

OAK BROOK PARK DISTRICT

CENTRAL PARK IMPROVEMENTS

PROJECT TEAM

CLIENT

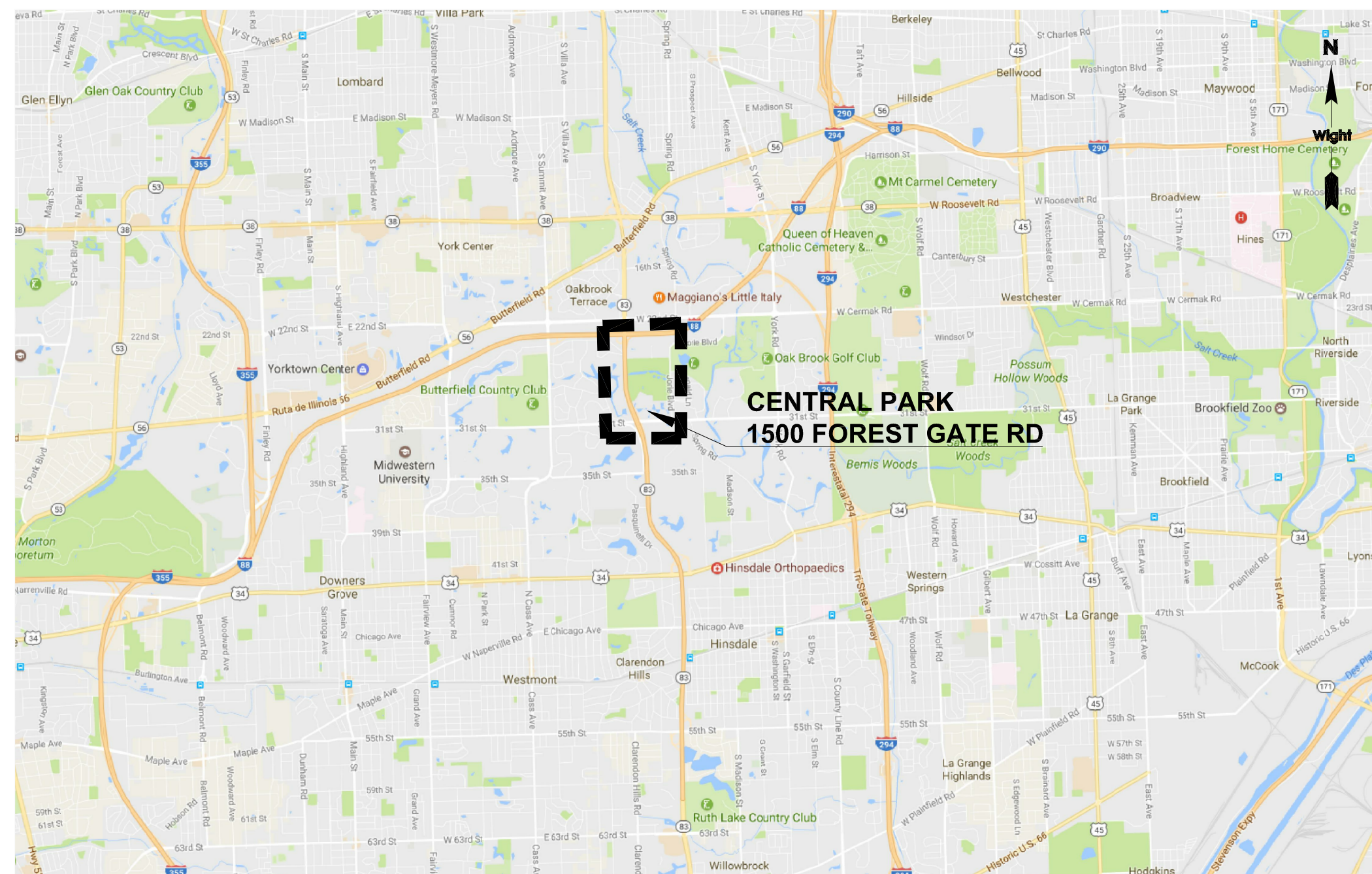
OAK BROOK PARK DISTRICT
1450 FOREST GATE ROAD
OAK BROOK, IL 60523
PHONE: (630)645-9535
CONTACT: LAURE KOSEY

CIVIL ENGINEER:

WIGHT & COMPANY
2500 NORTH FRONTAGE
DARIEN IL 60561
PHONE: (630)969-7000
FAX: (630)969-7979
CONTACT: SHAWN BENSON
Design Firm Registration #184-000451

LANDSCAPE ARCHITECT:

WIGHT & COMPANY
2500 NORTH FRONTAGE
DARIEN IL 60561
PHONE: (630)969-7000
FAX: (630)969-7979
CONTACT: ROBERT LJAMS
Design Firm Registration #184-000451



LOCATION PLAN

BENCHMARKS

SOURCE BENCHMARK:

BRONZE DISK MONUMENT IN CONCRETE BASE STAMPED "DUPAGE COUNTY MAPS AND PLATS" AS DESCRIBED FROM DUPAGE COUNTY BENCHMARK YK35001.
PUBLISHED ELEVATION = 719.5371 (NGVD 29)
OBSERVED ELEVATION = 719.35 (NAVD 88) AS DESCRIBED FROM NGS DATA SHEET DESIGNATED AS YK35001 (DK3131).

SITE BENCHMARKS:

SITE BENCHMARK NO. 1:

NORTHWEST BOLT OF THE FIRE HYDRANT LOCATED ON THE NORTH SIDE OF THE NORTHEAST PARKING LOT AT CENTRAL PARK IN OAK BROOK, ILLINOIS.
ELEVATION = 666.64

SITE BENCHMARK NO. 2:

CROSS CUT ON BACK OF CURB LOCATED ON THE WEST SIDE OF THE ENTRANCE TO CENTRAL PARK IN OAK BROOK, ILLINOIS APPROXIMATELY 200 FEET NORTH OF FOREST GATE ROAD.
ELEVATION = 689.33 DATUM: NAVD88

SITE BENCHMARK NO. 3:

CROSS CUT ON BACK OF CURB LOCATED ON THE SOUTH SIDE OF THE NORTHEAST PARKING LOT AT CENTRAL PARK IN OAK BROOK, ILLINOIS APPROXIMATELY 600 FEET NORTH OF FOREST GATE ROAD.
ELEVATION = 665.95 DATUM: NAVD88

TOPOGRAPHIC FIELD WORK COMPLETED ON SEPTEMBER 8, 2011

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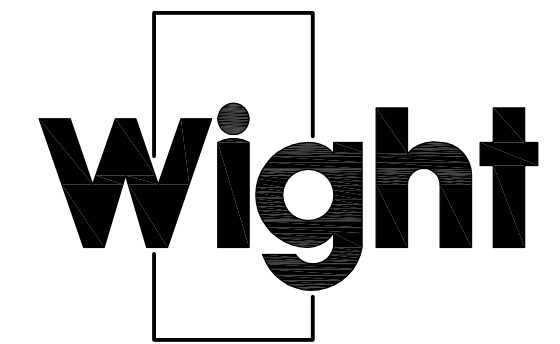
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FOR UNDERGROUND UTILITY LOCATIONS,
CALL J.U.L.I.E. TOLL FREE TEL. 1-800-892-0123

JULIE SUBURBS & DIGG CHICAGO

- YELLOW _____ GAS
- RED _____ ELECTRICAL
- ORANGE _____ PHONE / TV COMMUNICATION
- BLUE _____ WATER
- GREEN _____ SEWERS
- WHITE _____ SAFE TO DIG



Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

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1450 Forest Gate Road
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ISSUED FOR BID 12-6-11
REV DESCRIPTION DATE

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
OAK BROOK, IL 60523

COVER SHEET

Project Number:
5646-03
Drawn By:

Sheet:

SD0.00

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GENERAL

- EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY MANHARD CONSULTING, LTD. UNDERGROUND UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
- STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED TO ORIGINAL CONDITIONS BY CONTRACTOR. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)", HEREIN AFTER REFERRED TO AS 'STANDARD SPECIFICATIONS'.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF OAK BROOK, ILLINOIS AND THE ISPE STANDARDS.
- ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR.
- PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED HARD SURFACE OR TOPSOIL THICKNESS.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF OAK BROOK, ILLINOIS (815) 886-5010 AT LEAST 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- SHOULD THE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CONSTRUCTION MANAGER FOR INSTRUCTIONS. SHOULD THE ENGINEER INSTRUCT THAT DAMAGED FIELD TILES BE RESTORED TO THEIR ORIGINAL CONDITION, THAT REPAIR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE LOCATION OF FOUND DRAINAGE TILE SHALL BE INDICATED ON THE RECORD DRAWINGS.
- ALL TRENCHES WITHIN 2 FEET OF AN EXISTING OR PROPOSED SIDEWALK, CURB, PAVEMENT OR DRIVEWAY ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE ISPE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.I.E. AT 1-800-892-0123 OR 811. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
- ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN.
- WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION. CONCRETE SHALL BE CUT AT A CONTROL JOINT.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
- "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
- ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
- IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION AND/OR ELEVATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT SO THAT THE CONFLICT MAY BE RESOLVED.
- EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED THROUGHOUT DURATION OF PROJECT. VEHICLE ACCESS IS TO BE CLEARLY MARKED. ANY ALTERATION OF EMERGENCY VEHICLE ROUTE OR ACCESS IS TO BE BROUGHT TO THE ATTENTION OF THE VILLAGE OF OAK BROOK, ILLINOIS NO LESS THAN 24 HOURS PRIOR TO ALTERATION.
- VILLAGE CONTACT:
Mr. ROBERT L. KALLIEN, JR., AICP
DIRECTOR
1200 OAK BROOK ROAD
OAK BROOK, IL 60523-2255
PHONE: (630) 368-5104
FAX: (630) 368-5105
EMAIL: RKALLIEN@OAK-BROOK.ORG

VILLAGE CONTACT:
Mr. JAMES L. PATTERSON, PE
CIVIL ENGINEER
1431 OPUS PLACE, SUITE 400
DOWNERS GROVE, IL 60515
PHONE: (630) 724-3293
FAX: (630) 724-3201
EMAIL: JPATTERSON@BURNSMCD.COM

STORM SEWER

- REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76, SHALL BE A MINIMUM OF CLASS III AND JOINTS SHALL CONFORM TO ASTM C-361. POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM F-679 EXCEPT THAT IT SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454 OR 12364-C, AS DEFINED IN ASTM D-1784; MINIMUM ACCEPTABLE SDR SHALL BE 26 FOR ALL PVC PIPE.
- ALL STORM STRUCTURES, STORM PIPES, AND DETENTION BASINS IN THE PROJECT AREA LIMITS ARE TO BE CLEANED & RODDED PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SEDIMENT FROM THE STORM SEWER STRUCTURES AND PIPES DURING CONSTRUCTION AND UNTIL 90% OF VEGETATION IS ESTABLISHED. COST FOR RODDING, CLEANING, VACUUMING, STRUCTURES, PIPES, ETC. SHALL BE PART OF THE CONSTRUCTION CONTRACT.
- MANHOLES, CATCH BASINS, INLETS, BEDDING AND TRENCH BACKFILL SHALL CONFORM TO THE CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS, ISPE SPECIFICATIONS AND MWRD REQUIREMENTS.

EARTHWORK

- ALL AREAS SHALL BE CLEARED AND TILLED IN PREPARATION TO RECEIVE SEED. DISTURBED AREAS THAT ARE TO BE RESTORED TO A VEGETATED CONDITION SHALL RECEIVE A MINIMUM OF 6 INCHES OF TOPSOIL OR AS NOTED ON THE PLAN. AT LEAST THE TOP 2 INCHES OF TOPSOIL SHALL BE WITHOUT LUMPS, STONES, OR FOREIGN MATTER LARGER THAN 1 INCH DIAMETER.
- THE CONTRACTOR SHALL APPLY FERTILIZER, SEED, EROSION CONTROL BLANKETS, AND SOD TO ALL DISTURBED AREAS AND AS NOTED ON THE CONSTRUCTION DRAWINGS. FERTILIZER AND SEED QUANTITIES AND SEEDING PROCEDURES SHALL CONFORM TO SECTION 329200 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR, AND OWNER WILL INSPECT THE SEEDED AREAS 60 DAYS AFTER SEEDING. TO RECEIVE FINAL ACCEPTANCE, SEEDED AREAS MUST SUPPORT DENSE, THRIVING GRASSES SUFFICIENT TO PROTECT THE SOIL FROM EROSION IN A MODERATE RAINFALL. AREAS THAT, IN THE OPINION OF THE OWNER, DO NOT MEET THIS REQUIREMENT, MUST BE IMMEDIATELY RESEED. REINSPECTION TO OCCUR AFTER 30 DAYS AND ACCEPTANCE CRITERIA WILL REMAIN THE SAME. REINSPECTION SHALL OCCUR AFTER 60 DAYS. ALL WATERING, RESEEDING AND MAINTENANCE IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE.
- TOPSOIL FOR RESTORATION AREAS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS. TOPSOIL CAN BE SALVAGED FROM THE SITE AND STOCKPILED FOR REUSE WHEN ALL WORK IS COMPLETED. ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE JOB SHALL BE OBTAINED FROM OFF-SITE SOURCES AT THE CONTRACTOR'S EXPENSE. SALVAGED TOPSOIL SHALL BE SUBJECT TO THE LANDSCAPE ARCHITECT'S APPROVAL AND WILL BE REJECTED IF NOT CLEAN, UNCONTAMINATED MATERIAL.
- SPECIAL EXCAVATION

WORK UNDER THIS ITEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.

SPECIAL EXCAVATION SHALL INCLUDE THE SATISFACTORY REMOVAL AND OFF-SITE DISPOSAL OF ALL UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION.

AFTER EXCAVATING TO THE REQUIRED SUBGRADE LEVEL, THE ENGINEER SHALL INSPECT THE SUBGRADE. PRIOR TO PLACING ANY PAVEMENT SECTION MATERIAL THE EXCAVATION LEVEL OR SUBGRADE LEVEL SHALL BE COMPACTED AND, WHERE POSSIBLE, PROOF ROLLED WITH A 40,000 LB TANDEM AXLE TRUCK BY MAKING AT LEAST 4 PASSES. THE COMPACTING AND PROOF ROLLING WILL DETECT SOFT OR UNSTABLE POCKETS OF MATERIAL WHICH SHALL BE REMOVED AND REPLACED AS HEREIN SPECIFIED. THE COMPACTING AND PROOF ROLLING SHALL BE INCIDENTAL TO THE WORK AND NO ADDITIONAL COMPENSATION WILL BE PAID.

IF THE EXISTING SUBGRADE SOIL IS NOT SUITABLE FOR PROVIDING AN IBR SOIL SUPPORT VALUE OF 2, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE SUBGRADE SOIL BELOW THE PROPOSED SUBGRADE LEVEL TO A DEPTH AS DIRECTED BY THE ENGINEER, COMPACT AND PROOF ROLL THE EXCAVATED AREA. IF UPON PROOF ROLLING THE SUBGRADE IS STILL UNSUITABLE, ADDITIONAL EXCAVATION MAY BE REQUIRED. NO ADDITIONAL COMPENSATION WILL BE MADE REGARDLESS OF THE NUMBER OF TIMES THE AREA IS COMPACTED AND PROOF ROLLED.

CA-1 SHALL BE USED TO BRING THE SUBGRADE TO THE PROPOSED ELEVATION AS INDICATED UNDER THE ITEM POROUS GRANULAR EMBANKMENT, SUBGRADE. POROUS GRANULAR EMBANKMENT, SUBGRADE IS NOT CONSIDERED PART OF THIS ITEM.

THOSE AREAS OF SUBGRADE WHICH ARE NOT OVER EXCAVATED SHALL ALSO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

SPECIAL EXCAVATION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER WILL BE MEASURED FOR PAYMENT IN PLACE AND THE VOLUME IN CUBIC YARDS COMPUTED BY THE METHOD OF AVERAGE END AREAS. EXCAVATION IN EXCESS OF THAT AUTHORIZED SHALL NOT BE MEASURED FOR PAYMENT.

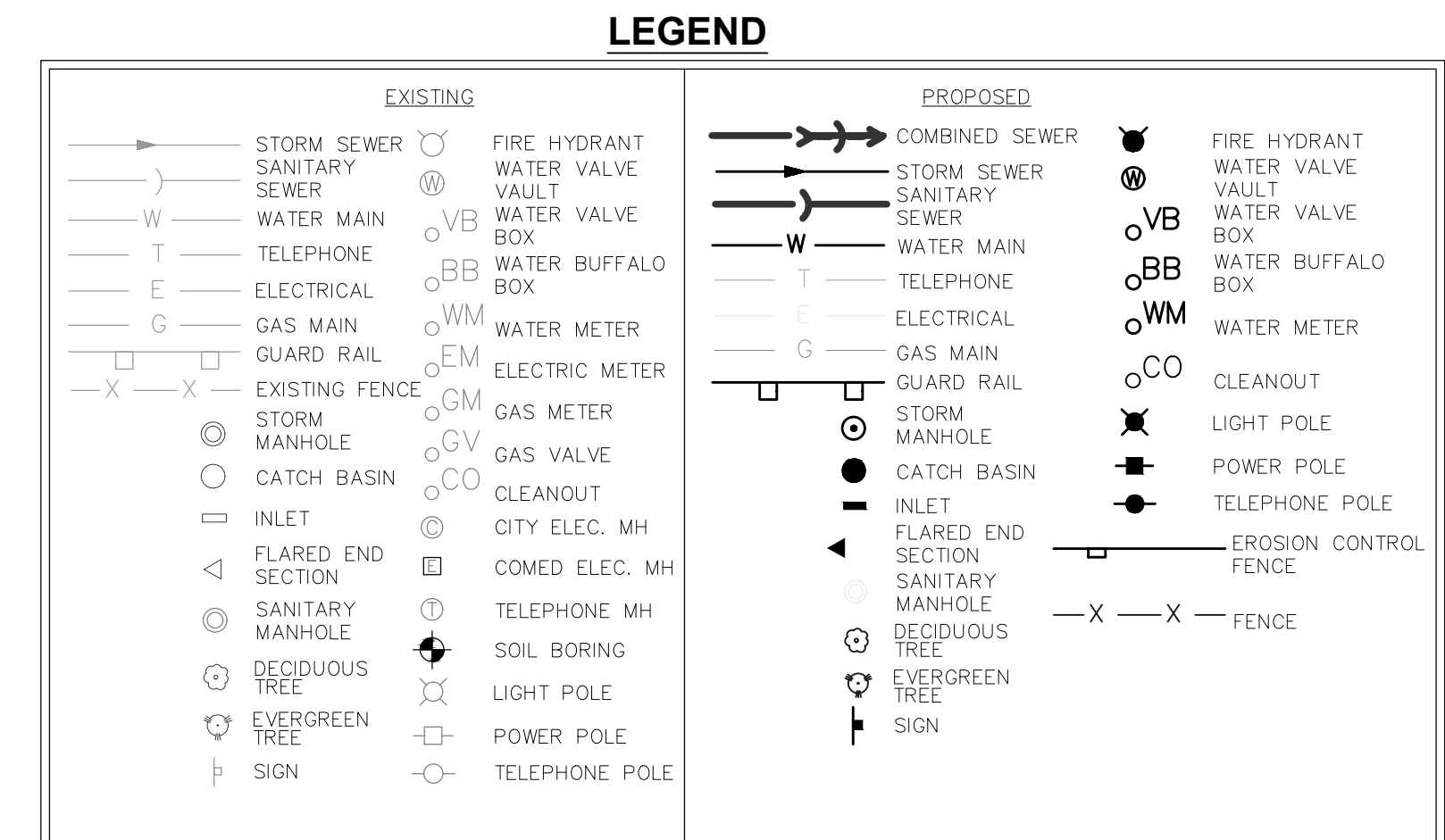
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT CUBIC YARD FOR SPECIAL EXCAVATION, WHICH PRICE SHALL INCLUDE ALL COSTS ASSOCIATED WITH UNSUITABLE MATERIAL REMOVAL AND LEGAL DISPOSAL, GRADING COMPACTING AND PROOF ROLLING OF SUBGRADE.

TRAFFIC CONTROL

- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701101) AT ALL TIMES WHEN ANY VEHICLES, EQUIPMENT, WORKER, OR ACTIVITY ENCR OACH THE PUBLIC STREET FROM 15 FEET TO THE EDGE OF PAVEMENT. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (IDOT STANDARD 701502) WHEN ACTIVITY ENCR OACHES THE EDGE OF PAVEMENT FOR THIS ROAD.
- IF THE OPERATION IS 15 FEET OR MORE, OFF THE EDGE OF PAVEMENT, NO SIGNING WILL BE REQUIRED UNLESS TWO OR MORE VEHICLES CROSS THE 15 FOOT CLEAR ZONE IN ONE HOUR
- WHEN WORKING WITHIN 2 FEET OF THE PAVEMENT EDGE, CONES, DRUMS, OR BARRICADES SHALL BE PLACED ACCORDING TO THE STANDARD 701101 REQUIREMENTS.

CONCRETE PAVING

- ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
- SIDEWALK THICKNESS CROSS DRIVEWAYS SHALL BE A MINIMUM 8".
- THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE MORE THAN 1/4" IN WIDTH, AND SHALL BE EDGED HAVING A 1/4 INCH RADIUS. NO SLAB SHALL BE LONGER THAN 6 FEET NOR LESS THAN 4 FEET ON ANY ONE SIDE.



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Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

OAK BROOK PARK DISTRICT
1450 Forest Gate Road
Oak Brook, IL 60523

ISSUED FOR BID 12-6-17
REV DESCRIPTION DATE

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
OAK BROOK, IL 60523

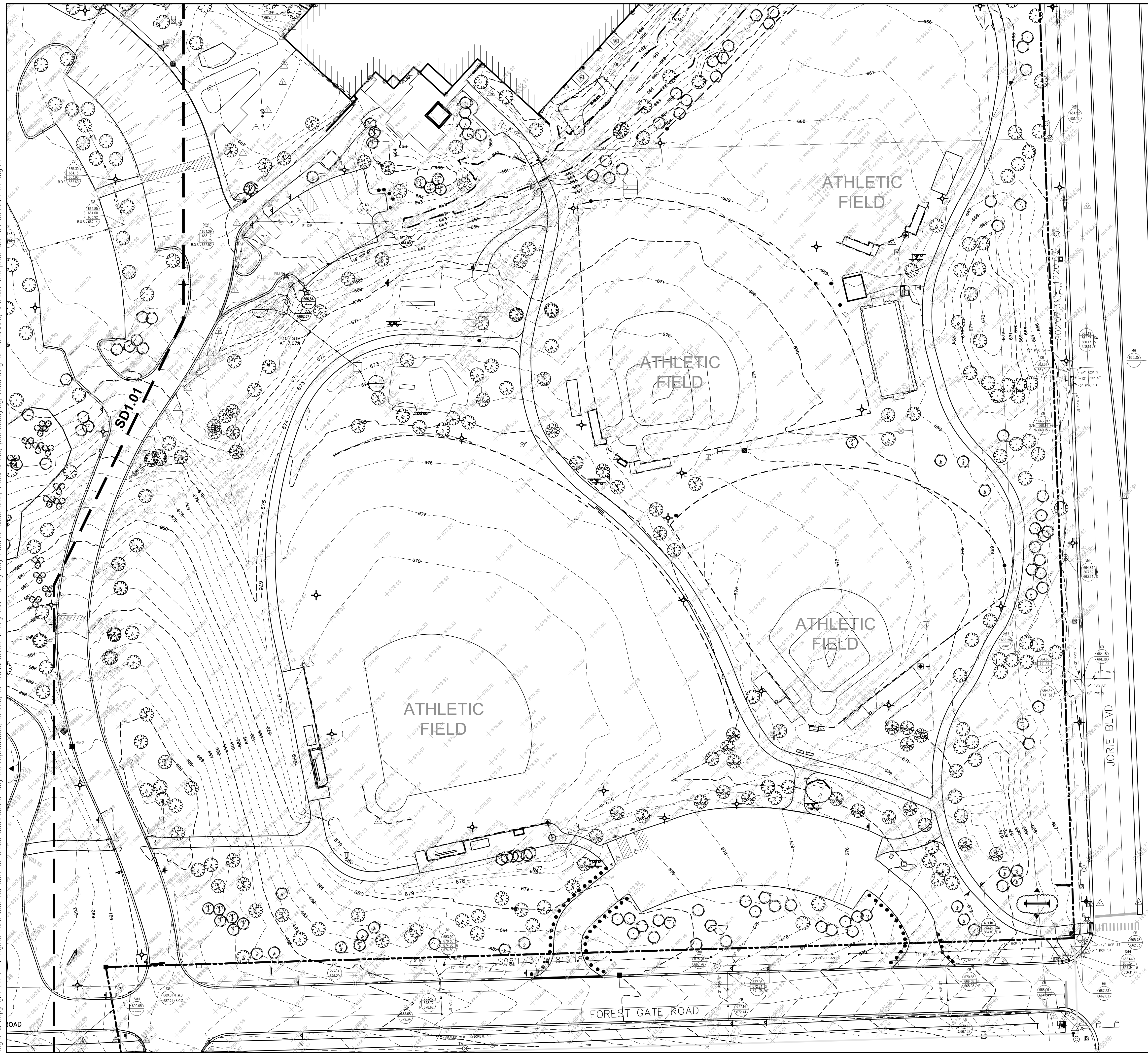
GENERAL NOTES

Project Number:
5646-03
Drawn By:

Sheet:

SD0.01

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EXISTING CONDITIONS NOTES:

1. BASEMAP INFORMATION OBTAINED FROM PLANS PREPARED BY MANHARD CONSULTING.
2. CONTRACTOR TO VERIFY SITE CONDITIONS, EXISTING ON-SITE UTILITIES, AND INFORMATION ON DRAWINGS. PROMPTLY REPORT ANY CONCEALED CONDITIONS, MISTAKES, DISCREPANCIES OR DEVIATIONS FROM THE INFORMATION SHOWN IN THE CONTRACT DOCUMENTS. THE OWNER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES OR EXTRA WORK REQUIRED TO CORRECT UNREPORTED DISCREPANCIES.
3. SECURE AND PAY FOR PERMITS, FEES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION OF THIS WORK. COMPLY WITH CODES APPLICABLE TO THIS WORK.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL CONDITIONS, STANDARDS AND NOTES.
5. CONSTRUCTION MUST BE PERFORMED WITHIN THE CONFINES OF THE EXISTING CONDITIONS. ACCESS TO THE PROJECT SCOPE AREA WILL BE FROM THE NORTH EAST PARKING LOT ON THE NORTH END AND THE SOUTH WEST PARKING LOT ENTRANCE ON THE SOUTH END.



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

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 1450 Forest Gate Road
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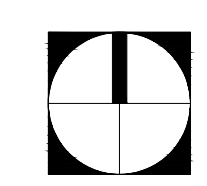
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EXISTING CONDITIONS PLAN

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 5646-03
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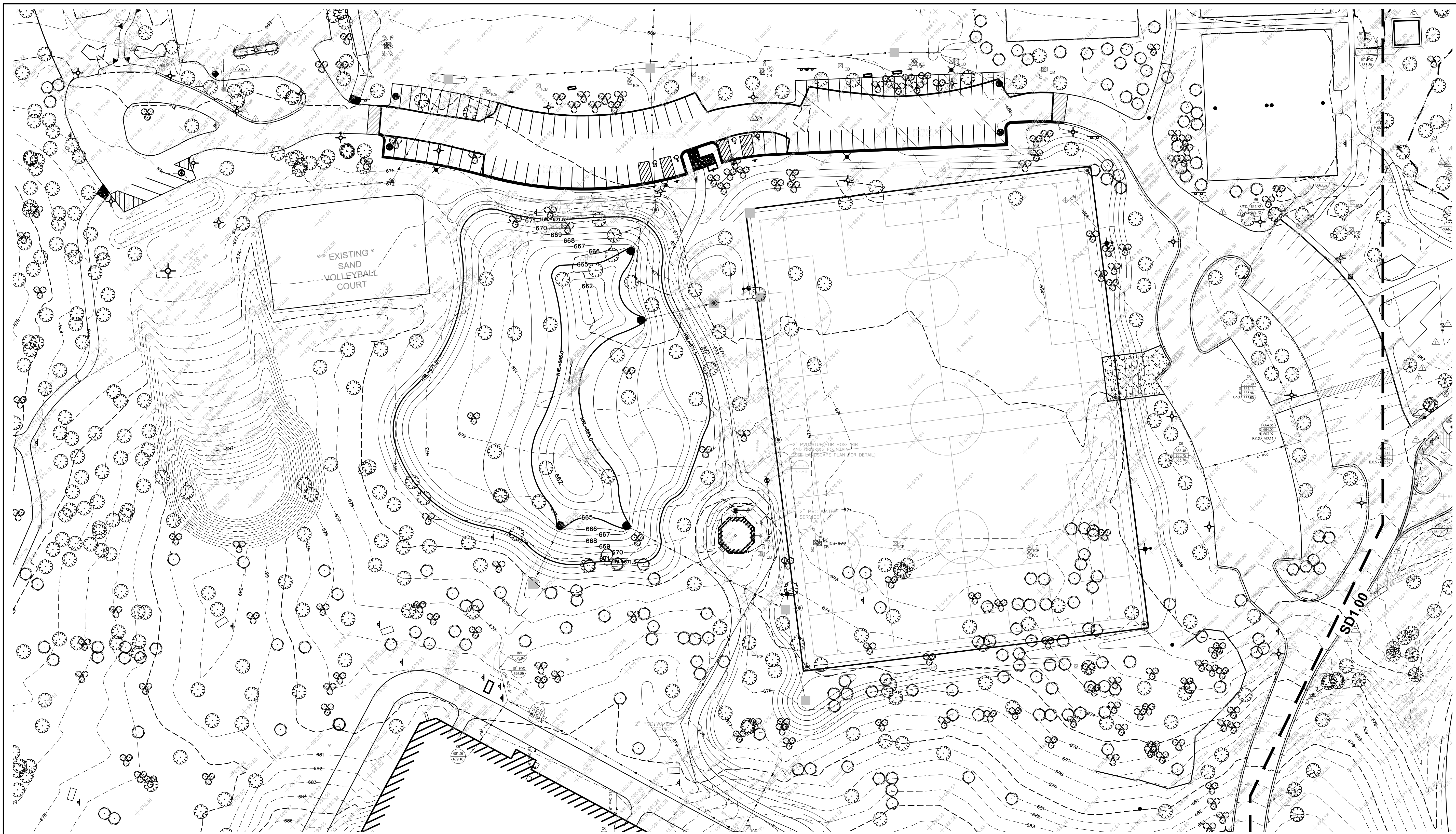
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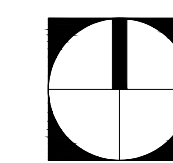
SD1.00

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wightco.com
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F 630.969.7979

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1500 FOREST GATE ROAD
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EXISTING CONDITIONS PLAN

Project Number:
5646-03

Drawn By:

Sheet:

SD1.01

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DEMOLITION NOTES:

- CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING DEMOLITION & CONSTRUCTION ACTIVITIES, WHETHER SHOWN ON THE PLANS OR NOT, UNLESS OTHERWISE SPECIFIED. ANY RELOCATION, ADJUSTMENTS, CONFLICTS, ETC. SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR TO LOCATE ALL PUBLIC & PRIVATE UTILITIES IN THE RIGHT-OF-WAY AND SITE PRIOR TO CONSTRUCTION.
- ALL EXISTING CURB TO REMAIN UNLESS OTHERWISE SPECIFIED. ANY CURB DAMAGED DURING DEMOLITION SHALL BE REPLACED IN KIND.
- ALL EXISTING SIGNS & LIGHT POLES TO REMAIN AND BE PROTECTED UNLESS OTHERWISE SPECIFIED. SIGNS SCHEDULED FOR REMOVAL WILL BE REMOVED BY THE OWNER.
- ANY UTILITY ADJUSTMENTS, CONFLICTS, RELOCATIONS, ETC. REQUIRED SHALL BE COORDINATED WITH ENGINEER AND UTILITY OWNER/PROVIDER.
- ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED.
- COORDINATE ALL ELECTRICAL, CABLE FIBER, ETC., REMOVAL/RELOCATION WITH MEP PLANS. CONTRACTOR SHALL PROTECT ALL EXISTING ELECTRIC SERVICES DURING CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
- ALL EXISTING SHRUBS, BUSHES, AND LANDSCAPING IN CONFLICT WITH SITE IMPROVEMENTS SHALL BE REMOVED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DAMAGED PUBLIC/PRIVATE PROPERTY OR ROADWAY AS A RESULT OF CONSTRUCTION ON THIS SITE. THE ROADWAY EASEMENT MUST BE RESTORED TO EXISTING OR BETTER CONDITION.
- EXISTING DRAINAGE STRUCTURES TO BE PROTECTED. SEE DETAIL.

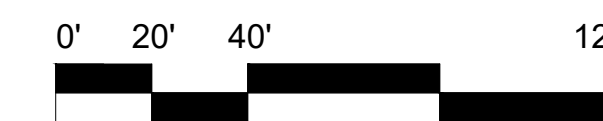
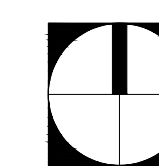
LEGEND

	ITEM REMOVAL
	LINEAR ITEM REMOVAL
	WOODCHIP SURFACING REMOVAL BY OWNER
	ASPHALT PAVEMENT REMOVAL
	INFIELD MIX, STRIP AND STOCKPILE
	STRIP TURF & TOPSOIL
	AGGREGATE SURFACE REMOVAL
	CONSTRUCTION FENCE
	TREE PROTECTION FENCE

KEY NOTES

- | | |
|----------|--|
| 1 | RELOCATE AND PROTECT BLEACHERS |
| 2 | REMOVE AND DISPOSE SPORTS LIGHTING |
| 3 | REMOVE SIGNAGE, BY OWNER |
| 4 | REMOVE AND DISPOSE SAFETY NETS AND POSTS |
| 5 | REMOVE AND SALVAGE BENCH WHERE POSSIBLE |
| 6 | REMOVE AND DISPOSE OF MANHOLE |

1" = 40'



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 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
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OAK BROOK PARK DISTRICT
 1450 Forest Gate Road
 Oak Brook, IL 60523

REV	DESCRIPTION	DATE
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

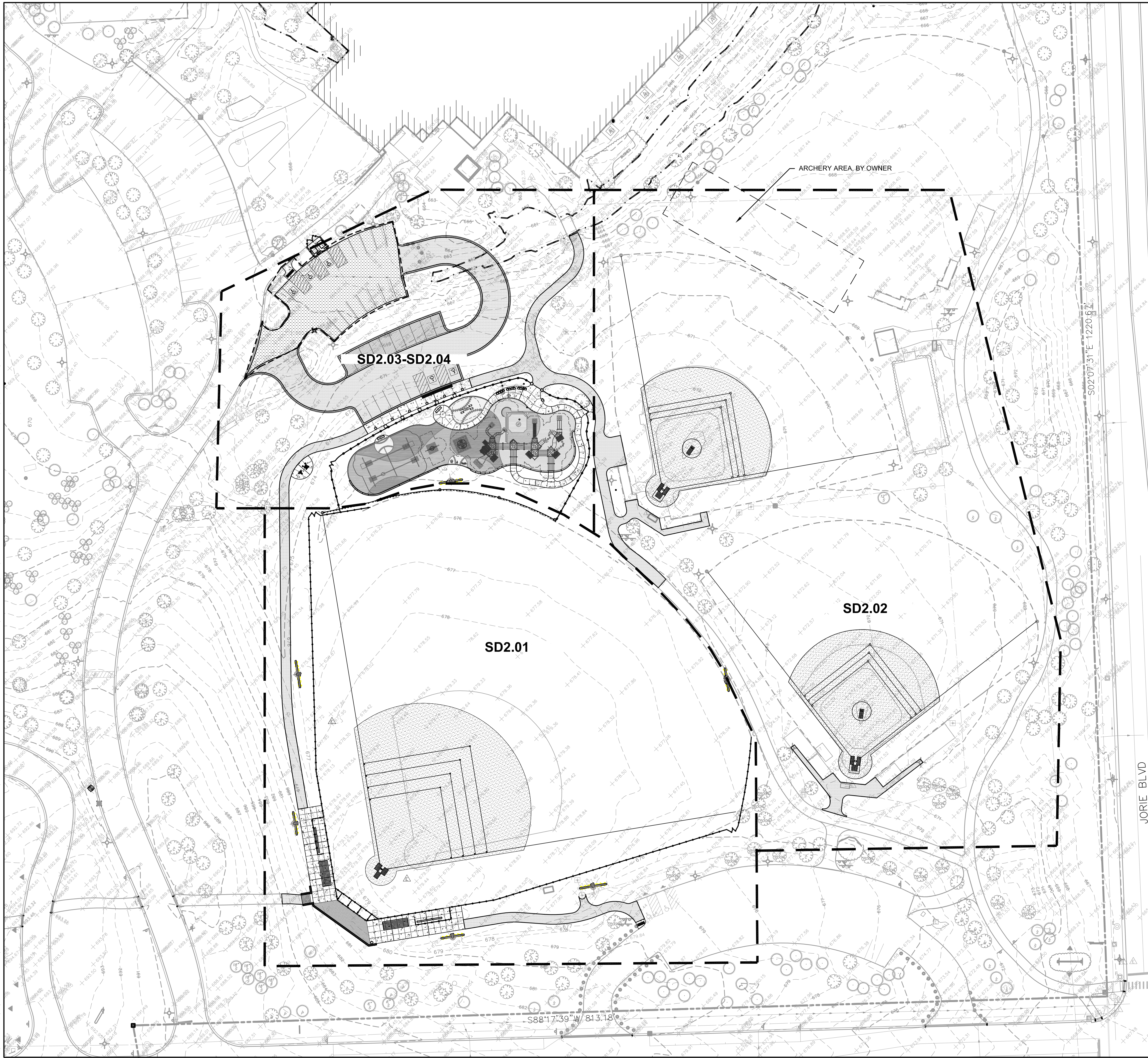
DEMOLITION PLAN

Project Number:
 5646-03
 Drawn By:

Sheet:

SD1.03

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LEGEND

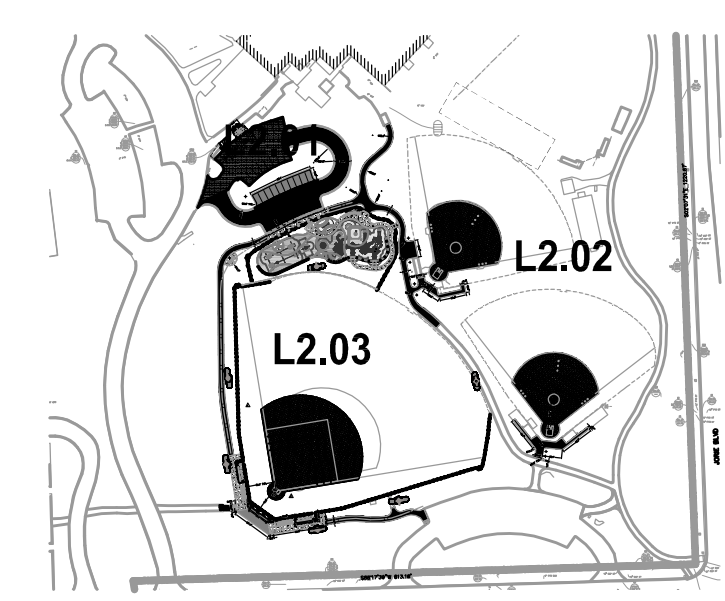
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	INFIELD MIX
	PCC CONCRETE
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	PIP PLAYGROUND SURFACING COLOR 2
	PIP PLAYGROUND SURFACING COLOR 3
	PIP PLAYGROUND SURFACING COLOR 4
	PIP PLAYGROUND SURFACING COLOR 5
	ORNAMENTAL FENCE
	CHAIN LINK FENCE

SITE LAYOUT & MATERIALS PLAN NOTES

1. ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADII DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
 2. INSTALL PLAY EQUIPMENT (PURCHASED BY OWNER) ACCORDING TO MANUFACTURER'S SPECIFICATIONS
 3. POURED IN PLACE RUBBER PLAY SURFACE BY SOFSURFACES OR APPROVED EQUAL.
- CONTACT: PAUL GOZDER
 PARKREATION
 815-892-9191
 PAUL@PARKREATION.COM

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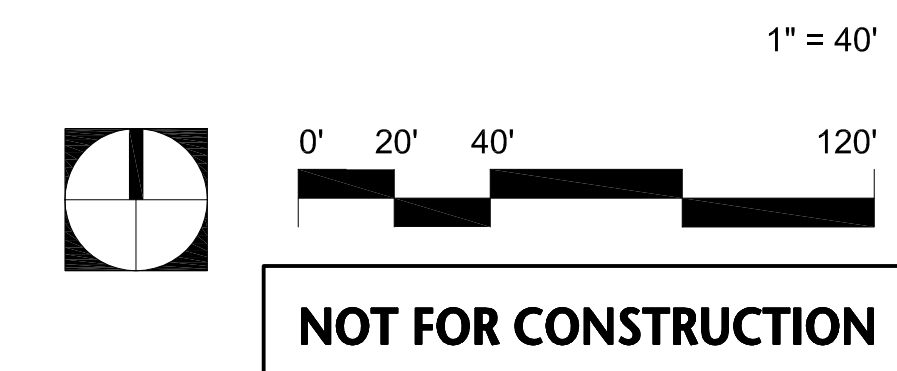
OAK BROOK PARK DISTRICT
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 Oak Brook, IL 60523



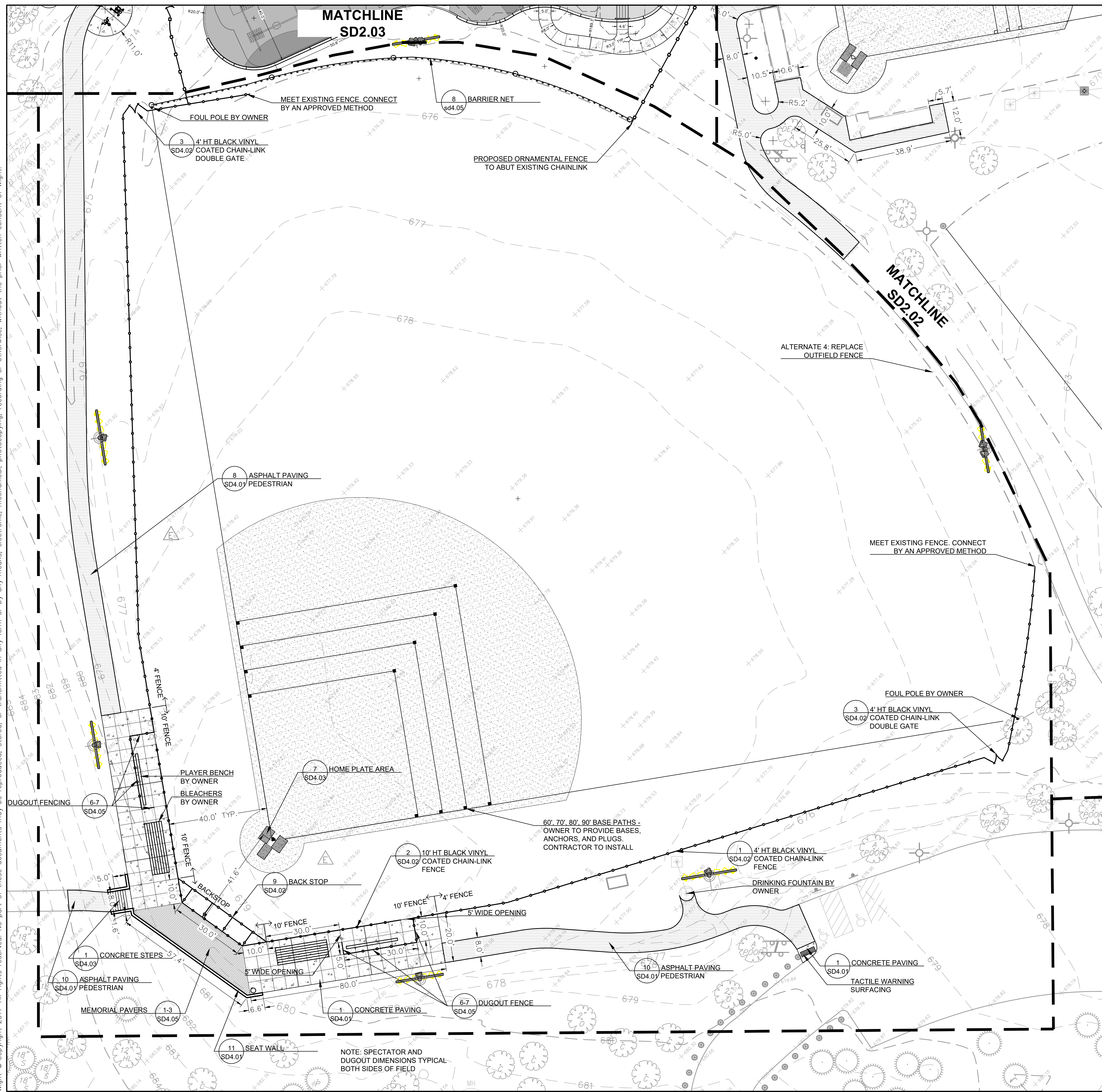
ISSUED FOR BID 12-6-17
 REV DESCRIPTION DATE
CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523
 OVERALL SITE LAYOUT AND MATERIALS PLAN

Project Number:
 5646-03
 Drawn By:
 Sheet:
SD2.00



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LEGEND

	ASPHALT
	INFIELD MIX
	PCC CONCRETE
	PIP PLAYGROUND SURFACING COLOR 1
	PIP PLAYGROUND SURFACING COLOR 2
	PIP PLAYGROUND SURFACING COLOR 3
	PIP PLAYGROUND SURFACING COLOR 4
	PIP PLAYGROUND SURFACING COLOR 5
	ORNAMENTAL FENCE
	CHAIN LINK FENCE

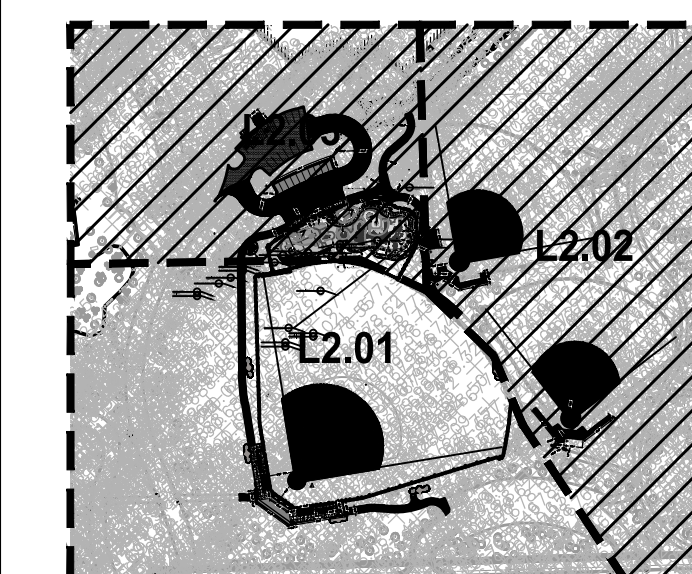
SITE LAYOUT & MATERIALS PLAN NOTES

- ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADIUS DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
- ALTERNATE 4: REPLACE OUTFIELD FENCE. REMOVE AND DISPOSE OF EXISTING FENCE INCLUDING FABRIC, FRAME, AND FOOTINGS. FURNISH AND INSTALL NEW 4' BLACK VINYL COATED CHAINLINK FENCE.

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 wightco.com
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 Darien, IL 60561
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 F 630.969.7979

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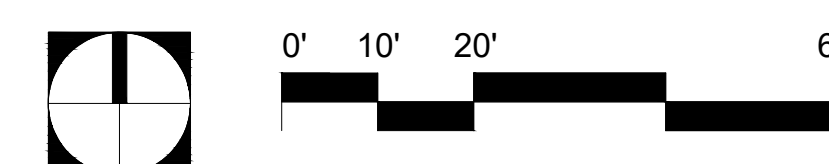
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

SITE LAYOUT AND MATERIALS PLAN

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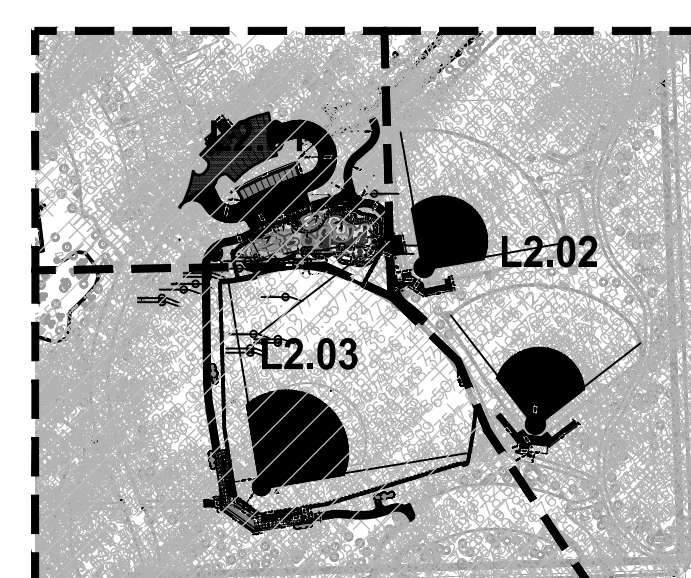
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- INFIELD MIX
- PCC CONCRETE
- PIP PLAYGROUND SURFACING COLOR 1
- PIP PLAYGROUND SURFACING COLOR 2
- PIP PLAYGROUND SURFACING COLOR 3
- PIP PLAYGROUND SURFACING COLOR 4
- PIP PLAYGROUND SURFACING COLOR 5
- ORNAMENTAL FENCE
- CHAIN LINK FENCE

SITE LAYOUT & MATERIALS PLAN NOTES

1. ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADII DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
 2. INSTALL PLAY EQUIPMENT (PURCHASED BY OWNER) ACCORDING TO MANUFACTURER'S SPECIFICATIONS
 3. POURED IN PLACE RUBBER PLAY SURFACE BY SOFSURFACES OR APPROVED EQUAL.
- CONTACT: PAUL GOZDER
 PARKREATION
 815-892-9191
 PAUL@PARKREATION.COM

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 Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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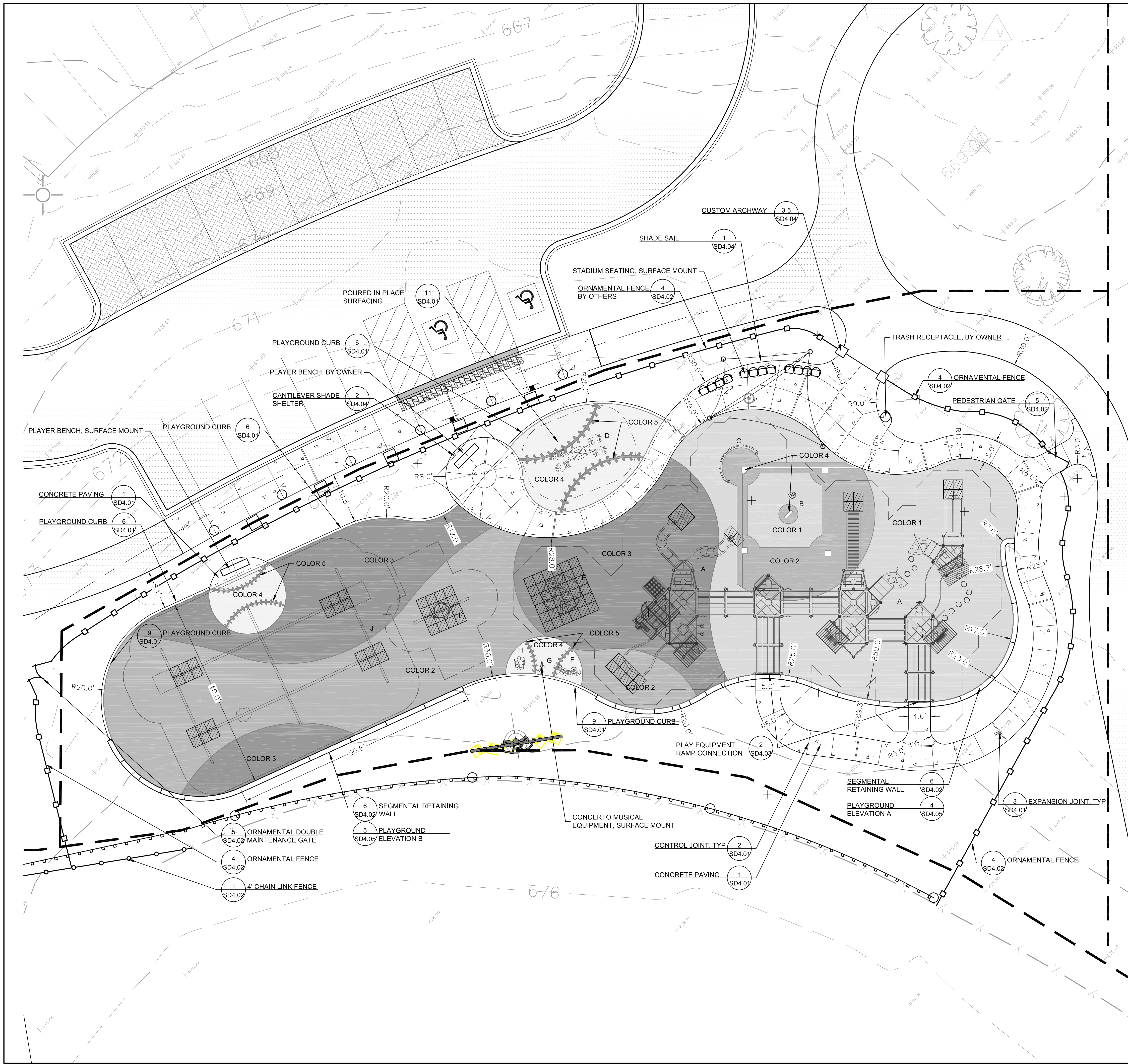
SITE LAYOUT AND MATERIALS PLAN

1" = 20'

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 Sheet:
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LEGEND

	ASPHALT
	INFIELD MIX
	PCC CONCRETE
	PIP PLAYGROUND SURFACING COLOR 1
	PIP PLAYGROUND SURFACING COLOR 2
	PIP PLAYGROUND SURFACING COLOR 3
	PIP PLAYGROUND SURFACING COLOR 4
	PIP PLAYGROUND SURFACING COLOR 5
	2' X 2' RUBBER TILE WITH CONCRETE BASE
	ORNAMENTAL FENCE
	CHAIN LINK FENCE

SITE LAYOUT & MATERIALS PLAN NOTES

1. ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADII DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
2. INSTALL PLAY EQUIPMENT (PURCHASED BY OWNER) ACCORDING TO MANUFACTURER'S SPECIFICATIONS
3. POURED IN PLACE RUBBER PLAY SURFACE BY SOFSURFACES OR APPROVED EQUAL.
4. 2'X2' RUBBER TILES BY SOFSURFACES OR APPROVED EQUAL. COLORS TO MATCH SURROUNDING SURFACE.

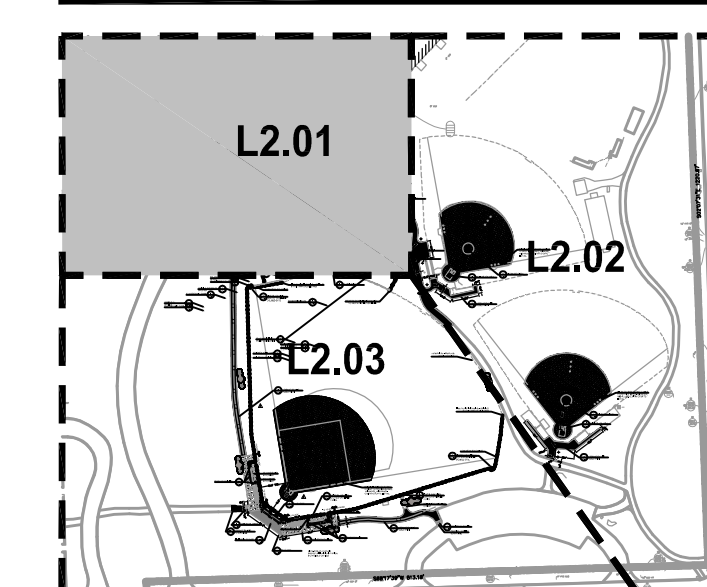
PLAY COMPONENT LEGEND

KEY	DESCRIPTION	MANUFACTURER / REP
A	COMPOSITE STRUCTURE	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
B	SOLO SPINNER	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
C	CURVED CLIMBING WALL	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
D	WEE SAW	LANDSCAPE STRUCTURES NUTOYS- KEVIN DRISCOLL PH: 708-579-9055
E	REVOLUTION SPINNER	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
F	CONCERTO VIBES	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
G	CONCERTO 5 CONGAS	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
H	CONCERTO LARGE CABASA	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191
I	ARCH SWING SINGLE ES1000	ELEPHANT PLAY ALL INCLUSIVE REC- STEWERT MACKAY PH: 573-701-9787
J	DOUBLE TRACK RIDE	LITTLE TIKES COMMERCIAL PARKKREATION- PAUL GOZDER PH: 815-892-9191



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 wightco.com
 2500 North Frontage Road
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CENTRAL PARK IMPROVEMENTS

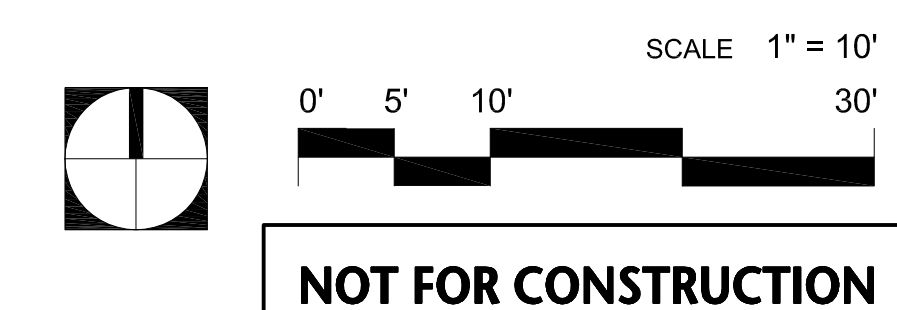
1500 FOREST GATE ROAD
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SITE LAYOUT AND MATERIALS PLAN

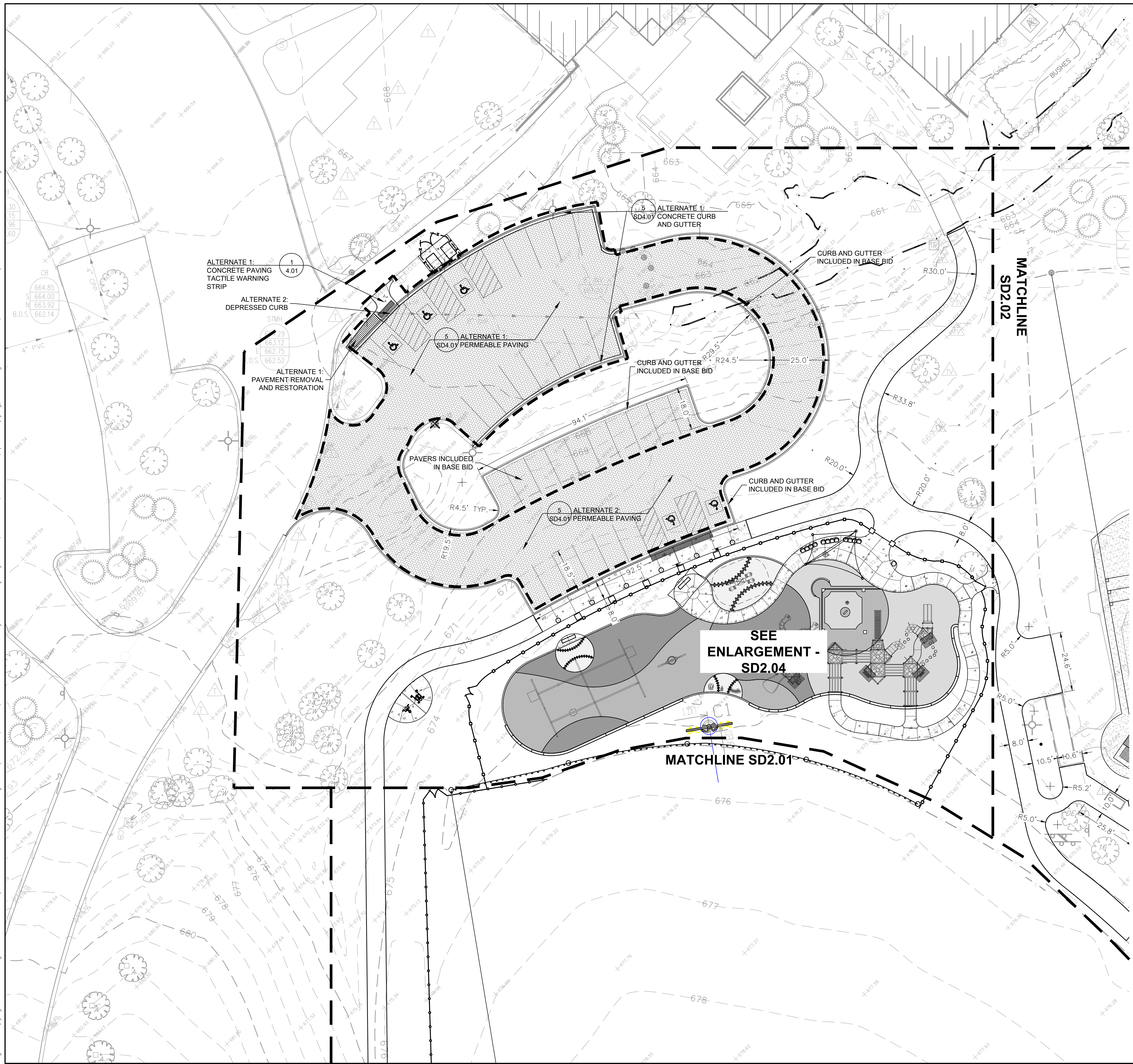
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LEGEND

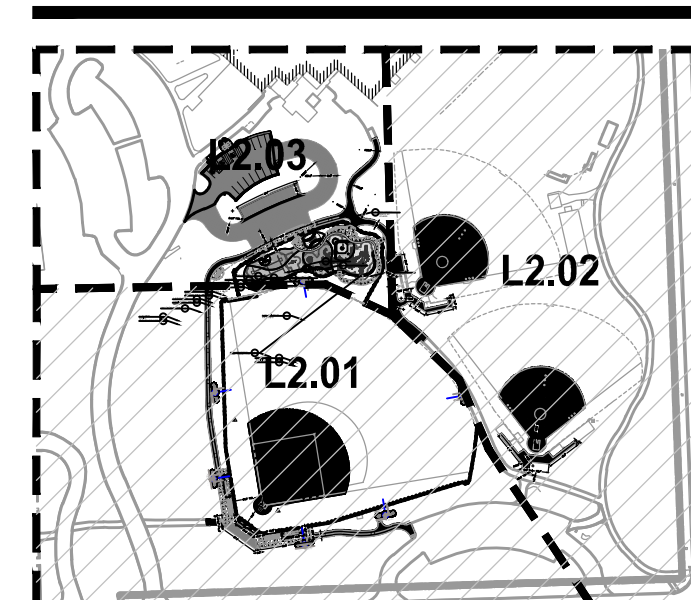
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	PCC CONCRETE
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	PIP PLAYGROUND SURFACING COLOR 2
	PIP PLAYGROUND SURFACING COLOR 3
	PIP PLAYGROUND SURFACING COLOR 4
	PIP PLAYGROUND SURFACING COLOR 5
	PIP PLAYGROUND SURFACING COLOR 6
	ORNAMENTAL FENCE
	CHAIN LINK FENCE

SITE LAYOUT & MATERIALS PLAN NOTES

1. ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADI DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
2. INSTALL PLAY EQUIPMENT(PURCHASED BY OWNER) ACCORDING TO MANUFACTURER'S SPECIFICATIONS
3. POURED IN PLACE RUBBER PLAY SURFACE BY SOFSURFACES OR APPROVED EQUAL.
4. ALTERNATE 3: PERMEABLE PAVERS FOR EXISTING AND PROPOSED LOT. EXISTING ASPHALT AND BASE TO BE REMOVED AND DISPOSED OF. BASE MAY BE REUSED ON SITE WHERE APPROPRIATE; IT MAY NOT BE REUSED BENEATH PERMEABLE PAVING. EXCAVATE AS NEEDED FOR PERMEABLE PAVERS AND BASE. INCLUDED CURB AND GUTTER WHERE SHOWN MEETING EXISTING PROFILE AND FLOW LINES. OMIT FLUSH CURB FROM BASE BID. INSTALL CONCRETE CURB RAMP AND TACTILE WARNING STRIP. STRIPE ENTIRE PARKING LOT AS SHOWN. RELOCATE ADA SIGNAGE.

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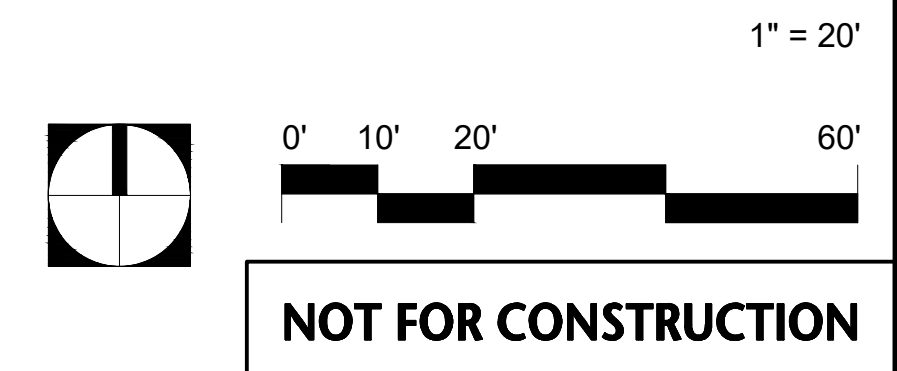


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CENTRAL PARK IMPROVEMENTS

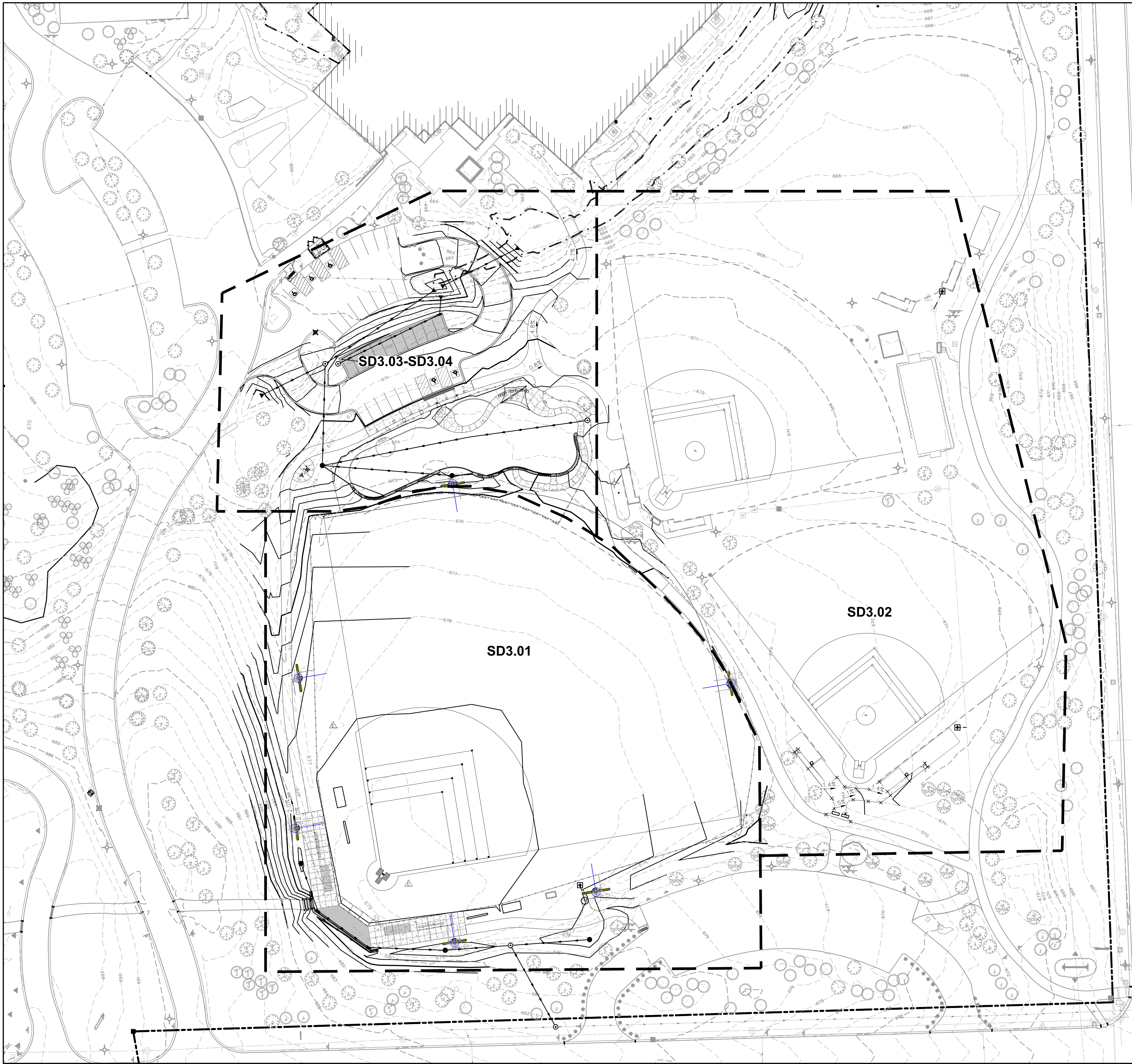
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ALTERNATE SITE LAYOUT
 AND MATERIALS PLAN



Project Number:
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 Drawn By:
 Sheet:
SD2.05

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GRADING AND DRAINAGE NOTES:

1. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FROM ALL FIELDS, WALKS AND PATHS, AND PLAYGROUND AREA.
2. CONTRACTOR TO VERIFY EXISTING INVERTS AND CONFIRM FUNCTIONALITY OF PROPOSED SYSTEM PRIOR TO INSTALLATION. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT IMMEDIATELY.
3. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. NO EQUIPMENT OR MATERIALS ARE PERMITTED WITHIN THE PROTECTION AREA. MINIMUM PROTECTION FOR TREES SHALL BE 4' CONSTRUCTION FENCE INSTALLED ALONG THE DRIP LINE OF TREES. FILL WITHIN THE DRIP LINE SHALL NOT EXCEED 6". ALL GRADING WITHIN THE DRIP LINE SHALL BE DONE BY HAND.
4. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
5. PLAY AREA SUBGRADES SHALL PITCH TO UNDERDRAIN AT 0.5%.

LEGEND

ME	MATCH EXISTING ELEVATION
LP	LOW POINT
11.77 P	TOP OF PAVEMENT ELEVATION
11.77 P 10	TOP OF CURB ELEVATION
11.77 G	GROUND ELEVATION
11.77 SW	TOP OF SIDEWALK ELEVATION
11.77 RM	RIM ELEVATION
11.77 F	TOP OF FOUNDATION ELEVATION
11.77 P 7.5	PLAYGROUND SURFACE ELEVATION
-745-	EXISTING CONTOUR LINE
-745-	PROPOSED CONTOUR LINE
2.0%	SLOPE/FLOW DIRECTION
●	CATCH BASIN
→	UNDERDRAIN
→	STORM SEWER
→	TRENCH & BACKFILL

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESSTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES. PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.

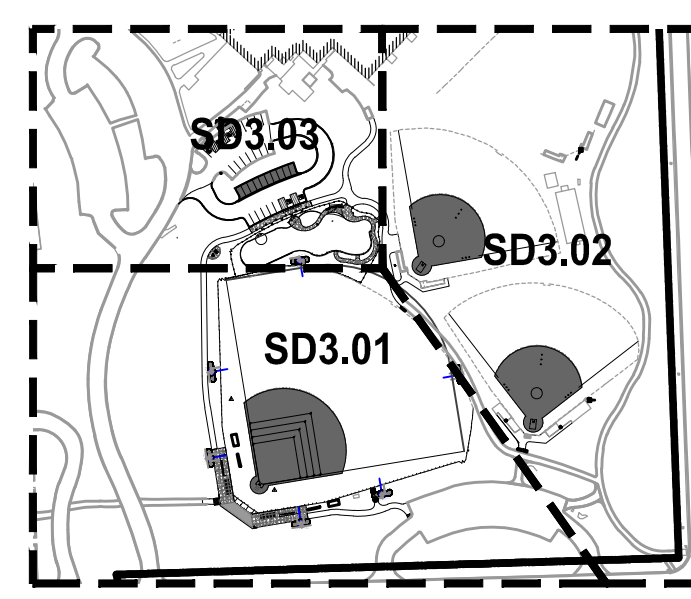
EARTHWORK NOTES:

CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT EARTHWORK REQUIREMENTS (CUT, FILL, HAUL IN/OFF, ETC.) TO BRING SITE TO FINISHED GRADE. ANY ON-SITE RE-USE OF ON-SITE DEMOLITION DEBRIS/MATERIALS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.



Wight & Company
 wightco.com
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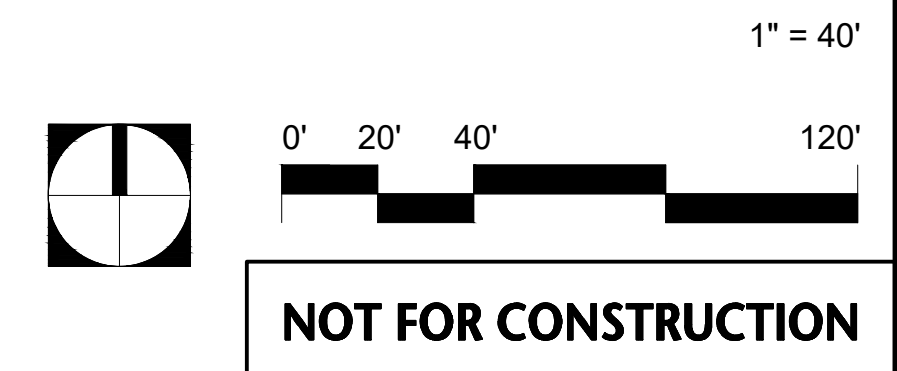
CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

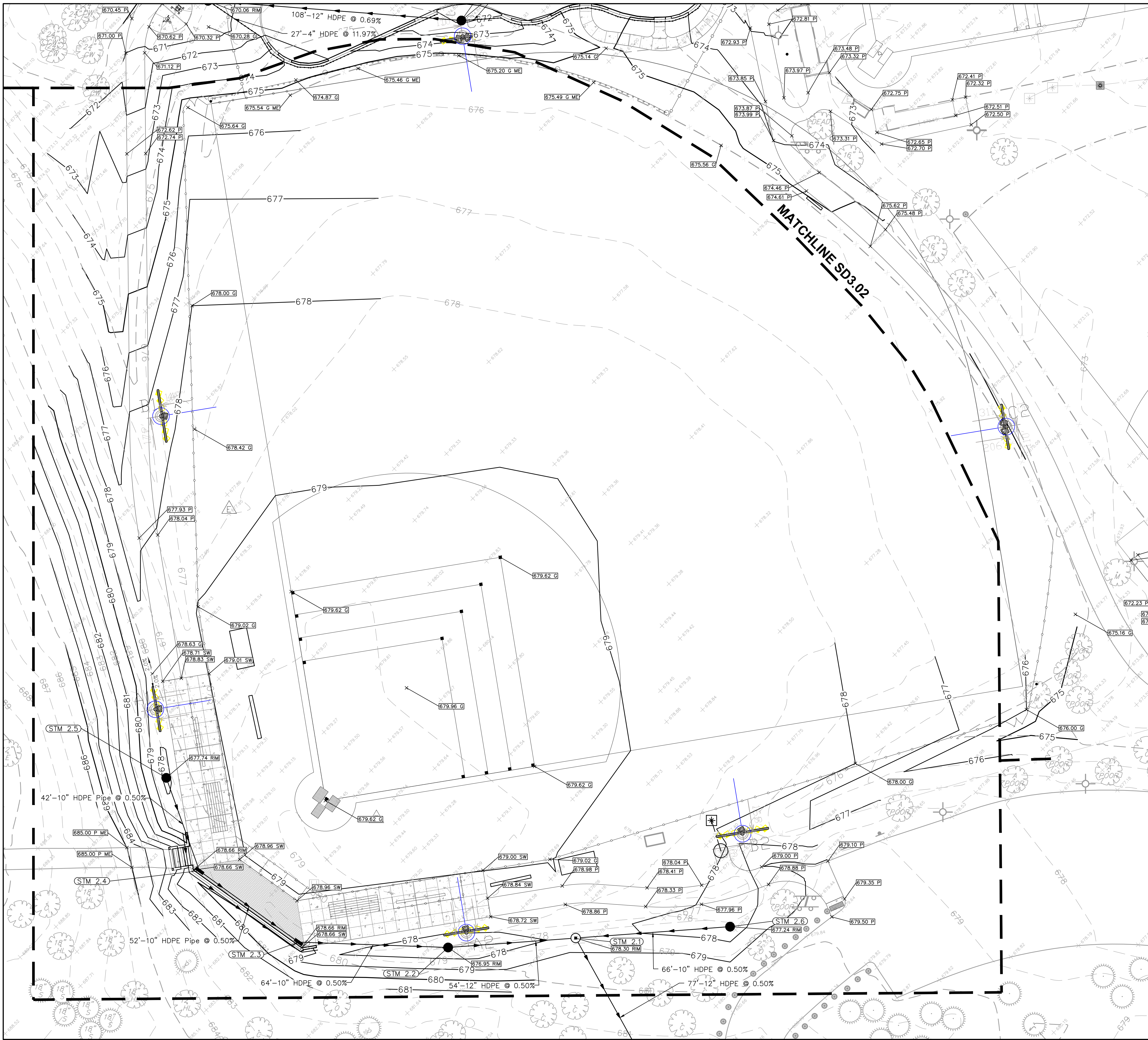
OVERALL GRADING AND DRAINAGE PLAN

Project Number:
 5646-03
 Drawn By:
 Sheet:

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GRADING AND DRAINAGE NOTES:

1. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FROM PLAYGROUND AREA
2. CONTRACTOR TO VERIFY INVERT OF EXISTING STRUCTURE AND CONFIRM FUNCTIONALITY OF PROPOSED SYSTEM PRIOR TO INSTALLATION. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT IMMEDIATELY.
3. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. MINIMUM PROTECTION FOR TREES SHALL BE 4' CONSTRUCTION FENCE INSTALLED ALONG THE DRIP LINE OF TREES.
4. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
5. PLAY AREA SUBGRADES SHALL PITCH TO UNDERTRAIN AT 0.5%.

LEGEND

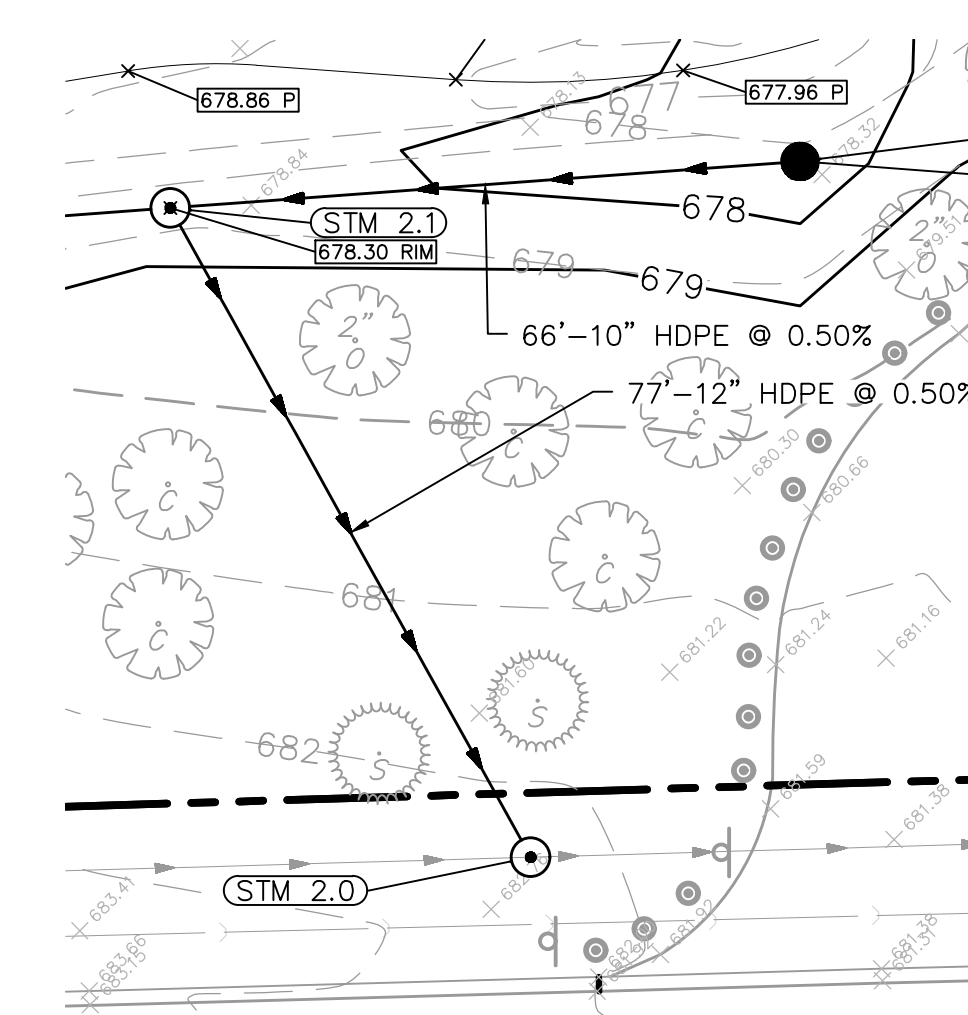
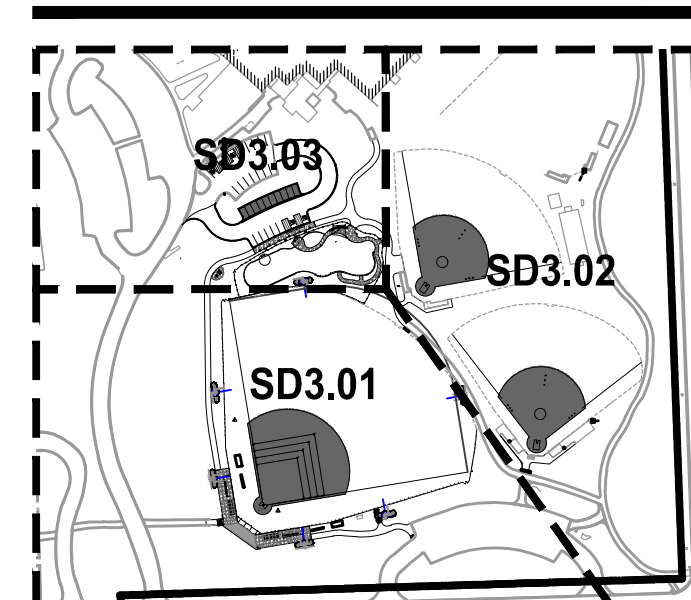
ME	MATCH EXISTING ELEVATION
LP	LOW POINT
	TOP OF PAVEMENT ELEVATION
	TOP OF CURB ELEVATION
	GROUND ELEVATION
	TOP OF SIDEWALK ELEVATION
	RIM ELEVATION
	TOP OF FOUNDATION ELEVATION
	PLAYGROUND SURFACE ELEVATION
- - - 745 - - -	EXISTING CONTOUR LINE
— 745 —	PROPOSED CONTOUR LINE
	SLOPE/FLOW DIRECTION
	CATCH BASIN
	UNDERDRAIN
	STORM SEWER
	TRENCH & BACKFILL

Structure Table		
Structure	Structure Descriptions	Structure Details
STM 2.0	4' TY. A MH TY. 1 F&G, CL	RIM = 678.00 12" NW = 673.00
STM 2.1	4' TY. A MH TY. 1 F&G, CL	RIM = 678.30 12" W = 673.39 10" E = 673.40 12" SE = 673.39
STM 2.2	3' TY. B INL TY. 1 F&G, OL	RIM = 676.95 10" W = 673.66 12" E = 673.66
STM 2.3	12" NYLOPLAST DRAIN	RIM = 678.69 10" NW = 674.00 4" SW = 677.13 10" E = 673.98
STM 2.4	12" NYLOPLAST DRAIN	RIM = 678.69 10" N = 674.26 10" SE = 674.26
STM 2.5	2' TY. A INL TY. 1 F&G, OL	RIM = 677.74 10" S = 674.47
STM 2.6	2' TY. A INL TY. 1 F&G, OL	RIM = 677.24 10" W = 673.73



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
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OAK BROOK PARK DISTRICT
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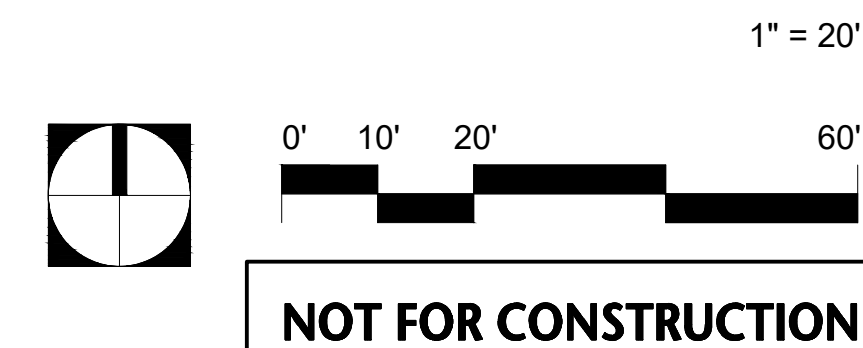
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GRADING AND DRAINAGE PLAN

Project Number:
 5646-03
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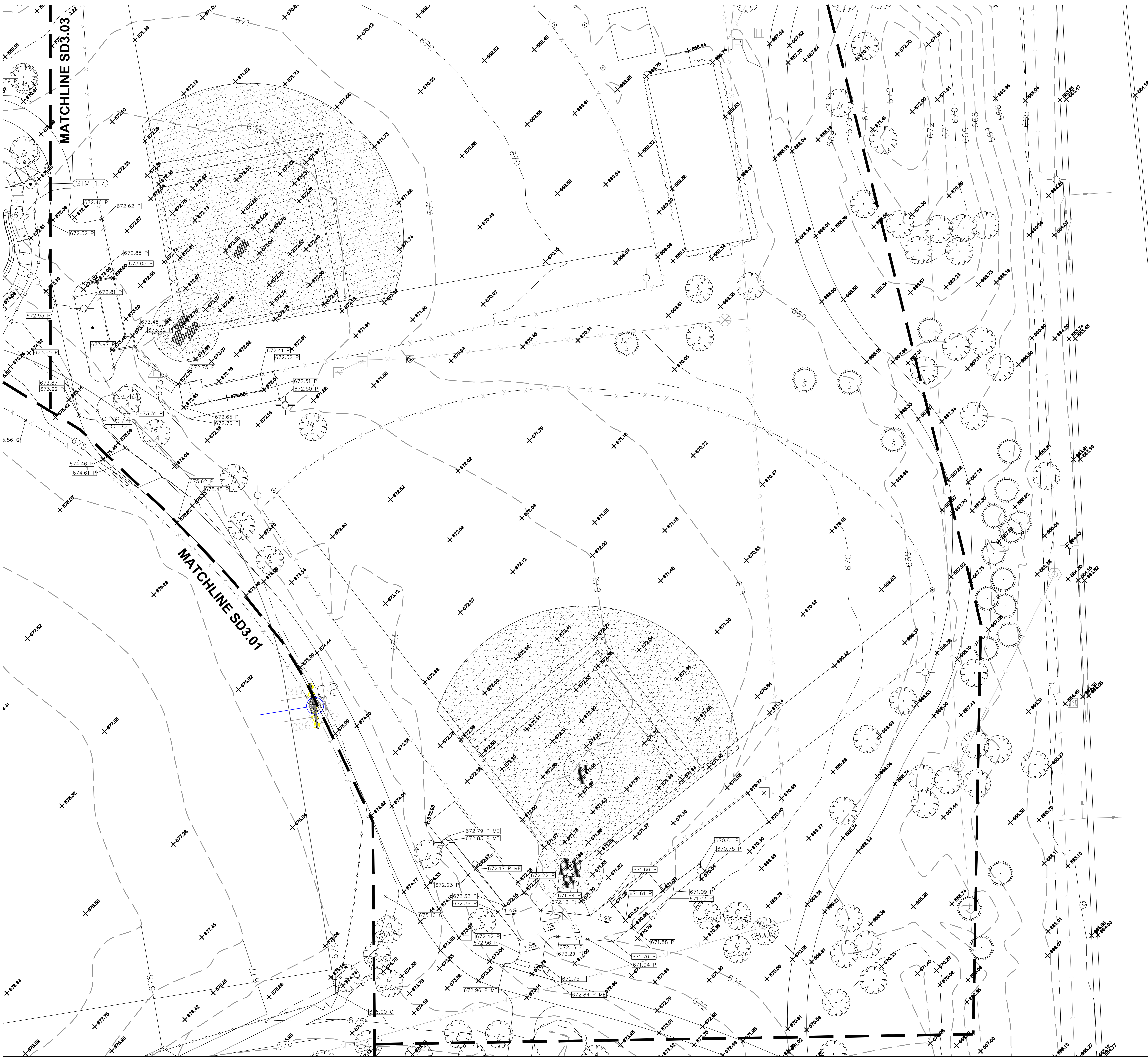
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3. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. MINIMUM PROTECTION FOR TREES SHALL BE 4' CONSTRUCTION FENCE INSTALLED ALONG THE DRIP LINE OF TREES.
4. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
5. PLAY AREA SUBGRADES SHALL PITCH TO UNDERTRAIN AT 0.5%.

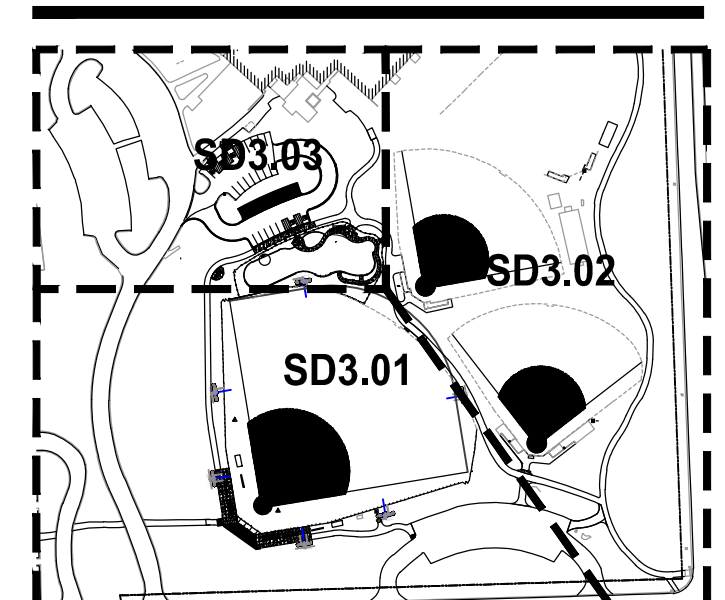
LEGEND

ME	MATCH EXISTING ELEVATION
LP	LOW POINT
11.77 P	TOP OF PAVEMENT ELEVATION
11.77 P 10	TOP OF CURB ELEVATION
11.77 G	GROUND ELEVATION
11.77 SW	TOP OF SIDEWALK ELEVATION
11.77 RM	RIM ELEVATION
11.77 T/F	TOP OF FOUNDATION ELEVATION
11.77 P/S	PLAYGROUND SURFACE ELEVATION
- - - 745 - - -	EXISTING CONTOUR LINE
— 745 —	PROPOSED CONTOUR LINE
2.0%	SLOPE/FLOW DIRECTION
●	CATCH BASIN
—○—	UNDERDRAIN
—▶—	STORM SEWER
—	TRENCH & BACKFILL



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REV	DESCRIPTION	DATE

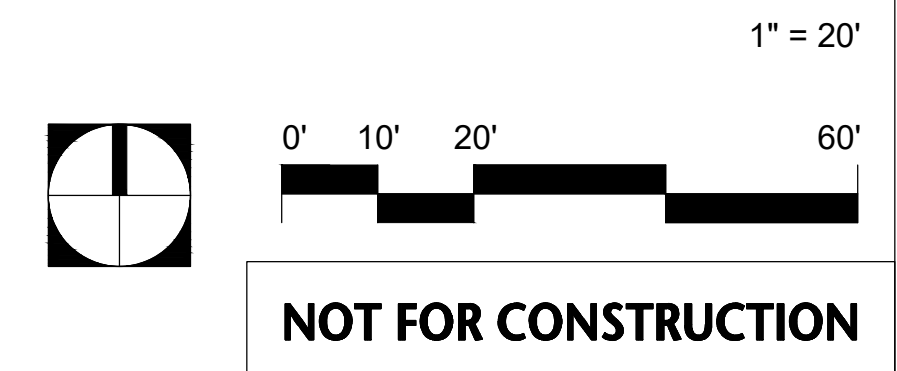
CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

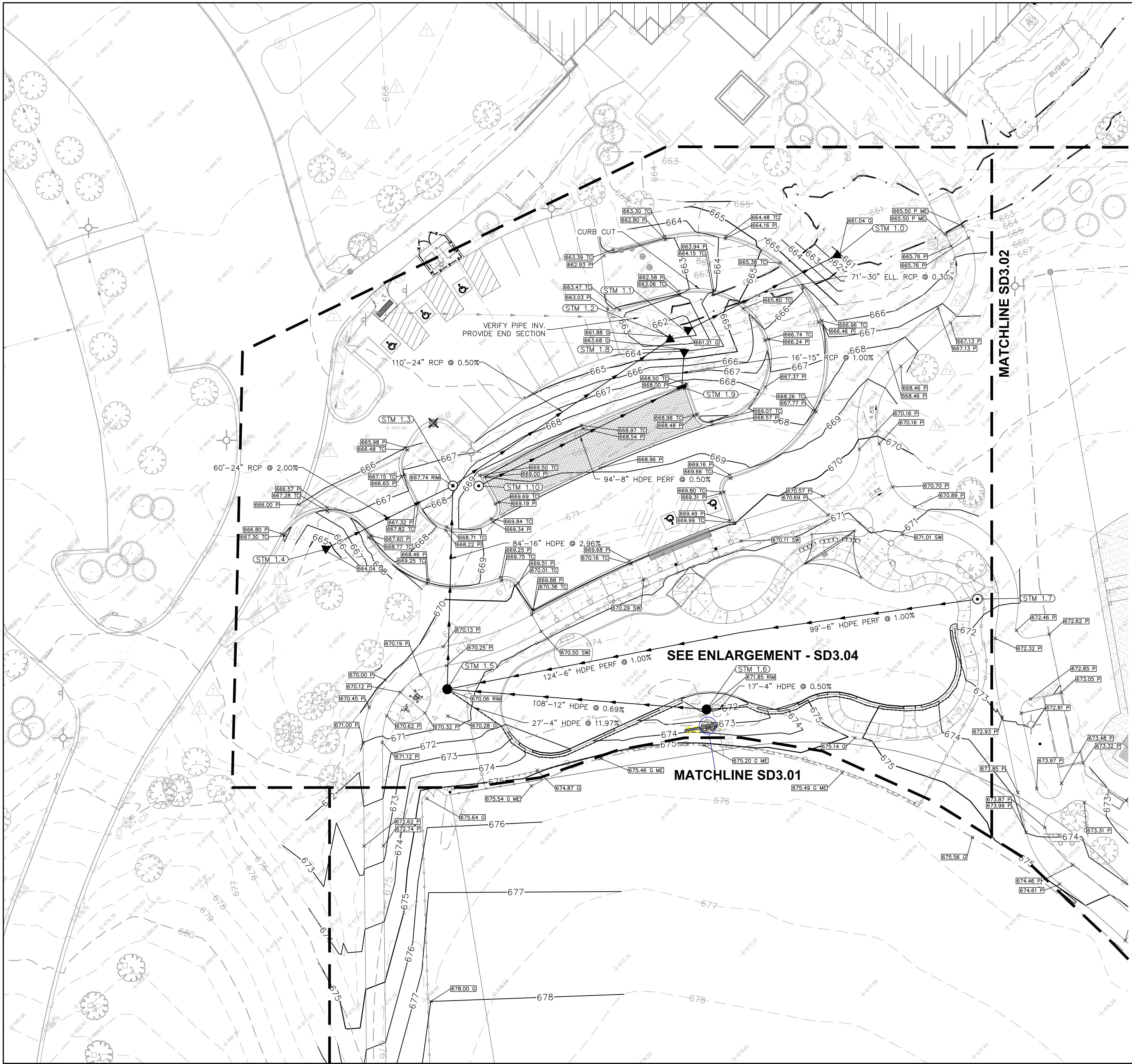
GRADING AND DRAINAGE PLAN

Project Number:
 5646-03
 Drawn By:

Sheet:
SD3.02



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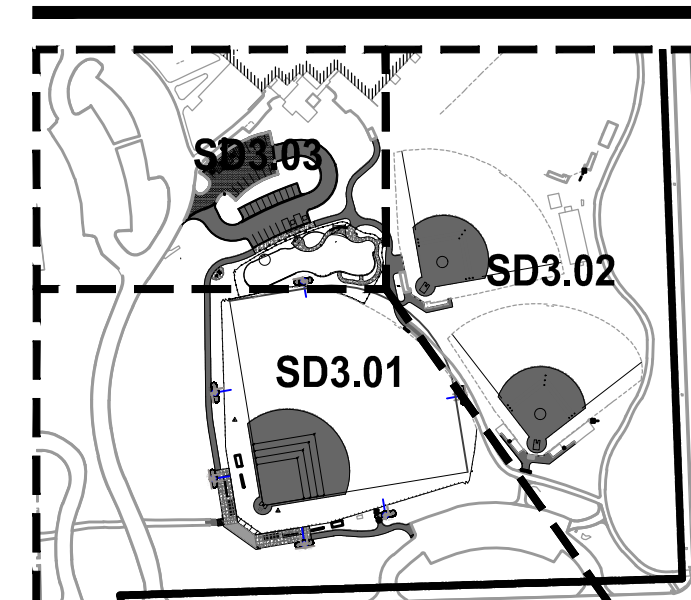
GRADING AND DRAINAGE NOTES:

1. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FROM PLAYGROUND AREA
2. CONTRACTOR TO VERIFY INVERT OF EXISTING STRUCTURE AND CONFIRM FUNCTIONALITY OF PROPOSED SYSTEM PRIOR TO INSTALLATION. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT IMMEDIATELY.
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5. PLAY AREA SUBGRADES SHALL PITCH TO UNDERTRAIN AT 0.5%.

LEGEND

ME	MATCH EXISTING ELEVATION
LP	LOW POINT
	TOP OF PAVEMENT ELEVATION
	TOP OF CURB ELEVATION
	GROUND ELEVATION
	TOP OF SIDEWALK ELEVATION
	RIM ELEVATION
	TOP OF FOUNDATION ELEVATION
	PLAYGROUND SURFACE ELEVATION
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	SLOPE/FLOW DIRECTION
	CATCH BASIN
	UNDERDRAIN
	STORM SEWER
	TRENCH & BACKFILL

Structure Table		
Structure	Structure Descriptions	Structure Details
STM 1.0	END SECTION	30" SW = 661.00
STM 1.1	END SECTION	30" NE = 661.21
STM 1.2	END SECTION	24" SW = 661.90
STM 1.3	6" TY, A MH TY, 1 F&G, CL	RIM = 667.74 24" SW = 662.80 16" S = 663.50 24" NE = 662.45
STM 1.4	END SECTION	24" NE = 664.00
STM 1.5	4" TY, A CB TY, 1 F&G, OL	RIM = 670.06 6" E = 667.27 12" E = 666.46 16" N = 666.00
STM 1.6	2" TY, A INL TY, 1 F&G, OL	RIM = 671.85 12" W = 667.21
STM 1.7	CLEANOUT	RIM = 671.83 6" W = 669.50
STM 1.8	END SECTION	15" S = 663.69
STM 1.9	4" TY, A CB TY, 11 F&G	RIM = 668.36 8" SW = 663.87 15" N = 663.85
STM 1.10	CLEANOUT	RIM = 669.48 8" NE = 664.33



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REV	DESCRIPTION	DATE

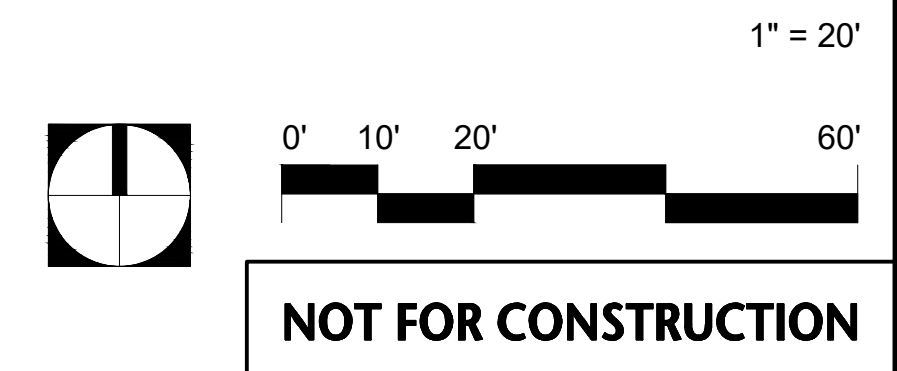
CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

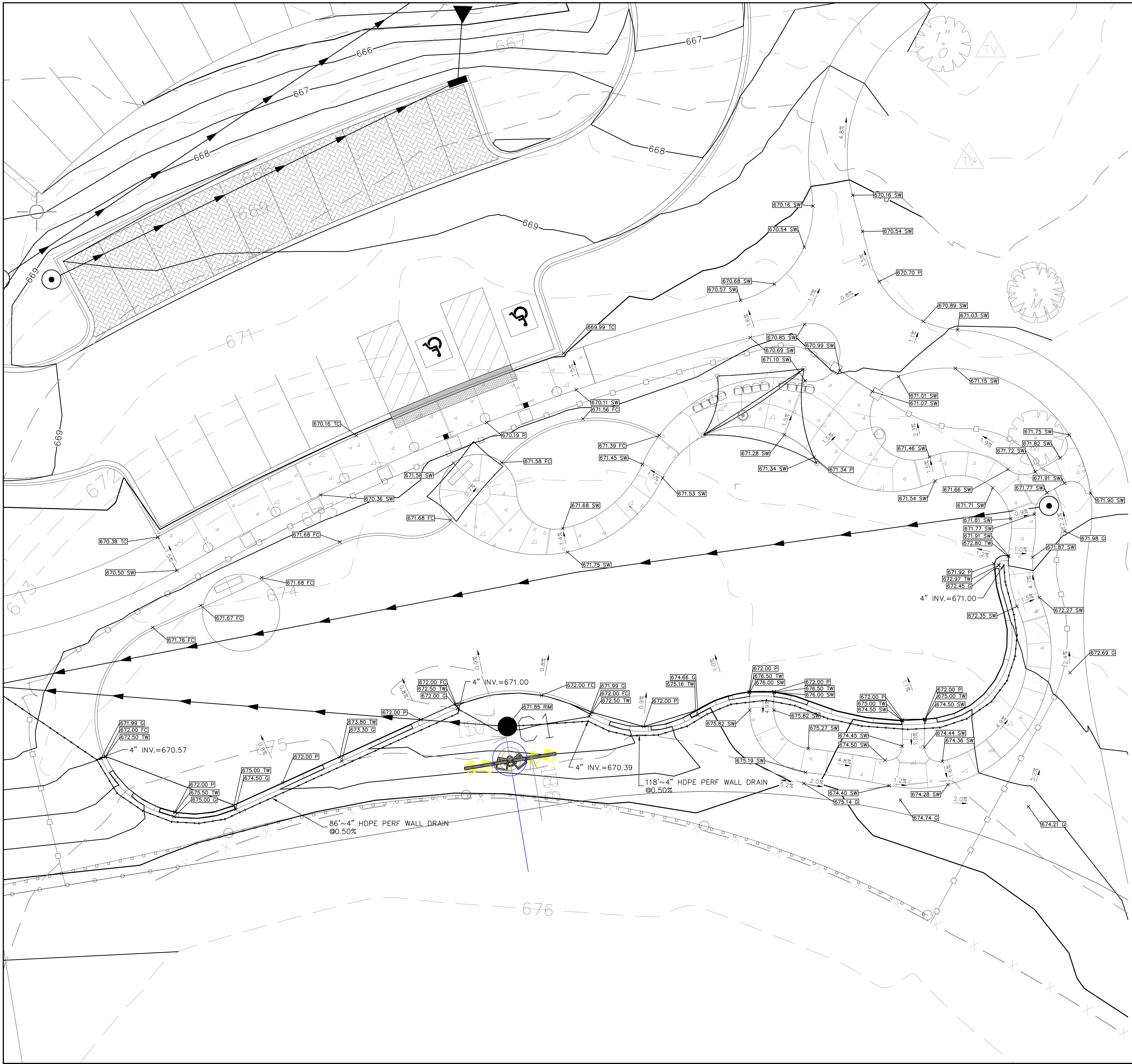
GRADING AND DRAINAGE PLAN

Project Number:
 5646-03
 Drawn By:
 Sheet:

SD3.03



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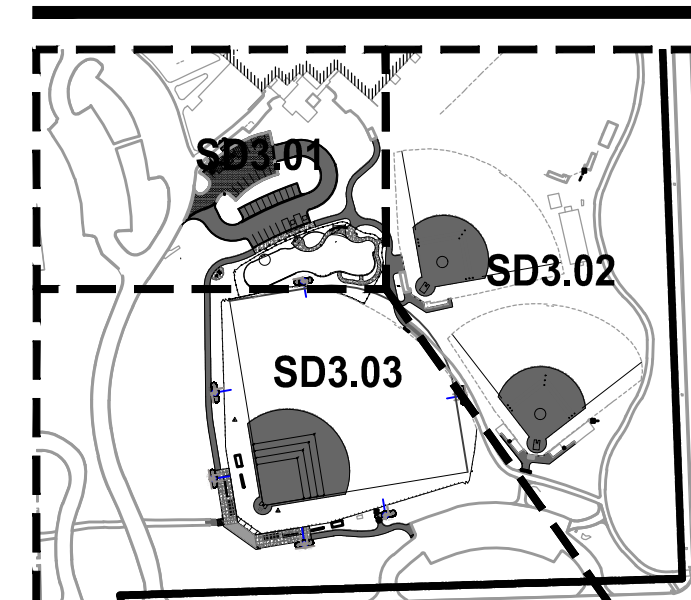
LEGEND

ME	MATCH EXISTING ELEVATION
LP	LOW POINT
	TOP OF PAVEMENT ELEVATION
	TOP OF CURB ELEVATION
	GROUND ELEVATION
	TOP OF SIDEWALK ELEVATION
	RIM ELEVATION
	TOP OF FOUNDATION ELEVATION
	PLAYGROUND SURFACE ELEVATION
- - - 745 - - -	EXISTING CONTOUR LINE
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	SLOPE/FLOW DIRECTION
	CATCH BASIN
	UNDERDRAIN
	STORM SEWER
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Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
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 F 630.969.7979

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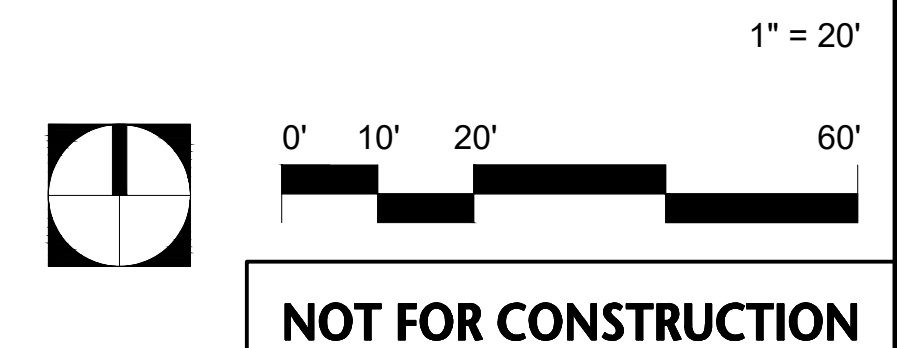
ISSUED FOR BID	12-6-17	
REV	DESCRIPTION	DATE

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

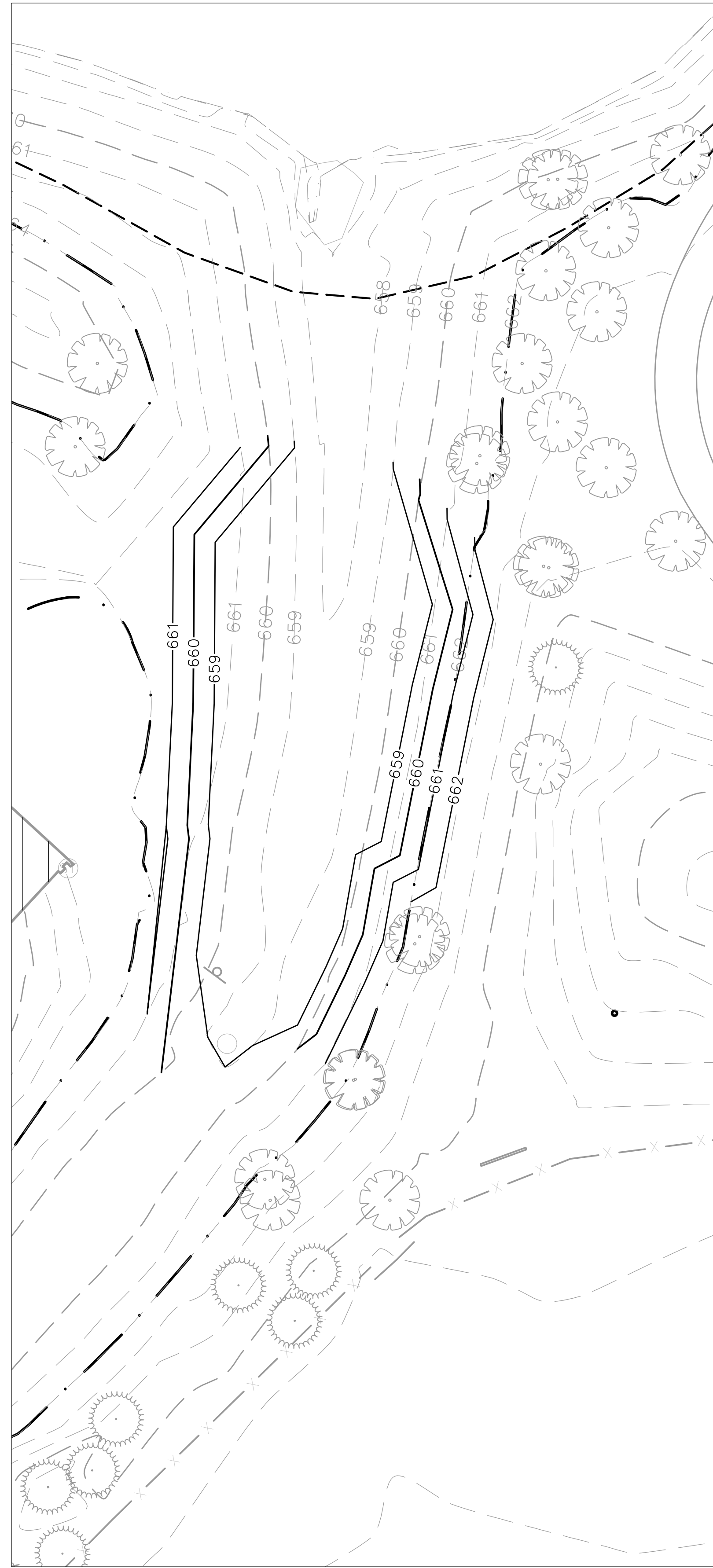
GRADING AND DRAINAGE PLAN

Project Number:
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 Sheet:

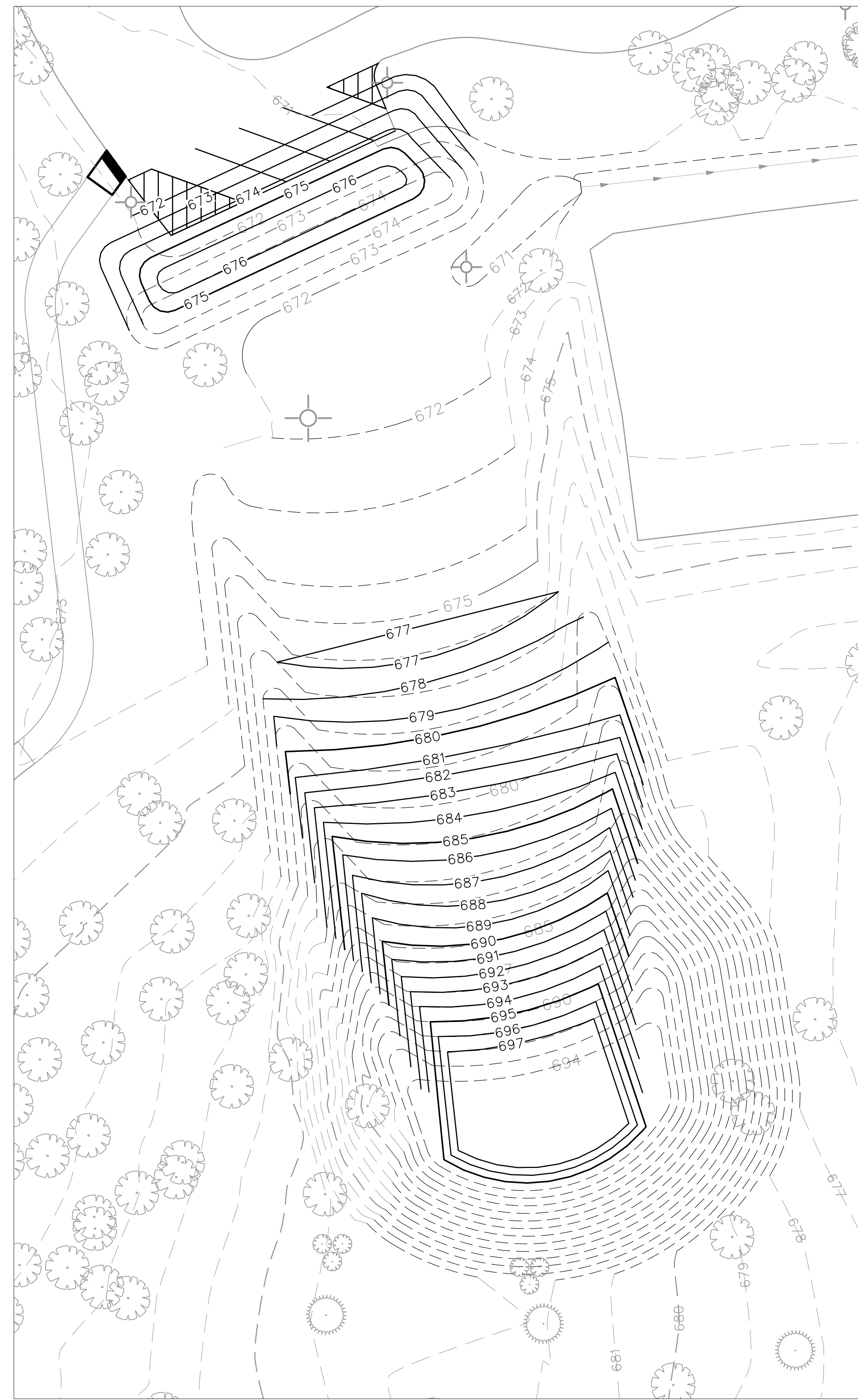


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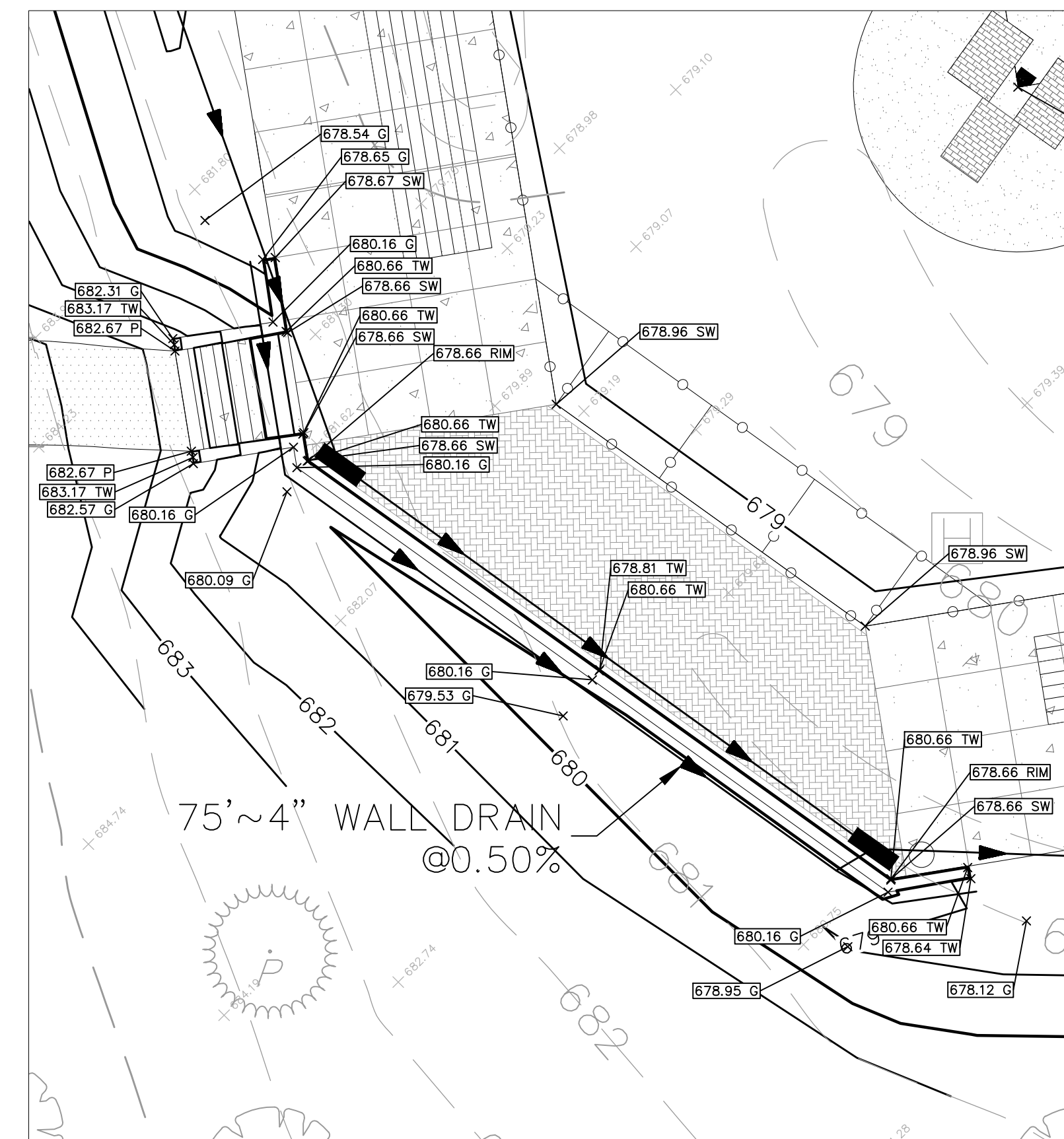


COMP STORAGE CUT 1"=20'



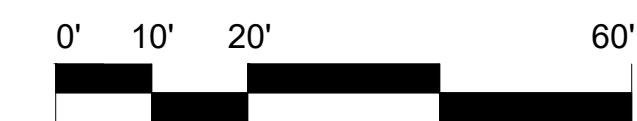
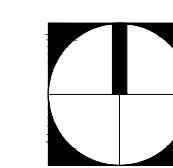
SLED HILL SPOIL AREA 1"=20'

CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT SPOIL ESTIMATES AND TO COORDINATE WITH CIVIL ENGINEER DURING BIDDING PROCESS TO CONFIRM FINAL SLED HILL DESIGN. ANY ADDITIONAL HAUL OFF AFTER CONSTRUCTION NOT ACCOUNTED FOR BY THE CONTRACTOR DURING BIDDING WILL BE THE CONTRACTOR'S RESPONSIBILITY TO HAUL OFF AND DISPOSE OF.



BACKSTOP DETAIL 1"=10'

1" = 20'



NOT FOR CONSTRUCTION

GRADING AND DRAINAGE NOTES:

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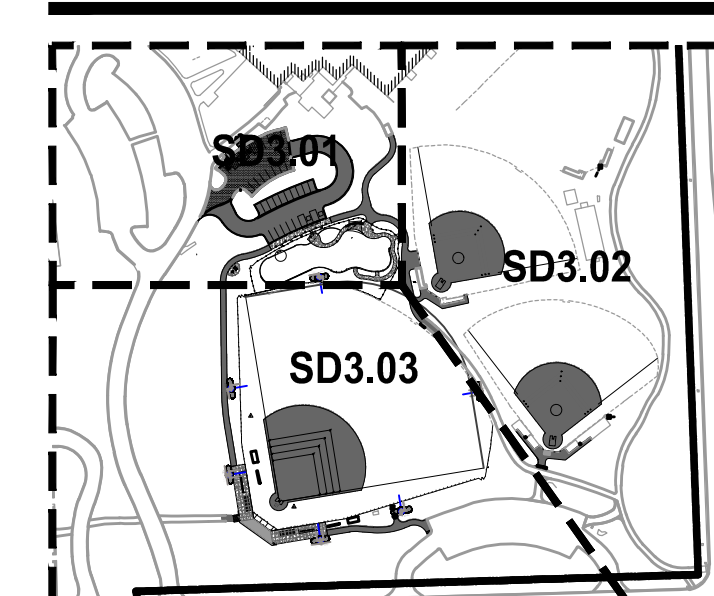
LEGEND

ME	MATCH EXISTING ELEVATION
LP	LOW POINT
	TOP OF PAVEMENT ELEVATION
	TOP OF CURB ELEVATION
	GROUND ELEVATION
	TOP OF SIDEWALK ELEVATION
	RIM ELEVATION
	TOP OF FOUNDATION ELEVATION
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Wight & Company
 wightco.com
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

GRADING AND DRAINAGE PLAN

Project Number:
 5646-03
 Drawn By:





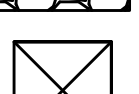
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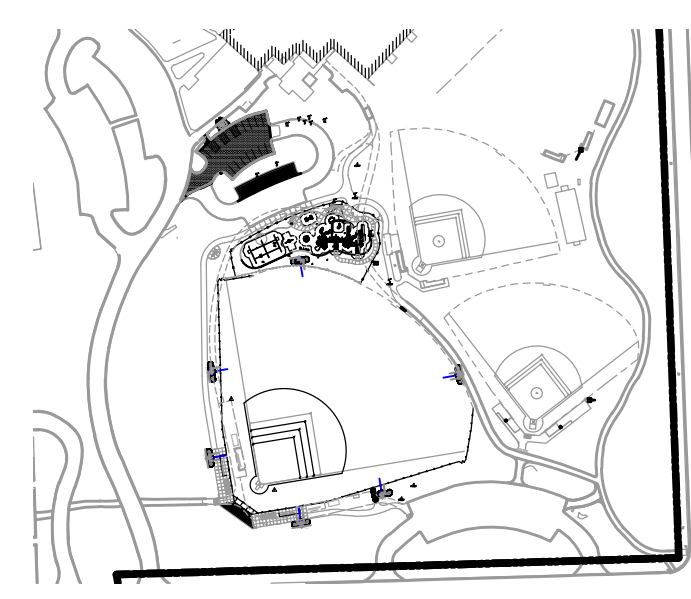
LEGEND

-  INLET PROTECTION
-  SILT FENCE
-  CULVERT INLET PROTECTION / CHECK DAM
-  CONSTRUCTION ENTRANCE
-  CONCRETE WASHOUT



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	ISSUED FOR BID	12-6-17

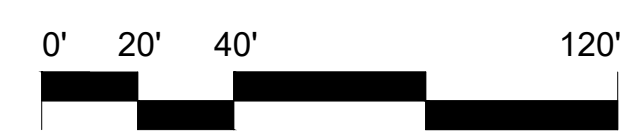
CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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**EROSION & SEDIMENT CONTROL PLAN
 PHASE I**

Project Number:
 5646-03
 Drawn By:
 Sheet:

1" = 40'








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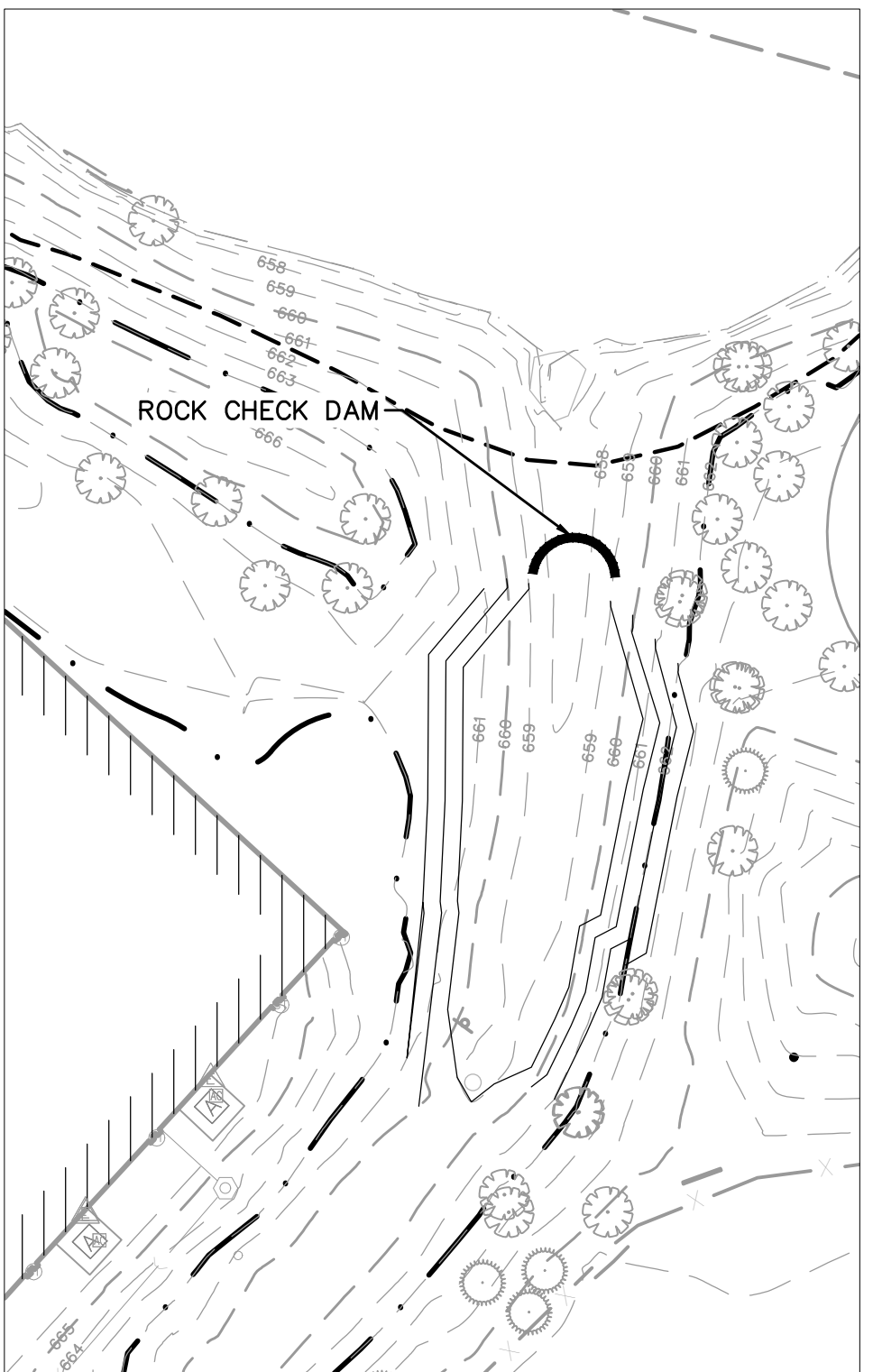
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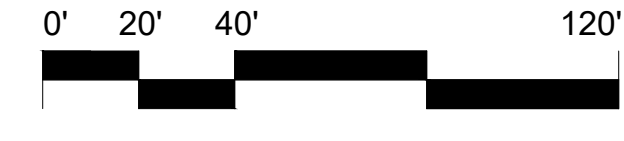
LEGEND

-  INLET PROTECTION
-  SILT FENCE
-  CULVERT INLET PROTECTION / CHECK DAM
-  CONSTRUCTION ENTRANCE
-  CONCRETE WASHOUT



COMP STORAGE LOCATION

1" = 40'

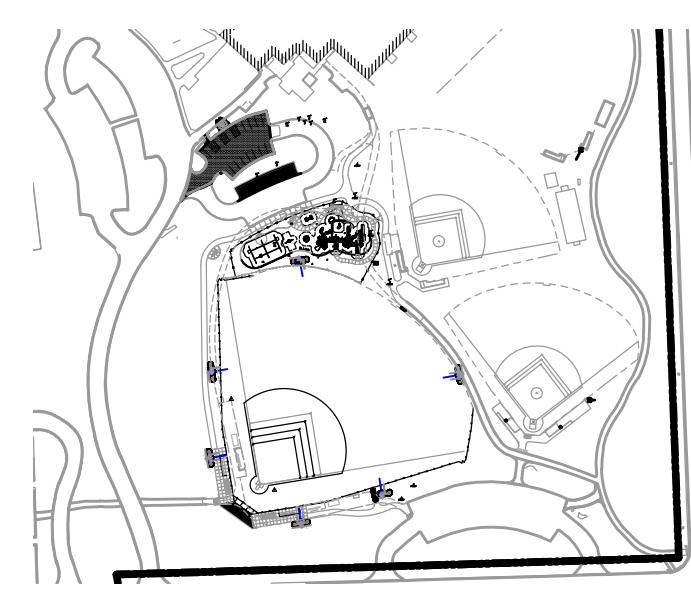


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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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**EROSION AND SEDIMENT CONTROL PLAN
 PHASE II**

Project Number:
 5646-03
 Drawn By:

Sheet:
SD3.07

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PIPE OUTLET TO FLAT AREA

PLAN

SECTION A-A

NOTES:

- The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class I or II.
- The rock riprap shall meet the IDOT requirements for the following gradation: RR-3 Quality III.
- The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-610 SHEET 1 OF 1 DATE 9-15-93
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TREE PROTECTION – FENCING

SIDE VIEW

POST AND FENCE DETAIL

NOTES:

- The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
- Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
- The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-690 SHEET 1 OF 1 DATE 4-7-94
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STABILIZED CONSTRUCTION ENTRANCE PLAN

PLAN VIEW

SIDE ELEVATION

NOTES:

- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I or II and shall be placed over the cleared area prior to the placing of rock.
- Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-630 SHEET 1 OF 2 DATE 8-18-94
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STABILIZED CONSTRUCTION ENTRANCE PLAN

SECTION A-A

SECTION B-B

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-630 SHEET 2 OF 2 DATE 8-18-94
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SILT FENCE PLAN

ELEVATION

FABRIC ANCHOR DETAIL

NOTES:

- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IUM-620 SHEET 1 OF 2 DATE 3-16-12
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CULVERT INLET PROTECTION – STONE

HALF PLAN VIEW

CENTERLINE CROSS SECTION

NOTES:

- Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
- Coarse aggregate shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4.
- Riprap shall meet IDOT gradation RR-3 or RR-4. Any permanent riprap, such as for the culvert headwall, shall meet IDOT Quality Designation A.
- Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- The maximum drainage area to the culvert being protected is 3 acres.
- See plans for H dimension.
- Tie the stone berm into the culvert embankment a minimum of 1 foot above the design elevation of the stone berm.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-508ST SHEET 1 OF 1 DATE 1-29-99
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EROSION CONTROL BLANKET INSTALLATION DETAILS

DETAIL 1

DETAIL 2

DETAIL 3

STAPLE DETAIL

PUSH PIN DETAIL

NOTES:

- Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
- Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
- Erosion control material shall be placed in contact with the soil over a prepared seedbed.
- All anchor slots shall be stapled at approximately 12" intervals.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-508ST SHEET 1 OF 1 DATE 1-29-99
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TEMPORARY CONCRETE WASHOUT FACILITY + EARTHEN TYPE

PLAN VIEW

SIGN DETAIL

NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	<p>NRCS Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-630 SHEET 2 OF 2 DATE 8-18-94
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OAK BROOK PARK DISTRICT

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REV	DESCRIPTION
DATE	DATE

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
OAK BROOK, IL 60523

EROSION CONTROL DETAILS

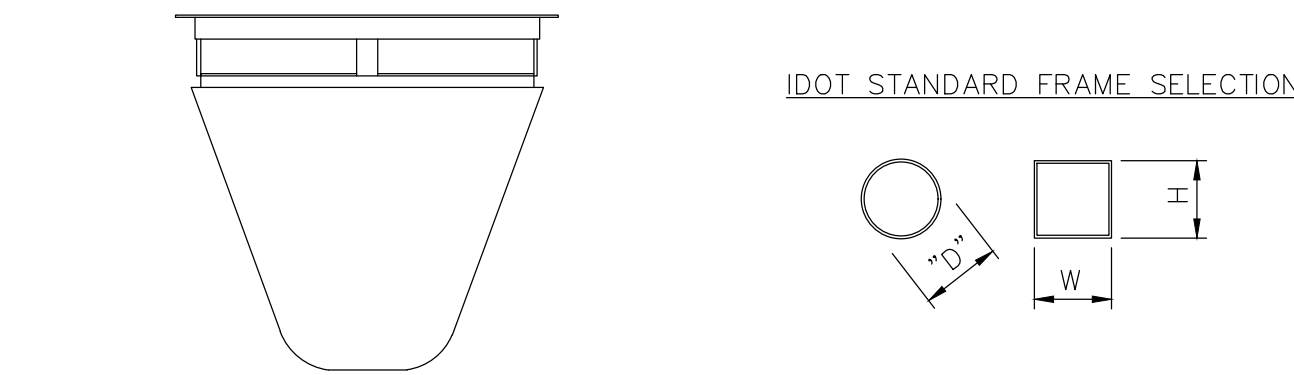
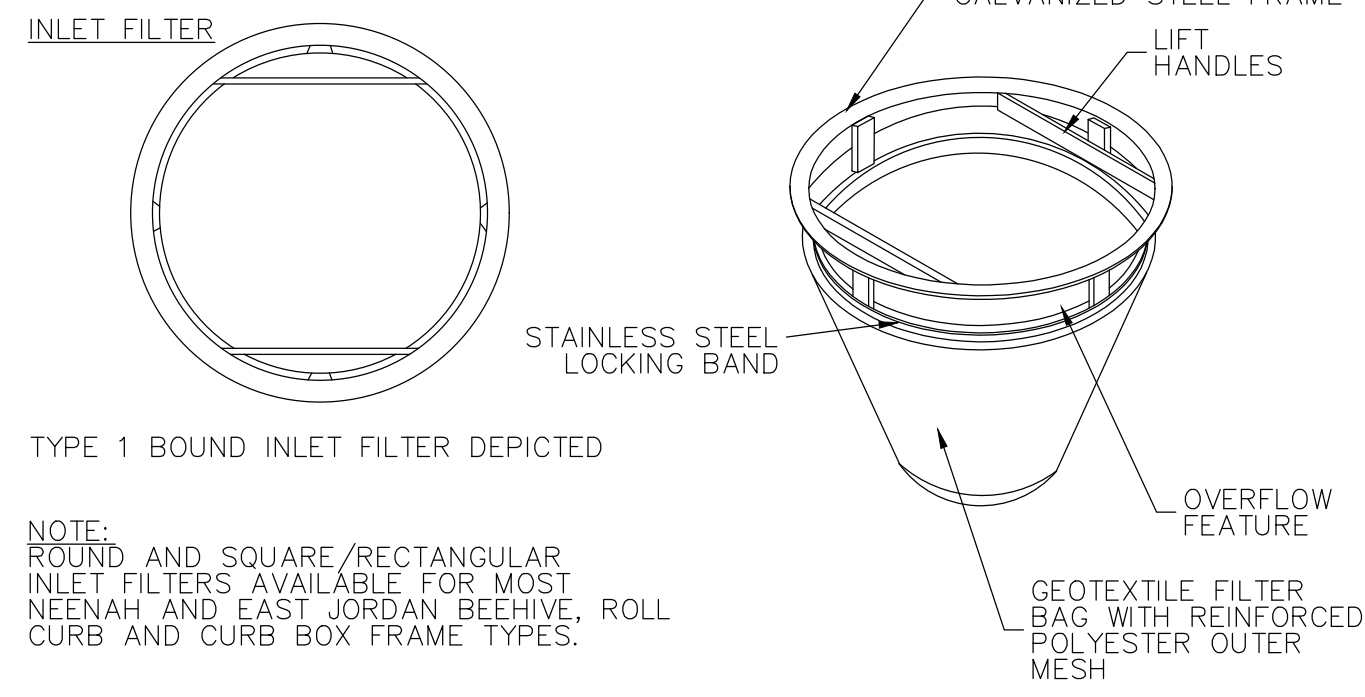
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Drawn By: DE
Sheet: C3.08

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1 DROP INLET PROTECTION FOR STRUCTURES IN IMPERVIOUS AREAS ONLY

C3.05



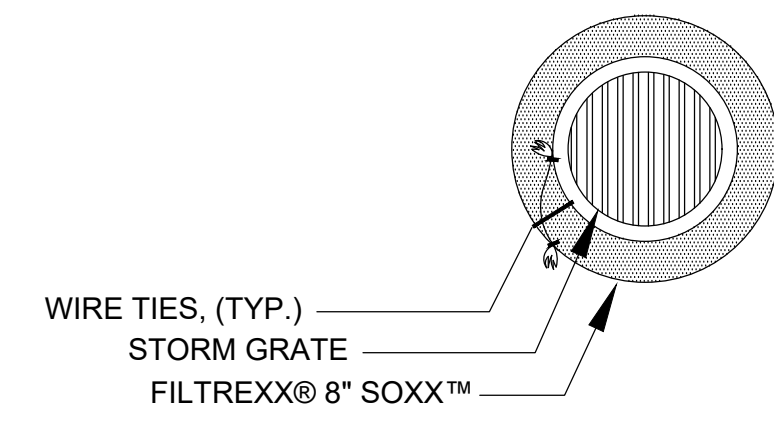
**CERTIFICATION: All IPP INLET FILTERS CONFORM TO IDOT SPECIFICATIONS AS OUTLINED IN ARTICLE 1081.15 OF IDOT'S STANDARDS SPECIFICATIONS GUIDE

IDOT Std	Grate Size	Opening	Filter P/N	Aprox Dims	Notes
Type 1, 5	22.75 dia	21	2200-1	D=22	Round
Type 9	33 dia	23 (minhole)	2600-8	D=26.5	Round
Type 9, 3V	22 x 16.9	20 x 15	2116-3CB	W=21, H=16	Curb box, flap
Type 11, 11V	28.75 x 11.38	27 x 9.875	2811-11CB	W=28, H=11	Curb box, flap
Type 6	22 x 22.75	20.25 x 23+	2122-6	W=21, H=22	Rolled curb
Type 12	28.75 x 17.25	27 x 16.5+	2617-12	W=28, H=16.5	Rolled curb
Type 4	21.75 x 14.75	20 x 13	2114-4	W=21, H=14	Rect flat
Type 20, 21, 22	22.5 x 22.5	20 x 20	2222-20	W=22, H=22	Square flat
Type 23	24 x 16.25	22 x 14.5	2316-23	W=23, H=15.5	Rect flat
Type 24	24 x 22.5	22 x 20.5	2322-24	W=23, H=22	Rect flat

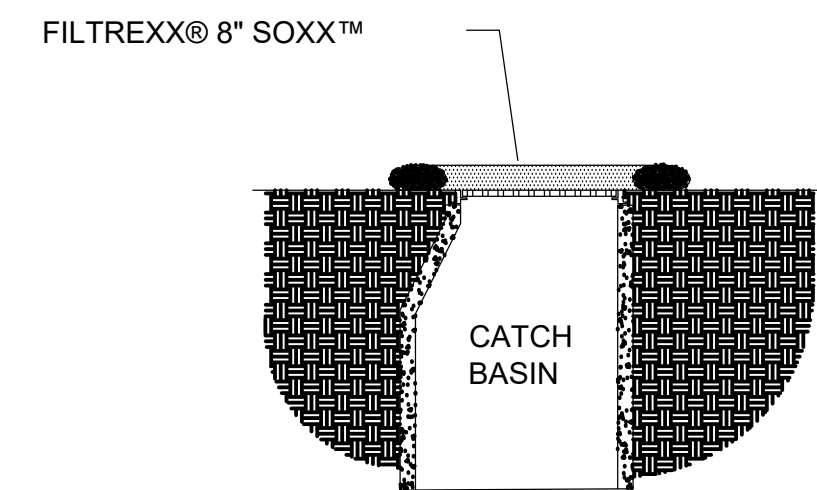
2 ABOVE GRADE INLET PROTECTION FOR STRUCTURES IN PERVIOUS AREAS

C3.05

OR APPROVED EQUAL



DRAIN INLET PLAN



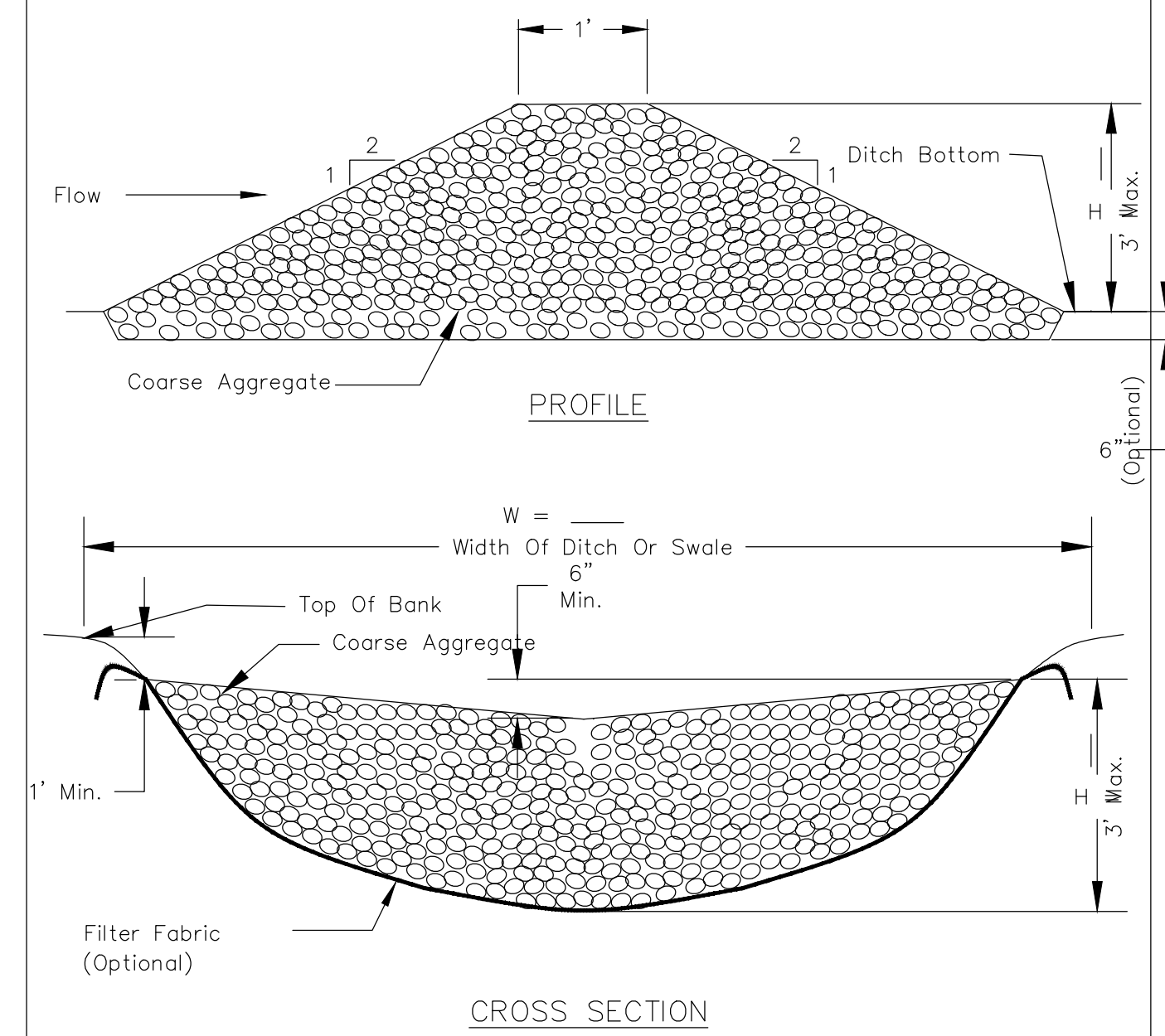
DRAIN INLET SECTION

- NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
 2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® INLET PROTECTION

NTS

ROCK CHECK DAM – COARSE AGGREGATE



- NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
 2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 3. For added stability, the base of the dam may be keyed 6 inches into the soil.
 4. See plans for spacing of dams and H dimensions.
 5. Drainage area to each dam shall be less than 2 acres.
 6. Use ROCK CHECK DAM-RIPRAP IL-605R for drainage areas of 2 to 10 acres.

REFERENCE	Project _____	STANDARD DWG. NO.
Designed _____	Date _____	IL-605CA
Checked _____	Date _____	SHEET 1 OF 1
Approved _____	Date _____	DATE 1-29-99



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

OAK BROOK PARK DISTRICT
 1450 Forest Gate Road
 Oak Brook, IL 60523

ISSUED FOR BID 12-6-17

REV	DESCRIPTION	DATE
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

EROSION CONTROL DETAILS

Project Number:
 5646-03
 Drawn By:
 DE
 Sheet:

C3.09

NOT FOR CONSTRUCTION

SEDIMENT AND EROSION CONTROL

- TRADE CONTRACTOR SHALL ABIDE BY EROSION CONTROL MEASURES OUTLINED IN THE ILLINOIS URBAN MANUAL, LATEST EDITION BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
- SILT FENCING AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE TRADE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES TO THE LIMITS DELINEATED ON THE PLANS. NO DISTURBANCE OF LAND IS ALLOWED OUTSIDE THE SILT FENCE AND PROJECT LIMITS AS INDICATED ON THE PLANS.
- ALL REQUIRED EROSION CONTROL MEASURES INCLUDING DETENTION BASIN CONSTRUCTION SHALL BE IN PLACE PRIOR TO ANY OTHER SITE DISTURBANCE.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSPECTED WEEKLY AND MAINTAINED. INSPECTIONS SHALL ALSO BE MADE AFTER A RAINFALL EVENT OF 1/2 INCH OR GREATER OR EQUIVALENT SNOW FALL EVENT. IF NECESSARY, REPAIR OR REPLACEMENT MUST BE PERFORMED IMMEDIATELY TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTIONS.
- DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS, BASINS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE MUNICIPALITY TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- THE TRADE CONTRACTOR SHALL STABILIZE THE SIDE SLOPES GREATER THAN 10:1 OR WHERE SHOWN ON THE PLANS BY INSTALLING NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET, WITHIN 5 DAYS AFTER FINAL GRADE IS ACHIEVED AND FOLLOWING SEEDING WITH THE TEMPORARY SEED MATRIX. THE EROSION CONTROL BLANKET SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
- TEMPORARY STOCKPILES SHALL HAVE A SILT FENCE ERECTED AROUND THE PERIMETER OF THE PILE. IF A PILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, IT SHALL BE TEMPORARILY SEEDED.
- SOIL STOCKPILE LOCATIONS MAY BE LOCATED BY THE CONTRACTOR AS NECESSARY ONSITE AND DO NOT NEED TO MATCH EXACT LOCATION AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. PROVIDE SILT FENCE AROUND ALL STOCKPILE LOCATIONS. NO STOCKPILES SHALL BE PLACED IN THE PROPOSED DETENTION POND OR BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM BY THE USE OF STRAW WATTLES, ROCK CHECK DAMS OR OTHER APPROVED METHODS. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM ALL SEWERS AND DRAINAGE STRUCTURES (NO FLUSHING DOWNSTREAM) UNTIL 90% OF VEGETATION IS ESTABLISHED.
- TEMPORARY SEDIMENT BARRIERS, STRAW WATTLE PROTECTION FOR STORM SEWER GRATES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS WITHIN THE PLANS AND THE ILLINOIS URBAN MANUAL. THE TRADE CONTRACTOR SHALL PRESCRIBE THE METHODS OUTLINED IN THE ILLINOIS URBAN MANUAL TO CONTROL DUST. ACCEPTABLE MEASURES INCLUDE VEGETATIVE COVER (TEMPORARY SEEDING), MULCH, IRRIGATION, STONE, AND PERMANENT VEGETATION (PERMANENT SEEDING). TEMPORARY DUST CONTROL MEASURES (BY MEANS ACCEPTABLE TO LOCAL AUTHORITIES) SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL.
- IF AN EXISTING ON-SITE ASPHALT ACCESS IS NOT PRESENT THEN, THE TRADE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS ROAD CONSTRUCTED OF IDOT CA-1 FOR 100 FEET IN LENGTH. THE TRADE CONTRACTOR SHALL MAINTAIN THE ADJACENT ROADS FREE OF MUD AND SEDIMENT AT ALL TIMES. REFER TO THE ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING PUBLIC STREETS CLEAR OF DIRT, DUST, DEBRIS AND MUD ON A DAILY BASIS FOR THE ENTIRE CONSTRUCTION PERIOD BY A MEANS ACCEPTABLE TO LOCAL AUTHORITIES.
- ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.

STORM WATER POLLUTION PREVENTION NOTES

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

THE PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY NON-COMPLIANCE CONSTITUTES A VIOLATION OF THE IEPA ACT AND THE CLEAN WATER ACT AND CAN BE GROUNDS FOR ENFORCEMENT ACTION, PERMIT REVOCATION, MODIFICATION, RE-ISSUANCE, TERMINATION, OR DENIAL OF A PERMIT RENEWAL.

1. SITE DESCRIPTION
- a. THE CONSTRUCTION ACTIVITY CONSISTS OF CLEARING AND GRUBBING, MASS GRADING, CONSTRUCTION OF UTILITIES, CONSTRUCTION OF PARKING LOTS, DRIVES AND SIDEWALKS, FENCING, PLAYGROUND INSTALLATION, SPORTS LIGHTING, BALLFIELD SURFACING, AND SITE LANDSCAPING.
- b. THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION IS: TOPSOIL STRIPPING, MASS GRADING, UTILITY CONSTRUCTION, HARD SURFACE CONSTRUCTION, FINE GRADING, PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATION.
- c. THE TOTAL AREA OF THE SITE IS 70,981 ACRES. 4.50 ACRES ARE EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES; THE PROPOSED RUNOFF COEFFICIENT IS 0.51.
- d. THE SOIL TYPES THAT ARE PREVALENT ON THE SITE ARE MILFORD SILT CLAY LOAM, GRUNDLEIN SILT LOAM, WAUCONDA SILT LOAM, ORTHENS CLAYEY, ZURICH SILT LOAM, AND OZAUKEE SILT LOAM. THE PROJECT CONSISTS OF PREDOMINANTLY TYPE C SOILS ACCORDING TO THE NRCS SOIL SURVEY.
- e. THIS PLAN INDICATES DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.
- f. THE RECEIVING WATERS ARE EXISTING DRAINAGE SWALE AT THE NORTH SIDE OF THE SITE. THE ULTIMATE RECEIVING WATER IS GINGER CREEK, WHICH IS DIRECTLY NORTH OF THE SITE OF DISTURBANCE.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

PROVIDE AND INSPECT, ADEQUATE EROSION CONTROL MEASURES ON THE SITE. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST REVISION) BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND WITH THE ILLINOIS URBAN MANUAL.

1. ESTABLISH THE STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE.
3. INSTALL TREE PROTECTION AS NOTED
4. INSTALL INLET/OUTLET PROTECTION MEASURES.
5. INSTALL CHECK DAMS AND CULVERT PROTECTION
7. PERFORM SITE CLEARING AND DEMOLITION ACTIVITIES AS SHOWN ON PLANS.
8. PERFORM SITE GRADING AND DETENTION BASIN INSTALLATION AS SHOWN ON GRADING PLANS.
9. STOCK PILE TOP SOIL, PROVIDING SILT FENCE AROUND PILE.
10. INSTALL UTILITIES WITH APPROPRIATE TEMPORARY AND PERMANENT INLET AND OUTLET PROTECTION.
11. TEMPORARILY STABILIZE ANY BARREN AREAS.
12. CONSTRUCTION OF PARKING LOTS, BASEBALL FACILITIES AND PLAYGROUND IMPROVEMENTS.
13. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY.
14. BMP INSTALLATION
15. LANDSCAPE INSTALLATION
16. ACHIEVE FINAL SITE STABILIZATION.
17. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON THE ESTABLISHMENT OF PERMANENT GROUND COVER.

2. CONTROLS
THIS PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE. FOR EACH MEASURE, THE CONTRACTOR(S) WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION.

- a. EROSION AND SEDIMENT CONTROLS – THE PERMITTEE SHALL DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO:
 - a. CONTROL STORM WATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION
 - b. CONTROL STORM WATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORM WATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION
 - c. MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY
 - d. MINIMIZE THE DISTURBANCE OF STEEP SLOES
 - e. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.
 - f. PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATER, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, UNLESS INFEASIBLE
 - g. MINIMIZE SOIL COMPACTED AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

- b. STABILIZATION PRACTICES – STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATION OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OR PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. STABILIZATION PRACTICES MAY INCLUDE, TEMPORARILY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, STAGES OR STAGGERED DEVELOPMENT, AND OTHER APPROPRIATE MEASURES. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE INCLUDED IN THE PLAN. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED PROVIDED IN PARAGRAPHS (a) AND (b) BELOW:
 - a. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - b. ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.

- c. STRUCTURAL PRACTICES – PRACTICES INSTALLED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR RUNOFF AND OTHERWISE FILTER OR LIMIT THE DISCHARGE OF POLLUTANTS FROM THE SITE SUCH AS, BUT NOT LIMITED TO: SILT FENCES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. STRUCTURAL PRACTICES SHOULD BE ON UPLAND SOILS TO THE DEGREE PRACTICABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 4040 OF THE CWA.
 - a. THE FOLLOWING DESIGN REQUIREMENT APPLY TO SEDIMENT BASINS IF SUCH STRUCTURAL PRACTICES WILL BE INSTALLED TO REDUCE SEDIMENT CONCENTRATION IN STORM WATER DISCHARGES:
 - a.o. WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE THE DISCHARGE.
 - a.b. PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS (E.G., EROSION CONTROL BLANKETS), AT THE INLET AND OUTLET USING EROSION CONTROL AND VELOCITY DISSIPATION DEVICES.
 - a.c. SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY.

- d. USE OF TREATMENT CHEMICALS – THE USE OF ALL POLYMER FLOCCULANTS OR TREATMENT CHEMICALS AT THE SITE SHALL BE IDENTIFIED, DOSAGE OF TREATMENT CHEMICALS SHALL BE IDENTIFIED ALONG WITH ANY INFORMATION FROM ANY MATERIAL SAFETY DATA SHEET, STORAGE AREAS FOR CHEMICALS AND ANY INFORMATION FROM THE MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED. TREATMENT CHEMICALS MUST BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION.
- e. BEST MANAGEMENT PRACTICES FOR IMPAIRED WATERS – FOR ANY SITE WHICH DISCHARGES DIRECTLY TO AN IMPAIRED WATER IDENTIFIED ON THE AGENCY'S WEBSITE FOR 303(d) LISTING FOR SUSPENDED SOLIDS, TURBIDITY, OR SILTATION THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE DESIGNED FOR A STORM EVENT EQUAL TO OR GREATER THAN A 25-YEAR 24-HOUR RAINFALL EVENT. IF REQUIRED BY FEDERAL REGULATIONS OR THE ILLINOIS URBAN MANUAL, THE STORM WATER POLLUTION PREVENTION PLAN SHALL ADHERE TO A MORE RESTRICTIVE DESIGN CRITERIA.
- f. POLLUTION PREVENTION – POLLUTION PREVENTION MEASURES SHALL BE DESIGNED, INSTALLED, IMPLEMENTED, AND MAINTAINED TO MINIMIZE THE DISCHARGE OF POLLUTANTS, AT A MINIMUM, SUCH MEASURES MUST BE DESIGNED, INSTALLED, IMPLEMENTED AND MAINTAINED TO:
 - a. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WELL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE
 - b. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTER AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORM WATER
 - c. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

- g. OTHER CONTROLS
 - a. WASTE DISPOSAL THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIAL, MACHINERY, TOOLS AND OTHER SOLID ITEMS WILL BE COLLECTED AND DISPOSED OFF-SITE BY THE CONTRACTOR.
 - b. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE NECESSARY PERMITS FOR SUCH DISPOSAL.
 - c. BURNING ON THE SITE IS NOT ALLOWED.
 - d. NO SOLID MATERIALS SHALL BE SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 - e. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS. SANITARY SEWAGE SHALL BE DISCHARGED TO THE PROPOSED SANITARY SEWER CONSTRUCTED PER IEPA AND LOCAL STANDARDS.
 - f. APPROPRIATE CONTROLS AND MEASURES SHALL BE IN PLACE TO REDUCE OR ELIMINATE DISCHARGES FROM CONCRETE OR ASPHALT.
 - g. CONTRACTOR TO INCLUDES SPILL RESPONSE PROCEDURES AND PROVISIONS FOR REPORTING IF THERE ARE RELEASES IN EXCESS OF REPORTABLE QUANTITIES.
 - h. CONTRACTOR TO MINIMIZE THE DISCHARGE OF POLLUTANTS FORM ALL WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR OTHER CONTROL
 - i. MINIMIZE THE EXPOSURE OF BUILDING MATERIAL, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHERS MATERIALS PRESENT ONSITE TO PRECIPITATION EXPOSURE.
 - j. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE MEASURES.
- h. SPILL PREVENTION AND RESPONSE PROCEDURES – THE CONTRACTOR WILL TRAIN ALL PERSONNEL IN THE PROPER HANDLING AND CLEANUP OF SPILLED HAZARDOUS SUBSTANCES OR OIL. NO SPILLED HAZARDOUS SUBSTANCES OR OIL WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE BY MEASURES SUCH AS, BUT NOT LIMITED TO ABSORBENTS, BOOMS, STATIC RESISTANT PADS, SUMP BOOMS AND OTHER CLEAN UP EQUIPMENT UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S SUPERINTENDENT TO BE PROPERLY TRAINED, AND TO TRAIN ALL PERSONNEL IN SPILL PREVENTION AND CLEAN UP PROCEDURES.

- i. IN ORDER TO PREVENT OR MINIMIZE THE POTENTIAL FOR A SPILL OF HAZARDOUS SUBSTANCES OR OIL TO COME INTO CONTACT WITH STORM WATER, THE FOLLOWING STEPS WILL BE IMPLEMENTED:
 1. ALL HAZARDOUS SUBSTANCES OR OIL (SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, DETERGENTS, CONSTRUCTION CHEMICALS, ACIDS, PAINTS, PAINT SOLVENTS, CLEANING SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE CURING COMPOUNDS AND ADDITIVES, ETC.) WILL BE STORED IN A SECURE LOCATION, WITH THEIR LIDS ON, PREFERABLY UNDER COVER, WHEN NOT IN USE.
 2. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS WILL BE KEPT AT THE PROJECT.
 3. A SPILL CONTROL AND CONTAINMENT KIT WILL BE PROVIDED AT THE STORAGE SITE.
 4. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED INSIDE THE JOB TRAILER WALL AND SITE PERSONNEL WILL BE TRAINED REGARDING THESE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL HAZARDOUS WASTE DISCOVERED OR GENERATED AT THE PROJECT SITE IS DISPOSED OF PROPERLY BY A LICENSED HAZARDOUS MATERIAL DISPOSAL COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR NOT EXCEEDING HAZARDOUS WASTE STORAGE REQUIREMENTS MANDATED BY THE EPA OR STATE AND LOCAL AUTHORITY.

- b. IN THE EVENT OF A SPILL OF HAZARDOUS SUBSTANCES OR OIL, THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
 1. ALL MEASURES MUST BE TAKEN TO CONTAIN AND ABATE THE SPILL AND TO PREVENT THE DISCHARGE OF THE HAZARDOUS SUBSTANCE OR OIL TO STORM WATER OR OFF-SITE. (THE SPILL AREA MUST BE KEPT WELL VENTILATED AND PERSONNEL MUST WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH THE HAZARDOUS SUBSTANCES.)
 2. DETERMINE WHETHER THE SPILL IS REPORTABLE.
 3. IF THE SPILL IS DETERMINED TO BE REPORTABLE THE EPA SHALL BE CONTACTED IMMEDIATELY.
 4. IF THE RELEASE IS EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY, THE SWPPP MUST BE MODIFIED WITHIN SEVEN (7) CALENDAR DAYS OF KNOWLEDGE OF THE DISCHARGE TO PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE. THE SWPPP MUST IDENTIFY MEASURES TO PREVENT THE RECURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.
 5. IF THE RELEASE IS DETERMINED TO NOT BE REPORTABLE (LESS THAN A REPORTABLE QUANTITY) IT SHALL BE NOTED ON AN INSPECTION REPORT AS AN UNSATISFACTORY ITEM AND THE CORRECTIVE ACTION ITEM SHALL BE NOTED AND DATED AS IMPLEMENTED.

- c. THE CONTRACTOR'S SUPERINTENDENT WILL BE THE SPILL PREVENTION AND RESPONSE COORDINATOR. HE WILL DESIGNATE THE INDIVIDUALS WHO WILL RECEIVE SPILL PREVENTION AND RESPONSE TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND RESPONSE. THE NAMES OF THESE PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

- i. BEST MANAGEMENT PRACTICES FOR POST-CONSTRUCTION STORM WATER MANAGEMENT – STRUCTURAL MEASURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA. THIS PERMIT ONLY ADDRESSES THE INSTALLATION OF STORM WATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR ONLY THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE, AND IS NOT RESPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE.
- a. POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES HAVE BEEN DESIGNED AND INCLUDED TO RETAIN THE GREATEST AMOUNT OF POST-DEVELOPMENT STORM WATER RUN-OFF PRACTICABLE, GIVEN THE SITE AND PROJECT CONSTRAINTS. TWO INFILTRATION TRENCHES HAVE BEEN INCLUDED IN THE DESIGN. THE INFILTRATION TRENCHES WILL USED TO FILTER OUT POLLUTANTS BY INFILTRATION OF THE RUN-OFF THROUGH AGGREGATE AND A GEOTEXTILE FABRIC. POST-DEVELOPMENT FLOWS THAT EXCEED PRE-DEVELOPMENT FLOWS WILL BE CONTROLLED BY THE INFILTRATION TRENCHES. THE INFILTRATION TRENCH WILL CAPTURE AND RETAIN RUNOFF ON-SITE TO OFFSET THE ADDITIONAL POST DEVELOPMENT FLOW.
- b. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO REDUCE VELOCITY AND EROSION FROM THE STRUCTURE TO A WATER COURSE THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

- a. THE CONTRACTOR SHALL MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED.
- ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE.
- a. SILT FENCE – ALL DAMAGED SILT FENCE SHALL BE RESTORED TO MEET THE STANDARDS OR REMOVED AND REPLACED AS NEEDED. SEDIMENT SHALL BE REMOVED AND LEGALLY DISPOSED OF WHEN IT HAS REACHED 1/3 THE HEIGHT OF THE FABRIC.
- b. STABILIZED CONSTRUCTION ENTRANCE – THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONT PUBLIC STREETS. THIS SHALL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVE AND REPLACED TOP LAYER OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT OR WAY WILL BE REMOVED IMMEDIATELY.
- c. SEDIMENTATION BASINS/TRAPS – THE SEDIMENTS SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. IN NO CASE SHALL THE SEDIMENT BE BUILT UP TO REMOVE THAT 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT TO RESTORE ITS ORIGINAL VOLUME.
- d. INLET/OUTLET PROTECTION– SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. ALL SEDIMENT SHALL BE REMOVED PRIOR TO LARGE RAIN EVENTS. FILTER MATERIAL FOR BASKET TYPE INLET PROTECTION SHALL BE POWER WASHED.
- e. ROCK DAMS/FILTERS – SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. ADDITIONAL STONE SHALL BE ADDED OR DAM/FILTER STABILIZED AS NECESSARY.
- f. SEDIMENT FILTER BAG – SEDIMENT SHALL BE REMOVED WHEN 50% OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT. BAG SHALL BE REPLACED AND DISPOSED OF PROPERLY. BAG SHALL BE INSPECTED FOR HOLES, DAMAGE, ETC. AND BE REPLACED AS NECESSARY.
- g. VEGETATIVE EROSION CONTROL MEASURES – THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTERS, ETC SHALL BE MAINTAINED FREQUENTLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER.
- h. STRAW WATTLES – STRAW WATTLES SHALL BE INSPECTED FREQUENTLY AND SHALL BE REPAIRED OR REMOVED AND REPLACED AS NEEDED.
- i. RIP RAP – RIP RAP SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP RAP OR FOR STONES THAT HAVE BEEN DISLOGGED. REPAIRS SHALL BE MADE IMMEDIATELY.

- i. INSPECTIONS
- a. QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY THAT IS 0.5 INCHES OR GREATER. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSW) OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILL TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES.
- a. INSPECTIONS MAY BE CONDUCTED AT ANY TIME. IF INSPECTIONS ARE DEFERRED TO A DATE OTHER THAN THAT OF FROZEN CONDITIONS, WEEKLY INSPECTION WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOW MELT OCCURS.

- b. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICATION IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIST THE SITE SHALL BE INSPECTED FOR EVIDENCE OR OFFSITE SEDIMENT TRACKING.
- c. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 2 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
- d. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE REPORT SHALL BE SIGNED BY THE CONTRACTOR.
- e. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE BY EMAIL AT: EPA.SWNONCOMP@ILLINOIS.GOV, TELEPHONE OR FAX WITHIN 24 HOURS OF AN INCIDENT OF NONCOMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING ANY INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITION OF THIS PERMIT. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, OR FOR VIOLATIONS OF ANY CONDITION OF THIS PERMIT. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE.
- f. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.
- g. AFTER THE INITIAL CONTACT HAS BEEN MADE WITH THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE, ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

5. NON-STORED WATER DISCHARGES
THE FOLLOWING SOURCES OF NON-STORED WASTE MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.
 - FIRE FIGHTING ACTIVITIES
 - WATER MAIN/ HYDRANT FLUSHING
 - WATERING FOR DUST CONTROL
 - IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH
 - WASH WATER WHERE DETERGENTS ARE NOT USED UNCONTAMINATED GROUND WATER
 NON-FIRE FIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL SITE DE-WATERING, INCLUDING PUMP DISCHARGE SHALL PASS THROUGH SEDIMENT CONTROL DEVICES PRIOR TO LEAVING THE SITE.
THE FOLLOWING SOURCES OF NON-STORED WASTE ARE PROHIBITED FROM BEING COMBINED WITH STORM WATER DISCHARGES:
 - CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY AN APPROPRIATE CONTROL
 - DRYWALL COMPOUND
 - WASTEWATER FROM WASHOUT AND CLEANOUT FOR STUCCO AND PAINT
 - FORM RELEASE OILS
 - CURING COMPOUNDS
 - CONSTRUCTION MATERIALS, FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
 - SOAPS, SOLVENTS, OR DETERGENTS
 - TOXIC OR HAZARDOUS SUBSTANCES FORM A SPILL OR OTHER RELEASE
 - OR ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION
6. RETENTION OF RECORDS
- A. THE CONTRACTOR SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIODS OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE AGENCY AT ANY TIME.
- B. THE CONTRACTOR SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
- C. NOTICE OF TERMINATION UPON FINAL STABILIZATION OF THE SITE, THE PERMITTEE SHALL SUBMIT A \ COMPLETED NOTICE OF TERMINATION IN ACCORDANCE WITH NPDES PERMIT NO. ILR10.

STORM WATER POLLUTION PREVENTION PLAN	
OAK BROOK PARK DISTRICT – CENTRAL PARK IMPROVEMENTS	
LOCATION OF DEVELOPMENT	LEGAL DESCRIPTION
1500 FOREST GATE ROAD	26 39N 11E
STREET ADDRESS	1/4 SECTION TOWNSHIP RANGE
VILLAGE OF OAK BROOK	*PPNo. 24–20–300–023
MUNICIPALITY	GINGER CREEK
	NAME OF RECEIVING WATERS

OWNER/DEVELOPER CERTIFICATION

OAK BROOK PARK DISTRICT – CENTRAL PARK
1450 FOREST GATE ROAD
OAK BROOK, IL 60523

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERTY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SIGNED: _____ DATE: _____
OWNER/DEVELOPER

CONTRACTOR'S CERTIFICATION

OAK BROOK PARK DISTRICT – CENTRAL PARK
1450 FOREST GATE ROAD
OAK BROOK, IL 60523

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. I HAVE READ AND UNDERSTAND ALL OF THE INFORMATION AND REQUIREMENTS STATED IN THE STORM WATER POLLUTION PREVENTION PLANS FOR THE ABOVE REFERENCED PROJECT.

SIGNED: _____ DATE: _____
CONSTRUCTION MANAGER

NAME: _____ TITLE: _____

FIRM: _____

ADDRESS: _____ TELEPHONE: _____

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Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

OAK BROOK PARK DISTRICT 1450 Forest Gate Road Oak Brook, IL 60523

ISSUED FOR BID 12-6-17

REV	DESCRIPTION	DATE
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD OAK BROOK, IL 60523

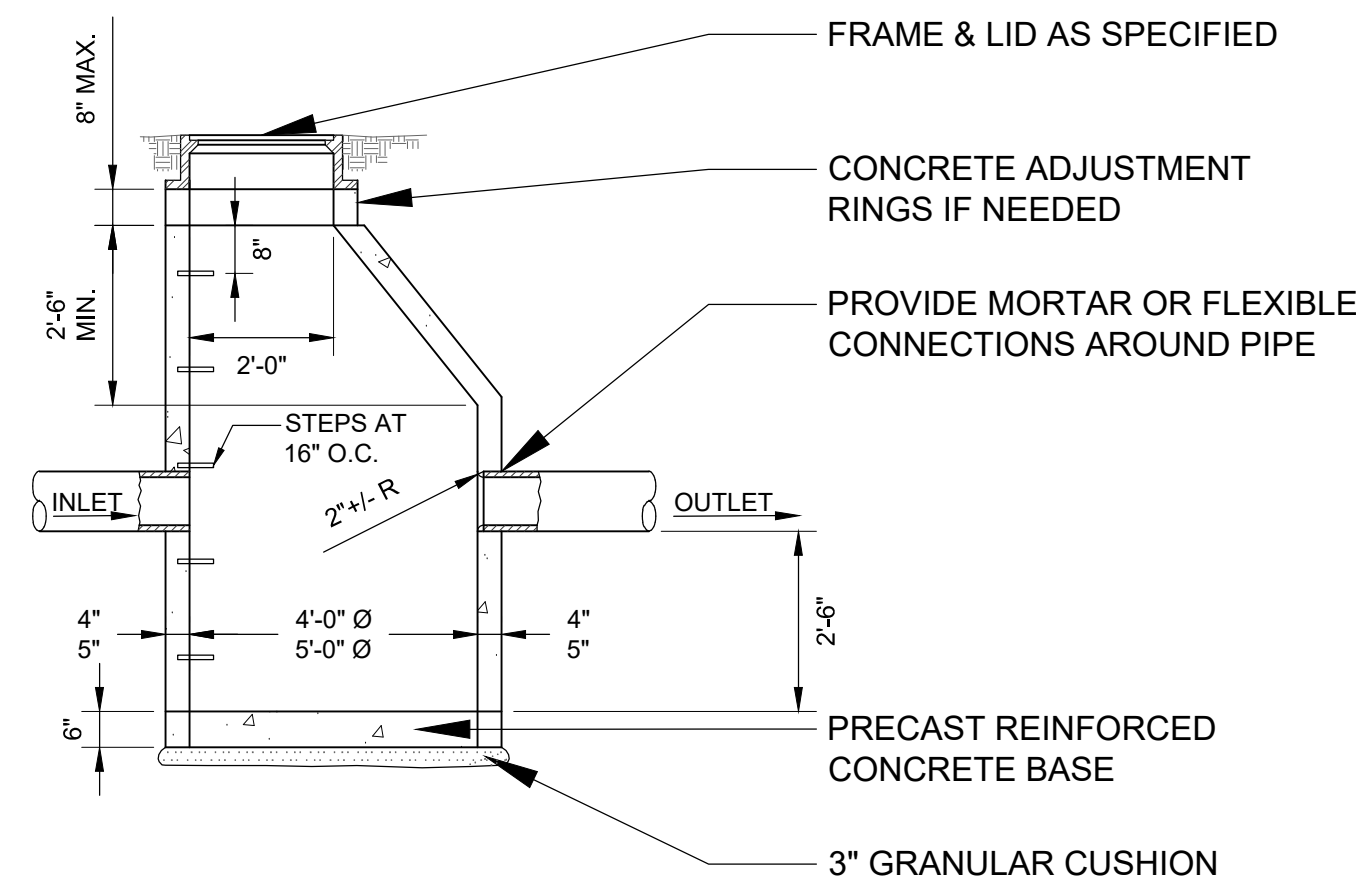
STORM WATER POLLUTION PREVENTION PLAN

Project Number:
5646-03
Drawn By:

Sheet:

SD3.10

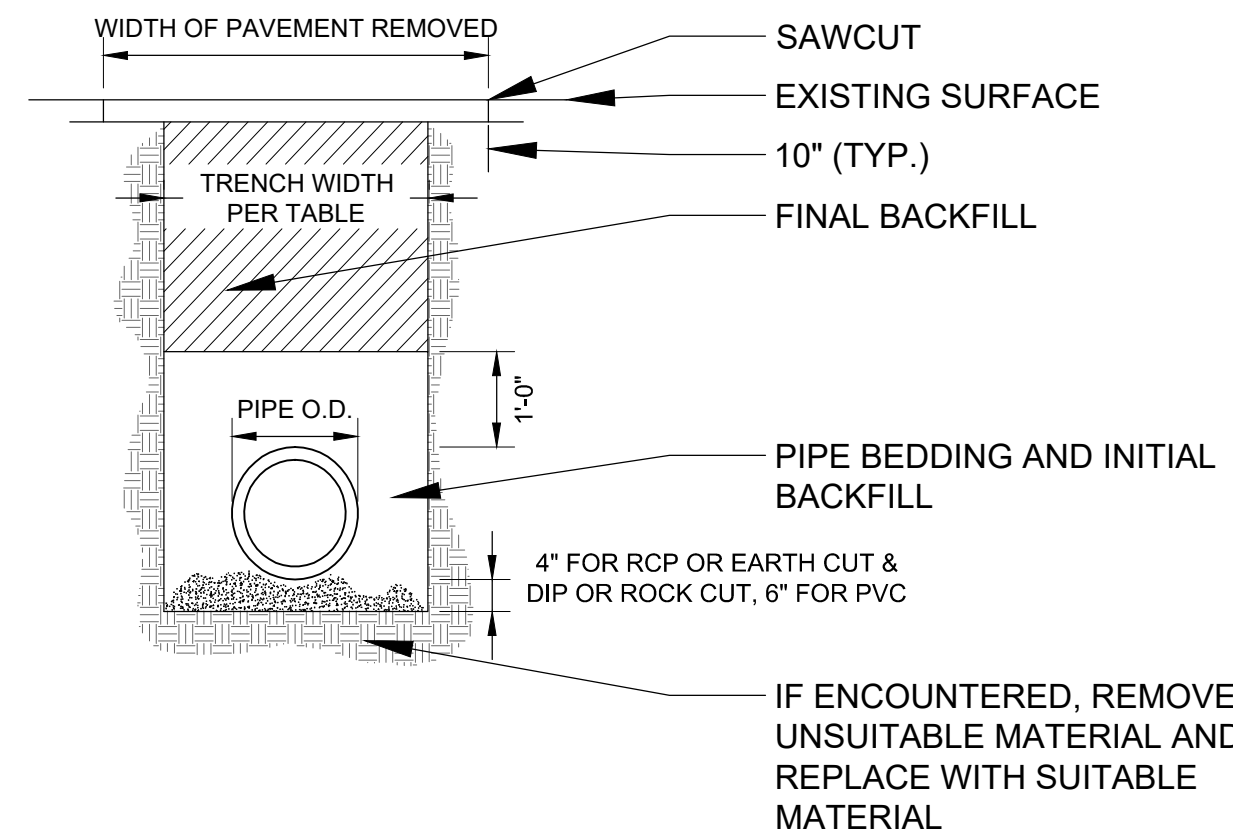
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NOTES:

- CATCH BASINS SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS UNLESS OTHERWISE SPECIFIED.
- PIPE OPENINGS, AS INDICATED ON THE PLANS, SHALL BE CAST INTO THE WALL SECTIONS.
- ALL CATCH BASINS SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
- ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
- MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
- STEPS SHALL BE IMBEDDED INTO THE WALL A MINIMUM OF 4" AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
- FRAME AND LID CASTING SHALL BE AS SPECIFIED ON THE PLANS.
- THE CONTRACT UNIT PRICE FOR CATCH BASINS SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
- WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS

1 STANDARD CATCH BASIN
SCALE: $\frac{3}{8}" = 1'-0"$



NOTES:

- TRENCH WIDTH - MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS.
- REINFORCING OF RESTORED PAVEMENT MUST MATCH EXISTING.
- RESTORATION TO ORIGINAL SURFACE REQUIRED. NO CONCRETE PATCHES ON ASPHALT ROADS.
- STREETS MUST REMAIN OPEN TO TRAFFIC WORK ON ONLY ONE HALF OF STREET ALLOWED AT A TIME.
- CONTRACTORS SHALL ERECT AND MAINTAIN SUFFICIENT AND SUITABLE SIGNS AND BARRICADES DURING AND AFTER CONSTRUCTION.
- STREETS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION WITHIN 72 HOURS FROM THE TIME THE WORK COMMENCED. STREET OPENINGS SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL AND A TEMPORARY PAVEMENT SURFACE OF COMPACTED COLD ASPHALT MATERIAL SHALL BE INSTALLED WITHIN 24 HOURS FROM THE TIME THE WORK COMMENCED.
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE MUNICIPALITY BEFORE BACKFILLING AND RESTORATION WORK ARE TO COMMENCE.
- RESTORED PAVEMENT TO MEET EXISTING PAVEMENT OR THE FOLLOWING MINIMUMS:

TRENCH WIDTH- MINIMUM TO COMPLY WITH OSHA SAFETY STANDARDS

PIPE SIZE	ALLOWABLE TRENCH WIDTH	MAXIMUM TRENCH WIDTH
6"	3'-2"	3'-2"
8"	3'-2"	3'-2"
10"	3'-2"	3'-2"
12"	3'-4"	3'-4"
15"	3'-6"	3'-6"
18"	3'-8"	3'-8"
21"	4'-4"	4'-4"
24"	4'-8"	4'-8"

PIPE BEDDING & INITIAL BACKFILL:

FOR PVC AND HDPE, CRUSHED STONE (IDOT CA-11 OR CA-13) TO 1 FOOT OVER PIPE. FOR RCP & DIP, CA-6 TO SPRING LINE. PLACE IN MAXIMUM 6" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99.

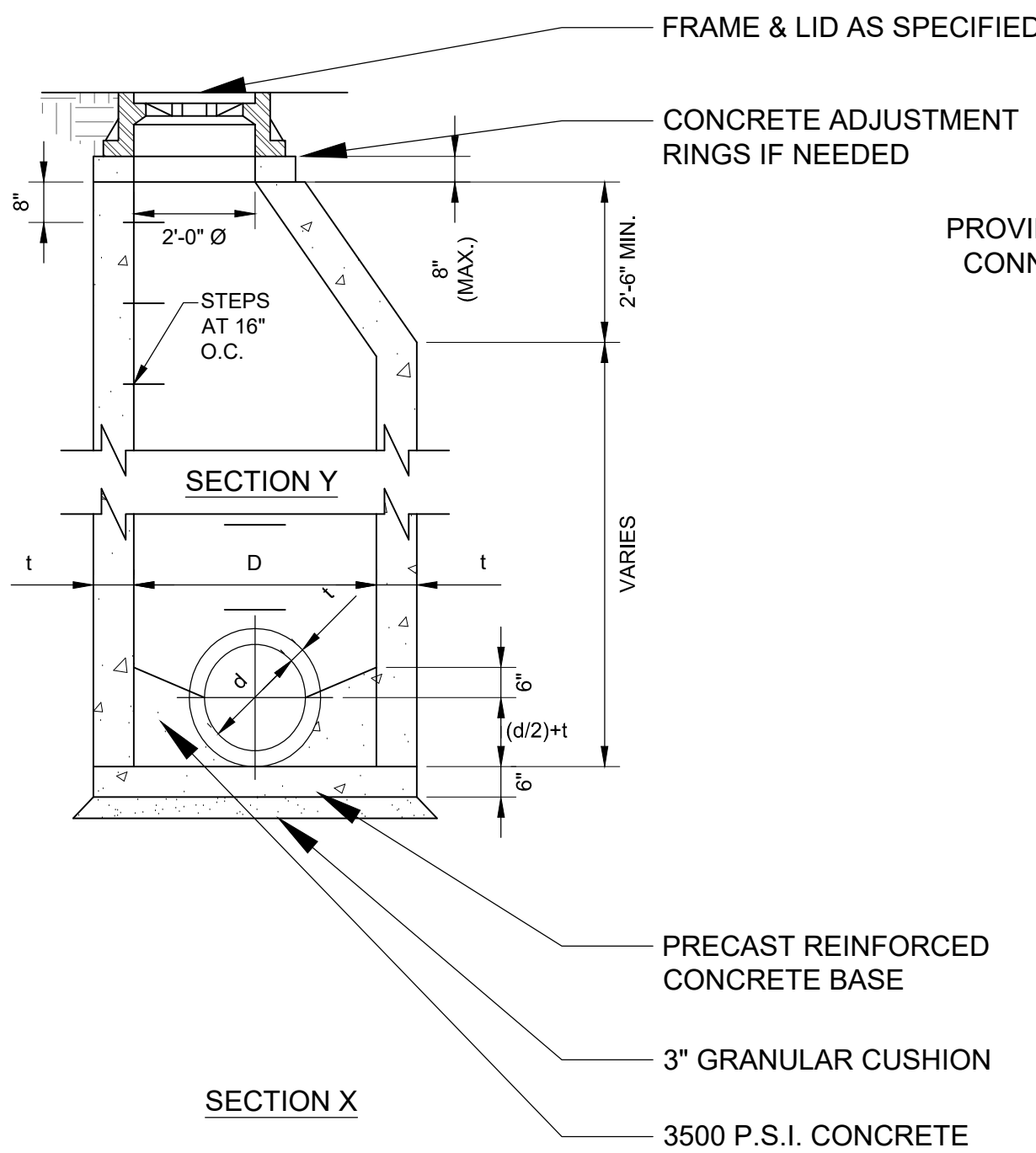
FINAL BACKFILL:

IN PAVEMENT AREAS AND WHERE TRENCH FALLS WITHIN A 1 TO 1 SLOPE EXTENDED FROM THE EDGE OF THE PAVEMENT, MATERIAL SHALL BE TRENCH-BACKFILL (CA-7 PER I.D.O.T. SPECS.) COMPACTED TO 95% STANDARD PROCTOR DENSITY PER AASHTO T-99. IN AREAS WHERE GRASS IS REMOVED AND PARKWAY RESTORATION IS REQUIRED LANDSCAPE FABRIC SHALL BE PLACED BETWEEN THE BACKFILLED MATERIAL AND THE REQUIRED TOPSOIL AS DIRECTED BY THE MUNICIPAL DIRECTOR OF PUBLIC WORKS. IN LANDSCAPE AREAS MATERIAL SHALL BE SELECT, EXCAVATED MATERIAL, FREE OF ROCKS AND DEBRIS COMPACTED TO 85% STANDARD PROCTOR DENSITY PER AASHTO T-99.

UTILITY CROSSINGS:

AT UTILITY CROSSINGS, INSTALL TRENCH BACKFILL, AS ABOVE, FROM THE PIPE BEDDING TO 1 FOOT OVER THE HIGHER PIPE. SUCH A GRANULAR CRADLE SHALL BE CONSTRUCTED REGARDLESS OF WHETHER THE CROSSING OCCURS IN PAVED OR LANDSCAPED AREAS. WHERE UTILITY CROSSINGS INCLUDE A WATER MAIN, USE CLASS IV COMPACTED SELECT EXCAVATED MATERIAL BETWEEN PIPES AS REQUIRED BY THE STANDARD SPECIFICATIONS FOR SEWER & WATER MAIN CONSTRUCTION IN ILLINOIS, STANDARD DRAWINGS 19 THROUGH 24.

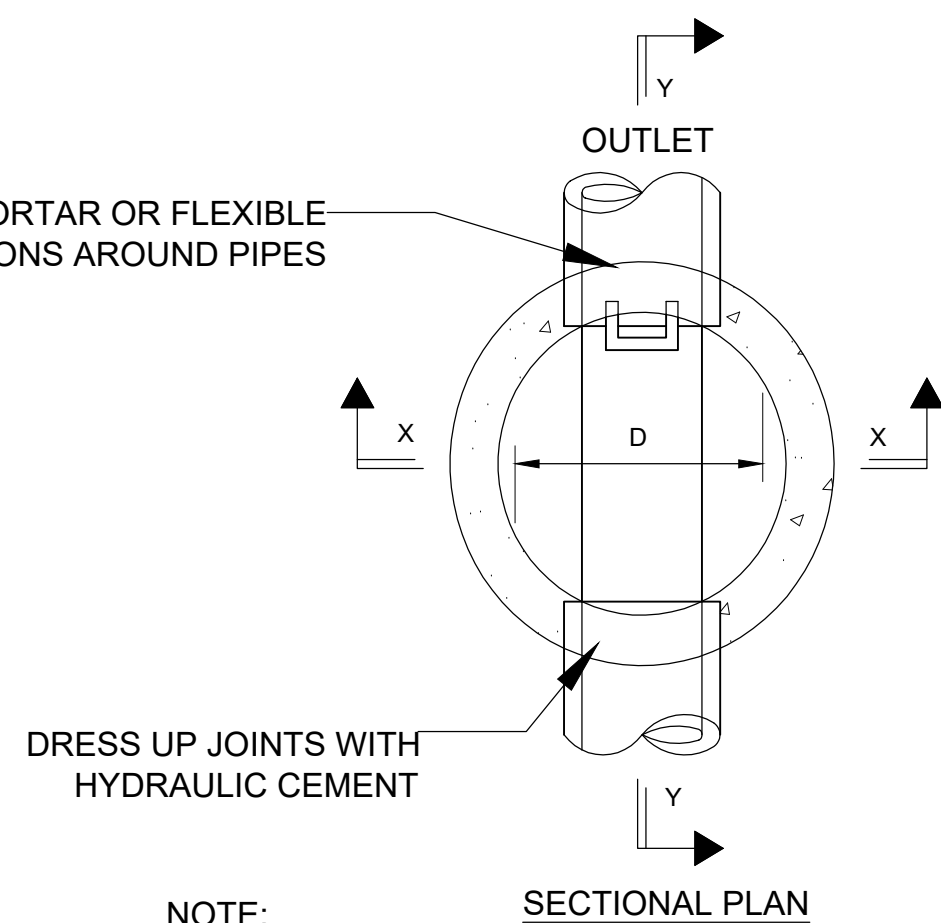
2 PIPE BEDDING AND BACKFILL
SCALE: $\frac{1}{2}" = 1'-0"$



NOTES:

- ALL MANHOLES SHALL BE OF PRECAST REINFORCED CONCRETE SECTIONS.
- PIPE OPENINGS SHALL BE CAST INTO WALL.
- ALL MANHOLES SHALL BE CONSTRUCTED WITH A PRECAST REINFORCED CONCRETE BASE.
- ALL JOINTS BETWEEN PRECAST RISER, TOP SLAB SECTIONS, ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH A BITUMASTIC MATERIAL.
- MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
- STEPS SHALL BE IMBEDDED INTO THE WALL A MINIMUM OF 4 INCHES AND SHALL NOT BE EXTENDED ON THE OUTSIDE.
- FRAME AND LID CASTINGS SHALL BE AS SPECIFIED ON THE PLANS. THE WORD "STORM" SHALL BE CAST IN THE LID.
- THE CONTRACT UNIT PRICE FOR MANHOLES SHALL INCLUDE THE FRAME AND LID, STEPS AND THE GRANULAR CUSHION.
- WHERE A FLAT TOP IS REQUIRED, IT SHALL BE PRECAST AND CONFORM TO IDOT STANDARDS.

3 STORM SEWER MANHOLE
SCALE: $\frac{3}{8}" = 1'-0"$

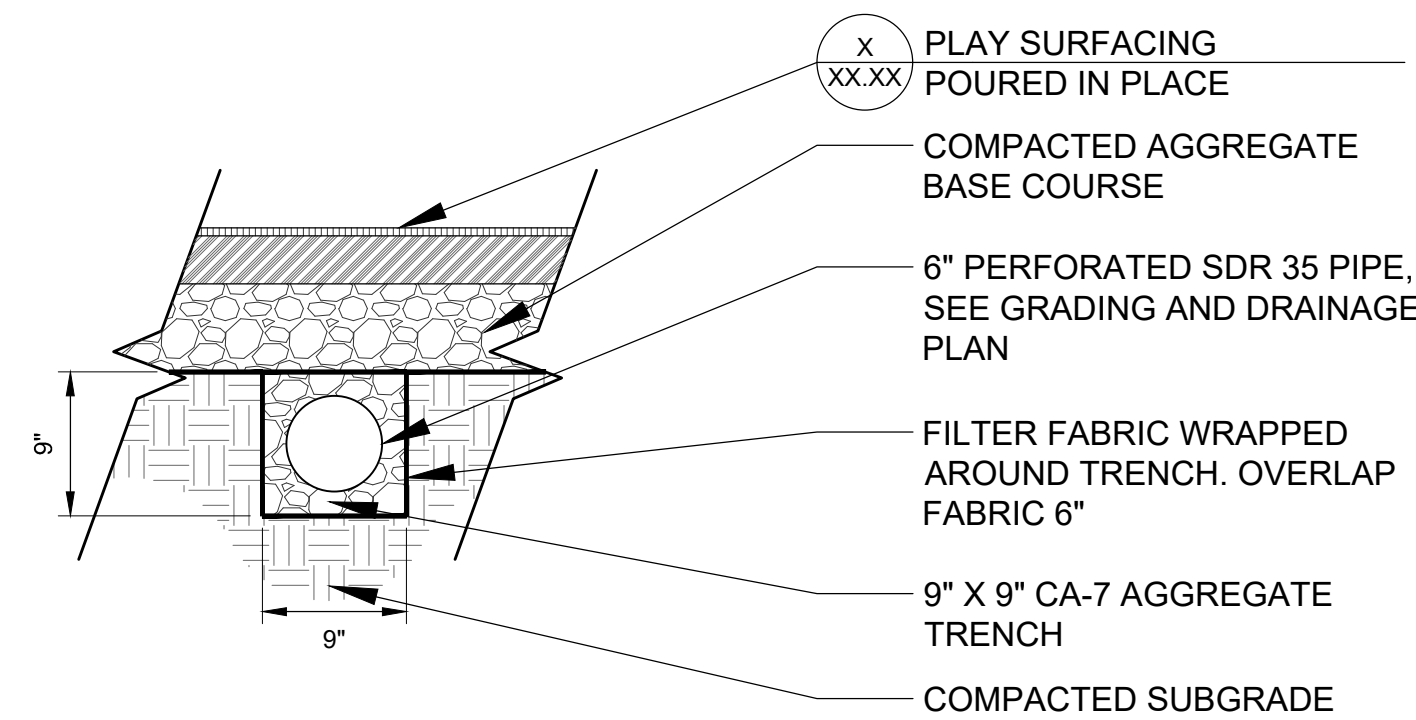


NOTE:

PROVIDE SELECT GRANULAR BACKFILL, CA-7, AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS

DIAMETER OF MAIN SEWER	D	t
24" AND UNDER	4'-0"	4"
24" TO 36" INCLUSIVE	5'-0"	5"
36" TO 42"	6'-0"	6"

4 PLAYGROUND UNDERDRAIN
SCALE: 1" = 1'-0"



Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

OAK BROOK PARK DISTRICT
1450 Forest Gate Road
Oak Brook, IL 60523

REV	DESCRIPTION	DATE
	ISSUED FOR BID	12-6-17

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
OAK BROOK, IL 60523

DETAILS

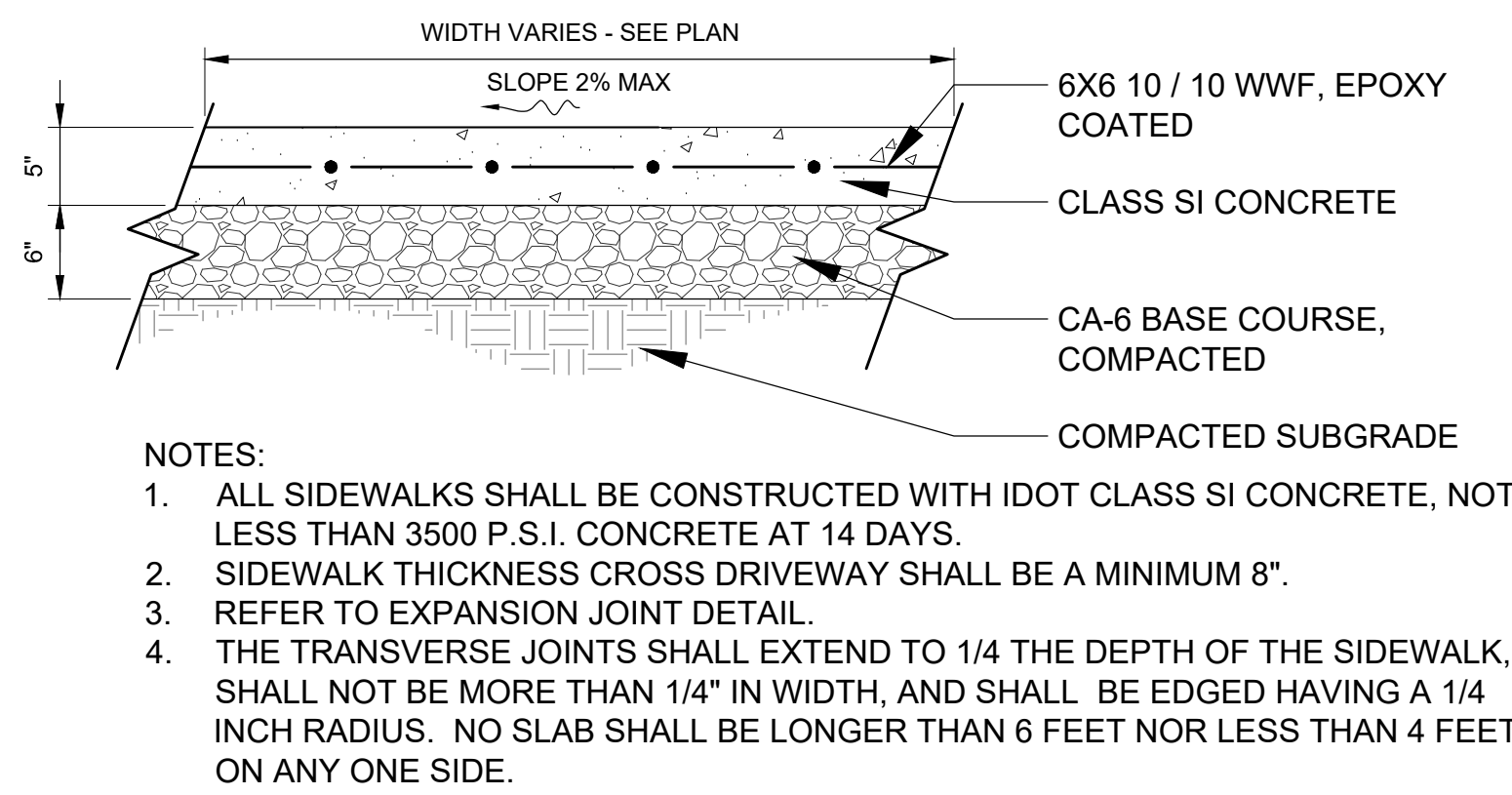
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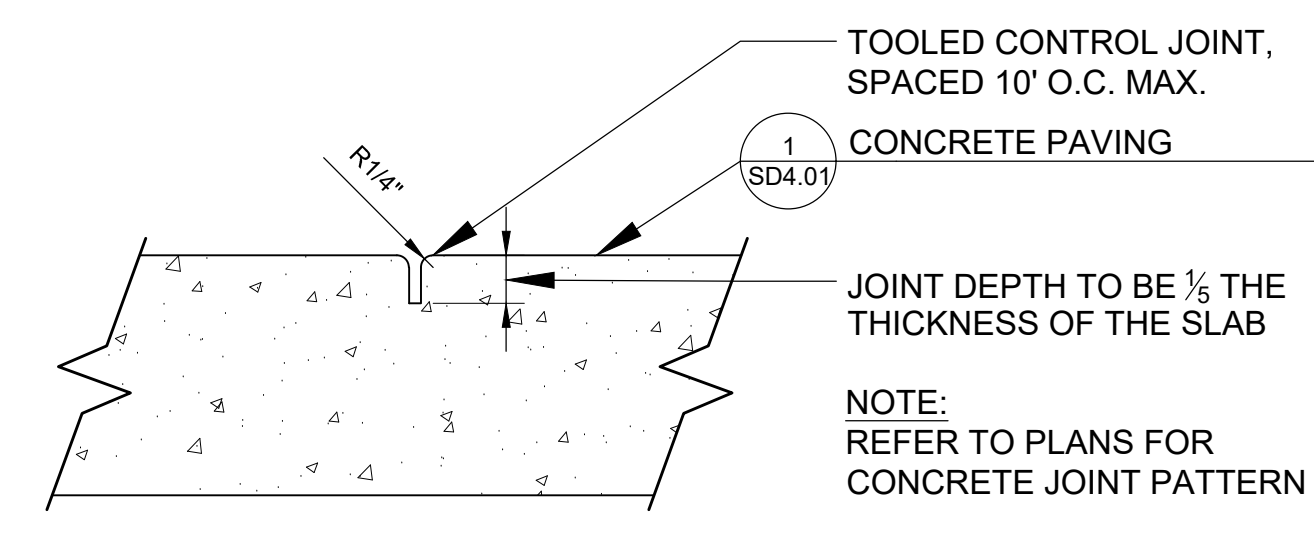
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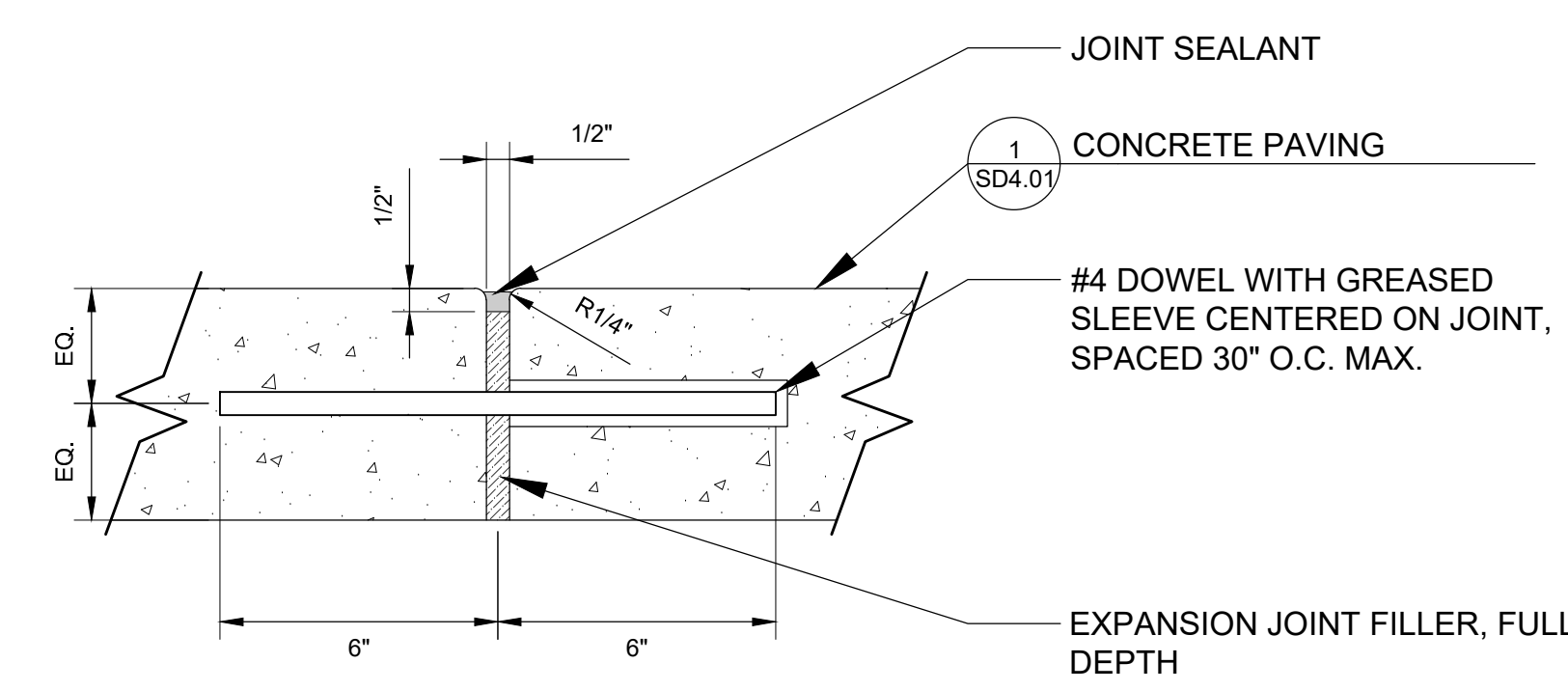
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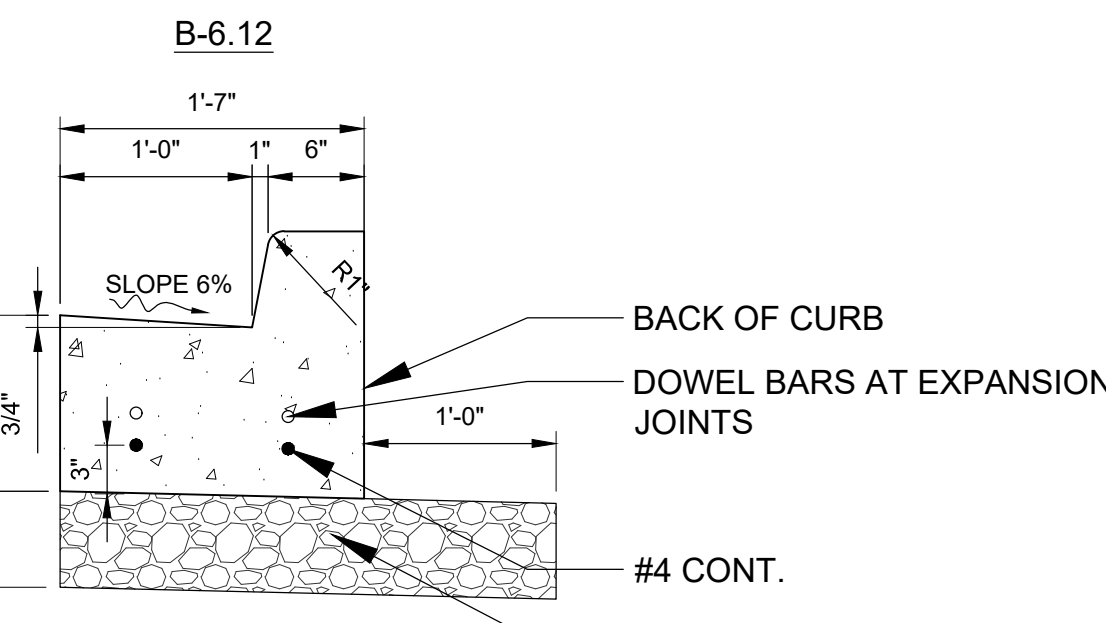
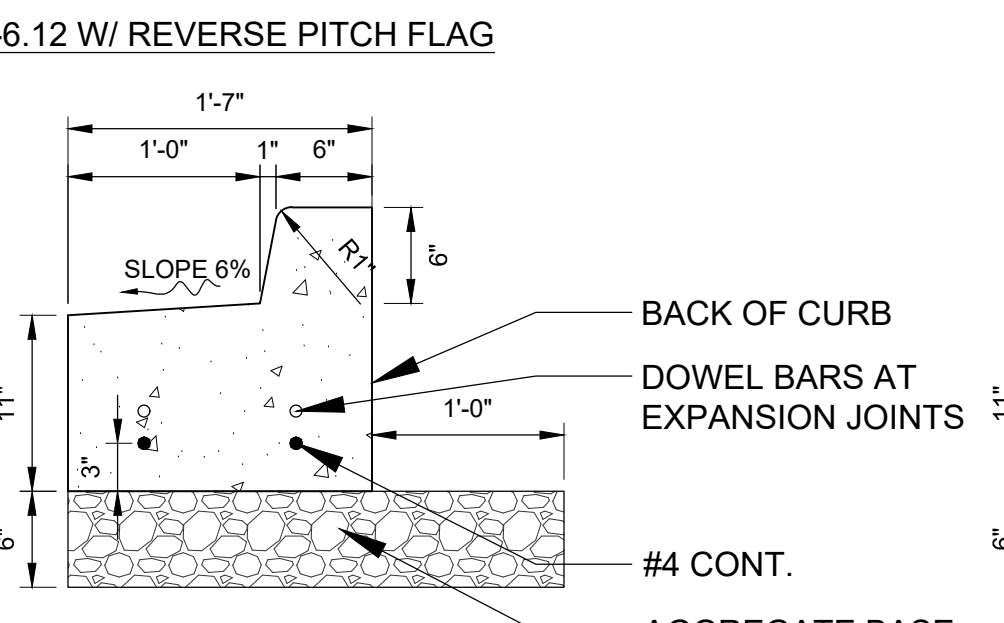
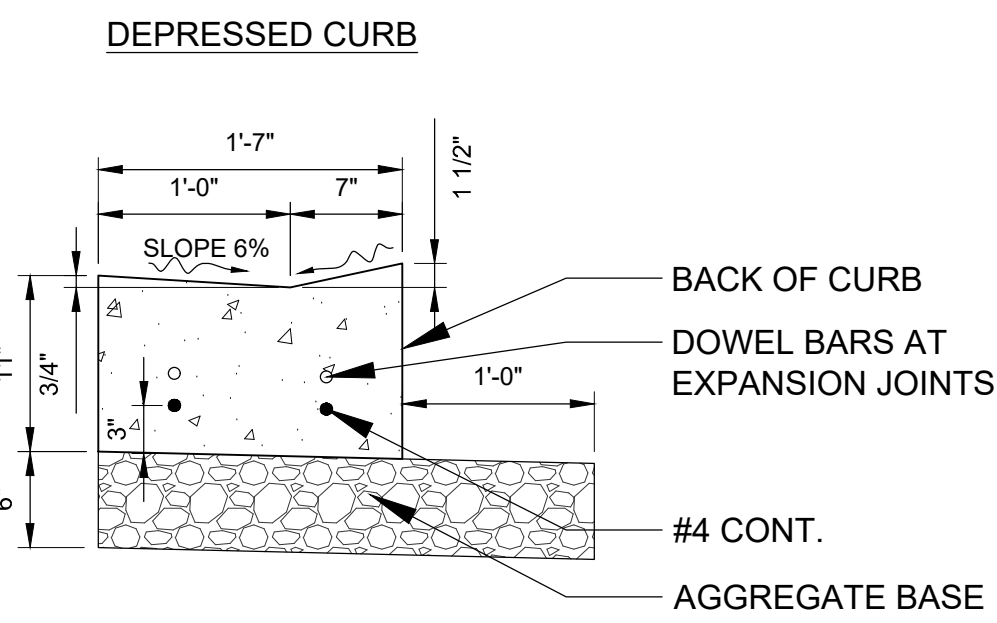
1 CONCRETE SIDEWALK
 SCALE: 1" = 1'-0"



2 CONTROL JOINT
 SCALE: 3" = 1'-0"

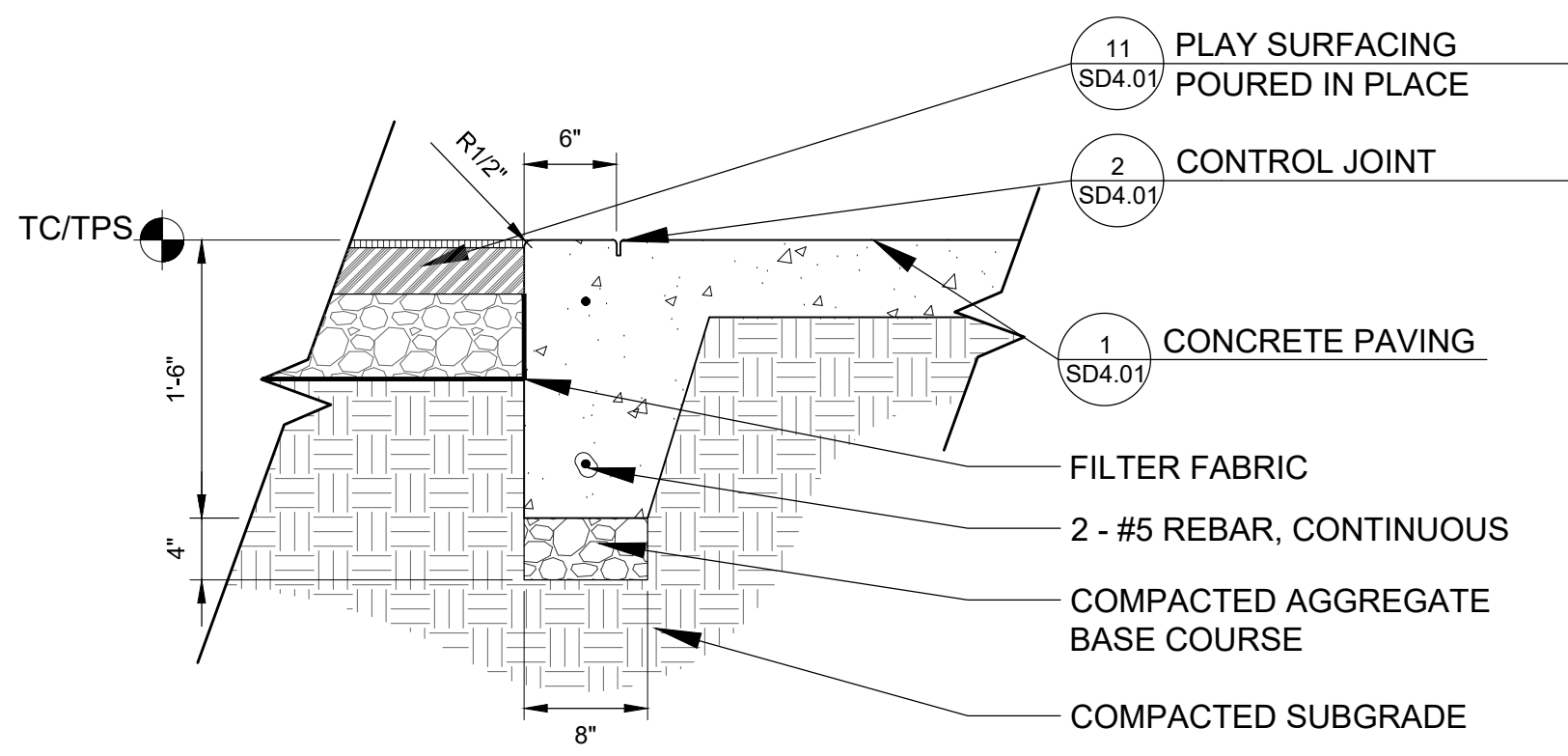


3 EXPANSION JOINT
 SCALE: 3" = 1'-0"

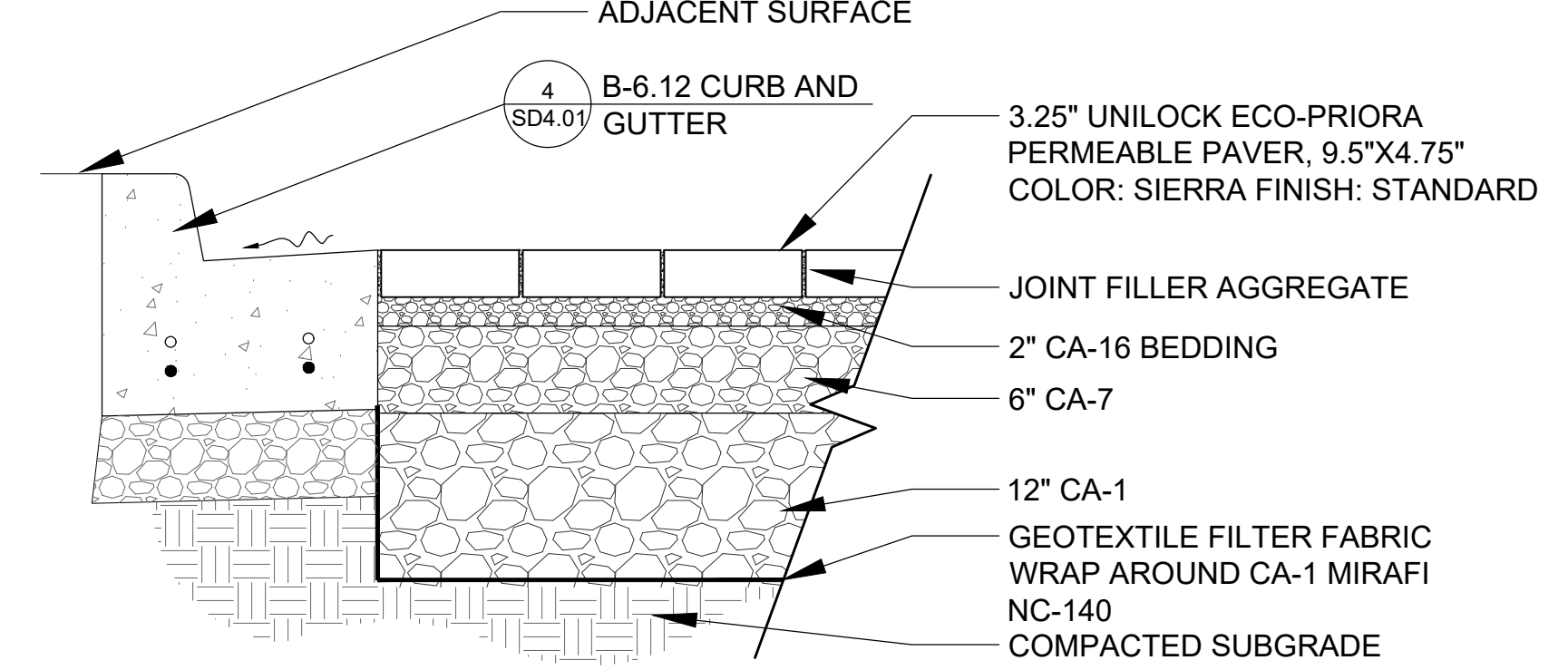
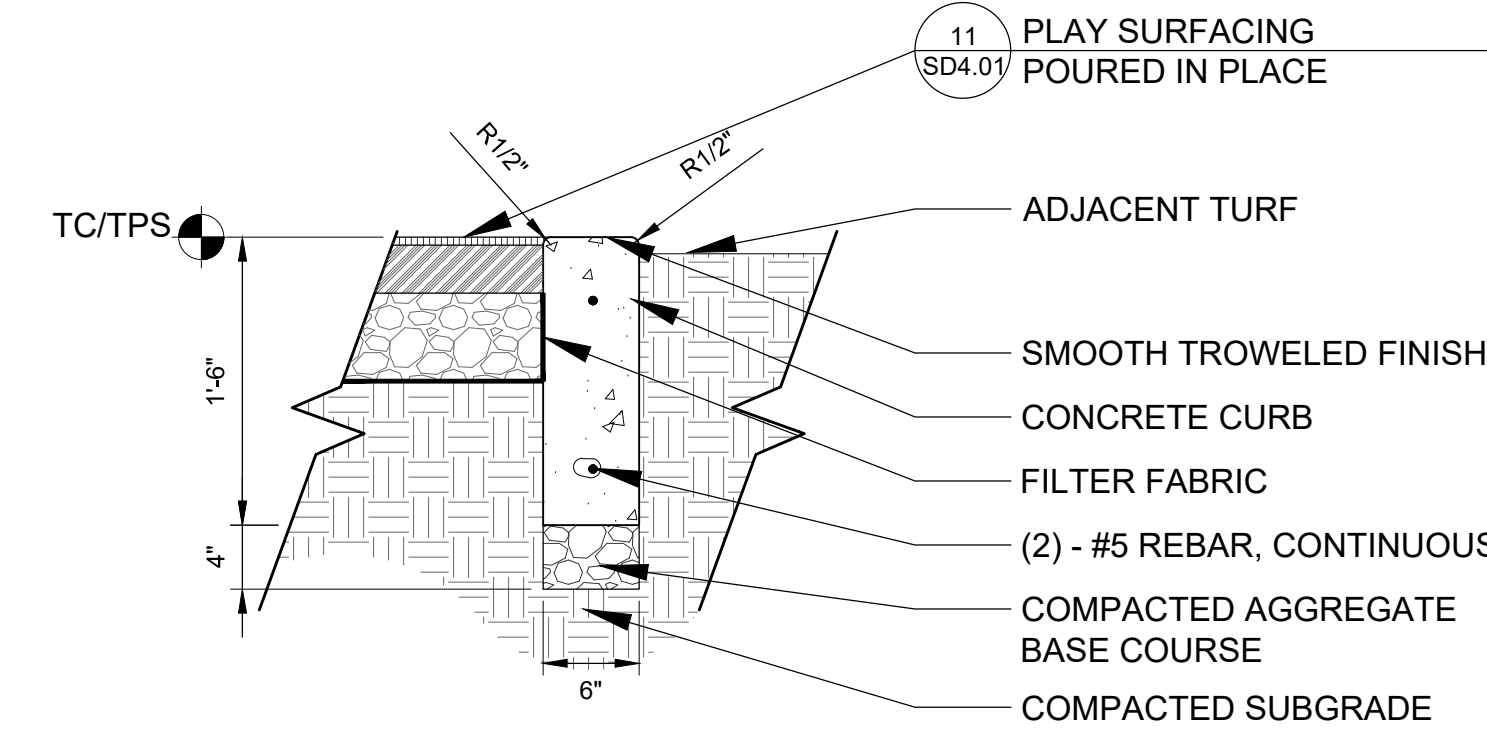


- NOTES:**
1. ALL CURB AND GUTTER SHALL BE CONSTRUCTED W/ IDOT CLASS SI CONCRETE.
 2. REFER TO EXPANSION JOINT DETAIL.
 3. CONSTRUCTION JOINTS SHALL BE AT 20 OR 25 FT. INTERVALS DEPENDING ON TYPE OF POUR. REFER TO EXPANSION JOINT DETAIL.
 4. JOINTS SHALL BE CONSTRUCTED IN COMPLIANCE WITH IDOT STANDARDS & DETAILS.
 5. ALL CURB AND GUTTER SHALL BE DOWELLED INTO EXISTING CURB AND GUTTER THAT HAS BEEN SAWCUT AND REMOVED.

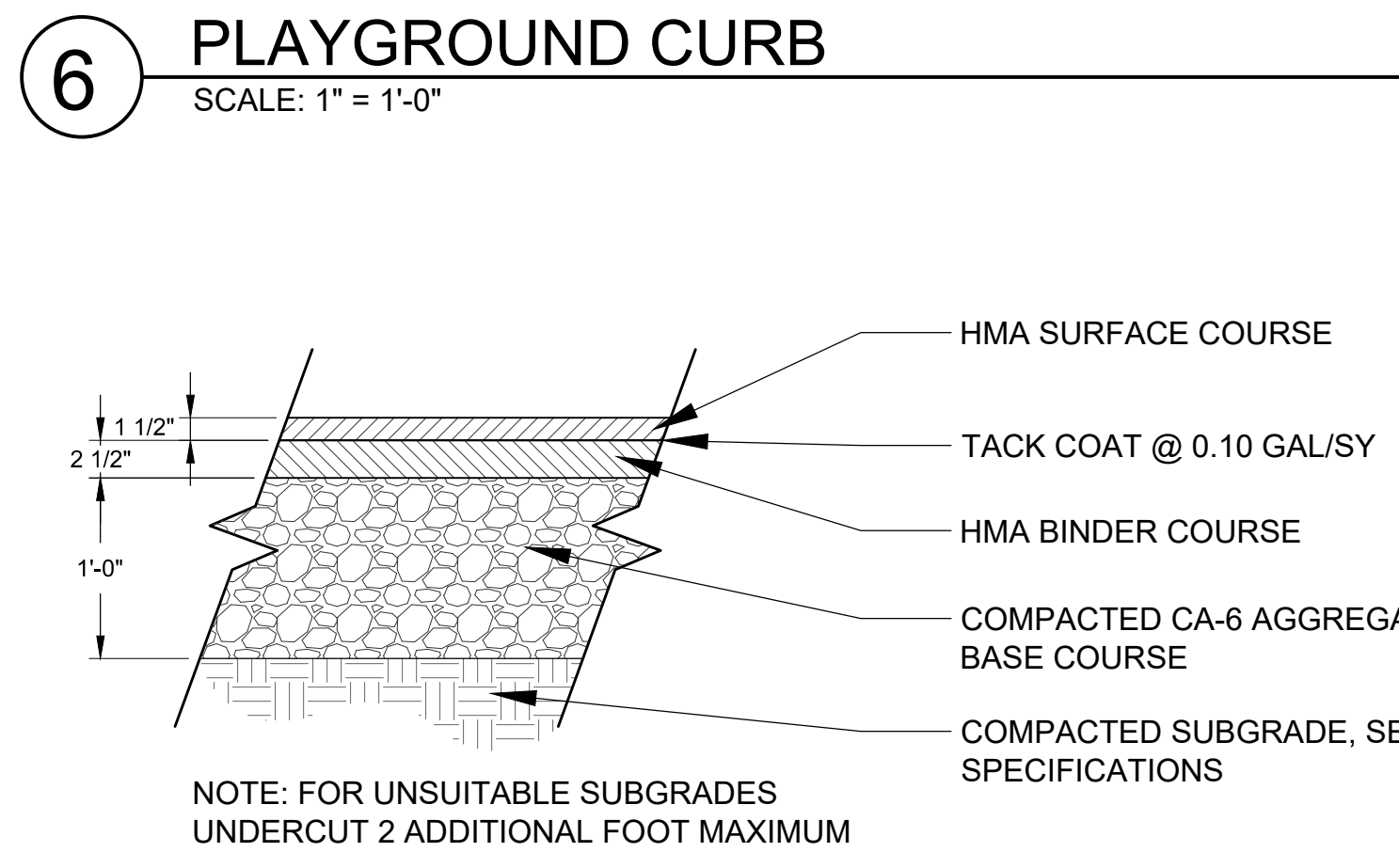
4 B-6.12 CURB AND GUTTER
 SCALE: 1" = 1'-0"



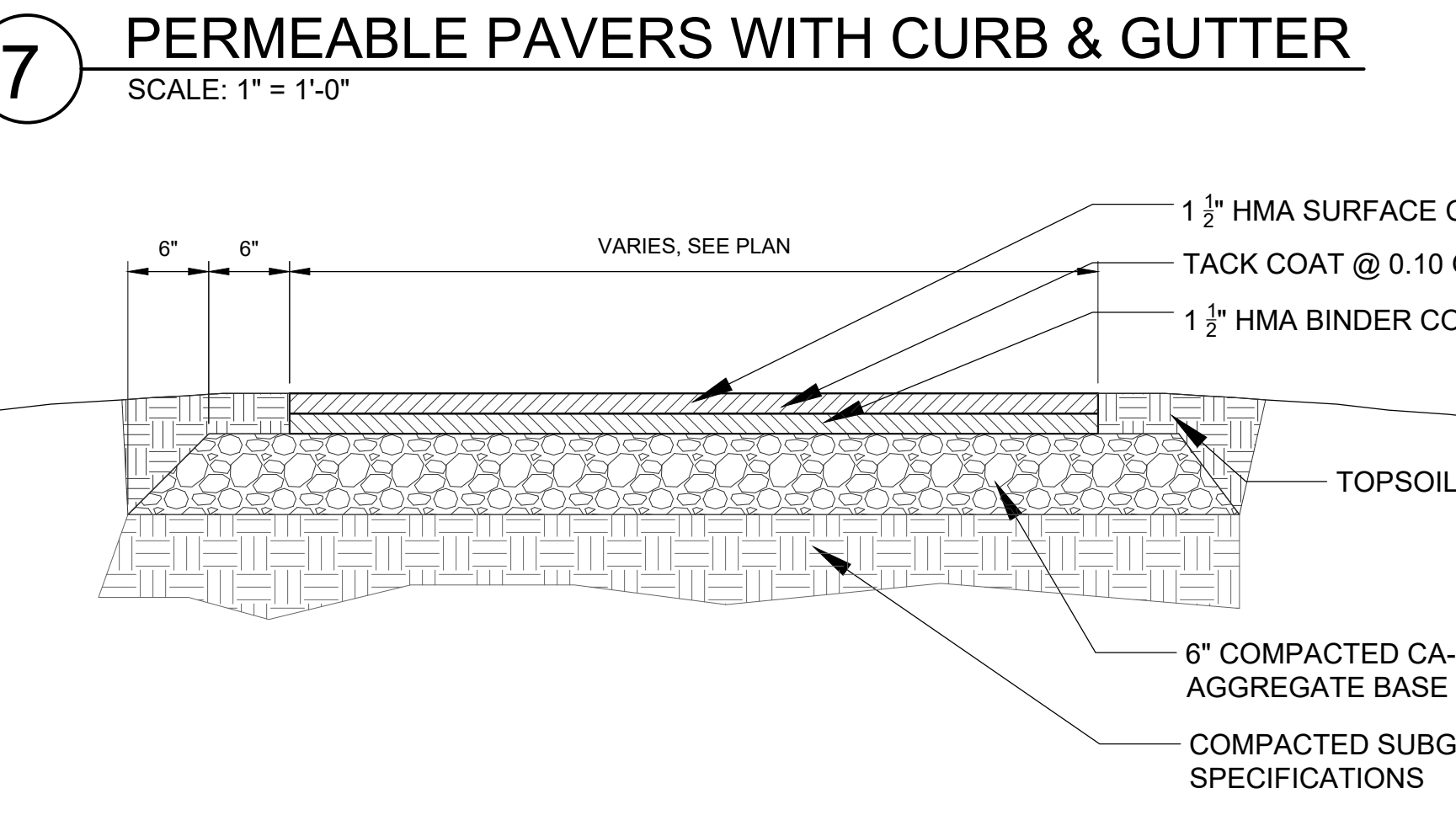
5 THICKENED EDGE CONCRETE WALK
 SCALE: 1" = 1'-0"



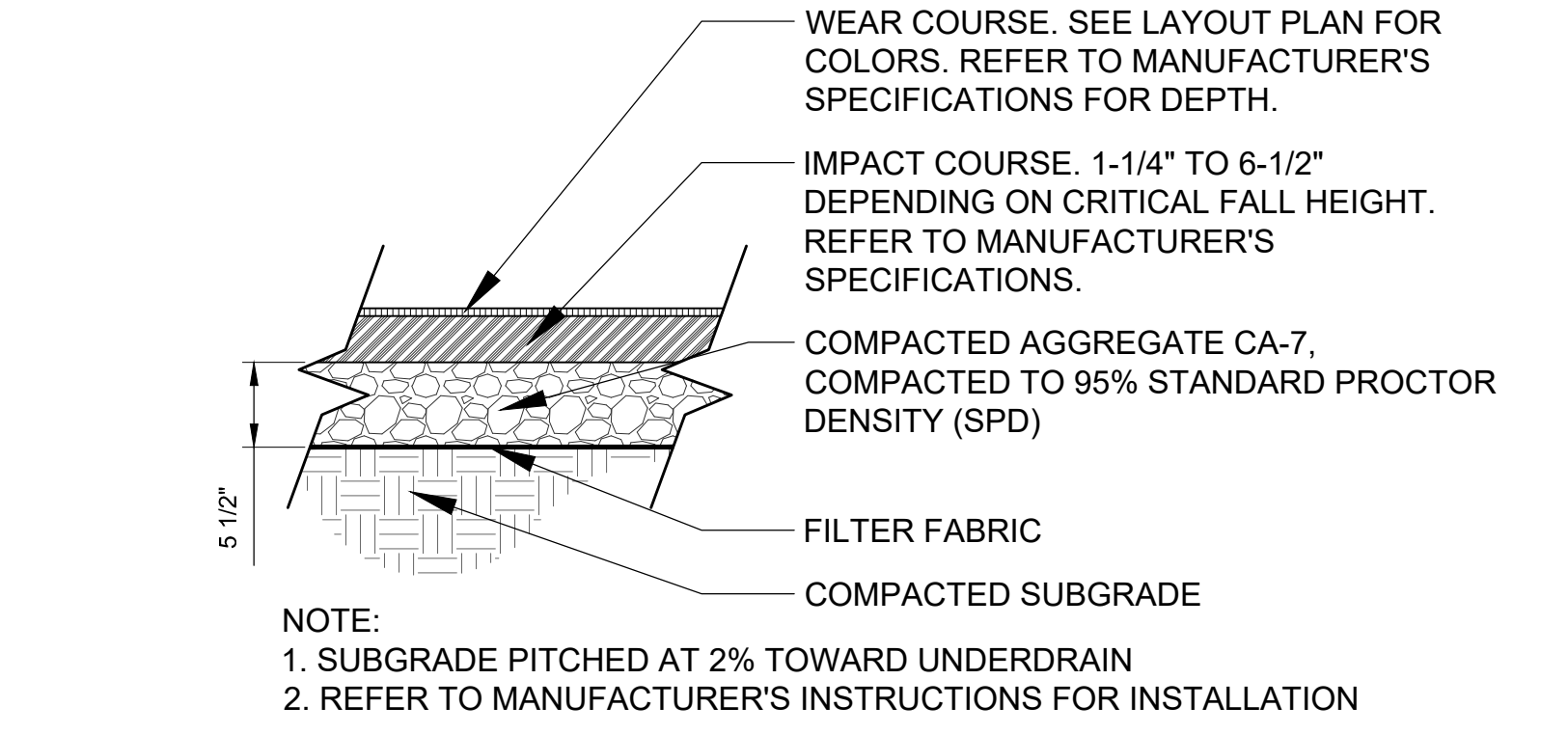
8 PERMEABLE PAVERS & FLUSH CURB
 SCALE: 1" = 1'-0"



9 HMA PAVEMENT SECTION - PARKING
 SCALE: 1" = 1'-0"



10 ASPHALT PAVING - PEDESTRIAN
 SCALE: 1" = 1'-0"



11 PLAY SURFACING - POURED IN PLACE
 SCALE: 1" = 1'-0"

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Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
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 F 630.969.7979

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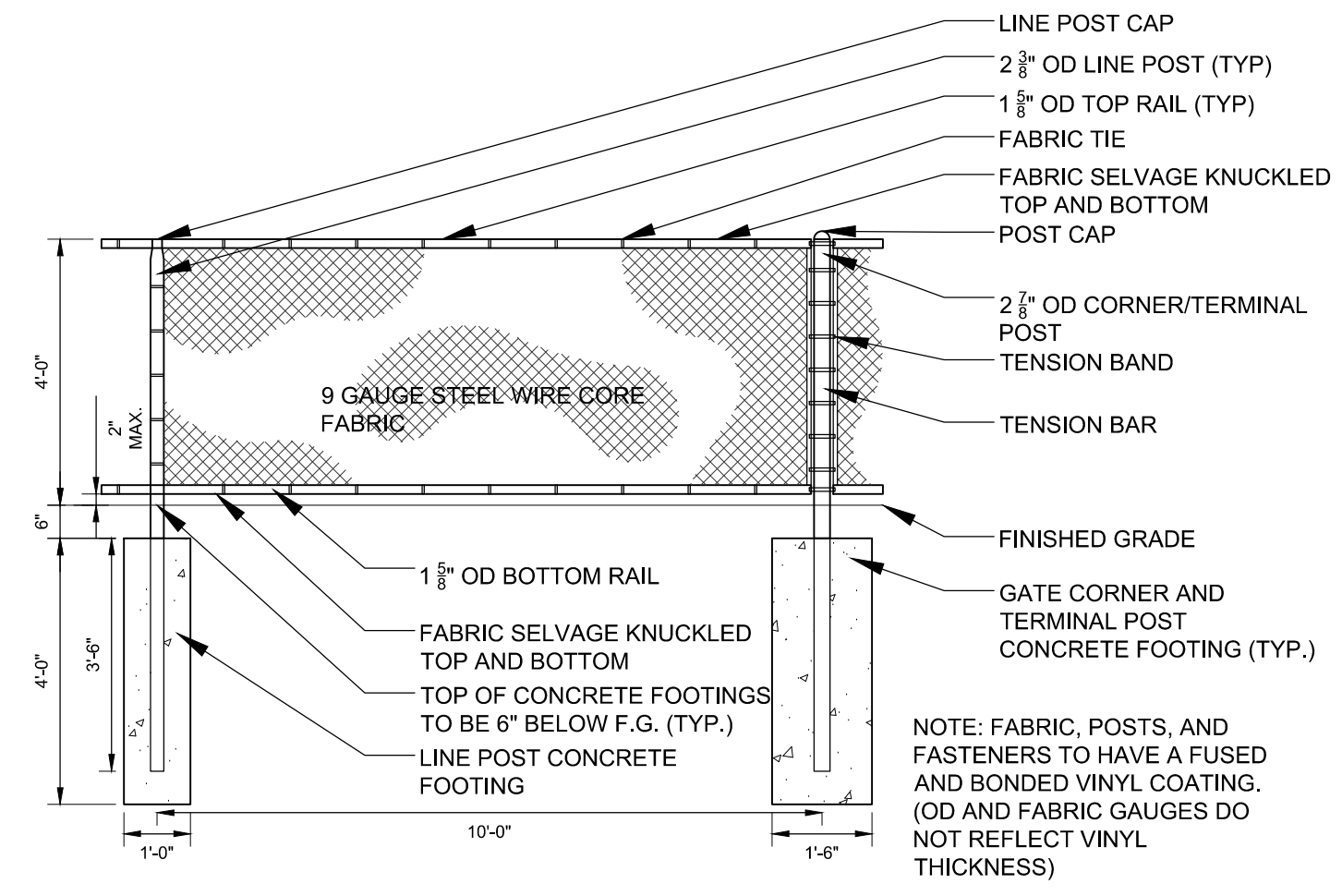
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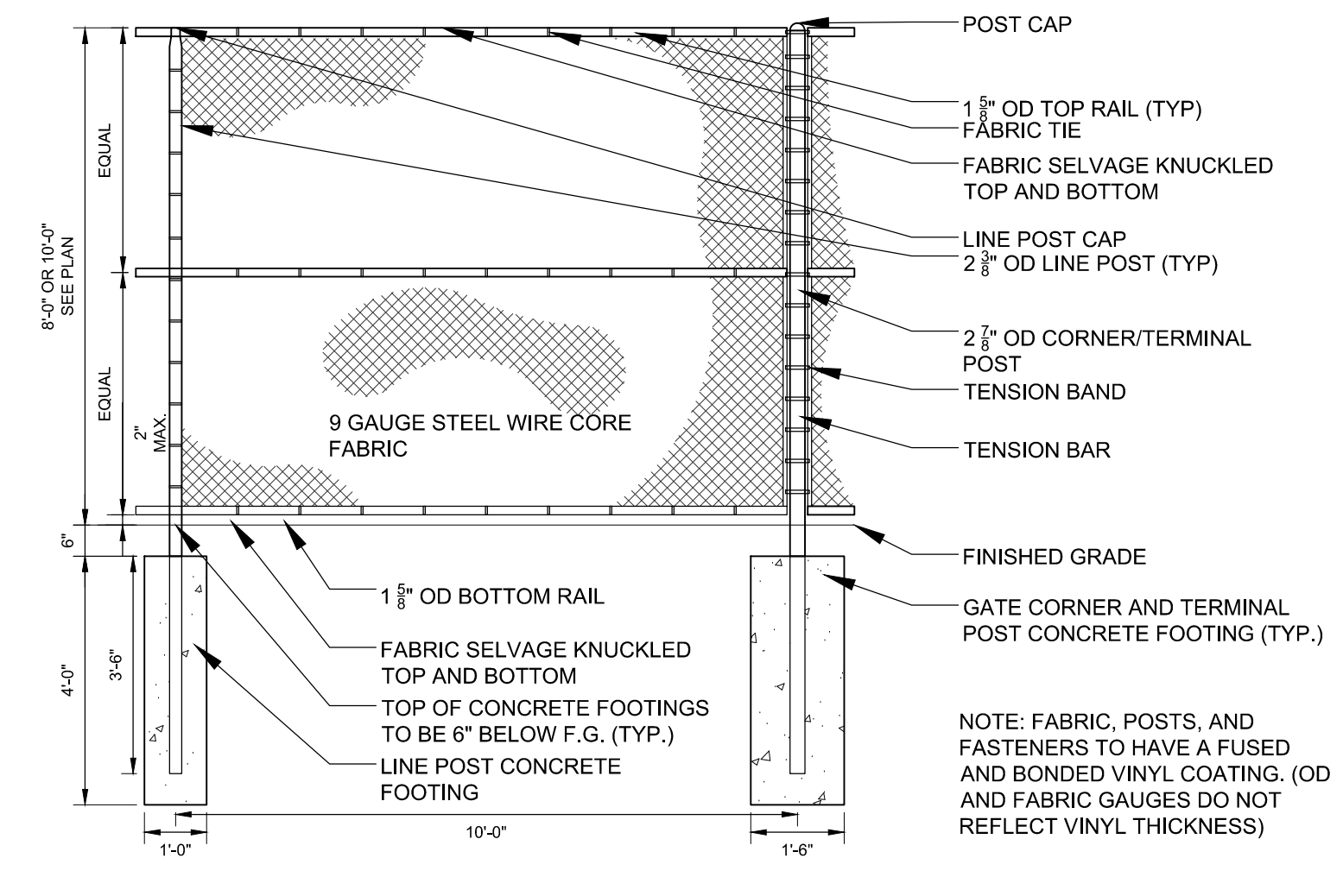
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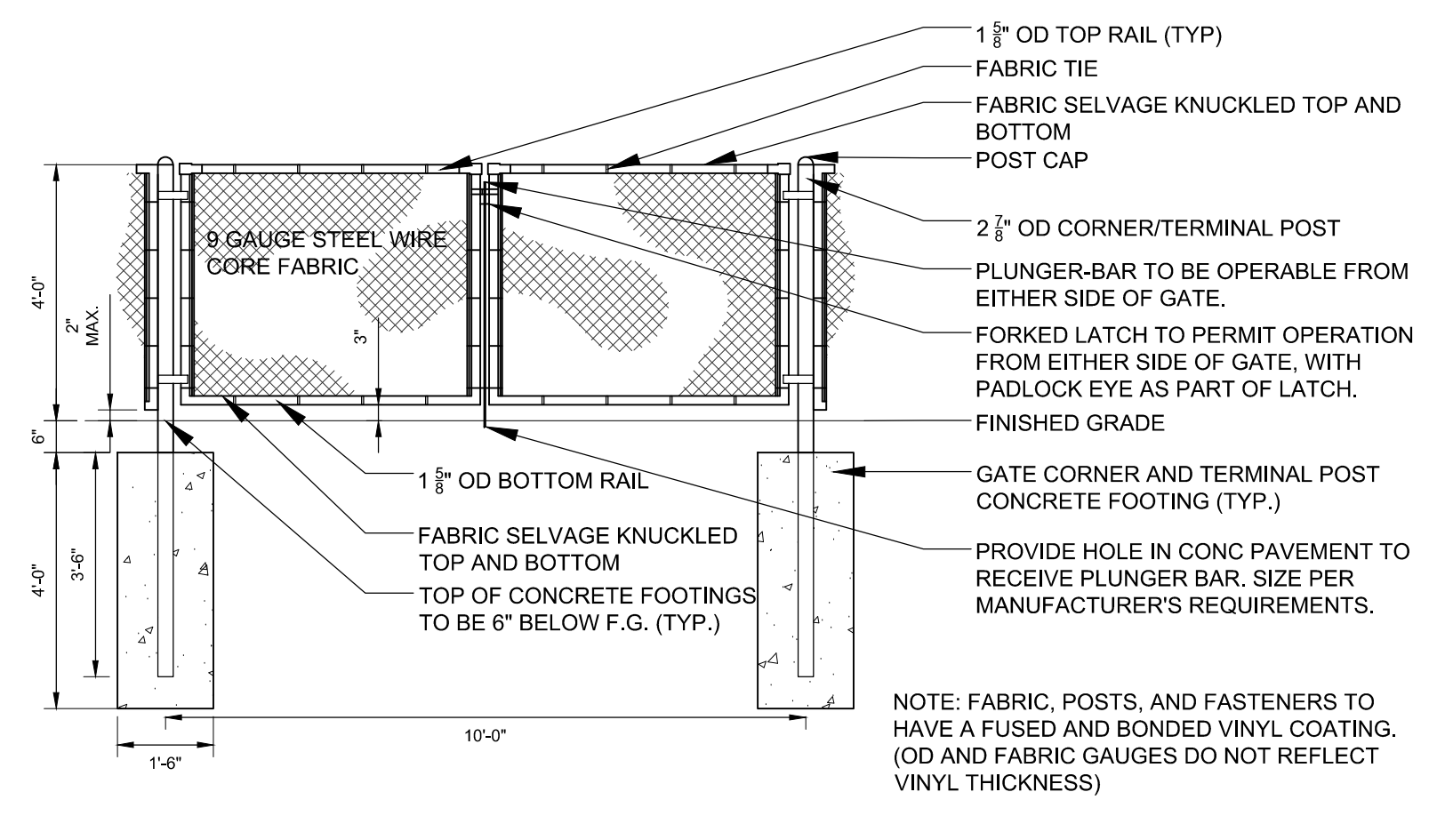
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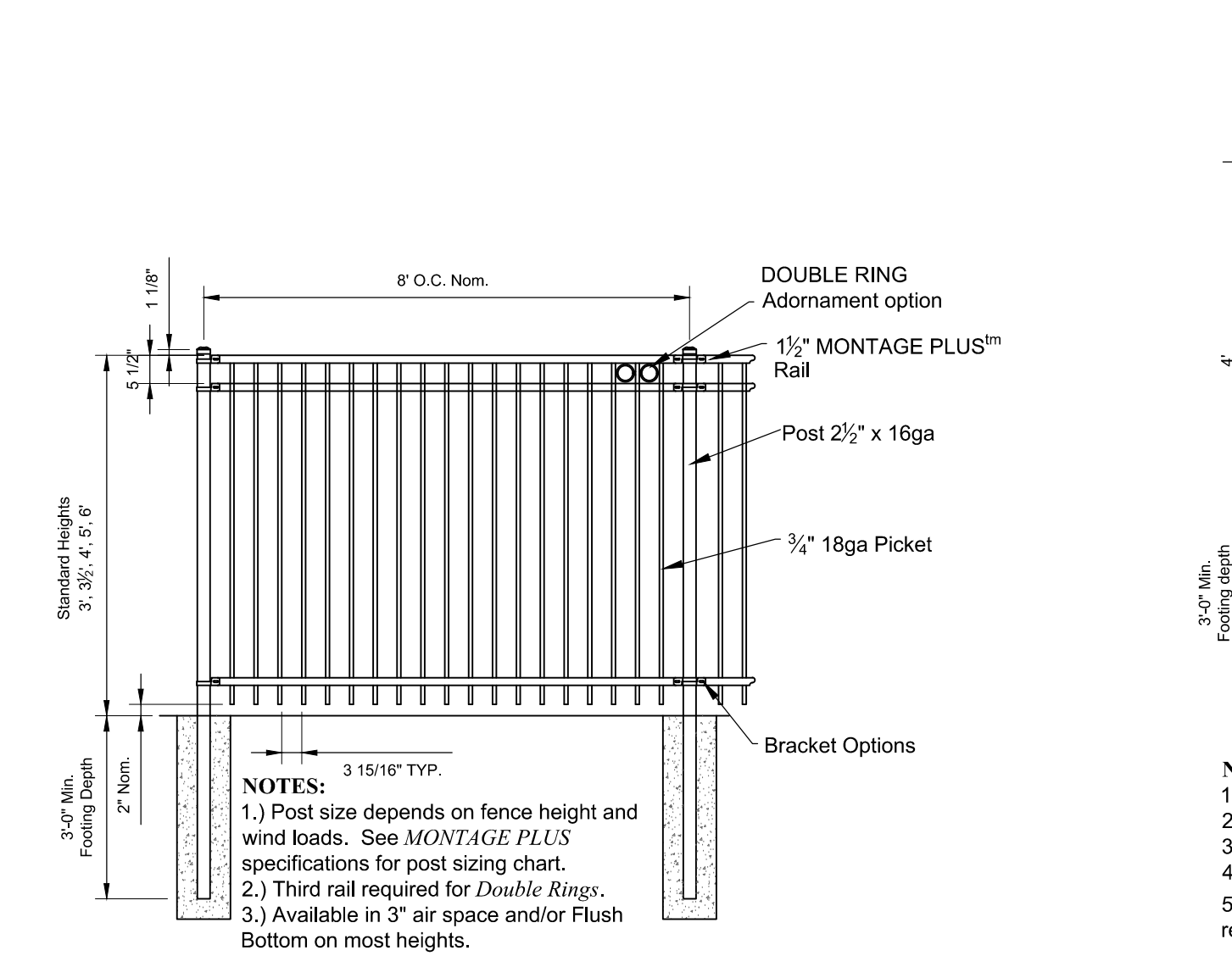
1 4' HT VINYL COATED CHAIN-LINK FENCE
 SCALE: 3/8" = 1'-0"



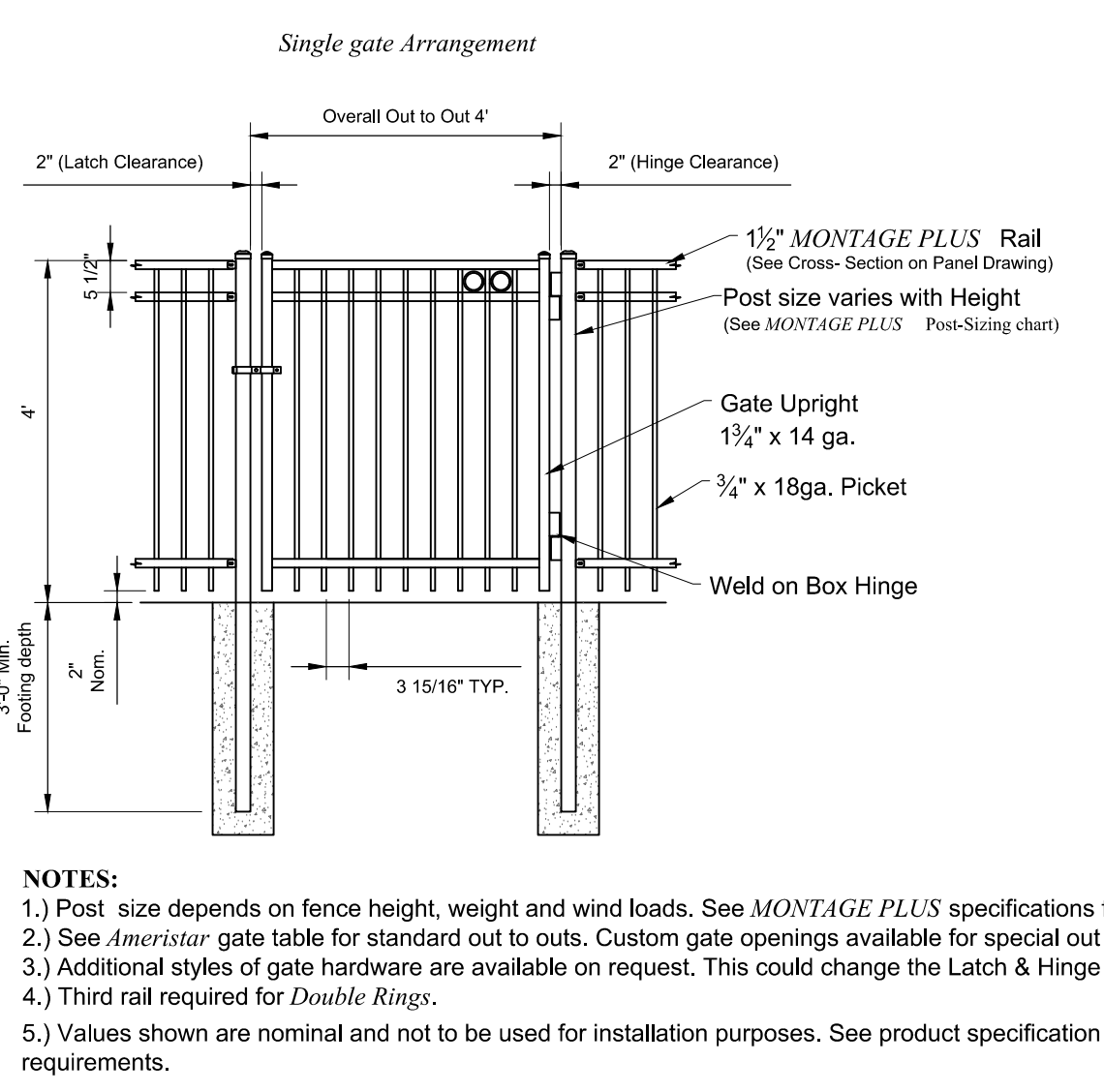
2 8' OR 10' HT VINYL COATED CHAIN-LINK FENCE
 SCALE: 3/8" = 1'-0"



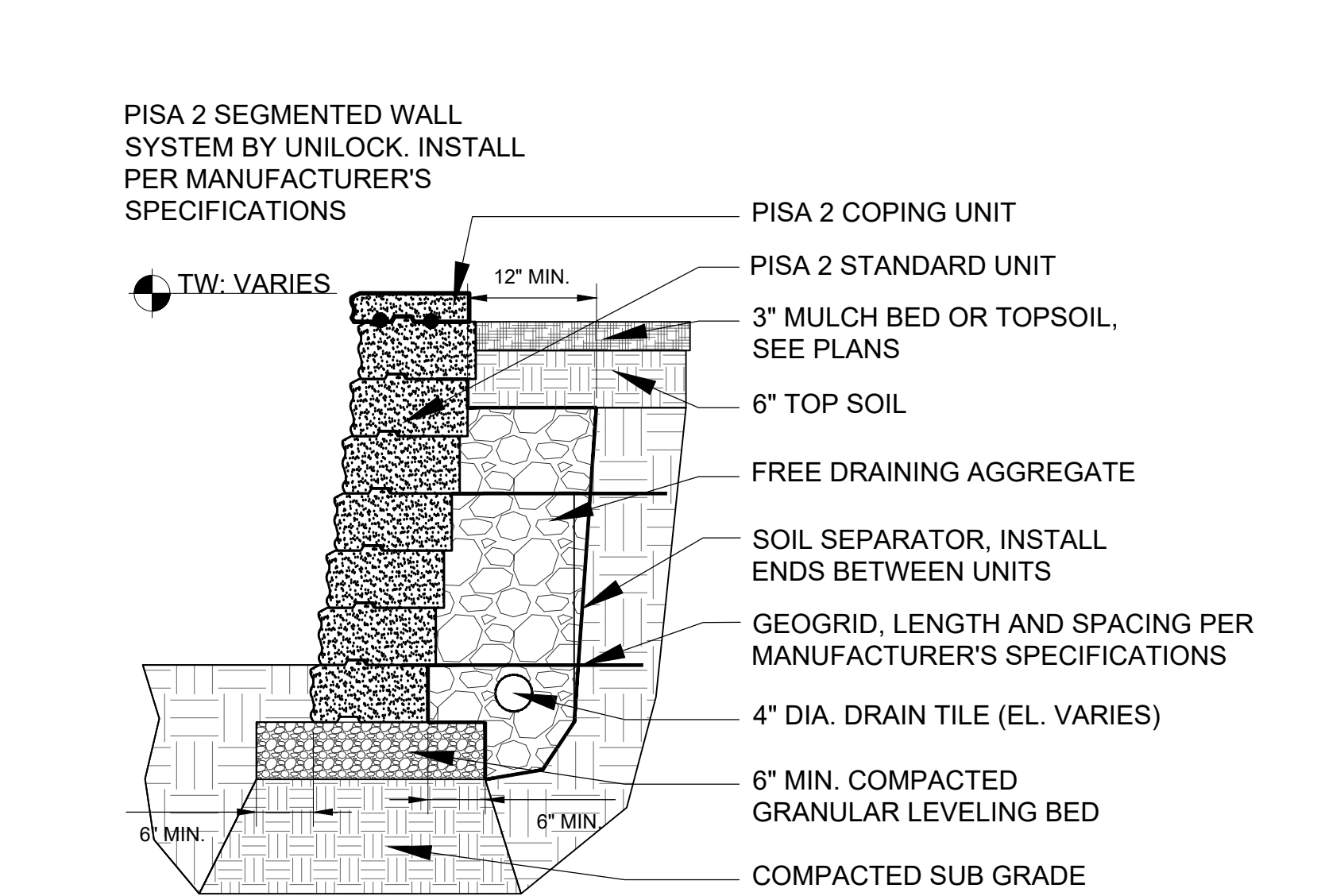
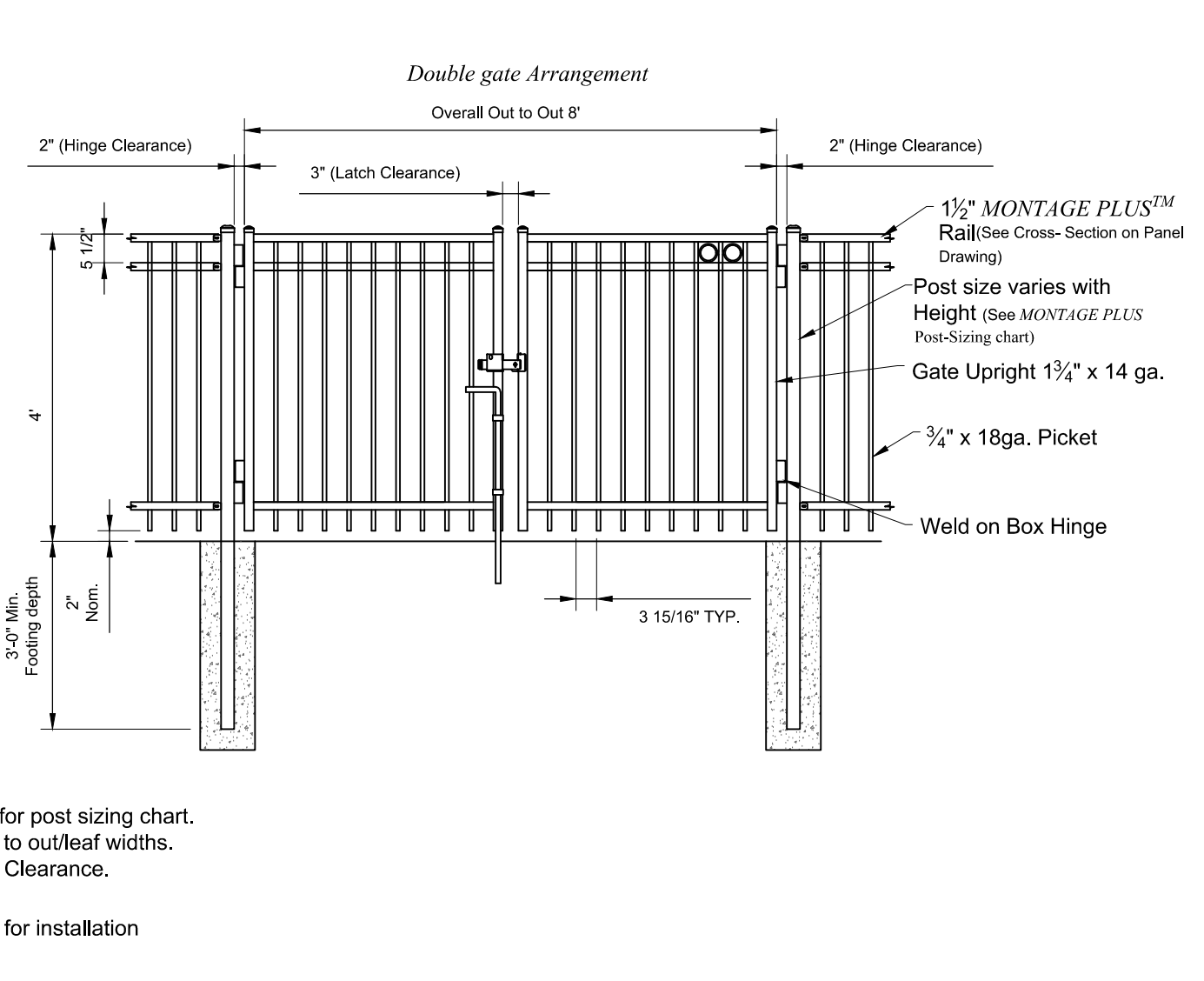
3 4' HT VINYL COATED CHAIN-LINK DOUBLE GATE
 SCALE: 3/8" = 1'-0"



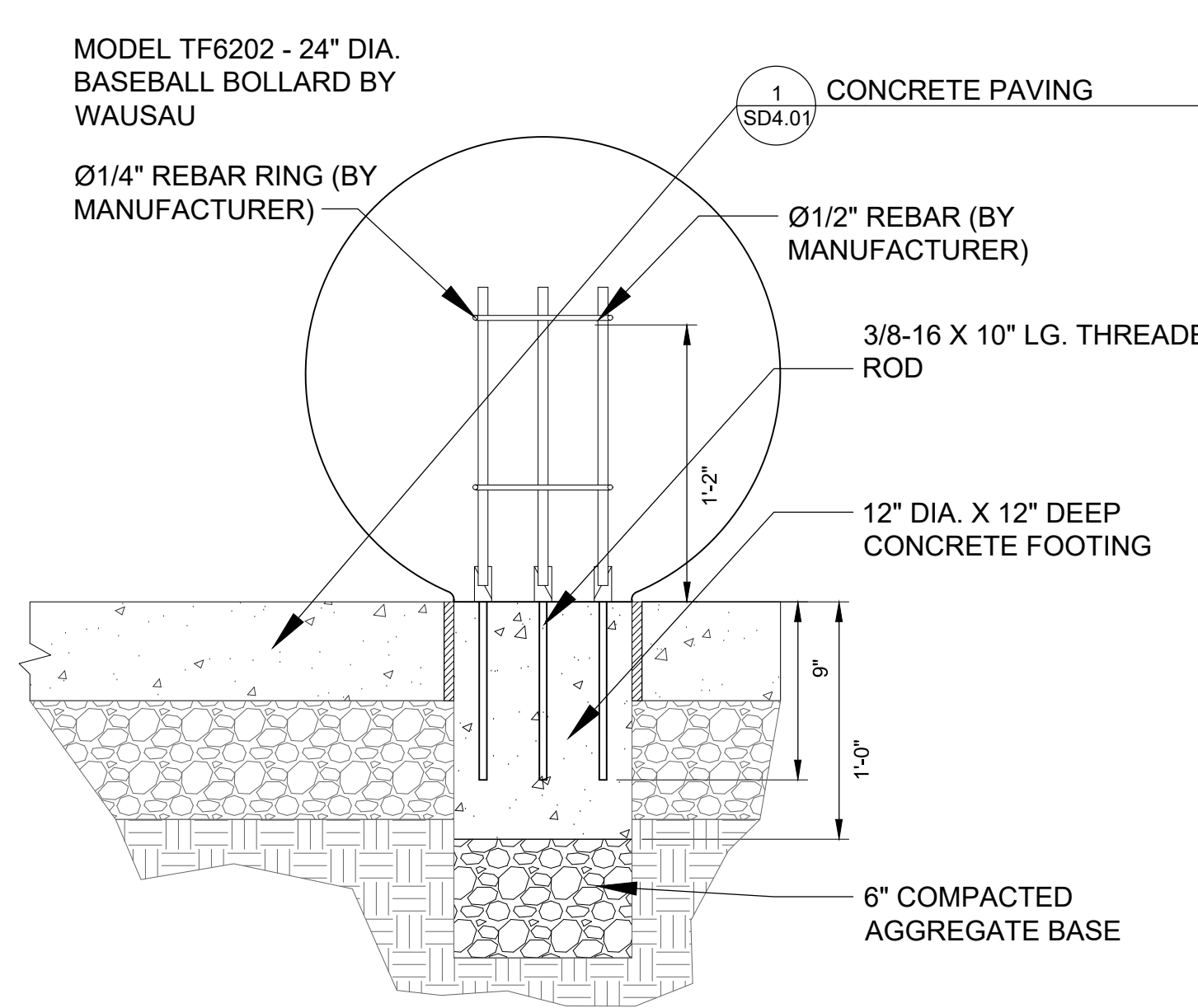
4 ORNAMENTAL FENCE (4')
 SCALE: 3/8" = 1'-0"



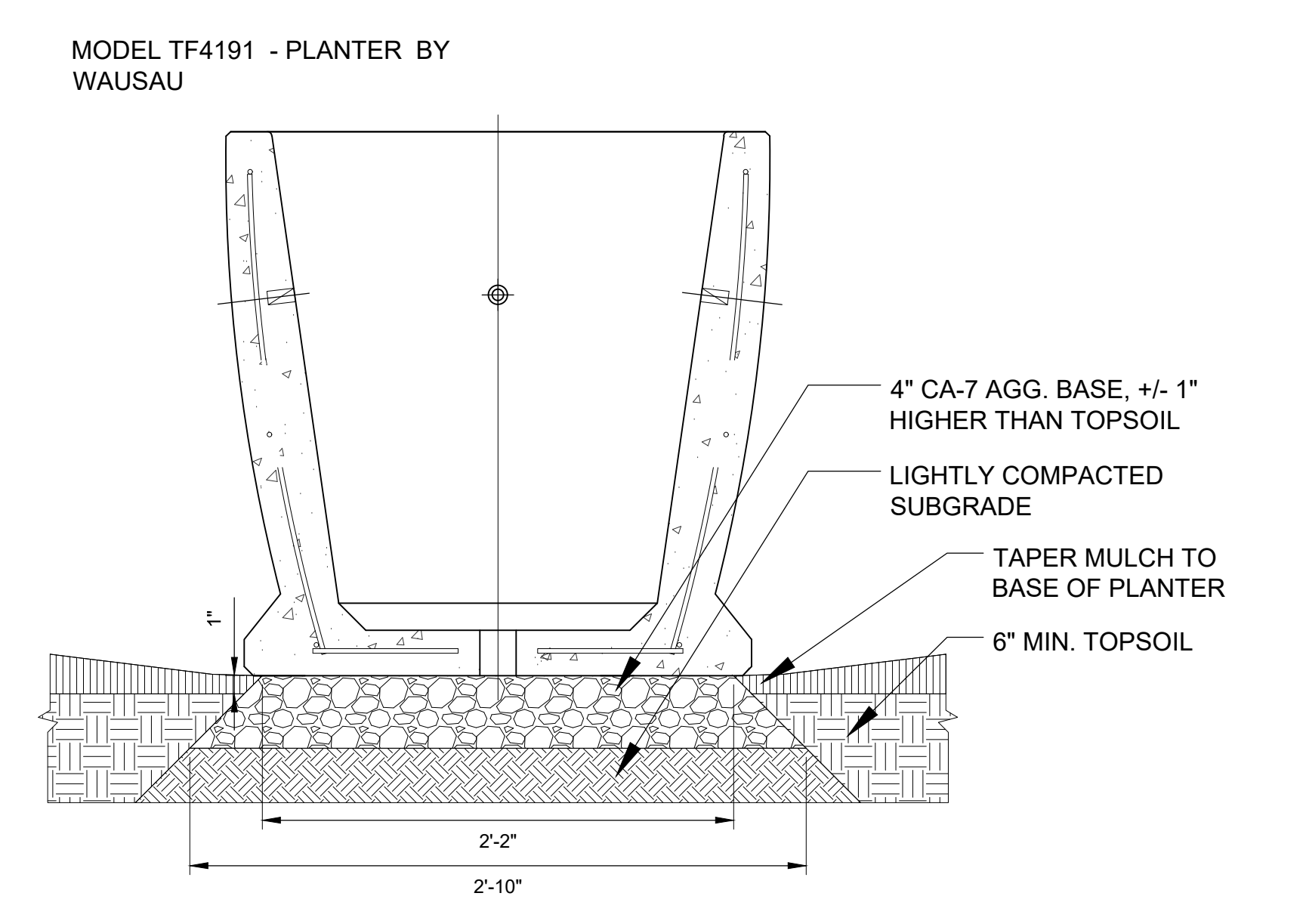
5 ORNAMENTAL GATE (4' HT.)
 SCALE: 3/8" = 1'-0"



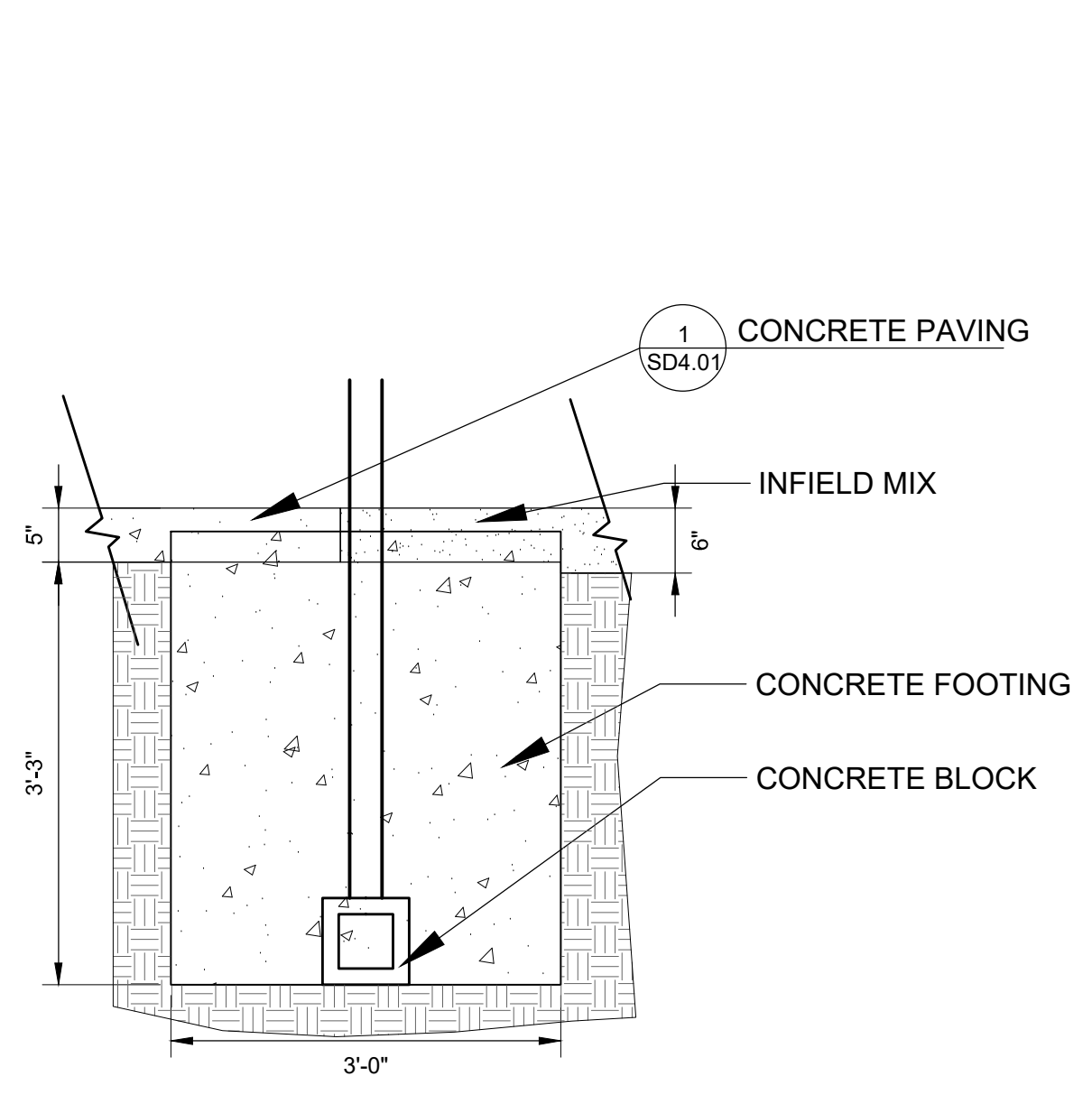
6 SEGMENTED RETAINING WALL - PISA 2
 SCALE: 3/4" = 1'-0"



7 BASEBALL BOLLARD
 SCALE: 1 1/2" = 1'-0"



8 PLANTER ON STONE BASE
 SCALE: 1 1/2" = 1'-0"



9 BACKSTOP FOOTING
 SCALE: 3/4" = 1'-0"



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

OAK BROOK PARK DISTRICT
 1450 Forest Gate Road
 Oak Brook, IL 60523

REV	DESCRIPTION	DATE
ISSUED FOR BID		12-6-17

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

DETAILS

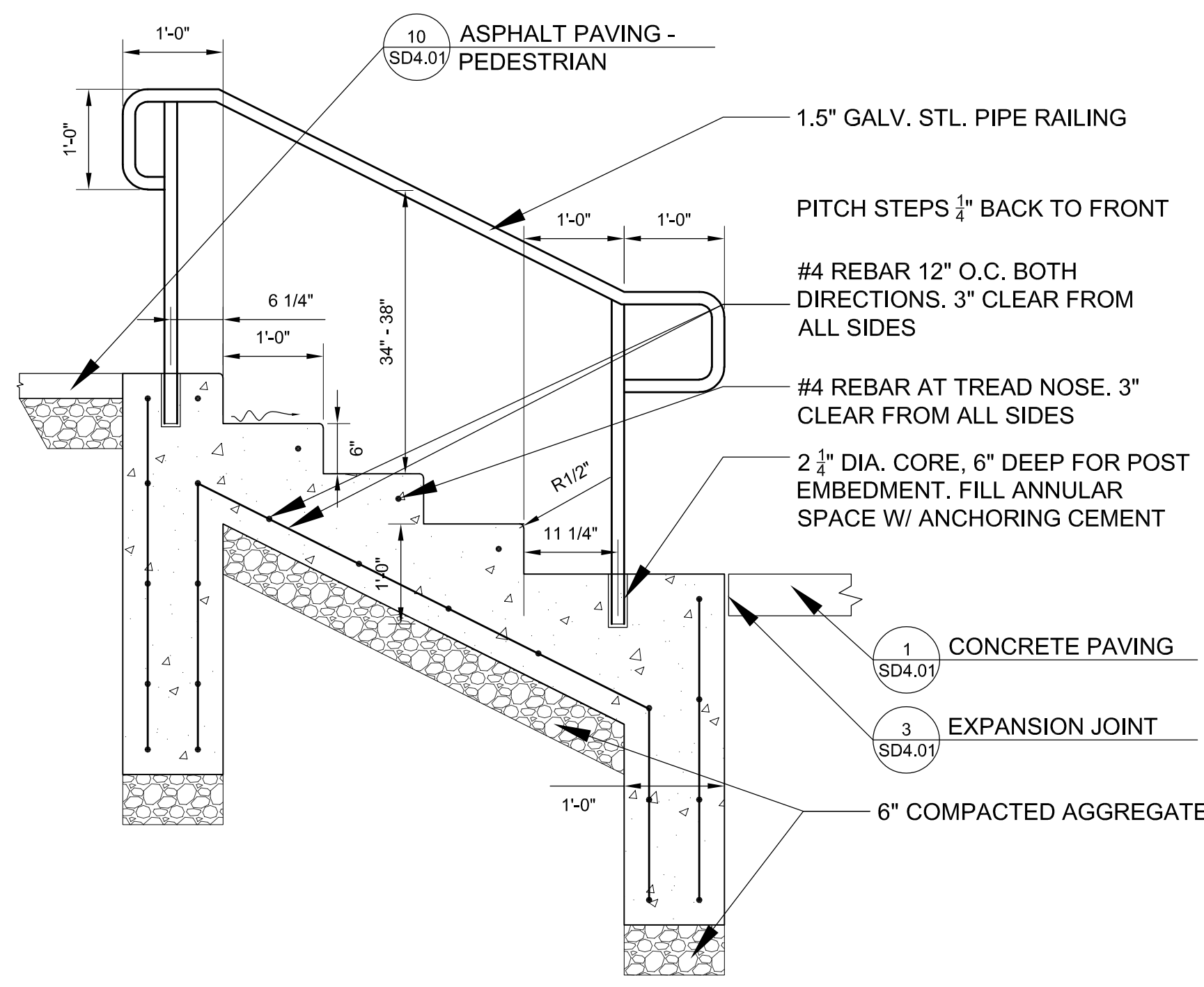
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 5646-03
 Drawn By:

Sheet:

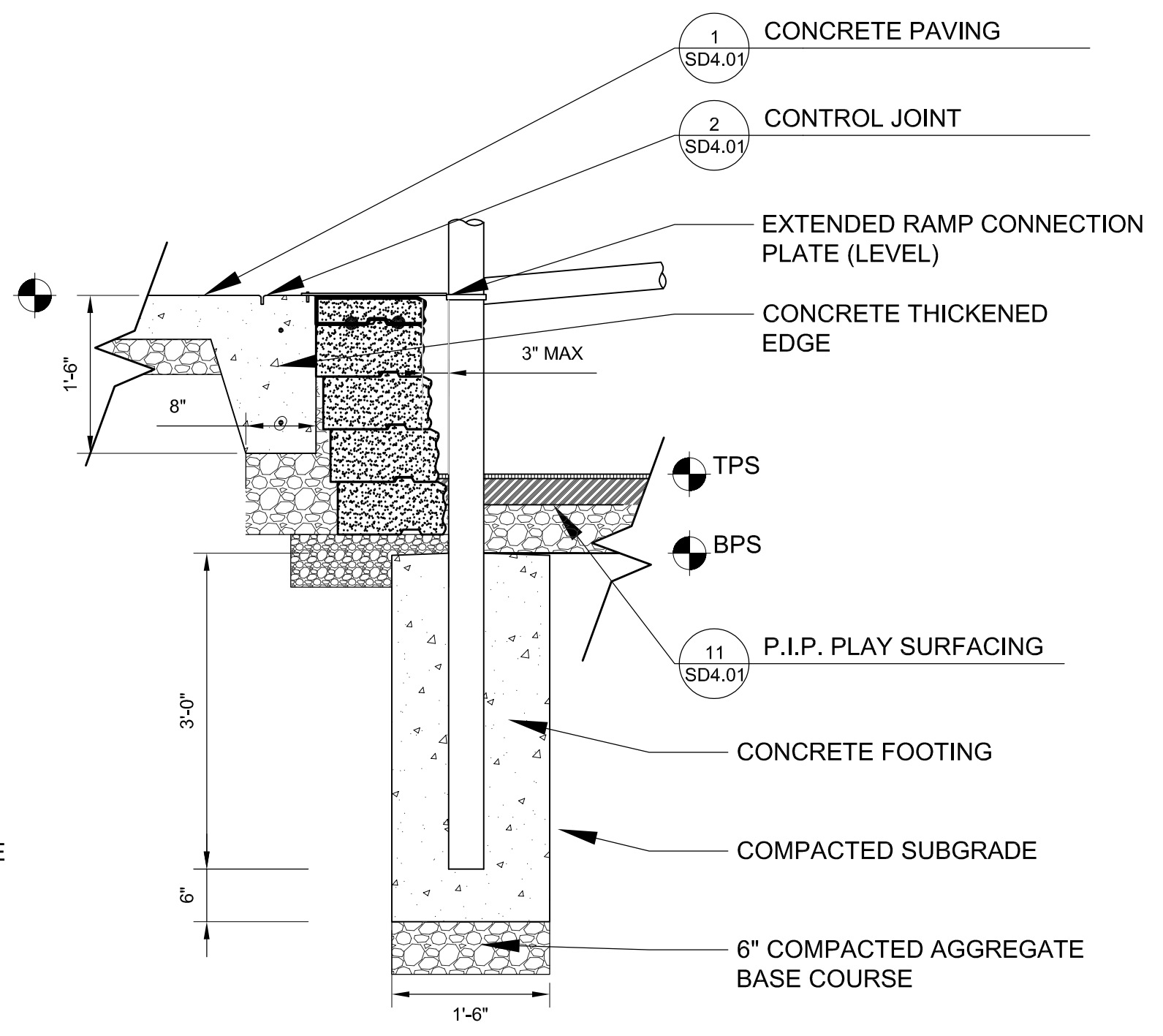
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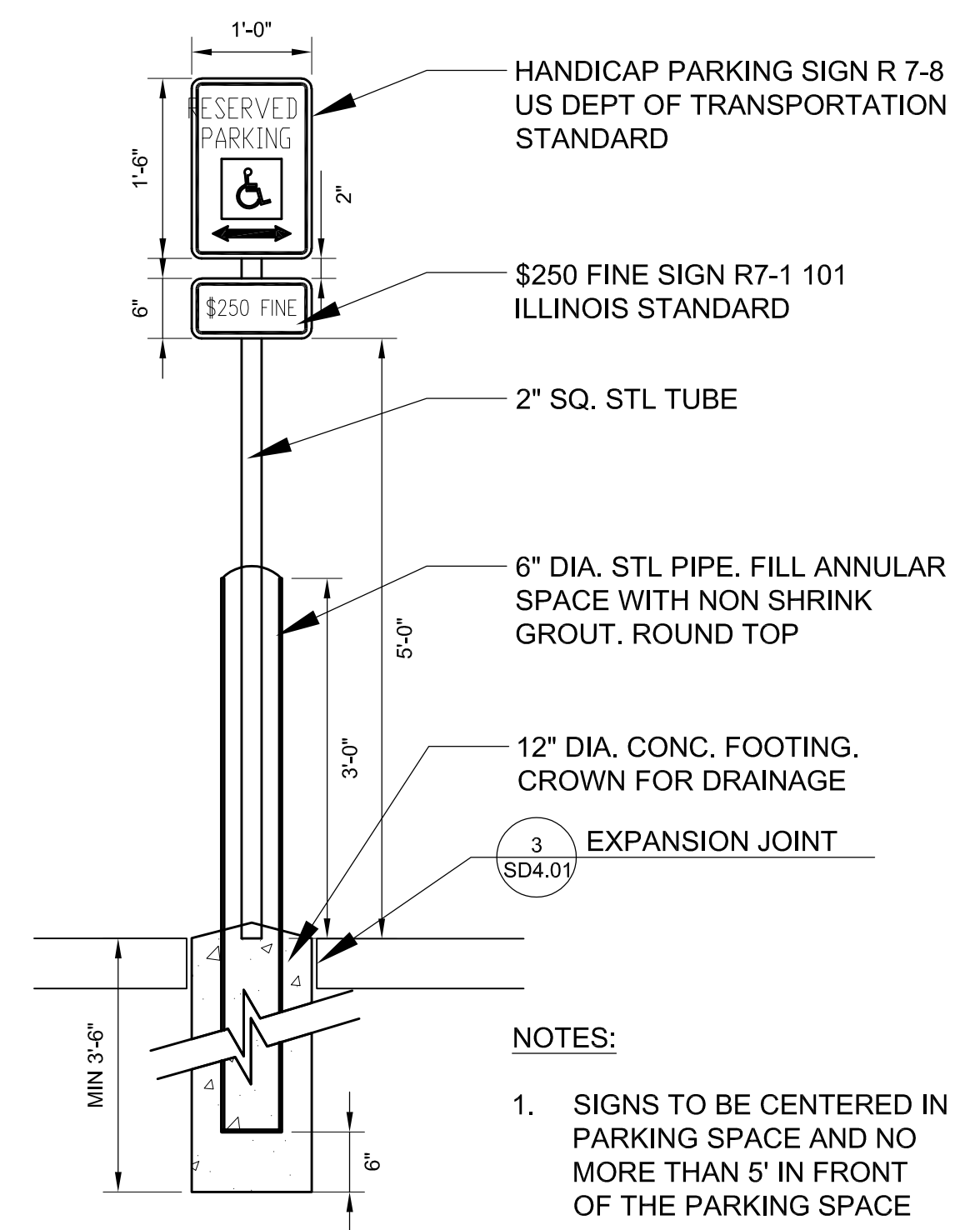
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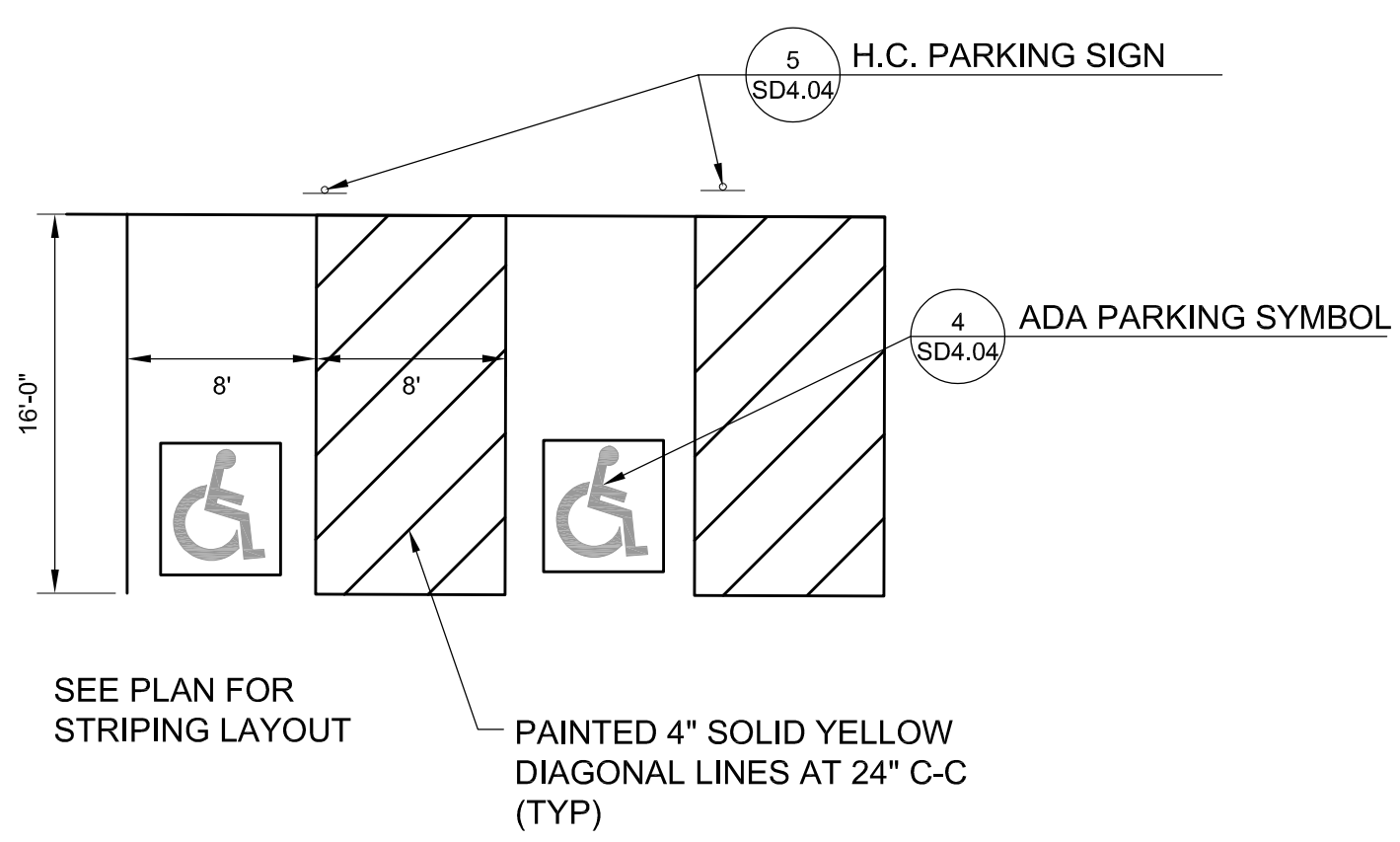
1 CONCRETE STEPS
 SCALE: 3/4" = 1'-0"



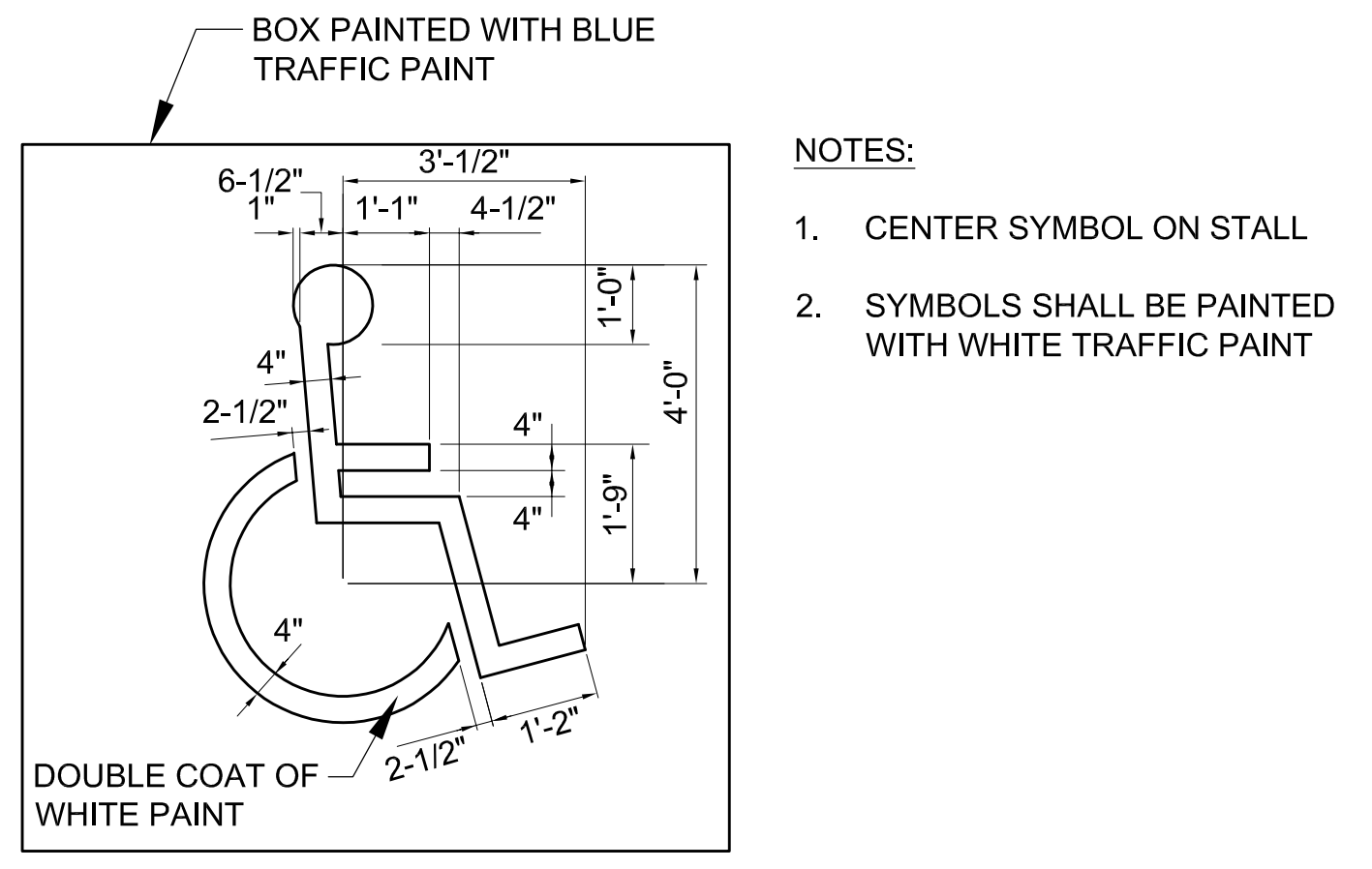
2 PLAY EQUIPMENT RAMP CONNECTION
 SCALE: 3/4" = 1'-0"



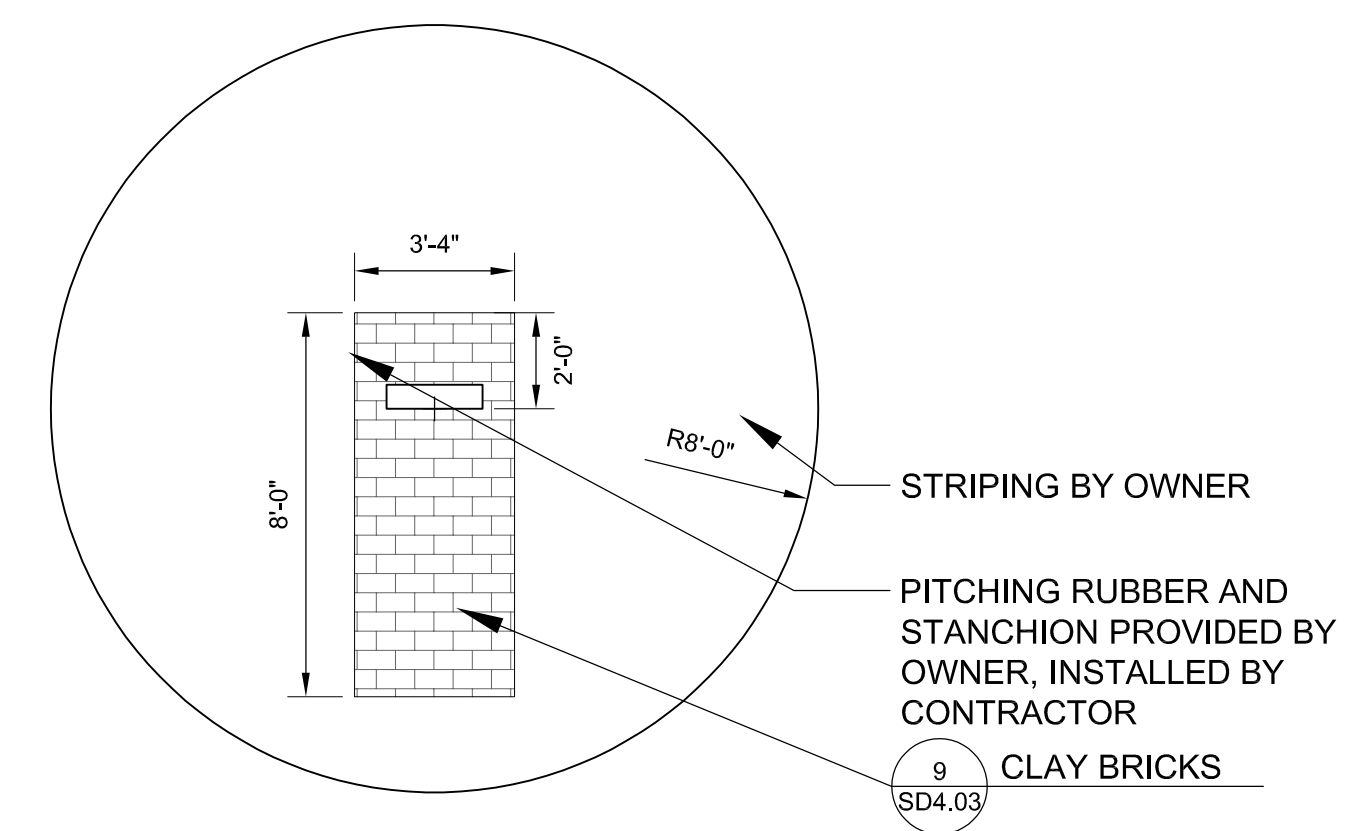
5 ADA PARKING SIGN
 SCALE: 3/4" = 1'-0"



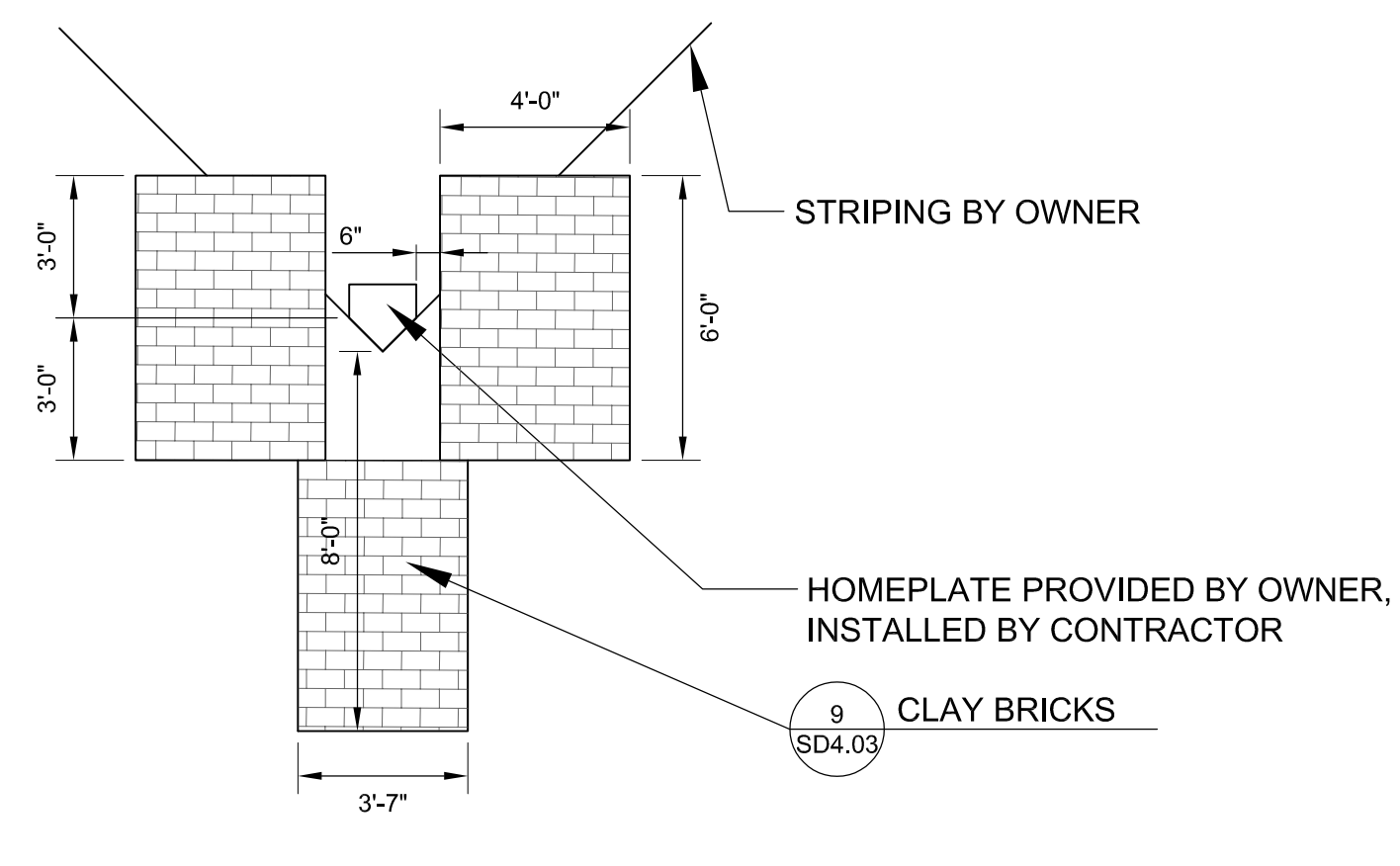
3 ADA PARKING STALLS
 SCALE: 3/8" = 1'-0"



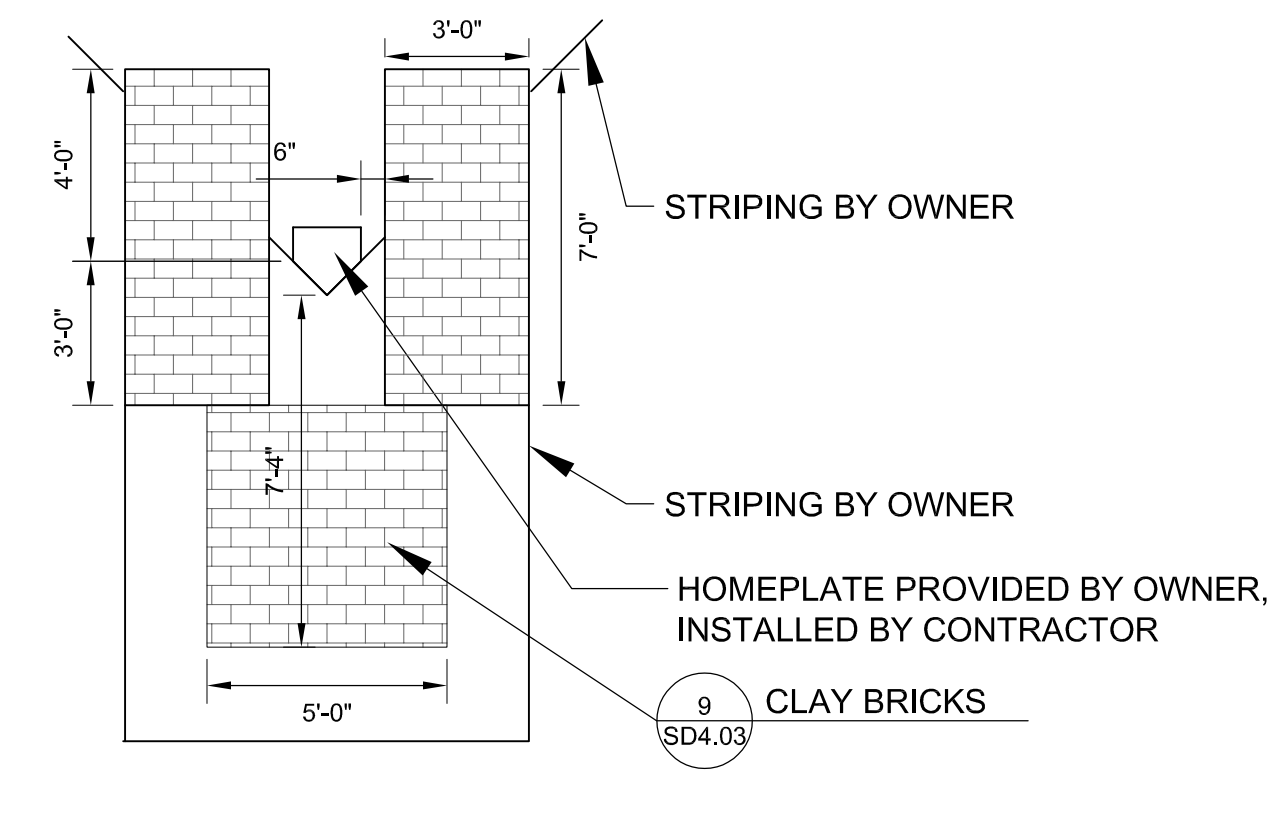
4 ADA PARKING SYMBOL
 SCALE: 1/2" = 1'-0"



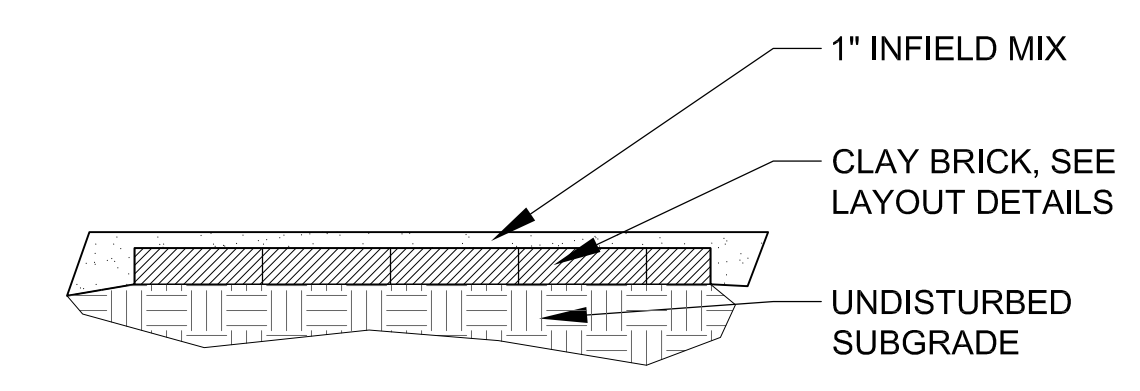
6 PITCHERS CIRCLE - SOFTBALL
 SCALE: 3/4" = 1'-0"



7 HOME PLATE AREA - BASEBALL
 SCALE: 3/4" = 1'-0"



8 HOME PLATE AREA - SOFTBALL
 SCALE: 3/4" = 1'-0"



9 CLAY BRICK SECTION
 SCALE: 1" = 1'-0"

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REV	DESCRIPTION	DATE
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

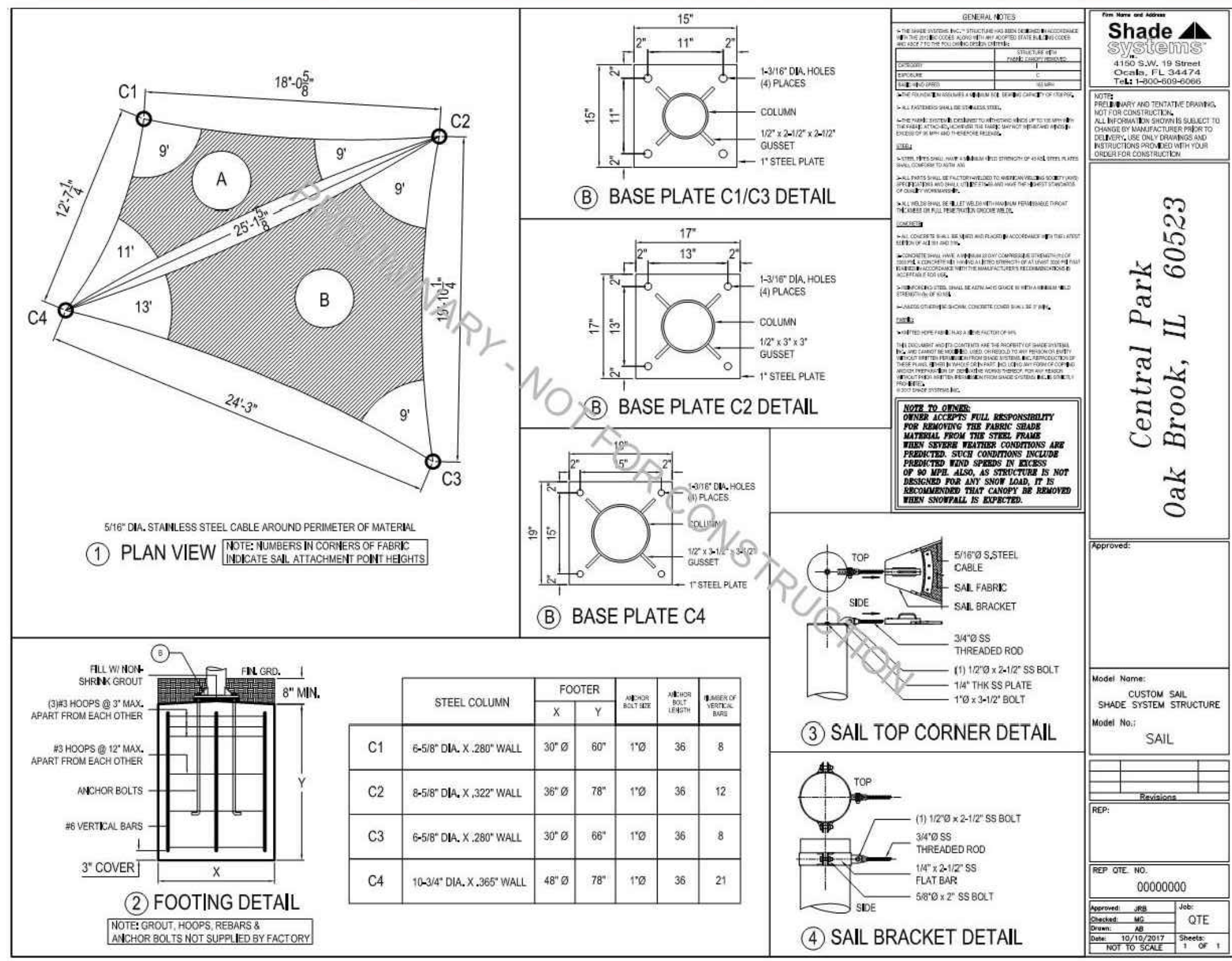
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 Sheet:

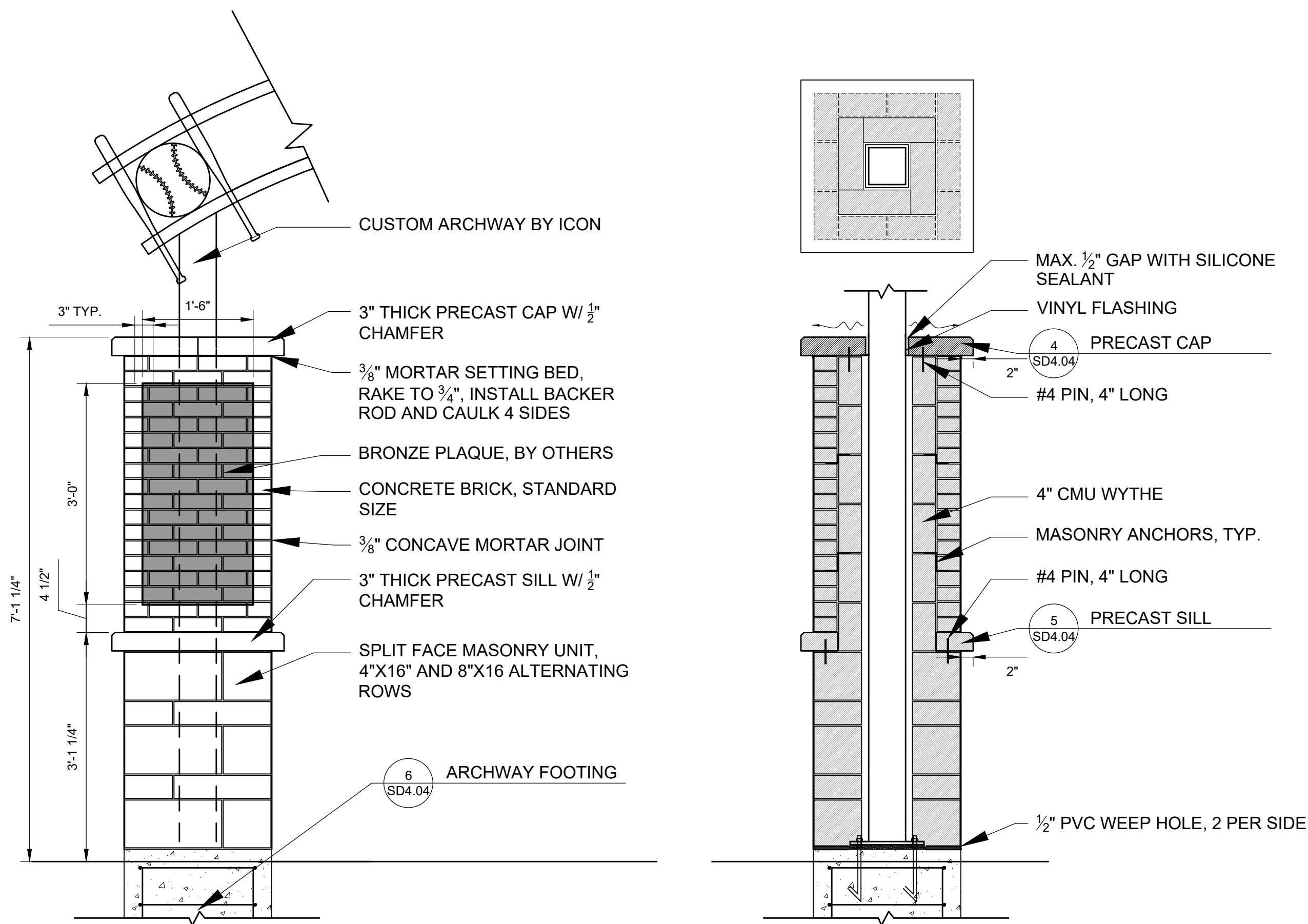
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IMPORTANT: The footings sizes provided are estimated only. Depending on local conditions, actual engineered concrete footings may be substantially larger than estimates provided herein. Shade Systems is not responsible for actual engineered footings sizes differing from the estimates given or for any additional concrete installation costs which may be incurred by you as a result thereof.

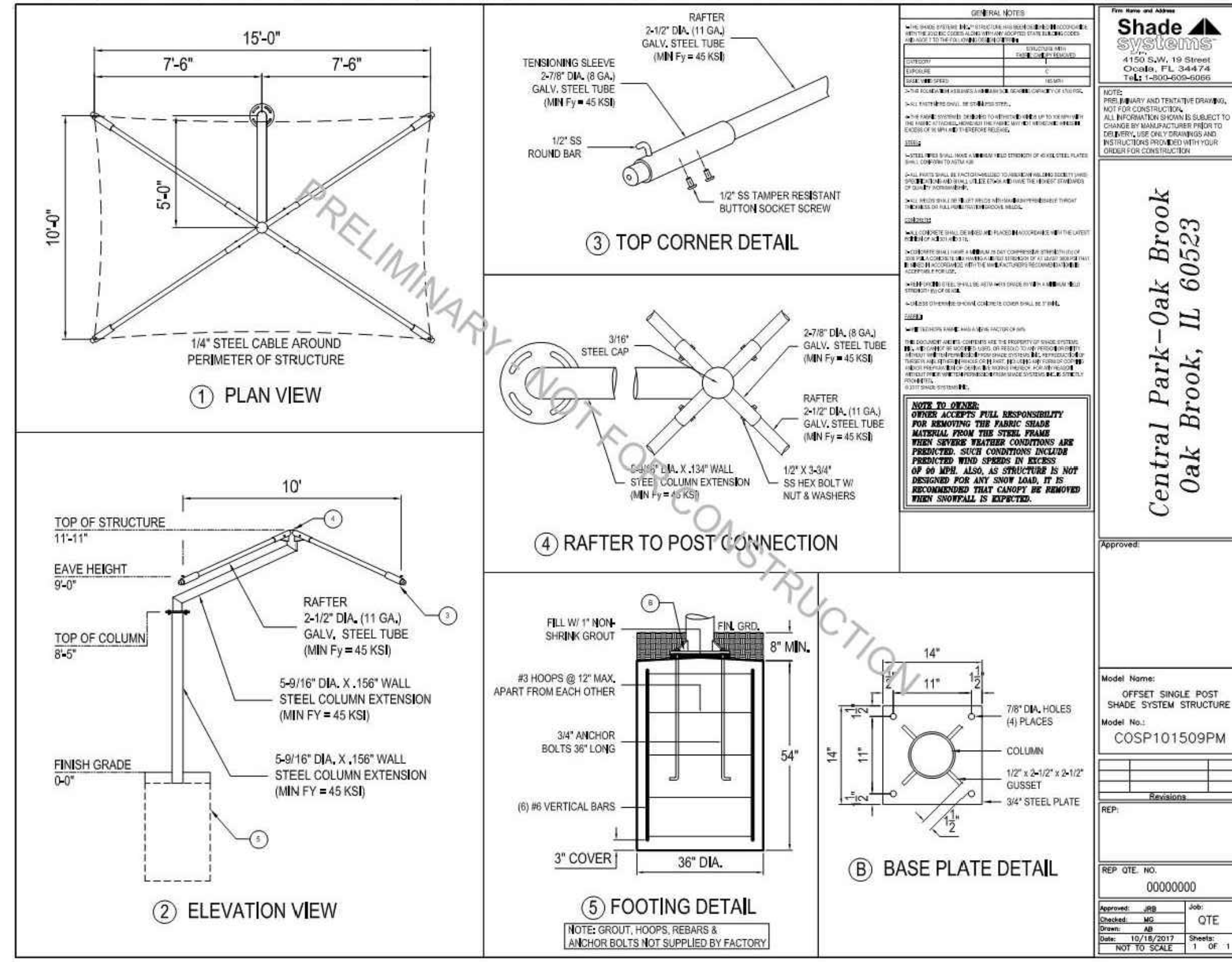


1 TENSILE SHADE SAIL
 NOT TO SCALE

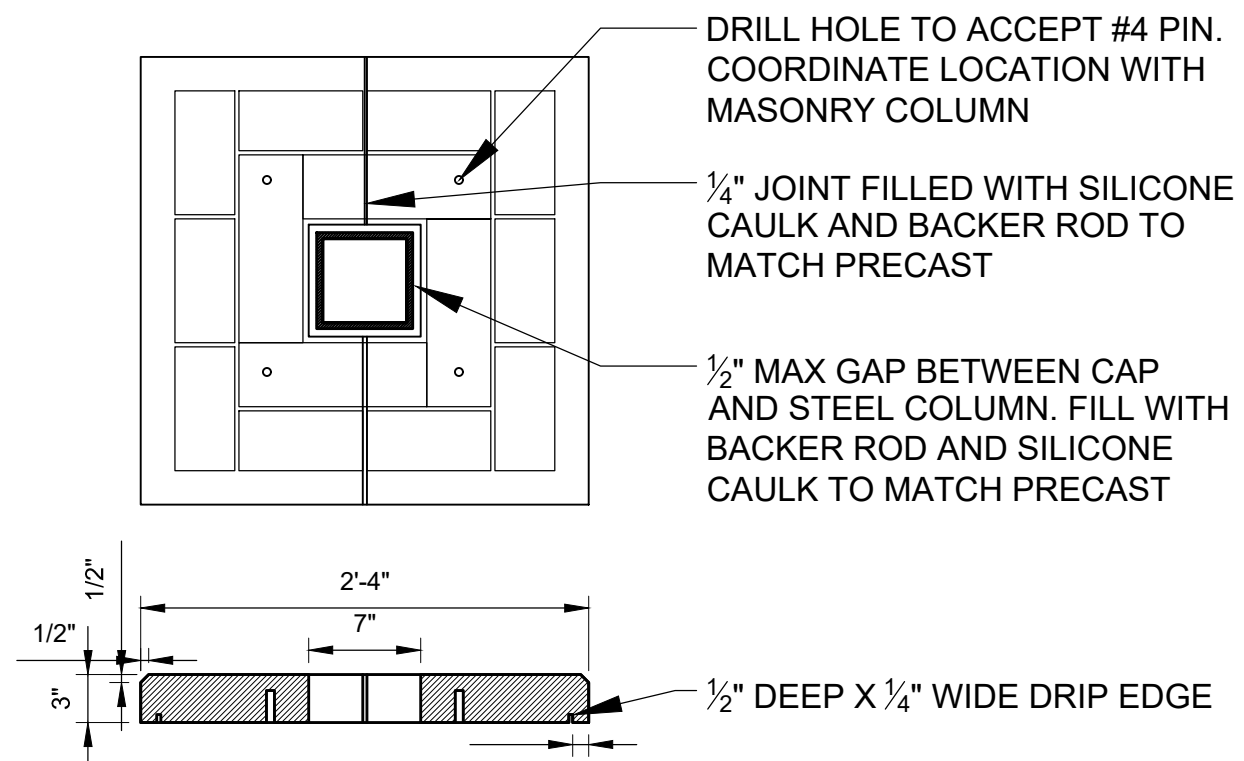


3 CUSTOM ARCHWAY
 SCALE: 3/4\"/>

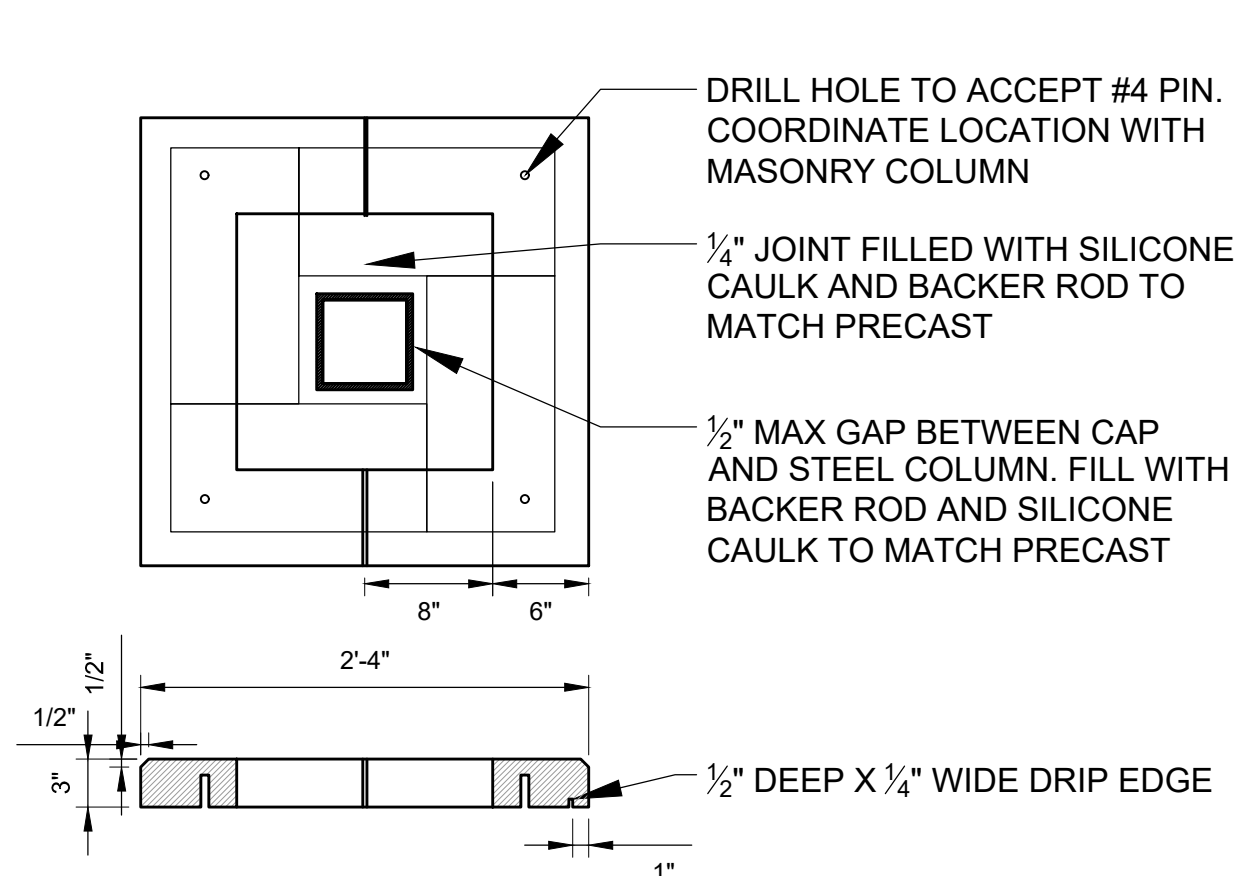
IMPORTANT: The footings sizes provided are estimated only. Depending on local conditions, actual engineered concrete footings may be substantially larger than estimates provided herein. Shade Systems is not responsible for actual engineered footings sizes differing from the estimates given or for any additional concrete installation costs which may be incurred by you as a result thereof.



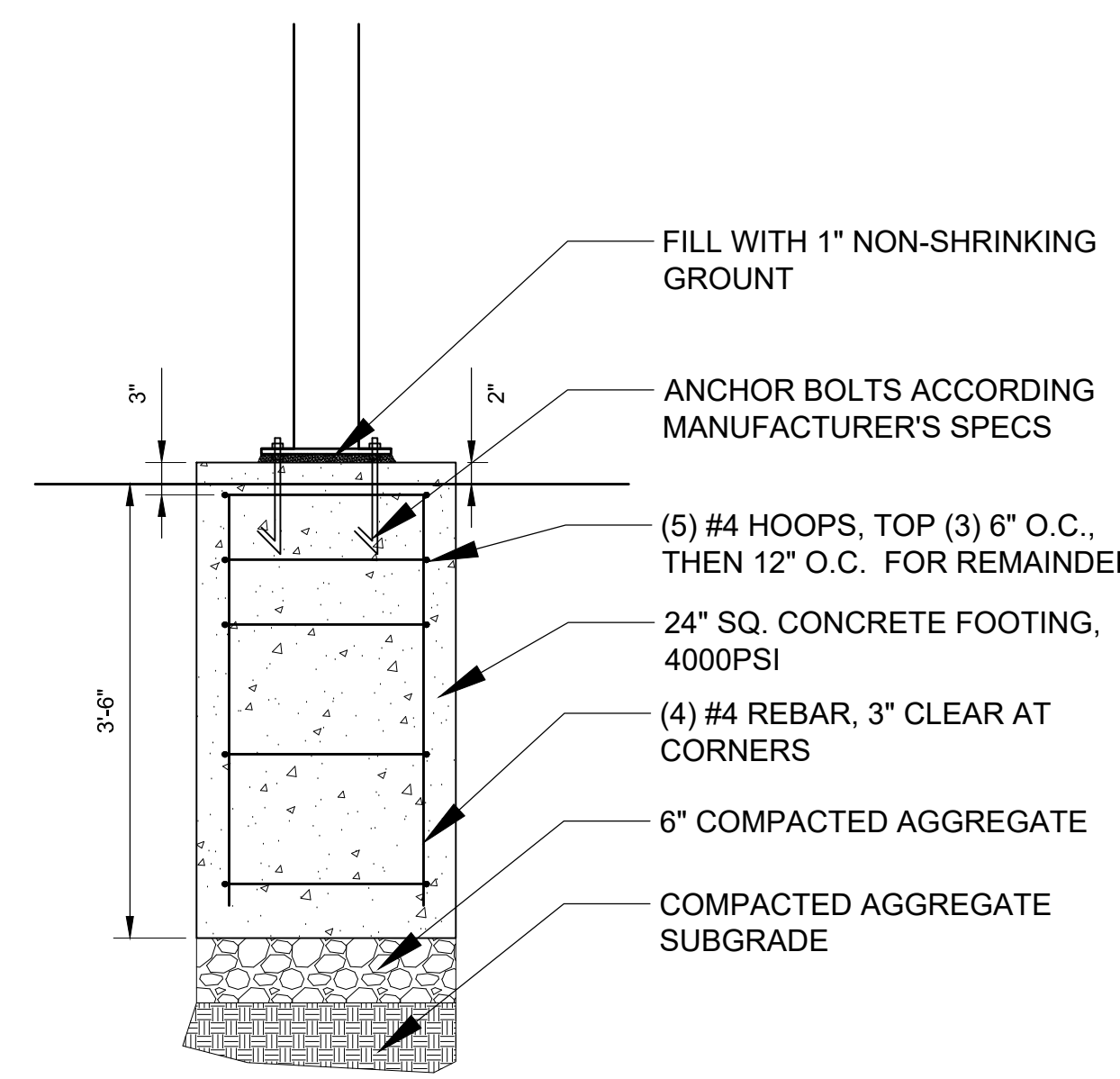
2 CANTILEVER TENSILE SHADE SHELTER
 NOT TO SCALE



4 PRECAST CAP
 SCALE: 1\"/>



5 PRECAST SILL
 SCALE: 1\"/>



6 ARCHWAY FOOTING
 SCALE: 3/4\"/>

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 Darien, IL 60561
 P 630.969.7000
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ISSUED FOR BID 12-6-17
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

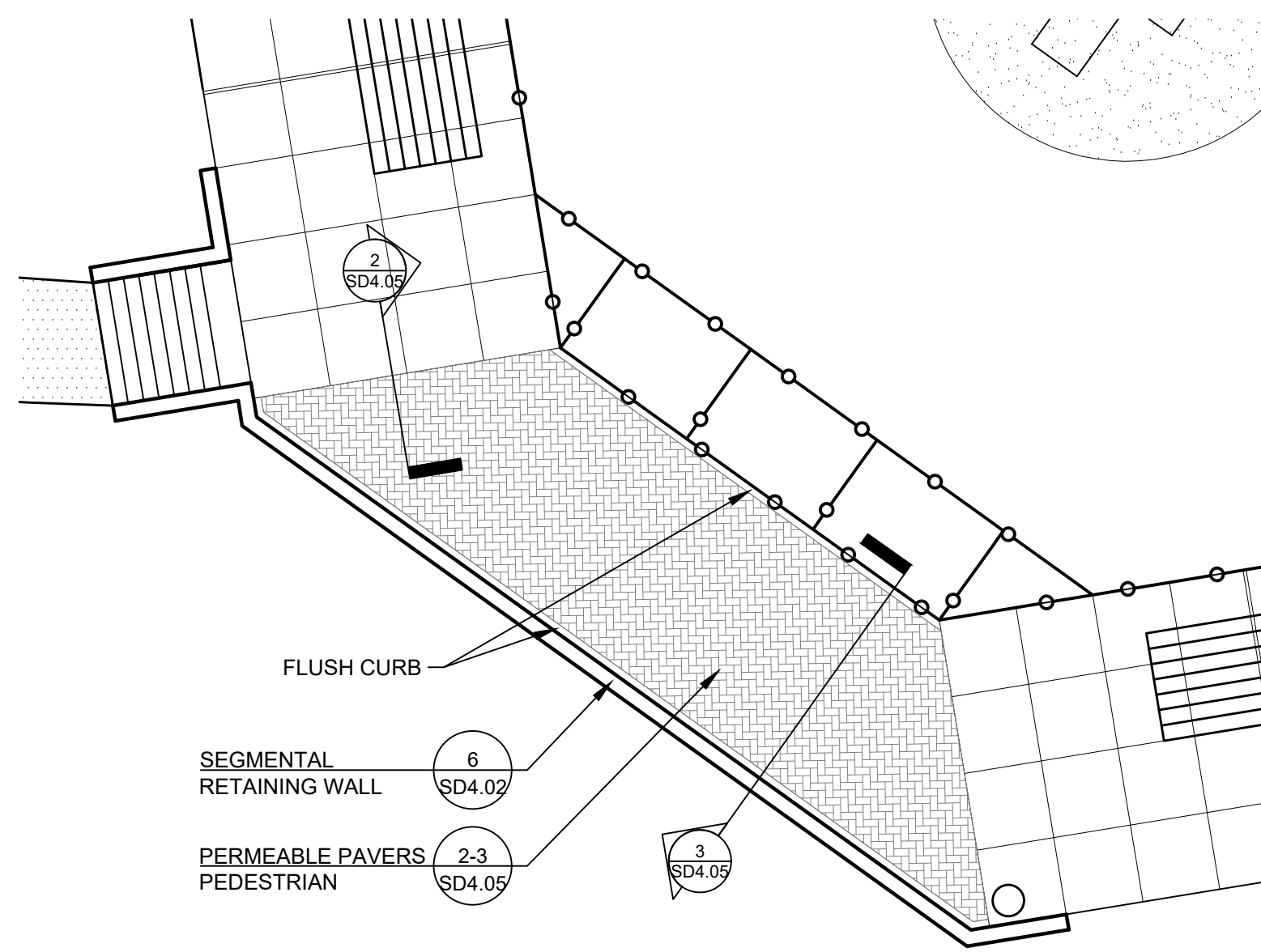
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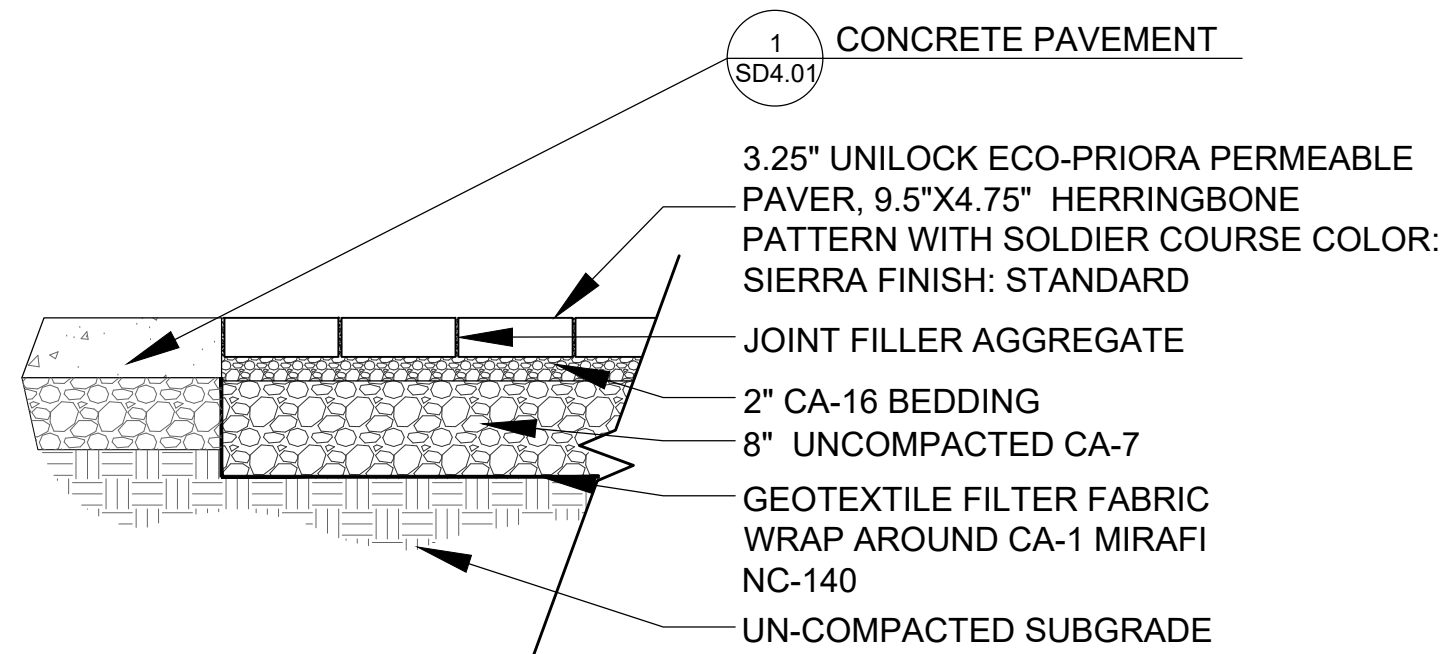
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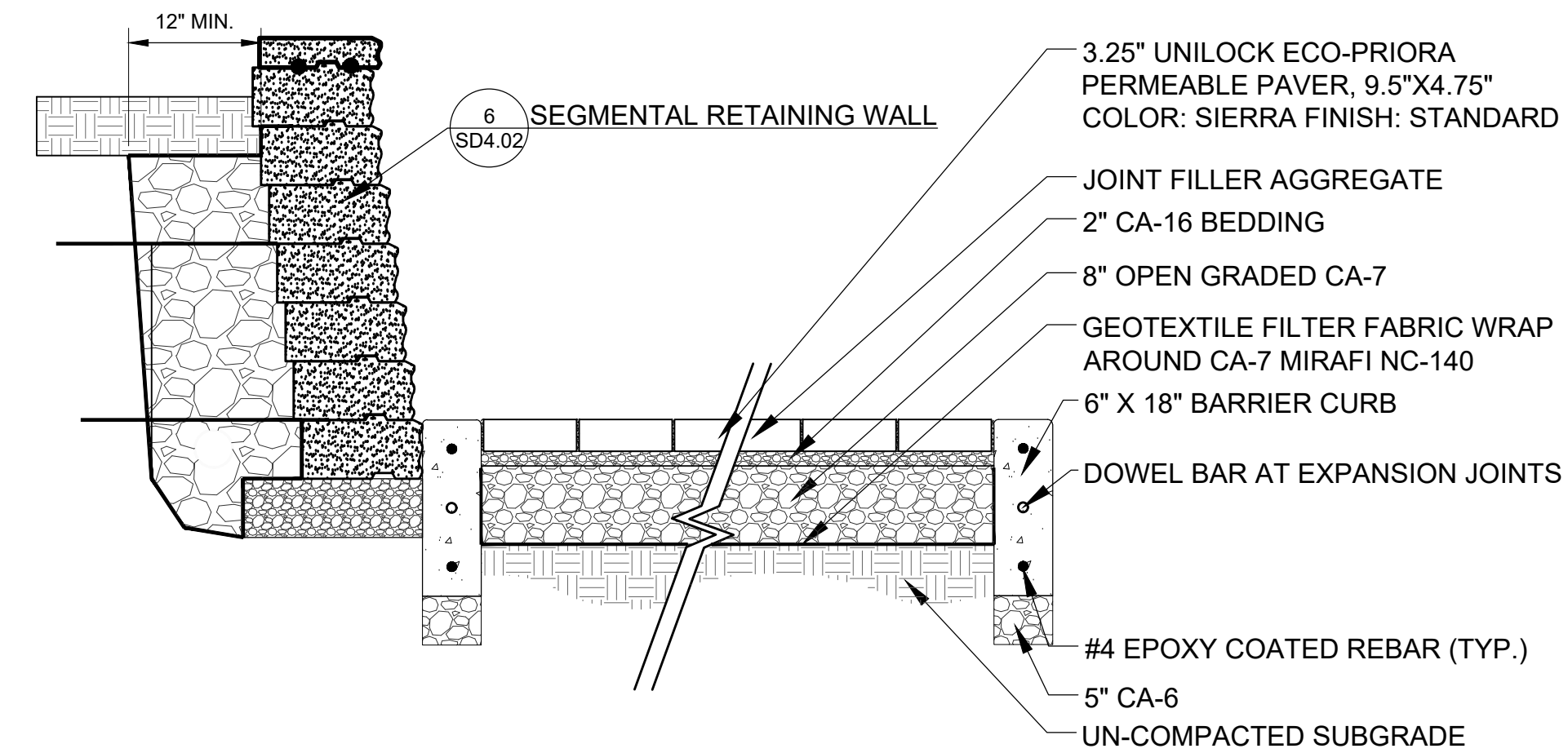
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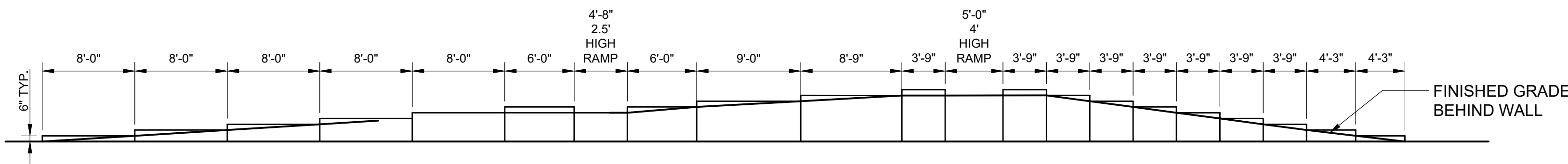
1 ALTERNATE: PERMEABLE PEDESTRIAN PAVERS
 SCALE: 1"=10'



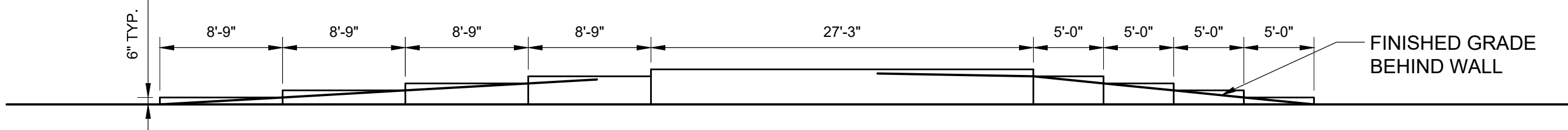
2 PERMEABLE PAVERS - PEDESTRIAN
 SCALE: 3/4" = 1'-0"



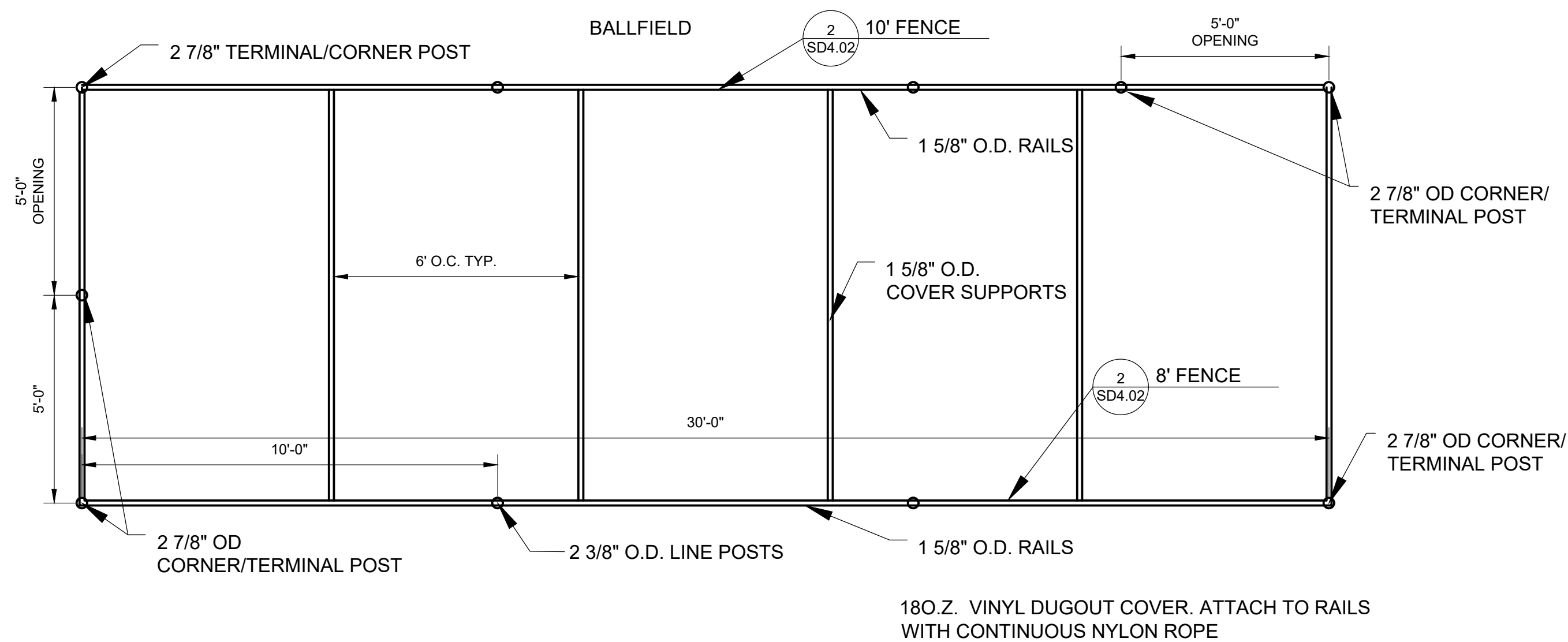
3 PERMEABLE PAVERS - PEDESTRIAN
 SCALE: 3/4" = 1'-0"



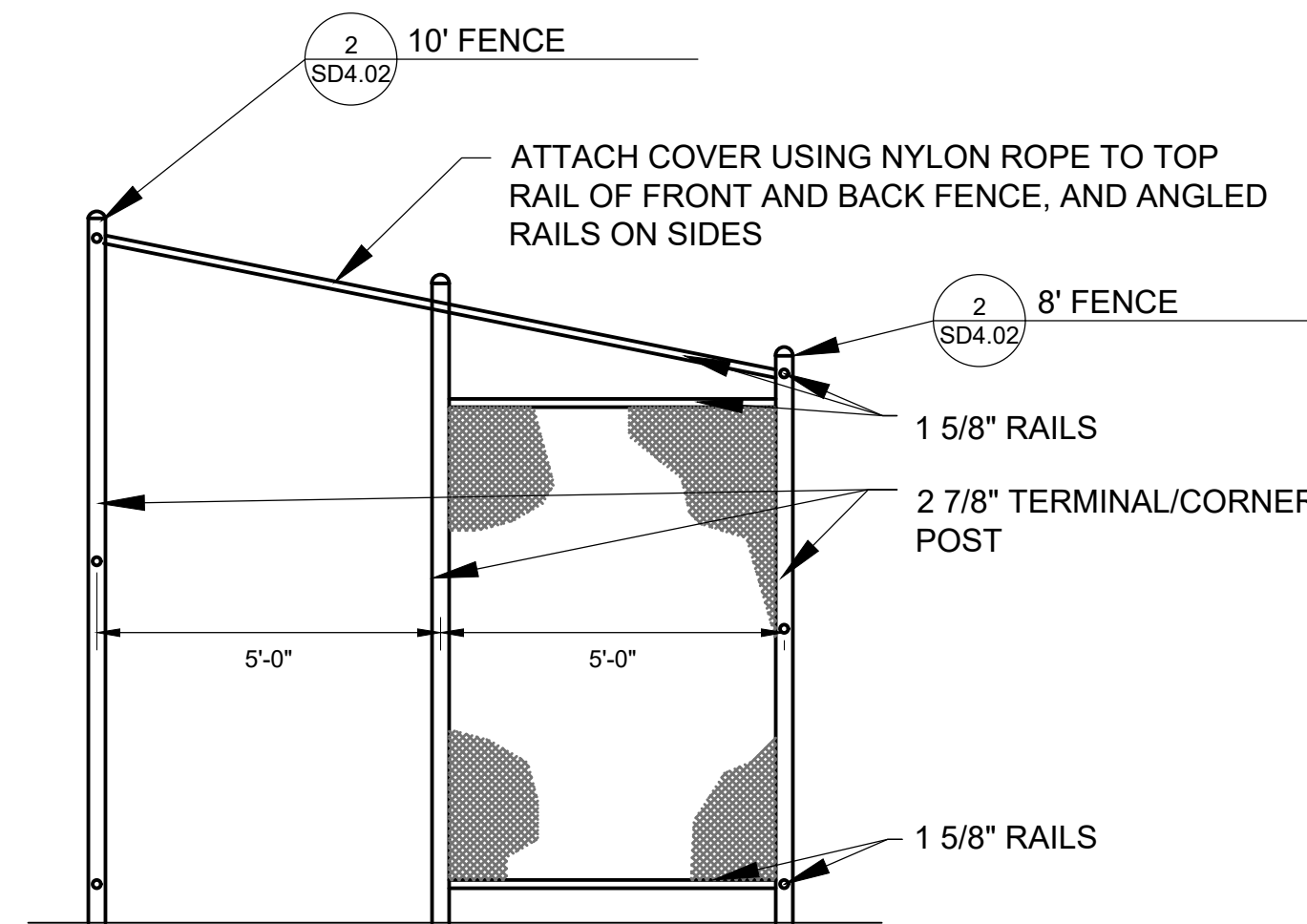
4 SEGMENTAL RETAINING WALL - PLAYGROUND ELEVATION A
 SCALE: 1/8" = 1'-0"



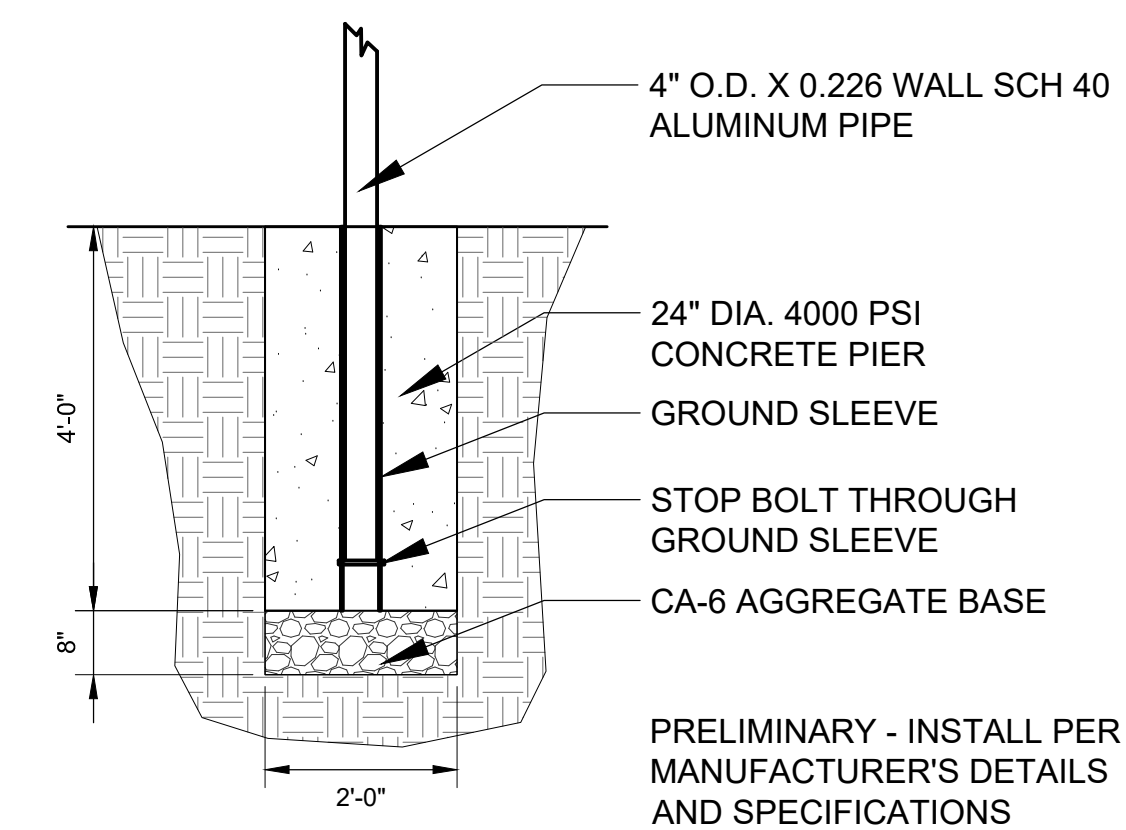
5 SEGMENTAL RETAINING WALL - PLAYGROUND ELEVATION B
 SCALE: 1/8" = 1'-0"



6 DUGOUT FRAME PLAN
 SCALE: 3/8" = 1'-0"



7 DUGOUT ELEVATION
 SCALE: 3/8" = 1'-0"



8 BARRIER NET FOOTING
 SCALE: 1/2" = 1'-0"

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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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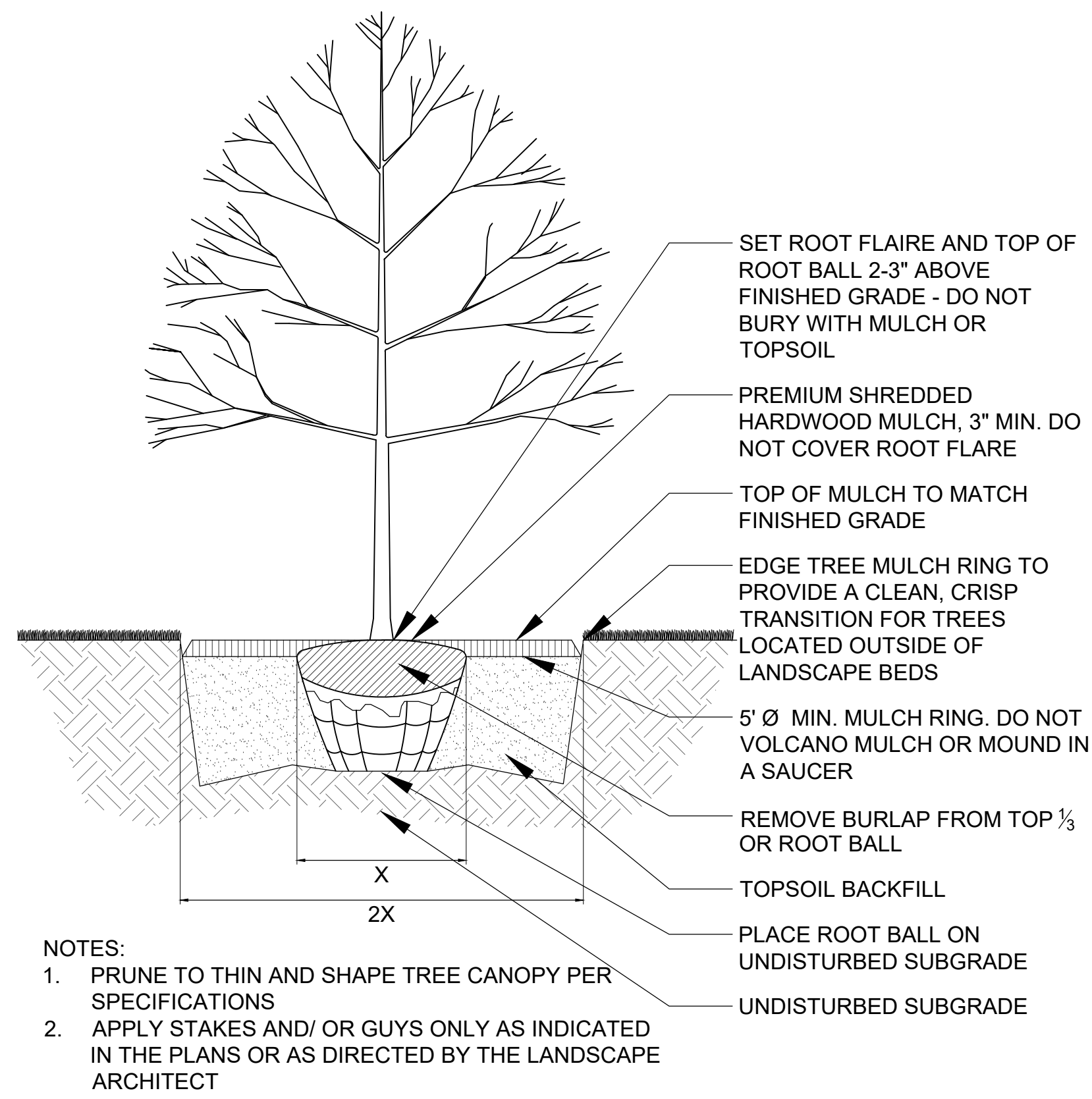
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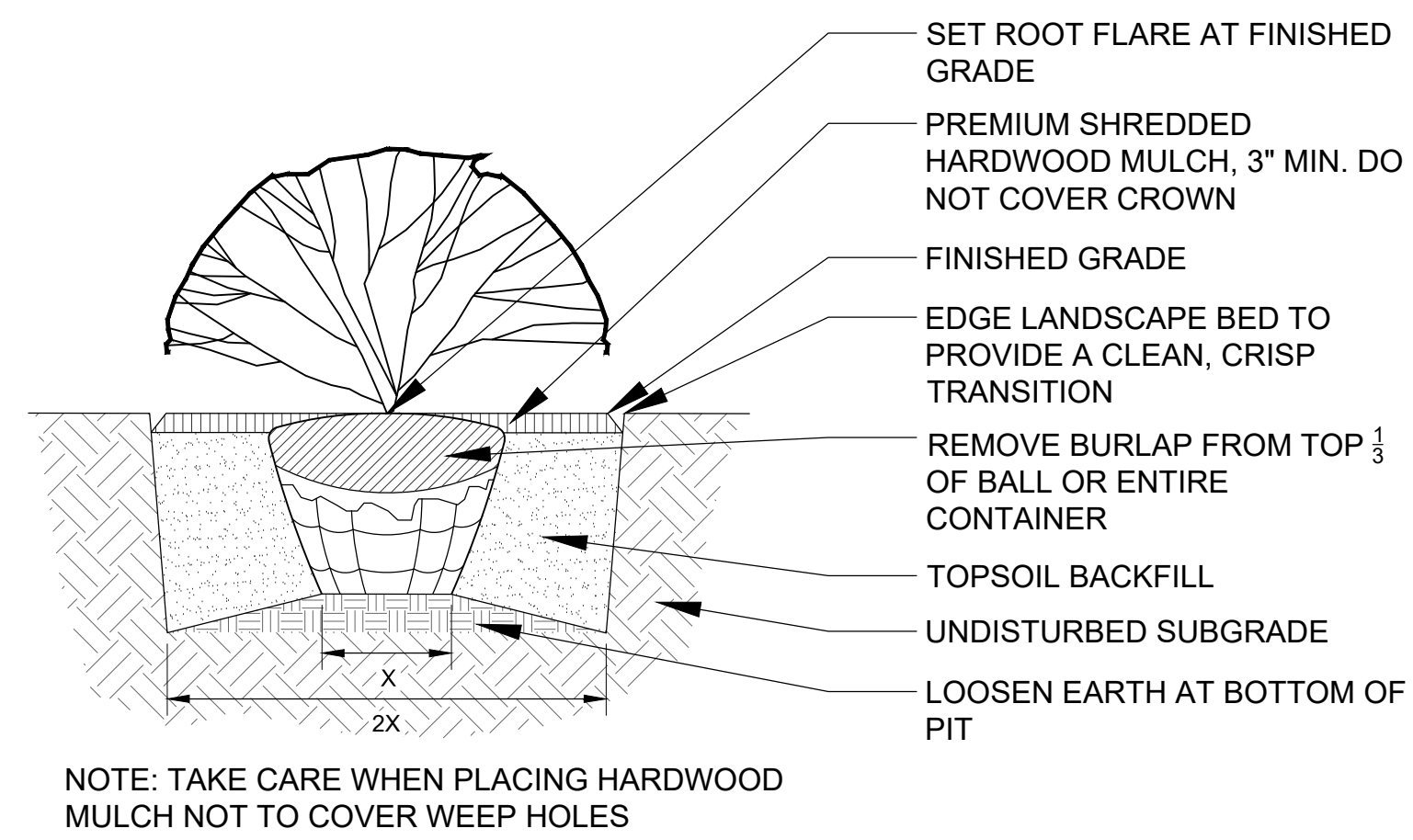
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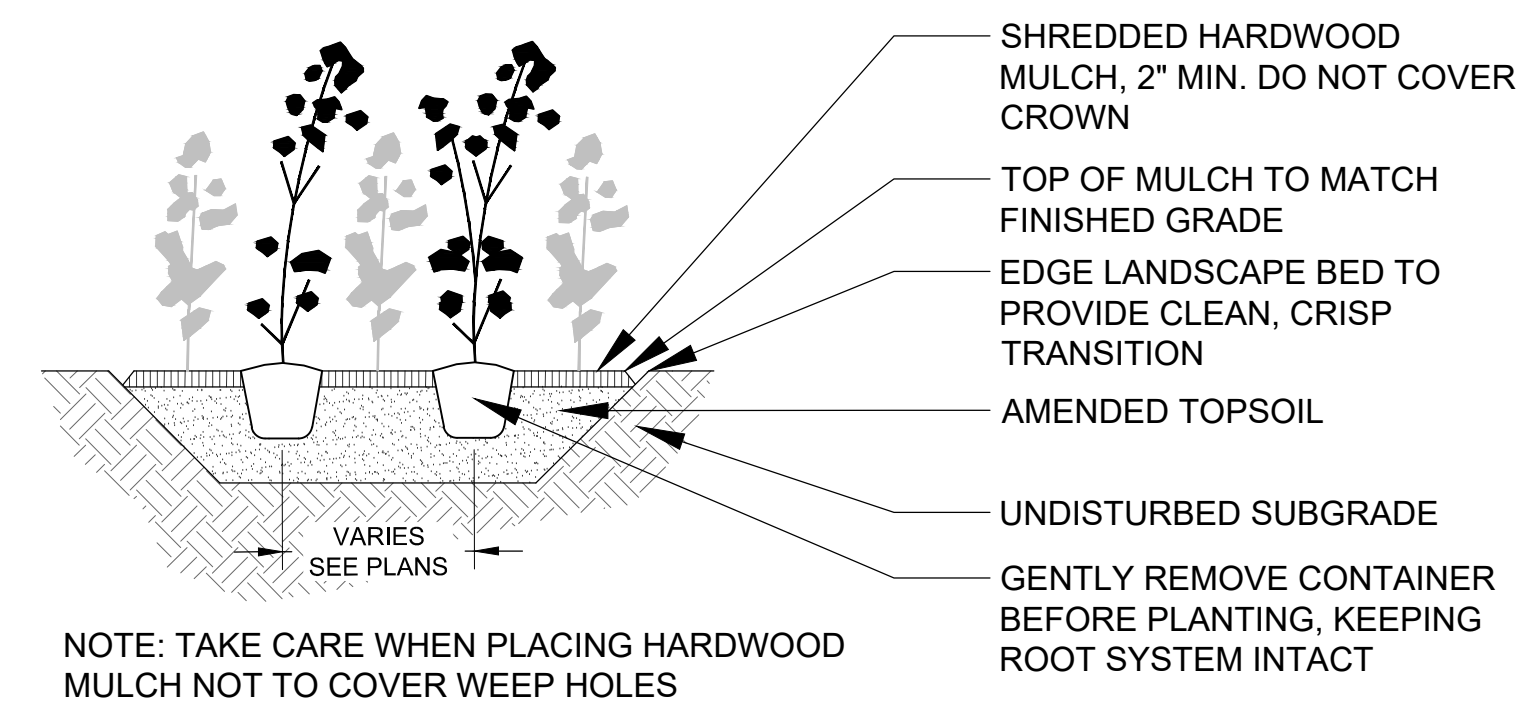
- NOTES:
1. PRUNE TO THIN AND SHAPE TREE CANOPY PER SPECIFICATIONS
 2. APPLY STAKES AND/ OR GUYS ONLY AS INDICATED IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT

1 TREE PLANTING
 SCALE: 1/2" = 1'-0"



NOTE: TAKE CARE WHEN PLACING HARDWOOD MULCH NOT TO COVER WEEP HOLES

2 SHRUB PLANTING DETAIL
 SCALE: 1/2" = 1'-0"



NOTE: TAKE CARE WHEN PLACING HARDWOOD MULCH NOT TO COVER WEEP HOLES

3 PERENNIAL PLANTING DETAIL
 SCALE: 1/2" = 1'-0"



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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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LANDSCAPE DETAILS

Project Number:
 5646-03
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Sheet:

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SD4.06

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GENERAL NOTES

- DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESENTATION.
- CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
- CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
- CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
- THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNERS STIPULATION AS DIRECTED.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTORS WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.
- CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR CONDUIT, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
- UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETES. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARP'S OR VISQUIN. ALL CONDUIT WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED ON THE SITE UNLESS IT IS SITTING ON WOOD PLANKS AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.

- THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
- CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY HIM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.
- PROVIDE NEW, TYPED, UPDATED PANELBOARD DIRECTORIES FOR ALL PANELS AFFECTED BY THIS PROJECT, NEW AND EXISTING.

ELECTRICAL NOTES:

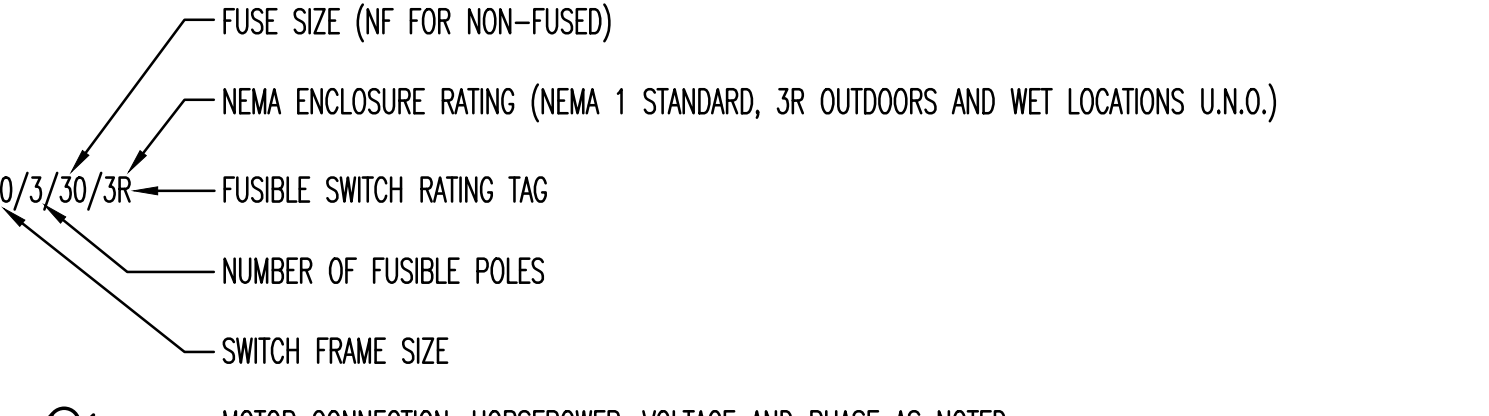
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE AND SHALL CONFORM TO ALL LOCAL CODES.
- PROVIDE ALL PERMITS AND INSPECTION FEES.
- ALL MATERIAL AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY THE ENGINEER.
- THIS CONTRACTOR SHALL PROVIDE ALL HIS OWN RIGGING, SCAFFOLDING, RUBBISH REMOVAL AND LEAVE SPACE BROOM CLEAN.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" E.M.T.
- MINIMUM SIZE WIRE SHALL BE #12 THHN, WITH #14 USED FOR CONTROL WIRING.
- WIRE #14 THROUGH #10 SHALL BE COPPER THHN; #8 THROUGH 500 MCM SHALL BE STRANDED COPPER THHN. ALUMINUM WIRE NOT ACCEPTABLE. ALL WIRE SHALL BE COLOR CODED.
- THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING INCLUDING SLEEVES AND INSERTS.
- ALL NEW CIRCUIT BREAKERS SHALL BE "QOB" BOLT-ON BREAKERS (10,000 A.I.C.), OR EQUAL BY G.E. OR ITE. (PROVIDE NEW CIRCUIT BREAKERS COMPATIBLE WITH NEW PANELBOARD). PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.
- BEFORE SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS ON THE PROJECT.
- THIS CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT AS MAY BE REQUIRED BY THIS WORK.

ELECTRICAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	S.C.	SEPARATE CIRCUIT
C	CONDUIT	U.N.O.	UNLESS NOTED OTHERWISE
C/B	CIRCUIT BREAKER	V	VOLTS
CCT	CIRCUIT	VA	VOLT - AMPERES
DIA.	DIAMETER	W	WATTS OR WIRE
E.C.	ELECTRICAL CONTRACTOR	WG	WIRE GUARD
FLA	FULL LOAD AMPS	WP	WEATHER PROOF
GFI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER
HP	HORSEPOWER	IP	SINGLE POLE
MCA	MINIMUM CIRCUIT AMPS	2P	TWO POLE
MCB	MAIN CIRCUIT BREAKER	3P	THREE POLE
MLO	MAIN LUGS ONLY	PH	PHASE
MOCP	MAXIMUM OVERCURRENT PROTECTION	Ø	PHASE

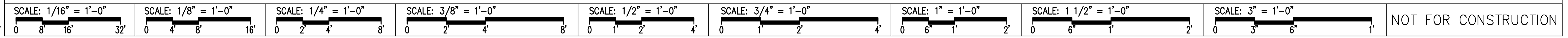
ELECTRICAL SYMBOL LIST

	DUAL DATA JACK. REFER TO "JUNCTION BOX ROUGH-IN DETAIL". PROVIDE JUNCTION BOX AND BLANK FACEPLATE AND CONDUIT STUB. <u>PROVIDE THREADED/SCREWED INSULATED BUSHING.</u>
	QUAD DATA JACK. REFER TO "JUNCTION BOX ROUGH-IN DETAIL". PROVIDE JUNCTION BOX AND BLANK FACEPLATE AND CONDUIT STUB. <u>PROVIDE THREADED/SCREWED INSULATED BUSHING.</u>
	WALL PHONE DROP LOCATION (48" A.F.F.). REFER TO "JUNCTION BOX ROUGH-IN DETAIL". PROVIDE JUNCTION BOX AND BLANK FACEPLATE AND CONDUIT STUB. <u>PROVIDE THREADED/SCREWED INSULATED BUSHING.</u>
	POWER OUTLET, CEILING MOUNTED
	COMBINATION POWER/INFORMATION OUTLET, CEILING MOUNTED
	COMBINATION POWER/INFORMATION OUTLET, FLOOR MOUNTED
	20A. 2P, 3 WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 16" A.F.F. UNLESS NOTED OTHERWISE, IVORY IN COLOR.
	SAME AS ABOVE (NEMA 5-20R), MOUNTED OR INSTALLED 6" ABOVE COUNTER TOP OR (+42" A.F.F.)
	TWO 20 AMP 2P; 3 WIRE, GROUNDING TYPE, 120 VOLT SPECIFICATION GRADE DUPLEX RECEPTACLES NEMA 5-20R INSTALLED 16" A.F.F. UNLESS NOTED OTHERWISE, IVORY IN COLOR. "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT INTERRUPTER.
	FLUSH FLOOR MOUNTED DEVICE, BACKBOX FOR DEVICE AS SHOWN (PENETRATION FROM FLOOR BELOW)
	NON-FUSED SAFETY DISCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED
	COMBINATION MOTOR STARTER WITH FUSED DISCONNECT SWITCH
	MOTOR STARTER
	FUSED DISCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED



	MOTOR CONNECTION, HORSEPOWER, VOLTAGE AND PHASE AS NOTED
	CEILING JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL CONNECTION TO EQUIPMENT
	VOLUME CONTROL SWITCH
	SURGE PROTECTION DEVICE
	EMERGENCY PHONE MANUFACTURED BY TALKPHONE MODEL # ETP-MT/ROP4 - PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING TO DATA CLOSET FOR VOICE AND SECURITY CABLING
	EMERGENCY PHONE MANUFACTURED BY TALKPHONE MODEL # WEBS-WM - PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING TO DATA CLOSET FOR VOICE AND SECURITY CABLING
	EMERGENCY PHONE MANUFACTURED BY TALKPHONE MODEL # VOIP-500 - PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING TO DATA CLOSET FOR VOICE AND SECURITY CABLING

	MAGNETIC DOOR HOLD
	WIRELESS ACCESS POINT
	CEILING MOUNTED OCCUPANCY SENSOR - SEE SCHEDULE
	ELECTRONIC DOOR (LOCK) STRIKE (REFER TO SECTION 087100 AND A80 FOR MORE INFORMATION)
	DOOR CONTACTS - PROVIDE ROUGH-IN
	CARD READER - PROVIDE ROUGH-IN
	ROUGH-IN FOR FUTURE PROJECTOR CABLING. 1 1/2" C.
	SECURITY CAMERA - PROVIDE 3/4" DEDICATED EMPTY CONDUIT WITH PULL STRING AND BACK BOX AT EACH LOCATION
	SURFACE MOUNTED BATTERY OPERATED CLOCK (DF) DENOTES DOUBLE FACE
	FLUSH CEILING MOUNTED SPEAKER
	WALL MOUNTED PROTECTION TYPE SPEAKER
	FIRE ALARM SYSTEM PULL STATION INSTALLED +48" A.F.F.
	FIRE ALARM SYSTEM VISUAL SIGNAL INSTALLED +80" A.F.F.
	FIRE ALARM SYSTEM SPEAKER/VISUAL HORN INSTALLED +80" A.F.F.
	FIRE ALARM SYSTEM CEILING SMOKE DETECTOR
	FIRE ALARM SYSTEM CEILING HEAT DETECTOR "FT" DENOTES FIXED TEMPERATURE
	FIRE ALARM SYSTEM CEILING CARBON MONOXIDE DETECTOR. MANUFACTURER = SYSTEM SENSOR, CO DETECTOR MODEL #1224T WITH MONITOR MODULE #MMF-301. PROVIDE ALL CONNECTIONS AND CABLING PER MANUFACTURER RECOMMENDATIONS, INTERLOCK AND INTERFACE WITH MAIN FIRE ALARM CONTROL PANEL.
	DUCT SMOKE DETECTOR REMOTE INDICATING LIGHT WITH KEY OPERATED TEST SWITCH
	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR
	WATER FLOW SWITCH
	TAMPER SWITCH
	VALVE SUPERVISORY SWITCH
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
	CIRCUIT BREAKER PANELBOARD.
	DISTRIBUTION PANEL.
	DRY TYPE TRANSFORMER
	CONDUIT WALL SLEEVE FOR ROUTING OF LOW VOLTAGE CABLING. PROVIDE FOR EACH SHOWN, A MINIMUM OF (2) 2" CONDUIT(S) STUBBED INTO CEILING SPACES, UNLESS SPECIFICALLY NOTED OTHERWISE. <u>PROVIDE THREADED/SCREWED INSULATED BUSHINGS AT EACH END.</u>
	CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 AWG CONDUCTORS OR AS NOTED
	CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 AWG CONDUCTORS OR AS NOTED
	CONDUIT INSTALLED BELOW GRADE. HASH MARK DENOTES QUANTITY OF #12 AWG CONDUCTORS OR AS NOTED
	DENOTES CONDUIT HOMERUN, 3/4" MINIMUM, PANEL DESTINATION AND CIRCUIT NUMBER(S) AS INDICATED
	SHORT TICK MARK DENOTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 AWG MINIMUM.
	LONG TICK MARK DENOTES NEUTRAL CONDUCTOR, #10 AWG MINIMUM
	DENOTES INSULATED GROUND WIRE, #12 AWG MINIMUM



NOT FOR CONSTRUCTION

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

OAK BROOK PARK DISTRICT
1450 Forest Gate Road
Oak Brook, IL 60523

ISSUED FOR BID	12-06-2017	
OWNER REVIEW	11-15-2017	
75% DESIGN DEVELOPMENT	06-22-2017	
REV	DESCRIPTION	DATE

CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
OAK BROOK, IL 60523

ELECTRICAL NOTES,
SYMBOLS AND
ABBREVIATIONS

Project Number:
5646-03
Drawn By:

Sheet:

EO.1

S:\Darien\Oak Brook District\5646-03_Oak Brook PD Central Park Improvements\10\E_Drawings\3-CD\E0.2_5606-03.dwg r1andag Dec 06, 2017 7:22:35 am
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ELECTRICAL SPECIFICATIONS

(NOT ALL SECTION APPLICABLE TO THIS PROJECT, SEE PLANS FOR SCOPE)

I. SCOPE

THE WORK COVERED BY THIS SPECIFICATION INCLUDES THE COMPLETE ELECTRICAL SYSTEM.

THE WORK TO BE PERFORMED UNDER THE ELECTRICAL SPECIFICATIONS AND DRAWINGS CONSISTS OF FURNISHING ALL LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

- A. CONDUIT AND WIRING.
- B. PANELBOARDS.
- C. ELECTRICAL EQUIPMENT AND WIRING.
- D. LIGHTING FIXTURES
- E. TELEPHONE AND DATA RACEWAY SYSTEM

II. GENERAL

THIS SPECIFICATION IS INCLUSIVE FOR EACH ITEM REQUIRING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO PROPERLY INSTALL, ALTER, ADJUST AND PUT IN OPERATION, THE COMPLETE ELECTRICAL SYSTEM.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER LAYOUT AND CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT.

THE DRAWINGS AND SPECIFICATIONS SHALL BE UNDERSTOOD TO COVER, ACCORDING TO THEIR INTENT AND MEANING, COMPLETE SYSTEMS AS DESCRIBED HEREIN.

MINOR ITEMS, ACCESSORIES AND DEVICES REASONABLY INFERABLE AS NECESSARY FOR THE COMPLETE AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR FOR SUCH SYSTEM(S) WHETHER THEY ARE SPECIFICALLY CALLED FOR BY THE DRAWINGS AND/OR SPECIFICATIONS OR NOT.

III. VISIT TO SITE

ATTENTION IS DIRECTED TO THE NECESSITY FOR CONTRACTOR TO VISIT THE SITE AND EXAMINE ALL CONDITIONS AFFECTING THE PROPER EXECUTION OF THIS CONTRACT. SUBMISSION OF PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS VISITED AND EXAMINED THE SITE.

NO EXTRA PAYMENT WILL BE ALLOWED THE CONTRACTOR FOR EXTRA WORK CAUSED BY FAILURE TO VISIT, EXAMINE AND CLARIFY.

IV. LAWS, ORDINANCES AND REGULATIONS

ALL SYSTEMS SHALL CONFORM IN FULL AND/OR PART SHALL CONFORM TO ALL PERTINENT LAWS, ORDINANCES AND REGULATIONS OF ALL BODIES HAVING JURISDICTION AT ALL GOVERNING LEVELS, NOTWITHSTANDING ANYTHING IN THESE DRAWINGS OR SPECIFICATIONS TO THE CONTRARY. IN CASE OF CONFLICT BETWEEN GOVERNING LEVELS, THE MORE STRINGENT LAWS SHALL APPLY.

THE CONTRACTOR SHALL PAY ALL FEES AND OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY AUTHORITY HAVING JURISDICTION IN CONNECTION WITH HIS WORK.

WHERE APPLICABLE, ALL NEW MATERIAL SHALL BEAR THE UNDERWRITER'S SEAL OF APPROVAL, AS WELL AS THOSE SEALS OF ALL MUNICIPALITIES HAVING JURISDICTION CERTIFICATES TO THIS AFFECT TO BE FURNISHED TO ARCHITECT UPON REQUEST.

THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL LICENSES REQUIRED BY THE GOVERNING BODIES TO OPERATE AS AN ELECTRICAL CONTRACTOR FOR THIS PROJECT.

V. WORKMANSHIP

ALL WORK TO BE PERFORMED SHALL BE DONE BY QUALIFIED MECHANICS IN THE EMPLOY OF THIS CONTRACTOR ON THIS PROJECT SHALL BE SKILLED IN THE PHASES OF THE WORK TO WHICH THEY ARE USED.

THE COMPLETE SYSTEM SHALL MEET THE REQUIREMENTS OF THE NATIONAL CURRENT EDITION OF THE ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE.

VI. MATERIALS AND EQUIPMENT

ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE GRADE, QUALITY AND STANDARD SPECIFIED HEREIN.

ALL EQUIPMENT OFFERED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR SERVICE, IN ACCORDANCE WITH ENGINEERING DATA, RATINGS OR OTHER COMPREHENSIVE LITERATURE MADE AVAILABLE TO THE PUBLIC AND IN EFFECT AT THE TIME OF OPENING BIDS.

EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR TYPE AND CAPACITY OF EACH PIECE OF EQUIPMENT USED.

VII. COORDINATION WITH OTHER TRADES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THAT WORK OF THE OTHER TRADES. CONTRACTOR IS COMPLETELY RESPONSIBLE IF FAILURE ON HIS PART TO COORDINATE EFFORTS RESULTS IN EXTRA WORK HAVING TO BE DONE TO COMPLETE A TASK. AS SUCH, HIS FAILURE SHALL NOT BE THE BASIS FOR ANY EXTRA CHARGE AGAINST THE OWNER.

VIII. GROUNDING

PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE, THE NATIONAL SAFETY CODE AND ALL AGENCIES/AUTHORITIES NOTED ABOVE.

IX. WIRING – MANNER OF INSTALLATION

ALL WIRES SHALL BE INSTALLED IN METALLIC CONDUIT. PROVIDE THIN WALL CONDUIT (EMT) IN ALL LOCATIONS EXCEPT WHERE PROHIBITED BY CODE, EXPOSED TO WEATHER, EXPOSED TO MECHANICAL INJURY OR WHERE BURIED IN OR BELOW SLABS ON GRADE. IN THOSE LOCATIONS PROVIDE RIGID STEEL CONDUIT.

THE ENTIRE CONDUIT SYSTEM SHALL BE INSTALLED BOTH ELECTRICALLY AND MECHANICALLY CONTINUOUS. CONDUIT FITTINGS SHALL BE SUITABLE FOR THE PURPOSE AND SHALL BE SET SCREW OR COMPRESSION TYPE ONLY. INDENTER TYPE FITTINGS ARE STRICTLY PROHIBITED.

THE COMPLETE INSTALLATION SHALL MEET ALL APPLICABLE CODE REQUIREMENTS.

X. WIRE AND CABLE

WIRE AND CABLE FOR BRANCH CIRCUITS AND SECONDARY FEEDERS WITHIN THE BUILDING SHALL BE OF COPPER, THERMOPLASTIC INSULATED, TYPE THWN OR THHN, 600VOLT. TYPE THW MAY BE USED IN LIEU OF TYPE THWN OR THHN IN SIZES OF #12 AND #10 AWG IN DRY LOCATIONS AT THE CONTRACTOR'S OPTION. WIRE BENEATH OR IN THE GROUND FLOOR AND OTHER WET LOCATIONS SHALL BE TYPE THWN. ALL WIRE SHALL BE STRANDED.

NO WIRE SMALLER THAN #12 AWG SHALL BE USED ON THIS PROJECT UNLESS INDICATED. LOW VOLTAGE CONTROL AND SIGNAL CIRCUITS MAY BE #18 AWG.

CONDUCTORS OF DIFFERENT VOLTAGES (*LOW VOLTAGE vs. 120/208 VOLT) SHALL NOT OCCUPY THE SAME WIRING ENCLOSURE, CABLE OR RACEWAY.

XI. SPLICING

SPLICING WIRES SHALL BE DONE ONLY IN ACCESSIBLE OUTLET JUNCTION OR PULL BOXES. SPLICES SHALL BE MADE STRICTLY IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CABLE MANUFACTURER USING THE METHODS AND MATERIALS RECOMMENDED BY HIM.

FOR #10 AND #12 WIRE, SPLICES SHALL BE MADE WITH SCOTCH-LOK CONNECTORS.

WIRE #8 AND LARGER SHALL BE CONNECTED WITH BURNDY OR EQUAL SOLDER LESS MECHANICAL LUG AND PAINTED WITH INSULATING VARNISH.

ALL CONNECTIONS SHALL BE PROPERLY TAPED WITH SCOTCH ELECTRICAL TAPE #22, #33 OR APPROVED EQUAL.

XII. JUNCTION AND PULL BOXES

JUNCTION BOXES, PULL BOXES AND TERMINAL BOXES SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND AT OTHER LOCATIONS AS REQUIRED TO FACILITATE THE PULLING OF CABLES. THEY SHALL BE CODE SIZED AND SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED SHEET STEEL. EACH BOX SHALL BE PROVIDED WITH A SCREW-ON REMOVABLE COVER. PROVIDE FLANGED COVERS ON FLUSH BOXES. BOXES SHALL BE SMOOTH, SQUARE AND SET PARALLEL WITH WALLS AND CEILING.

XIII. CONDUIT AND ELECTRIC METALLIC TUBING

CONDUIT AND ELECTRIC METALLIC TUBING SHALL BE IN ACCORDANCE WITH ARTICLES 344 AND 358 OF THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE.

CONDUIT AND ELECTRIC METALLIC TUBING SHALL BE GALVANIZED STEEL.

THE CONDUIT SHALL BE INSTALLED PERPENDICULAR AND PARALLEL TO THE BUILDING LINES.

ALL CONDUIT INSTALLED OVERHEAD SHALL BE RIGIDLY SUPPORTED FROM THE STRUCTURE ABOVE AND NOT FROM ANY PART OF THE ROOFING SYSTEM OR CEILING SYSTEM. CEILING SYSTEM TO INCLUDE T-BAR GRID, SUPPORT WIRES, ETC.

XIV. OUTLET BOXES

GENERALLY, OUTLET BOXES OF PROPER TYPE AND NOT LESS THAN 4 INCHES SQUARE OR OCTAGONAL, AS REQUIRED BY BUILDING CONDITIONS, SHALL BE PLACE AT ALL LIGHT, RECEPTACLE AND SWITCH OUTLETS. OUTLET BOXES SHALL BE FIRMLY SECURED IN PLACE AND SHALL BE SET TRUE, SQUARE AND FLUSH WITH THE FINISHED SURFACES. CONTRACTOR SHALL MOVE ANY OUTLET BOX 5 FEET IN ANY DIRECTION WITHOUT COST, IF RELOCATED PRIOR TO INSTALLATION.

XV. WIRING DEVICES

ACCEPTABLE MANUFACTURERS:

- 1. ARROW HART
- 2. BRYANT
- 3. HUBBELL

SWITCHES SHALL BE OF THE AC HEAVY DUTY, 120/277 VOLT, FLUSH TOGGLE TYPE RATED AT 20 AMPERES AND UL APPROVED. ALL SWITCHES SHALL HAVE POLES AS REQUIRED AND SHALL BE SIMILAR TO HUBBELL 1221. DEVICES TO BE IVORY ONLY. RECEPTACLES SHALL BE POLARIZED, GROUNDED, DUPLEX, RATED 20 AMPERES AND UL APPROVED. ALL GENERAL PURPOSE RECEPTACLES SHALL BE SIMILAR TO HUBBELL NO. 5362-1 ALL ISOLATED GROUND RECEPTACLES SHALL BE SIMILAR TO HUBBELL ICS362, UNLESS NOTED OTHERWISE. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE SIMILAR TO HUBBELL GF-5362-1.

XVI. PLATES

SWITCH AND RECEPTACLE PLATES IN FINISHED AREAS SHALL BE IVORY WRINKLE FINISHED METAL. ALL PLATES IN SHOP AREA SHALL BE FORMED STEEL (GARVIN COVERS).

XVII. PANELBOARDS

- 1. CULTER-HAMMER
- 2. SIEMENS
- 3. SQUARE D COMPANY

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL PANELBOARDS AND CABINETS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

PANELBOARDS SHALL BE DEAD FRONT, WITH CAPACITY AND VOLTAGE CHARACTERISTICS AS SHOWN ON THE SCHEDULES. MAIN BUS BARS SHALL BE COPPER AND BASED ON A CURRENT DENSITY OF NOT MORE THAN 1000 AMPERES PER SQUARE INCH CROSS SECTION AND SHALL BE FULL CAPACITY THE ENTIRE LENGTH OF THE PANEL. BUSSING SHALL BE SEQUENCED SO AS TO PERMIT THE INSTALLATION OF FUSIBLE SWITCHES OR 1, 2, AND 3 POLE BREAKERS AT ANY LOCATION. LUGS SHALL BE SUITABLE FOR COPPER CABLE.

FUSIBLE SWITCHES SHALL BE 3 POLE, SEPARATELY COMPARTMENT WITH CLASS RK1 FUSE CLIPS.

CIRCUIT BREAKERS SHALL BE QUICK-MADE, QUICK-BREAK, SWITCHING DUTY RATED FOR 20A BREAKERS, TRIP INDICATING AND AMBIENT COMPENSATED, WITH COMMON TRIP ON MULTI-POLE BREAKERS. CIRCUIT BREAKERS SHALL BE BOLT-ON CONNECTED TO THE PANELBOARD, MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AIC FOR 120/208 VOLT CIRCUIT BREAKERS. (PLUG-IN BREAKERS ARE NOT APPROVED.)

BREAKERS USED FOR EXIT SIGNS, EMERGENCY LIGHTING AND NIGHT LIGHTING CIRCUITS TO BE LOCKED IN THE ON POSITION.

PANELBOARDS BOXES SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL WITH 4 INCH MINIMUM SIDE GUTTERS AND 5 INCH MINIMUM END GUTTERS. SHALL NOT EXCEED 78 INCHES ABOVE FINISHED FLOOR.

EACH BRANCH CIRCUIT SHALL BE DISTINCTLY NUMBERED. PANELBOARD WIRING SHALL BE TAGGED AT EACH BREAKER WITH PROPER CIRCUIT NUMBER. WRAP AROUND TAPES (BRADY TAGS) WILL BE ACCEPTABLE.

PANELBOARDS SHALL CONFORM TO LATEST REQUIREMENT OF THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE, UNDERWRITER'S LABORATORIES AND NEMA AND SHALL DISPLAY A SERVICE ENTRANCE LABEL WHERE APPLICABLE. EACH PANELBOARD SHALL BE LEFT WITH A TYPEWRITTEN DIRECTORY, IDENTIFYING EACH LOAD, AFFIXED TO THE INSIDE COVER OF THE PANELBOARD.

PROVIDE PERMANENT IDENTIFICATION NAMEPLATE ON ALL PANELBOARDS AND DISTRIBUTION PANELS. PROVIDE DISTRIBUTION PANELS PROVIDE NAMEPLATE AT EACH PIECE OF EQUIPMENT.

XVIII. FIRE STOPPING

CONTRACTOR SHALL FIRE STOP ALL PENETRATIONS THRU FIRE RATED WALLS, PARTITIONS, ROOFS AND/OR FLOORS SO THAT THE INTEGRITY OF THE FIRE RATING IS NOT COMPROMISED BY THE CONTRACTOR'S INSTALLATION OF ANY BOX, CABLE TRAY, RACEWAY AND/OR CONDUIT. FIRE STOPPING METHODS AND MATERIALS SHALL CONFORM TO LOCAL CODE AUTHORITY REQUIREMENTS. AS A MINIMUM, CONTRACTOR SHALL GROUT AROUND ALL BOXES, CABLE TRAYS, RACEWAYS, CONDUITS, ETC., IN PENETRATION RATED PARTITION/FLOOR CONSTRUCTION WITH NON-SHRINK GROUT SO THAT ALL OPEN SPACES ARE FILLED IN SOLIDLY.

THIS CONTRACTOR SHALL PROVIDE SUITABLY RATED LIGHTING FIXTURES OR UTILIZE APPROVED MATERIALS AND METHODS TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF ALL FIRE RATED CEILINGS, PARTITIONS AND WALLS.

XIX. BALANCING

THE SYSTEM OF FEEDERS AND BRANCH CIRCUITS FOR POWER AND LIGHTING SHALL BE CONNECTED IN SUCH A MANNER THAT THE CONNECTED LOADS ARE BALANCED ELECTRICALLY ON THE THREE PHASES AS CLOSELY AS POSSIBLE (WITHIN 10 PERCENT) SHOULD THE POWER COMPANY FIND AN UNFAVORABLE OPERATING CONDITION, REACTING ON THE SERVICE, THE ELECTRICAL CONTRACTOR SHALL MAKE SUCH CHANGES REQUIRED TO BALANCE THE LOAD WITHOUT ADDITIONAL COST THE OWNER.

XX. TESTING AND ADJUSTMENTS

ALL WORK SHALL BE TESTED BY THIS CONTRACTOR. ALL MATERIAL, LABOR AND EQUIPMENT SHALL BE FURNISHED BY HIM TO ACCOMPLISH SUCH TESTS AS ARE REQUIRED BY THE ARCHITECT/ENGINEER.

UPON COMPLETION OF THIS WORK, THE PROJECT SHALL BE FREE FROM SHORT CIRCUITS AND GROUNDS AND A THOROUGH TEST SHALL BE MADE. ALL OVERLOAD DEVICES, INCLUDING THOSE FURNISHED UNDER OTHER CONTRACTS SHALL BE ADJUSTED TO SUIT LOAD CONDITIONS BY THIS CONTRACTOR. ALL SYSTEMS SHALL BE TESTED AND THEIR OPERATION DEMONSTRATED.

LIGHTING EQUIPMENT SHALL BE ADJUSTED TO THE SATISFACTION OF THE OWNER.

XXI. LIGHTING FIXTURES

LIGHT FIXTURES SHALL BE PROVIDED AS SPECIFIED ON DRAWINGS. ALL FIXTURES SHALL BE HUNG AND MOUNTED IN PLACE, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION BY THE ELECTRICAL CONTRACTOR.

HANGING DEVICES, BRACKETS, ENCLOSURES AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE INSTALLATION AND SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL FIXTURES SHALL BE HUNG PLUMB AND SET SQUARE AGAINST THE WALL OR CEILING OR SUSPENDED AS DESIGNATED.

MOUNTING HEIGHT OF ALL FIXTURES SHALL BE CONFIRMED BEFORE INSTALLATION.

FIXTURES SHALL BE COMPLETE WITH BASE, GLASSWARE, REFLECTORS, LAMPS, HOLDERS AND ACCESSORIES. FIXTURES SHALL BE COMPLETELY WIRED ACCORDING TO CODE. MINIMUM WIRE SIZE PERMITTED IN FIXTURE WHIPS IS #14 AWG. FLUORESCENT FEATURES SHALL BE COMPLETE WITH NOISE FREE, HIGH POWER FACTOR, ENERGY SAVING RAPID START BALLAST'S WITH INTERNAL PROTECTION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE. ALL FIXTURES SHALL CARRY THE UL LABEL.

WHERE LOCATED BENEATH DUCTWORK, THE CONTRACTOR IS PROHIBITED FROM PUNCTURING THE DUCTWORK OR MOUNTING FIXTURES DIRECTLY TO THE DUCTWORK. THE CONTRACTOR MAY MOUNT THE LIGHTING FIXTURES TO THE DUCTWORK SUPPORT MEMBERS.

CONTRACTOR TO SUBMIT SHOP DRAWINGS ON THIS ITEM.

XXII. INFORMATION SYSTEM

THIS CONTRACTOR SHALL FURNISH AND INSTALL BACKBOXES WITH BLANK COVER PLATES AND 3/4" CONDUIT WITH PULLWIRE STUBBED INTO ACCESSIBLE CEILING SPACE FOR TELEPHONE AND DATA WIRING BY OTHERS.

XXIII. ELECTRICAL SERVICE ENTRANCE

THIS CONTRACTOR SHALL PROVIDE TRANSFORMER PAD, SECONDARY FEEDERS, METERING TRANSFORMER CABINET, METER SOCKET, MAIN SWITCH AND ALL CUTTING, PATCHING, TRENCHING AND RESTORATION REQUIRED TO PROVIDE NEW ELECTRICAL SERVICE.

COORDINATE ALL WORK IN ADVANCE WITH COMMONWEALTH EDISON COMPANY.

XXIV. GUARANTEE

THIS CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE IN WRITING ALL MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. THE CONTRACTOR SHALL PROVIDE FREE SERVICE FOR ALL EQUIPMENT INVOLVED IN HIS CONTRACT DURING THIS GUARANTEE PERIOD.

THE GUARANTEE SHALL INCLUDE RESTORATION TO ITS ORIGINAL CONDITION OF ALL ADJACENT WORK THAT MUST BE DISTURBED IN FULFILLING THIS GUARANTEE.

ALL SUCH REPAIRS AND/OR REPLACEMENTS SHALL BE MADE WITHOUT DELAY AND AT THE CONVENIENCE OF THE OWNER.

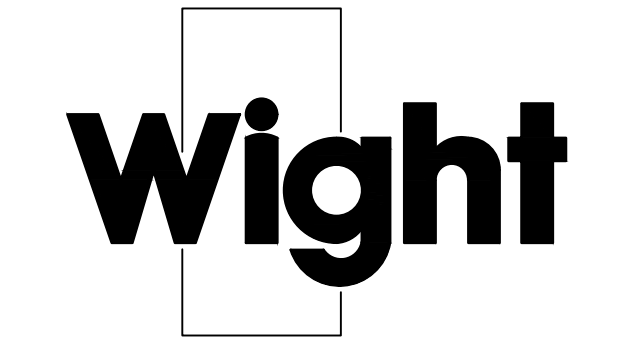
XXV. SUBSTITUTIONS

APPROVALS OF SUBSTITUTIONS, FOR "APPROVED EQUAL", MUST BE MADE IN WRITING AND SUBSTITUTIONS MUST BE APPROVED BEFORE INSTALLATION. INSTALLATION WITHOUT PRIOR APPROVAL MAY RESULT IN CONTRACTOR REMOVING SUBSTITUTION AND REPLACING IT WITH SPECIFIED ITEM AT HIS EXPENSE.

APPROVAL MAY BE GIVEN BY ARCHITECT OR ENGINEER.

GENERAL NOTES – ELECTRICAL

1. CONTRACTOR SHALL FURNISH MATERIALS AND USE INSTALLATION METHODS SUITABLE FOR THE ENVIRONMENTAL CONDITIONS OF THE AREA IN WHICH EQUIPMENT, FIXTURES, AND DEVICES ARE INSTALLED.
2. ALL CONNECTIONS TO EQUIPMENT WHICH ARE SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH FLEXIBLE CONDUIT.
3. THE LOCATIONS SHOWN FOR ALL LIGHTING FIXTURES AND CEILING MOUNTED ELECTRICAL EQUIPMENT ARE DIAGRAMMATIC. EXACT LOCATION SHALL BE DETERMINED FROM THE REFLECTED CEILING PLANS AND/OR ON THE JOB SITE BY THE ARCHITECT/ENGINEER REPRESENTATIVES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CODE REQUIRED SPACINGS FOR ITEMS SUCH AS FIRE ALARM DEVICES.
4. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE FIRE RATED INTEGRITY OF FLOORS CEILINGS AND/OR WALL PARTITIONS. ALL PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS SHALL BE EFFECTIVELY SEALED USING APPROVED MATERIALS AND METHODS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL BE INSTALLED TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING USING APPROVED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CONSTRUCTION TYPES AND RATINGS.



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

**OAK BROOK PARK DISTRICT
 1450 Forest Gate Road
 Oak Brook, IL 60523**

ISSUED FOR BID	12-06-2017	
OWNER REVIEW	11-15-2017	
75% DESIGN DEVELOPMENT	06-22-2017	
REV	DESCRIPTION	DATE

CENTRAL PARK IMPROVEMENTS

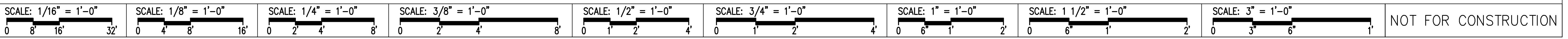
**1500 FOREST GATE ROAD
 OAK BROOK, IL 60523**

ELECTRICAL SPECIFICATIONS

Project Number:
 5646-03
 Drawn By:

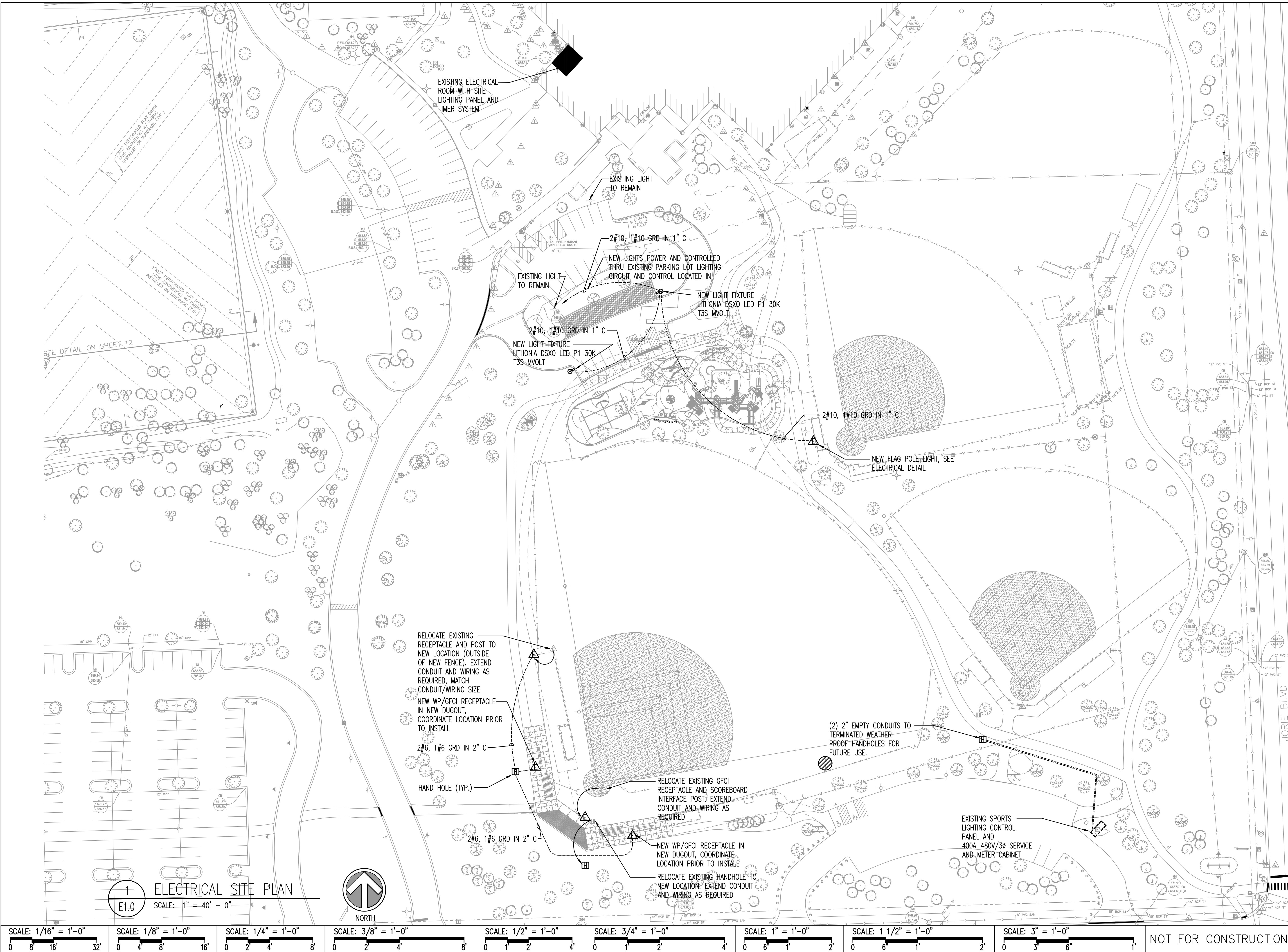
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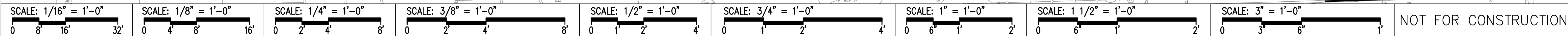
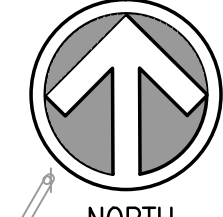


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1 ELECTRICAL SITE PLAN
 E1.0 SCALE: 1" = 40' - 0"



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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
 OAK BROOK, IL 60523

OVERALL ELECTRICAL
 SITE PLAN

Project Number:
 5646-03
 Drawn By:

Sheet:

E1.0

SITE LIGHTING PLAN GENERAL NOTES:

- L1. UNLESS OTHERWISE NOTED, ALL EXTERIOR LIGHTING WIRING SHALL BE #10 AWG, COPPER. ALL EXTERIOR LIGHTING WIRING SHALL BE ROUTED IN PVC SCHEDULE 40 CONDUIT, MINIMUM 36" BELOW GRADE. VERIFY EXACT LOCATION OF ALL OUTDOOR LIGHTING WITH GENERAL CONTRACTOR.
- L2. ALL PENETRATIONS THROUGH BUILDING SHALL BE SEALED WATER TIGHT PER ARCHITECTS REQUIREMENTS. SECURELY MOUNT CONDUIT TO WALL AS REQUIRED.
- L3. PROVIDE ALL TRENCHING, AND BACKFILL AS REQUIRED. BACKFILL PER ARCHITECTS REQUIREMENTS, SURFACE SUITABLE FOR FINAL PAVEMENT LAYER. FINAL PAVEMENT BY OTHERS, THIS CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO ANY EXCAVATION.
- L4. SITE LIGHTING PLAN (PHOTOMETRICS AND DESIGN VERIFICATION) SHALL BE SUBMITTED TO THE AUTHORITY PRIOR TO START OF WORK.
- L5. MINIMUM REQUIREMENT PER POLE LOCATION SHALL BE (3) SETS OF (2) 10AWG + GROUND CABLE TYPE LABELED EITHER THHN OR THWN. LEAVE 5' OF COILED TAPED WIRE NEATLY TRIMMED AND LABELED IN LIGHT FIXTURE HAND HOLE.
- L6. EACH HEAD OF THE FIXTURE MUST BE WIRED DOWN TO THE HANDHOLE INDEPENDENTLY. ALL LIGHTING CIRCUITS MUST BE PRESENT AT THE BASE OF EACH POLE SO THAT WIRING CAN BE ACCESSED FOR FUTURE CIRCUIT MODIFICATION/ REWIRING AS REQUIRED.
- L7. PHOTOCELL, CONTACTORS, RELAYS, TIME/CLOCK SHALL BE PROVIDED FOR A COMPLETE LIGHTING CONTROL INSTALLATION. COORDINATE WITH BUILDING AUTOMATION SYSTEMS CONTRACTOR FOR ADDITIONAL INFORMATION. THREE SETS OF SPARE CONTACTOR/RELAYS SHALL BE PROVIDED PER ZONE AS MINIMUM.

CONCRETE PAD NOTES:

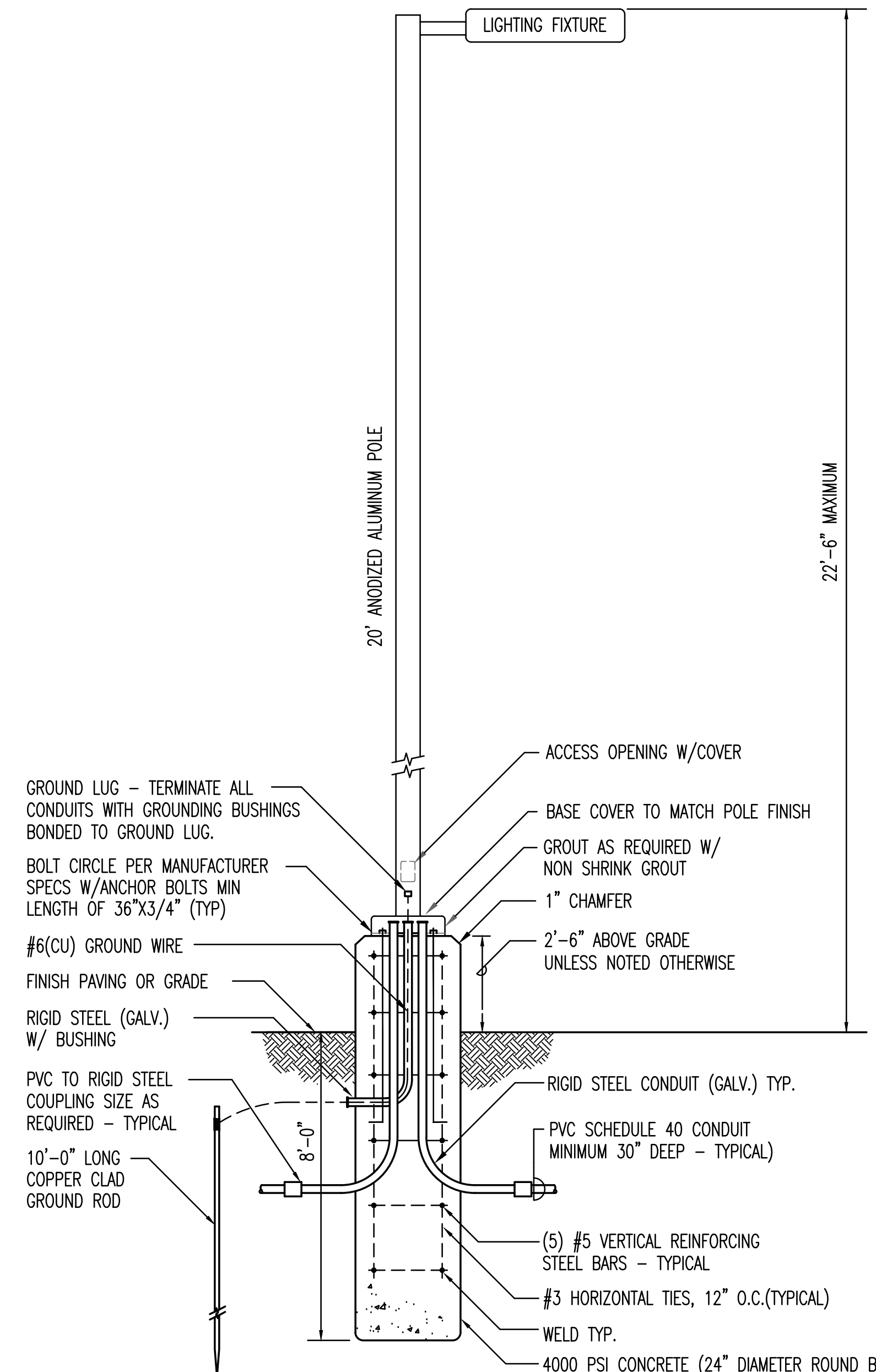
- C1. BOXED OUT OPENING FOR PRIMARY AND SECONDARY CONDUIT. CONDUIT SHALL NOT BE PROJECTED ABOVE THE SURFACE OF THE PAD.
- C2. NOTIFY THE UTILITY COMPANY IN ADVANCE BEFORE POURING CONCRETE TO MAKE ARRANGEMENT FOR INSPECTION OF PAD. TRANSFORMER GROUNDING AND INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH ComEd AND PER ComEd SYSTEM STANDARDS.
- C3. WORKING CLEARANCE SHALL BE KEPT OPEN ON FRONT SIDE OF THE TRANSFORMER AND METER CABINET/DISCONNECT SWITCHES.
- C4. CONCRETE PAD SHALL BE 8" THICK AND REINFORCED (WELDED WIRE MESH AND (1) #4 REBAR STIRRUP AT PERIMETER) WITH MINIMUM STRENGTH OF 3500 PSI AFTER 28 DAYS. COORDINATE DIMENSIONS WITH COMED.
- C5. ALL WORK SHALL BE IN COMPLIANCE WITH COMED STANDARDS AND NATIONAL ELECTRICAL CODE.

NEW SERVICE/ UTILITY WORK:

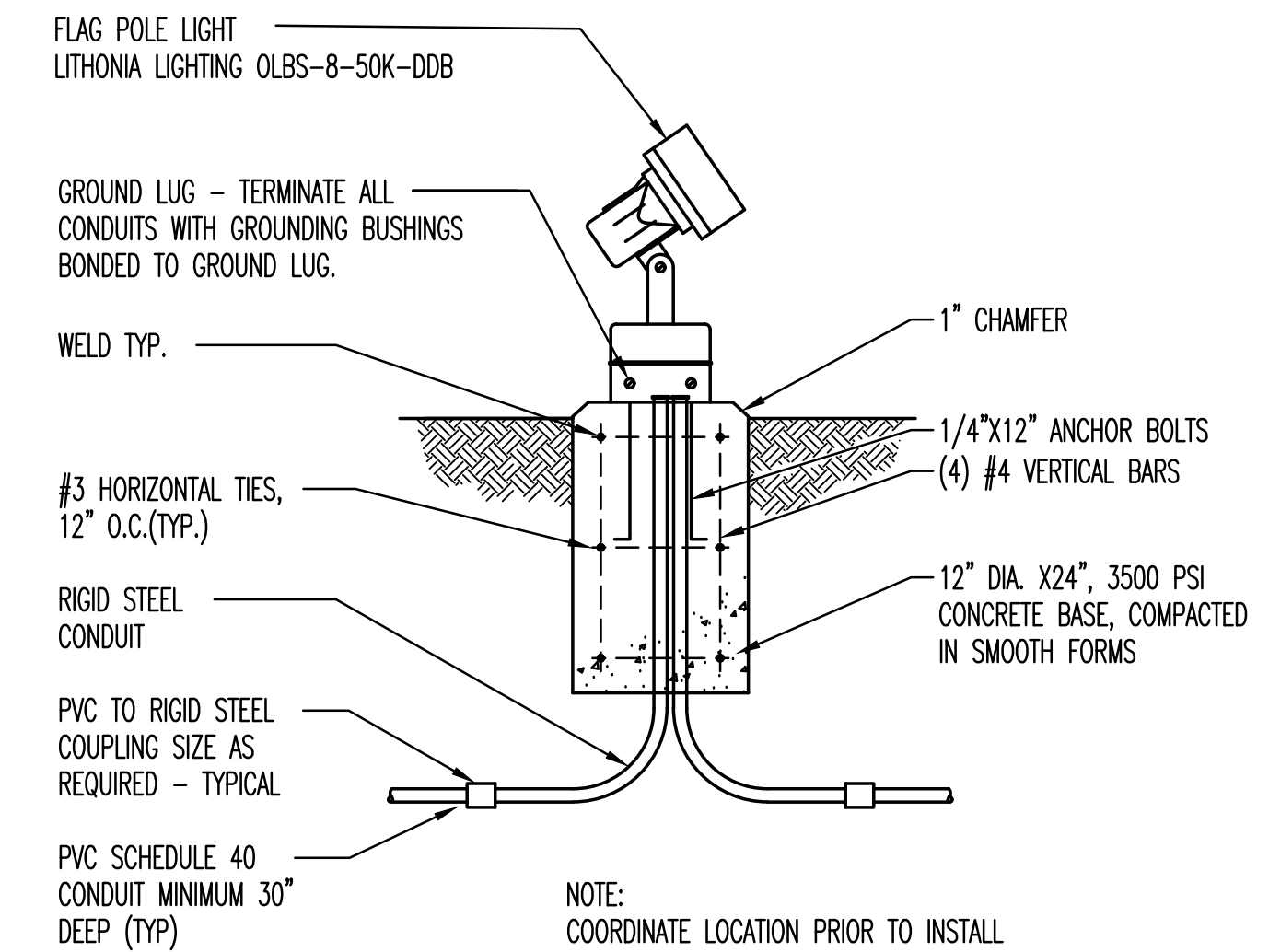
- S1. COORDINATE EXACT ROUTING OF SECONDARY SERVICE WITH ComEd REPRESENTATIVE AND GENERAL CONTRACTOR. CONTRACTOR SHALL MEET WITH ComEd REPRESENTATIVE AND INCLUDE ALL CONTRACTOR COSTS FOR SERVICE IN BASE BID.
- S2. VISIT AND EXAMINE CAREFULLY THE SITE SO AS TO BECOME FAMILIAR WITH CONDITIONS AND DIFFICULTIES THAT WILL BE ENCOUNTERED THE EXECUTION OF THE WORK, BEFORE SUBMITTING PROPOSALS. SUBMISSION OF A PROPOSAL WILL BE EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED.
- S3. INCLUDE COSTS IN BID PROPOSAL TO LOCATE AND MARK EXISTING UNDERGROUND UTILITIES WHERE NEW UNDERGROUND WORK IS INDICATED. PRIOR TO ANY CONSTRUCTION ACTIVITIES, FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.
- S4. UNDERGROUND INSTALLATION OF AN ELECTRICAL SERVICE CANNOT BE LOCATED IN THE SAME TRENCH WITH PLUMBING OR GAS SERVICE(S) UNLESS THE MINIMUM DISTANCE BETWEEN UTILITY SERVICES LOCATED IN THE SAME TRENCH, SHALL BE A MINIMUM OF TWELVE (12) INCHES MEASURED IN A HORIZONTAL DIMENSION. UTILITY SERVICES LOCATED IN SEPARATE TRENCHES SHALL BE LOCATED A MINIMUM OF TWELVE (12) INCHES APART HORIZONTALLY.

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

- ① COMMONWEALTH EDISON SERVICE ENTRANCE FEEDER(S). COORDINATE WITH CIVIL WORK, LANDSCAPE, AND UTILITY COMPANIES PRIOR TO START OF WORK. SEE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- ② NEW SERVICE 1200A, 480/277 VOLT 3 PHASE, 4 WIRE SERVICE COMMERCIAL METERING/TERMINATION BOXES WITH (1) 1200A-3P SERVICE SWITCH WITH OPTIONAL UNDERGROUND SERVICE RACEWAY REQUIRED FOR A COMPLETE INSTALLATION OR APPROVED EQUAL. SERVICE SHALL BE LOCATED A MINIMUM OF THREE (3) FEET FROM ANY GAS METER. COORDINATE WITH COMED AND GAS COMPANY FOR ADDITIONAL REQUIREMENTS. PROVIDE METER SOCKET, CT CABINET AND COMPLETE BUSSED SPACER REQUIRED/APPROVED BY UTILITY COMPANY. PROVIDE A SERVICE GROUNDING ELECTRODE/ CONDUCTOR, BONDING, JUMPER, RODS AND A COMPLETE GROUND SYSTEM PER NEC REQUIREMENTS.
- ③ PROVIDE INTERSYSTEM BONDING TERMINATION POINT PER NEC 250.94 REQUIRED TO BE AT EXTERNAL TO ENCLOSURES OF ONE OF THE FOLLOWING: A) METER SOCKET ENCLOSURE; B) SERVICE EQUIPMENT ENCLOSURE; C) GROUNDING ELECTRODE CONDUCTOR.
- ④ TO TELEPHONE DEMARCATION POINT. PROVIDE UNDERGROUND RACEWAY TO TELEPHONE (UTILITY TERMINAL BOX). COORDINATE EXACT REQUIREMENT WITH OWNER REPRESENTATIVE AND UTILITY COMPANIES. PROVIDE A MINIMUM (2) 4" EMPTY CONDUIT FOR FUTURE TELEPHONE AND CABLE-TV SERVICES.
- ⑤ FLAG POLE COMPLETE WITH TUNNEL LIGHT (2) 150MAX FLOOD LIGHTS (UP/DOWN) EACH TUNNEL ASSEMBLY. PROVIDE (1) 20A/1P BRANCH CIRCUIT WITH (3) #10AWG IN 3/4" UNDERGROUND RACEWAY.
- ⑥ EXTERIOR SPEAKER SYSTEM SHALL BE PROVIDED COMPLETE. VERIFY EXACT LOCATION IN FIELD.
- ⑦ TERMINATE CONDUIT @ 4" ABOVE FINISH GRADE WITH TREADED ON RIGID PIPE. CONDUITS SHALL BE ON EAST SIDE OF 5'-2" X 1'-2" CONCRETE PIER. TERMINATE CONDUITS IN CEILING OF CONFERENCE ROOM 102.

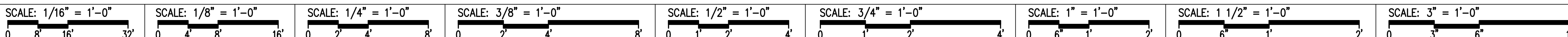


PARKING LOT LIGHTING POLE BASE DETAIL
NO SCALE



FLAG POLE LIGHT BASE DETAIL
NO SCALE

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CENTRAL PARK IMPROVEMENTS

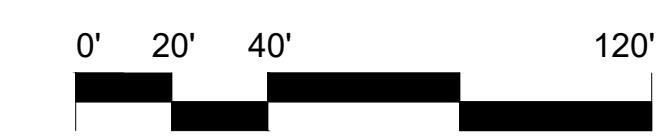
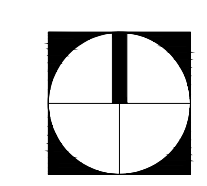
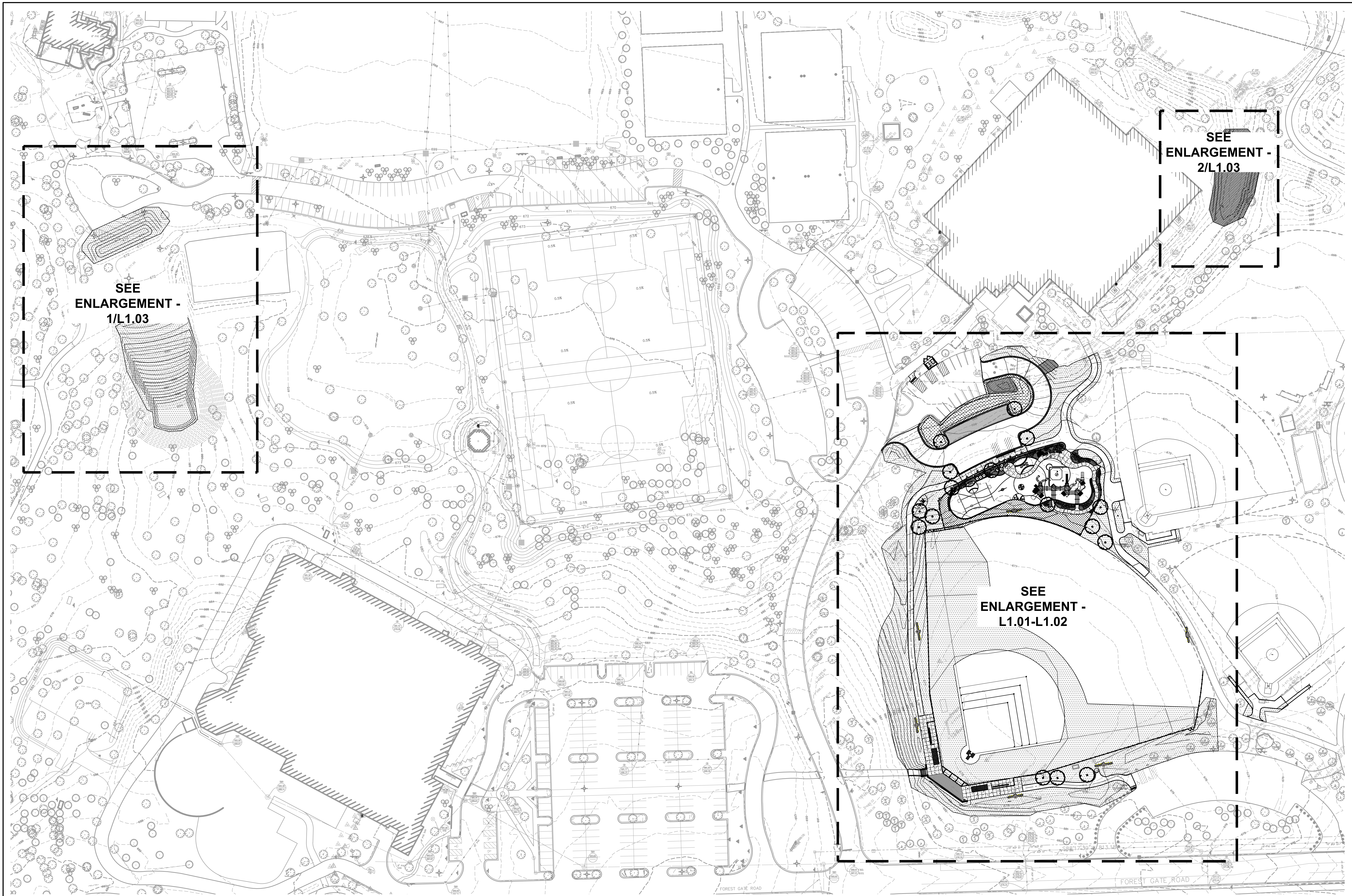
1500 FOREST GATE ROAD
OAK BROOK, IL 60523

ELECTRICAL DETAILS
NOTES

Project Number:
5646-03
Drawn By:

Sheet:
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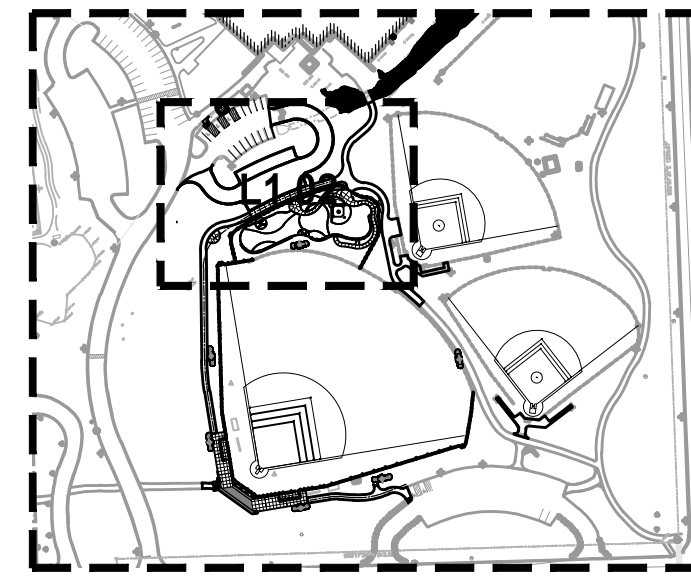
1" = 40'

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REV	DESCRIPTION	DATE
	ISSUED FOR BID	12-6-17

CENTRAL PARK IMPROVEMENTS

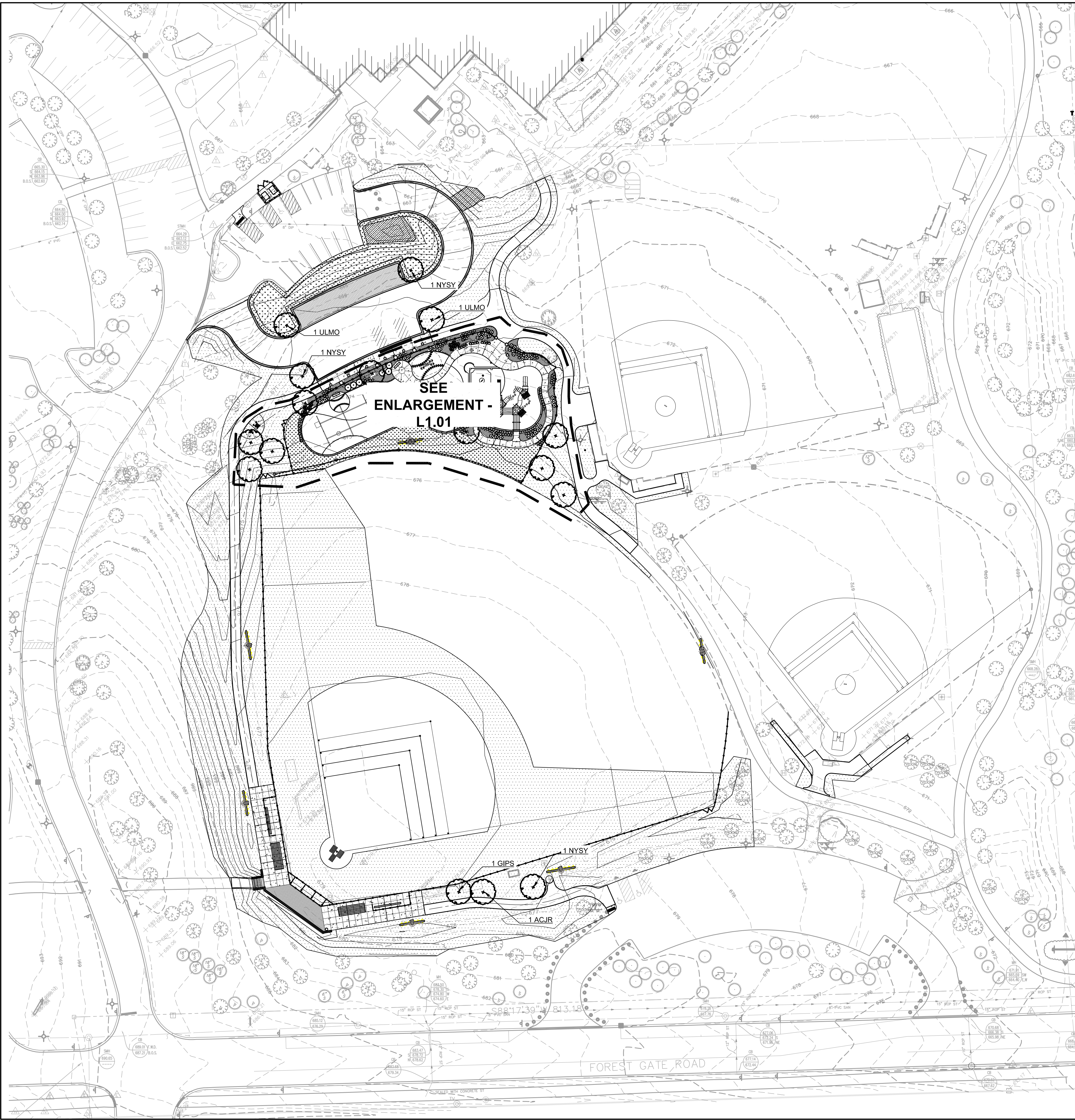
1500 FOREST GATE ROAD
OAK BROOK, IL 60523

LANDSCAPE RESTORATION KEY PLAN

Project Number:
5646-03
Drawn By:
Sheet:

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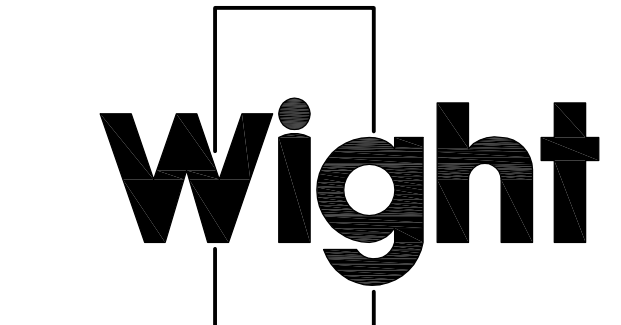
LANDSCAPE RESTORATION NOTES:

1. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 6" DEPTH), GRASS SEED MIX, AND EROSION CONTROL BLANKET.
2. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES NOT SHOWN ON THE PLANS TO BE SAVED FROM DAMAGE DUE TO HIS OPERATIONS. MINIMUM PROTECTION FOR TREES SHALL BE 4' SNOW FENCE. INSTALL ALONG THE DRIP LINE OF TREES AS SHOWN ON THE PLANS.
3. THE CONTRACTOR WILL MAKE NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN CONSENT BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR WILL SUBMIT ANY SUBSTITUTIONS IN WRITING TO THE LANDSCAPE ARCHITECT.
4. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AND AS DETAILED ON THESE DRAWINGS. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
5. PERMANENT GRASS SEEDING SHALL BE PROPERLY COVERED IMMEDIATELY AFTER SEEDING WITH NORTH AMERICAN GREEN S150BN EROSION CONTROL BLANKET TO MANUFACTURER'S SPECIFICATIONS.
6. TREES SHALL BE INSTALLED A MINIMUM OF 5' HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES.
7. TREES SHALL BE INSTALLED A MINIMUM OF 10' HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO MANHOLES, VALVE VAULTS, VALVE BOXES, AND FIRE HYDRANTS.
8. ANY AREA COMPACTED BY CONSTRUCTION TRAFFIC SHALL BE TILLED OR RESTORED TO ALLOW FOR SUITABLE PLANTING CONDITIONS.

LEGEND

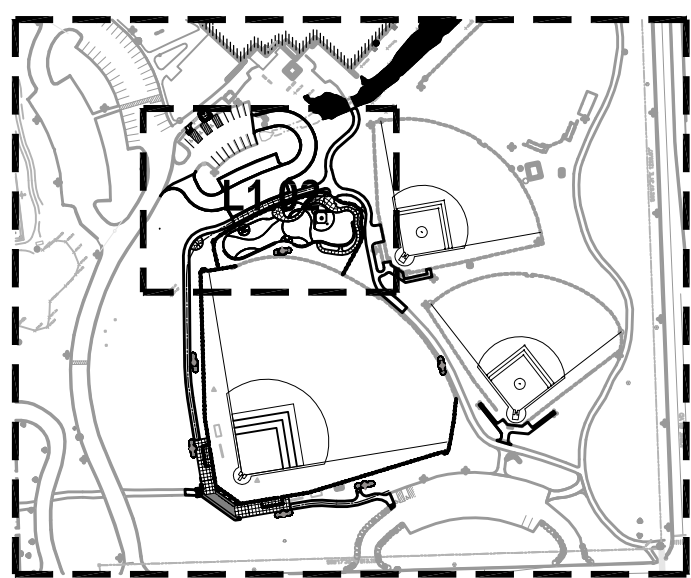
	6" TOPSOIL, TURF SEED AND EROSION CONTROL BLANKET
	6" TOPSOIL, LOW PROFILE PRAIRIE SEED MIX, AND EROSION CONTROL BLANKET
	6" TOPSOIL, LOW MOW TURF SEED MIX AND EROSION CONTROL BLANKET
	6" TOPSOIL, BIOSWALE SEED MIX AND EROSION CONTROL BLANKET

PLANT LIST - BY OWNER	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QUANTITY
SHADE TREES						
ACSA	<i>Acer saccharum</i>	Sugar Maple	2.5" CALIPER	AS SHOWN	2	
ACJR	<i>Acer x freemanii</i> 'Jeffers Red'	Autumn Blaze Freeman Maple	2.5" CALIPER	AS SHOWN	2	
GIPS	<i>Ginkgo biloba</i> 'Princeton Sentry'	Princeton Sentry Ginkgo	2.5" CALIPER	AS SHOWN	3	
NYSY	<i>Nyssa sylvatica</i>	Black Tupelo	2.5" CALIPER	AS SHOWN	3	
OSVI	<i>Ostrya virginiana</i>	Ironwood, American Hop Hornbeam	2.5" CALIPER	AS SHOWN	2	
QRUR	<i>Quercus rubra</i>	Red Oak	2.5" CALIPER	AS SHOWN	1	
ULMO	<i>Ulmus 'Morton'</i>	Accolade Elm	2.5" CALIPER	AS SHOWN	3	
SHADE TREE TOTALS						16
SHRUBS						
COIS	<i>Cornus sericea</i> 'Isanti'	Redosier Dogwood	5 GALLON	AS SHOWN	6	
ITVI	<i>Itea virginica</i> 'Sprich'	Little Henry Virginia Sweetspire	3 GALLON	AS SHOWN	20	
JUBF	<i>Juniperus sabina</i> 'Blue Forest'	Blue Forest Juniper	5 GALLON	AS SHOWN	10	
RIAL	<i>Ribes alpinum</i> 'Green Mound'	Green Mound Alpine Currant	3 GALLON	AS SHOWN	10	
SPGO	<i>Spiraea x bumalda</i> 'Goldflame'	Goldflame Spiraea	3 GALLON	AS SHOWN	13	
SHRUB TOTALS						59
ORNAMENTAL GRASS						
CAKF	<i>Calamagrostis acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 GALLON	AS SHOWN	60	
PEHA	<i>Pennisetum alopurpureoides</i> 'Hamelin'	Hamelin Dwarf Fountain Grass	1 GALLON	AS SHOWN	37	
SPHE	<i>Sporobolus heterolepis</i>	Prairie Dropseed	3 GALLON	AS SHOWN	37	
ORNAMENTAL GRASS TOTALS						134
PERENNIALS						
COLA	<i>Coreopsis lanceolata</i>	Sand Coreopsis	1 GALLON	24" O.C.	52	
ECAL	<i>Echinacea 'Alba'</i>	White Coneflower	1 GALLON	18" O.C.	25	
GAAR	<i>Gaillardia aristata</i> 'Arizona Red Shade'	Arizona Red Shade Blanket Flower	1 GALLON	18" O.C.	44	
HERR	<i>Hemerocallis 'Rosy Returns'</i>	Rosy Returns Daylily	1 GALLON	18" O.C.	73	
NEWL	<i>Nepeta x faassenii</i> 'Walker's Low'	Walker's Low Catmint	1 GALLON	24" O.C.	23	
PATR	<i>Parthenocissus tricuspidata</i>	Boston Ivy	1 GALLON	AS SHOWN	12	
RULS	<i>Rudbeckia fulgida</i> 'Vietta's Little Suzy'	Little Suzy Black-Eyed Susan	1 GALLON	24" O.C.	52	
SAEF	<i>Salvia nemorosa</i> 'East Friesland'	East Friesland Russian Sage	1 GALLON	18" O.C.	60	
PERENNIAL TOTALS						341
GROUNDCOVERS						
AJBB	<i>Ajuga reptans</i> 'Bronze Beauty'	Broze Beauty Bugleweed	10 FLAT/PT	18" O.C.	61	
SEKA	<i>Sedum kamtschaticum</i>	Russian Stonecrop	10 FLAT/PT	18" O.C.	46	
SEFU	<i>Sedum sparium</i> 'Fuldaglut'	Fulda Glow Stonecrop	24 FLAT	18" O.C.	41	
GROUNDCOVER TOTALS						148



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
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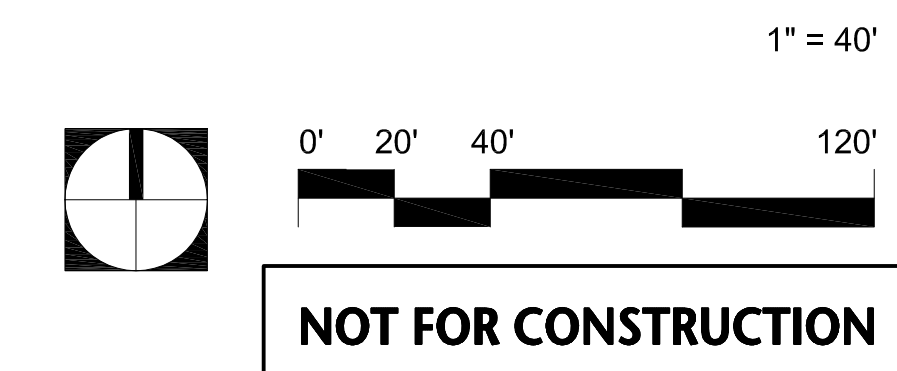
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CENTRAL PARK IMPROVEMENTS

1500 FOREST GATE ROAD
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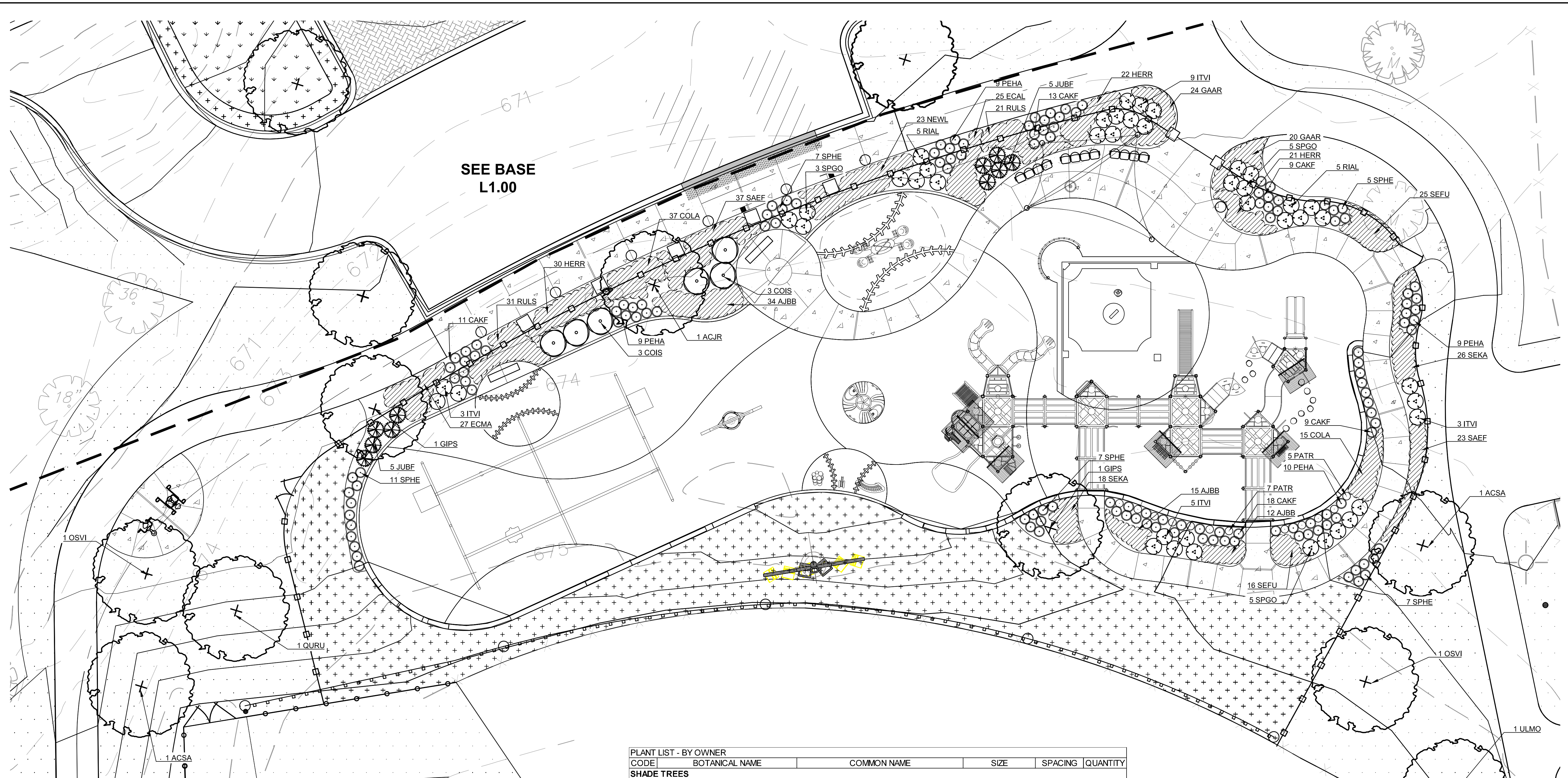
LANDSCAPE RESTORATION PLAN

Project Number:
 5646-03
 Drawn By:
 Sheet:



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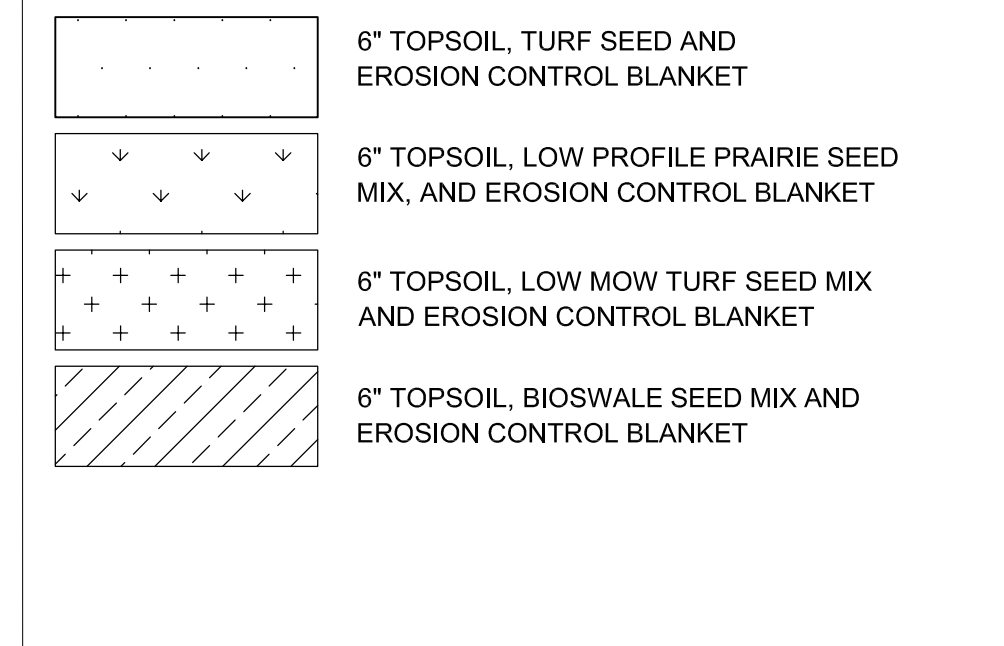


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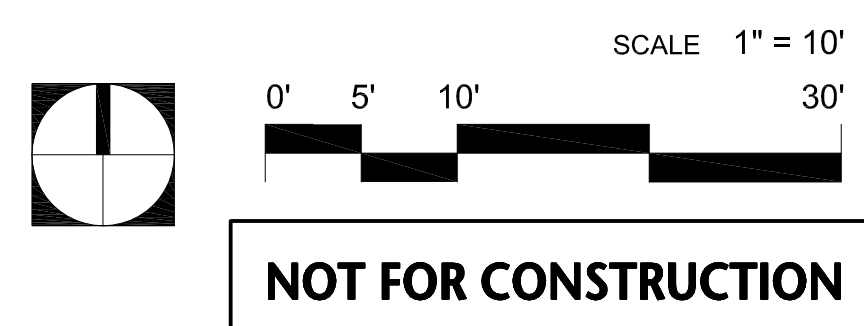
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- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 6" DEPTH), GRASS SEED MIX, AND EROSION CONTROL BLANKET.
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- THE CONTRACTOR WILL MAKE NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN CONSENT BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR WILL SUBMIT ANY SUBSTITUTIONS IN WRITING TO THE LANDSCAPE ARCHITECT.
- ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AND AS DETAILED ON THESE DRAWINGS. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
- PERMANENT GRASS SEEDING SHALL BE PROPERLY COVERED IMMEDIATELY AFTER SEEDING WITH NORTH AMERICAN GREEN S150BN EROSION CONTROL BLANKET TO MANUFACTURER'S SPECIFICATIONS.
- TREES SHALL BE INSTALLED A MINIMUM OF 5' HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES.
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LEGEND

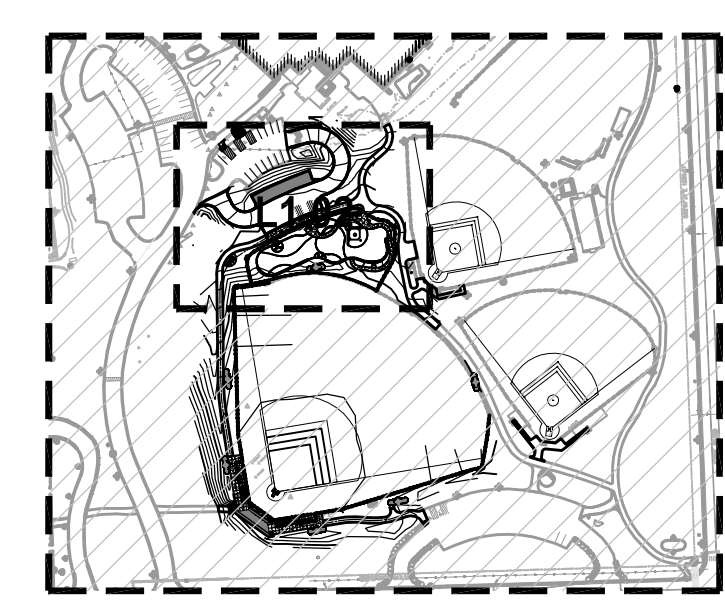


PLANT LIST - BY OWNER	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QUANTITY
SHADE TREES						
ACSA	<i>Acer saccharum</i>	Sugar Maple	2.5" CALIPER	AS SHOWN	2	
ACJR	<i>Acer x freemanii</i> 'Jeffers Red'	Autumn Blaze Freeman Maple	2.5" CALIPER	AS SHOWN	2	
GIPS	<i>Ginkgo biloba</i> 'Princeton Sentry'	Princeton Sentry Ginkgo	2.5" CALIPER	AS SHOWN	3	
NYSY	<i>Nyssa sylvatica</i>	Black Tupelo	2.5" CALIPER	AS SHOWN	3	
OSVI	<i>Ostrya virginiana</i>	Ironwood, American Hop Hornbeam	2.5" CALIPER	AS SHOWN	2	
QURU	<i>Quercus rubra</i>	Red Oak	2.5" CALIPER	AS SHOWN	1	
ULMO	<i>Ulmus</i> 'Morton'	Accolade Elm	2.5" CALIPER	AS SHOWN	3	
SHADE TREE TOTALS						
SHRUBS						
COIS	<i>Cornus sericea</i> 'Isanti'	Redosier Dogwood	5 GALLON	AS SHOWN	6	
ITVI	<i>Itea virginica</i> 'Sprich'	Little Henry Virginia Sweetpire	3 GALLON	AS SHOWN	20	
JUBF	<i>Juniperus sabina</i> 'Blue Forest'	Blue Forest Juniper	5 GALLON	AS SHOWN	10	
RIAL	<i>Ribes alpinum</i> 'Green Mound'	Green Mound Alpine Currant	3 GALLON	AS SHOWN	10	
SPGO	<i>Spiraea x bumalda</i> 'Goldflame'	Goldflame Spiraea	3 GALLON	AS SHOWN	13	
SHRUB TOTALS						
ORNAMENTAL GRASS						
CAKF	<i>Calamagrostis acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 GALLON	AS SHOWN	60	
PEHA	<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Dwarf Fountain Grass	1 GALLON	AS SHOWN	37	
SPHE	<i>Sporobolus heterolepis</i>	Prairie Dropseed	3 GALLON	AS SHOWN	37	
ORNAMENTAL GRASS TOTALS						
PERENNIALS						
COLA	<i>Coreopsis lanceolata</i>	Sand Coreopsis	1 GALLON	24" O.C.	52	
ECAL	<i>Echinacea</i> 'Alba'	White Coneflower	1 GALLON	18" O.C.	25	
GAAR	<i>Gaillardia aristata</i> 'Arizona Red Shade'	Arizona Red Shade Blanket Flower	1 GALLON	18" O.C.	44	
HERR	<i>Hemerocallis</i> 'Rosy Returns'	Rosy Returns Daylily	1 GALLON	18" O.C.	73	
NEWL	<i>Nepeta x faassenii</i> 'Walker's Low'	Walker'S Low Catmint	1 GALLON	24" O.C.	23	
PATR	<i>Parthenocissus tricuspidata</i>	Boston Ivy	1 GALLON	AS SHOWN	12	
RULS	<i>Rudbeckia fulgida</i> 'Viette's Little Suzy'	Little Suzy Black-Eyed Susan	1 GALLON	24" O.C.	52	
SAEF	<i>Salvia nemorosa</i> 'East Friesland'	East Friesland Russian Sage	1 GALLON	18" O.C.	60	
PERENNIAL TOTALS						
GROUNDCOVERS						
AJBB	<i>Ajuga reptans</i> 'Bronze Beauty'	Broze Beauty Bugleweed	10 FLAT/ PT	18" O.C.	61	
SEKA	<i>Sedum kamtschaticum</i>	Russian Stonecrop	10 FLAT/ PT	18" O.C.	46	
SEFU	<i>Sedum spurium</i> 'Fuldaglut'	Fulda Glow Stonecrop	24 FLAT	18" O.C.	41	
GROUNDCOVER TOTALS						



Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

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CENTRAL PARK IMPROVEMENTS

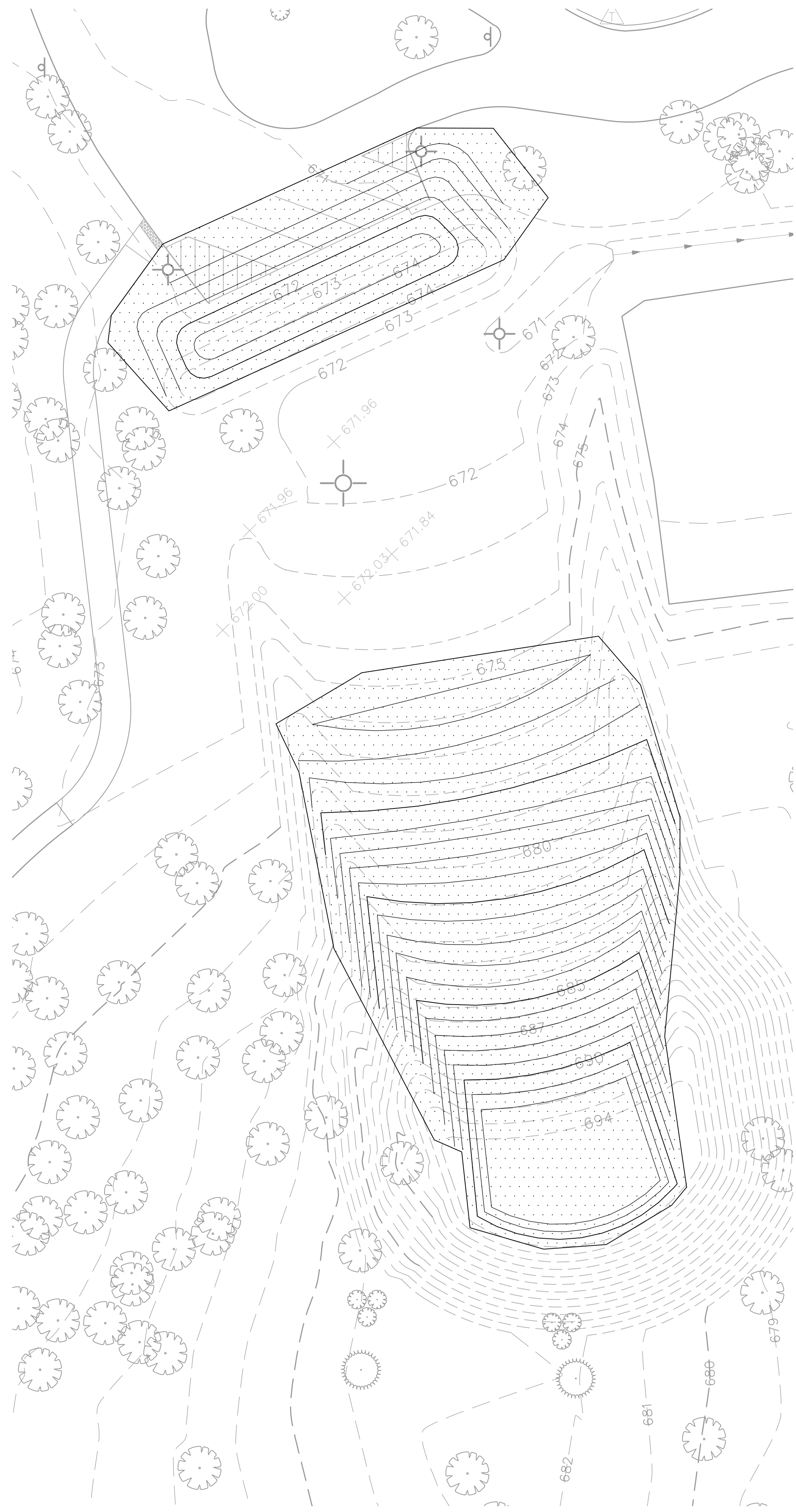
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LANDSCAPE RESTORATION PLAN

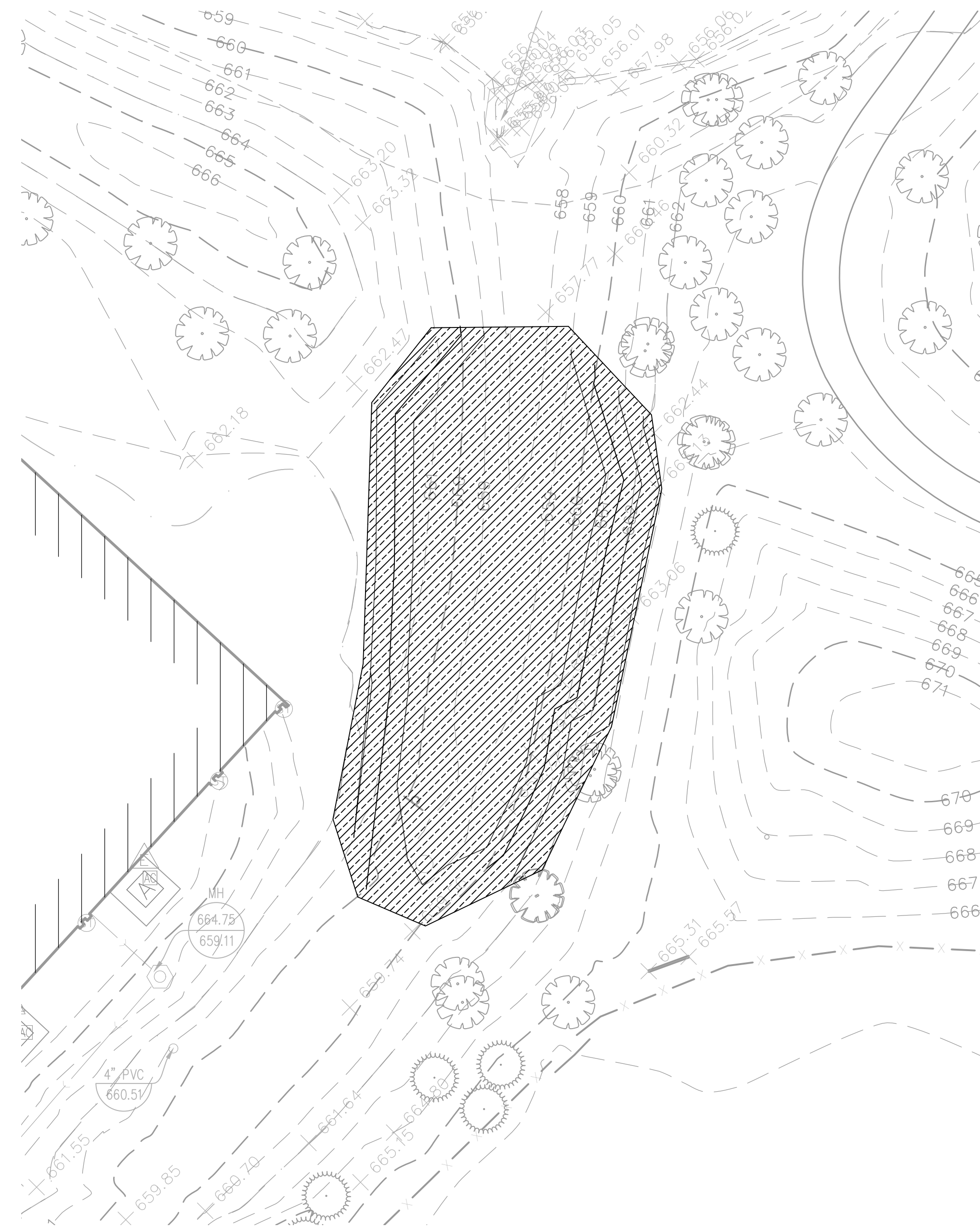
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1 SLED HILL RESTORATION



2 COMPENSATORY STORAGE RESTORATION

LANDSCAPE RESTORATION NOTES:

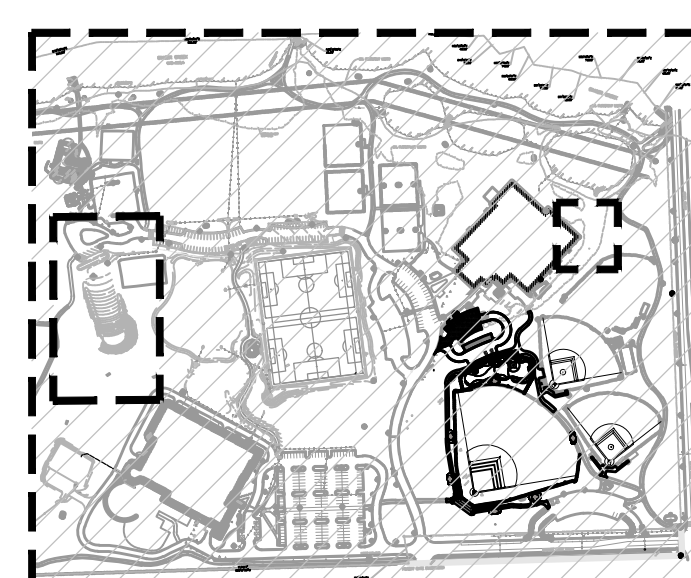
1. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 6" DEPTH), GRASS SEED MIX, AND EROSION CONTROL BLANKET.
2. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES NOT SHOWN ON THE PLANS TO BE SAVED FROM DAMAGE DUE TO HIS OPERATIONS. MINIMUM PROTECTION FOR TREES SHALL BE 4' SNOW FENCE. INSTALL ALONG THE DRIP LINE OF TREES AS SHOWN ON THE PLANS.
3. THE CONTRACTOR WILL MAKE NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN CONSENT BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR WILL SUBMIT ANY SUBSTITUTIONS IN WRITING TO THE LANDSCAPE ARCHITECT.
4. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AND AS DETAILED ON THESE DRAWINGS. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
5. PERMANENT GRASS SEEDING SHALL BE PROPERLY COVERED IMMEDIATELY AFTER SEEDING WITH NORTH AMERICAN GREEN S150BN EROSION CONTROL BLANKET TO MANUFACTURER'S SPECIFICATIONS.
6. TREES SHALL BE INSTALLED A MINIMUM OF 5' HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES.
7. TREES SHALL BE INSTALLED A MINIMUM OF 10' HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO MANHOLES, VALVE VAULTS, VALVE BOXES, AND FIRE HYDRANTS.
8. ANY AREA COMPACTED BY CONSTRUCTION TRAFFIC SHALL BE TILLED OR RESTORED TO ALLOW FOR SUITABLE PLANTING CONDITIONS.

LEGEND

	6" TOPSOIL, TURF SEED AND EROSION CONTROL BLANKET
	6" TOPSOIL, LOW PROFILE PRAIRIE SEED MIX, AND EROSION CONTROL BLANKET
	6" TOPSOIL, LOW MOW TURF SEED MIX AND EROSION CONTROL BLANKET
	6" TOPSOIL, LOW PROFILE BIOSWALE SEED MIX AND EROSION CONTROL BLANKET

Wight
 Wight & Company
 wightco.com
 2500 North Frontage Road
 Darien, IL 60561
 P 630.969.7000
 F 630.969.7979

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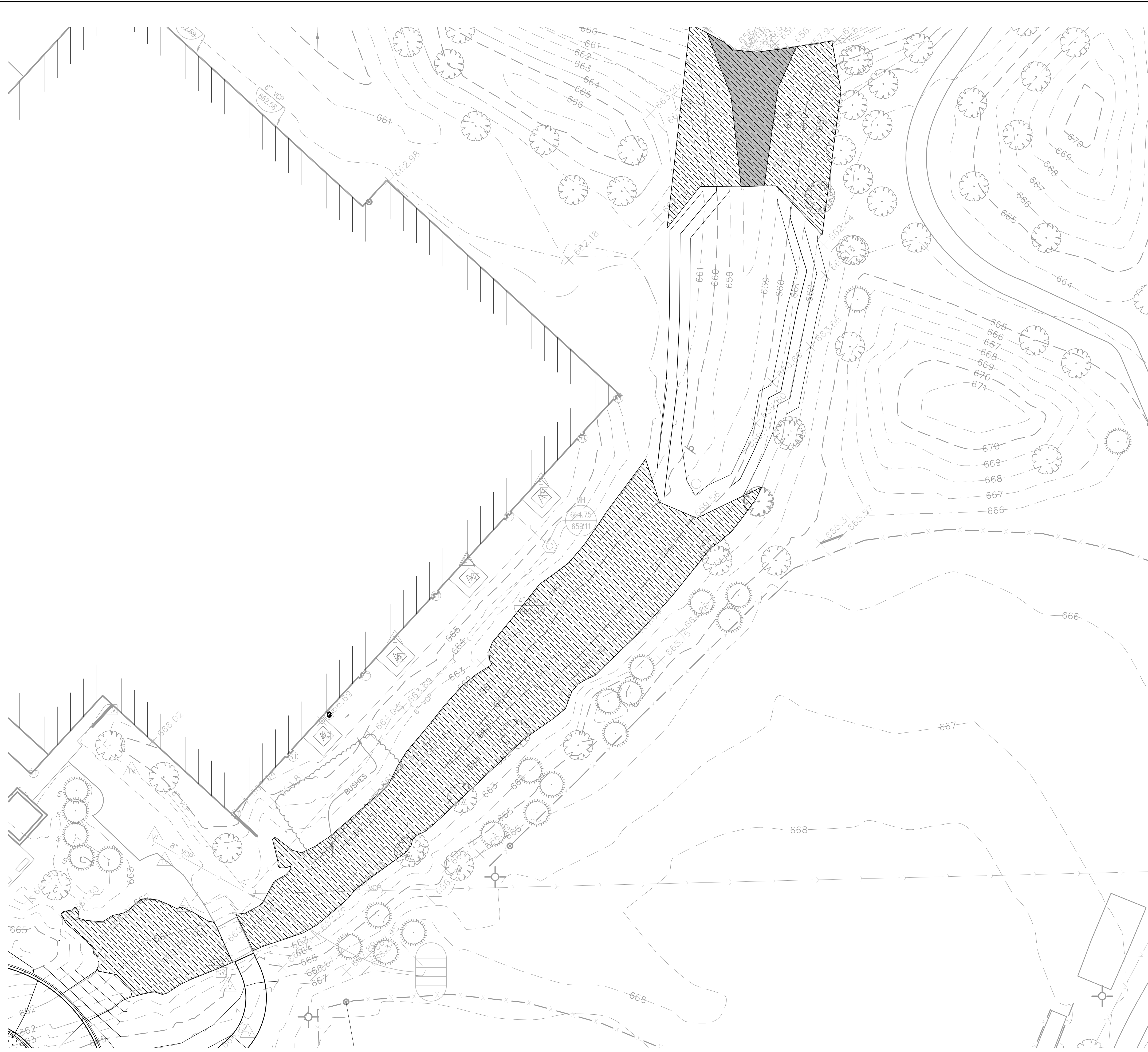
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1" = 20'

NOT FOR CONSTRUCTION

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LANDSCAPE RESTORATION NOTES:

1. ALTERNATE #3: REMOVE EXISTING TURF WITH A SOD REMOVER. FINE GRADE EXISTING TOPSOIL. PLACE SEED ACCORDING TO MANUFACTURER'S APPLICATION RATE AND COVER WITH EROSION CONTROL BLANKET. INSTALL PLUGS IN DESIGNATED AREA THROUGH EROSION CONTROL BLANKET.
2. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 6" DEPTH), GRASS SEED MIX, AND EROSION CONTROL BLANKET.
3. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES NOT SHOWN ON THE PLANS TO BE SAVED FROM DAMAGE DUE TO HIS OPERATIONS. MINIMUM PROTECTION FOR TREES SHALL BE 4' SNOW FENCE. INSTALL ALONG THE DRIP LINE OF TREES AS SHOWN ON THE PLANS.
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LEGEND

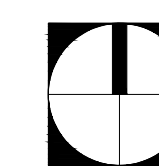
	LOW PROFILE BIOSWALE SEED MIX AND NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET
	LOW PROFILE BIOSWALE SEED MIX AND NORTH AMERICAN GREEN C125BN EROSION CONTROL BLANKET WITH PLUG ENHANCEMENT

PLUG LIST

1. PLUGS TO BE PLANTED 24" O.C. AND INTERMIXED.

BOTANICAL NAME	COMMON NAME	QUANTITY
ASCLEPIAS PURPURASCENS	PURPLE MILKWEED	38/ 1 FLAT
ELEOCHARIS ACICULARIS	NEEDLE SPIKE RUSH	38/ 1 FLAT
IRIS VIRGINICA	BLUE FLAG IRIS	38/ 1 FLAT
SAGITTARIA LATIFOLIA	COMMON ARROWHEAD	38/ 1 FLAT
LYCOPUS AMERICANUS	AMERICAN BUGLEWEED	38/ 1 FLAT
CAREX CRISTATELLA	CRESTED SEDGE	38/ 1 FLAT

1 ALTERNATE #3: BIOSWALE RESTORATION



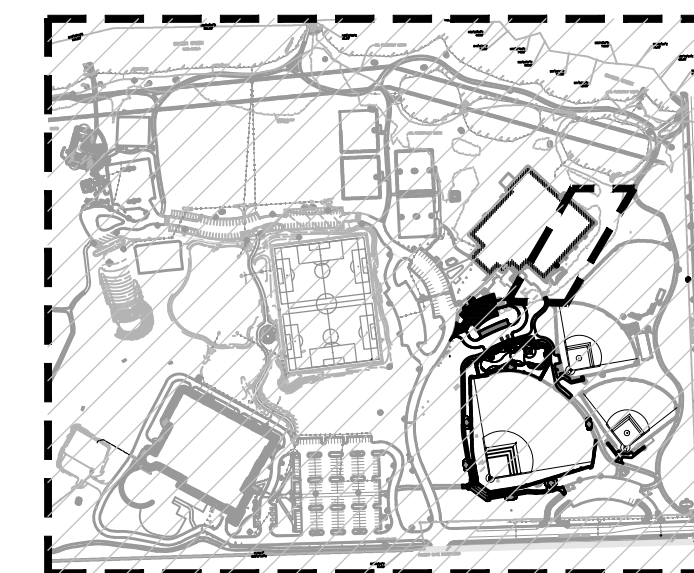
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ALTERNATE #3 LANDSCAPE RESTORATION PLAN

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