

BRIGHTON AREA SCHOOLS

2019 BOND PROJECT

HAWKINS ELEMENTARY ATHLETIC FIELDS



HAWKINS ELEMENTARY
8900 LEE ROAD
BRIGHTON, MI 48116

ISSUED FOR CONSTRUCTION 5-26-20

Prepared By:



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IDI PROJECT NO. 18-785

MECHANICAL SYMBOL LEGEND

CODE SUMMARY

CONDENSATE OR EQUIPMENT DRAIN		D	STORM SEWER LINES	
CONDENSER SUPPLY		CS	SANITARY VENT	
CONDENSER RETURN		CR	COLD WATER	
REFRIGERANT LIQUID		RL	HOT WATER	
REFRIGERANT SUCTION		RS	HOT WATER CIRCULATING	
LOW PRESSURE STEAM SUPPLY			HOT WATER SUPPLY	
LOW PRESSURE STEAM RETURN			HOT WATER RETURN	
MEDIUM PRESSURE STEAM SUPPLY			CHILLED WATER SUPPLY	
MEDIUM PRESSURE STEAM RETURN			CHILLED WATER RETURN	
HIGH PRESSURE STEAM SUPPLY			FIRE SPRINKLER LINE	
HIGH PRESSURE STEAM RETURN			EXPANSION TANK LINE	
INDICATION OF FLOW DIRECTION			GAS	
INDICATES PITCH DOWN			COMPRESSED AIR	
PIPE ANCHORS			SANITARY SEWER LINES	
PIPE GUIDES				
BUTTERFLY VALVE			UNDERCUT DOOR 1"	
GLOBE VALVE			AUTOMATIC AIR VENT	
GATE VALVE			GRILL, REGISTER, DIFFUSER	
BALE VALVE			PLUMBER RISER DIAGRAM	
CHECK VALVE			RADIATION	
PLUG VALVE			MANUAL AIR VENT	
TEMPERATURE / TEMP. SENSOR			FLEXIBLE PIPE CONNECTOR	
HUMIDISTAT / HUMIDITY SENSOR			HOSE END VALVE	
1-HR FIRE DAMPER			BALANCING COCK	
2-HR FIRE DAMPER			AUTOMATIC CONTROL VALVE	
PRESSURE GAGE			3-WAY CONTROL VALVE	
THERMOMETER			STRAINER W/ BLOW-OFF VALVE	
DOOR GRILLE			WALL HYDRANT	
UNION				
PRESSURE REDUCING VALVE				
SAFETY RELIEF VALVE				

BUILDING SECTION/WALL SECTION

ELECTRICAL SYMBOL LEGEND

IGHT FIXTURES - NUMBER INDICATES CIRCUIT, LOWER CASE LETTER INDICATES SWITCH LEG, UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE FIXTURE SCHEDULE. DARKENED SYMBOL INDICATES NIGHT LIGHT.

CODES

<input checked="" type="checkbox"/> 2015 MICHIGAN BUILDING CODE	<input type="checkbox"/> FIRE MARSHALL RULES
<input checked="" type="checkbox"/> STATE OF MICHIGAN BARRIER FREE ACCESS DESIGN RULES (2009 ICC/ANSI A117.1)	<input type="checkbox"/> MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION CODE COMMISSION GENERAL RULES
<input checked="" type="checkbox"/> NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)	<input checked="" type="checkbox"/> 2015 MICHIGAN MECHANICAL CODE
<input checked="" type="checkbox"/> 2015 MICHIGAN PLUMBING CODE	<input checked="" type="checkbox"/> MICHIGAN UNIFORM ENERGY CODE
<input checked="" type="checkbox"/> NATIONAL ELECTRICAL SAFETY CODE	<input type="checkbox"/> 2017 NATIONAL ELECTRIC CODE (NEC)

☒ CODES APPLICABLE TO PROJECT

CODES FIRE RESISTIVE ANALYSIS

1. CLASSIFICATIONS		2. CONSTRUCTION PROTECTION	
STORIES	---	INTERIOR NON-BEARING PARTITIONS	0
OCCUPANCY TYPE	---	STRUCTURAL FRAME	0
CONSTRUCTION TYPE	---	EXTERIOR NON-BEARING WALLS	0
SPRINKLER SYSTEM	---	ROOF	0

COVER

INDEX

EXISTING CONDITIONS SURVEY (DESINE INC.

CIVIL

NOTES

OVERALL FLAT
DEMOLITION B

DEMOLITION PLAN - SOUTH

SITE PLAN - NORTH

GRADING PLAN -

GRADING PLAN -

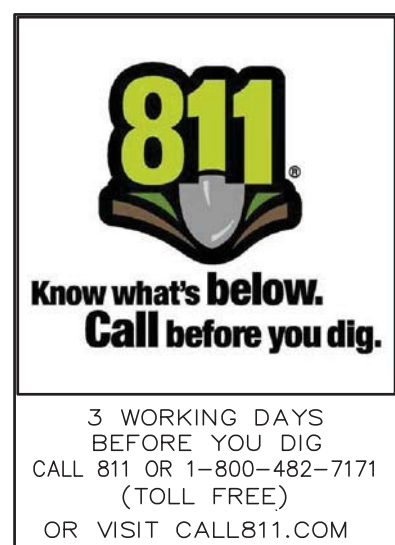
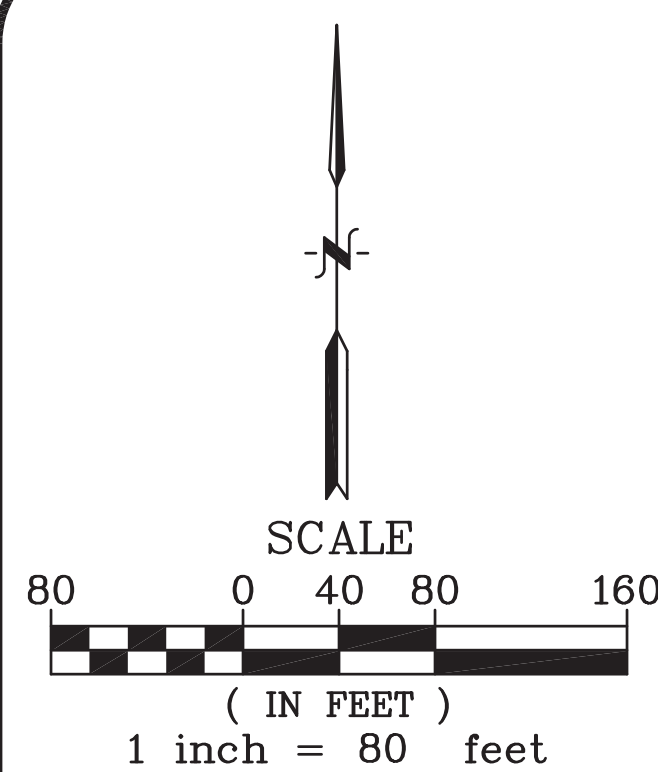
SITE DETAILS

SITE DETAILS

300 FT FIELD

230 FT FIELD

INDEX			
BY	DATE	NO. REVISIONS	DATE
DESIGN	-	-	5-11-20
DRAWN	-	0	5-11-20
CHECKED	-	-	5-56-20
APPROVED	-	-	-



No.	DESCRIPTION
1	PINE 15"
2	CEDAR 18"
3	PINE 30"
4	PINE 20"
5	CEDAR 20"
6	CEDAR 20"
7	WILLOW 18" TWIN
8	CEDAR 18"
9	CEDAR 18"
10	PINE 23"
11	PINE 23"
12	OAK 50"
13	PINE 18"
14	PINE 18"

No.	DESCRIPTION
15	PINE 24"
16	PINE 15"
17	PINE 20"
18	PINE 28"
19	PINE 24"
20	PINE 24"
21	PINE 24"
22	PINE 18"
23	PINE 18"
24	OAK 10"
25	PINE 30"
26	PINE 16" TWIN
27	HL 28" TWIN
28	MAPLE 4"

No.	DESCRIPTION
29	MAPLE 4"
30	PINE 5"
31	MAPLE 4"
32	MAPLE 4"
33	MAPLE 4"
34	MAPLE 4"
35	PINE 18"
36	PINE 18"
37	PINE 22"
38	PINE 18"
39	PINE 18"
40	PINE 18"
41	OAK 50"
42	PINE 18"

INVERTS

YARD BASIN #1
WESTERLY RIM 899.91
INVERTS
NORTHEASTERLY 18" CPP 896.36
NORTHWESTERLY 12" CPP 897.06
SOUTHWESTERLY 18" CPP 896.36
NOTE: HAS CENTRAL LEACHING HOLE IN
BOTTOM OF STRUCTURE

SANITARY MANHOLE #2
NORTHERLY RIM 900.69
INVERTS
NORTHEASTERLY 6" V.C. 898.39
SOUTHEASTERLY 6" V.C. 898.34
SOUTHWESTERLY 4" PVC 898.59

STORM MANHOLE #3
NORTHERLY RIM 901.44
INVERTS
NORTHEASTERLY 18" CPP 894.74
SOUTHEASTERLY 30" CPP 893.99
WESTERLY 24" CPP ± 894.29

CATCH BASIN #4
NORTHERLY RIM 902.83
INVERTS
EASTERLY 24" CPP 894.88
NORTHWESTERLY 24" CPP 894.88

YARD BASIN #5
NORTHERLY RIM 902.25
INVERTS
NORTHEASTERLY 24" CPP 895.25
SOUTHEASTERLY 24" CPP 895.25

YARD BASIN #6
NORTHERLY RIM 904.90
INVERTS
SOUTHERLY 18" CPP 896.50
SOUTHEASTERLY 24" CPP 894.57
NOTE: HAS CENTRAL LEACHING HOLE IN
BOTTOM OF STRUCTURE

YARD BASIN #7
NORTHERLY RIM 902.50
INVERTS
SOUTHERLY 18" CPP 897.60
NORTHERLY 15" CPP 897.90
NORTHEASTERLY 12" CPP 898.10
SOUTHEASTERLY 12" CPP 898.60

YARD BASIN #8
WESTERLY RIM 902.61
INVERTS
NOTE: FILLED WITH SILT & WATER
INVERT NOT AVAILABLE

STORM MANHOLE #9
SOUTHERLY RIM 903.14
INVERTS
NORTHERLY 8" SDR 899.84
EASTERLY 6" PVC 900.49
WESTERLY 12" CPP NOT AVAILABLE
FILLED WITH SILT & WATER

CATCH BASIN #10
SOUTHWESTERLY RIM 903.70
INVERTS
WESTERLY 6" CPP 900.50
EASTERLY 12" CPP 900.15

STORM MANHOLE #11
WESTERLY RIM 903.92
INVERTS
E-SOUTHEASTERLY 4" CPP ± 900.72
NORTHERLY 8" CPP 900.74
SOUTHERLY 8" CPP 900.57

YARD BASIN #12
WESTERLY RIM 902.79
INVERTS
SOUTHWESTERLY 12" CPP 898.49
NORTHEASTERLY 12" CPP 898.59
SOUTHWESTERLY 4" CPP ± 899.49

CATCH BASIN #13
NORTHERLY 903.86
INVERTS
SOUTHWESTERLY 12" CPP 899.64

YARD BASIN #14
SOUTHERLY RIM 903.99
INVERTS
SOUTHERLY 15" CPP 898.44
NORTHERLY 8" CPP 898.39
WESTERLY 12" CPP ± 900.89

CATCH BASIN #15
ROAD SIDE RIM 904.01
INVERTS
SOUTHERLY 12" CPP 900.01
WESTERLY 12" CPP 900.06
NORTHWESTERLY 12" CPP 900.11
NORTHEASTERLY 12" CPP 900.21

CATCH BASIN #16
ROAD SIDE RIM 904.03
INVERTS
EASTERLY 12" CPP 900.63

LEGEND

	= MISC. STRUCTURE (AS LABELED)
	= SURVEYOR'S MONUMENTATION (AS LABELED)
	= WELL / MONITOR WELL
	= BOLLARD
	= STOP SIGN / PEDESTRIAN CROSSING SIGN
	= SIGN / MONUMENT SIGN
	= CONTROL / BENCHMARK W/IDENTIFIER
	= LIGHT BASE
	= UTILITY METERS & BOXES (ELECTRIC METER, GAS METER, WATER METER, PHONE BOX, CATV BOX, MAIL BOX, UTIL. BOX)
	= AIR CONDITIONER UNIT
	= UTILITY POLE W/GUY WIRE
	= OVERHEAD UTILITY LINES (ELECTRIC/PHONE/CABLE)
	= U/G UTILITY LINES (PHONE/FIBER OPTIC/ELECTRIC/CABLE TV/MISC UTILITIES)
	= EDGE OF BRUSH LINE
	= EDGE OF WOODS / TREE DRIP LINE
	= DECIDUOUS TREE W/IDENTIFIER
	= CONIFEROUS TREE W/IDENTIFIER
	= ROCKS / ROCK RETENTION WALL
	= FENCE CHAIN LINK UNLESS OTHERWISE STATED
	= EDGE OF GRAVEL
	= CONCRETE CURB UNLESS OTHERWISE STATED
	= EDGE OF WATER
	= SANITARY SEWER MANHOLE W/IDENTIFIER
	= SANITARY SEWER PIPE
	= CLEAN OUT
	= STORM WATER MANHOLE W/IDENTIFIER
	= CATCH BASIN W/IDENTIFIER
	= CONTROL STRUCTURE
	= FLARED END SECTION
	= STORM WATER DRAINAGE PIPE
	= HYDRANT
	= WATER SHUT OFF
	= WATER GATE VALVE WELL / MANHOLE
	= WATER VALVE BOX
	= IRRIGATION CONTROL VALVE
	= WATER MAIN
	= U/G GAS
	= SPOT ELEVATION
	= 1' CONTOUR
	= 5' CONTOUR
	= PROPERTY LINE

Benchmarks:

Datum Based on Previous Topographic Survey Prepared by *Nederveld, Project No. 15500072,
Revised Date: August 19, 2015, Depicted as NAVD 88.

Benchmark #201

Top of Well Head, Located 80± West of the Westerly Most Building Corner (Hawkins School).
Elevation = 906.86 (NAVD 88)

Benchmark #202

Top of Well Head, Located 75± South of the North Parking Lot and 206± East of the West Property
Line.

Elevation = 908.72 (NAVD 88)

Benchmark #203

Nail in the West Side of an Utility Pole, Located West of Rickett Road and 280± feet North of
Southeast Property Corner.

Elevation = 901.43 (NAVD 88)

Benchmark #204

MDOT Spike in the North Side of an Utility Pole, Located 45± feet South of Building Corner
(Hawkins School) and on the South Side of Drive.

Elevation = 903.05 (NAVD 88)

Benchmark #205 (*300)

Gear Spike in the North Side of an Utility Pole, Located on the South Side of Ingress/Egress Drive
and 125± feet West of Rickett Road.

Elevation = 903.93 (NAVD 88)

Benchmark #206 (*303)

Arrow on Hydrant, Located on the South Side of Lee Road, 150± feet East of gravel Drive on Site.
Elevation = 908.80 (NAVD 88)

Benchmark #207 (*302)

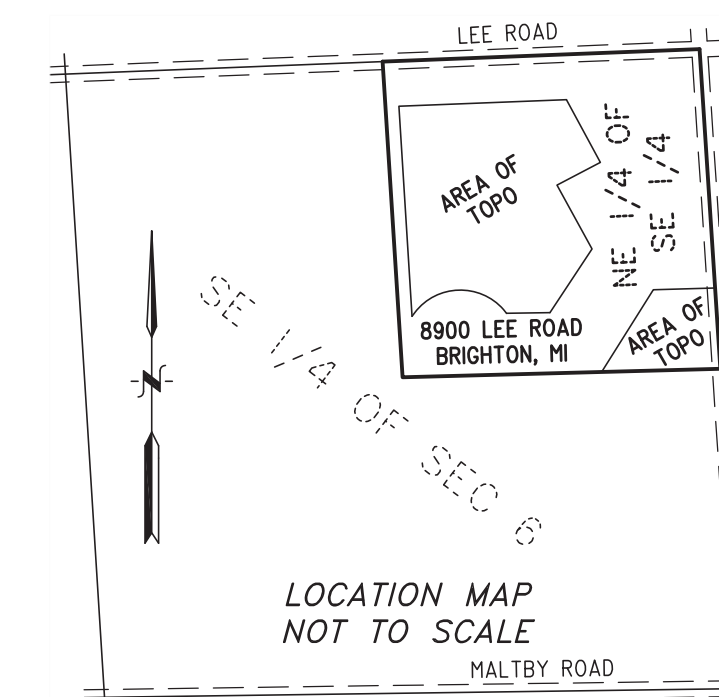
Arrow on Hydrant, Located on the South Side of Lee Road, Opposite House #8905.

Elevation = 908.89 (*908.99) (NAVD 88)

Topographical Survey

A Part of the Northeast 1/4 of Section 31
Town 2 North, Range 6 East
City of Brighton, Livingston County, Michigan

Brighton Area Schools Hawkins Elementary



LEGAL DESCRIPTION OF RECORD

Reference: Tax Roll 2020 (Livingston County Assessor's Office)

PARCEL No. 4718-06-400-002

Situated in the Township of Green Oak, County of Livingston and State of Michigan, and described
as follows:

Being the Northeast 1/4 of the Southeast 1/4 of Section 6, Town 1 North, Range 6 East, Green Oak
Township, Livingston County, Michigan.

Also known as: 8900 Lee Road, Brighton, MI 48116

NOTES:

- Horizontal control points coordinate values provided hereon are on grid North, Michigan
coordinate system of 1983, South Zone (as defined in MCL 54.235a(c)) and have been
obtained by GPS RTK observations. The NOAA/NGS published point (designated as AJ5553
(Brighton CORS)) has been used for locations determination. To convert from grid to ground
coordinates apply Combined Scale Factor of 1.00012.
- Elevations displayed hereon are related to North American Vertical Datum of 1988 and have
been obtained from previous Topographic Survey prepared by *Nederveld, Project
No. 15500072, Revised Date: August 19, 2015, Depicted as NAVD 88.
- Parcel legal description has been obtained from available public records. Surveyor was not
supplied with a Title Search at this time. Refer to the current policy for title insurance for proof
of ownership and all encumbrances affecting title to the surveyed parcel. Parcel boundary
lines depicted hereon are for informational purposes only; no boundary survey has been
performed.
- The locations of underground utility lines are based on field observations of the above ground
structures, record drawings* and markings left by various utility companies. Actual locations of
underground utilities/structures may vary from locations shown hereon. Additional buried
utilities/structures may be encountered. No warranty is extended thereof as to accuracy and
completeness of said underground utility lines.

*Record Drawings by others:

- Mappings requested by the surveyor pursuant to an
811 MissDig DESIGN Ticket Program, Ticket No. B000420683-00B:

AT & T Responded with Mapping

Consumers Energy Responded with Mapping

Charter Communications Responded with Mapping

Comcast Responded with Mapping

Detroit Edison (DTE) Responded with Mapping

Livingston Community Water Authority Responded with Mapping

Green Oak Township Responded with Mapping

- Site / Topographic Plans prepared by Nederveld, Project No. 15500072,

Revised Date: August 19, 2015

- Site Plans prepared by Lindhout Associates, Project No. 5500072,

Revised Date: October 9, 2015

- Property lies within Flood Zone X of Flood Hazard Area, as depicted on Flood Insurance
Rate Map issued by Federal Emergency Management Agency, Map No. 26093C03450D,
Effective date: September 17, 2008.



(810) 227-9533
CIVIL ENGINEERS
LAND SURVEYORS
2183 PLESS DRIVE
BRIGHTON, MICHIGAN 48114

CLIENT:

Brighton Area Schools
125 S. Church Street
Brighton, Michigan 48116

REVISED	SCALE: 1" = 80'
	PROJECT No.: 1-09-31-203841
	DWG Name: 203841-HWKNS
	SHEET No.: 1 OF 1
DATE:	03/13/20

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2012 EDITION AND SUPPLEMENTAL SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING.
- THE CONTRACTOR SHALL BE REQUIRED TO RESTORE ALL EXISTING TURF AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT OR AS SPECIFIED. TURF AREAS SHALL MATCH ADJACENT GRADES IN ADDITION TO GRADES SPECIFIED. TURF RESTORATION CONSISTS OF: SCREENED TOPSOIL SURFACE, 6 INCH; CHEMICAL FERTILIZER NUTRIENT, IF REQUIRED; MDOT SEED MIXTURE TDS; STRAW MULCH BLANKETS AND MULCH ANCHORING. THE CONTRACTOR SHALL BE REQUIRED TO WATER TURF AREAS TO PROMOTE HEALTHY GROWTH UNTIL THE FIRST CUTTING. AT THAT TIME THE OWNER SHALL TAKE ALL RESPONSIBILITY FOR MAINTENANCE. R-95-F
- THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY AND ALL AREAS DISTURBED OR DAMAGED OUTSIDE OF THE OWNERS PROPERTY, AS A RESULT OF THE CONTRACTORS OPERATIONS, AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS AND ORDINANCES FOR WORK AT THE SITE. THIS SHALL INCLUDE ALL M.I.O.S.H.A. REGULATIONS.
- THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM FOR DUST CONTROL AND SHALL ALLOW NO ONSITE BURNING, WITHOUT PRIOR APPROVAL FROM THE OWNER, ENGINEER AND THE LOCAL FIRE DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FEES AND OBTAINING ANY REQUIRED PERMITS FOR WORKING WITHIN THE RIGHT-OF-WAY INCLUDING SEWER TAPS, OFF STREET PARKING, SIDEWALK AND/OR ROAD CLOSURES, SIDEWALK AND CURB REPLACEMENT, ETC. THE CONTRACTOR SHALL PROVIDE THE LOCAL MUNICIPALITY WITH ANY ROAD CLOSURE AND DETOUR PLAN, IF REQUIRED, PRIOR TO PROCEEDING WITH WORK. CONTACT LOCAL MUNICIPALITY FOR REQUIREMENTS BEFORE PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT FOR THIS PROJECT. THE CONTRACTOR SHALL PROTECT OR PLACE NEW BENCHMARKS AND/OR CONTROL POINTS, AS REQUIRED. AN ELECTRONIC COPY OF THE AUTOCAD ".DWG" FILE SHALL BE PROVIDED TO THE CONTRACTOR OR THEIR SURVEYOR.
- ANY PROPERTY IRONS DAMAGED OR REMOVED BY THE CONTRACTORS OPERATIONS, SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF MICHIGAN AT NO COST TO THE PROJECT.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THEIR WORK WITH THE BUILDING CONTRACTORS OR UTILITY COMPANIES' WORK AT NO ADDITIONAL COST TO THE PROJECT.
- SITE CLEARING SHALL INCLUDE SURFACE DEBRIS, REMOVING ABOVE AND BELOW GROUND IMPROVEMENTS, ROCKS, DESIGNATED TREES, SHRUBS AND OTHER VEGETATION AND ABANDONED UTILITIES AS NECESSARY TO PERFORM THE WORK IN THE CONTRACT. ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS, BENCHMARKS AND/OR EXISTING STRUCTURES TO REMAIN FROM DAMAGE OR DISPLACEMENT.
- TREES IN THE INFLUENCE OF THE PROPOSED NEW WORK SHALL BE REMOVED. TREE REMOVAL SHALL INCLUDE COMPLETE REMOVAL OF THE STUMP AND INCLUDE REMOVAL OF ANY ROOTS WHICH ARE LOCATED WITHIN THE INFLUENCE OF THE SUBBASE EXCAVATION, BUILDING CONSTRUCTION AND UTILITY TRENCH EXCAVATION. WHEN EXCAVATING THROUGH ROOTS, PERFORM WORK BY HAND AND CUT ROOTS WITH A SHARP AXE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF REMOVED, SURPLUS AND/OR WASTE MATERIAL FROM THE SITE. ALL TRANSPORTATION AND DISPOSAL OF THE REMOVED ITEMS SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATION AND ALL LOCAL, STATE AND FEDERAL LAWS.
- SAW CUT EXISTING PAVEMENT TO FULL DEPTH PRIOR TO REMOVAL. WHERE SAW CUT IS REQUIRED IN CONCRETE SLABS AND/OR CURB & GUTTER, SAW CUT FULL DEPTH AT THE NEAREST JOINT. IF A SAWCUT EDGE BECOMES DAMAGED PRIOR TO THE INSTALLATION OF NEW WORK, THE EDGE SHALL BE RECUT, AS DIRECTED BY THE ENGINEER, AND THE PAVEMENT REPLACED AT NO ADDITION COST TO THE PROJECT.

TRAFFIC CONTROL AND MAINTENANCE

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION AND ALL CURRENT MDOT STANDARD PLANS, AS REQUIRED. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MAINTENANCE PLAN TO THE ENGINEER FOR APPROVAL, 10 DAYS PRIOR TO BEGINNING WORK.
- ALL SIGNS, BARRICADES, WARNING LIGHTS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MMUTCD. SIGNING FOR STREET CLOSURES SHALL BE IN ACCORDANCE WITH THE MMUTCD. ANY SIGNS TEMPORARILY REMOVED DUE TO CONSTRUCTION ACTIVITIES, SHALL BE TEMPORARILY RELOCATED, AS DIRECTED BY THE ENGINEER, UNTIL FINAL RESTORATION IS COMPLETED AND THEN RETURNED TO THEIR ORIGINAL LOCATION.
- DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PLACE THE PROPER CONSTRUCTION SIGNING IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND ALL CURRENT MDOT STANDARD PLANS, AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE THE LOCAL MUNICIPALITY WITH ANY ROAD CLOSURE AND DETOUR PLAN, IF REQUIRED, PRIOR TO PROCEEDING WITH WORK. CONTACT LOCAL MUNICIPALITY FOR REQUIREMENTS BEFORE PROCEEDING WITH WORK.

UTILITY NOTES

- UTILITIES AND UTILITY SERVICE INFORMATION, SHOWN ON THE PLANS, ARE BASED ON UTILITY STAKING AND IS FOR INFORMATION ONLY. AS ACTUAL LOCATIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY LOCATIONS BEFORE PROCEEDING WITH WORK.
- FOR THE PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" BY PHONE AT 811 OR 800-482-7171 OR VIA THE WEB AT EITHER ELOCATE.MISSDIG.ORG FOR SINGLE ADDRESS OR RTE.MISSDIG.ORG, A MINIMUM OF 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) IN ADVANCE OF ANY EXCAVATION.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL OF THEIR WORK WITH THE UTILITY COMPANIES WORK, IF ANY, AT NO ADDITIONAL COST TO THE PROJECT.
- COSTS AND FEES CHARGED BY THE UTILITY COMPANIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE MADE A PART OF THE CONTRACT.
- DAMAGE TO EXISTING UTILITIES, OUTSIDE THE SCOPE OF WORK SHOWN ON THE PLANS, IS THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIR, AS SUCH, SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.
- IN CASES WHERE EXISTING SEWERS, DRAINS, GAS SERVICE CONNECTIONS, TELEPHONE OR ELECTRICAL FACILITIES, WATER SERVICE CONNECTIONS, ETC. ARE ENCOUNTERED, THE CONTRACTOR SHALL PERFORM THEIR WORK IN SUCH A MANNER THAT THE SERVICE WILL BE UNINTERRUPTED. THE CONTRACTORS METHOD FOR MAINTAINING AND SUPPORTING THE EXISTING UTILITIES AND THEIR SERVICE CONNECTIONS, IF REQUIRED, SHALL BE AS SUCH TO AVOID SETTLEMENT OF THE UTILITIES BEFORE AND AFTER PLACING BACKFILL.
- STORM SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF BRIGHTON STANDARD SPECIFICATION FOR STORM WATER COLLECTION SYSTEMS.
- SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF BRIGHTON STANDARD SPECIFICATION FOR SANITARY SEWER COLLECTION SYSTEMS.
- SEE ELECTRICAL, MECHANICAL AND PLUMBING PLANS FOR EXACT CONNECTIONS TO PROPOSED BUILDING UTILITIES.
- UTILITY DISINFECTION AND ALL OTHER TESTING AS REQUIRED BY THE GOVERNING CODE IS THE RESPONSIBILITY OF THE CONTRACTOR.



EROSION CONTROL NOTES

- APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL ALL AREAS ARE FULLY RESTORED.
- ALL SOIL EROSION & SEDIMENT CONTROL (SESC) MEASURES PLACED BY THE CONTRACTOR SHALL BE IN FULL COMPLIANCE WITH PUBLIC ACT 347 OF 1972 AS AMENDED AND THE ADMINISTRATIVE RULES. THE CONTRACTOR SHALL HAVE A DEC CERTIFIED STORM WATER OPERATOR ASSIGNED TO THIS PROJECT.
- A TRACKING PAD IS REQUIRED AT ANY CONTRACTOR INGRESS AND/OR EGRESS LOCATION WHERE SEDIMENT MAY BE TRACKED OFF-SITE. THE CONTRACTOR IS REQUIRED TO CLEAN ADJACENT STREETS OF ACCUMULATED SEDIMENT AS A RESULT OF THE CONTRACTORS ACTIVITY, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE PROJECT.
- INSTALL SEDIMENT CONTROL, INLET PROTECTION, FABRIC DROP (S58) AT EXISTING AND NEWLY CONSTRUCTED CATCH BASINS. AFTER RAIN EVENTS AND AT THE COMPLETION OF THE PROJECT, REMOVE AND CLEAN ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS.
- AT THE COMPLETION OF THE PROJECT, ONCE ALL DISTURBED AREAS HAVE BEEN FULLY RESTORED, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND ANY ACCUMULATED SEDIMENT.
- THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF THE SITE HAS BEEN ESTABLISHED.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.

MICHIGAN UNIFIED KEYING SYSTEM SOIL EROSION AND SEDIMENTATION CONTROL

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
SEDIMENT CONTROLS			
E2	GRUBBING OMITTED		FOR USE ON STEEP SLOPES TO PREVENT RILLING, GULLYING AND REDUCE SHEET FLOW VELOCITY OR WHERE CLEAR VISION CORRIDORS ARE NECESSARY.
E5	DUST CONTROL		FOR USE ON CONSTRUCTION SITES, UNPAVED ROADS, ETC. TO REDUCE DUST AND SEDIMENTATION FROM WIND AND CONSTRUCTION ACTIVITIES.
E6	MULCH		FOR USE ON IN AREAS SUBJECT TO EROSION SURFACE FLOWS OR SEVERE WIND OR ON NEWLY SEEDED AREAS.
E7	TEMPORARY SEEDING		STABILIZATION METHOD UTILIZED ON CONSTRUCTION SITES WHERE EARTH CHANGE HAS BEEN INITIATED BUT NOT COMPLETED WITHIN A 2 WEEK PERIOD.
E8	PERMANENT SEEDING		STABILIZATION METHOD UTILIZED ON SITES WHERE EARTH CHANGE HAS BEEN COMPLETED (FINAL GRADING ATTAINED).
E9	MULCH BLANKETS		ON EXPOSED SLOPES, NEWLY SEEDED AREAS, NEW DITCH BOTTOMS OR AREAS SUBJECT TO EROSION.
E10	SODDING		ON AREAS AND SLOPES WHERE IMMEDIATE STABILIZATION IS REQUIRED.
E12	RIPRAP		USE ALONG SHORELINES, WATERWAYS, OR WHERE CONCENTRATED FLOWS OCCUR. SLOWS VELOCITY, REDUCES SEDIMENT LOAD, AND REDUCES EROSION.
EROSION CONTROLS			
S31	CHECK DAM		USED TO REDUCE SURFACE FLOW VELOCITIES WITHIN CONSTRUCTED AND EXISTING FLOW CORRIDORS.
S51	SILT FENCE		USED ADJACENT TO CRITICAL AREAS, TO PREVENT SEDIMENT LADEN SHEET FLOW FROM ENTERING THESE AREAS.
S53	STABILIZED CONSTRUCTION ENTRANCE		USED AT EVERY POINT WHERE CONSTRUCT TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE.
S55	SEDIMENT BASIN		AT THE OUTLET OF DISTURBED AREAS AND AT THE LOCATION OF A PERMANENT DETENTION BASIN.
S56	SEDIMENT TRAP		IN SMALL DRAINAGE AREAS, ALONG CONSTRUCTION SITE PERIMETERS AND ABOVE CHECK DAMS OR DRAIN INLETS.
S57	VEGETATED BUFFER/ FILTER STRIP		USE ALONG SHORELINES, WATERWAYS, OR OTHER SENSITIVE AREAS. SLOWS VELOCITY, REDUCES SEDIMENT LOAD, AND REDUCES EROSION IN AREAS OF SHEET FLOW.
S58	INLET PROTECTION FABRIC DROP		USE AT STORM WATER INLETS, ESPECIALLY AT CONSTRUCTION SITES.
S61	TURBIDITY CURTAIN		USED DURING CONSTRUCTION ADJACENT TO A WATER RESOURCE, TO CONTAIN SEDIMENT WITHIN THE WORK AREA WHEN OTHER BMP'S CANNOT BE USED.

PROPOSED SITE WORK

- CONCRETE FOR SIDEWALKS, DUMPSTER PADS, CURB & GUTTER, ETC. SHALL MEET EITHER MDOT GRADE P1 OR S2 SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
- AGGREGATE BASE MATERIAL SHALL MEET MDOT 21AA SPECIFICATIONS AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY, ACCORDING TO THE SPECIFICATIONS.
- SUBBASE AND EMBANKMENT MATERIAL SHALL MEET MDOT CLASS II SPECIFICATIONS AND SHALL BE COMPACTED TO 95% MAXIMUM DENSITY, ACCORDING TO THE SPECIFICATIONS.
- PLACE 3/4" EXPANSION JOINT BETWEEN SIDEWALKS AND ANY STRUCTURE. CUT CONTROL JOINTS AT 5' O.C. AND PLACE EXPANSION JOINTS AT 20' O.C. OR AS DIRECTED BY THE ENGINEER.
- PLACE 1" FIBER JOINT AT 400' MAXIMUM INTERVAL IN CURB AND GUTTER. PLACE 3/4" EXPANSION JOINT BETWEEN CURB AND GUTTER AND CATCH BASINS. PLACE CONTRACTION JOINTS AT 40' MAXIMUM INTERVALS.
- AREAS OF UNSTABLE SUBBASE NOT MEETING COMPACTION REQUIREMENTS, SHALL BE UNDERCUT AND BACKFILLED, IN ACCORDANCE WITH MDOT SUBGRADE UNDERCUTTING, TYPE II. THIS WORK SHALL BE MEASURED BY THE CUBIC YARD (CYD) AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "SUBGRADE UNDERCUTTING".
- CURB AND GUTTER RADII ARE DIMENSIONED FROM THE FRONT EDGE OF THE GUTTER PAN.

GRADING

- FINAL GRADING SHALL PROVIDE POSITIVE DRAINAGE ACROSS THE ENTIRE SITE AWAY FROM BUILDINGS.
- THE CONTRACTOR SHALL GRADE THE SITE ACCORDING TO THE GRADING PLAN. IN THE ABSENCE OF A PLAN, THE CONTRACTOR IS TO GRADE THE SITE SO THAT THE NEW GRADES BLEND GENTLY INTO THE EXISTING GRADES. CONTRACTOR TO SLOPE GRADE AWAY FROM BUILDINGS A MINIMUM OF 2 INCHES IN 10 FEET.
- MAINTAIN OPTIMUM MOISTURE CONTENT OF MATERIALS WHEN GRADING.

NOTES APPLYING TO STANDARD PLANS & SPECIAL DETAILS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD PLAN LISTED BELOW, UNLESS NOTED OTHERWISE. COPIES OF THESE MDOT STANDARD PLANS CAN BE OBTAINED FROM THE MDOT WEBSITE (WWW.MICHIGAN.GOV/MDOT).

ROAD STANDARD PLANS:

- R-29-I DRIVEWAY OPENINGS & APPROACHES AND CURB AND GUTTER
- R-30-G CONCRETE CURB AND CONCRETE CURB & GUTTER
- R-37-B ISOLATION JOINT DETAILS
- R-74-D BUMPER & PARKING RAILS AND MISC. WOOD POSTS
- R-80-E GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS
- R-82-D BEDDING AND FILLING AROUND PIPE CULVERTS
- R-83-C UTILITY TRENCHES
- R-95-F CULVERT SLOPED END SECTION
- R-96-E SOIL EROSION & SEDIMENTATION CONTROL MEASURES
- R-100-H SEEDING AND TREE PLANTING
- R-107-H SUPERELEVATION AND PAVEMENT CROWNS

ROAD SPECIAL DETAILS:

- R-1-G DRAINAGE STRUCTURES
- R-28-J SIDEWALK RAMP AND DETECTABLE WARNING DETAILS

PAVEMENT MARKING STANDARD PLANS:

- PAVE-900-F PAVEMENT ARROW AND MESSAGE DETAILS
- PAVE-905-D LONGITUDINAL LINE TYPES AND PLACEMENT
- PAVE-930-C PAVEMENT MARKINGS FOR NON-SIGNALIZED INTERSECTIONS
- PAVE-935-D LEFT TURN LANE MARKINGS
- PAVE-940-C RIGHT TURN LANE AND ISLAND PAVEMENT MARKINGS
- PAVE-945-C INTERSECTION, STOP BAR AND CROSSWALK MARKINGS
- PAVE-955-B ON-STREET PARKING ZONE MARKINGS
- PAVE-956-C PARKING AREA PAVEMENT MARKINGS
- PAVE-957-A BACK-IN ANGLE PARKING
- PAVE-960-B SCHOOL MARKINGS
- PAVE-965-D RAILROAD GRADE CROSSING PAVEMENT MARKINGS

TRAFFIC SIGNING STANDARD PLANS:

- SIGN-115-C SIGN LOCATION CODES PLACEMENT
- SIGN-130-B RAILROAD CROSSING SIGN
- SIGN-150-D SIGN SUPPORT SELECTION CHARTS
- SIGN-200-D STEEL POSTS
- SIGN-210-B WOOD POSTS
- SIGN-220-A FOUNDATION (BREAK-AWAY)
- SIGN-740-B MISCELLANEOUS SIGN CONNECTION DETAILS

TRAFFIC SIGNING SPECIAL DETAILS:

- SIGN-100-G STANDARD SIGN INSTALLATIONS
- SIGN-120-E ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING
- SIGN-205-A PERFORATED STEEL SQUARE TUBE SIGN BREAKAWAY SYS
- SIGN-207-D PERFORATED STEEL SQUARE TUBE SIGN BREAKAWAY SYS

SITE DATA

- PROJECT LOCATION:** SECTION 31, TOWNSHIP 2N, RANGE 6E
GREEN OAK CHARTER TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN
- STREET ADDRESS:** 8900 LEE ROAD
BRIGHTON, MI 48116

LEGEND	
	GRADE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING ELEVATION
	PROPOSED ELEVATION
	GROUND
	BUILDING
	ADJUST ITEM
	EDGE OF HMA
	EDGE OF CONCRETE
	INVERT ELEVATION
	BACK OF WALK
	FACE OF WALK
	TOP OF WALK
	EXISTING
	PROPOSED
	LINEAR FEET
	MID POINT
	POINT OF CURVATURE
	FINISHED FLOOR ELEVATION
	TOP OF ROCK
	GRAVEL
	CATCH BASIN
	MANHOLE
	STORM SEWER
	SANITARY SEWER
	REMOVE ITEM
	RELOCATE ITEM
	FLOW LINE

BRIGHTON AREA SCHOOLS HAWKINS ELEMENTARY ATHLETIC FIELDS BRIGHTON, MICHIGAN

PROJECT NO. 18-785

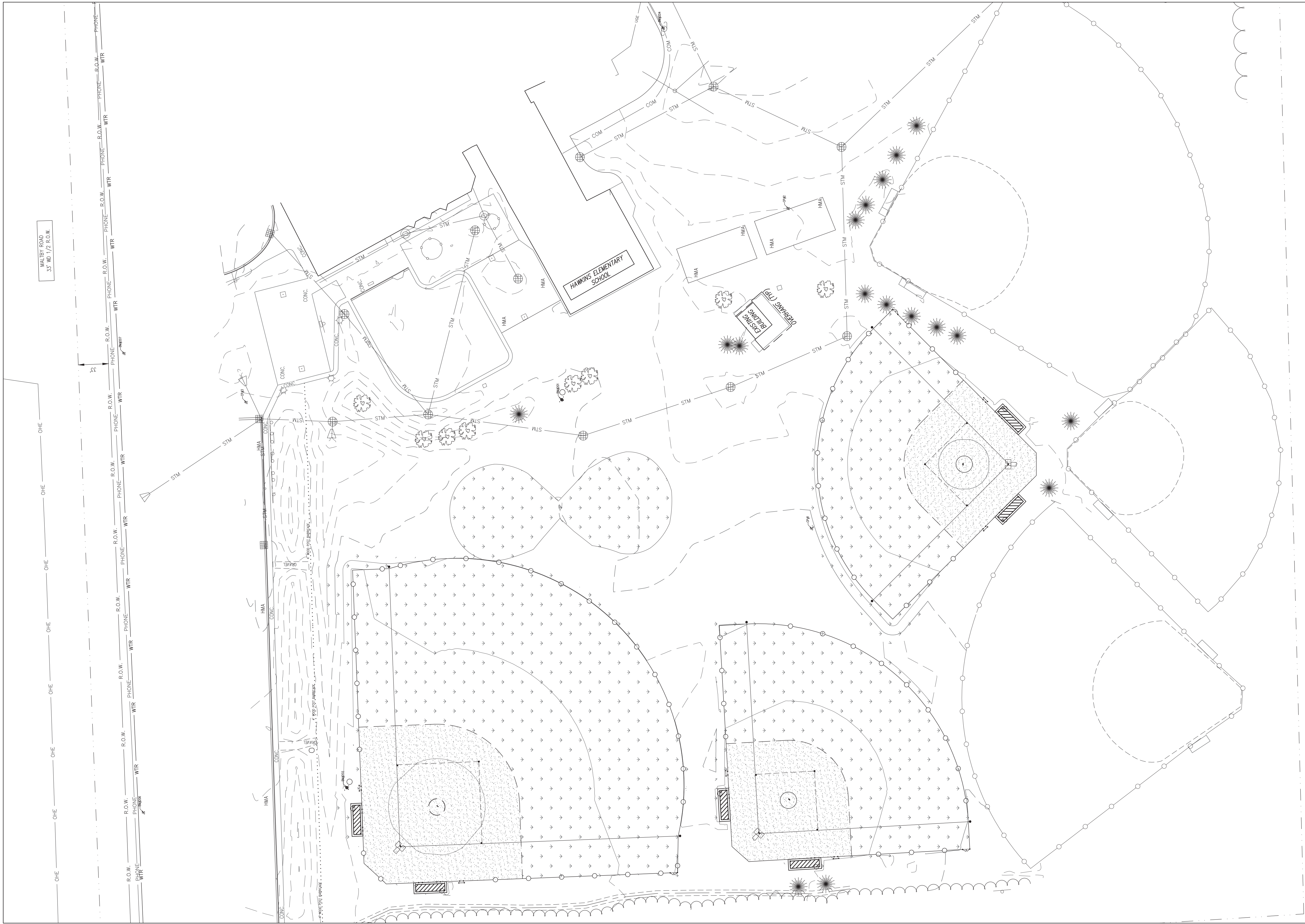
BY	DATE	NO.	REVISIONS	DATE
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DRAWN	ADW	0	FOR CONSTRUCTION	05.26.20
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APPROVED	ADW	1		

NOTES

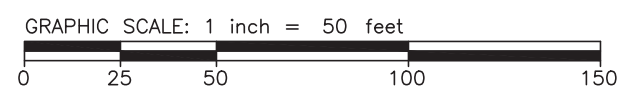
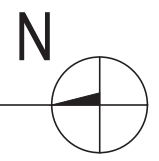
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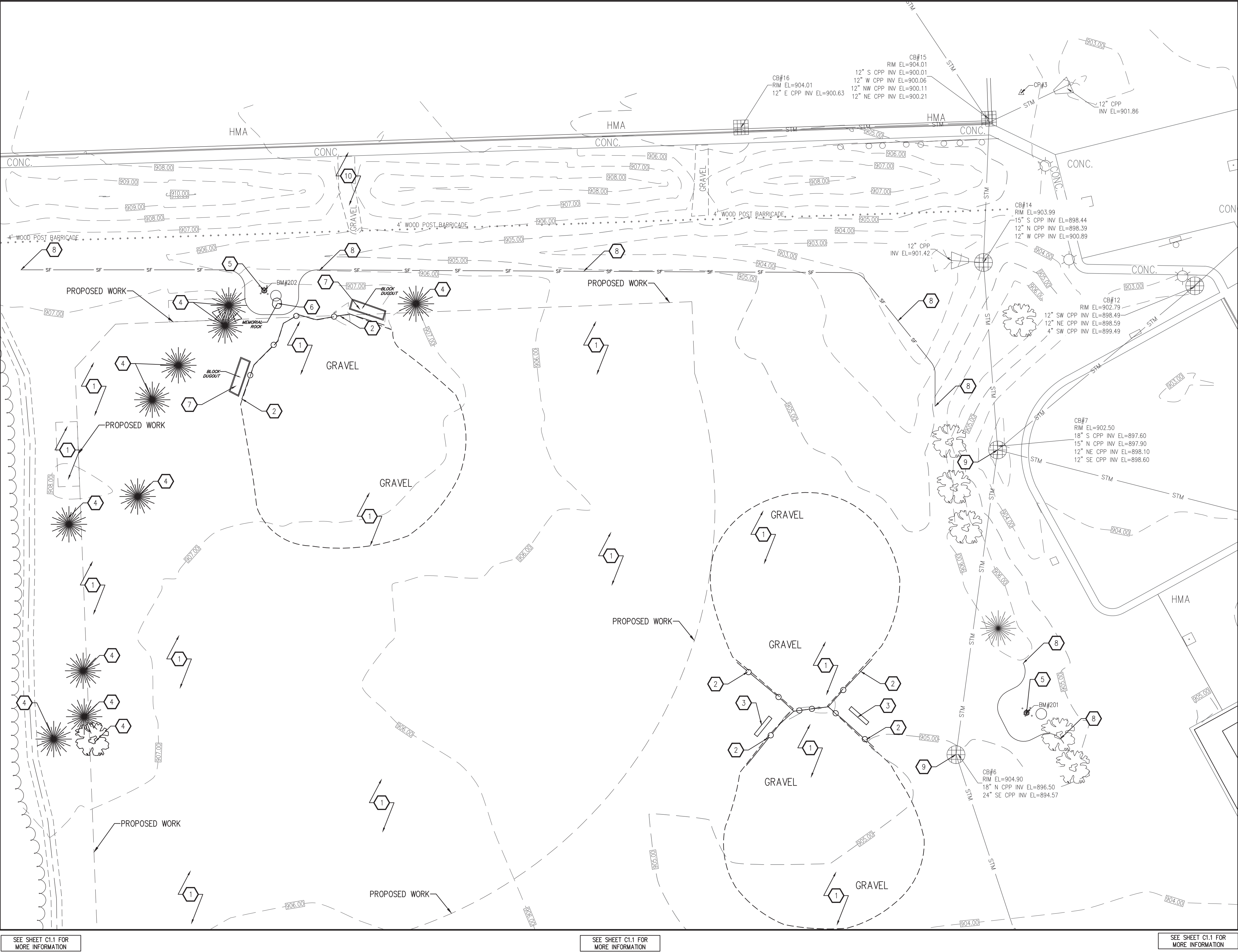
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OVERALL VIEW
SCALE: 1 INCH = 50 FEET



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			D	FOR CONSTRUCTION	05.26.20

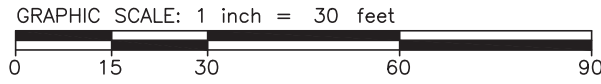


SEE SHEET C1.1 FOR
MORE INFORMATION

SEE SHEET C1.1 FOR
MORE INFORMATION

SEE SHEET C1.1 FOR
MORE INFORMATION

DEMOLITION PLAN
SCALE: 1 INCH = 30 FEET



KEYNOTES

1. REMOVE EXISTING VEGETATION, TOPSOIL, GRAVEL, INFELD MIX AND UNDERLYING MATERIAL AS REQUIRED FOR NEW WORK. SALVAGE TOPSOIL FOR RE-USE AT THIS SITE. SEE SITE PLAN.
2. REMOVE ±466 LF (ENTIRE SITE) OF EXISTING CHAIN LINK FENCE SYSTEM (HEIGHT VARIES 6 FT TO 16 FT) AND ANY ASSOCIATED GATES. REMOVAL OF THE FENCE INCLUDES REMOVAL OF ALL CONCRETE BELOW GRADE.
3. REMOVE EXISTING DUGOUTS, WOOD LEAN-TO STYLE, BENCHES, CONCRETE SLABS AND ANY ASSOCIATED BELOW GRADE CONCRETE.
4. REMOVE EXISTING TREE AND ANY ASSOCIATED ROOTS.
5. DO NOT DISTURB EXISTING WELL.
6. REMOVE AND RELOCATE MEMORIAL ROCK. SEE SITE PLAN.
7. REMOVE EXISTING CONCRETE BLOCK DUGOUTS, CONCRETE SLABS AND ANY ASSOCIATED BELOW GRADE CONCRETE.
8. INSTALL ±670 LF (ENTIRE SITE) OF SEDIMENT CONTROL, SILT FENCE. AT THE COMPLETION OF THE PROJECT, ONCE THE TURF IS WELL ESTABLISHED, REMOVE.
9. INSTALL SEDIMENT CONTROL, INLET PROTECTION, FILTER DROP AT CATCHBASINS. AT THE COMPLETION OF THE PROJECT, ONCE THE TURF IS WELL ESTABLISHED, REMOVE INLET PROTECTIONS AND CLEAN ALL ACCUMULATED SEDIMENT FROM THE CATCHBASIN.
10. A TRACKING PAD IS REQUIRED AT ALL CONTRACTOR INGRESS/EGRESS LOCATIONS WHERE SEDIMENT MAY BE TRACKED OFF SITE. LOCATION SHOWN IS FOR INFORMATION ONLY AND MAY VARY WITH CONTRACTORS OPERATIONS. SEE DETAIL SHEET.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY

BRIGHTON AREA SCHOOLS
HAWKINS ELEMENTARY ATHLETIC FIELDS
BRIGHTON, MICHIGAN

PROJECT NO. 18-785

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APPROVED	ADM	D	FOR CONSTRUCTION	05.26.20

DEMOLITION PLAN
NORTH

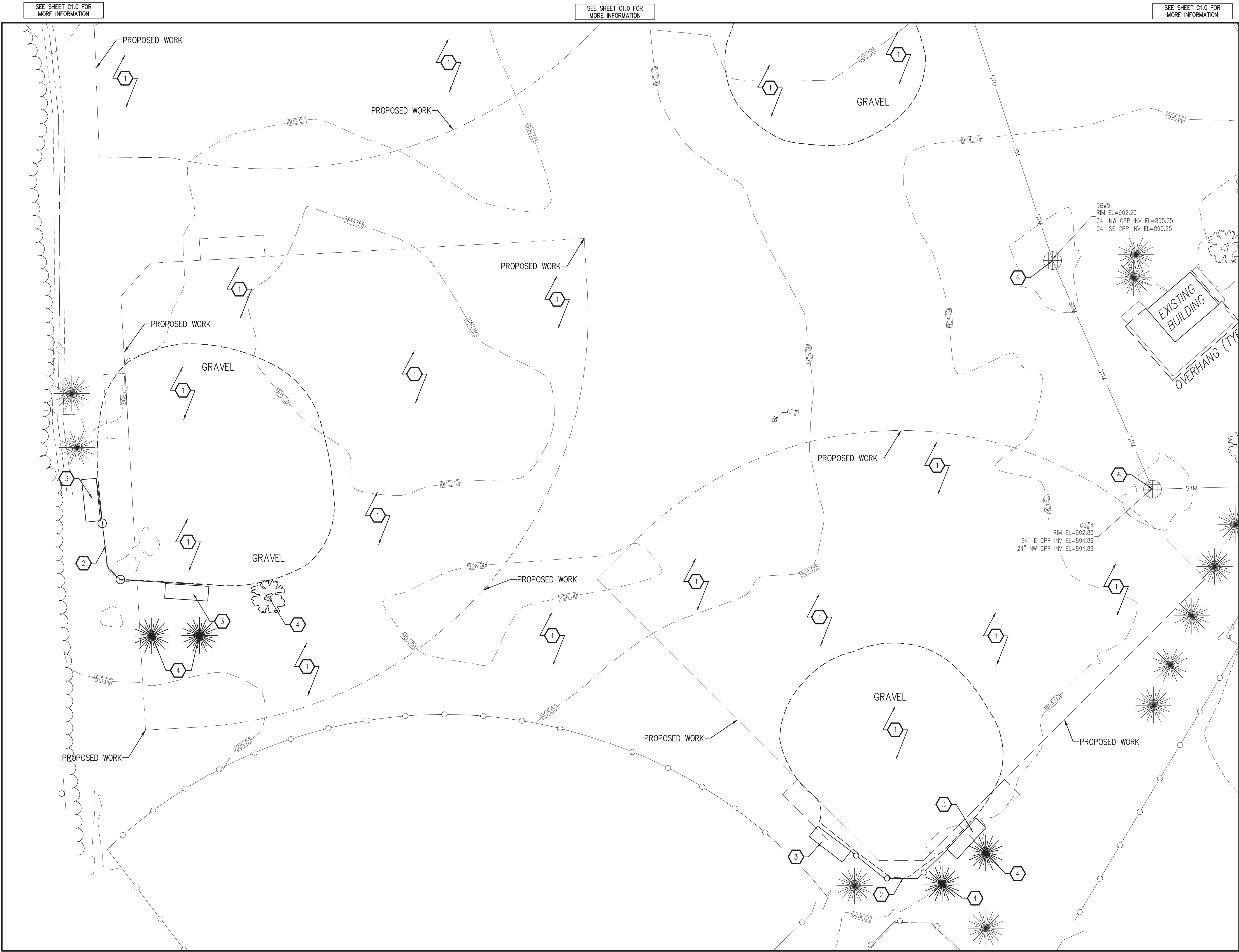
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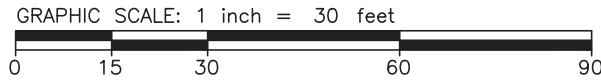
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BRIGHTON OFFICE:
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BRIGHTON, MI 48816
PHONE: (810)229-2701 FAX: (810)229-5707





DEMOLITION PLAN
SCALE: 1 INCH = 30 FEET



KEYNOTES

- SEE CURRENT MDOT SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS UNLESS OTHERWISE SPECIFIED —
1. REMOVE EXISTING VEGETATION, TOPSOIL, GRAVEL, INFILL MIX AND UNDERLYING MATERIAL AS REQUIRED FOR NEW WORK. SALVAGE TOPSOIL FOR RE-USE AT THIS SITE. SEE SITE PLAN.
 2. REMOVE ±466 LF (ENTIRE SITE) OF EXISTING CHAIN LINK FENCE SYSTEM (HEIGHT VARIES 6 FT TO 16 FT) AND ANY ASSOCIATED GATES. REMOVAL OF THE FENCE INCLUDES REMOVAL OF ALL CONCRETE BELOW GRADE.
 3. REMOVE EXISTING DUGOUTS, WOOD LEAN-TO STYLE, BENCHES, CONCRETE SLABS AND ANY ASSOCIATED BELOW GRADE CONCRETE.
 4. REMOVE EXISTING TREE AND ANY ASSOCIATED ROOTS.
 5. NOT USED.
 6. INSTALL SEDIMENT CONTROL, INLET PROTECTION, FILTER DROP AT CATCHBASINS. AT THE COMPLETION OF THE PROJECT, ONCE THE TURF IS WELL ESTABLISHED, REMOVE INLET PROTECTIONS AND CLEAN ALL ACCUMULATED SEDIMENT FROM THE CATCHBASINS.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY

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DEMOLITION PLAN
SOUTH

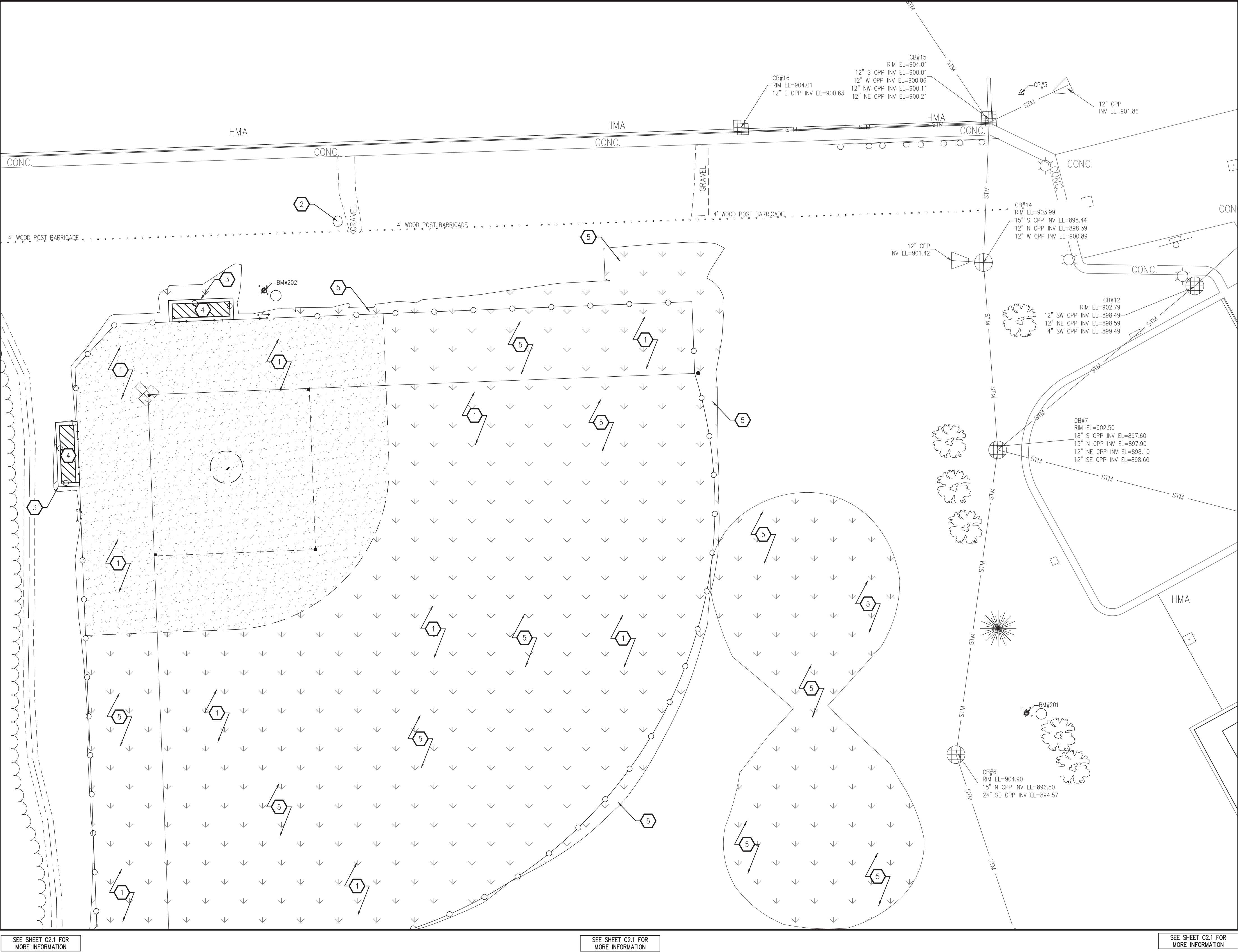
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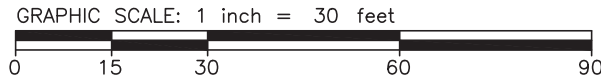
SEE SHEET C2.1 FOR
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SITE PLAN

SCALE: 1 INCH = 30 FEET

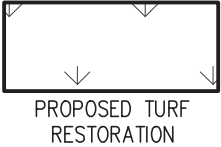
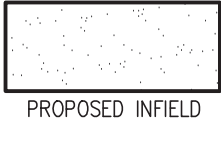


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KEYNOTES

- SEE CURRENT MDOT SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS UNLESS OTHERWISE SPECIFIED —
1. CONSTRUCT PROPOSED 340 FT FIELD. SEE GRADING AND DETAIL SHEET.
 2. PROPOSED LOCATION OF RELOCATED MEMORIAL ROCK. CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE ON THE FINAL PLACEMENT LOCATION.
 3. PROPOSED CONCRETE SLAB. SEE DETAIL SHEET.
 4. PROPOSED DUCOUT. SEE DETAIL SHEET, ALTERNATE #1.
 5. PROPOSED TURF RESTORATION. SEE DETAIL SHEET.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY



BRIGHTON AREA SCHOOLS
HAWKINS ELEMENTARY ATHLETIC FIELDS
BRIGHTON, MICHIGAN

PROJECT NO. 18-785

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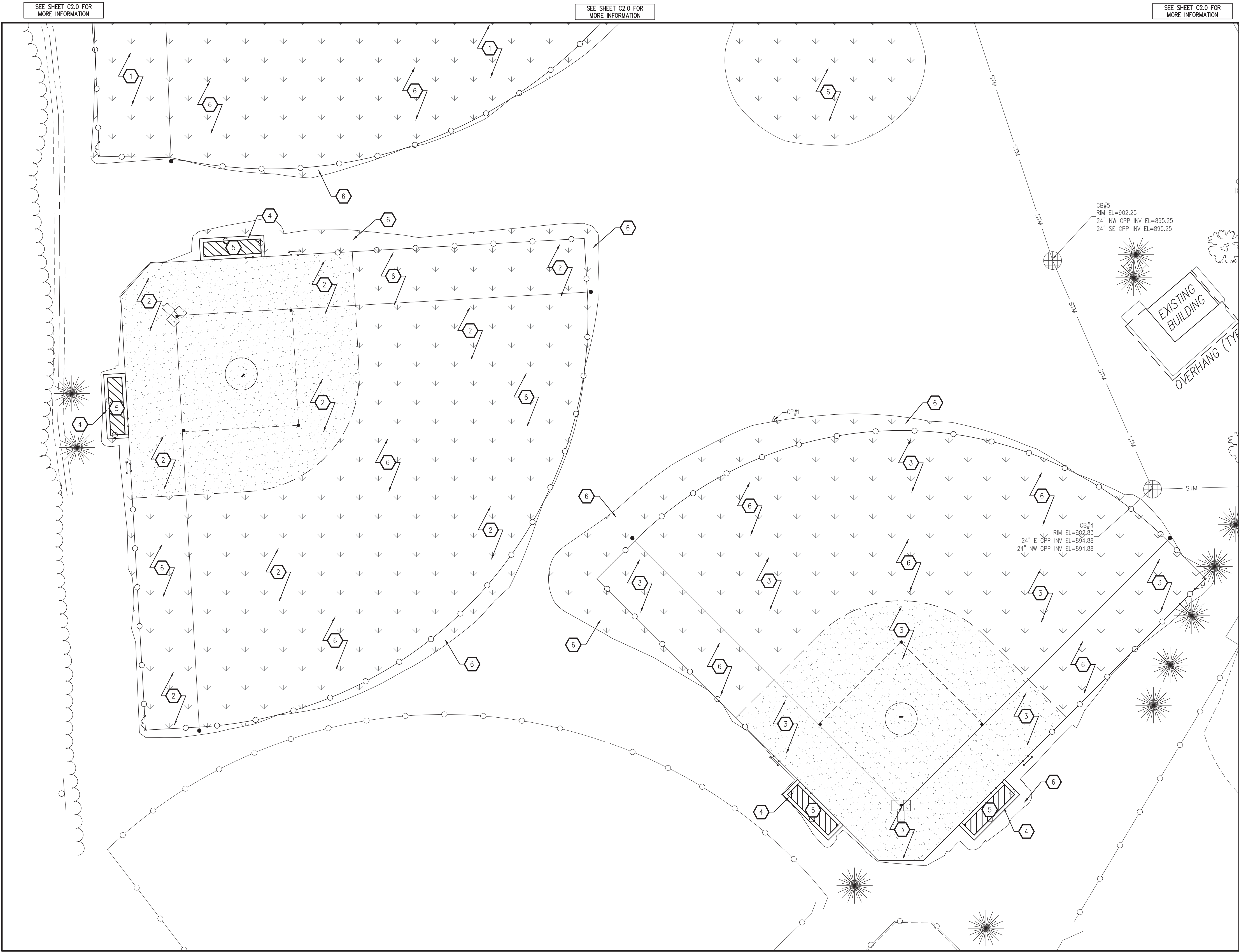
SITE PLAN
NORTH

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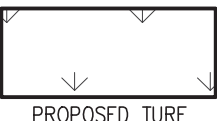
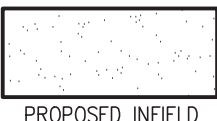


KEYNOTES

SEE CURRENT MDOT SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS UNLESS OTHERWISE SPECIFIED

1. PROPOSED 340 FT FIELD. SEE GRADING AND DETAIL SHEET.
2. PROPOSED 230 FT FIELD. SEE GRADING AND DETAIL SHEET.
3. PROPOSED 210 FT FIELD. SEE GRADING AND DETAIL SHEET.
4. PROPOSED CONCRETE SLAB. SEE DETAIL SHEET.
5. PROPOSED DUGOUT. SEE DETAIL SHEET, ALTERNATE #1.
6. PROPOSED TURF RESTORATION. SEE DETAIL SHEET.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY



SITE PLAN

SCALE: 1 INCH = 30 FEET

GRAPHIC SCALE: 1 inch = 30 feet

NOTE: THE CONSTRUCTION AND DIMENSIONS FOR ALL ATHLETIC FACILITIES SHALL CONFORM TO THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS) "COURT AND FIELD DIAGRAM GUIDE", CURRENT EDITION. THE CONTRACTOR SHALL REFERENCE THIS GUIDE BEFORE STARTING CONSTRUCTION.

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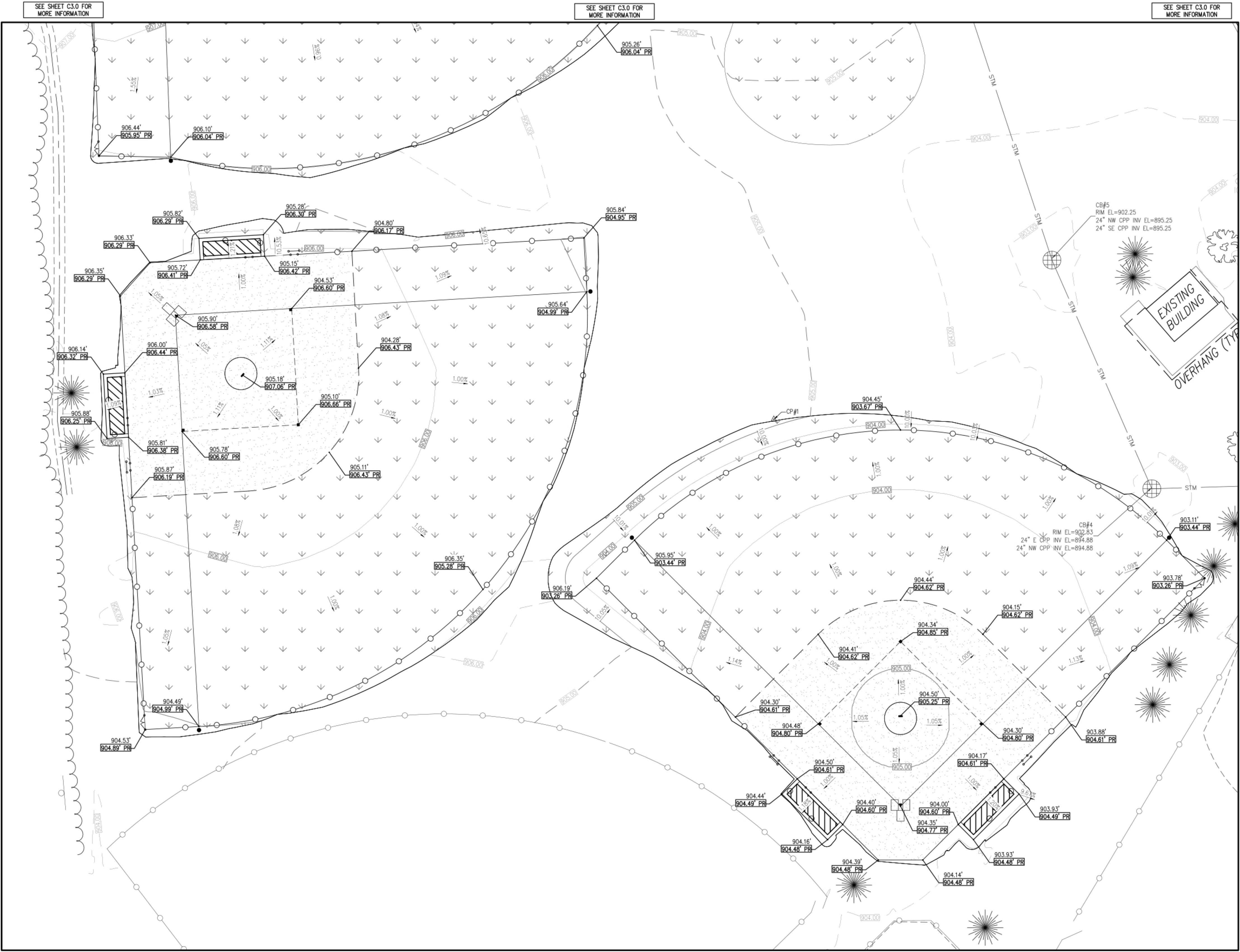
SITE PLAN
SOUTH

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



LEGEND	
---	GRADE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	EXISTING ELEVATION
---	PROPOSED ELEVATION
---	582.34
---	582.63 PR
GND	GROUND
BDG	BUILDING
ADJ	ADJUST ITEM
EB	EDGE OF HMA
EC	EDGE OF CONCRETE
E	INVERT ELEVATION
BW	BACK OF WALK
FW	FACE OF WALK
TW	TOP OF WALK
EX	EXISTING
PR	PROPOSED
LF	LINEAR FEET
MP	MID POINT
PC	POINT OF CURVATURE
FTE	FINISHED FLOOR ELEVATION
TR	TOP OF ROCK
GRV	GRAVEL
CB	CATCH BASIN
MH	MANHOLE
STM	STORM SEWER
SAN	SANITARY SEWER
REL	REMOVE ITEM
FL	RELOCATE ITEM
FL	FLOW LINE

GRADING PLAN
SCALE: 1 INCH = 30 FEET



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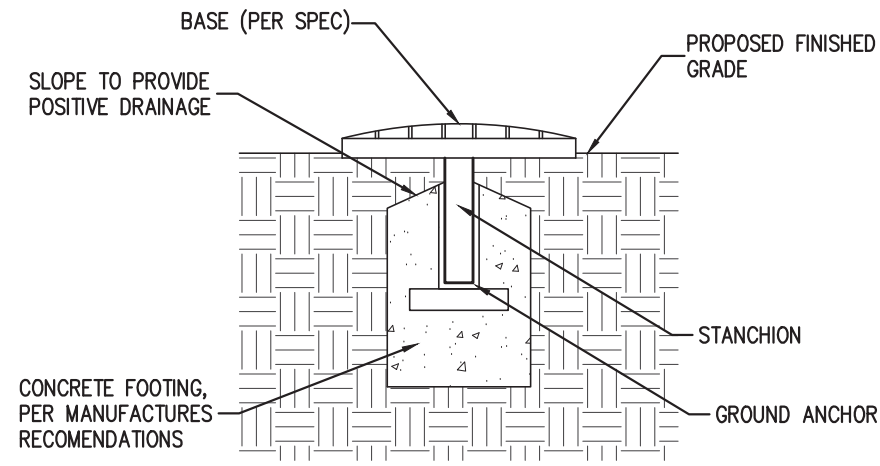
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GRADING PLAN
SOUTH

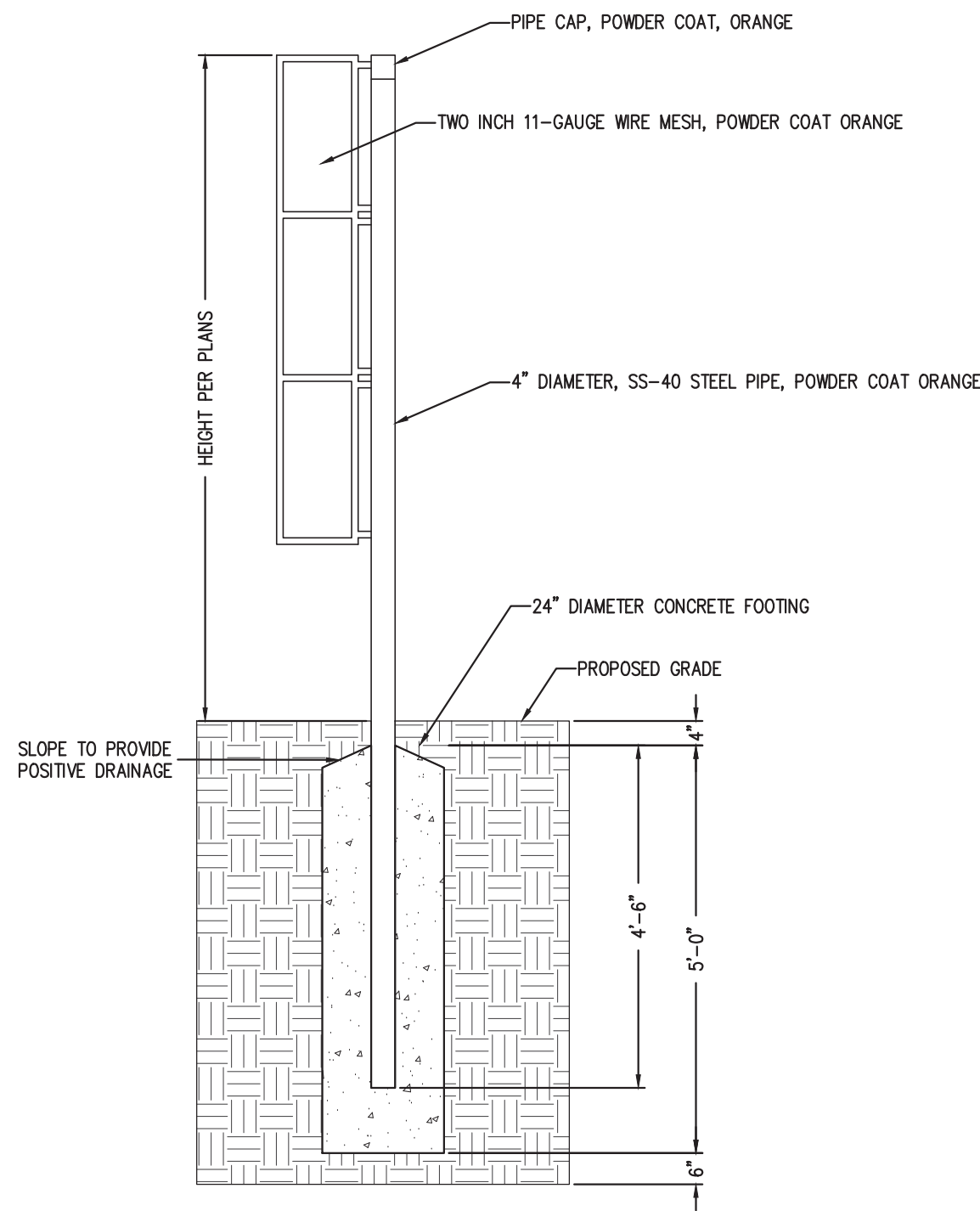
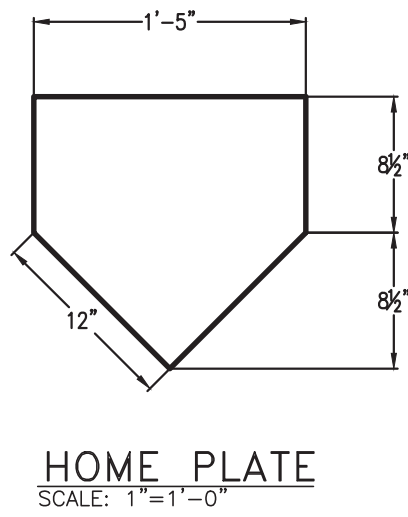
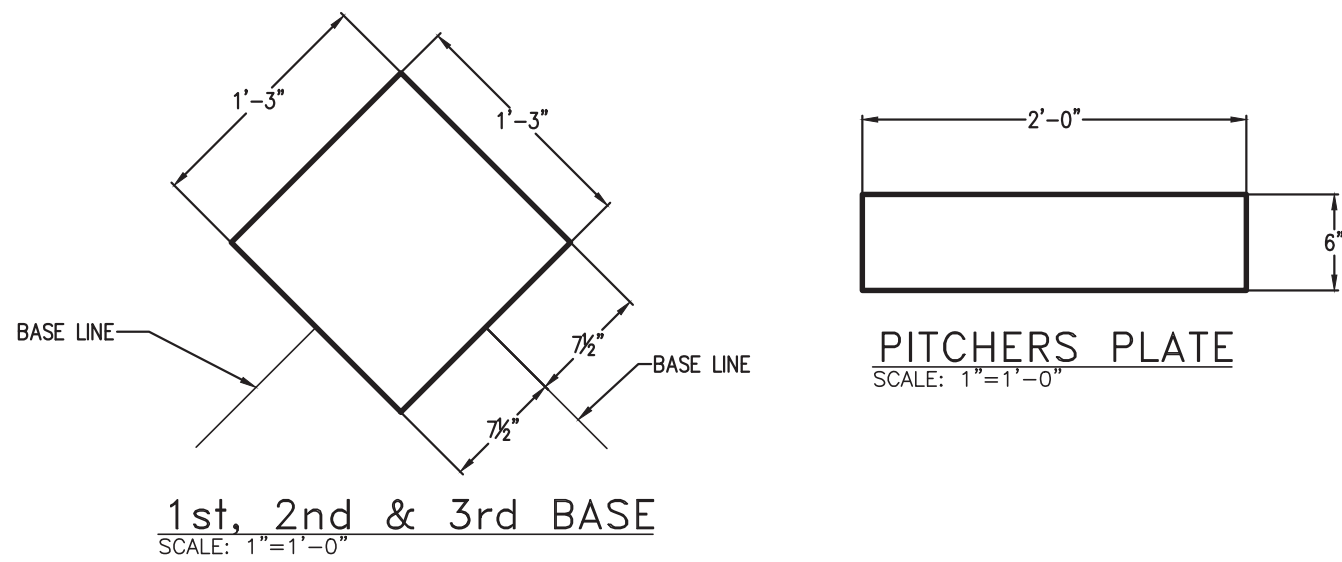
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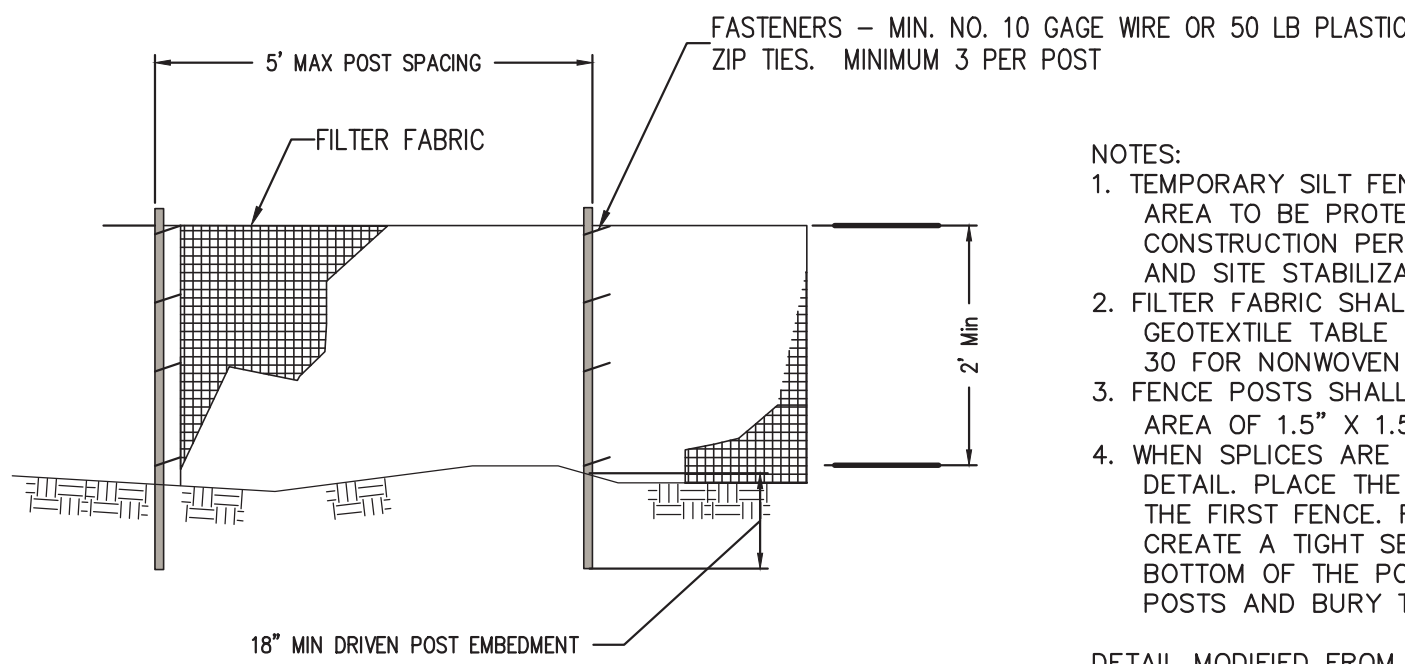
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BASE ANCHOR DETAIL
NOT TO SCALE

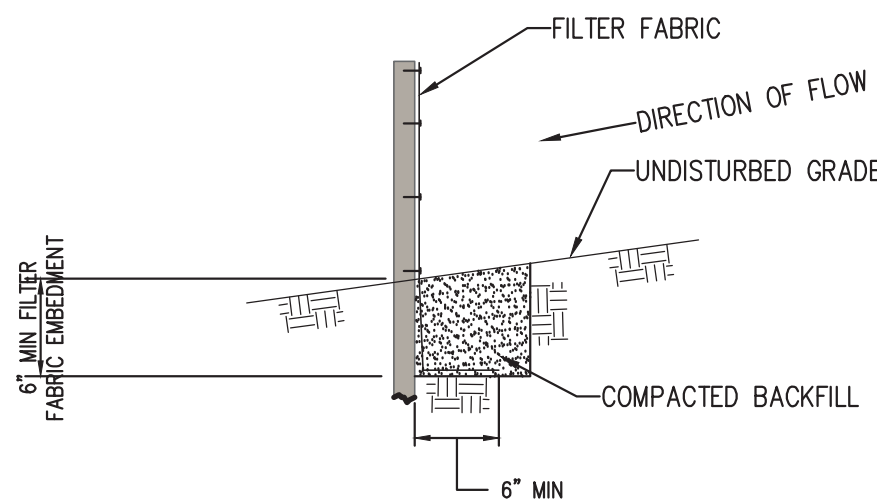


FOUL BALL POLE DETAIL
NOT TO SCALE

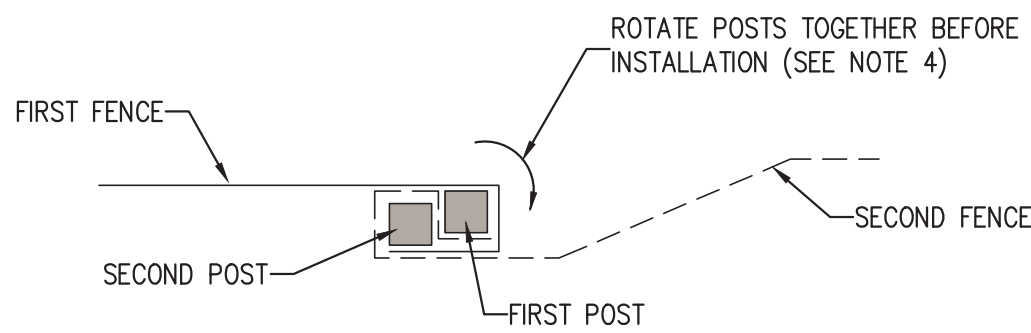


- NOTES:
1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS L WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 3. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" X 1.5" OR A STANDARD STEEL POST.
 4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.

DETAIL MODIFIED FROM NRCS-IL STANDARD DRAWING NRCS141P2_029360

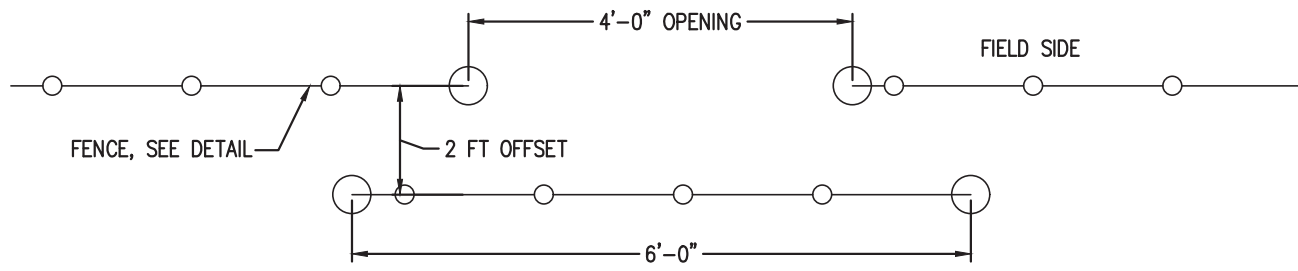


FABRIC ANCHOR DETAIL

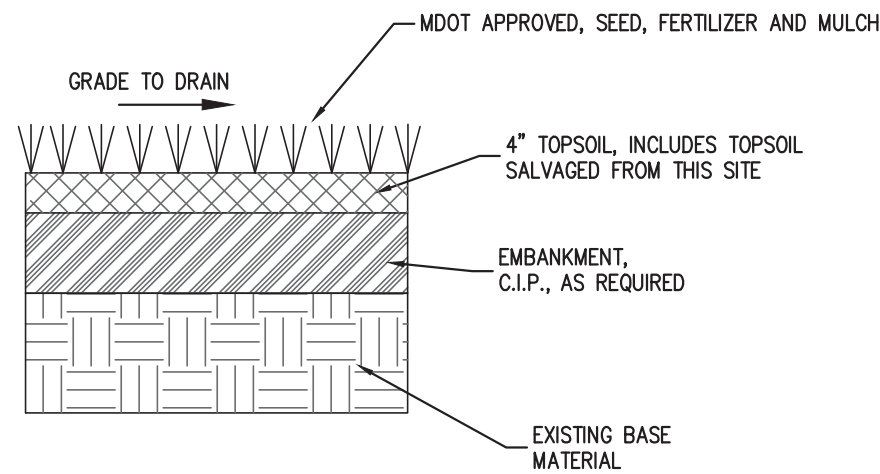


SPLICE DETAIL-PLAN VIEW

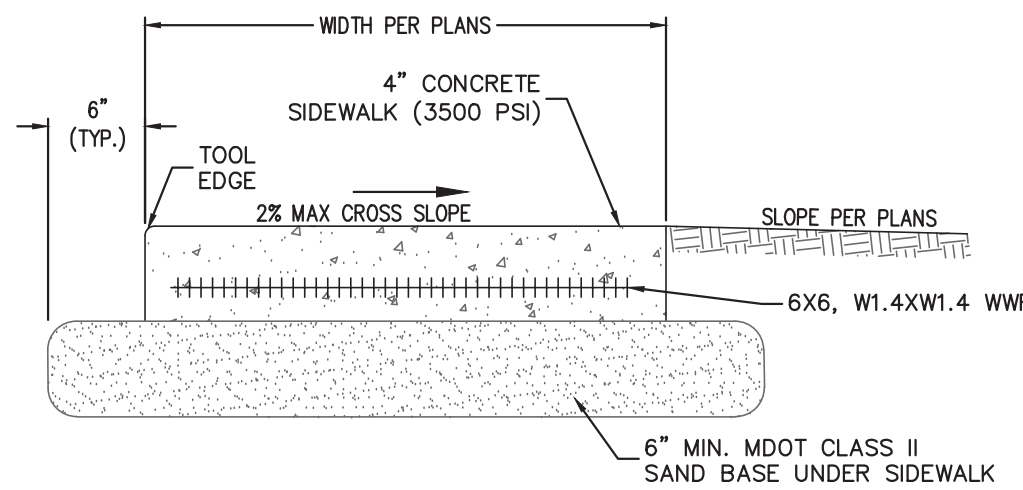
SILT FENCE INSTALLATION DETAIL
NOT TO SCALE



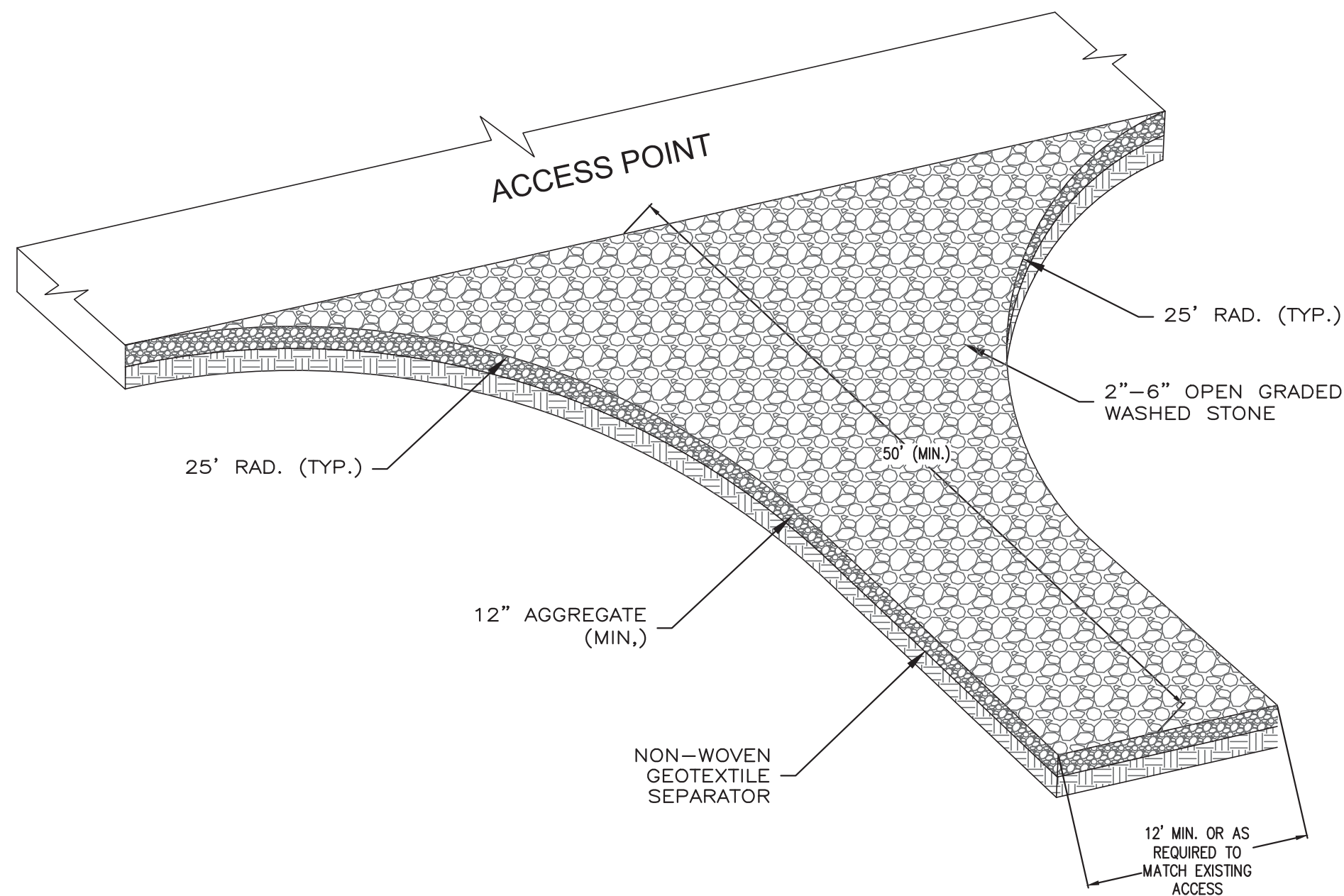
4 FT ACCESS GATE
NOT TO SCALE



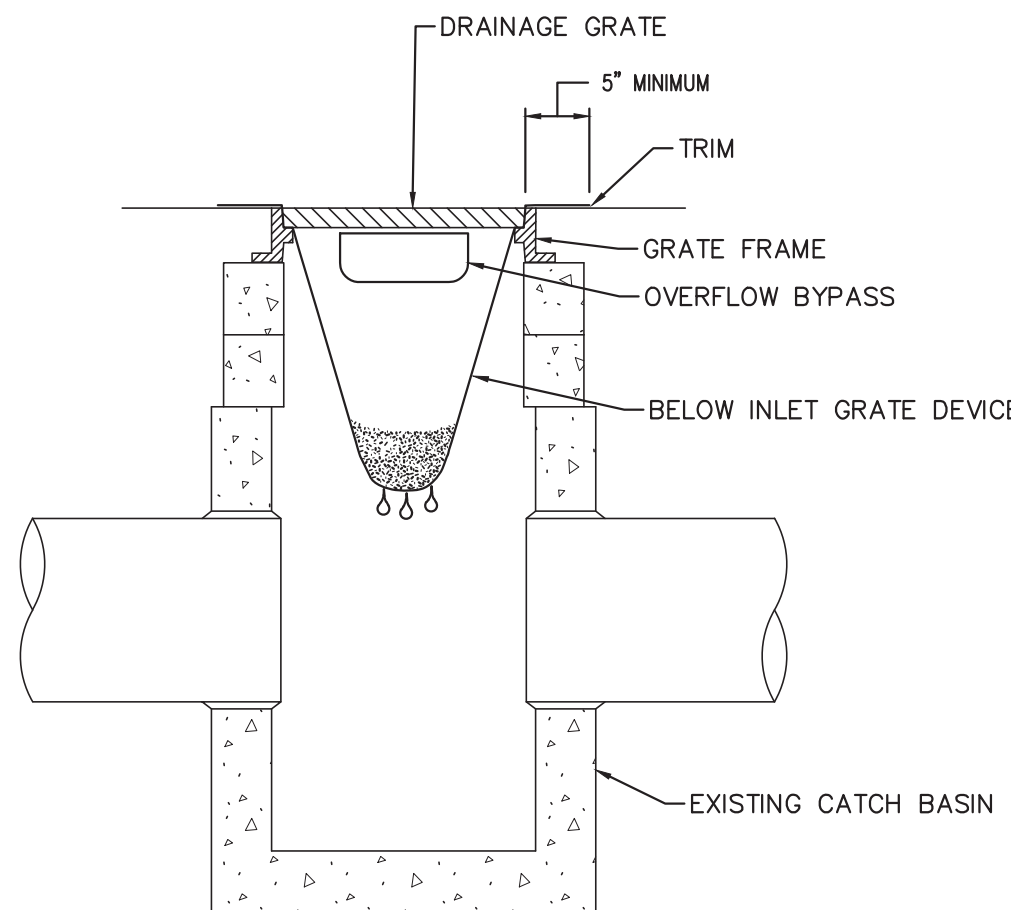
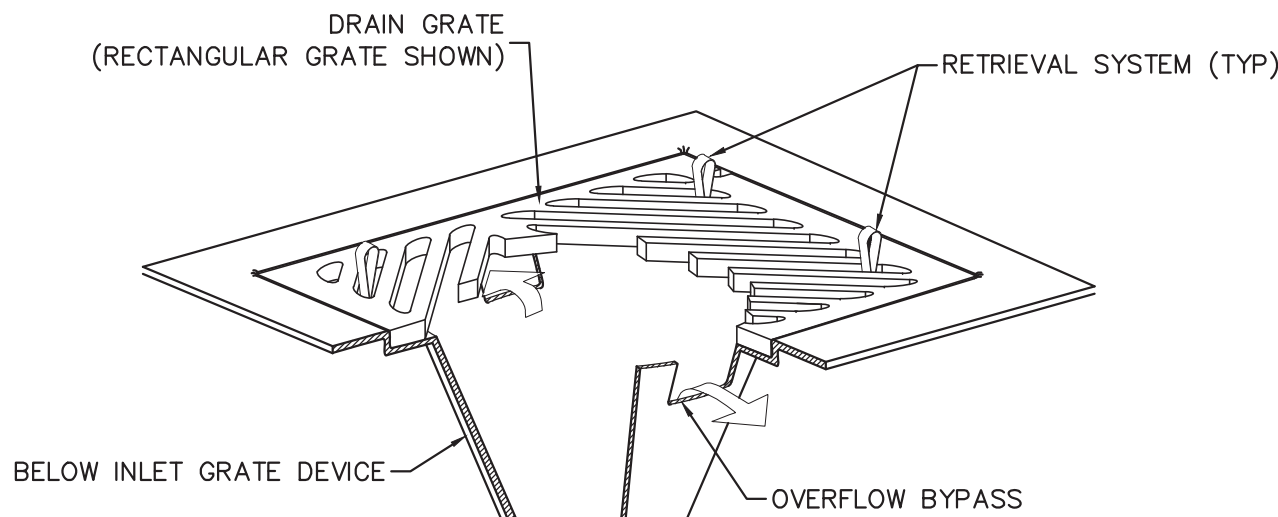
TURF RESTORATION DETAIL
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



INLET PROTECTION FABRIC DROP
NOT TO SCALE

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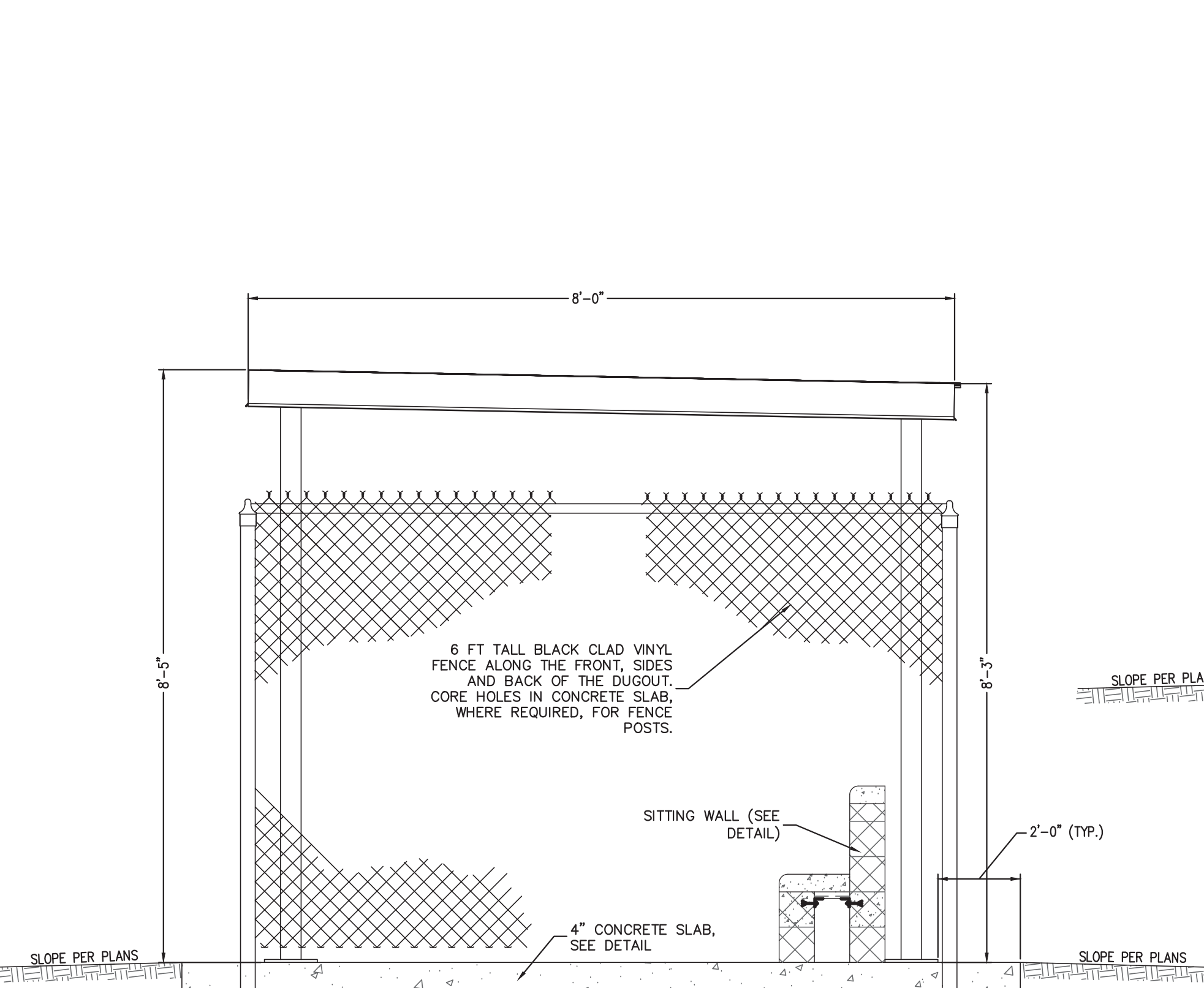
BRIGHTON AREA SCHOOLS
HAWKINS ELEMENTARY ATHLETIC FIELDS
BRIGHTON, MICHIGAN
PROJECT NO. 18-785

NO.	REVISIONS	DATE
A	SD's	02.21.20
B	DD's	03.31.20
C	FINAL REVIEW	05.11.20
D	FOR CONSTRUCTION	05.26.20

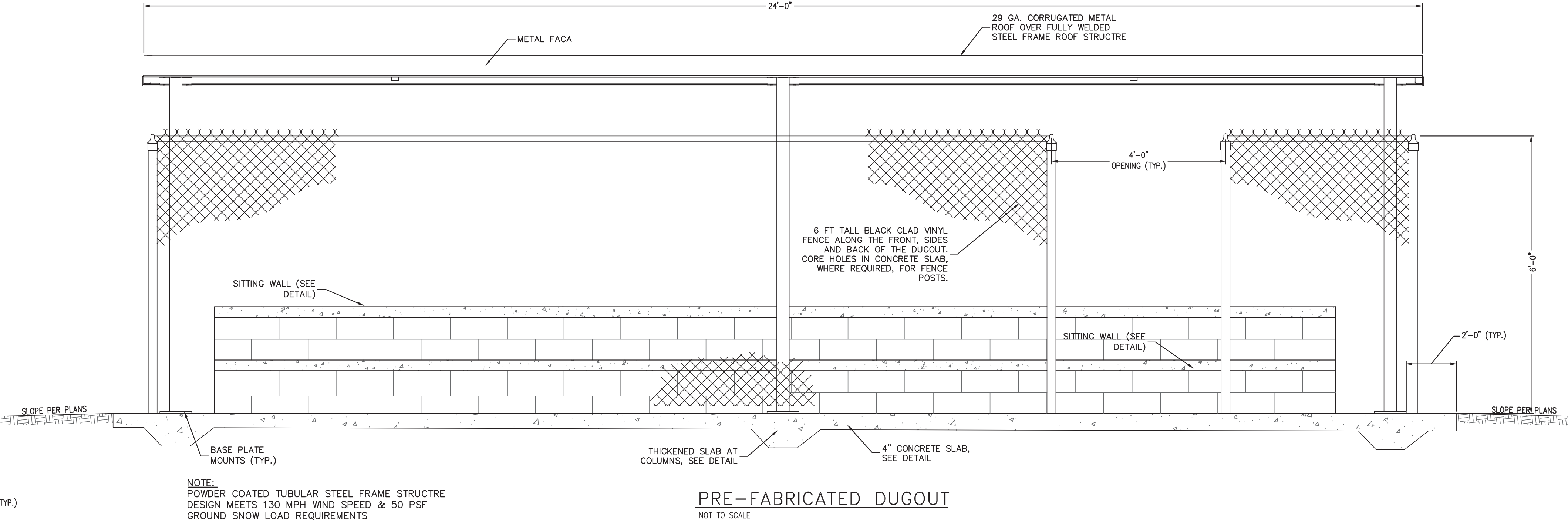
SITE DETAILS

C4.0

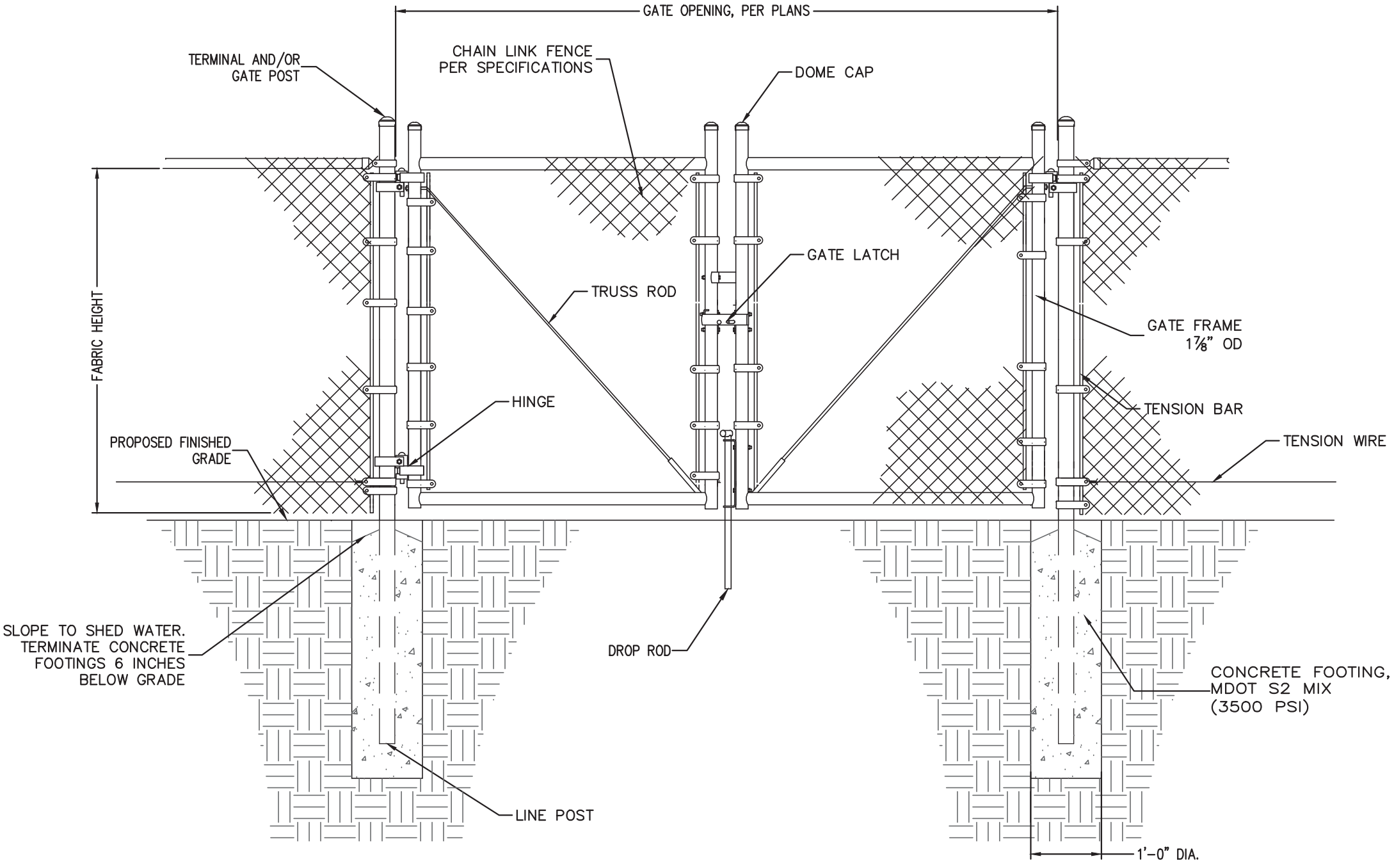
NOTE: THE CONSTRUCTION AND DIMENSIONS FOR ALL ATHLETIC FACILITIES SHALL CONFORM TO THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS) "COURT AND FIELD DIAGRAM GUIDE", CURRENT EDITION. THE CONTRACTOR SHALL REFERENCE THIS GUIDE BEFORE STARTING CONSTRUCTION.



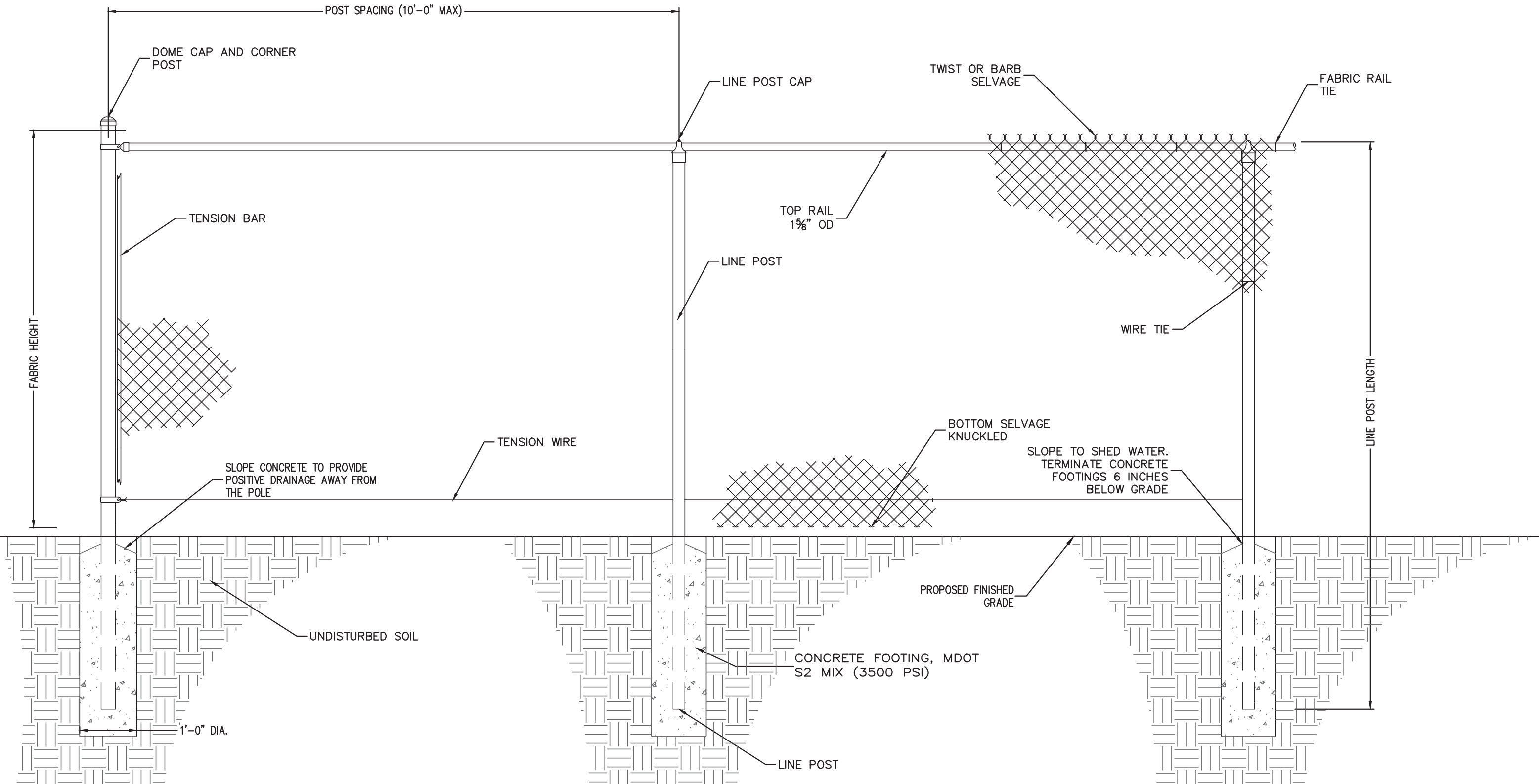
PRE-FABRICATED DUGOUT
NOT TO SCALE



PRE-FABRICATED DUGOUT
NOT TO SCALE



CHAIN LINK FENCE - DOUBLE SWING GATE DETAIL
NOT TO SCALE



CHAIN LINK FENCE DETAIL
NOT TO SCALE

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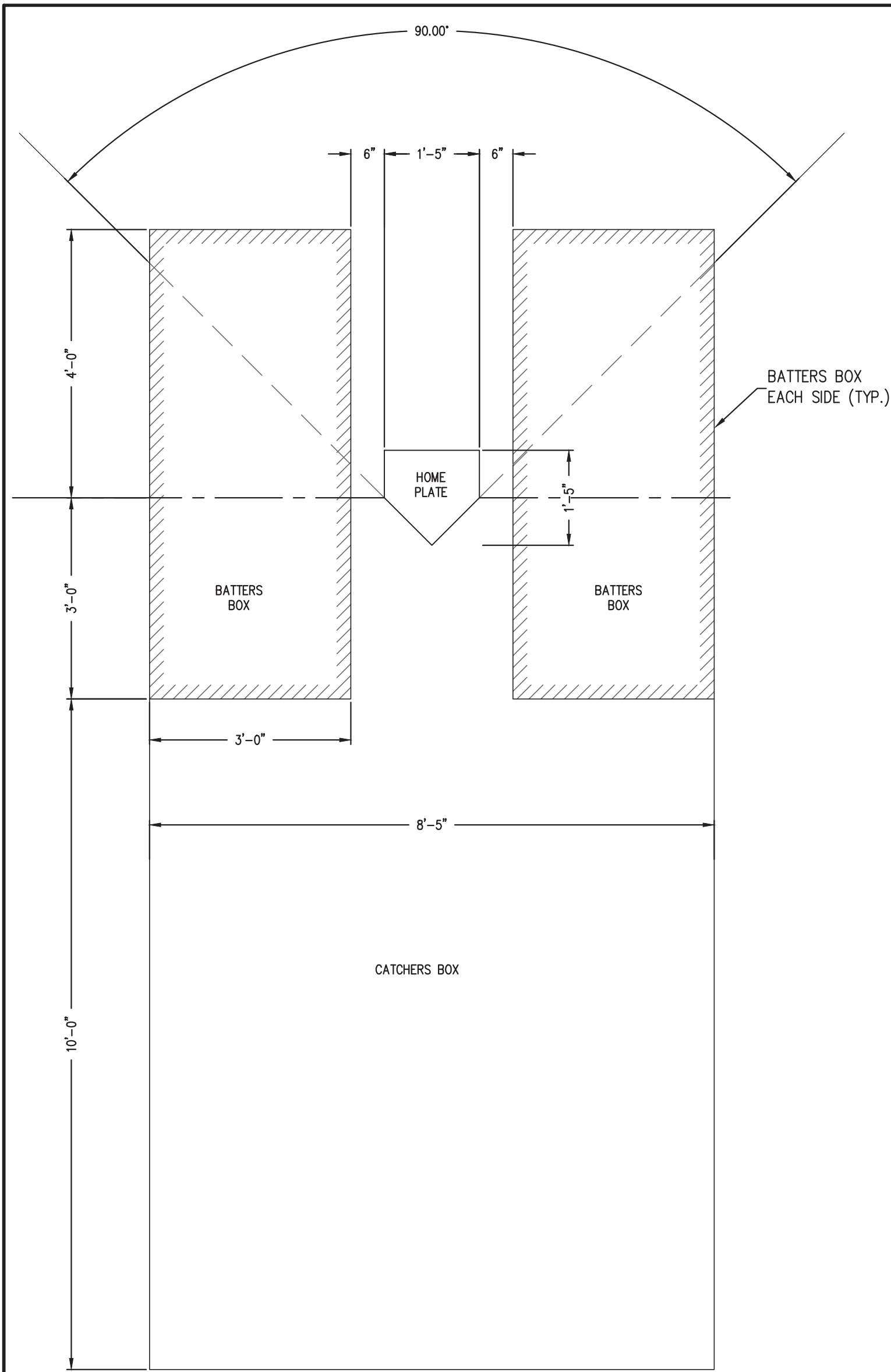
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BY	DATE
ADM	---
ADM	---
BLK	---
APPROVED ADM	---

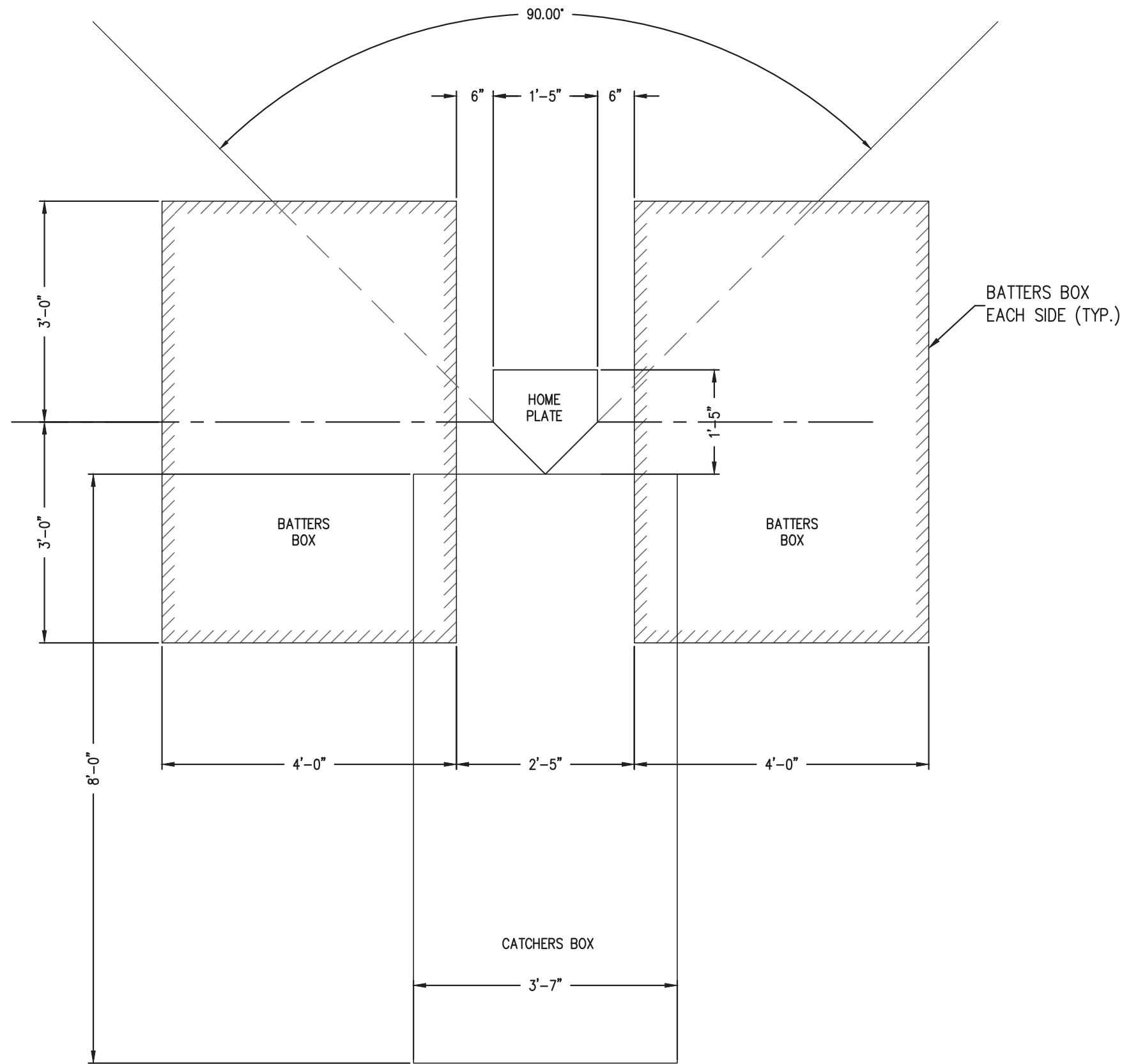
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SITE DETAILS

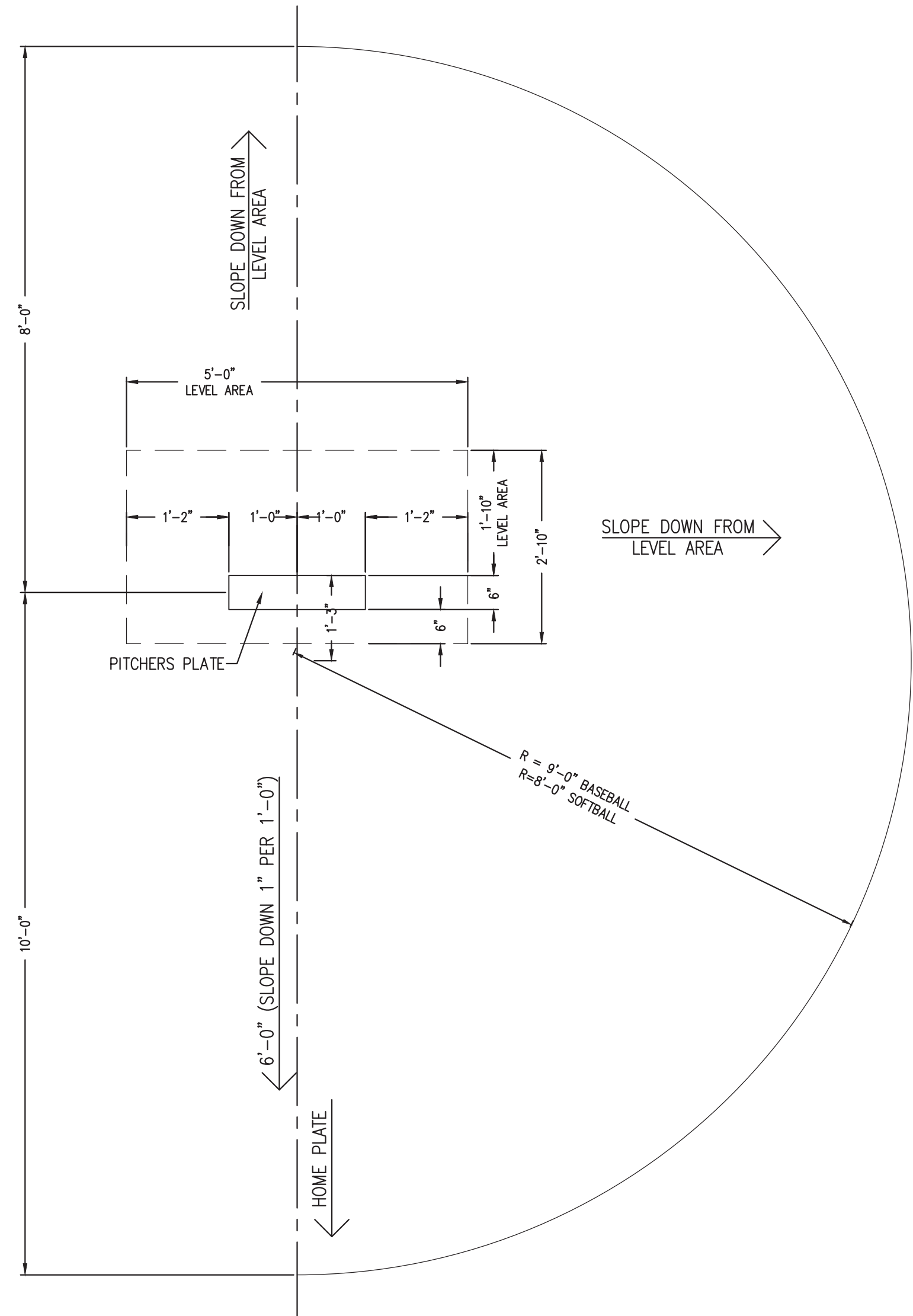
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SOFTBALL CATCHER'S BOX
SCALE: 1"=20'-0"

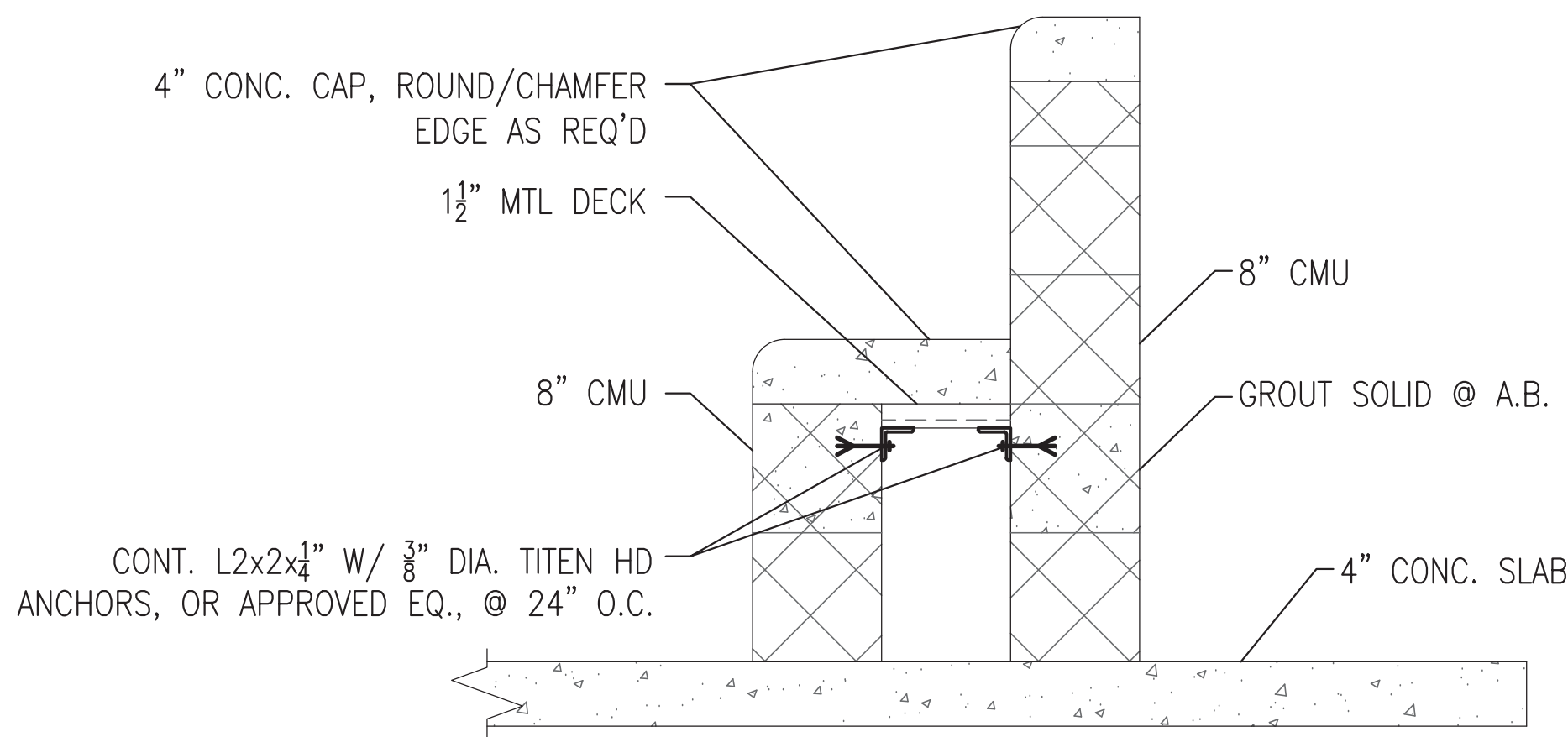


BASEBALL CATCHER'S BOX
SCALE: 1"=20'-0"

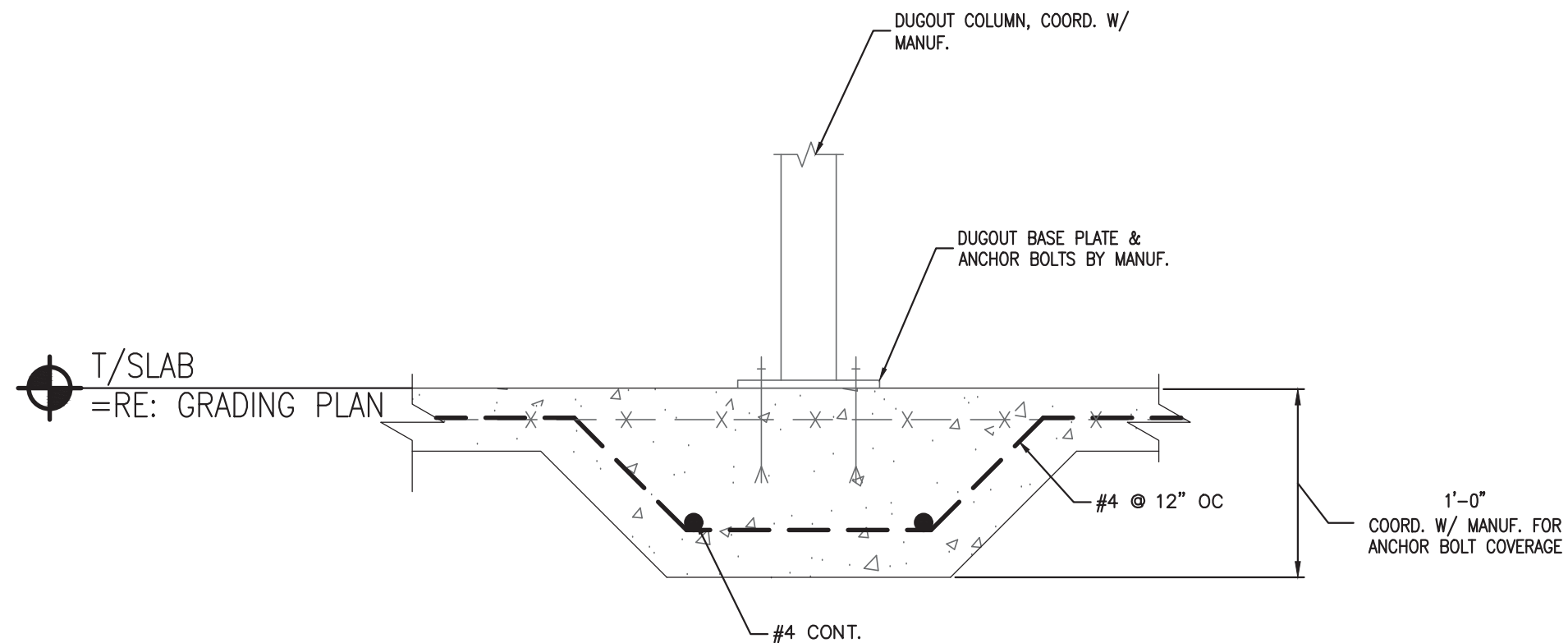


NOTE: PITCHERS PLATE TO BE 10" ABOVE TOP SURFACE OF HOME PLATE

PITCHERS MOUND
SCALE: 1"=20'-0"

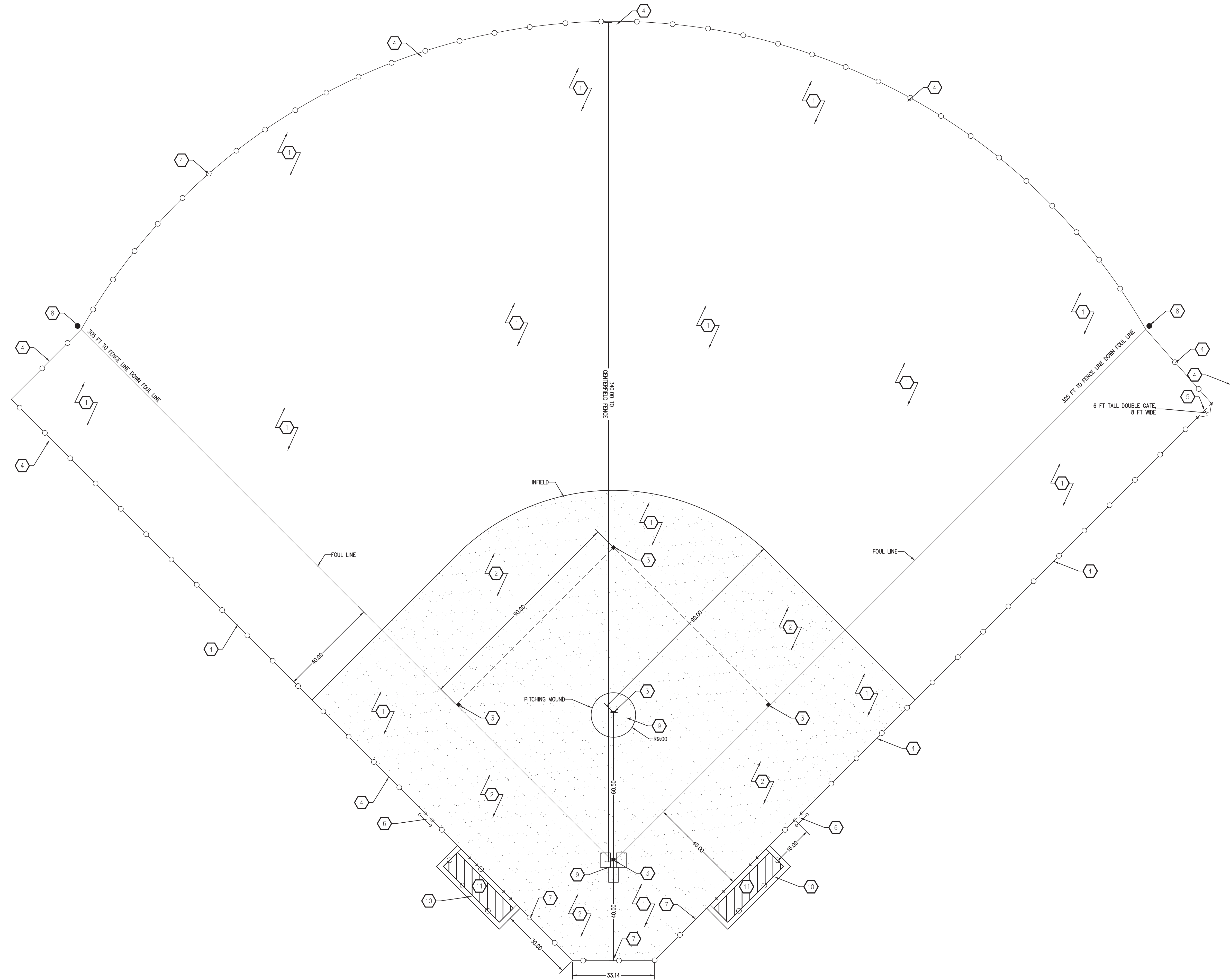


SITTING WALL
SCALE: NOT TO SCALE



THICKENED SLAB AT COLUMN
SCALE: NOT TO SCALE

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340' FIELD LAYOUT
SCALE: 1"=20'-0"

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KEYNOTES

1. REMOVE EXISTING CONCRETE, GRAVEL, VEGETATION, TOPSOIL AND UNDERLYING MATERIAL AS REQUIRED FOR NEW WORK. TOPSOIL MAY BE SALVAGED FOR REUSE ON THIS PROJECT. GRADE OUTFIELD PER GRADING PLAN. PLACE 4 INCHES OF TOPSOIL (TOPSOIL SALVAGED FROM THIS SITE IS ACCEPTABLE) AND SEED, FERTILIZE, FUNGICIDE & MULCH.
2. DEVELOP INFELD BY CLEARING EXISTING VEGETATION, TOPSOIL AND UNDERLYING MATERIAL, AS REQUIRED FOR NEW WORK. TOPSOIL MAY BE SALVAGED FOR REUSE ON THIS PROJECT. PLACE 4 INCHES OF INFELD MIX THAT SHALL CONSIST OF 2 INCHES STONE DUST AND 2 INCHES OF WASHINGTON BALL MIX BY MAR-CO OR APPROVED EQUAL. SEE DETAIL SHEET.
3. PROPOSED BASES AND PLATES. SEE DETAIL SHEET.
4. INSTALL 6 FT TALL BLACK VINYL CLAD CHAIN LINK FENCE WITH CROWN TOP PROTECTOR, COLOR "ORANGE". SEE DETAIL SHEET.
5. INSTALL 6 FT TALL X 8 FT WIDE BLACK VINYL CLAD CHAIN LINK DOUBLE SWING GATE AT LOCATIONS SHOWN WITH CROWN TOP PROTECTOR, COLOR ORANGE. SEE DETAIL SHEET.
6. INSTALL 4 FT WIDE PEDESTRIAN ACCESS GATE. SEE DETAIL SHEET.
7. INSTALL 20 FT TALL CHAIN LINK BACKSTOP.
8. INSTALL (2) FOUL POLE, 30 FT HIGH - COLOR ORANGE. SEE DETAIL SHEET.
9. INSTALL PACKING CLAYS, BY TURFACE ATHLETICS OR APPROVED EQUAL, PER MANUFACTURE'S RECOMMENDATIONS FOR BASEBALL PITCHING MOUND AND BASEBALL BATTERS/CATCHING BOX. SEE DETAIL SHEET.
10. PROPOSED CONCRETE PAD FOR DUGOUT. SEE STRUCTURAL PLANS AND BID ALTERNATE #1.

BID ALTERNATE #1

11. PROPOSED PRE-FABRICATED DUGOUT ON CONCRETE SLAB (GAMESHADE BY SPORTSFIELD SPECIALTIES, OR APPROVED EQUAL) WITH SITTING WALL. INSTALL ±84 LF OF 6 FT BLACK VINYL CLAD CHAIN LINK FENCE ON ALL SIDES OF THE DUGOUT WITH TWO (2) 4 FT WIDE OPENINGS (ONE ON THE BASE SIDE AND ONE ON THE HOME PLATE SIDE). SEE DETAIL.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY

CONTRACTOR RESPONSIBLE FOR EMPLOYING AN MDOT CERTIFIED TECHNICIAN FOR ALL MATERIAL AND COMPACTION TESTS.

BRIGHTON AREA SCHOOLS
HAWKINS ELEMENTARY ATHLETIC FIELDS
BRIGHTON, MICHIGAN

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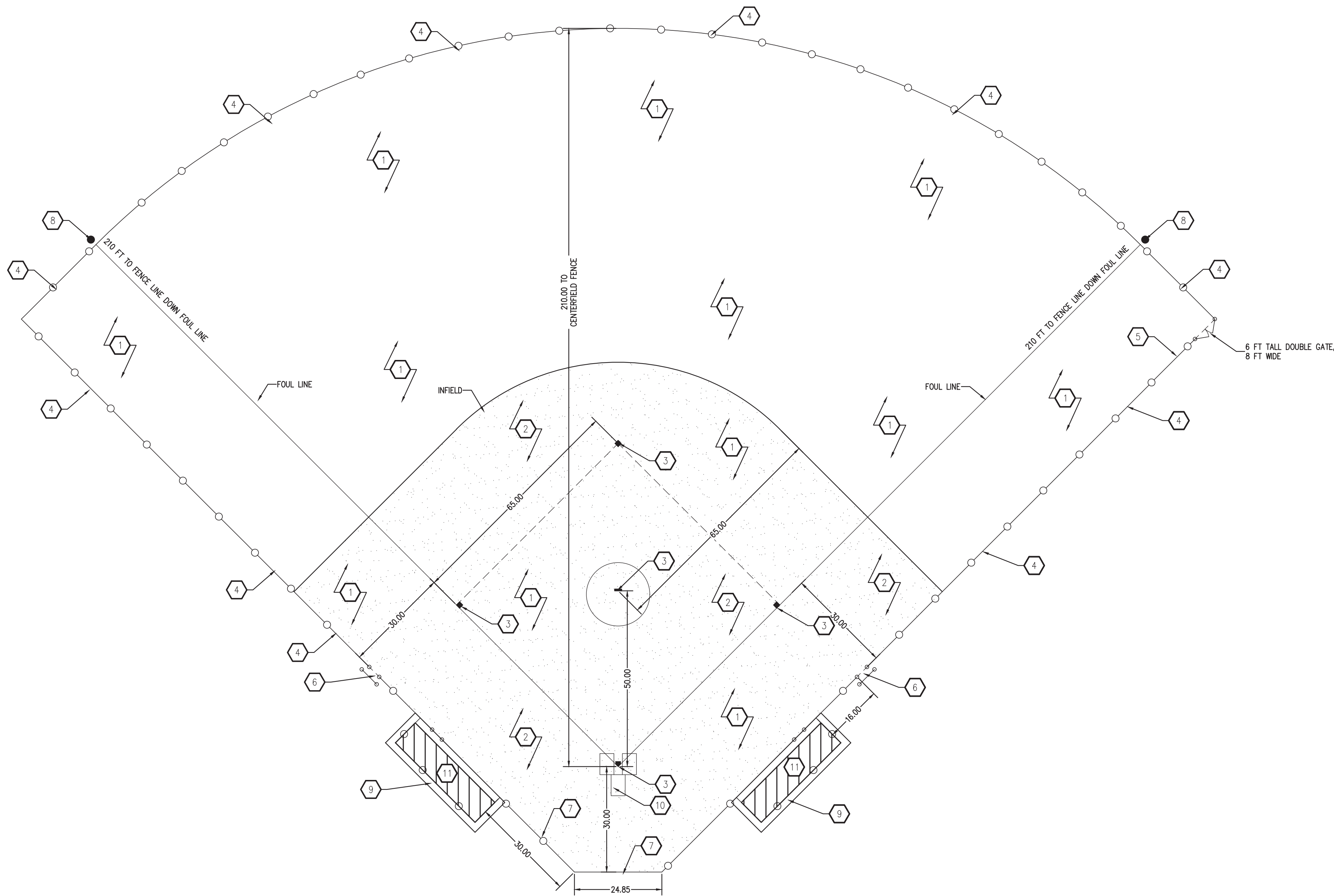
340 FT FIELD

C4.3

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3. PROPOSED BASES AND PLATES. SEE DETAIL SHEET.
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10. PROPOSED SOFTBALL BATTERS AND CATCHERS BOX. SEE DETAIL.

BID ALTERNATE #1

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ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY

210' FIELD LAYOUT
SCALE: 1"=20'-0"

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APPROVED	ADM	D	FOR CONSTRUCTION	05.26.20

210 FT FIELD

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C4.4

