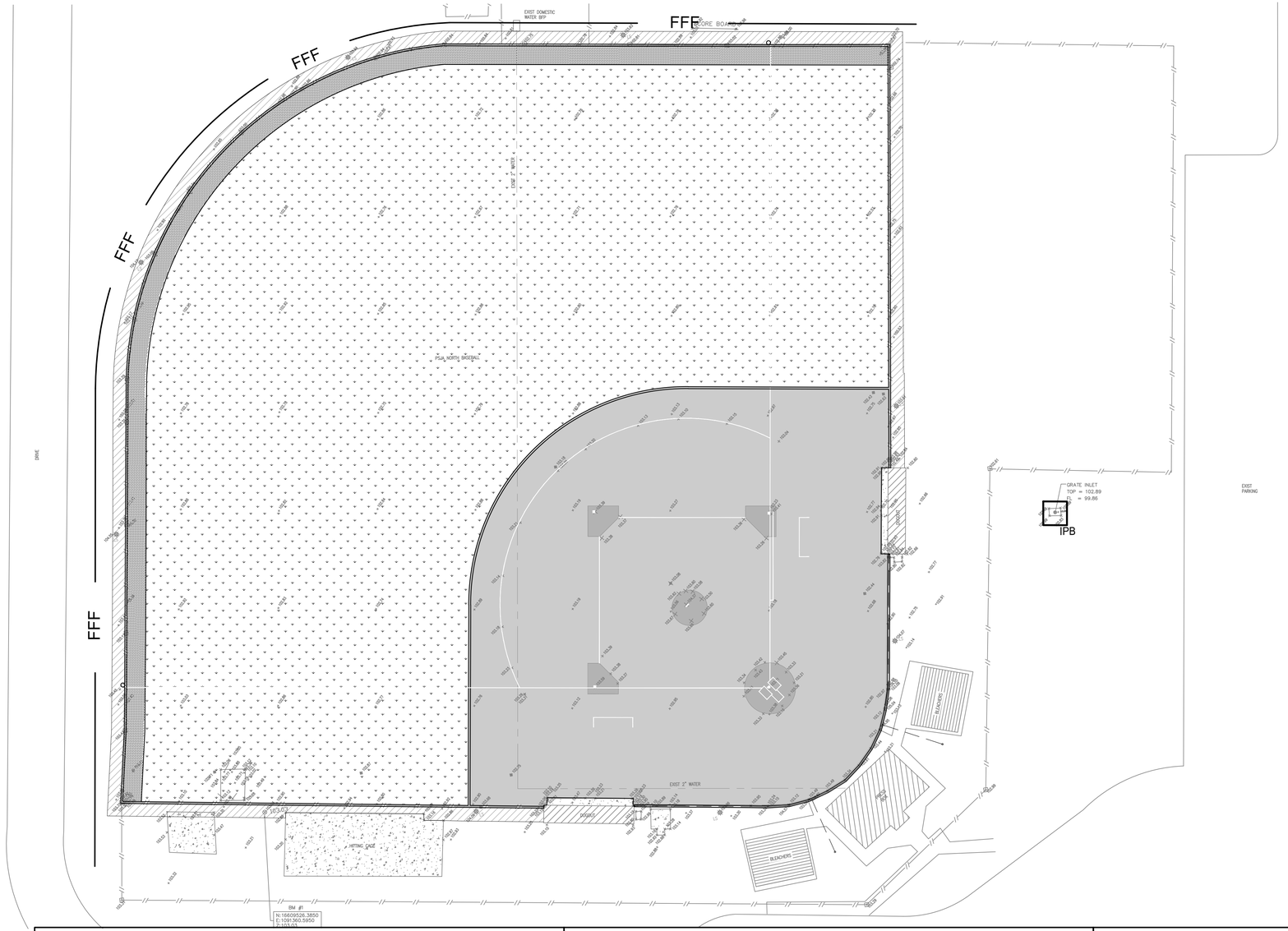
ISSUE FOR PROPOSALS

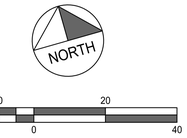
SOFTBALL SURVEY (FOR INFORMATION ONLY)

CA 003

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 003 SOFTBALL SURVEY (FOR INFORMATION ONLY).dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 6:27:22 PM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

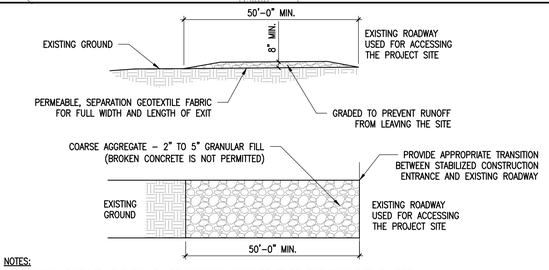




EROSION CONTROL PLAN

IPB — INLET PROTECTION BARRIER

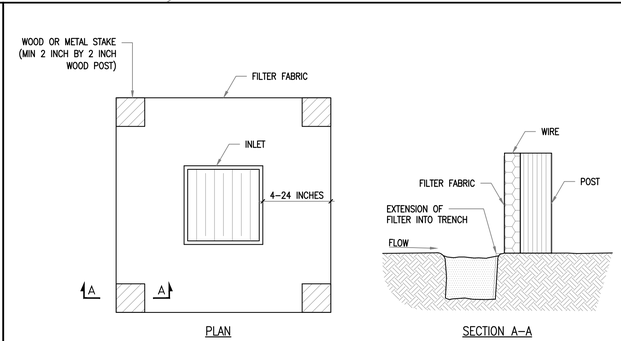
FFF — FILTER FABRIC FENCE



NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:
   - CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   - WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   - STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

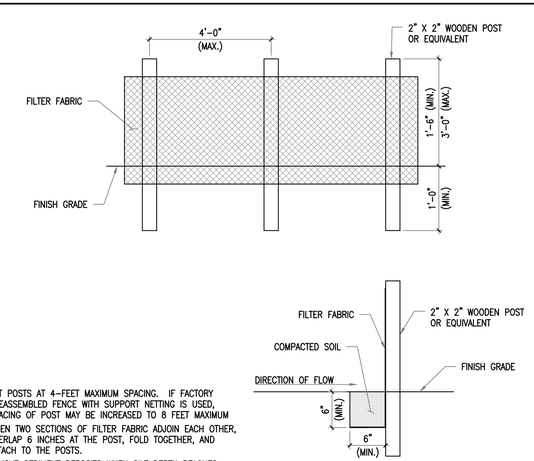
3 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION NOTES

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

2 SILT FENCE INLET PROTECTION BARRIER (IPB)



NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

1 FILTER FABRIC FENCE (FFF)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

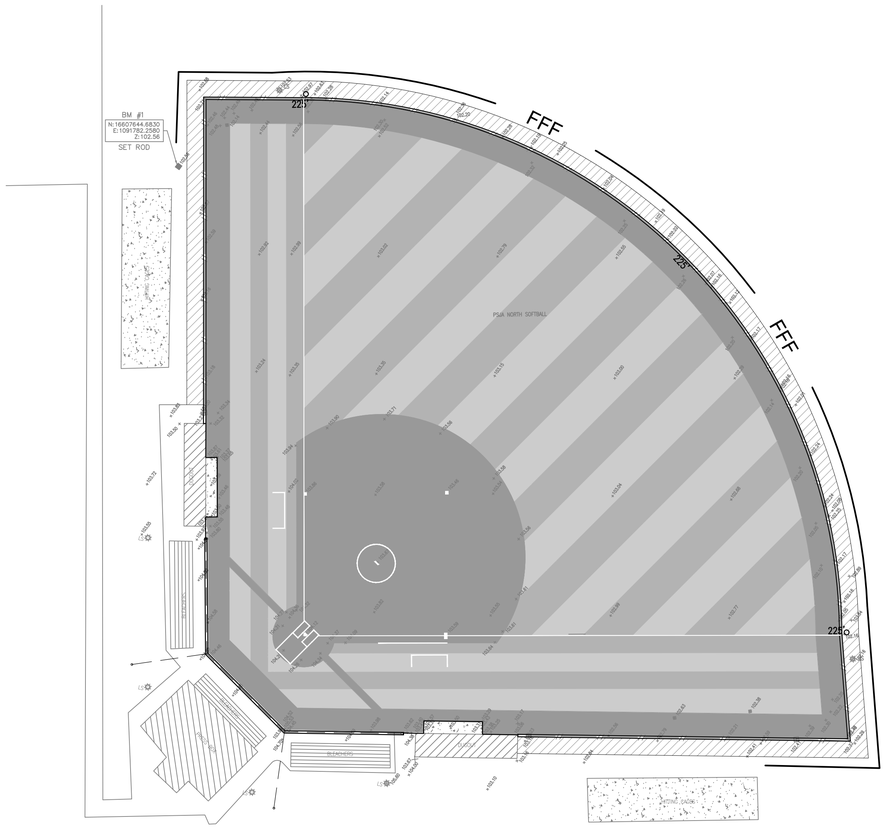
ISSUE FOR PROPOSALS

BASEBALL
EROSION
CONTROL PLAN

CA 004

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwg\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 004 BASEBALL EROSION CONTROL PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 6:46:13 PM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

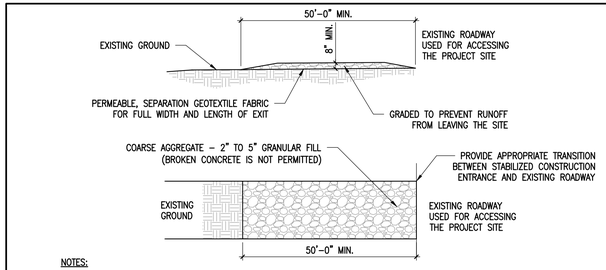
15 30

30 0 60

EROSION CONTROL PLAN

IPB — INLET PROTECTION BARRIER

FFF — FILTER FABRIC FENCE



NOTES:

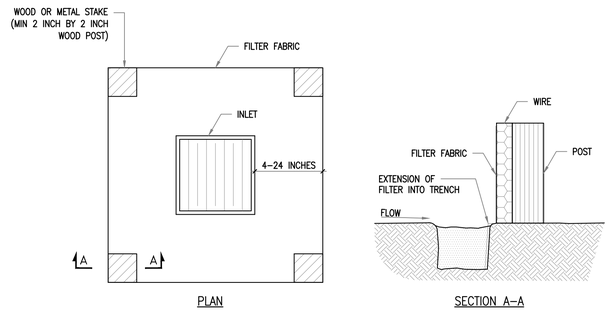
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:

   CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.

   WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.

   STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

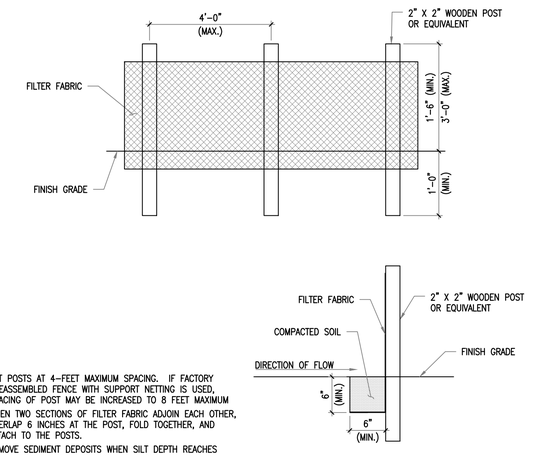
3 STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION NOTES

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

2 SILT FENCE INLET PROTECTION BARRIER (IPB)



NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

1 FILTER FABRIC FENCE (FFF)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL EROSION CONTROL PLAN

CA 005

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 005 SOFTBALL EROSION CONTROL PLAN.dwg Last Saved: DRODRIGUEZ
Monday, July 29, 2019 4:07:00 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF THE PROPOSED SYNTHETIC TURF REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

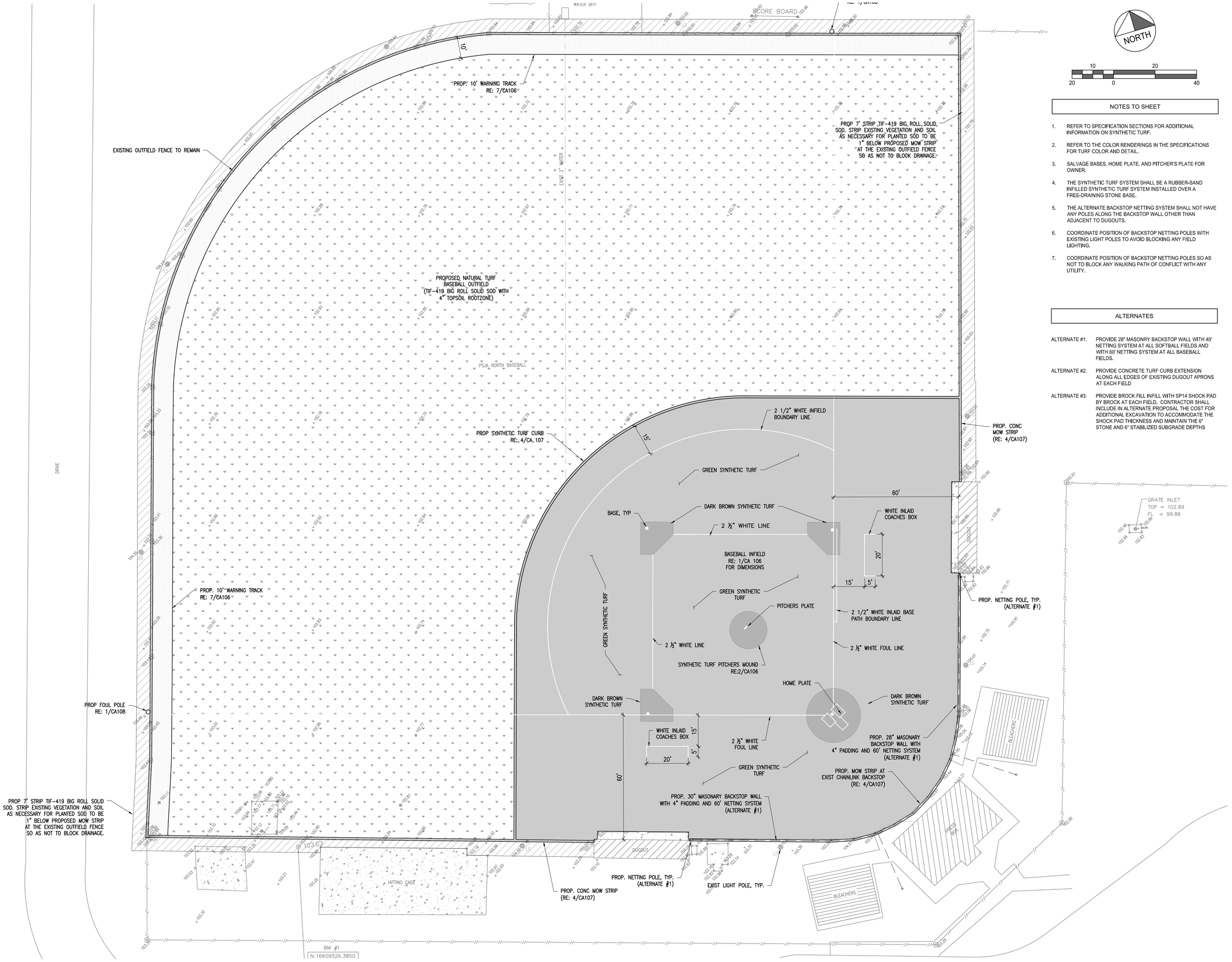
ISSUE FOR PROPOSALS

BASEBALL DEMOLITION PLAN

CA 100

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 100 BASEBALL DEMOLITION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:03:23 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING.
7. COORDINATE POSITION OF BACKSTOP NETTING POLES SO AS NOT TO BLOCK ANY WALKING PATH OF CONFLICT WITH ANY UTILITY.

ALTERNATES

ALTERNATE #1: PROVIDE 28" MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
SURVEYOR
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

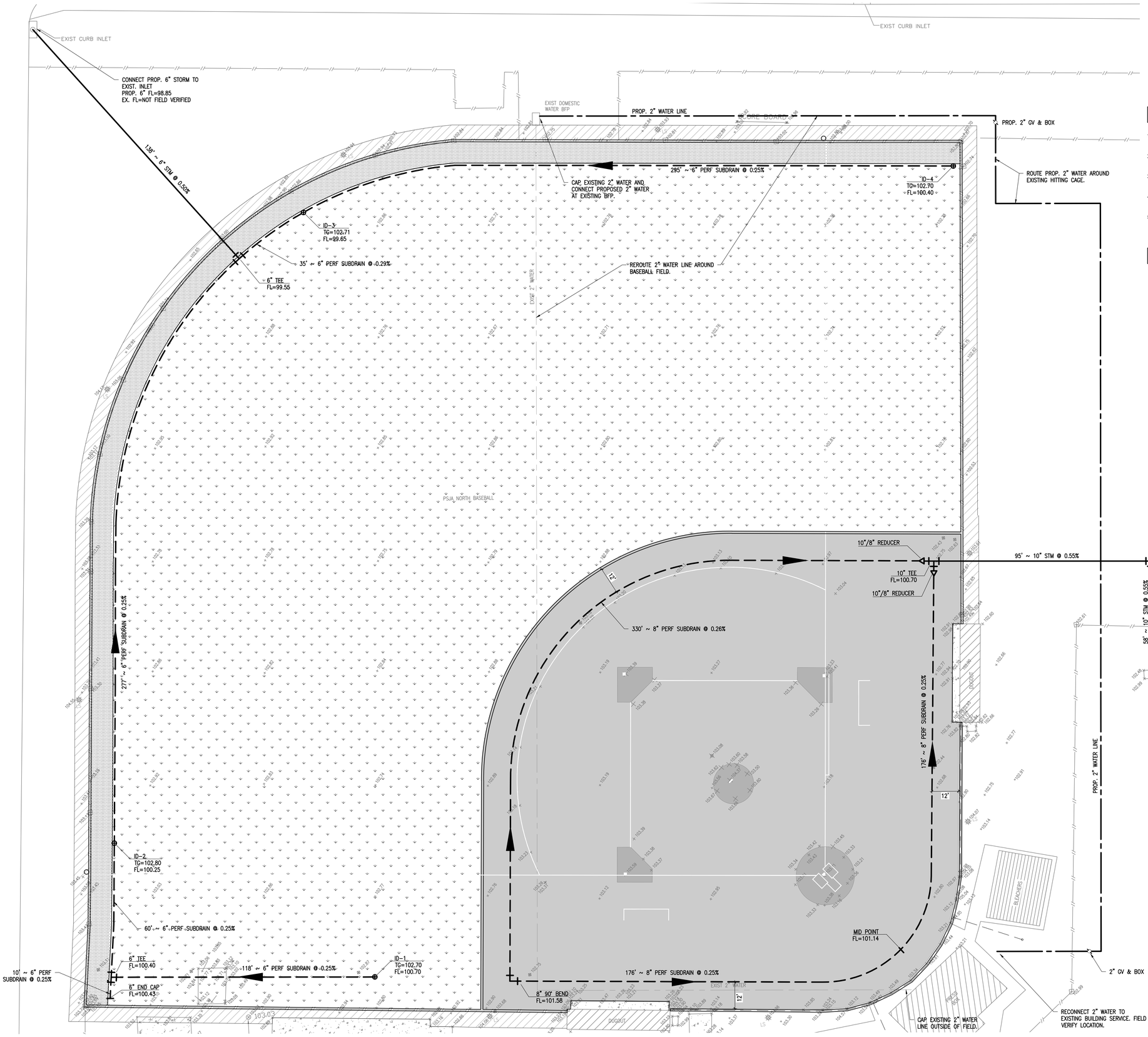
ISSUE FOR PROPOSALS

BASEBALL
SITE PLAN

CA 101

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwg\8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 101 BASEBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:04:01 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE, REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.
5. CONTRACTOR SHALL PROVIDE A SECOND SET OF CAST IRON GRATES WITH THE TURF SYSTEM GLUED TO GRATE TO BE INSERTED ONTO INLETS / MANHOLES DURING GAMES.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
STATE OF TEXAS
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

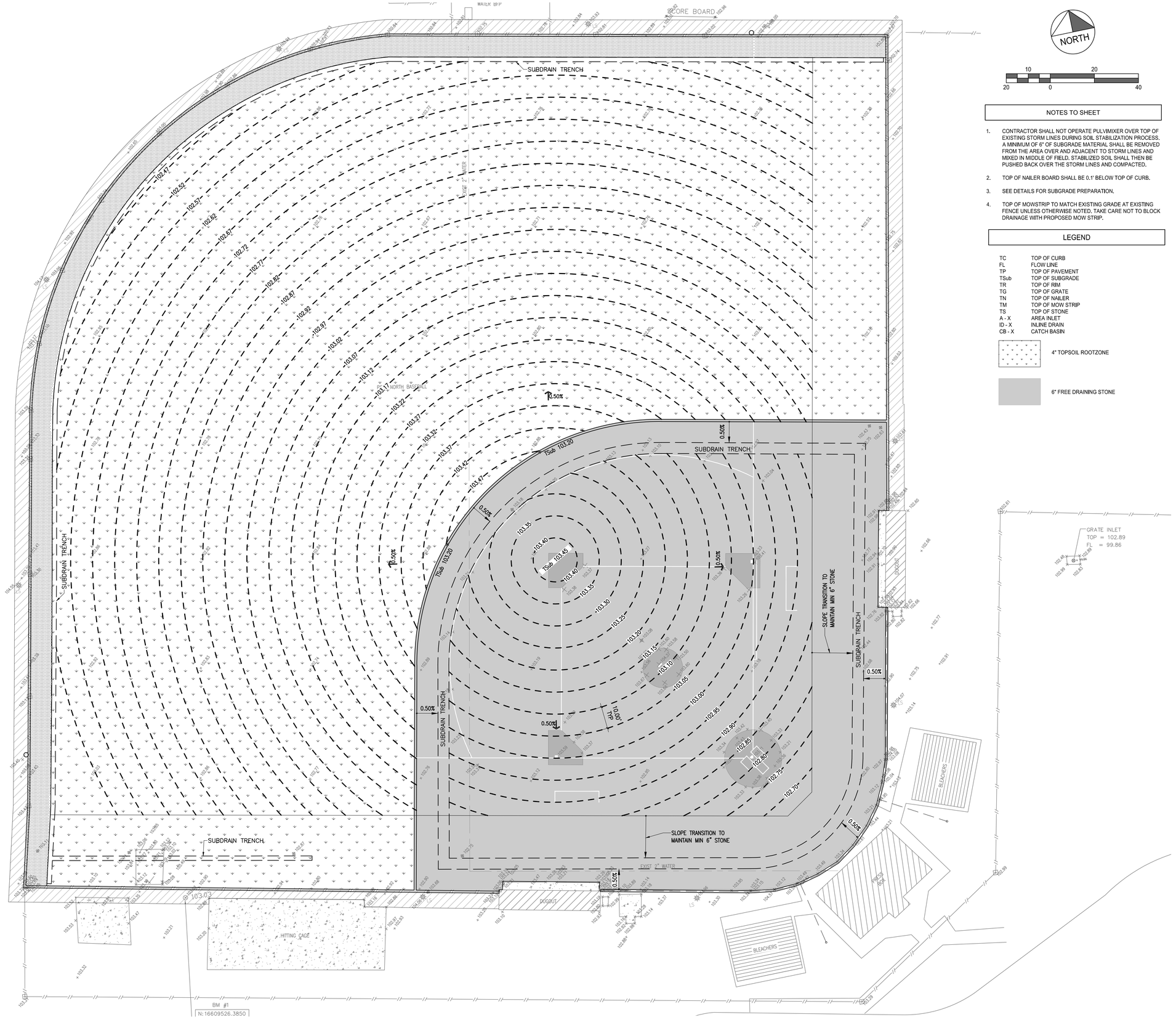
No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL DRAINAGE PLAN

CA 102

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 102 BASEBALL DRAINAGE PLAN.dwg Last Saved: TCRYER
Wednesday, August 7, 2019 12:30:40 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

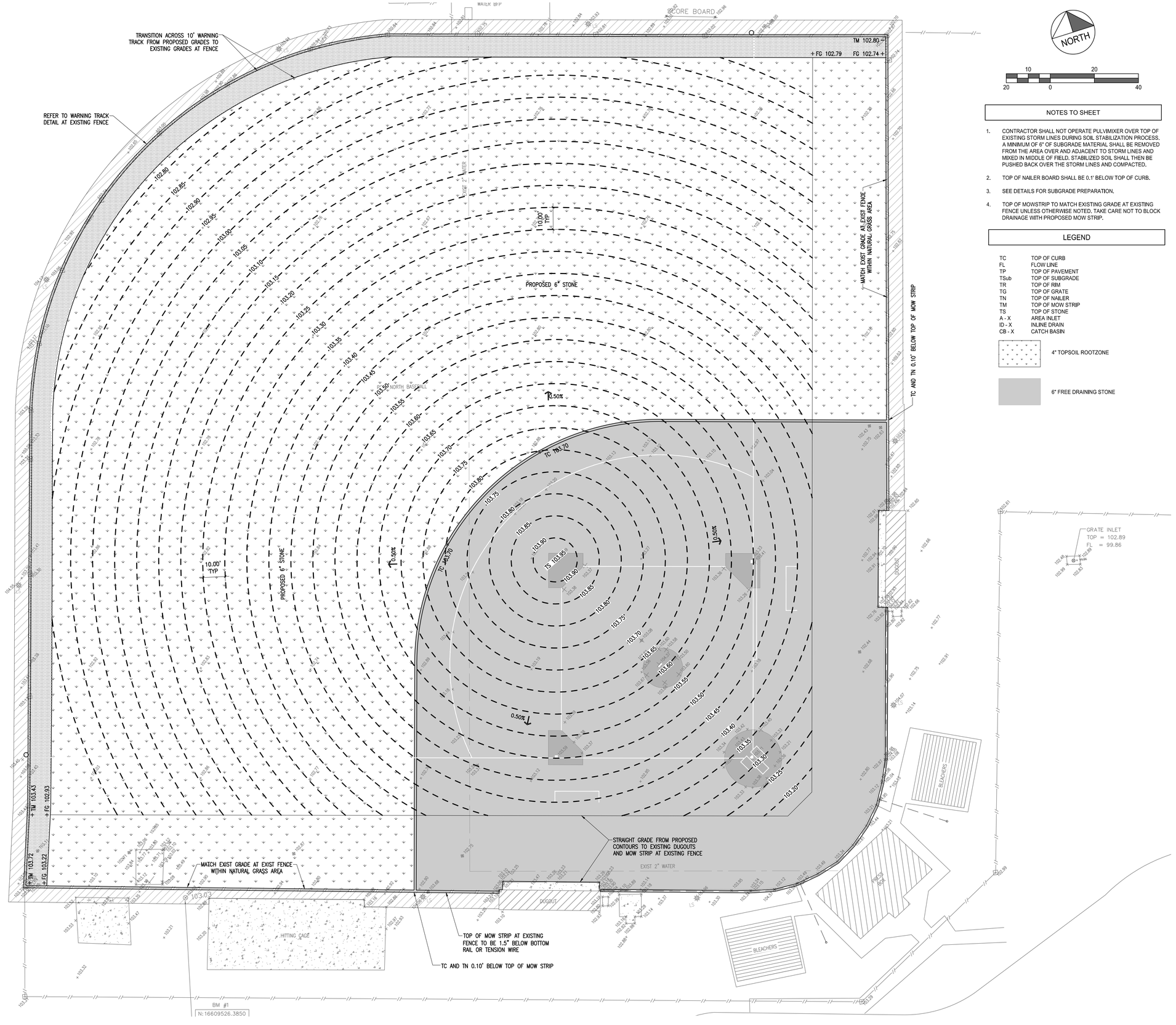
ISSUE FOR PROPOSALS

BASEBALL SUBGRADE GRADING PLAN

CA 103

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 103 BASEBALL SUBGRADE GRADING PLAN.dwg Last Saved: SDELACRUZ
Wednesday, August 7, 2019 10:08:28 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 75577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

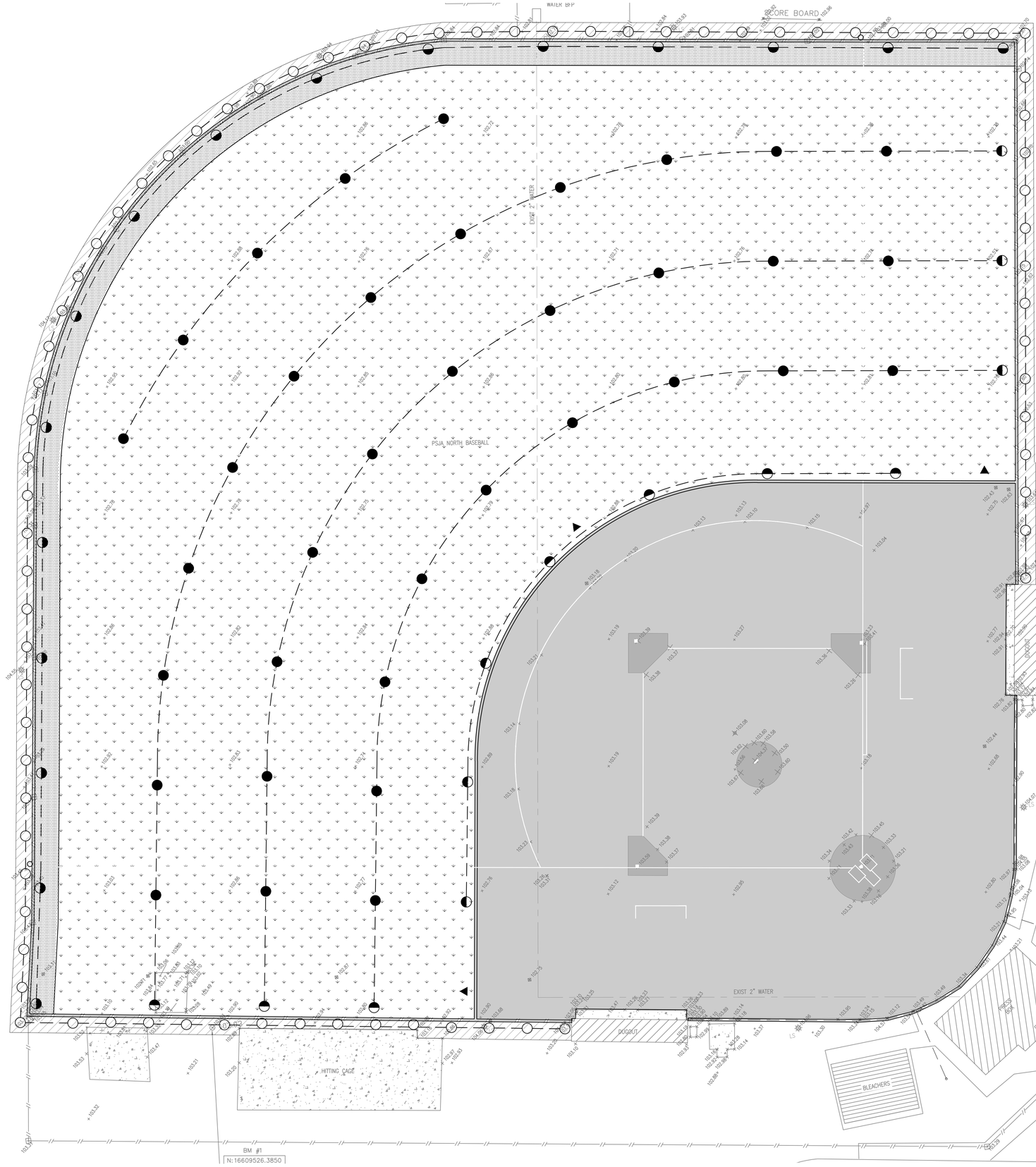
No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL FINISH GRADING PLAN

CA 104

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 104 BASEBALL FINISH GRADING PLAN.dwg Last Saved: SDELACRUZ
Wednesday, August 7, 2019 10:08:48 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 20
20 0 40

NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CANNOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
LANDSCAPE
ARCHITECT
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

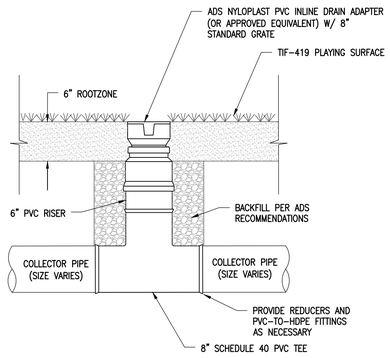
ISSUE FOR PROPOSALS

BASEBALL IRRIGATION PLAN

CA 105

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 105 BASEBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:05:06 AM

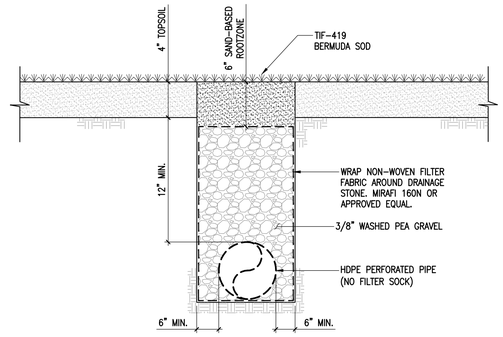
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN



NOTES:
1. PROVIDE EXTRA GRATE WITH KNITTED NYLON SYNTHETIC TURF WITH 5MM PAD GLUED TO THE TOP.

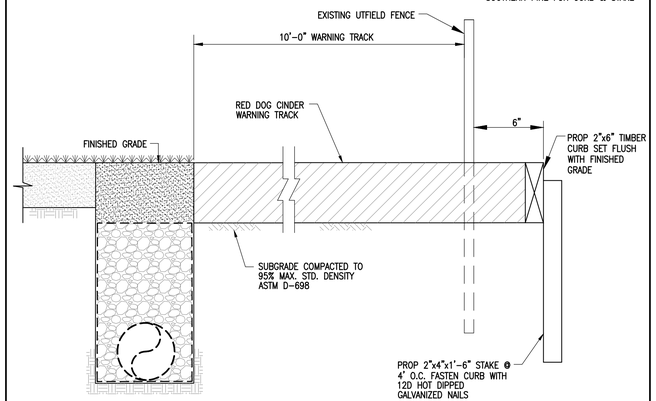
9 INLINE DRAIN (ID)

NOTE:
SAND-BASED ROOTZONE SHALL BE 90% SAND + 10% CLAY/SILT.



8 NATURAL TURF FIELD SUBDRAIN

NOTE:
USE GRADE 2 WOLMANIZED SOUTHERN PINE FOR CURB & STAKE

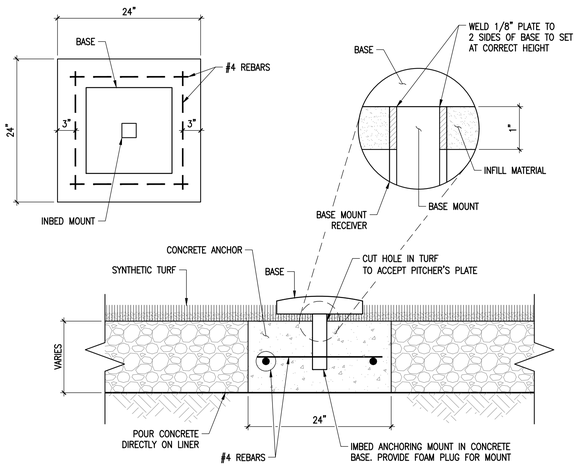


7 WARNING TRACK

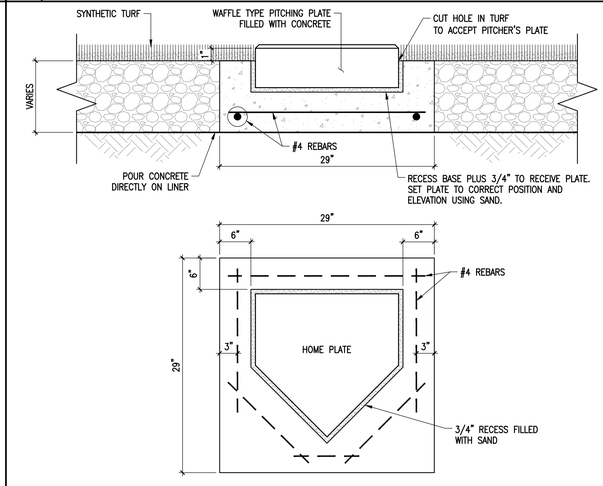
PROP. 2" x 4" x 1'-6" STAKE @ 4' O.C.

FASTEN TO TIMBER CURB WITH 12D HOT

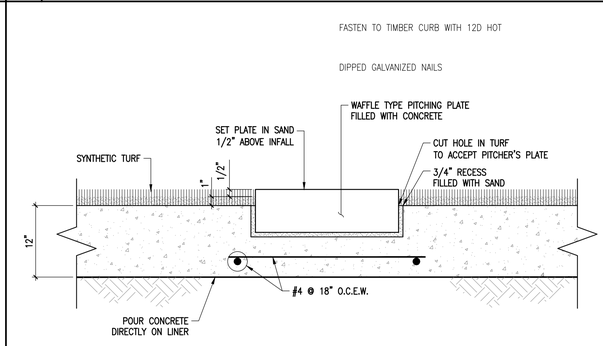
DIPPED GALVANIZED NAILS



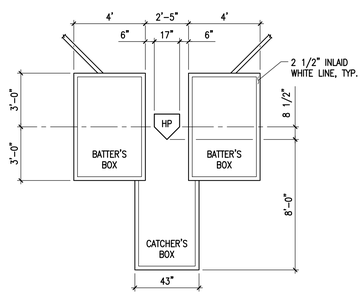
6 BASE PLATE MOUNT



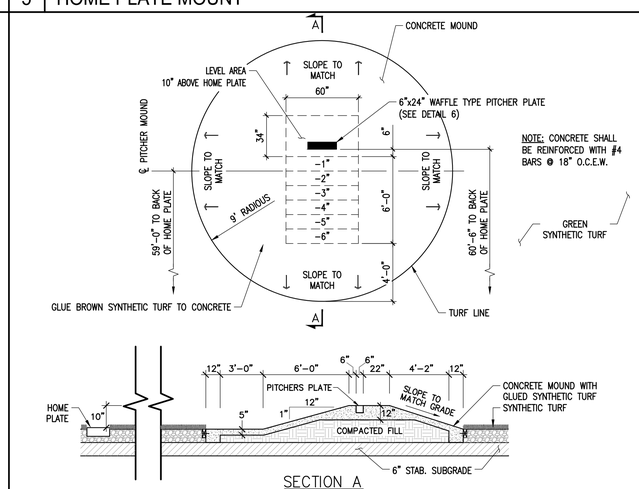
5 HOME PLATE MOUNT



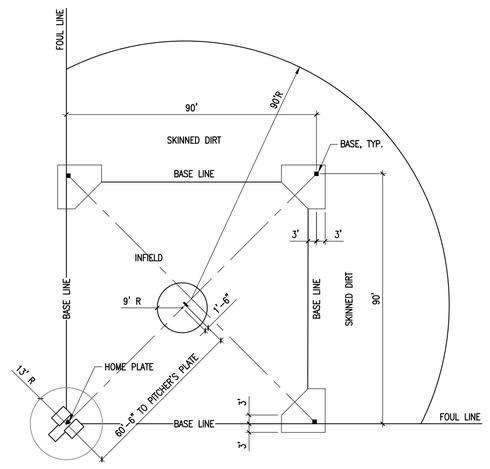
4 PITCHER'S PLATE MOUNT



3 BASEBALL BATTER'S BOX



2 BASEBALL SYNTHETIC TURF PITCHER MOUND (ALTERNATE)



1 BASEBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
SURVEYOR
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

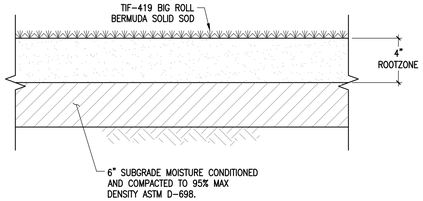
BASEBALL DETAILS

CA 106

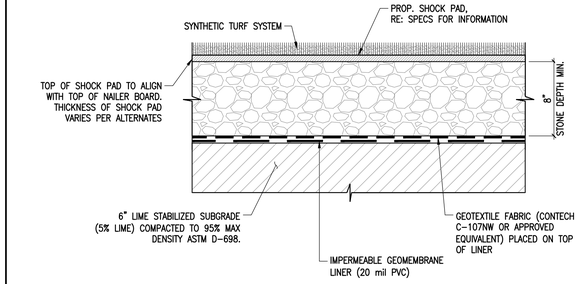
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwg\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 106 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:24:03 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

NOTE:

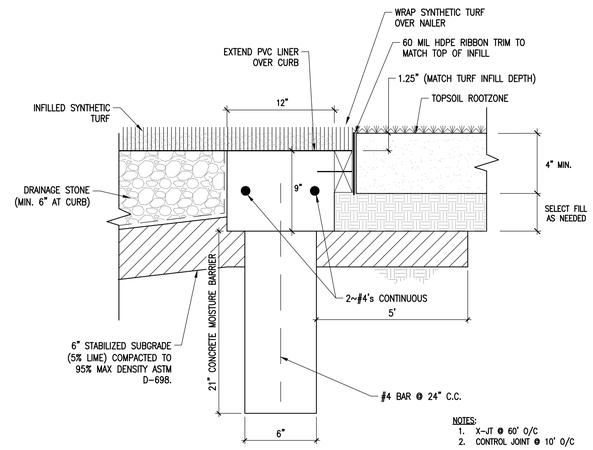
1. ROOTZONE TO BE TOPSOIL MIX WITH 10% COMPOST BLENDED IN.
2. 4" ROOTZONE DEPTH INCLUDES APPROX. 3/4" SOD ROOTZONE MATERIAL.



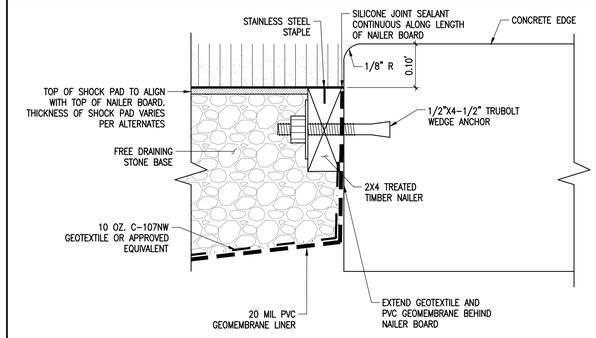
9 NATURAL TURF SECTION



8 ALTERNATE SYNTHETIC TURF SECTION WITH SHOCK PAD (ALT. #3)



7 12" CONCRETE TURF CURB



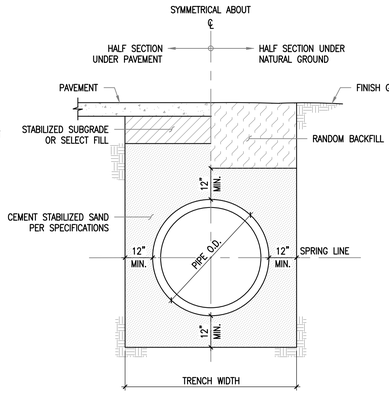
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

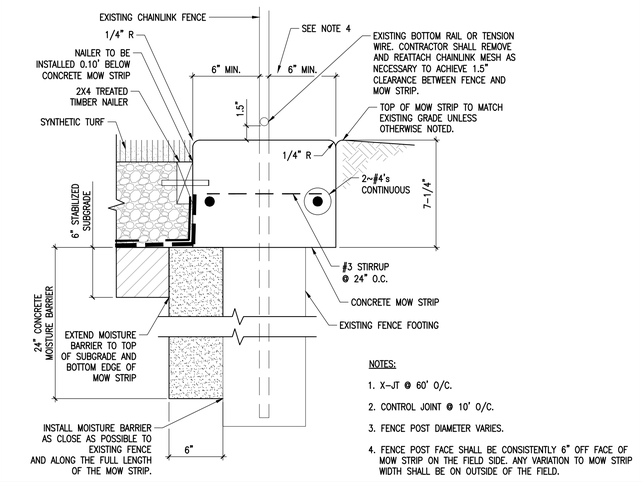
6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT #3)

NOTES:

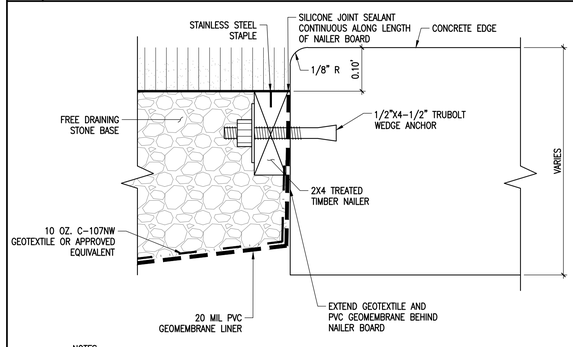
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.



5 STORM SEWER BEDDING AND BACKFILL



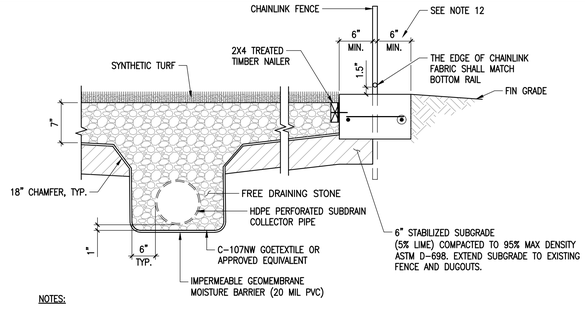
4 SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

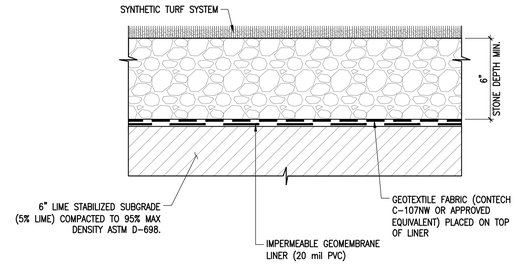
3 NAILER BOARD SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 0.10' BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 6" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. FENCE POST DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

2 BASEBALL SYNTHETIC TURF SYSTEM EDGE SECTION



1 SYNTHETIC TURF SECTION

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

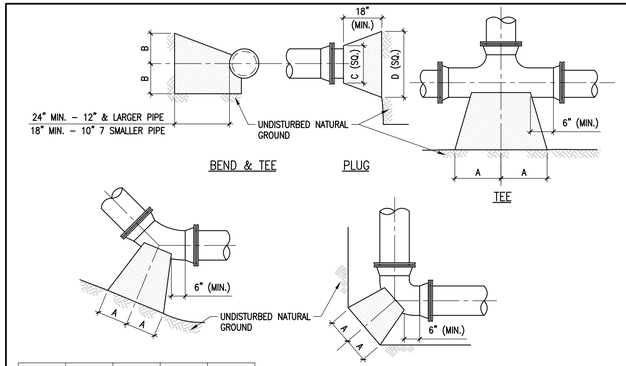
No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL
DETAILS

CA 107

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 107 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:27:30 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

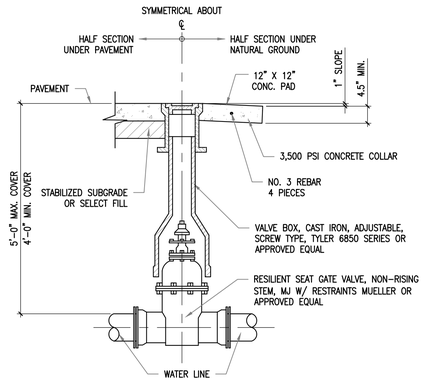


90° BEND		45° BEND		22½° BEND		TEES		PLUGS	
A	B	A	B	A	B	A	B	C	D
12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTES:

1. THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 1.0 SF AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT NOT LESS THAN 1.0 FT.
2. THRUST BLOCKS SHALL BE PACKED AT ALL FITTINGS.
3. ALL FITTINGS SHALL BE M.J. RESTRAINED JOINT (EBAA IRON, SERIES 2000PV, OR APPROVED EQUAL).

6 THRUST BLOCKING



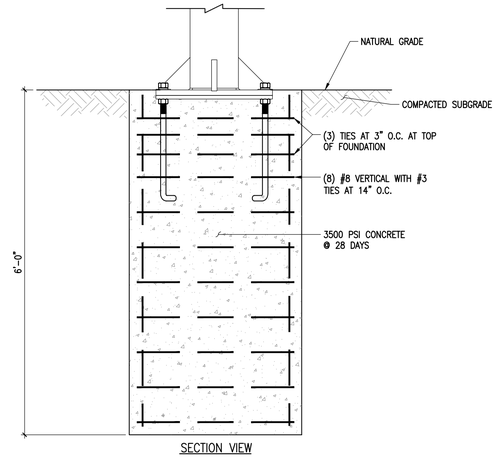
NOTES:

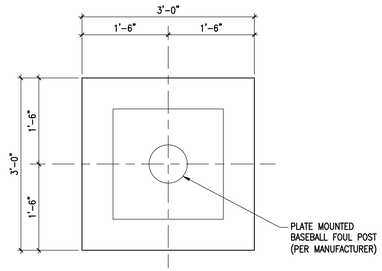
1. PROVIDE OPERATING NUT EXTENSION, AS NEEDED, TO APPROXIMATELY THREE (3) FEET BELOW FINISHED GRADE.
2. VALVE BOX SHALL NOT TRANSMIT ANY LOAD DIRECTLY TO THE VALVE OR PIPE.
3. GATE VALVES SHALL BE COUNTER-CLOCKWISE OPEN.
4. SECURE TRACER WIRE INSIDE OF VALVE BOX.

5 GATE VALVE

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POST MANUFACTURER. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.

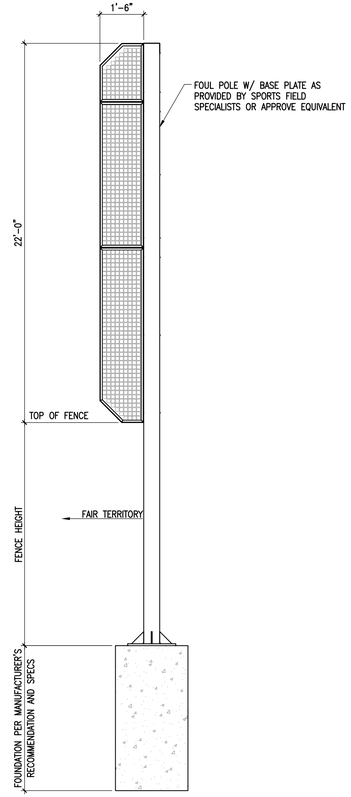




4 BASEBALL FOUL POLE FOUNDATION

NOTE:

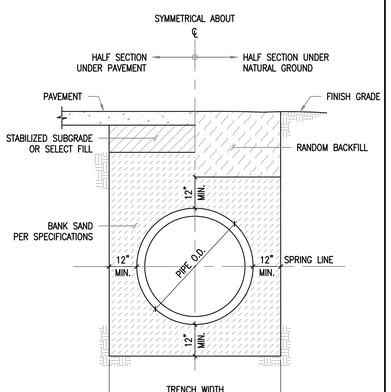
ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



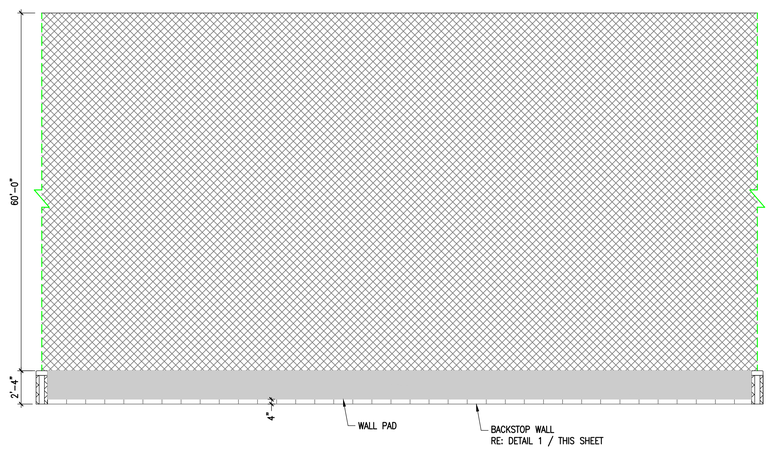
3 BASEBALL FOUL POLE 22FT WING

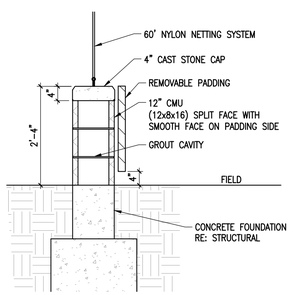
NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.



2 WATER LINE BEDDING & BACKFILL





1 BACKSTOP WALL & NETTING DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
PROFESSIONAL ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

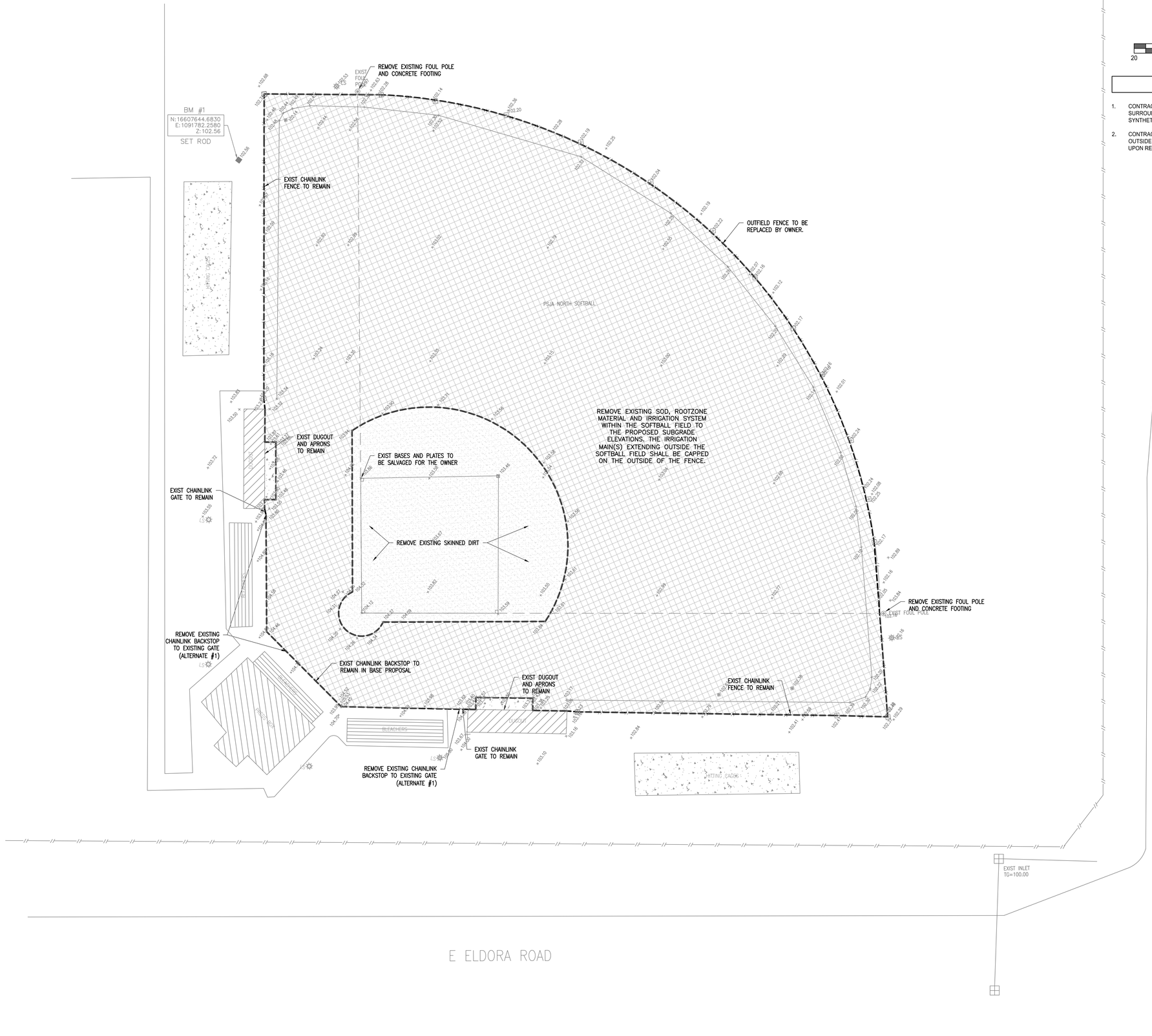
No.	Description	Date

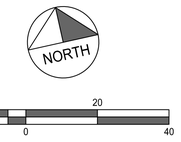
ISSUE FOR PROPOSALS

BASEBALL DETAILS

CA 108

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 108 BASEBALL DETAILS.dwg Last Saved: IGARCIA
Wednesday, August 7, 2019 9:31:17 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER





NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF SYNTHETIC TURF FIELD REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

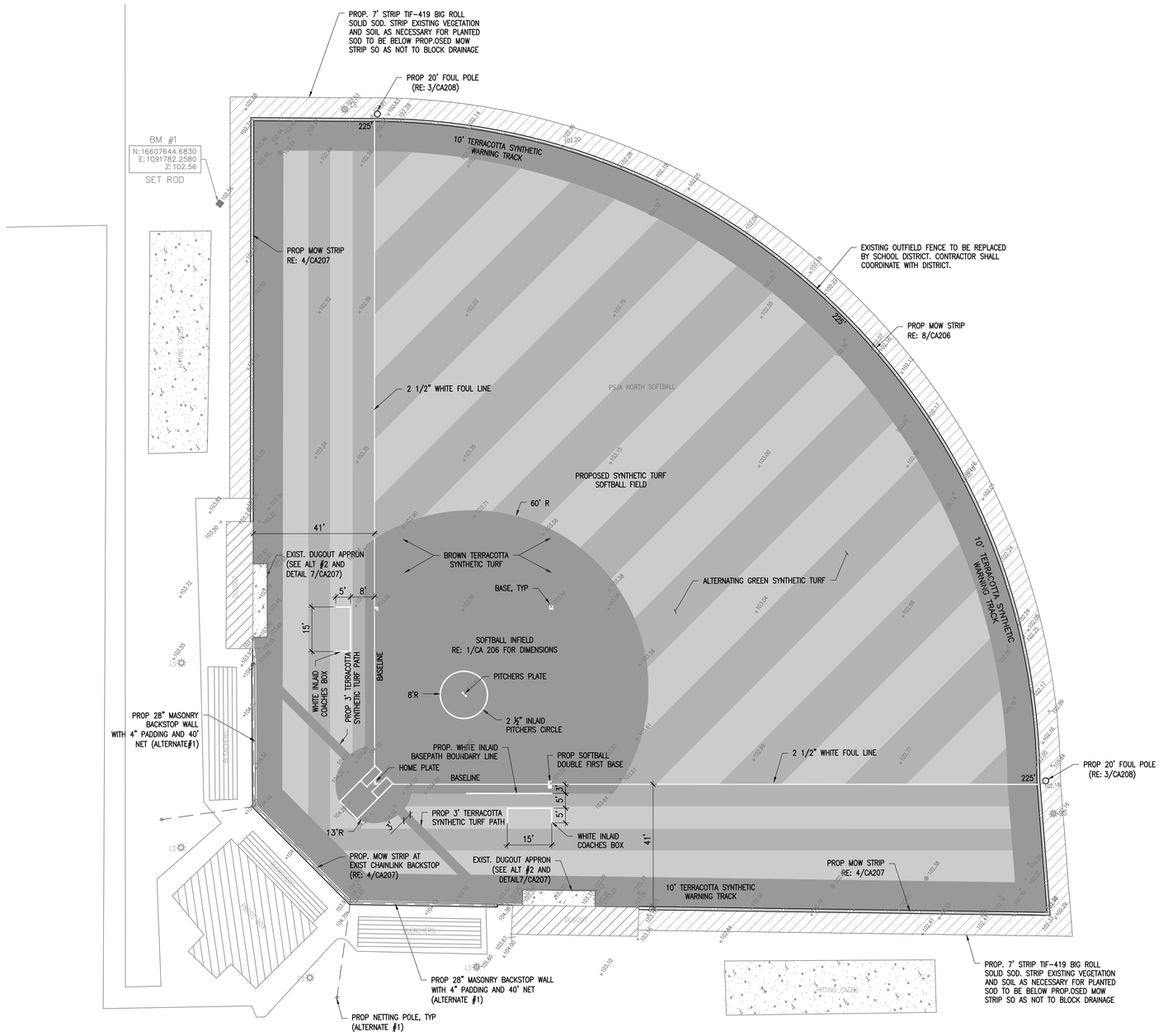
ISSUE FOR PROPOSALS

SOFTBALL DEMOLITION PLAN

CA 200

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 200 SOFTBALL DEMOLITION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:02:30 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 20

20 0 40

NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING

ALTERNATES

ALTERNATE #1: PROVIDE 28" MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

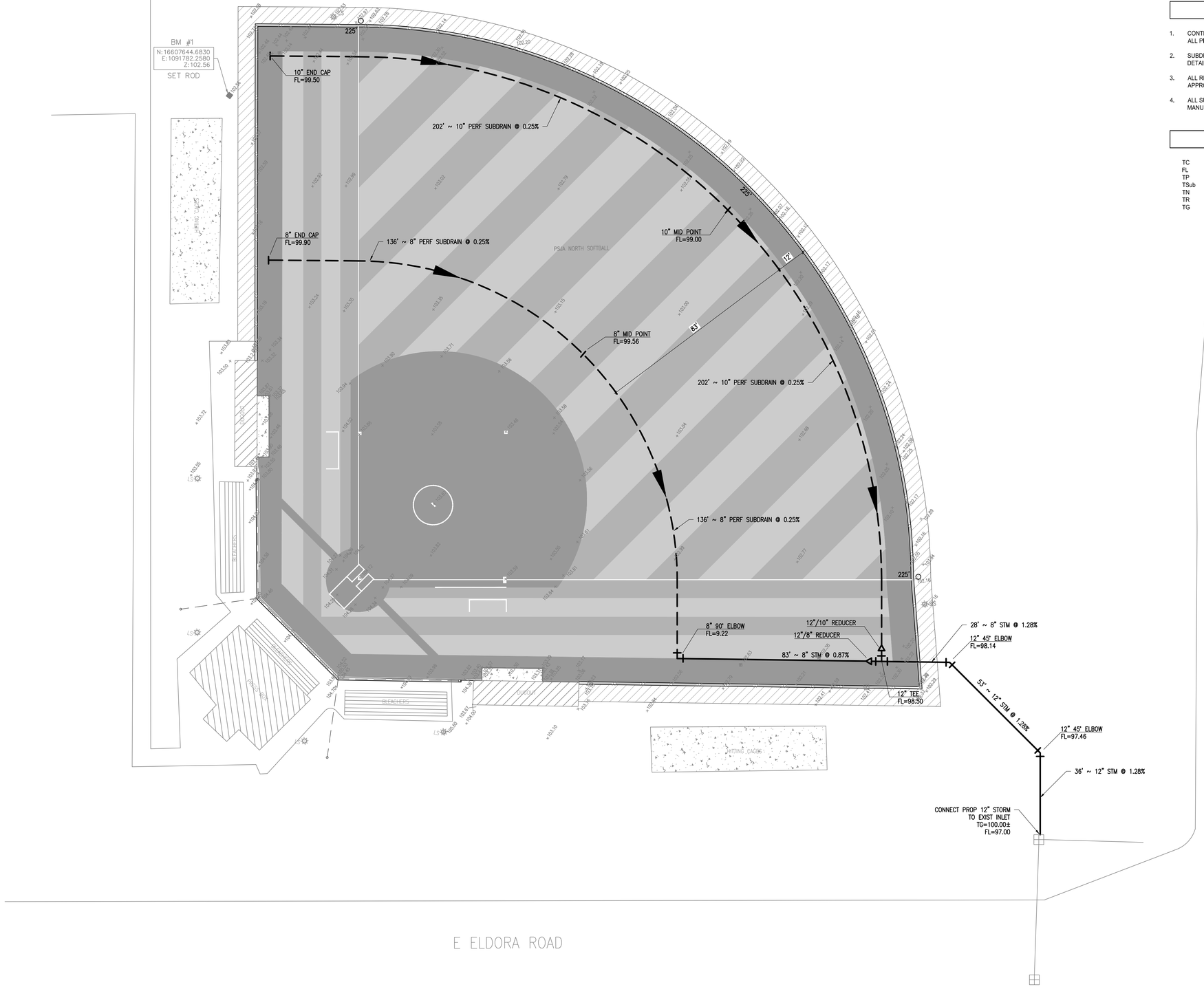
ISSUE FOR PROPOSALS

SOFTBALL SITE PLAN

CA 201

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 201 SOFTBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:58:52 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 0 20 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE. REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

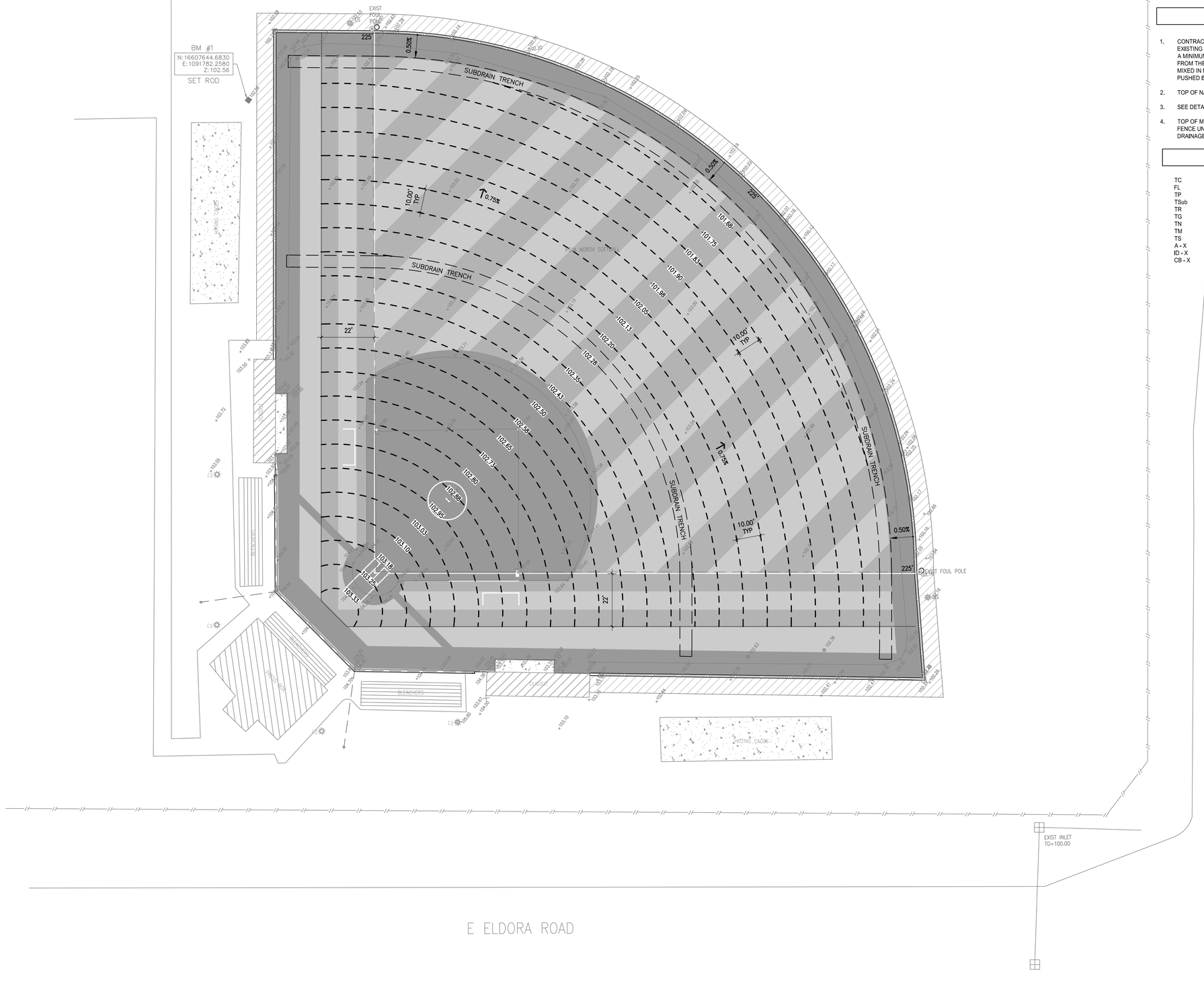
ISSUE FOR PROPOSALS

SOFTBALL DRAINAGE PLAN

CA 202

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 202 SOFTBALL DRAINAGE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:59:55 AM



NORTH

10 0 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 9" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

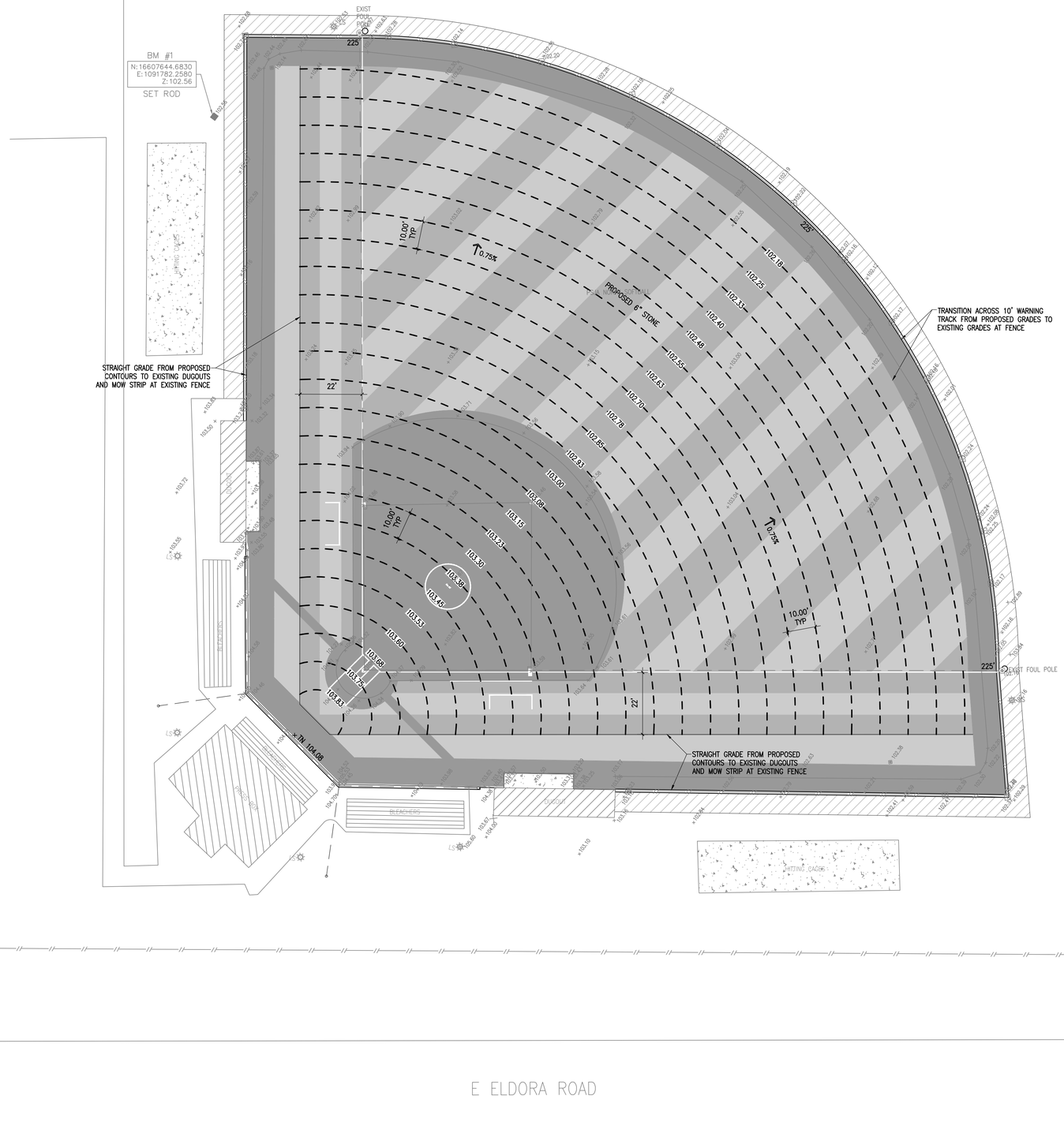
ISSUE FOR PROPOSALS

SOFTBALL SUBGRADE GRADING PLAN

CA 203

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 203 SOFTBALL SUBGRADE GRADING PLAN.dwg Last Saved: SDELACRUZ
Wednesday, August 7, 2019 10:11:45 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 0 20 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1" BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
SURVEYOR
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

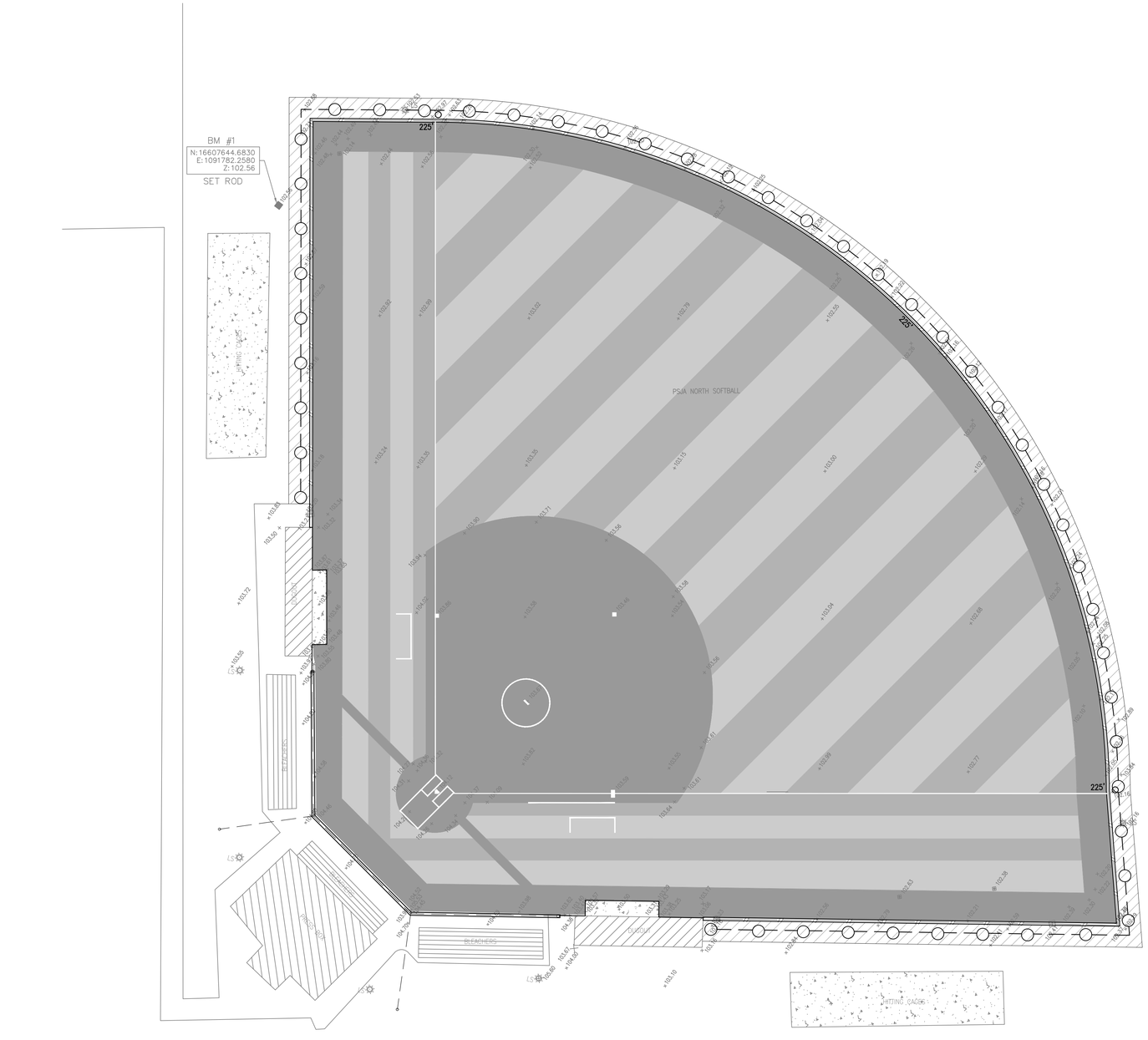
ISSUE FOR PROPOSALS

SOFTBALL STONE GRADING PLAN

CA 204

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwg\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 204 SOFTBALL STONE GRADING PLAN.dwg Last Saved: SDELACRUZ
Wednesday, August 7, 2019 10:11:59 AM



NORTH

10 20
20 0 40

NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CAN NOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 75577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED IRRIGATOR
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL IRRIGATION PLAN

CA 205

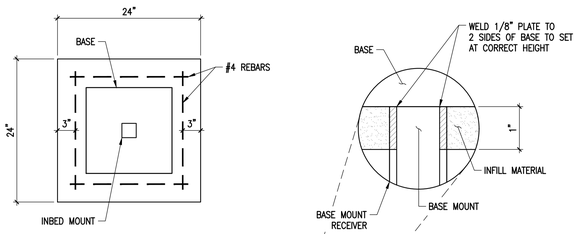
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 205 SOFTBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:01:41 AM

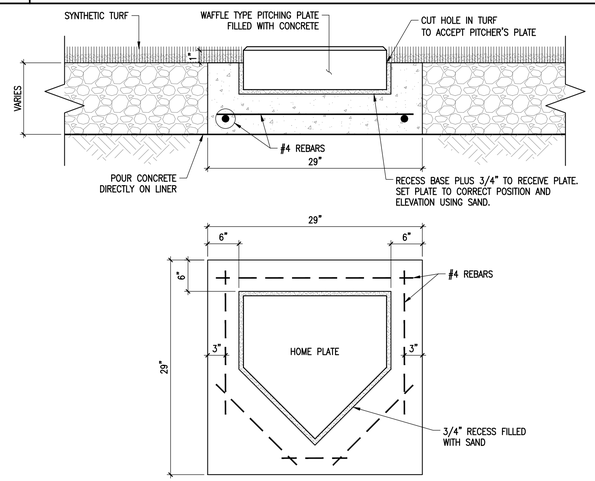
9 NOT USED

8 NOT USED

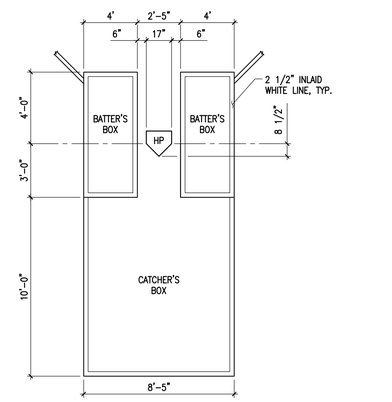
7 NOT USED



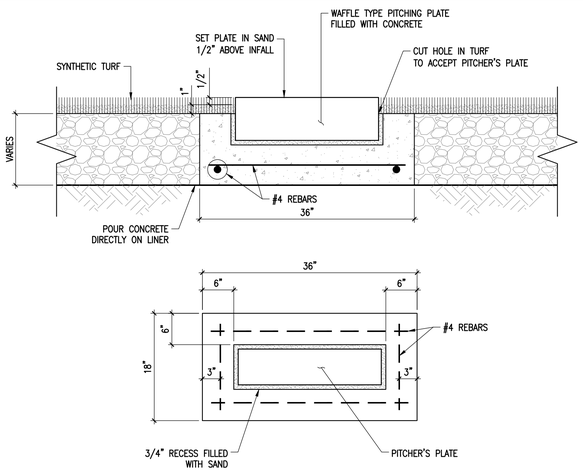
6 SOFTBALL BASE PLATE MOUNT



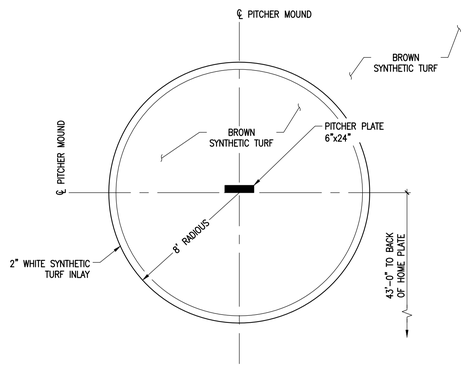
5 SOFTBALL HOME PLATE MOUNT



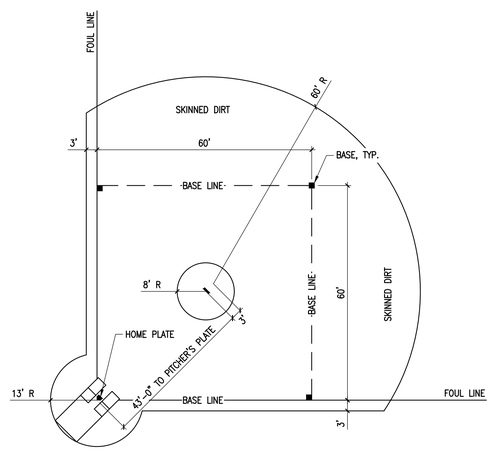
4 SOFTBALL BATTER'S BOX



3 SOFTBALL PITCHER'S PLATE MOUNT



2 FAST PITCH SOFTBALL PITCHER MOUND SYNTHETIC TURF



1 FAST PITCH SOFTBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

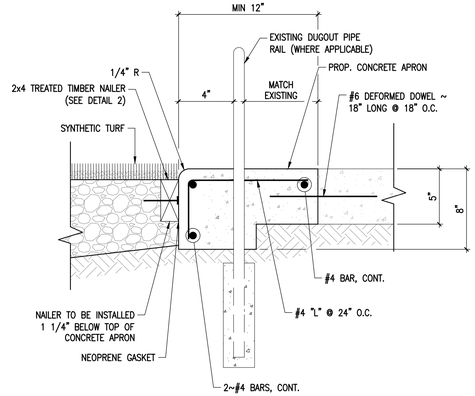
ISSUE FOR PROPOSALS

SOFTBALL
DETAILS

CA 206

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SPD\tr8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 206 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 7:40:42 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

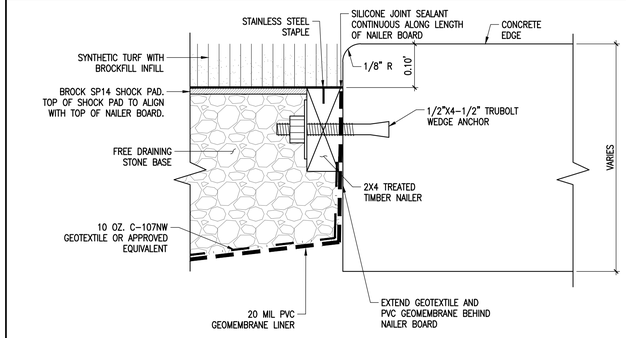
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 207 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:35:02 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



9 NOT USED

8 NOT USED

7 CONCRETE APRON AT EXISTING DUGOUT RAIL (ALTERNATE #2)



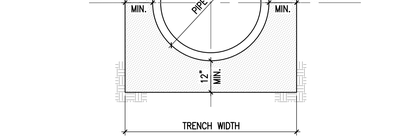
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT. #3)

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

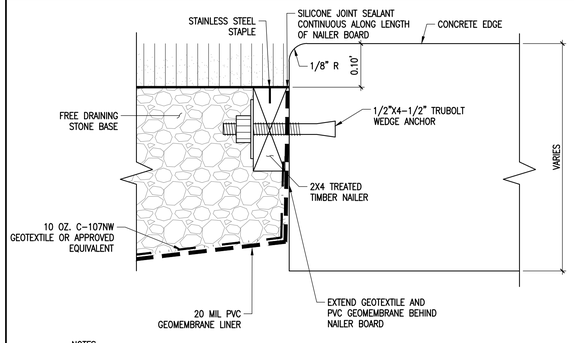


5 STORM SEWER BEDDING AND BACKFILL

NOTES:

1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. FENCE POST DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

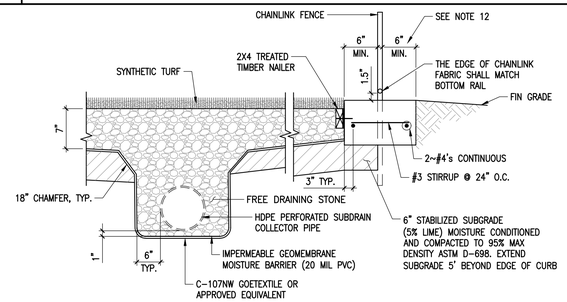
4 SOFTBALL SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

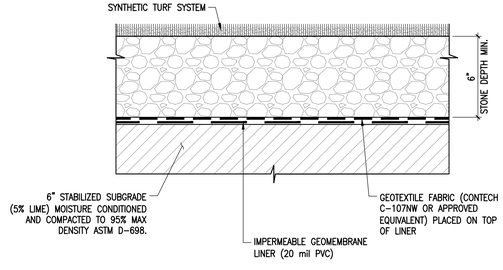
3 NAILER BOARD SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 1.5" BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL 1/4" THICK X 3" WIDE NEOPRENE GASKET BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 7" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. POLE DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

2 SOFTBALL SYNTHETIC TURF SYSTEM EDGE SECTION



1 SOFTBALL SYNTHETIC TURF SECTION

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

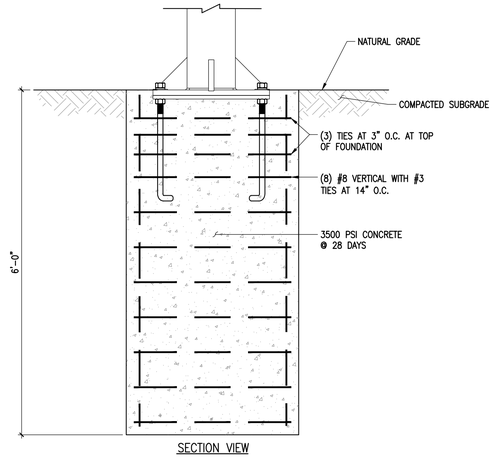
CA 207

6 | NOT USED

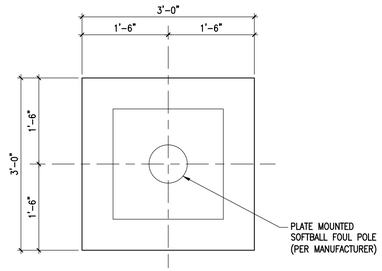
5 | NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POLE MANUFACTURER. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.



SECTION VIEW

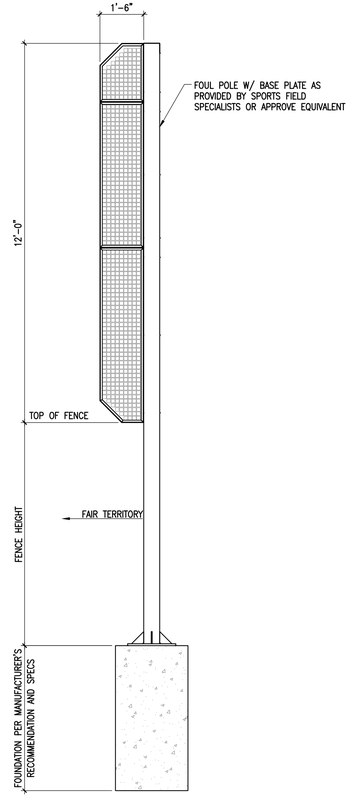


PLAN VIEW

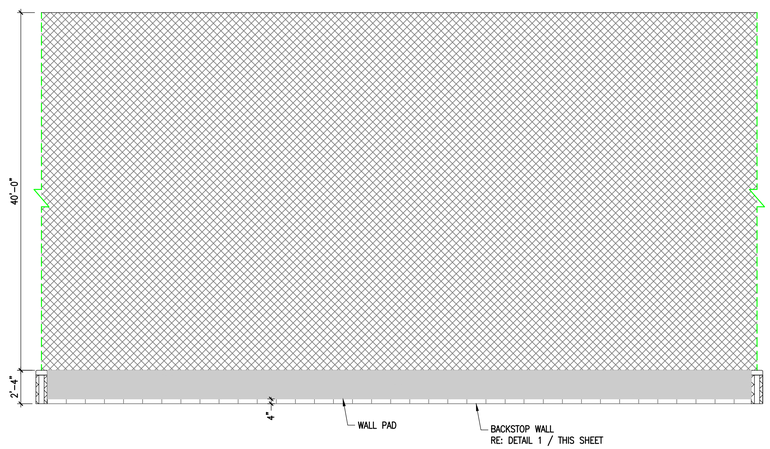
4 | SOFTBALL FOUL POLE FOUNDATION

NOTE:

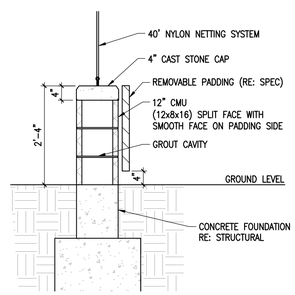
ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 | SOFTBALL FOUL POLE 22FT WING



2 | BACKSTOP NETTING DETAIL (ALTERNATE #1)



1 | BACKSTOP WALL DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA NORTH ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL # 18-19-057

PSJA North Raiders

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 208

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA NORTH HIGH SCHOOL\CA 208 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:08:25 PM

GENERAL:

G1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PROTECTED BY U.S.A. COPYRIGHT LAWS. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE STRUCTURE FOR THE BUILDING DESCRIBED IN THE ARCHITECTURAL DRAWINGS AT THE LOCATION INDICATED. THE DESIGN OF THE STRUCTURE REPRESENTED BY THESE DOCUMENTS IS NOT VALID FOR ANY OTHER LOCATION, PURPOSE OR USE.

G2 UNLESS NOTED OTHERWISE, THE GENERAL NOTES AND THE DETAILS IN THE DRAWINGS DESIGNATED AS "TYPICAL DETAILS," ARE APPLICABLE TO THE CONSTRUCTION IN ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE GENERAL NOTES AND THE TYPICAL DETAILS.

G3 THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATED PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G4 CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE (ENGINEER FILL IN) 20XX INTERNATIONAL BUILDING CODE AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN. IN THE EVENT OF A CONFLICT BETWEEN THE BUILDING CODE AND THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G5 ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOBSITE DURING CONSTRUCTION.

G6 UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM, BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.

G7 THE ROOF STRUCTURE AND IT'S SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT ADEQUATE AND SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

G8 THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN CLARIFICATIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

G9 THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

G10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

G11 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. REDUNDANT DIMENSIONS AND OTHER INFORMATION INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS MAY OR MAY NOT BE PROVIDED IN THE STRUCTURAL DRAWINGS. THE ENTIRE SET OF CONTRACT DOCUMENTS IS REQUIRED TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. THE CONTRACTOR SHALL ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. IF THERE IS SPECIFIC DIMENSIONAL OR OTHER INFORMATION THAT THE CONTRACTOR FEELS CAN NOT BE DETERMINED FROM THE CONTRACT DOCUMENTS AS A WHOLE, THEN THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER. THE ADDITIONAL INFORMATION WILL BE PROVIDED, OR THE CONTRACTOR WILL BE INFORMED WHERE THE INFORMATION CAN BE FOUND, OR HOW IT CAN BE CALCULATED FROM INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS.

G12 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS ANCILLARY DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S, AND HIS DETAILER'S, RESPONSIBILITY TO ESTABLISH WHERE SUCH ANCILLARY DIMENSIONS ARE NECESSARY AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

G13 ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. REF ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT INDICATED ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

G14 THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS SO STATED OR NOTED, THEY DO NOT INDICATE COMPONENTS THAT ARE NECESSARY FOR SUPPORTING AND STABILIZING THE WORK DURING CONSTRUCTION OR THE MEANS AND METHODS OF CONSTRUCTION, ALL OF WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

G15 ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, FOR INSPECTIONS UNLESS SPECIFICALLY INCLUDED IN THE ENGINEER'S CONTRACT.

G16 THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS INDICATED IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR RELOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION.

G17 VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS NOT INDICATED IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

G18 ELEVATIONS PROVIDED IN THE STRUCTURAL DRAWINGS ARE RELATIVE ELEVATIONS AND ARE NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATIONS OF VARIOUS ELEMENTS OF THE BUILDING.

G19 LOCATIONS AND LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS INDICATED ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN LOCATION, TYPE, SIZE, WEIGHT, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

G20 PROPOSED SUBSTITUTIONS OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE CONTRACTOR'S PERCEIVED INTEREST TO THE OWNER FOR ACCEPTING THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT OR OTHER INDEPENDENT VERIFICATION OF THE PRODUCTS PERFORMANCE. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "NOTICE IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES OR DEVIATIONS ARE BEING PROPOSED AND THEY ARE ACCOMPANIED WITH THE REQUIRED BACKUP DATA. PROPOSED SUBSTITUTIONS OR DEVIATIONS WILL NOT BE REVIEWED OR RESPONDED TO WITHOUT THE REQUIRED BACKUP DATA. THE CONTRACTOR SHALL REMAIN LIABLE FOR ANY SUBSTITUTION OR DEVIATION UNLESS ACKNOWLEDGMENT AND ACCEPTANCE IS PROVIDED BY THE ENGINEER IN WRITING.

G21 THE CONTRACTOR SHALL COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

G22 DO NOT SCALE THE DRAWINGS IN THE STRUCTURAL DOCUMENTS FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

G23 CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND 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.

G24 THE CONTRACTOR SHALL ARRANGE PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

G25 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES OR OTHER OBSTRUCTIONS IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF A DISCOVERED ITEMS WITH THE CONSTRUCTION OF NEW FOUNDATION ELEMENTS.

EXISTING CONDITIONS:

EX1 EXISTING CONDITIONS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF ANY EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS INDICATED ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER.

EX2 ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

EX3 THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

EX4 REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

EX6 EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.

EX7 THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.

EX8 DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.

EX9 THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.

EX10 WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

SHOP DRAWINGS:

SDR1 SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

SDR2 THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.

SDR3 THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

SDR3 SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.

SDR4 THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.

A. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.
B. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.

SDR5 OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

SDR6 THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.

SDR7 SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

SDR8 COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

GEOTECHNICAL REPORT:

GR1 FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:

GEOTECHNICAL CONSULTANT:	TERRACON CONSULTANTS, INC.
GEOTECHNICAL REPORT NUMBER:	88195059
GEOTECHNICAL REPORT NAME:	PSJA NORTH SCHOOL SOFTBALL & BASEBALL FIELD TURF
GEOTECHNICAL REPORT LOCATION:	ALAMO, TX
GEOTECHNICAL REPORT DATE:	JUNE 18, 2019

GR2 THE GEOTECHNICAL REPORT IS AVAILABLE TO THE CONTRACTOR AS A REFERENCE DOCUMENT UPON REQUEST TO THE OWNER.

GR3 THE CONTRACTOR SHALL READ THE GEOTECHNICAL INVESTIGATION REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE RECOMMENDATIONS LISTED IN GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.

GR4 THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR APPLICABILITY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.

GR5 THESE PLANS, AND THE PROJECT SPECIFICATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND COMMENT BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO ENSURE CONFORMANCE BETWEEN THE FOUNDATION DESIGN AND THE INTERPRETATION OF THE GEOTECHNICAL RECOMMENDATIONS.

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

GEOTECHNICAL REPORT WITHOUT LOAD BEARING VALUES:

NG1 LOAD BEARING VALUES WERE NOT AVAILABLE NOR PRODUCED BY THE OWNER FOR OUR USE ON THIS PROJECT. AS A RESULT, FOR THE FOUNDATION PORTIONS OF THIS PROJECT, WE PERFORMED OUR ANALYSIS UTILIZING THE PRESUMPTIVE LOAD-BEARING VALUES OF SOILS SECTION OF THE IBC FOR DETERMINATION OF THE ALLOWABLE VERTICAL AND LATERAL LOADING CAPACITIES. SEE IBC 2015 SECTION 1806 PRESUMPTIVE LOAD-BEARING VALUES OF SOIL AND ASSOCIATE TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES, CLASS 5 SOILS HAVE BEEN ASSUMED FOR USE IN DESIGN ON THIS PROJECT.

TABLE BELOW TAKEN FROM IBC 2015 SECTION 1806
TABLE 1806.2
PRESUMPTIVE LOAD-BEARING VALUES

CLASS OF MATERIALS	VERTICAL FOUNDATION PRESSURE (PSF)	LATERAL BEARING PRESSURE (PSF/FT BELOW NATURAL GRADE	LATERAL SLIDING RESISTANCE	
			COEFFIECIENT OF FRICTION[A]	COHESION (PSF)[B]
1. CRYSTALLINE BEDROCK	12,000	1,200	0.70	---
2. SEDIMENTARY AND FOLIATED ROCK	4,000	400	0.35	---
3. SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000	200	0.35	---
4. SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC,GM AND GC)	2,000	150	0.25	---
5. CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500	100	---	130

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT PER FOOT = 0.157 kPa/m
a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD
b. COHESION VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1806.3.2

FOOTINGS

F1 FOOTINGS DESIGNS ARE BASED UPON THE INFORMATION GIVEN IN THE GENERAL NOTES SECTION: DRAWINGS ISSUED WITHOUT GEOTECHNICAL REPORT. REFER TO TYPICAL FOOTING DETAIL FOR SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES IS SHOWN ON PLANS.

F2 FOOTINGS CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE IBC 2015. ANY ACCUMULATED WATER SHALL BE PUMPED FROM THE EXCAVATION PRIOR TO CONCRETE PLACEMENT AND REINSPECTED.

F3 FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE. WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.

F4 PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.

F5 ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.

F6 REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.

F7 ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL LABORATORY IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.

F8 THE TOPS OF ALL PERIMETER FOOTINGS SHALL BE AT LEAST 24 INCHES BELOW THE FINAL SURROUNDING GRADE.

F9 TEMPLATES SHALL BE UTILIZED TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. DETAILS OF THE TEMPLATES SHALL BE PROVIDED IN THE FOOTING SHOP DRAWINGS.

GENERAL FOUNDATION NOTES:

FD1 GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED.

FD2 REFERENCE THE FOUNDATION PLAN FOR SIZE AND SPACING OF SLAB-ON-GRADE REINFORCEMENT.

FD3 PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS UNLESS NOTED OTHERWISE. REFER TO TYPICAL CORNER BAR DETAIL.

FD4 FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.

FD5 PROVIDE WATERSTOPS AT ALL SUB GRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUB GRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS INDICATED IN THE DOCUMENTS.

FD6 NO VERTICAL CONDUIT, SLEEVE OR PIPE IS PERMITTED TO BE EMBEDDED IN CONCRETE BEAM WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS SPECIFICALLY DETAILED OTHERWISE.

SHEET LIST - NORTH HIGH SCHOOL

SHEET NUMBER	SHEET NAME
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 102	NORTH HS BASEBALL SITE PLAN
S 202	NORTH HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT	
PSJA ISD	
PROJECT NUMBER	19141SP
DATE	08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 000

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER
Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM

AGE
&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

CONCRETE MIX:

CM1 CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGN SCHEDULE								
USE	28-DAY STRENGTH (PSI)	SLUMP (IN)	MAX. WATER CEMENT RATIO	MAX. CURED DENSITY (PCF)	MAX. AGGREGATE SIZE (IN)	CEMENT TYPE	MAX. ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
FOOTINGS	3,000	3-5	0.50	150	1"	I / II	30	5
BEAMS	4,000	3-5	0.50	150	1"	I / II	20	-
WALLS	4,000	6-8	0.50	150	1"	I / II	30	5

CM2 CHANGING MATERIAL PROPORTIONS, PROPERTIES, SOURCES, COMBINATIONS, ADDITIONS OR ANYTHING WHICH IS A CHANGE IN THE APPROVED MIX DESIGN REQUIRES A NEW MIX DESIGN SUBMITTAL. ADMIXTURES PLACED IN THE CONCRETE MIX SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INCLUDED IN THE SUBMITTED CONCRETE MIX DESIGN FOR APPROVAL.

CM3 CONCRETE SLUMPS INDICATED ABOVE ARE AFTER THE ADDITION OF WATER-REDUCING ADMIXTURES OR PLASTICIZERS. SLUMP AT THE POINT OF PLACEMENT SHALL NOT EXCEED AMOUNT SPECIFIED. DO NOT PLACE CONCRETE WITH SLUMP AND TEMPERATURE OUTSIDE THE LIMITS PROVIDED ON THE APPROVED MIX DESIGNS. USE OF CHLORIDES IN ANY ADMIXTURE IS NOT PERMITTED.

CM4 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN THE SCHEDULE (MASS CONCRETE SHALL ONLY BE TYPE II CEMENT). NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.

CM5 FLY ASH SHALL NOT BE USED AS A CONSTITUENT IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO THE MAXIMUM PERCENTAGE LISTED ABOVE. THE WEIGHT OF THE FLY ASH SHALL BE ADDED TO THE WEIGHT OF THE CEMENT IN THE CALCULATION OF THE WATER CEMENT RATIO. THE CONTRACTOR SHALL CONFIRM IN THE MIX DESIGN SUBMITTAL THAT THE USE OF FLY ASH WILL NOT INTERFERE WITH THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WITH THE CONCRETE.

CM6 AIR ENTRAINMENT IS REQUIRED ONLY IN NORMAL WEIGHT CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS 1.5 %. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.

CM7 MIX FOR TOPPING SLABS THAT ARE LESS THAN TWO INCHES THICK SHALL CONTAIN "FIBERMESH" POLYPROPYLENE, MD GRADED FIBERS WITH A MINIMUM RATIO OF 1.5 POUNDS PER CUBIC YARDS. ALSO, REFER TO NOTES SECTIONS ON NON-METALLIC REINFORCEMENT AND NON-COMPOSITE TOPPING SLABS.

CM8 SHRINKAGE LIMIT FOR CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL BE 0.045% AT 28 DAYS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS TO THE ENGINEER PRIOR TO CONSTRUCTION.

CM9 NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT AT CONTRACTOR'S OPTION.

CM10 THE COMPRESSIVE STRENGTH OF GROUT BELOW BASE PLATES SHALL BE AT LEAST 7000 PSI.

CM11 TESTING ACCEPTANCE CRITERIA FOR CAST-IN-PLACE CONCRETE IS IN THE SPECIFICATIONS.

CM12 USE CALCIUM NITRITE AT A RATE OF TWO GALLONS/CUBIC YARD IN EXPOSED PARKING GARAGE STRUCTURES AND EXTERIOR TOPPING SLABS.

CM13 CONTRACTOR SHALL SUBMIT THE MIX DESIGN SUBMITTALS TO THE PROJECT'S TESTING LABORATORY PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER. A SUBMITTAL WITHOUT TESTING LABORATORY'S APPROVAL WILL BE REJECTED.

CONCRETE REINFORCING:

CR1 REINFORCING STEEL SHALL CONFORM TO ASTM A615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. GRADES SHALL BE AS FOLLOWS:
- A. #3 THROUGH #10.....GRADE 60
- B. #11 THROUGH #18.....GRADE 75

CR2 REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS INDICATED ABOVE. WELDING SHALL CONFORM TO AWS D1.4. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE DRAWINGS.

CR3 ELECTRICALLY-WELDED WIRE REINFORCEMENT (WWR) OF COLD-DRAWN WIRE (70,000 PSI YIELD) SHALL CONFORM TO ASTM A185, OF SIZE INDICATED ON DRAWINGS.

CR4 ALL HEADED STUDS AND DEFORMED BAR ANCHORS (DBA) SHALL BE WELDED BY FULL-FUSION PROCESS, AS FURNISHED BY TRW NELSON STUD WELDING DIVISION OR EQUAL.

CR5 DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI 315.

CR6 IN GENERAL, CLEAR CONCRETE COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (WITH OR WITHOUT VAPOR RETARDER):	ALL	3"	3/8"
EXPOSED TO EARTH OR WEATHER	#5 BAR AND SMALLER	1 1/2"	3/8"
	#6 BAR AND LARGER	2"	1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: (TYPICAL INTERIOR CONDITIONS, CRAWL SPACES, AND UNDERSIDE OF PARKING FLOORS ARE IN THIS CATEGORY)	SLABS AND WALLS	1"	3/8"
	WIDE PAN, SKIP JOISTS AND BEAMS	1 1/2"	1/2"
	COLUMNS	1 5/8"	1/2"

CR8 SPECIFIC COVER REQUIREMENTS ARE AS FOLLOWS:
(REF TABLE ABOVE IF SPECIFIC CASE IS NOT LISTED)

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
GRADE BEAMS, TOP, BOTTOM AND SIDES WHEN THREE SIDES FORMED-OTHERWISE REF ABOVE	ALL	2"	3/8"
SLAB BOTTOMS OVER VOID FORMS	ALL	2"	3/8"
SLAB-ON-GRADE	ALL	2"	+3/8" - 0"
PIERS	ALL	3"	3/8"
EXTERIOR FACE OF TILT-UP WALL PANELS (MEASURED FROM INSIDE FACE OF REVEAL)	REF TYP DETAIL		3/8"
			3/8"
INTERIOR FACE OF TILT-UP WALL PANELS	REF TYP DETAIL		3/8"
			3/8"
EDGE OF TILT-UP WALL PANELS	MAIN REINFORCEMENT	2"	3/8"
	TIES & STIRRUPS	1 1/2"	3/8"

CR9 ALL SCHEDULED REINFORCING BARS SHALL BE DETAILED ACCORDING TO THE BAR BENDING DIAGRAMS, SECTIONS AND DETAILS. FOR BARS IN UNSCHEDULED CONCRETE MEMBERS WITHOUT A SPECIFIED BAR TYPE, SHAPE OR LENGTH, DETAIL BARS ACCORDING TO THE FOLLOWING CRITERIA:
- A. DETAIL ALL BARS CONTINUOUSLY WITH HOOKS AND SPLICES SPECIFIED BELOW.
- B. HOOKS:
  1. ALL BEAM, WALL AND SLAB TOP BARS AND INTERMEDIATE BARS SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
  2. ONE-THIRD OF THE BEAM AND WALL BOTTOM BARS (TWO BARS MINIMUM) SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
- C. SPLICE TYPES (TYPICAL, UNLESS NOTED OTHERWISE):
  1. #3 TO #11 BARS: LAP SPLICES
  2. #14 AND #18 BARS: MECHANICAL SPLICES
- D. SPLICE LOCATIONS (TYPICAL, UNLESS NOTED OTHERWISE):
  1. SPLICE VERTICAL BARS IN COLUMNS AND WALLS ONLY AT FLOOR LINES. SLOPE OF INCLINED PORTION OF THE OFFSET BENT BARS LAP SPLICES SHALL NOT EXCEED 1 TO 6 (HORIZONTAL TO VERTICAL).
  2. SPLICE TOP BARS AT MIDSPAN BETWEEN SUPPORTS. NOTE - TOP BAR LAP SPLICES ARE NOT ALLOWED AT THE FOLLOWING LOCATIONS:
     a. CANTILEVER SPANS.
     b. SPANS ADJACENT TO CANTILEVERS.
     c. SPANS WITH LENGTHS LESS THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
  3. WHERE SPECIFIED TOP BARS IN ADJACENT BEAMS ARE DIFFERENT, PROVIDE THE LARGER OF THE REINFORCING OVER THE COMMON SUPPORT OF THE TWO ADJACENT BEAMS AND LOCATE THE LAP SPLICE BETWEEN THE LARGER BARS AND THE SMALLER BARS AT MID SPAN OF ONE OF THE BEAMS WITH THE SMALLER BARS SPECIFIED.
  4. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS.
  5. ALTERNATE SPLICES OF INTERMEDIATE BEAM BARS AND HORIZONTAL WALL BARS BETWEEN MIDSPANS AND SUPPORTS, WITH NO MORE THAN 50 PERCENT OF THE BARS ON EITHER FACE SPLICED AT THE SAME LOCATIONS.
  6. ALTERNATE MECHANICAL SPLICE LOCATION BY TWO FEET WITH NO MORE THAN 50 PERCENT OF THE BARS SPLICED AT THE SAME LOCATIONS.

CR10 PROVIDE DOWELS AT ALL EDGES OF CONCRETE SLABS PER TYPICAL SLAB DOWEL DETAIL.

CR11 PROVIDE DOWELS TO MATCH MASONRY WALL VERTICAL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU WALL PER THE LAP SCHEDULES IN CMU TYPICAL DETAILS, U.N.O.

CR12 SPLICING OF WELDED WIRE MESH SHALL BE AS FOLLOWS:
- A. INSTALL WELDED WIRE FABRIC IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS. THE LENGTH OF LAP SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL NOT BE LESS THAN ONE SPACING OF THE CROSS WIRES PLUS 2 INCHES. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.

CR13 EPOXY-COATED REINFORCEMENT:
- A. PROVIDE EPOXY-COATED REINFORCEMENT AS FOLLOWS:
  1. FOR REINFORCING EMBEDDED IN CONCRETE USE HILTI-HY 200 ADHESIVE
  2. FOR REINFORCING EMBEDDED IN CMU WALLS USE HILTI-HY 70 ADHESIVE
- B. EPOXY-COATING OF REINFORCEMENT SHALL CONFORM TO ASTM A 775.
- C. WHEN REQUIRED, REPAIR DAMAGED EPOXY-COATING WITH PATCHING MATERIAL CONFORMING TO ASTM A 775. REPAIR IN ACCORDANCE WITH PATCHING MATERIAL MANUFACTURER'S RECOMMENDATIONS.
- D. FASTEN EPOXY-COATED REINFORCEMENT WITH NYLON-, EPOXY-, OR PLASTIC-COATED WIRE OR EQUIVALENT.
- E. SUPPORT EPOXY-COATED REINFORCEMENT FROM FORMWORK ON COATED WIRE BAR SUPPORTS OR ON BAR SUPPORTS MADE OF DIELECTRIC MATERIAL OR EQUIVALENT.
- F. DO NOT WELD EPOXY-COATED REINFORCEMENT.
- G. DO NOT FIELD BEND EPOXY-COATED REINFORCEMENT.
- H. EPOXY-COATED REINFORCEMENT CUT IN FIELD SHALL HAVE ENDS OF REINFORCEMENT COATED WITH SAME MATERIAL USED FOR REPAIR OF COATING DAMAGE.
- I. FADING OF COLOR OF COATING SHALL NOT BE CAUSE FOR REJECTION.
- J. REINFORCEMENT AT TIME CONCRETE IS PLACED, SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT MAY ADVERSELY AFFECT OR REDUCE BOND. DO NOT CLEAN REINFORCEMENT WITH A MATERIAL OR BY A METHOD WHICH WILL DETERIORATE EPOXY-COATING.

CAST-IN-PLACE CONCRETE:

CIP1 ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT REQUIREMENT OF EITHER THE INTERNATIONAL BUILDING CODE (2015) OR THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) (2014).

CIP2 CONSTRUCTION JOINTS:
- A. PERMITTED ONLY WHERE INDICATED ON DRAWINGS.
- B. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
  1. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST-TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
  2. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
- D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
- E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER.

CIP3 CONDUITS, PIPES AND SLEEVES
- A. VARIOUS CONDUITS, PIPES AND SLEEVES WHICH ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MAY BE REQUIRED BY EQUIPMENT SUPPLIERS OR THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. COORDINATE AND IMPLEMENT THESE ITEMS INTO THE CONCRETE WORK OBSERVING THE FOLLOWING GUIDELINES.
- B. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL COMPLY WITH ACI 318, AND THESE SPECIFIC NOTES. THESE NOTES SHALL GOVERN WHERE THEY ARE IN CONFLICT WITH ACI. ALUMINUM EMBEDDED ITEMS ARE NOT PERMITTED.
- C. HORIZONTAL CONDUITS AND PIPES EMBEDDED IN SLABS.
  1. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB.
  2. THE CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL NOT BE LESS THAN 3 OUTSIDE DIAMETERS OR 6 INCHES, WHICHEVER IS GREATER.
  3. PLACE CONDUITS AND PIPES WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS.
  4. DO NOT REPOSITION REINFORCING FROM ITS SPECIFIED LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES IN SLABS.
- D. HORIZONTAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS UNLESS NOTED OTHERWISE.
  1. HORIZONTAL SLEEVES, CONDUITS OR PIPES SHALL PASS THROUGH AT RIGHT ANGLES TO THE SIDES OF BEAMS AND SHALL NOT BE PLACED LONGITUDINALLY WITHIN BEAMS.
  2. REFER TO TYPICAL DETAILS FOR ALLOWABLE PLACEMENT AND SIZE OF HORIZONTAL SLEEVES, CONDUITS OR PIPES AND REQUIRED ADDITIONAL REINFORCING.
- E. VERTICAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS.
  1. VERTICAL SLEEVES, CONDUITS OR PIPES IN BEAMS SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
- F. SLEEVES, CONDUITS OR PIPES, UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS, ARE NOT ALLOWED IN PILASTERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.
- G. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT PLATES IS NOT PERMITTED WITHIN FIVE FEET IN ANY DIRECTION OF COLUMN FACE UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- H. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT SLABS WITH DROP PANELS IS NOT PERMITTED WITHIN THE DROP PANEL UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- I. CORING OF TWO-WAY SLABS IS NOT PERMITTED UNLESS ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER AND SLAB REINFORCEMENT IS LOCATED AND AVOIDED.

CIP4 WET CURE ALL CONCRETE THAT WILL BE COLORED OR STAINED.

CIP5 HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

CIP6 REMOVAL OF FORMWORK:
- A. EXCEPT AS HEREIN SPECIFIED, REMOVE FORMWORK AND RESHORE IN ACCORDANCE WITH ACI 301 AND RECOMMENDATIONS OF ACI 347 TO ENSURE COMPLETE SAFETY OF FORMWORK AND STRUCTURE.
- B. FORMWORK FOR COLUMNS, WALLS, SIDES OF BEAMS AND OTHER PARTS NOT SUPPORTING WEIGHT OF CONCRETE MAY BE REMOVED AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO RESIST DAMAGE FROM FORMWORK REMOVAL OPERATIONS.
- C. RETAIN FORMS AND SHORING FOR ALL HORIZONTAL WORK UNTIL CONCRETE HAS ACHIEVED AT LEAST 75% OF ITS DESIGNATED 28-DAY COMPRESSIVE STRENGTH AND WILL SAFELY SUPPORT ITS OWN WEIGHT AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.
- D. RETAIN FORMS AND SHORING FOR POST-TENSIONED GIRDERS, BEAMS, AND SLABS UNTIL MEMBER HAS BEEN FULLY TENSIONED AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.

CIP7 RESHORING:
- A. NO CONSTRUCTION LOADS OR LIVE LOADS ARE PERMITTED ON FLOOR DURING STRIPPING AND UNTIL RESHORING IS COMPLETE.
- B. BEGIN RESHORING AFTER FORMS AND SHORES HAVE BEEN REMOVED FROM A LARGE ENOUGH AREA SUCH THAT FLOOR DEFLECTS AND SUPPORTS ITS OWN WEIGHT. COMPLETE RESHORING NO LATER THAN END OF WORKING DAY ON WHICH STRIPPING OCCURS.
- C. PLACE RESHORES SNUG AGAINST SOFFIT OF FLOOR ABOVE. DO NOT TIGHTEN RESHORES AS TO PRELOAD FLOOR BELOW.
- D. LOCATE SHORES AND RESHORES ONLY ABOVE WHERE RESHORES ARE LOCATED BELOW. WHERE SHORES OR RESHORES ARE NOT ALIGNED WITH RESHORES BELOW, SUBMIT DESIGN CALCULATIONS, PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, INDICATING THAT INDUCED STRESSES DO NOT EXCEED CAPACITY OF SLAB.
- E. EXTEND RESHORING OVER A SUFFICIENT NUMBER OF FLOORS TO DISTRIBUTE WEIGHT OF NEWLY PLACED CONCRETE, FORMWORK AND CONSTRUCTION LIVE LOADS IN SUCH A MANNER THAT SPECIFIED DESIGN LIVE LOADS (TAKING INTO ACCOUNT APPLICABLE LIVE LOAD REDUCTION) OF FLOORS BELOW ARE NOT EXCEEDED. NUMBER OF FLOORS REQUIRED TO SUPPORT WET CONCRETE SHALL BE DETERMINED BY CONTRACTOR'S LICENSED ENGINEER.
- F. DO NOT REMOVE RESHORES SUPPORTING ROOFS UNTIL CONCRETE HAS ACHIEVED 100% OF ITS SPECIFIED 28-DAY STRENGTH OR 21 DAYS, WHICHEVER IS LONGER.

CIP8 PROVIDE A MINIMUM 4 INCH THICK HOUSE KEEPING PAD BELOW MEP EQUIPMENT (SEE TYPICAL DETAIL). REFER TO THE MEP OR ARCH PLANS FOR LOCATIONS AND SIZES OF THESE PADS.

CIP9 UNLESS SPECIFICALLY NOTED OTHERWISE, THE TOP OF ALL CONCRETE SURFACES THAT SUPPORT PRECAST, MASONRY, CURTAIN WALL SYSTEMS, ETC., SHALL HAVE A TROWELED FINISH AND BE FLAT AND LEVEL

CIP10 WATERSTOPS:
- A. PROVIDE WATERSTOPS AT ALL SUBGRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUBGRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS AS INDICATED IN THE DOCUMENTS.

CIP11 PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS, JOISTS, WALLS AND SLABS (INCLUDING SLABS ON CARTON FORMS, IF APPLICABLE) IN ACCORDANCE WITH THE TYPICAL DETAILS.

CIP12 GRADE BEAMS AT DOCKS AND SIMILAR CONDITIONS (BOTH EXTERIOR AND INTERIOR) WHERE BACKFILL IS PLACED UP TO OR NEAR THE TOP OF THE BEAM OR WALL ON ONE SIDE AND THE GRADE ON THE OTHER SIDE OF THE BEAM OR WALL IS MORE THAN 2'-0" LOWER SHALL BE LATERALLY BRACED FROM THE LOW SIDE PRIOR TO PLACING THE FILL ON THE OTHER SIDE. THIS BRACING SHALL REMAIN UNTIL THE FLOOR SLAB AT THE TOP OF THE BEAM OR WALL HAS BEEN CONSTRUCTED AND HAS ATTAINED ITS SPECIFIED 28 DAY STRENGTH.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 001

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - ConsultantsArch\2019-08-01 - Backgrounds and PDFs\North High SchoolCS-NORTH TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:07:17 PM

AG&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

EMBEDDED SHEAR-STUD CONNECTORS:

SC1 SHEAR-STUD CONNECTIONS SHALL BE NELSON FLUXED SHEAR CONNECTORS (SC) OR APPROVED EQUAL. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD. ALL STUD WELDS SHALL BE MANUFACTURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE NELSON STUD WELDING DIVISION, LORAIN, OHIO. SHEAR-STUDS SHALL BE MANUFACTURED OF C1015, C1017, OR C1020 COLD DRAWN STEEL CONFORMING TO ASTM A108.

POST-INSTALLED CONCRETE ANCHORS:

PA1 USE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBMIT SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CONTACT MANUFACTURE'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

PA2 POST INSTALLED CONCRETE ANCHORS SHALL BE OF SIZE, TYPE, AND QUANTITY AS NOTED ON DETAILS, AS MANUFACTURED BY HILTI, SIMPSON STRONG-TIE, OR POWERS ANCHOR SYSTEMS. NO OTHER MANUFACTURER IS PERMITTED. ANCHORS FROM ONLY ONE MANUFACTURER SHALL BE UTILIZED ON THE PROJECT.

PA3 HOLES IN CONNECTION PLATES FOR EXPANSION BOLTS SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF FIELD CONDITIONS OR TOLERANCES REQUIRE LARGER HOLES, PROVIDE PLATE WASHERS WITH BOLTS HOLES 1/16" LARGER THAN BOLT DIAMETER THAT ARE WELDED TO THE CONNECTION PLATE. THE CONTRACTOR SHALL SIZE THE PLATE WASHERS AND WELDS TO TRANSFER THE SHEAR AND TENSION CAPACITY OF THE EXPANSION BOLT.

PA4 INSTALL ALL POST INSTALLED BOLTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

PA5 PRIOR TO DRILLING FOR ANCHORS, A PACHOMETER OR ANOTHER APPROVED METHOD SHALL BE USED TO LOCATE EXISTING REINFORCING TO ENSURE THERE IS NO CONFLICT. IF A CONFLICT EXISTS, THE ANCHORS POSITION CAN BE ADJUSTED BY NO MORE THAN 1 INCH. IF A LARGER DEVIATION IS NECESSARY, CONTACT THE ENGINEER. ABANDONED OR UNUSED HOLES SHALL BE FILLED WITH EPOXY GROUT.

PA6 ONCE THE FINAL POSITION OF THE ANCHORS IS SET, TEMPLATES SHALL THEN BE UTILIZED TO TRANSFER THE FINAL LOCATION OF THE BOLT GROUP ON TO THE CONNECTION PLATE.

PA7 CONSTRUCTION OF POST INSTALLED ANCHORS REQUIRES CONTINUOUS INSPECTION BY THE TESTING LAB TO ENSURE PROPER EMBEDMENT AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

ARCHITECTURAL (NON-STRUCTURAL) CONCRETE UNIT MASONRY:

NSM1 REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF ARCHITECTURAL (NON-STRUCTURAL) MASONRY WALLS ON THE PROJECT.

NSM2 LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C331 WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 1,900 PSI. CONCRETE MASONRY UNITS SHALL BE COMPOSED OF LIGHTWEIGHT AGGREGATE.

NSM3 MORTAR SHALL CONFORM TO ASTM C270, TYPE "S", CEMENT-LIME MORTAR, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI. MASONRY CEMENT AND MORTAR CEMENT SHALL NOT BE USED.

NSM4 GROUT SHALL CONFORM TO ASTM C476, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

NSM5 MASONRY SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'm) OF 1,500 PSI.

NSM6 REINFORCING STEEL SHALL CONSIST OF DEFORMED GRADE 60 BARS CONFORMING TO ASTM A615. BARS SHALL BE NEW BILLET STEEL OF A DOMESTIC MANUFACTURE.

NSM7 GROUT SHALL BE MECHANICALLY CONSOLIDATED (VIBRATED), AND RECONSOLIDATED, USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.

NSM8 HORIZONTAL JOINT REINFORCEMENT SHALL BE STEEL WIRE (LADDER TYPE) AND SHALL CONFORM TO ASTM A951. JOINT REINFORCEMENT SHALL BE SPACED AT 16" OC VERTICALLY.

NSM9 CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.

NSM10 CONCRETE MASONRY UNITS LOCATED BELOW GRADE SHALL HAVE ALL CELLS FULLY GROUTED AND CONCRETE MASONRY UNITS LOCATED ABOVE GRADE SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE.

NSM11 INSTALL TEMPORARY BRACING AT ALL CMU WALLS. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE NON-STRUCTURAL STRUCTURE.

NSM12 REFER TO THE CMU WALL VERTICAL REINFORCING SCHEDULE FOR WALL REINFORCEMENT.

NSM13 REFER TO THE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT OPENINGS, CONTROL JOINTS, CORNERS AND ENDS OF WALL PANELS.

NSM14 PROVIDE HORIZONTAL REINFORCEMENT AS INDICATED IN THE CMU WALL REINFORCING DIAGRAM. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.

NSM15 MASONRY CONSTRUCTION REQUIRES SPECIAL INSPECTION. REFERENCE SPECIAL INSPECTION REQUIREMENTS ON THE INSPECTIONS SCHEDULE SHEET.

STRUCTURAL CONCRETE UNIT MASONRY:

CM1 THESE NOTES APPLY ONLY TO MASONRY INDICATED ON THE STRUCTURAL FRAMING PLANS. MASONRY NOT INDICATED ON THE STRUCTURAL FRAMING PLANS IS NOT PART OF THE STRUCTURAL FRAME AND IS CONSIDERED ARCHITECTURAL (NON-STRUCTURAL) MASONRY.
- A. HOWEVER, ARCHITECTURAL (NON-STRUCTURAL) MASONRY MAY ALSO REQUIRE REINFORCING AND REQUIREMENTS FOR THIS REINFORCING CAN BE FOUND AS FOLLOWS:
  1. ARCHITECTURAL (NON-STRUCTURAL) MASONRY VERTICAL REINFORCING:
     - a. REFER TO "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" IN THE STRUCTURAL DRAWINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
  2. ARCHITECTURAL (NON-STRUCTURAL) MASONRY HORIZONTAL REINFORCING (INCLUDING HORIZONTAL JOINT REINFORCING):
     - a. REFER TO THE TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS FOR HORIZONTAL REINFORCING IN LINTELS AND BOND BEAMS OVER WALL OPENINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

CM2 ALL STRUCTURAL MASONRY INDICATED ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS INCLUDING CLIP ANGLES, DOWELS, AND ADDITIONAL SECONDARY FRAMING MEMBERS ETC. INDICATED ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING.

CM3 PROVIDE MASONRY PRISM STRENGTH (F'M)= 2,000 PSI, MINIMUM.

CM4 HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C 90, LIGHTWEIGHT, GRADE N, TYPE I OR II, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI ON THE NET AREA OF THE BLOCK. UNLESS NOTED OTHERWISE, USE RUNNING BOND CONSTRUCTION.

CM5 MORTAR SHALL CONFORM TO ASTM C 270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME AND 3 1/2 TO 4 1/2 PARTS FINE AGGREGATE. DO NOT USE AIR ENTRAINING LIME, MASONRY CEMENT OR ADMIXTURES. MEASURE MATERIALS WITH A BATCHING BOX - DO NOT MEASURE MATERIALS WITH A SHOVEL.

CM6 COARSE GROUT SHALL CONFORM TO ASTM C 476, WITH A MAXIMUM FINE AGGREGATE SIZE OF 3/8", A MAXIMUM COARSE AGGREGATE SIZE OF 1/2" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 0 TO 1/10 PART LIME, 2 1/4 TO 3 PARTS FINE AGGREGATE AND 1 TO 2 PARTS COARSE AGGREGATE. SLUMP SHALL BE 8" TO 11".

CM7 FINE GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT AND 2 1/4 TO 3 PARTS FINE AGGREGATE.

CM8 REFER TO TYPICAL STRUCTURAL CMU WALL REINFORCING SCHEDULE FOR VERTICAL CMU WALL REINFORCING UNLESS NOTED OTHERWISE IN THE DRAWINGS. REFER TO TYPICAL MASONRY DIAGRAM FOR DOWELS BETWEEN FOUNDATION AND MASONRY WALLS AND OTHER REINFORCING.

CM9 HORIZONTAL WALL REINFORCING IN BOND BEAMS OR TROUGH BLOCK UNITS SHALL BE STRAIGHT, PLACED CONTINUOUSLY AND FULLY GROUTED IN PLACE. REFER TO SCHEDULES, SECTIONS AND DETAILS FOR SPECIFIED HORIZONTAL REINFORCING. SPLICE BARS WHERE REQUIRED PER TENSION LAP SCHEDULE FOR STEEL REINFORCING IN CMU MINIMUM, TYPICAL UNLESS NOTED OTHERWISE, AND TIE THEM WITH WIRE.

CM10 REFER TO SCHEDULES, SECTIONS AND DETAILS FOR REINFORCING IN GROUTED COLUMNS, PILASTERS AND BEAMS. CLEAR GROUT COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE 1".

CM11 CONTINUOUS HORIZONTAL JOINT REINFORCING:
- A. SINGLE WYTHE WALLS:
  1. CONTINUOUS HORIZONTAL WALL JOINT REINFORCING FOR SINGLE WYTHE WALLS SHALL BE GALVANIZED, **STANDARD,** TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- B. CAVITY WALLS:
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD, TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE") TIES, TRUSS TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- C. CAVITY WALLS WITH TOTAL THICKNESS GREATER THAN 1'-4".
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD,**TRUSS** TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE"), **TRUSS** TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- D. PROVIDE CONTINUITY AT CORNERS AND INTERSECTIONS WITH PREFABRICATED CORNER AND TEE UNITS.
- E. SPLICE STANDARD HORIZONTAL WALL JOINT WIRE REINFORCING 11" MINIMUM AND PROVIDE AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
- F. COVER FROM JOINT REINFORCING TO EDGE OF MORTAR SHALL BE 5/8".

CM12 PROVIDE SHOP DRAWINGS SHOWING DETAILS OF BENDING AND PLACEMENT OF MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF REINFORCED WALLS AT OPENINGS AND AT OTHER LOCATIONS WHERE THE SPECIFIED REINFORCING IS MORE INVOLVED THAN SIMPLE VERTICAL BARS AT A SPECIFIED SPACING.

CM13 UNGROUTED MASONRY WALL CELLS MAY BE REQUIRED TO BE FILLED WITH SAND, VERMICULITE OR PERLITE FOR FIRE RATING, SOUNDPROOFING OR OTHER PURPOSES. REFER TO THE ARCHITECTURAL DRAWINGS FOR THESE REQUIREMENTS.

CM14 WHERE NOT INDICATED IN THE STRUCTURAL DRAWINGS (EXCEPT AT GROUTED WIDE CAVITY WALLS), PROVIDE 3/8" VERTICAL THROUGH-WALL CONTROL JOINTS AT 5'-0" TO 12'-6" FROM CORNERS AND AT 25'-0" OC MAX. IN BETWEEN. THE ARCHITECTURAL DRAWINGS MAY INDICATE VERTICAL CONTROL JOINTS IN THE MASONRY FACADE AT EACH EDGE OF WALL OPENINGS. HOWEVER, CONTROL JOINTS IN THE BACKUP CMU SHALL NOT BE LOCATED WITHIN WALL OPENINGS, AT THE EDGE OF WALL OPENINGS OR WITHIN THE VERTICAL GROUTED CELLS AT EACH SIDE OF THE WALL OPENINGS, REGARDLESS OF WHERE THE CONTROL JOINTS ARE INDICATED IN THE ARCHITECTURAL DRAWINGS FOR THE MASONRY FACADE. COORDINATE JOINT LOCATIONS TO MISS BEAM AND JOIST BEARINGS. CUT ALL HORIZONTAL REINFORCING AT CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE GROUTED CELLS AND REINFORCING AT EACH SIDE OF THE JOINT THE SAME AS AT THE END OF THE WALL. SUBMIT JOINT LAYOUT TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING WALL CONSTRUCTION. FOR STRUCTURAL MASONRY WALLS THAT ARE SHOWN IN THE STRUCTURAL DRAWINGS, THIS CRITERIA FOR CONTROL JOINT LOCATIONS TAKES PRIORITY OVER JOINT LOCATIONS THAT MAY OR MAY NOT BE SHOWN IN THE ARCHITECTURAL DRAWINGS FOR STRUCTURAL MASONRY WALLS.

CM15 LIMIT GROUT POURS TO 12 FEET IN HEIGHT FOR 8" AND THICKER WALLS AND 5 FEET IN HEIGHT FOR 6" THICK WALLS. BETWEEN GROUT POURS, FORM CONSTRUCTION JOINT BY LEAVING GROUT 1 1/2 INCHES BELOW THE MORTAR JOINT (1/2 INCH AT BOND BEAMS).

CM16 CLEANOUTS ARE REQUIRED FOR GROUT POURS OVER 5 FT. PROVIDE CLEANOUTS IN THE BOTTOM COARSE OF THE GROUT POUR AT EVERY VERTICAL BAR MINIMUM. CLEANOUTS SHALL BE ON NON-FINISHED SIDE OF MASONRY CONSTRUCTION.

CM17 PROVIDE TEMPORARY LATERAL WALL BRACING AS REQUIRED UNTIL THE FLOOR AND ROOF CONSTRUCTION, INCLUDING ALL STRUCTURAL COMPONENTS, AT THE TOP AND THE BOTTOM OF THE WALLS HAVE BEEN COMPLETED.

CM18 THE FOLLOWING NOTES APPLY ONLY TO GROUTED CAVITY WALLS THAT USE BRICK/MASONRY BLOCKS AND JOINT REINFORCING AS A FORM FOR GROUTED COLUMNS, PILASTERS AND BEAMS WITHIN THE WALL.
- A. HORIZONTAL WALL JOINT REINFORCING FOR GROUTED CAVITY WALLS SHALL BE GALVANIZED **STANDARD, TRUSS TYPE** "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. BOTH CROSS RODS AND SIDE RODS SHALL BE 3/16" IN DIAMETER. DO NOT USE ADJUSTABLE JOINT REINFORCING IN GROUTED CAVITY WALLS.
- B. PROVIDE Z TIES BETWEEN BRICK/MASONRY BLOCKS AND GROUT. Z TIES SHALL BE 3/16" DIAMETER X10" (TOTAL LENGTH) COLD DRAWN GALVANIZED WIRE WITH 2" LEG AT EACH END, CONFORMING TO ASTM A 82 TYPICAL. UNLESS NOTED OTHERWISE. PLACE ONE LEG IN MORTAR JOINT PARALLEL TO AND AT 3/4" FROM OUTSIDE FACE OF THE BRICK AND THE OTHER LEG IN GROUT.
  1. PLACE Z TIES AT 16" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL BRICK SURFACES, TYPICAL, UNLESS NOTED OTHERWISE.
  2. AT LINTEL BEAMS, PLACE Z TIES AT 8" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL (BOTTOM) BRICK SURFACES. Z TIES SHALL BE HOOKED AROUND 1/4" DIAMETER GALVANIZED RODS LOCATED IN THE HOLES THROUGH THE BOTTOM BRICKS.
- C. PROVIDE WEEP HOLES AT 2'-8" OC (2 WEEP HOLES MINIMUM) THROUGH THE EXTERIOR WYTHE OF THE MASONRY/BRICK VERTICAL JOINTS OVER FOUNDATION BEAMS/WALLS, BOND BEAMS, LINTEL BEAMS AND ALL OTHER PLACES WHERE CAVITY IS CONTINUOUSLY BLOCKED.
- D. INSULATION, WHERE SPECIFIED IN THE ARCHITECTURAL DRAWINGS, SHALL BE PLACED IN THE CAVITY IN STRIPS BETWEEN HORIZONTAL WALL JOINT REINFORCING AND SHALL NOT BE PLACED INTO GROUTED COLUMNS, PILASTERS OR BEAMS.

STATEMENT OF SPECIAL INSPECTIONS:

SI1 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE WITH LOCAL AMENDMENTS. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS SERVICES APPLICABLE TO THIS PROJECT.

SI2 THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS, APPROVED BY THE BUILDING OFFICIAL, TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION IN ACCORDANCE WITH BUILDING CODE. SPECIAL INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES.

SI3 THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT REPORTS OF INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATED THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. INTERIM TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED ON A DAILY BASIS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.

SI4 IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE REQUIRED SPECIAL INSPECTIONS AND TESTS ARE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

SI5 ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS AND TESTING PER THE BUILDING CODE ARE NOT LISTED HERE. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

SI6 THE FOLLOWING SPECIAL INSPECTIONS AND TESTS SCHEDULE CONTAINS A LIST OF THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS AND/OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK. REFER TO THE GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.

SPECIAL INSPECTIONS AND TESTS SCHEDULE PER IBC 2015

CHECK IF APPLICABLE	MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK	SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION
☐	STRUCTURAL STEEL	1705.2
■	CONCRETE CONSTRUCTION	1705.3
■	MASONRY CONSTRUCTION	1705.4
☐	WOOD CONSTRUCTION	1705.5
■	SOILS	1705.6
☐	DRIVEN DEEP FOUNDATIONS	1705.7
☐	CAST-IN-PLACE DEEP FOUNDATIONS	1705.8
☐	HELICAL PILE FOUNDATIONS	1705.9
☐	FABRICATED ITEMS	1705.10
☐	SPECIAL INSPECTIONS FOR WIND RESISTANCE	1705.11
☐	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	1705.12
☐	TESTING FOR SEISMIC RESISTANCE	1705.13

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 002

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

STRUCTURAL SUBMITTALS

SPECIFICATION SECTION	ITEM	FOR INFORMATION ONLY	FOR APPROVAL	SIGNED AND SEALED
03 10 00	FORMWORK SHOP DRAWINGS	X		X
03 10 00	MANUFACTURER'S PRODUCT DATA		X	
03 10 00	CONSTRUCTION JOINT LAYOUT	X		
03 11 31	VOID FORM PRODUCT DATA		X	
03 20 00	STEEL REINFORCING SHOP DRAWINGS		X	
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS		X	
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS		X	
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	X		
03 20 00	QUALIFICATION DATA	X		
03 20 00	WELDING CERTIFICATES	X		
03 30 00	CONCRETE MIX DESIGN		X	
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE		X	
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS		X	
03 30 00	PRODUCT DATA	X		
03 30 00	QUALIFICATION DATA	X		
03 30 00	MATERIAL TEST REPORTS	X		
03 30 00	FLOOR SURFACE FLATNESS	X		
03 30 00	FIELD QUALITY CONTROL REPORTS	X		
03 30 00	MINUTES OF PREINSTALLATION CONFERENCE	X		
04 22 00	CMU WALL SHOP DRAWINGS		X	
04 22 00	MIX DESIGN (MORTAR AND GROUT)		X	
04 22 00	MASONRY COMPRESSIVE STRENGTH		X	
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION		X	
04 22 00	MATERIAL CERTIFICATES	X		
04 22 00	COLD/HOT WEATHER PROCEDURES	X		
04 22 00	QUALIFICATION DATA	X		
06 10 00	PRODUCT DATA	X		
06 10 00	FASTENER PATTERNS		X	
06 10 00	MATERIAL CERTIFICATES	X		
06 10 00	EVALUATION REPORTS	X		
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS		X	
31 63 29	PIER CONCRETE MIX DESIGN		X	
31 63 29	PIER DRILLING LOG	X		

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIERS'S ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.

2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.

4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.

5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

DESIGN LOADS & DESIGN DATA

1.	BUILDING CODE		2015 INTERNATIONAL BUILDING CODE (IBC) / ASCE/SEI 7-10 WITH LOCAL AMENDMENTS	
2.	GRAVITY LOADS & DESIGN DATA			
	A.	DEAD LOADS	SELF WEIGHT	
	B.	SNOW LOADS		
	1.	GROUND SNOW LOAD, P_g	0 PSF	
	2.	FLAT ROOF SNOW LOAD, P_f	0 PSF	
	3.	SNOW EXPOSURE FACTOR, C_e	0.9	
	4.	SNOW RISK CATEGORY	III	
	5.	SNOW LOAD IMPORTANCE FACTOR, I	1.1	
	6.	THERMAL FACTOR, C_t	1.2	
3.	LATERAL LOADS & DESIGN DATA			
	A.	WIND DESIGN DATA		
	1.	BASIC WIND SPEED, V	139 MPH (3-SECOND GUST)	
	2.	WIND RISK CATEGORY	III	
	3.	WIND IMPORTANCE FACTOR, I	1.0	
	4.	WIND EXPOSURE CATEGORY	C	
	5.	INTERNAL PRESSURE COEFFICIENT, GC_{pi}	±0.18	
	C.	SEISMIC DESIGN DATA		
	1.	SEISMIC RISK CATEGORY	III	
	2.	SEISMIC IMPORTANCE FACTOR, I	1.25	
	3.	SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_s	0.042g	
	4.	1-SEC PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_1	0.014g	
	5.	SITE CLASS	D	
	6.	SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.045g	
	7.	1-SEC PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{D1}	0.022g	
	8.	SEISMIC DESIGN CATEGORY	A	
	9.	RESPONSE MODIFICATION FACTOR, R	2	
	10.	SYSTEM OVERSTRENGTH FACTOR, Ω	2.5	
	11.	DEFLECTION AMPLIFICATION FACTOR, Cd	2	
	12.	SEISMIC RESPONSE COEFFICIENT, Cs	0.028	
	13.	DESIGN BASE SHEAR, V	0.028W	
	14.	BASIC SEISMIC FORCE-RESISTING SYSTEM	NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
	15.	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	
4.	DEFLECTION LIMITS			
	C.	MEMBERS SUPPORTING MASONRY		
	1.	LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	L/600 or 0.3-INCH	

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 004

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:07:17 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
A G & E Structural Engenuity

SYMBOLS LEGEND

TOS EL 115'-0"	LEVEL ELEVATION
EL 115'-0"	SPOT ELEVATION
	VERTICAL BRACE
	LOAD BEARING CMU WALL AND/OR SHEARWALL
	LOAD BEARING CONC WALL AND/OR SHEARWALL
	MATCHLINE
4 S3.10 — DETAIL / SECTION DESIGNATION	DETAIL / SECTION REFERENCE CUT
4 S3.10	PARTIAL PLAN OR PLAN DETAIL REFERENCE
1 S-201	VERTICAL BRACE, SHEARWALL OR TRUSS ELEVATION REFERENCE
	SLOPE IN STRUCTURE, DROP IN STRUCTURE, RIDGES AND VALLEYS
RTU-1 — UNIT DESIGNATION PER MEP DRAWINGS REF SCHED FOR FULL OPERATING WEIGHT	MEP EQUIPMENT
*FACTORED TOTAL LOAD; JOIST DEPTH; DDCJ XXX / YYY / ZZZ; *FACTORED POST COMPOSITE LIVE LOAD; *FACTORED POST COMPOSITE DEAD LOAD; *NOTE: ALL JOIST GIRDER POINT LOADS HOWEVER ARE SERVICE LEVEL.	COMPOSITE JOIST (CJ) KEY
STEEL COLUMN; STEEL BEAM; DENOTES MOMENT CONNECTION (REF TYPICAL STEEL DETAILS FOR MOMENT CONN REQUIREMENTS)	MOMENT CONNECTION
HSS6x6x1/4 BP1; F1; FOOTING TYPE; 97'-0"; SPECIAL BASE PL TYPE; TOP OF FOOTING ELEVATION	COLUMN, BASE PLATE AND FOUNDATION MARK
W10X33 BP1; P1; PIER TYPE; 97'-0"; SPECIAL BASE PL TYPE; TOP OF PIER ELEVATION	
NUMBER OF HEADED SHEAR STUDS (IF REQD); STL BEAM SIZE; VERT BEAM REACTION IN KIPS; BEAM CAMBER (INCHES) (IF REQD); HORIZONTAL COLLECTOR / DRAG FORCE IN KIPS ON BOTH SIDES OF COLUMN (IF REQD); 15K W14x22 (20) C=3/4" 15K; H=15K; [-6"]; TO BEAM IF DIFFERENT FROM REFERENCE EL; COLLECTOR / DRAG CONNECTION (IF REQD)	STEEL BEAM KEY

1 SYMBOLS LEGEND
1/8" = 1'-0"

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LOC	LOCATION
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ARCH	ARCHITECTURAL	LWC	LIGHT WEIGHT CONCRETE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MC	MOMENT CONNECTION
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BL	BLOCK LINTEL	MIN	MINIMUM
BM	BEAM	MISC	MISCELLANEOUS
BO	BOTTOM OF	MO	MASONRY OPENING
BOS	BOTTOM OF STEEL	MTL	METAL
BOT	BOTTOM	NIC	NOT IN CONTRACT
BP	BASE PLATE	NO	NUMBER
BRG	BEARING	NS	NEAR SIDE
BTWN	BETWEEN	NTS	NOT TO SCALE
CGS	CENTROID OF TENDONS	NWC	NORMAL WEIGHT CONCRETE (150 PCF)
CIP	CAST IN PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OH	OPPOSITE HAND
CJP	COMPLETE JOINT PENETRATION	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PCC	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
CONN	CONNECTION	PT	POST-TENSIONING INSTITUTE
CONC	CONCRETE	PE	PROFESSIONAL ENGINEER
CONST	CONSTRUCTION	PEMB	PRE-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PENTR	PENETRATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DBA	DOWEL BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT
DL	DEAD LOADS	PP	PARTIAL PENETRATION
DT	DOUBLE TEE	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EDC	ELECTRICAL DISTRIBUTION CENTER	PT	POST-TENSIONING
EF	EACH FACE	QTY	QUANTITY
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RAF	RAISED ACCESS FLOOR
EJ	EXPANSION JOINT	REF	REFER TO
EL	ELEVATION	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
EQ	EQUAL	REV	REVERSE
EQUIV	EQUIVALENT	RO	ROUGH OPENING
EW	EACH WAY	RTU	ROOF TOP UNIT
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SE	STRUCTURAL ENGINEER
EXT	EXTERIOR	SHT	SHEET
FABR	FABRICATOR	SIM	SIMILAR
FDN	FOUNDATION	SJI	STEEL JOIST INSTITUTE
FF	FINISHED FLOOR	SOG	SLAB ON GRADE
FM	FACTORY MUTUAL	SPECS	SPECIFICATIONS
FRP	FIBER REINFORCED PLASTIC	STAG	STAGGERED
FS	FAR SIDE	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
FV	FIELD VERIFY	STRUC	STRUCTURAL
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TC	TRANSFER COLUMN
GR	GRADE	THK	THICKNESS
GYP BD	GYPSUM BOARD	TO	TOP OF
H	HEIGHT	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOF	TOP OF FOOTING
HSA	HEADED STUD ANCHOR	TOGB	TOP OF GRADE BEAM
IBC	INTERNATIONAL BUILDING CODE	TOM	TOP OF MASONRY
INFO	INFORMATION	TOP	TOP OF PAVING
INT	INTERIOR	TOS	TOP OF STEEL
ISO	ISOLATION	TOSC	TOP OF STRUCTURAL CONCRETE
IT	INVERTED TEE	TOW	TOP OF WALL
JBE	JOIST BEARING ELEVATION	TRANS	TRANSVERSE
JST	JOIST	T&S	TEMPERATURE AND SHRINKAGE
JT	JOINT	TYP	TYPICAL
KIP	1000 POUNDS	UL	UNDERWRITERS LABORATORIES
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
L	LENGTH	VERT	VERTICAL
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE	W	WIDTH
LB	POUNDS	WP	WORK POINT
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC

2 ABBREVIATION LEGEND
12" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 005

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



NOTE:
GENERAL CONTRACTOR SHALL COORDINATE LENGTH, SIZE AND LOCATION OF BACKSTOP, NETTING POLE, AND BATTER'S EYE POST LOCATIONS WITH CIVIL DRAWINGS.

NETTING POLE AND NETTING POLE FOUNDATIONS BY NETTING MANUFACTURER.

REFER TO S.401 FOR TYPICAL BATTER'S EYE POST FOUNDATION DETAILS

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:

   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

1 NORTH HIGH SCHOOL BASEBALL SITE PLAN
1" = 30'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

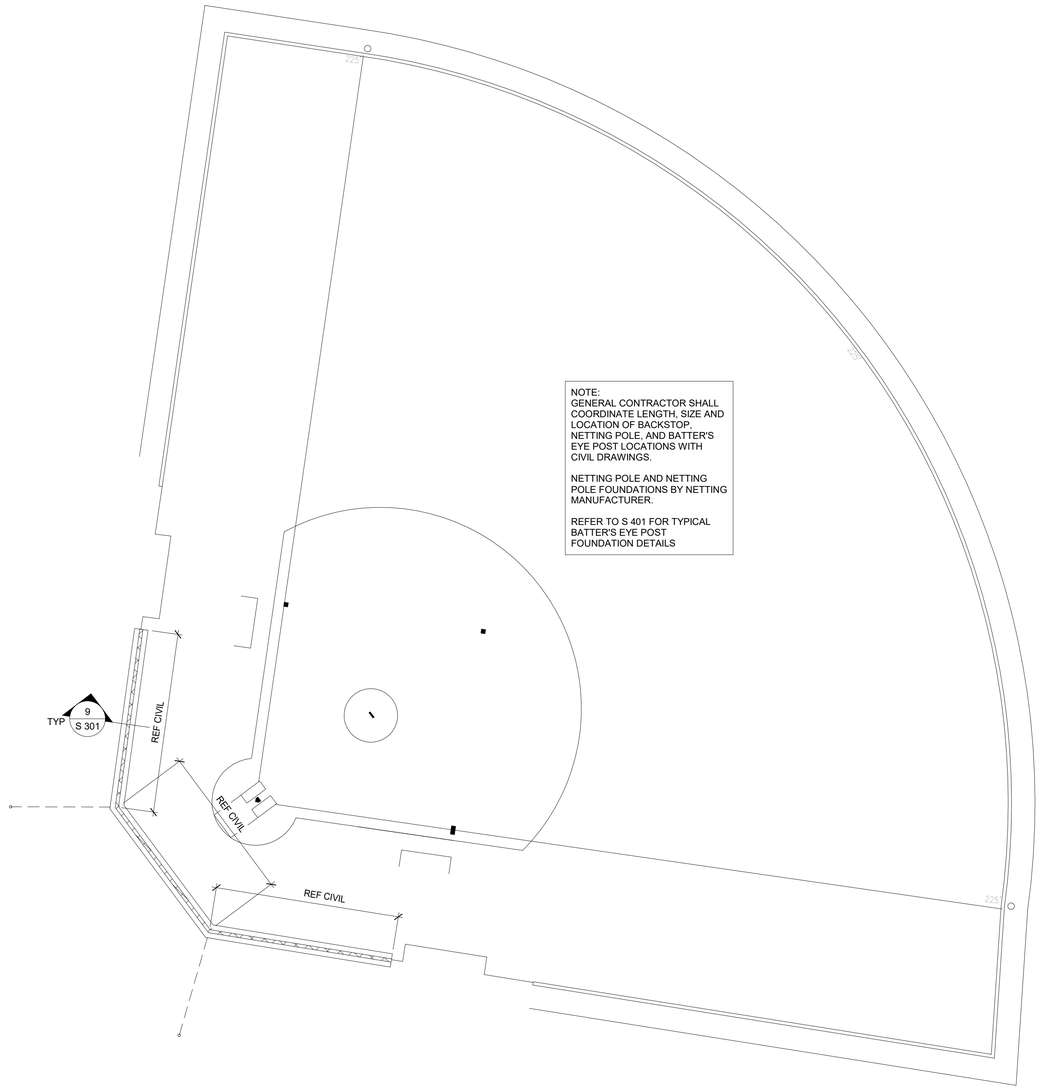
ISSUED FOR PROPOSAL

NORTH HS BASEBALL SITE PLAN

S 102

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - ConsultantsArch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



1 NORTH HIGH SCHOOL SOFTBALL SITE PLAN
3/64" = 1'-0"

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

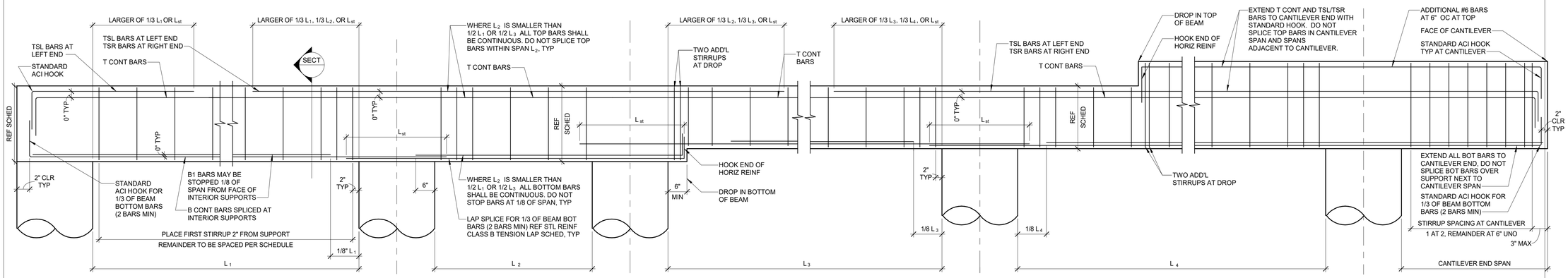
ISSUED FOR PROPOSAL

NORTH HS SOFTBALL SITE PLAN

S 202

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:07:17 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
PH: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
A G & E Structural Engenuity



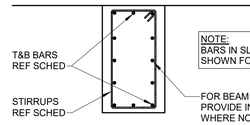
TYP END SUPPORT | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP CANTILEVER SUPPORT**

NOTES:

1. L_{st} = LAP SPLICE LENGTH - REF TYP STL REINF CLASS B TENSION LAP SCHED
2. SCHEDULED LEFT AND RIGHT END OF MEMBERS READ ON PLAN AS LEFT AND RIGHT OF THE SHEET OR BOTTOM AND TOP OF THE SHEET RESPECTIVELY AS SHOWN BELOW. SCHEDULED LEFT AND RIGHT END OF MEMBERS SHOWN DIAGONALLY ON PLAN READ AS LEFT AND RIGHT ON SHEET AS SHOWN BELOW:



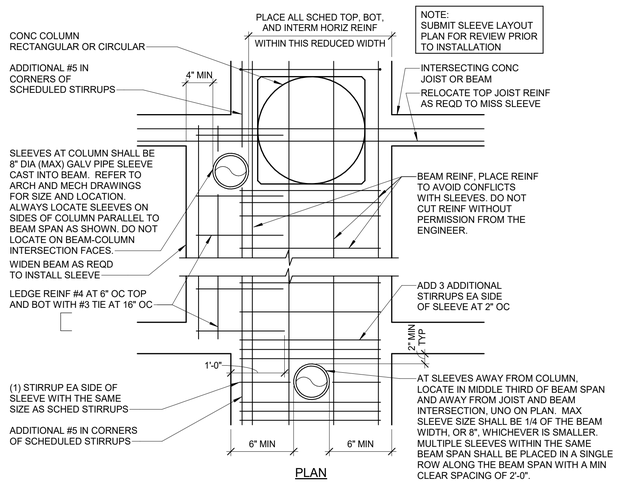
3. T CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
4. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
5. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.



SECTION

7 TYPICAL CONCRETE GRADE BEAM BAR PLACING DIAGRAM

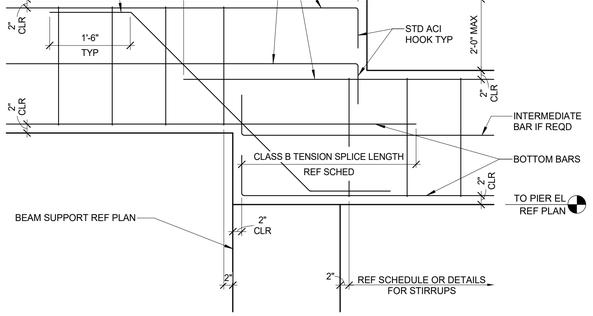
3/4" = 1'-0"



PLAN

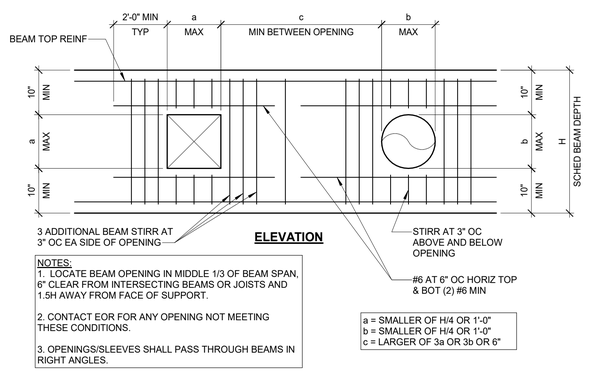
6 TYPICAL VERTICAL SLEEVES IN CONCRETE BEAMS

3/4" = 1'-0"



5 TYPICAL BEAM STEP

3/4" = 1'-0"



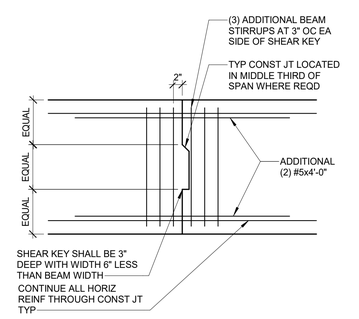
ELEVATION

NOTES:
1. LOCATE BEAM OPENING IN MIDDLE 1/3 OF BEAM SPAN, 6" CLEAR FROM INTERSECTING BEAMS OR JOISTS AND 1.5H AWAY FROM FACE OF SUPPORT.
2. CONTACT EOR FOR ANY OPENING NOT MEETING THESE CONDITIONS.
3. OPENINGS/SLEEVES SHALL PASS THROUGH BEAMS IN RIGHT ANGLES.

a = SMALLER OF H/4 OR 1'-0"
b = SMALLER OF H/4 OR 1'-0"
c = LARGER OF 3a OR 3b OR 6"

4 TYPICAL HORIZONTAL OPENING IN BEAM

3/4" = 1'-0"

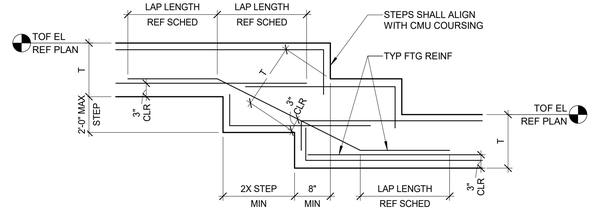


3 TYPICAL CORNER BAR REINFORCING

3/4" = 1'-0"

2 TYPICAL BEAM CONST JT

3/4" = 1'-0"



1 TYP FOOTING STEP

3/4" = 1'-0"

DRAWN BY: AGLUZMAN **CHECKED BY:** TCRYER

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO

Friday, August 02, 2019 2:07:17 PM

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

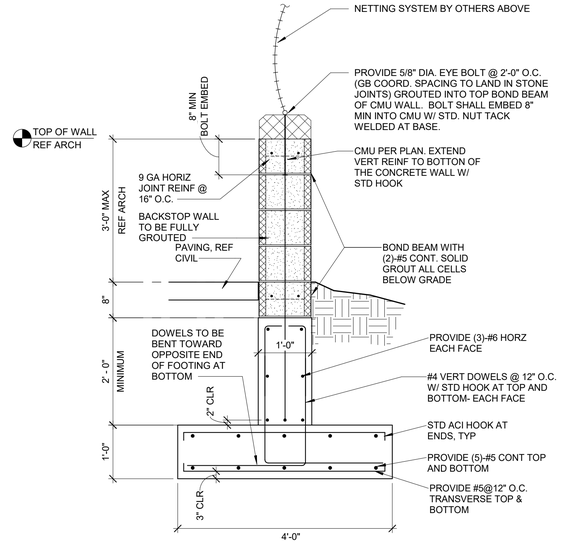
No.	Description	Date

ISSUED FOR PROPOSAL

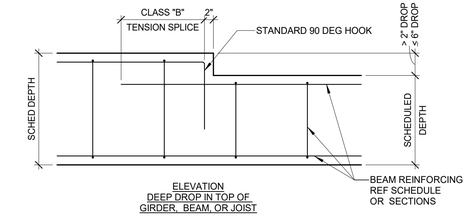
PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS

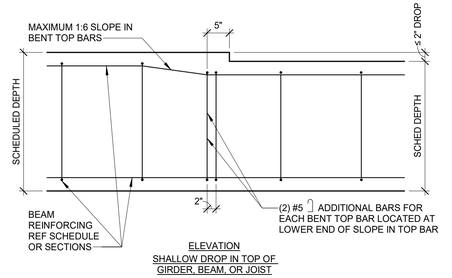
S 300

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
PH: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



9 BACKSTOP DETAIL
3/4" = 1'-0"





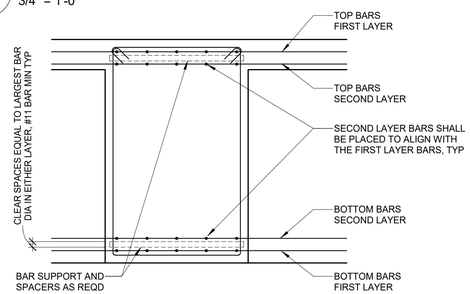
8 TYPICAL DETAIL OF REINFORCING AT SLAB/BEAM STEP
3/4" = 1'-0"

STEEL REINF CLASS B TENSION LAP SPLICE SCHEDULE L_{st}												
	3000 PSI CONC		4000 PSI CONC		5000 PSI CONC		6000 PSI CONC		7000 PSI CONC		8000 PSI CONC	
	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER
#6 AND SMALLER BARS	74db	57db	64db	50db	58db	44db	53db	41db	49db	38db	46db	35db
#7 TO #11 BARS	93db	71db	81db	62db	72db	55db	66db	51db	61db	47db	57db	44db

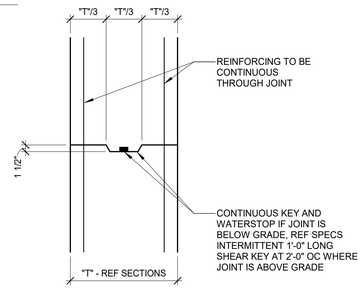
NOTES:

1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON EPOXY COATED REINFORCING.
2. TYPICAL IS FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 13".
3. FOR EPOXY COATED TYPICAL BARS, INCREASE SPLICE LENGTHS BY 31%. FOR EPOXY COATED OTHER BARS, INCREASE SPLICE LENGTHS BY 50%.
4. FOR LIGHTWEIGHT CONCRETE, INCREASE SPLICE LENGTHS BY 33%.
5. FOR GRADE 75 REBARS, INCREASE SPLICE LENGTHS BY 25%.
6. FOR #7 T0 #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, INCREASE SPLICE LENGTHS BY 50%.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFACTION FACTORS SHALL NOT BE LESS THAN 12".

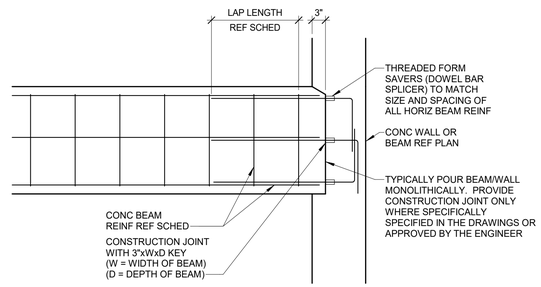
7 TYPICAL STEEL REINF CLASS B TENSION LAP SCHEDULE
3/4" = 1'-0"



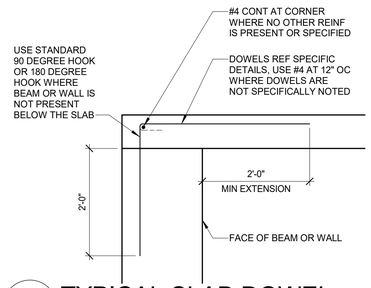
4 TYPICAL DETAIL OF MULTIPLE LAYERS OF BEAM REINFORCING
3/4" = 1'-0"



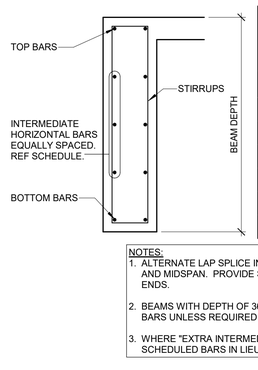
3 TYPICAL HORIZONTAL CONSTRUCTION JOINT IN WALL OR BEAM
3/4" = 1'-0"



2 CONCRETE BEAM CONNECTION TO WALL OR BEAM
3/4" = 1'-0"



1 TYPICAL SLAB DOWEL
3/4" = 1'-0"

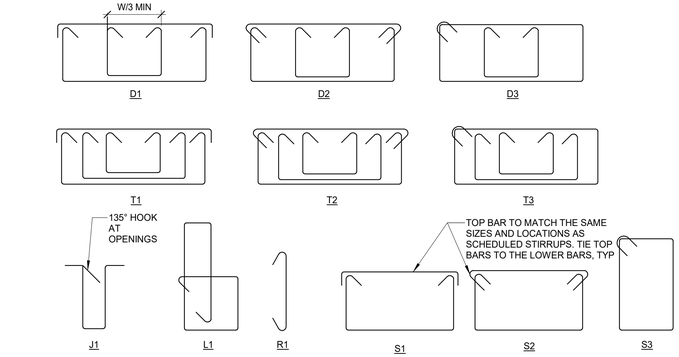


INTERMEDIATE BAR SCHEDULE		
BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

NOTES:

1. ALTERNATE LAP SPLICE INTERMEDIATE BARS BETWEEN SUPPORT AND MIDSPAN. PROVIDE STANDARD ACI HOOK AT DISCONTINUOUS ENDS.
2. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE.
3. WHERE "EXTRA INTERMEDIATE BARS" ARE SCHEDULED, PROVIDE SCHEDULED BARS IN LIEU OF THOSE REQUIRED BY THIS DETAIL.

5 TYPICAL INTERMEDIATE BAR SCHEDULE
3/4" = 1'-0"



6 STIRRUP TYPES AT GRADE BEAMS
3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

TYPICAL FOUNDATION DETAILS

S 301

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU	
BAR SIZE	LAP SPLICE LENGTH (INCHES)
3	19
4	34
5	45
6	54
7	63
8	72
9	82

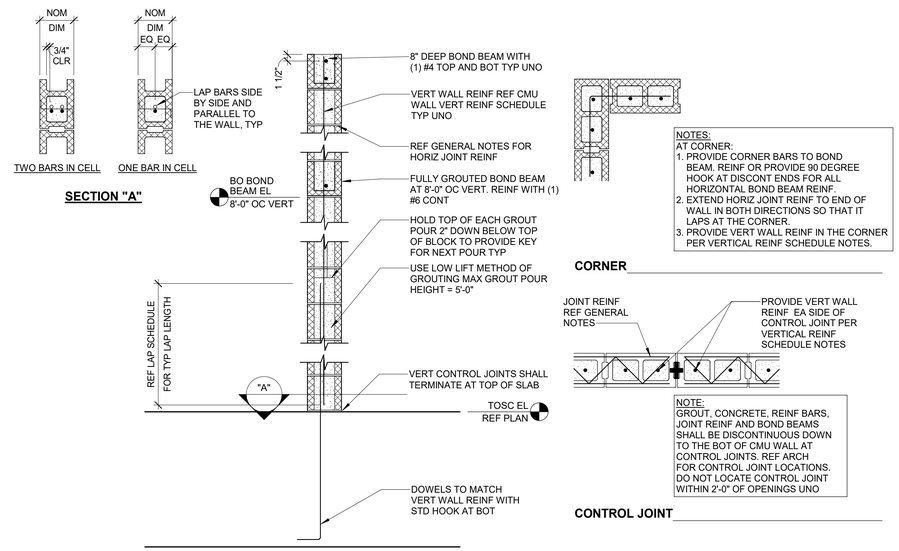
NOTES:
1. FOR GRADE 60 NON-EPOXY COATED REINFORCING.
2. FOR EPOXY COATED REINFORCING, INCREASE TABULATED LENGTHS BY 50%.

3 TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU
12" = 1'-0"

STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE		
WALL DESIGNATION	MAX UNBRACED WALL HEIGHT	EXTERIOR WALL VERTICAL REINF
12" CMU	3'-0"	#6 AT 16" OC

1. THIS SCHEDULE ONLY APPLIES TO CMU WALLS SHOWN AND DESIGNATED ON THE STRUCTURAL FRAMING PLANS. CMU WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS ARE NOT PART OF THE STRUCTURAL FRAME AND ARE CONSIDERED NON-STRUCTURAL CMU.
2. REFER TO THE "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" ON THIS SHEET FOR MINIMUM REQUIRED REINFORCING AT ARCHITECTURAL (NON STRUCTURAL) CMU WALLS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS. REFER TO "TYPICAL WALL REINFORCING DIAGRAM" FOR ADDITIONAL INFORMATION.
4. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEEN INSTALLED AND CONNECTED TO THE STEEL FRAMING.
5. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
6. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
7. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
8. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
9. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

1A TYPICAL STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE
3/4" = 1'-0"



1 TYPICAL CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA NORTH ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

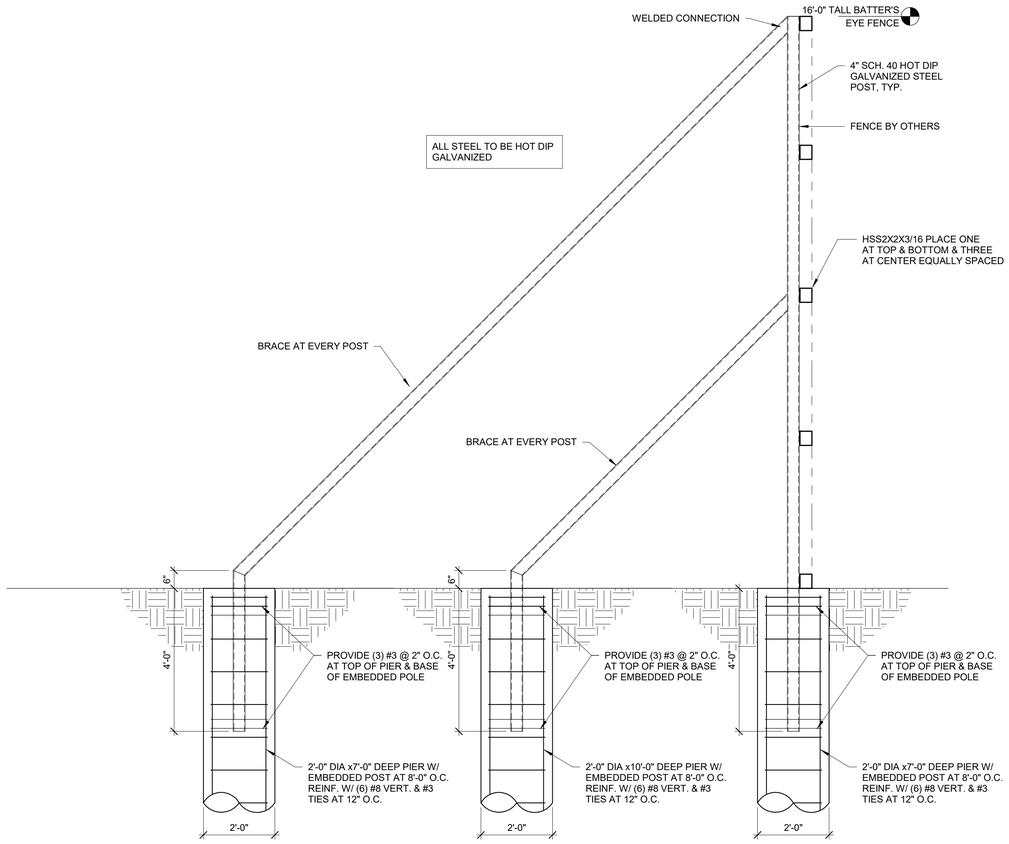
ISSUED FOR PROPOSAL

TYPICAL CMU DETAILS AND SCHEDULES

S 400

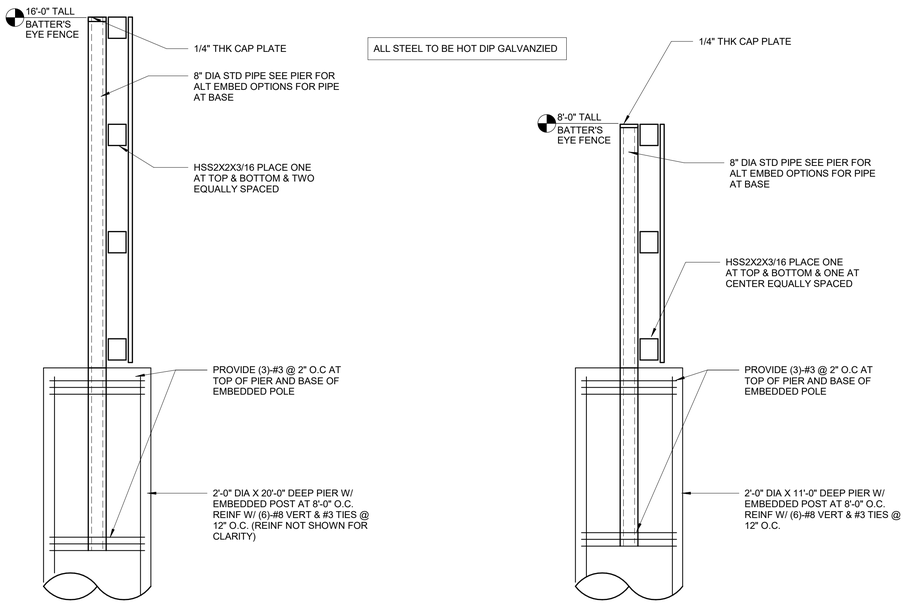
Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\North High School\CS-NORTH TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:07:17 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



4 16FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"

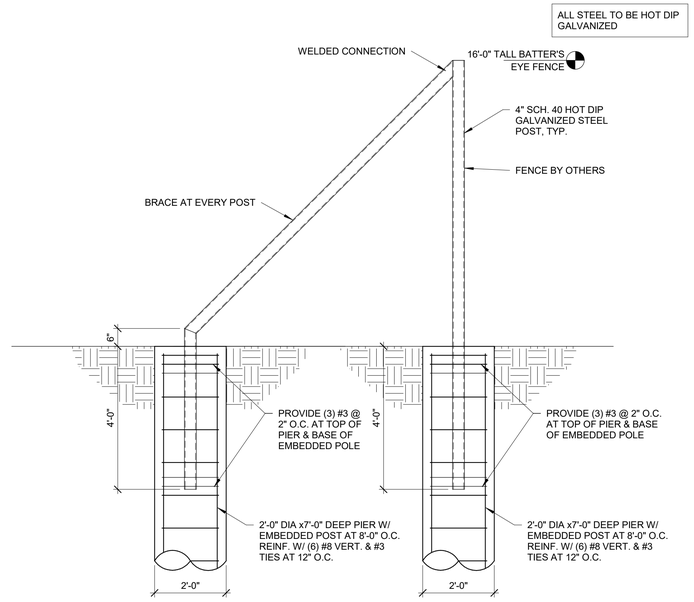


16 FEET TALL FENCE DETAIL

8 FEET TALL FENCE DETAIL

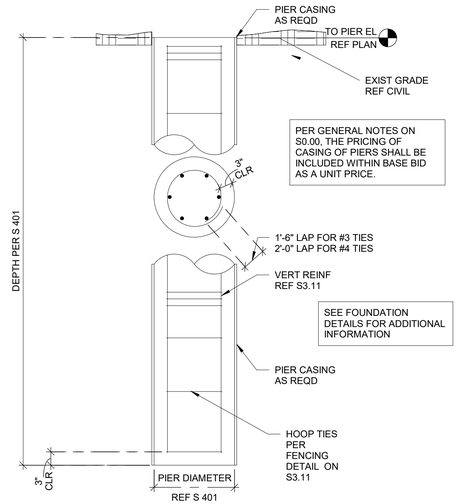
2 TYPICAL FENCING ELEVATION

3/4" = 1'-0"



3 8FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"



1 FENCING STRAIGHT SHAFT DETAIL

3/4" = 1'-0"

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

PBK Sports

PHARR-SAN JUAN-ALAMO ISD SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS PSJA NORTH ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA North Raiders

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

FOUNDATION DETAILS AND ELEVATIONS

S 401

PHARR-SAN JUAN-ALAMO ISD

PSJA MEMORIAL ECHS

SOFTBALL AND BASEBALL FIELD UPGRADES

August 7, 2019

BOARD OF TRUSTEES

PRESIDENT	VICE PRESIDENT	SECRETARY-TREASURER	ASSISTANT SECRETARY-TRESURER	MEMBER	MEMBER	MEMBER	SUPERINTENDENT
JESUS "JESSE" ZAMBRANO	JORGE "GEORGE" PALACIOS	JORGE ZAMBRANO	RICARDO "RICK" PEDRAZA	VICTOR PEREZ	JESUS "JESSE" VELA, JR.	CARLOS G. VILLEGAS, JR	DANIEL P. KING, PhD

OWNER / PROJ. MAN.

PSJA ISD ADMINISTRATION BUILDING
CONTACT:
601 E. KELLY
PHARR, TEXAS 78577
936-354-2000 P

ENGINEER

PBK ENGINEERS
CONTACT: TREY SCHNEIDER
11 GREENWAY PLAZA
22ND FLOOR
HOUSTON, TX 77046
713-965-0608 P
713-961-4571 F

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES
800 S. ALAMO ROAD
ALAMO, TX 78516
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

CA 000

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 000 COVER SHEET.dwg Last Saved: AGLUZMAN
Wednesday, August 07, 2019 8:43:21 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA MEMORIAL HIGH SCHOOL\CA 001 INDEX, NOTES AND LEGENDS.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:52:34 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE JOBSITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
6. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
7. TOPOGRAPHIC SURVEY BY: RIO DELTA SURVEYING
   TBPLS FIRM # 10013900
   24593 FM 88
   MONTE ALTO, TX 78538
   P: 956-262-0222 P: 956-380-5154
8. BENCHMARK: SEE SURVEY
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT, HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO INSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT HIS EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED. (800) 344-8377.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR SHALL COORDINATE THE RELOCATION AND PAY ANY FEES.
20. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS.
21. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
22. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
23. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

UTILITY NOTES

24. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
25. HE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
26. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
27. BEDDING AND BACKFILL SHALL BE SUBSIDIARY TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL WATER AND SEWER MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIALS AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE CONTRACTOR SHALL REPLACE THE DEFECTIVE MATERIAL WITH SOUND MATERIAL AT HIS OWN EXPENSE.
29. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
30. ALL STORM SEWER TO BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR / SMOOTH INTERIOR PIPE WITH WATER TIGHT JOINTS PER ASTM D 3212 UNLESS OTHERWISE OR SPECIFICALLY NOTED.
31. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS / SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE.
32. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" (SIX INCHES) VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND AT STORM SEWER AND SANITARY SEWER CROSSINGS, AND A MINIMUM OF 12" (TWELVE INCHES) VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
33. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
34. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED AT HIS EXPENSE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND/OR AS DIRECTED BY THE ENGINEER.

UTILITY NOTES

36. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
37. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
38. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
39. THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL AN INCIDENTAL AMOUNT FOR THE SAW CUTTING, REMOVAL AND REPLACEMENT OF PAVEMENT AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING PAVEMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT TYPE, THICKNESS AND GRADES.
40. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND WORK UPSTREAM. THE CONTRACTOR SHALL ALSO VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. PIPE SHALL BE INSTALLED WITH THE BELLS AT THE UPSTREAM END.
41. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL (800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
42. CAUTION: UNDERGROUND GAS FACILITIES
    GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 OR (800) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED
    * WHEN GAS LINE MARKINGS ARE NOT VISIBLE CALL (713) 967-8037 (7:00 AM-4:30 PM)
    FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
    * WHEN EXCAVATING WITHIN 18" OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
    * WHEN GAS FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

    THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
43. WARNING: OVERHEAD ELECTRICAL FACILITIES
    OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN 6' OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY 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 REMOVED CALL POWER COMPANY AT (713) 207-2222 (CENTERPOINT).

    WARNING: UNDERGROUND ELECTRICAL FACILITIES
    UNDERGROUND ELECTRICAL FACILITIES MAY EXIST ON THE PROPERTY. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL THE UCC AT 811, OR TOLL FREE AT (800) 669-8344, TO VERIFY THAT NO UNDERGROUND FACILITIES EXIST.
44. ALL UNDERGROUND PIPE SHALL HAVE A 12 GAUGE METALLIC TRACER WIRE RUNNING THE FULL LENGTH OF THE PIPE. TRACER WIRE SHALL BE TAPED TO THE PIPE AT INTERVALS NOT TO EXCEED 15 FEET USING DUCT TAPE.

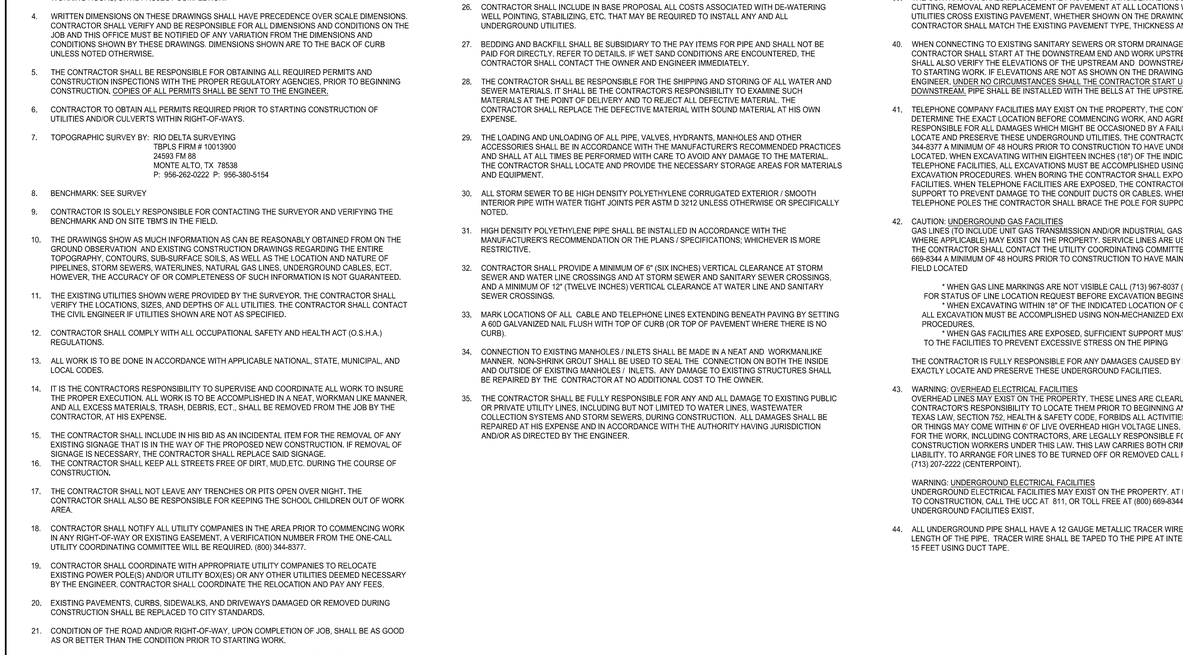
PAVING AND GRADING NOTES

45. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
46. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
47. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
48. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
50. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
51. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
52. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED, REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
53. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, INSTALL 3/4" SMOOTH DOWELS, (18" LONG AND 18" C-C), BY DRILLING 8" INTO THE CENTER OF THE EXISTING SLAB AND EMBEDDING WITH EPOXY. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
54. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
55. SECURE PRECAST CONCRETE WHEEL STOPS BY DRILLING AND SETTING #4 DOWELS INTO PAVEMENT.
56. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
57. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL NEW CURBS, DRIVES, MOW STRIPS AND /OR WALKS.
58. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
59. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.

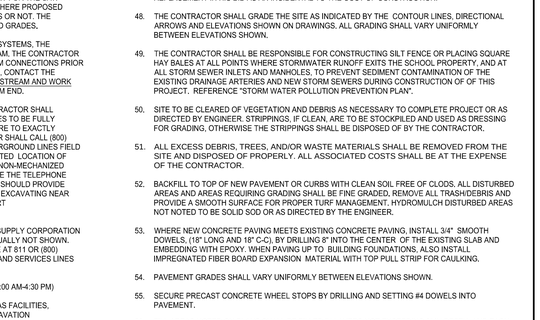
CIVIL LEGEND

201	PROPOSED CONTOUR
	PROPOSED CATCH BASIN (C-1)
	PROPOSED "A" INLET (A-1)
	PROPOSED "E" INLET (E-1)
	PROPOSED STORM MANHOLE W/ GRATE TOP
	PROPOSED MANHOLE
	PROPOSED H-2 OR JUNCTION BOX INLET
	GATE VALVE & BOX
	PIPE SLEEVES
	PROP. 45° EL
	TAPPING SLEEVE & VALVE
TC	TOP OF CURB ELEVATION
TP	TOP OF PAVEMENT ELEVATION
TG	TOP OF GRATE ELEVATION
TR	TOP OF RIM (MANHOLE)
FG	FINISH GRADE ELEVATION
FL	FLOWLINE ELEVATION
TFL	THROAT FLOWLINE ELEVATION ("E" INLET)
FH	FIRE HYDRANT
MH	MANHOLE
CO	CLEAN OUT
DCO	DOUBLE CLEAN OUT
DS	DOWNSPOUT COLLECTOR
NIC	NOT IN CONTRACT
RD	ROOF DRAIN COLLECTOR
GV	GATE VALVE
STM	STORM SEWER
SAN	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
FFF	FILTER FABRIC FENCE
RFB	REINFORCED FABRIC BARRIER
IPB	INLET PROTECTION BARRIER
X	EXPANSION JOINT
L	LONGITUDINAL CONSTRUCTION JOINT
LT	LONGITUDINAL-TIED CONSTRUCTION JOINT
T	TRANSVERSE CONTRACTION JOINT
S	SAWED PAVEMENT JOINT
UE	UTILITY EASEMENT
SSE	SANITARY SEWER EASEMENT
EP	EDGE OF PAVEMENT
HB	HIGH BANK OF DITCH
CL	CENTERLINE OF DITCH
PP	POWER POLE
GW	GUY WIRE
GM	GAS METER
PB	PHONE BOX
FC	FENCE CORNER
CB	CABLE BOX
NG	NATURAL GROUND
	EXISTING ELEVATION
TP XX.XX	PROPOSED ELEVATION

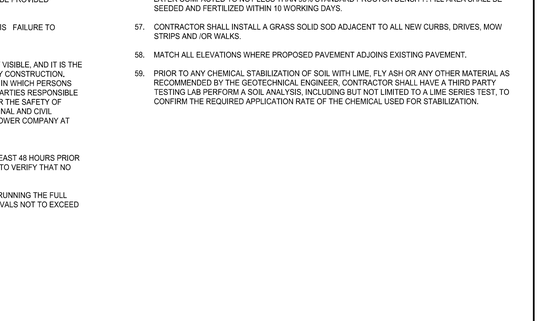
GENERAL NOTES



SITE PLAN



LOCATION MAP



VICINITY MAP

PROJECT NAME:
PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL
SYNTHETIC TURF BASEBALL INFIELD AND
SOFTBALL FIELD

LEGAL DESCRIPTION:
P.S.J.A. I.S.D - ALAMO HIGH SCHOOL BNG
ABST P000200

PHYSICAL ADDRESS:
800 S. ALAMO RD
ALAMO, TX 78516

PERMITTING INFORMATION

INDEX OF DRAWINGS

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	BASEBALL SURVEY (FOR INFORMATION ONLY)
CA 003	EROSION CONTROL PLAN
CA100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBALL DETAILS
CA 107	BASEBAL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 101	MEMORIAL HS BASEBALL SITE PLAN
S 201	MEMORIAL HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

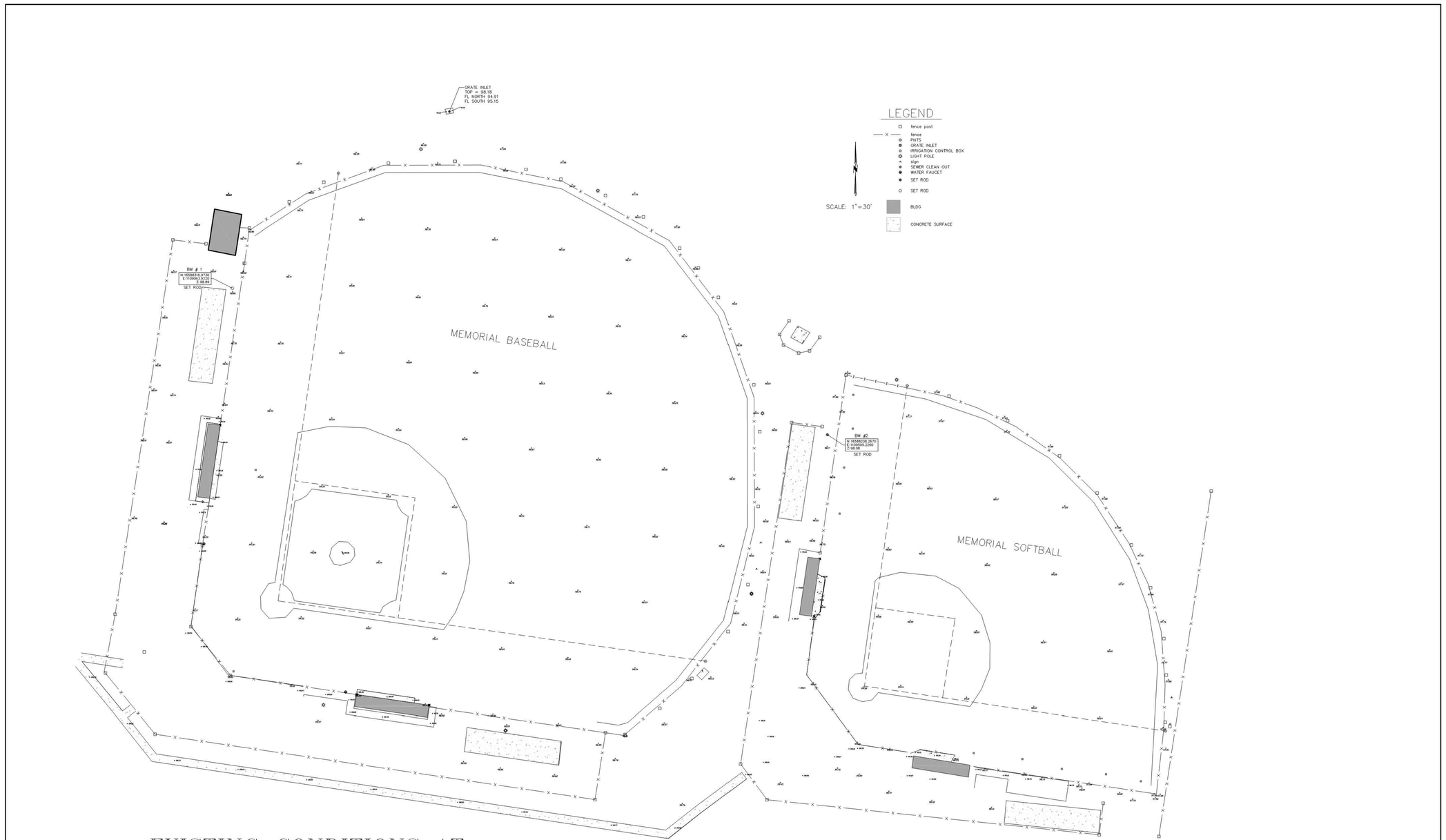
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

INDEX, NOTES AND LEGEND

CA 001



EXISTING CONDITIONS AT PSJA–MEMORIAL HIGH SCHOOL BASEBALL & SOFTBALL FIELDS

STATE OF TEXAS
REGISTERED
JOSE MARIO GONZALEZ
5571
PROFESSIONAL
LAND SURVEYOR

06-28-2019

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

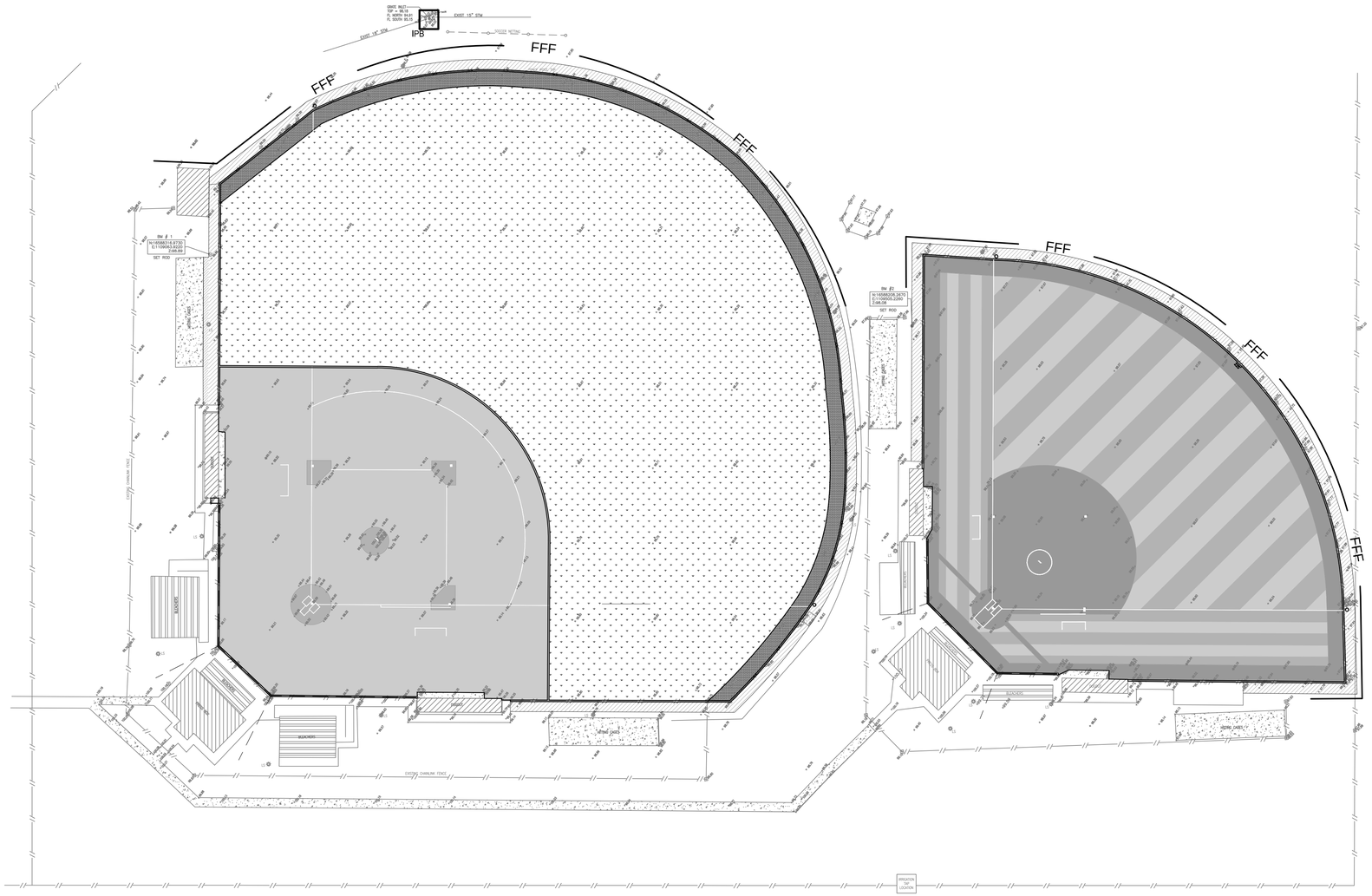
ISSUE FOR PROPOSALS

SURVEY (FOR INFORMATION ONLY)

CA 002

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 002 SURVEY (FOR INFORMATION ONLY).dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 1:54:02 PM



NORTH

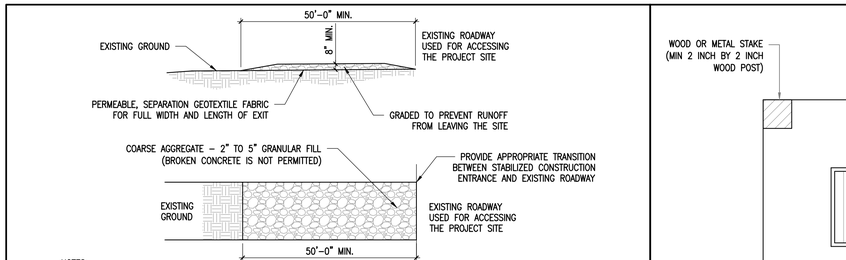
20 40

40 0 80

LEGEND

IPB — INLET PROTECTION BARRIER

FFF — FILTER FABRIC FENCE



NOTES:

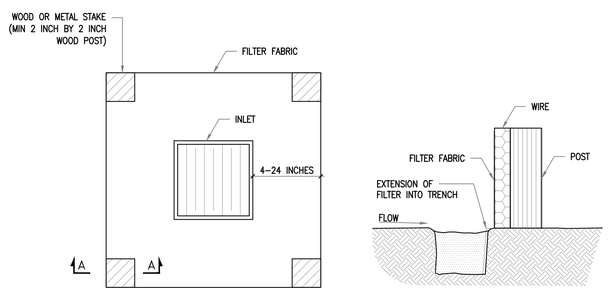
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:

   CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.

   WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.

   STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

3 STABILIZED CONSTRUCTION ENTRANCE

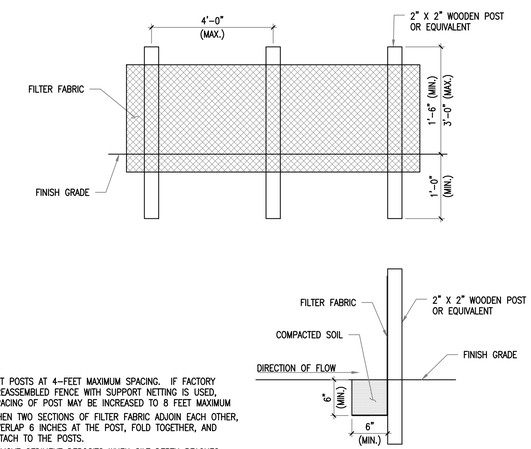


PLAN SECTION A–A

CONSTRUCTION NOTES

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

2 SILT FENCE INLET PROTECTION BARRIER (IPB)



NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

1 FILTER FABRIC FENCE (FFF)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/19

REVISIONS

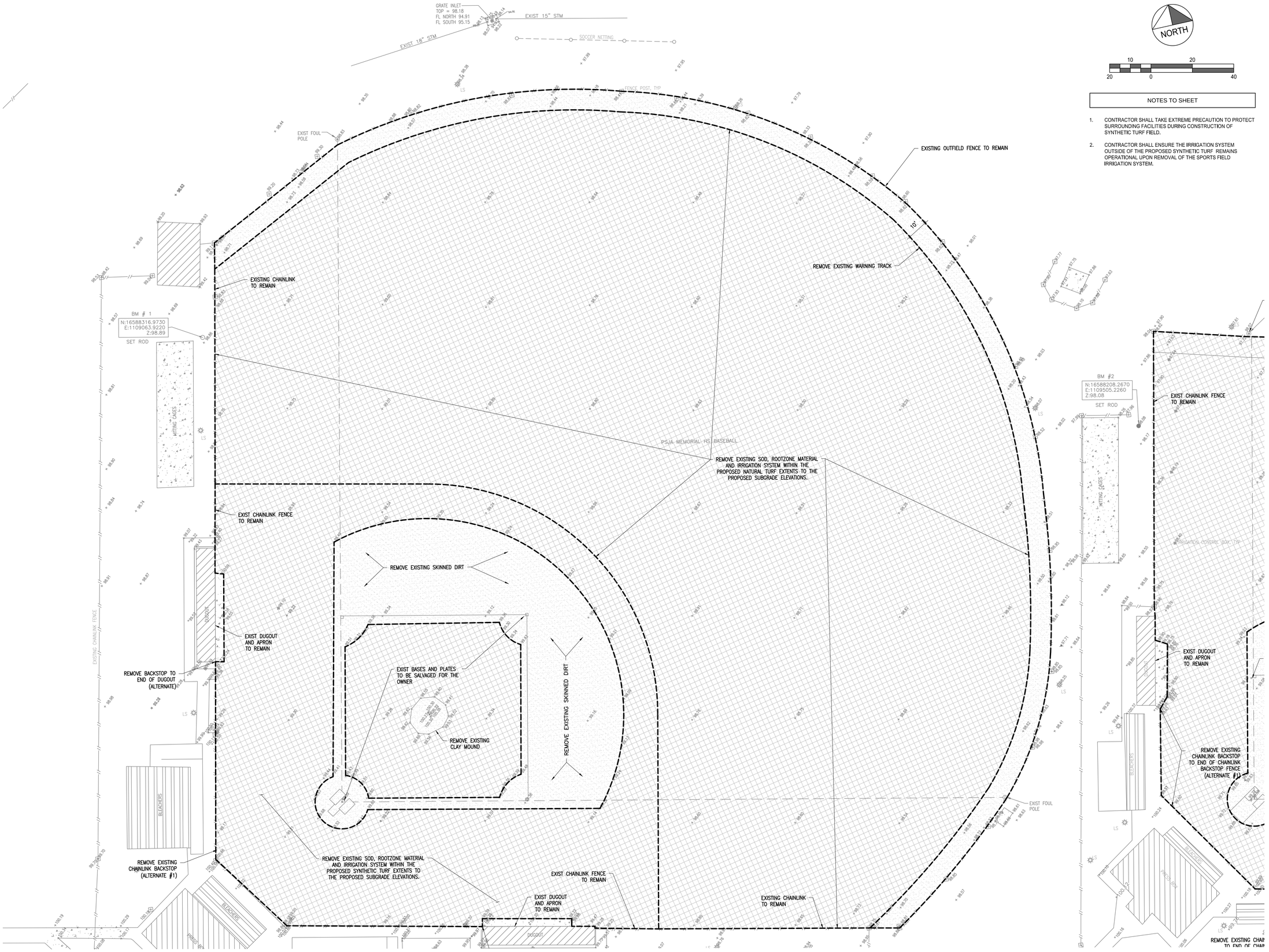
No.	Description	Date

ISSUE FOR PROPOSALS

EROSION CONTROL PLAN

CA 003

b:_sports group_project files_project files - rgv\19141SP\div6-dwgs\8a bim cad\03 sports\psja memorial high school\CA 003 EROSION CONTROL PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 5:22:36 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF THE PROPOSED SYNTHETIC TURF REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

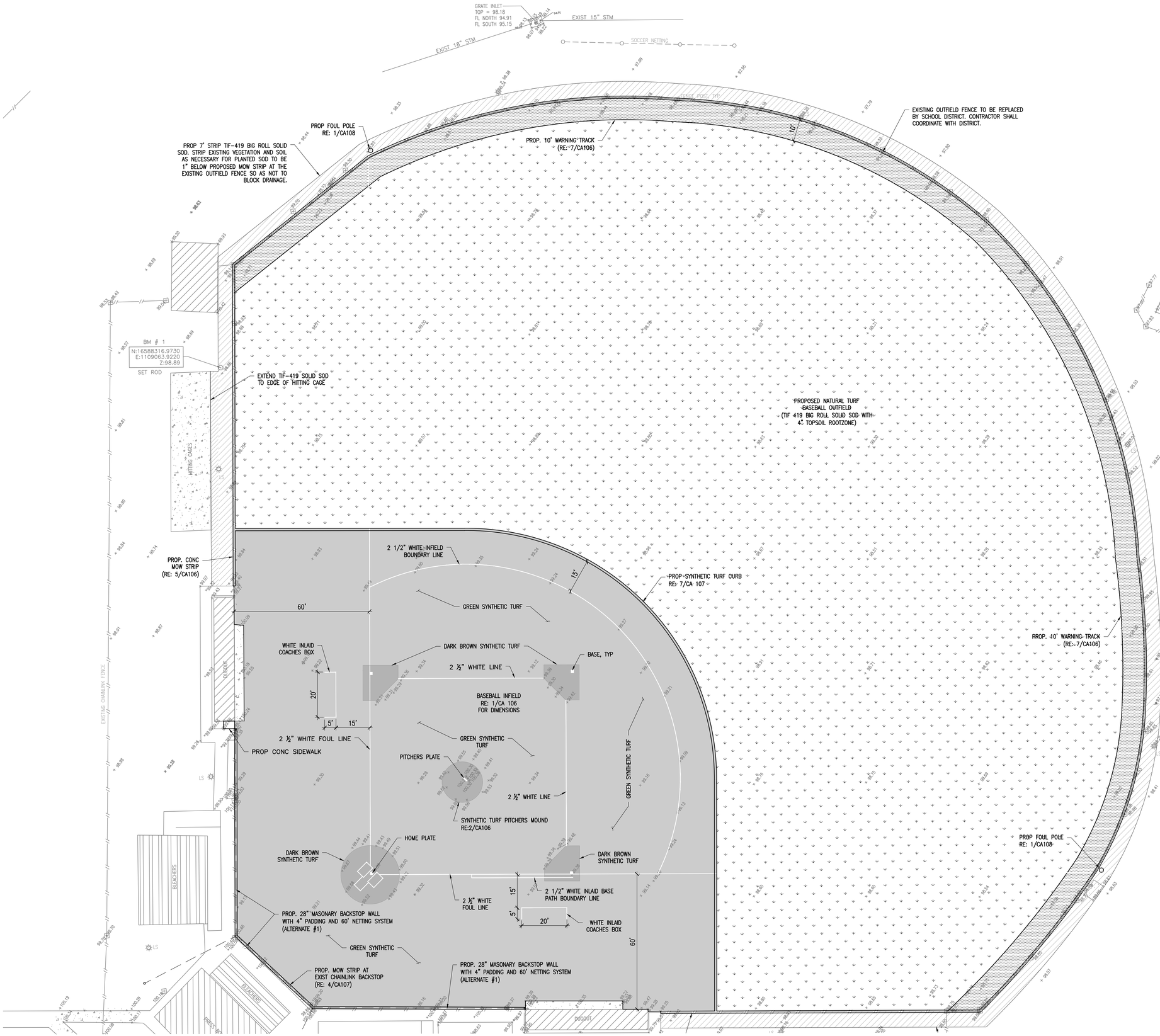
ISSUE FOR PROPOSALS

BASEBALL DEMOLITION PLAN

CA 100

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 100 BASEBALL DEMOLITION PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 3:24:23 PM



NOTES TO SHEET

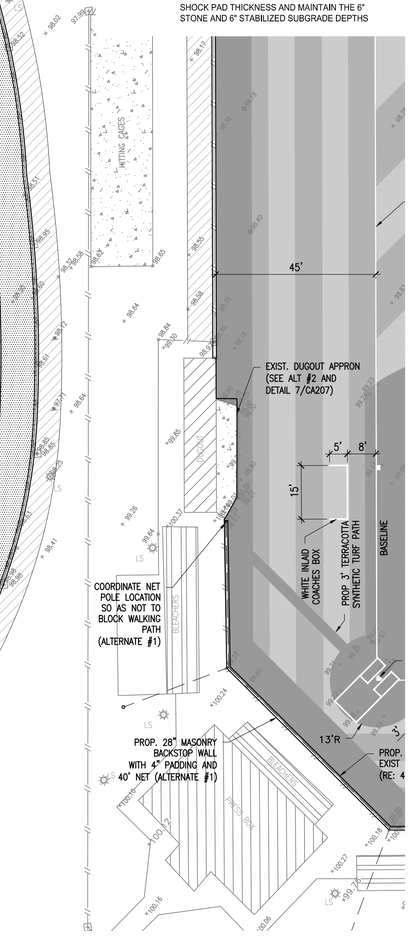
1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING.
7. COORDINATE POSITION OF BACKSTOP NETTING POLES SO AS NOT TO BLOCK ANY WALKING PATH OF CONFLICT WITH ANY UTILITY.

ALTERNATES

ALTERNATE #1: PROVIDE 28' MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS



PRO Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

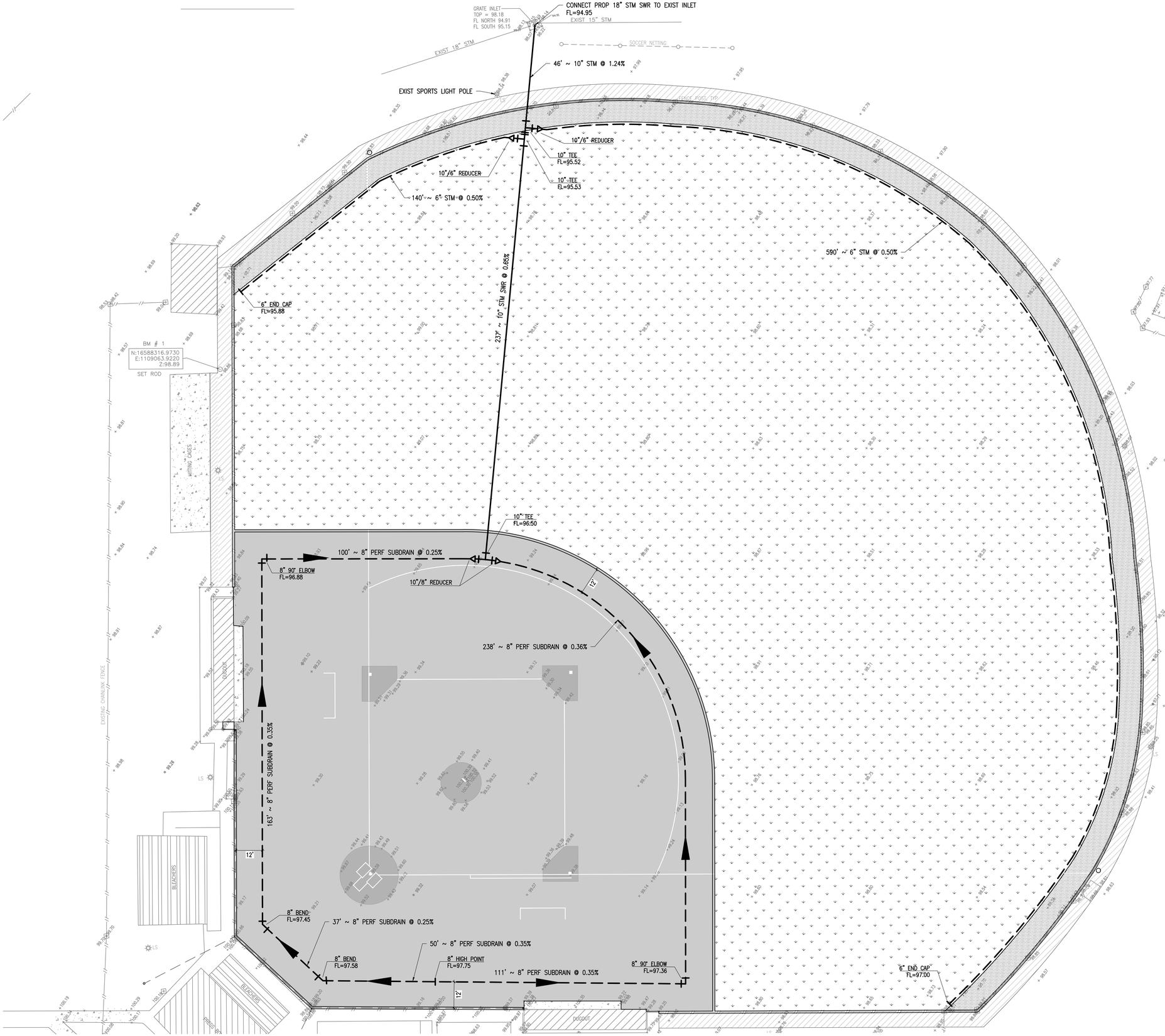
ISSUE FOR PROPOSALS

BASEBALL
SITE PLAN

CA 101

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\dv8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 101 BASEBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 7:09:10 PM



NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE, REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.
5. CONTRACTOR SHALL PROVIDE A SECOND SET OF CAST IRON GRATES WITH THE TURF SYSTEM GLUED TO GRATE TO BE INSERTED ONTO INLETS / MANHOLES DURING GAMES.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

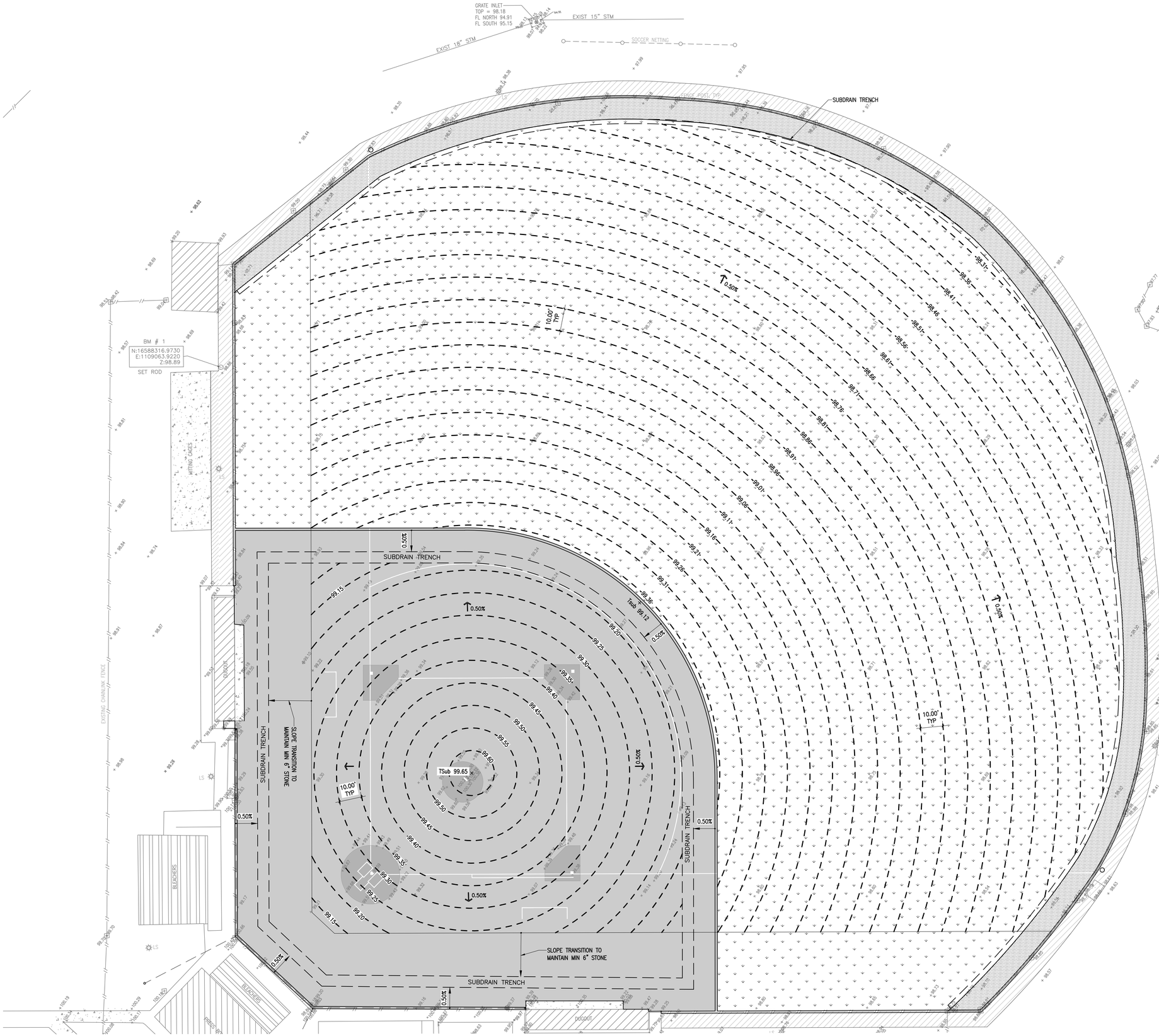
ISSUE FOR PROPOSALS

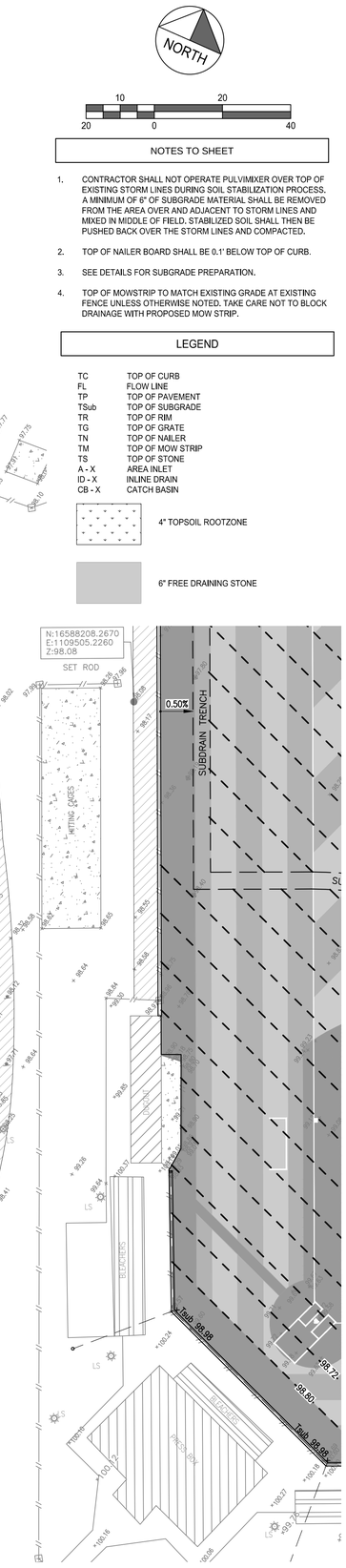
BASEBALL
DRAINAGE PLAN

CA 102

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

Last Saved: AGLUZMAN
b:_sports group_project files_project files - rgv\19141SP\div8-dwg\8a bim cad\03 sports\psja memorial high school\CA 102 BASEBALL DRAINAGE PLAN.dwg
Tuesday, August 06, 2019 8:08:48 PM





NORTH

10 0 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

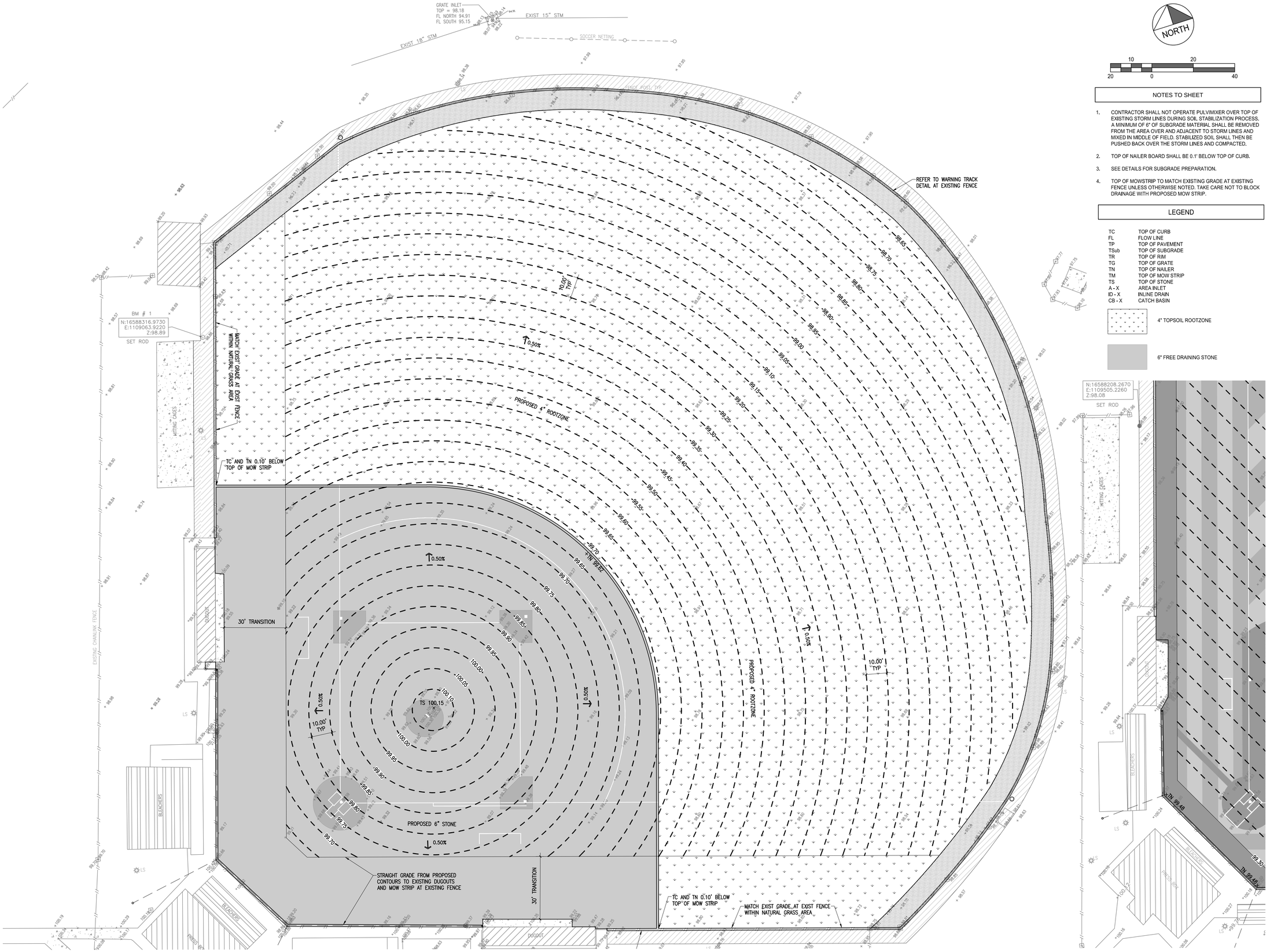
ISSUE FOR PROPOSALS

BASEBALL SUBGRADE GRADING PLAN

CA 103

b:_sports group_project files_project files - rgv\19141SP\dv8-dwgs\8a bim cad\103 sports\psja memorial high school\CA 103 BASEBALL SUBGRADE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 1:15:16 PM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 0 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

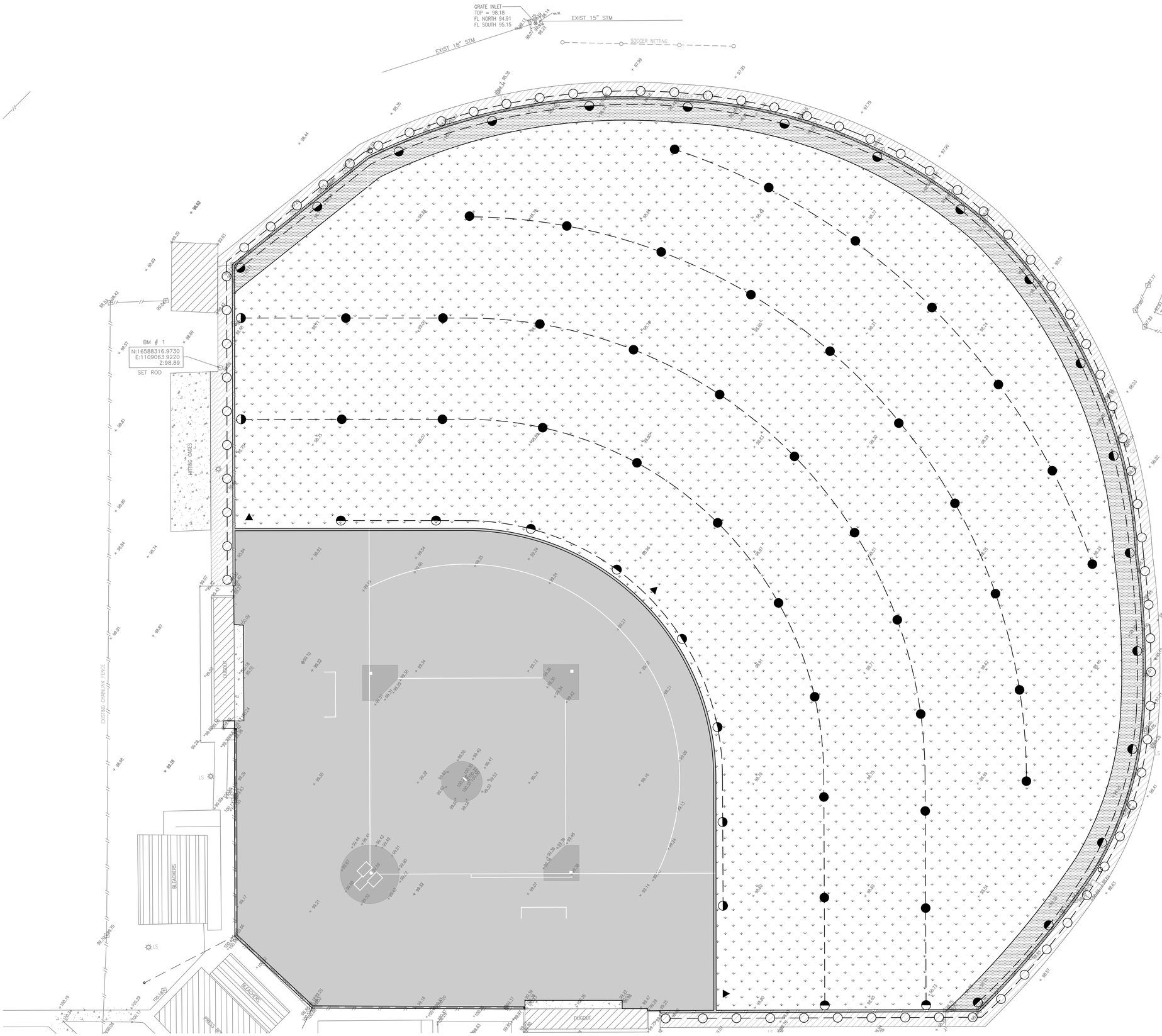
ISSUE FOR PROPOSALS

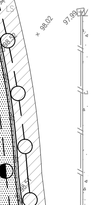
BASEBALL FINISH GRADING PLAN

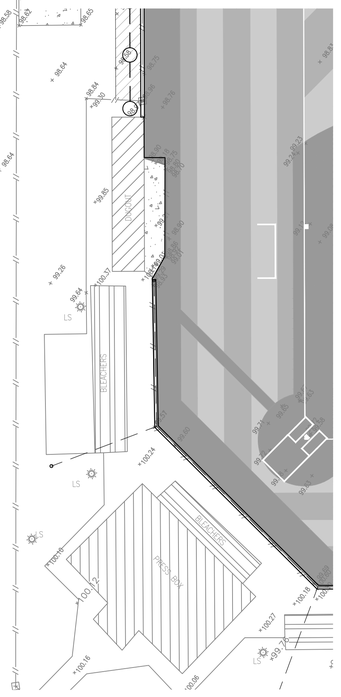
CA 104

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

b:_sports group_project files_project files - rgv\19141SP\div8-dwg\8a bim cad\03 sports\psja memorial high school\CA 104 BASEBALL FINISH GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 1:15:03 PM







NORTH

10 20
20 0 40

NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD, IF PRESSURE CAN NOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/19

REVISIONS

No.	Description	Date

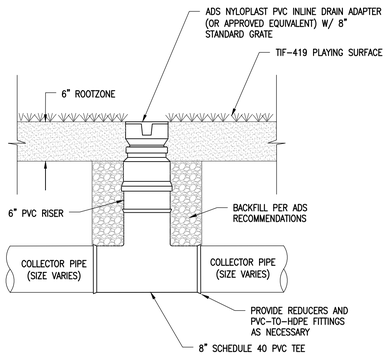
ISSUE FOR PROPOSALS

BASEBALL
IRRIGATION PLAN

CA 105

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

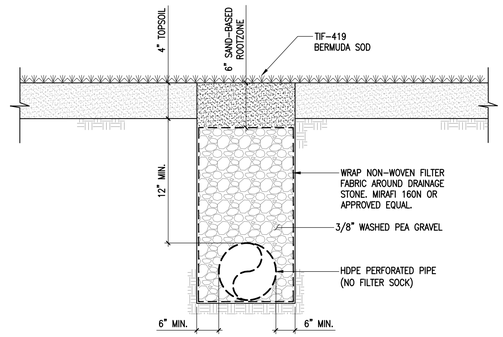
b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 105 BASEBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 5:48:31 PM



NOTES:
1. PROVIDE EXTRA GRATE WITH KNITTED NYLON SYNTHETIC TURF WITH 5MM PAD GLUED TO THE TOP.

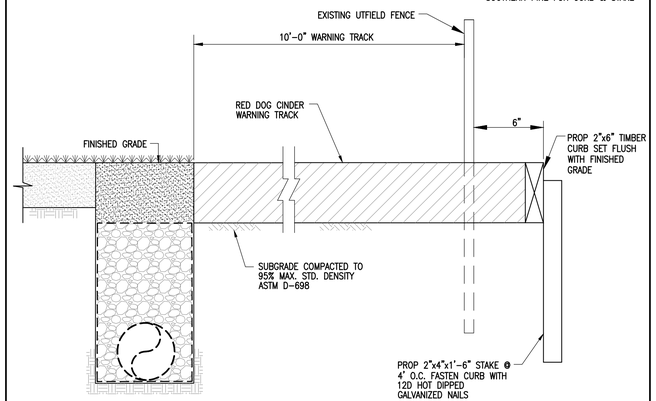
9 | INLINE DRAIN (ID)

NOTE:
SAND-BASED ROOTZONE SHALL BE 90% SAND + 10% CLAY/SILT.



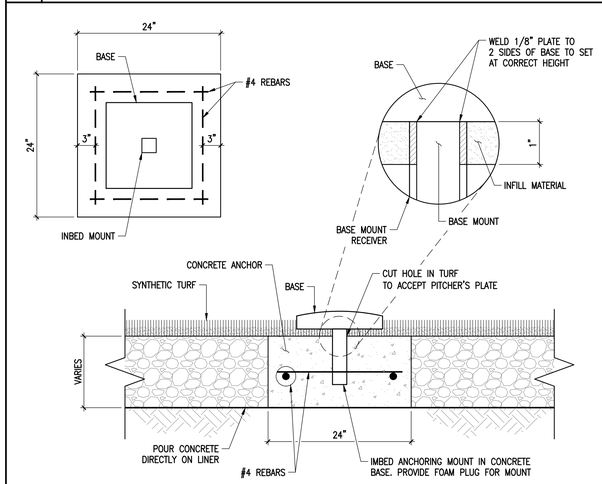
8 | NATURAL TURF FIELD SUBDRAIN

NOTE:
USE GRADE 2 WOLMANIZED SOUTHERN PINE FOR CURB & STAKE

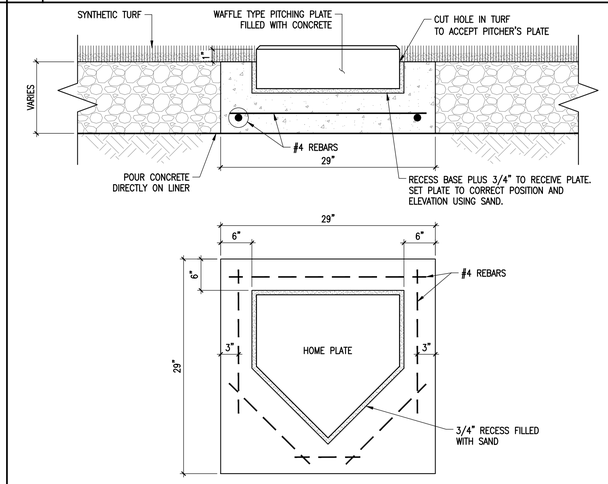


7 | WARNING TRACK

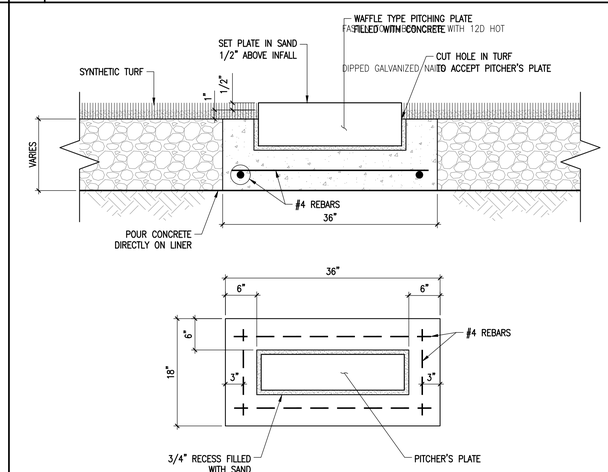
PROP. 2" x 4" x 1'-6" STAKE @ 4' O.C.



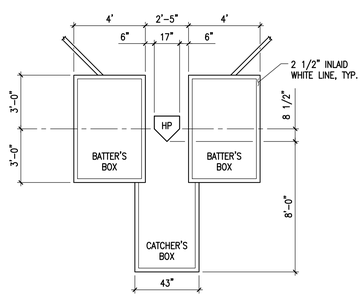
6 | BASE PLATE MOUNT



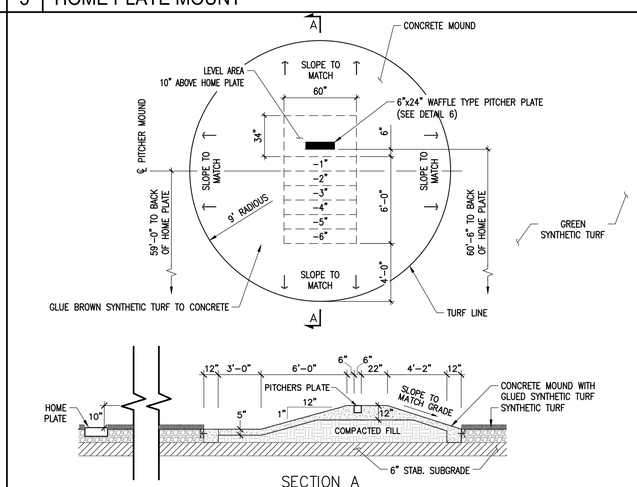
5 | HOME PLATE MOUNT



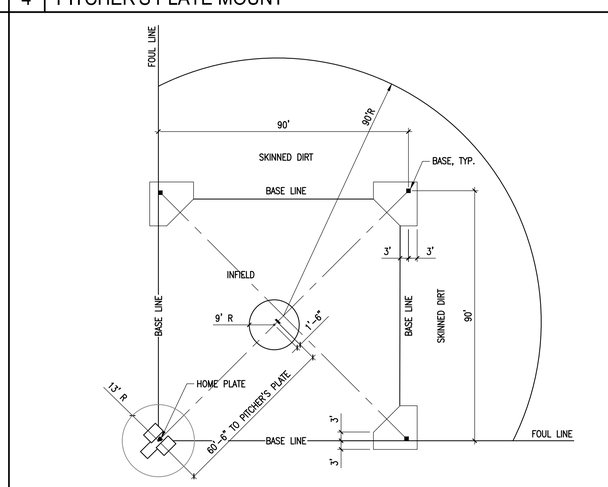
4 | PITCHER'S PLATE MOUNT



3 | BASEBALL BATTER'S BOX



2 | BASEBALL SYNTHETIC TURF PITCHER MOUND (ALTERNATE)



1 | BASEBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL DETAILS

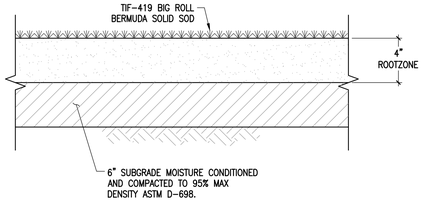
CA 106

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

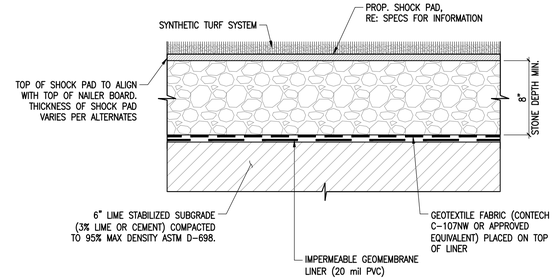
b:_sports group_project files_project files - rgv\19141SP\dlv6-dwgs\8a bim cad\03 sports\psja memorial high school\CA 106 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 9:20:15 PM

NOTE:

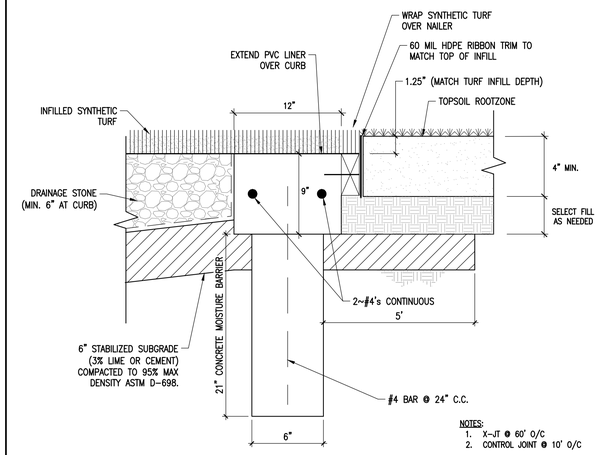
1. ROOTZONE TO BE TOPSOIL MIX WITH 10% COMPOST BLENDED IN.
2. 4" ROOTZONE DEPTH INCLUDES APPROX. 3/4" SOD ROOTZONE MATERIAL.



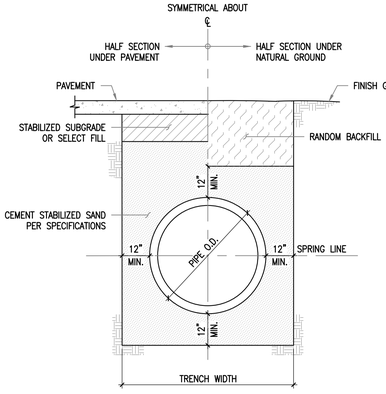
9 NATURAL TURF SECTION



8 ALTERNATE SYNTHETIC TURF SECTION WITH SHOCK PAD (ALT. #3)



7 12" CONCRETE TURF CURB



NOTES:

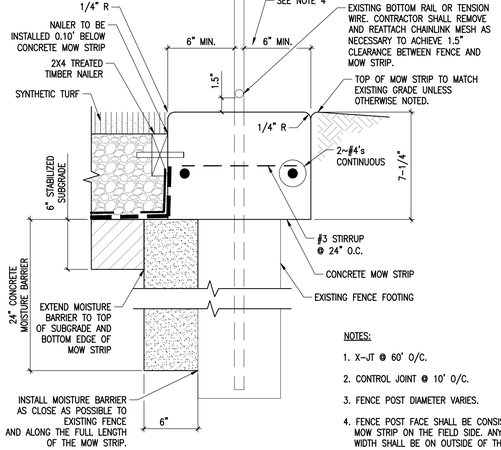
1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT #3)

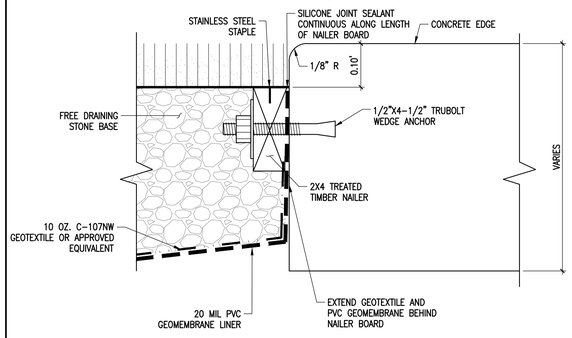
NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

5 STORM SEWER BEDDING AND BACKFILL



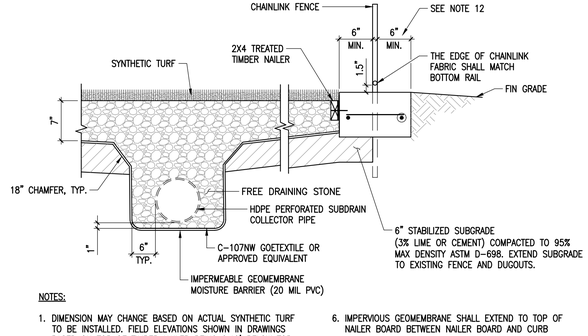
4 SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

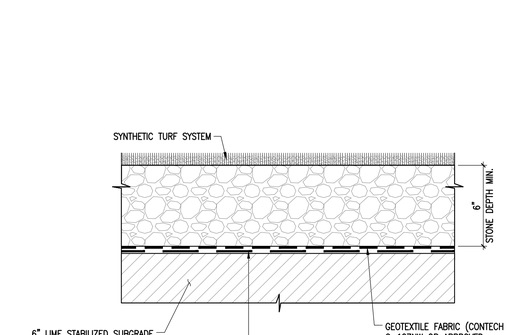
3 NAILER BOARD SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 0.10" BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 6" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. FENCE POST DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

2 BASEBALL SYNTHETIC TURF SYSTEM EDGE SECTION



1 SYNTHETIC TURF SECTION

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL
DETAILS

CA 107

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\dv8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 107 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 9:21:34 PM

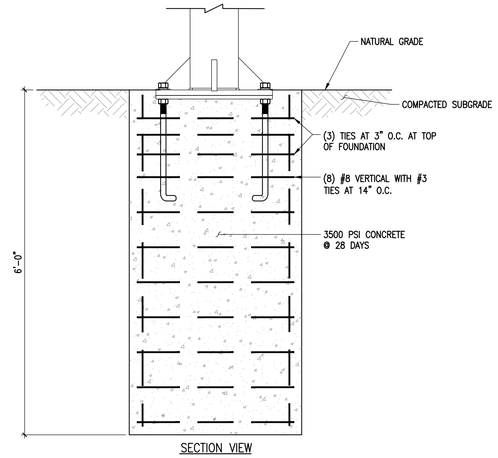
b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 108 BASEBALL DETAILS.dwg Last Saved: IGARCIA
Wednesday, August 07, 2019 9:36:18 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

6 | NOT USED

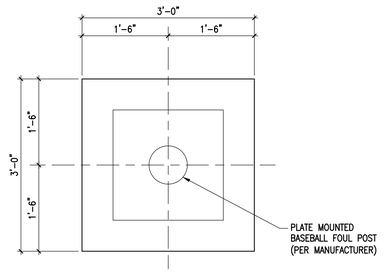
5 | NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POST MANUFACTURER. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.



SECTION VIEW

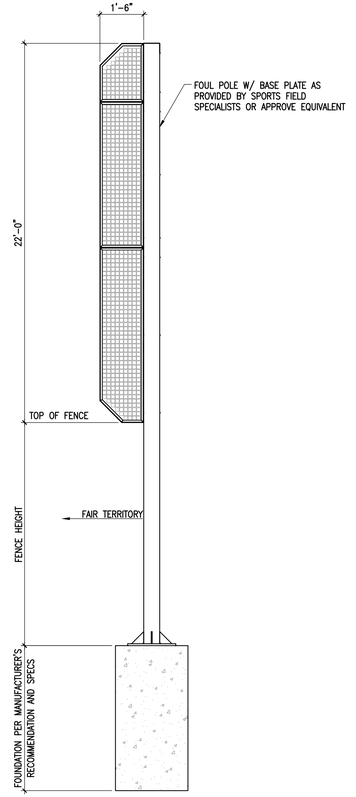


PLAN VIEW

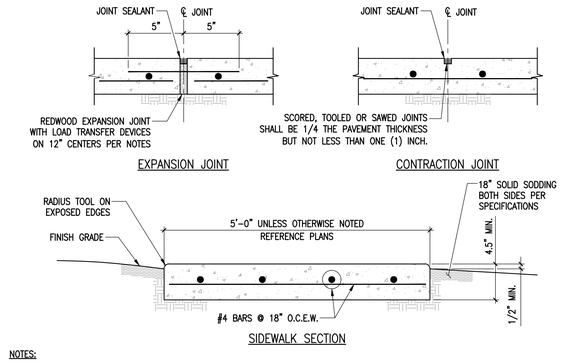
4 | BASEBALL FOUL POLE FOUNDATION

NOTE:

ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 | BASEBALL FOUL POLE 22FT WING

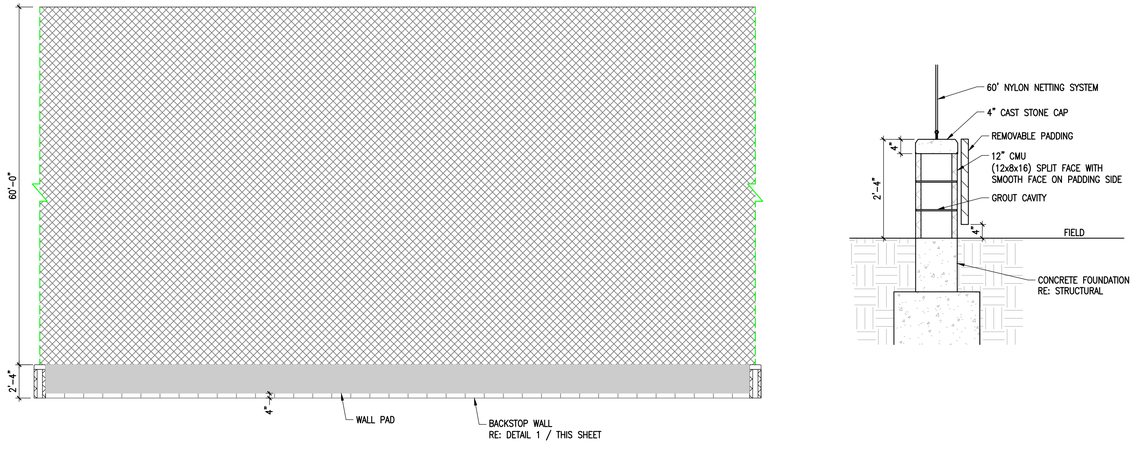


SIDEWALK SECTION

NOTES:

1. SLOPE TRANSVERSE SURFACE 2% (1:50) IN DIRECTION OF GENERAL SITE AREA DRAINAGE.
2. RUNNING SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5% (1:20).
3. FLOAT EDGES 1/4" MAXIMUM AT CONTROL JOINTS.
4. USE REDWOOD BOARD EXPANSION JOINT w/ #4 SMOOTH BAR w/ LOAD KEY (10" LONG).
5. REDWOOD BOARD EXPANSION JOINTS ON 15 FOOT CENTERS MAXIMUM.
6. CONTROL JOINT SPACING NOT TO EXCEED FIVE (5) FEET. SCORED, TOOLED OR SAWN JOINTS SHALL BE 1/4 THE PAVEMENT THICKNESS BUT NOT LESS THAN ONE (1) INCH.
7. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.

2 | CONCRETE SIDEWALK



1 | BACKSTOP WALL & NETTING DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

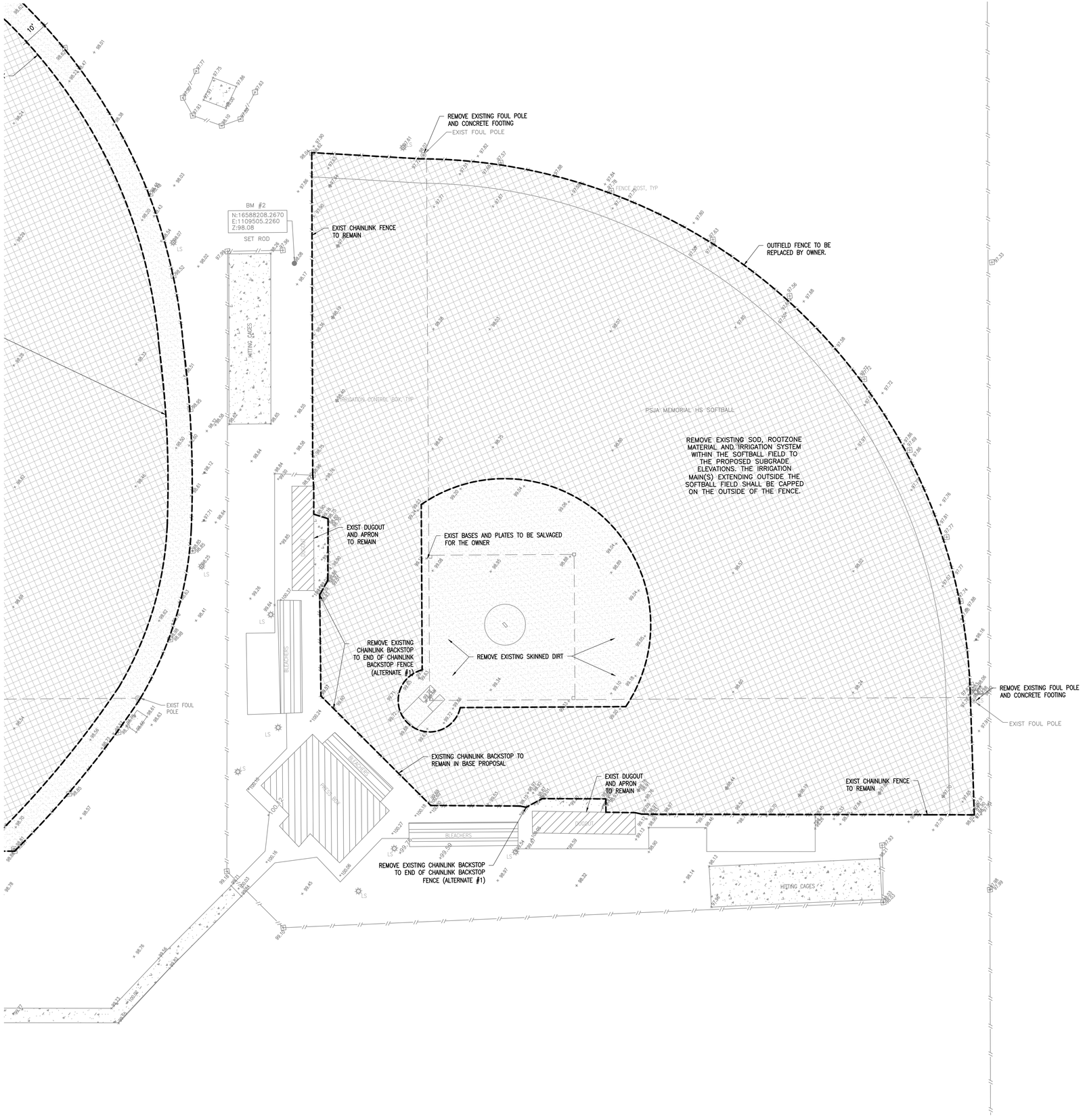
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL DETAILS

CA 108



SOUTH 7TH STREET

NORTH

10 0 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF SYNTHETIC TURF FIELD REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

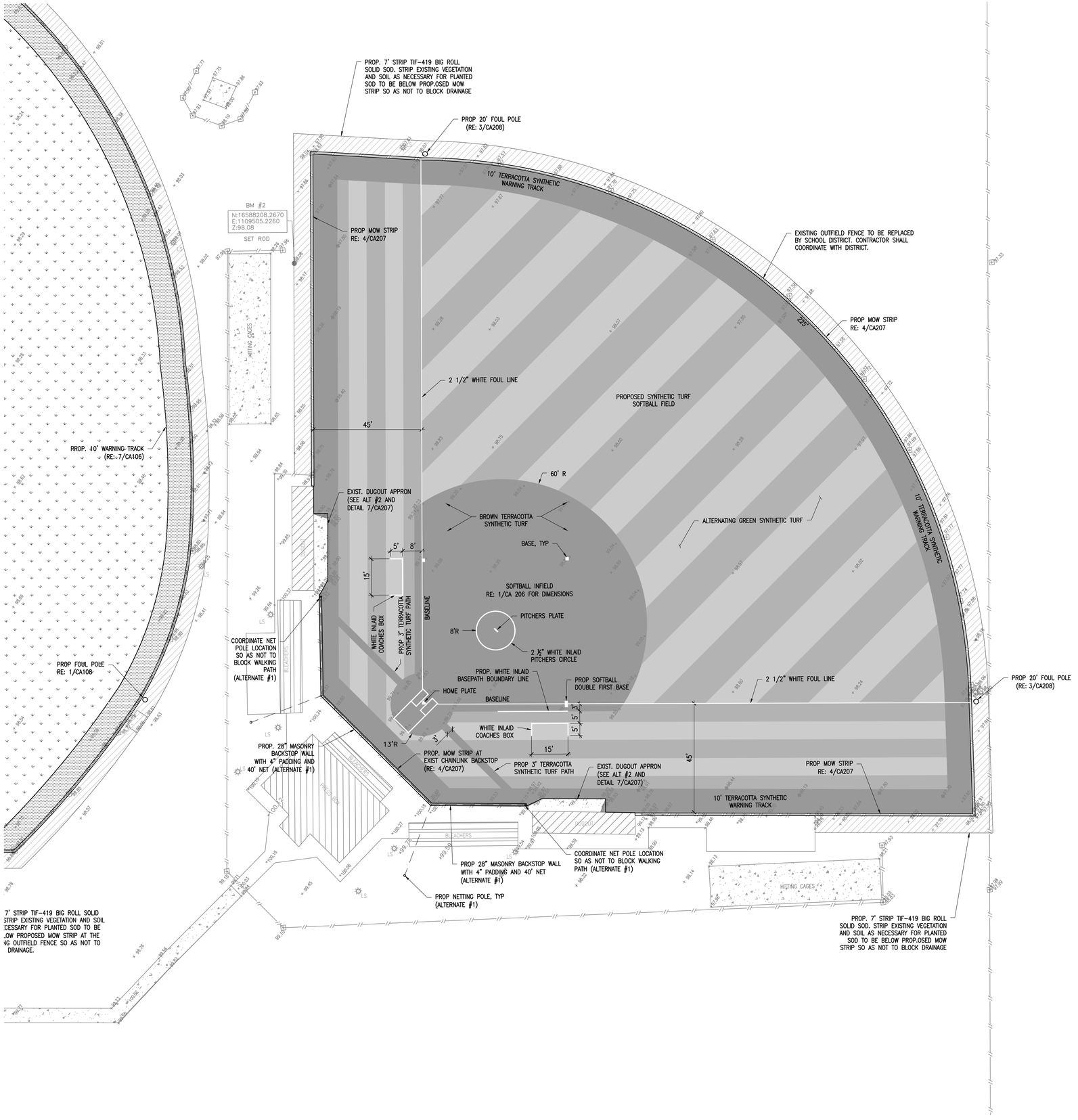
No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DEMOLTION PLAN

CA 200

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER
Last Saved: AGLUZMAN
b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 200 SOFTBALL DEMOLTION PLAN.dwg
Tuesday, August 06, 2019 5:59:36 PM



SOUTH 7TH STREET

NORTH

10 20
20 0 40

NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING

ALTERNATES

ALTERNATE #1: PROVIDE 28" MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
REGISTERED
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

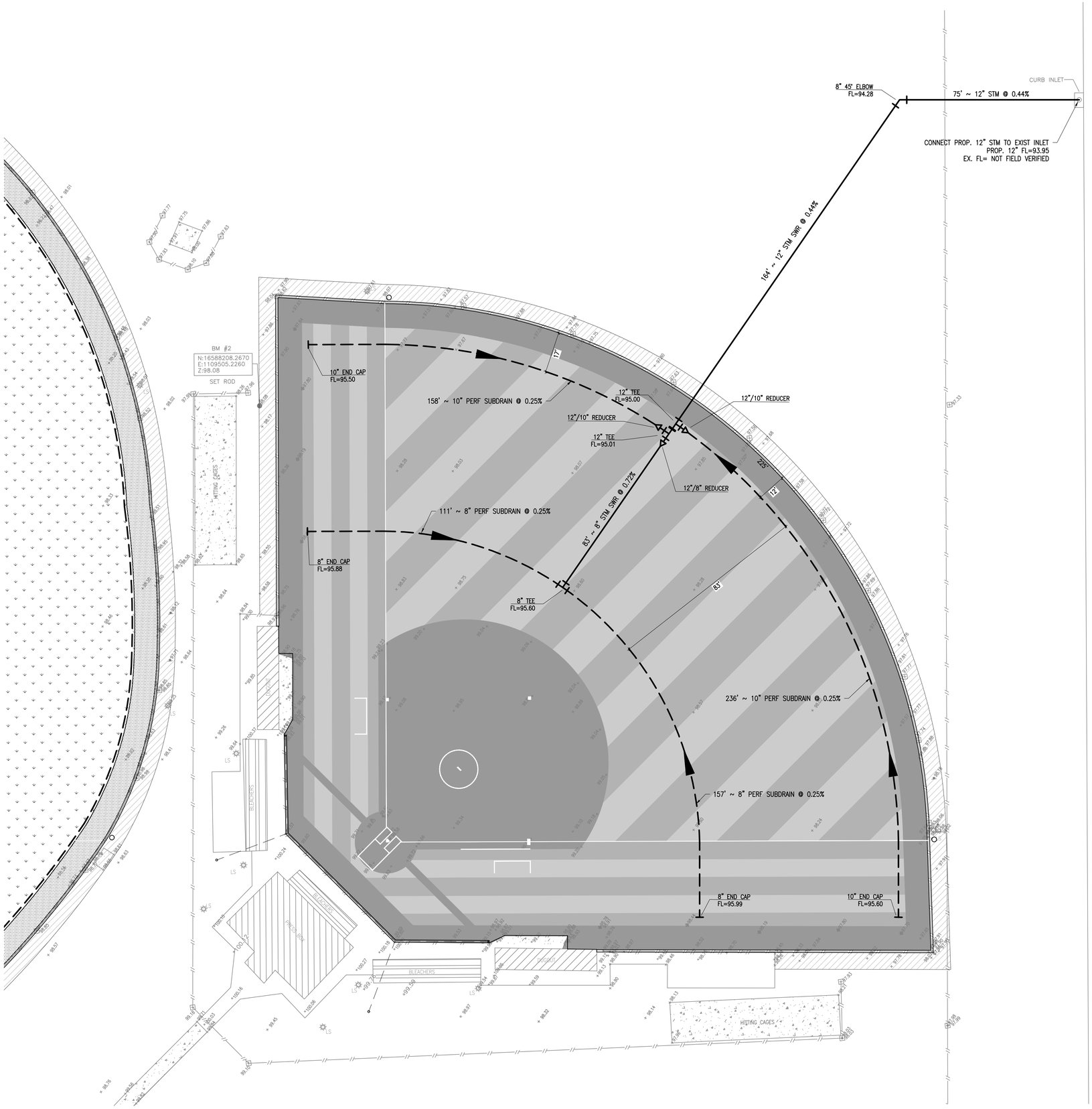
ISSUE FOR PROPOSALS

SOFTBALL SITE PLAN

CA 201

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\dv6-dwgs\8a bim cad\03 sports\psja memorial high school\CA 201 SOFTBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 6:02:37 PM



SOUTH 7TH STREET

NORTH

10 20
20 0 40

NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE. REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

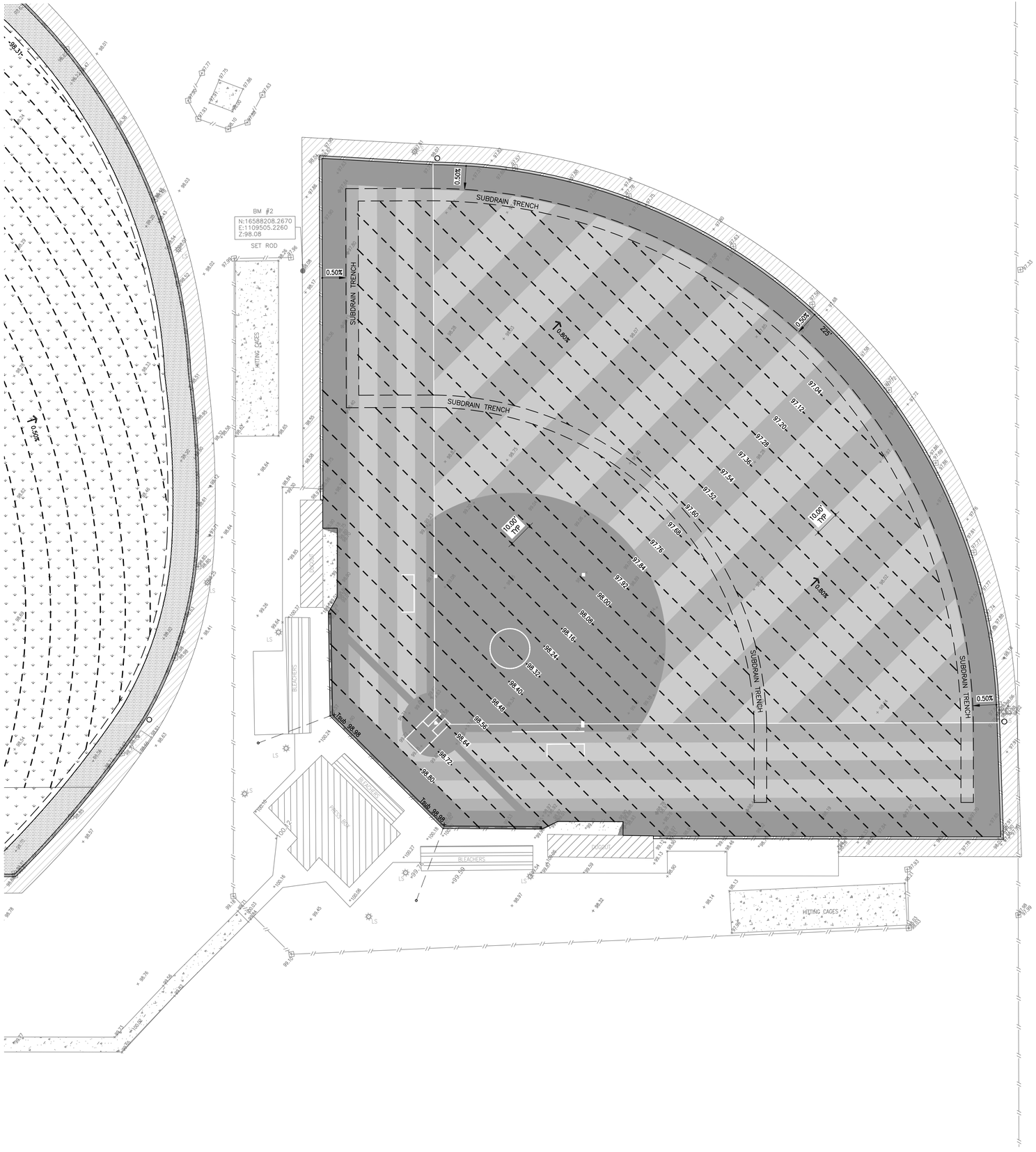
ISSUE FOR PROPOSALS

SOFTBALL
DRAINAGE PLAN

CA 202

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 202 SOFTBALL DRAINAGE PLAN.dwg Last Saved: TCRYER
Tuesday, August 06, 2019 8:59:38 PM



NORTH

10 0 20 20 40

SOUTH 7TH STREET

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

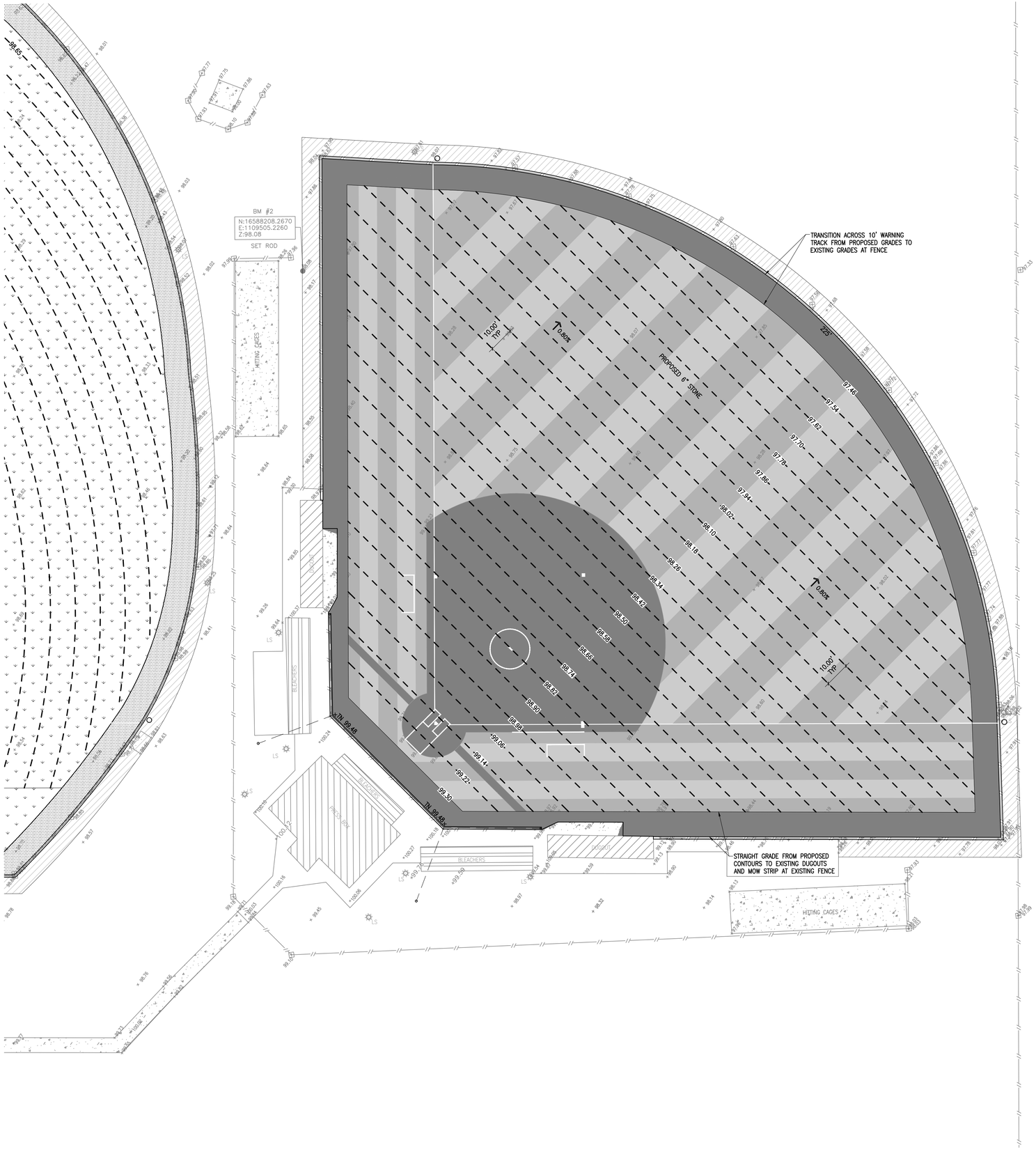
ISSUE FOR PROPOSALS

SOFTBALL SUBGRADE GRADING PLAN

CA 203

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\dlv6-dwgs\8a bim cad\03 sports\psja memorial high school\CA 203 SOFTBALL SUBGRADE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 6:05:36 PM



SOUTH 7TH STREET



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

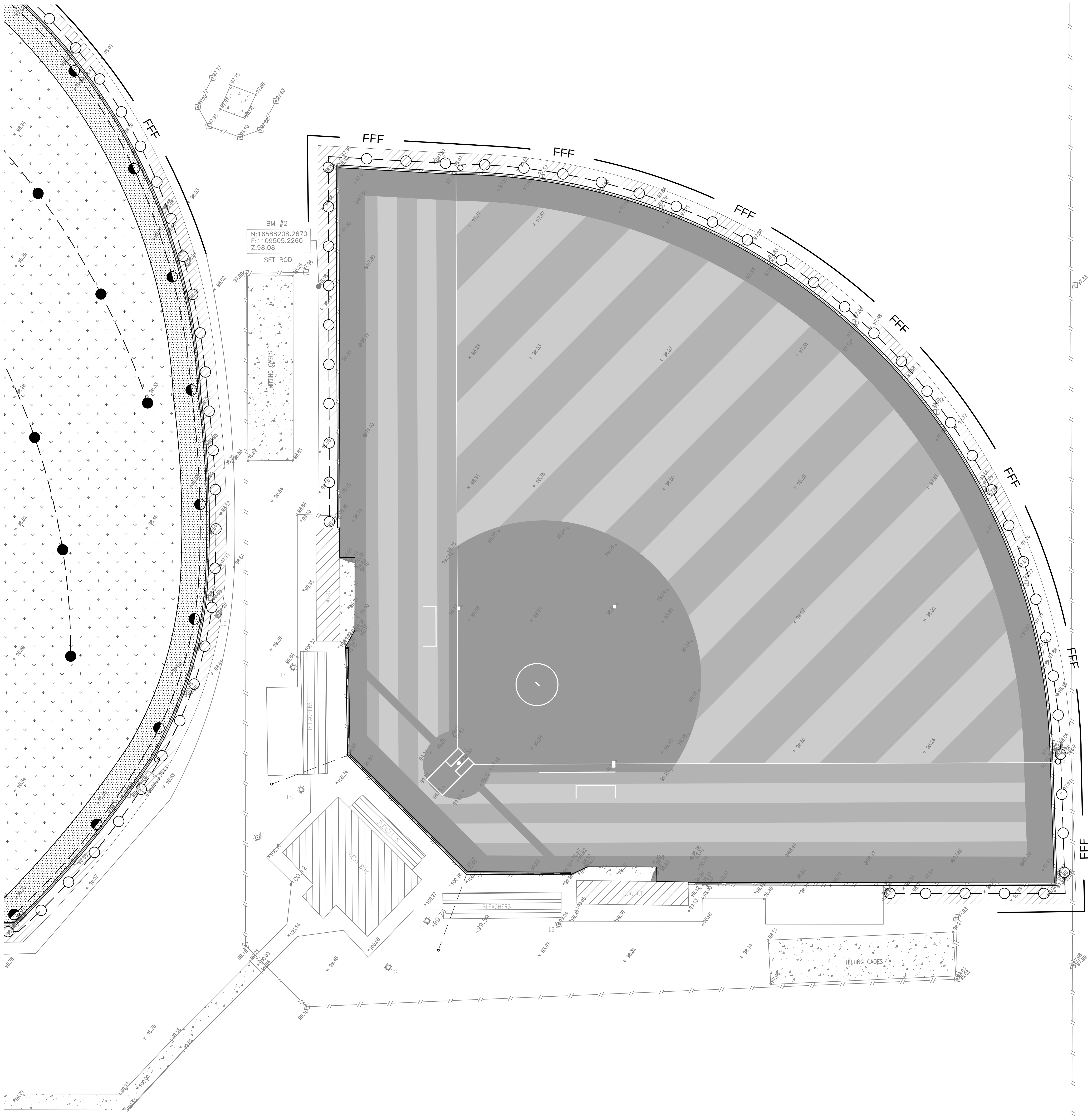
ISSUE FOR PROPOSALS

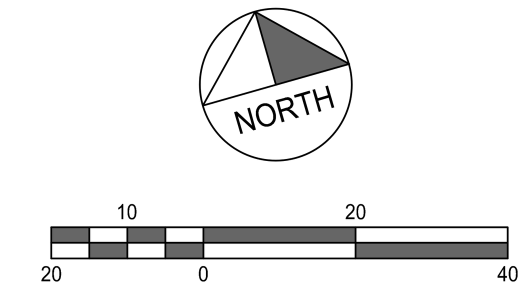
SOFTBALL STONE GRADING PLAN

CA 204

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 204 SOFTBALL STONE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 1:14:14 PM





NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CAN NOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE A-6 50.1 FLOW IN ZONE
2" SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL IRRIGATION PLAN

CA 205

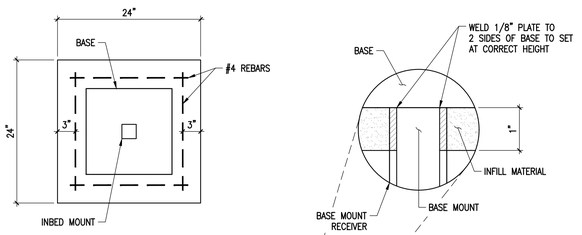
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 205 SOFTBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 6:07:20 PM

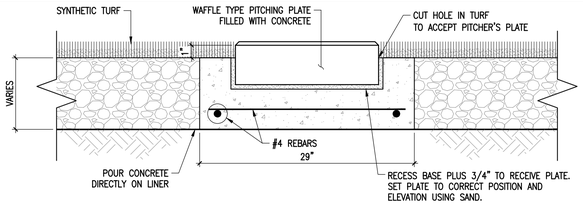
9 NOT USED

8 NOT USED

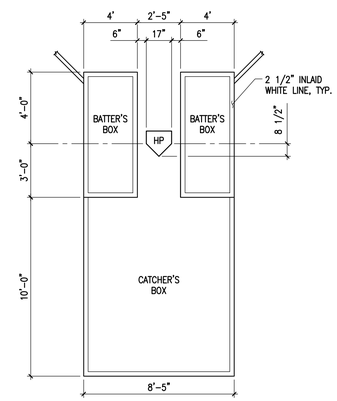
7 NOT USED



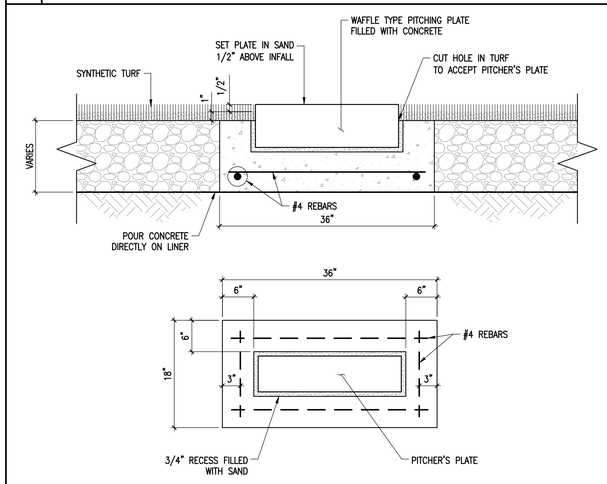
6 SOFTBALL BASE PLATE MOUNT



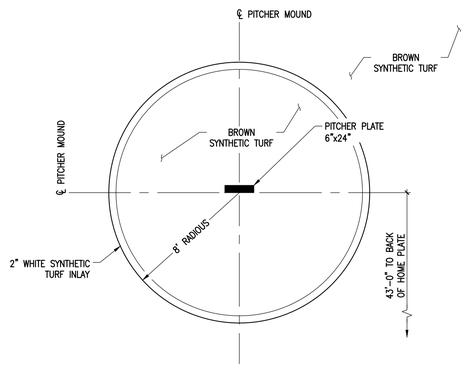
5 SOFTBALL HOME PLATE MOUNT



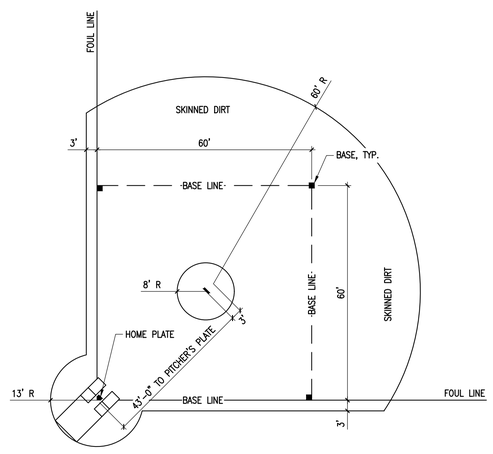
4 SOFTBALL BATTER'S BOX



3 SOFTBALL PITCHER'S PLATE MOUNT



2 FAST PITCH SOFTBALL PITCHER MOUND SYNTHETIC TURF



1 FAST PITCH SOFTBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
REGISTERED
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL
DETAILS

CA 206

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

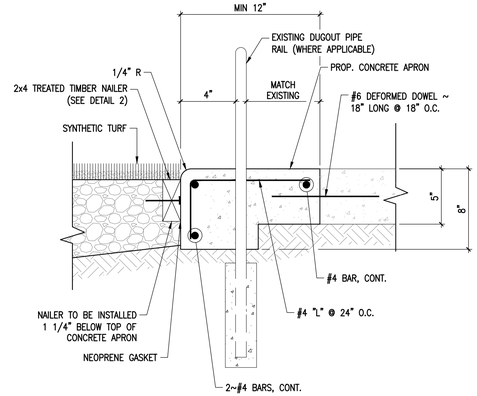
b:_sports group_project files_project files - rgv\19141SP\div6-dwgs\8a bim cad\03 sports\psja memorial high school\CA 206 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 7:36:09 PM

b:_sports group_project files_project files - rgv\v19141SP\dv8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 207 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN Tuesday, August 06, 2019 9:33:27 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

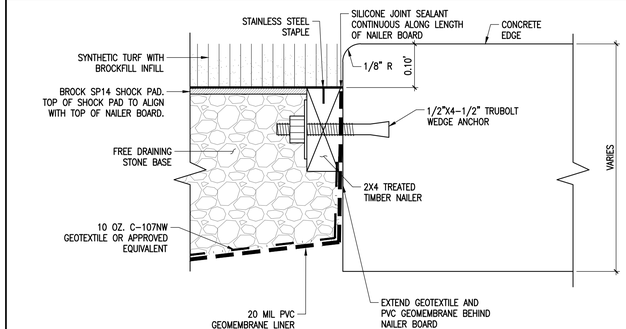
9 | NOT USED

8 | NOT USED

7 | CONCRETE APRON AT EXISTING DUGOUT RAIL (ALTERNATE #2)



6 | ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT. #3)



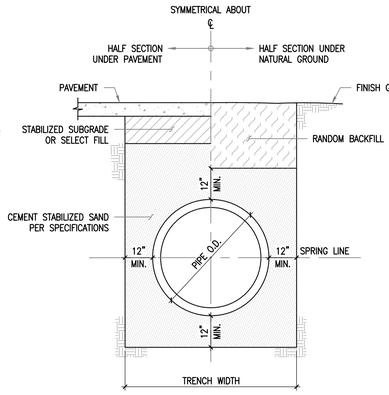
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

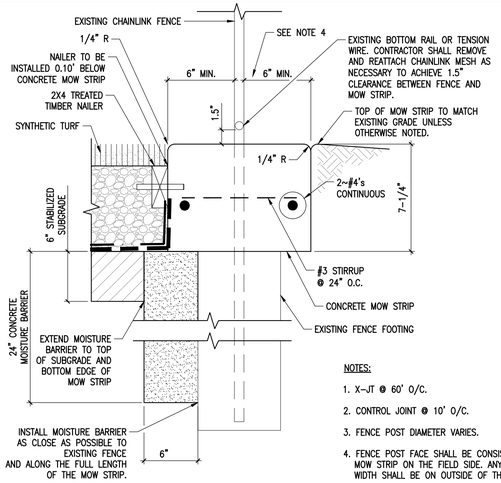
5 | STORM SEWER BEDDING AND BACKFILL

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.



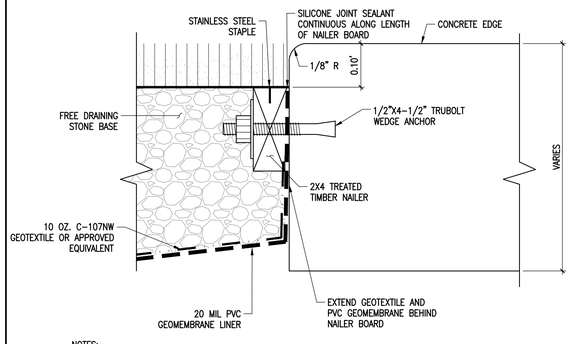
4 | SOFTBALL SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. FENCE POST DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

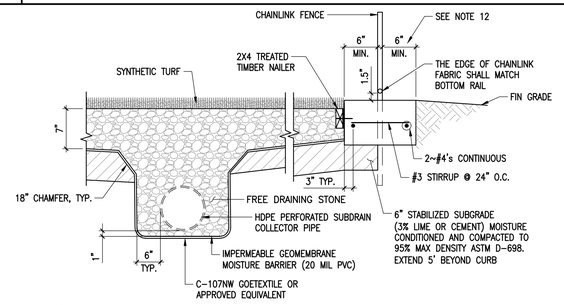
3 | NAILER BOARD SECTION



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

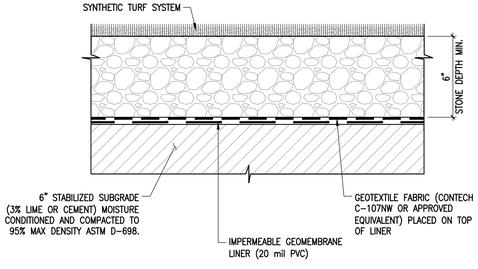
2 | SOFTBALL SYNTHETIC TURF SYSTEM EDGE SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 1.5" BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL 1/4" THICK X 3" WIDE NEOPRENE GASKET BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 7" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. POLE DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

1 | SOFTBALL SYNTHETIC TURF SECTION



PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

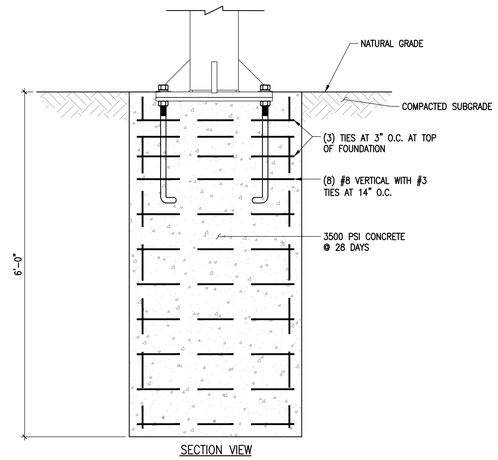
CA 207

6 | NOT USED

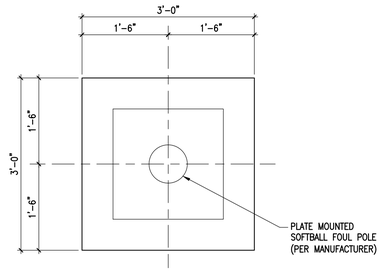
5 | NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POLE MANUFACTURER. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.



SECTION VIEW

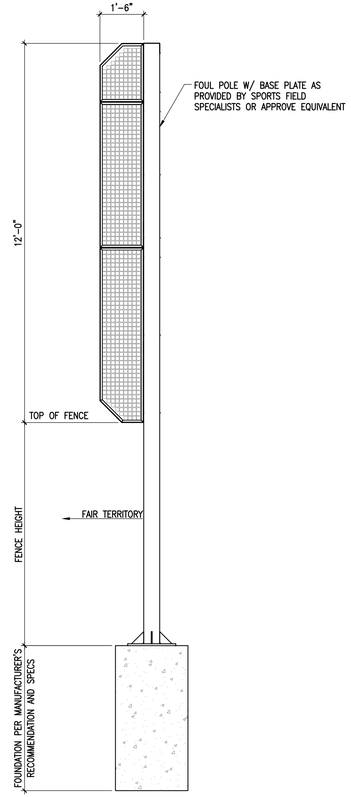


PLAN VIEW

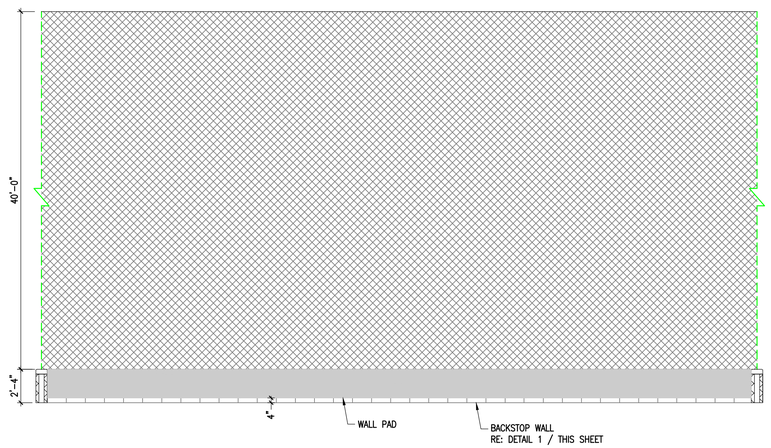
4 | SOFTBALL FOUL POLE FOUNDATION

NOTE:

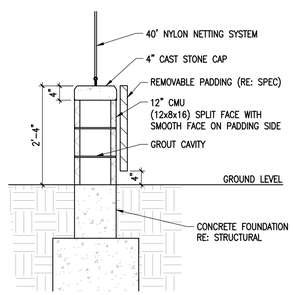
ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 | SOFTBALL FOUL POLE 22FT WING



2 | BACKSTOP NETTING DETAIL (ALTERNATE #1)



1 | BACKSTOP WALL DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA MEMORIAL ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 208

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

b:_sports group_project files_project files - rgv\19141SP\div8-dwgs\8a bim cad\03 sports\psja memorial high school\CA 208 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 06, 2019 9:05:50 PM

GENERAL:

G1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PROTECTED BY U.S.A. COPYRIGHT LAWS. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE STRUCTURE FOR THE BUILDING DESCRIBED IN THE ARCHITECTURAL DRAWINGS AT THE LOCATION INDICATED. THE DESIGN OF THE STRUCTURE REPRESENTED BY THESE DOCUMENTS IS NOT VALID FOR ANY OTHER LOCATION, PURPOSE OR USE.

G2 UNLESS NOTED OTHERWISE, THE GENERAL NOTES AND THE DETAILS IN THE DRAWINGS DESIGNATED AS "TYPICAL DETAILS," ARE APPLICABLE TO THE CONSTRUCTION IN ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE GENERAL NOTES AND THE TYPICAL DETAILS.

G3 THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATED PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G4 CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE (ENGINEER FILL IN) 20XX INTERNATIONAL BUILDING CODE AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN. IN THE EVENT OF A CONFLICT BETWEEN THE BUILDING CODE AND THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G5 ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOBSITE DURING CONSTRUCTION.

G6 UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM, BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.

G7 THE ROOF STRUCTURE AND IT'S SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT ADEQUATE AND SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

G8 THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN CLARIFICATIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

G9 THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

G10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

G11 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. REDUNDANT DIMENSIONS AND OTHER INFORMATION INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS MAY OR MAY NOT BE PROVIDED IN THE STRUCTURAL DRAWINGS. THE ENTIRE SET OF CONTRACT DOCUMENTS IS REQUIRED TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. THE CONTRACTOR SHALL ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. IF THERE IS SPECIFIC DIMENSIONAL OR OTHER INFORMATION THAT THE CONTRACTOR FEELS CAN NOT BE DETERMINED FROM THE CONTRACT DOCUMENTS AS A WHOLE, THEN THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER. THE ADDITIONAL INFORMATION WILL BE PROVIDED, OR THE CONTRACTOR WILL BE INFORMED WHERE THE INFORMATION CAN BE FOUND, OR HOW IT CAN BE CALCULATED FROM INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS.

G12 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS ANCILLARY DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S, AND HIS DETAILER'S, RESPONSIBILITY TO ESTABLISH WHERE SUCH ANCILLARY DIMENSIONS ARE NECESSARY AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

G13 ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. REF ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT INDICATED ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

G14 THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS SO STATED OR NOTED, THEY DO NOT INDICATE COMPONENTS THAT ARE NECESSARY FOR SUPPORTING AND STABILIZING THE WORK DURING CONSTRUCTION OR THE MEANS AND METHODS OF CONSTRUCTION, ALL OF WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

G15 ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, FOR INSPECTIONS UNLESS SPECIFICALLY INCLUDED IN THE ENGINEER'S CONTRACT.

G16 THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS INDICATED IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR RELOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION.

G17 VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS NOT INDICATED IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

G18 ELEVATIONS PROVIDED IN THE STRUCTURAL DRAWINGS ARE RELATIVE ELEVATIONS AND ARE NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATIONS OF VARIOUS ELEMENTS OF THE BUILDING.

G19 LOCATIONS AND LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS INDICATED ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN LOCATION, TYPE, SIZE, WEIGHT, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

G20 PROPOSED SUBSTITUTIONS OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE CONTRACTOR'S PERCEIVED INTEREST TO THE OWNER FOR ACCEPTING THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT OR OTHER INDEPENDENT VERIFICATION OF THE PRODUCTS PERFORMANCE. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "NOTICE IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES OR DEVIATIONS ARE BEING PROPOSED AND THEY ARE ACCOMPANIED WITH THE REQUIRED BACKUP DATA. PROPOSED SUBSTITUTIONS OR DEVIATIONS WILL NOT BE REVIEWED OR RESPONDED TO WITHOUT THE REQUIRED BACKUP DATA. THE CONTRACTOR SHALL REMAIN LIABLE FOR ANY SUBSTITUTION OR DEVIATION UNLESS ACKNOWLEDGMENT AND ACCEPTANCE IS PROVIDED BY THE ENGINEER IN WRITING.

G21 THE CONTRACTOR SHALL COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

G22 DO NOT SCALE THE DRAWINGS IN THE STRUCTURAL DOCUMENTS FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

G23 CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND 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.

G24 THE CONTRACTOR SHALL ARRANGE PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

G25 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES OR OTHER OBSTRUCTIONS IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF A DISCOVERED ITEMS WITH THE CONSTRUCTION OF NEW FOUNDATION ELEMENTS.

EXISTING CONDITIONS:

EX1 EXISTING CONDITIONS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF ANY EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS INDICATED ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER.

EX2 ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

EX3 THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

EX4 REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

EX6 EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.

EX7 THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.

EX8 DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.

EX9 THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.

EX10 WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

SHOP DRAWINGS:

SDR1 SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

SDR2 THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.

SDR3 THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

SDR3 SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.

SDR4 THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.

A. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.
B. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.

SDR5 OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

SDR6 THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.

SDR7 SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

SDR8 COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

GEOTECHNICAL REPORT:

GR1 FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:

GEOTECHNICAL CONSULTANT:	TERRACON CONSULTANTS, INC.
GEOTECHNICAL REPORT NUMBER:	88195056
GEOTECHNICAL REPORT NAME:	PSJA MEMORIAL SCHOOL SOFTBALL & BASEBALL FIELD TURF
GEOTECHNICAL REPORT LOCATION:	ALAMO, TX
GEOTECHNICAL REPORT DATE:	JUNE 18, 2019

GR2 THE GEOTECHNICAL REPORT IS AVAILABLE TO THE CONTRACTOR AS A REFERENCE DOCUMENT UPON REQUEST TO THE OWNER.

GR3 THE CONTRACTOR SHALL READ THE GEOTECHNICAL INVESTIGATION REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE RECOMMENDATIONS LISTED IN GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.

GR4 THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR APPLICABILITY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.

GR5 THESE PLANS, AND THE PROJECT SPECIFICATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND COMMENT BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO ENSURE CONFORMANCE BETWEEN THE FOUNDATION DESIGN AND THE INTERPRETATION OF THE GEOTECHNICAL RECOMMENDATIONS.

AG&E Structural Engenuity
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435

GEOTECHNICAL REPORT WITHOUT LOAD BEARING VALUES:

NG1 LOAD BEARING VALUES WERE NOT AVAILABLE NOR PRODUCED BY THE OWNER FOR OUR USE ON THIS PROJECT. AS A RESULT, FOR THE FOUNDATION PORTIONS OF THIS PROJECT, WE PERFORMED OUR ANALYSIS UTILIZING THE PRESUMPTIVE LOAD-BEARING VALUES OF SOILS SECTION OF THE IBC FOR DETERMINATION OF THE ALLOWABLE VERTICAL AND LATERAL LOADING CAPACITIES. SEE IBC 2015 SECTION 1806 PRESUMPTIVE LOAD-BEARING VALUES OF SOIL AND ASSOCIATE TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES, CLASS 5 SOILS HAVE BEEN ASSUMED FOR USE IN DESIGN ON THIS PROJECT.

TABLE BELOW TAKEN FROM IBC 2015 SECTION 1806
TABLE 1806.2
PRESUMPTIVE LOAD-BEARING VALUES

CLASS OF MATERIALS	VERTICAL FOUNDATION PRESSURE (PSF)	LATERAL BEARING PRESSURE (PSF/FT BELOW NATURAL GRADE	LATERAL SLIDING RESISTANCE	
			COEFFECIENT OF FRICTION[A]	COHESION (PSF)[B]
1. CRYSTALLINE BEDROCK	12,000	1,200	0.70	---
2. SEDIMENTARY AND FOLIATED ROCK	4,000	400	0.35	---
3. SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000	200	0.35	---
4. SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC,GM AND GC)	2,000	150	0.25	---
5. CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500	100	---	130

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT PER FOOT = 0.157 kPa/m
a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD
b. COHESION VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1806.3.2

FOOTINGS

F1 FOOTINGS DESIGNS ARE BASED UPON THE INFORMATION GIVEN IN THE GENERAL NOTES SECTION: DRAWINGS ISSUED WITHOUT GEOTECHNICAL REPORT. REFER TO TYPICAL FOOTING DETAIL FOR SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES IS SHOWN ON PLANS.

F2 FOOTINGS CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE IBC 2015. ANY ACCUMULATED WATER SHALL BE PUMPED FROM THE EXCAVATION PRIOR TO CONCRETE PLACEMENT AND REINSPECTED.

F3 FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE. WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.

F4 PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.

F5 ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.

F6 REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.

F7 ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL LABORATORY IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.

F8 THE TOPS OF ALL PERIMETER FOOTINGS SHALL BE AT LEAST 24 INCHES BELOW THE FINAL SURROUNDING GRADE.

F9 TEMPLATES SHALL BE UTILIZED TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. DETAILS OF THE TEMPLATES SHALL BE PROVIDED IN THE FOOTING SHOP DRAWINGS.

GENERAL FOUNDATION NOTES:

FD1 GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED.

FD2 REFERENCE THE FOUNDATION PLAN FOR SIZE AND SPACING OF SLAB-ON-GRADE REINFORCEMENT.

FD3 PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS UNLESS NOTED OTHERWISE. REFER TO TYPICAL CORNER BAR DETAIL.

FD4 FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.

FD5 PROVIDE WATERSTOPS AT ALL SUB GRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUB GRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS INDICATED IN THE DOCUMENTS.

FD6 NO VERTICAL CONDUIT, SLEEVE OR PIPE IS PERMITTED TO BE EMBEDDED IN CONCRETE BEAM WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS SPECIFICALLY DETAILED OTHERWISE.

SHEET LIST - MEMORIAL HIGH SCHOOL

SHEET NUMBER	SHEET NAME
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 101	MEMORIAL HS BASEBALL SITE PLAN
S 201	MEMORIAL HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PRK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS
800 S. ALAMO ROAD
ALAMO, TX 78516
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 000

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

AGE
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

CONCRETE MIX:

CM1 CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGN SCHEDULE								
USE	28-DAY STRENGTH (PSI)	SLUMP (IN)	MAX. WATER CEMENT RATIO	MAX. CURED DENSITY (PCF)	MAX. AGGREGATE SIZE (IN)	CEMENT TYPE	MAX. ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
FOOTINGS	3,000	3-5	0.50	150	1"	I / II	30	5
BEAMS	4,000	3-5	0.50	150	1"	I / II	20	-
WALLS	4,000	6-8	0.50	150	1"	I / II	30	5

CM2 CHANGING MATERIAL PROPORTIONS, PROPERTIES, SOURCES, COMBINATIONS, ADDITIONS OR ANYTHING WHICH IS A CHANGE IN THE APPROVED MIX DESIGN REQUIRES A NEW MIX DESIGN SUBMITTAL. ADMIXTURES PLACED IN THE CONCRETE MIX SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INCLUDED IN THE SUBMITTED CONCRETE MIX DESIGN FOR APPROVAL.

CM3 CONCRETE SLUMPS INDICATED ABOVE ARE AFTER THE ADDITION OF WATER-REDUCING ADMIXTURES OR PLASTICIZERS. SLUMP AT THE POINT OF PLACEMENT SHALL NOT EXCEED AMOUNT SPECIFIED. DO NOT PLACE CONCRETE WITH SLUMP AND TEMPERATURE OUTSIDE THE LIMITS PROVIDED ON THE APPROVED MIX DESIGNS. USE OF CHLORIDES IN ANY ADMIXTURE IS NOT PERMITTED.

CM4 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN THE SCHEDULE (MASS CONCRETE SHALL ONLY BE TYPE II CEMENT). NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.

CM5 FLY ASH SHALL NOT BE USED AS A CONSTITUENT IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO THE MAXIMUM PERCENTAGE LISTED ABOVE. THE WEIGHT OF THE FLY ASH SHALL BE ADDED TO THE WEIGHT OF THE CEMENT IN THE CALCULATION OF THE WATER CEMENT RATIO. THE CONTRACTOR SHALL CONFIRM IN THE MIX DESIGN SUBMITTAL THAT THE USE OF FLY ASH WILL NOT INTERFERE WITH THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WITH THE CONCRETE.

CM6 AIR ENTRAINMENT IS REQUIRED ONLY IN NORMAL WEIGHT CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS 1.5 %. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.

CM7 MIX FOR TOPPING SLABS THAT ARE LESS THAN TWO INCHES THICK SHALL CONTAIN "FIBERMESH" POLYPROPYLENE, MD GRADED FIBERS WITH A MINIMUM RATIO OF 1.5 POUNDS PER CUBIC YARDS. ALSO, REFER TO NOTES SECTIONS ON NON-METALLIC REINFORCEMENT AND NON-COMPOSITE TOPPING SLABS.

CM8 SHRINKAGE LIMIT FOR CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL BE 0.045% AT 28 DAYS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS TO THE ENGINEER PRIOR TO CONSTRUCTION.

CM9 NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT AT CONTRACTOR'S OPTION.

CM10 THE COMPRESSIVE STRENGTH OF GROUT BELOW BASE PLATES SHALL BE AT LEAST 7000 PSI.

CM11 TESTING ACCEPTANCE CRITERIA FOR CAST-IN-PLACE CONCRETE IS IN THE SPECIFICATIONS.

CM12 USE CALCIUM NITRITE AT A RATE OF TWO GALLONS/CUBIC YARD IN EXPOSED PARKING GARAGE STRUCTURES AND EXTERIOR TOPPING SLABS.

CM13 CONTRACTOR SHALL SUBMIT THE MIX DESIGN SUBMITTALS TO THE PROJECT'S TESTING LABORATORY PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER. A SUBMITTAL WITHOUT TESTING LABORATORY'S APPROVAL WILL BE REJECTED.

CONCRETE REINFORCING:

CR1 REINFORCING STEEL SHALL CONFORM TO ASTM A615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. GRADES SHALL BE AS FOLLOWS:
- A. #3 THROUGH #10.....GRADE 60
- B. #11 THROUGH #18.....GRADE 75

CR2 REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS INDICATED ABOVE. WELDING SHALL CONFORM TO AWS D1.4. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE DRAWINGS.

CR3 ELECTRICALLY-WELDED WIRE REINFORCEMENT (WWR) OF COLD-DRAWN WIRE (70,000 PSI YIELD) SHALL CONFORM TO ASTM A185, OF SIZE INDICATED ON DRAWINGS.

CR4 ALL HEADED STUDS AND DEFORMED BAR ANCHORS (DBA) SHALL BE WELDED BY FULL-FUSION PROCESS, AS FURNISHED BY TRW NELSON STUD WELDING DIVISION OR EQUAL.

CR5 DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI 315.

CR6 IN GENERAL, CLEAR CONCRETE COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (WITH OR WITHOUT VAPOR RETARDER):	ALL	3"	3/8"
EXPOSED TO EARTH OR WEATHER	#5 BAR AND SMALLER	1 1/2"	3/8"
	#6 BAR AND LARGER	2"	1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: (TYPICAL INTERIOR CONDITIONS, CRAWL SPACES, AND UNDERSIDE OF PARKING FLOORS ARE IN THIS CATEGORY)	SLABS AND WALLS	1"	3/8"
	WIDE PAN, SKIP JOISTS AND BEAMS	1 1/2"	1/2"
	COLUMNS	1 5/8"	1/2"

CR8 SPECIFIC COVER REQUIREMENTS ARE AS FOLLOWS:
(REF TABLE ABOVE IF SPECIFIC CASE IS NOT LISTED)

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
GRADE BEAMS, TOP, BOTTOM AND SIDES WHEN THREE SIDES FORMED-OTHERWISE REF ABOVE	ALL	2"	3/8"
SLAB BOTTOMS OVER VOID FORMS	ALL	2"	3/8"
SLAB-ON-GRADE	ALL	2"	+3/8" - 0"
PIERS	ALL	3"	3/8"
EXTERIOR FACE OF TILT-UP WALL PANELS (MEASURED FROM INSIDE FACE OF REVEAL)	REF TYP DETAIL		3/8"
			3/8"
INTERIOR FACE OF TILT-UP WALL PANELS	REF TYP DETAIL		3/8"
			3/8"
EDGE OF TILT-UP WALL PANELS	MAIN REINFORCEMENT	2"	3/8"
	TIES & STIRRUPS	1 1/2"	3/8"

CR9 ALL SCHEDULED REINFORCING BARS SHALL BE DETAILED ACCORDING TO THE BAR BENDING DIAGRAMS, SECTIONS AND DETAILS. FOR BARS IN UNSCHEDULED CONCRETE MEMBERS WITHOUT A SPECIFIED BAR TYPE, SHAPE OR LENGTH, DETAIL BARS ACCORDING TO THE FOLLOWING CRITERIA:
- A. DETAIL ALL BARS CONTINUOUSLY WITH HOOKS AND SPLICES SPECIFIED BELOW.
- B. HOOKS:
  1. ALL BEAM, WALL AND SLAB TOP BARS AND INTERMEDIATE BARS SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
  2. ONE-THIRD OF THE BEAM AND WALL BOTTOM BARS (TWO BARS MINIMUM) SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
- C. SPLICE TYPES (TYPICAL, UNLESS NOTED OTHERWISE):
  1. #3 TO #11 BARS: LAP SPLICES
  2. #14 AND #18 BARS: MECHANICAL SPLICES
- D. SPLICE LOCATIONS (TYPICAL, UNLESS NOTED OTHERWISE):
  1. SPLICE VERTICAL BARS IN COLUMNS AND WALLS ONLY AT FLOOR LINES. SLOPE OF INCLINED PORTION OF THE OFFSET BENT BARS LAP SPLICES SHALL NOT EXCEED 1 TO 6 (HORIZONTAL TO VERTICAL).
  2. SPLICE TOP BARS AT MIDSPAN BETWEEN SUPPORTS. NOTE - TOP BAR LAP SPLICES ARE NOT ALLOWED AT THE FOLLOWING LOCATIONS:
     a. CANTILEVER SPANS.
     b. SPANS ADJACENT TO CANTILEVERS.
     c. SPANS WITH LENGTHS LESS THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
  3. WHERE SPECIFIED TOP BARS IN ADJACENT BEAMS ARE DIFFERENT, PROVIDE THE LARGER OF THE REINFORCING OVER THE COMMON SUPPORT OF THE TWO ADJACENT BEAMS AND LOCATE THE LAP SPLICE BETWEEN THE LARGER BARS AND THE SMALLER BARS AT MID SPAN OF ONE OF THE BEAMS WITH THE SMALLER BARS SPECIFIED.
  4. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS.
  5. ALTERNATE SPLICES OF INTERMEDIATE BEAM BARS AND HORIZONTAL WALL BARS BETWEEN MIDSPANS AND SUPPORTS, WITH NO MORE THAN 50 PERCENT OF THE BARS ON EITHER FACE SPLICED AT THE SAME LOCATIONS.
  6. ALTERNATE MECHANICAL SPLICE LOCATION BY TWO FEET WITH NO MORE THAN 50 PERCENT OF THE BARS SPLICED AT THE SAME LOCATIONS.

CR10 PROVIDE DOWELS AT ALL EDGES OF CONCRETE SLABS PER TYPICAL SLAB DOWEL DETAIL.

CR11 PROVIDE DOWELS TO MATCH MASONRY WALL VERTICAL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU WALL PER THE LAP SCHEDULES IN CMU TYPICAL DETAILS, U.N.O.

CR12 SPLICING OF WELDED WIRE MESH SHALL BE AS FOLLOWS:
- A. INSTALL WELDED WIRE FABRIC IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS. THE LENGTH OF LAP SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL NOT BE LESS THAN ONE SPACING OF THE CROSS WIRES PLUS 2 INCHES. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.

CR13 EPOXY-COATED REINFORCEMENT:
- A. PROVIDE EPOXY-COATED REINFORCEMENT AS FOLLOWS:
  1. FOR REINFORCING EMBEDDED IN CONCRETE USE HILTI-HY 200 ADHESIVE
  2. FOR REINFORCING EMBEDDED IN CMU WALLS USE HILTI-HY 70 ADHESIVE
- B. EPOXY-COATING OF REINFORCEMENT SHALL CONFORM TO ASTM A 775.
- C. WHEN REQUIRED, REPAIR DAMAGED EPOXY-COATING WITH PATCHING MATERIAL CONFORMING TO ASTM A 775. REPAIR IN ACCORDANCE WITH PATCHING MATERIAL MANUFACTURER'S RECOMMENDATIONS.
- D. FASTEN EPOXY-COATED REINFORCEMENT WITH NYLON-, EPOXY-, OR PLASTIC-COATED WIRE OR EQUIVALENT.
- E. SUPPORT EPOXY-COATED REINFORCEMENT FROM FORMWORK ON COATED WIRE BAR SUPPORTS OR ON BAR SUPPORTS MADE OF DIELECTRIC MATERIAL OR EQUIVALENT.
- F. DO NOT WELD EPOXY-COATED REINFORCEMENT.
- G. DO NOT FIELD BEND EPOXY-COATED REINFORCEMENT.
- H. EPOXY-COATED REINFORCEMENT CUT IN FIELD SHALL HAVE ENDS OF REINFORCEMENT COATED WITH SAME MATERIAL USED FOR REPAIR OF COATING DAMAGE.
- I. FADING OF COLOR OF COATING SHALL NOT BE CAUSE FOR REJECTION.
- J. REINFORCEMENT AT TIME CONCRETE IS PLACED, SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT MAY ADVERSELY AFFECT OR REDUCE BOND. DO NOT CLEAN REINFORCEMENT WITH A MATERIAL OR BY A METHOD WHICH WILL DETERIORATE EPOXY-COATING.

CAST-IN-PLACE CONCRETE:

CIP1 ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT REQUIREMENT OF EITHER THE INTERNATIONAL BUILDING CODE (2015) OR THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) (2014).

CIP2 CONSTRUCTION JOINTS:
- A. PERMITTED ONLY WHERE INDICATED ON DRAWINGS.
- B. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
  1. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST-TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
  2. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
- D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
- E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER.

CIP3 CONDUITS, PIPES AND SLEEVES
- A. VARIOUS CONDUITS, PIPES AND SLEEVES WHICH ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MAY BE REQUIRED BY EQUIPMENT SUPPLIERS OR THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. COORDINATE AND IMPLEMENT THESE ITEMS INTO THE CONCRETE WORK OBSERVING THE FOLLOWING GUIDELINES.
- B. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL COMPLY WITH ACI 318, AND THESE SPECIFIC NOTES. THESE NOTES SHALL GOVERN WHERE THEY ARE IN CONFLICT WITH ACI. ALUMINUM EMBEDDED ITEMS ARE NOT PERMITTED.
- C. HORIZONTAL CONDUITS AND PIPES EMBEDDED IN SLABS.
  1. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB.
  2. THE CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL NOT BE LESS THAN 3 OUTSIDE DIAMETERS OR 6 INCHES, WHICHEVER IS GREATER.
  3. PLACE CONDUITS AND PIPES WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS.
  4. DO NOT REPOSITION REINFORCING FROM ITS SPECIFIED LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES IN SLABS.
- D. HORIZONTAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS UNLESS NOTED OTHERWISE.
  1. HORIZONTAL SLEEVES, CONDUITS OR PIPES SHALL PASS THROUGH AT RIGHT ANGLES TO THE SIDES OF BEAMS AND SHALL NOT BE PLACED LONGITUDINALLY WITHIN BEAMS.
  2. REFER TO TYPICAL DETAILS FOR ALLOWABLE PLACEMENT AND SIZE OF HORIZONTAL SLEEVES, CONDUITS OR PIPES AND REQUIRED ADDITIONAL REINFORCING.
- E. VERTICAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS.
  1. VERTICAL SLEEVES, CONDUITS OR PIPES IN BEAMS SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
- F. SLEEVES, CONDUITS OR PIPES, UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS, ARE NOT ALLOWED IN PILASTERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.
- G. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT PLATES IS NOT PERMITTED WITHIN FIVE FEET IN ANY DIRECTION OF COLUMN FACE UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- H. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT SLABS WITH DROP PANELS IS NOT PERMITTED WITHIN THE DROP PANEL UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- I. CORING OF TWO-WAY SLABS IS NOT PERMITTED UNLESS ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER AND SLAB REINFORCEMENT IS LOCATED AND AVOIDED.

CIP4 WET CURE ALL CONCRETE THAT WILL BE COLORED OR STAINED.

CIP5 HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

CIP6 REMOVAL OF FORMWORK:
- A. EXCEPT AS HEREIN SPECIFIED, REMOVE FORMWORK AND RESHORE IN ACCORDANCE WITH ACI 301 AND RECOMMENDATIONS OF ACI 347 TO ENSURE COMPLETE SAFETY OF FORMWORK AND STRUCTURE.
- B. FORMWORK FOR COLUMNS, WALLS, SIDES OF BEAMS AND OTHER PARTS NOT SUPPORTING WEIGHT OF CONCRETE MAY BE REMOVED AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO RESIST DAMAGE FROM FORMWORK REMOVAL OPERATIONS.
- C. RETAIN FORMS AND SHORING FOR ALL HORIZONTAL WORK UNTIL CONCRETE HAS ACHIEVED AT LEAST 75% OF ITS DESIGNATED 28-DAY COMPRESSIVE STRENGTH AND WILL SAFELY SUPPORT ITS OWN WEIGHT AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.
- D. RETAIN FORMS AND SHORING FOR POST-TENSIONED GIRDERS, BEAMS, AND SLABS UNTIL MEMBER HAS BEEN FULLY TENSIONED AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.

CIP7 RESHORING:
- A. NO CONSTRUCTION LOADS OR LIVE LOADS ARE PERMITTED ON FLOOR DURING STRIPPING AND UNTIL RESHORING IS COMPLETE.
- B. BEGIN RESHORING AFTER FORMS AND SHORES HAVE BEEN REMOVED FROM A LARGE ENOUGH AREA SUCH THAT FLOOR DEFLECTS AND SUPPORTS ITS OWN WEIGHT. COMPLETE RESHORING NO LATER THAN END OF WORKING DAY ON WHICH STRIPPING OCCURS.
- C. PLACE RESHORES SNUG AGAINST SOFFIT OF FLOOR ABOVE. DO NOT TIGHTEN RESHORES AS TO PRELOAD FLOOR BELOW.
- D. LOCATE SHORES AND RESHORES ONLY ABOVE WHERE RESHORES ARE LOCATED BELOW. WHERE SHORES OR RESHORES ARE NOT ALIGNED WITH RESHORES BELOW, SUBMIT DESIGN CALCULATIONS, PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, INDICATING THAT INDUCED STRESSES DO NOT EXCEED CAPACITY OF SLAB.
- E. EXTEND RESHORING OVER A SUFFICIENT NUMBER OF FLOORS TO DISTRIBUTE WEIGHT OF NEWLY PLACED CONCRETE, FORMWORK AND CONSTRUCTION LIVE LOADS IN SUCH A MANNER THAT SPECIFIED DESIGN LIVE LOADS (TAKING INTO ACCOUNT APPLICABLE LIVE LOAD REDUCTION) OF FLOORS BELOW ARE NOT EXCEEDED. NUMBER OF FLOORS REQUIRED TO SUPPORT WET CONCRETE SHALL BE DETERMINED BY CONTRACTOR'S LICENSED ENGINEER.
- F. DO NOT REMOVE RESHORES SUPPORTING ROOFS UNTIL CONCRETE HAS ACHIEVED 100% OF ITS SPECIFIED 28-DAY STRENGTH OR 21 DAYS, WHICHEVER IS LONGER.

CIP8 PROVIDE A MINIMUM 4 INCH THICK HOUSE KEEPING PAD BELOW MEP EQUIPMENT (SEE TYPICAL DETAIL). REFER TO THE MEP OR ARCH PLANS FOR LOCATIONS AND SIZES OF THESE PADS.

CIP9 UNLESS SPECIFICALLY NOTED OTHERWISE, THE TOP OF ALL CONCRETE SURFACES THAT SUPPORT PRECAST, MASONRY, CURTAIN WALL SYSTEMS, ETC., SHALL HAVE A TROWELED FINISH AND BE FLAT AND LEVEL

CIP10 WATERSTOPS:
- A. PROVIDE WATERSTOPS AT ALL SUBGRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUBGRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS AS INDICATED IN THE DOCUMENTS.

CIP11 PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS, JOISTS, WALLS AND SLABS (INCLUDING SLABS ON CARTON FORMS, IF APPLICABLE) IN ACCORDANCE WITH THE TYPICAL DETAILS.

CIP12 GRADE BEAMS AT DOCKS AND SIMILAR CONDITIONS (BOTH EXTERIOR AND INTERIOR) WHERE BACKFILL IS PLACED UP TO OR NEAR THE TOP OF THE BEAM OR WALL ON ONE SIDE AND THE GRADE ON THE OTHER SIDE OF THE BEAM OR WALL IS MORE THAN 2'-0" LOWER SHALL BE LATERALLY BRACED FROM THE LOW SIDE PRIOR TO PLACING THE FILL ON THE OTHER SIDE. THIS BRACING SHALL REMAIN UNTIL THE FLOOR SLAB AT THE TOP OF THE BEAM OR WALL HAS BEEN CONSTRUCTED AND HAS ATTAINED ITS SPECIFIED 28 DAY STRENGTH.

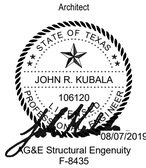
PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS
800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect



AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 001

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARPO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 1:58:44 PM

AG&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

EMBEDDED SHEAR-STUD CONNECTORS:

SC1 SHEAR-STUD CONNECTIONS SHALL BE NELSON FLUXED SHEAR CONNECTORS (SC) OR APPROVED EQUAL. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD. ALL STUD WELDS SHALL BE MANUFACTURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE NELSON STUD WELDING DIVISION, LORAIN, OHIO. SHEAR-STUDS SHALL BE MANUFACTURED OF C1015, C1017, OR C1020 COLD DRAWN STEEL CONFORMING TO ASTM A108.

POST-INSTALLED CONCRETE ANCHORS:

PA1 USE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBMIT SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CONTACT MANUFACTURE'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

PA2 POST INSTALLED CONCRETE ANCHORS SHALL BE OF SIZE, TYPE, AND QUANTITY AS NOTED ON DETAILS, AS MANUFACTURED BY HILTI, SIMPSON STRONG-TIE, OR POWERS ANCHOR SYSTEMS. NO OTHER MANUFACTURER IS PERMITTED. ANCHORS FROM ONLY ONE MANUFACTURER SHALL BE UTILIZED ON THE PROJECT.

PA3 HOLES IN CONNECTION PLATES FOR EXPANSION BOLTS SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF FIELD CONDITIONS OR TOLERANCES REQUIRE LARGER HOLES, PROVIDE PLATE WASHERS WITH BOLTS HOLES 1/16" LARGER THAN BOLT DIAMETER THAT ARE WELDED TO THE CONNECTION PLATE. THE CONTRACTOR SHALL SIZE THE PLATE WASHERS AND WELDS TO TRANSFER THE SHEAR AND TENSION CAPACITY OF THE EXPANSION BOLT.

PA4 INSTALL ALL POST INSTALLED BOLTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

PA5 PRIOR TO DRILLING FOR ANCHORS, A PACHOMETER OR ANOTHER APPROVED METHOD SHALL BE USED TO LOCATE EXISTING REINFORCING TO ENSURE THERE IS NO CONFLICT. IF A CONFLICT EXISTS, THE ANCHORS POSITION CAN BE ADJUSTED BY NO MORE THAN 1 INCH. IF A LARGER DEVIATION IS NECESSARY, CONTACT THE ENGINEER. ABANDONED OR UNUSED HOLES SHALL BE FILLED WITH EPOXY GROUT.

PA6 ONCE THE FINAL POSITION OF THE ANCHORS IS SET, TEMPLATES SHALL THEN BE UTILIZED TO TRANSFER THE FINAL LOCATION OF THE BOLT GROUP ON TO THE CONNECTION PLATE.

PA7 CONSTRUCTION OF POST INSTALLED ANCHORS REQUIRES CONTINUOUS INSPECTION BY THE TESTING LAB TO ENSURE PROPER EMBEDMENT AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

ARCHITECTURAL (NON-STRUCTURAL) CONCRETE UNIT MASONRY:

NSM1 REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF ARCHITECTURAL (NON-STRUCTURAL) MASONRY WALLS ON THE PROJECT.

NSM2 LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C331 WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 1,900 PSI. CONCRETE MASONRY UNITS SHALL BE COMPOSED OF LIGHTWEIGHT AGGREGATE.

NSM3 MORTAR SHALL CONFORM TO ASTM C270, TYPE "S", CEMENT-LIME MORTAR, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI. MASONRY CEMENT AND MORTAR CEMENT SHALL NOT BE USED.

NSM4 GROUT SHALL CONFORM TO ASTM C476, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

NSM5 MASONRY SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'm) OF 1,500 PSI.

NSM6 REINFORCING STEEL SHALL CONSIST OF DEFORMED GRADE 60 BARS CONFORMING TO ASTM A615. BARS SHALL BE NEW BILLET STEEL OF A DOMESTIC MANUFACTURE.

NSM7 GROUT SHALL BE MECHANICALLY CONSOLIDATED (VIBRATED), AND RECONSOLIDATED, USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.

NSM8 HORIZONTAL JOINT REINFORCEMENT SHALL BE STEEL WIRE (LADDER TYPE) AND SHALL CONFORM TO ASTM A951. JOINT REINFORCEMENT SHALL BE SPACED AT 16" OC VERTICALLY.

NSM9 CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.

NSM10 CONCRETE MASONRY UNITS LOCATED BELOW GRADE SHALL HAVE ALL CELLS FULLY GROUTED AND CONCRETE MASONRY UNITS LOCATED ABOVE GRADE SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE.

NSM11 INSTALL TEMPORARY BRACING AT ALL CMU WALLS. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE NON-STRUCTURAL STRUCTURE.

NSM12 REFER TO THE CMU WALL VERTICAL REINFORCING SCHEDULE FOR WALL REINFORCEMENT.

NSM13 REFER TO THE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT OPENINGS, CONTROL JOINTS, CORNERS AND ENDS OF WALL PANELS.

NSM14 PROVIDE HORIZONTAL REINFORCEMENT AS INDICATED IN THE CMU WALL REINFORCING DIAGRAM. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.

NSM15 MASONRY CONSTRUCTION REQUIRES SPECIAL INSPECTION. REFERENCE SPECIAL INSPECTION REQUIREMENTS ON THE INSPECTIONS SCHEDULE SHEET.

STRUCTURAL CONCRETE UNIT MASONRY:

CM1 THESE NOTES APPLY ONLY TO MASONRY INDICATED ON THE STRUCTURAL FRAMING PLANS. MASONRY NOT INDICATED ON THE STRUCTURAL FRAMING PLANS IS NOT PART OF THE STRUCTURAL FRAME AND IS CONSIDERED ARCHITECTURAL (NON-STRUCTURAL) MASONRY.
- A. HOWEVER, ARCHITECTURAL (NON-STRUCTURAL) MASONRY MAY ALSO REQUIRE REINFORCING AND REQUIREMENTS FOR THIS REINFORCING CAN BE FOUND AS FOLLOWS:
  1. ARCHITECTURAL (NON-STRUCTURAL) MASONRY VERTICAL REINFORCING:
     - a. REFER TO "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" IN THE STRUCTURAL DRAWINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
  2. ARCHITECTURAL (NON-STRUCTURAL) MASONRY HORIZONTAL REINFORCING (INCLUDING HORIZONTAL JOINT REINFORCING):
     - a. REFER TO THE TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS FOR HORIZONTAL REINFORCING IN LINTELS AND BOND BEAMS OVER WALL OPENINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

CM2 ALL STRUCTURAL MASONRY INDICATED ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS INCLUDING CLIP ANGLES, DOWELS, AND ADDITIONAL SECONDARY FRAMING MEMBERS ETC. INDICATED ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING.

CM3 PROVIDE MASONRY PRISM STRENGTH (F'M)= 2,000 PSI, MINIMUM.

CM4 HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C 90, LIGHTWEIGHT, GRADE N, TYPE I OR II, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI ON THE NET AREA OF THE BLOCK. UNLESS NOTED OTHERWISE, USE RUNNING BOND CONSTRUCTION.

CM5 MORTAR SHALL CONFORM TO ASTM C 270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME AND 3 1/2 TO 4 1/2 PARTS FINE AGGREGATE. DO NOT USE AIR ENTRAINING LIME, MASONRY CEMENT OR ADMIXTURES. MEASURE MATERIALS WITH A BATCHING BOX - DO NOT MEASURE MATERIALS WITH A SHOVEL.

CM6 COARSE GROUT SHALL CONFORM TO ASTM C 476, WITH A MAXIMUM FINE AGGREGATE SIZE OF 3/8", A MAXIMUM COARSE AGGREGATE SIZE OF 1/2" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 0 TO 1/10 PART LIME, 2 1/4 TO 3 PARTS FINE AGGREGATE AND 1 TO 2 PARTS COARSE AGGREGATE. SLUMP SHALL BE 8" TO 11".

CM7 FINE GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT AND 2 1/4 TO 3 PARTS FINE AGGREGATE.

CM8 REFER TO TYPICAL STRUCTURAL CMU WALL REINFORCING SCHEDULE FOR VERTICAL CMU WALL REINFORCING UNLESS NOTED OTHERWISE IN THE DRAWINGS. REFER TO TYPICAL MASONRY DIAGRAM FOR DOWELS BETWEEN FOUNDATION AND MASONRY WALLS AND OTHER REINFORCING.

CM9 HORIZONTAL WALL REINFORCING IN BOND BEAMS OR TROUGH BLOCK UNITS SHALL BE STRAIGHT, PLACED CONTINUOUSLY AND FULLY GROUTED IN PLACE. REFER TO SCHEDULES, SECTIONS AND DETAILS FOR SPECIFIED HORIZONTAL REINFORCING. SPLICE BARS WHERE REQUIRED PER TENSION LAP SCHEDULE FOR STEEL REINFORCING IN CMU MINIMUM, TYPICAL UNLESS NOTED OTHERWISE, AND TIE THEM WITH WIRE.

CM10 REFER TO SCHEDULES, SECTIONS AND DETAILS FOR REINFORCING IN GROUTED COLUMNS, PILASTERS AND BEAMS. CLEAR GROUT COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE 1".

CM11 CONTINUOUS HORIZONTAL JOINT REINFORCING:
- A. SINGLE WYTHE WALLS:
  1. CONTINUOUS HORIZONTAL WALL JOINT REINFORCING FOR SINGLE WYTHE WALLS SHALL BE GALVANIZED, **STANDARD,** TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- B. CAVITY WALLS:
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD, TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE") TIES, TRUSS TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- C. CAVITY WALLS WITH TOTAL THICKNESS GREATER THAN 1'-4".
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD,**TRUSS** TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE"), **TRUSS** TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- D. PROVIDE CONTINUITY AT CORNERS AND INTERSECTIONS WITH PREFABRICATED CORNER AND TEE UNITS.
- E. SPLICE STANDARD HORIZONTAL WALL JOINT WIRE REINFORCING 11" MINIMUM AND PROVIDE AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
- F. COVER FROM JOINT REINFORCING TO EDGE OF MORTAR SHALL BE 5/8".

CM12 PROVIDE SHOP DRAWINGS SHOWING DETAILS OF BENDING AND PLACEMENT OF MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF REINFORCED WALLS AT OPENINGS AND AT OTHER LOCATIONS WHERE THE SPECIFIED REINFORCING IS MORE INVOLVED THAN SIMPLE VERTICAL BARS AT A SPECIFIED SPACING.

CM13 UNGROUTED MASONRY WALL CELLS MAY BE REQUIRED TO BE FILLED WITH SAND, VERMICULITE OR PERLITE FOR FIRE RATING, SOUNDPROOFING OR OTHER PURPOSES. REFER TO THE ARCHITECTURAL DRAWINGS FOR THESE REQUIREMENTS.

CM14 WHERE NOT INDICATED IN THE STRUCTURAL DRAWINGS (EXCEPT AT GROUTED WIDE CAVITY WALLS), PROVIDE 3/8" VERTICAL THROUGH-WALL CONTROL JOINTS AT 5'-0" TO 12'-6" FROM CORNERS AND AT 25'-0" OC MAX. IN BETWEEN. THE ARCHITECTURAL DRAWINGS MAY INDICATE VERTICAL CONTROL JOINTS IN THE MASONRY FACADE AT EACH EDGE OF WALL OPENINGS. HOWEVER, CONTROL JOINTS IN THE BACKUP CMU SHALL NOT BE LOCATED WITHIN WALL OPENINGS, AT THE EDGE OF WALL OPENINGS OR WITHIN THE VERTICAL GROUTED CELLS AT EACH SIDE OF THE WALL OPENINGS, REGARDLESS OF WHERE THE CONTROL JOINTS ARE INDICATED IN THE ARCHITECTURAL DRAWINGS FOR THE MASONRY FACADE. COORDINATE JOINT LOCATIONS TO MISS BEAM AND JOIST BEARINGS. CUT ALL HORIZONTAL REINFORCING AT CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE GROUTED CELLS AND REINFORCING AT EACH SIDE OF THE JOINT THE SAME AS AT THE END OF THE WALL. SUBMIT JOINT LAYOUT TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING WALL CONSTRUCTION. FOR STRUCTURAL MASONRY WALLS THAT ARE SHOWN IN THE STRUCTURAL DRAWINGS, THIS CRITERIA FOR CONTROL JOINT LOCATIONS TAKES PRIORITY OVER JOINT LOCATIONS THAT MAY OR MAY NOT BE SHOWN IN THE ARCHITECTURAL DRAWINGS FOR STRUCTURAL MASONRY WALLS.

CM15 LIMIT GROUT POURS TO 12 FEET IN HEIGHT FOR 8" AND THICKER WALLS AND 5 FEET IN HEIGHT FOR 6" THICK WALLS. BETWEEN GROUT POURS, FORM CONSTRUCTION JOINT BY LEAVING GROUT 1 1/2 INCHES BELOW THE MORTAR JOINT (1/2 INCH AT BOND BEAMS).

CM16 CLEANOUTS ARE REQUIRED FOR GROUT POURS OVER 5 FT. PROVIDE CLEANOUTS IN THE BOTTOM COARSE OF THE GROUT POUR AT EVERY VERTICAL BAR MINIMUM. CLEANOUTS SHALL BE ON NON-FINISHED SIDE OF MASONRY CONSTRUCTION.

CM17 PROVIDE TEMPORARY LATERAL WALL BRACING AS REQUIRED UNTIL THE FLOOR AND ROOF CONSTRUCTION, INCLUDING ALL STRUCTURAL COMPONENTS, AT THE TOP AND THE BOTTOM OF THE WALLS HAVE BEEN COMPLETED.

CM18 THE FOLLOWING NOTES APPLY ONLY TO GROUTED CAVITY WALLS THAT USE BRICK/MASONRY BLOCKS AND JOINT REINFORCING AS A FORM FOR GROUTED COLUMNS, PILASTERS AND BEAMS WITHIN THE WALL.
- A. HORIZONTAL WALL JOINT REINFORCING FOR GROUTED CAVITY WALLS SHALL BE GALVANIZED **STANDARD, TRUSS TYPE** "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. BOTH CROSS RODS AND SIDE RODS SHALL BE 3/16" IN DIAMETER. DO NOT USE ADJUSTABLE JOINT REINFORCING IN GROUTED CAVITY WALLS.
- B. PROVIDE Z TIES BETWEEN BRICK/MASONRY BLOCKS AND GROUT. Z TIES SHALL BE 3/16" DIAMETER X10" (TOTAL LENGTH) COLD DRAWN GALVANIZED WIRE WITH 2" LEG AT EACH END, CONFORMING TO ASTM A 82 TYPICAL. UNLESS NOTED OTHERWISE. PLACE ONE LEG IN MORTAR JOINT PARALLEL TO AND AT 3/4" FROM OUTSIDE FACE OF THE BRICK AND THE OTHER LEG IN GROUT.
  1. PLACE Z TIES AT 16" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL BRICK SURFACES, TYPICAL, UNLESS NOTED OTHERWISE.
  2. AT LINTEL BEAMS, PLACE Z TIES AT 8" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL (BOTTOM) BRICK SURFACES. Z TIES SHALL BE HOOKED AROUND 1/4" DIAMETER GALVANIZED RODS LOCATED IN THE HOLES THROUGH THE BOTTOM BRICKS.
- C. PROVIDE WEEP HOLES AT 2'-8" OC (2 WEEP HOLES MINIMUM) THROUGH THE EXTERIOR WYTHE OF THE MASONRY/BRICK VERTICAL JOINTS OVER FOUNDATION BEAMS/WALLS, BOND BEAMS, LINTEL BEAMS AND ALL OTHER PLACES WHERE CAVITY IS CONTINUOUSLY BLOCKED.
- D. INSULATION, WHERE SPECIFIED IN THE ARCHITECTURAL DRAWINGS, SHALL BE PLACED IN THE CAVITY IN STRIPS BETWEEN HORIZONTAL WALL JOINT REINFORCING AND SHALL NOT BE PLACED INTO GROUTED COLUMNS, PILASTERS OR BEAMS.

STATEMENT OF SPECIAL INSPECTIONS:

SI1 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE WITH LOCAL AMENDMENTS. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS SERVICES APPLICABLE TO THIS PROJECT.

SI2 THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS, APPROVED BY THE BUILDING OFFICIAL, TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION IN ACCORDANCE WITH BUILDING CODE. SPECIAL INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES.

SI3 THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT REPORTS OF INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATED THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. INTERIM TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED ON A DAILY BASIS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.

SI4 IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE REQUIRED SPECIAL INSPECTIONS AND TESTS ARE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

SI5 ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS AND TESTING PER THE BUILDING CODE ARE NOT LISTED HERE. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

SI6 THE FOLLOWING SPECIAL INSPECTIONS AND TESTS SCHEDULE CONTAINS A LIST OF THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS AND/OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK. REFER TO THE GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.

SPECIAL INSPECTIONS AND TESTS SCHEDULE PER IBC 2015

CHECK IF APPLICABLE	MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK	SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION
☐	STRUCTURAL STEEL	1705.2
■	CONCRETE CONSTRUCTION	1705.3
■	MASONRY CONSTRUCTION	1705.4
☐	WOOD CONSTRUCTION	1705.5
■	SOILS	1705.6
☐	DRIVEN DEEP FOUNDATIONS	1705.7
☐	CAST-IN-PLACE DEEP FOUNDATIONS	1705.8
☐	HELICAL PILE FOUNDATIONS	1705.9
☐	FABRICATED ITEMS	1705.10
☐	SPECIAL INSPECTIONS FOR WIND RESISTANCE	1705.11
☐	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	1705.12
☐	TESTING FOR SEISMIC RESISTANCE	1705.13

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS
800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 002

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 1:58:44 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

STRUCTURAL SUBMITTALS

SPECIFICATION SECTION	ITEM	FOR INFORMATION ONLY	FOR APPROVAL	SIGNED AND SEALED
03 10 00	FORMWORK SHOP DRAWINGS	X		X
03 10 00	MANUFACTURER'S PRODUCT DATA		X	
03 10 00	CONSTRUCTION JOINT LAYOUT	X		
03 11 31	VOID FORM PRODUCT DATA		X	
03 20 00	STEEL REINFORCING SHOP DRAWINGS		X	
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS		X	
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS		X	
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	X		
03 20 00	QUALIFICATION DATA	X		
03 20 00	WELDING CERTIFICATES	X		
03 30 00	CONCRETE MIX DESIGN		X	
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE		X	
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS		X	
03 30 00	PRODUCT DATA	X		
03 30 00	QUALIFICATION DATA	X		
03 30 00	MATERIAL TEST REPORTS	X		
03 30 00	FLOOR SURFACE FLATNESS	X		
03 30 00	FIELD QUALITY CONTROL REPORTS	X		
03 30 00	MINUTES OF PREINSTALLATION CONFERENCE	X		
04 22 00	CMU WALL SHOP DRAWINGS		X	
04 22 00	MIX DESIGN (MORTAR AND GROUT)		X	
04 22 00	MASONRY COMPRESSIVE STRENGTH		X	
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION		X	
04 22 00	MATERIAL CERTIFICATES	X		
04 22 00	COLD/HOT WEATHER PROCEDURES	X		
04 22 00	QUALIFICATION DATA	X		
06 10 00	PRODUCT DATA	X		
06 10 00	FASTENER PATTERNS		X	
06 10 00	MATERIAL CERTIFICATES	X		
06 10 00	EVALUATION REPORTS	X		
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS		X	
31 63 29	PIER CONCRETE MIX DESIGN		X	
31 63 29	PIER DRILLING LOG	X		

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIERS'S ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.

2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.

4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.

5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

DESIGN LOADS & DESIGN DATA

1.	BUILDING CODE		2015 INTERNATIONAL BUILDING CODE (IBC) / ASCE/SEI 7-10 WITH LOCAL AMENDMENTS	
2.	GRAVITY LOADS & DESIGN DATA			
	A.	DEAD LOADS	SELF WEIGHT	
	B.	SNOW LOADS		
	1.	GROUND SNOW LOAD, P_g	0 PSF	
	2.	FLAT ROOF SNOW LOAD, P_f	0 PSF	
	3.	SNOW EXPOSURE FACTOR, C_e	0.9	
	4.	SNOW RISK CATEGORY	III	
	5.	SNOW LOAD IMPORTANCE FACTOR, I	1.1	
	6.	THERMAL FACTOR, C_t	1.2	
3.	LATERAL LOADS & DESIGN DATA			
	A.	WIND DESIGN DATA		
	1.	BASIC WIND SPEED, V	139 MPH (3-SECOND GUST)	
	2.	WIND RISK CATEGORY	III	
	3.	WIND IMPORTANCE FACTOR, I	1.0	
	4.	WIND EXPOSURE CATEGORY	C	
	5.	INTERNAL PRESSURE COEFFICIENT, GC_{pi}	±0.18	
	C.	SEISMIC DESIGN DATA		
	1.	SEISMIC RISK CATEGORY	III	
	2.	SEISMIC IMPORTANCE FACTOR, I	1.25	
	3.	SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_s	0.042g	
	4.	1-SEC PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_1	0.014g	
	5.	SITE CLASS	D	
	6.	SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.045g	
	7.	1-SEC PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{D1}	0.022g	
	8.	SEISMIC DESIGN CATEGORY	A	
	9.	RESPONSE MODIFICATION FACTOR, R	2	
	10.	SYSTEM OVERSTRENGTH FACTOR, Ω	2.5	
	11.	DEFLECTION AMPLIFICATION FACTOR, Cd	2	
	12.	SEISMIC RESPONSE COEFFICIENT, Cs	0.028	
	13.	DESIGN BASE SHEAR, V	0.028W	
	14.	BASIC SEISMIC FORCE-RESISTING SYSTEM	NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
	15.	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	
4.	DEFLECTION LIMITS			
	C.	MEMBERS SUPPORTING MASONRY		
	1.	LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	L/600 or 0.3-INCH	

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA MEMORIAL EARLY COLLEGE HIGH SCHOOL

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 004

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 1:58:44 PM

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 1:58:44 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

SYMBOLS LEGEND

TOS EL 115'-0"	LEVEL ELEVATION
EL 115'-0"	SPOT ELEVATION
	VERTICAL BRACE
	LOAD BEARING CMU WALL AND/OR SHEARWALL
	LOAD BEARING CONC WALL AND/OR SHEARWALL
	MATCHLINE
4 / S3.10 — DETAIL / SECTION DESIGNATION	DETAIL / SECTION REFERENCE CUT
4 / S3.10	PARTIAL PLAN OR PLAN DETAIL REFERENCE
1 / S-201	VERTICAL BRACE, SHEARWALL OR TRUSS ELEVATION REFERENCE
	SLOPE IN STRUCTURE, DROP IN STRUCTURE, RIDGES AND VALLEYS
RTU-1 — UNIT DESIGNATION PER MEP DRAWINGS REF SCHED FOR FULL OPERATING WEIGHT	MEP EQUIPMENT
*FACTORED TOTAL LOAD; JOIST DEPTH; DDCJ XXX / YYY / ZZZ; *FACTORED POST COMPOSITE LIVE LOAD; *FACTORED POST COMPOSITE DEAD LOAD; *NOTE: ALL JOIST GIRDER POINT LOADS HOWEVER ARE SERVICE LEVEL.	COMPOSITE JOIST (CJ) KEY
STEEL COLUMN; STEEL BEAM; DENOTES MOMENT CONNECTION (REF TYPICAL STEEL DETAILS FOR MOMENT CONN REQUIREMENTS)	MOMENT CONNECTION
HSS6x6x1/4 BP1; SPECIAL BASE PL TYPE; F1; 97'-0"; FOOTING TYPE; TOP OF FOOTING ELEVATION	COLUMN, BASE PLATE AND FOUNDATION MARK
W10X33 BP1; SPECIAL BASE PL TYPE; P1; 97'-0"; PIER TYPE; TOP OF PIER ELEVATION	
NUMBER OF HEADED SHEAR STUDS (IF REQD); STL BEAM SIZE; VERT BEAM REACTION IN KIPS; BEAM CAMBER (INCHES) (IF REQD); HORIZONTAL COLLECTOR / DRAG FORCE IN KIPS ON BOTH SIDES OF COLUMN (IF REQD); 15K W14x22 (20) C=3/4" 15K; H=15K; [-6"]; TO BEAM IF DIFFERENT FROM REFERENCE EL; COLLECTOR / DRAG CONNECTION (IF REQD)	STEEL BEAM KEY

1 SYMBOLS LEGEND
1/8" = 1'-0"

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LOC	LOCATION
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ARCH	ARCHITECTURAL	LWC	LIGHT WEIGHT CONCRETE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MC	MOMENT CONNECTION
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BL	BLOCK LINTEL	MIN	MINIMUM
BM	BEAM	MISC	MISCELLANEOUS
BO	BOTTOM OF	MO	MASONRY OPENING
BOS	BOTTOM OF STEEL	MTL	METAL
BOT	BOTTOM	NIC	NOT IN CONTRACT
BP	BASE PLATE	NO	NUMBER
BRG	BEARING	NS	NEAR SIDE
BTWN	BETWEEN	NTS	NOT TO SCALE
CGS	CENTROID OF TENDONS	NWC	NORMAL WEIGHT CONCRETE (150 PCF)
CIP	CAST IN PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OH	OPPOSITE HAND
CJP	COMPLETE JOINT PENETRATION	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PCC	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
CONN	CONNECTION	PT	POST-TENSIONING INSTITUTE
CONC	CONCRETE	PE	PROFESSIONAL ENGINEER
CONST	CONSTRUCTION	PEMB	PRE-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PENTR	PENETRATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DBA	DOWEL BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT
DL	DEAD LOADS	PP	PARTIAL PENETRATION
DT	DOUBLE TEE	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EDC	ELECTRICAL DISTRIBUTION CENTER	PT	POST-TENSIONING
EF	EACH FACE	QTY	QUANTITY
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RAF	RAISED ACCESS FLOOR
EJ	EXPANSION JOINT	REF	REFER TO
EL	ELEVATION	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
EQ	EQUAL	REV	REVERSE
EQUIV	EQUIVALENT	RO	ROUGH OPENING
EW	EACH WAY	RTU	ROOF TOP UNIT
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SE	STRUCTURAL ENGINEER
EXT	EXTERIOR	SHT	SHEET
FABR	FABRICATOR	SIM	SIMILAR
FDN	FOUNDATION	SJI	STEEL JOIST INSTITUTE
FF	FINISHED FLOOR	SOG	SLAB ON GRADE
FM	FACTORY MUTUAL	SPECS	SPECIFICATIONS
FRP	FIBER REINFORCED PLASTIC	STAG	STAGGERED
FS	FAR SIDE	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
FV	FIELD VERIFY	STRUC	STRUCTURAL
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TC	TRANSFER COLUMN
GR	GRADE	THK	THICKNESS
GYP BD	GYPSUM BOARD	TO	TOP OF
H	HEIGHT	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOF	TOP OF FOOTING
HSA	HEADED STUD ANCHOR	TOGB	TOP OF GRADE BEAM
IBC	INTERNATIONAL BUILDING CODE	TOM	TOP OF MASONRY
INFO	INFORMATION	TOP	TOP OF PAVING
INT	INTERIOR	TOS	TOP OF STEEL
ISO	ISOLATION	TOSC	TOP OF STRUCTURAL CONCRETE
IT	INVERTED TEE	TOW	TOP OF WALL
JBE	JOIST BEARING ELEVATION	TRANS	TRANSVERSE
JST	JOIST	T&S	TEMPERATURE AND SHRINKAGE
JT	JOINT	TYP	TYPICAL
KIP	1000 POUNDS	UL	UNDERWRITERS LABORATORIES
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
L	LENGTH	VERT	VERTICAL
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE	W	WIDTH
LB	POUNDS	WP	WORK POINT
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC

2 ABBREVIATION LEGEND
12" = 1'-0"

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
AG&E Structural Engenuity

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS
800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

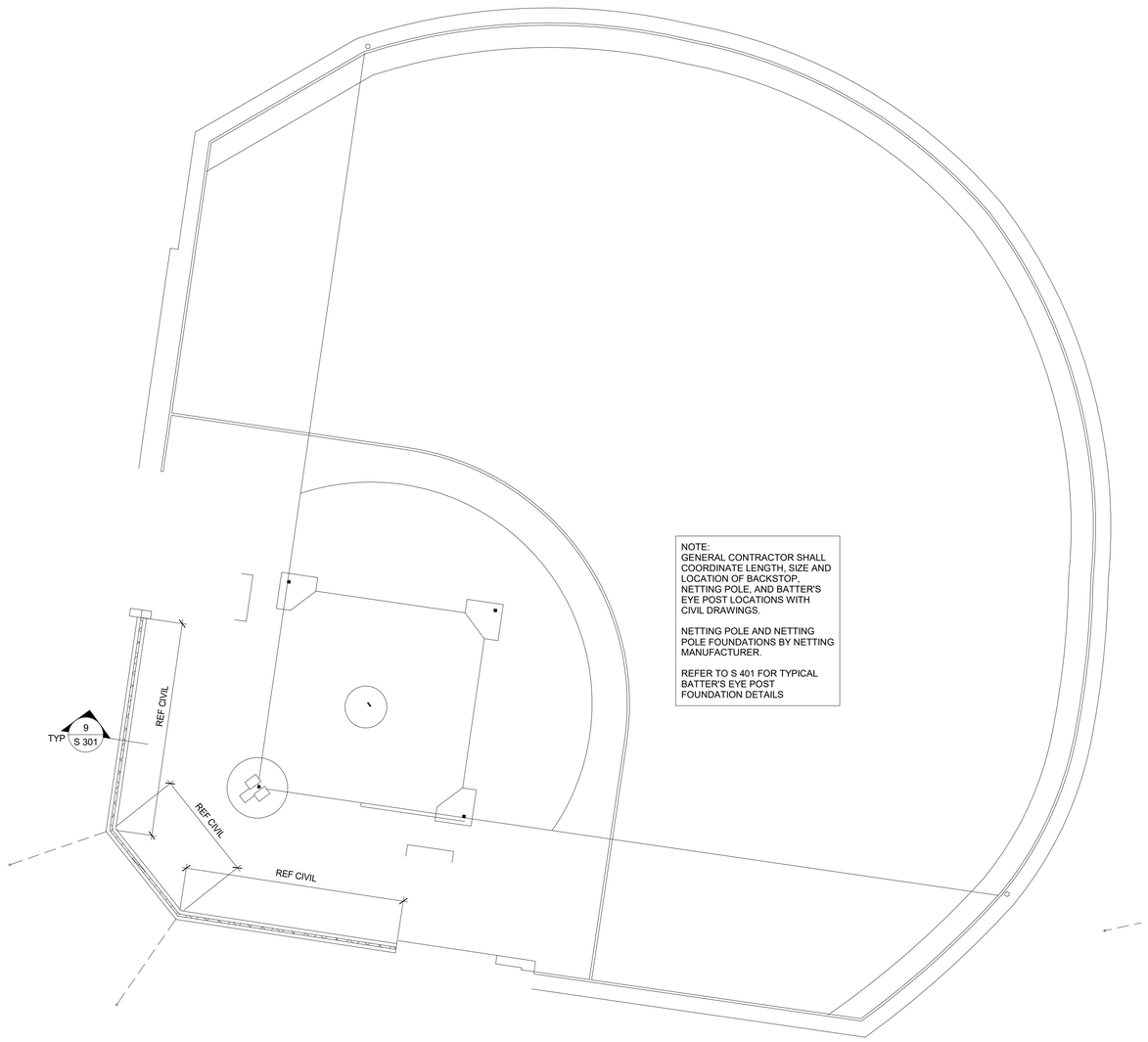
No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 005

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



NOTE:
GENERAL CONTRACTOR SHALL COORDINATE LENGTH, SIZE AND LOCATION OF BACKSTOP, NETTING POLE, AND BATTER'S EYE POST LOCATIONS WITH CIVIL DRAWINGS.

NETTING POLE AND NETTING POLE FOUNDATIONS BY NETTING MANUFACTURER.

REFER TO S 401 FOR TYPICAL BATTER'S EYE POST FOUNDATION DETAILS

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:

   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

1 MEMORIAL HIGH SCHOOL BASEBALL SITE PLAN
1" = 30'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

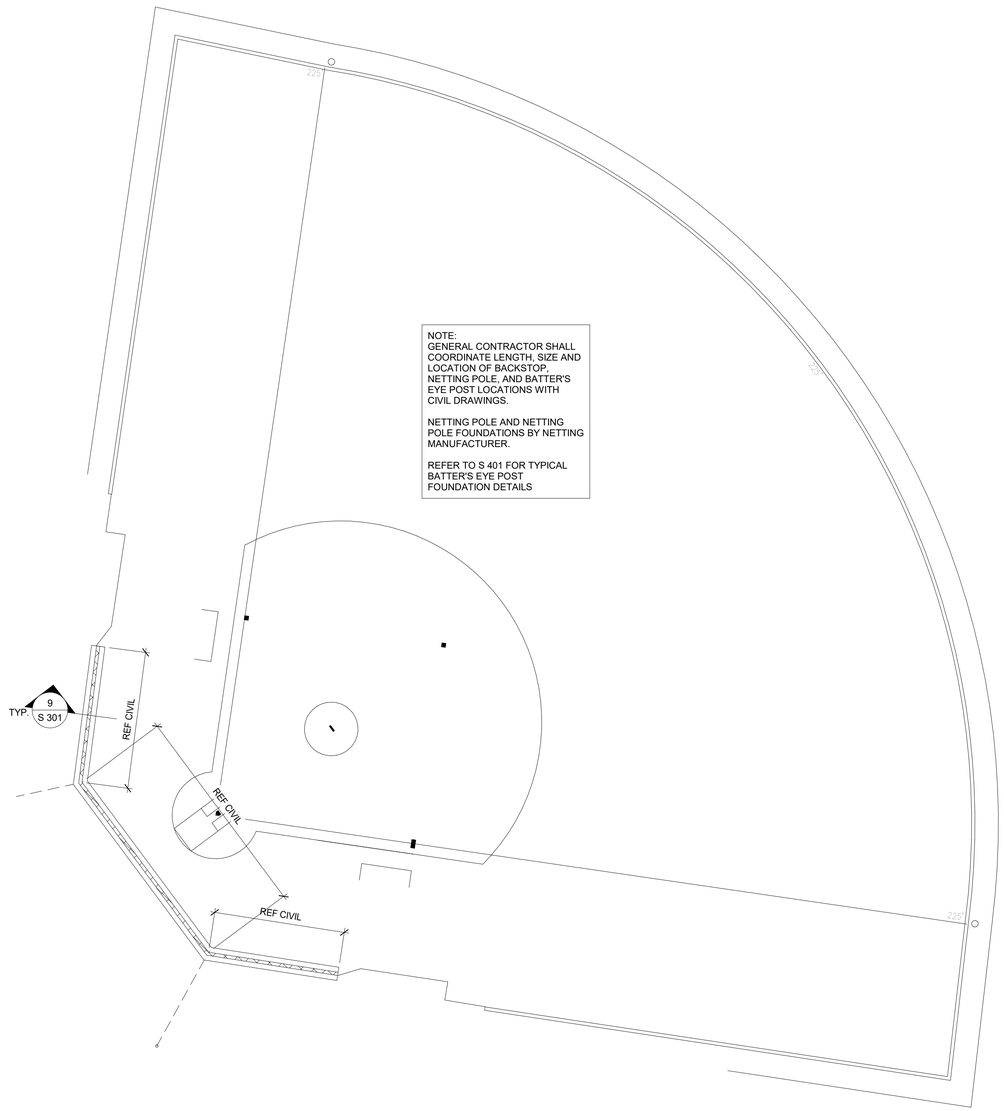
ISSUED FOR PROPOSAL

MEMORIAL HS
BASEBALL SITE PLAN

S 101

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 1:58:44 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



1 MEMORIAL HIGH SCHOOL SOFTBALL SITE PLAN
3/64" = 1'-0"

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

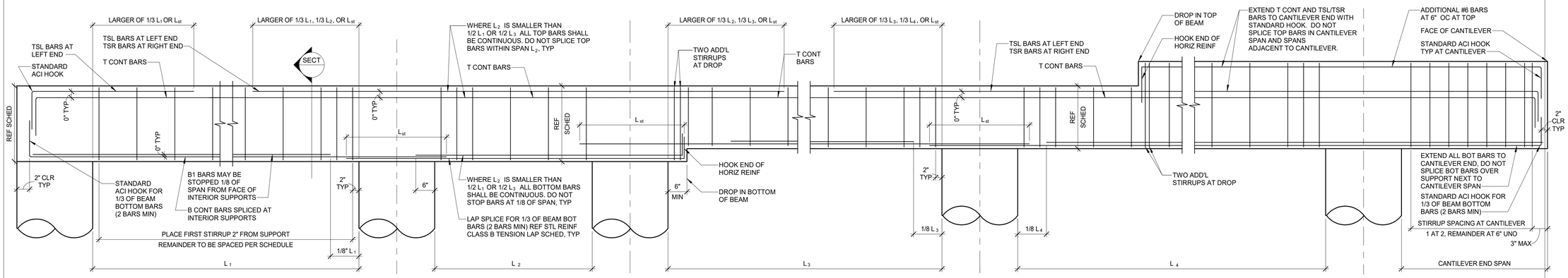
ISSUED FOR PROPOSAL

MEMORIAL HS
SOFTBALL SITE PLAN

S 201

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 1:58:44 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

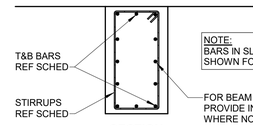


TYP END SUPPORT | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP CANTILEVER SUPPORT**

NOTES:

1. L_{st} = LAP SPLICE LENGTH - REF TYP STL REINF CLASS B TENSION LAP SCHED
2. SCHEDULED LEFT AND RIGHT END OF MEMBERS READ ON PLAN AS LEFT AND RIGHT OF THE SHEET OR BOTTOM AND TOP OF THE SHEET RESPECTIVELY AS SHOWN BELOW. SCHEDULED LEFT AND RIGHT END OF MEMBERS SHOWN DIAGONALLY ON PLAN READ AS LEFT AND RIGHT ON SHEET AS SHOWN BELOW:

3. T CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
4. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
5. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.



SECTION

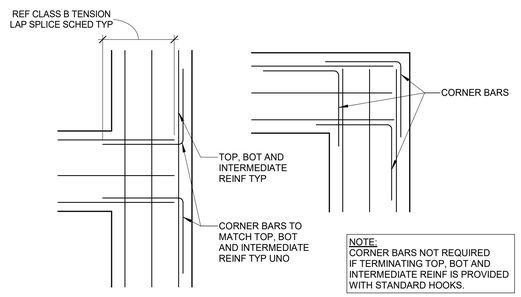
7 TYPICAL CONCRETE GRADE BEAM BAR PLACING DIAGRAM

3/4" = 1'-0"

PLAN

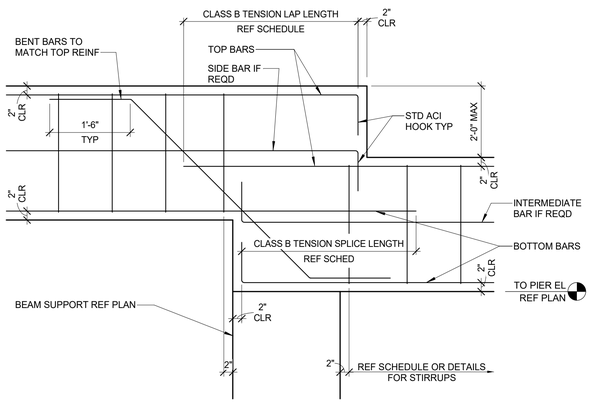
6 TYPICAL VERTICAL SLEEVES IN CONCRETE BEAMS

3/4" = 1'-0"



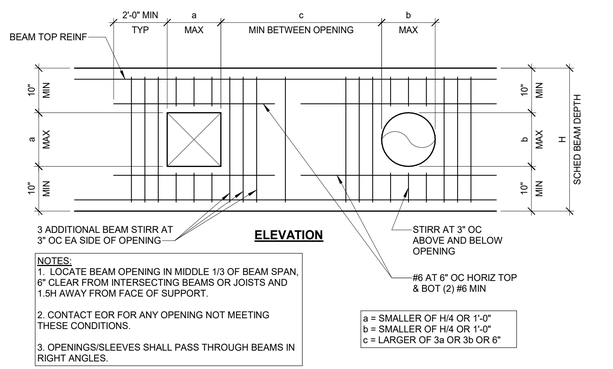
3 TYPICAL CORNER BAR REINFORCING

3/4" = 1'-0"



5 TYPICAL BEAM STEP

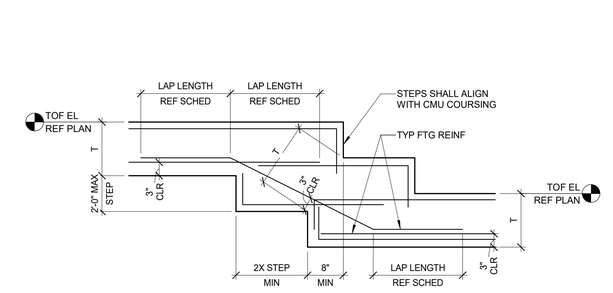
3/4" = 1'-0"



ELEVATION

4 TYPICAL HORIZONTAL OPENING IN BEAM

3/4" = 1'-0"



2 TYPICAL BEAM CONST JT

3/4" = 1'-0"

1 TYP FOOTING STEP

3/4" = 1'-0"

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

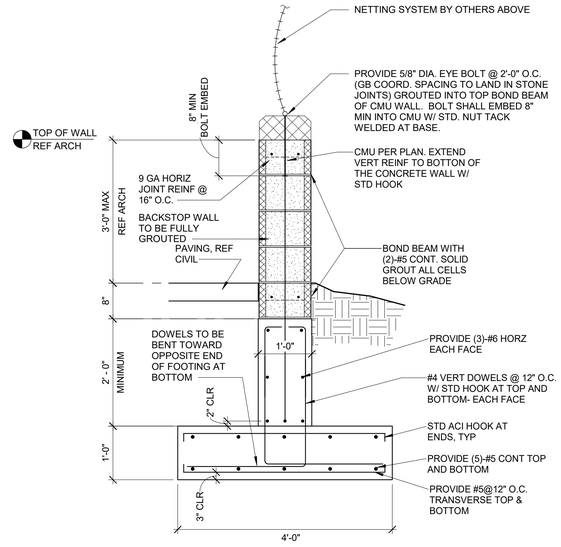
ISSUED FOR PROPOSAL

PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS

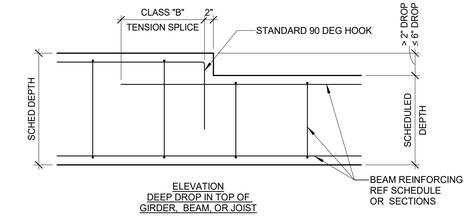
S 300

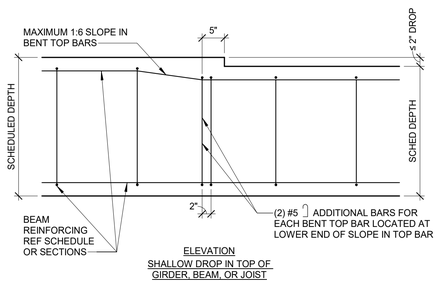
Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 1:58:44 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
PH: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

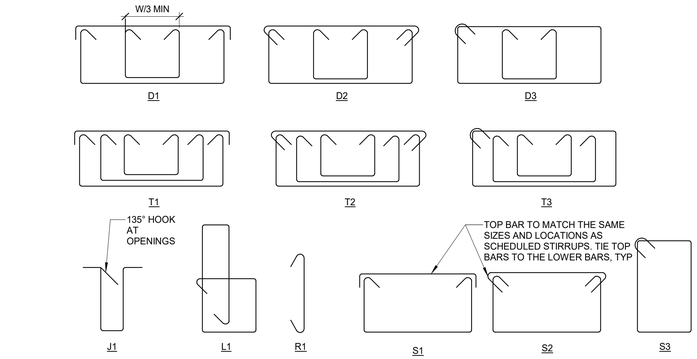


9 BACKSTOP DETAIL
3/4" = 1'-0"

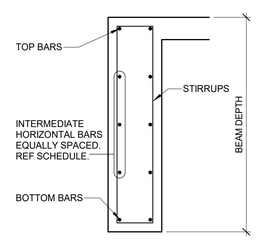




8 TYPICAL DETAIL OF REINFORCING AT SLAB/BEAM STEP
3/4" = 1'-0"



6 STIRRUP TYPES AT GRADE BEAMS
3/4" = 1'-0"



INTERMEDIATE BAR SCHEDULE

BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

NOTES:
1. ALTERNATE LAP SPLICE INTERMEDIATE BARS BETWEEN SUPPORT AND MIDSPAN. PROVIDE STANDARD ACI HOOK AT DISCONTINUOUS ENDS.
2. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE.
3. WHERE "EXTRA INTERMEDIATE BARS" ARE SCHEDULED, PROVIDE SCHEDULED BARS IN LIEU OF THOSE REQUIRED BY THIS DETAIL.

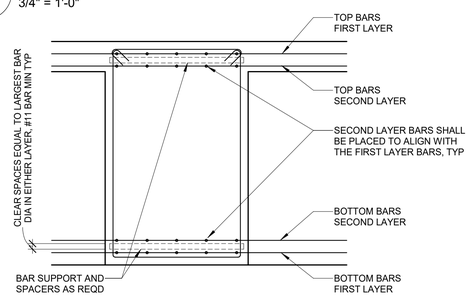
5 TYPICAL INTERMEDIATE BAR SCHEDULE
3/4" = 1'-0"

STEEL REINF CLASS B TENSION LAP SPLICE SCHEDULE L_{st}

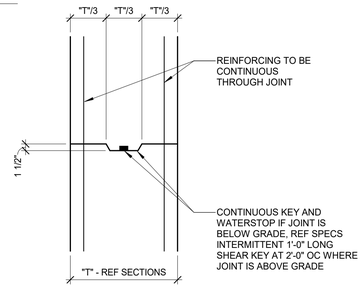
	3000 PSI CONC		4000 PSI CONC		5000 PSI CONC		6000 PSI CONC		7000 PSI CONC		8000 PSI CONC	
	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER
#6 AND SMALLER BARS	74db	57db	64db	50db	58db	44db	53db	41db	49db	38db	46db	35db
#7 TO #11 BARS	93db	71db	81db	62db	72db	55db	66db	51db	61db	47db	57db	44db

NOTES:
1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON EPOXY COATED REINFORCING.
2. TYPICAL IS FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 13".
3. FOR EPOXY COATED TYPICAL BARS, INCREASE SPLICE LENGTHS BY 31%. FOR EPOXY COATED OTHER BARS, INCREASE SPLICE LENGTHS BY 50%.
4. FOR LIGHTWEIGHT CONCRETE, INCREASE SPLICE LENGTHS BY 33%.
5. FOR GRADE 75 REBARS, INCREASE SPLICE LENGTHS BY 25%.
6. FOR #7 T0 #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, INCREASE SPLICE LENGTHS BY 50%.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFACTION FACTORS SHALL NOT BE LESS THAN 12".

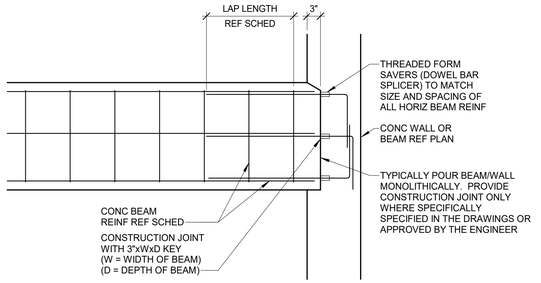
7 TYPICAL STEEL REINF CLASS B TENSION LAP SCHEDULE
3/4" = 1'-0"



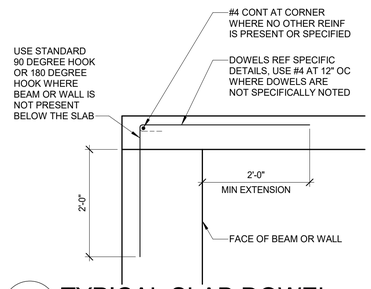
4 TYPICAL DETAIL OF MULTIPLE LAYERS OF BEAM REINFORCING
3/4" = 1'-0"



3 TYPICAL HORIZONTAL CONSTRUCTION JOINT IN WALL OR BEAM
3/4" = 1'-0"



2 CONCRETE BEAM CONNECTION TO WALL OR BEAM
3/4" = 1'-0"



1 TYPICAL SLAB DOWEL
3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

TYPICAL FOUNDATION DETAILS

S 301

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 1:58:44 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU	
BAR SIZE	LAP SPLICE LENGTH (INCHES)
3	19
4	34
5	45
6	54
7	63
8	72
9	82

NOTES:
1. FOR GRADE 60 NON-EPOXY COATED REINFORCING.
2. FOR EPOXY COATED REINFORCING, INCREASE TABULATED LENGTHS BY 50%.

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU

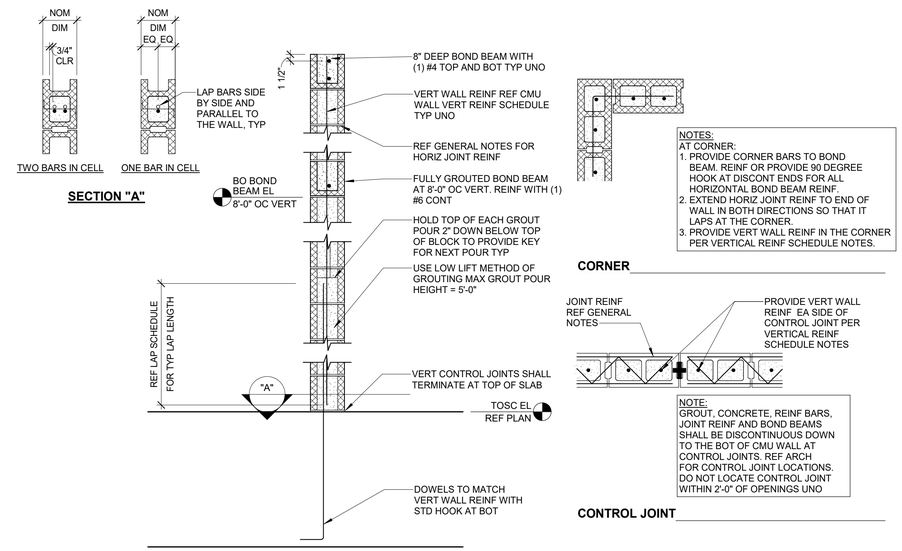
3 — 12" = 1'-0"

STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE		
WALL DESIGNATION	MAX UNBRACED WALL HEIGHT	EXTERIOR WALL VERTICAL REINF
12" CMU	3'-0"	#6 AT 16" OC

1. THIS SCHEDULE ONLY APPLIES TO CMU WALLS SHOWN AND DESIGNATED ON THE STRUCTURAL FRAMING PLANS. CMU WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS ARE NOT PART OF THE STRUCTURAL FRAME AND ARE CONSIDERED NON-STRUCTURAL CMU.
2. REFER TO THE "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" ON THIS SHEET FOR MINIMUM REQUIRED REINFORCING AT ARCHITECTURAL (NON STRUCTURAL) CMU WALLS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS. REFER TO "TYPICAL WALL REINFORCING DIAGRAM" FOR ADDITIONAL INFORMATION.
4. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEEN INSTALLED AND CONNECTED TO THE STEEL FRAMING.
5. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
6. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
7. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
8. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
9. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

TYPICAL STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE

1A — 3/4" = 1'-0"



TYPICAL CMU WALL REINFORCING DIAGRAM

1 — 3/4" = 1'-0"

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

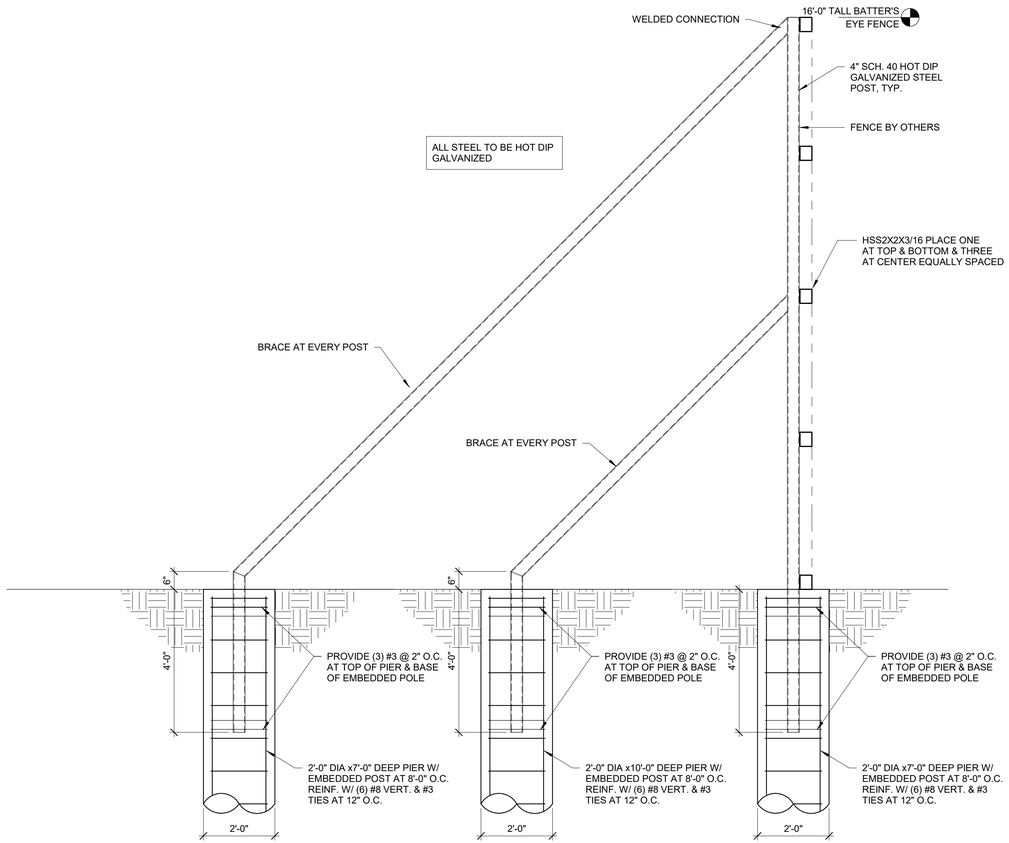
ISSUED FOR PROPOSAL

TYPICAL CMU DETAILS AND SCHEDULES

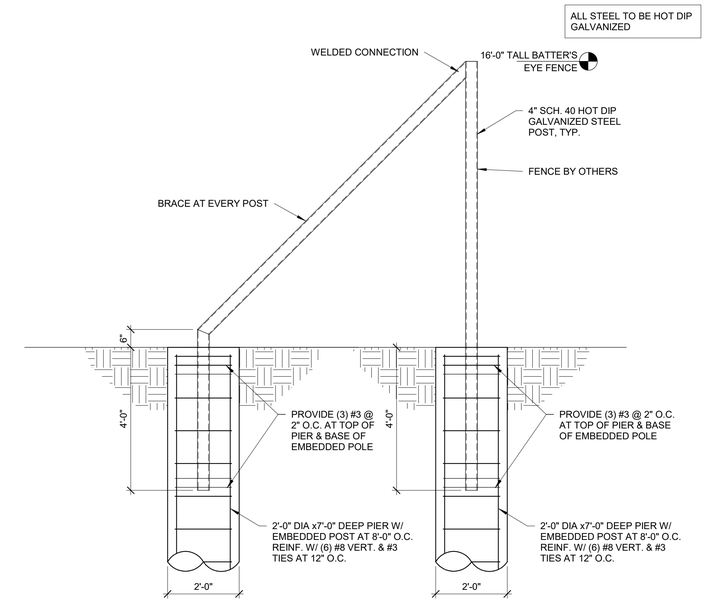
S 400

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 1:58:44 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

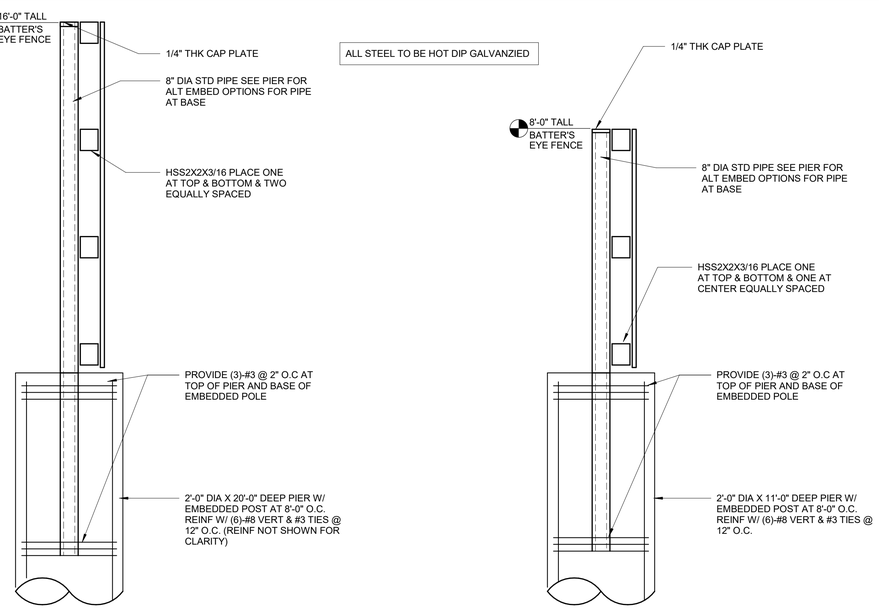
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



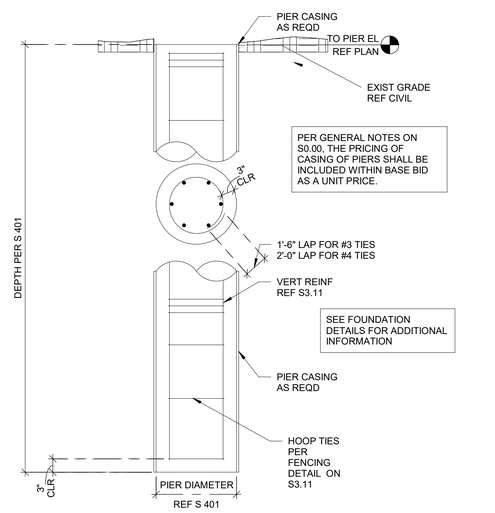
4 16FT TALL FENCE POST ELEVATION - ALTERNATE
1/2" = 1'-0"



3 8FT TALL FENCE POST ELEVATION - ALTERNATE
1/2" = 1'-0"



2 TYPICAL FENCING ELEVATION
3/4" = 1'-0"



1 FENCING STRAIGHT SHAFT DETAIL
3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELDS
PSJA MEMORIAL ECHS

800 S. ALAMO ROAD
ALAMO, TX 78516

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

FOUNDATION DETAILS AND ELEVATIONS

S 401

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Memorial High School\CS-MEMORIAL TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 1:58:44 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PHARR-SAN JUAN-ALAMO ISD

PSJA SOUTHWEST ECHS

SOFTBALL AND BASEBALL FIELD UPGRADES

August 7, 2019



BOARD OF TRUSTEES

PRESIDENT	VICE PRESIDENT	SECRETARY-TREASURER	ASSISTANT SECRETARY-TRESURER	MEMBER	MEMBER	MEMBER	SUPERINTENDENT
JESUS "JESSE" ZAMBRANO	JORGE "GEORGE" PALACIOS	JORGE ZAMBRANO	RICARDO "RICK" PEDRAZA	VICTOR PEREZ	JESUS "JESSE" VELA, JR.	CARLOS G. VILLEGAS, JR	DANIEL P. KING, PhD

OWNER / PROJ. MAN.

PSJA ISD ADMINISTRATION BUILDING
CONTACT:
601 E. KELLY
PHARR, TEXAS 78577
936-354-2000 P

ENGINEER

PBK ENGINEERS
CONTACT: TREY SCHNEIDER
11 GREENWAY PLAZA
22ND FLOOR
HOUSTON, TX 77046
713-965-0608 P
713-961-4571 F

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES
500 E NOLANA LOOP
PHARR, TX 78577
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

CA 000

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SPID\v6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 000 COVER SHEET.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 8:46:59 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwg\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 001 INDEX, NOTES AND LEGENDS.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:59:27 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE JOBSITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
6. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
7. TOPOGRAPHIC SURVEY BY: RIO DELTA SURVEYING
   TBPLS FIRM # 10013900
   24593 FM 88
   MONTE ALTO, TX 78538
   P: 956-262-0222 P: 956-380-5154
8. BENCHMARK: SEE SURVEY
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT, HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO INSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT HIS EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED. (800) 344-8377.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR SHALL COORDINATE THE RELOCATION AND PAY ANY FEES.
20. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS.
21. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
22. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
23. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

UTILITY NOTES

24. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
25. HE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
26. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
27. BEDDING AND BACKFILL SHALL BE SUBSIDIARY TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL WATER AND SEWER MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIALS AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE CONTRACTOR SHALL REPLACE THE DEFECTIVE MATERIAL WITH SOUND MATERIAL AT HIS OWN EXPENSE.
29. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
30. ALL STORM SEWER TO BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR / SMOOTH INTERIOR PIPE WITH WATER TIGHT JOINTS PER ASTM D 3212 UNLESS OTHERWISE OR SPECIFICALLY NOTED.
31. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS / SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE.
32. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" (SIX INCHES) VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND AT STORM SEWER AND SANITARY SEWER CROSSINGS, AND A MINIMUM OF 12" (TWELVE INCHES) VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
33. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
34. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED AT HIS EXPENSE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND/OR AS DIRECTED BY THE ENGINEER.

UTILITY NOTES

36. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
37. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
38. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
39. THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL AN INCIDENTAL AMOUNT FOR THE SAW CUTTING, REMOVAL AND REPLACEMENT OF PAVEMENT AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING PAVEMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT TYPE, THICKNESS AND GRADES.
40. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND WORK UPSTREAM. THE CONTRACTOR SHALL ALSO VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. PIPE SHALL BE INSTALLED WITH THE BELLS AT THE UPSTREAM END.
41. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL (800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
42. CAUTION: UNDERGROUND GAS FACILITIES
    GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 OR (800) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED
    * WHEN GAS LINE MARKINGS ARE NOT VISIBLE CALL (713) 967-8037 (7:00 AM-4:30 PM)
    FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
    * WHEN EXCAVATING WITHIN 18" OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
    * WHEN GAS FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

    THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
43. WARNING: OVERHEAD ELECTRICAL FACILITIES
    OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN 6' OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY 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 REMOVED CALL POWER COMPANY AT (713) 207-2222 (CENTERPOINT).

    WARNING: UNDERGROUND ELECTRICAL FACILITIES
    UNDERGROUND ELECTRICAL FACILITIES MAY EXIST ON THE PROPERTY. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL THE UCC AT 811, OR TOLL FREE AT (800) 669-8344, TO VERIFY THAT NO UNDERGROUND FACILITIES EXIST.
44. ALL UNDERGROUND PIPE SHALL HAVE A 12 GAUGE METALLIC TRACER WIRE RUNNING THE FULL LENGTH OF THE PIPE. TRACER WIRE SHALL BE TAPED TO THE PIPE AT INTERVALS NOT TO EXCEED 15 FEET USING DUCT TAPE.

PAVING AND GRADING NOTES

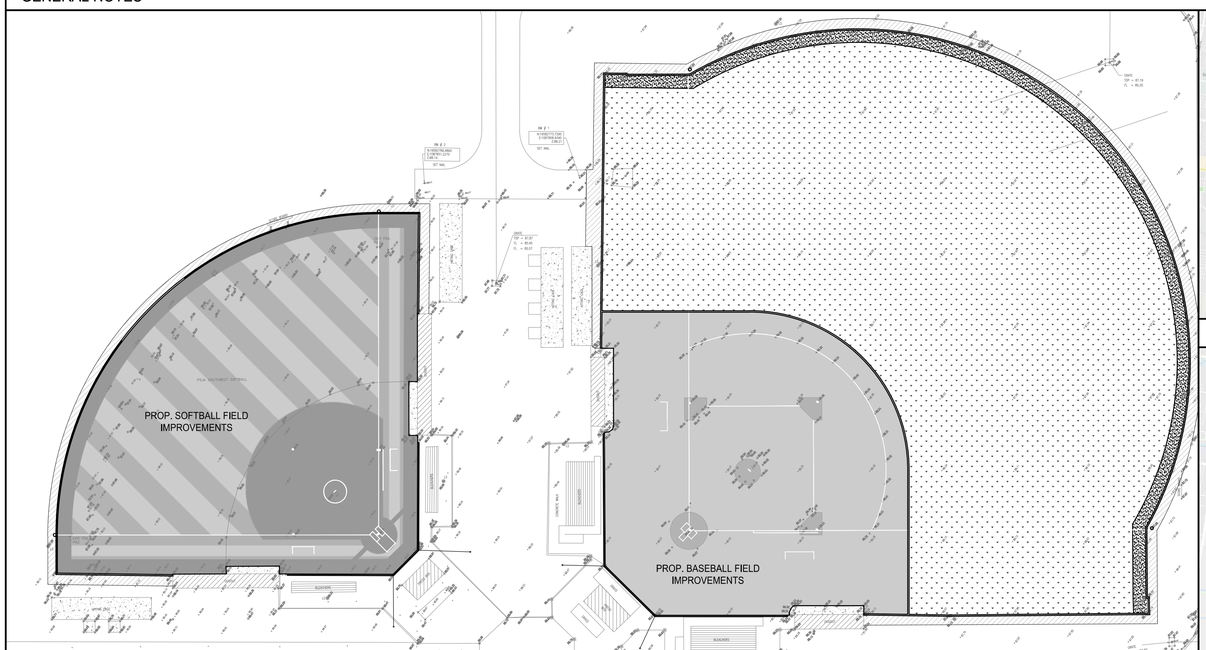
45. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
46. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
47. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
48. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
50. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
51. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
52. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED, REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
53. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, INSTALL 3/4" SMOOTH DOWELS, (18" LONG AND 18" C-C), BY DRILLING 8" INTO THE CENTER OF THE EXISTING SLAB AND EMBEDDING WITH EPOXY. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
54. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
55. SECURE PRECAST CONCRETE WHEEL STOPS BY DRILLING AND SETTING #4 DOWELS INTO PAVEMENT.
56. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
57. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL NEW CURBS, DRIVES, MOW STRIPS AND /OR WALKS.
58. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
59. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.

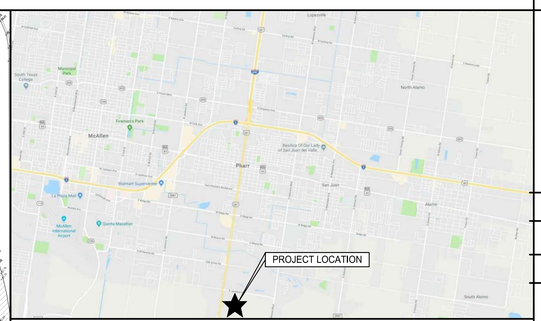
CIVIL LEGEND

201	PROPOSED CONTOUR
	PROPOSED CATCH BASIN (C-1)
	PROPOSED "A" INLET (A-1)
	PROPOSED "E" INLET (E-1)
	PROPOSED STORM MANHOLE W/ GRATE TOP
	PROPOSED MANHOLE
	PROPOSED H-2 OR JUNCTION BOX INLET
	GATE VALVE & BOX
	PIPE SLEEVES
	PROP. 45° EL
	TAPPING SLEEVE & VALVE
TC	TOP OF CURB ELEVATION
TP	TOP OF PAVEMENT ELEVATION
TG	TOP OF GRATE ELEVATION
TR	TOP OF RIM (MANHOLE)
FG	FINISH GRADE ELEVATION
FL	FLOWLINE ELEVATION
TFL	THROAT FLOWLINE ELEVATION ("E" INLET)
FH	FIRE HYDRANT
MH	MANHOLE
CO	CLEAN OUT
DCO	DOUBLE CLEAN OUT
DS	DOWNSPOUT COLLECTOR
NIC	NOT IN CONTRACT
RD	ROOF DRAIN COLLECTOR
GV	GATE VALVE
STM	STORM SEWER
SAN	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
FFF	FILTER FABRIC FENCE
RFB	REINFORCED FABRIC BARRIER
IPB	INLET PROTECTION BARRIER
X	EXPANSION JOINT
L	LONGITUDINAL CONSTRUCTION JOINT
LT	LONGITUDINAL-TIED CONSTRUCTION JOINT
T	TRANSVERSE CONTRACTION JOINT
S	SAWED PAVEMENT JOINT
UE	UTILITY EASEMENT
SSE	SANITARY SEWER EASEMENT
EP	EDGE OF PAVEMENT
HB	HIGH BANK OF DITCH
CL	CENTERLINE OF DITCH
PP	POWER POLE
GW	GUY WIRE
GM	GAS METER
PB	PHONE BOX
FC	FENCE CORNER
CB	CABLE BOX
NG	NATURAL GROUND
+	EXISTING ELEVATION
+ TP XX.XX	PROPOSED ELEVATION

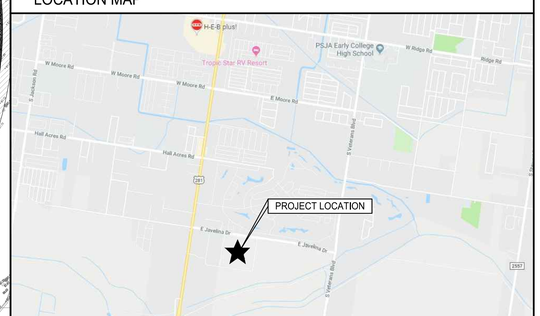
GENERAL NOTES

SITE PLAN





LOCATION MAP



VICINITY MAP

PROJECT NAME:
PSJA SOUTHWEST EARLY COLLEGE HIGH SCHOOL SYNTHETIC TURF BASEBALL INFIELD AND SOFTBALL FIELD

LEGAL DESCRIPTION:
KELLY PHARR TRACT
LOT 254 ABST K240000

PHYSICAL ADDRESS:
300 E. JAVELINA DR.
PHARR, TX 78577

PERMITTING INFORMATION

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGEND
CA 002	BASEBALL SURVEY (FOR INFORMATION ONLY)
CA 003	SOFTBALL SURVEY (FOR INFORMATION ONLY)
CA 003	EROSION CONTROL PLAN
CA 100	BASEBALL DEMOLITION PLAN
CA 101	BASEBALL SITE PLAN
CA 102	BASEBALL DRAINAGE AND UTILITY PLAN
CA 103	BASEBALL SUBGRADE GRADING PLAN
CA 104	BASEBALL FINISH GRADING PLAN
CA 105	BASEBALL IRRIGATION PLAN
CA 106	BASEBALL DETAILS
CA 107	BASEBALL DETAILS
CA 108	BASEBALL DETAILS
CA 200	SOFTBALL DEMOLITION PLAN
CA 201	SOFTBALL SITE PLAN
CA 202	SOFTBALL DRAINAGE AND UTILITY PLAN
CA 203	SOFTBALL SUBGRADE GRADING PLAN
CA 204	SOFTBALL STONE GRADING PLAN
CA 205	SOFTBALL IRRIGATION PLAN
CA 206	SOFTBALL DETAILS
CA 207	SOFTBALL DETAILS
CA 208	SOFTBALL DETAILS
CA 209	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 103	SOUTHWEST HS BASEBALL SITE PLAN
S 203	SOUTHWEST HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

INDEX OF DRAWINGS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

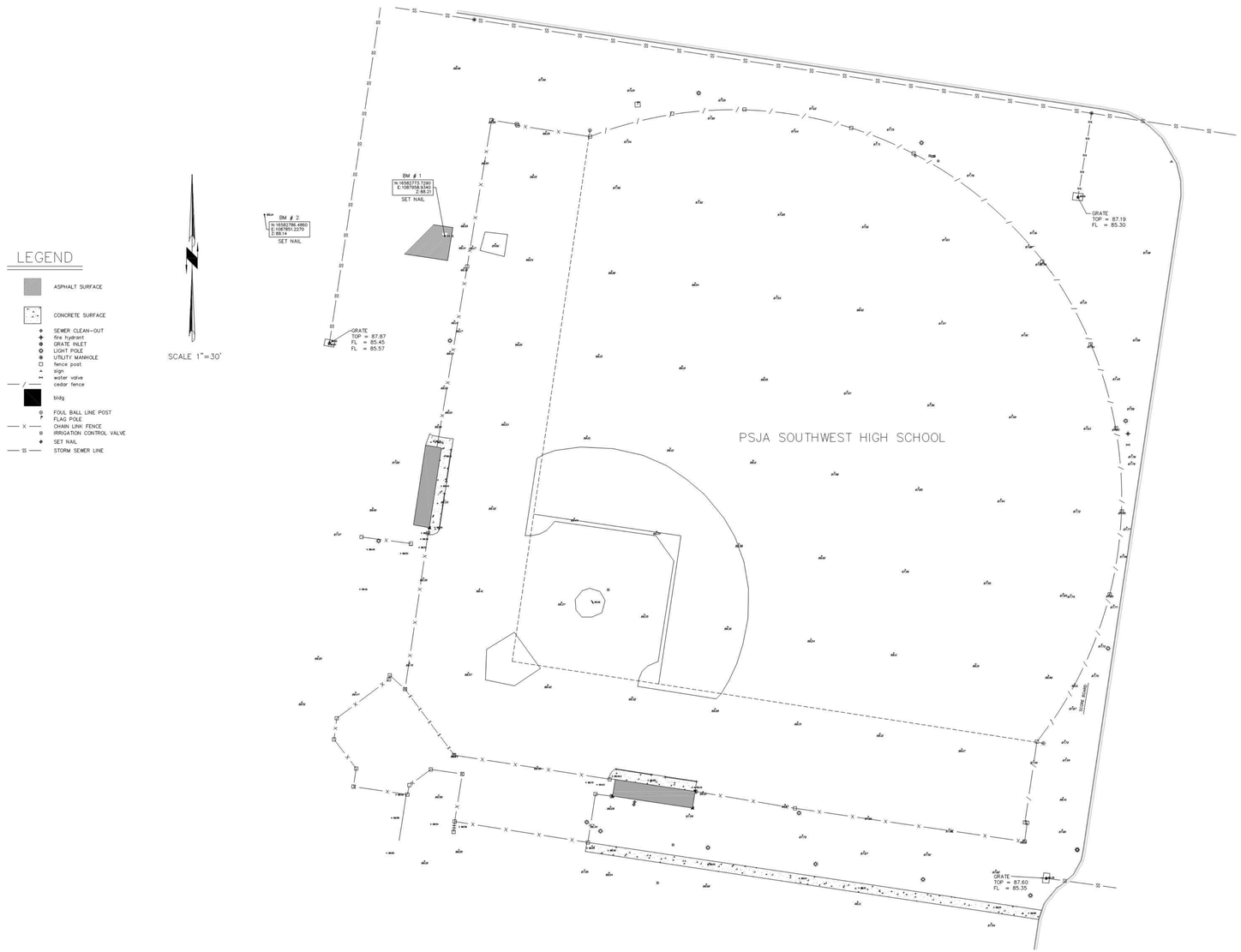
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

INDEX, NOTES AND LEGEND

CA 001



EXISTING CONDITIONS AT PSJA-SOUTHWEST HIGH SCHOOL BASEBALL FIELD

STATE OF TEXAS
REGISTERED
JOSE MARIO GONZALEZ
5571
PROFESSIONAL
SURVEYOR

06-28-2019

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

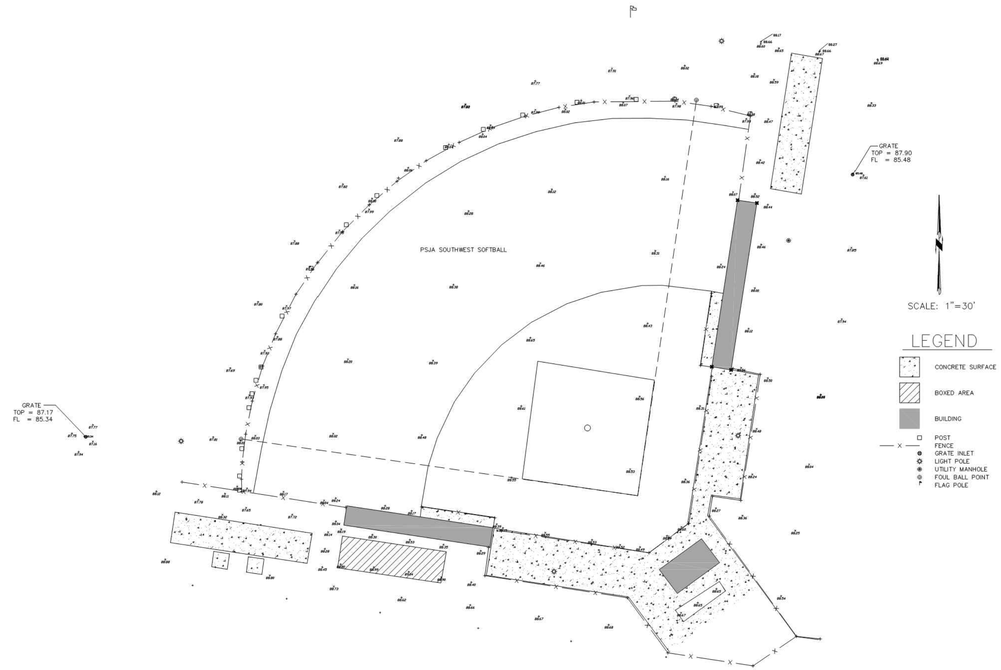
ISSUE FOR PROPOSALS

BASEBALL SURVEY (FOR INFORMATION ONLY)

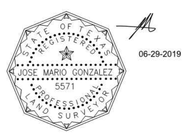
CA 002

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 002 BASEBALL SURVEY (FOR INFORMATION ONLY).dwg Last Saved: IGARCIA
Wednesday, August 7, 2019 9:02:30 AM



EXISTING CONDITIONS AT PSJA-SOUTHWEST HIGH SCHOOL SOFTBALL FIELD



06-29-2019

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

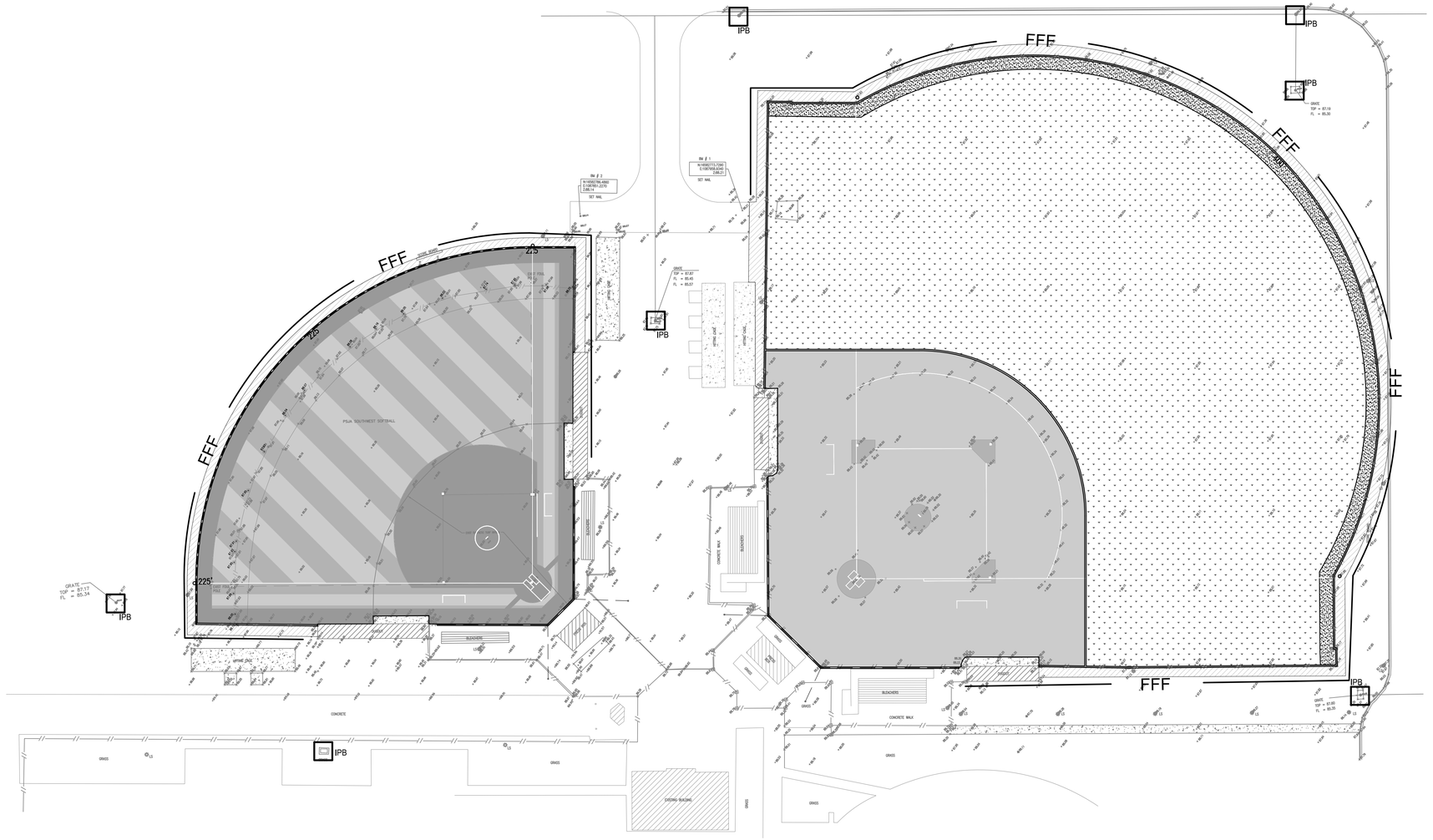
ISSUE FOR PROPOSALS

SOFTBALL SURVEY (FOR INFORMATION ONLY)

CA 003

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 003 SOFTBALL SURVEY (FOR INFORMATION ONLY).dwg Last Saved: IGARCIA
Wednesday, August 7, 2019 9:02:39 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



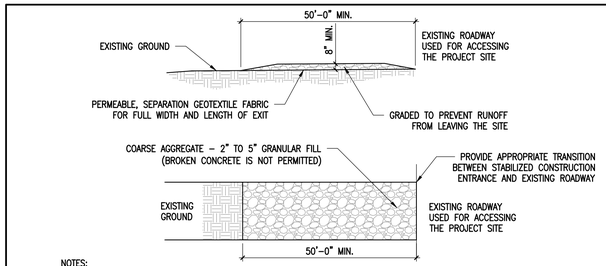
NORTH

20 40
40 0 80

LEGEND

IPB — INLET PROTECTION BARRIER

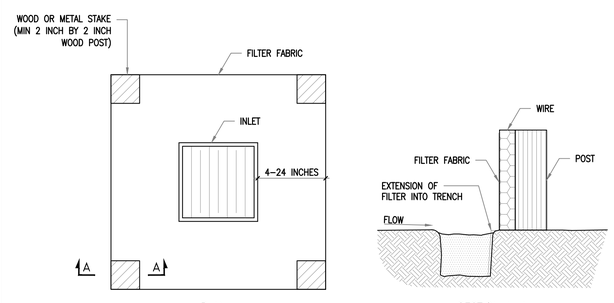
FFF — FILTER FABRIC FENCE



NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:
   - CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   - WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   - STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

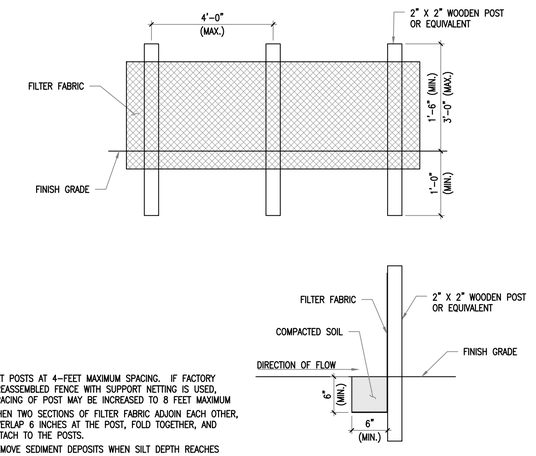
3 | STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION NOTES

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

2 | SILT FENCE INLET PROTECTION BARRIER (IPB)



NOTES:

1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

1 | FILTER FABRIC FENCE (FFF)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

EROSION CONTROL PLAN

CA 004

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 004 EROSION CONTROL PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:51:10 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

REMOVE EXISTING FOUL POLE

EXIST FOUL POLE

EXISTING CHAINLINK FENCE TO REMAIN

EXIST OUTFIELD FENCE TO REMAIN

GRATE
TOP = 87.19
FL = 85.30

BM # 1
N:16582773.7290
E:1087958.9340
Z:88.21
SET NAIL

REMOVE EXISTING WARNING TRACK

10'

REMOVE EXISTING SOD, ROOTZONE MATERIAL AND IRRIGATION SYSTEM WITHIN THE PROPOSED NATURAL TURF EXTENTS TO THE PROPOSED SUBGRADE ELEVATIONS.

GRATE
TOP = 87.87
FL = 85.45
FL = 85.57

HITTING CAGE

HITTING CAGE

PSJA SOUTHWEST HIGH SCHOOL

EXIST CHAINLINK FENCE TO REMAIN

REMOVE EXISTING SKINNED DIRT

DUGOUT

EXIST DUGOUT AND APRON TO REMAIN

REMOVE BACKSTOP TO END OF DUGOUT (ALTERNATE)

EXIST BASES AND PLATES TO BE SALVAGED FOR THE OWNER

REMOVE EXISTING CLAY MOUND

REMOVE EXISTING SKINNED DIRT

CONCRETE WALK

BLEACHERS

REMOVE EXISTING CHAINLINK BACKSTOP (ALTERNATE #1)

REMOVE EXISTING SOD, ROOTZONE MATERIAL AND IRRIGATION SYSTEM WITHIN THE PROPOSED SYNTHETIC TURF EXTENTS TO THE PROPOSED SUBGRADE ELEVATIONS.

EXIST CHAINLINK FENCE TO REMAIN

EXIST DUGOUT AND APRON TO REMAIN

DUGOUT

REMOVE BACKSTOP TO END OF DUGOUT (ALTERNATE #1)

BLEACHERS

GRASS

CONCRETE WALK

REMOVE EXISTING FOUL POLE

EXIST FOUL POLE

SCORE BOARD

EXISTING CHAINLINK FENCE TO REMAIN

GRATE
TOP = 87.60
FL = 85.35

NORTH

10 0 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF THE PROPOSED SYNTHETIC TURF REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

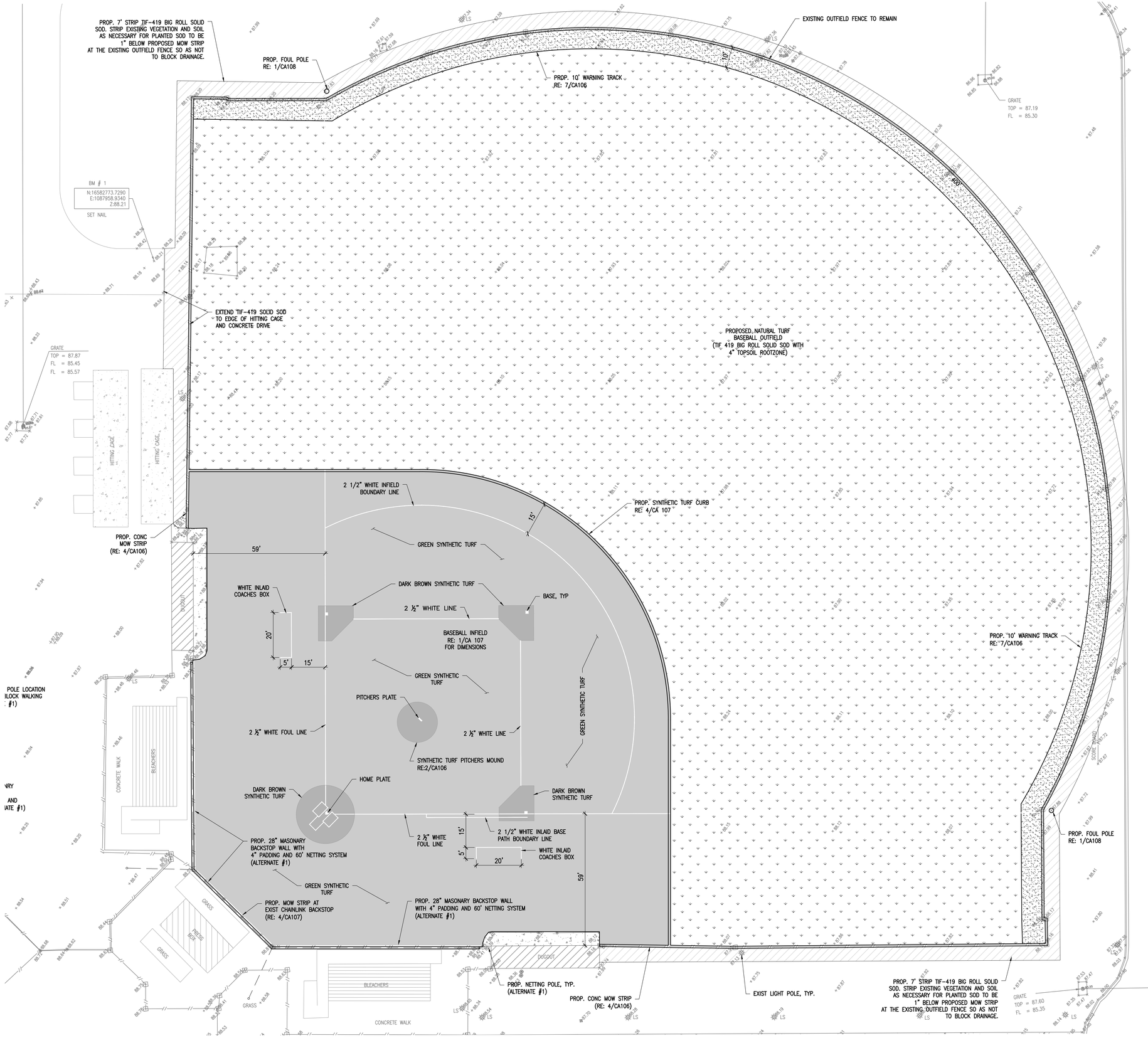
ISSUE FOR PROPOSALS

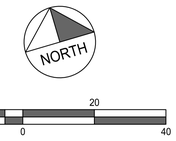
BASEBALL DEMOLITION PLAN

CA 100

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 100 BASEBALL DEMOLITION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:51:51 AM

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
: TOP
TE





NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING.
7. COORDINATE POSITION OF BACKSTOP NETTING POLES SO AS NOT TO BLOCK ANY WALKING PATH OF CONFLICT WITH ANY UTILITY.

ALTERNATES

ALTERNATE #1: PROVIDE 28" MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

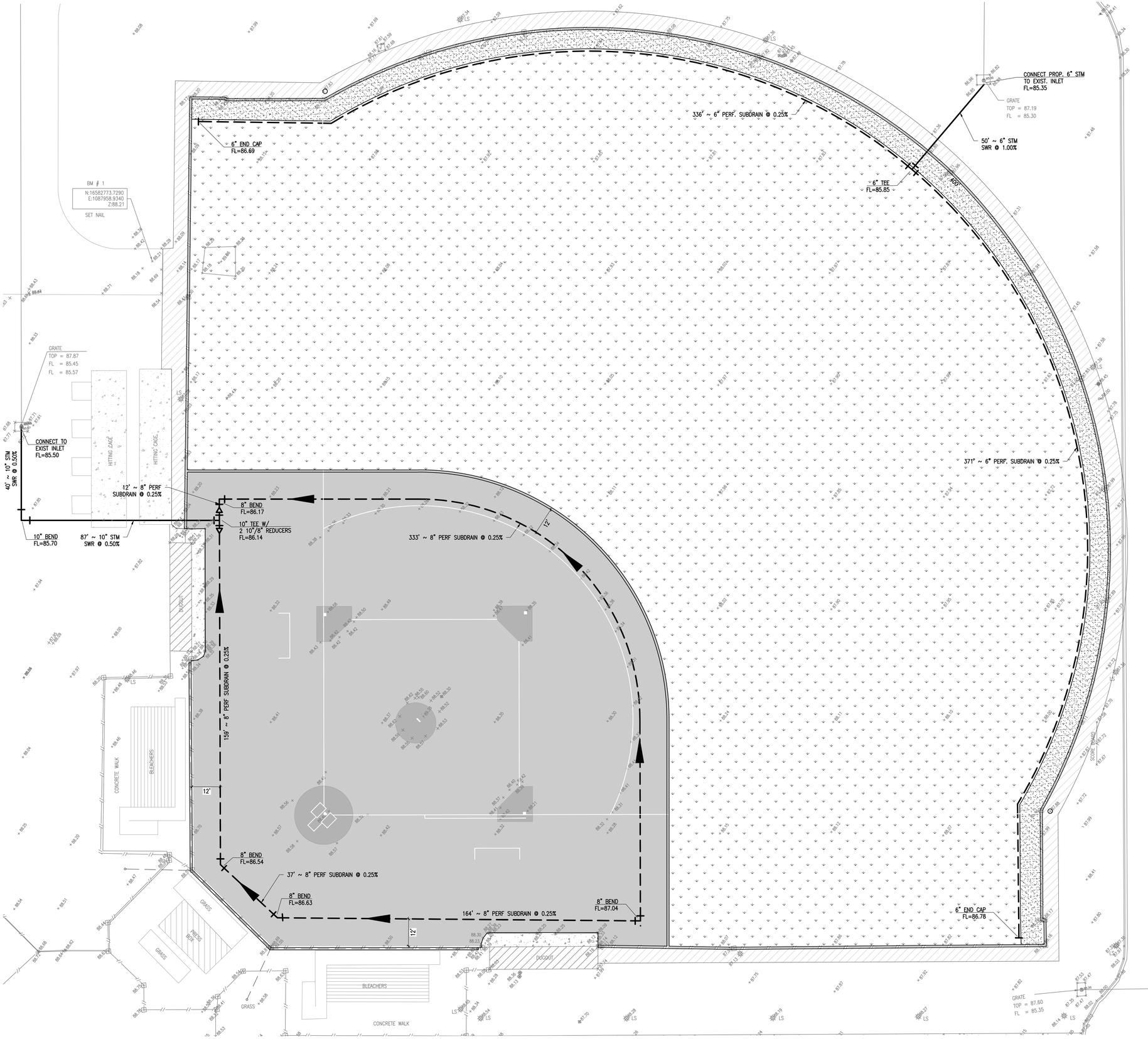
ISSUE FOR PROPOSALS

BASEBALL SITE PLAN

CA 101

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 101 BASEBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:52:19 AM

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN



NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE, REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.
5. CONTRACTOR SHALL PROVIDE A SECOND SET OF CAST IRON GRATES WITH THE TURF SYSTEM GLUED TO GRATE TO BE INSERTED ONTO INLETS / MANHOLES DURING GAMES.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

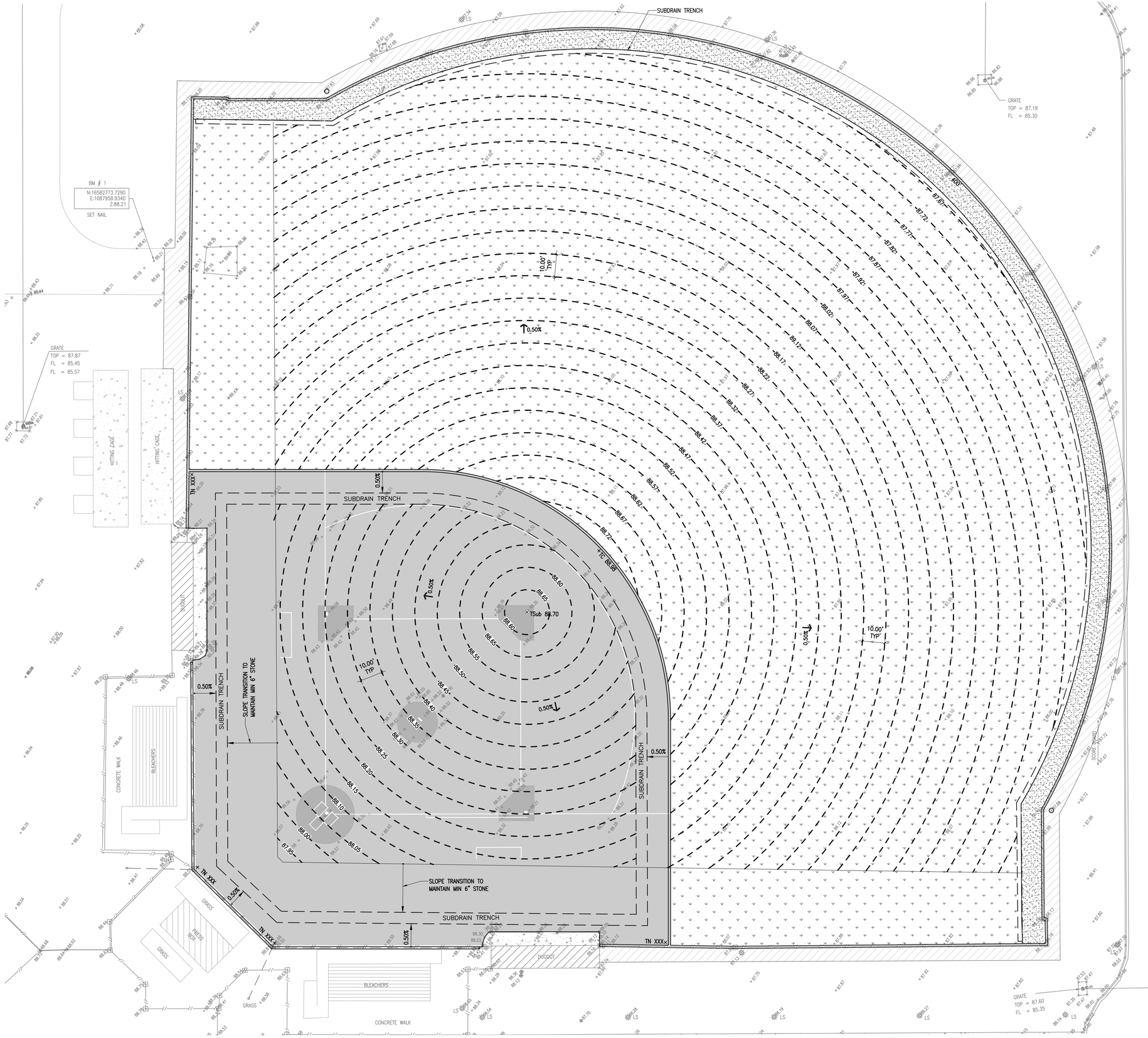
No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL
DRAINAGE PLAN

CA 102

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 102 BASEBALL DRAINAGE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:52:51 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

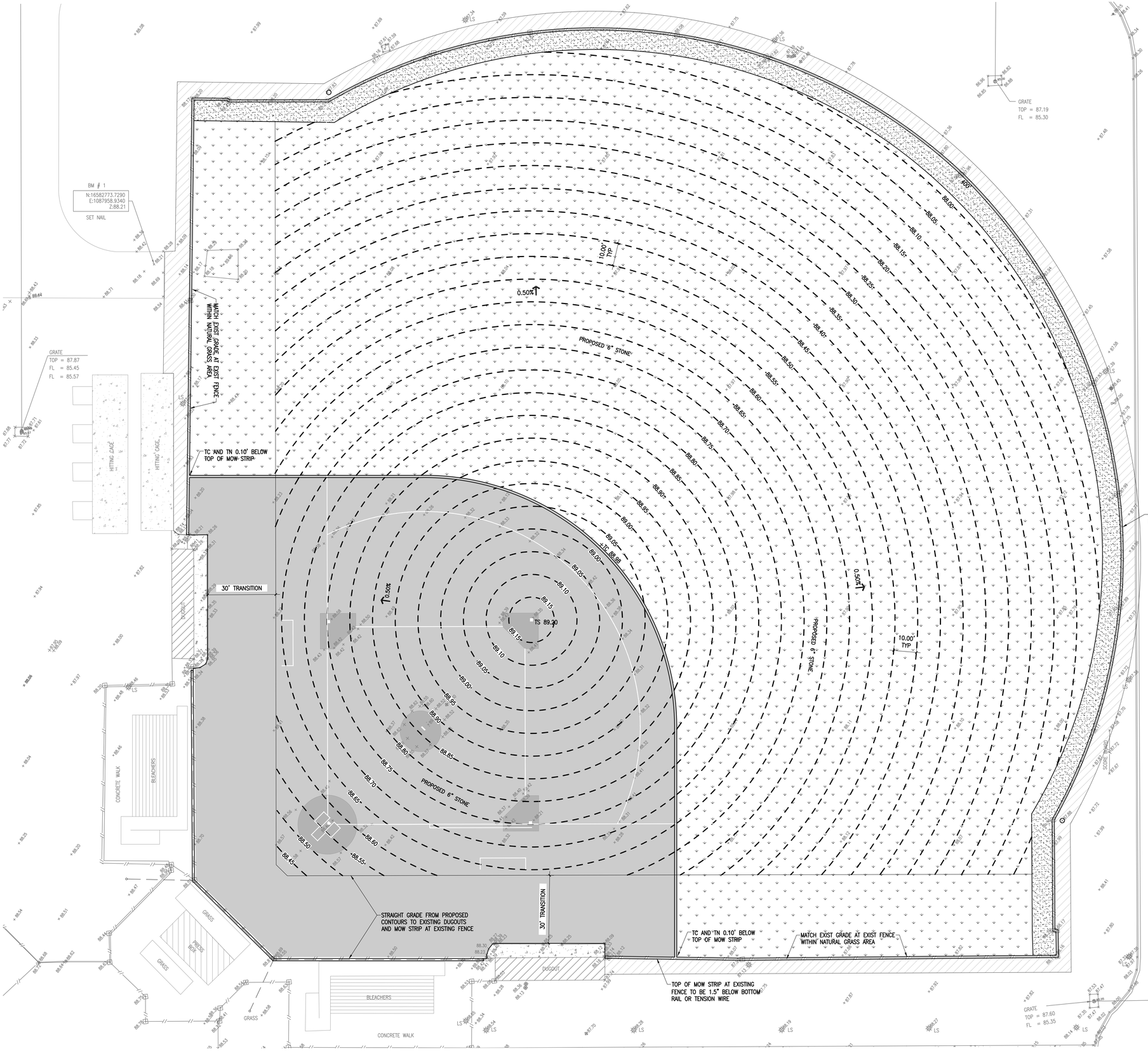
ISSUE FOR PROPOSALS

BASEBALL SUBGRADE GRADING PLAN

CA 103

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 103 BASEBALL SUBGRADE GRADING PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:53:18 AM

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

4" TOPSOIL ROOTZONE

6" FREE DRAINING STONE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/19

REVISIONS

No.	Description	Date

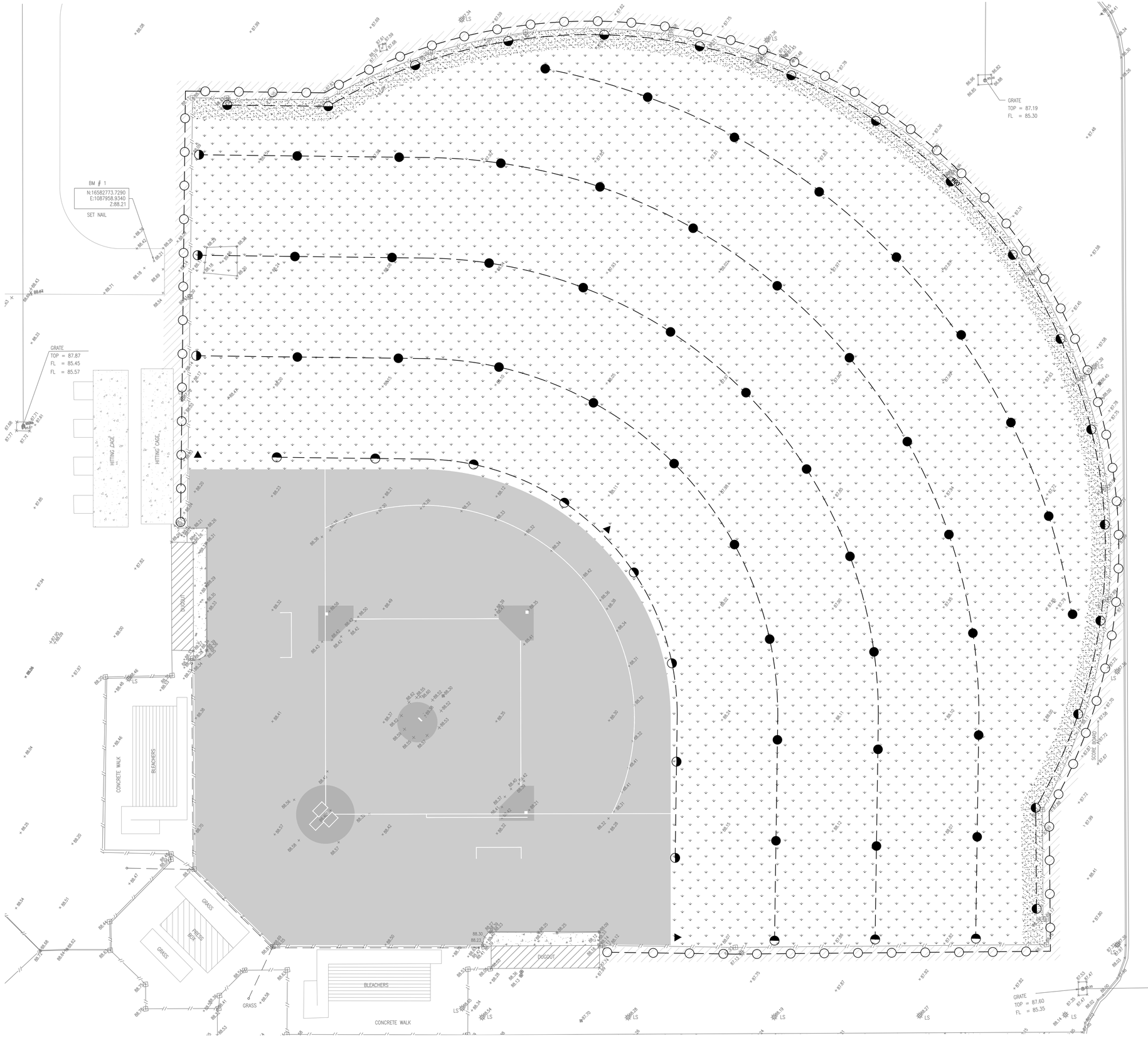
ISSUE FOR PROPOSALS

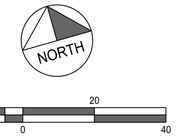
BASEBALL FINISH GRADING PLAN

CA 104

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 104 BASEBALL FINISH GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 4:35:59 PM

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN





NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CANNOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER (M)
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

REVISIONS

No.	Description	Date

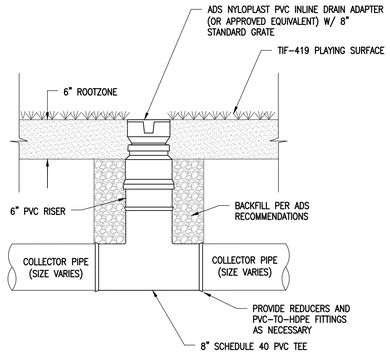
ISSUE FOR PROPOSALS

BASEBALL IRRIGATION PLAN

CA 105

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 105 BASEBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:54:03 AM

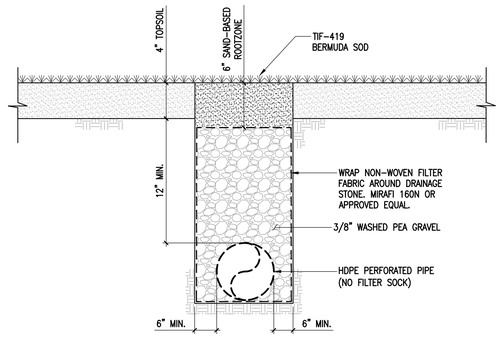
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN



NOTES:
1. PROVIDE EXTRA GRATE WITH KNITTED NYLON SYNTHETIC TURF WITH 5MM PAD GLUED TO THE TOP.

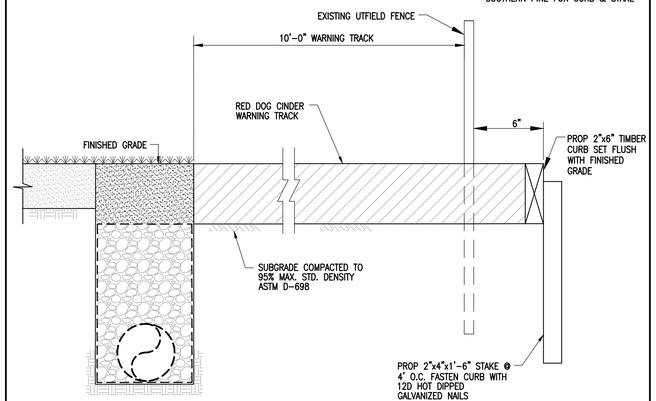
9 | INLINE DRAIN (ID)

NOTE:
SAND-BASED ROOTZONE SHALL BE 90% SAND + 10% CLAY/SILT.



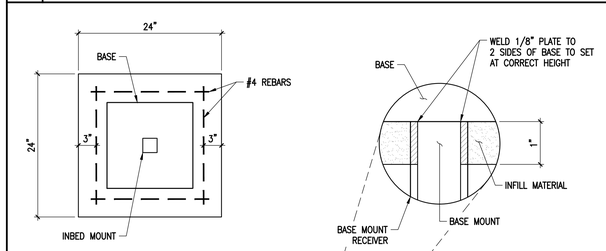
8 | NATURAL TURF FIELD SUBDRAIN

NOTE:
USE GRADE 2 WOLMANIZED SOUTHERN PINE FOR CURB & STAKE

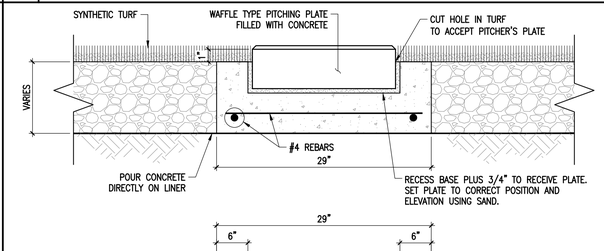


7 | WARNING TRACK

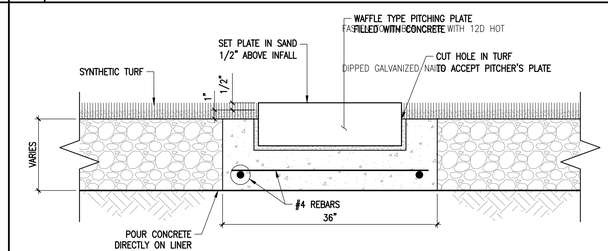
PROP. 2" x 4" x 1'-6" STAKE @ 4' O.C.



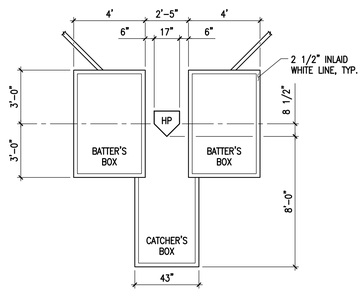
6 | BASE PLATE MOUNT



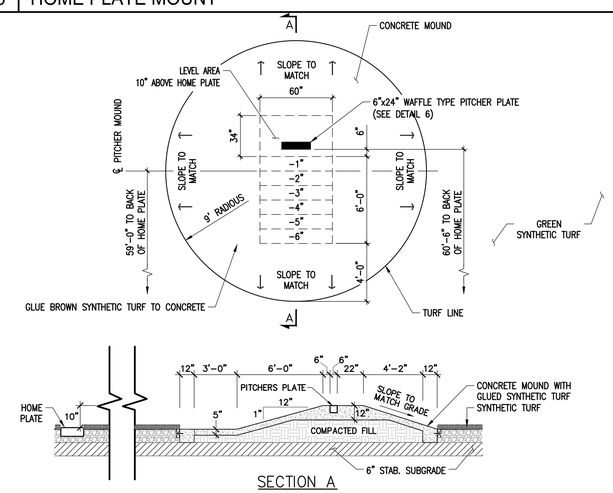
5 | HOME PLATE MOUNT



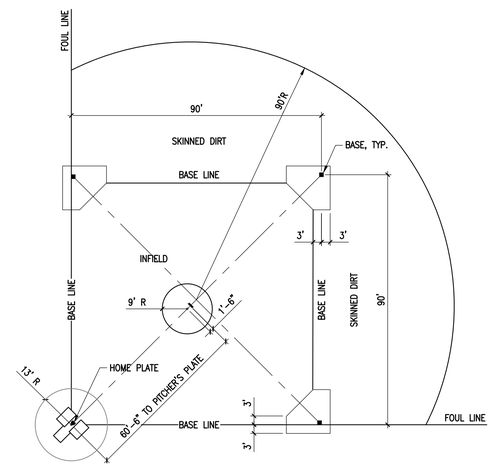
4 | PITCHER'S PLATE MOUNT



3 | BASEBALL BATTER'S BOX



2 | BASEBALL SYNTHETIC TURF PITCHER MOUND (ALTERNATE)



1 | BASEBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

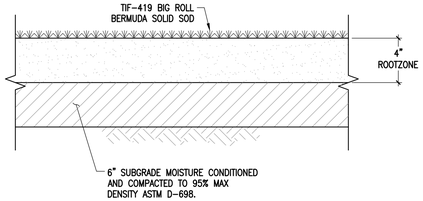
BASEBALL DETAILS

CA 106

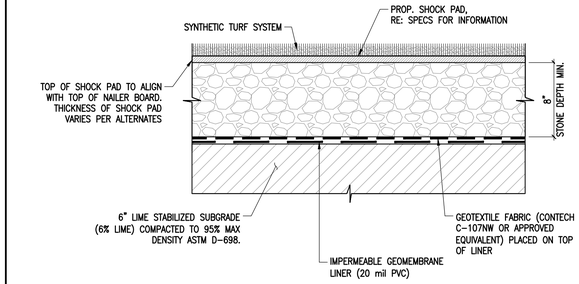
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 106 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:22:36 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

NOTE:

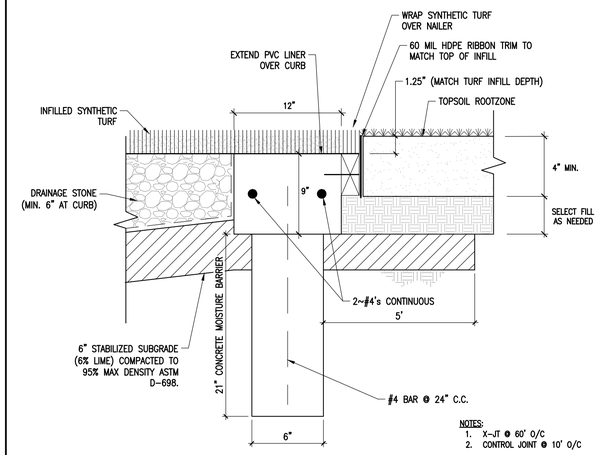
1. ROOTZONE TO BE TOPSOIL MIX WITH 10% COMPOST BLENDED IN.
2. 4" ROOTZONE DEPTH INCLUDES APPROX. 3/4" SOD ROOTZONE MATERIAL.



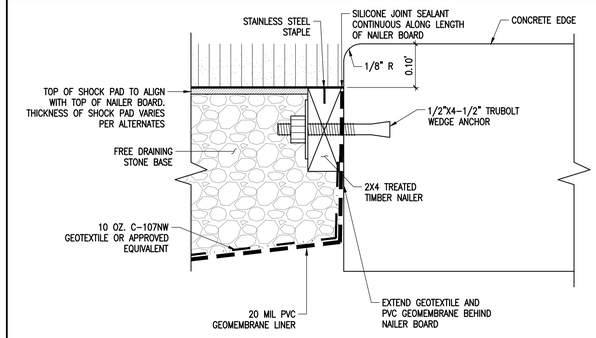
9 NATURAL TURF SECTION



8 ALTERNATE SYNTHETIC TURF SECTION WITH SHOCK PAD (ALT. #3)



7 12" CONCRETE TURF CURB



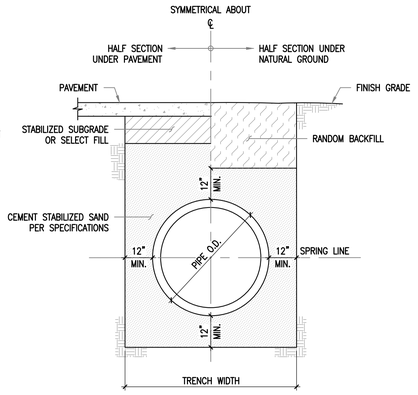
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

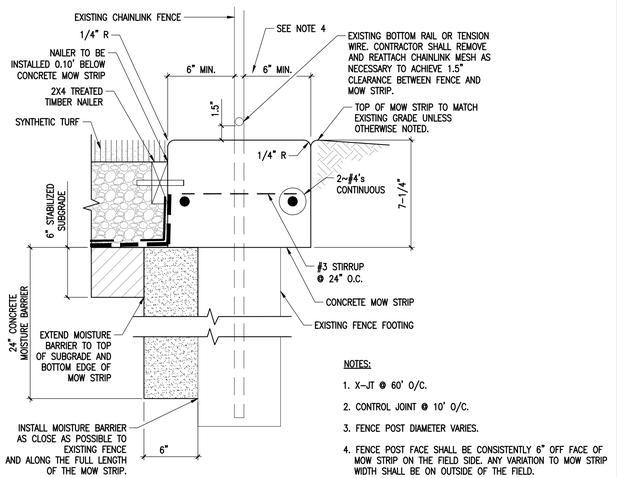
6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT #3)

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.



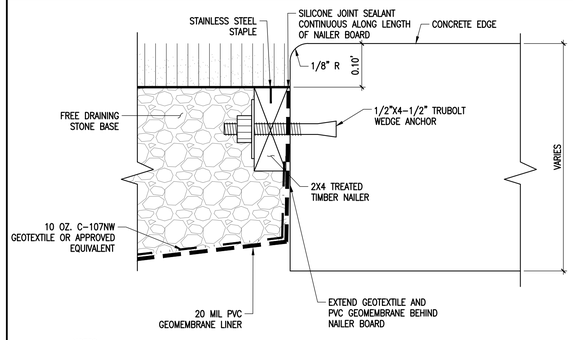
5 STORM SEWER BEDDING AND BACKFILL



NOTES:

1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. FENCE POST DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

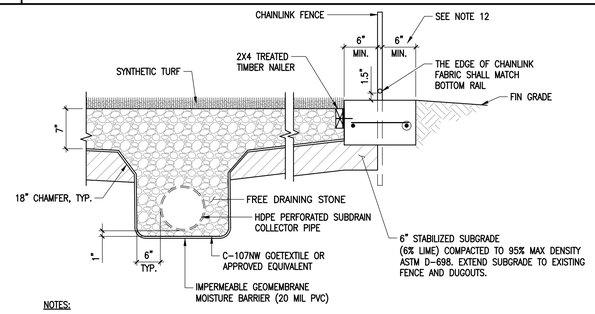
4 SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

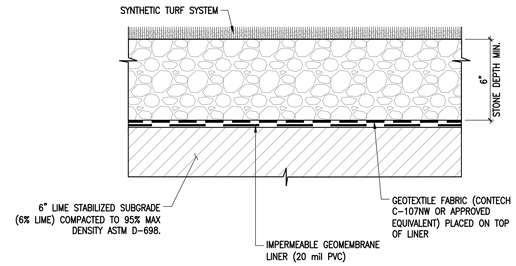
3 NAILER BOARD SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 0.10" BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 6" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. FENCE POST DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

2 BASEBALL SYNTHETIC TURF SYSTEM EDGE SECTION



1 SYNTHETIC TURF SECTION

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

BASEBALL
DETAILS

CA 107

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 107 BASEBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:25:56 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

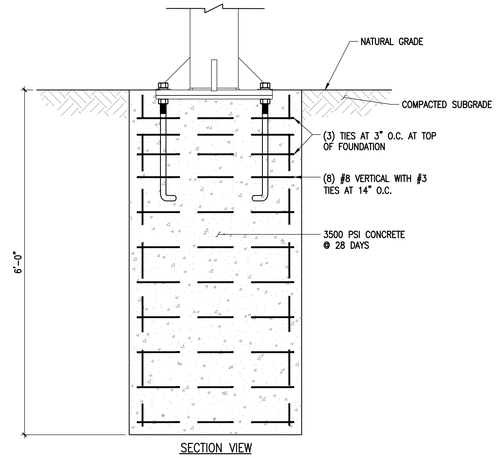
6 NOT USED

5 NOT USED

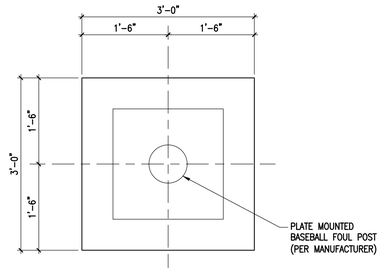
2 NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POST MANUFACTURER. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POST STYLE AND MANUFACTURER.



SECTION VIEW

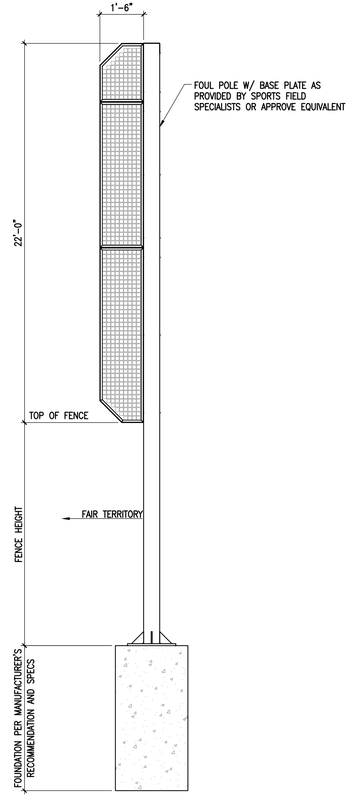


PLAN VIEW

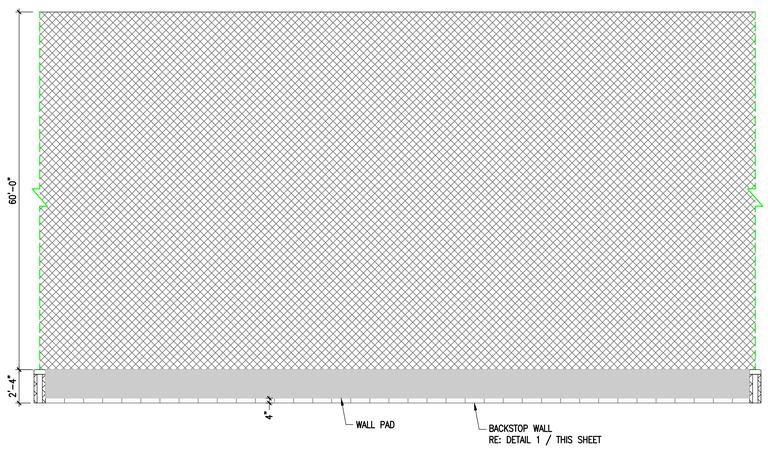
4 BASEBALL FOUL POLE FOUNDATION

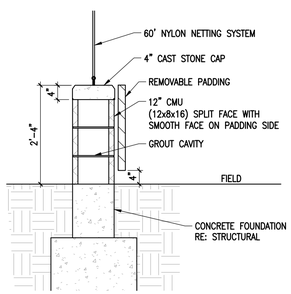
NOTE:

ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 BASEBALL FOUL POLE 22FT WING





1 BACKSTOP WALL & NETTING DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ARCHITECT
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

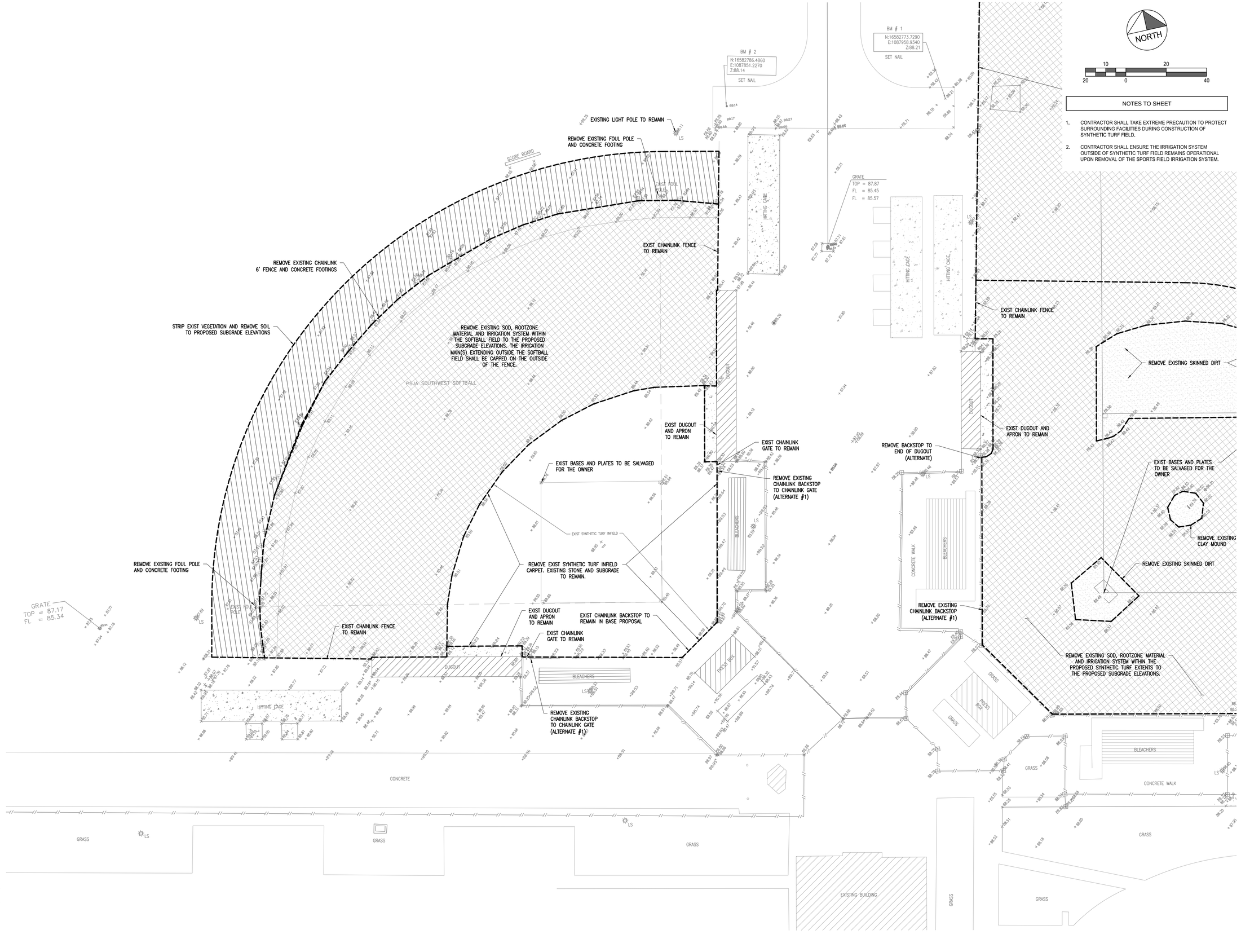
ISSUE FOR PROPOSALS

BASEBALL DETAILS

CA 108

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 108 BASEBALL DETAILS.dwg Last Saved: IGARCIA
Wednesday, August 7, 2019 9:32:21 AM



CHECKED BY: TCRYER

DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 200 SOFTBALL DEMOLITION PLAN.dwg Last Saved: AGLUZMAN

Wednesday, August 7, 2019 9:55:15 AM

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/19

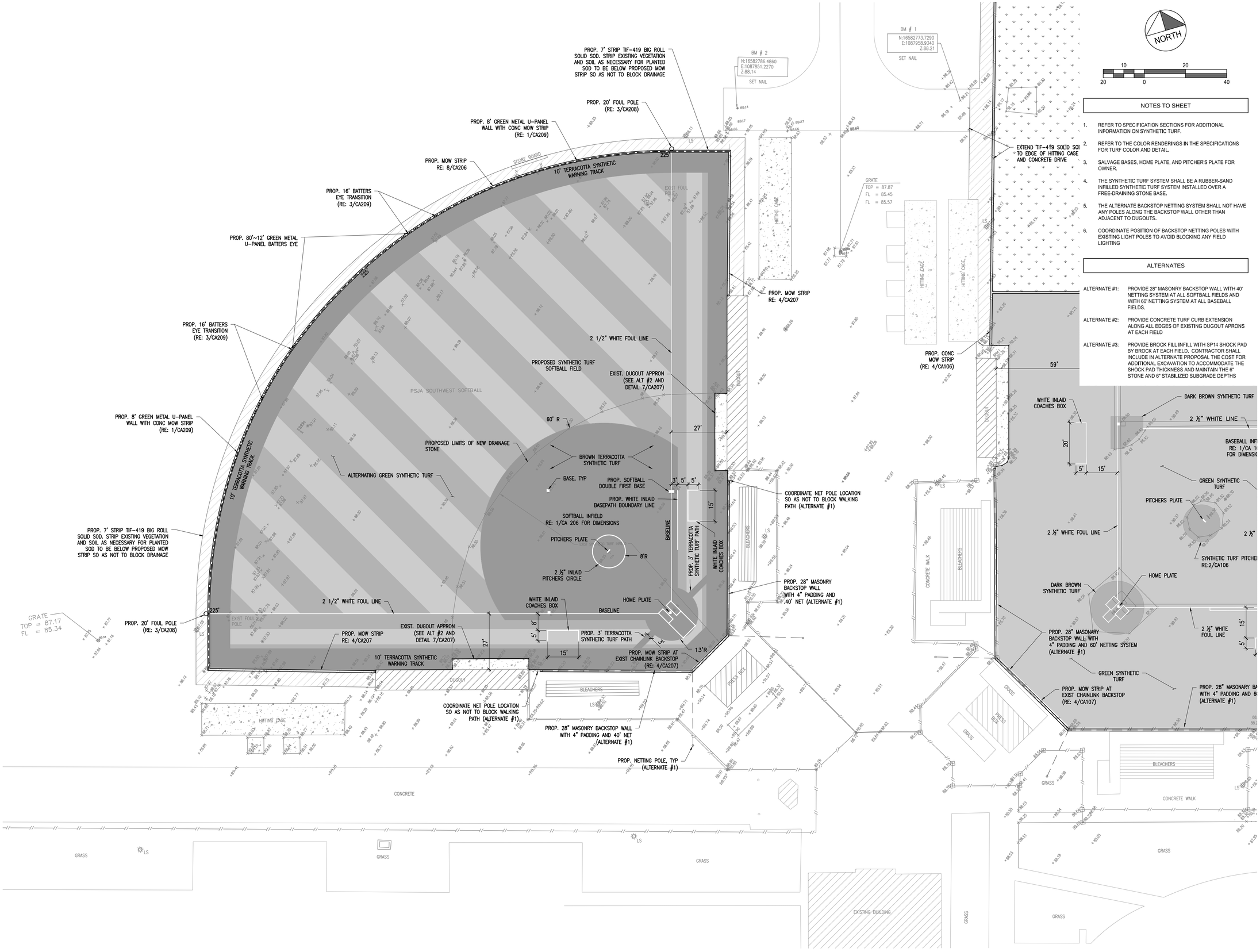
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DEMOLITION PLAN

CA 200



NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING

ALTERNATES

ALTERNATE #1: PROVIDE 28' MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

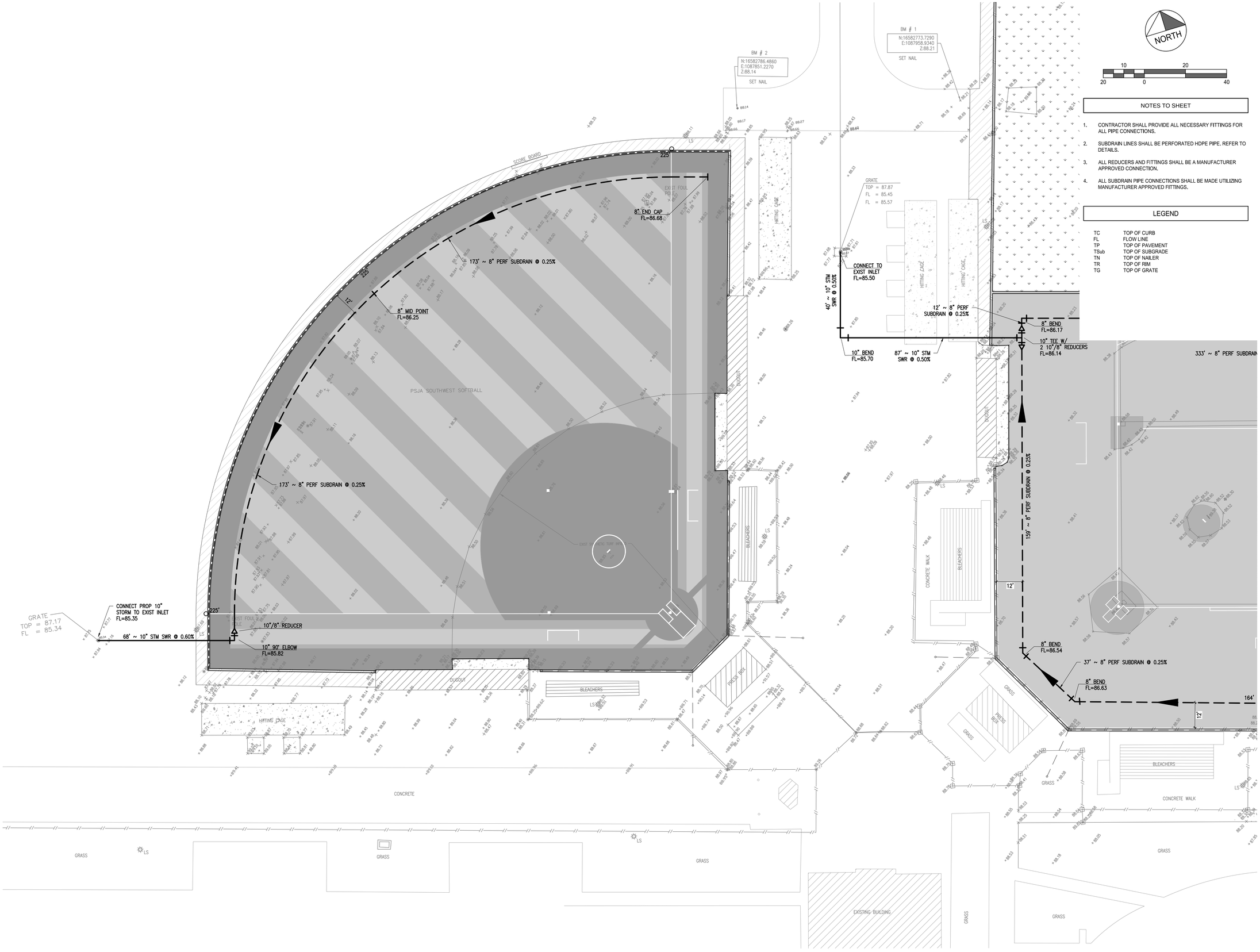
ISSUE FOR PROPOSALS

SOFTBALL SITE PLAN

CA 201

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 201 SOFTBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:55:55 AM



NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE. REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

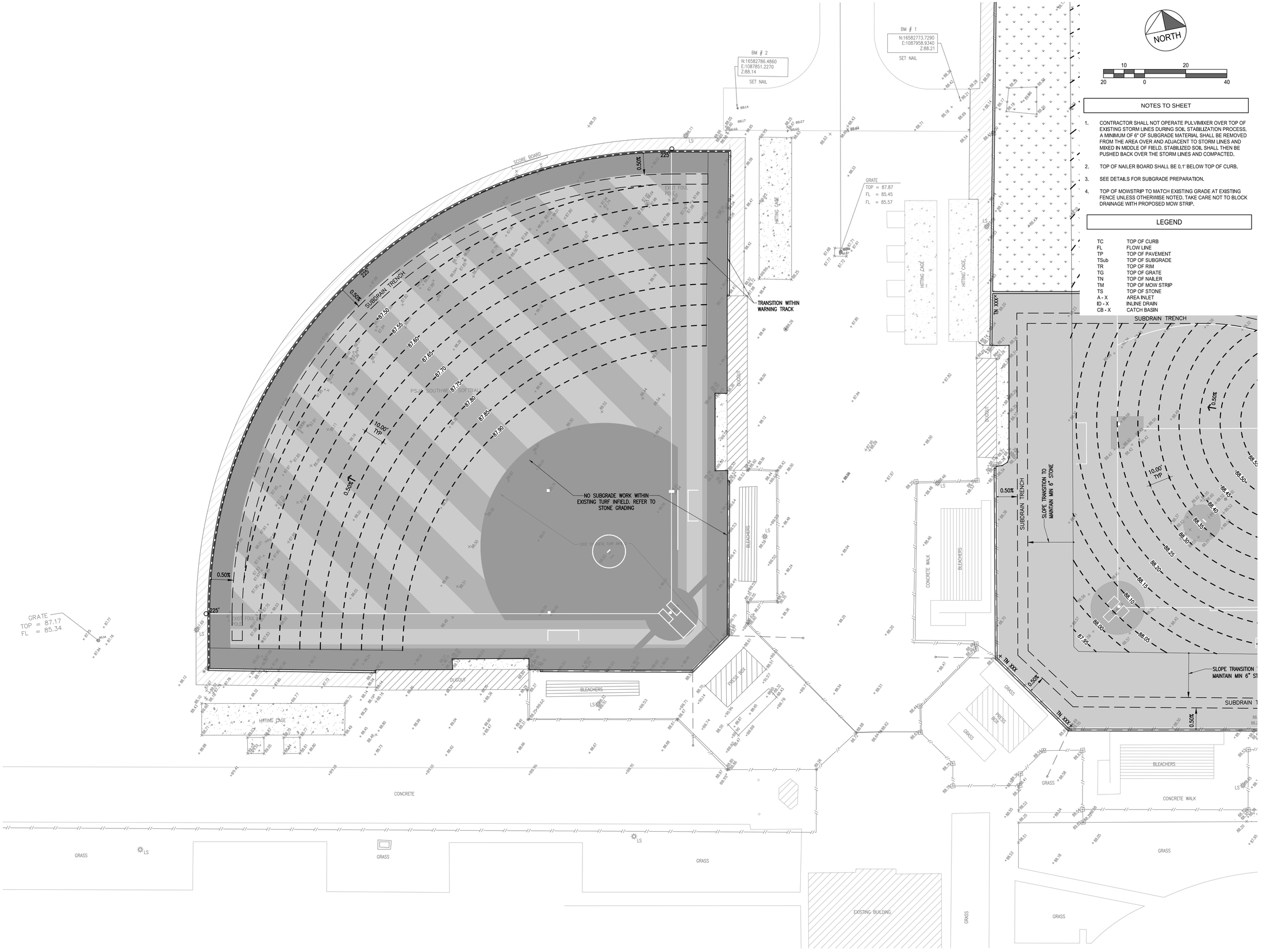
ISSUE FOR PROPOSALS

SOFTBALL DRAINAGE PLAN

CA 202

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 202 SOFTBALL DRAINAGE PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:56:36 AM



B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SPD\v8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 203 SOFTBALL SUBGRADE GRADING PLAN.dwg Last Saved: AGLUZMAN

Wednesday, August 7, 2019 9:57:53 AM

DRAWN BY: AGLUZMAN

CHECKED BY: TCRYER

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

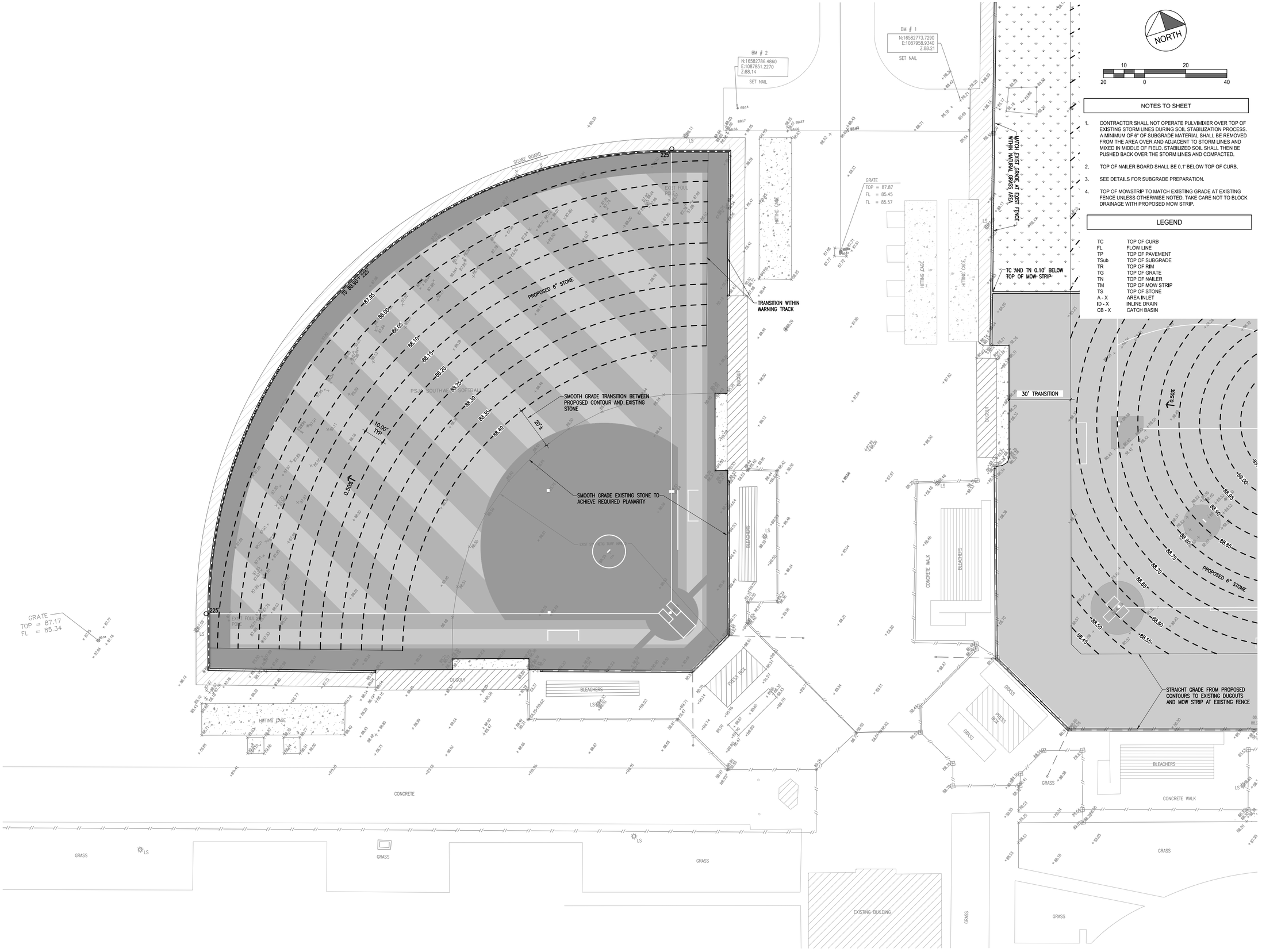
SOFTBALL SUBGRADE GRADING PLAN

CA 203

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 204 SOFTBALL STONE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 1:50:15 PM

CHECKED BY: TCRYER

DRAWN BY: AGLUZMAN



NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
08/07/2019

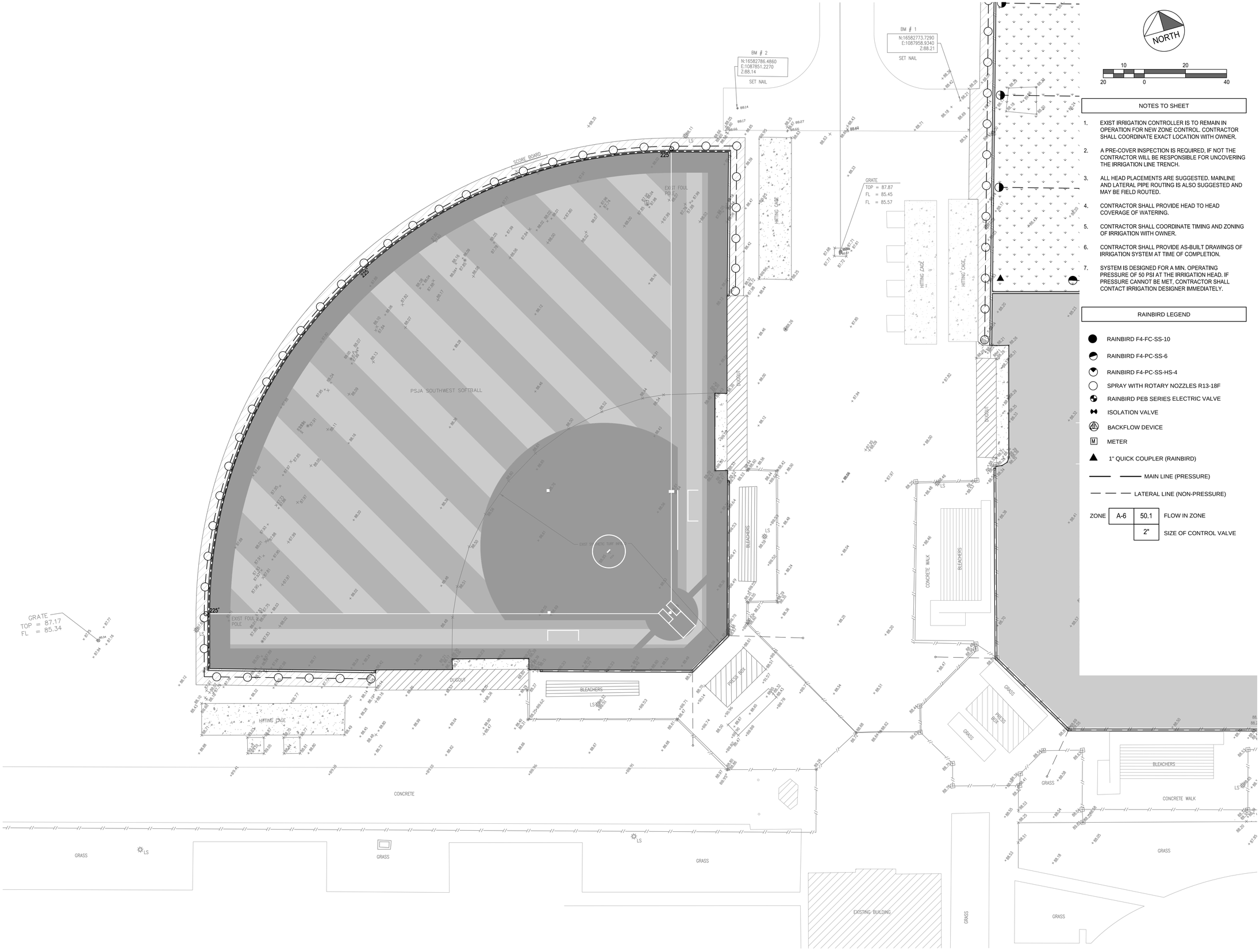
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL STONE GRADING PLAN

CA 204



NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CANNOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PRK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19

REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL IRRIGATION PLAN

CA 205

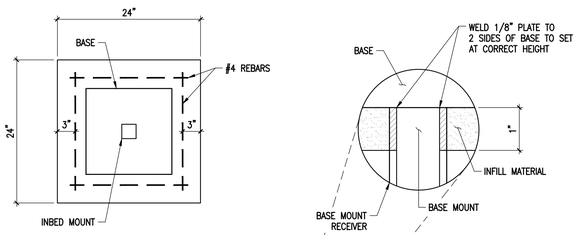
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 205 SOFTBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 9:57:41 AM

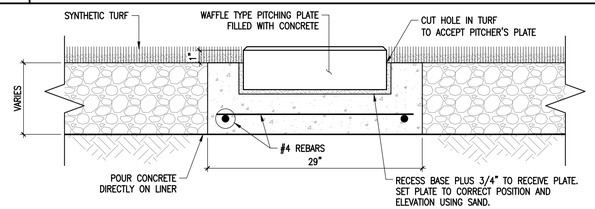
9 NOT USED

8 NOT USED

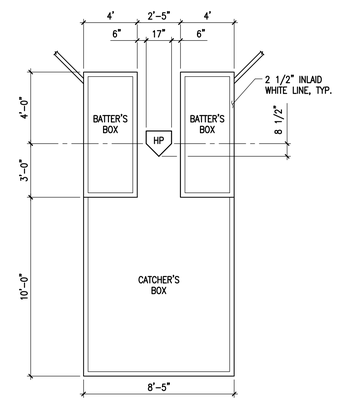
7 NOT USED



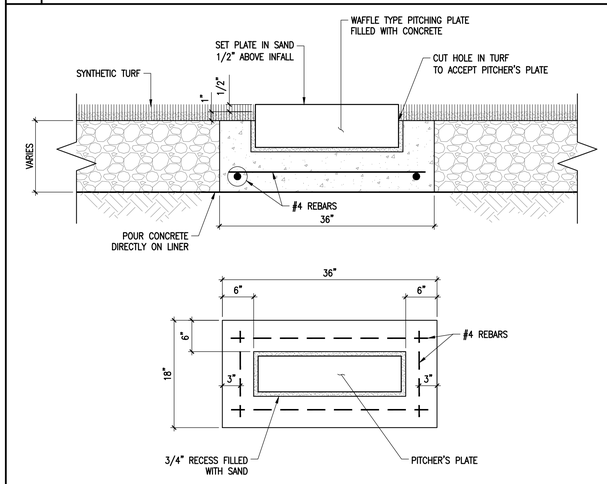
6 SOFTBALL BASE PLATE MOUNT



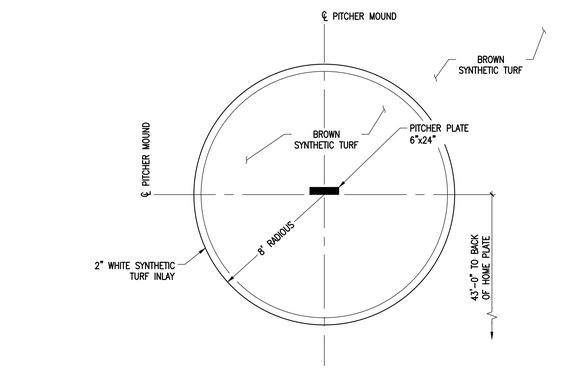
5 SOFTBALL HOME PLATE MOUNT



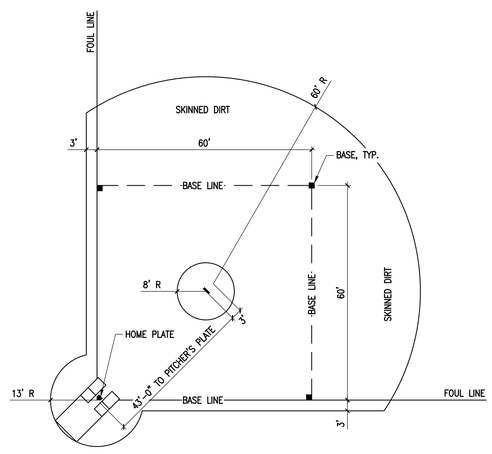
4 SOFTBALL BATTER'S BOX



3 SOFTBALL PITCHER'S PLATE MOUNT



2 FAST PITCH SOFTBALL PITCHER MOUND SYNTHETIC TURF



1 FAST PITCH SOFTBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL
FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/19

REVISIONS

No.	Description	Date

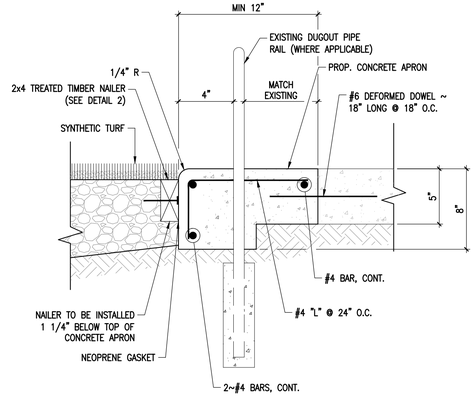
ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 206

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

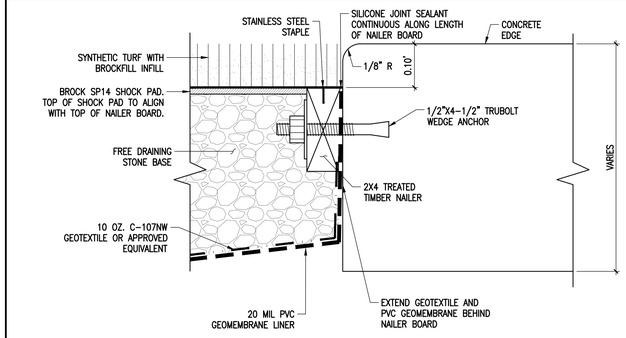
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 206 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 7:43:29 PM



9 NOT USED

8 NOT USED

7 CONCRETE APRON AT EXISTING DUGOUT RAIL (ALTERNATE #2)

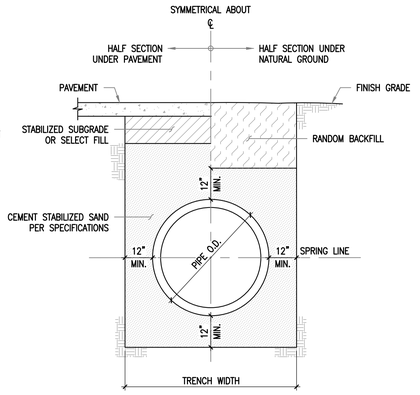


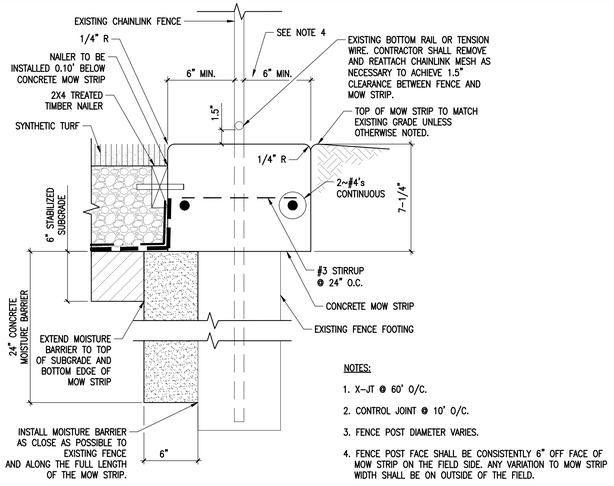
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.





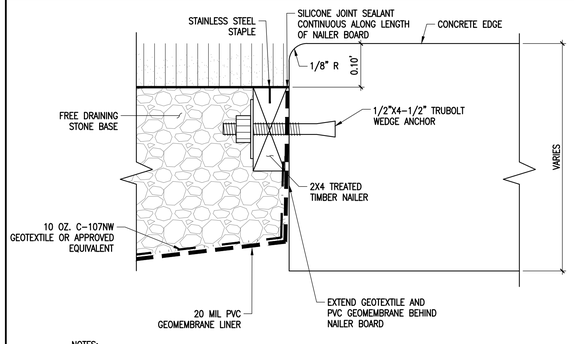
NOTES:

1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. FENCE POST DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT. #3)

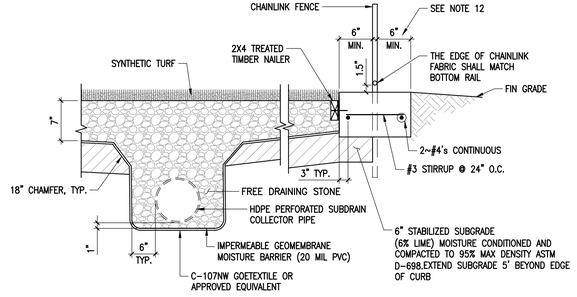
5 STORM SEWER BEDDING AND BACKFILL

4 SOFTBALL SYNTHETIC TURF MOW STRIP AT EXISTING FENCE



NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

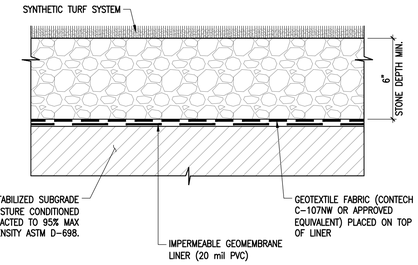


NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 1.5" BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL 1/4" THICK X 3" WIDE NEOPRENE GASKET BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 7" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. POLE DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

3 NAILER BOARD SECTION

2 SOFTBALL SYNTHETIC TURF SYSTEM EDGE SECTION



1 SOFTBALL SYNTHETIC TURF SECTION

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 207

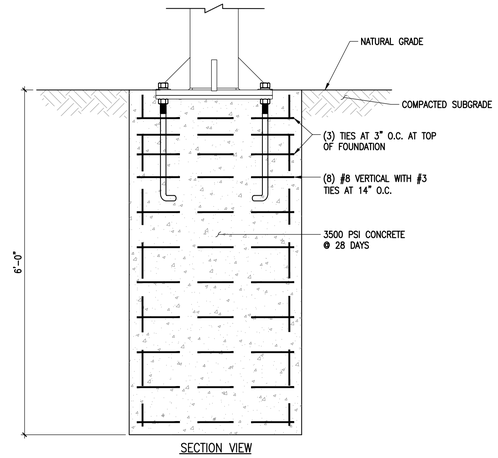
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 207 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:36:38 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

6 | NOT USED

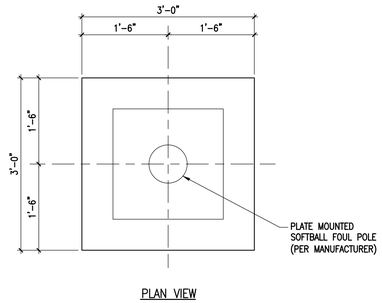
5 | NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POLE MANUFACTURER. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.



SECTION VIEW

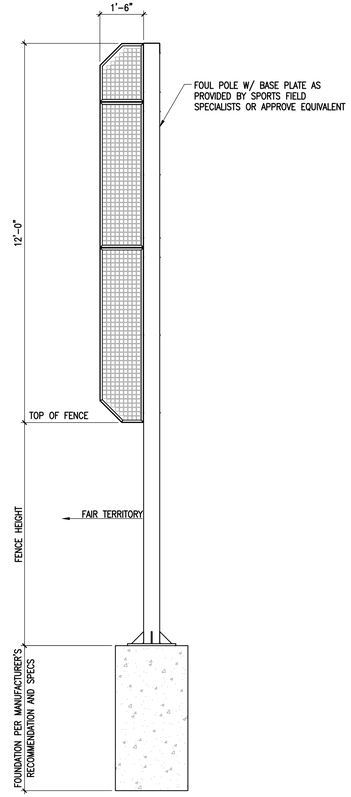


PLAN VIEW

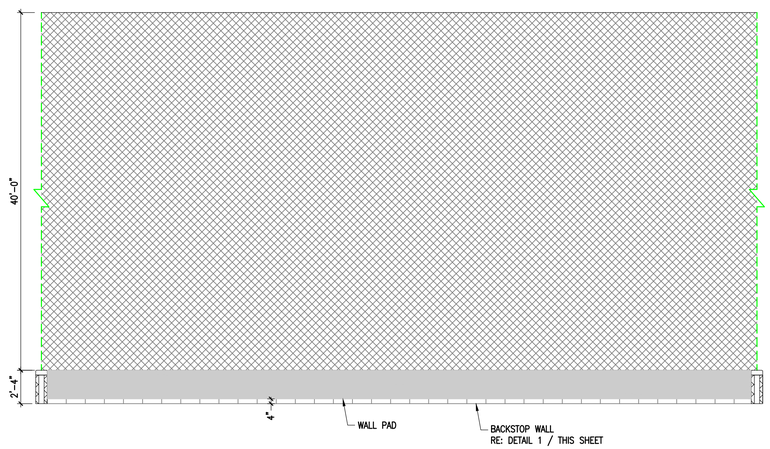
4 | SOFTBALL FOUL POLE FOUNDATION

NOTE:

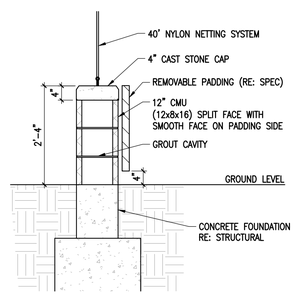
ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 | SOFTBALL FOUL POLE 22FT WING



2 | BACKSTOP NETTING DETAIL (ALTERNATE #1)



1 | BACKSTOP WALL DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

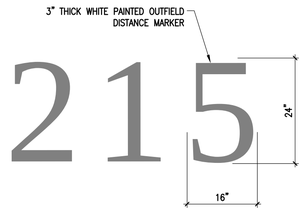
ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 208

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 208 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:09:45 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

5 NOT USED

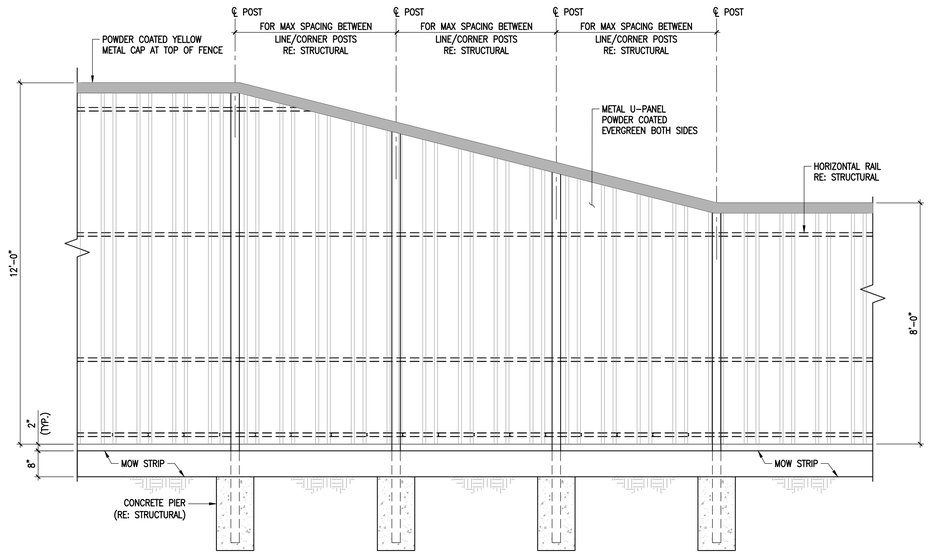


NOTES:

1. LOCATION OF OUTFIELD MARKERS ARE AS FOLLOWS: 1' INSIDE FIELD OF PLAY FROM FOUL POLE ALONG BACK OF FENCE. CENTER OF OUTFIELD WALL MARKERS SHALL BE 1' BELOW TOP OF OUTFIELD FENCE.
2. THERE SHALL BE A 6" YELLOW PAINTED LINE ON FENCE DIRECTLY IN FRONT OF FOUL POLE TO MARK THE FOUL TERRITORY.

4 OUTFIELD FENCE NUMBERING MARKINGS

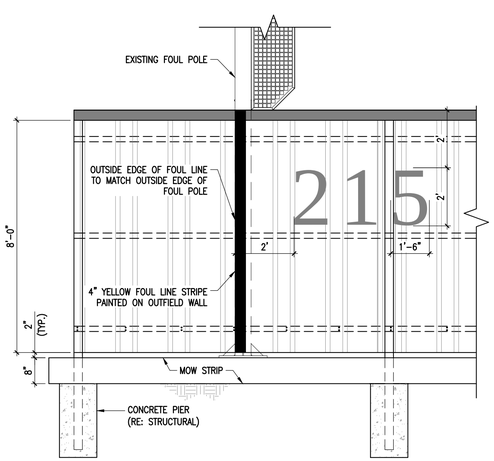
NOMINAL PIPE SIZE SCHEDULE 40	WEIGHT LBS/FT
1-1/4"	2.27
1-1/2"	2.72
2"	3.65
2-1/2"	5.79
3	7.58
3-1/2"	9.12
4	10.80
6	18.99
8	28.58



NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ALL FENCE POSTS FENCING SUPPORTS. ALL FENCE PIPING SHALL BE HOT DIP GALVANIZED SCHEDULE 40 STEEL PIPE, UNLESS OTHERWISE NOTED.
2. DIMENSIONS AND SIZES SHOWN ARE MINIMUM REQUIRED.
3. CONTRACTOR SHALL DESIGN AND BUILD FENCE TO WITHSTAND WIND LOAD PER REGULATIONS AND BE RESPONSIBLE FOR ITS FUTURE PERFORMANCE.

3 12' TO 8' METAL U-PANEL FENCE TRANSITION

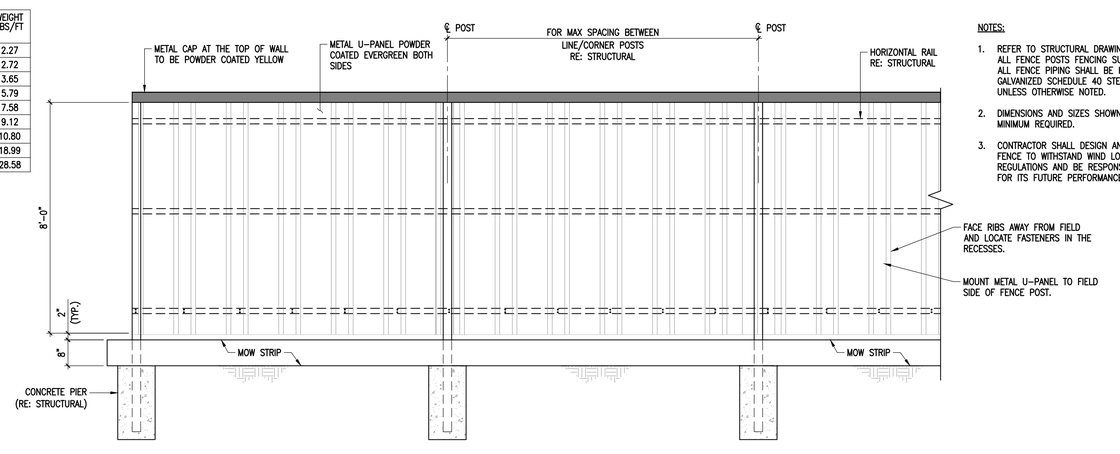


NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ALL FENCE POSTS FENCING SUPPORTS. ALL FENCE PIPING SHALL BE HOT DIP GALVANIZED SCHEDULE 40 STEEL PIPE, UNLESS OTHERWISE NOTED.
2. DIMENSIONS AND SIZES SHOWN ARE MINIMUM REQUIRED.
3. CONTRACTOR SHALL DESIGN AND BUILD FENCE TO WITHSTAND WIND LOAD PER REGULATIONS AND BE RESPONSIBLE FOR ITS FUTURE PERFORMANCE.
4. CONTRACTOR TO FIELD VERIFY OUTFIELD FENCE DISTANCE PRIOR TO PAINTING DISTANCE MARKERS ON FENCE.

2 8' METAL U-PANEL FENCE WITH MARKINGS

NOMINAL PIPE SIZE SCHEDULE 40	WEIGHT LBS/FT
1-1/4"	2.27
1-1/2"	2.72
2"	3.65
2-1/2"	5.79
3	7.58
3-1/2"	9.12
4	10.80
6	18.99
8	28.58



NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ALL FENCE POSTS FENCING SUPPORTS. ALL FENCE PIPING SHALL BE HOT DIP GALVANIZED SCHEDULE 40 STEEL PIPE, UNLESS OTHERWISE NOTED.
2. DIMENSIONS AND SIZES SHOWN ARE MINIMUM REQUIRED.
3. CONTRACTOR SHALL DESIGN AND BUILD FENCE TO WITHSTAND WIND LOAD PER REGULATIONS AND BE RESPONSIBLE FOR ITS FUTURE PERFORMANCE.

1 8' METAL U-PANEL FENCE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA SOUTHWEST ECHS
SOFTBALL AND BASEBALL FIELD UPGRADES

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
PROFESSIONAL
ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 209

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA SOUTHWEST HIGH SCHOOL\CA 209 SOFTBALL DETAILS.dwg Last Saved: IGARCIA
Wednesday, August 7, 2019 9:13:21 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

GENERAL:

G1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PROTECTED BY U.S.A. COPYRIGHT LAWS. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE STRUCTURE FOR THE BUILDING DESCRIBED IN THE ARCHITECTURAL DRAWINGS AT THE LOCATION INDICATED. THE DESIGN OF THE STRUCTURE REPRESENTED BY THESE DOCUMENTS IS NOT VALID FOR ANY OTHER LOCATION, PURPOSE OR USE.

G2 UNLESS NOTED OTHERWISE, THE GENERAL NOTES AND THE DETAILS IN THE DRAWINGS DESIGNATED AS "TYPICAL DETAILS," ARE APPLICABLE TO THE CONSTRUCTION IN ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE GENERAL NOTES AND THE TYPICAL DETAILS.

G3 THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATED PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G4 CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE (ENGINEER FILL IN) 20XX INTERNATIONAL BUILDING CODE AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN. IN THE EVENT OF A CONFLICT BETWEEN THE BUILDING CODE AND THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G5 ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOBSITE DURING CONSTRUCTION.

G6 UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM, BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.

G7 THE ROOF STRUCTURE AND IT'S SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT ADEQUATE AND SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

G8 THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN CLARIFICATIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

G9 THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

G10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

G11 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. REDUNDANT DIMENSIONS AND OTHER INFORMATION INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS MAY OR MAY NOT BE PROVIDED IN THE STRUCTURAL DRAWINGS. THE ENTIRE SET OF CONTRACT DOCUMENTS IS REQUIRED TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. THE CONTRACTOR SHALL ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. IF THERE IS SPECIFIC DIMENSIONAL OR OTHER INFORMATION THAT THE CONTRACTOR FEELS CAN NOT BE DETERMINED FROM THE CONTRACT DOCUMENTS AS A WHOLE, THEN THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER. THE ADDITIONAL INFORMATION WILL BE PROVIDED, OR THE CONTRACTOR WILL BE INFORMED WHERE THE INFORMATION CAN BE FOUND, OR HOW IT CAN BE CALCULATED FROM INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS.

G12 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS ANCILLARY DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S, AND HIS DETAILERS, RESPONSIBILITY TO ESTABLISH WHERE SUCH ANCILLARY DIMENSIONS ARE NECESSARY AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

G13 ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. REF ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT INDICATED ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

G14 THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS SO STATED OR NOTED, THEY DO NOT INDICATE COMPONENTS THAT ARE NECESSARY FOR SUPPORTING AND STABILIZING THE WORK DURING CONSTRUCTION OR THE MEANS AND METHODS OF CONSTRUCTION, ALL OF WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

G15 ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, FOR INSPECTIONS UNLESS SPECIFICALLY INCLUDED IN THE ENGINEER'S CONTRACT.

G16 THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS INDICATED IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSION, RECESSES, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION. ANY REQUEST FOR RELOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION.

G17 VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS NOT INDICATED IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

G18 ELEVATIONS PROVIDED IN THE STRUCTURAL DRAWINGS ARE RELATIVE ELEVATIONS AND ARE NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATIONS OF VARIOUS ELEMENTS OF THE BUILDING.

G19 LOCATIONS AND LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS INDICATED ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN LOCATION, TYPE, SIZE, WEIGHT, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

G20 PROPOSED SUBSTITUTIONS OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE CONTRACTOR'S PERCEIVED INTEREST TO THE OWNER FOR ACCEPTING THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT OR OTHER INDEPENDENT VERIFICATION OF THE PRODUCTS PERFORMANCE. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "NOTICE IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES OR DEVIATIONS ARE BEING PROPOSED AND THEY ARE ACCOMPANIED WITH THE REQUIRED BACKUP DATA. PROPOSED SUBSTITUTIONS OR DEVIATIONS WILL NOT BE REVIEWED OR RESPONDED TO WITHOUT THE REQUIRED BACKUP DATA. THE CONTRACTOR SHALL REMAIN LIABLE FOR ANY SUBSTITUTION OR DEVIATION UNLESS ACKNOWLEDGEMENT AND ACCEPTANCE IS PROVIDED BY THE ENGINEER IN WRITING.

G21 THE CONTRACTOR SHALL COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

G22 DO NOT SCALE THE DRAWINGS IN THE STRUCTURAL DOCUMENTS FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

G23 CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND 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.

G24 THE CONTRACTOR SHALL ARRANGE PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

G25 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES OR OTHER OBSTRUCTIONS IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF A DISCOVERED ITEMS WITH THE CONSTRUCTION OF NEW FOUNDATION ELEMENTS.

EXISTING CONDITIONS:

EX1 EXISTING CONDITIONS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF ANY EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS INDICATED ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER.

EX2 ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

EX3 THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

EX4 REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

EX6 EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.

EX7 THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.

EX8 DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.

EX9 THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.

EX10 WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

SHOP DRAWINGS:

SDR1 SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

SDR2 THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.

SDR3 THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

SDR3 SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.

SDR4 THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.
A. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.
B. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.

SDR5 OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

SDR6 THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.

SDR7 SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

SDR8 COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

GEOTECHNICAL REPORT:

GR1 FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:

GEOTECHNICAL CONSULTANT:	TERRACON CONSULTANTS, INC.
GEOTECHNICAL REPORT NUMBER:	88195058
GEOTECHNICAL REPORT NAME:	PSJA SOUTHWEST SCHOOL SOFTBALL & BASEBALL FIELD TURF
GEOTECHNICAL REPORT LOCATION:	ALAMO, TX
GEOTECHNICAL REPORT DATE:	JUNE 18, 2019

GR2 THE GEOTECHNICAL REPORT IS AVAILABLE TO THE CONTRACTOR AS A REFERENCE DOCUMENT UPON REQUEST TO THE OWNER.

GR3 THE CONTRACTOR SHALL READ THE GEOTECHNICAL INVESTIGATION REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE RECOMMENDATIONS LISTED IN GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.

GR4 THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR APPLICABILITY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.

GR5 THESE PLANS, AND THE PROJECT SPECIFICATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND COMMENT BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO ENSURE CONFORMANCE BETWEEN THE FOUNDATION DESIGN AND THE INTERPRETATION OF THE GEOTECHNICAL RECOMMENDATIONS.

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
A|G &|E Structural Engenuity

GEOTECHNICAL REPORT WITHOUT LOAD BEARING VALUES:

NG1 LOAD BEARING VALUES WERE NOT AVAILABLE NOR PRODUCED BY THE OWNER FOR OUR USE ON THIS PROJECT. AS A RESULT, FOR THE FOUNDATION PORTIONS OF THIS PROJECT, WE PERFORMED OUR ANALYSIS UTILIZING THE PRESUMPTIVE LOAD-BEARING VALUES OF SOILS SECTION OF THE IBC FOR DETERMINATION OF THE ALLOWABLE VERTICAL AND LATERAL LOADING CAPACITIES. SEE IBC 2015 SECTION 1806 PRESUMPTIVE LOAD-BEARING VALUES OF SOIL AND ASSOCIATE TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES, CLASS 5 SOILS HAVE BEEN ASSUMED FOR USE IN DESIGN ON THIS PROJECT.

TABLE BELOW TAKEN FROM IBC 2015 SECTION 1806
TABLE 1806.2
PRESUMPTIVE LOAD-BEARING VALUES

CLASS OF MATERIALS	VERTICAL FOUNDATION PRESSURE (PSF)	LATERAL BEARING PRESSURE (PSF/FT BELOW NATURAL GRADE	LATERAL SLIDING RESISTANCE	
			COEFFIECIENT OF FRICTION[A]	COHESION (PSF)[B]
1. CRYSTALLINE BEDROCK	12,000	1,200	0.70	---
2. SEDIMENTARY AND FOLIATED ROCK	4,000	400	0.35	---
3. SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000	200	0.35	---
4. SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC,GM AND GC)	2,000	150	0.25	---
5. CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500	100	---	130

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT PER FOOT = 0.157 kPa/m
a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD
b. COHESION VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1806.3.2

FOOTINGS

F1 FOOTINGS DESIGNS ARE BASED UPON THE INFORMATION GIVEN IN THE GENERAL NOTES SECTION: DRAWINGS ISSUED WITHOUT GEOTECHNICAL REPORT. REFER TO TYPICAL FOOTING DETAIL FOR SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES IS SHOWN ON PLANS.

F2 FOOTINGS CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE IBC 2015. ANY ACCUMULATED WATER SHALL BE PUMPED FROM THE EXCAVATION PRIOR TO CONCRETE PLACEMENT AND REINSPECTED.

F3 FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE. WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.

F4 PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.

F5 ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.

F6 REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.

F7 ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL LABORATORY IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.

F8 THE TOPS OF ALL PERIMETER FOOTINGS SHALL BE AT LEAST 24 INCHES BELOW THE FINAL SURROUNDING GRADE.

F9 TEMPLATES SHALL BE UTILIZED TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. DETAILS OF THE TEMPLATES SHALL BE PROVIDED IN THE FOOTING SHOP DRAWINGS.

GENERAL FOUNDATION NOTES:

FD1 GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED.

FD2 REFERENCE THE FOUNDATION PLAN FOR SIZE AND SPACING OF SLAB-ON-GRADE REINFORCEMENT.

FD3 PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS UNLESS NOTED OTHERWISE. REFER TO TYPICAL CORNER BAR DETAIL.

FD4 FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.

FD5 PROVIDE WATERSTOPS AT ALL SUB GRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUB GRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS INDICATED IN THE DOCUMENTS.

FD6 NO VERTICAL CONDUIT, SLEEVE OR PIPE IS PERMITTED TO BE EMBEDDED IN CONCRETE BEAM WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS SPECIFICALLY DETAILED OTHERWISE.

SHEET LIST - SOUTHWEST HIGH SCHOOL

SHEET NUMBER	SHEET NAME
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 103	SOUTHWEST HS BASEBALL SITE PLAN
S 203	SOUTHWEST HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PRK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

SW

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL
GENERAL NOTES

S 000

A|G
&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

CONCRETE MIX:

CM1 CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGN SCHEDULE								
USE	28-DAY STRENGTH (PSI)	SLUMP (IN)	MAX. WATER CEMENT RATIO	MAX. CURED DENSITY (PCF)	MAX. AGGREGATE SIZE (IN)	CEMENT TYPE	MAX. ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
FOOTINGS	3,000	3-5	0.50	150	1"	I / II	30	5
BEAMS	4,000	3-5	0.50	150	1"	I / II	20	-
WALLS	4,000	6-8	0.50	150	1"	I / II	30	5

CM2 CHANGING MATERIAL PROPORTIONS, PROPERTIES, SOURCES, COMBINATIONS, ADDITIONS OR ANYTHING WHICH IS A CHANGE IN THE APPROVED MIX DESIGN REQUIRES A NEW MIX DESIGN SUBMITTAL. ADMIXTURES PLACED IN THE CONCRETE MIX SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INCLUDED IN THE SUBMITTED CONCRETE MIX DESIGN FOR APPROVAL.

CM3 CONCRETE SLUMPS INDICATED ABOVE ARE AFTER THE ADDITION OF WATER-REDUCING ADMIXTURES OR PLASTICIZERS. SLUMP AT THE POINT OF PLACEMENT SHALL NOT EXCEED AMOUNT SPECIFIED. DO NOT PLACE CONCRETE WITH SLUMP AND TEMPERATURE OUTSIDE THE LIMITS PROVIDED ON THE APPROVED MIX DESIGNS. USE OF CHLORIDES IN ANY ADMIXTURE IS NOT PERMITTED.

CM4 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN THE SCHEDULE (MASS CONCRETE SHALL ONLY BE TYPE II CEMENT). NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.

CM5 FLY ASH SHALL NOT BE USED AS A CONSTITUENT IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO THE MAXIMUM PERCENTAGE LISTED ABOVE. THE WEIGHT OF THE FLY ASH SHALL BE ADDED TO THE WEIGHT OF THE CEMENT IN THE CALCULATION OF THE WATER CEMENT RATIO. THE CONTRACTOR SHALL CONFIRM IN THE MIX DESIGN SUBMITTAL THAT THE USE OF FLY ASH WILL NOT INTERFERE WITH THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WITH THE CONCRETE.

CM6 AIR ENTRAINMENT IS REQUIRED ONLY IN NORMAL WEIGHT CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS 1.5 %. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.

CM7 MIX FOR TOPPING SLABS THAT ARE LESS THAN TWO INCHES THICK SHALL CONTAIN "FIBERMESH" POLYPROPYLENE, MD GRADED FIBERS WITH A MINIMUM RATIO OF 1.5 POUNDS PER CUBIC YARDS. ALSO, REFER TO NOTES SECTIONS ON NON-METALLIC REINFORCEMENT AND NON-COMPOSITE TOPPING SLABS.

CM8 SHRINKAGE LIMIT FOR CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL BE 0.045% AT 28 DAYS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS TO THE ENGINEER PRIOR TO CONSTRUCTION.

CM9 NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT AT CONTRACTOR'S OPTION.

CM10 THE COMPRESSIVE STRENGTH OF GROUT BELOW BASE PLATES SHALL BE AT LEAST 7000 PSI.

CM11 TESTING ACCEPTANCE CRITERIA FOR CAST-IN-PLACE CONCRETE IS IN THE SPECIFICATIONS.

CM12 USE CALCIUM NITRITE AT A RATE OF TWO GALLONS/CUBIC YARD IN EXPOSED PARKING GARAGE STRUCTURES AND EXTERIOR TOPPING SLABS.

CM13 CONTRACTOR SHALL SUBMIT THE MIX DESIGN SUBMITTALS TO THE PROJECT'S TESTING LABORATORY PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER. A SUBMITTAL WITHOUT TESTING LABORATORY'S APPROVAL WILL BE REJECTED.

CONCRETE REINFORCING:

CR1 REINFORCING STEEL SHALL CONFORM TO ASTM A615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. GRADES SHALL BE AS FOLLOWS:
- A. #3 THROUGH #10.....GRADE 60
- B. #11 THROUGH #18.....GRADE 75

CR2 REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS INDICATED ABOVE. WELDING SHALL CONFORM TO AWS D1.4. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE DRAWINGS.

CR3 ELECTRICALLY-WELDED WIRE REINFORCEMENT (WWR) OF COLD-DRAWN WIRE (70,000 PSI YIELD) SHALL CONFORM TO ASTM A185, OF SIZE INDICATED ON DRAWINGS.

CR4 ALL HEADED STUDS AND DEFORMED BAR ANCHORS (DBA) SHALL BE WELDED BY FULL-FUSION PROCESS, AS FURNISHED BY TRW NELSON STUD WELDING DIVISION OR EQUAL.

CR5 DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI 315.

CR6 IN GENERAL, CLEAR CONCRETE COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (WITH OR WITHOUT VAPOR RETARDER):	ALL	3"	3/8"
EXPOSED TO EARTH OR WEATHER	#5 BAR AND SMALLER	1 1/2"	3/8"
	#6 BAR AND LARGER	2"	1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: (TYPICAL INTERIOR CONDITIONS, CRAWL SPACES, AND UNDERSIDE OF PARKING FLOORS ARE IN THIS CATEGORY)	SLABS AND WALLS	1"	3/8"
	WIDE PAN, SKIP JOISTS AND BEAMS	1 1/2"	1/2"
	COLUMNS	1 5/8"	1/2"

CR8 SPECIFIC COVER REQUIREMENTS ARE AS FOLLOWS:
(REF TABLE ABOVE IF SPECIFIC CASE IS NOT LISTED)

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
GRADE BEAMS, TOP, BOTTOM AND SIDES WHEN THREE SIDES FORMED-OTHERWISE REF ABOVE	ALL	2"	3/8"
SLAB BOTTOMS OVER VOID FORMS	ALL	2"	3/8"
SLAB-ON-GRADE	ALL	2"	+3/8" - 0"
PIERS	ALL	3"	3/8"
EXTERIOR FACE OF TILT-UP WALL PANELS (MEASURED FROM INSIDE FACE OF REVEAL)	REF TYP DETAIL		3/8"
			3/8"
INTERIOR FACE OF TILT-UP WALL PANELS	REF TYP DETAIL		3/8"
			3/8"
EDGE OF TILT-UP WALL PANELS	MAIN REINFORCEMENT	2"	3/8"
	TIES & STIRRUPS	1 1/2"	3/8"

CR9 ALL SCHEDULED REINFORCING BARS SHALL BE DETAILED ACCORDING TO THE BAR BENDING DIAGRAMS, SECTIONS AND DETAILS. FOR BARS IN UNSCHEDULED CONCRETE MEMBERS WITHOUT A SPECIFIED BAR TYPE, SHAPE OR LENGTH, DETAIL BARS ACCORDING TO THE FOLLOWING CRITERIA:
- A. DETAIL ALL BARS CONTINUOUSLY WITH HOOKS AND SPLICES SPECIFIED BELOW.
- B. HOOKS:
  1. ALL BEAM, WALL AND SLAB TOP BARS AND INTERMEDIATE BARS SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
  2. ONE-THIRD OF THE BEAM AND WALL BOTTOM BARS (TWO BARS MINIMUM) SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
- C. SPLICE TYPES (TYPICAL, UNLESS NOTED OTHERWISE):
  1. #3 TO #11 BARS: LAP SPLICES
  2. #14 AND #18 BARS: MECHANICAL SPLICES
- D. SPLICE LOCATIONS (TYPICAL, UNLESS NOTED OTHERWISE):
  1. SPLICE VERTICAL BARS IN COLUMNS AND WALLS ONLY AT FLOOR LINES. SLOPE OF INCLINED PORTION OF THE OFFSET BENT BARS LAP SPLICES SHALL NOT EXCEED 1 TO 6 (HORIZONTAL TO VERTICAL).
  2. SPLICE TOP BARS AT MIDSPAN BETWEEN SUPPORTS. NOTE - TOP BAR LAP SPLICES ARE NOT ALLOWED AT THE FOLLOWING LOCATIONS:
     a. CANTILEVER SPANS.
     b. SPANS ADJACENT TO CANTILEVERS.
     c. SPANS WITH LENGTHS LESS THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
  3. WHERE SPECIFIED TOP BARS IN ADJACENT BEAMS ARE DIFFERENT, PROVIDE THE LARGER OF THE REINFORCING OVER THE COMMON SUPPORT OF THE TWO ADJACENT BEAMS AND LOCATE THE LAP SPLICE BETWEEN THE LARGER BARS AND THE SMALLER BARS AT MID SPAN OF ONE OF THE BEAMS WITH THE SMALLER BARS SPECIFIED.
  4. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS.
  5. ALTERNATE SPLICES OF INTERMEDIATE BEAM BARS AND HORIZONTAL WALL BARS BETWEEN MIDSPANS AND SUPPORTS, WITH NO MORE THAN 50 PERCENT OF THE BARS ON EITHER FACE SPLICED AT THE SAME LOCATIONS.
  6. ALTERNATE MECHANICAL SPLICE LOCATION BY TWO FEET WITH NO MORE THAN 50 PERCENT OF THE BARS SPLICED AT THE SAME LOCATIONS.

CR10 PROVIDE DOWELS AT ALL EDGES OF CONCRETE SLABS PER TYPICAL SLAB DOWEL DETAIL.

CR11 PROVIDE DOWELS TO MATCH MASONRY WALL VERTICAL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU WALL PER THE LAP SCHEDULES IN CMU TYPICAL DETAILS, U.N.O.

CR12 SPLICING OF WELDED WIRE MESH SHALL BE AS FOLLOWS:
- A. INSTALL WELDED WIRE FABRIC IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS. THE LENGTH OF LAP SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL NOT BE LESS THAN ONE SPACING OF THE CROSS WIRES PLUS 2 INCHES. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.

CR13 EPOXY-COATED REINFORCEMENT:
- A. PROVIDE EPOXY-COATED REINFORCEMENT AS FOLLOWS:
  1. FOR REINFORCING EMBEDDED IN CONCRETE USE HILTI-HY 200 ADHESIVE
  2. FOR REINFORCING EMBEDDED IN CMU WALLS USE HILTI-HY 70 ADHESIVE
- B. EPOXY-COATING OF REINFORCEMENT SHALL CONFORM TO ASTM A 775.
- C. WHEN REQUIRED, REPAIR DAMAGED EPOXY-COATING WITH PATCHING MATERIAL CONFORMING TO ASTM A 775. REPAIR IN ACCORDANCE WITH PATCHING MATERIAL MANUFACTURER'S RECOMMENDATIONS.
- D. FASTEN EPOXY-COATED REINFORCEMENT WITH NYLON-, EPOXY-, OR PLASTIC-COATED WIRE OR EQUIVALENT.
- E. SUPPORT EPOXY-COATED REINFORCEMENT FROM FORMWORK ON COATED WIRE BAR SUPPORTS OR ON BAR SUPPORTS MADE OF DIELECTRIC MATERIAL OR EQUIVALENT.
- F. DO NOT WELD EPOXY-COATED REINFORCEMENT.
- G. DO NOT FIELD BEND EPOXY-COATED REINFORCEMENT.
- H. EPOXY-COATED REINFORCEMENT CUT IN FIELD SHALL HAVE ENDS OF REINFORCEMENT COATED WITH SAME MATERIAL USED FOR REPAIR OF COATING DAMAGE.
- I. FADING OF COLOR OF COATING SHALL NOT BE CAUSE FOR REJECTION.
- J. REINFORCEMENT AT TIME CONCRETE IS PLACED, SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT MAY ADVERSELY AFFECT OR REDUCE BOND. DO NOT CLEAN REINFORCEMENT WITH A MATERIAL OR BY A METHOD WHICH WILL DETERIORATE EPOXY-COATING.

CAST-IN-PLACE CONCRETE:

CIP1 ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT REQUIREMENT OF EITHER THE INTERNATIONAL BUILDING CODE (2015) OR THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) (2014).

CIP2 CONSTRUCTION JOINTS:
- A. PERMITTED ONLY WHERE INDICATED ON DRAWINGS.
- B. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
  1. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST-TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
  2. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
- D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
- E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER.

CIP3 CONDUITS, PIPES AND SLEEVES
- A. VARIOUS CONDUITS, PIPES AND SLEEVES WHICH ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MAY BE REQUIRED BY EQUIPMENT SUPPLIERS OR THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. COORDINATE AND IMPLEMENT THESE ITEMS INTO THE CONCRETE WORK OBSERVING THE FOLLOWING GUIDELINES.
- B. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL COMPLY WITH ACI 318, AND THESE SPECIFIC NOTES. THESE NOTES SHALL GOVERN WHERE THEY ARE IN CONFLICT WITH ACI. ALUMINUM EMBEDDED ITEMS ARE NOT PERMITTED.
- C. HORIZONTAL CONDUITS AND PIPES EMBEDDED IN SLABS.
  1. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB.
  2. THE CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL NOT BE LESS THAN 3 OUTSIDE DIAMETERS OR 6 INCHES, WHICHEVER IS GREATER.
  3. PLACE CONDUITS AND PIPES WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS.
  4. DO NOT REPOSITION REINFORCING FROM ITS SPECIFIED LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES IN SLABS.
- D. HORIZONTAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS UNLESS NOTED OTHERWISE.
  1. HORIZONTAL SLEEVES, CONDUITS OR PIPES SHALL PASS THROUGH AT RIGHT ANGLES TO THE SIDES OF BEAMS AND SHALL NOT BE PLACED LONGITUDINALLY WITHIN BEAMS.
  2. REFER TO TYPICAL DETAILS FOR ALLOWABLE PLACEMENT AND SIZE OF HORIZONTAL SLEEVES, CONDUITS OR PIPES AND REQUIRED ADDITIONAL REINFORCING.
- E. VERTICAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS.
  1. VERTICAL SLEEVES, CONDUITS OR PIPES IN BEAMS SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
- F. SLEEVES, CONDUITS OR PIPES, UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS, ARE NOT ALLOWED IN PILASTERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.
- G. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT PLATES IS NOT PERMITTED WITHIN FIVE FEET IN ANY DIRECTION OF COLUMN FACE UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- H. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT SLABS WITH DROP PANELS IS NOT PERMITTED WITHIN THE DROP PANEL UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- I. CORING OF TWO-WAY SLABS IS NOT PERMITTED UNLESS ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER AND SLAB REINFORCEMENT IS LOCATED AND AVOIDED.

CIP4 WET CURE ALL CONCRETE THAT WILL BE COLORED OR STAINED.

CIP5 HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

CIP6 REMOVAL OF FORMWORK:
- A. EXCEPT AS HEREIN SPECIFIED, REMOVE FORMWORK AND RESHORE IN ACCORDANCE WITH ACI 301 AND RECOMMENDATIONS OF ACI 347 TO ENSURE COMPLETE SAFETY OF FORMWORK AND STRUCTURE.
- B. FORMWORK FOR COLUMNS, WALLS, SIDES OF BEAMS AND OTHER PARTS NOT SUPPORTING WEIGHT OF CONCRETE MAY BE REMOVED AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO RESIST DAMAGE FROM FORMWORK REMOVAL OPERATIONS.
- C. RETAIN FORMS AND SHORING FOR ALL HORIZONTAL WORK UNTIL CONCRETE HAS ACHIEVED AT LEAST 75% OF ITS DESIGNATED 28-DAY COMPRESSIVE STRENGTH AND WILL SAFELY SUPPORT ITS OWN WEIGHT AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.
- D. RETAIN FORMS AND SHORING FOR POST-TENSIONED GIRDERS, BEAMS, AND SLABS UNTIL MEMBER HAS BEEN FULLY TENSIONED AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.

CIP7 RESHORING:
- A. NO CONSTRUCTION LOADS OR LIVE LOADS ARE PERMITTED ON FLOOR DURING STRIPPING AND UNTIL RESHORING IS COMPLETE.
- B. BEGIN RESHORING AFTER FORMS AND SHORES HAVE BEEN REMOVED FROM A LARGE ENOUGH AREA SUCH THAT FLOOR DEFLECTS AND SUPPORTS ITS OWN WEIGHT. COMPLETE RESHORING NO LATER THAN END OF WORKING DAY ON WHICH STRIPPING OCCURS.
- C. PLACE RESHORES SNUG AGAINST SOFFIT OF FLOOR ABOVE. DO NOT TIGHTEN RESHORES AS TO PRELOAD FLOOR BELOW.
- D. LOCATE SHORES AND RESHORES ONLY ABOVE WHERE RESHORES ARE LOCATED BELOW. WHERE SHORES OR RESHORES ARE NOT ALIGNED WITH RESHORES BELOW, SUBMIT DESIGN CALCULATIONS, PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, INDICATING THAT INDUCED STRESSES DO NOT EXCEED CAPACITY OF SLAB.
- E. EXTEND RESHORING OVER A SUFFICIENT NUMBER OF FLOORS TO DISTRIBUTE WEIGHT OF NEWLY PLACED CONCRETE, FORMWORK AND CONSTRUCTION LIVE LOADS IN SUCH A MANNER THAT SPECIFIED DESIGN LIVE LOADS (TAKING INTO ACCOUNT APPLICABLE LIVE LOAD REDUCTION) OF FLOORS BELOW ARE NOT EXCEEDED. NUMBER OF FLOORS REQUIRED TO SUPPORT WET CONCRETE SHALL BE DETERMINED BY CONTRACTOR'S LICENSED ENGINEER.
- F. DO NOT REMOVE RESHORES SUPPORTING ROOFS UNTIL CONCRETE HAS ACHIEVED 100% OF ITS SPECIFIED 28-DAY STRENGTH OR 21 DAYS, WHICHEVER IS LONGER.

CIP8 PROVIDE A MINIMUM 4 INCH THICK HOUSE KEEPING PAD BELOW MEP EQUIPMENT (SEE TYPICAL DETAIL). REFER TO THE MEP OR ARCH PLANS FOR LOCATIONS AND SIZES OF THESE PADS.

CIP9 UNLESS SPECIFICALLY NOTED OTHERWISE, THE TOP OF ALL CONCRETE SURFACES THAT SUPPORT PRECAST, MASONRY, CURTAIN WALL SYSTEMS, ETC., SHALL HAVE A TROWELED FINISH AND BE FLAT AND LEVEL

CIP10 WATERSTOPS:
- A. PROVIDE WATERSTOPS AT ALL SUBGRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUBGRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS AS INDICATED IN THE DOCUMENTS.

CIP11 PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS, JOISTS, WALLS AND SLABS (INCLUDING SLABS ON CARTON FORMS, IF APPLICABLE) IN ACCORDANCE WITH THE TYPICAL DETAILS.

CIP12 GRADE BEAMS AT DOCKS AND SIMILAR CONDITIONS (BOTH EXTERIOR AND INTERIOR) WHERE BACKFILL IS PLACED UP TO OR NEAR THE TOP OF THE BEAM OR WALL ON ONE SIDE AND THE GRADE ON THE OTHER SIDE OF THE BEAM OR WALL IS MORE THAN 2'-0" LOWER SHALL BE LATERALLY BRACED FROM THE LOW SIDE PRIOR TO PLACING THE FILL ON THE OTHER SIDE. THIS BRACING SHALL REMAIN UNTIL THE FLOOR SLAB AT THE TOP OF THE BEAM OR WALL HAS BEEN CONSTRUCTED AND HAS ATTAINED ITS SPECIFIED 28 DAY STRENGTH.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 001

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - ConsultantsArch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:12:28 PM

AG&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

EMBEDDED SHEAR-STUD CONNECTORS:

SC1 SHEAR-STUD CONNECTIONS SHALL BE NELSON FLUXED SHEAR CONNECTORS (SC) OR APPROVED EQUAL. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD. ALL STUD WELDS SHALL BE MANUFACTURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE NELSON STUD WELDING DIVISION, LORAIN, OHIO. SHEAR-STUDS SHALL BE MANUFACTURED OF C1015, C1017, OR C1020 COLD DRAWN STEEL CONFORMING TO ASTM A108.

POST-INSTALLED CONCRETE ANCHORS:

PA1 USE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBMIT SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CONTACT MANUFACTURE'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

PA2 POST INSTALLED CONCRETE ANCHORS SHALL BE OF SIZE, TYPE, AND QUANTITY AS NOTED ON DETAILS, AS MANUFACTURED BY HILTI, SIMPSON STRONG-TIE, OR POWERS ANCHOR SYSTEMS. NO OTHER MANUFACTURER IS PERMITTED. ANCHORS FROM ONLY ONE MANUFACTURER SHALL BE UTILIZED ON THE PROJECT.

PA3 HOLES IN CONNECTION PLATES FOR EXPANSION BOLTS SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF FIELD CONDITIONS OR TOLERANCES REQUIRE LARGER HOLES, PROVIDE PLATE WASHERS WITH BOLTS HOLES 1/16" LARGER THAN BOLT DIAMETER THAT ARE WELDED TO THE CONNECTION PLATE. THE CONTRACTOR SHALL SIZE THE PLATE WASHERS AND WELDS TO TRANSFER THE SHEAR AND TENSION CAPACITY OF THE EXPANSION BOLT.

PA4 INSTALL ALL POST INSTALLED BOLTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

PA5 PRIOR TO DRILLING FOR ANCHORS, A PACHOMETER OR ANOTHER APPROVED METHOD SHALL BE USED TO LOCATE EXISTING REINFORCING TO ENSURE THERE IS NO CONFLICT. IF A CONFLICT EXISTS, THE ANCHORS POSITION CAN BE ADJUSTED BY NO MORE THAN 1 INCH. IF A LARGER DEVIATION IS NECESSARY, CONTACT THE ENGINEER. ABANDONED OR UNUSED HOLES SHALL BE FILLED WITH EPOXY GROUT.

PA6 ONCE THE FINAL POSITION OF THE ANCHORS IS SET, TEMPLATES SHALL THEN BE UTILIZED TO TRANSFER THE FINAL LOCATION OF THE BOLT GROUP ON TO THE CONNECTION PLATE.

PA7 CONSTRUCTION OF POST INSTALLED ANCHORS REQUIRES CONTINUOUS INSPECTION BY THE TESTING LAB TO ENSURE PROPER EMBEDMENT AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

ARCHITECTURAL (NON-STRUCTURAL) CONCRETE UNIT MASONRY:

NSM1 REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF ARCHITECTURAL (NON-STRUCTURAL) MASONRY WALLS ON THE PROJECT.

NSM2 LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C331 WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 1,900 PSI. CONCRETE MASONRY UNITS SHALL BE COMPOSED OF LIGHTWEIGHT AGGREGATE.

NSM3 MORTAR SHALL CONFORM TO ASTM C270, TYPE "S", CEMENT-LIME MORTAR, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI. MASONRY CEMENT AND MORTAR CEMENT SHALL NOT BE USED.

NSM4 GROUT SHALL CONFORM TO ASTM C476, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

NSM5 MASONRY SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'm) OF 1,500 PSI.

NSM6 REINFORCING STEEL SHALL CONSIST OF DEFORMED GRADE 60 BARS CONFORMING TO ASTM A615. BARS SHALL BE NEW BILLET STEEL OF A DOMESTIC MANUFACTURE.

NSM7 GROUT SHALL BE MECHANICALLY CONSOLIDATED (VIBRATED), AND RECONSOLIDATED, USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.

NSM8 HORIZONTAL JOINT REINFORCEMENT SHALL BE STEEL WIRE (LADDER TYPE) AND SHALL CONFORM TO ASTM A951. JOINT REINFORCEMENT SHALL BE SPACED AT 16" OC VERTICALLY.

NSM9 CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.

NSM10 CONCRETE MASONRY UNITS LOCATED BELOW GRADE SHALL HAVE ALL CELLS FULLY GROUTED AND CONCRETE MASONRY UNITS LOCATED ABOVE GRADE SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE.

NSM11 INSTALL TEMPORARY BRACING AT ALL CMU WALLS. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE NON-STRUCTURAL STRUCTURE.

NSM12 REFER TO THE CMU WALL VERTICAL REINFORCING SCHEDULE FOR WALL REINFORCEMENT.

NSM13 REFER TO THE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT OPENINGS, CONTROL JOINTS, CORNERS AND ENDS OF WALL PANELS.

NSM14 PROVIDE HORIZONTAL REINFORCEMENT AS INDICATED IN THE CMU WALL REINFORCING DIAGRAM. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.

NSM15 MASONRY CONSTRUCTION REQUIRES SPECIAL INSPECTION. REFERENCE SPECIAL INSPECTION REQUIREMENTS ON THE INSPECTIONS SCHEDULE SHEET.

STRUCTURAL CONCRETE UNIT MASONRY:

CM1 THESE NOTES APPLY ONLY TO MASONRY INDICATED ON THE STRUCTURAL FRAMING PLANS. MASONRY NOT INDICATED ON THE STRUCTURAL FRAMING PLANS IS NOT PART OF THE STRUCTURAL FRAME AND IS CONSIDERED ARCHITECTURAL (NON-STRUCTURAL) MASONRY.
- A. HOWEVER, ARCHITECTURAL (NON-STRUCTURAL) MASONRY MAY ALSO REQUIRE REINFORCING AND REQUIREMENTS FOR THIS REINFORCING CAN BE FOUND AS FOLLOWS:
  1. ARCHITECTURAL (NON-STRUCTURAL) MASONRY VERTICAL REINFORCING:
     - a. REFER TO "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" IN THE STRUCTURAL DRAWINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
  2. ARCHITECTURAL (NON-STRUCTURAL) MASONRY HORIZONTAL REINFORCING (INCLUDING HORIZONTAL JOINT REINFORCING):
     - a. REFER TO THE TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS FOR HORIZONTAL REINFORCING IN LINTELS AND BOND BEAMS OVER WALL OPENINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

CM2 ALL STRUCTURAL MASONRY INDICATED ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS INCLUDING CLIP ANGLES, DOWELS, AND ADDITIONAL SECONDARY FRAMING MEMBERS ETC. INDICATED ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING.

CM3 PROVIDE MASONRY PRISM STRENGTH (F'M)= 2,000 PSI, MINIMUM.

CM4 HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C 90, LIGHTWEIGHT, GRADE N, TYPE I OR II, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI ON THE NET AREA OF THE BLOCK. UNLESS NOTED OTHERWISE, USE RUNNING BOND CONSTRUCTION.

CM5 MORTAR SHALL CONFORM TO ASTM C 270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME AND 3 1/2 TO 4 1/2 PARTS FINE AGGREGATE. DO NOT USE AIR ENTRAINING LIME, MASONRY CEMENT OR ADMIXTURES. MEASURE MATERIALS WITH A BATCHING BOX - DO NOT MEASURE MATERIALS WITH A SHOVEL.

CM6 COARSE GROUT SHALL CONFORM TO ASTM C 476, WITH A MAXIMUM FINE AGGREGATE SIZE OF 3/8", A MAXIMUM COARSE AGGREGATE SIZE OF 1/2" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 0 TO 1/10 PART LIME, 2 1/4 TO 3 PARTS FINE AGGREGATE AND 1 TO 2 PARTS COARSE AGGREGATE. SLUMP SHALL BE 8" TO 11".

CM7 FINE GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT AND 2 1/4 TO 3 PARTS FINE AGGREGATE.

CM8 REFER TO TYPICAL STRUCTURAL CMU WALL REINFORCING SCHEDULE FOR VERTICAL CMU WALL REINFORCING UNLESS NOTED OTHERWISE IN THE DRAWINGS. REFER TO TYPICAL MASONRY DIAGRAM FOR DOWELS BETWEEN FOUNDATION AND MASONRY WALLS AND OTHER REINFORCING.

CM9 HORIZONTAL WALL REINFORCING IN BOND BEAMS OR TROUGH BLOCK UNITS SHALL BE STRAIGHT, PLACED CONTINUOUSLY AND FULLY GROUTED IN PLACE. REFER TO SCHEDULES, SECTIONS AND DETAILS FOR SPECIFIED HORIZONTAL REINFORCING. SPLICE BARS WHERE REQUIRED PER TENSION LAP SCHEDULE FOR STEEL REINFORCING IN CMU MINIMUM, TYPICAL UNLESS NOTED OTHERWISE, AND TIE THEM WITH WIRE.

CM10 REFER TO SCHEDULES, SECTIONS AND DETAILS FOR REINFORCING IN GROUTED COLUMNS, PILASTERS AND BEAMS. CLEAR GROUT COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE 1".

CM11 CONTINUOUS HORIZONTAL JOINT REINFORCING:
- A. SINGLE WYTHE WALLS:
  1. CONTINUOUS HORIZONTAL WALL JOINT REINFORCING FOR SINGLE WYTHE WALLS SHALL BE GALVANIZED, **STANDARD,** TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- B. CAVITY WALLS:
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD, TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE") TIES, TRUSS TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- C. CAVITY WALLS WITH TOTAL THICKNESS GREATER THAN 1'-4".
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD,**TRUSS** TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE"), **TRUSS** TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- D. PROVIDE CONTINUITY AT CORNERS AND INTERSECTIONS WITH PREFABRICATED CORNER AND TEE UNITS.
- E. SPLICE STANDARD HORIZONTAL WALL JOINT WIRE REINFORCING 11" MINIMUM AND PROVIDE AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
- F. COVER FROM JOINT REINFORCING TO EDGE OF MORTAR SHALL BE 5/8".

CM12 PROVIDE SHOP DRAWINGS SHOWING DETAILS OF BENDING AND PLACEMENT OF MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF REINFORCED WALLS AT OPENINGS AND AT OTHER LOCATIONS WHERE THE SPECIFIED REINFORCING IS MORE INVOLVED THAN SIMPLE VERTICAL BARS AT A SPECIFIED SPACING.

CM13 UNGROUTED MASONRY WALL CELLS MAY BE REQUIRED TO BE FILLED WITH SAND, VERMICULITE OR PERLITE FOR FIRE RATING, SOUNDPROOFING OR OTHER PURPOSES. REFER TO THE ARCHITECTURAL DRAWINGS FOR THESE REQUIREMENTS.

CM14 WHERE NOT INDICATED IN THE STRUCTURAL DRAWINGS (EXCEPT AT GROUTED WIDE CAVITY WALLS), PROVIDE 3/8" VERTICAL THROUGH-WALL CONTROL JOINTS AT 5'-0" TO 12'-6" FROM CORNERS AND AT 25'-0" OC MAX. IN BETWEEN. THE ARCHITECTURAL DRAWINGS MAY INDICATE VERTICAL CONTROL JOINTS IN THE MASONRY FACADE AT EACH EDGE OF WALL OPENINGS. HOWEVER, CONTROL JOINTS IN THE BACKUP CMU SHALL NOT BE LOCATED WITHIN WALL OPENINGS, AT THE EDGE OF WALL OPENINGS OR WITHIN THE VERTICAL GROUTED CELLS AT EACH SIDE OF THE WALL OPENINGS, REGARDLESS OF WHERE THE CONTROL JOINTS ARE INDICATED IN THE ARCHITECTURAL DRAWINGS FOR THE MASONRY FACADE. COORDINATE JOINT LOCATIONS TO MISS BEAM AND JOIST BEARINGS. CUT ALL HORIZONTAL REINFORCING AT CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE GROUTED CELLS AND REINFORCING AT EACH SIDE OF THE JOINT THE SAME AS AT THE END OF THE WALL. SUBMIT JOINT LAYOUT TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING WALL CONSTRUCTION. FOR STRUCTURAL MASONRY WALLS THAT ARE SHOWN IN THE STRUCTURAL DRAWINGS, THIS CRITERIA FOR CONTROL JOINT LOCATIONS TAKES PRIORITY OVER JOINT LOCATIONS THAT MAY OR MAY NOT BE SHOWN IN THE ARCHITECTURAL DRAWINGS FOR STRUCTURAL MASONRY WALLS.

CM15 LIMIT GROUT POURS TO 12 FEET IN HEIGHT FOR 8" AND THICKER WALLS AND 5 FEET IN HEIGHT FOR 6" THICK WALLS. BETWEEN GROUT POURS, FORM CONSTRUCTION JOINT BY LEAVING GROUT 1 1/2 INCHES BELOW THE MORTAR JOINT (1/2 INCH AT BOND BEAMS).

CM16 CLEANOUTS ARE REQUIRED FOR GROUT POURS OVER 5 FT. PROVIDE CLEANOUTS IN THE BOTTOM COARSE OF THE GROUT POUR AT EVERY VERTICAL BAR MINIMUM. CLEANOUTS SHALL BE ON NON-FINISHED SIDE OF MASONRY CONSTRUCTION.

CM17 PROVIDE TEMPORARY LATERAL WALL BRACING AS REQUIRED UNTIL THE FLOOR AND ROOF CONSTRUCTION, INCLUDING ALL STRUCTURAL COMPONENTS, AT THE TOP AND THE BOTTOM OF THE WALLS HAVE BEEN COMPLETED.

CM18 THE FOLLOWING NOTES APPLY ONLY TO GROUTED CAVITY WALLS THAT USE BRICK/MASONRY BLOCKS AND JOINT REINFORCING AS A FORM FOR GROUTED COLUMNS, PILASTERS AND BEAMS WITHIN THE WALL.
- A. HORIZONTAL WALL JOINT REINFORCING FOR GROUTED CAVITY WALLS SHALL BE GALVANIZED **STANDARD, TRUSS TYPE** "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL UNLESS NOTED OTHERWISE. BOTH CROSS RODS AND SIDE RODS SHALL BE 3/16" IN DIAMETER. DO NOT USE ADJUSTABLE JOINT REINFORCING IN GROUTED CAVITY WALLS.
- B. PROVIDE Z TIES BETWEEN BRICK/MASONRY BLOCKS AND GROUT. Z TIES SHALL BE 3/16" DIAMETER X10" (TOTAL LENGTH) COLD DRAWN GALVANIZED WIRE WITH 2" LEG AT EACH END, CONFORMING TO ASTM A 82 TYPICAL. UNLESS NOTED OTHERWISE. PLACE ONE LEG IN MORTAR JOINT PARALLEL TO AND AT 3/4" FROM OUTSIDE FACE OF THE BRICK AND THE OTHER LEG IN GROUT.
  1. PLACE Z TIES AT 16" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL BRICK SURFACES, TYPICAL, UNLESS NOTED OTHERWISE.
  2. AT LINTEL BEAMS, PLACE Z TIES AT 8" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL (BOTTOM) BRICK SURFACES. Z TIES SHALL BE HOOKED AROUND 1/4" DIAMETER GALVANIZED RODS LOCATED IN THE HOLES THROUGH THE BOTTOM BRICKS.
- C. PROVIDE WEEP HOLES AT 2'-8" OC (2 WEEP HOLES MINIMUM) THROUGH THE EXTERIOR WYTHE OF THE MASONRY/BRICK VERTICAL JOINTS OVER FOUNDATION BEAMS/WALLS, BOND BEAMS, LINTEL BEAMS AND ALL OTHER PLACES WHERE CAVITY IS CONTINUOUSLY BLOCKED.
- D. INSULATION, WHERE SPECIFIED IN THE ARCHITECTURAL DRAWINGS, SHALL BE PLACED IN THE CAVITY IN STRIPS BETWEEN HORIZONTAL WALL JOINT REINFORCING AND SHALL NOT BE PLACED INTO GROUTED COLUMNS, PILASTERS OR BEAMS.

STATEMENT OF SPECIAL INSPECTIONS:

SI1 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE WITH LOCAL AMENDMENTS. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS SERVICES APPLICABLE TO THIS PROJECT.

SI2 THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS, APPROVED BY THE BUILDING OFFICIAL, TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION IN ACCORDANCE WITH BUILDING CODE. SPECIAL INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES.

SI3 THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT REPORTS OF INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATED THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. INTERIM TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED ON A DAILY BASIS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.

SI4 IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE REQUIRED SPECIAL INSPECTIONS AND TESTS ARE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

SI5 ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS AND TESTING PER THE BUILDING CODE ARE NOT LISTED HERE. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

SI6 THE FOLLOWING SPECIAL INSPECTIONS AND TESTS SCHEDULE CONTAINS A LIST OF THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS AND/OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK. REFER TO THE GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.

SPECIAL INSPECTIONS AND TESTS SCHEDULE PER IBC 2015

CHECK IF APPLICABLE	MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK	SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION
☐	STRUCTURAL STEEL	1705.2
■	CONCRETE CONSTRUCTION	1705.3
■	MASONRY CONSTRUCTION	1705.4
☐	WOOD CONSTRUCTION	1705.5
■	SOILS	1705.6
☐	DRIVEN DEEP FOUNDATIONS	1705.7
☐	CAST-IN-PLACE DEEP FOUNDATIONS	1705.8
☐	HELICAL PILE FOUNDATIONS	1705.9
☐	FABRICATED ITEMS	1705.10
☐	SPECIAL INSPECTIONS FOR WIND RESISTANCE	1705.11
☐	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	1705.12
☐	TESTING FOR SEISMIC RESISTANCE	1705.13

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 002

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

STRUCTURAL SUBMITTALS

SPECIFICATION SECTION	ITEM	FOR INFORMATION ONLY	FOR APPROVAL	SIGNED AND SEALED
03 10 00	FORMWORK SHOP DRAWINGS	X		X
03 10 00	MANUFACTURER'S PRODUCT DATA		X	
03 10 00	CONSTRUCTION JOINT LAYOUT	X		
03 11 31	VOID FORM PRODUCT DATA		X	
03 20 00	STEEL REINFORCING SHOP DRAWINGS		X	
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS		X	
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS		X	
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	X		
03 20 00	QUALIFICATION DATA	X		
03 20 00	WELDING CERTIFICATES	X		
03 30 00	CONCRETE MIX DESIGN		X	
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE		X	
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS		X	
03 30 00	PRODUCT DATA	X		
03 30 00	QUALIFICATION DATA	X		
03 30 00	MATERIAL TEST REPORTS	X		
03 30 00	FLOOR SURFACE FLATNESS	X		
03 30 00	FIELD QUALITY CONTROL REPORTS	X		
03 30 00	MINUTES OF PREINSTALLATION CONFERENCE	X		
04 22 00	CMU WALL SHOP DRAWINGS		X	
04 22 00	MIX DESIGN (MORTAR AND GROUT)		X	
04 22 00	MASONRY COMPRESSIVE STRENGTH		X	
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION		X	
04 22 00	MATERIAL CERTIFICATES	X		
04 22 00	COLD/HOT WEATHER PROCEDURES	X		
04 22 00	QUALIFICATION DATA	X		
06 10 00	PRODUCT DATA	X		
06 10 00	FASTENER PATTERNS		X	
06 10 00	MATERIAL CERTIFICATES	X		
06 10 00	EVALUATION REPORTS	X		
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS		X	
31 63 29	PIER CONCRETE MIX DESIGN		X	
31 63 29	PIER DRILLING LOG	X		

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIERS'S ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.

2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.

4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.

5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

DESIGN LOADS & DESIGN DATA

1.	BUILDING CODE		2015 INTERNATIONAL BUILDING CODE (IBC) / ASCE/SEI 7-10 WITH LOCAL AMENDMENTS	
2.	GRAVITY LOADS & DESIGN DATA			
	A.	DEAD LOADS	SELF WEIGHT	
	B.	SNOW LOADS		
	1.	GROUND SNOW LOAD, P_g	0 PSF	
	2.	FLAT ROOF SNOW LOAD, P_f	0 PSF	
	3.	SNOW EXPOSURE FACTOR, C_e	0.9	
	4.	SNOW RISK CATEGORY	III	
	5.	SNOW LOAD IMPORTANCE FACTOR, I	1.1	
	6.	THERMAL FACTOR, C_t	1.2	
3.	LATERAL LOADS & DESIGN DATA			
	A.	WIND DESIGN DATA		
	1.	BASIC WIND SPEED, V	139 MPH (3-SECOND GUST)	
	2.	WIND RISK CATEGORY	III	
	3.	WIND IMPORTANCE FACTOR, I	1.0	
	4.	WIND EXPOSURE CATEGORY	C	
	5.	INTERNAL PRESSURE COEFFICIENT, GC_{pi}	±0.18	
	C.	SEISMIC DESIGN DATA		
	1.	SEISMIC RISK CATEGORY	III	
	2.	SEISMIC IMPORTANCE FACTOR, I	1.25	
	3.	SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_s	0.042g	
	4.	1-SEC PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_1	0.014g	
	5.	SITE CLASS	D	
	6.	SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.045g	
	7.	1-SEC PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{D1}	0.022g	
	8.	SEISMIC DESIGN CATEGORY	A	
	9.	RESPONSE MODIFICATION FACTOR, R	2	
	10.	SYSTEM OVERSTRENGTH FACTOR, Ω	2.5	
	11.	DEFLECTION AMPLIFICATION FACTOR, Cd	2	
	12.	SEISMIC RESPONSE COEFFICIENT, Cs	0.028	
	13.	DESIGN BASE SHEAR, V	0.028W	
	14.	BASIC SEISMIC FORCE-RESISTING SYSTEM	NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
	15.	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	
4.	DEFLECTION LIMITS			
	C.	MEMBERS SUPPORTING MASONRY		
	1.	LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	L/600 or 0.3-INCH	

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 004

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:12:28 PM

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

SYMBOLS LEGEND

TOS EL 115'-0"	LEVEL ELEVATION
EL 115'-0"	SPOT ELEVATION
	VERTICAL BRACE
	LOAD BEARING CMU WALL AND/OR SHEARWALL
	LOAD BEARING CONC WALL AND/OR SHEARWALL
	MATCHLINE
4 / S3.10 — DETAIL / SECTION DESIGNATION	DETAIL / SECTION REFERENCE CUT
4 / S3.10	PARTIAL PLAN OR PLAN DETAIL REFERENCE
1 / S-201	VERTICAL BRACE, SHEARWALL OR TRUSS ELEVATION REFERENCE
	SLOPE IN STRUCTURE, DROP IN STRUCTURE, RIDGES AND VALLEYS
RTU-1 — UNIT DESIGNATION PER MEP DRAWINGS REF SCHED FOR FULL OPERATING WEIGHT	MEP EQUIPMENT
*FACTORED TOTAL LOAD; JOIST DEPTH; DDCJ XXX / YYY / ZZZ; *FACTORED POST COMPOSITE LIVE LOAD; *FACTORED POST COMPOSITE DEAD LOAD; *NOTE: ALL JOIST GIRDER POINT LOADS HOWEVER ARE SERVICE LEVEL.	COMPOSITE JOIST (CJ) KEY
STEEL COLUMN; STEEL BEAM; DENOTES MOMENT CONNECTION (REF TYPICAL STEEL DETAILS FOR MOMENT CONN REQUIREMENTS)	MOMENT CONNECTION
HSS6x6x1/4 BP1; SPECIAL BASE PL TYPE; F1; 97'-0"; FOOTING TYPE; TOP OF FOOTING ELEVATION	COLUMN, BASE PLATE AND FOUNDATION MARK
W10X33 BP1; SPECIAL BASE PL TYPE; P1; 97'-0"; PIER TYPE; TOP OF PIER ELEVATION	
NUMBER OF HEADED SHEAR STUDS (IF REQD); STL BEAM SIZE; VERT BEAM REACTION IN KIPS; BEAM CAMBER (INCHES) (IF REQD); HORIZONTAL COLLECTOR / DRAG FORCE IN KIPS ON BOTH SIDES OF COLUMN (IF REQD); 15K W14x22 (20) C=3/4" 15K; H=15K; [-6"]; TO BEAM IF DIFFERENT FROM REFERENCE EL; COLLECTOR / DRAG CONNECTION (IF REQD)	STEEL BEAM KEY

1 SYMBOLS LEGEND
1/8" = 1'-0"

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LOC	LOCATION
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ARCH	ARCHITECTURAL	LWC	LIGHT WEIGHT CONCRETE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MC	MOMENT CONNECTION
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BL	BLOCK LINTEL	MIN	MINIMUM
BM	BEAM	MISC	MISCELLANEOUS
BO	BOTTOM OF	MO	MASONRY OPENING
BOS	BOTTOM OF STEEL	MTL	METAL
BOT	BOTTOM	NIC	NOT IN CONTRACT
BP	BASE PLATE	NO	NUMBER
BRG	BEARING	NS	NEAR SIDE
BTWN	BETWEEN	NTS	NOT TO SCALE
CGS	CENTROID OF TENDONS	NWC	NORMAL WEIGHT CONCRETE (150 PCF)
CIP	CAST IN PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OH	OPPOSITE HAND
CJP	COMPLETE JOINT PENETRATION	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PCC	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
CONN	CONNECTION	PT	POST-TENSIONING INSTITUTE
CONC	CONCRETE	PE	PROFESSIONAL ENGINEER
CONST	CONSTRUCTION	PEMB	PRE-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PENTR	PENETRATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DBA	DOWEL BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT
DL	DEAD LOADS	PP	PARTIAL PENETRATION
DT	DOUBLE TEE	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EDC	ELECTRICAL DISTRIBUTION CENTER	PT	POST-TENSIONING
EF	EACH FACE	QTY	QUANTITY
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RAF	RAISED ACCESS FLOOR
EJ	EXPANSION JOINT	REF	REFER TO
EL	ELEVATION	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
EQ	EQUAL	REV	REVERSE
EQUIV	EQUIVALENT	RO	ROUGH OPENING
EW	EACH WAY	RTU	ROOF TOP UNIT
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SE	STRUCTURAL ENGINEER
EXT	EXTERIOR	SHT	SHEET
FABR	FABRICATOR	SIM	SIMILAR
FDN	FOUNDATION	SJI	STEEL JOIST INSTITUTE
FF	FINISHED FLOOR	SOG	SLAB ON GRADE
FM	FACTORY MUTUAL	SPECS	SPECIFICATIONS
FRP	FIBER REINFORCED PLASTIC	STAG	STAGGERED
FS	FAR SIDE	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
FV	FIELD VERIFY	STRUC	STRUCTURAL
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TC	TRANSFER COLUMN
GR	GRADE	THK	THICKNESS
GYP BD	GYPSUM BOARD	TO	TOP OF
H	HEIGHT	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOF	TOP OF FOOTING
HSA	HEADED STUD ANCHOR	TOGB	TOP OF GRADE BEAM
IBC	INTERNATIONAL BUILDING CODE	TOM	TOP OF MASONRY
INFO	INFORMATION	TOP	TOP OF PAVING
INT	INTERIOR	TOS	TOP OF STEEL
ISO	ISOLATION	TOSC	TOP OF STRUCTURAL CONCRETE
IT	INVERTED TEE	TOW	TOP OF WALL
JBE	JOIST BEARING ELEVATION	TRANS	TRANSVERSE
JST	JOIST	T&S	TEMPERATURE AND SHRINKAGE
JT	JOINT	TYP	TYPICAL
KIP	1000 POUNDS	UL	UNDERWRITERS LABORATORIES
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
L	LENGTH	VERT	VERTICAL
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE	W	WIDTH
LB	POUNDS	WP	WORK POINT
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC

2 ABBREVIATION LEGEND
12" = 1'-0"

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
A G & E Structural Engenuity

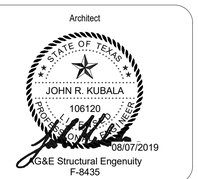
PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect



G&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

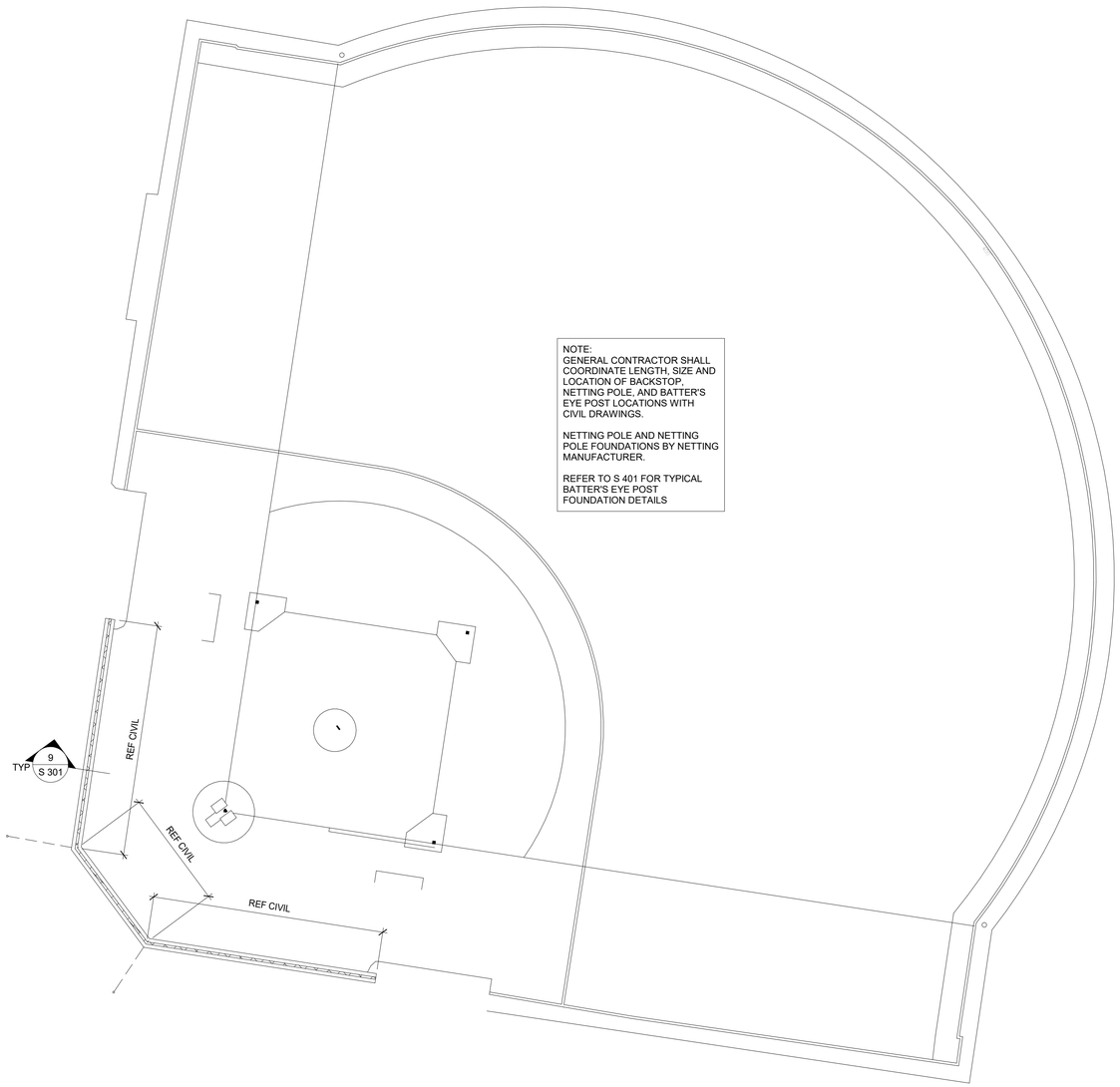
No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 005

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



NOTE:
GENERAL CONTRACTOR SHALL COORDINATE LENGTH, SIZE AND LOCATION OF BACKSTOP, NETTING POLE, AND BATTER'S EYE POST LOCATIONS WITH CIVIL DRAWINGS.

NETTING POLE AND NETTING POLE FOUNDATIONS BY NETTING MANUFACTURER.

REFER TO S 401 FOR TYPICAL BATTER'S EYE POST FOUNDATION DETAILS

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:

   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

1 SOUTHWEST HIGH SCHOOL BASEBALL SITE PLAN
1" = 30'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/2019
REVISIONS

No.	Description	Date

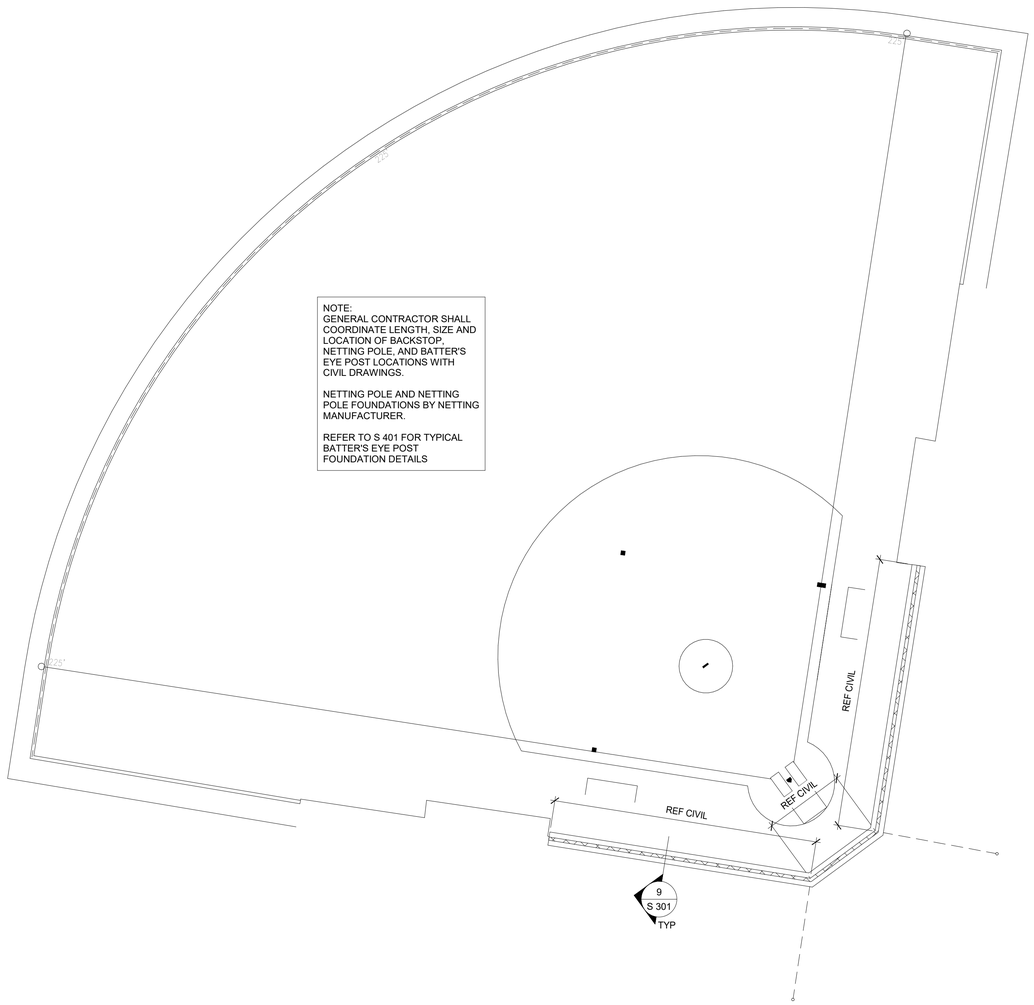
ISSUED FOR PROPOSAL

SOUTHWEST HS BASEBALL SITE PLAN

S 103

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



1 SOUTHWEST HIGH SCHOOL SOFTBALL SITE PLAN
3/64" = 1'-0"

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS

500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

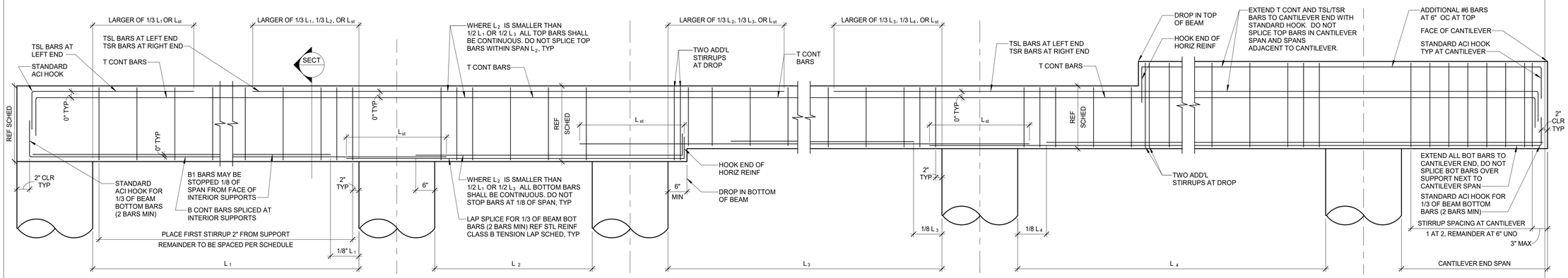
ISSUED FOR PROPOSAL

SOUTHWEST HS
SOFTBALL SITE PLAN

S 203

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:12:28 PM

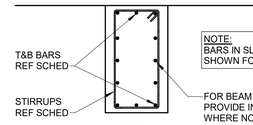
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



TYP END SUPPORT | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP INT SUPPORT** | **TYP CANTILEVER SUPPORT**

NOTES:
1. L_{st} = LAP SPLICE LENGTH - REF TYP STL REINF CLASS B TENSION LAP SCHED
2. SCHEDULED LEFT AND RIGHT END OF MEMBERS READ ON PLAN AS LEFT AND RIGHT OF THE SHEET OR BOTTOM AND TOP OF THE SHEET RESPECTIVELY AS SHOWN BELOW. SCHEDULED LEFT AND RIGHT END OF MEMBERS SHOWN DIAGONALLY ON PLAN READ AS LEFT AND RIGHT ON SHEET AS SHOWN BELOW:

3. T CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
4. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
5. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.



SECTION

7 TYPICAL CONCRETE GRADE BEAM BAR PLACING DIAGRAM
3/4" = 1'-0"

6 TYPICAL VERTICAL SLEEVES IN CONCRETE BEAMS
3/4" = 1'-0"

PLAN

5 TYPICAL BEAM STEP
3/4" = 1'-0"

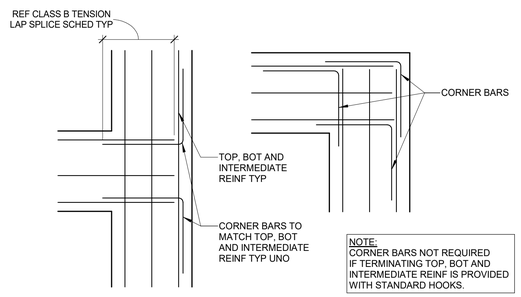
4 TYPICAL HORIZONTAL OPENING IN BEAM
3/4" = 1'-0"

ELEVATION

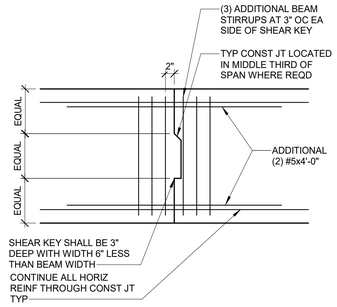
NOTES:
1. LOCATE BEAM OPENING IN MIDDLE 1/3 OF BEAM SPAN, 6" CLEAR FROM INTERSECTING BEAMS OR JOISTS AND 1.5H AWAY FROM FACE OF SUPPORT.
2. CONTACT EOR FOR ANY OPENING NOT MEETING THESE CONDITIONS.
3. OPENINGS/SLEEVES SHALL PASS THROUGH BEAMS IN RIGHT ANGLES.

a = SMALLER OF H/4 OR 1'-0"
b = SMALLER OF H/4 OR 1'-0"
c = LARGER OF 3a OR 3b OR 6"

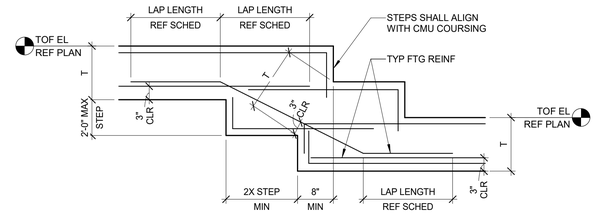
3 TYPICAL CORNER BAR REINFORCING
3/4" = 1'-0"



2 TYPICAL BEAM CONST JT
3/4" = 1'-0"



1 TYP FOOTING STEP
3/4" = 1'-0"



PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

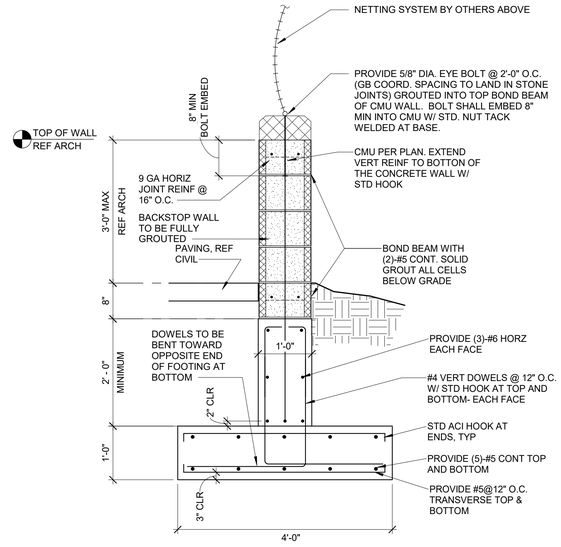
ISSUED FOR PROPOSAL

PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS

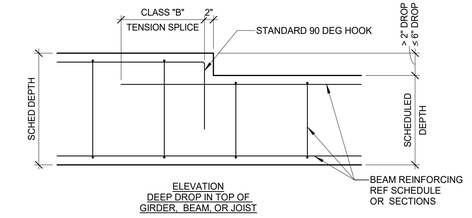
S 300

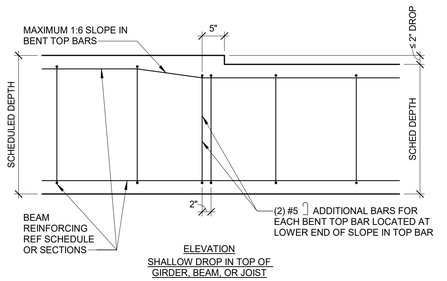
Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
PH: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

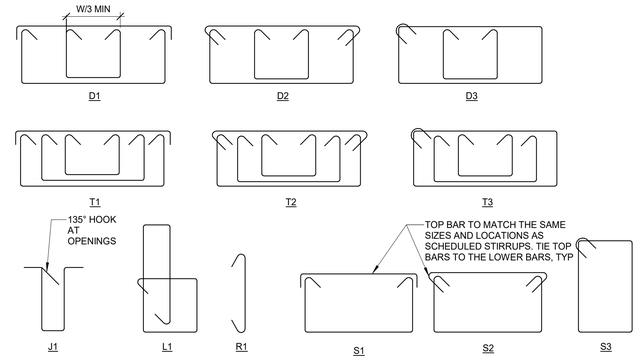


9 BACKSTOP DETAIL
3/4" = 1'-0"

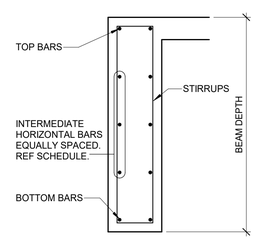




8 TYPICAL DETAIL OF REINFORCING AT SLAB/BEAM STEP
3/4" = 1'-0"



6 STIRRUP TYPES AT GRADE BEAMS
3/4" = 1'-0"



INTERMEDIATE BAR SCHEDULE

BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

NOTES:
1. ALTERNATE LAP SPLICE INTERMEDIATE BARS BETWEEN SUPPORT AND MIDSPAN. PROVIDE STANDARD ACI HOOK AT DISCONTINUOUS ENDS.
2. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE.
3. WHERE "EXTRA INTERMEDIATE BARS" ARE SCHEDULED, PROVIDE SCHEDULED BARS IN LIEU OF THOSE REQUIRED BY THIS DETAIL.

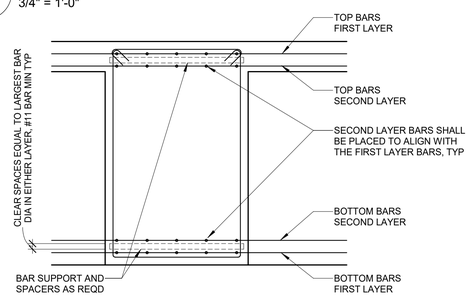
5 TYPICAL INTERMEDIATE BAR SCHEDULE
3/4" = 1'-0"

STEEL REINF CLASS B TENSION LAP SPLICE SCHEDULE L_{st}

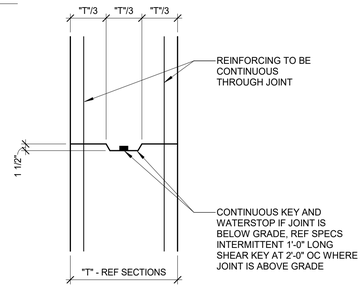
	3000 PSI CONC		4000 PSI CONC		5000 PSI CONC		6000 PSI CONC		7000 PSI CONC		8000 PSI CONC	
	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER
#6 AND SMALLER BARS	74db	57db	64db	50db	58db	44db	53db	41db	49db	38db	46db	35db
#7 TO #11 BARS	93db	71db	81db	62db	72db	55db	66db	51db	61db	47db	57db	44db

NOTES:
1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON EPOXY COATED REINFORCING.
2. TYPICAL IS FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 13".
3. FOR EPOXY COATED TYPICAL BARS, INCREASE SPLICE LENGTHS BY 31%. FOR EPOXY COATED OTHER BARS, INCREASE SPLICE LENGTHS BY 50%.
4. FOR LIGHTWEIGHT CONCRETE, INCREASE SPLICE LENGTHS BY 33%.
5. FOR GRADE 75 REBARS, INCREASE SPLICE LENGTHS BY 25%.
6. FOR #7 T0 #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, INCREASE SPLICE LENGTHS BY 50%.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFACTION FACTORS SHALL NOT BE LESS THAN 12".

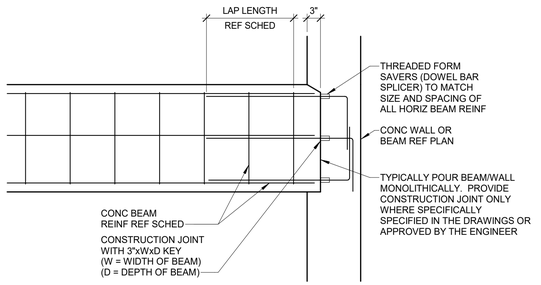
7 TYPICAL STEEL REINF CLASS B TENSION LAP SCHEDULE
3/4" = 1'-0"



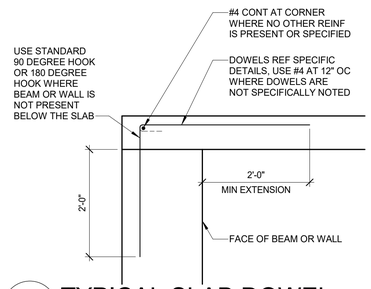
4 TYPICAL DETAIL OF MULTIPLE LAYERS OF BEAM REINFORCING
3/4" = 1'-0"



3 TYPICAL HORIZONTAL CONSTRUCTION JOINT IN WALL OR BEAM
3/4" = 1'-0"



2 CONCRETE BEAM CONNECTION TO WALL OR BEAM
3/4" = 1'-0"



1 TYPICAL SLAB DOWEL
3/4" = 1'-0"

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

TYPICAL FOUNDATION DETAILS

S 301

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU	
BAR SIZE	LAP SPLICE LENGTH (INCHES)
3	19
4	34
5	45
6	54
7	63
8	72
9	82

NOTES:
1. FOR GRADE 60 NON-EPOXY COATED REINFORCING.
2. FOR EPOXY COATED REINFORCING, INCREASE TABULATED LENGTHS BY 50%.

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU

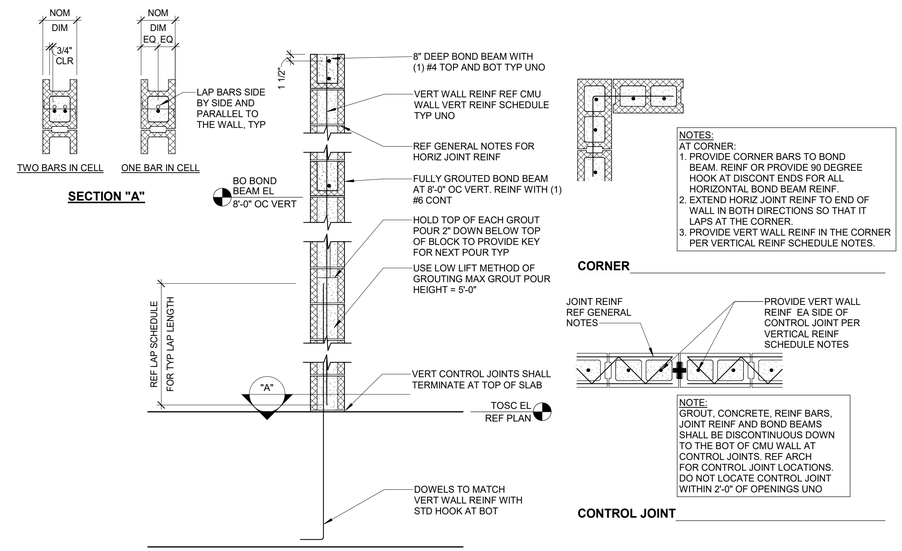
3 — 12" = 1'-0"

STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE		
WALL DESIGNATION	MAX UNBRACED WALL HEIGHT	EXTERIOR WALL VERTICAL REINF
12" CMU	3'-0"	#6 AT 16" OC

1. THIS SCHEDULE ONLY APPLIES TO CMU WALLS SHOWN AND DESIGNATED ON THE STRUCTURAL FRAMING PLANS. CMU WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS ARE NOT PART OF THE STRUCTURAL FRAME AND ARE CONSIDERED NON-STRUCTURAL CMU.
2. REFER TO THE "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" ON THIS SHEET FOR MINIMUM REQUIRED REINFORCING AT ARCHITECTURAL (NON STRUCTURAL) CMU WALLS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS. REFER TO "TYPICAL WALL REINFORCING DIAGRAM" FOR ADDITIONAL INFORMATION.
4. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEEN INSTALLED AND CONNECTED TO THE STEEL FRAMING.
5. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
6. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
7. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
8. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
9. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

TYPICAL STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE

1A — 3/4" = 1'-0"



TYPICAL CMU WALL REINFORCING DIAGRAM

1 — 3/4" = 1'-0"

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

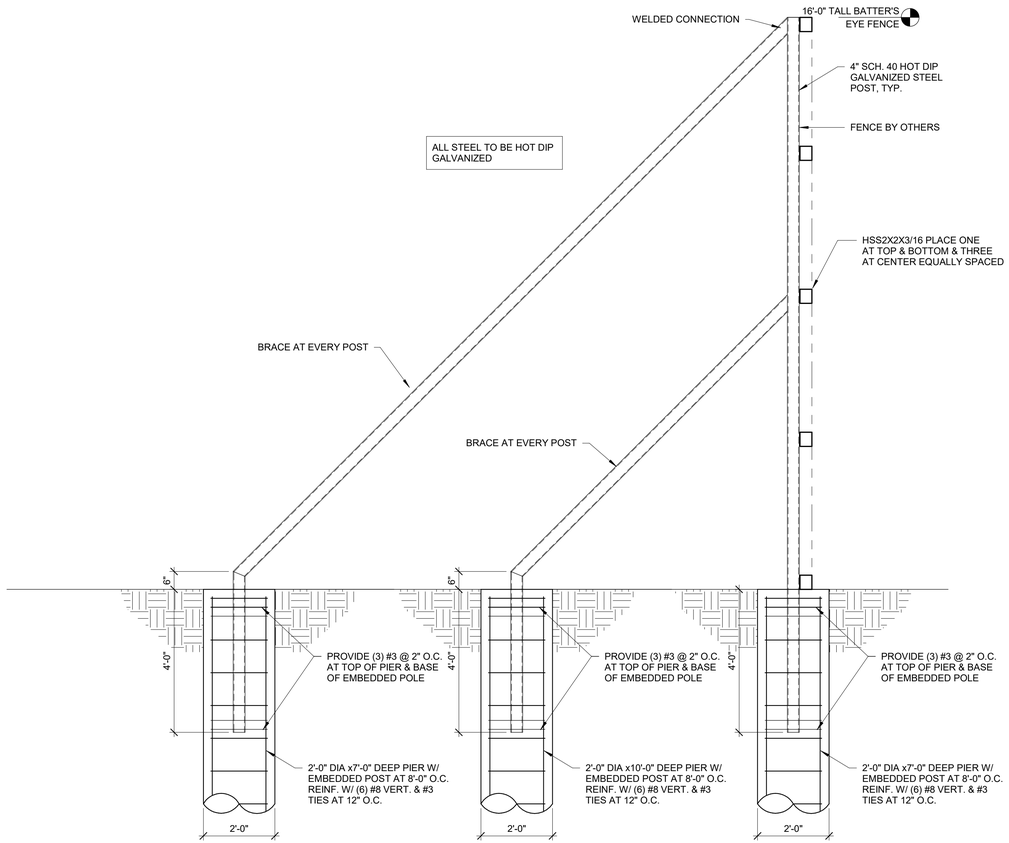
No.	Description	Date

ISSUED FOR PROPOSAL

TYPICAL CMU DETAILS AND SCHEDULES

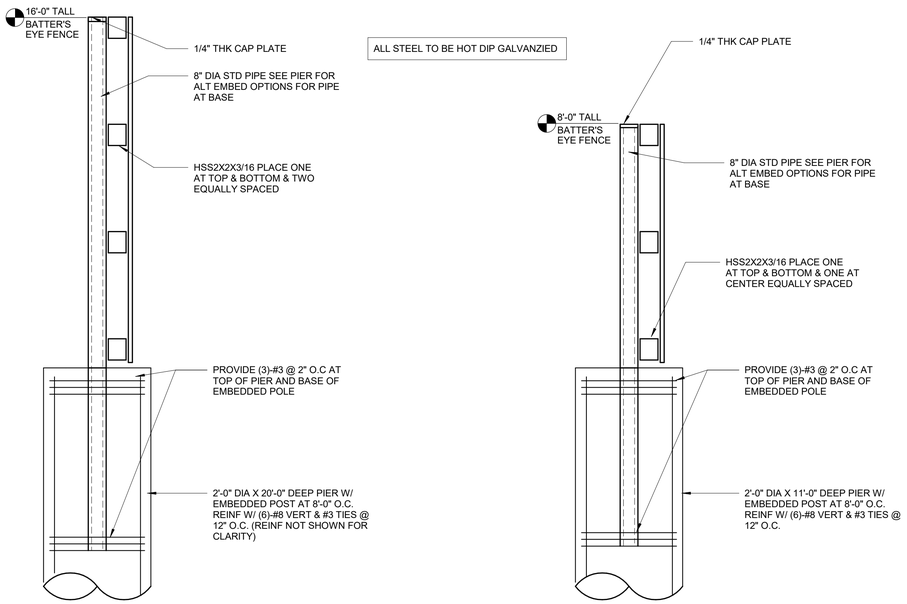
S 400

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



4 16FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"

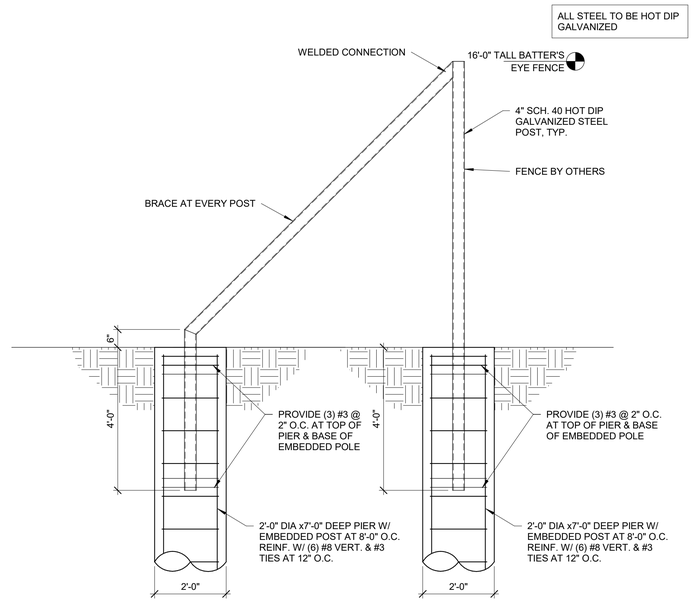


16 FEET TALL FENCE DETAIL

8 FEET TALL FENCE DETAIL

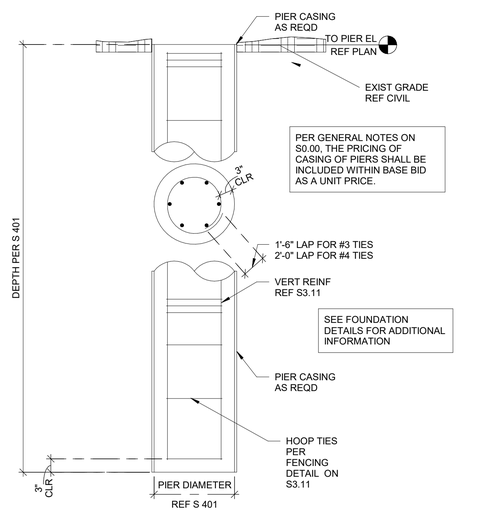
2 TYPICAL FENCING ELEVATION

3/4" = 1'-0"



3 8FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"



1 FENCING STRAIGHT SHAFT DETAIL

3/4" = 1'-0"

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF BASEBALL AND SOFTBALL FIELD
PSJA SOUTHWEST ECHS
500 E NOLANA LOOP
PHARR, TX 78577

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

FOUNDATION DETAILS AND ELEVATIONS

S 401

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\Southwest High School\CS-SOUTHWEST HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:12:28 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PHARR-SAN JUAN-ALAMO ISD

PSJA ECHS

SOFTBALL FIELD UPGRADES

August 7, 2019

BOARD OF TRUSTEES

PRESIDENT	VICE PRESIDENT	SECRETARY-TREASURER	ASSISTANT SECRETARY-TRESURER	MEMBER	MEMBER	MEMBER	SUPERINTENDENT
JESUS "JESSE" ZAMBRANO	JORGE "GEORGE" PALACIOS	JORGE ZAMBRANO	RICARDO "RICK" PEDRAZA	VICTOR PEREZ	JESUS "JESSE" VELA, JR.	CARLOS G. VILLEGAS, JR	DANIEL P. KING, PhD

OWNER / PROJ. MAN.

PSJA ISD ADMINISTRATION BUILDING
601 E. KELLY
PHARR, TEXAS 78577
936-354-2000 P

ENGINEER

PBK ENGINEERS
CONTACT: TREY SCHNEIDER
11 GREENWAY PLAZA
22ND FLOOR
HOUSTON, TX 77046
713-965-0608 P
713-961-4571 F

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES
805 W. RIDGE ROAD
SAN JUAN, TX 78589
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CA 000

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SPD\Vit8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 000 COVER SHEET.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 5:24:36 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE JOBSITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
6. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
7. TOPOGRAPHIC SURVEY BY: RIO DELTA SURVEYING
   TBPLS FIRM # 10013900
   24593 FM 88
   MONTE ALTO, TX 78538
   P: 956-262-0222 P: 956-380-5154
8. BENCHMARK: SEE SURVEY
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT, HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO INSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT HIS EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED. (800) 344-8377.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR SHALL COORDINATE THE RELOCATION AND PAY ANY FEES.
20. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS.
21. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
22. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
23. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

UTILITY NOTES

24. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
25. HE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
26. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
27. BEDDING AND BACKFILL SHALL BE SUBSIDIARY TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL WATER AND SEWER MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIALS AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE CONTRACTOR SHALL REPLACE THE DEFECTIVE MATERIAL WITH SOUND MATERIAL AT HIS OWN EXPENSE.
29. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
30. ALL STORM SEWER TO BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR / SMOOTH INTERIOR PIPE WITH WATER TIGHT JOINTS PER ASTM D 3212 UNLESS OTHERWISE OR SPECIFICALLY NOTED.
31. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS / SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE.
32. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" (SIX INCHES) VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND AT STORM SEWER AND SANITARY SEWER CROSSINGS, AND A MINIMUM OF 12" (TWELVE INCHES) VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
33. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
34. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED AT HIS EXPENSE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND/OR AS DIRECTED BY THE ENGINEER.

UTILITY NOTES

36. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
37. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
38. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
39. THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL AN INCIDENTAL AMOUNT FOR THE SAW CUTTING, REMOVAL AND REPLACEMENT OF PAVEMENT AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING PAVEMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT TYPE, THICKNESS AND GRADES.
40. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND WORK UPSTREAM. THE CONTRACTOR SHALL ALSO VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. PIPE SHALL BE INSTALLED WITH THE BELLS AT THE UPSTREAM END.
41. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL (800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
42. CAUTION: UNDERGROUND GAS FACILITIES
    GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 OR (800) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED
    * WHEN GAS LINE MARKINGS ARE NOT VISIBLE CALL (713) 967-8037 (7:00 AM-4:30 PM)
    FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
    * WHEN EXCAVATING WITHIN 18" OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
    * WHEN GAS FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

    THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
43. WARNING: OVERHEAD ELECTRICAL FACILITIES
    OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN 6' OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY 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 REMOVED CALL POWER COMPANY AT (713) 207-2222 (CENTERPOINT).

    WARNING: UNDERGROUND ELECTRICAL FACILITIES
    UNDERGROUND ELECTRICAL FACILITIES MAY EXIST ON THE PROPERTY. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL THE UCC AT 811, OR TOLL FREE AT (800) 669-8344, TO VERIFY THAT NO UNDERGROUND FACILITIES EXIST.
44. ALL UNDERGROUND PIPE SHALL HAVE A 12 GAUGE METALLIC TRACER WIRE RUNNING THE FULL LENGTH OF THE PIPE. TRACER WIRE SHALL BE TAPED TO THE PIPE AT INTERVALS NOT TO EXCEED 15 FEET USING DUCT TAPE.

PAVING AND GRADING NOTES

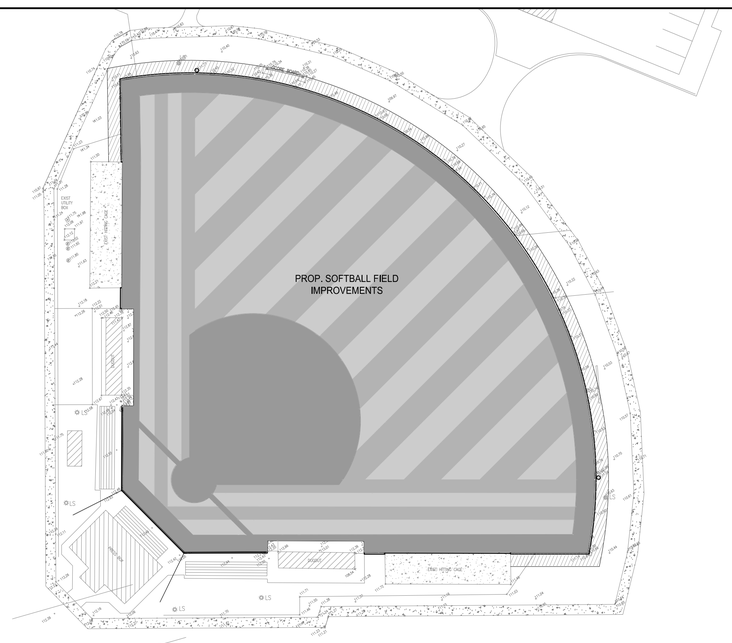
45. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
46. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
47. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
48. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
50. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
51. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
52. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED, REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
53. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, INSTALL 3/4" SMOOTH DOWELS, (18" LONG AND 18" C-C), BY DRILLING 8" INTO THE CENTER OF THE EXISTING SLAB AND EMBEDDING WITH EPOXY. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
54. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
55. SECURE PRECAST CONCRETE WHEEL STOPS BY DRILLING AND SETTING #4 DOWELS INTO PAVEMENT.
56. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
57. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL NEW CURBS, DRIVES, MOW STRIPS AND /OR WALKS.
58. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
59. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.

CIVIL LEGEND

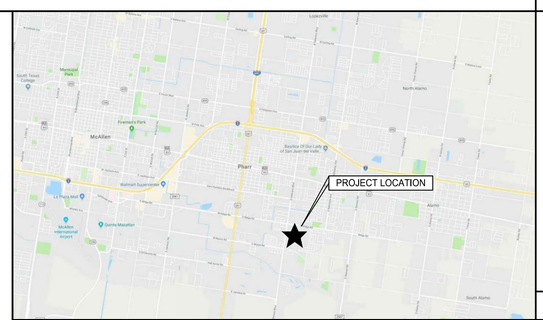
201	PROPOSED CONTOUR
	PROPOSED CATCH BASIN (C-1)
	PROPOSED "A" INLET (A-1)
	PROPOSED "E" INLET (E-1)
	PROPOSED STORM MANHOLE W/ GRATE TOP
	PROPOSED MANHOLE
	PROPOSED H-2 OR JUNCTION BOX INLET
	GATE VALVE & BOX
	PIPE SLEEVES
	PROP. 45° EL
	TAPPING SLEEVE & VALVE
TC	TOP OF CURB ELEVATION
TP	TOP OF PAVEMENT ELEVATION
TG	TOP OF GRATE ELEVATION
TR	TOP OF RIM (MANHOLE)
FG	FINISH GRADE ELEVATION
FL	FLOWLINE ELEVATION
TFL	THROAT FLOWLINE ELEVATION ("E" INLET)
FH	FIRE HYDRANT
MH	MANHOLE
CO	CLEAN OUT
DCO	DOUBLE CLEAN OUT
DS	DOWNSPOUT COLLECTOR
NIC	NOT IN CONTRACT
RD	ROOF DRAIN COLLECTOR
GV	GATE VALVE
STM	STORM SEWER
SAN	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
FFF	FILTER FABRIC FENCE
RFB	REINFORCED FABRIC BARRIER
IPB	INLET PROTECTION BARRIER
X	EXPANSION JOINT
L	LONGITUDINAL CONSTRUCTION JOINT
LT	LONGITUDINAL-TIED CONSTRUCTION JOINT
T	TRANSVERSE CONTRACTION JOINT
S	SAWED PAVEMENT JOINT
UE	UTILITY EASEMENT
SSE	SANITARY SEWER EASEMENT
EP	EDGE OF PAVEMENT
HB	HIGH BANK OF DITCH
CL	CENTERLINE OF DITCH
PP	POWER POLE
GW	GUY WIRE
GM	GAS METER
PB	PHONE BOX
FC	FENCE CORNER
CB	CABLE BOX
NG	NATURAL GROUND
+TP XX.XX	EXISTING ELEVATION
+TP XX.XX	PROPOSED ELEVATION

GENERAL NOTES

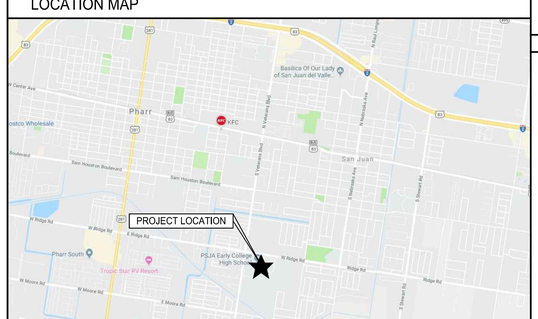
SITE PLAN



LOCATION MAP



VICINITY MAP



PERMITTING INFORMATION

PROJECT NAME:
PHARR-SAN JUAN-ALAMO ISD
PSJA COLLEGIATE HIGH SCHOOL
SYNTHETIC TURF SOFTBALL FIELD

LEGAL DESCRIPTION:
P-S-J-A I.S.D. SAN JUAN
HIGH SCHOOL LOT 1
ABST P000500

PHYSICAL ADDRESS:
805 W RIDGE ROAD
SAN JUAN, TX 78589

INDEX OF DRAWINGS

SHEET	DESCRIPTION
CA 000	COVER
CA 001	INDEX, NOTES, AND LEGENDS
CA 002	SURVEY (FOR INFORMATION ONLY)
CA 003	SOFTBALL EROSION CONTROL PLAN
CA 100	DEMOLITION PLAN
CA 101	SOFTBALL SITE PLAN
CA 102	SOFTBALL DRAINAGE PLAN
CA 103	SOFTBALL SUBGRADE GRADING PLAN
CA 104	SOFTBALL STONE GRADING PLAN
CA 105	SOFTBALL IRRIGATION PLAN
CA 106	SOFTBALL DETAILS
CA 107	SOFTBALL DETAILS
CA 108	SOFTBALL DETAILS
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 204	PSJA HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL ENGINEER
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

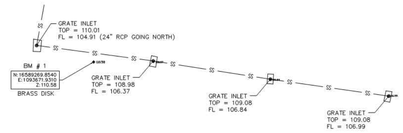
No.	Description	Date

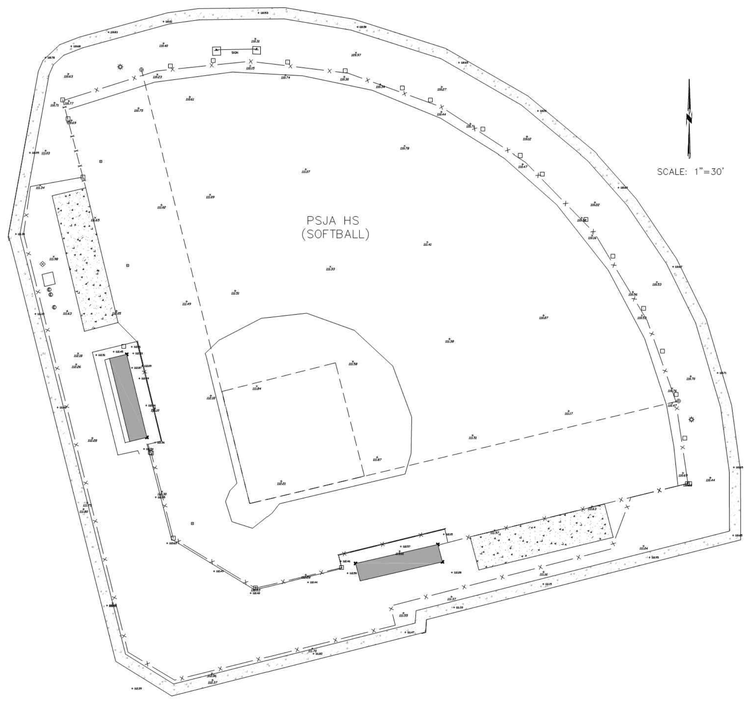
ISSUE FOR PROPOSALS

INDEX, NOTES AND LEGENDS

CA 001

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dv6-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 001 INDEX, NOTES AND LEGENDS.dwg Last Saved: AGLUZMAN
Wednesday, August 7, 2019 10:42:47 AM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER





SCALE: 1"=30'

LEGEND

- CONCRETE SURFACE
- UTILITY BOX
- ELECTRIC METER
- grate INLET
- IRRIGATION CONTROL BOX
- LIGHT POLE
- fence post
- sign
- BLDG (DUG OUT)
- FOUL BALL POST
- fence
- STORM SEWER PIPE
- BM BRASS DISK

EXISTING CONDITIONS AT PSJA–HIGH SCHOOL SOFTBALL FIELD

STATE OF TEXAS
JOSE MARIO GONZALEZ
5571
REGISTERED PROFESSIONAL LAND SURVEYOR

06-28-2019

RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SURVEY (FOR INFORMATION ONLY)

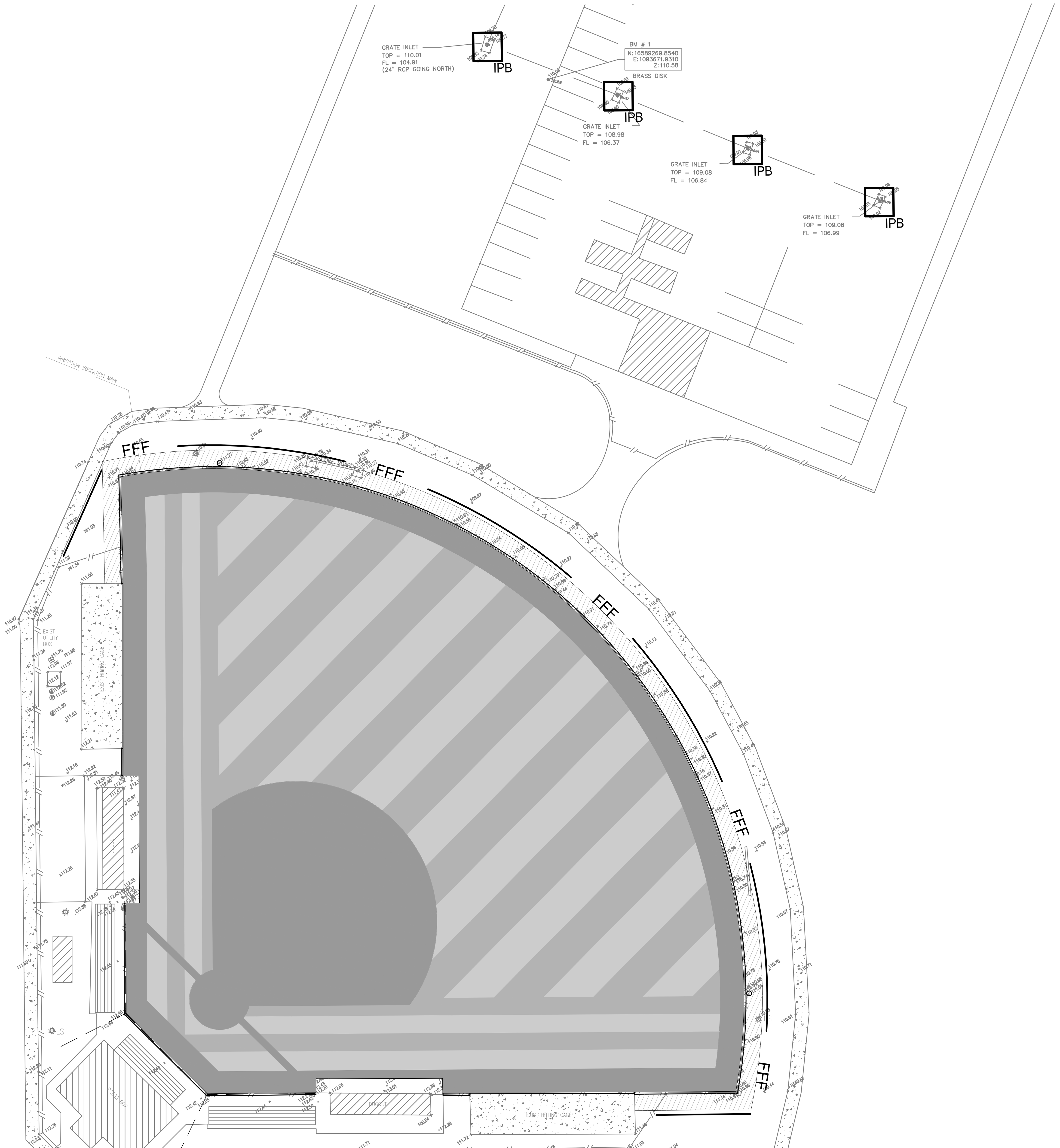
CA 002

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 002 SURVEY (FOR INFORMATION ONLY).dwg Last Saved: DRODRIGUEZ
Tuesday, August 6, 2019 10:06:13 AM

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 003 SOFTBALL EROSION CONTROL PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 3:04:05 PM

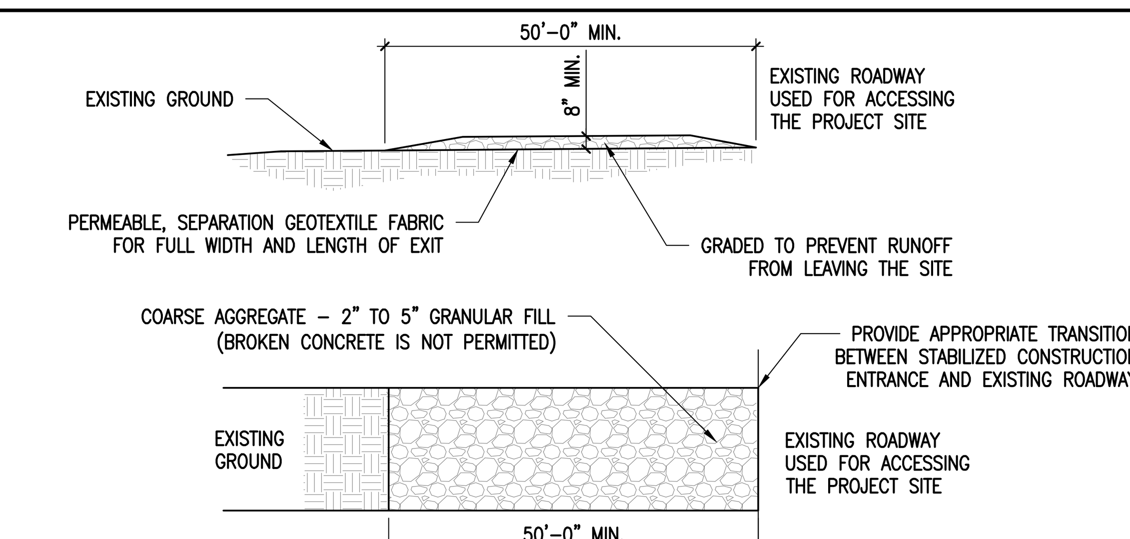
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

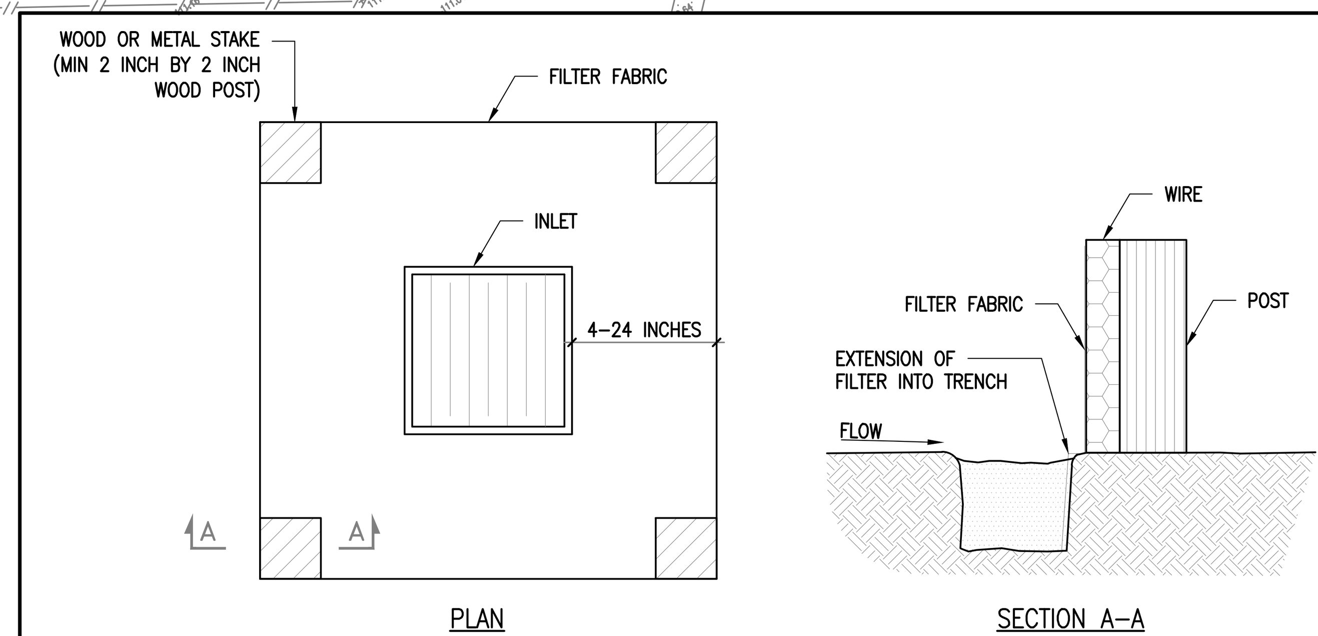
15 30
30 0 60

LEGEND	
IPB	INLET PROTECTION BARRIER
—— FFF ——	FILTER FABRIC FENCE



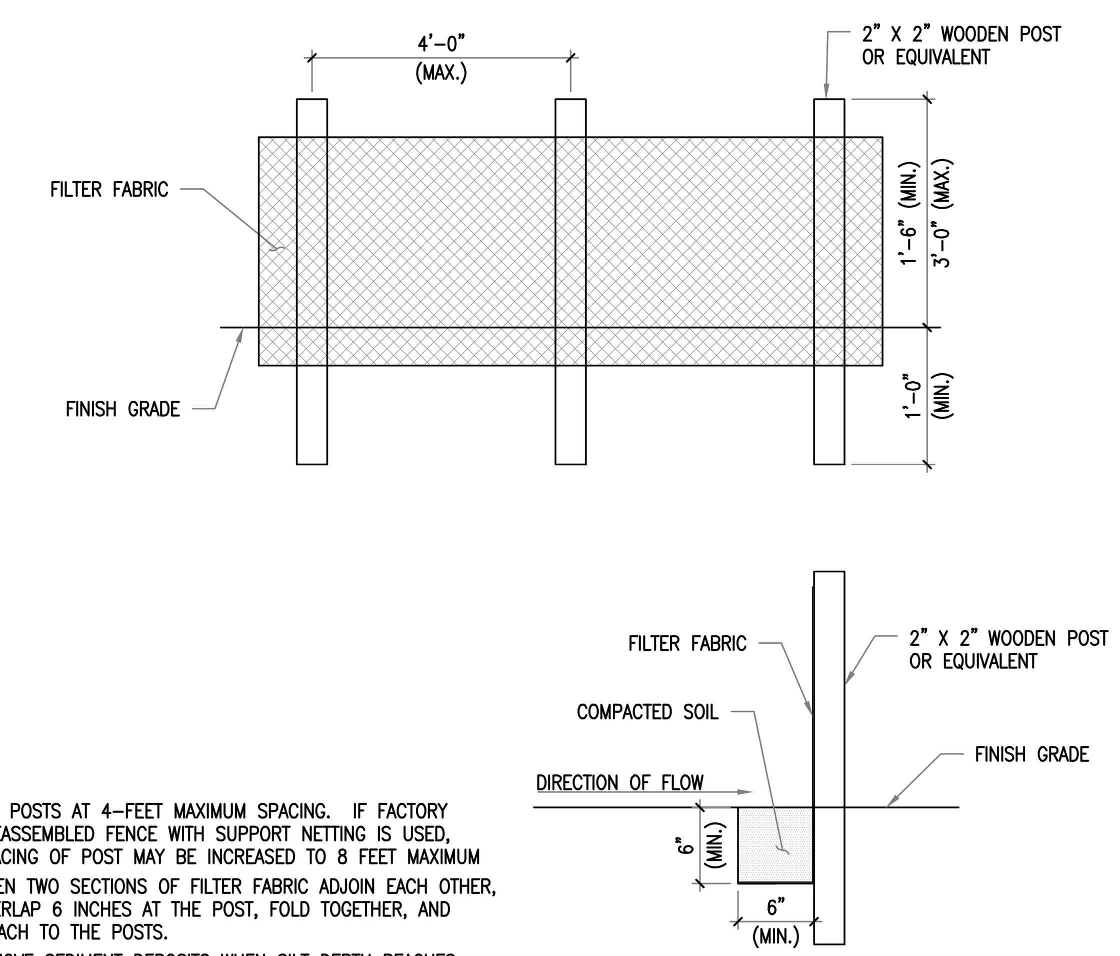
NOTES:
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:
   CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

3 STABILIZED CONSTRUCTION ENTRANCE



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

2 SILT FENCE INLET PROTECTION BARRIER (IPB)



NOTES:
1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

1 FILTER FABRIC FENCE (FFF)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
08/07/2019

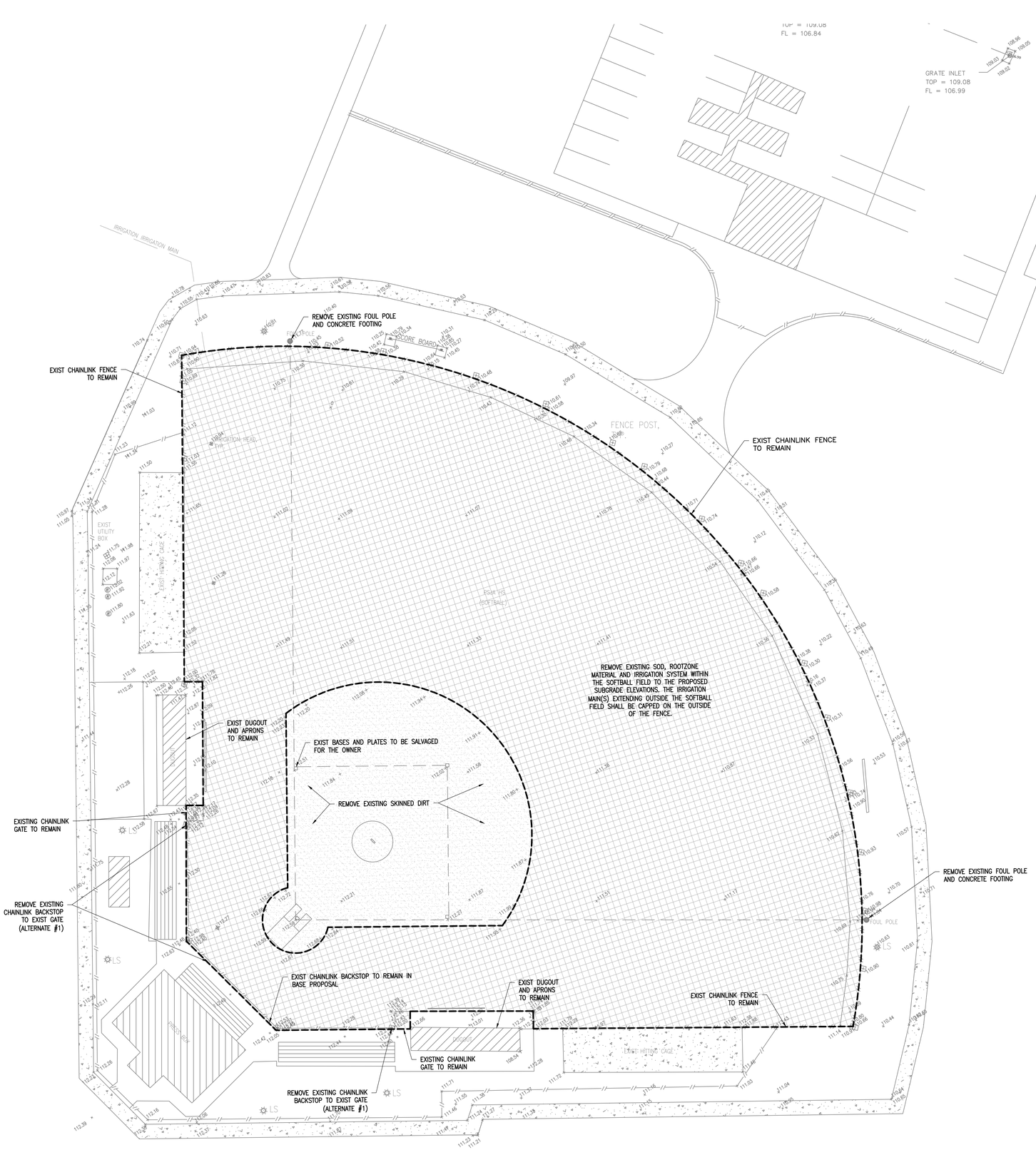
CLIENT
PSJA ISD
PROJECT NUMBER
19141SP

DATE	08/07/19	
REVISIONS		
No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL EROSION CONTROL PLAN

CA 003



NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF SYNTHETIC TURF FIELD REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
LICENSED
PROFESSIONAL
LANDSCAPE ARCHITECT
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

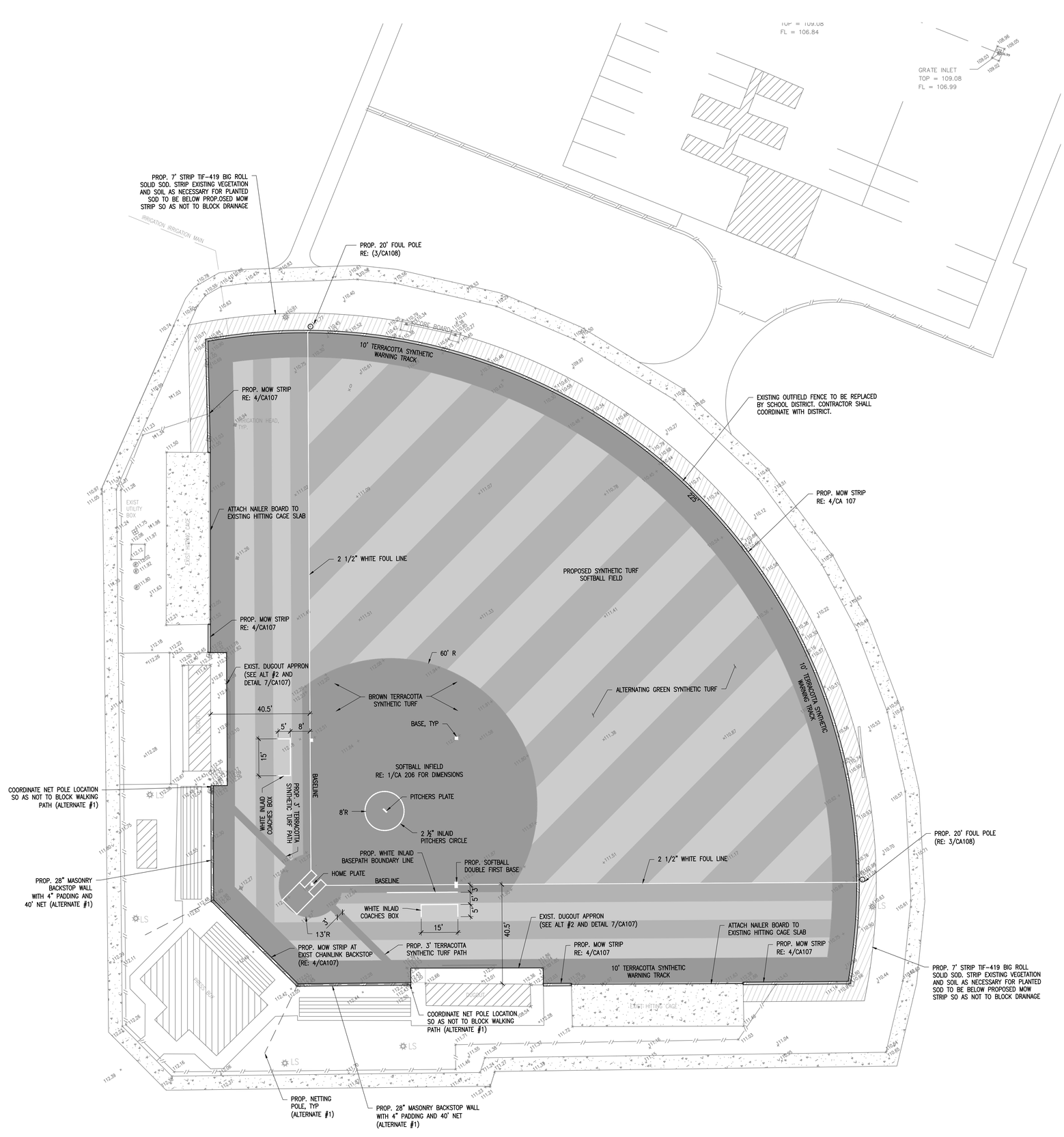
No.	Description	Date

ISSUE FOR PROPOSALS

DEMOLITION PLAN

CA 100

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dlv8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 100 DEMOLITION PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 3:07:25 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON SYNTHETIC TURF.
2. REFER TO THE COLOR RENDERINGS IN THE SPECIFICATIONS FOR TURF COLOR AND DETAIL.
3. SALVAGE BASES, HOME PLATE, AND PITCHER'S PLATE FOR OWNER.
4. THE SYNTHETIC TURF SYSTEM SHALL BE A RUBBER-SAND INFILLED SYNTHETIC TURF SYSTEM INSTALLED OVER A FREE-DRAINING STONE BASE.
5. THE ALTERNATE BACKSTOP NETTING SYSTEM SHALL NOT HAVE ANY POLES ALONG THE BACKSTOP WALL OTHER THAN ADJACENT TO DUGOUTS.
6. COORDINATE POSITION OF BACKSTOP NETTING POLES WITH EXISTING LIGHT POLES TO AVOID BLOCKING ANY FIELD LIGHTING

ALTERNATES

ALTERNATE #1: PROVIDE 28' MASONRY BACKSTOP WALL WITH 40' NETTING SYSTEM AT ALL SOFTBALL FIELDS AND WITH 60' NETTING SYSTEM AT ALL BASEBALL FIELDS.

ALTERNATE #2: PROVIDE CONCRETE TURF CURB EXTENSION ALONG ALL EDGES OF EXISTING DUGOUT APRONS AT EACH FIELD

ALTERNATE #3: PROVIDE BROCK FILL INFILL WITH SP14 SHOCK PAD BY BROCK AT EACH FIELD. CONTRACTOR SHALL INCLUDE IN ALTERNATE PROPOSAL THE COST FOR ADDITIONAL EXCAVATION TO ACCOMMODATE THE SHOCK PAD THICKNESS AND MAINTAIN THE 6" STONE AND 6" STABILIZED SUBGRADE DEPTHS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

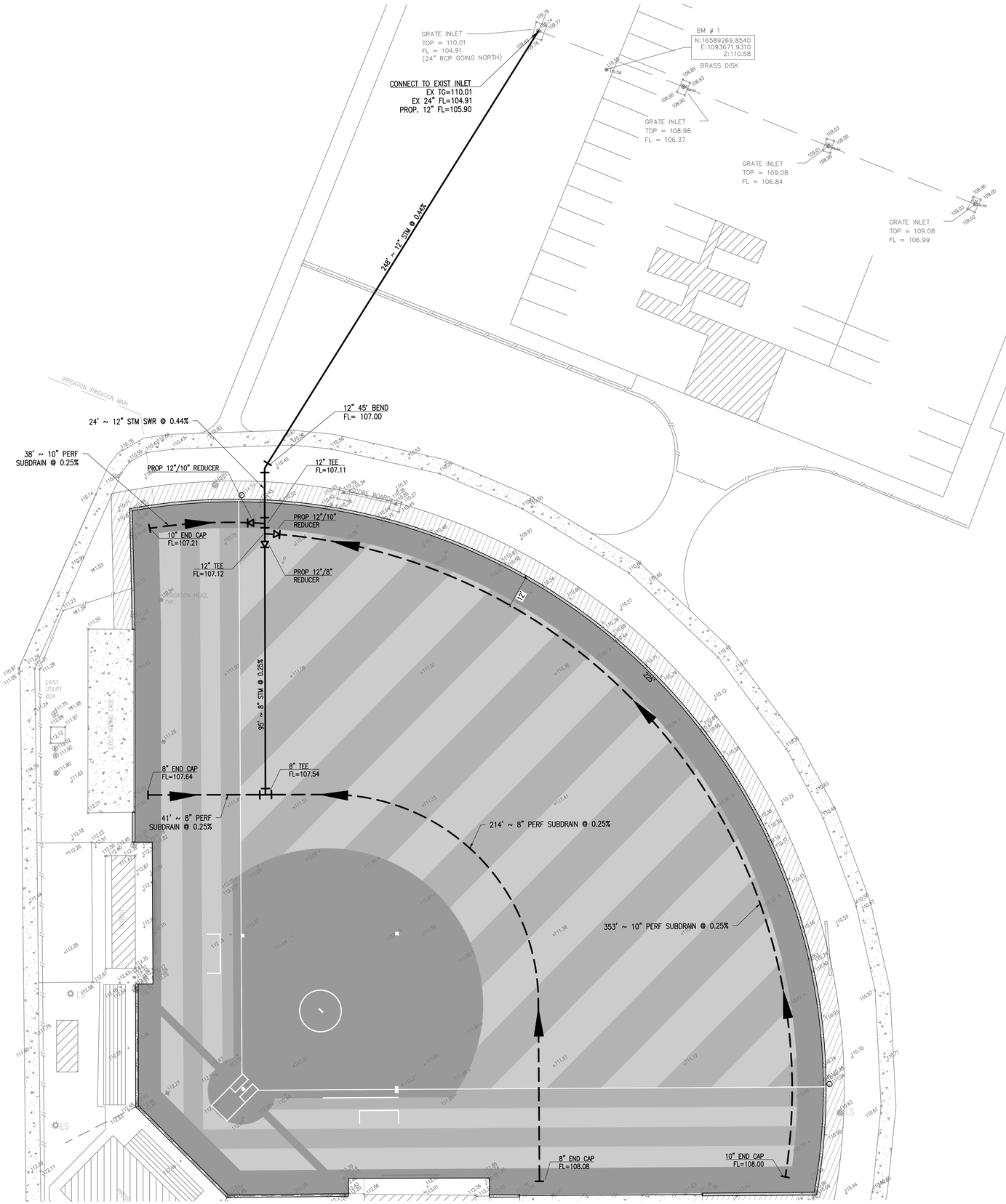
No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL SITE PLAN

CA 101

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 101 SOFTBALL SITE PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 3:21:43 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NOTES TO SHEET

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ALL PIPE CONNECTIONS.
2. SUBDRAIN LINES SHALL BE PERFORATED HDPE PIPE. REFER TO DETAILS.
3. ALL REDUCERS AND FITTINGS SHALL BE A MANUFACTURER APPROVED CONNECTION.
4. ALL SUBDRAIN PIPE CONNECTIONS SHALL BE MADE UTILIZING MANUFACTURER APPROVED FITTINGS.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TN	TOP OF NAILER
TR	TOP OF RIM
TG	TOP OF GRATE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
LICENSED
STATE OF TEXAS
SURVEYOR
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

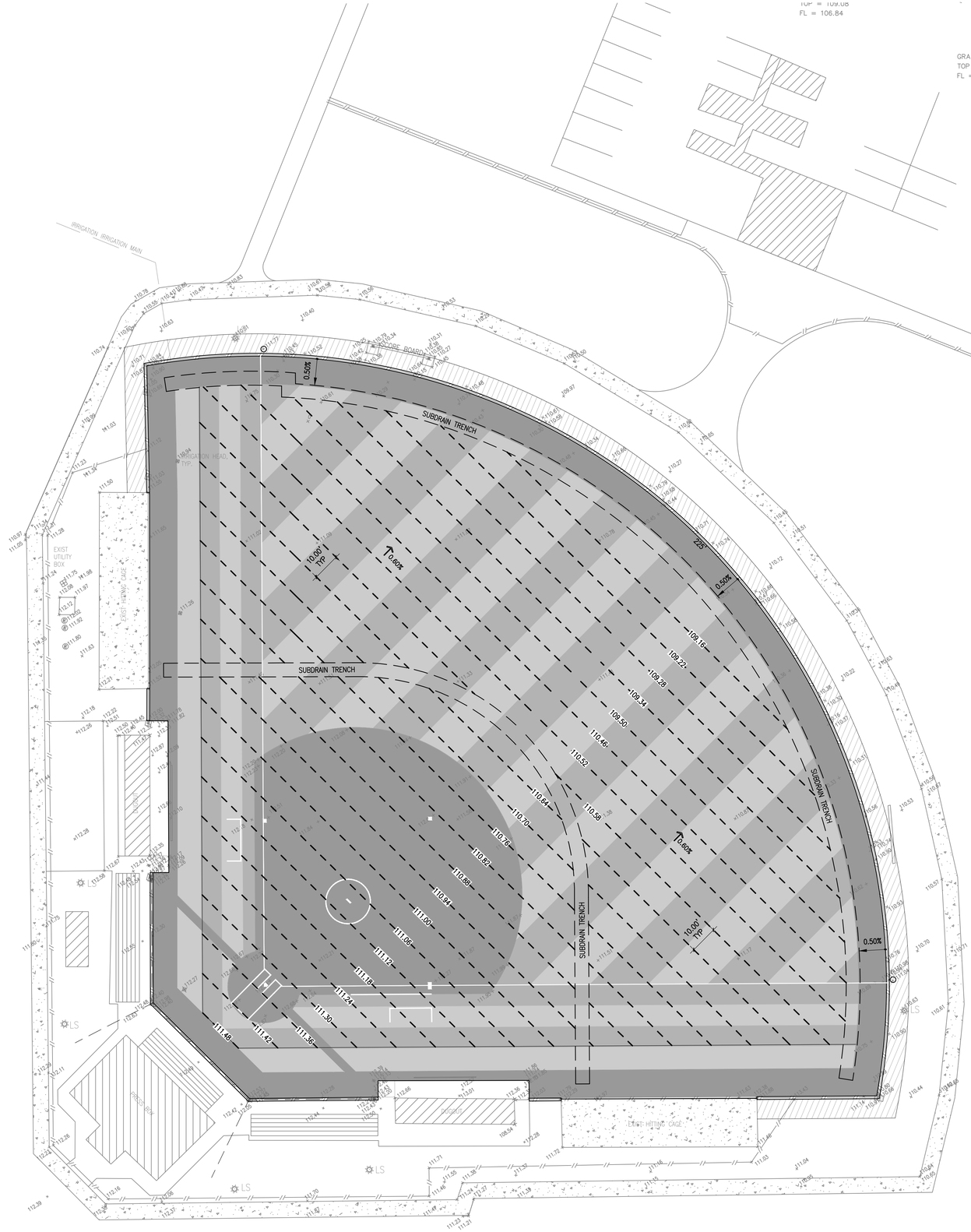
No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DRAINAGE PLAN

CA 102

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 102 SOFTBALL DRAINAGE PLAN.dwg Last Saved: TCRYER
Tuesday, August 6, 2019 8:42:58 PM
DRAWN BY: AGLUZMAN **CHECKED BY:** TCRYER
TCRYER





10 20
20 0 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

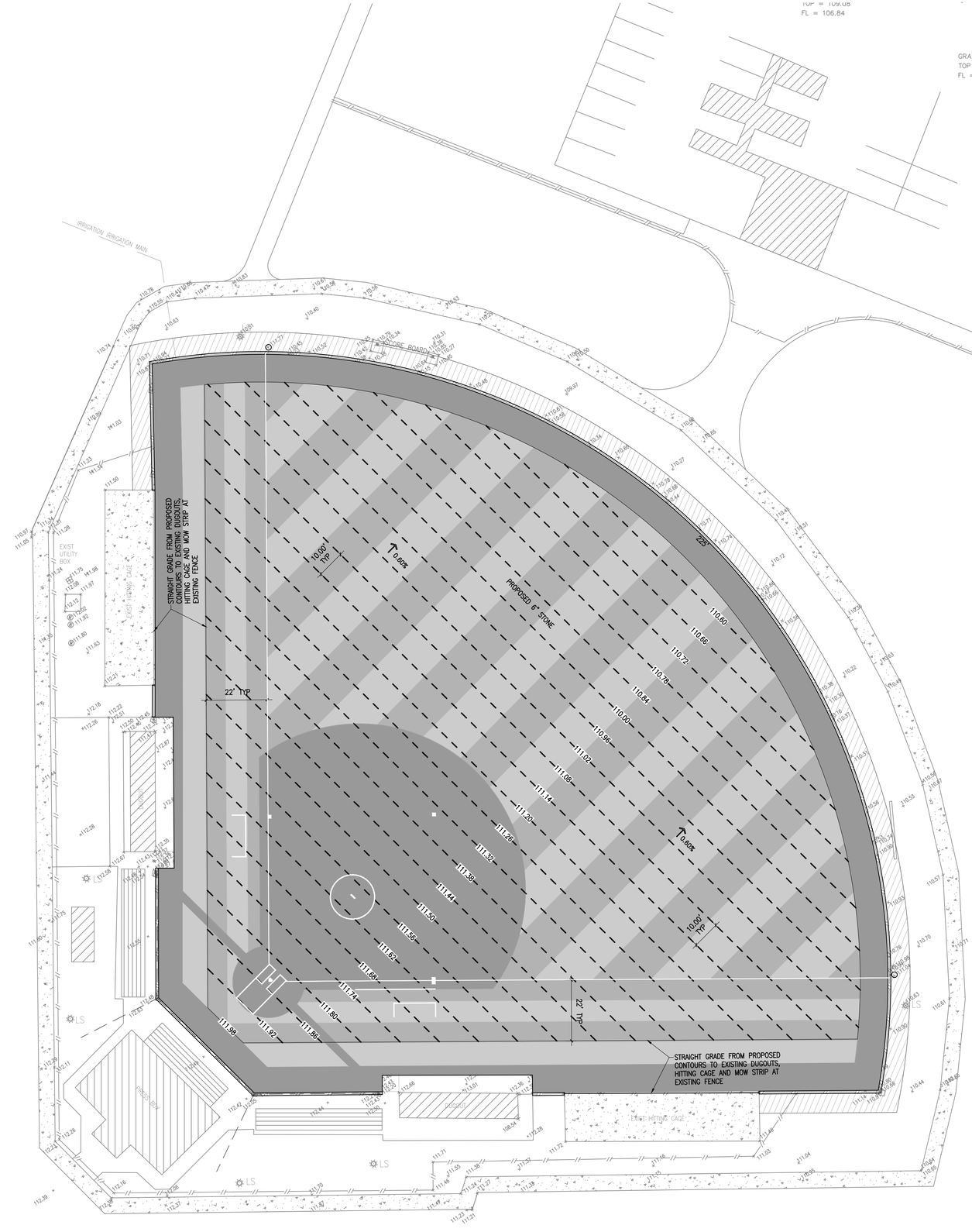
ISSUE FOR PROPOSALS

SOFTBALL SUBGRADE GRADING PLAN

CA 103

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 103 SOFTBALL SUBGRADE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 1:02:20 PM

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN



NORTH

10 0 20 20 40

NOTES TO SHEET

1. CONTRACTOR SHALL NOT OPERATE PULVIMIXER OVER TOP OF EXISTING STORM LINES DURING SOIL STABILIZATION PROCESS. A MINIMUM OF 6" OF SUBGRADE MATERIAL SHALL BE REMOVED FROM THE AREA OVER AND ADJACENT TO STORM LINES AND MIXED IN MIDDLE OF FIELD. STABILIZED SOIL SHALL THEN BE PUSHED BACK OVER THE STORM LINES AND COMPACTED.
2. TOP OF NAILER BOARD SHALL BE 0.1' BELOW TOP OF CURB.
3. SEE DETAILS FOR SUBGRADE PREPARATION.
4. TOP OF MOWSTRIP TO MATCH EXISTING GRADE AT EXISTING FENCE UNLESS OTHERWISE NOTED. TAKE CARE NOT TO BLOCK DRAINAGE WITH PROPOSED MOW STRIP.

LEGEND

TC	TOP OF CURB
FL	FLOW LINE
TP	TOP OF PAVEMENT
TSub	TOP OF SUBGRADE
TR	TOP OF RIM
TG	TOP OF GRATE
TN	TOP OF NAILER
TM	TOP OF MOW STRIP
TS	TOP OF STONE
A - X	AREA INLET
ID - X	INLINE DRAIN
CB - X	CATCH BASIN

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589
ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

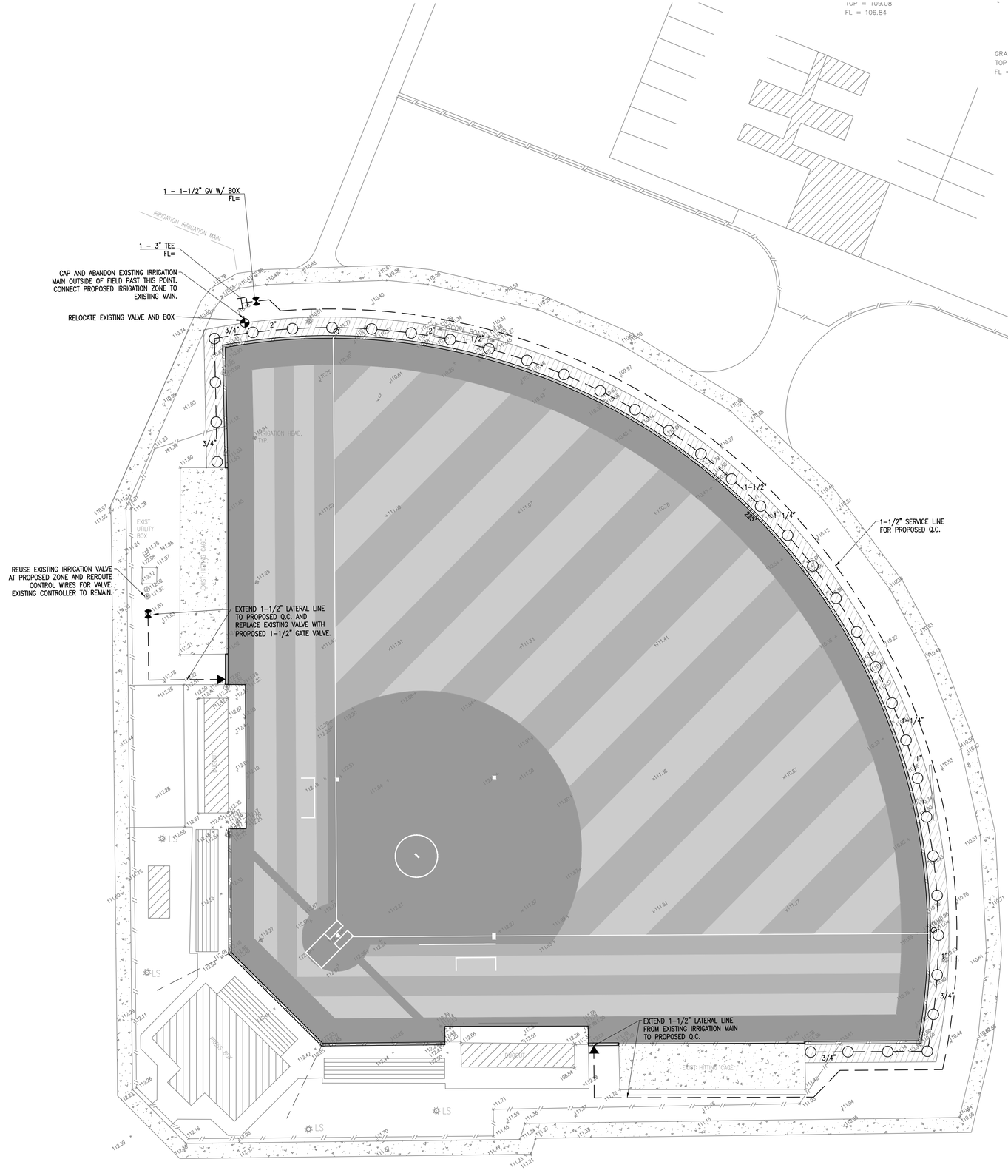
No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL STONE GRADING PLAN

CA 104

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 104 SOFTBALL STONE GRADING PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 1:04:18 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



NORTH

10 20
20 0 40

NOTES TO SHEET

1. EXIST IRRIGATION CONTROLLER IS TO REMAIN IN OPERATION FOR NEW ZONE CONTROL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER.
2. A PRE-COVER INSPECTION IS REQUIRED, IF NOT THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING THE IRRIGATION LINE TRENCH.
3. ALL HEAD PLACEMENTS ARE SUGGESTED. MAINLINE AND LATERAL PIPE ROUTING IS ALSO SUGGESTED AND MAY BE FIELD ROUTED.
4. CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE OF WATERING.
5. CONTRACTOR SHALL COORDINATE TIMING AND ZONING OF IRRIGATION WITH OWNER.
6. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM AT TIME OF COMPLETION.
7. SYSTEM IS DESIGNED FOR A MIN. OPERATING PRESSURE OF 50 PSI AT THE IRRIGATION HEAD. IF PRESSURE CAN NOT BE MET, CONTRACTOR SHALL CONTACT IRRIGATION DESIGNER IMMEDIATELY.

RAINBIRD LEGEND

- RAINBIRD F4-FC-SS-10
- RAINBIRD F4-PC-SS-6
- RAINBIRD F4-PC-SS-HS-4
- SPRAY WITH ROTARY NOZZLES R13-18F
- RAINBIRD PEB SERIES ELECTRIC VALVE
- ISOLATION VALVE
- BACKFLOW DEVICE
- METER
- 1" QUICK COUPLER (RAINBIRD)
- MAIN LINE (PRESSURE)
- LATERAL LINE (NON-PRESSURE)

ZONE	A-6	50.1	FLOW IN ZONE
		2"	SIZE OF CONTROL VALVE

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

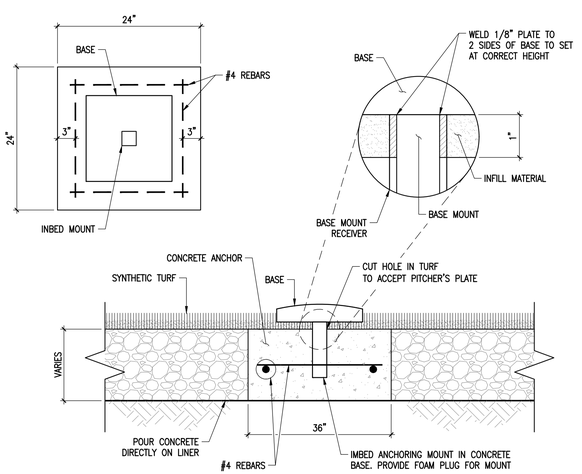
SOFTBALL IRRIGATION PLAN

CA 105

CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

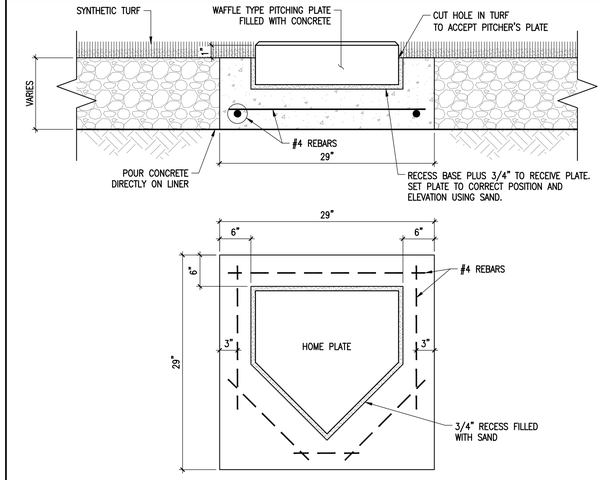
B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div6-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 105 SOFTBALL IRRIGATION PLAN.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 5:38:37 PM

9 NOT USED



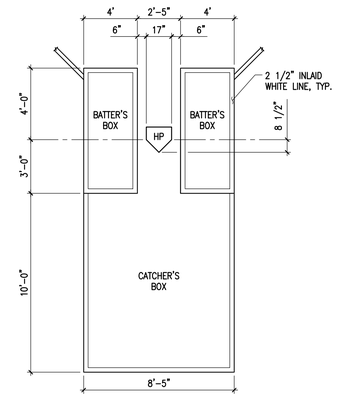
6 SOFTBALL BASE PLATE MOUNT

8 NOT USED

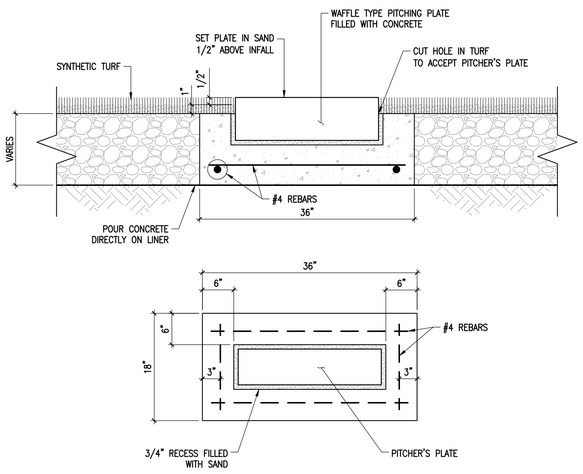


5 SOFTBALL HOME PLATE MOUNT

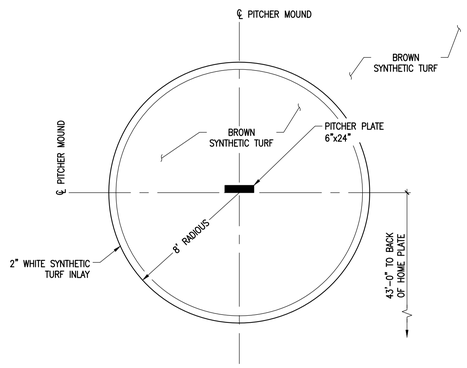
7 NOT USED



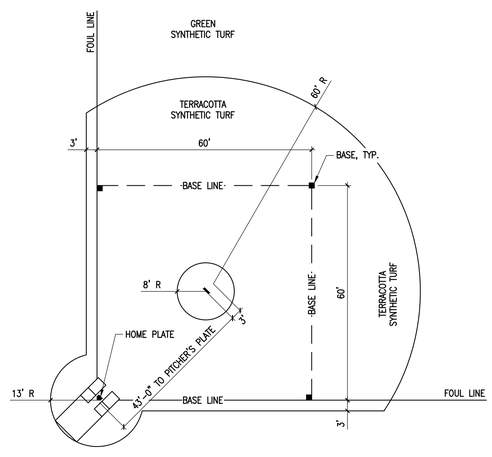
4 SOFTBALL BATTER'S BOX



3 SOFTBALL PITCHER'S PLATE MOUNT



2 FAST PITCH SOFTBALL PITCHER MOUND SYNTHETIC TURF



1 FAST PITCH SOFTBALL INFIELD LAYOUT

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE
08/07/19

REVISIONS

No.	Description	Date

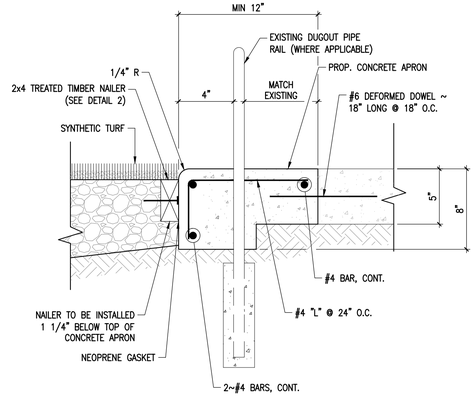
ISSUE FOR PROPOSALS

SOFTBALL DETAILS

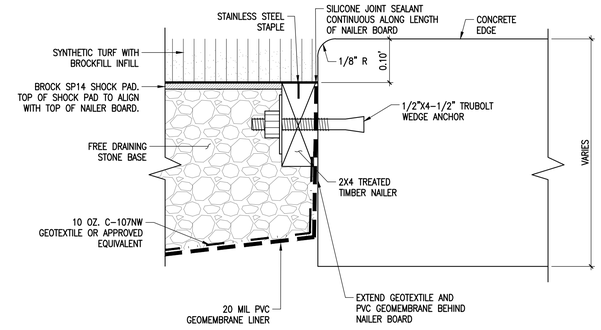
CA 106

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Dwl\8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 106 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 7:47:55 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

B:_Sports Group_PROJECT FILES_Project Files - RGV\191415P\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 107 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN
Tuesday, August 6, 2019 9:31:26 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER



9 NOT USED



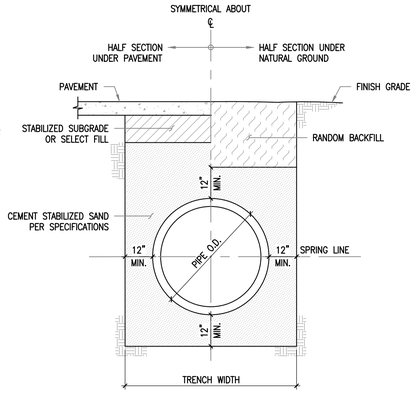
NOTES:

1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

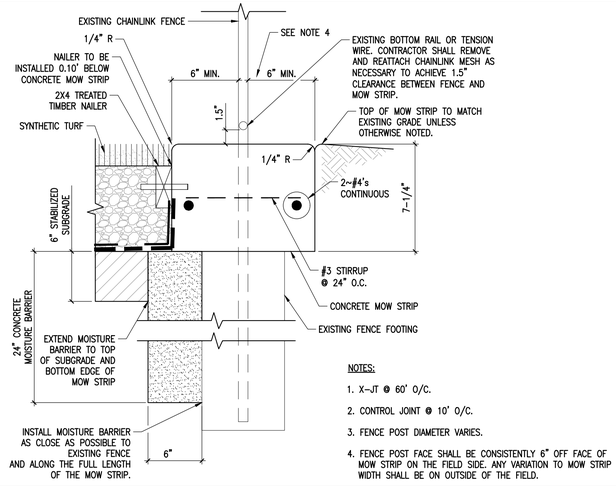
8 NOT USED

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.



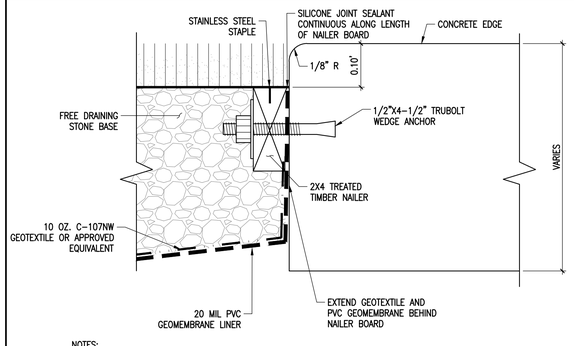
7 CONCRETE APRON AT EXISTING DUGOUT RAIL (ALTERNATE #2)



NOTES:

1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. FENCE POST DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

6 ALTERNATE NAILER BOARD SECTION WITH SHOCK PAD (ALT. #3)



NOTES:

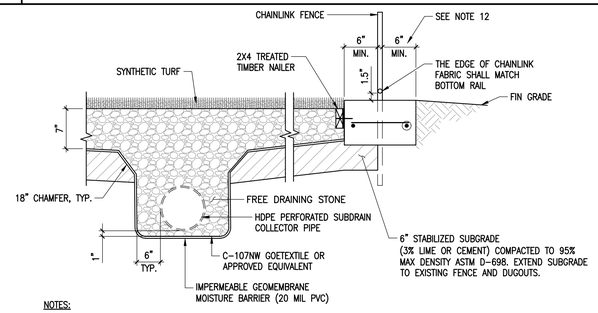
1. TREATED TIMBER TO BE RATED FOR USE IN SUBTERRANEAN CONDITIONS – 0.23 PCF OF MICRONIZED COPPER AZOLE.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB. POLYURETHANE SEALANT WILL NOT BE ALLOWED.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB.
7. PROVIDE 3/8" GAP BETWEEN ENDS OF NAILER BOARDS TO PROVIDE FOR EXPANSION.

5 STORM SEWER BEDDING AND BACKFILL

4 SOFTBALL SYNTHETIC TURF MOW STRIP AT EXISTING FENCE

3 NAILER BOARD SECTION

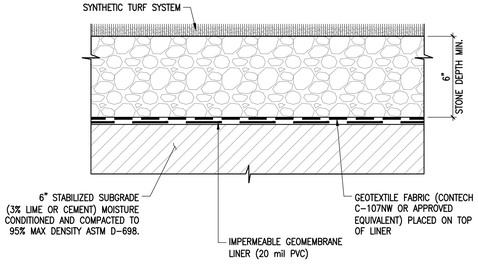
2 SOFTBALL SYNTHETIC TURF SYSTEM EDGE SECTION



NOTES:

1. DIMENSION MAY CHANGE BASED ON ACTUAL SYNTHETIC TURF TO BE INSTALLED. FIELD ELEVATIONS SHOWN IN DRAWINGS BASED ON TOP OF TIMBER NAILER BEING 0.10' BELOW TOP OF TRACK CURB.
2. SYNTHETIC TURF TO BE SECURED TO TIMBER NAILER WITH STAINLESS STEEL STAPLES.
3. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
4. WEDGE ANCHORS TO BE INSTALLED 3" FROM END OF 2X4 TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
5. INSTALL SILICONE JOINT SEALANT BETWEEN NAILER BOARD AND CURB.
6. IMPERVIOUS GEOMEMBRANE SHALL EXTEND TO TOP OF NAILER BOARD BETWEEN NAILER BOARD AND CURB
7. MINIMUM 6" STONE DEPTH AT CURB.
9. X-JT @ 60' O/C
10. CONTROL JOINT @ 10' O/C
11. FENCE POST DIAMETER VARIES
12. FENCE POST FACE SHALL BE CONSISTENTLY 6" OFF FACE OF MOW STRIP ON THE FIELD SIDE. ANY VARIATION TO MOW STRIP WIDTH SHALL BE ON OUTSIDE OF THE FIELD.

1 SOFTBALL SYNTHETIC TURF SECTION



PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III
69402
STATE OF TEXAS
08/07/2019

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE
08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

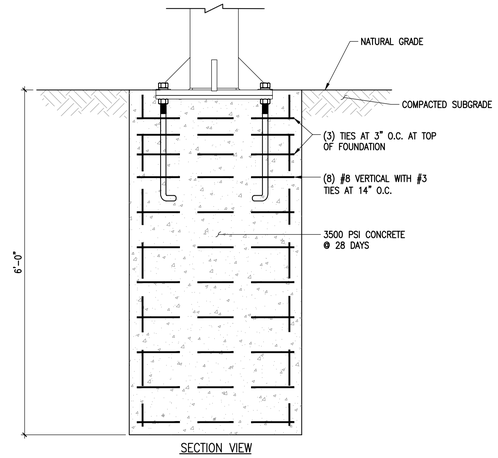
CA 107

6 | NOT USED

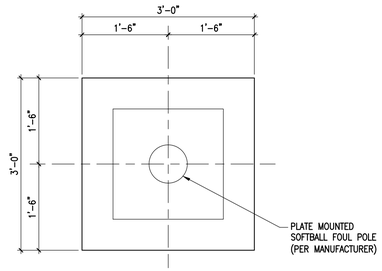
5 | NOT USED

NOTE:

1. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH FOUL POLE MANUFACTURER. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.
2. REFER TO SPECS FOR FOUL POLE STYLE AND MANUFACTURER.



SECTION VIEW

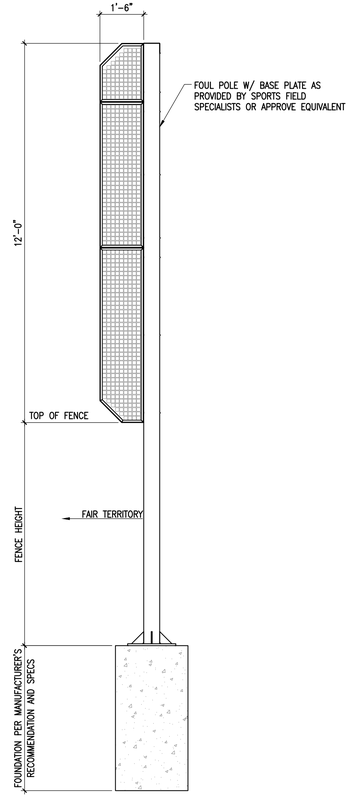


PLAN VIEW

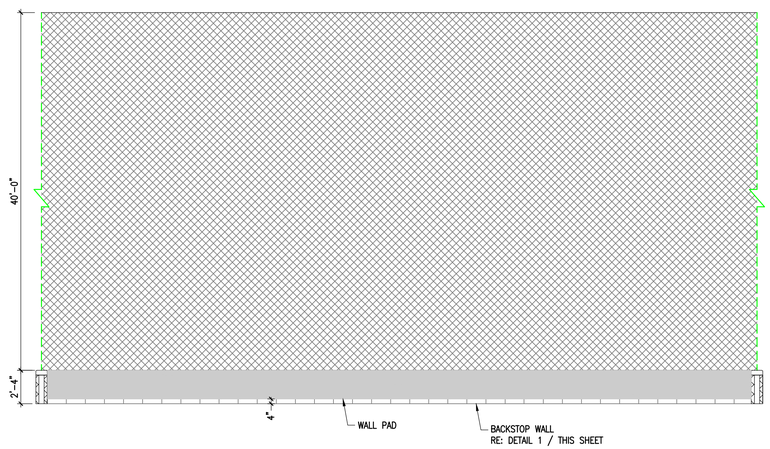
4 | SOFTBALL FOUL POLE FOUNDATION

NOTE:

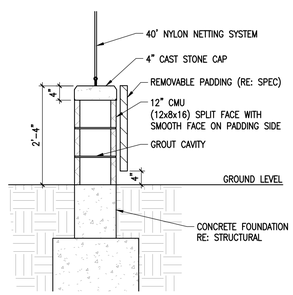
ALIGN OUTSIDE EDGE OF FOUL POLE WITH OUTSIDE EDGE OF FOUL LINE.



3 | SOFTBALL FOUL POLE 22FT WING



2 | BACKSTOP NETTING DETAIL (ALTERNATE #1)



1 | BACKSTOP WALL DETAIL (ALTERNATE #1)

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
PSJA ECHS
SOFTBALL FIELD UPGRADES

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

H.F. SCHNEIDER, III 69402 STATE OF TEXAS 08/07/2019

CLIENT: PSJA ISD
PROJECT NUMBER: 19141SP
DATE: 08/07/19
REVISIONS

No.	Description	Date

ISSUE FOR PROPOSALS

SOFTBALL DETAILS

CA 108

B:_Sports Group_PROJECT FILES_Project Files - RGV\19141SP\Div8-Dwgs\8a BIM CAD\03 Sports\PSJA HIGH SCHOOL\CA 108 SOFTBALL DETAILS.dwg Last Saved: AGLUZMAN Tuesday, August 6, 2019 9:04:55 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:09:57 PM

DRAWN BY: AGLUZMAN **CHECKED BY:** TCRYER

GENERAL:

G1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PROTECTED BY U.S.A. COPYRIGHT LAWS. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE STRUCTURE FOR THE BUILDING DESCRIBED IN THE ARCHITECTURAL DRAWINGS AT THE LOCATION INDICATED. THE DESIGN OF THE STRUCTURE REPRESENTED BY THESE DOCUMENTS IS NOT VALID FOR ANY OTHER LOCATION, PURPOSE OR USE.

G2 UNLESS NOTED OTHERWISE, THE GENERAL NOTES AND THE DETAILS IN THE DRAWINGS DESIGNATED AS "TYPICAL DETAILS," ARE APPLICABLE TO THE CONSTRUCTION IN ALL LOCATIONS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE GENERAL NOTES AND THE TYPICAL DETAILS.

G3 THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATED PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G4 CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE (ENGINEER FILL IN) 20XX INTERNATIONAL BUILDING CODE AND ALL STANDARDS REFERENCED THEREIN IN THEIR ENTIRETY, WITH ALL LOCALLY ADOPTED AMENDMENTS, REFERENCED THEREIN. IN THE EVENT OF A CONFLICT BETWEEN THE BUILDING CODE AND THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION BASED ON THE SOLE DISCRETION OF THE ENGINEER SHALL APPLY.

G5 ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOBSITE DURING CONSTRUCTION.

G6 UNLESS ACCOMPANIED BY A FORMAL CHANGE ORDER, RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM, BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS OR CORRECTIONS TO THE PERCEIVED INTERPRETATION OF THE INTENT OF CONTRACT DOCUMENTS BY THE CONTRACTOR. SUCH CLARIFICATIONS AND CORRECTIONS ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER AND ARE CONSIDERED TO BE INFERABLE FROM THE CONTENT OF THE CONTRACT DRAWINGS OR CONSISTENT WITH INDUSTRY STANDARDS OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUCH CLARIFICATIONS AND CORRECTIONS HAVE AN IMPACT ON THE COST OF THE PROJECT TO THE OWNER, THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.

G7 THE ROOF STRUCTURE AND IT'S SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT ADEQUATE AND SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER.

G8 THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN CLARIFICATIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

G9 THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.

G10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

G11 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. REDUNDANT DIMENSIONS AND OTHER INFORMATION INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS MAY OR MAY NOT BE PROVIDED IN THE STRUCTURAL DRAWINGS. THE ENTIRE SET OF CONTRACT DOCUMENTS IS REQUIRED TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. THE CONTRACTOR SHALL ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. IF THERE IS SPECIFIC DIMENSIONAL OR OTHER INFORMATION THAT THE CONTRACTOR FEELS CAN NOT BE DETERMINED FROM THE CONTRACT DOCUMENTS AS A WHOLE, THEN THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER. THE ADDITIONAL INFORMATION WILL BE PROVIDED, OR THE CONTRACTOR WILL BE INFORMED WHERE THE INFORMATION CAN BE FOUND, OR HOW IT CAN BE CALCULATED FROM INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS.

G12 THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS ANCILLARY DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S, AND HIS DETAILER'S, RESPONSIBILITY TO ESTABLISH WHERE SUCH ANCILLARY DIMENSIONS ARE NECESSARY AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

G13 ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND/OR PIPING ARE NOT INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. REF ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT INDICATED ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

G14 THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS SO STATED OR NOTED, THEY DO NOT INDICATE COMPONENTS THAT ARE NECESSARY FOR SUPPORTING AND STABILIZING THE WORK DURING CONSTRUCTION OR THE MEANS AND METHODS OF CONSTRUCTION, ALL OF WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING, PROPERLY DESIGNED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

G15 ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, FOR INSPECTIONS UNLESS SPECIFICALLY INCLUDED IN THE ENGINEER'S CONTRACT.

G16 THE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS INDICATED IN THE STRUCTURE WHICH ARE RELATED TO PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES SHALL BE VERIFIED BY THE CONTRACTOR TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. ANY REQUIREMENT FOR RELOCATION OR CHANGE IN DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION.

G17 VARIOUS OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, AND EMBEDMENTS NOT INDICATED IN THE STRUCTURAL DRAWINGS MAY BE REQUIRED IN THE STRUCTURE FOR PURPOSES DEPICTED IN CONTRACT DOCUMENTS OTHER THAN THE STRUCTURAL DRAWINGS OR BY THE MANUFACTURERS AND INSTALLERS OF VARIOUS EQUIPMENT AND FINISHES. THE CONTRACTOR SHALL INCORPORATE AND COORDINATE THE LOCATION AND DIMENSIONS OF ANY OPENING, DEPRESSION, RECESS, SLOPE, BLOCKOUT, OR EMBEDMENT INTO THE STRUCTURE AS REQUIRED TO BE SUITABLE FOR THE PURPOSES DEPICTED BY THE CONTRACT DOCUMENTS REQUIRING SUCH ITEMS OR TO BE SUITABLE FOR THE INSTALLATION OF VARIOUS EQUIPMENT AND FINISHES. THE SUITABLE LOCATION AND DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, AND EMBEDMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER IN DRAWING FORM PRIOR TO THE FABRICATION OF MATERIALS OR CONSTRUCTION. AN ALLOWANCE SHALL BE INCLUDED IN THE BID PRICE SUFFICIENT TO ADEQUATELY COVER STRUCTURAL REQUIREMENTS FOR SUCH ITEMS WITHOUT NEED FOR A FUTURE CHANGE TO THE BID PRICE.

G18 ELEVATIONS PROVIDED IN THE STRUCTURAL DRAWINGS ARE RELATIVE ELEVATIONS AND ARE NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATIONS OF VARIOUS ELEMENTS OF THE BUILDING.

G19 LOCATIONS AND LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS INDICATED ON THE MECHANICAL DRAWINGS AND IN THE EQUIPMENT SCHEDULE. ANY CHANGES IN LOCATION, TYPE, SIZE, WEIGHT, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

G20 PROPOSED SUBSTITUTIONS OF MATERIALS, PRODUCTS OR DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED DURING THE BIDDING PERIOD. AFTER BIDS ARE ACCEPTED, NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH BACKUP DATA IDENTIFYING THE CONTRACTOR'S PERCEIVED INTEREST TO THE OWNER FOR ACCEPTING THE PROPOSED SUBSTITUTION OR DEVIATION. FOR PROPOSED SUBSTITUTIONS OF PRODUCTS, THE BACKUP DATA SHALL INCLUDE CURRENT I.C.B.O. REPORT OR OTHER INDEPENDENT VERIFICATION OF THE PRODUCTS PERFORMANCE. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "NOTICE IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES OR DEVIATIONS ARE BEING PROPOSED AND THEY ARE ACCOMPANIED WITH THE REQUIRED BACKUP DATA. PROPOSED SUBSTITUTIONS OR DEVIATIONS WILL NOT BE REVIEWED OR RESPONDED TO WITHOUT THE REQUIRED BACKUP DATA. THE CONTRACTOR SHALL REMAIN LIABLE FOR ANY SUBSTITUTION OR DEVIATION UNLESS ACKNOWLEDGMENT AND ACCEPTANCE IS PROVIDED BY THE ENGINEER IN WRITING.

G21 THE CONTRACTOR SHALL COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

G22 DO NOT SCALE THE DRAWINGS IN THE STRUCTURAL DOCUMENTS FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

G23 CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND 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.

G24 THE CONTRACTOR SHALL ARRANGE PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.

G25 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL PLANS, THE LOCATION OF ANY EXISTING SUBGRADE UTILITIES OR OTHER OBSTRUCTIONS IS UNKNOWN. FOUNDATION CONSTRUCTION MAY HAVE TO BE MODIFIED UPON DISCOVERY OF SUCH ITEMS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICT OF A DISCOVERED ITEMS WITH THE CONSTRUCTION OF NEW FOUNDATION ELEMENTS.

EXISTING CONDITIONS:

EX1 EXISTING CONDITIONS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF ANY EXISTING BUILDINGS AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS INDICATED ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER.

EX2 ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

EX3 THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

EX4 REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

EX6 EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.

EX7 THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.

EX8 DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.

EX9 THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.

EX10 WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

SHOP DRAWINGS:

SDR1 SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

SDR2 THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.

SDR3 THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

SDR3 SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.

SDR4 THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.
A. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.
B. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.

SDR5 OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

SDR6 THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.

SDR7 SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

SDR8 COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

GEOTECHNICAL REPORT:

GR1 FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:

GEOTECHNICAL CONSULTANT:	TERRACON CONSULTANTS, INC.
GEOTECHNICAL REPORT NUMBER:	88195055
GEOTECHNICAL REPORT NAME:	PSJA HIGH SCHOOL SOFTBALL FIELD TURF
GEOTECHNICAL REPORT LOCATION:	ALAMO, TX
GEOTECHNICAL REPORT DATE:	JUNE 17, 2019

GR2 THE GEOTECHNICAL REPORT IS AVAILABLE TO THE CONTRACTOR AS A REFERENCE DOCUMENT UPON REQUEST TO THE OWNER.

GR3 THE CONTRACTOR SHALL READ THE GEOTECHNICAL INVESTIGATION REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE RECOMMENDATIONS LISTED IN GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.

GR4 THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR APPLICABILITY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.

GR5 THESE PLANS, AND THE PROJECT SPECIFICATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND COMMENT BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO ENSURE CONFORMANCE BETWEEN THE FOUNDATION DESIGN AND THE INTERPRETATION OF THE GEOTECHNICAL RECOMMENDATIONS.

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
AG&E Structural Engenuity

GEOTECHNICAL REPORT WITHOUT LOAD BEARING VALUES:

NG1 LOAD BEARING VALUES WERE NOT AVAILABLE NOR PRODUCED BY THE OWNER FOR OUR USE ON THIS PROJECT. AS A RESULT, FOR THE FOUNDATION PORTIONS OF THIS PROJECT, WE PERFORMED OUR ANALYSIS UTILIZING THE PRESUMPTIVE LOAD-BEARING VALUES OF SOILS SECTION OF THE IBC FOR DETERMINATION OF THE ALLOWABLE VERTICAL AND LATERAL LOADING CAPACITIES. SEE IBC 2015 SECTION 1806 PRESUMPTIVE LOAD-BEARING VALUES OF SOIL AND ASSOCIATE TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES, CLASS 5 SOILS HAVE BEEN ASSUMED FOR USE IN DESIGN ON THIS PROJECT.

TABLE BELOW TAKEN FROM IBC 2015 SECTION 1806
TABLE 1806.2
PRESUMPTIVE LOAD-BEARING VALUES

CLASS OF MATERIALS	VERTICAL FOUNDATION PRESSURE (PSF)	LATERAL BEARING PRESSURE (PSF/FT BELOW NATURAL GRADE	LATERAL SLIDING RESISTANCE	
			COEFFIECIENT OF FRICTION[A]	COHESION (PSF)[B]
1. CRYSTALLINE BEDROCK	12,000	1,200	0.70	---
2. SEDIMENTARY AND FOLIATED ROCK	4,000	400	0.35	---
3. SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000	200	0.35	---
4. SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW, SP, SM, SC,GM AND GC)	2,000	150	0.25	---
5. CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH AND CH)	1,500	100	---	130

FOR SI: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT PER FOOT = 0.157 kPa/m
a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD
b. COHESION VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1806.3.2

FOOTINGS

F1 FOOTINGS DESIGNS ARE BASED UPON THE INFORMATION GIVEN IN THE GENERAL NOTES SECTION: DRAWINGS ISSUED WITHOUT GEOTECHNICAL REPORT. REFER TO TYPICAL FOOTING DETAIL FOR SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES IS SHOWN ON PLANS.

F2 FOOTINGS CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE IBC 2015. ANY ACCUMULATED WATER SHALL BE PUMPED FROM THE EXCAVATION PRIOR TO CONCRETE PLACEMENT AND REINSPECTED.

F3 FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE. WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.

F4 PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.

F5 ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.

F6 REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.

F7 ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL LABORATORY IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.

F8 THE TOPS OF ALL PERIMETER FOOTINGS SHALL BE AT LEAST 24 INCHES BELOW THE FINAL SURROUNDING GRADE.

F9 TEMPLATES SHALL BE UTILIZED TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. DETAILS OF THE TEMPLATES SHALL BE PROVIDED IN THE FOOTING SHOP DRAWINGS.

GENERAL FOUNDATION NOTES:

FD1 GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED.

FD2 REFERENCE THE FOUNDATION PLAN FOR SIZE AND SPACING OF SLAB-ON-GRADE REINFORCEMENT.

FD3 PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS UNLESS NOTED OTHERWISE. REFER TO TYPICAL CORNER BAR DETAIL.

FD4 FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.

FD5 PROVIDE WATERSTOPS AT ALL SUB GRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUB GRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS INDICATED IN THE DOCUMENTS.

FD6 NO VERTICAL CONDUIT, SLEEVE OR PIPE IS PERMITTED TO BE EMBEDDED IN CONCRETE BEAM WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS SPECIFICALLY DETAILED OTHERWISE.

SHEET LIST - PSJA HIGH SCHOOL

SHEET NUMBER	SHEET NAME
S 000	GENERAL NOTES
S 001	GENERAL NOTES
S 002	GENERAL NOTES
S 004	GENERAL NOTES
S 005	GENERAL NOTES
S 204	PSJA HS SOFTBALL SITE PLAN
S 300	PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS
S 301	TYPICAL FOUNDATION DETAILS
S 400	TYPICAL CMU DETAILS AND SCHEDULES
S 401	FOUNDATION DETAILS AND ELEVATIONS

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/2019
REVISIONS	

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 000

A|G
&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

CONCRETE MIX:

CM1 CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGN SCHEDULE								
USE	28-DAY STRENGTH (PSI)	SLUMP (IN)	MAX. WATER CEMENT RATIO	MAX. CURED DENSITY (PCF)	MAX. AGGREGATE SIZE (IN)	CEMENT TYPE	MAX. ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
FOOTINGS	3,000	3-5	0.50	150	1"	I / II	30	5
BEAMS	4,000	3-5	0.50	150	1"	I / II	20	-
WALLS	4,000	6-8	0.50	150	1"	I / II	30	5

CM2 CHANGING MATERIAL PROPORTIONS, PROPERTIES, SOURCES, COMBINATIONS, ADDITIONS OR ANYTHING WHICH IS A CHANGE IN THE APPROVED MIX DESIGN REQUIRES A NEW MIX DESIGN SUBMITTAL. ADMIXTURES PLACED IN THE CONCRETE MIX SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INCLUDED IN THE SUBMITTED CONCRETE MIX DESIGN FOR APPROVAL.

CM3 CONCRETE SLUMPS INDICATED ABOVE ARE AFTER THE ADDITION OF WATER-REDUCING ADMIXTURES OR PLASTICIZERS. SLUMP AT THE POINT OF PLACEMENT SHALL NOT EXCEED AMOUNT SPECIFIED. DO NOT PLACE CONCRETE WITH SLUMP AND TEMPERATURE OUTSIDE THE LIMITS PROVIDED ON THE APPROVED MIX DESIGNS. USE OF CHLORIDES IN ANY ADMIXTURE IS NOT PERMITTED.

CM4 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN THE SCHEDULE (MASS CONCRETE SHALL ONLY BE TYPE II CEMENT). NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.

CM5 FLY ASH SHALL NOT BE USED AS A CONSTITUENT IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO THE MAXIMUM PERCENTAGE LISTED ABOVE. THE WEIGHT OF THE FLY ASH SHALL BE ADDED TO THE WEIGHT OF THE CEMENT IN THE CALCULATION OF THE WATER CEMENT RATIO. THE CONTRACTOR SHALL CONFIRM IN THE MIX DESIGN SUBMITTAL THAT THE USE OF FLY ASH WILL NOT INTERFERE WITH THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WITH THE CONCRETE.

CM6 AIR ENTRAINMENT IS REQUIRED ONLY IN NORMAL WEIGHT CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS 1.5 %. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.

CM7 MIX FOR TOPPING SLABS THAT ARE LESS THAN TWO INCHES THICK SHALL CONTAIN "FIBERMESH" POLYPROPYLENE, MD GRADED FIBERS WITH A MINIMUM RATIO OF 1.5 POUNDS PER CUBIC YARDS. ALSO, REFER TO NOTES SECTIONS ON NON-METALLIC REINFORCEMENT AND NON-COMPOSITE TOPPING SLABS.

CM8 SHRINKAGE LIMIT FOR CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL BE 0.045% AT 28 DAYS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS TO THE ENGINEER PRIOR TO CONSTRUCTION.

CM9 NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT AT CONTRACTOR'S OPTION.

CM10 THE COMPRESSIVE STRENGTH OF GROUT BELOW BASE PLATES SHALL BE AT LEAST 7000 PSI.

CM11 TESTING ACCEPTANCE CRITERIA FOR CAST-IN-PLACE CONCRETE IS IN THE SPECIFICATIONS.

CM12 USE CALCIUM NITRITE AT A RATE OF TWO GALLONS/CUBIC YARD IN EXPOSED PARKING GARAGE STRUCTURES AND EXTERIOR TOPPING SLABS.

CM13 CONTRACTOR SHALL SUBMIT THE MIX DESIGN SUBMITTALS TO THE PROJECT'S TESTING LABORATORY PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER. A SUBMITTAL WITHOUT TESTING LABORATORY'S APPROVAL WILL BE REJECTED.

CONCRETE REINFORCING:

CR1 REINFORCING STEEL SHALL CONFORM TO ASTM A615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. GRADES SHALL BE AS FOLLOWS:
- A. #3 THROUGH #10.....GRADE 60
- B. #11 THROUGH #18.....GRADE 75

CR2 REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS INDICATED ABOVE. WELDING SHALL CONFORM TO AWS D1.4. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE DRAWINGS.

CR3 ELECTRICALLY-WELDED WIRE REINFORCEMENT (WWR) OF COLD-DRAWN WIRE (70,000 PSI YIELD) SHALL CONFORM TO ASTM A185, OF SIZE INDICATED ON DRAWINGS.

CR4 ALL HEADED STUDS AND DEFORMED BAR ANCHORS (DBA) SHALL BE WELDED BY FULL-FUSION PROCESS, AS FURNISHED BY TRW NELSON STUD WELDING DIVISION OR EQUAL.

CR5 DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI 315.

CR6 IN GENERAL, CLEAR CONCRETE COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (WITH OR WITHOUT VAPOR RETARDER):	ALL	3"	3/8"
EXPOSED TO EARTH OR WEATHER	#5 BAR AND SMALLER	1 1/2"	3/8"
	#6 BAR AND LARGER	2"	1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: (TYPICAL INTERIOR CONDITIONS, CRAWL SPACES, AND UNDERSIDE OF PARKING FLOORS ARE IN THIS CATEGORY)	SLABS AND WALLS	1"	3/8"
	WIDE PAN, SKIP JOISTS AND BEAMS	1 1/2"	1/2"
	COLUMNS	1 5/8"	1/2"

CR8 SPECIFIC COVER REQUIREMENTS ARE AS FOLLOWS:
(REF TABLE ABOVE IF SPECIFIC CASE IS NOT LISTED)

EXPOSURE CONDITION	BAR SIZE OR USE	MINIMUM COVER	TOLERANCE
GRADE BEAMS, TOP, BOTTOM AND SIDES WHEN THREE SIDES FORMED-OTHERWISE REF ABOVE	ALL	2"	3/8"
SLAB BOTTOMS OVER VOID FORMS	ALL	2"	3/8"
SLAB-ON-GRADE	ALL	2"	+3/8" - 0"
PIERS	ALL	3"	3/8"
EXTERIOR FACE OF TILT-UP WALL PANELS (MEASURED FROM INSIDE FACE OF REVEAL)	REF TYP DETAIL		3/8"
			3/8"
INTERIOR FACE OF TILT-UP WALL PANELS	REF TYP DETAIL		3/8"
			3/8"
EDGE OF TILT-UP WALL PANELS	MAIN REINFORCEMENT	2"	3/8"
	TIES & STIRRUPS	1 1/2"	3/8"

CR9 ALL SCHEDULED REINFORCING BARS SHALL BE DETAILED ACCORDING TO THE BAR BENDING DIAGRAMS, SECTIONS AND DETAILS. FOR BARS IN UNSCHEDULED CONCRETE MEMBERS WITHOUT A SPECIFIED BAR TYPE, SHAPE OR LENGTH, DETAIL BARS ACCORDING TO THE FOLLOWING CRITERIA:
- A. DETAIL ALL BARS CONTINUOUSLY WITH HOOKS AND SPLICES SPECIFIED BELOW.
- B. HOOKS:
  1. ALL BEAM, WALL AND SLAB TOP BARS AND INTERMEDIATE BARS SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
  2. ONE-THIRD OF THE BEAM AND WALL BOTTOM BARS (TWO BARS MINIMUM) SHALL BE TERMINATED AT DISCONTINUOUS ENDS AND AT CANTILEVERED ENDS WITH STANDARD 90 DEGREE HOOK. HOOKS SHALL BE LOCATED AT THE FAR FACE OF THE CONCRETE WITH THE SPECIFIED COVER.
- C. SPLICE TYPES (TYPICAL, UNLESS NOTED OTHERWISE):
  1. #3 TO #11 BARS: LAP SPLICES
  2. #14 AND #18 BARS: MECHANICAL SPLICES
- D. SPLICE LOCATIONS (TYPICAL, UNLESS NOTED OTHERWISE):
  1. SPLICE VERTICAL BARS IN COLUMNS AND WALLS ONLY AT FLOOR LINES. SLOPE OF INCLINED PORTION OF THE OFFSET BENT BARS LAP SPLICES SHALL NOT EXCEED 1 TO 6 (HORIZONTAL TO VERTICAL).
  2. SPLICE TOP BARS AT MIDSPAN BETWEEN SUPPORTS. NOTE - TOP BAR LAP SPLICES ARE NOT ALLOWED AT THE FOLLOWING LOCATIONS:
     a. CANTILEVER SPANS.
     b. SPANS ADJACENT TO CANTILEVERS.
     c. SPANS WITH LENGTHS LESS THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
  3. WHERE SPECIFIED TOP BARS IN ADJACENT BEAMS ARE DIFFERENT, PROVIDE THE LARGER OF THE REINFORCING OVER THE COMMON SUPPORT OF THE TWO ADJACENT BEAMS AND LOCATE THE LAP SPLICE BETWEEN THE LARGER BARS AND THE SMALLER BARS AT MID SPAN OF ONE OF THE BEAMS WITH THE SMALLER BARS SPECIFIED.
  4. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS.
  5. ALTERNATE SPLICES OF INTERMEDIATE BEAM BARS AND HORIZONTAL WALL BARS BETWEEN MIDSPANS AND SUPPORTS, WITH NO MORE THAN 50 PERCENT OF THE BARS ON EITHER FACE SPLICED AT THE SAME LOCATIONS.
  6. ALTERNATE MECHANICAL SPLICE LOCATION BY TWO FEET WITH NO MORE THAN 50 PERCENT OF THE BARS SPLICED AT THE SAME LOCATIONS.

CR10 PROVIDE DOWELS AT ALL EDGES OF CONCRETE SLABS PER TYPICAL SLAB DOWEL DETAIL.

CR11 PROVIDE DOWELS TO MATCH MASONRY WALL VERTICAL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU WALL PER THE LAP SCHEDULES IN CMU TYPICAL DETAILS, U.N.O.

CR12 SPLICING OF WELDED WIRE MESH SHALL BE AS FOLLOWS:
- A. INSTALL WELDED WIRE FABRIC IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS. THE LENGTH OF LAP SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL NOT BE LESS THAN ONE SPACING OF THE CROSS WIRES PLUS 2 INCHES. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.

CR13 EPOXY-COATED REINFORCEMENT:
- A. PROVIDE EPOXY-COATED REINFORCEMENT AS FOLLOWS:
  1. FOR REINFORCING EMBEDDED IN CONCRETE USE HILTI-HY 200 ADHESIVE
  2. FOR REINFORCING EMBEDDED IN CMU WALLS USE HILTI-HY 70 ADHESIVE
- B. EPOXY-COATING OF REINFORCEMENT SHALL CONFORM TO ASTM A 775.
- C. WHEN REQUIRED, REPAIR DAMAGED EPOXY-COATING WITH PATCHING MATERIAL CONFORMING TO ASTM A 775. REPAIR IN ACCORDANCE WITH PATCHING MATERIAL MANUFACTURER'S RECOMMENDATIONS.
- D. FASTEN EPOXY-COATED REINFORCEMENT WITH NYLON-, EPOXY-, OR PLASTIC-COATED WIRE OR EQUIVALENT.
- E. SUPPORT EPOXY-COATED REINFORCEMENT FROM FORMWORK ON COATED WIRE BAR SUPPORTS OR ON BAR SUPPORTS MADE OF DIELECTRIC MATERIAL OR EQUIVALENT.
- F. DO NOT WELD EPOXY-COATED REINFORCEMENT.
- G. DO NOT FIELD BEND EPOXY-COATED REINFORCEMENT.
- H. EPOXY-COATED REINFORCEMENT CUT IN FIELD SHALL HAVE ENDS OF REINFORCEMENT COATED WITH SAME MATERIAL USED FOR REPAIR OF COATING DAMAGE.
- I. FADING OF COLOR OF COATING SHALL NOT BE CAUSE FOR REJECTION.
- J. REINFORCEMENT AT TIME CONCRETE IS PLACED, SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT MAY ADVERSELY AFFECT OR REDUCE BOND. DO NOT CLEAN REINFORCEMENT WITH A MATERIAL OR BY A METHOD WHICH WILL DETERIORATE EPOXY-COATING.

CAST-IN-PLACE CONCRETE:

CIP1 ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT REQUIREMENT OF EITHER THE INTERNATIONAL BUILDING CODE (2015) OR THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) (2014).

CIP2 CONSTRUCTION JOINTS:
- A. PERMITTED ONLY WHERE INDICATED ON DRAWINGS.
- B. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
  1. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST-TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
  2. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
- D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
- E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER.

CIP3 CONDUITS, PIPES AND SLEEVES
- A. VARIOUS CONDUITS, PIPES AND SLEEVES WHICH ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS MAY BE REQUIRED BY EQUIPMENT SUPPLIERS OR THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. COORDINATE AND IMPLEMENT THESE ITEMS INTO THE CONCRETE WORK OBSERVING THE FOLLOWING GUIDELINES.
- B. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL COMPLY WITH ACI 318, AND THESE SPECIFIC NOTES. THESE NOTES SHALL GOVERN WHERE THEY ARE IN CONFLICT WITH ACI. ALUMINUM EMBEDDED ITEMS ARE NOT PERMITTED.
- C. HORIZONTAL CONDUITS AND PIPES EMBEDDED IN SLABS.
  1. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB.
  2. THE CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL NOT BE LESS THAN 3 OUTSIDE DIAMETERS OR 6 INCHES, WHICHEVER IS GREATER.
  3. PLACE CONDUITS AND PIPES WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS.
  4. DO NOT REPOSITION REINFORCING FROM ITS SPECIFIED LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES IN SLABS.
- D. HORIZONTAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS UNLESS NOTED OTHERWISE.
  1. HORIZONTAL SLEEVES, CONDUITS OR PIPES SHALL PASS THROUGH AT RIGHT ANGLES TO THE SIDES OF BEAMS AND SHALL NOT BE PLACED LONGITUDINALLY WITHIN BEAMS.
  2. REFER TO TYPICAL DETAILS FOR ALLOWABLE PLACEMENT AND SIZE OF HORIZONTAL SLEEVES, CONDUITS OR PIPES AND REQUIRED ADDITIONAL REINFORCING.
- E. VERTICAL SLEEVES, CONDUITS OR PIPES EMBEDDED IN CONCRETE BEAMS.
  1. VERTICAL SLEEVES, CONDUITS OR PIPES IN BEAMS SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
- F. SLEEVES, CONDUITS OR PIPES, UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS, ARE NOT ALLOWED IN PILASTERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.
- G. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT PLATES IS NOT PERMITTED WITHIN FIVE FEET IN ANY DIRECTION OF COLUMN FACE UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- H. PLACEMENT OF SLEEVES OR OPENINGS THROUGH TWO-WAY FLAT SLABS WITH DROP PANELS IS NOT PERMITTED WITHIN THE DROP PANEL UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER. SLEEVES OR OPENINGS 6-INCH SQUARE OR SMALLER, MAY BE PLACED OUTSIDE THE ABOVE NOTED REGION.
- I. CORING OF TWO-WAY SLABS IS NOT PERMITTED UNLESS ACCEPTED IN WRITING BY THE ARCHITECT / ENGINEER AND SLAB REINFORCEMENT IS LOCATED AND AVOIDED.

CIP4 WET CURE ALL CONCRETE THAT WILL BE COLORED OR STAINED.

CIP5 HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

CIP6 REMOVAL OF FORMWORK:
- A. EXCEPT AS HEREIN SPECIFIED, REMOVE FORMWORK AND RESHORE IN ACCORDANCE WITH ACI 301 AND RECOMMENDATIONS OF ACI 347 TO ENSURE COMPLETE SAFETY OF FORMWORK AND STRUCTURE.
- B. FORMWORK FOR COLUMNS, WALLS, SIDES OF BEAMS AND OTHER PARTS NOT SUPPORTING WEIGHT OF CONCRETE MAY BE REMOVED AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO RESIST DAMAGE FROM FORMWORK REMOVAL OPERATIONS.
- C. RETAIN FORMS AND SHORING FOR ALL HORIZONTAL WORK UNTIL CONCRETE HAS ACHIEVED AT LEAST 75% OF ITS DESIGNATED 28-DAY COMPRESSIVE STRENGTH AND WILL SAFELY SUPPORT ITS OWN WEIGHT AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.
- D. RETAIN FORMS AND SHORING FOR POST-TENSIONED GIRDERS, BEAMS, AND SLABS UNTIL MEMBER HAS BEEN FULLY TENSIONED AND UNTIL ALL COLUMNS ABOVE HAVE BEEN CAST AND HARDENED. RESHORE AS HEREIN SPECIFIED.

CIP7 RESHORING:
- A. NO CONSTRUCTION LOADS OR LIVE LOADS ARE PERMITTED ON FLOOR DURING STRIPPING AND UNTIL RESHORING IS COMPLETE.
- B. BEGIN RESHORING AFTER FORMS AND SHORES HAVE BEEN REMOVED FROM A LARGE ENOUGH AREA SUCH THAT FLOOR DEFLECTS AND SUPPORTS ITS OWN WEIGHT. COMPLETE RESHORING NO LATER THAN END OF WORKING DAY ON WHICH STRIPPING OCCURS.
- C. PLACE RESHORES SNUG AGAINST SOFFIT OF FLOOR ABOVE. DO NOT TIGHTEN RESHORES AS TO PRELOAD FLOOR BELOW.
- D. LOCATE SHORES AND RESHORES ONLY ABOVE WHERE RESHORES ARE LOCATED BELOW. WHERE SHORES OR RESHORES ARE NOT ALIGNED WITH RESHORES BELOW, SUBMIT DESIGN CALCULATIONS, PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, INDICATING THAT INDUCED STRESSES DO NOT EXCEED CAPACITY OF SLAB.
- E. EXTEND RESHORING OVER A SUFFICIENT NUMBER OF FLOORS TO DISTRIBUTE WEIGHT OF NEWLY PLACED CONCRETE, FORMWORK AND CONSTRUCTION LIVE LOADS IN SUCH A MANNER THAT SPECIFIED DESIGN LIVE LOADS (TAKING INTO ACCOUNT APPLICABLE LIVE LOAD REDUCTION) OF FLOORS BELOW ARE NOT EXCEEDED. NUMBER OF FLOORS REQUIRED TO SUPPORT WET CONCRETE SHALL BE DETERMINED BY CONTRACTOR'S LICENSED ENGINEER.
- F. DO NOT REMOVE RESHORES SUPPORTING ROOFS UNTIL CONCRETE HAS ACHIEVED 100% OF ITS SPECIFIED 28-DAY STRENGTH OR 21 DAYS, WHICHEVER IS LONGER.

CIP8 PROVIDE A MINIMUM 4 INCH THICK HOUSE KEEPING PAD BELOW MEP EQUIPMENT (SEE TYPICAL DETAIL). REFER TO THE MEP OR ARCH PLANS FOR LOCATIONS AND SIZES OF THESE PADS.

CIP9 UNLESS SPECIFICALLY NOTED OTHERWISE, THE TOP OF ALL CONCRETE SURFACES THAT SUPPORT PRECAST, MASONRY, CURTAIN WALL SYSTEMS, ETC., SHALL HAVE A TROWELED FINISH AND BE FLAT AND LEVEL

CIP10 WATERSTOPS:
- A. PROVIDE WATERSTOPS AT ALL SUBGRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THE EARTH SUBGRADE AT THE JOINT IS ON ONE SIDE OF THE CONCRETE MEMBER ONLY. PROVIDE WATERSTOPS AT OTHER LOCATIONS AS INDICATED IN THE DOCUMENTS.

CIP11 PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS, JOISTS, WALLS AND SLABS (INCLUDING SLABS ON CARTON FORMS, IF APPLICABLE) IN ACCORDANCE WITH THE TYPICAL DETAILS.

CIP12 GRADE BEAMS AT DOCKS AND SIMILAR CONDITIONS (BOTH EXTERIOR AND INTERIOR) WHERE BACKFILL IS PLACED UP TO OR NEAR THE TOP OF THE BEAM OR WALL ON ONE SIDE AND THE GRADE ON THE OTHER SIDE OF THE BEAM OR WALL IS MORE THAN 2'-0" LOWER SHALL BE LATERALLY BRACED FROM THE LOW SIDE PRIOR TO PLACING THE FILL ON THE OTHER SIDE. THIS BRACING SHALL REMAIN UNTIL THE FLOOR SLAB AT THE TOP OF THE BEAM OR WALL HAS BEEN CONSTRUCTED AND HAS ATTAINED ITS SPECIFIED 28 DAY STRENGTH.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 001

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:09:57 PM

A|G
&E
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

EMBEDDED SHEAR-STUD CONNECTORS:

SC1 SHEAR-STUD CONNECTIONS SHALL BE NELSON FLUXED SHEAR CONNECTORS (SC) OR APPROVED EQUAL. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR IN THE FIELD. ALL STUD WELDS SHALL BE MANUFACTURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE NELSON STUD WELDING DIVISION, LORAIN, OHIO. SHEAR-STUDS SHALL BE MANUFACTURED OF C1015, C1017, OR C1020 COLD DRAWN STEEL CONFORMING TO ASTM A108.

POST-INSTALLED CONCRETE ANCHORS:

PA1 USE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBMIT SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CONTACT MANUFACTURE'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

PA2 POST INSTALLED CONCRETE ANCHORS SHALL BE OF SIZE, TYPE, AND QUANTITY AS NOTED ON DETAILS, AS MANUFACTURED BY HILTI, SIMPSON STRONG-TIE, OR POWERS ANCHOR SYSTEMS. NO OTHER MANUFACTURER IS PERMITTED. ANCHORS FROM ONLY ONE MANUFACTURER SHALL BE UTILIZED ON THE PROJECT.

PA3 HOLES IN CONNECTION PLATES FOR EXPANSION BOLTS SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. IF FIELD CONDITIONS OR TOLERANCES REQUIRE LARGER HOLES, PROVIDE PLATE WASHERS WITH BOLTS HOLES 1/16" LARGER THAN BOLT DIAMETER THAT ARE WELDED TO THE CONNECTION PLATE. THE CONTRACTOR SHALL SIZE THE PLATE WASHERS AND WELDS TO TRANSFER THE SHEAR AND TENSION CAPACITY OF THE EXPANSION BOLT.

PA4 INSTALL ALL POST INSTALLED BOLTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

PA5 PRIOR TO DRILLING FOR ANCHORS, A PACHOMETER OR ANOTHER APPROVED METHOD SHALL BE USED TO LOCATE EXISTING REINFORCING TO ENSURE THERE IS NO CONFLICT. IF A CONFLICT EXISTS, THE ANCHORS POSITION CAN BE ADJUSTED BY NO MORE THAN 1 INCH. IF A LARGER DEVIATION IS NECESSARY, CONTACT THE ENGINEER. ABANDONED OR UNUSED HOLES SHALL BE FILLED WITH EPOXY GROUT.

PA6 ONCE THE FINAL POSITION OF THE ANCHORS IS SET, TEMPLATES SHALL THEN BE UTILIZED TO TRANSFER THE FINAL LOCATION OF THE BOLT GROUP ON TO THE CONNECTION PLATE.

PA7 CONSTRUCTION OF POST INSTALLED ANCHORS REQUIRES CONTINUOUS INSPECTION BY THE TESTING LAB TO ENSURE PROPER EMBEDMENT AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

ARCHITECTURAL (NON-STRUCTURAL) CONCRETE UNIT MASONRY:

NSM1 REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF ARCHITECTURAL (NON-STRUCTURAL) MASONRY WALLS ON THE PROJECT.

NSM2 LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C331 WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 1,900 PSI. CONCRETE MASONRY UNITS SHALL BE COMPOSED OF LIGHTWEIGHT AGGREGATE.

NSM3 MORTAR SHALL CONFORM TO ASTM C270, TYPE "S", CEMENT-LIME MORTAR, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI. MASONRY CEMENT AND MORTAR CEMENT SHALL NOT BE USED.

NSM4 GROUT SHALL CONFORM TO ASTM C476, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

NSM5 MASONRY SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'm) OF 1,500 PSI.

NSM6 REINFORCING STEEL SHALL CONSIST OF DEFORMED GRADE 60 BARS CONFORMING TO ASTM A615. BARS SHALL BE NEW BILLET STEEL OF A DOMESTIC MANUFACTURE.

NSM7 GROUT SHALL BE MECHANICALLY CONSOLIDATED (VIBRATED), AND RECONSOLIDATED, USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.

NSM8 HORIZONTAL JOINT REINFORCEMENT SHALL BE STEEL WIRE (LADDER TYPE) AND SHALL CONFORM TO ASTM A951. JOINT REINFORCEMENT SHALL BE SPACED AT 16" OC VERTICALLY.

NSM9 CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.

NSM10 CONCRETE MASONRY UNITS LOCATED BELOW GRADE SHALL HAVE ALL CELLS FULLY GROUTED AND CONCRETE MASONRY UNITS LOCATED ABOVE GRADE SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE.

NSM11 INSTALL TEMPORARY BRACING AT ALL CMU WALLS. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE NON-STRUCTURAL STRUCTURE.

NSM12 REFER TO THE CMU WALL VERTICAL REINFORCING SCHEDULE FOR WALL REINFORCEMENT.

NSM13 REFER TO THE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT OPENINGS, CONTROL JOINTS, CORNERS AND ENDS OF WALL PANELS.

NSM14 PROVIDE HORIZONTAL REINFORCEMENT AS INDICATED IN THE CMU WALL REINFORCING DIAGRAM. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.

NSM15 MASONRY CONSTRUCTION REQUIRES SPECIAL INSPECTION. REFERENCE SPECIAL INSPECTION REQUIREMENTS ON THE INSPECTIONS SCHEDULE SHEET.

STRUCTURAL CONCRETE UNIT MASONRY:

CM1 THESE NOTES APPLY ONLY TO MASONRY INDICATED ON THE STRUCTURAL FRAMING PLANS. MASONRY NOT INDICATED ON THE STRUCTURAL FRAMING PLANS IS NOT PART OF THE STRUCTURAL FRAME AND IS CONSIDERED ARCHITECTURAL (NON-STRUCTURAL) MASONRY.
- A. HOWEVER, ARCHITECTURAL (NON-STRUCTURAL) MASONRY MAY ALSO REQUIRE REINFORCING AND REQUIREMENTS FOR THIS REINFORCING CAN BE FOUND AS FOLLOWS:
  1. ARCHITECTURAL (NON-STRUCTURAL) MASONRY VERTICAL REINFORCING:
     - a. REFER TO "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" IN THE STRUCTURAL DRAWINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
  2. ARCHITECTURAL (NON-STRUCTURAL) MASONRY HORIZONTAL REINFORCING (INCLUDING HORIZONTAL JOINT REINFORCING):
     - a. REFER TO THE TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS FOR HORIZONTAL REINFORCING IN LINTELS AND BOND BEAMS OVER WALL OPENINGS.
     - b. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

CM2 ALL STRUCTURAL MASONRY INDICATED ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS INCLUDING CLIP ANGLES, DOWELS, AND ADDITIONAL SECONDARY FRAMING MEMBERS ETC. INDICATED ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING.

CM3 PROVIDE MASONRY PRISM STRENGTH (F'M)= 2,000 PSI, MINIMUM.

CM4 HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C 90, LIGHTWEIGHT, GRADE N, TYPE I OR II, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI ON THE NET AREA OF THE BLOCK. UNLESS NOTED OTHERWISE, USE RUNNING BOND CONSTRUCTION.

CM5 MORTAR SHALL CONFORM TO ASTM C 270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME AND 3 1/2 TO 4 1/2 PARTS FINE AGGREGATE. DO NOT USE AIR ENTRAINING LIME, MASONRY CEMENT OR ADMIXTURES. MEASURE MATERIALS WITH A BATCHING BOX - DO NOT MEASURE MATERIALS WITH A SHOVEL.

CM6 COARSE GROUT SHALL CONFORM TO ASTM C 476, WITH A MAXIMUM FINE AGGREGATE SIZE OF 3/8", A MAXIMUM COARSE AGGREGATE SIZE OF 1/2" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 0 TO 1/10 PART LIME, 2 1/4 TO 3 PARTS FINE AGGREGATE AND 1 TO 2 PARTS COARSE AGGREGATE. SLUMP SHALL BE 8" TO 11".

CM7 FINE GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT AND 2 1/4 TO 3 PARTS FINE AGGREGATE.

CM8 REFER TO TYPICAL STRUCTURAL CMU WALL REINFORCING SCHEDULE FOR VERTICAL CMU WALL REINFORCING UNLESS NOTED OTHERWISE IN THE DRAWINGS. REFER TO TYPICAL MASONRY DIAGRAM FOR DOWELS BETWEEN FOUNDATION AND MASONRY WALLS AND OTHER REINFORCING.

CM9 HORIZONTAL WALL REINFORCING IN BOND BEAMS OR TROUGH BLOCK UNITS SHALL BE STRAIGHT, PLACED CONTINUOUSLY AND FULLY GROUTED IN PLACE. REFER TO SCHEDULES, SECTIONS AND DETAILS FOR SPECIFIED HORIZONTAL REINFORCING. SPLICE BARS WHERE REQUIRED PER TENSION LAP SCHEDULE FOR STEEL REINFORCING IN CMU MINIMUM, TYPICAL UNLESS NOTED OTHERWISE, AND TIE THEM WITH WIRE.

CM10 REFER TO SCHEDULES, SECTIONS AND DETAILS FOR REINFORCING IN GROUTED COLUMNS, PILASTERS AND BEAMS. CLEAR GROUT COVER MEASURED TO THE OUTERMOST BAR, STIRRUP OR TIE SHALL BE 1".

CM11 CONTINUOUS HORIZONTAL JOINT REINFORCING:
- A. SINGLE WYTHE WALLS:
  1. CONTINUOUS HORIZONTAL WALL JOINT REINFORCING FOR SINGLE WYTHE WALLS SHALL BE GALVANIZED, **STANDARD,** TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- B. CAVITY WALLS:
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD, TRUSS TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE") TIES, TRUSS TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- C. CAVITY WALLS WITH TOTAL THICKNESS GREATER THAN 1'-4".
  1. WHERE MODULAR MASONRY UNITS ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** TRIROD,**TRUSS** TYPE "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. DO NOT USE ADJUSTABLE("PINTLE") TYPE TIES.
  2. WHERE NON-MODULAR MASONRY UNITS, SUCH AS KING SIZE BRICK, ARE BACKED UP BY CONCRETE MASONRY UNITS, PROVIDE GALVANIZED, **STANDARD,** ADJUSTABLE ("PINTLE"), **TRUSS** TYPE "DUR-O-WALL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE.
- D. PROVIDE CONTINUITY AT CORNERS AND INTERSECTIONS WITH PREFABRICATED CORNER AND TEE UNITS.
- E. SPLICE STANDARD HORIZONTAL WALL JOINT WIRE REINFORCING 11" MINIMUM AND PROVIDE AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
- F. COVER FROM JOINT REINFORCING TO EDGE OF MORTAR SHALL BE 5/8".

CM12 PROVIDE SHOP DRAWINGS SHOWING DETAILS OF BENDING AND PLACEMENT OF MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF REINFORCED WALLS AT OPENINGS AND AT OTHER LOCATIONS WHERE THE SPECIFIED REINFORCING IS MORE INVOLVED THAN SIMPLE VERTICAL BARS AT A SPECIFIED SPACING.

CM13 UNGROUTED MASONRY WALL CELLS MAY BE REQUIRED TO BE FILLED WITH SAND, VERMICULITE OR PERLITE FOR FIRE RATING, SOUNDPROOFING OR OTHER PURPOSES. REFER TO THE ARCHITECTURAL DRAWINGS FOR THESE REQUIREMENTS.

CM14 WHERE NOT INDICATED IN THE STRUCTURAL DRAWINGS (EXCEPT AT GROUTED WIDE CAVITY WALLS), PROVIDE 3/8" VERTICAL THROUGH-WALL CONTROL JOINTS AT 5'-0" TO 12'-6" FROM CORNERS AND AT 25'-0" OC MAX. IN BETWEEN, THE ARCHITECTURAL DRAWINGS MAY INDICATE VERTICAL CONTROL JOINTS IN THE MASONRY FACADE AT EACH EDGE OF WALL OPENINGS. HOWEVER, CONTROL JOINTS IN THE BACKUP CMU SHALL NOT BE LOCATED WITHIN WALL OPENINGS, AT THE EDGE OF WALL OPENINGS OR WITHIN THE VERTICAL GROUTED CELLS AT EACH SIDE OF THE WALL OPENINGS, REGARDLESS OF WHERE THE CONTROL JOINTS ARE INDICATED IN THE ARCHITECTURAL DRAWINGS FOR THE MASONRY FACADE. COORDINATE JOINT LOCATIONS TO MISS BEAM AND JOIST BEARINGS. CUT ALL HORIZONTAL REINFORCING AT CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE GROUTED CELLS AND REINFORCING AT EACH SIDE OF THE JOINT THE SAME AS AT THE END OF THE WALL. SUBMIT JOINT LAYOUT TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING WALL CONSTRUCTION. FOR STRUCTURAL MASONRY WALLS THAT ARE SHOWN IN THE STRUCTURAL DRAWINGS, THIS CRITERIA FOR CONTROL JOINT LOCATIONS TAKES PRIORITY OVER JOINT LOCATIONS THAT MAY OR MAY NOT BE SHOWN IN THE ARCHITECTURAL DRAWINGS FOR STRUCTURAL MASONRY WALLS.

CM15 LIMIT GROUT POURS TO 12 FEET IN HEIGHT FOR 8" AND THICKER WALLS AND 5 FEET IN HEIGHT FOR 6" THICK WALLS. BETWEEN GROUT POURS, FORM CONSTRUCTION JOINT BY LEAVING GROUT 1 1/2 INCHES BELOW THE MORTAR JOINT (1/2 INCH AT BOND BEAMS).

CM16 CLEANOUTS ARE REQUIRED FOR GROUT POURS OVER 5 FT. PROVIDE CLEANOUTS IN THE BOTTOM COARSE OF THE GROUT POUR AT EVERY VERTICAL BAR MINIMUM. CLEANOUTS SHALL BE ON NON-FINISHED SIDE OF MASONRY CONSTRUCTION.

CM17 PROVIDE TEMPORARY LATERAL WALL BRACING AS REQUIRED UNTIL THE FLOOR AND ROOF CONSTRUCTION, INCLUDING ALL STRUCTURAL COMPONENTS, AT THE TOP AND THE BOTTOM OF THE WALLS HAVE BEEN COMPLETED.

CM18 THE FOLLOWING NOTES APPLY ONLY TO GROUTED CAVITY WALLS THAT USE BRICK/MASONRY BLOCKS AND JOINT REINFORCING AS A FORM FOR GROUTED COLUMNS, PILASTERS AND BEAMS WITHIN THE WALL.
- A. HORIZONTAL WALL JOINT REINFORCING FOR GROUTED CAVITY WALLS SHALL BE GALVANIZED **STANDARD, TRUSS TYPE** "DUR-O-WAL", OR EQUAL, AT **16"** ON CENTER, VERTICALLY, TYPICAL, UNLESS NOTED OTHERWISE. BOTH CROSS RODS AND SIDE RODS SHALL BE 3/16" IN DIAMETER. DO NOT USE ADJUSTABLE JOINT REINFORCING IN GROUTED CAVITY WALLS.
- B. PROVIDE Z TIES BETWEEN BRICK/MASONRY BLOCKS AND GROUT. Z TIES SHALL BE 3/16" DIAMETER X10" (TOTAL LENGTH) COLD DRAWN GALVANIZED WIRE WITH 2" LEG AT EACH END, CONFORMING TO ASTM A 82 TYPICAL. UNLESS NOTED OTHERWISE. PLACE ONE LEG IN MORTAR JOINT PARALLEL TO AND AT 3/4" FROM OUTSIDE FACE OF THE BRICK AND THE OTHER LEG IN GROUT.
  1. PLACE Z TIES AT 16" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL BRICK SURFACES, TYPICAL, UNLESS NOTED OTHERWISE.
  2. AT LINTEL BEAMS, PLACE Z TIES AT 8" OC EACH WAY IN BOTH VERTICAL AND HORIZONTAL (BOTTOM) BRICK SURFACES. Z TIES SHALL BE HOOKED AROUND 1/4" DIAMETER GALVANIZED RODS LOCATED IN THE HOLES THROUGH THE BOTTOM BRICKS.
- C. PROVIDE WEEP HOLES AT 2'-8" OC (2 WEEP HOLES MINIMUM) THROUGH THE EXTERIOR WYTHE OF THE MASONRY/BRICK VERTICAL JOINTS OVER FOUNDATION BEAMS/WALLS, BOND BEAMS, LINTEL BEAMS AND ALL OTHER PLACES WHERE CAVITY IS CONTINUOUSLY BLOCKED.
- D. INSULATION, WHERE SPECIFIED IN THE ARCHITECTURAL DRAWINGS, SHALL BE PLACED IN THE CAVITY IN STRIPS BETWEEN HORIZONTAL WALL JOINT REINFORCING AND SHALL NOT BE PLACED INTO GROUTED COLUMNS, PILASTERS OR BEAMS.

STATEMENT OF SPECIAL INSPECTIONS:

SI1 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE WITH LOCAL AMENDMENTS. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS SERVICES APPLICABLE TO THIS PROJECT.

SI2 THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS, APPROVED BY THE BUILDING OFFICIAL, TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION IN ACCORDANCE WITH BUILDING CODE. SPECIAL INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES.

SI3 THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT REPORTS OF INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATED THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. INTERIM TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED ON A DAILY BASIS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.

SI4 IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE REQUIRED SPECIAL INSPECTIONS AND TESTS ARE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

SI5 ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS AND TESTING PER THE BUILDING CODE ARE NOT LISTED HERE. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.

SI6 THE FOLLOWING SPECIAL INSPECTIONS AND TESTS SCHEDULE CONTAINS A LIST OF THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS AND/OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK. REFER TO THE GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS. WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.

SPECIAL INSPECTIONS AND TESTS SCHEDULE PER IBC 2015

CHECK IF APPLICABLE	MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS BY THE SPECIAL INSPECTOR RESPONSIBLE FOR EACH PORTION OF THE WORK	SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION
☐	STRUCTURAL STEEL	1705.2
■	CONCRETE CONSTRUCTION	1705.3
■	MASONRY CONSTRUCTION	1705.4
☐	WOOD CONSTRUCTION	1705.5
■	SOILS	1705.6
☐	DRIVEN DEEP FOUNDATIONS	1705.7
☐	CAST-IN-PLACE DEEP FOUNDATIONS	1705.8
☐	HELICAL PILE FOUNDATIONS	1705.9
☐	FABRICATED ITEMS	1705.10
☐	SPECIAL INSPECTIONS FOR WIND RESISTANCE	1705.11
☐	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	1705.12
☐	TESTING FOR SEISMIC RESISTANCE	1705.13

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 002

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:09:57 PM
DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

STRUCTURAL SUBMITTALS

SPECIFICATION SECTION	ITEM	FOR INFORMATION ONLY	FOR APPROVAL	SIGNED AND SEALED
03 10 00	FORMWORK SHOP DRAWINGS	X		X
03 10 00	MANUFACTURER'S PRODUCT DATA		X	
03 10 00	CONSTRUCTION JOINT LAYOUT	X		
03 11 31	VOID FORM PRODUCT DATA		X	
03 20 00	STEEL REINFORCING SHOP DRAWINGS		X	
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS		X	
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS		X	
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	X		
03 20 00	QUALIFICATION DATA	X		
03 20 00	WELDING CERTIFICATES	X		
03 30 00	CONCRETE MIX DESIGN		X	
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE		X	
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS		X	
03 30 00	PRODUCT DATA	X		
03 30 00	QUALIFICATION DATA	X		
03 30 00	MATERIAL TEST REPORTS	X		
03 30 00	FLOOR SURFACE FLATNESS	X		
03 30 00	FIELD QUALITY CONTROL REPORTS	X		
03 30 00	MINUTES OF PREINSTALLATION CONFERENCE	X		
04 22 00	CMU WALL SHOP DRAWINGS		X	
04 22 00	MIX DESIGN (MORTAR AND GROUT)		X	
04 22 00	MASONRY COMPRESSIVE STRENGTH		X	
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION		X	
04 22 00	MATERIAL CERTIFICATES	X		
04 22 00	COLD/HOT WEATHER PROCEDURES	X		
04 22 00	QUALIFICATION DATA	X		
06 10 00	PRODUCT DATA	X		
06 10 00	FASTENER PATTERNS		X	
06 10 00	MATERIAL CERTIFICATES	X		
06 10 00	EVALUATION REPORTS	X		
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS		X	
31 63 29	PIER CONCRETE MIX DESIGN		X	
31 63 29	PIER DRILLING LOG	X		

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIERS'S ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.

2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.

4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.

5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

DESIGN LOADS & DESIGN DATA

1.	BUILDING CODE		2015 INTERNATIONAL BUILDING CODE (IBC) / ASCE/SEI 7-10 WITH LOCAL AMENDMENTS	
2.	GRAVITY LOADS & DESIGN DATA			
	A.	DEAD LOADS	SELF WEIGHT	
	B.	SNOW LOADS		
	1.	GROUND SNOW LOAD, P_g	0 PSF	
	2.	FLAT ROOF SNOW LOAD, P_f	0 PSF	
	3.	SNOW EXPOSURE FACTOR, C_e	0.9	
	4.	SNOW RISK CATEGORY	III	
	5.	SNOW LOAD IMPORTANCE FACTOR, I	1.1	
	6.	THERMAL FACTOR, C_t	1.2	
3.	LATERAL LOADS & DESIGN DATA			
	A.	WIND DESIGN DATA		
	1.	BASIC WIND SPEED, V	139 MPH (3-SECOND GUST)	
	2.	WIND RISK CATEGORY	III	
	3.	WIND IMPORTANCE FACTOR, I	1.0	
	4.	WIND EXPOSURE CATEGORY	C	
	5.	INTERNAL PRESSURE COEFFICIENT, GC_{pi}	±0.18	
	C.	SEISMIC DESIGN DATA		
	1.	SEISMIC RISK CATEGORY	III	
	2.	SEISMIC IMPORTANCE FACTOR, I	1.25	
	3.	SHORT PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_s	0.042g	
	4.	1-SEC PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION, S_1	0.014g	
	5.	SITE CLASS	D	
	6.	SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.045g	
	7.	1-SEC PERIOD SPECTRAL RESPONSE COEFFICIENT, S_{D1}	0.022g	
	8.	SEISMIC DESIGN CATEGORY	A	
	9.	RESPONSE MODIFICATION FACTOR, R	2	
	10.	SYSTEM OVERSTRENGTH FACTOR, Ω	2.5	
	11.	DEFLECTION AMPLIFICATION FACTOR, Cd	2	
	12.	SEISMIC RESPONSE COEFFICIENT, Cs	0.028	
	13.	DESIGN BASE SHEAR, V	0.028W	
	14.	BASIC SEISMIC FORCE-RESISTING SYSTEM	NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
	15.	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE	
4.	DEFLECTION LIMITS			
	C.	MEMBERS SUPPORTING MASONRY		
	1.	LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	L/600 or 0.3-INCH	

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 004

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO

CHECKED BY: TCRYER

DRAWN BY: AGLUZMAN

Friday, August 02, 2019 2:09:57 PM

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:09:57 PM
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
A G & E Structural Engenuity

SYMBOLS LEGEND

TOS EL 115'-0"	LEVEL ELEVATION
EL 115'-0"	SPOT ELEVATION
	VERTICAL BRACE
	LOAD BEARING CMU WALL AND/OR SHEARWALL
	LOAD BEARING CONC WALL AND/OR SHEARWALL
	MATCHLINE
4 S3.10 — DETAIL / SECTION DESIGNATION	DETAIL / SECTION REFERENCE CUT
4 S3.10	PARTIAL PLAN OR PLAN DETAIL REFERENCE
1 S-201	VERTICAL BRACE, SHEARWALL OR TRUSS ELEVATION REFERENCE
	SLOPE IN STRUCTURE, DROP IN STRUCTURE, RIDGES AND VALLEYS
RTU-1 — UNIT DESIGNATION PER MEP DRAWINGS REF SCHED FOR FULL OPERATING WEIGHT	MEP EQUIPMENT
*FACTORED TOTAL LOAD; JOIST DEPTH; DDCJ XXX / YYY / ZZZ; *FACTORED POST COMPOSITE LIVE LOAD; *FACTORED POST COMPOSITE DEAD LOAD; *NOTE: ALL JOIST GIRDER POINT LOADS HOWEVER ARE SERVICE LEVEL.	COMPOSITE JOIST (CJ) KEY
STEEL COLUMN; STEEL BEAM; DENOTES MOMENT CONNECTION (REF TYPICAL STEEL DETAILS FOR MOMENT CONN REQUIREMENTS)	MOMENT CONNECTION
HSS6x6x1/4 BP1; F1; FOOTING TYPE; 97'-0"; SPECIAL BASE PL TYPE; TOP OF FOOTING ELEVATION W10X33 BP1; P1; PIER TYPE; 97'-0"; SPECIAL BASE PL TYPE; TOP OF PIER ELEVATION	COLUMN, BASE PLATE AND FOUNDATION MARK
NUMBER OF HEADED SHEAR STUDS (IF REQD); STL BEAM SIZE; VERT BEAM REACTION IN KIPS; BEAM CAMBER (INCHES) (IF REQD); HORIZONTAL COLLECTOR / DRAG FORCE IN KIPS ON BOTH SIDES OF COLUMN (IF REQD); 15K W14x22 (20) C=3/4" 15K; H=15K; [-6"]; TO BEAM IF DIFFERENT FROM REFERENCE EL; COLLECTOR / DRAG CONNECTION (IF REQD)	STEEL BEAM KEY

1 SYMBOLS LEGEND
1/8" = 1'-0"

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LOC	LOCATION
AFF	ABOVE FINISHED FLOOR	LONG	LONGITUDINAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ARCH	ARCHITECTURAL	LWC	LIGHT WEIGHT CONCRETE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MAX	MAXIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MC	MOMENT CONNECTION
AWS	AMERICAN WELDING SOCIETY	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BL	BLOCK LINTEL	MIN	MINIMUM
BM	BEAM	MISC	MISCELLANEOUS
BO	BOTTOM OF	MO	MASONRY OPENING
BOS	BOTTOM OF STEEL	MTL	METAL
BOT	BOTTOM	NIC	NOT IN CONTRACT
BP	BASE PLATE	NO	NUMBER
BRG	BEARING	NS	NEAR SIDE
BTWN	BETWEEN	NTS	NOT TO SCALE
CGS	CENTROID OF TENDONS	NWC	NORMAL WEIGHT CONCRETE (150 PCF)
CIP	CAST IN PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OH	OPPOSITE HAND
CJP	COMPLETE JOINT PENETRATION	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PCC	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
CONN	CONNECTION	PT	POST-TENSIONING INSTITUTE
CONC	CONCRETE	PE	PROFESSIONAL ENGINEER
CONST	CONSTRUCTION	PEMB	PRE-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PENTR	PENETRATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DBA	DOWEL BAR ANCHOR	PLF	POUNDS PER LINEAR FOOT
DL	DEAD LOADS	PP	PARTIAL PENETRATION
DT	DOUBLE TEE	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EDC	ELECTRICAL DISTRIBUTION CENTER	PT	POST-TENSIONING
EF	EACH FACE	QTY	QUANTITY
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RAF	RAISED ACCESS FLOOR
EJ	EXPANSION JOINT	REF	REFER TO
EL	ELEVATION	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
EQ	EQUAL	REV	REVERSE
EQUIV	EQUIVALENT	RO	ROUGH OPENING
EW	EACH WAY	RTU	ROOF TOP UNIT
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SE	STRUCTURAL ENGINEER
EXT	EXTERIOR	SHT	SHEET
FABR	FABRICATOR	SIM	SIMILAR
FDN	FOUNDATION	SJI	STEEL JOIST INSTITUTE
FF	FINISHED FLOOR	SOG	SLAB ON GRADE
FM	FACTORY MUTUAL	SPECS	SPECIFICATIONS
FRP	FIBER REINFORCED PLASTIC	STAG	STAGGERED
FS	FAR SIDE	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
FV	FIELD VERIFY	STRUC	STRUCTURAL
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TC	TRANSFER COLUMN
GR	GRADE	THK	THICKNESS
GYP BD	GYPSUM BOARD	TO	TOP OF
H	HEIGHT	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOF	TOP OF FOOTING
HSA	HEADED STUD ANCHOR	TOGB	TOP OF GRADE BEAM
IBC	INTERNATIONAL BUILDING CODE	TOM	TOP OF MASONRY
INFO	INFORMATION	TOP	TOP OF PAVING
INT	INTERIOR	TOS	TOP OF STEEL
ISO	ISOLATION	TOSC	TOP OF STRUCTURAL CONCRETE
IT	INVERTED TEE	TOW	TOP OF WALL
JBE	JOIST BEARING ELEVATION	TRANS	TRANSVERSE
JST	JOIST	T&S	TEMPERATURE AND SHRINKAGE
JT	JOINT	TYP	TYPICAL
KIP	1000 POUNDS	UL	UNDERWRITERS LABORATORIES
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
L	LENGTH	VERT	VERTICAL
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE	W	WIDTH
LB	POUNDS	WP	WORK POINT
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC

2 ABBREVIATION LEGEND
12" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
08/07/2019
G&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

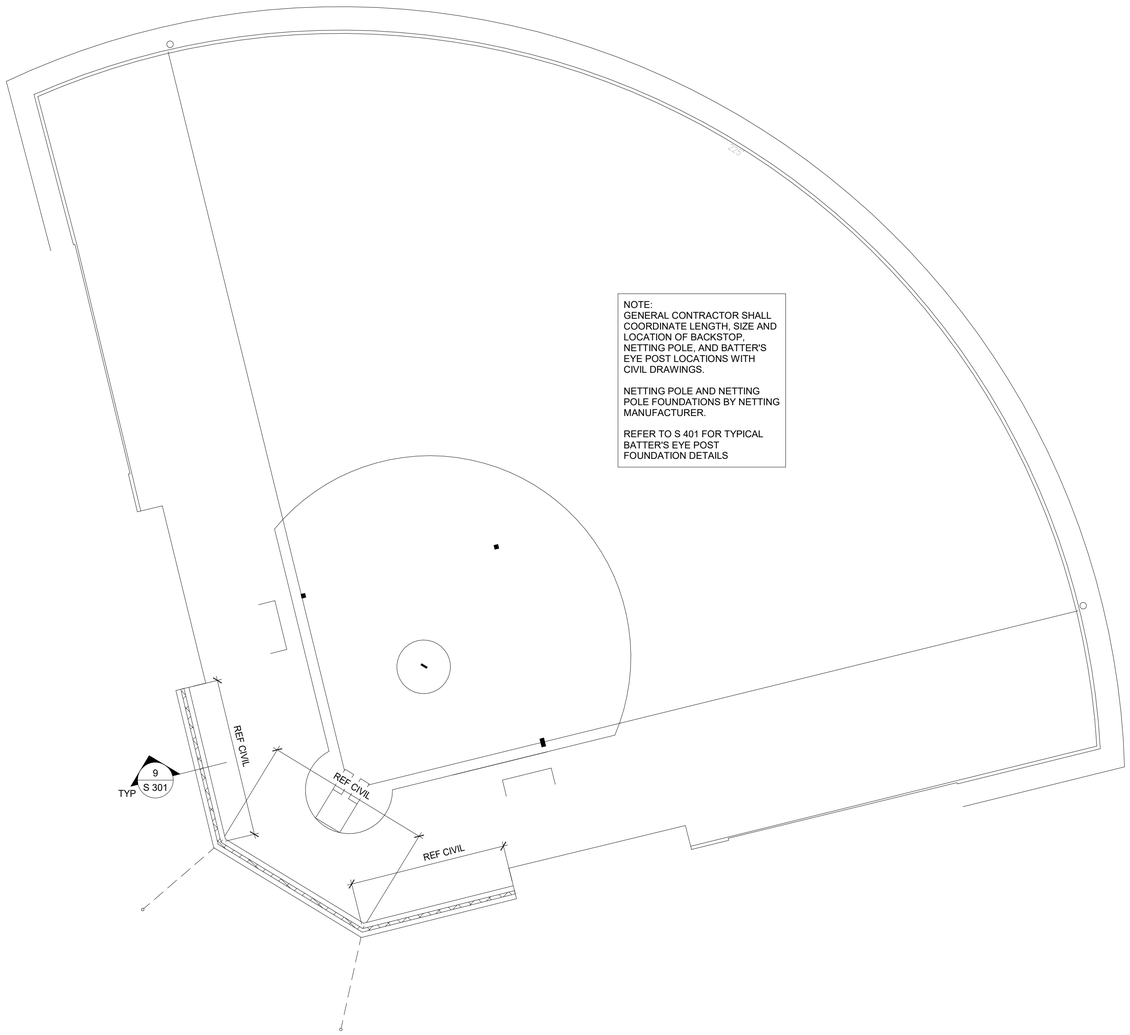
No.	Description	Date

ISSUED FOR PROPOSAL

GENERAL NOTES

S 005

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



1 PJSA HIGH SCHOOL SOFTBALL SITE PLAN
3/64" = 1'-0"

SHEET NOTES

1. VERIFY ALL WALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.
2. DEVIATIONS FROM CONST JOINT/CONTROL JOINT PATTERN SHOWN MUST BE APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO S 300 SERIES FOR FOOTING DETAILS AND SCHEDULES.
4. REFER TO SHEET S 400 FOR ALL CMU REINFORCING
7. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
8. THE INFORMATION CONTAINED IN THESE PLANS ARE BASED ON EXISTING BUILDING CONSTRUCTION PLANS AND LIMITED AS-BUILTING. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OF NEW STEEL. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES. ANY APPROVED CHANGES SHALL BE INCORPORATED INTO THE ERECTION / SHOP DRAWINGS PRIOR TO SUBMISSION.

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

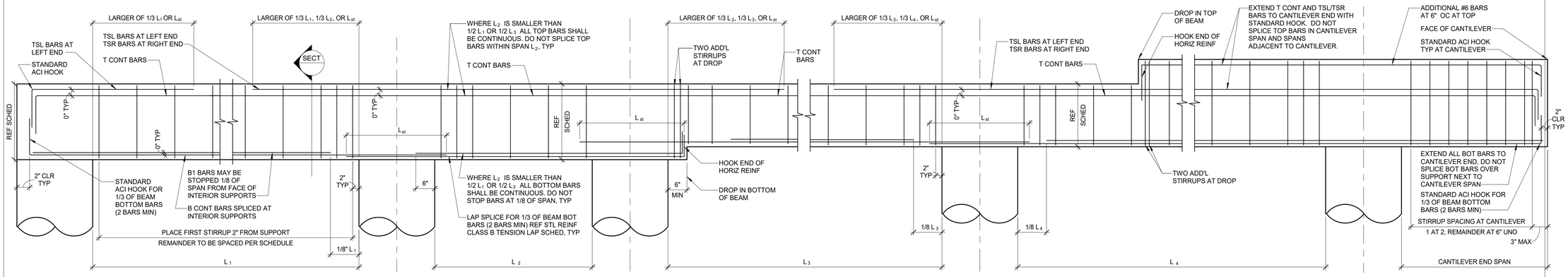
ISSUED FOR PROPOSAL

PSJA HS SOFTBALL SITE PLAN

S 204

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:09:57 PM

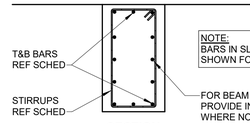
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



NOTES:

1. L_{st} = LAP SPLICE LENGTH - REF TYP STL REINF CLASS B TENSION LAP SCHED
2. SCHEDULED LEFT AND RIGHT END OF MEMBERS READ ON PLAN AS LEFT AND RIGHT OF THE SHEET OR BOTTOM AND TOP OF THE SHEET RESPECTIVELY AS SHOWN BELOW. SCHEDULED LEFT AND RIGHT END OF MEMBERS SHOWN DIAGONALLY ON PLAN READ AS LEFT AND RIGHT ON SHEET AS SHOWN BELOW:

3. T CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
4. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
5. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.



NOTE:
BARS IN SLAB NOT SHOWN FOR CLARITY.

FOR BEAM DEPTHS GREATER THAN 36" PROVIDE INTERMEDIATE BARS PER 5-S301 WHERE NOT SHOWN IN BEAM SCHEDULE

SECTION

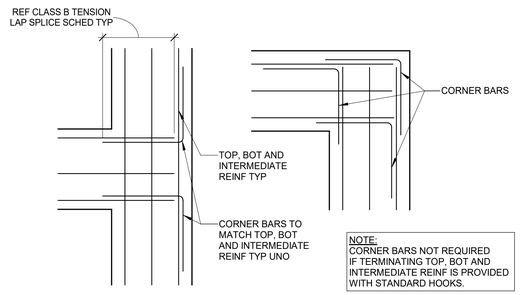
7 TYPICAL CONCRETE GRADE BEAM BAR PLACING DIAGRAM

3/4" = 1'-0"

PLAN

6 TYPICAL VERTICAL SLEEVES IN CONCRETE BEAMS

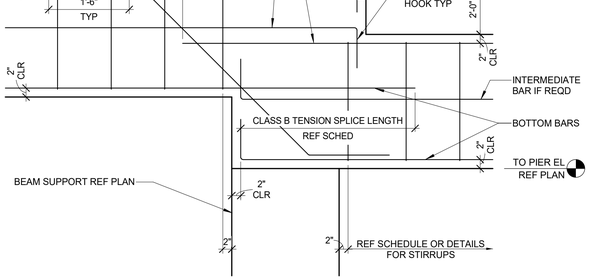
3/4" = 1'-0"



NOTE:
CORNER BARS NOT REQUIRED IF TERMINATING TOP, BOT AND INTERMEDIATE REINF IS PROVIDED WITH STANDARD HOOKS.

3 TYPICAL CORNER BAR REINFORCING

3/4" = 1'-0"



5 TYPICAL BEAM STEP

3/4" = 1'-0"

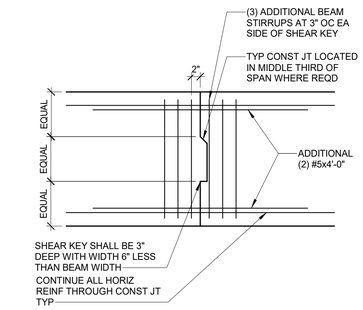
ELEVATION

NOTES:
1. LOCATE BEAM OPENING IN MIDDLE 1/3 OF BEAM SPAN, 6" CLEAR FROM INTERSECTING BEAMS OR JOISTS AND 1.5H AWAY FROM FACE OF SUPPORT.
2. CONTACT EOR FOR ANY OPENING NOT MEETING THESE CONDITIONS.
3. OPENINGS/SLEEVES SHALL PASS THROUGH BEAMS IN RIGHT ANGLES.

a = SMALLER OF H/4 OR 1'-0"
b = SMALLER OF H/4 OR 1'-0"
c = LARGER OF 3a OR 3b OR 6"

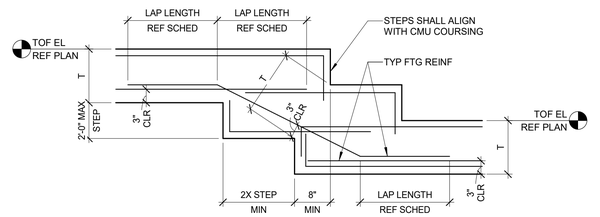
4 TYPICAL HORIZONTAL OPENING IN BEAM

3/4" = 1'-0"



2 TYPICAL BEAM CONST JT

3/4" = 1'-0"



1 TYP FOOTING STEP

3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT	PSJA ISD
PROJECT NUMBER	19141SP
DATE	08/07/2019

REVISIONS

No.	Description	Date

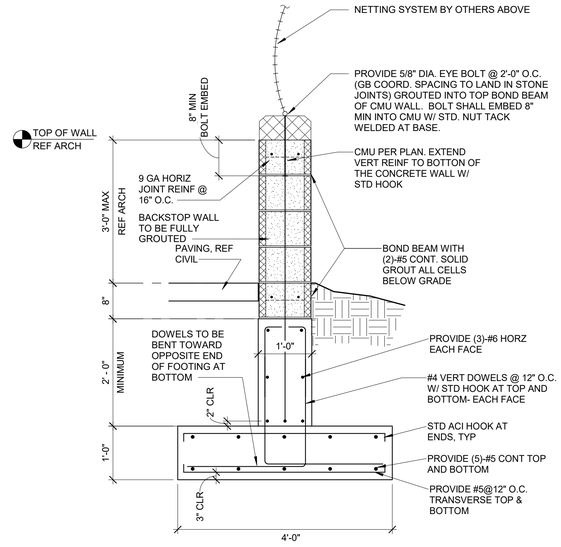
ISSUED FOR PROPOSAL

PIER, GRADE BEAM SCHEDULE AND TYPICAL FOUNDATION DETAILS

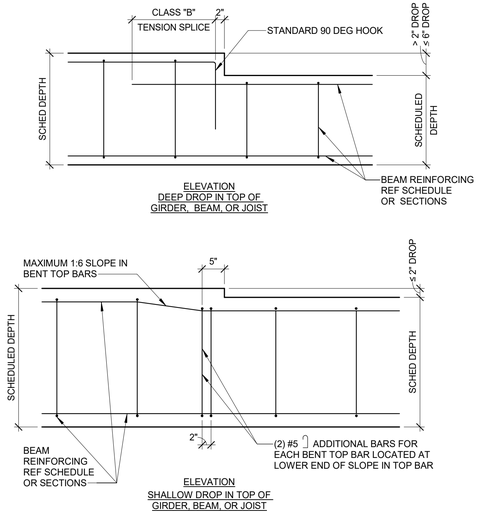
S 300

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:09:57 PM

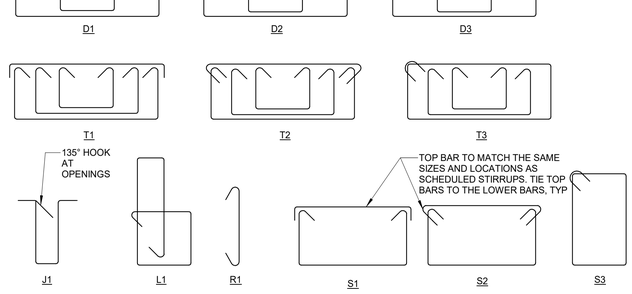
PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
PH: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



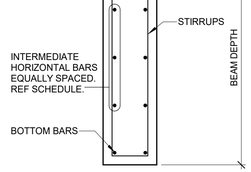
9 BACKSTOP DETAIL
3/4" = 1'-0"



8 TYPICAL DETAIL OF REINFORCING AT SLAB/BEAM STEP
3/4" = 1'-0"



6 STIRRUP TYPES AT GRADE BEAMS
3/4" = 1'-0"



INTERMEDIATE BAR SCHEDULE

BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

NOTES:
1. ALTERNATE LAP SPLICE INTERMEDIATE BARS BETWEEN SUPPORT AND MIDSPAN. PROVIDE STANDARD ACI HOOK AT DISCONTINUOUS ENDS.
2. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE.
3. WHERE "EXTRA INTERMEDIATE BARS" ARE SCHEDULED, PROVIDE SCHEDULED BARS IN LIEU OF THOSE REQUIRED BY THIS DETAIL.

5 TYPICAL INTERMEDIATE BAR SCHEDULE
3/4" = 1'-0"

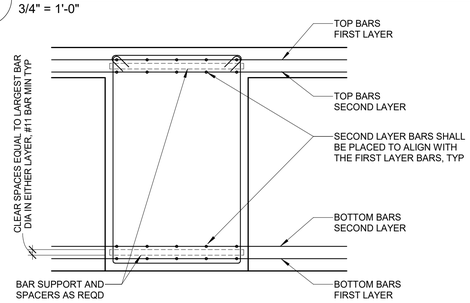
STEEL REINF CLASS B TENSION LAP SPLICE SCHEDULE L_{st}

	3000 PSI CONC		4000 PSI CONC		5000 PSI CONC		6000 PSI CONC		7000 PSI CONC		8000 PSI CONC	
	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER	TYP	OTHER
#6 AND SMALLER BARS	74db	57db	64db	50db	58db	44db	53db	41db	49db	38db	46db	35db
#7 TO #11 BARS	93db	71db	81db	62db	72db	55db	66db	51db	61db	47db	57db	44db

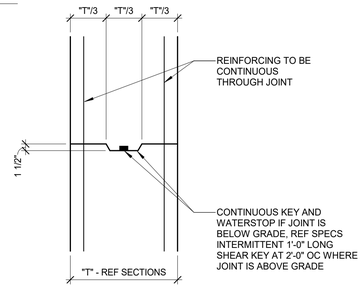
NOTES:

1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON EPOXY COATED REINFORCING.
2. TYPICAL IS FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 13".
3. FOR EPOXY COATED TYPICAL BARS, INCREASE SPLICE LENGTHS BY 31%. FOR EPOXY COATED OTHER BARS, INCREASE SPLICE LENGTHS BY 50%.
4. FOR LIGHTWEIGHT CONCRETE, INCREASE SPLICE LENGTHS BY 33%.
5. FOR GRADE 75 REBARS, INCREASE SPLICE LENGTHS BY 25%.
6. FOR #7 T0 #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, INCREASE SPLICE LENGTHS BY 50%.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFACTION FACTORS SHALL NOT BE LESS THAN 12".

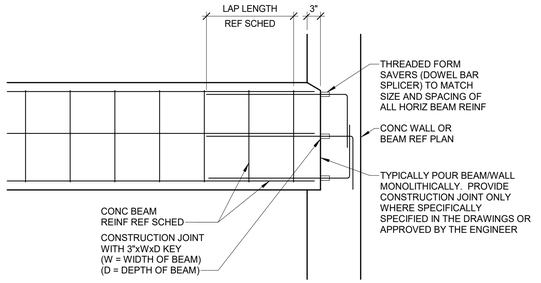
7 TYPICAL STEEL REINF CLASS B TENSION LAP SCHEDULE
3/4" = 1'-0"



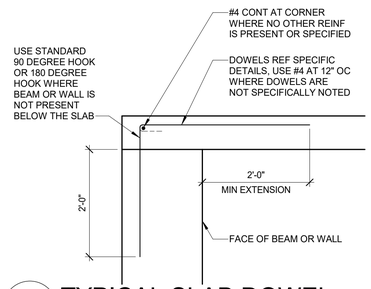
4 TYPICAL DETAIL OF MULTIPLE LAYERS OF BEAM REINFORCING
3/4" = 1'-0"



3 TYPICAL HORIZONTAL CONSTRUCTION JOINT IN WALL OR BEAM
3/4" = 1'-0"



2 CONCRETE BEAM CONNECTION TO WALL OR BEAM
3/4" = 1'-0"



1 TYPICAL SLAB DOWEL
3/4" = 1'-0"

DRAWN BY: AGLUZMAN
CHECKED BY: TCRYER

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
Friday, August 02, 2019 2:09:57 PM

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

TYPICAL FOUNDATION DETAILS

S 301

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU	
BAR SIZE	LAP SPLICE LENGTH (INCHES)
3	19
4	34
5	45
6	54
7	63
8	72
9	82

NOTES:
1. FOR GRADE 60 NON-EPOXY COATED REINFORCING.
2. FOR EPOXY COATED REINFORCING, INCREASE TABULATED LENGTHS BY 50%.

TENSION LAP SPLICE SCHEDULE FOR STEEL REINFORCING IN CMU

3 — 12" = 1'-0"

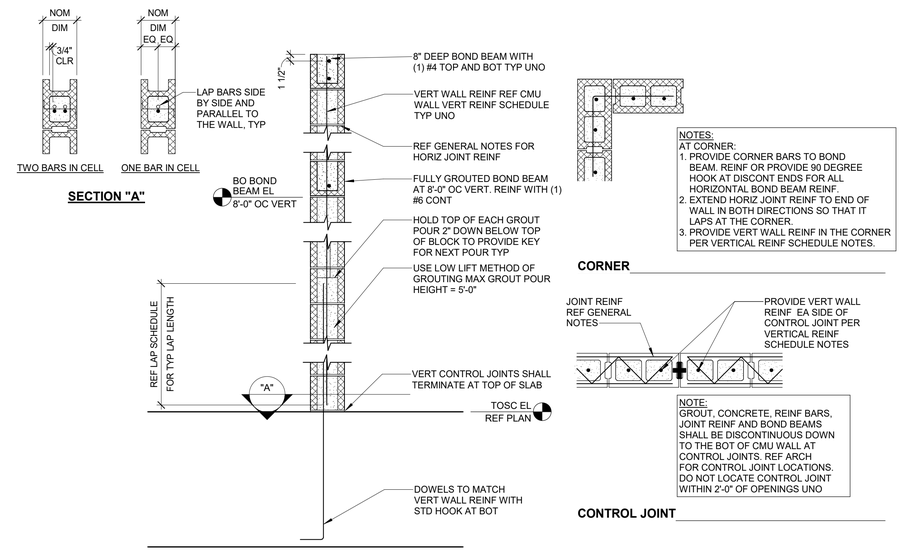
STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE

WALL DESIGNATION	MAX UNBRACED WALL HEIGHT	EXTERIOR WALL VERTICAL REINF
12" CMU	3'-0"	#6 AT 16" OC

1. THIS SCHEDULE ONLY APPLIES TO CMU WALLS SHOWN AND DESIGNATED ON THE STRUCTURAL FRAMING PLANS. CMU WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS ARE NOT PART OF THE STRUCTURAL FRAME AND ARE CONSIDERED NON-STRUCTURAL CMU.
2. REFER TO THE "NON-STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE" ON THIS SHEET FOR MINIMUM REQUIRED REINFORCING AT ARCHITECTURAL (NON STRUCTURAL) CMU WALLS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS. REFER TO "TYPICAL WALL REINFORCING DIAGRAM" FOR ADDITIONAL INFORMATION.
4. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEEN INSTALLED AND CONNECTED TO THE STEEL FRAMING.
5. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
6. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
7. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
8. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
9. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

TYPICAL STRUCTURAL CMU WALL VERTICAL REINFORCING SCHEDULE

1A — 3/4" = 1'-0"



TYPICAL CMU WALL REINFORCING DIAGRAM

1 — 3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS
805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD
PROJECT NUMBER
19141SP
DATE 08/07/2019
REVISIONS

No.	Description	Date

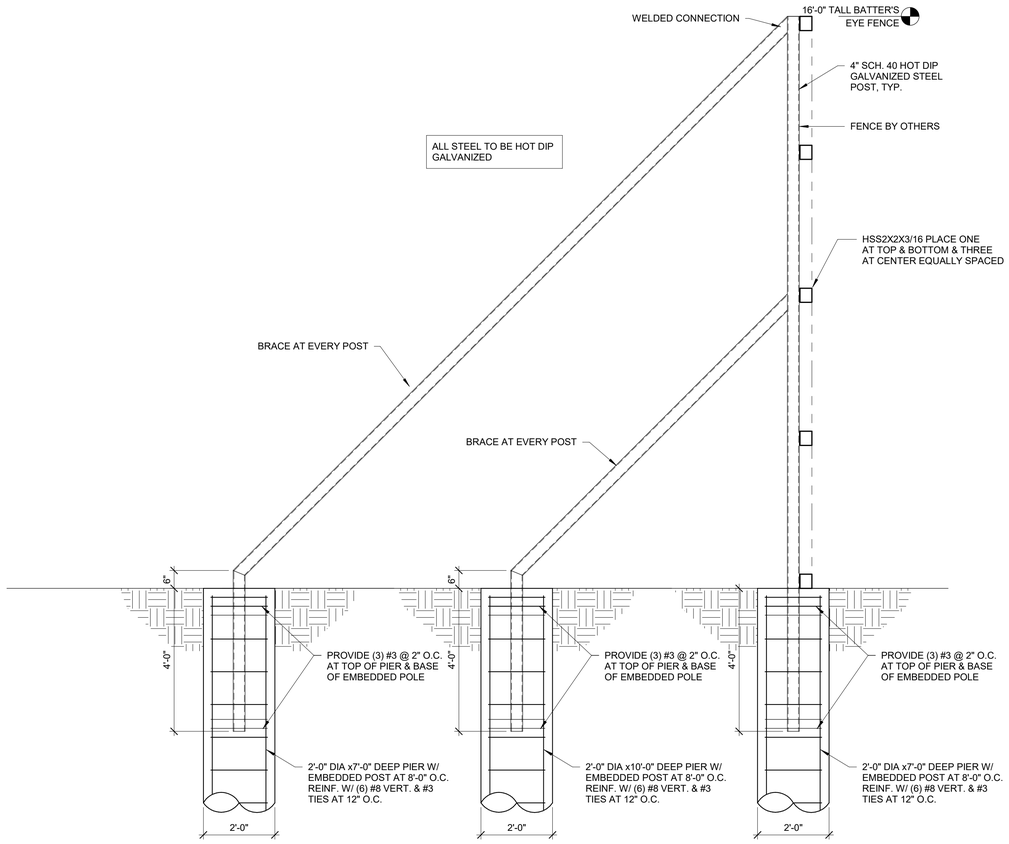
ISSUED FOR PROPOSAL

TYPICAL CMU DETAILS AND SCHEDULES

S 400

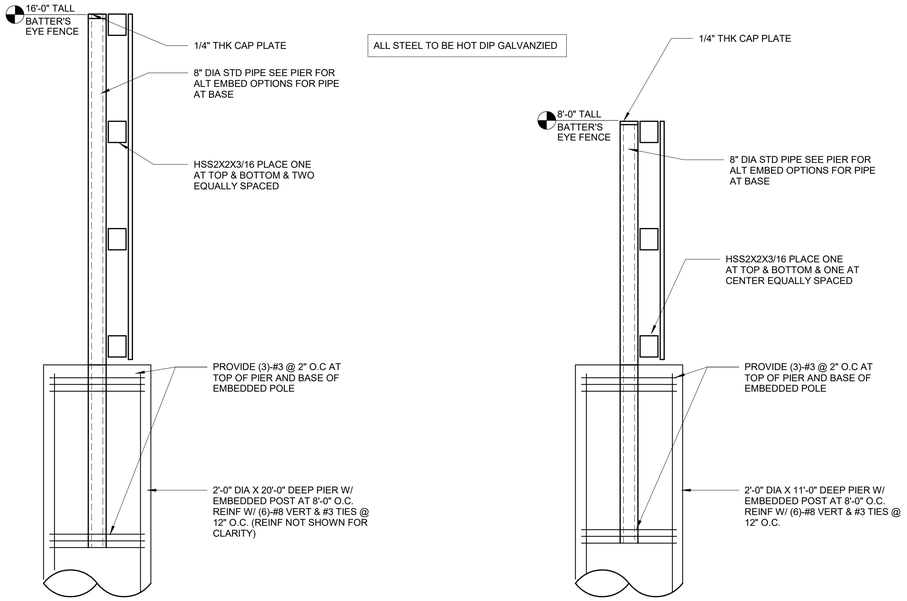
Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO
CHECKED BY: TCRYER
DRAWN BY: AGLUZMAN
Friday, August 02, 2019 2:09:57 PM

PROJECT # 19XXX.00000
9 Greenway Plaza, Suite 2025
Houston, Texas 77046
Ph: 713.595.9935
www.age-se.com
TX. REG. NO. F-8435
Structural Engenuity



4 16FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"

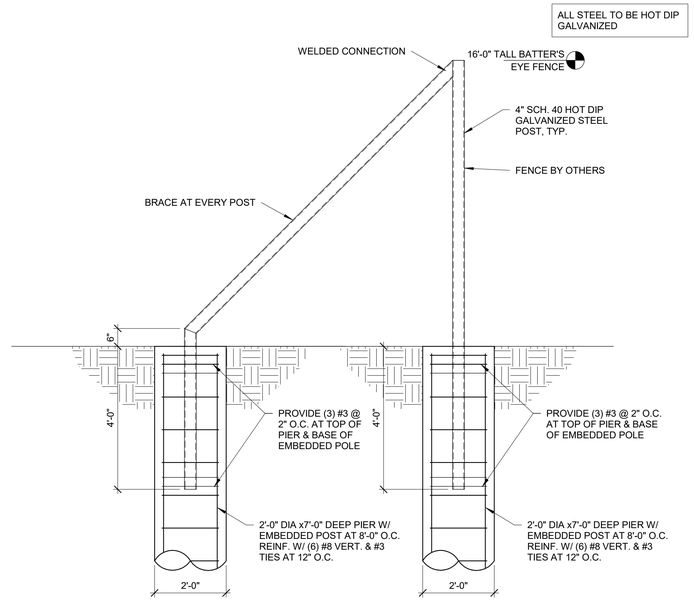


16 FEET TALL FENCE DETAIL

8 FEET TALL FENCE DETAIL

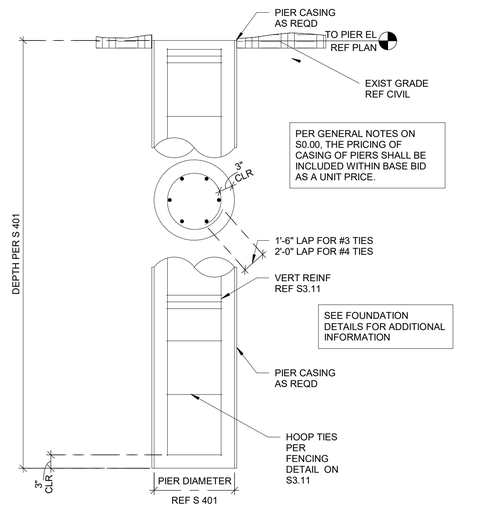
2 TYPICAL FENCING ELEVATION

3/4" = 1'-0"



3 8FT TALL FENCE POST ELEVATION - ALTERNATE

1/2" = 1'-0"



1 FENCING STRAIGHT SHAFT DETAIL

3/4" = 1'-0"

PBK Sports

PHARR-SAN JUAN-ALAMO ISD
SYNTHETIC TURF SOFTBALL FIELD
PSJA ECHS

805 W. RIDGE ROAD
SAN JUAN, TX 78589

ISSUE FOR PROPOSALS
PROPOSAL #18-19-057

PSJA BEARS

Architect

Architect

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
08/07/2019
AG&E Structural Engenuity
F-8435

CLIENT
PSJA ISD

PROJECT NUMBER
19141SP

DATE 08/07/2019

REVISIONS

No.	Description	Date

ISSUED FOR PROPOSAL

FOUNDATION DETAILS AND ELEVATIONS

S 401

Z:\19000-19999\19000.00000-Unassigned Projects\19XXX.00000-PSJA ISD Baseball & Softball Improvements_Alamo_TX\11 - Consultants\Arch\2019-08-01 - Backgrounds and PDFs\PSJA High School\CS-PSJA HS TLBLK.dwg Last Saved: ESCARFO

DRAWN BY: AGLUZMAN

CHECKED BY: TCRYER

Friday, August 02, 2019 2:09:57 PM