OAK BROOK PARK DISTRICT
CENTRAL PARK NORTH - PHASE 1

1315 KENSINGTON ROAD
OAK BROOK, IL 60523

ISSUED FOR BID

PROJECT TEAM

CLIENT:
OAK BROOK PARK DISTRICT
1450 FOREST GATE ROAD
OAK BROOK, IL 60523
PHONE: (630)645-9540
CONTACT: BOB JOHNSON, DIRECTOR OF PARKS AND PLANNING

LANDSCAPE ARCHITECT:
WIGHT & COMPANY
2500 NORTH FRONTAGE ROAD
DARIEN, IL 60561
PHONE: (630)969-7000
FAX: (630)969-7979
CONTACT: PATTY KING
Design Firm Registration #184-000451

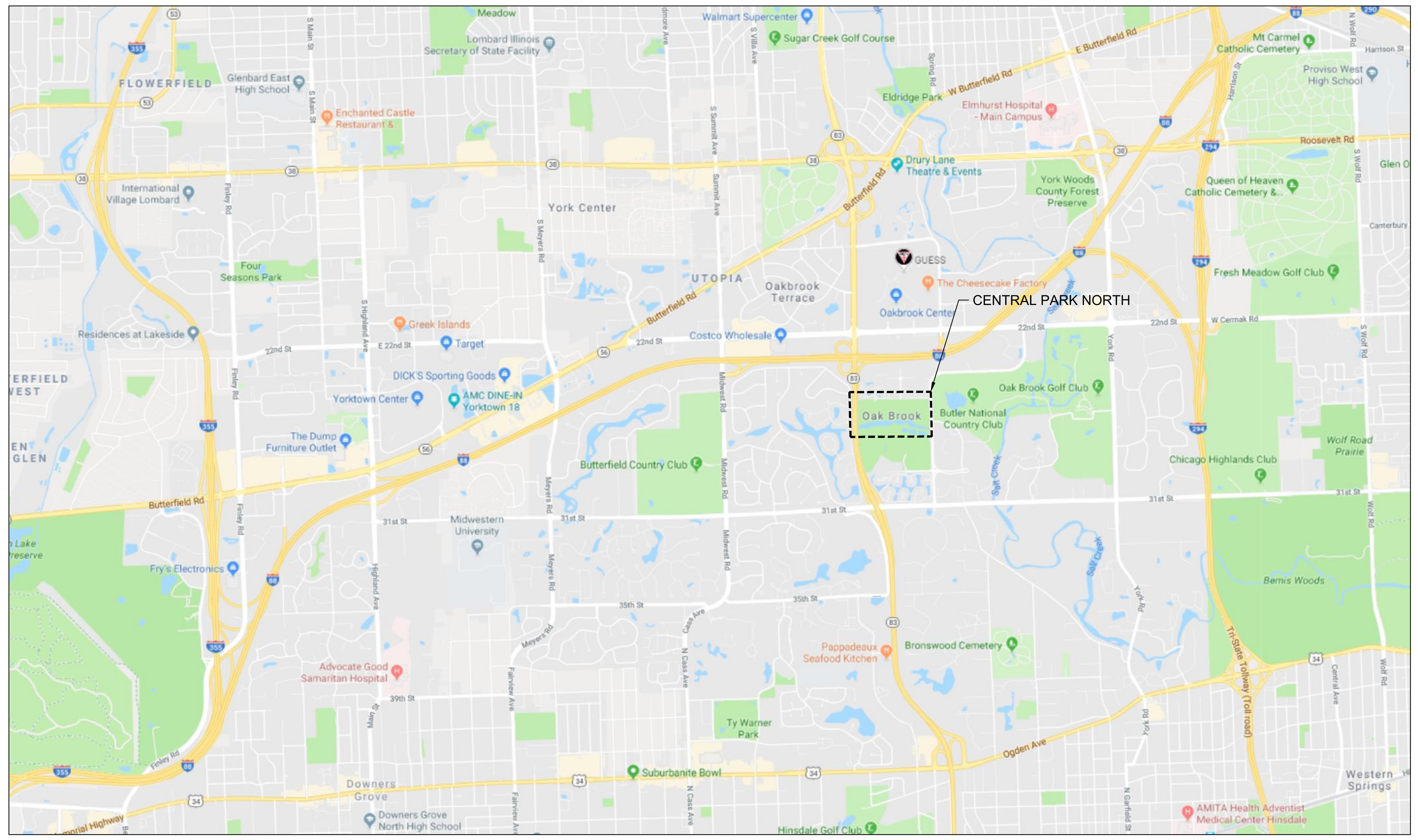
REGISTERED LANDSCAPE ARCHITECT
PATRICIA L. KING
157-001017
STATE OF ILLINOIS

MEP ENGINEER:
WIGHT & COMPANY
2500 NORTH FRONTAGE ROAD
DARIEN, IL 60561
PHONE: (630)969-7000
FAX: (630)969-7979
CONTACT: REMZI TENDAG
Design Firm Registration #184-000451

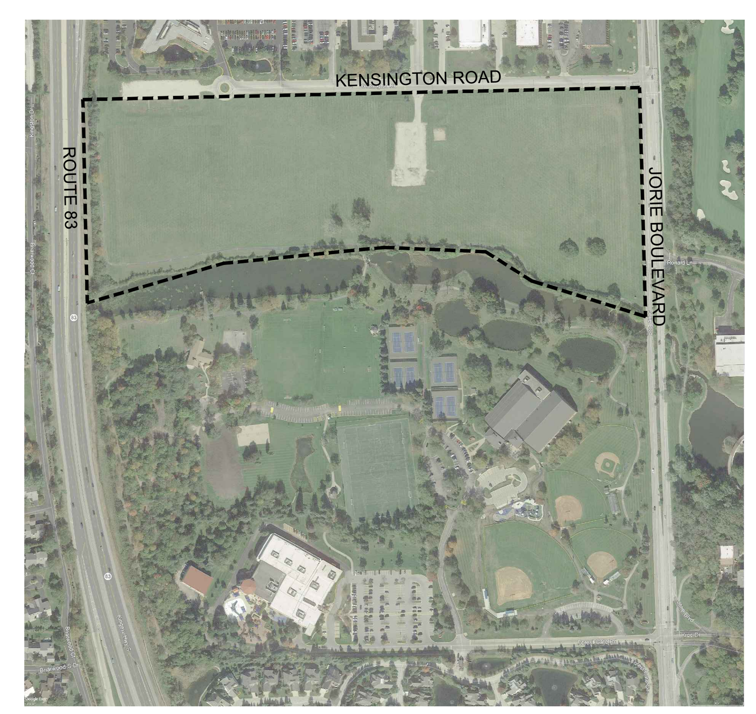
CIVIL ENGINEER:
WBK ENGINEERING
8 EAST GALENA BOULEVARD, SUITE 402
AURORA, IL 60506
PHONE: (630)701-2245
CONTACT: SCOTT F. RANDALL, PE, CFM
Design Firm Registration #184-007317-0006

IRRIGATION CONSULTANT:
FRS DESIGN GROUP, LLC
167 S. LEXINGTON STREET
P.O. BOX 748
SPRING GREEN, WI 53588
PHONE: (608)588.7888
CONTACT: DAN FEICK, RLA, ASLA
WI Registration #43

GENERAL CONTRACTOR (EMERGENCY CONTACT):
TBD



LOCATION MAP



BENCHMARKS

ELEVATION REFERENCE MARKS

RM1 - DK3165 - GPS MONUMENT IS LOCATED AT THE NORTHWEST INTERSECTION OF ILLINOIS ROUTE 83 AND OAK BROOK ROAD(31st STREET.
ELEVATION = 715.56 (NAVD 88)

RM2 - DK3132 - DISC IN SOUTHEAST CORNER OF THE CONCRETE HEADWALL ON THE BRIDGE FOR ILLINOIS 83 OVER INTERSTATE 88.
ELEVATION = 703.74 (NAVD88)

PROJECT ELEVATION REFERENCE MARKS

CP 100 - SET CROSS IN TOP OF CURB ALONG SOUTH SIDE OF KENSINGTON ROAD AT THE GRAVEL PARKING LOT ENTRANCE AS SHOWN HEREON.
N:1884931.009 E:1087983.164 ELEVATION: 666.54

CP 110 - SET CROSS IN THE CONCRETE CORNER AT THE SOUTHWEST CORNER OF THE INTERSECTION OF JORIE BOULEVARD AND KENSINGTON ROAD AS SHOWN HEREON.
N: 1884940.678 E: 1088877.981 ELEVATION: 670.70

INDEX OF DRAWINGS

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

JULIE SUBURBS & DIGG CHICAGO

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

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION.

DATED AT DARIEN, ILLINOIS,

THIS _____ DAY OF_____________, 2020

NOTES

ANY DEVIATION FROM THE APPROVED PLAN SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE VILLAGE OF OAK BROOK.

INSPECTIONS - CONTACT THE VILLAGE OF OAK BROOK DEPARTMENT OF DEVELOPMENT SERVICES AT 630-368-5144 TO SCHEDULE THE FOLLOWING REQUIRED ENGINEERING INSPECTIONS:
1. SWPPP/EROSION CONTROL INSPECTION
2. DETENTION BASIN INSPECTION
3. PCBMP INSPECTION
4. WATER SERVICE INSPECTION
5. PERMEABLE PAVERS INSPECTION
6. ROUGH/FINAL GRADING INSPECTION
7. FINAL ENGINEERING INSPECTION

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/18/2020
1	Revised for Village comments	02/21/2020
	ISSUED FOR PERMITS	02/04/20
	ISSUED FOR PERMITS	11/08/19

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

COVER SHEET

Project Number: 190083
Drawn By: RA
Sheet:
L0.00

S:\Darien\Oak Brook Park District\190083 Autumn Oaks-Central Park\01\11 Drawings\02 CD\190083_L0.00 COVER SHEET.dwg rolexander Mar 16, 2020 2:42:51 pm

GENERAL

1. EXISTING SITE TOPOGRAPHY, UTILITIES, AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE FIELD MEASURED BY CEMCON, DATED 7/12/2018. UNDERGROUND UTILITY LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. TRADE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS, INVERTS, RIMS, PIPE SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. ELEVATIONS ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM NAVD 88 DATUM.
3. THE TRADE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL ABIDE BY THE REQUIREMENTS OF ALL APPLICABLE PERMITS.
4. ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT ARE HEREIN INCORPORATED BY REFERENCE.
5. NO BURNING OR INCINERATION OF RUBBISH IS PERMITTED ON THE SITE.
6. STREET AND DRIVEWAY PAVEMENT SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED PER THE REQUIREMENTS. MATERIALS AND WORKMANSHIP OF REPAIRS SHALL CONFORM TO THE "IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (LATEST EDITION), THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)", HEREIN AFTER REFERRED TO AS 'STANDARD SPECIFICATIONS' AND THE VILLAGE OF OAK BROOK REQUIREMENTS.
7. THE "DEVELOPMENT REGULATIONS", LATEST EDITION, AS ADOPTED BY THE VILLAGE OF OAK BROOK, ILLINOIS, HEREIN AFTER REFERRED TO AS THE "DEVELOPMENT REGULATIONS", INCLUDING ALL CITY STANDARD DETAILS AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION)" PREPARED BY ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), HEREIN AFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"; AND ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ILLINOIS URBAN MANUAL, LATEST EDITION, AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", HEREIN AFTER REFERRED TO AS "ISPE STANDARDS" SHALL GOVERN THE CONSTRUCTION OF THESE IMPROVEMENTS EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
8. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS OF THE VILLAGE OF OAK BROOK, ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, HEREIN AFTER REFERRED TO AS ISPE STANDARDS.
9. ALL FACILITIES OR LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY THE RESPONSIBLE TRADE CONTRACTOR.
10. PROPOSED ELEVATIONS INDICATE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, ALLOW FOR THICKNESS OF PROPOSED PAVING OR TOPSOIL THICKNESS.
11. THE TRADE CONTRACTOR SHALL NOTIFY THE VILLAGE OF OAK BROOK, ILLINOIS 48 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
12. SHOULD THE TRADE CONTRACTOR ENCOUNTER FIELD DRAINAGE TILE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT AND THE VILLAGE OF OAK BROOK FOR INSTRUCTIONS. SHOULD THE ENGINEER OR VILLAGE OF OAK BROOK 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.
13. ALL TRENCHES SHOULD FOLLOW THE VILLAGE OF OAK BROOK STANDARD DETAILS INCLUDED IN THE DETAILS. TRENCHES ARE TO BE BACKFILLED WITH TRENCH BACKFILL AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS REQUIRED BY THE VILLAGE OF OAK BROOK AND THE ISPE STANDARDS.
14. TRADE CONTRACTOR IS RESPONSIBLE FOR CALLING J.U.L.I.E. AT 1-800-892-0123 OR 811 AND NOTIFYING THE CONSTRUCTION MANAGER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS THROUGHOUT CONSTRUCTION.
15. ALL DIMENSIONS, CURB RADII AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB IS SHOWN. COORDINATES ARE TO BACK OF CURB, CENTER OF STRUCTURES OR AS SHOWN.
16. WHERE PAVEMENT, CURB OR SIDEWALK REMOVAL IS REQUIRED, THE TRADE CONTRACTOR SHALL SAW CUT THE BOUNDARIES OF THE AREA TO BE REMOVED PRIOR TO DEMOLITION.
17. TRADE CONTRACTOR IS RESPONSIBLE FOR LAYOUT, LINE AND GRADE FOR ITEMS INCLUDED IN THE CONTRACT SCOPE OF WORK. CONTRACTOR TO USE CAD FILES AS PROVIDED BY THE LANDSCAPE ARCHITECT OR ENGINEER FOR GEOMETRIC LAYOUT.
18. TRADE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC STREET CLEAN OF DEBRIS.
19. "BAND SEAL" JOINTS WITH STAINLESS STEEL STRAPS AND BOLTS SHALL BE USED WHEN CONNECTING DISSIMILAR MATERIALS.
20. 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.
21. 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.
22. 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: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP 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 DETENTION/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.
23. 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 APPROVED BY THE VILLAGE OF OAK BROOK, ILLINOIS.

VILLAGE CONTACT INFORMATION:

VILLAGE CONTACT:
Mr. TONY BUDZIKOWSKI
DIRECTOR OF DEVELOPMENT SERVICES
1200 OAK BROOK ROAD
OAK BROOK, IL 60523-2255
PHONE: (630) 368-5104
FAX: (630) 368-5105
EMAIL: TBUDZIKOWSKI@OAK-BROOK.ORG

VILLAGE CONTACT:
Mr. JAMES L. PATTERSON, PE
CIVIL ENGINEER
1200 OAK BROOK ROAD
OAK BROOK, IL 60523
PHONE: (630) -368-5144
FAX: (630) 368-5145
EMAIL: JPATTERSON@OAK-BROOK.ORG

OWNER INFORMATION & EMPLOYEE TRAINING:

THE PEOPLE REPRESENTED BELOW ARE INVOLVED WITH AND RESPONSIBLE FOR THE OPERATIONS AND MAINTENANCE (O&M) OF THE STORMWATER DETENTION, LANDSCAPE PLANTINGS AND IRRIGATION FACILITIES AS OUTLINED HEREIN.

1. PROPERTY OWNER LISTED BELOW SHALL BE RESPONSIBLE FOR OVERSEEING AND ENSURING PROPERTY O&M IS CARRIED OUT AND PERFORMED AS DOCUMENTED HEREIN.

   OAK BROOK PARK DISTRICT

2. THE HEAD OF FACILITIES LISTED BELOW SHALL BE RESPONSIBLE FOR PERFORMING THE O&M DOCUMENTED HEREIN. HE/SHE SHALL ASSIGN RESPONSIBILITY FOR O&M OF ALL ONSITE BMPS (BEST MANAGEMENT PRACTICES) AND IRRIGATION FACILITIES AND SHALL CONDUCT TRAINING SO THAT THESE INDIVIDUALS ARE AWARE OF PROPER INSPECTION AND O&M. TRAINING SHALL OCCUR WITHIN ONE MONTH OF CONSTRUCTION COMPLETION AND/OR BUILDING OCCUPANCY IN ORDER TO MAKE ALL PERSONNEL FAMILIAR WITH THE COMPONENTS OF THE O&M PLAN AND THEIR PERSONAL LEVEL OF RESPONSIBILITY.

   OAK BROOK PARK DISTRICT

O&M PRACTICES AND IMPLEMENTATION SCHEDULE:

THE VILLAGE REQUIRES THAT PROPERTY OWNERS KEEP AN O&M INSPECTION AND MAINTENANCE LOGBOOK. IN GENERAL, THE LOGBOOK SHOULD NOTE ALL INSPECTION DATES, FACILITY COMPONENTS INSPECTED, AND ANY MAINTENANCE PERFORMED AND REPAIRS MADE. ALL INSPECTIONS AND MAINTENANCE, BOTH ROUTINE AND EMERGENCY, SHOULD BE RECORDED IN THE LOGBOOK. EACH BMP-SPECIFIC O&M SHEET SHOULD SERVE AS A CHECKLIST FOR DESIGN ELEMENTS THAT REQUIRE INSPECTION, THE FREQUENCY OF INSPECTIONS AND CONDITIONS THAT INDICATE MAINTENANCE IS NEEDED. LOG BOOKS MUST BE PRODUCED UPON THE REQUEST OF A VILLAGE INSPECTOR.

EACH BMP WILL REQUIRE A SPECIFIC INSPECTION AND MAINTENANCE REGIMEN. IN ADDITION, THE MINIMUM REQUIREMENTS BELOW SHALL BE INCORPORATED INTO THE INSPECTION AND MAINTENANCE REGIMEN.

* O&M PLAN PROCEDURES AND PRACTICES MUST BE REVIEWED AND ASSESSED ANNUALLY.
* ACCESS ROUTES INCLUDING ROADWAYS AND SIDEWALKS SHALL BE INSPECTED ANNUALLY AND MAINTAINED AS NEEDED.
* DRAINAGE STRUCTURES MUST BE INSPECTED AND CLEANED SEMI-ANNUALLY
* BMPs SHALL BE INSPECTED SEMI-ANNUALLY AND AFTER SIGNIFICANT RAINFALL EVENTS.
* THE OWNER SHALL KEEP AN UPDATED LOG BOOK DOCUMENTING THE PERFORMANCE OF THE REQUIRED O&M ACTIVITIES FOR PERPETUITY. LOG BOOKS MUST BE PRODUCED UPON THE REQUEST OF A CITY INSPECTOR.
* VEGETATION SHALL BE MAINTAINED ON A REGULAR BASIS.
* PEST CONTROL MEASURES SHALL BE IMPLEMENTED TO ADDRESS INSECTS AND RODENTS.
* SIGNAGE AND FENCING SHALL BE INSTALLED AND MAINTAINED WHERE NECESSARY TO PROTECT PROPERTY AND THE PUBLIC.

PEST CONTROL

1. ALL TRASH SHALL BE KEPT IN A WELL MAINTAINED DUMPSTER/TRASH ENCLOSURE AREA ON SITE AS LOCATED ON THE SITE PLAN. TRASH AREAS SHALL HAVE SECURE LIDS ON THE DUMPSTERS/BINS.
2. TRASH ENCLOSURES SHALL HAVE SCREENS OR WALLS TO MINIMIZE THE TRANSPORT OF TRASH AND LITTER BY WIND OR WATER.
3. RUNOFF WATER FROM ADJOINING PAVEMENT WILL BE DIRECTED AROUND TRASH AREAS TO AVOID FLOW THROUGH.
4. YEARLY MAINTENANCE INSPECTION OF TRASH ENCLOSURE AREAS SHALL BE CONDUCTED TO ENSURE OPERATION IS IN WORKING ORDER.
5. YEARLY MAINTENANCE OF INSPECTION OF SITE SHALL BE CONDUCTED TO DETERMINE PROBLEM AREAS OF PONDING IN THE PARKING LOT AND LANDSCAPE AREAS TO PREVENT MOSQUITO BREEDING GROUNDS. AREAS SHALL BE FILLED/REPAIRED AS NECESSARY TO ALLOW DRAINAGE OF AREAS WITHIN 72 HOURS.

ACCESS ROUTES

REGULAR SWEEPING AND REMOVAL OF DEBRIS. VEHICLE PARKING LOT WILL BE SWEPT ON A REGULAR BASIS. SEDIMENT AND DEBRIS (LITTER, LEAVES, PAPERS, CANS, TRASH ETC.) WITHIN THE AREA, ESPECIALLY AROUND DRAINAGE INLETS WILL BE COLLECTED AND REMOVED. THE FREQUENCY OF SWEEPINGS WILL BE BASED ON THE AMOUNT OF SEDIMENT AND DEBRIS GENERATED, AT A MINIMUM OF ONCE PER QUARTER.

DRAINAGE STRUCTURES

1. AS NEEDED/ONGOING
   - 1.1. KEEP ADJACENT LANDSCAPED AREAS WELL-MAINTAINED TO PREVENT SOIL FROM BEING TRANSPORTED AND DEPOSITED INTO THE DRAINAGE STRUCTURE.
   - 1.2. MONITOR REGULARLY TO ENSURE THAT THE SURFACE DRAINS PROPERLY. RE-GRADE AREAS WHERE PONDING OCCURS IN ORDER TO PROVIDE POSITIVE PITCH TOWARDS THE STRUCTURE.
1. TWICE PER YEAR
   - 1.1. CLEAN OUT CATCH BASINS, MANHOLES, AND STORM SEWER STRUCTURES OUT OF DEBRIS THAT PROHIBIT WATER FROM PASSING THROUGH THE PIPING AND STORM WATER RESTRICTORS.
   - 1.2. INSPECT INLET AND OUTLET PIPES AT ALL STRUCTURES FOR CLOGGING. REMOVE DEBRIS AND SEDIMENT AS ENCOUNTERED.
   - 1.3. INSPECT STRUCTURES FOR DAMAGE AND SETTLEMENT.

BIO-SWALES / GRASS FILTER SWALES

PROPERLY DESIGNED AND INSTALLED BIO-SWALES / GRASS FILTER SWALES SYSTEMS REQUIRE LITTLE MAINTENANCE. DURING PERIODS OF EXTENDED DROUGHT, BIO-SWALES / GRASS FILTER SYSTEMS MAY REQUIRE WATER APPROXIMATELY EVERY 10 DAYS.

AS NEEDED:
- WATER DURING FIRST GROWING SEASON
- WATER DURING DRY PERIODS AFTER FIRST GROWING SEASON
- KEEP OVERFLOW FREE AND CLEAR OF LEAVES

MONTHLY:
- INSPECT SOIL AND REPAIR ERODED AREAS
- REMOVE LITTER AND DEBRIS
- CLEAR LEAVES AND DEBRIS FROM OVERFLOW

TWICE PER YEAR:
- INSPECT NATURAL PLANTINGS AND GRASS AREAS TO EVALUATE HEALTH.

ONCE PER YEAR:
- INSPECT FACILITY AND PRETREATEMENT AREAS FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC.

1. LONG TERM MAINTENANCE SHOULD CONSIST OF REGULAR EVALUATION, VEGETATION MANAGEMENT, AND PERIODIC WEED CONTROL.
2. REGULAR EVALUATION WILL AID IN THE IDENTIFICATION OF UNDESIRABLE WEEDS. EVALUATION SHOULD BE DONE TWICE PER YEAR AT THE BEGINNING AND END OF THE GROWING SEASON. WEEDS MAY BE CONTROLLED BY MEANS OF MECHANICAL, CHEMICAL, OR BIOLOGICAL TREATMENT. CHEMICAL CONTROL SHOULD BE SELECTIVELY APPLIED, E.G. WICK APPLICATION, NOT SPRAYING.
3. VEGETATION MANAGEMENT INCLUDES ANNUAL MOWING IN EARLY SPRING OR FALL. CUTTINGS SHOULD BE FINELY GROUND AND DISTRIBUTED WITHOUT CLUMPING.

PERMEABLE PAVER AREAS

1. INSPECTION OF THE SITE SHOULD OCCUR MONTHLY FOR THE FIRST 6 MONTHS AFTER CONSTRUCTION. THEN CAN OCCUR ON AN ANNUAL BASIS, PREFERABLY AFTER RAIN EVENTS WHEN VISUAL INSPECTION OF POSSIBLE CLOGGING CAN BE OBSERVED. FOLLOW ALL MANUFACTURER'S SPECIFIC RECOMMENDATIONS.
2. CONVENTIONAL STREET SWEEPERS EQUIPPED WITH VACUUMS, WATER, AND BRUSHES SHALL BE USED TO RESTORE PERMEABILITY. VACUUM SWEEPING SHALL OCCUR BIANNUAL (2 TIMES PER YEAR). REMOVED MATERIAL SHALL BE DISPOSED OF PROPERLY. FOLLOW STREET SWEEPING WITH HIGH PRESSURE HOSING OF THE SURFACE PORES. AS NECESSARY ADD ADDITIONAL AGGREGATE FILL MATERIAL AS SPECIFIED IN THE CONSTRUCTION DETAIL OR MANUFACTURER'S RECOMMENDATIONS.
3. DAMAGED PERMEABLE PAVERS SHALL BE REPLACED ON A YEARLY BASIS. ANY SETTLEMENT OF PERMEABLE PAVERS SHALL BE FIXED ON A YEARLY BASIS BY REMOVAL OF THE PAVER BLOCKS AND AGGREGATE SUBBASE AND REPLACEMENT.
4. SNOW PLOWING OF PAVERS SHALL OCCUR WITH THE USE OF SKIDS ON THE CORNERS OF THE SNOW BLADE PLOW.

LANDSCAPE MAINTENANCE PRACTICES:

TREES

AERATION
- SOME TREE ROOT ZONES IN LAWN AREAS CAN BECOME COMPACTED DUE TO HEAVY PEDESTRIAN OR VEHICULAR TRAFFIC. THE LAWN AREAS WITHIN THE TREE DRIP ZIP SHOULD BE AERATED AT LEAST ONCE A YEAR.

FERTILIZATION
- TREES GENERALLY REQUIRE SUPPLEMENTAL FEEDING ANNUALLY. PROVIDE TWO POUNDS OF ACTUAL NITROGEN PER 1000 SQUARE FEET OF PLANTING AREA. NITROGEN SHALL BE IN A SLOWLY SOLUBLE FORM SUCH AS POLYMER COATED, SULFUR COATED UREA.

MULCHING
- USE 3 INCHES OF SHREDDED HARDWOOD BARK MULCH AT LEAST 4 FEET IN DIAMETER AROUND THE TRUNK. ADD MULCH AS REQUIRED. MULCH SHALL NOT BE PLACED AGAINST THE TREE TRUNK.

PRUNING
- PRUNE TO REMOVE CROSSING, DEAD, DISEASED OR BROKEN BRANCHES.

SHRUBS

FERTILIZATION
- MOST SHRUBS REQUIRE SUPPLEMENTAL FEEDING ANNUALLY. PROVIDE TWO POUNDS OF ACTUAL NITROGEN PER 1000 SQUARE FEET OF PLANTING AREA. NITROGEN SHALL BE IN A SLOWLY SOLUBLE FORM SUCH AS POLYMER COATED, SULFUR COATED UREA.

MULCHING
- MULCH ALL SHRUB BEDS WITH 3 INCHES OF SHREDDED HARDWOOD BARK MULCH. ADD MULCH AS NEEDED TO MAINTAIN THE DESIRED DEPTH. MULCH SHALL NOT BE PLACED AGAINST SHRUB STEMS.

PRUNING
- PRUNE ONLY TO REMOVE DEAD, DISEASED, OR BROKEN BRANCHES OR TO IMPROVE SHAPE AND STRUCTURE. DO NOT PRUNE SHRUBS INTO UNNATURAL GEOMETRIC SHAPES.

GROUND COVERS

MULCHING
- MULCH ALL GROUND COVERS WITH 2 INCHES OF COMPOSTED LEAF MULCH. REPLENISH AS REQUIRED.

TRIMMING
- GROUND COVERS SHOULD ONLY BE TRIMMED WHEN THEY OVERGROW THEIR PLANTER BED OR TO REMOVE DEAD OR DAMAGED BRANCHES.

PERENNIALS

PERENNIALS ARE A DIVERSE ASSORTMENT OF PLANTS. TYPICALLY, PERENNIALS HAVE ONE BLOOMING PERIOD EACH YEAR. AFTER BLOOMING, THE PLANTS MAY CONTINUE TO GROW; MAY DIE BACK AND VIRTUALLY DISAPPEAR, OR MAY RETAIN THE SAME APPEARANCE THROUGHOUT THE YEAR. MOST PERENNIALS ARE GROWN FOR THEIR FLOWER COLOR OR INTERESTING FOLIAGE.

MULCHING
- MULCH ALL PERENNIALS WITH 2 INCHES OF COMPOSTED LEAF MULCH. REPLENISH AS REQUIRED.

TRIMMING
- IN LATE MARCH REMOVE ALL PERENNIAL STEMS AND LEAVES TO 3 9/32 HEIGHT.

INERT MATERIAL
- MAINTENANCE REQUIREMENTS FOR INERT MATERIAL IN THE LANDSCAPE ARE FOCUSED ON WEED CONTROL. REGULAR AND TIMELY APPLICATION OF PRE-EMERGENT AND NON-SELECTIVE SYSTEMIC HERBICIDES WILL KEEP INERT MATERIAL AREAS LARGELY FREE OF WEEDS. PERIODIC RAKING AND LITTER REMOVAL ALSO CONTRIBUTE TO THEIR ATTRACTIVENESS.

OPERATION AND MAINTENANCE PLAN OWNER'S CERTIFICATION STATEMENT:

PROPERTY NAME: OAK BROOK PARK DISTRICT
PROPERTY ADDRESS: 1450 FOREST GATE ROAD OAK BROOK, IL 60523
AS THE OWNER(S) OF THE SUBJECT PROPERTY, BY SIGNING THIS DOCUMENT, I/WE ACKNOWLEDGE THAT I/WE HAVE RECEIVED AND REVIEWED THE OPERATION AND MAINTENANCE PLAN, DATED MONTH, DAY, YEAR, AND UNDERSTAND ITS CONTENTS. (AS REQUIRED BY THE STORMWATER MANAGEMENT ORDINANCE, TITLE 9).

IN THE EVENT THAT I/WE WERE TO SELL THIS PROPERTY, I/WE AGREE TO GIVE A COPY OF THE PLAN TO THE NEW OWNER(S) AND THIS OWNER'S CERTIFICATION STATEMENT FOR SIGNATURE. THIS SIGNED CERTIFICATION STATEMENT MUST BE SUBMITTED TO THE VILLAGE'S DEPARTMENT OF BUILDINGS UPON TRANSFER OF OWNERSHIP.

I/WE FURTHER AGREE TO ADHERE TO THE MAINTENANCE SCHEDULE OF BEST MANAGEMENT PRACTICES STIPULATED IN THE PLAN. I/WE ALSO ACKNOWLEDGE THAT IF I/WE DON'T MAINTAIN THE MEASURES AS SHOWN IN THE PLAN, UPON VILLAGE INSPECTION, I/WE COULD BE LIABLE FOR A VIOLATION OF THE VILLAGE'S MUNICIPAL CODE (ACCORDING TO STORMWATER MANAGEMENT ORDINANCE, TITLE 9).

____
INITIAL OWNER(S) PRINTED NAME

____
INITIAL OWNER(S) SIGNATURE ____ DATE ____

____
2ND OWNER(S) PRINTED NAME

____
2ND OWNER(S) SIGNATURE ____ DATE ____

____
3RD OWNER(S) PRINTED NAME

____
3RD OWNER(S) SIGNATURE DATE

ABBREVIATIONS

A	ARC LENGTH
B/C	BACK OF CURB
B-B	BACK-TO-BACK OF CURB
BIT	BITUMINOUS PAVEMENT
B.L.	BUILDING LINE
B.M.	BENCH MARK
BRW	BOTTOM OF RETAINING WALL
B/W	BACK OF SIDEWALK
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE
CO	CLEAN OUT
C & G	CURB AND GUTTER
C.B.	CATCH BASIN
CP	CONTROL POINT
DWG.	DRAWING
D.I.P.	DUCTILE IRON PIPE
DIA.	DIAMETER
D.	DISTANCE
DC	DEPRESSED CURB
D.E.	DRAINAGE EASEMENT
D.V.	DETENTION VOLUME
DS	DOWNSPOUT
ELEV./ EL.	ELEVATION
E/P	EDGE OF PAVEMENT
E.J.	EXPANSION JOINT
EX.	EXISTING
F.G.	FINISH GRADE
F-F	FACE-TO-FACE OF CURB OR STALL
F/L	FLOW LINE
F.H.	FIRE HYDRANT
F.E.S.	FLARED END SECTION
FIP	FOUND IRON PIPE
F/F	FINISHED FLOOR
GAV	GAS VALVE
GF	GRADE AT FOUNDATION
G.L.	GUTTER LINE
G.	GAS
GR	GRADE ELEVATION
GV/VV	GATE VALVE IN VALVE VAULT
GV/VB	GATE VALVE IN VALVE BOX
HDW	HEADWALL
HOR.	HORIZONTAL
H.W.E.	HIGH WATER ELEVATION
I.E. / INV.	INVERT ELEVATION
INL.	INLET
IRR.	IRRIGATION
L.	LENGTH
L.P.	LIGHT POLE
LT.	LEFT
(M)	MEASURED BEARING OR DISTANCE
M/E	MATCH EXISTING
M.O.	MID ORDINATE
MH	MANHOLE
N.D.L	NO DISTURB LINE
N.I.C.	NOT IN CONTRACT
N.W.E.	NORMAL WATER ELEVATION
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
PVC	POLYVINYL CHLORIDE
P.T.	POINT OF TANGENCY
P.L.	PROPERTY LINE
P.C.	POINT OF CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
P.G.	PROFILE GRADE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REC.	RECORD DIMENSION
R.O.W.	RIGHT-OF-WAY
RT	RIGHT
SHT	SHEET
S	SLOPE
STA	STATION
STMH	STORM MANHOLE
SAN	SANITARY
SMH	SANITARY MANHOLE
T.E.	TOP ELEVATION
T/C	TOP OF CURB
T.O.P.	TOP OF PIPE
T	TELEPHONE
TRW	TOP OF RETAINING WALL
TYP	TYPICAL
U.E.	UTILITY EASEMENT
V.C.	VERTICAL CURVE
V.I.F.	VERIFY IN FIELD
V.I.T.	VITRIFIED HUB TILE
V.B.	VALVE BOX
V.V.	VALVE VAULT
V.C.P.	VITRIFIED CLAY PIPE
VER.	VERTICAL
W	WATER
W/	WITH
WM	WATER MAIN

LEGEND

EXISTING

	STORM SEWER		FIRE HYDRANT
	SANITARY SEWER		WATER VALVE VAULT
W W	WATER MAIN	VB	WATER VALVE BOX
T	TELEPHONE	BB	WATER BUFFALO BOX
E	ELECTRICAL	WM	WATER METER
G	GAS MAIN	EM	ELECTRIC METER
	GUARD RAIL	GM	GAS METER
X X X	EXISTING FENCE	GV	GAS VALVE
	STORM MANHOLE	CO	CLEANOUT
	CATCH BASIN		CITY ELEC. MH
	INLET		COMED ELEC. MH
	FLARED END SECTION		TELEPHONE MH
	SANITARY MANHOLE		SOIL BORING
	DECIDUOUS TREE		LIGHT POLE
	EVERGREEN TREE		POWER POLE
	SIGN		TELEPHONE POLE

PROPOSED

	COMBINED SEWER		FIBER OPTIC CONDUIT
	STORM SEWER		ELECTRIC LIGHT
	SANITARY SEWER		CLEANOUT ACCESS
W W	WATER MAIN		FIRE HYDRANT
T	TELEPHONE		WATER VALVE VAULT
E	ELECTRICAL	BB	WATER VALVE BOX
G	GAS MAIN		ELECTRIC MANHOLE
	GUARD RAIL		TELEPHONE PEDESTAL
	STORM MANHOLE		GAS METER
	CATCH BASIN	DS	DOWNSPOUT
	SANITARY MANHOLE		
	DECIDUOUS TREE		
	SIGN		
	TELEVISION		
	ELECTRIC GENERATOR		
	ELECTRIC TRANSFORMER		
	ELECTRIC METER BOX		
SF	SILT FENCE		
X X X	FENCE/GATE		

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/18/2020
1	Revised for Village comments	02/21/2020
	ISSUED FOR PERMITS	02/04/20
	ISSUED FOR PERMITS	11/08/19

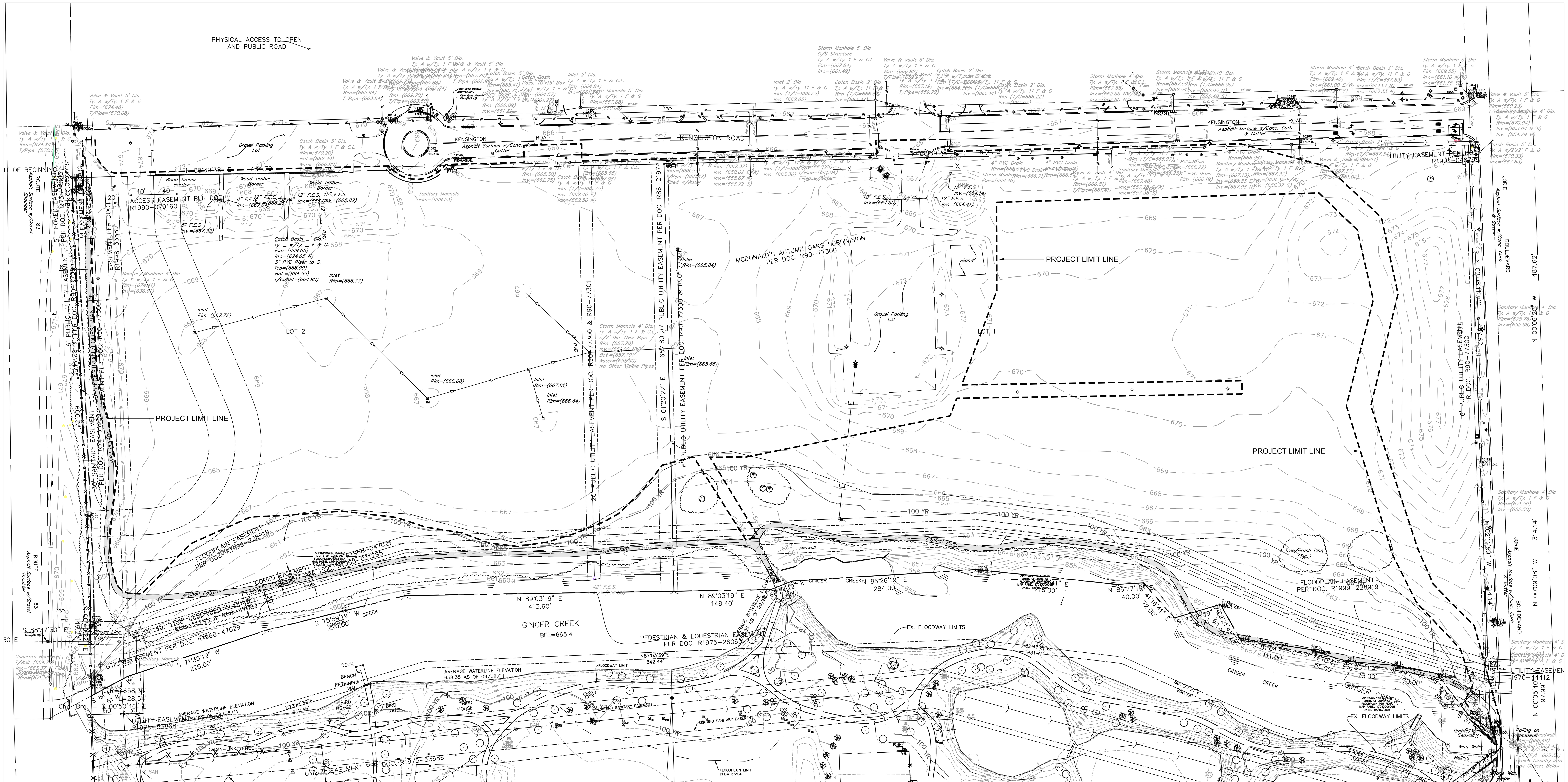
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

GENERAL NOTES, OPERATIONS AND MAINTENANCE PLAN

Project Number:
190083
Drawn By:
RA
Sheet:

L0.01



NORTH

GRAPHIC SCALE

80 0 40 80 160

1 INCH = 80 FEET

OAK BROOK PARK DISTRICT 19 62

OAK BROOK PARK DISTRICT

Wight

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

Civil Engineer

WBK Engineering, LLC
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Aurora, IL 60506
630.338.8562

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CENTRAL PARK NORTH FIELDS PHASE 1

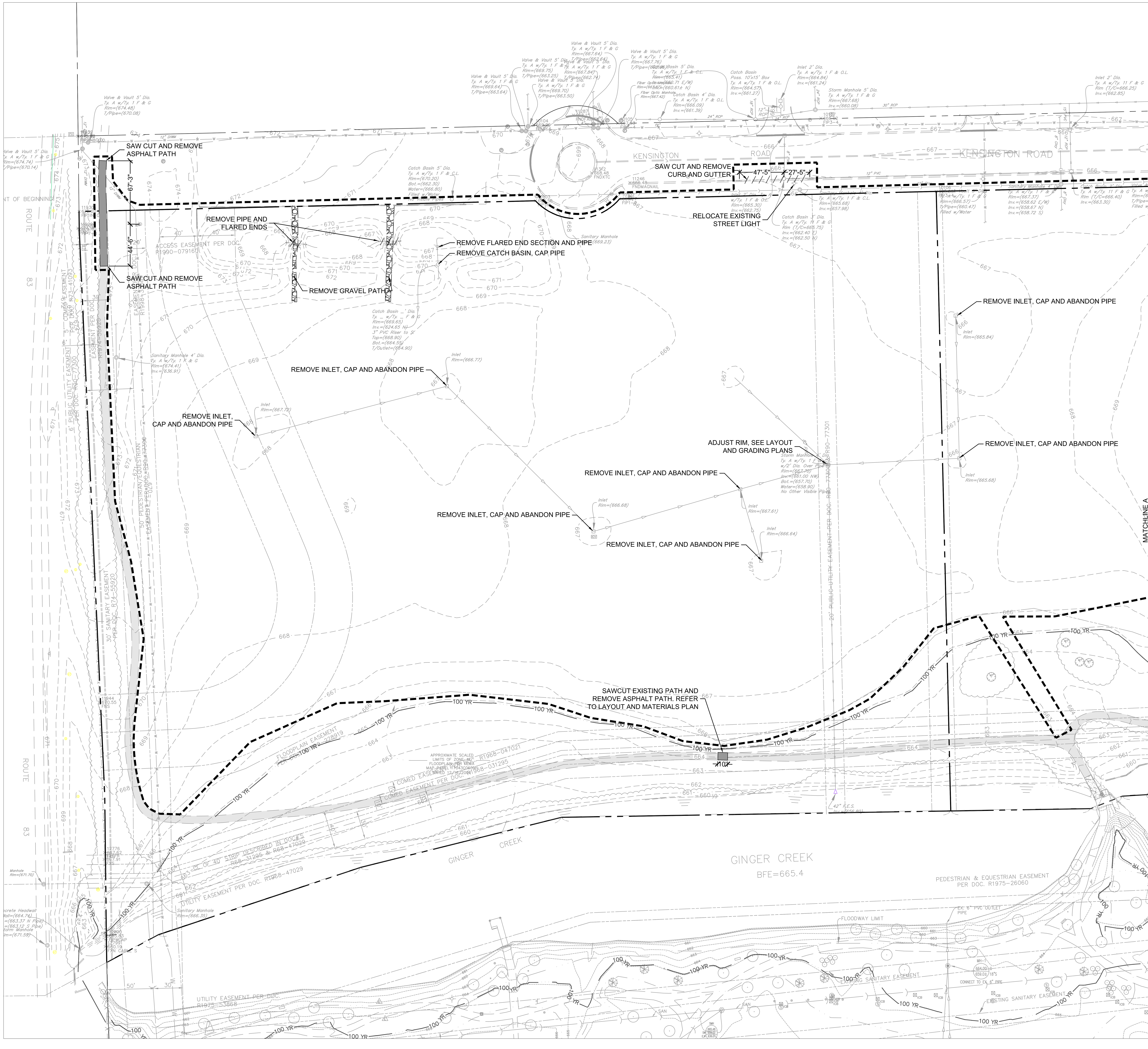
1315 Kensington Rd
Oak Brook, IL 60523

EXISTING CONDITIONS

Project Number:
190083
Drawn By:
RA
Sheet:

L1.00

S:\Darien\Oak Brook Park District\190083 Autumn Oaks-Central Park\01.11 Drawings\02 CD\190083 L1.00 EXISTING CONDITIONS.dwg ralexander Mar 16, 2020 2:43:16 pm

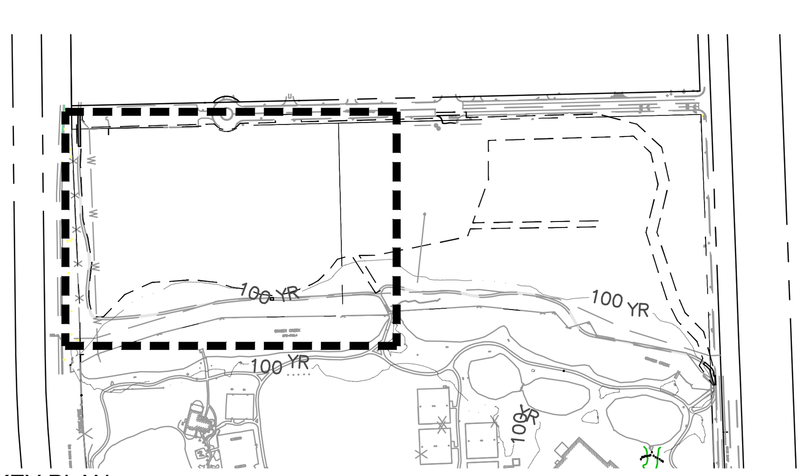


LEGEND

- ITEM REMOVAL
- LINEAR ITEM REMOVAL
- GRAVEL REMOVAL
- REMOVE HMA AND STONE BASE
- PROPERTY LINE
- PROJECT LIMIT LINE

DEMOLITION NOTES

1. EROSION CONTROL MEASURES INDICATED ON SESC PLAN AND SWPPP SHALL BE IN PLACE PRIOR TO ANY DISTURBANCE.
2. CONTRACTOR TO LOCATE ALL PUBLIC & PRIVATE UTILITIES IN THE RIGHT-OF-WAY AND SITE PRIOR TO CONSTRUCTION. 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 IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF EXISTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE ITEMS (FURNISHINGS, PAVEMENT, CURB, ETC.) NOT DESIGNATED FOR REMOVAL. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE ORIGINAL OR BETTER CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING AS SHOWN ON PLANS AND DETAILS PRIOR TO BEGINNING WORK. MAINTAIN AND ADJUST FENCING AS NEEDED DURING CONSTRUCTION. ALL STORAGE, VEHICULAR ACCESS, AND OTHER CONSTRUCTION ACTIVITIES ARE STRICTLY PROHIBITED WITHIN THE LIMITS OF THE TREE PROTECTION FENCING.
5. PLANS INDICATE THE GENERAL LIMITS OF REMOVALS. CONTRACTOR SHALL PERFORM ONLY THE REMOVALS NECESSARY FOR THE CONSTRUCTION OF PROPOSED IMPROVEMENTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVALS OR RESTORATION NOT REQUIRED TO CONSTRUCT THE IMPROVEMENTS AS DRAWN AND SPECIFIED. REFER TO LAYOUT PLAN AND VERIFY CONDITIONS IN THE FIELD PRIOR TO PERFORMING REMOVALS. IN CASE OF DISCREPANCY, THE LAYOUT PLANS SHALL PRESIDE.
6. ALL PAVEMENT REMOVALS SHALL BE SAWCUT. CONCRETE PAVING SHALL BE SAWCUT AT NEAREST JOINT. SAWCUTS FOR REMOVAL SHALL BE INCLUDED IN THE UNIT COST FOR REMOVALS.
7. ALL ITEMS DESIGNATED AS SALVAGE SHALL BE CAREFULLY REMOVED TO MAINTAIN CURRENT CONDITION. ITEMS SHALL BE STORED FOR REINSTALLATION BY THE CONTRACTOR OR DELIVERED TO THE OWNER DIRECTED LOCATION
8. ALL ITEMS DESIGNATED FOR REMOVAL SHALL INCLUDE COMPLETE REMOVAL OF ABOVE GRADE ITEM AND BELOW GRADE APPURTENANCES (FOUNDATIONS, URBAN FILL, WIRING, PIPING, ETC.) AND PROPER DISPOSAL OFFSITE.
9. ANY UTILITY ADJUSTMENTS, CONFLICTS, RELOCATIONS, ETC. REQUIRED SHALL BE COORDINATED WITH ENGINEER AND UTILITY OWNER/PROVIDER.
10. ALL DEMOLITION AND CONSTRUCTION IN THE RIGHT-OF-WAY SHALL BE COORDINATED AND APPROVED BY THE VILLAGE OF OAK BROOK. THE CONTRACTOR IS TO CONTACT THE INSPECTORS AT THE VILLAGE OF OAK BROOK PRIOR TO CONSTRUCTION.
11. COORDINATE ALL ELECTRICAL, CABLE FIBER, ETC., REMOVAL/RELOCATION WITH MEP PLANS. CONTRACTOR SHALL PROTECT ALL EXISTING SERVICES DURING CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
12. ALL EXISTING SHRUBS, BUSHES, AND LANDSCAPING IN CONFLICT WITH SITE IMPROVEMENTS SHALL BE REMOVED WHETHER INDICATED FOR REMOVAL OR NOT; UNLESS SPECIFICALLY DESIGNATED FOR PROTECTION. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REMOVAL OF THESE MATERIALS.
13. REMOVE AND DISPOSE OF TURF WHERE PLANTING BEDS ARE INDICATED. SEE LANDSCAPE PLAN.
14. WHERE TURF OR PLANTINGS ARE PROPOSED IN EXISTING PAVED AREAS, REMOVE ALL BASE MATERIAL.
15. ANY UTILITIES LISTED AS TO BE ABANDONED THAT ARE EXPOSED DURING GRADING ACTIVITIES SHALL BE REMOVED.



KEY PLAN

GRAPHIC SCALE

50 0 25 50 100

1 INCH = 50 FEET

NORTH

OAK BROOK PARK DISTRICT

Wight

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

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	ISSUED FOR PERMITS	11/08/19
REV	DESCRIPTION	DATE

CENTRAL PARK NORTH FIELDS PHASE 1

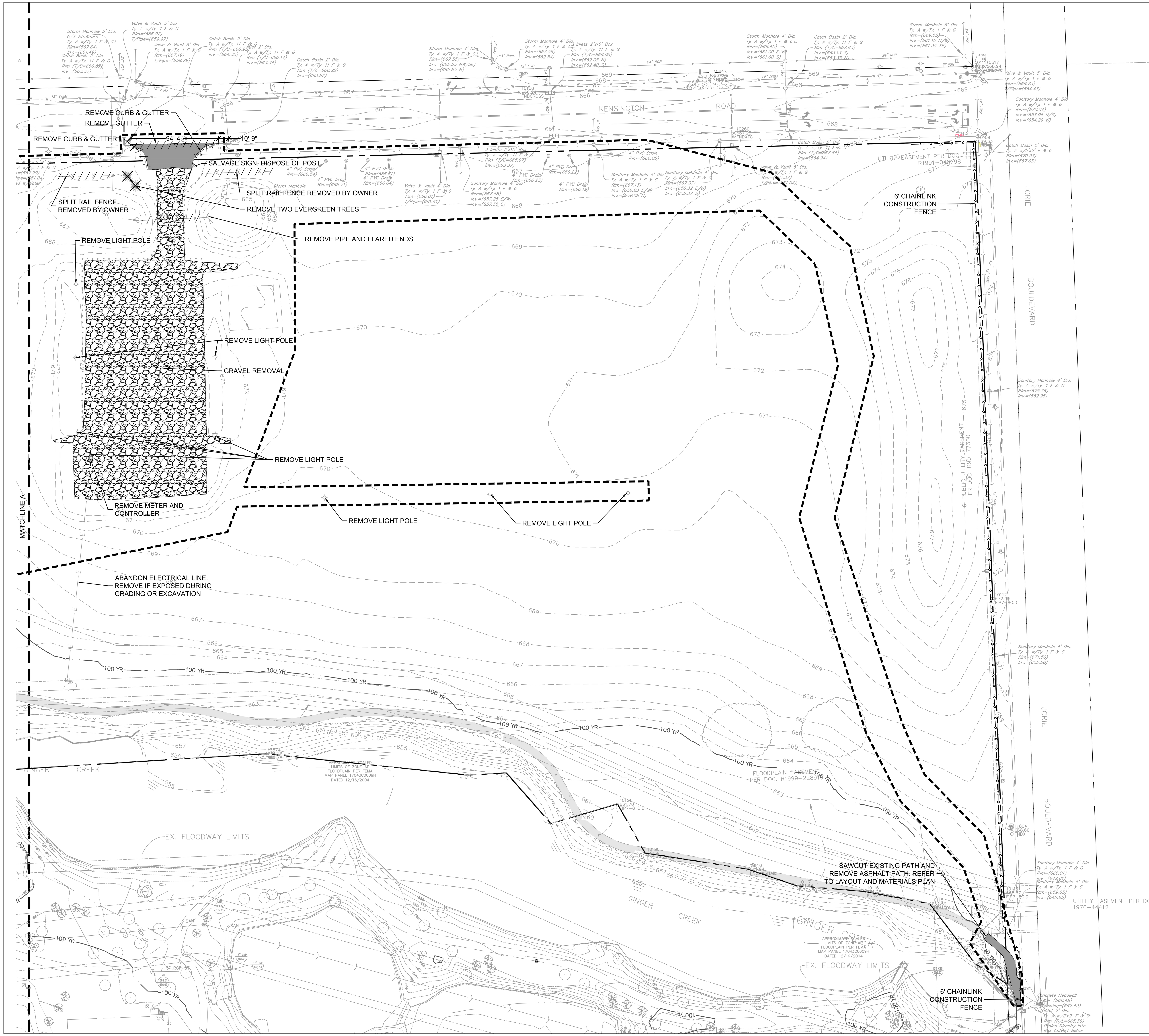
1315 Kensington Rd
Oak Brook, IL 60523

SITE PREPARATION AND REMOVALS PLAN - WEST

Project Number:
190083
Drawn By:
RA
Sheet:

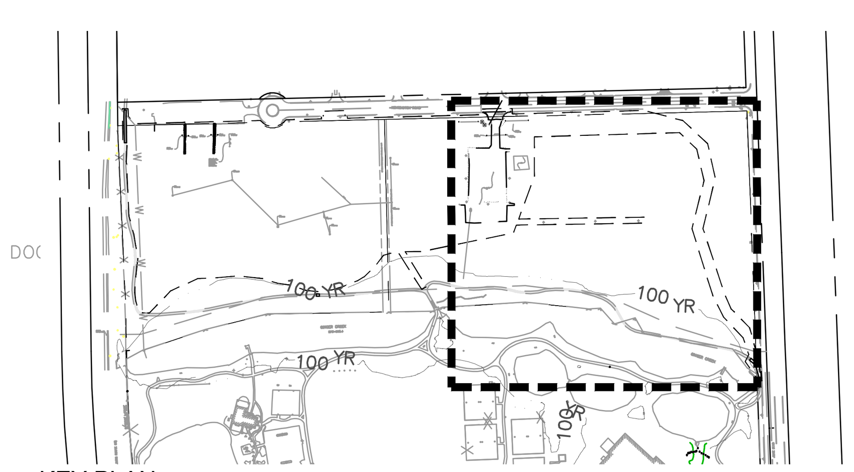
L2.01

S:\Darien\Oak Brook Park District\190083 Autumn Oaks-Central Park\01\11 Drawings\02 CD\190083_L2.00 DEMOLITION PLAN.dwg ralexander Mar 16, 2020 2:43:30 pm



LEGEND

- ITEM REMOVAL
- LINEAR ITEM REMOVAL
- GRAVEL REMOVAL
- REMOVE HMA AND STONE BASE
- PROPERTY LINE
- PROJECT LIMIT LINE



KEY PLAN

GRAPHIC SCALE

50 0 25 50 100

NORTH

1 INCH = 50 FEET

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Wight

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

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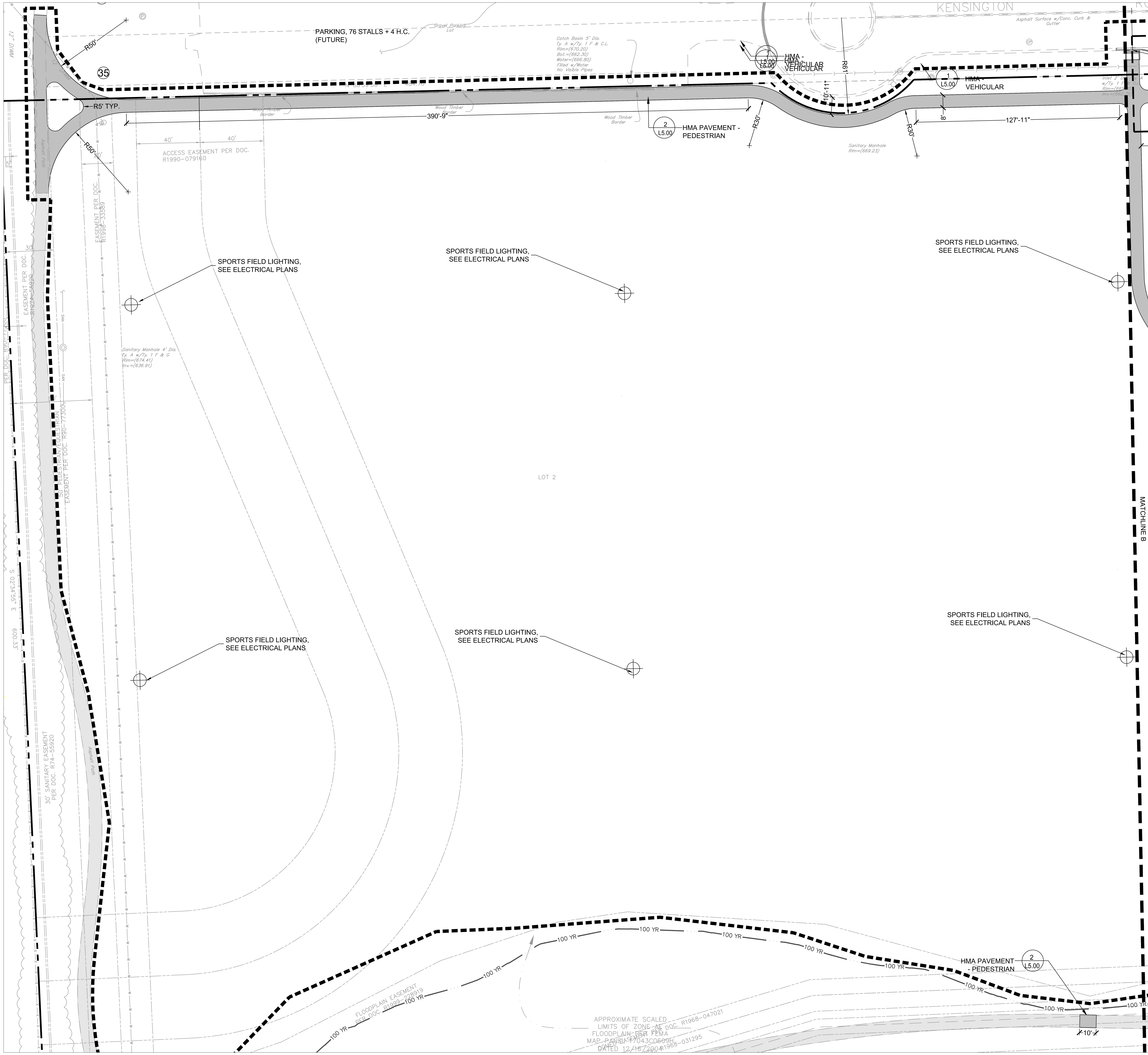
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

SITE PREPARATION AND REMOVALS PLAN - EAST

Project Number:
190083
Drawn By:
RA
Sheet:

L2.02

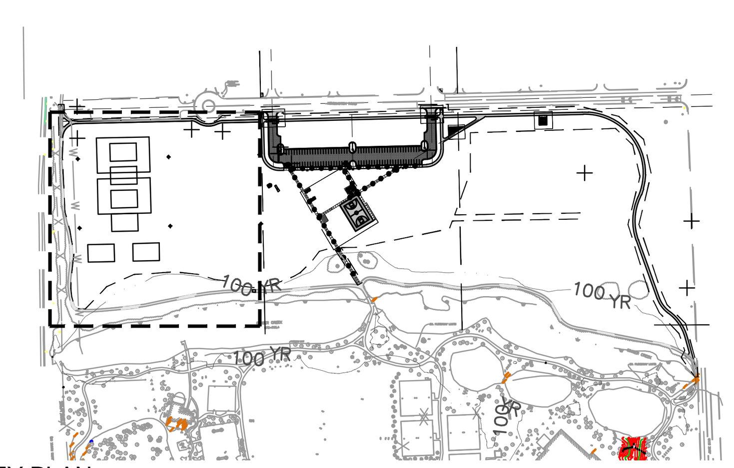


LEGEND

	HMA PAVEMENT
	CONCRETE PAVEMENT
	PROPOSED LIGHT POLE
	PROPOSED SIGN
XX	PARKING COUNT
	PROPERTY LINE
	PIP RUBBER SURFACE
	ALTERNATE: PERMEABLE PAVERS SEE DETAIL#3/L5.03
	APPROX. PROJECT LIMITS
	EXPANSION JOINT

LAYOUT AND MATERIALS NOTES

1. ALL LAYOUT FOR SITE IMPROVEMENTS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR HIRED BY THE CONTRACTOR. LAYOUT SHALL BE COMPLETED USING THE ELECTRONIC CAD FILES PROVIDED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADJUSTMENT NECESSARY TO CONSTRUCT THE WORK AS DRAWN.
2. CONTRACTOR SHALL OBTAIN APPROVAL OF LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE TO CORRECT WORK IF CONSTRUCTED INCORRECTLY PRIOR TO APPROVAL OF LAYOUT.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL LAYOUT MARKINGS. NO ADDITIONAL PAYMENT WILL BE MADE TO REPLACE MARKINGS.
4. ALL DIMENSIONS, CURB RADII, AND ELEVATIONS REFER TO THE BACK OF CURB WHERE CURB SHOWN UNLESS OTHERWISE SHOWN. ALL WALL DIMENSIONS ARE TO THE FACE OF WALL UNLESS OTHERWISE SHOWN. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. COORDINATES ARE TO THE BACK OF CURB, CENTER OF STRUCTURE, OR AS SHOWN.
5. ALL RADII SHALL BE SMOOTH AND CONTINUOUS AND NOT SEGMENTED. CONTRACTOR TO PROVIDE STAKES A MINIMUM OF EVERY 10 FEET WHERE RADIUS POINTS ARE NOT ACCESSIBLE.
6. ADJUSTMENTS TO STAKE LOCATIONS DUE TO DISCREPANCIES BETWEEN COORDINATES AND DIMENSIONS ARE CONSIDERED INCIDENTAL TO THE WORK.
7. CONTRACTOR RESPONSIBLE TO TAKE DELIVERY, VERIFY CONDITION AND COMPLETENESS, ASSEMBLE AND INSTALL ALL MATERIALS AND FURNISHINGS PER MANUFACTURER'S INSTRUCTIONS UNLESS SPECIFIED BY OWNER.
8. PLACE CONTROL AND EXPANSION JOINTS WHERE INDICATED ON PLANS AND DETAILS FOR CONCRETE WORK. WHERE JOINTS ARE NOT SHOWN, PLACE CONTROL JOINTS IN SPACING TO MATCH PAVEMENT WIDTH OR MAXIMUM OF 10 FEET ON CENTER. EXPANSION JOINTS SHALL BE A MAXIMUM OF 30 FEET ON CENTER AND BETWEEN ALL POURS AND EXISTING CONCRETE OR WALLS.



KEY PLAN

GRAPHIC SCALE

1 INCH = 30 FEET

NORTH

OAK BROOK PARK DISTRICT

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

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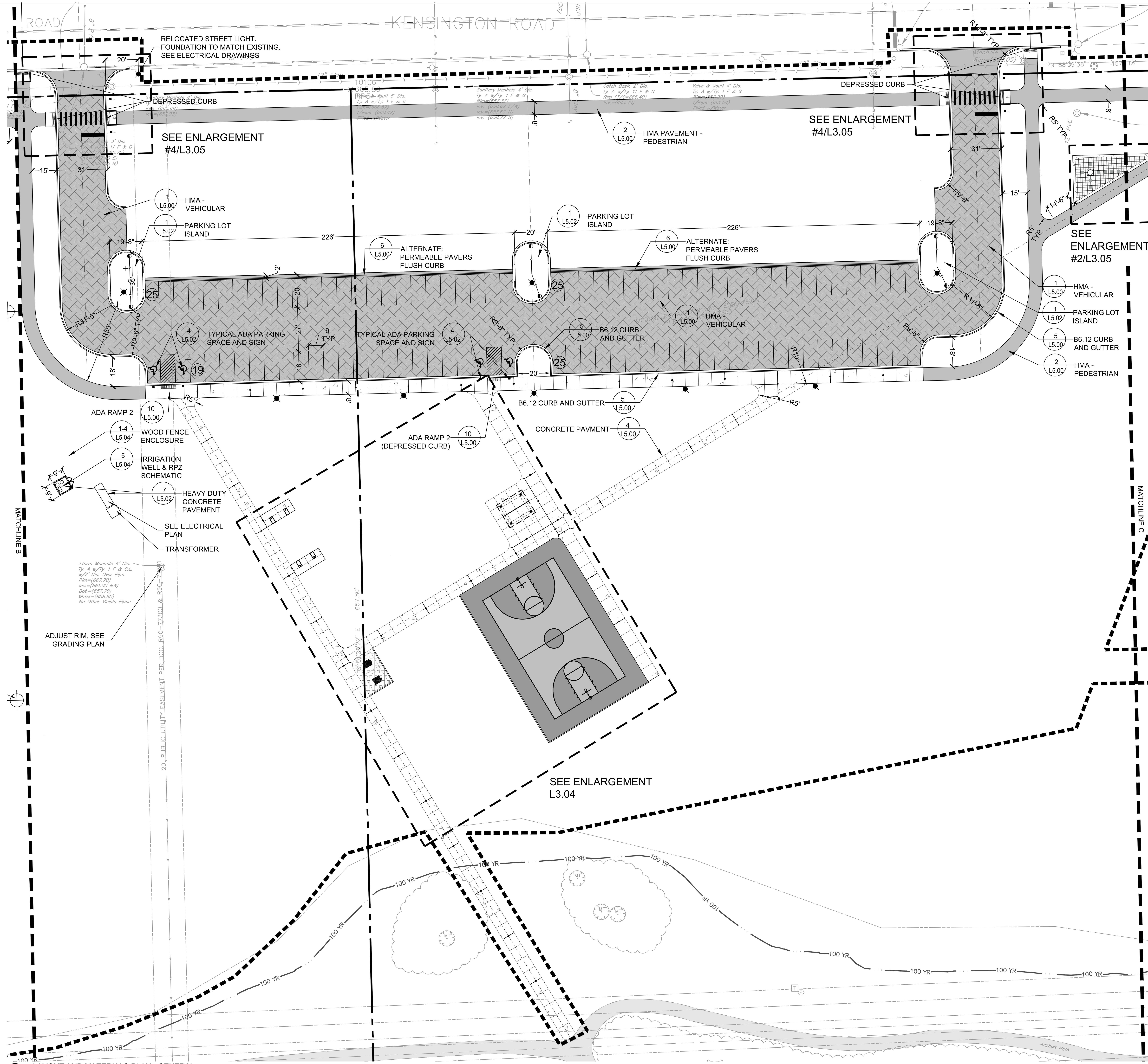
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LAYOUT AND MATERIALS PLAN WEST

Project Number: 190083
Drawn By: RA
Sheet:

L3.01

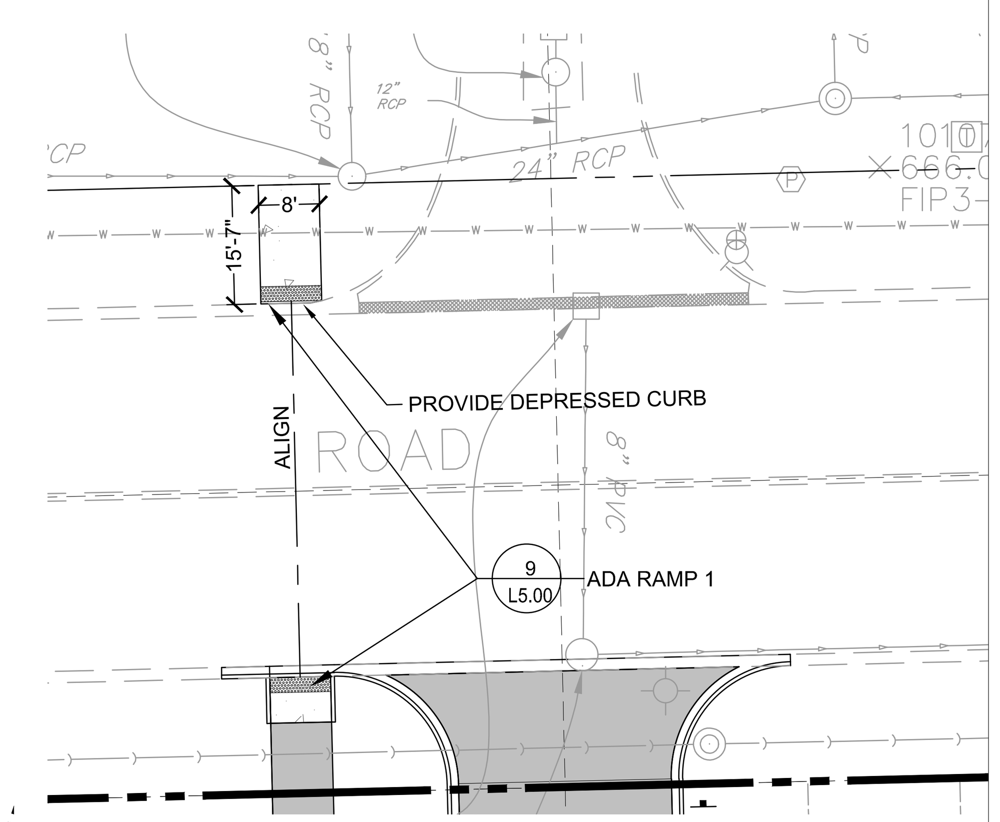


1 LAYOUT AND MATERIALS PLAN - CENTRAL
SCALE: 1" = 30'-0"

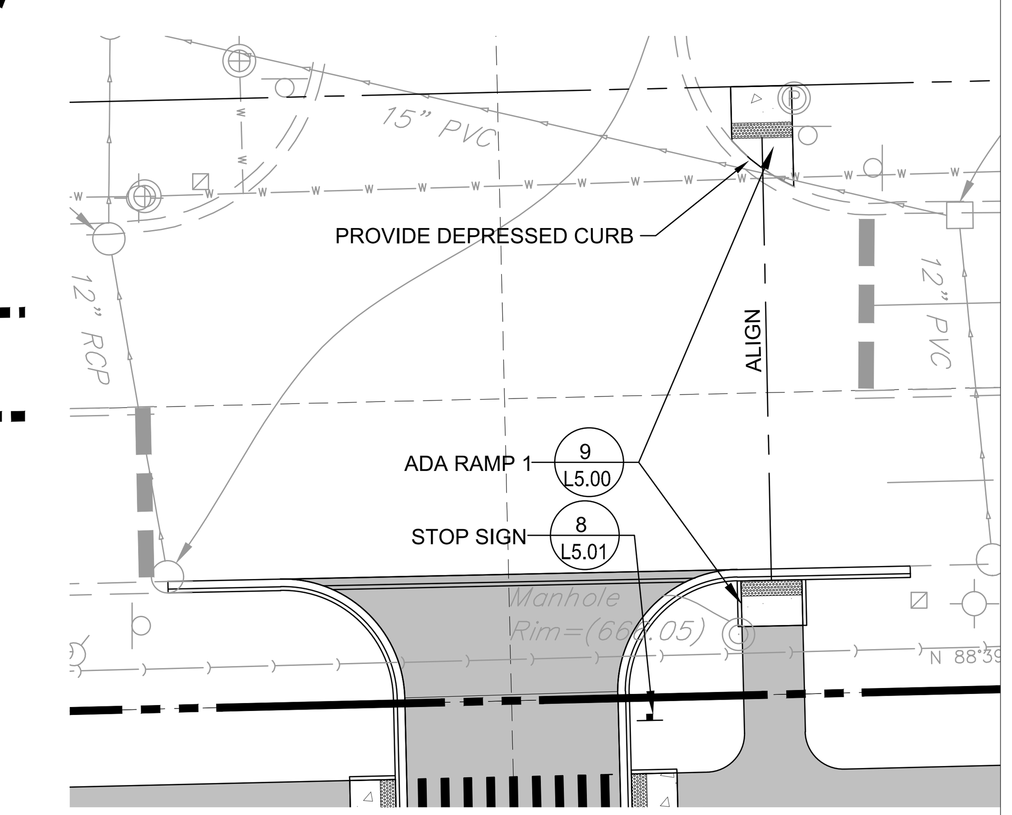
S:\Darien\Oak Brook Park District\190083 Autumn Oaks-Central Park\01\11 Drawings\02 CD\190083_L3.00 LAYOUT PLAN.dwg ralexander Mar 16, 2020 2:45:32 pm

LEGEND

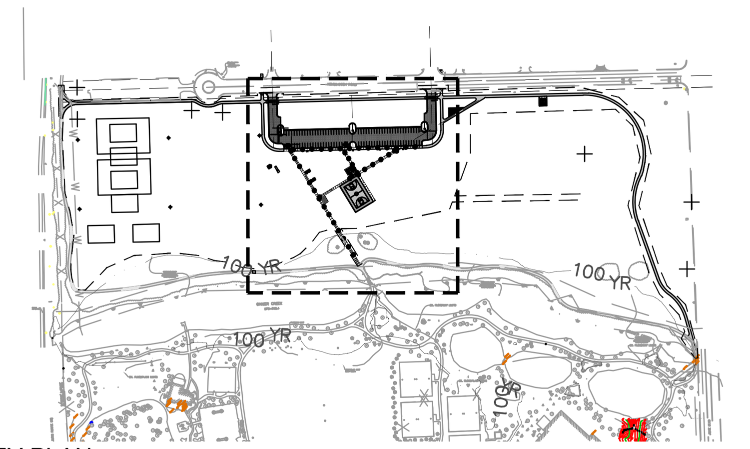
- HMA PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED SIGN
- PARKING COUNT
- PROPERTY LINE
- PIP RUBBER SURFACE
- ALTERNATE: PERMEABLE PAVERS SEE DETAIL#3/L5.03
- APPROX. PROJECT LIMITS
- EXPANSION JOINT



2 KENSINGTON ROAD SIDEWALK RAMP - WEST DRIVE
SCALE: 1" = 20'-0"



3 KENSINGTON ROAD SIDEWALK RAMP - EAST DRIVE
SCALE: 1" = 20'-0"



KEY PLAN

NORTH

GRAPHIC SCALE
30 0 15 30 60
1 INCH = 30 FEET

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

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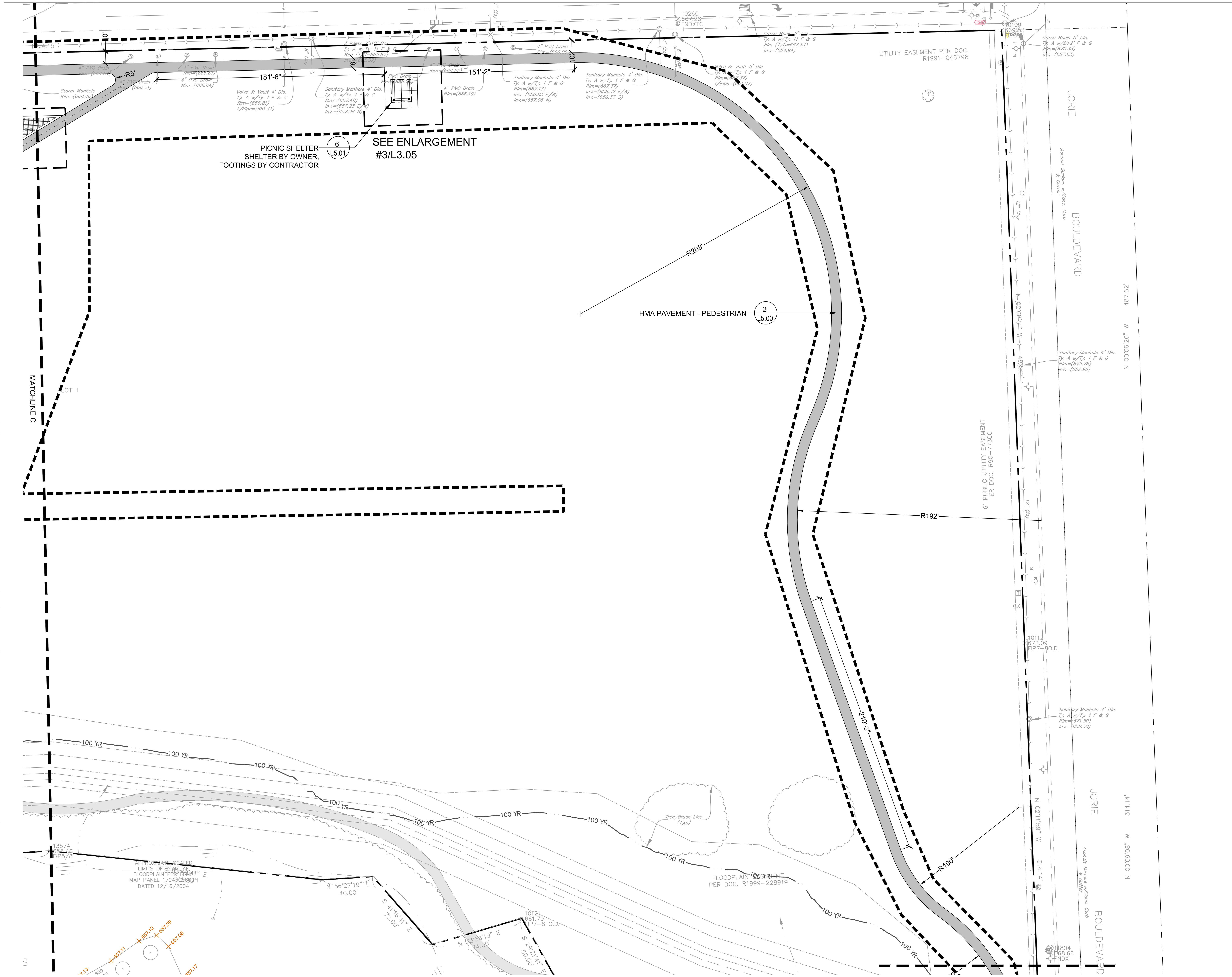
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LAYOUT AND MATERIALS PLAN CENTRAL

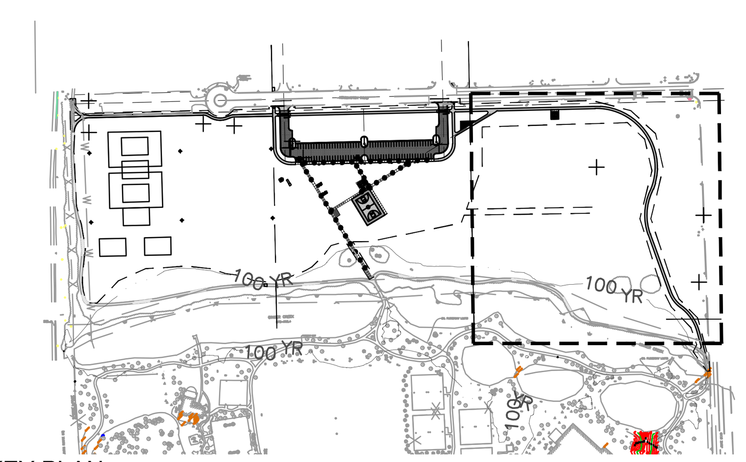
Project Number:
190083
Drawn By:
RA
Sheet:

L3.02



LEGEND

- HMA PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED SIGN
- (XX) PARKING COUNT
- PROPERTY LINE
- PIP RUBBER SURFACE
- ALTERNATE: PERMEABLE PAVERS SEE DETAIL#3/L5.03
- APPROX. PROJECT LIMITS
- EXPANSION JOINT



KEY PLAN

NORTH

GRAPHIC SCALE
40 0 20 40 80
1 INCH = 40 FEET

OAK BROOK PARK DISTRICT

Wight

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
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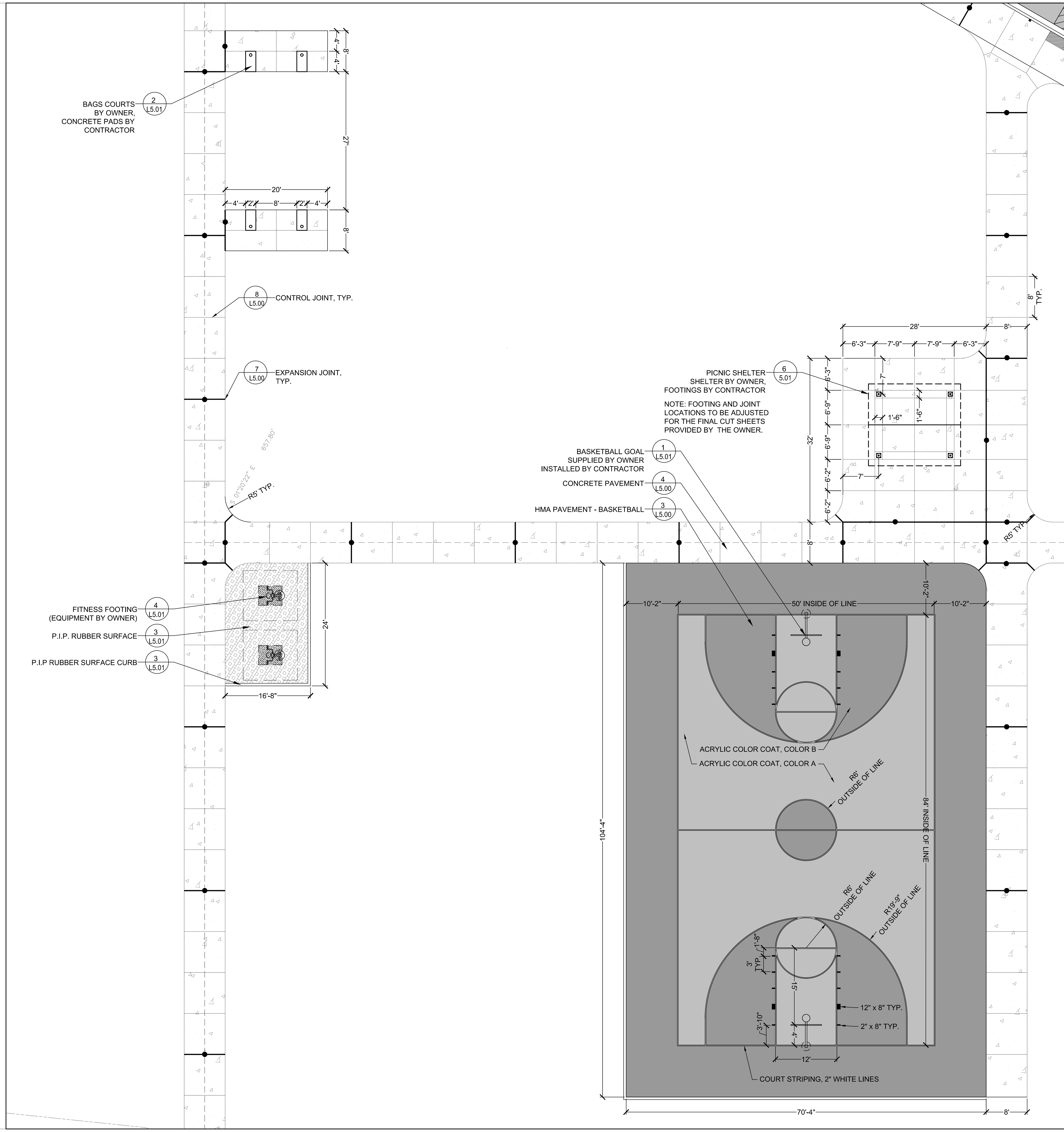
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LAYOUT AND MATERIALS PLAN EAST

Project Number:
190083
Drawn By:
RA
Sheet:

L3.03

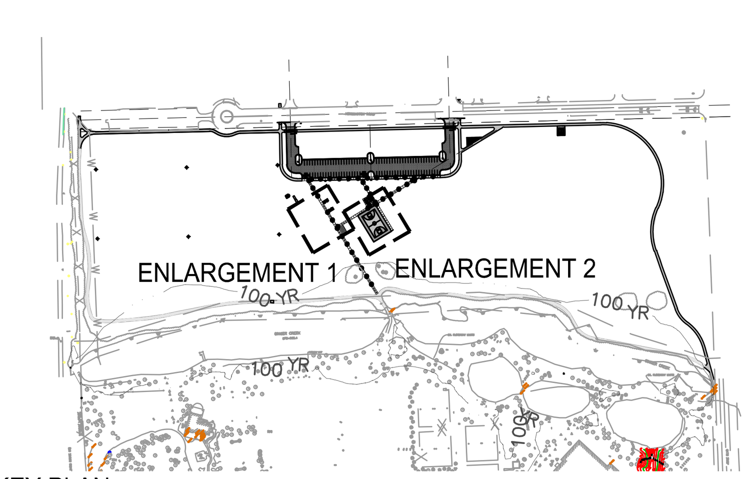


LEGEND

- HMA PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED SIGN
- XX PARKING COUNT
- PROPERTY LINE
- PIP RUBBER SURFACE
- ALTERNATE: PERMEABLE PAVERS SEE DETAIL#3/L5.03
- APPROX. PROJECT LIMITS
- EXPANSION JOINT

NORTH

GRAPHIC SCALE
10 0 5 10 20
1 INCH = 10 FEET



KEY PLAN

OAK BROOK PARK DISTRICT

Wight

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 NORTH FIELDS PHASE 1

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LAYOUT AND MATERIAL PLAN ENLARGEMENTS

Project Number: 190083
Drawn By: RA
Sheet:

L3.04

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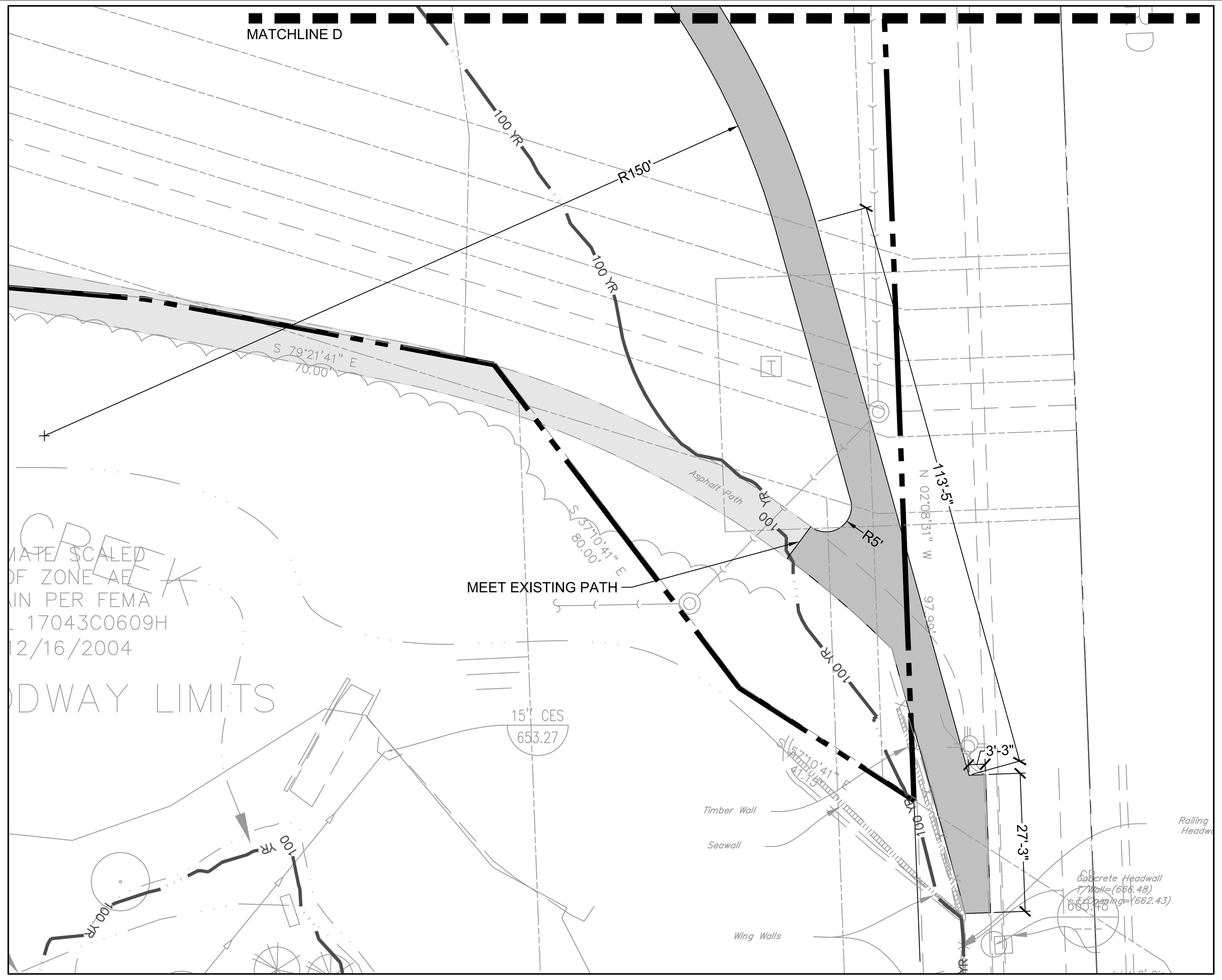
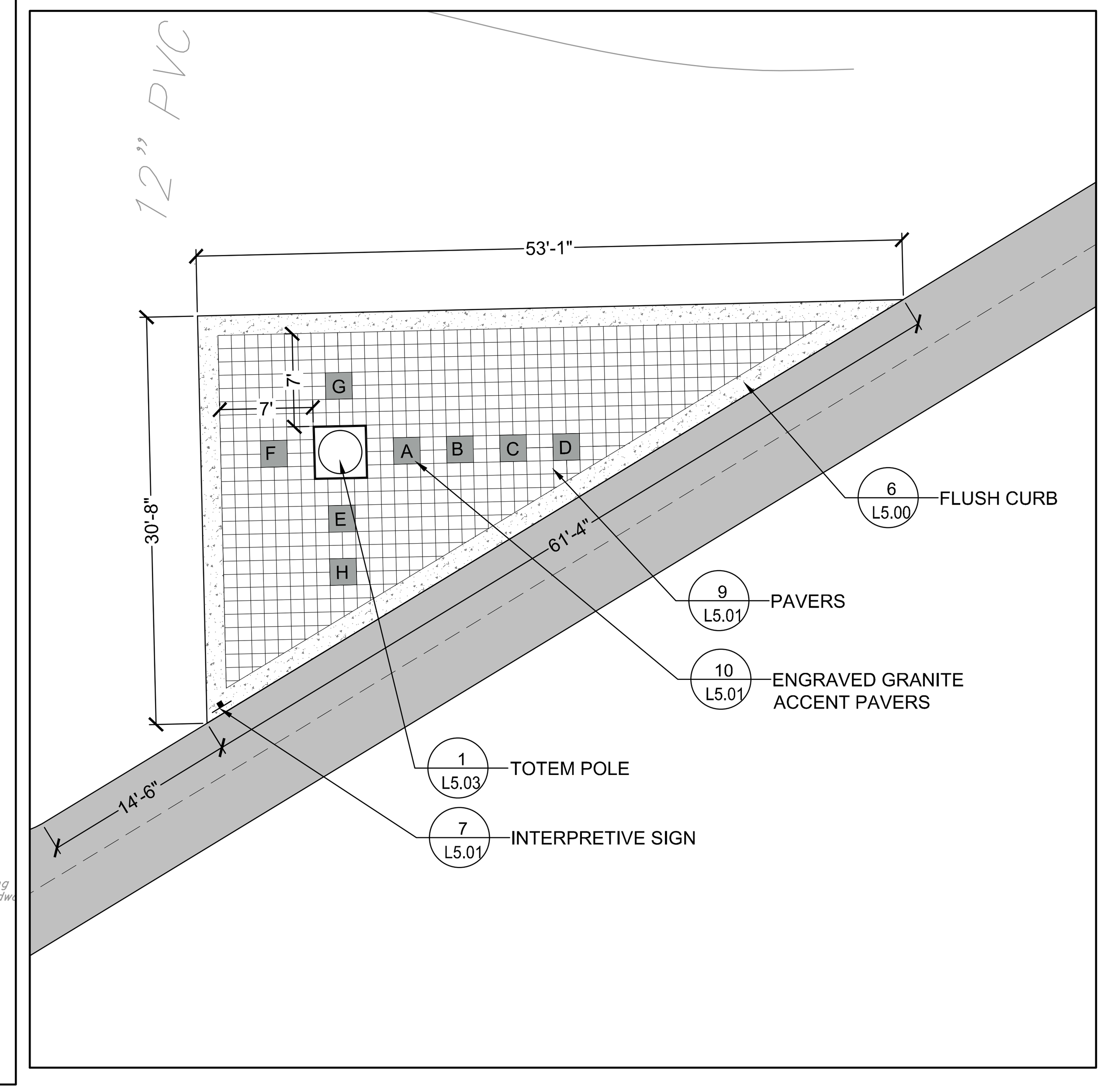


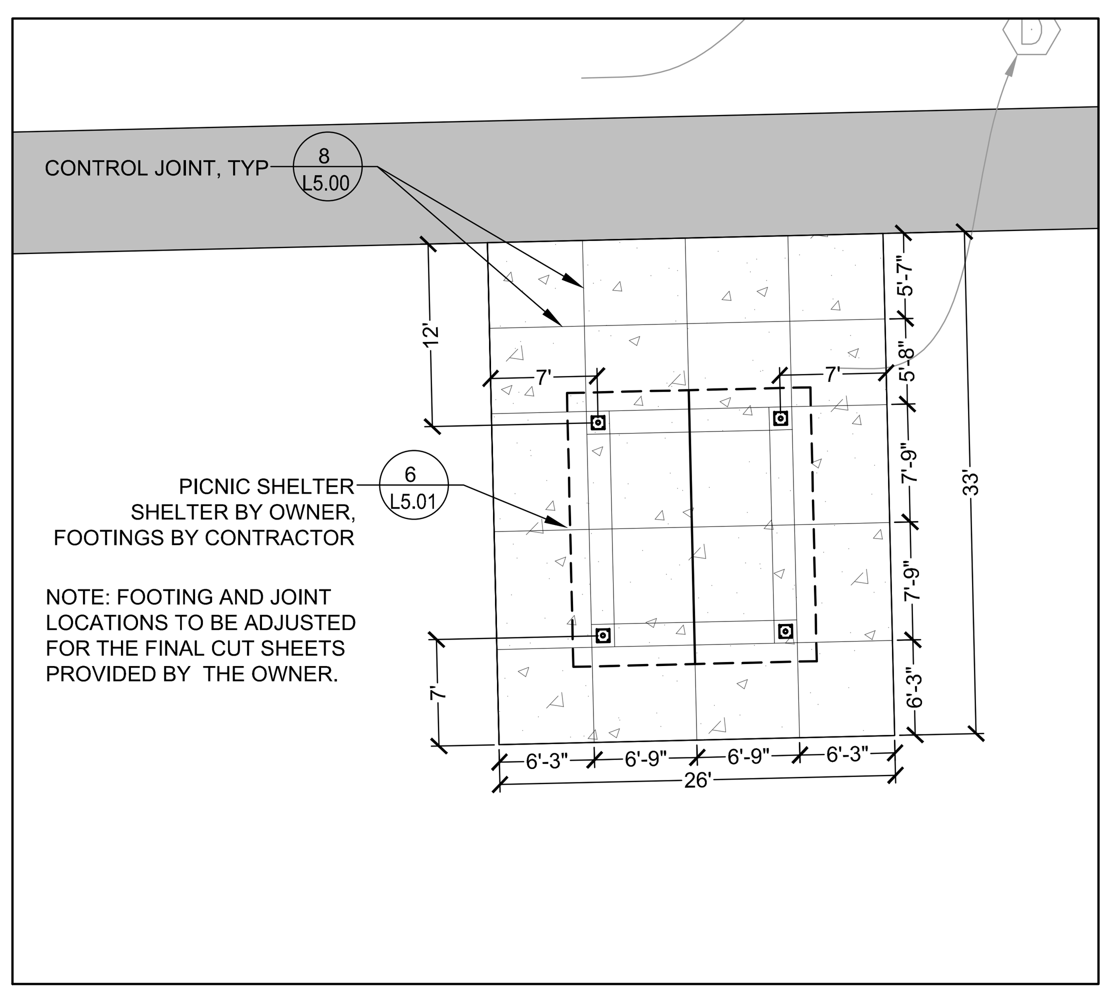
1 SOUTHWEST PATH CONNECTION
SCALE: 1" = 20'-0"



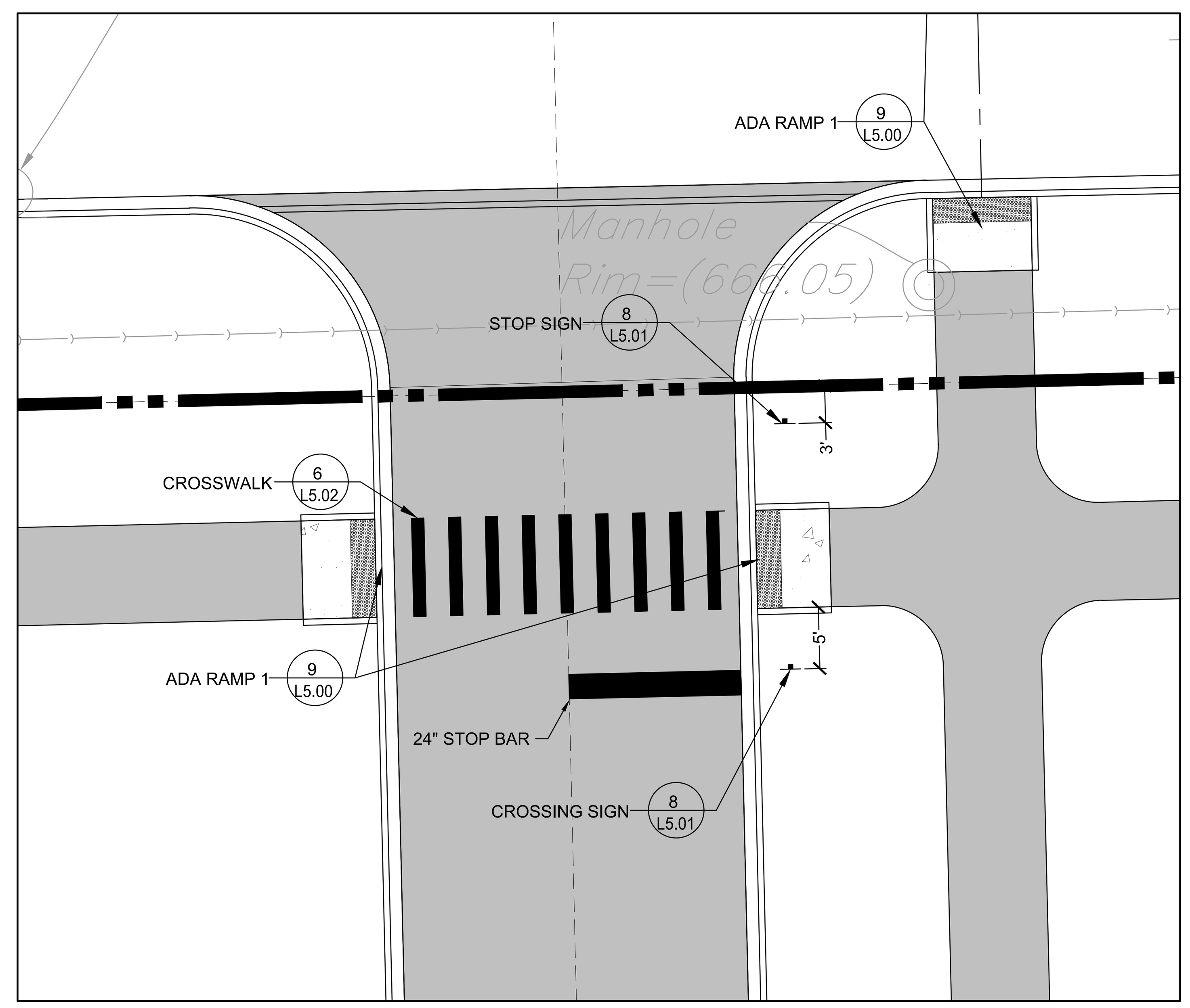
2 TOTEM POLE PLAZA
SCALE: 1" = 10'-0"

LEGEND

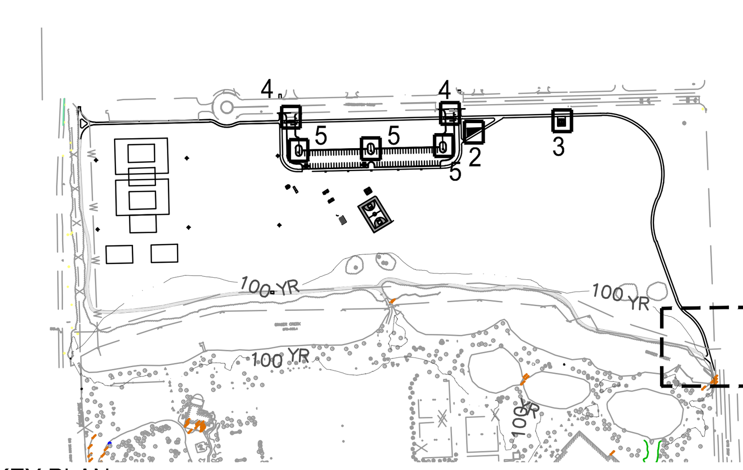
- HMA PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED SIGN
- (XX) PARKING COUNT
- PROPERTY LINE
- PIP RUBBER SURFACE
- ALTERNATE: PERMEABLE PAVERS SEE DETAIL#3/L5.03
- APPROX. PROJECT LIMITS
- EXPANSION JOINT



3 NORTHEAST PICNIC SHELTER
SCALE: 1" = 10'-0"



4 PARKING LOT DRIVE - TYPICAL
SCALE: 1" = 10'-0"



KEY PLAN

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

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1	Revised for Village comments	02/21/2020
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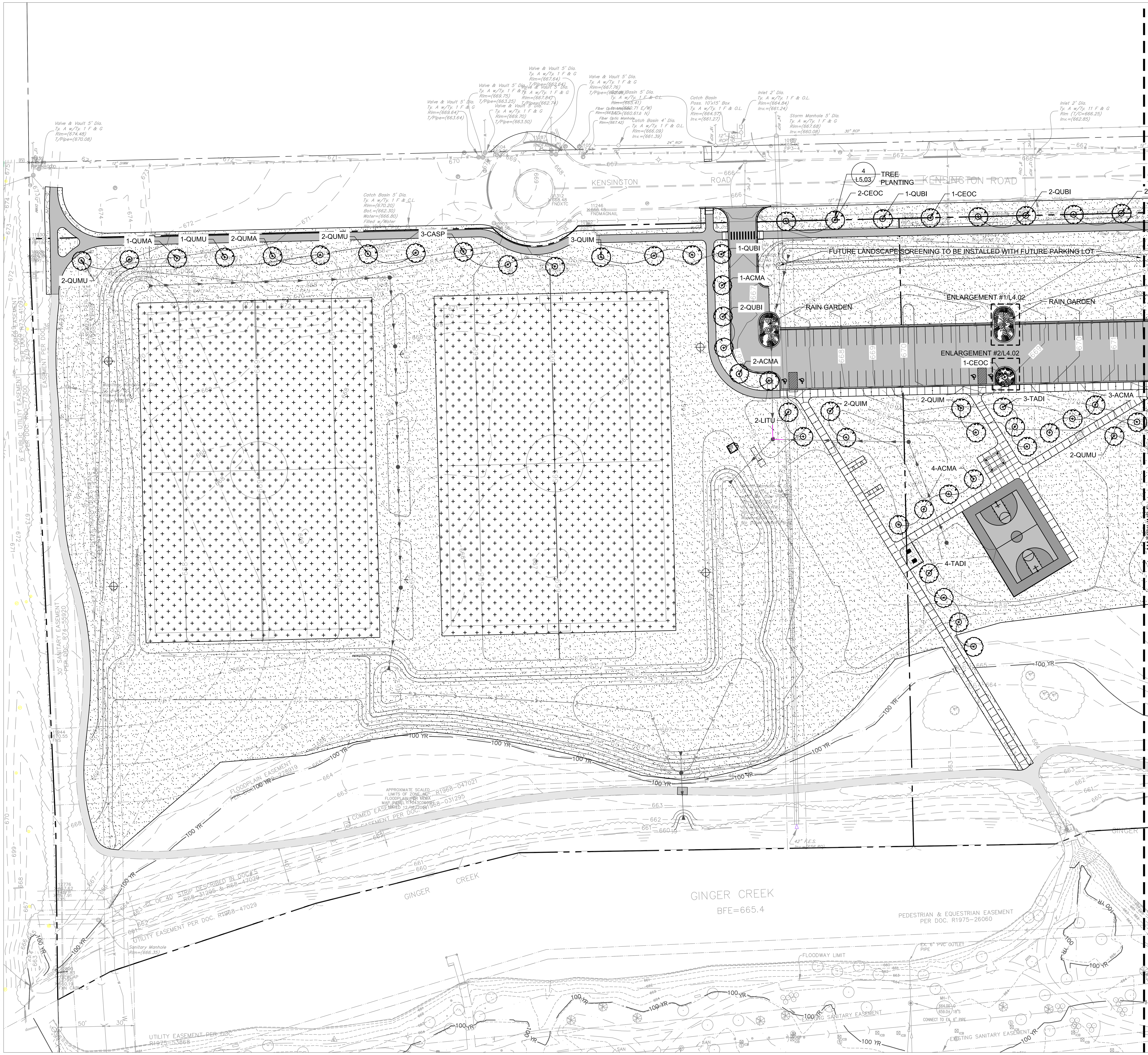
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LAYOUT AND MATERIAL PLAN ENLARGEMENTS

Project Number:
190083
Drawn By:
RA
Sheet:
L3.05

S:\Darien\Oak Brook Park District\190083 Autumn Oaks-Central Park\01\11 Drawings\02 CD\190083_L3.00 LAYOUT PLAN.dwg ralexander Mar 16, 2020 2:45:51 pm



LEGEND

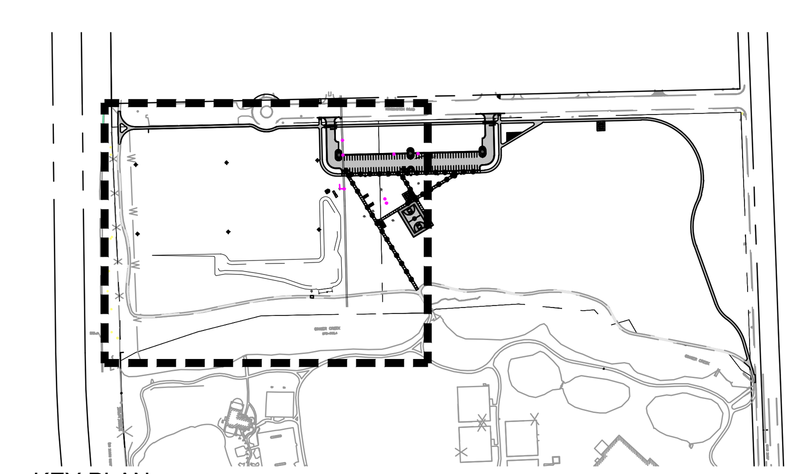
STANDARD SEED AND BLANKET

ATHLETIC SEED AND BLANKET

LANDSCAPE NOTES:

1. SEED LIMIT LINE IS APPROXIMATE. RESTORE TO LIMITS OF DISTURBANCE. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 6" DEPTH), FERTILIZER, PERMANENT GRASS SEEDING AND BLANKET AS SHOWN.
2. CONTRACTOR RESPONSIBLE TO RESTORE ALL AREAS DISTURBED BY CONSTRUCTION, OUTSIDE SCOPE LIMIT, TO EXISTING CONDITION.
3. ALL PROPOSED PLANTING BED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL (MIN. 10" DEPTH) PRIOR TO PERENNIAL AND SHRUB INSTALLATION.
4. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES NOT SHOWN ON THE PLANS TO BE SAVED FROM DAMAGE DUE TO HIS OPERATIONS. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING AS SHOWN ON PLANS AND DETAILS PRIOR TO BEGINNING WORK.
5. 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.
6. 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.
7. ALL PLANTING BEDS WILL RECEIVE 3" PREMIUM DOUBLE SHREDDED HARDWOOD BARK. GROUNDCOVERS SHALL RECEIVE 1-1/2" CAREFULLY PLACED AROUND BASE OF PLANT.
8. TREES PLACE IN TURF AREAS WILL HAVE 6' DIA. MULCH RING WITH 3" DEEP SPADE CUT EDGE.
9. ALL BEDLINES SHALL BE SPADE CUT TO A MIN. DEPTH OF 3". CURVED BEDLINES TO BE SMOOTH AND NOT SEGMENTED.
10. EXISTING TURF IN PROPOSED PLANTING AREAS SHALL BE STRIPPED AND REMOVED.
11. ALL PERENNIAL & SHRUB BEDS TO HAVE AMENDED TOPSOIL. 2" MINIMUM ORGANIC MATTER SHALL BE TILLED INTO THE TOP 10" OF TOPSOIL. THOROUGHLY TILL TO BREAK UP CLUMPS AND SPREAD EVENLY OVER SURFACE.
12. TREES SHALL BE INSTALLED A MINIMUM OF 10' HORIZONTALLY FROM NEAREST LIGHT POLE.
13. TREES SHALL BE INSTALLED A MINIMUM OF 5' HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES.
14. 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.
15. ANY AREA COMPACTED BY CONSTRUCTION TRAFFIC SHALL BE TILLED OR RESTORED TO ALLOW FOR SUITABLE PLANTING CONDITIONS.
16. THE CROWNS AND ROOT OF TREES WHICH ARE TO BE PRESERVED IN THE PROJECT AREA, BUT WHICH COULD BE NEGATIVELY AFFECTED DURING THE CONSTRUCTION PROCESS, SHALL BE PRUNED BY A QUALIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI 2100 CODE.

NOTE: PLANT MATERIAL WILL BE SUPPLIED AND DELIVERED TO THE SITE BY THE OWNER.



KEY PLAN

NORTH

GRAPHIC SCALE

50 0 25 50 100

1 INCH = 50 FEET

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Wight

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

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Aurora, IL 60506
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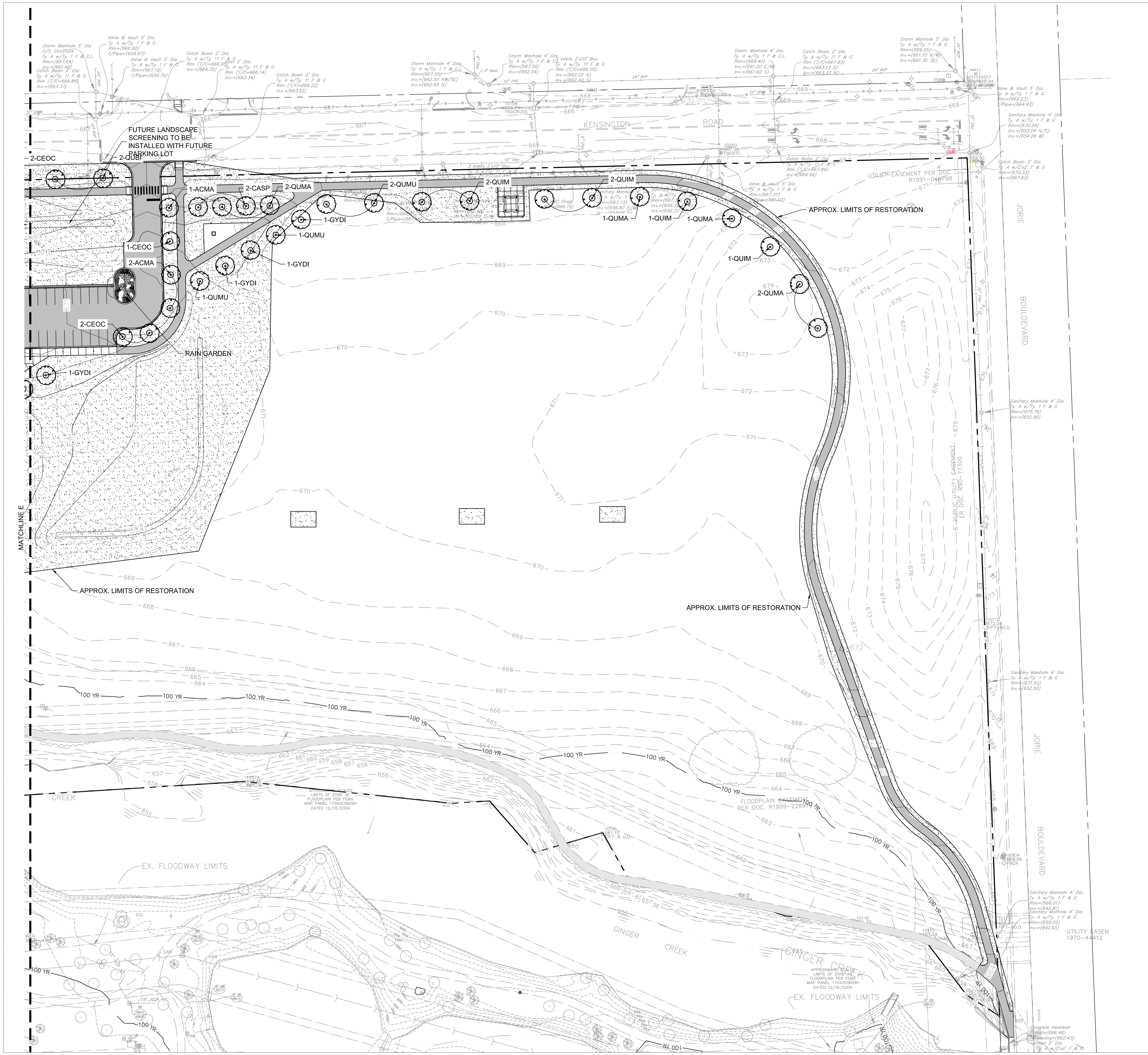
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LANDSCAPE PLAN WEST

Project Number: 190083
Drawn By: RA/LR
Sheet:

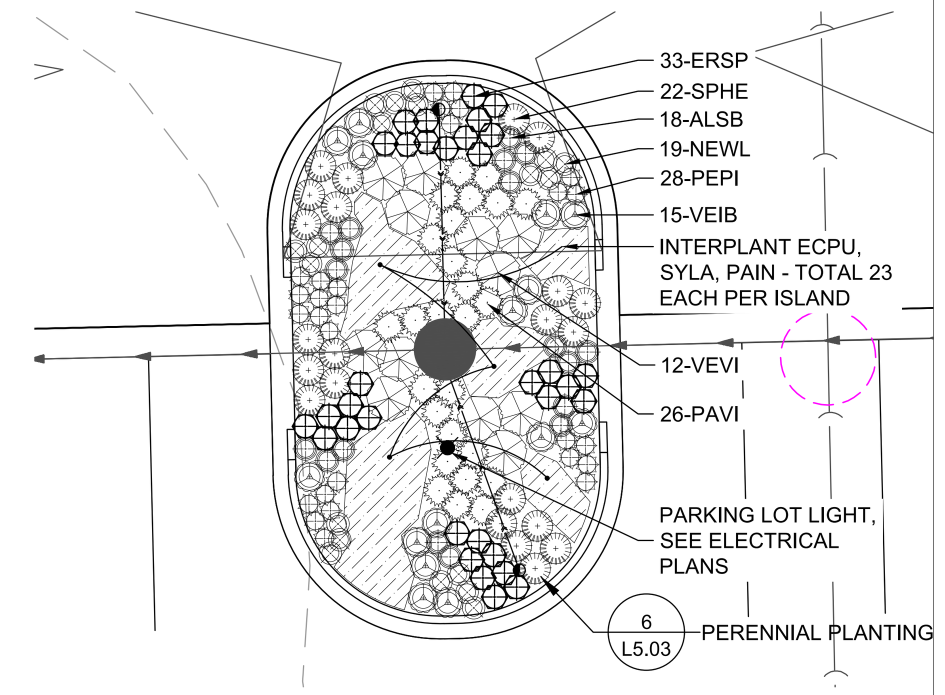
L4.01



LEGEND

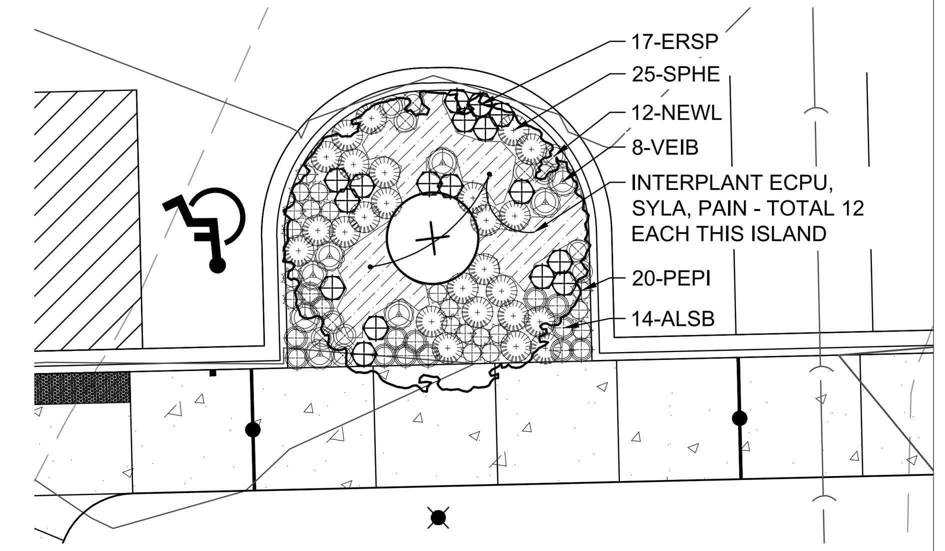
STANDARD SEED AND BLANKET

ATHLETIC SEED AND BLANKET



1 FULL ISLAND RAIN GARDEN PLANTING PLAN (3 LOCATIONS)

SCALE: 1" = 10'



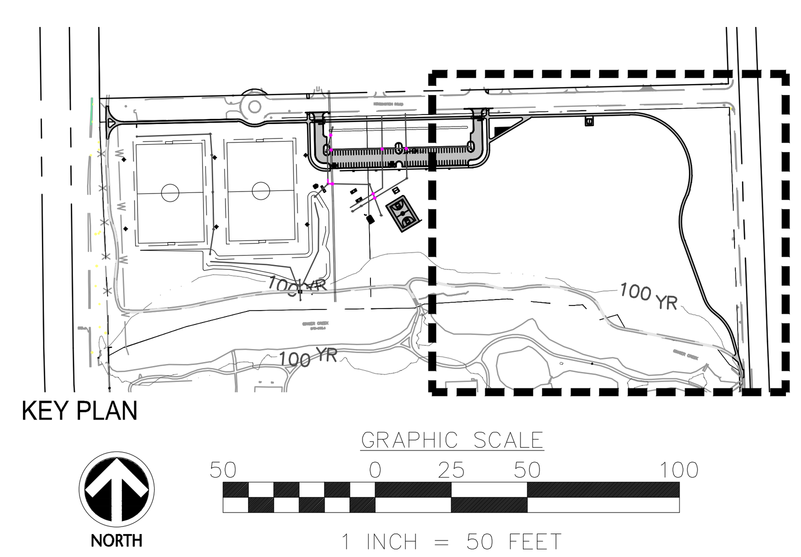
2 HALF ISLAND PLANTING PLAN

SCALE: 1" = 10'

PLANT MATERIAL LIST

Quantity	Code	Size	Botanic Name	Common Name
SHADE TREES				
13	ACMA	2.5" CAL	Acer x freemanii 'Marmo'	Marmo Maple
5	CASP	2.5" CAL	Catalpa speciosa	Northern Catalpa
9	CEOC	2.5" CAL	Celtis occidentalis	Hackberry
4	GYDI	2.5" CAL	Gymnocladus dioica	Kentucky Coffeetree
2	LITU	2.5" CAL	Liriodendron tulipifera	Tulip Tree
8	QUBI	2.5" CAL	Quercus bicolor	Swamp White Oak
13	QUIM	2.5" CAL	Quercus imbricaria	Shingle Oak
9	QUMA	2.5" CAL	Quercus macrocarpa	Bur Oak
11	QUMU	2.5" CAL	Quercus muehlenbergii	Chinkapin Oak
EVERGREEN TREES				
7	TADI	6' HT	Taxodium distichum 'Shawnee Brave'	Shawnee Brave Bald Cypress
PERENNIALS / ORNAMENTAL GRASSES / GROUNDCOVERS				
68	ALSB	#1	Allium 'Summer Beauty"	Summer Beauty Onion
81	ECPU	#1	Echinacea purpruea	Purple Coneflower
116	ERSP	#1	Eragrostis spectablis	Purple Lovegrass
69	NEEB	#1	Nepeta racemosa 'Walker's Low'	Walker's Low Catmint
78	PAVI	#1	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Red Switch Grass
81	PAIN	#1	Parthenium integrifolium	Wild Quinine
104	PEPI	#1	Pennisetum alopecuroides 'Piglet'	Piglet Fountain Grass
91	SPHE	#1	Sporobolus heterolepis	Prairie Dropseed
81	SYLA	#1	Symphyotrichum laeve var. laeve	Smooth Blue Aster
53	VEIB	#1	Vernonia lettermannii 'Iron Butterfly'	Iron Butterfly Ironweed
36	VEVI	#1	Vernonicastrum virginicum	Culver's Root

NOTE: PLANT MATERIAL WILL BE SUPPLIED AND DELIVERED TO THE SITE BY THE OWNER.



KEY PLAN

OAK BROOK PARK DISTRICT 19 62

OAK BROOK PARK DISTRICT

Wight

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

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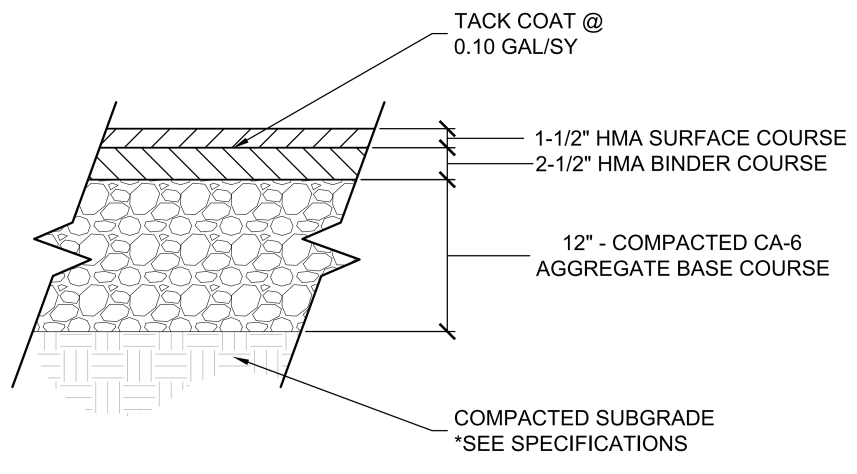
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

LANDSCAPE PLAN CENTRAL

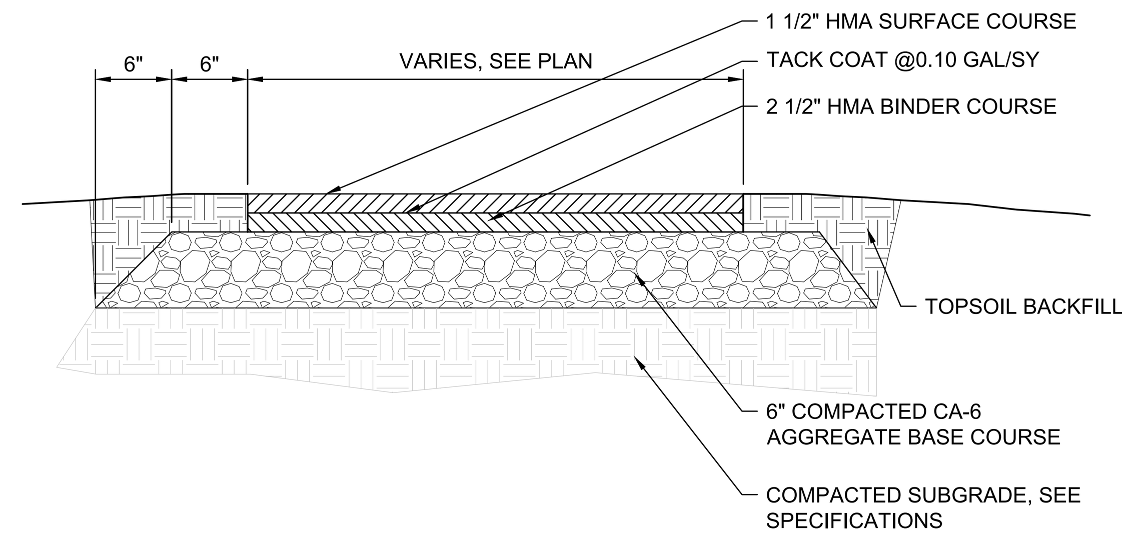
Project Number:
190083
Drawn By:
RA/LR
Sheet:

L4.02

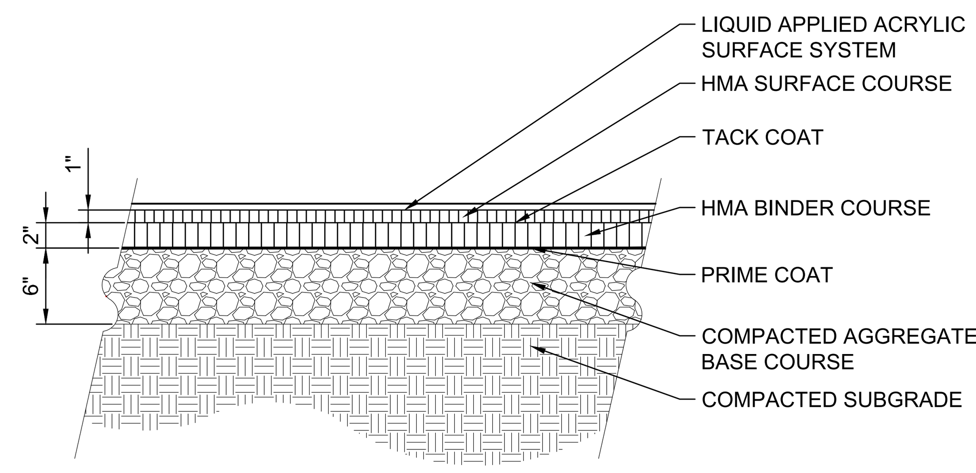


NOTES:
1. FOR UNSUITABLE SUBGRADES UNDERCUT 2 ADDITIONAL FOOT MAXIMUM.

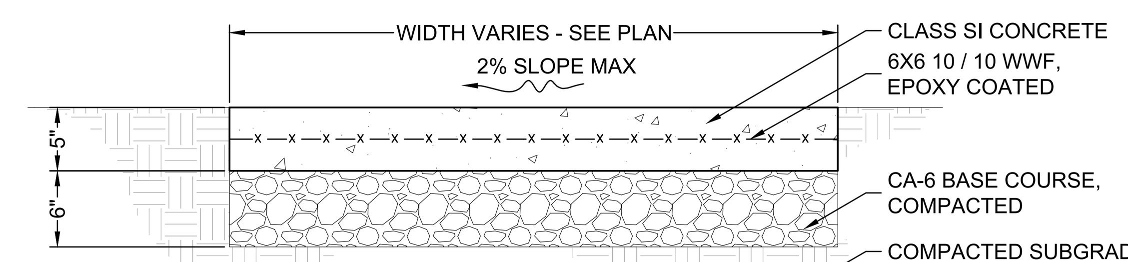
1 HMA PAVEMENT - VEHICULAR
SCALE: NTS



2 HMA PAVEMENT - PEDESTRIAN
SCALE: NTS

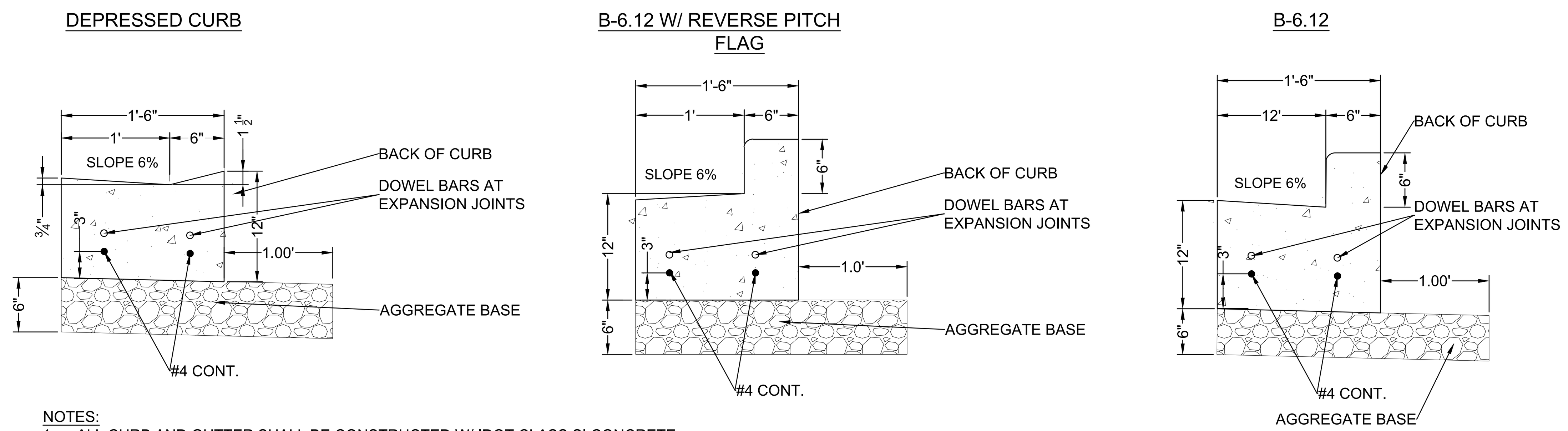


3 HMA PAVEMENT - BASKETBALL
SCALE: NTS



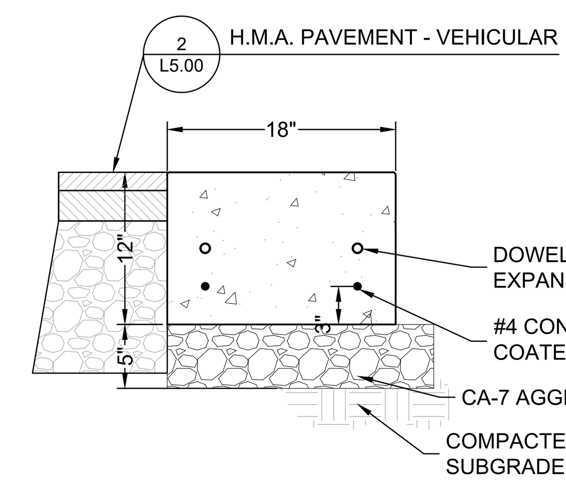
NOTES:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8".
3. REFER TO EXPANSION JOINT DETAIL
4. THE TRANSVERSE JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK, SHALL NOT BE 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.

4 CONCRETE PAVEMENT
SCALE: NTS



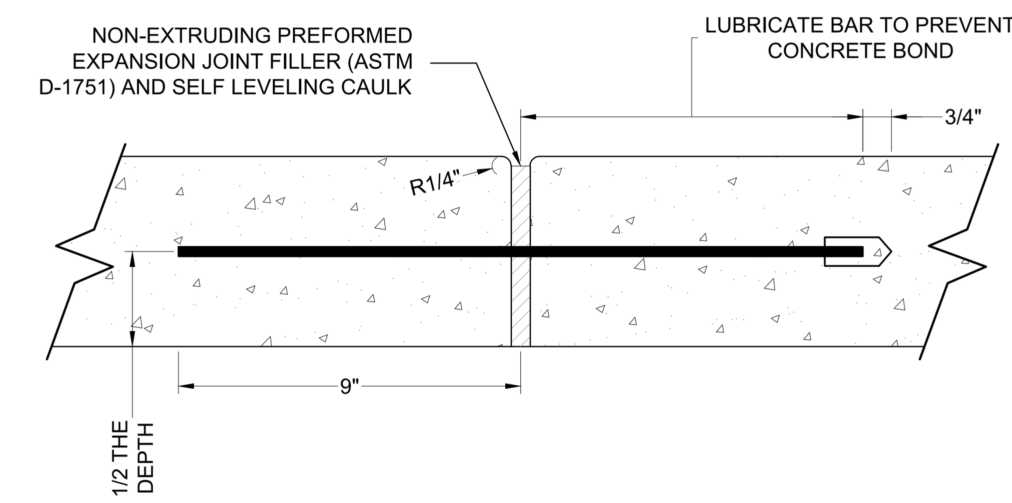
NOTES:
1. ALL CURB AND GUTTER SHALL BE CONSTRUCTED W/ IDOT CLASS SI CONCRETE.
2. REFER TO EXPANSION JOINT DETAIL.
3. CONSTRUCTION JOINTS SHALL BE AT 20 OR 25 FT. INTERVALS DEPENDING ON TYPE OF POUR. REFER TO EXPANSION JOINT DETAIL.
4. JOINTS SHALL BE CONSTRUCTED IN COMPLIANCE WITH IDOT STANDARDS & DETAILS.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

5 B6.12 CURB AND GUTTER
SCALE: NTS



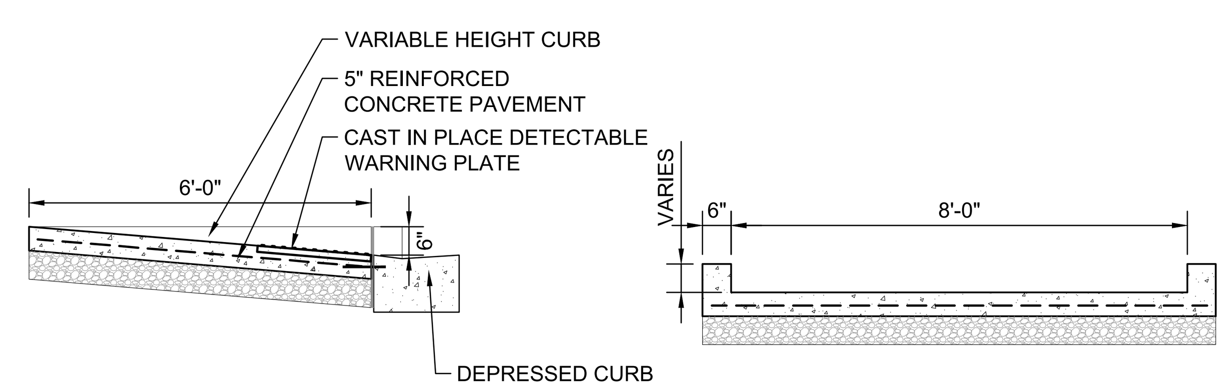
NOTES:
1. REFER TO B6.12 CURB AND GUTTER DETAIL FOR NOTES.
2. REFER TO EXPANSION JOINT DETAIL FOR NOTES.

6 FLUSH CURB
SCALE: NTS



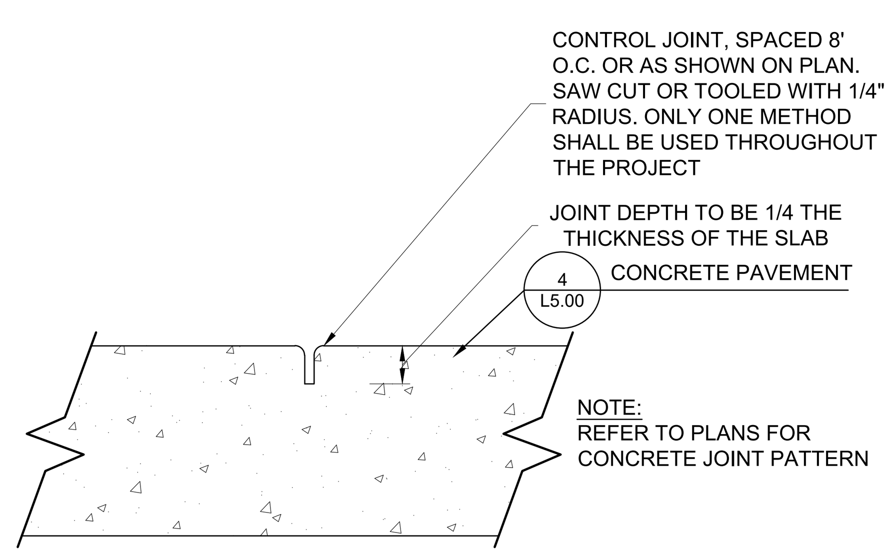
NOTES:
1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
2. EACH EXPANSION JOINT SHALL HAVE (2) $\frac{3}{4}$" DOWEL BARS, 18" LONG AND PROPERLY LUBRICATED, PLACED AT MID DEPTH.
3. EXPANSION JOINTS $\frac{3}{4}$" THICK SHALL BE WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE, AT 50 FT INTERVALS FOR HAND POURS AND 100 FT INTERVALS FOR SLIP OR MONOLITHIC POURS.
4. EXPANSION JOINTS, $\frac{1}{2}$" THICK SHALL BE AT EVERY P.C. & P.T. OF CURVATURE, 5 FT EACH SIDE OF STRUCTURES, AND AT END OF POURS.
5. PREFORMED EXPANSION JOINT 1/2" THICK SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES
6. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS AND WHERE THE SIDEWALK ABUTS A CURB WITH DOWELS 4' O.C. OFFSET FROM CONTROL JOINT

7 EXPANSION JOINT
SCALE: NTS

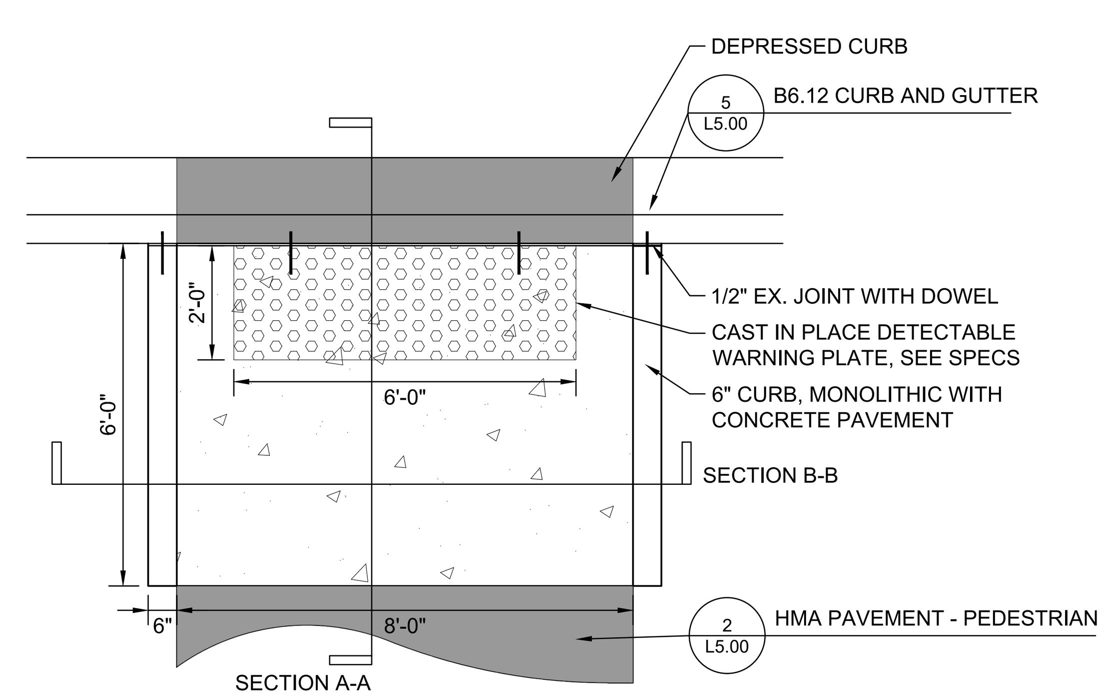


SECTION A-A

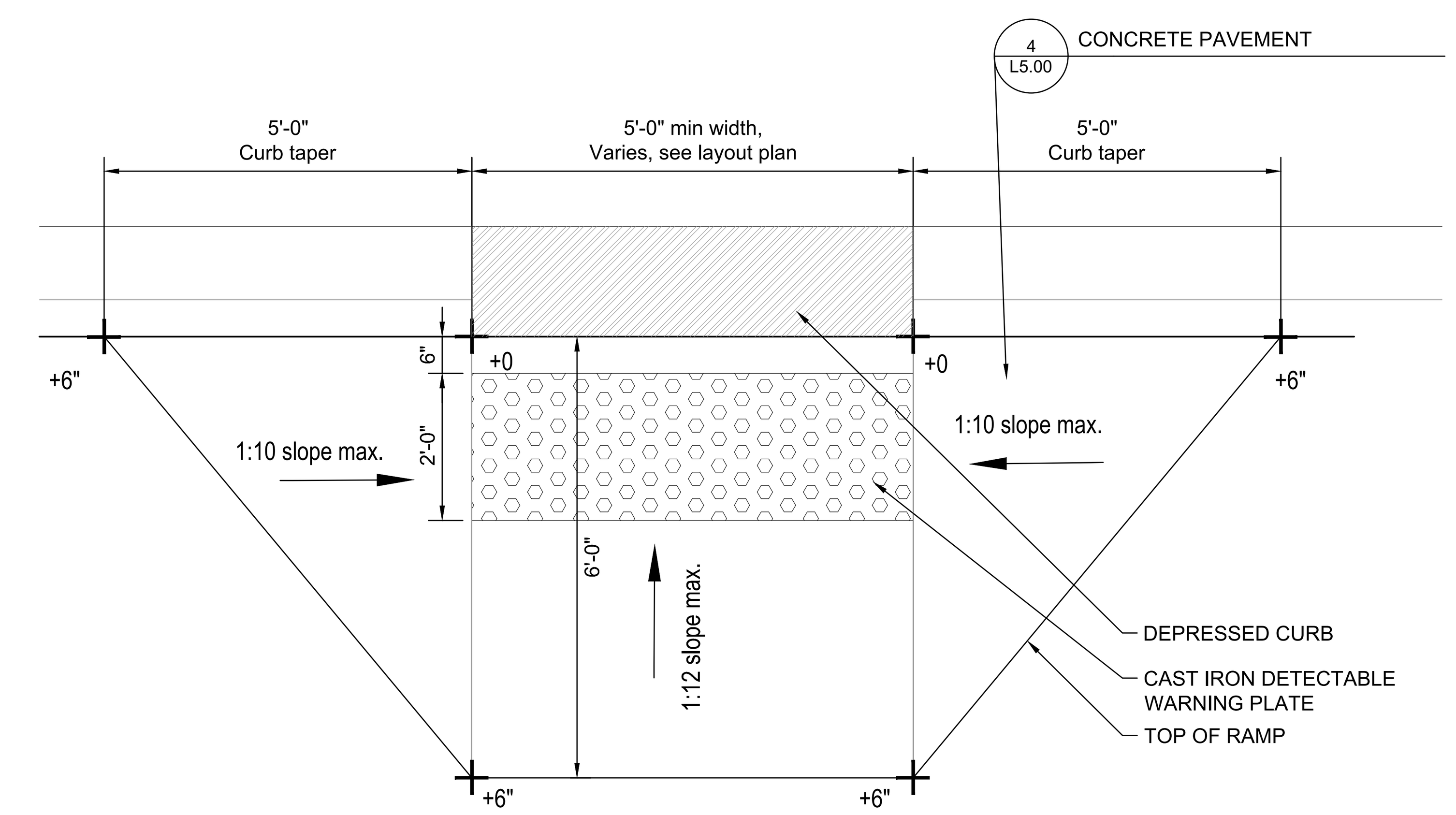
SECTION B-B



8 CONTROL JOINT
NTS



9 ADA RAMP 1
SCALE: 3/8" = 1'-0"



10 ADA RAMP 2
SCALE: 1/2"=1'-0"

OAK BROOK PARK DISTRICT 19 62

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DETAILS

Project Number: 190083
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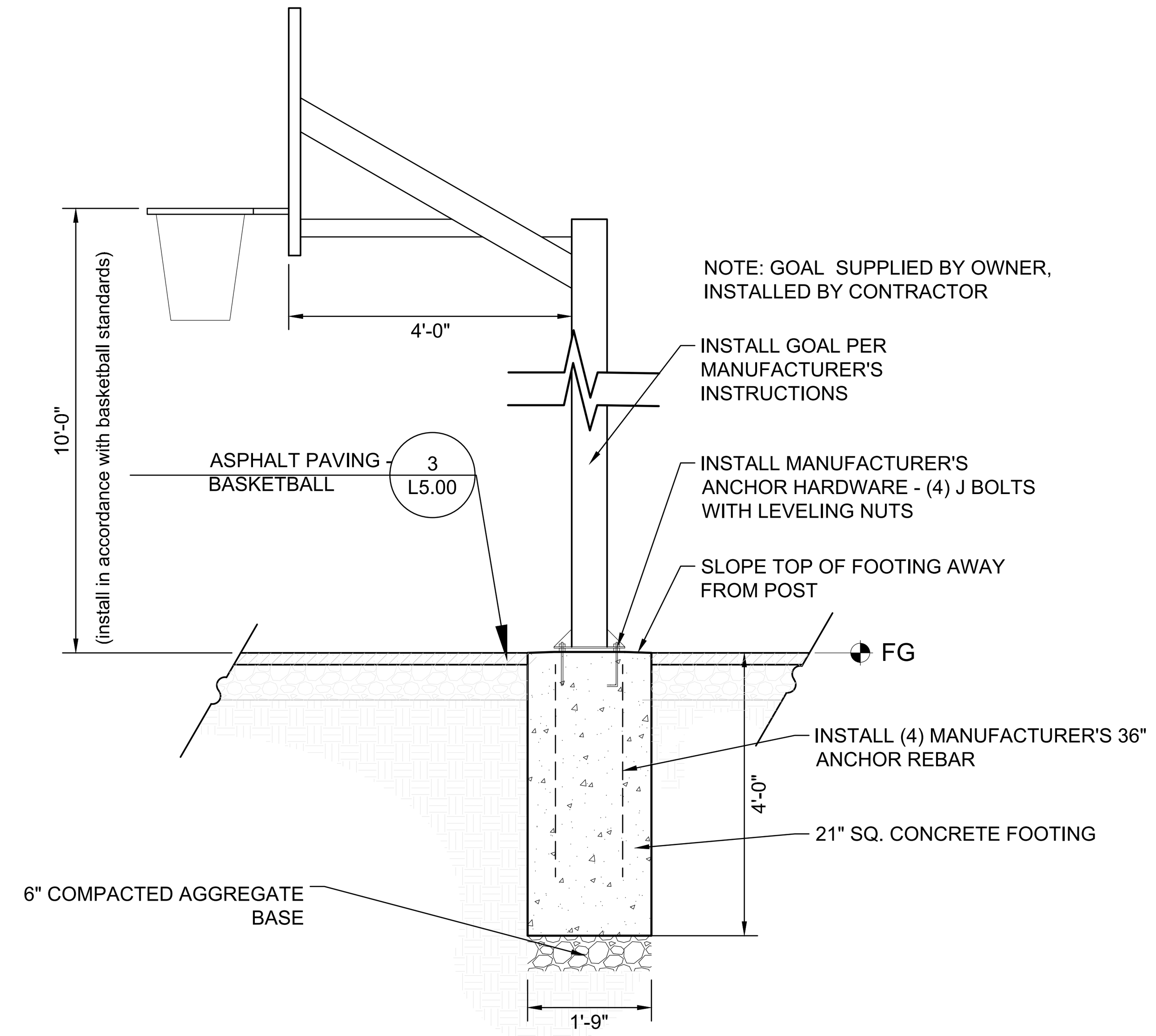
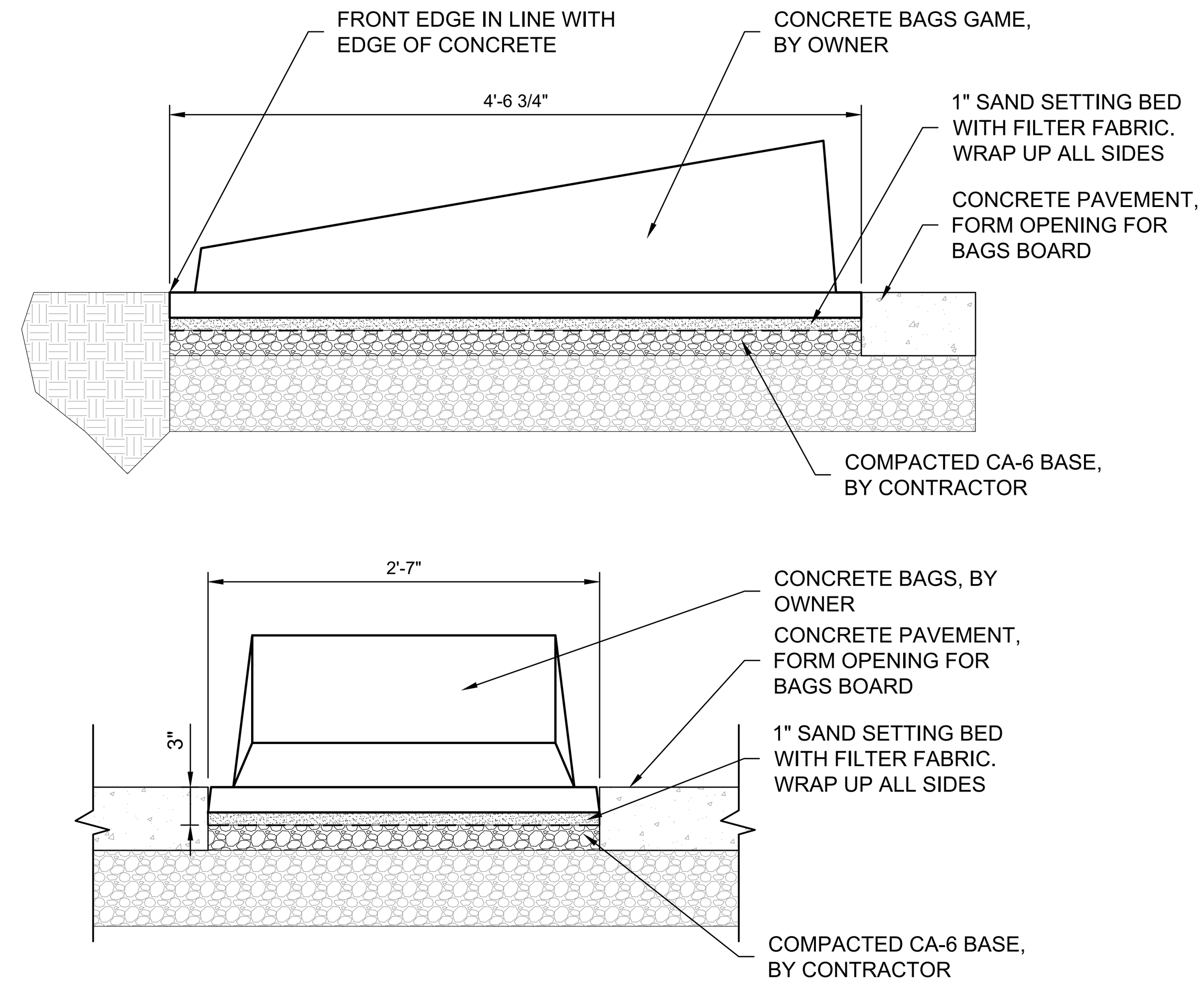
Sheet:

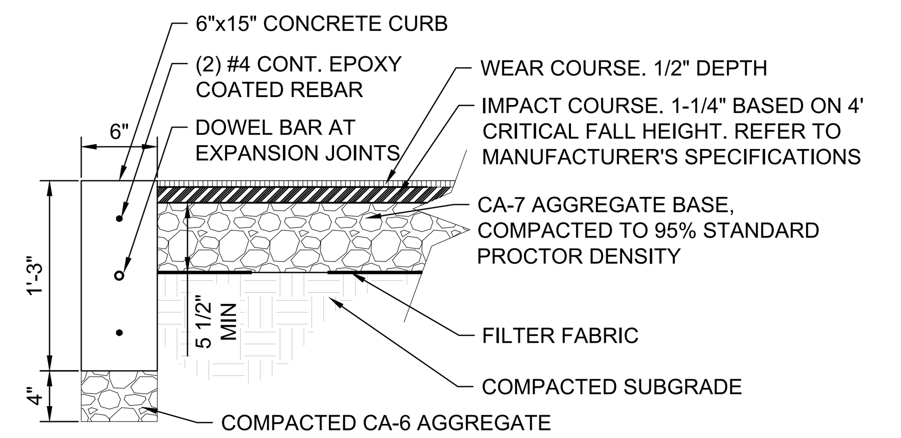
L5.00



1 BASKETBALL GOAL
SCALE: 1/2"=1'-0"

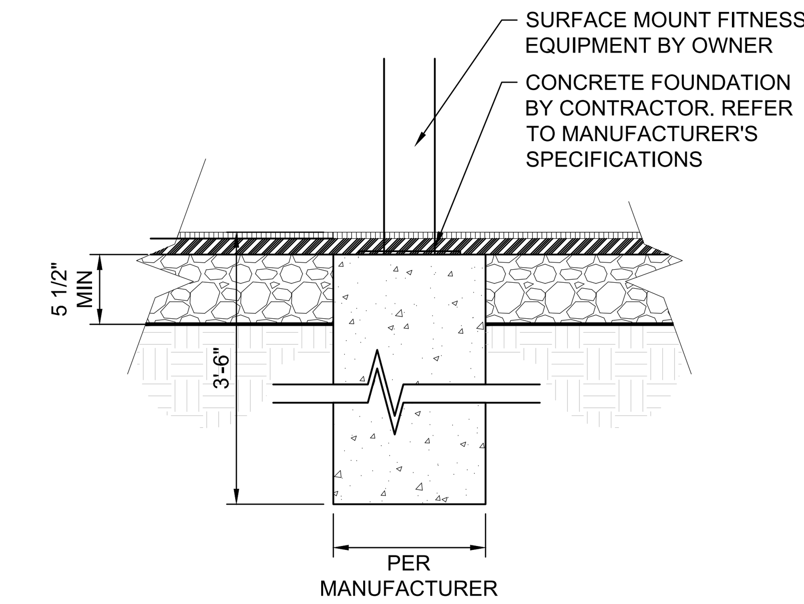


2 BAGS COURTS
SCALE: 1"=1'-0"



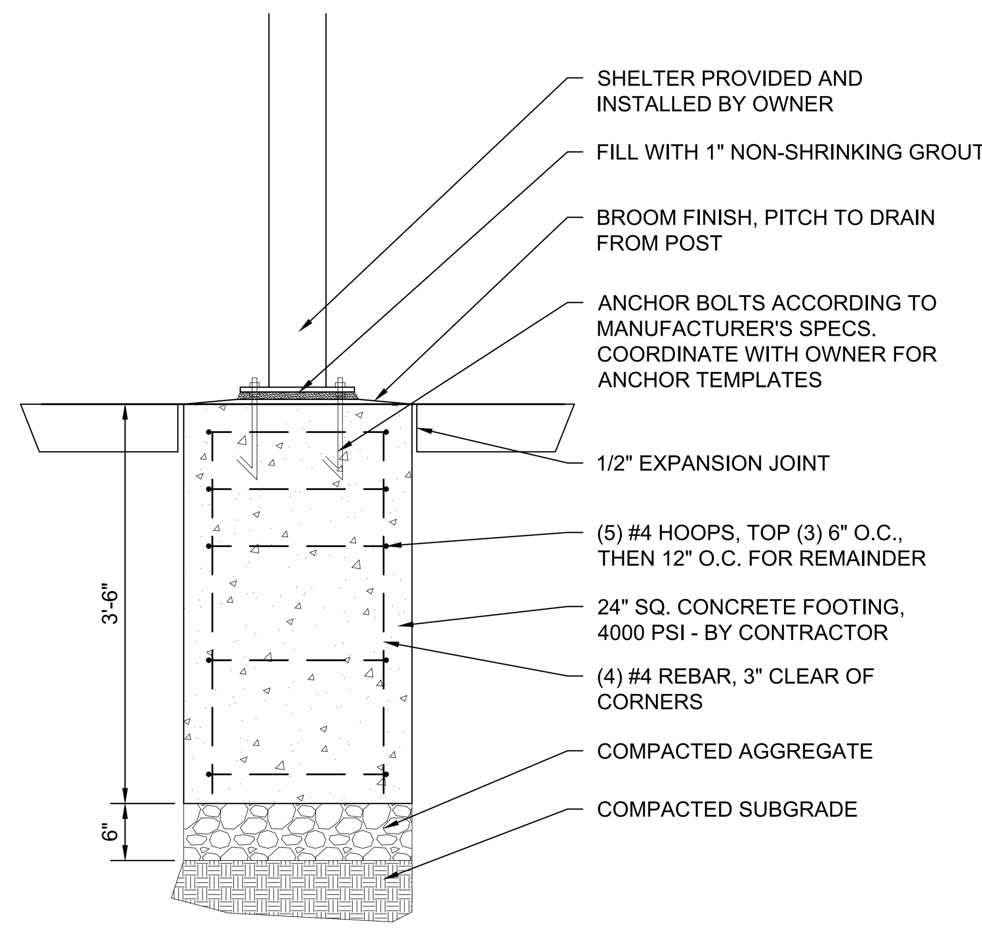
NOTE:
1. SUBGRADE PITCHED AT 0.5% MIN TOWARD UNDERDRAIN. SEE GRADING PLAN
2. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION

3 P.I.P. RUBBER SURFACE
NTS

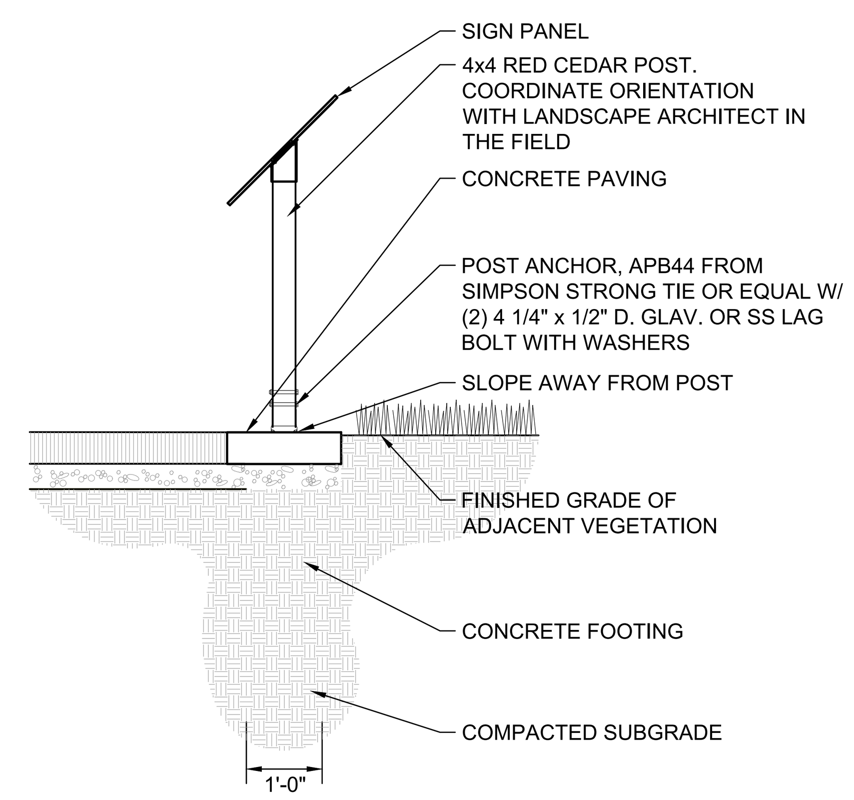


4 FITNESS FOOTING
1"=1'-0"

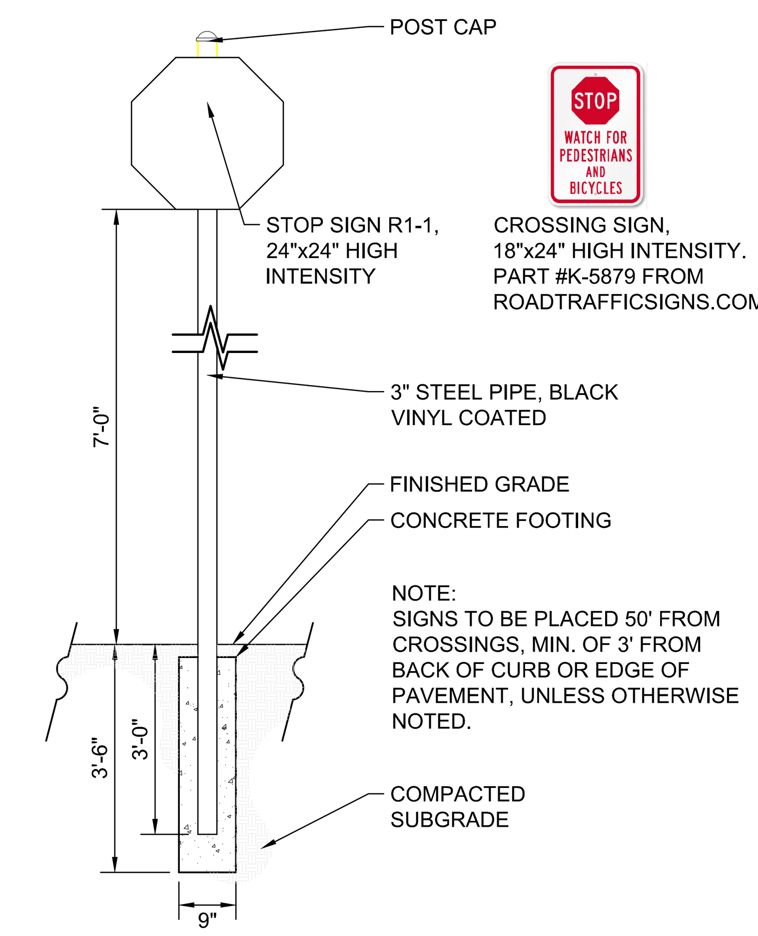
5 INTENTIONALLY OMITTED
3/4"=1'-0"



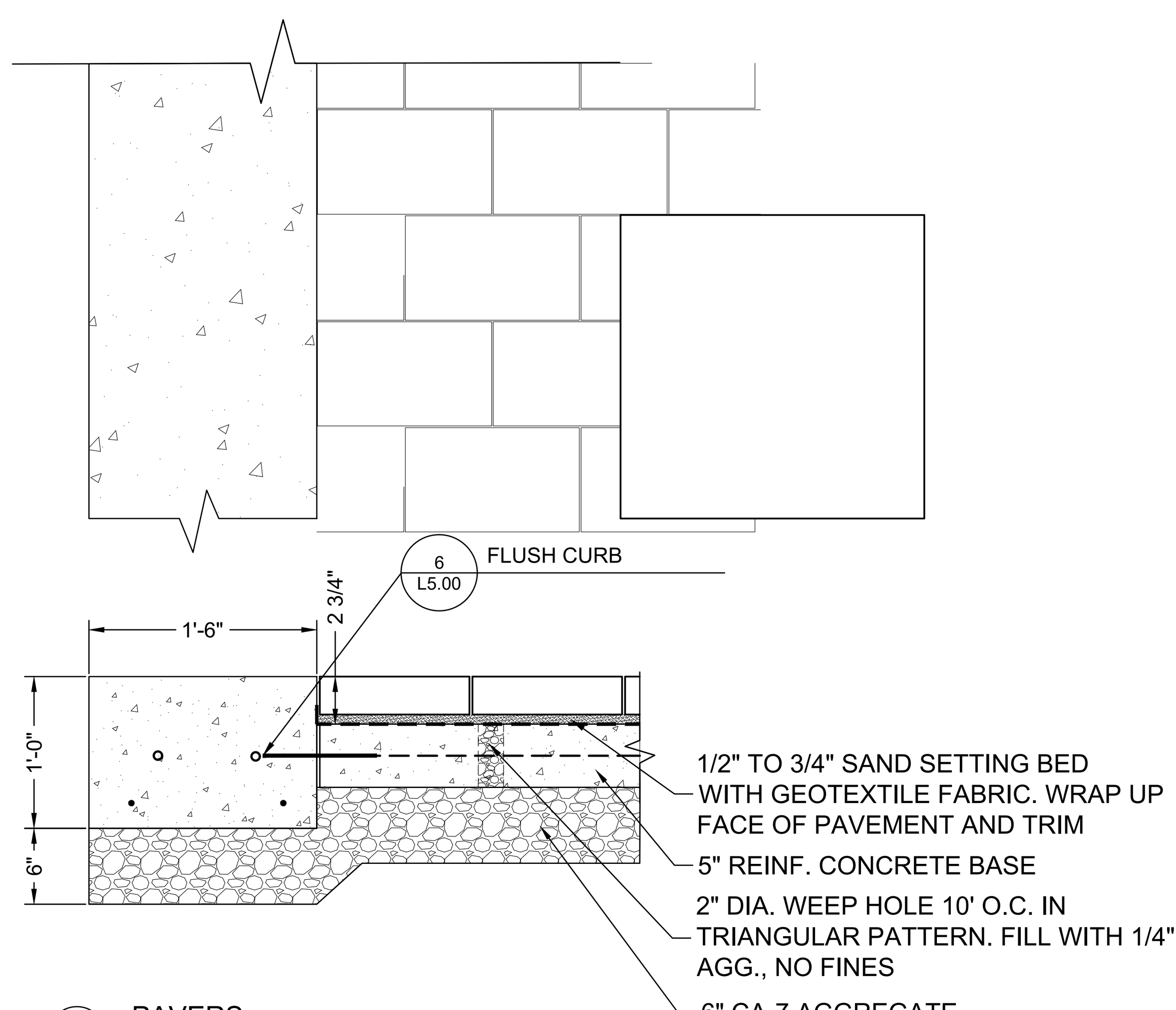
6 SHELTER FOOTING
NTS
(PRELIMINARY, INSTALL PER SHOP DRAWINGS)



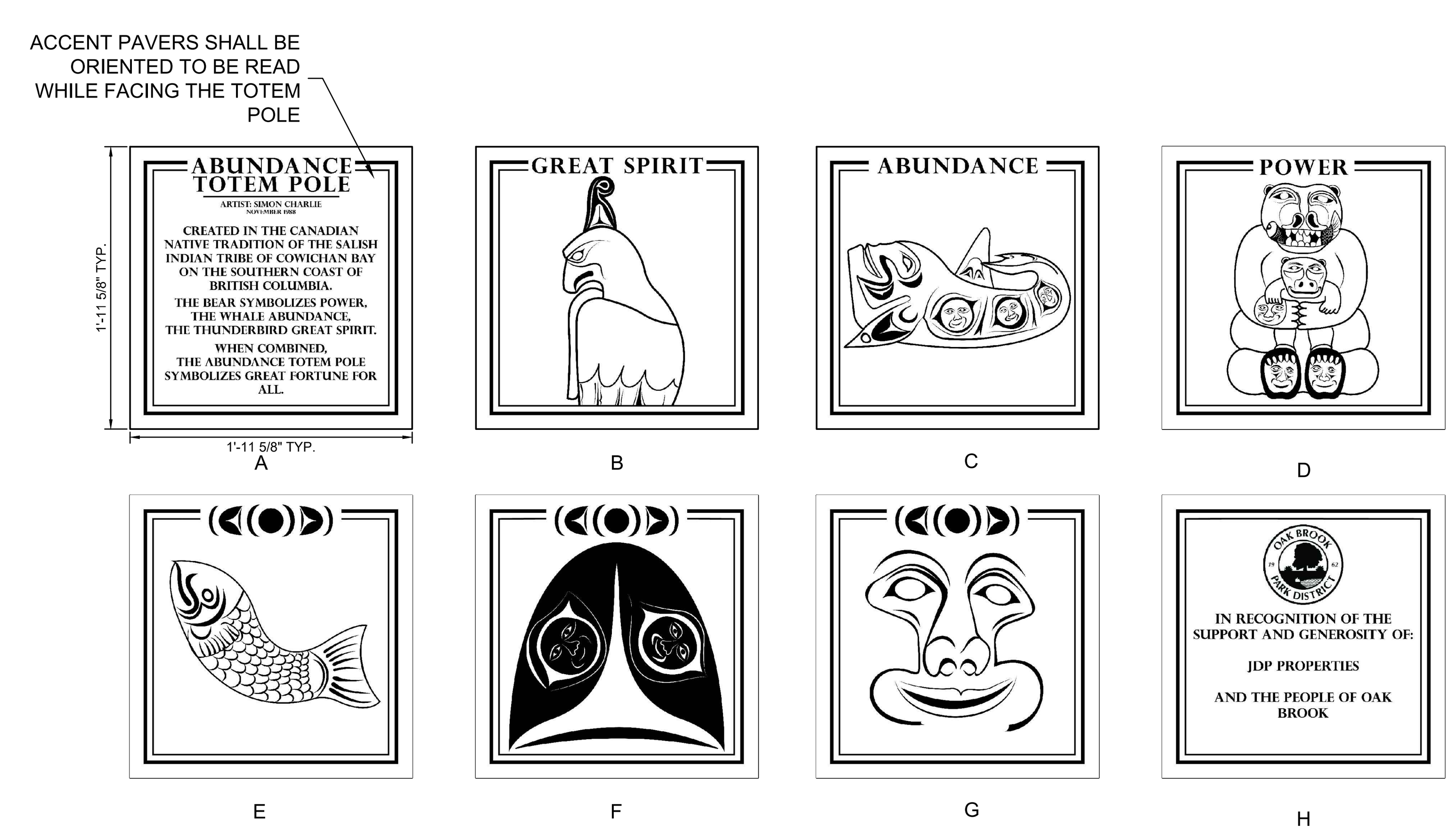
7 INTERPRETIVE SIGN FOOTING
SCALE: 1/2"=1'-0"



8 SIGN POST
SCALE: 1/2"=1'-0"



9 PAVERS
SCALE: 1"=1'-0"



10 ENGRAVED GRANITE ACCENT PAVERS
SCALE: 1"=1'-0"

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wightco.com
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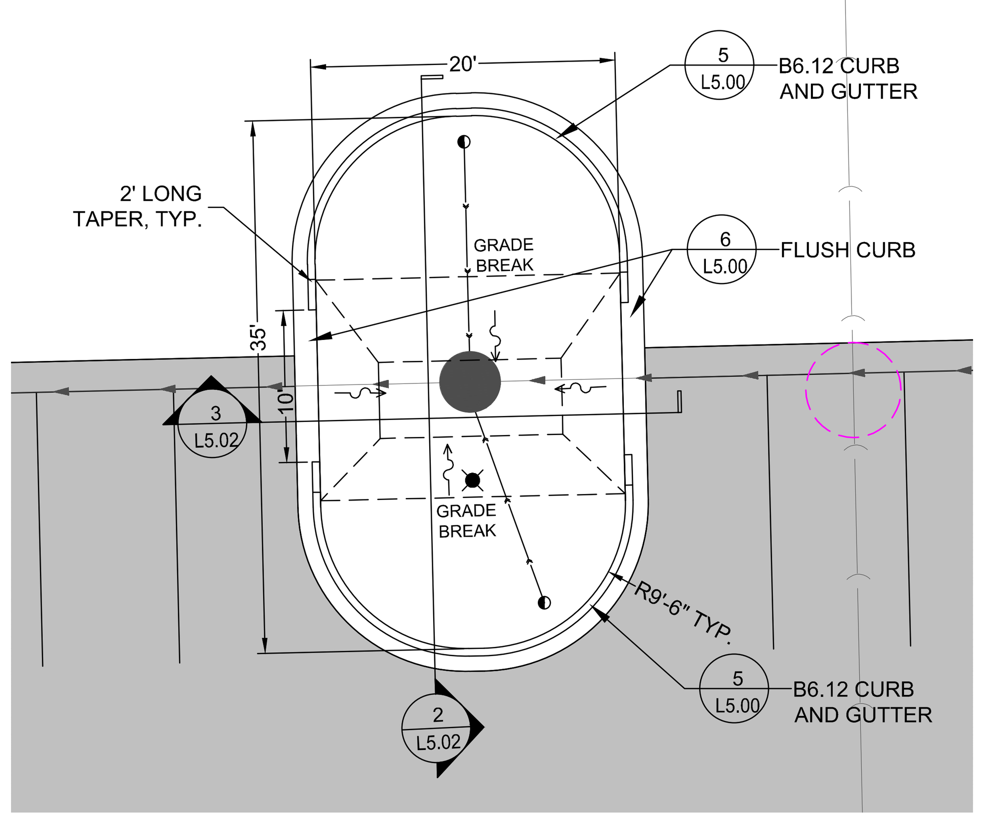
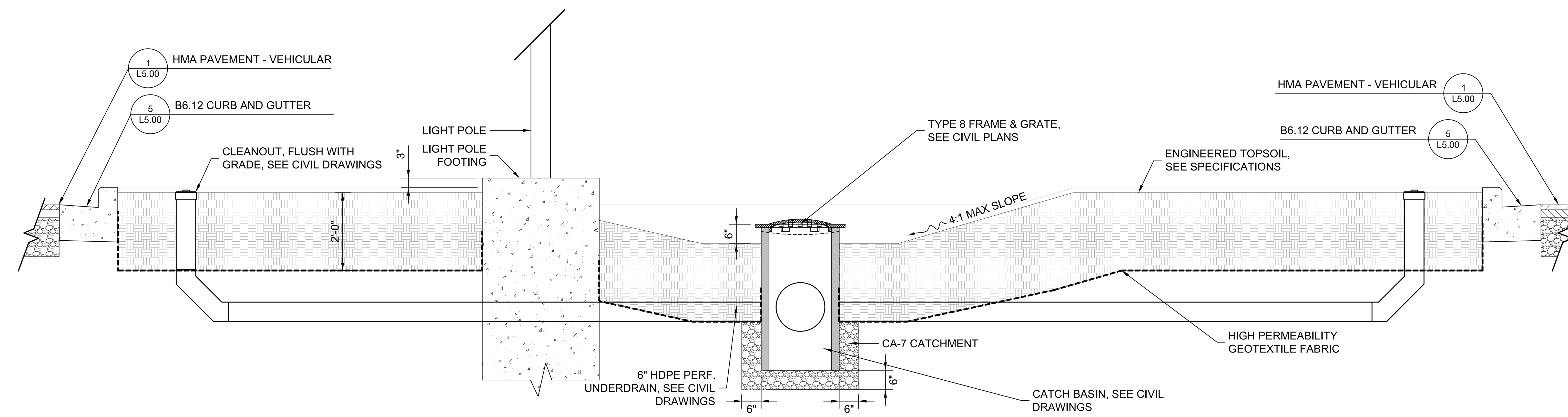
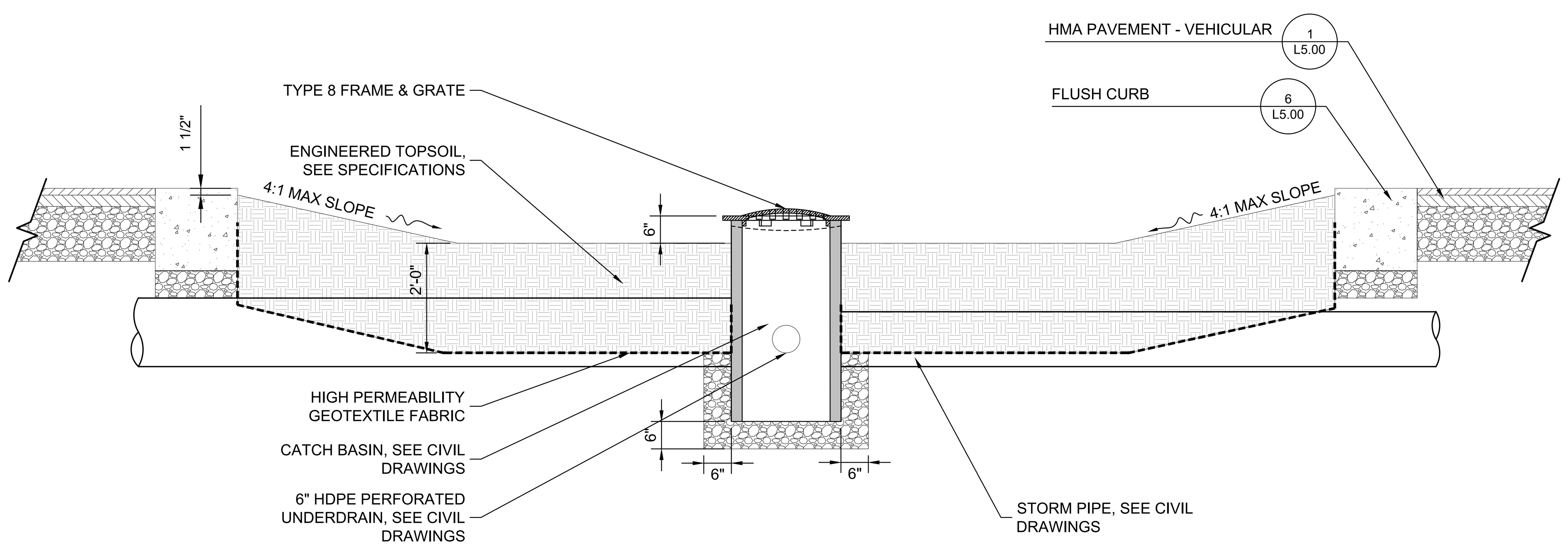
L5.01



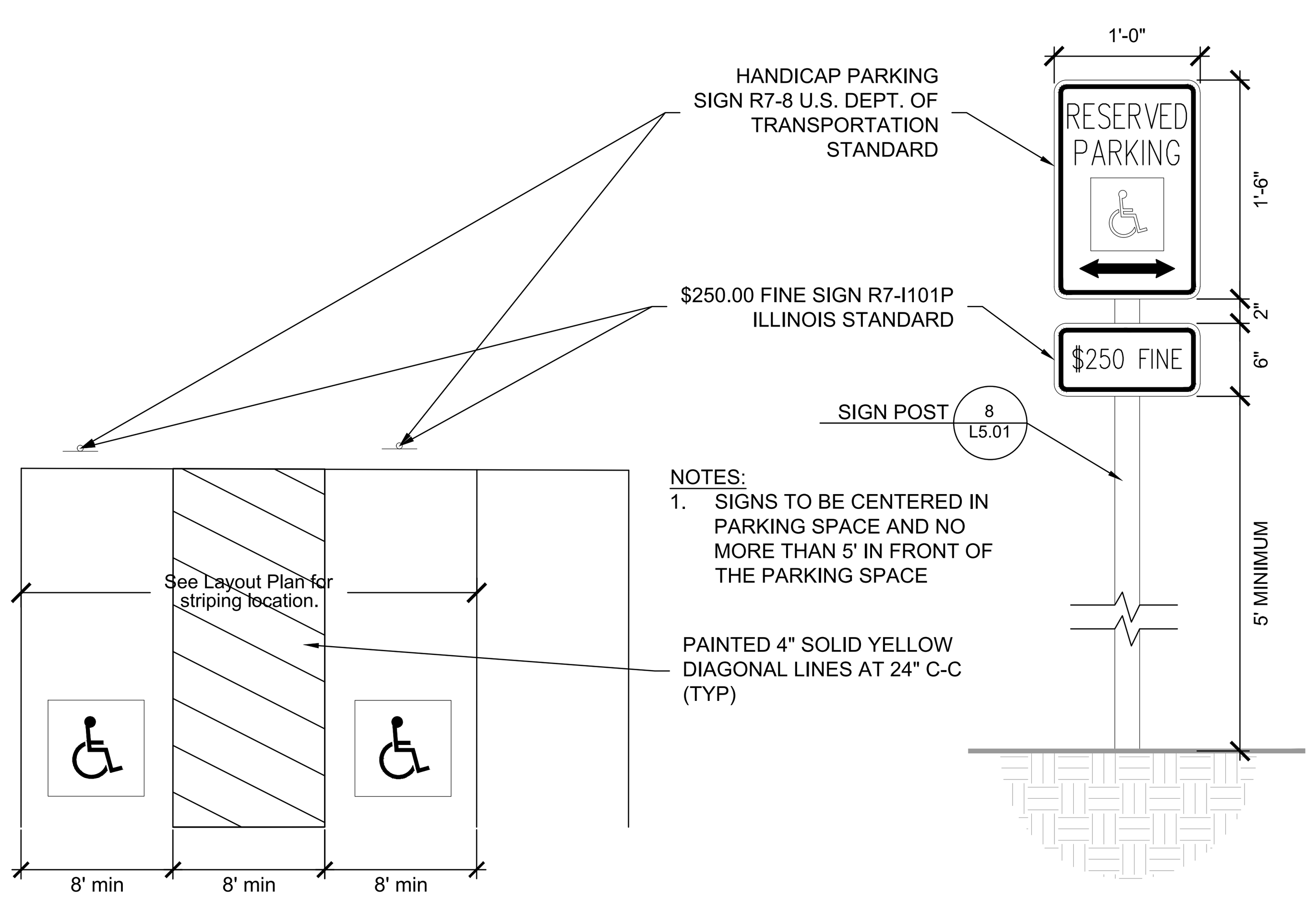
1 PARKING LOT ISLAND
SCALE: 1"=10'-0"



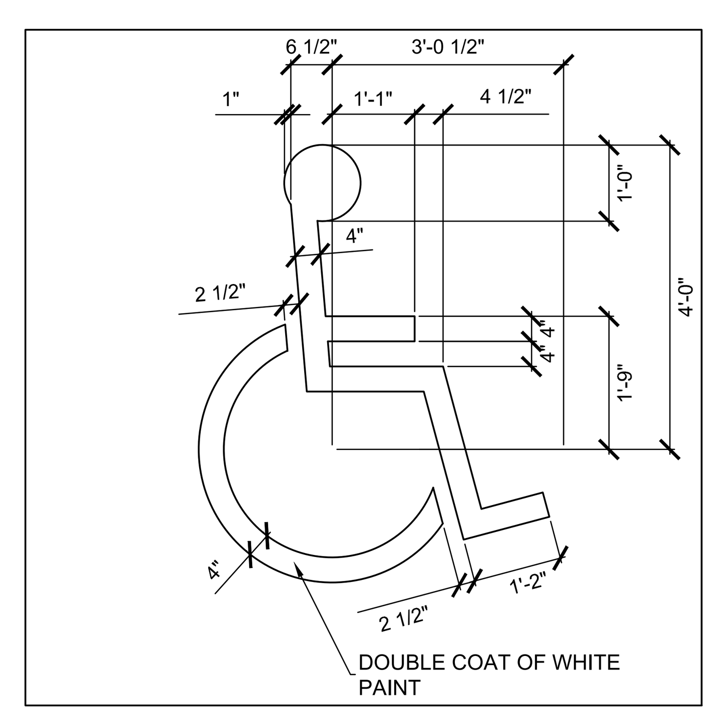
2 PARKING LOT ISLAND RAIN GARDEN SECTION A
SCALE: 1/2"=1'-0"



3 PARKING LOT ISLAND RAIN GARDEN SECTION B
SCALE: 1/2"=1'-0"

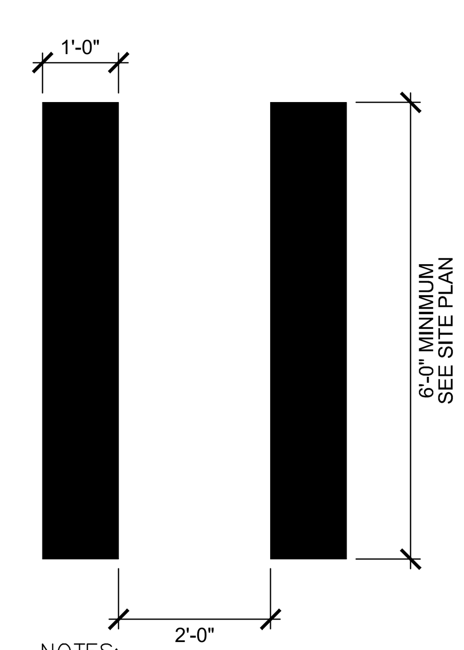


4 TYPICAL ADA PARKING SPACE AND SIGNAGE
NTS



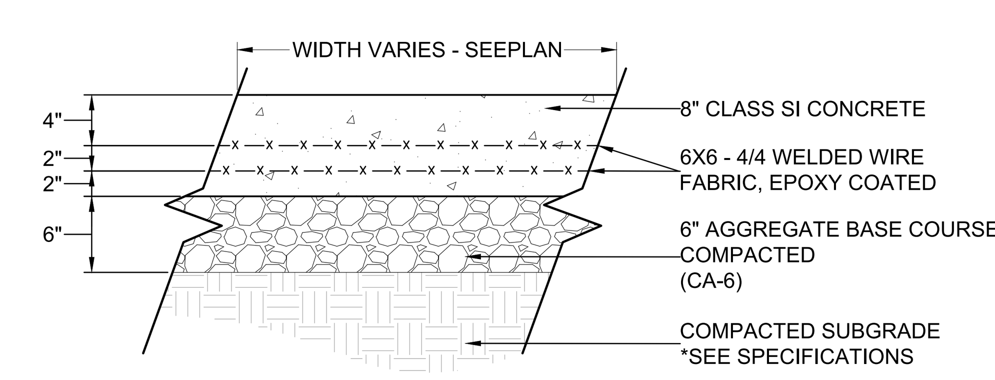
NOTES:
1. CENTER SYMBOL ON STALL
2. SYMBOLS SHALL BE PAINTED WITH WHITE TRAFFIC PAINT

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



NOTES:
1. MARKINGS SHALL BE PAINTED WITH WHITE TRAFFIC PAINT

6 CROSSWALK
SCALE: 1/2"=1'-0"



NOTES:
1. PROVIDE CONTRACTION JOINT EVERY 10' O.C.
2. PROVIDE EXPANSION JOINT AT LOCATIONS WHERE NEW CONCRETE POURS BEGIN/END.

7 HEAVY DUTY CONCRETE PAVEMENT
SCALE: 1"=1'-0"

S:\Darien\Oak Brook Park District\01\11 Drawings\02 CD\190083 Autumn Oaks-Central Park\190083_L5.00 DETAILS.dwg ralexander Mar 16, 2020 2:46:46 pm

OAK BROOK PARK DISTRICT

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/18/2020
1	Revised for Village comments	02/21/2020
	ISSUED FOR PERMITS	02/04/20
	ISSUED FOR PERMITS	11/08/19

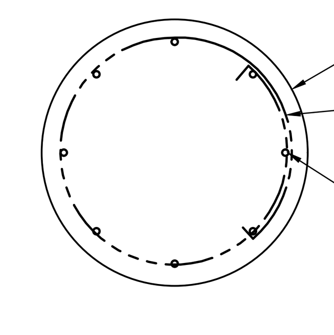
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

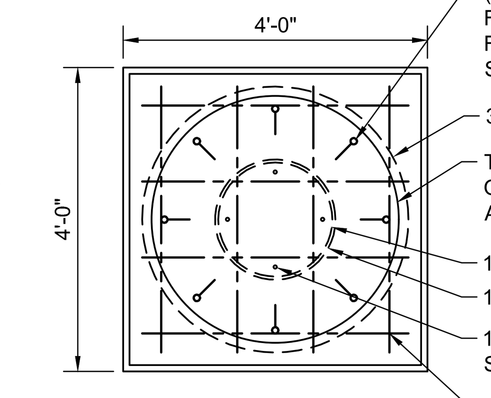
DETAILS

Project Number:
190083
Drawn By:
RA
Sheet:

L5.02



PIER DETAIL



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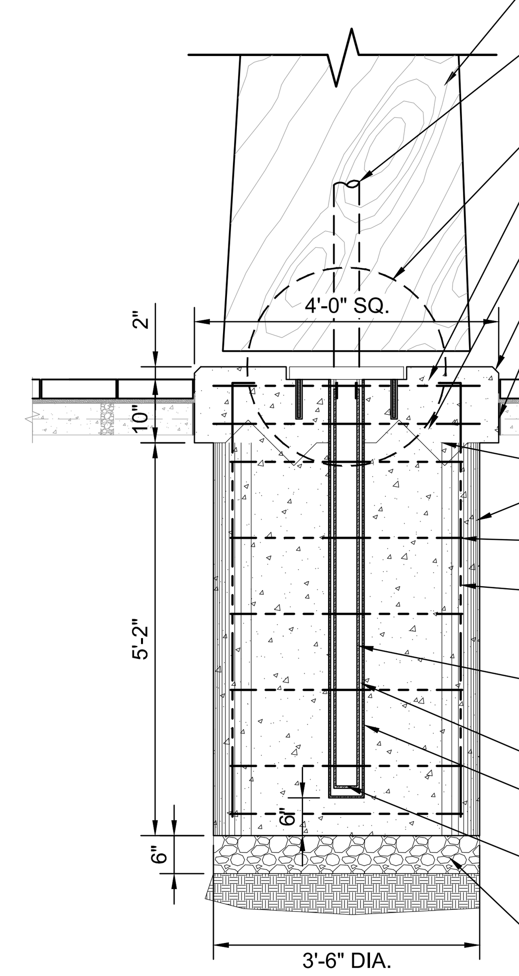
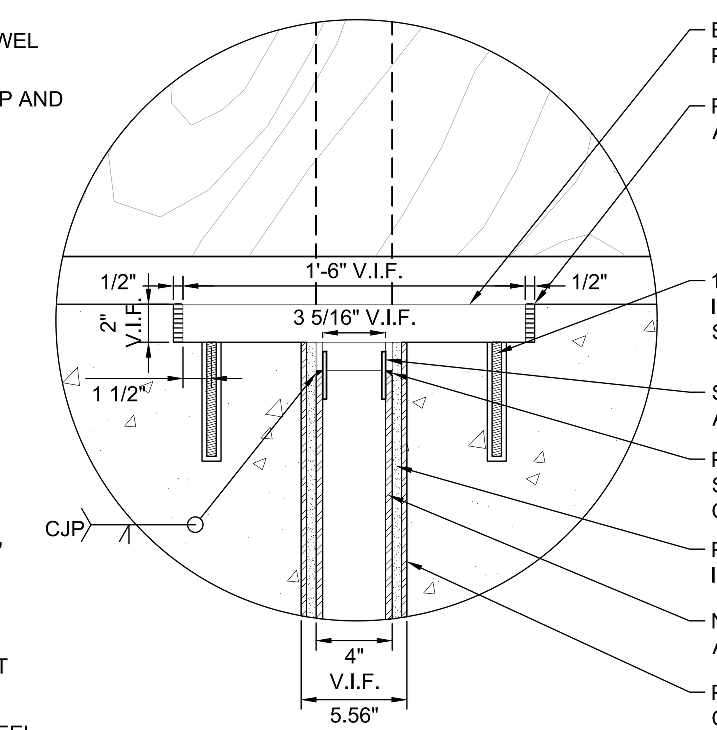
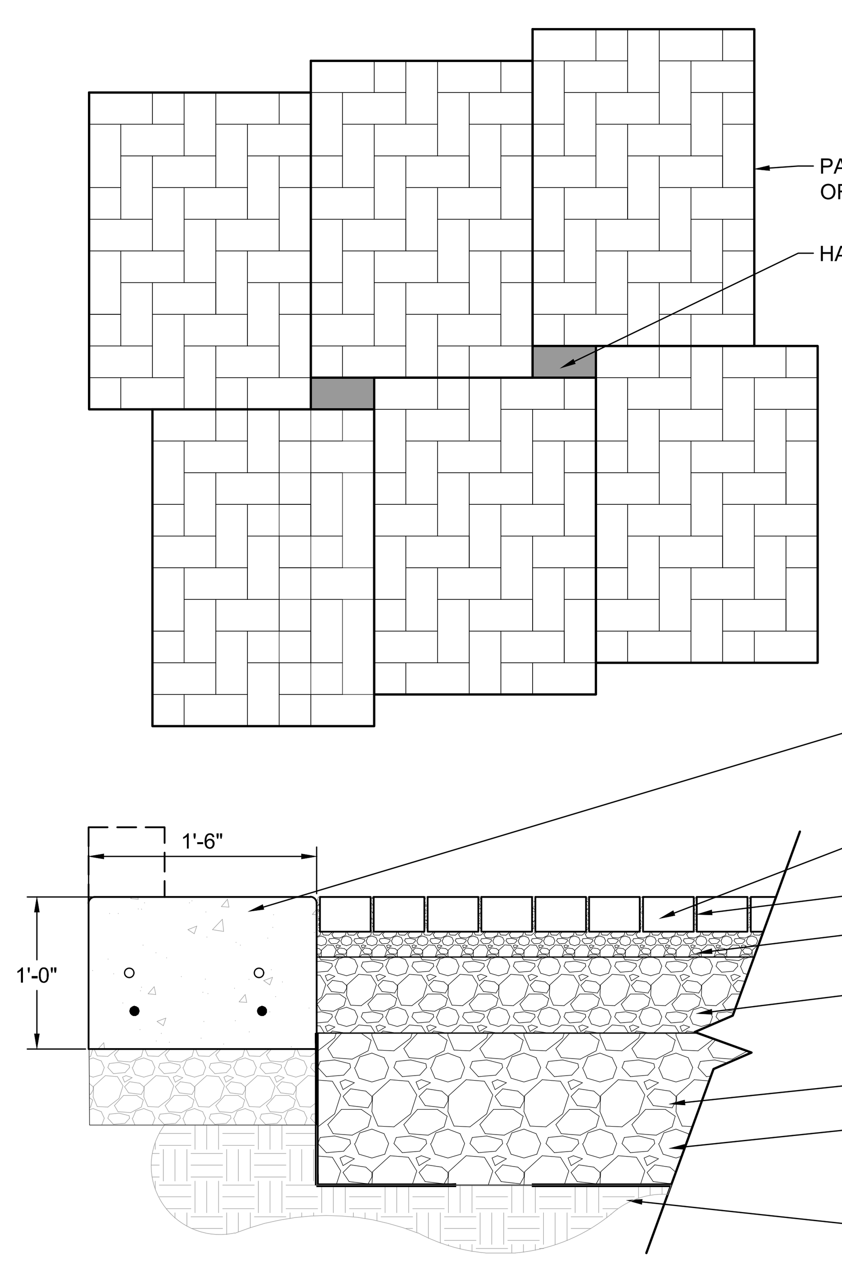


1 TOTEM POLE
SCALE: 1/2"=1'-0"

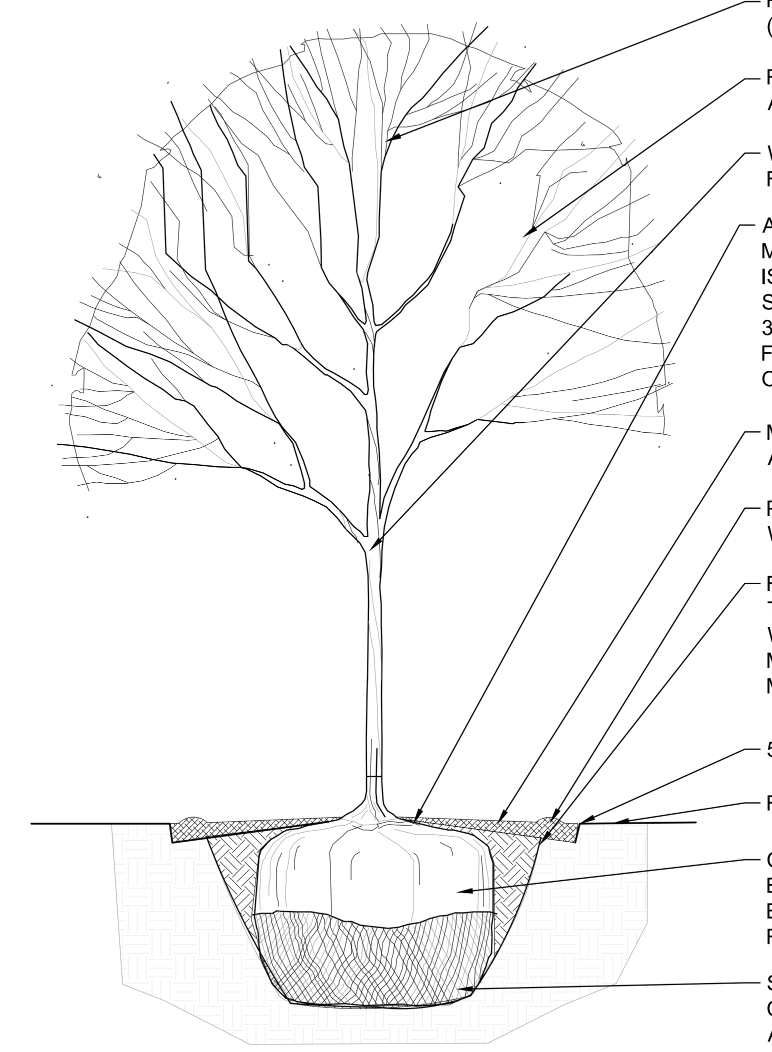


2 TOTEM POLE BASE PLATE
SCALE: 1-1/2"=1'-0"

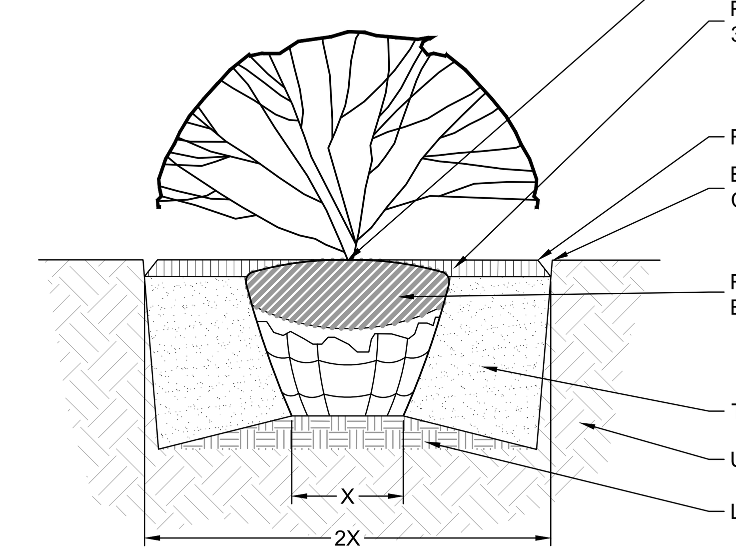


NOTE: SUBGRADE PITCHED AT 1.0% MIN. TO UNDERDRAIN. SEE GRADING PLAN

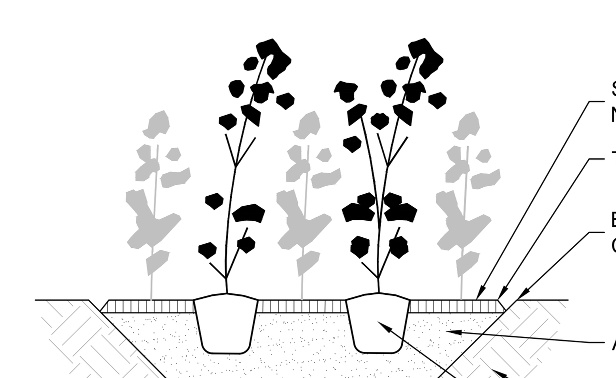
3 ALTERNATE: PERMEABLE PAVERS
SCALE: 1"=1'-0"



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



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



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

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Wight & Company
wightco.com
2500 North Frontage Road
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CENTRAL PARK NORTH FIELDS PHASE 1

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L5.03

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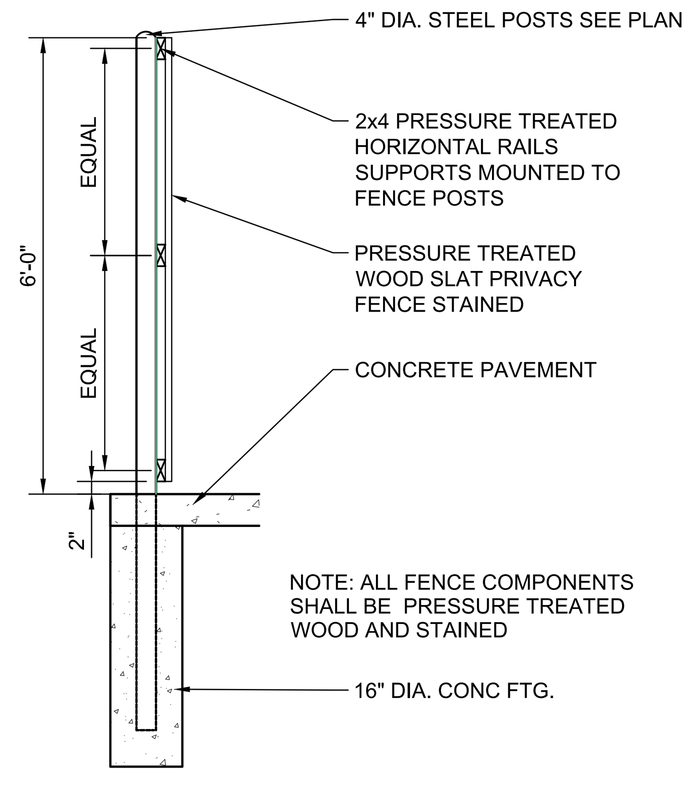
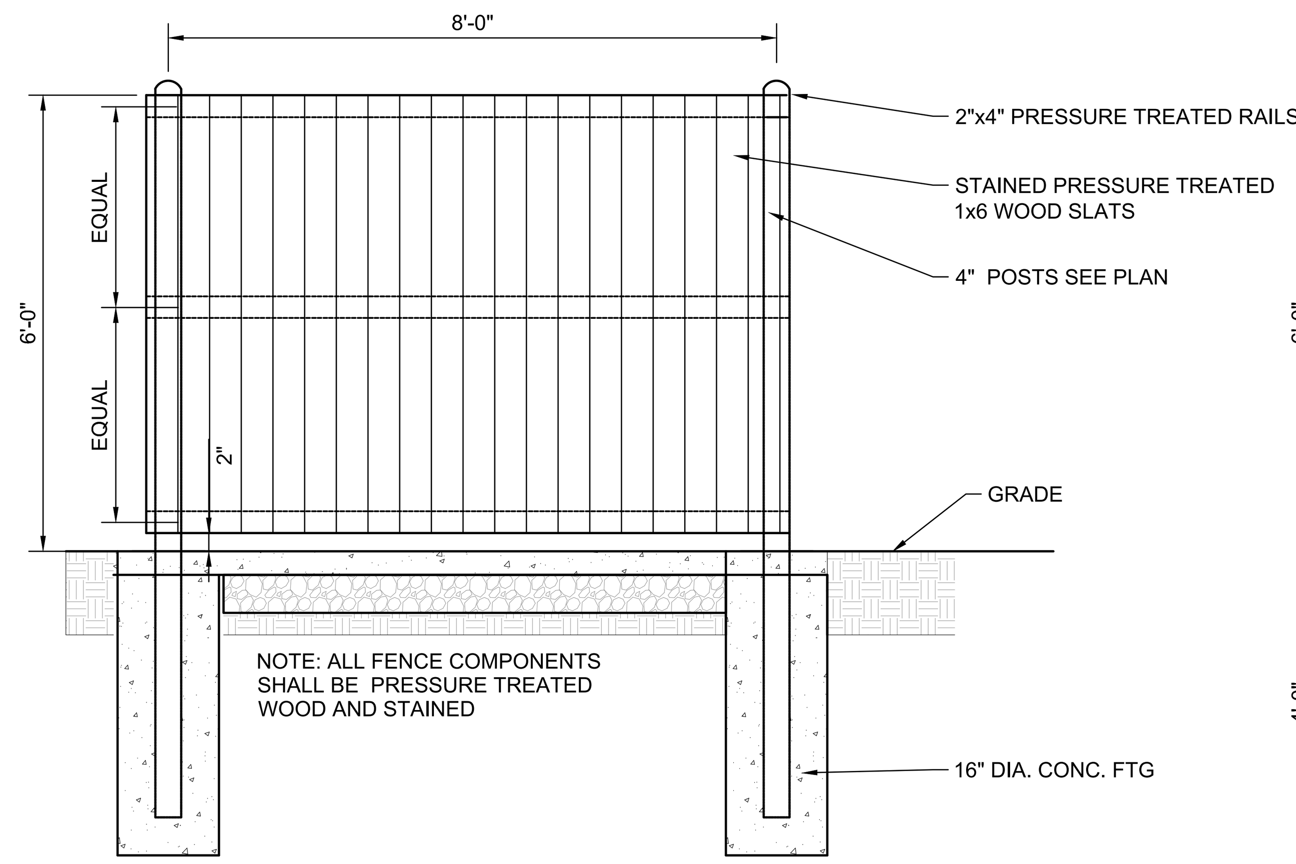
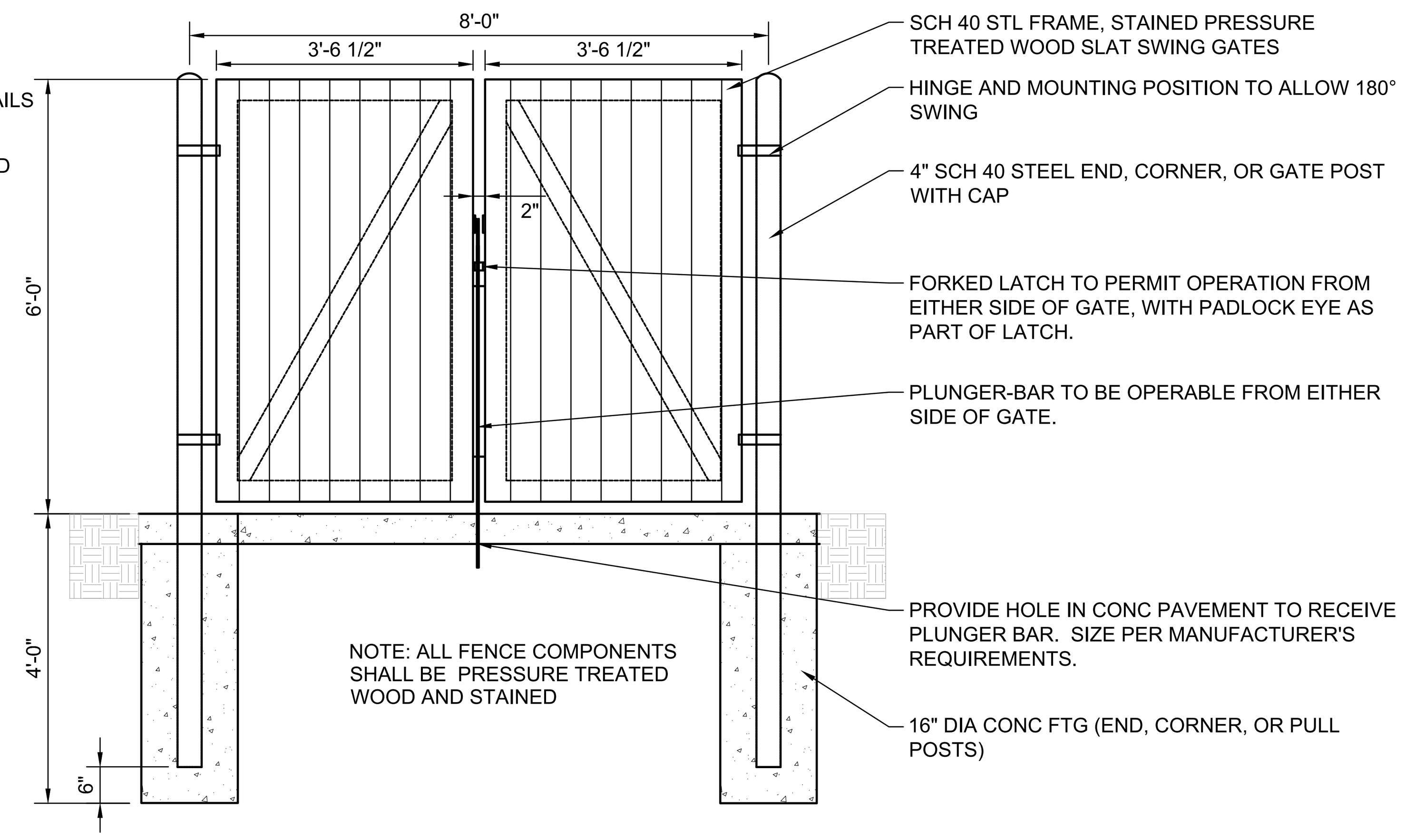


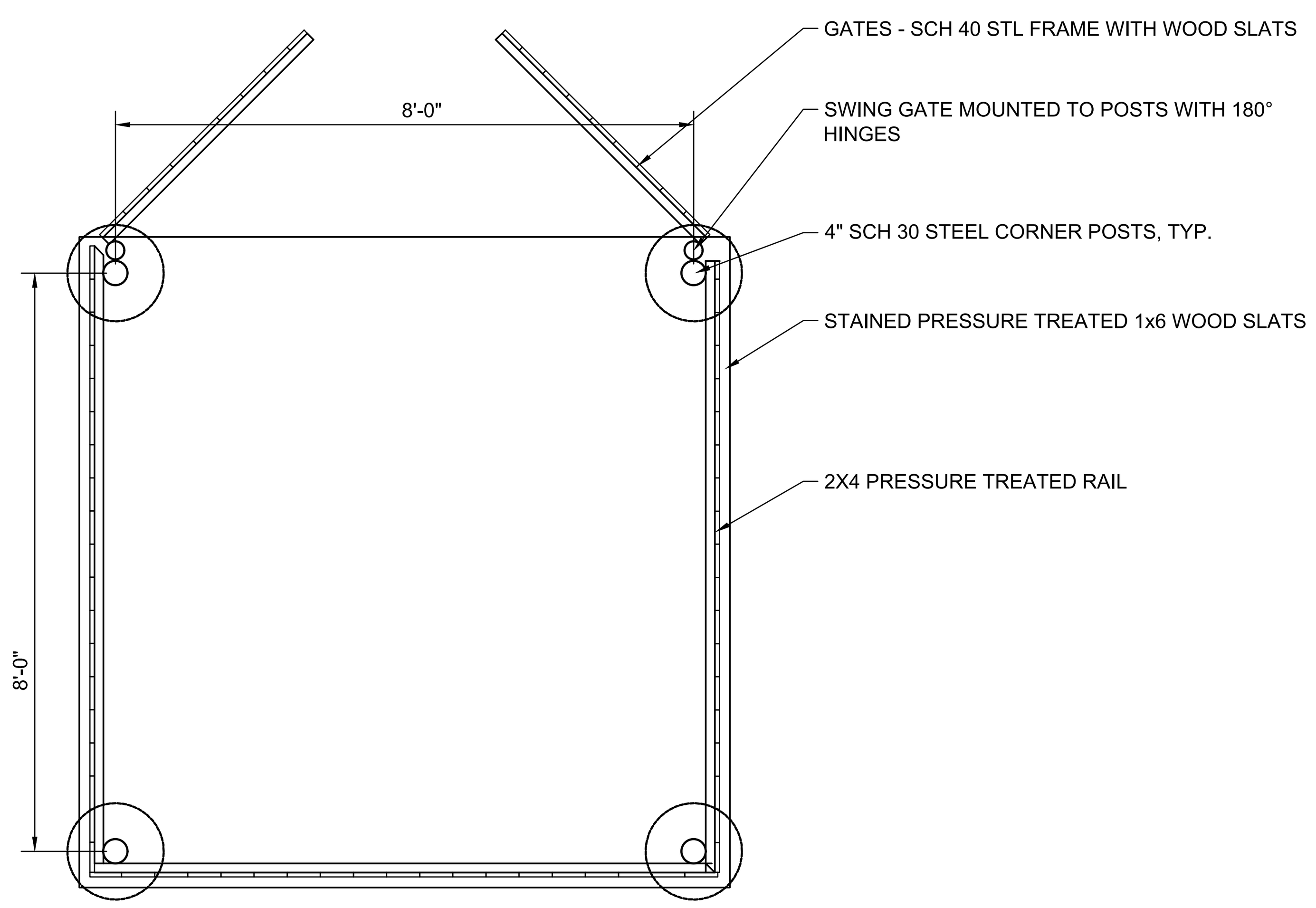
1 WOOD FENCE SECTION
SCALE: 1/2"=1'-0"



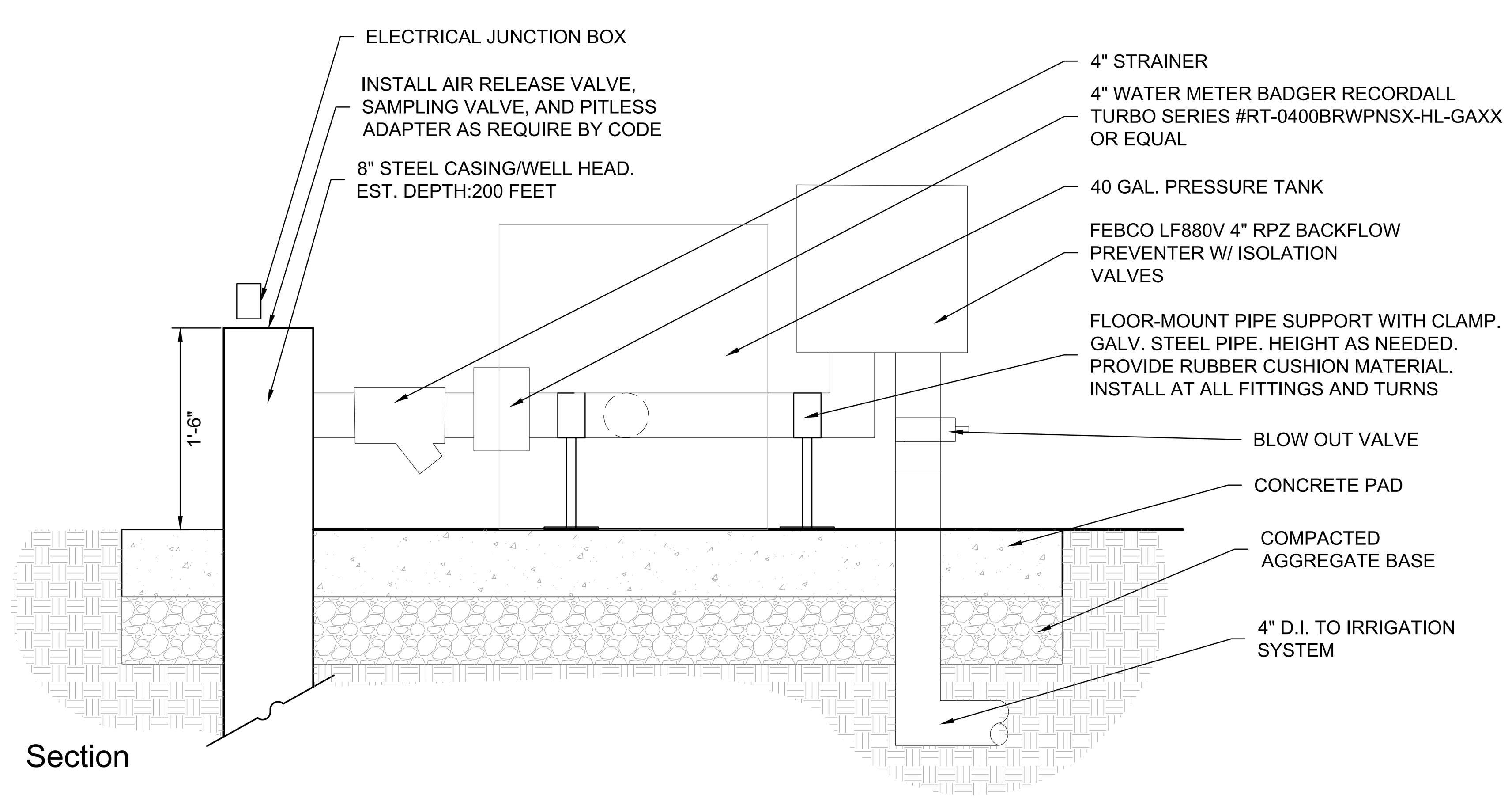
2 WOOD FENCE ELEVATION
SCALE: 1/2"=1'-0"



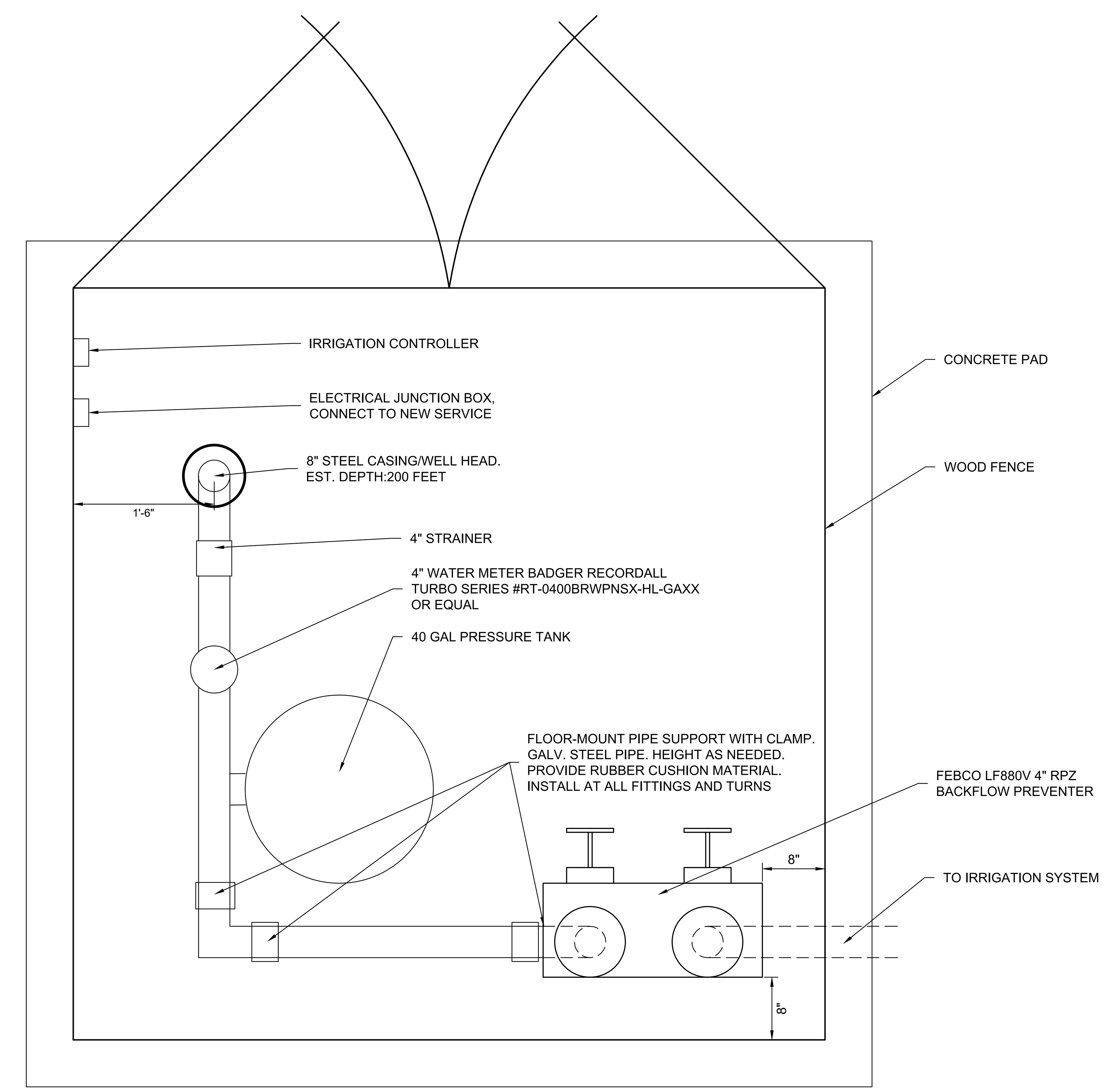
3 WOOD FENCE GATE
SCALE: 1/2"=1'-0"



4 WOOD FENCE ENCLOSURE PLAN
SCALE: 1/2"=1'-0"



Section



Plan

5 IRRIGATION WELL & RPZ SCHEMATIC
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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CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

DETAILS

Project Number:
190083
Drawn By:
RA
Sheet:

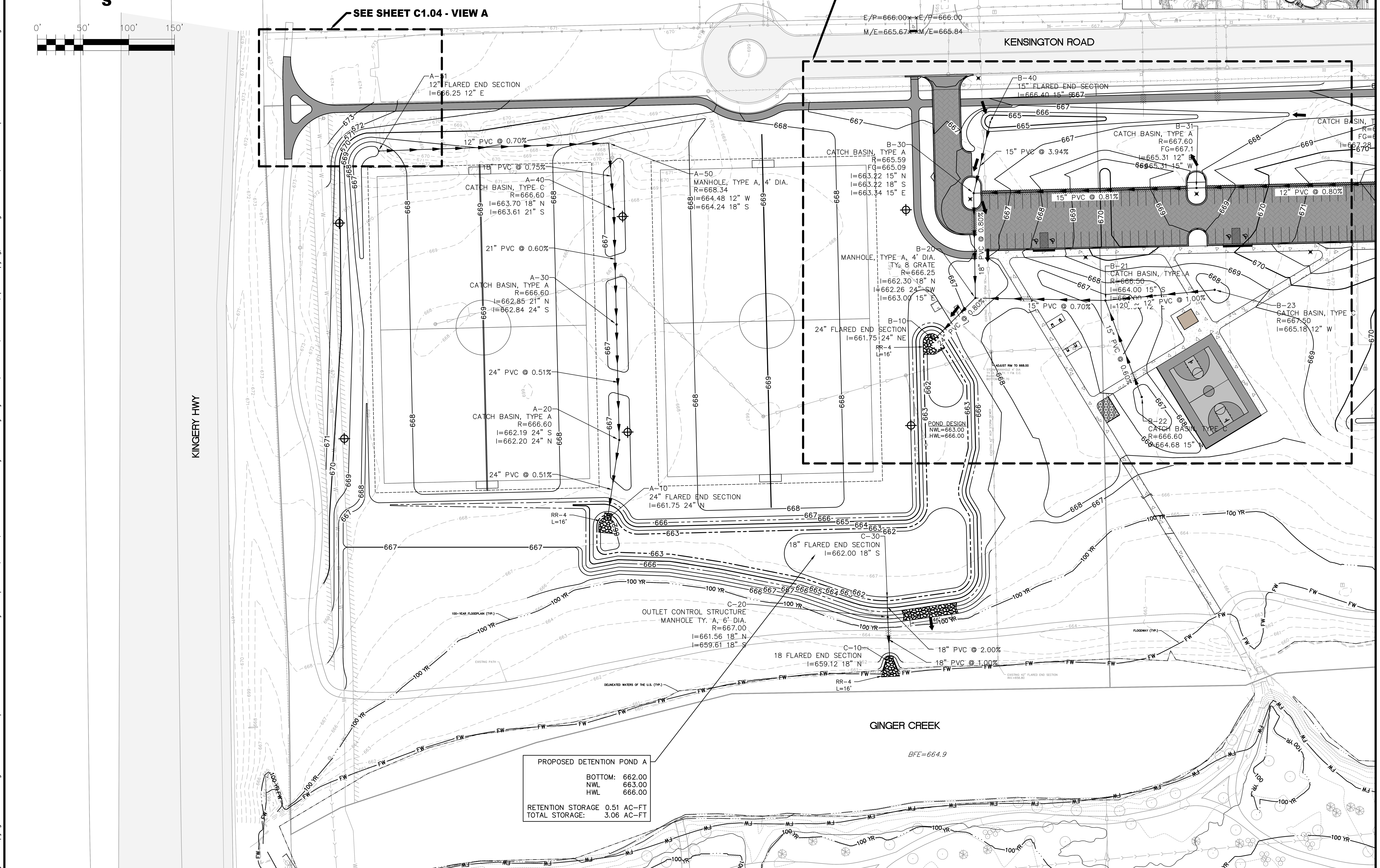
L5.04

NOTES:

a. All temporary soil erosion and sediment control measures shall be removed within thirty (30) days after final stabilization is achieved. Trapped sediment and other disturbed soils resulting from temporary measures shall be properly disposed of prior to permanent stabilization.
b. Pumping sediment-laden water into any stormwater facility not designated to be a sediment trap, drainageway, or offsite area either directly or indirectly without filtration is prohibited.
c. Land disturbance activities in streams and ditches shall be avoided where possible.
d. Soil stockpiles shall not be left overnight in ditches or within floodplains.
e. The Village of Oak Brook requires 24-hour notice for all roadway pavement cuts for utility installations.
f. Contact Don Lange with the Village of Oak Brook Water Department at 630-728-5950 a minimum of 24-hours in advance of any work associated with the water main or water service.
g. In locations where two paths meet an area with slopes less than 2% in all directions is required per ADA

PROP. TRENCH BACKFILL REQUIRED
PROP. 100-YR OVERLAND FLOW PATH

KEY PLAN



PROPOSED DETENTION POND A	
BOTTOM:	662.00
NWL	663.00
HWL	666.00
RETENTION STORAGE	0.51 AC-FT
TOTAL STORAGE:	3.06 AC-FT

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Wight & Company
wightco.com
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P 630.969.7000
F 630.969.7979

Civil Engineer

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8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562
Scott Randall

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	ISSUED FOR PERMITS	11/6/19

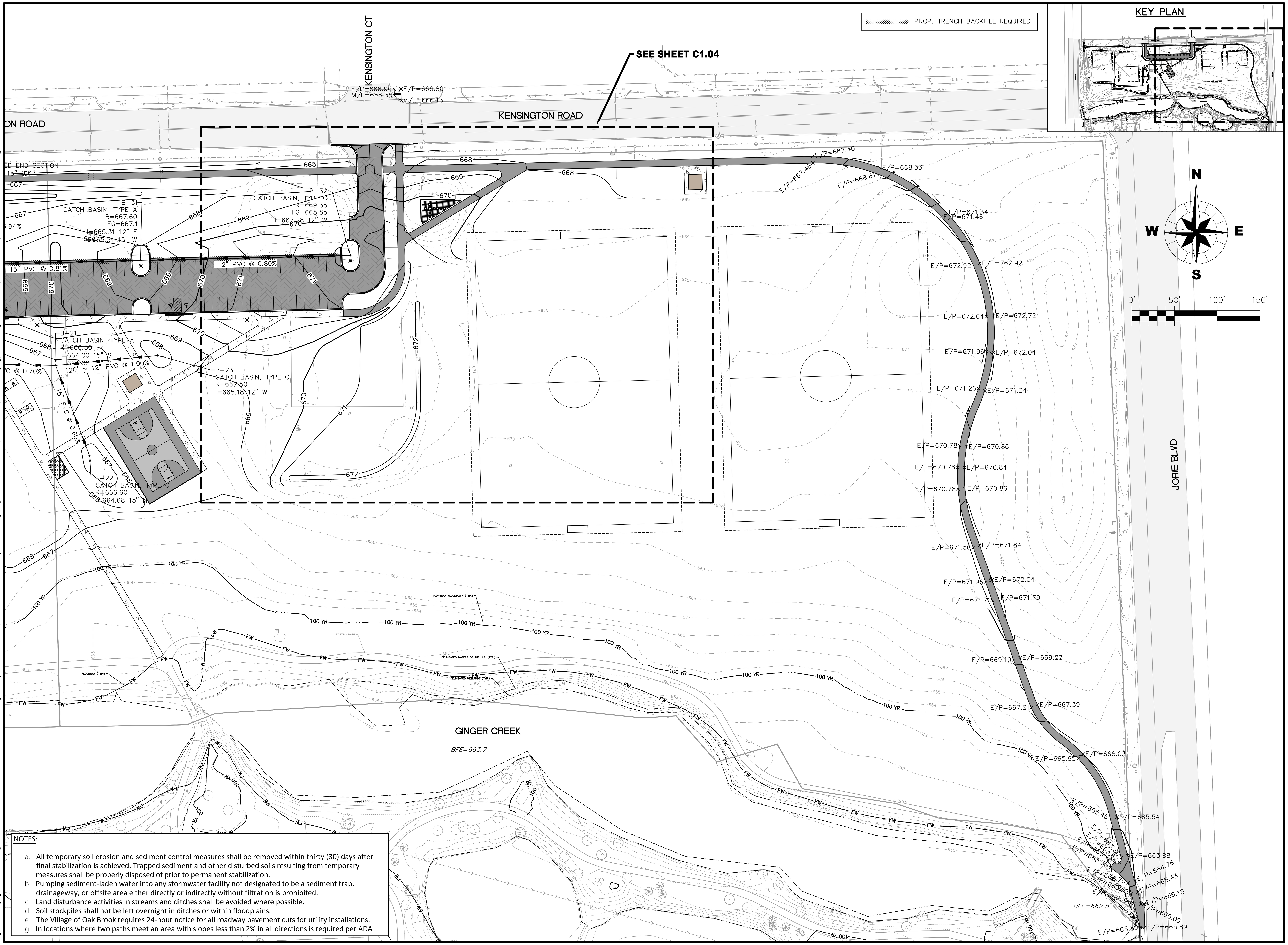
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

GRADING AND UTILITIES PLAN

Project Number: 190083
Drawn By: BEH
Sheet:

C1.01



NOTES:

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F 630.969.7979

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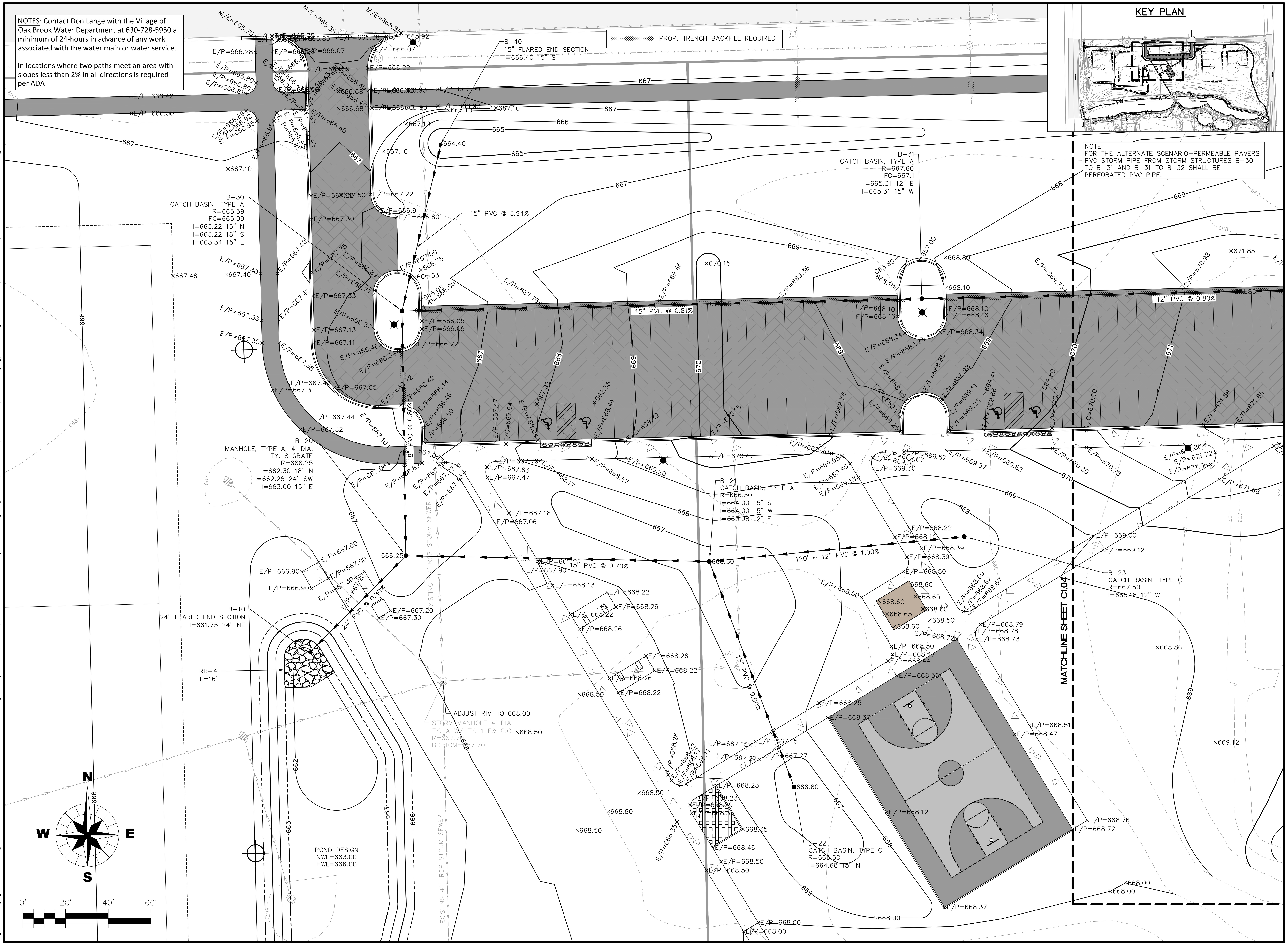
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

GRADING AND UTILITIES PLAN

Project Number:
190083
Drawn By:
BEH
Sheet:

C1.02



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Wight & Company
wightco.com

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P 630.969.7000
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GRADING AND UTILITIES PLAN

Project Number: 190083
Drawn By: BEH
Sheet:

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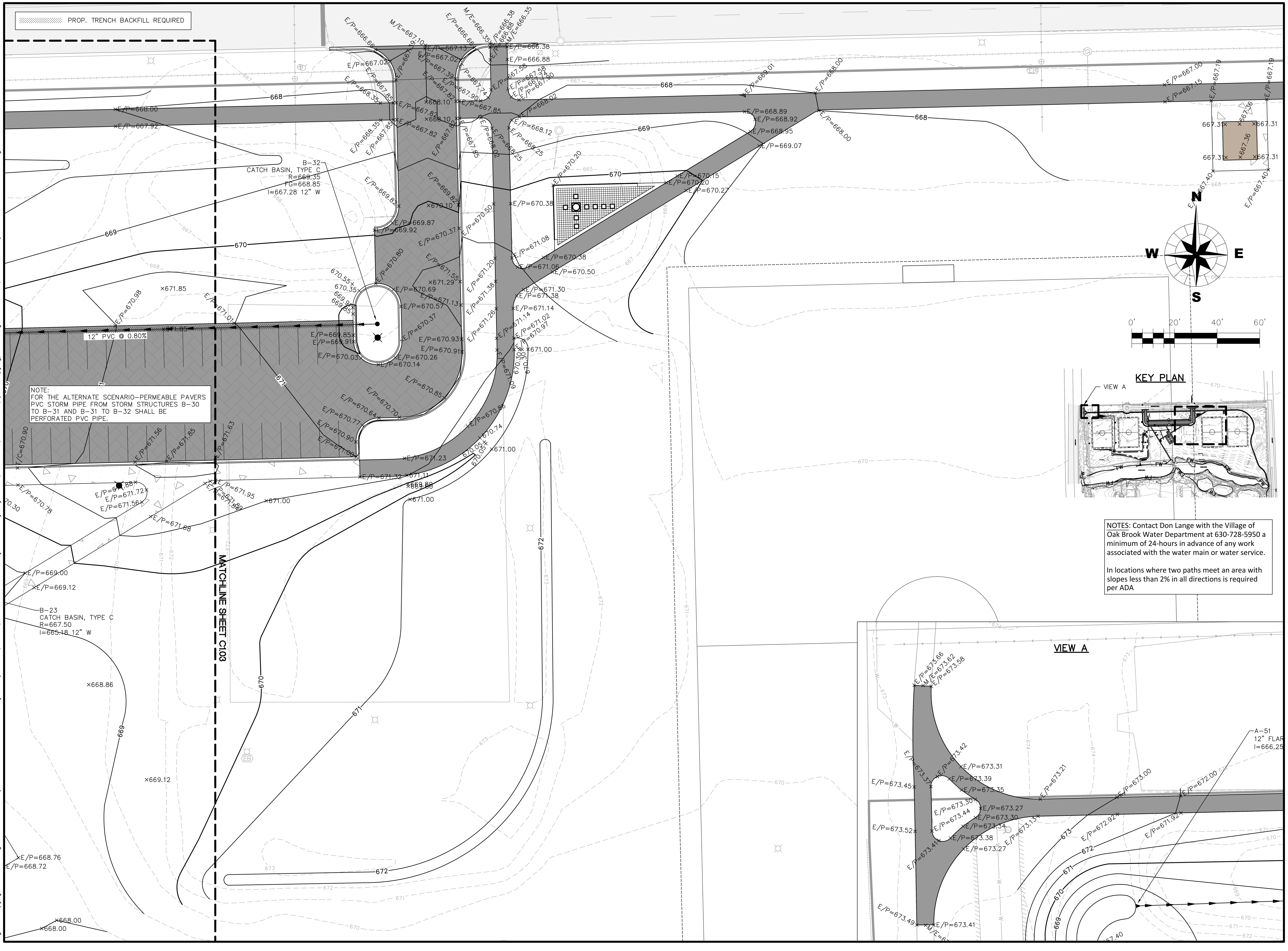

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P 630.969.7000
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CENTRAL PARK NORTH FIELDS PHASE 1

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Oak Brook, IL 60523

GRADING AND UTILITIES PLAN

Project Number:
190083
Drawn By:
BEH
Sheet:

C1.04

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):
OAK BROOK CENTRAL PARK NORTH FIELDS PHASE 1

THIS STORMWATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THE PERMIT IS ISSUED AND EFFECTIVE FROM AUGUST 3, 2018 AND IT EXPIRES ON JULY 31, 2023. THE PLAN CONSISTS OF THE SWPPP NARRATIVE AND NOTES, THE SWPPP PLAN SHEETS, INCLUDING ON AND OFF-SITE CONTROLS AND THE SWPPP DETAILS. THIS PLAN IS ONLY COMPLETE WHEN THE COMPONENT PARTS ARE INCLUDED.

1. **SITE DESCRIPTION:**
   A. THE WORK UNDER THIS CONTRACT WILL BE COMPLETED WITHIN THE OAK BROOK PARK DISTRICT'S NORTH FIELDS PARCEL (FORMERLY KNOWN AS LOTS 1 AND 2 IN MCDONALD'S AUTUMN OAKS SUBDIVISION).
   B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF THE MAJOR ACTIVITIES WHICH WILL DISTURB SOIL FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE; SEQUENCE OF THE CONSTRUCTION:
   - INSTALL EROSION CONTROL MEASURES.
   - SITE GRADING/EARTHWORK.
   - SITE UTILITIES.
   - PAVE PATHS AND PARKING LOT.
   - INSTALLATION OF PROPOSED PARK AMENITIES.
   - SITE LANDSCAPING AND RESTORE REMAINING PORTIONS OF DISTURBANCE.

   C. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 34 ACRES. THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 16 ACRES.
   D. THE ESTIMATED RUNOFF CURVE NUMBER FOR THE PROJECT IS 82 FOR EXISTING CONDITIONS AND 86 FOR THE PROPOSED PROJECT. INFORMATION DESCRIBING THE SOILS AT THE SITE IS CONTAINED IN THE "LIMITED PHASE II SUBSURFACE SOIL AND SOIL GAS VAPOR INVESTIGATION" FOR THE PROJECT, WHICH IS HEREBY INCORPORATED BY REFERENCE.
   E. A SITE MAP INDICATING DRAINAGE PATTERNS, APPROXIMATE SLOPES, VEHICLE ENTRANCES AND EXITS, CONTROLS FOR PREVENTION OF OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, LOCATIONS OF STRUCTURAL AND NONSTRUCTURAL CONTROLS, LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, LOCATIONS OF STOCKPILES OR MATERIAL STORAGE, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED INTO SURFACE WATER IS INCLUDED ON SHEET XX.
   F. THE SITE DRAINS BY STORM SEWER AND OVERLAND FLOW INTO GINGER CREEK WHICH IS A TRIBUTARY TO SALT CREEK. THERE ARE 0.25 ACRES OF WETLANDS ONSITE.

2. **CONTROLS**
   THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO AND ARE A PART OF THIS PLAN. THE SOIL EROSION AND SEDIMENT CONTROL PLAN DRAWINGS INCLUDED, DEFINE THE SIZE AND LOCATION OF THE MEASURES TO BE INSTALLED DURING THE CONSTRUCTION OF THIS PROJECT.
   A. SOIL EROSION AND SEDIMENT CONTROLS
   - STABILIZATION PRACTICES:
     PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE, AND WHEN STABILIZATION MEASURES ARE INITIATED ARE INCLUDED IN THE PLAN. EXCEPT AS PROVIDED IN 2.A AND 2.B, STABILIZATION MEASURES SHALL BE PERFORMED ON A DAILY BASIS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY 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 OF 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. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE. STABILIZATION PRACTICES INCLUDE:
   - DUST CONTROL WILL BE ACCOMPLISHED USING WATERING TRUCKS AS DIRECTED BY THE ENGINEER.
   - SEDIMENT TRACK-OUT WILL BE CONTROLLED THROUGH SWEEPING, SHOVELING, OR VACUUMING PAVED SURFACES OUTSIDE OF THE SITE BY THE END OF THE SAME BUSINESS DAY IN WICH THE TRACK-OUT OCCURS.
   - EROSION CONTROL BLANKET (TEMPORARY), TEMPORARY SEEDING, MULCH, AND ROLLED EXCELSIOR LOGS WILL BE USED TO STABILIZE THE CONSTRUCTION AREAS WHERE THE FINAL GRADE HAS BEEN REACHED BUT CANNOT BE PERMANENTLY STABILIZED DUE TO THE PLANTING SEASON RESTRICTIONS.
   - VEGETATIVE BUFFER STRIPS WILL BE USED WHERE APPLICABLE.
   - TREES AND MATURE VEGETATION WILL BE PROTECTED WHERE POSSIBLE.
   - SHEET FLOWS EXITING THE SITE WILL ENCOUNTER PERIMETER EROSION BARRIER.
   - STABILIZED CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR EXISTS THE SITE.
   - STOCKPILES THAT ARE TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL HAVE SOIL EROSION AND SEDIMENT CONTROL PROVIDED. AT A MINIMUM, PERIMETER EROSION BARRIER WILL BE PLACED AROUND THE BOTTOM OF THE STOCKPILE.
   - STOCKPILES THAT ARE TO REMAIN FOR MORE THAN 14 CALENDAR DAYS SHALL RECEIVE TEMPORARY SEED.
   - STRUCTURAL PRACTICES:
     PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. STRUCTURAL PRACTICES WILL BE PLACED ON UPLAND SOILS TO THE DEGREE PRACTICABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT:
   - INSTALLATION OF TEMPORARY SOIL STABILIZATION - EROSION CONTROL BLANKET (TEMPORARY) AND ROLLED EXCELSIOR LOGS.
   - MAINTENANCE OF VEGETATION AND PLANTINGS.

   B. STORM WATER MANAGEMENT
   PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL THE POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER THE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
   - THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF TECHNICAL GUIDANCE CONTAINED IN THE IEPA'S ILLINOIS URBAN MANUAL AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS. THE STORM WATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:
   - SILT FENCES
   - DRAINAGE SWALES
   - SUBSURFACE DRAINS
   - LINED APRONS
   - STORM DRAIN INLET PROTECTION
   - ROCK OUTLET PROTECTION
   - VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (I.E., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES). STORM WATER MANAGEMENT CONTROL INCLUDES:
   - SILT FENCE
   - LINED APRON

   C. OTHER CONTROLS
   - NON HAZARDOUS WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON-SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE U.S., EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
   - HAZARDOUS WASTE STORAGE & DISPOSAL: SHALL CONFORM TO THE IDOT SPECIAL PROVISION AND BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
   - SANITARY WASTE DISPOSAL: THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH THE APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. THE CONTRACTOR SHALL NOT CREATE OR ALLOW UNSANITARY CONDITIONS. SEPARATE AUTHORIZATION IS REQUIRED FOR INSTALLATION OF SANITARY SEWER OR SEPTIC SYSTEMS.
   - OFF-SITE VEHICLE TRACKING: EACH SITE SHALL HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PLAN DETAILS. WHERE THE CONTRACTOR'S EQUIPMENT IS OPERATED ON ANY PORTION OF THE TRAVELED SURFACE OR STRUCTURES USED BY TRAFFIC ON OR ADJACENT TO THE PROJECT, THE CONTRACTOR SHALL CLEAN (NOT FLUSHING OF) THE TRAVELED SURFACE OF ALL DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS OR MORE FREQUENTLY IF DIRECTED BY THE ENGINEER.
   - DEWATERING DEVICES: IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM SOIL EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH A SUMP PIT INTO A SEDIMENT BASIN. ALL SUMPED DISCHARGES TO WATERS OF THE US SHALL BE PERMITTED BY THE USACE.
   - SITE CLEANUP: TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM THE DISPOSITION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER SOIL EROSION AND SEDIMENTATION.
   - TREATMENT CHEMICALS: POLYMER FLOCCULANTS OR TREATMENT CHEMICALS SHALL BE USED FOR REDUCING TURBIDITY IN STORM WATER RUNOFF AND MINIMIZING EROSION. ALL TREATMENT CHEMICALS SHALL BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION AND WILL ONLY BE USED BY STAFF WHO ARE PROPERLY TRAINED.

   D. APPROVED COUNTY, STATE & LOCAL PLANS:
   THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE CURRENT VERSION OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S *ILLINOIS URBAN MANUAL STANDARDS AND SPECIFICATIONS*. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE BELOW. REQUIREMENTS SPECIFIED IN SOIL EROSION AND SEDIMENT CONTROL PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS, OR SITE PERMITS APPROVED BY COUNTY, STATE, OR LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF A NOTICE OF INTENT (NOI), INCORPORATED AND ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN. THE SOIL EROSION AND SEDIMENT CONTROL FOR THIS SITE MUST MEET THE REQUIREMENTS OF THE FOLLOWING AGENCIES:

   - KANE DUPAGE SOIL AND WATER CONSERVATION DISTRICT

3. **MAINTENANCE:**
   THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS. THE CONTRACTOR WILL ASSIGN A SOIL EROSION AND SEDIMENT CONTROL MANAGER (SESCM) TO THE PROJECT. HIS DUTIES WILL BE TO SUPERVISE THE MAINTENANCE OF THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND IMPLEMENTATION OF THIS PLAN.

   THE FOLLOWING SHALL BE THE MINIMUM MAINTENANCE REQUIRED:
   A. VEGETATIVE SOIL EROSION MEASURES - THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, VEGETATIVE FILTERS, ETC., SHALL BE MAINTAINED PERIODICALLY AND SUPPLIED ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.
   B. WATER TREATMENT SYSTEM WILL BE CLEANED AND ITEMS REPLACED AS RECOMMENDED BY THE DESIGNER OF THE SYSTEM. SEDIMENT ACCUMULATION WILL BE REMOVED AT A MINIMUM WHEN THE HEIGHT IS EQUAL TO 50% OF THE HEIGHT OF THE BAFFLE OR CURTAIN.
   C. PERIMETER EROSION BARRIER AND ROLLED EXCELSIOR LOGS WILL BE EXAMINED REGULARLY AND REPAIRED AS NECESSARY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A HEIGHT EQUAL TO 50% OF THE HEIGHT OF THE BARRIER.
   D. STABILIZED ACCESS ROAD AND STABILIZED CONSTRUCTION ENTRANCES SHALL HAVE SEDIMENT BUILD UP REMOVED AS NECESSARY.

4. **INSPECTIONS**
   THE ENGINEER WILL BE RESPONSIBLE FOR CONDUCTING SOIL EROSION AND SEDIMENT CONTROL INSPECTIONS. THE CONTRACTOR'S SESCM SHALL BE NOTIFIED WHEN THE INSPECTIONS ARE TO TAKE PLACE AND IS EXPECTED TO BE PRESENT DURING THE INSPECTIONS. A MAINTENANCE INSPECTION REPORT WILL BE COMPLETED AFTER EACH INSPECTION. A COPY OF THE REPORT IS TO BE COMPLETED BY THE INSPECTOR AND STORED ON-SITE WITH A COPY GIVEN TO THE CONTRACTOR. THE INSPECTION SHALL INCLUDE ALL DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, THE STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ALL MAJOR OUTFALLS. SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN STORM (OR EQUIVALENT SNOWFALL) THAT IS 0.5 INCHES OR GREATER. DEPTH OF RAIN FALL WILL BE DETERMINED BY AN ON-SITE RAIN GAUGE. THE ENGINEER SHALL READ THE RAIN GAUGE DAILY AND AFTER EACH RAIN STORM.
   A. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY INSPECTIONS WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOWMELT OCCURS.
   B. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.
   C. 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 AND WATERWAYS. SOIL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF THE COMPLETION OF THE INSPECTION REPORT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER THE MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE TRACKING.
   D. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE, THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTION SHALL BE IMPLEMENTED WITHIN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.
   E. 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 THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTION TAKEN IN ACCORDANCE WITH SECTION 4.B SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT.
   F. IF ANY VIOLATIONS OF THE PROVISIONS OF THIS PLAN ARE IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE ENGINEER SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ABOUT 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. THE IEPA MUST BE NOTIFIED BY PHONE, FAX, OR E-MAIL WITHIN 24 HOURS OF THE DISCOVERY OF THE NONCOMPLIANCE ACTION. THE ION REPORT MUST BE FILED WITHIN 5 DAYS OF THE INCIDENT. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

   ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
   DIVISION OF WATER POLLUTION CONTROL
   1021 NORTH GRAND AVENUE EAST
   P.O. BOX 19276
   SPRINGFIELD, IL 62794-9276
   epa.swnoncomp@illinois.gov

5. **NON-STORM WATER DISCHARGES:**
   EXCEPT FOR THE FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY ARE TREATED BY THE MEASURES INCLUDED IN THESE PLANS. THESE SOURCES INCLUDE THE FOLLOWING:
   - FIRE HYDRANT FLUSHINGS
   - WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
   - WATER USED TO CONTROL DUST
   - POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS
   - LANDSCAPE IRRIGATION DRAINAGES
   - ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS
   - PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
   - UNCONTAMINATED AIR CONDITIONING CONDENSATE
   - UNCONTAMINATED GROUND WATER
   - FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS

6. **INVENTORY FOR POLLUTION PREVENTION PLAN:**
   THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION. *(TABLE TO BE FILLED IN BY CONTRACTOR)*

7. **SPILL PREVENTION - MATERIAL MANAGEMENT PRACTICES:**
   THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

   GOOD HOUSEKEEPING:
   THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:
   - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
   - ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
   - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
   - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
   - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
   - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.
   - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
   - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

   HAZARDOUS PRODUCTS:
   THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
   - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
   - ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
   - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

   SPILL CONTROL PRACTICES:
   IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   - MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
   - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
   - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
   - THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCES.

8. **POST-CONSTRUCTION STORMWATER MANAGEMENT**
   THE FOLLOWING MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION AND MAINTENANCE OF THESE MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA. THE MEASURES ARE AS FOLLOWS:
   - INSTALLATION OF A STORM WATER DETENTION STRUCTURE (INCLUDING WET PONDS).
   - INSTALLATION OF A STORM WATER RETENTION STRUCTURE.
   - INSTALLATION OF OPEN VEGETATED SWALES AND/OR USE OF NATURAL DEPRESSIONS FOR FLOW ATTENUATION.
   - ONSITE INFILTRATION OF RUNOFF.

EROSION AND SEDIMENT CONTROL KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED 2017.
2. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
6. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE DISCHARGE. PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS AT THE INLET AND OUTLET USING EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES. SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS STRICTLY PROHIBITED.
7. "IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA."

ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES

1. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOWS.
2. THE COMPLETED SLOPES SHALL BE SEEDED AND MULCHED, OR BLANKETED IF APPLICABLE AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
3. ALL DISTURBED AREAS SHALL BE COVERED IN AN ACCEPTABLE OR APPROVED TYPE OF PERMANENT SEEDING UNLESS OTHERWISE INDICATED.
4. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF 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.
5. ALL ADJACENT STREETS AND PARKING LOTS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
6. CONCRETE WASHOUT LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN A MANNER CONSISTENT WITH THE LATEST VERSION OF THE ILLINOIS URBAN MANUAL.
7. STOCKPILE LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. STOCKPILES MAY NOT BE LOCATED WITHIN THE LIMITS OF THE FLOODWAY.

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

Scott Randall

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/17/20
	ISSUED FOR BID/PERMITS	02/14/20
	ISSUED FOR BID/PERMITS	02/04/20
	ISSUED FOR PERMITS	11/6/19

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Project Number: 190083
Drawn By: BEH
Sheet:

C2.01

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT.
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		
	SODDING	X	SO	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		X
	PLANTS, TREES, & SHRUBS		GC	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		
NON VEGETATIVE SOIL COVER	MULCHING		M	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.		
	EROSION CONTROL BLANKET	X	EB	PROTECTS AND PRESERVES MOISTURE FOR PERMANENT SEEDING ON STEEP SLOPES, AREAS OF PERIODIC CONCENTRATED RUNOFF (DITCHES) OR IN AREAS THAT MAY BE DAMAGED BY PEDESTRIAN TRAFFIC.	X	
	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING	X	P	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X
DIVERSIONS	RIDGE DIVERSION	X	RD	TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION		CD	TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION		DC	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND GUTTER	X	CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
WATERWAYS	BARE CHANNEL		BC	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	STRUCTURAL STREAMBANK STABILIZATION		SSS	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER.		
	VEGETATIVE CHANNEL	X	VC	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		X
	VEGETATIVE STREAMBANK STABILIZATION		VS	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER AND PROVIDES NATURAL, PLEASING APPEARANCE.		
	LINED CHANNEL		LC	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
	DITCH CHECKS		SDC	USED IN DITCHES TO RETARD THE VELOCITY OF WATER IN A DITCH TO MINIMIZE SOIL EROSION PRIOR TO THE DITCH BEING VEGETATED.		
ENCLOSED DRAINAGE	STORM SEWER	X	ST	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		X
	UNDERDRAIN	X	UD	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		X
SPILLWAYS	STRAIGHT PIPE SPILLWAY		SS	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
	DROP INLET SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
OUTLETS	LINED APRON	X	LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.	X	X
	PERFORATED RISER	X	PR	HELPS TO SLOW DISCHARGE FROM A STORMWATER DETENTION FACILITY DURING THE CONSTRUCTION PROCESS, WHICH IN TURN ALOWS SUSPENDED SOIL AND SEDIMENT TO SETTLE OUT OF STORMWATER BEING DISCHARGED FROM THE SITE.	X	
SEDIMENT BASINS	EMBANKMENT SEDIMENT BASIN		ES	USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
	EXCAVATED SEDIMENT BASIN		XS	USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
	COMBINATION SEDIMENT BASIN	X	CS	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		X
SEDIMENT FILTERS	BARRIER FILTER		BF	USED TO FILTER SEDIMENT FROM RUNOFF.		
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
	INLET FILTER	X	IF	USED FOR INLETS		
	SILT FENCE	X	SF	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF.		
	FLOATING SILT CURTAIN	X	SC	USED IN FLAT POOL WATER TO CONTAIN SEDIMENT FROM AN ADJACENT WORK AREA.	X	
MUD AND DUST CONTROL	STABILIZED CONST. ENTRANCE	X	SE	PREVENTS MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	
	DUST AND TRAFFIC CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	
OHER	CONCRETE WASHOUT AREA	X	CW	PREVENTS CONCRETE WASHOUT WATER FROM LEAVING SITE.	X	

CONSTRUCTION STAGING:
CENTRAL PARK NORTH FIELDS PHASE I

PRE-CONSTRUCTION

INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE CONSTRUCTION AND STAGING AREA: SILT FENCE, TEMPORARY CONSTRUCTION ENTRANCE, OFF-SITE INLET FILTERS

STAGE 1

1. STRIP TOP SOIL, STOCKPILE, STABILIZE TEMPORARY STOCKPILE.
2. EXCAVATE STORMWATER DETENTION AREA SEDIMENTATION BASIN.
3. INSTALL TEMPORARY PERFORATED RISER FOR STORMWATER SEDIMENTATION BASIN.
4. REMOVE ITEMS, PER ENGINEERING PLANS.
5. INSTALL DETENTION UNDER DRAIN SYSTEMS.
6. MASS GRADE SITE.
7. GRADE SOCCER FIELDS, TEMPORARY STABILIZATION.
8. INSTALL STORM SYSTEMS, WATER MAIN, AND SANITARY SEWER, PROVIDE INLET FILTERS AND RIP RAP OUTLET PROTECTION
9. INSTALLATION OF CURB AND GUTTER, SIDEWALKS, PAVEMENT NOT NEAR TEMPORARY CONSTRUCTION ENTRANCE.
10. GRADE INSIDE RAIN GARDENS / INSTALL ENGINEERED SOILS.
11. REMOVE TEMPORARY CONSTRUCTION ENTRANCE, GRADE, INSTALL FINAL PAVEMENT.
12. STABILIZE ALL AREAS WITH SEED AND BLANKET AND/OR SOD AS CALLED OUT ON PLANS.
13. REMOVE SILT FENCE AND TEMPORARY PERFORATED RISER.

CONSTRUCTION STAGING NOTES:

THE CONTRACTOR WILL NOT BE ALLOWED TO CLEAR MORE THEN ONE STAGE AT A TIME. SOIL STABILIZATION (TEMPORARY OR PERMANENT) MUST BE INITIATED WITHIN 1 WORKING DAY 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. PERMANENT SOIL STABILIZATION WILL BE INSTALLED PRIOR TO STARTING THE NEXT STAGE OF CONSTRUCTION.

WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER TO PROVIDE PROPER SOIL EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET, HEAVY MULCH, OR HYDRO MULCH.

CONTRACTOR CERTIFICATION

CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION"

GENERAL CONTRACTOR

SIGNATURE ____ TITLE ____ DATE ____

COMPANY ____

SUB-CONTRACTOR RESPONSIBLE FOR:____

SIGNATURE ____ TITLE ____ DATE ____

COMPANY ____

WITNESSED BY OWNER

SIGNATURE ____ TITLE ____ DATE ____

COMPANY ____

INSPECTION AND MAINTENANCE TABLE

ACTIVITY	RESPONSIBLE PARTY	DURATION
MAINTENANCE OF STABILIZATION DURING CONSTRUCTION		DURING CONSTRUCTION AS NEEDED
OBSERVATION OF STABILIZATION DURING CONSTRUCTION		WEEKLY AND W/IN 24 HRS AFTER RAINFALL EVENT OF 0.5" OR GREATER
VEGETATION MAINTENANCE		1 YEAR FROM COMPLETION
VEGETATION AND STABILIZATION MAINTENANCE		ONGOING FROM PROJECT COMPLETION

SOIL PROTECTION SCHEDULE

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
SODDING			E**									
MULCHING	F											

A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.

B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.

C. SPRING OATS 100 LBS/ACRE

D. WHEAT OR CEREAL RYE 150 LBS/ACRE.

E. SOD

F. STRAW MULCH 2 TONS/ACRE.

* IRRIGATION NEEDED DURING JUNE AND JULY.
** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

Scott Randall

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/17/20
	ISSUED FOR BID/PERMITS	02/14/20
	ISSUED FOR BID/PERMITS	02/04/20
	ISSUED FOR PERMITS	11/6/19

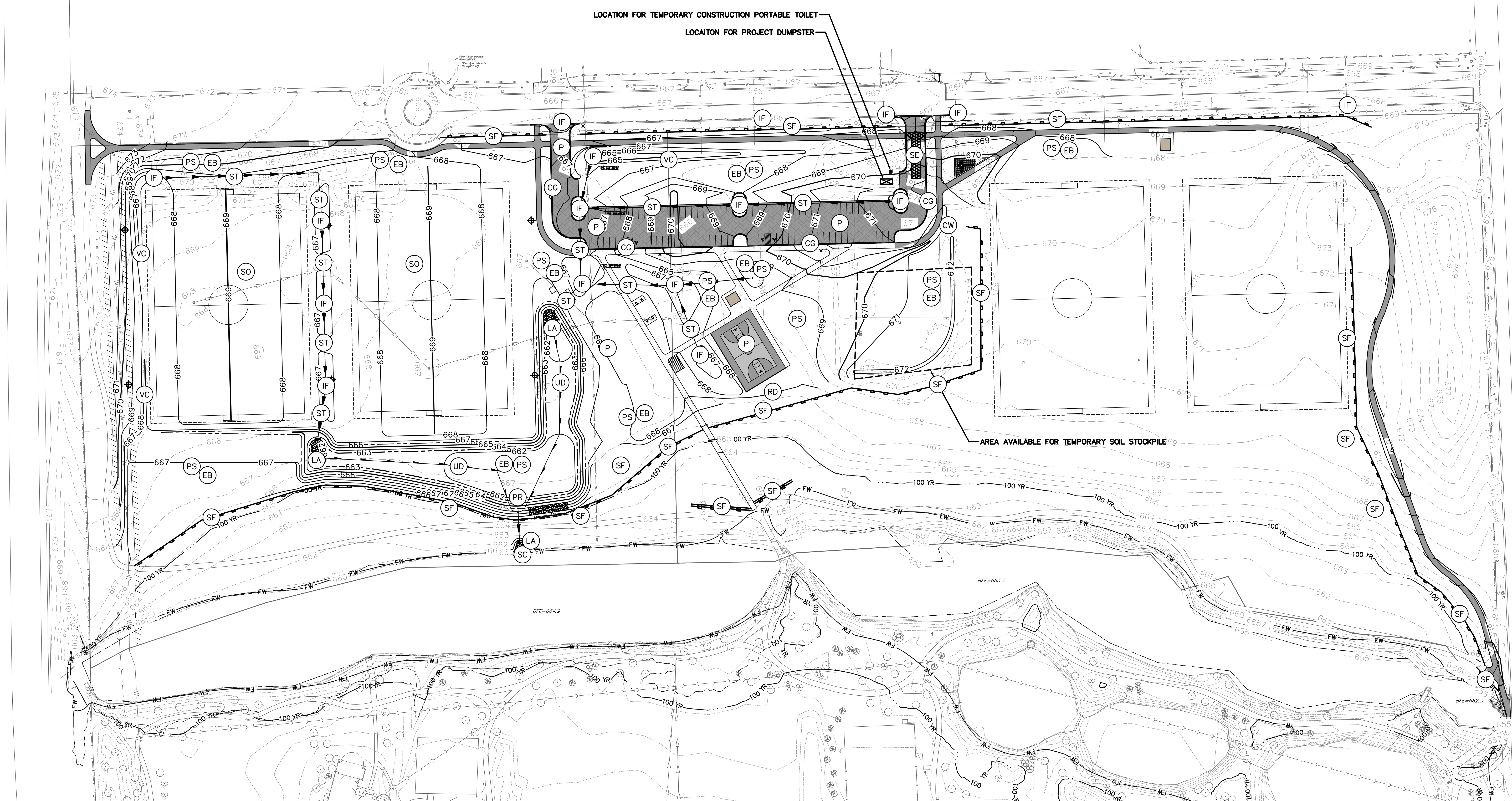
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Project Number: 190083
Drawn By: BEH
Sheet:

C2.02



OAK BROOK PARK DISTRICT

Wight
Wight & Company
wightco.com

2500 North Frontage Road
Darien, IL 60561

P 630.969.7000
F 630.969.7979

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	ISSUED FOR PERMITS	11/6/19

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
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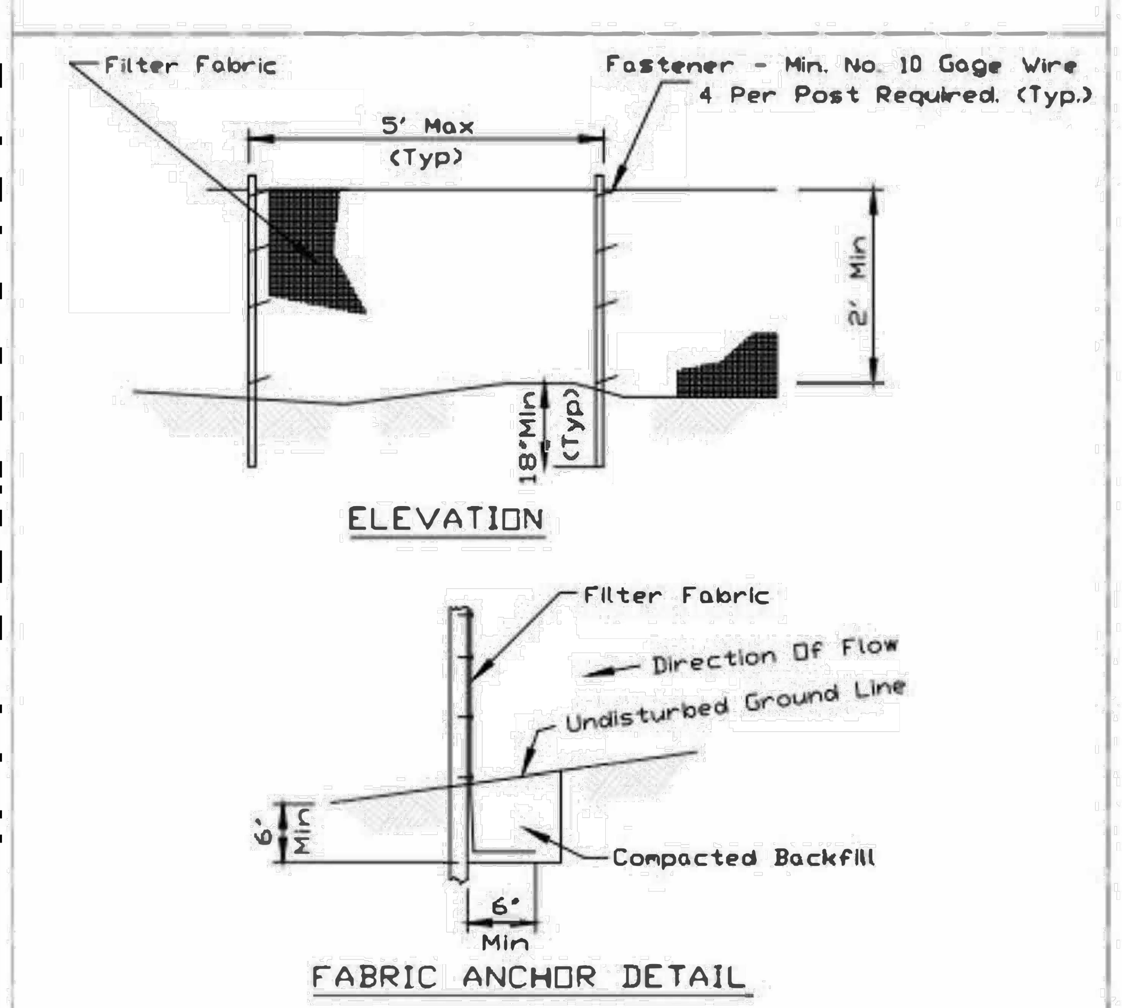
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Project Number:
190083
Drawn By:
BEH
Sheet:

C2.03

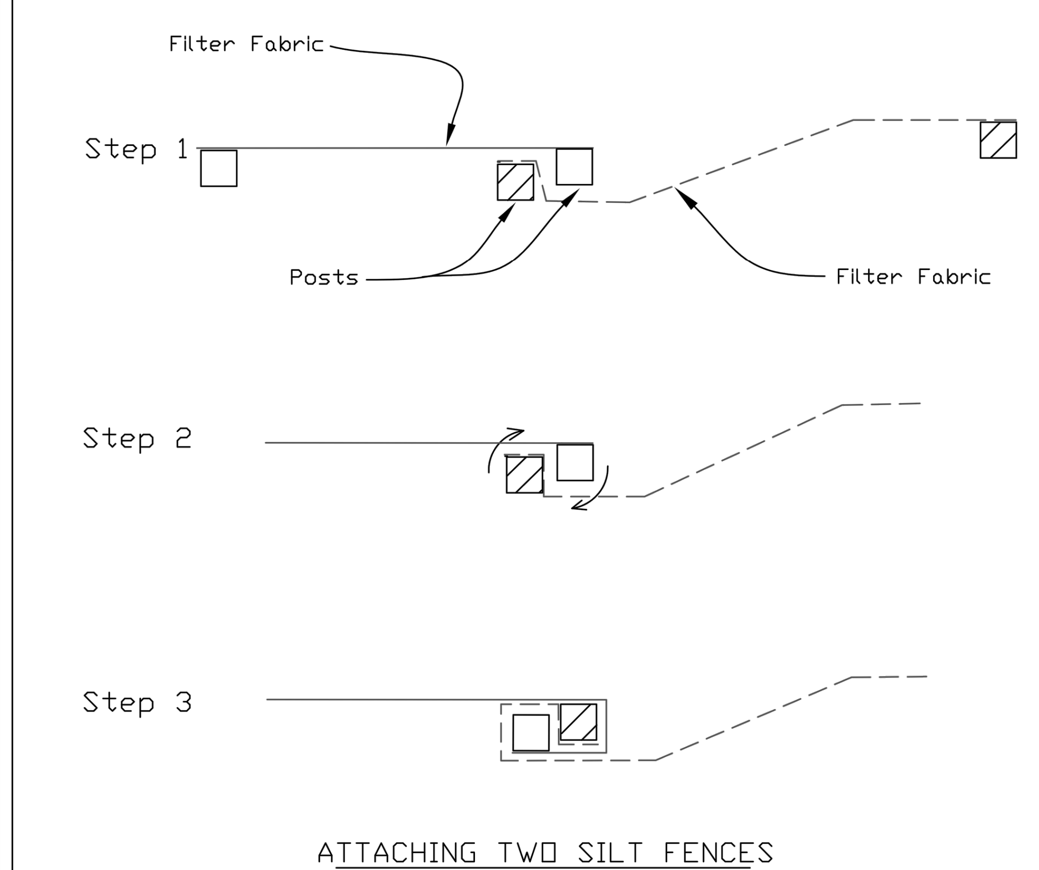
SILT FENCE PLAN



NOTES:
1. 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.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, class 2
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2" x 2" nominal size.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
STANDARD DWG. NO. IUM-620
SHEET 1 OF 2
DATE 3-16-12

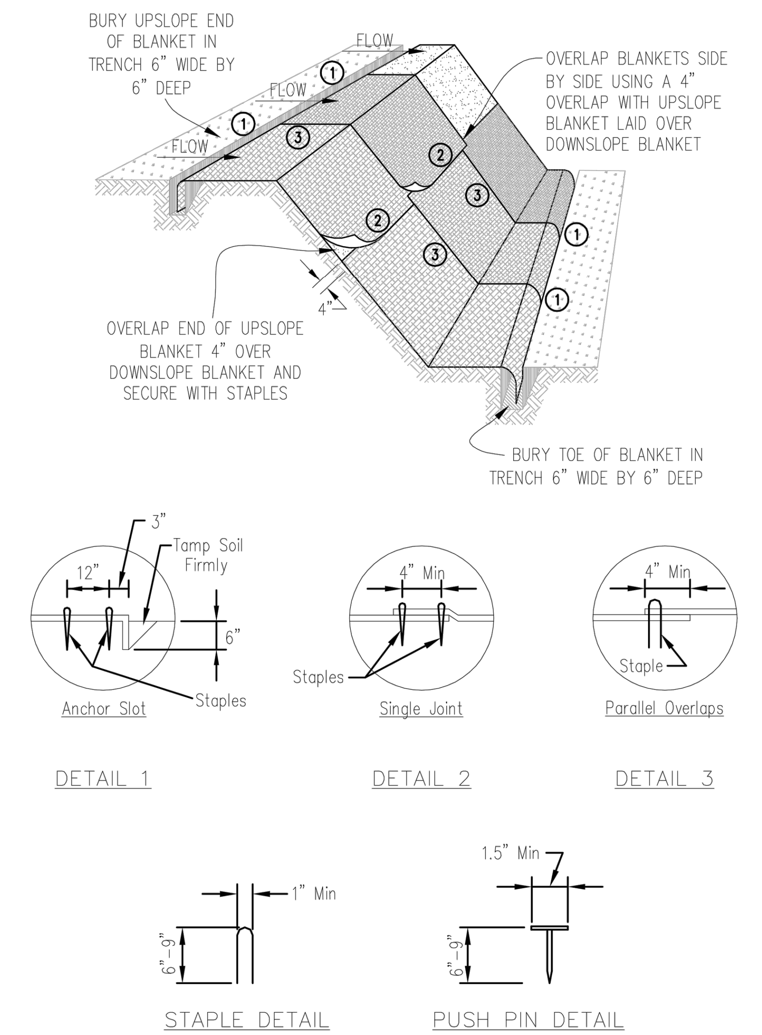
SILT FENCE - SPLICING TWO FENCES



1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
STANDARD DWG. NO. IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012

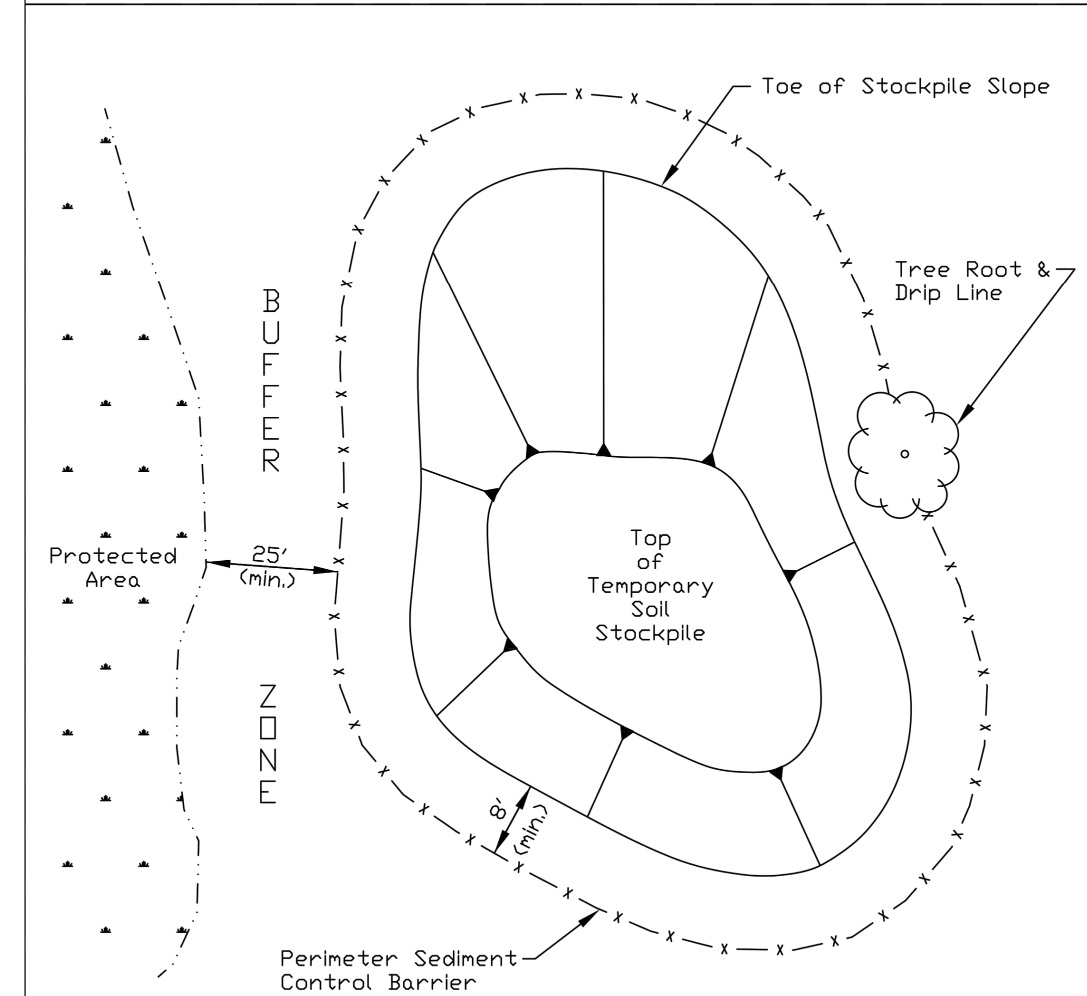
AUTOCAD2006



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

Sheet 1 of 1 | Drawing No. | File No. IUM-530
EROSION CONTROL BLANKET INSTALLATION DETAILS
Designed ____ Date
Drawn B. JOHNSON 11/08
Checked ____
Approved ____

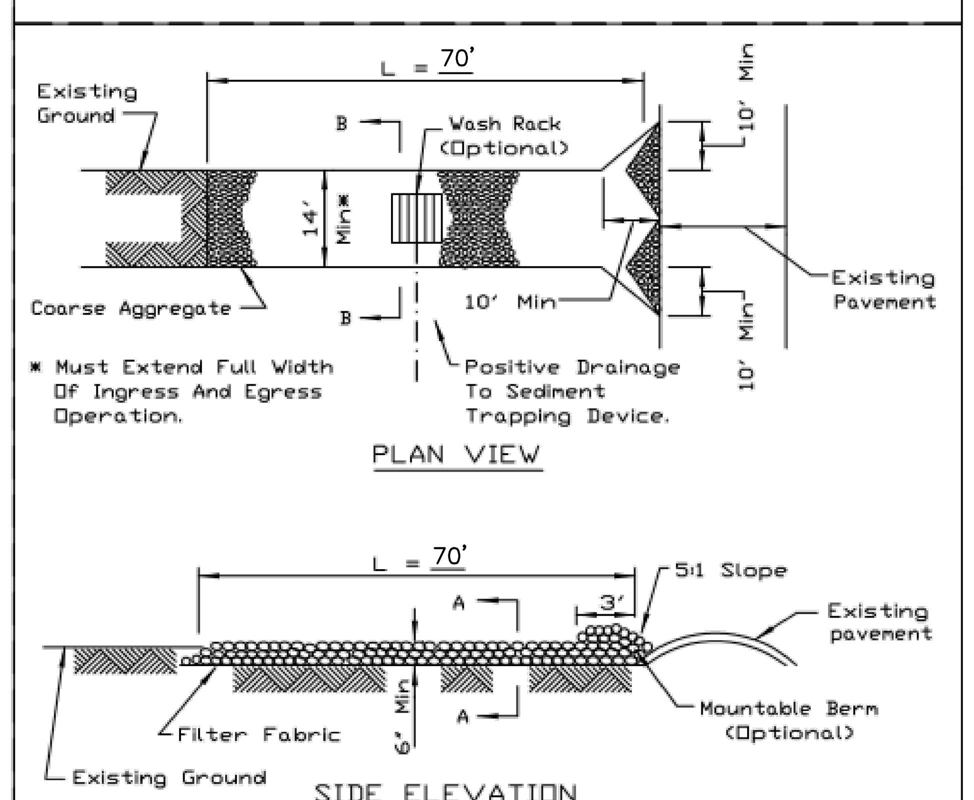
TEMPORARY SOIL STOCKPILE DETAIL



NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or within the root cover of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
STANDARD DWG. NO. IUM-627
SHEET 1 OF 1
DATE JANUARY 2017

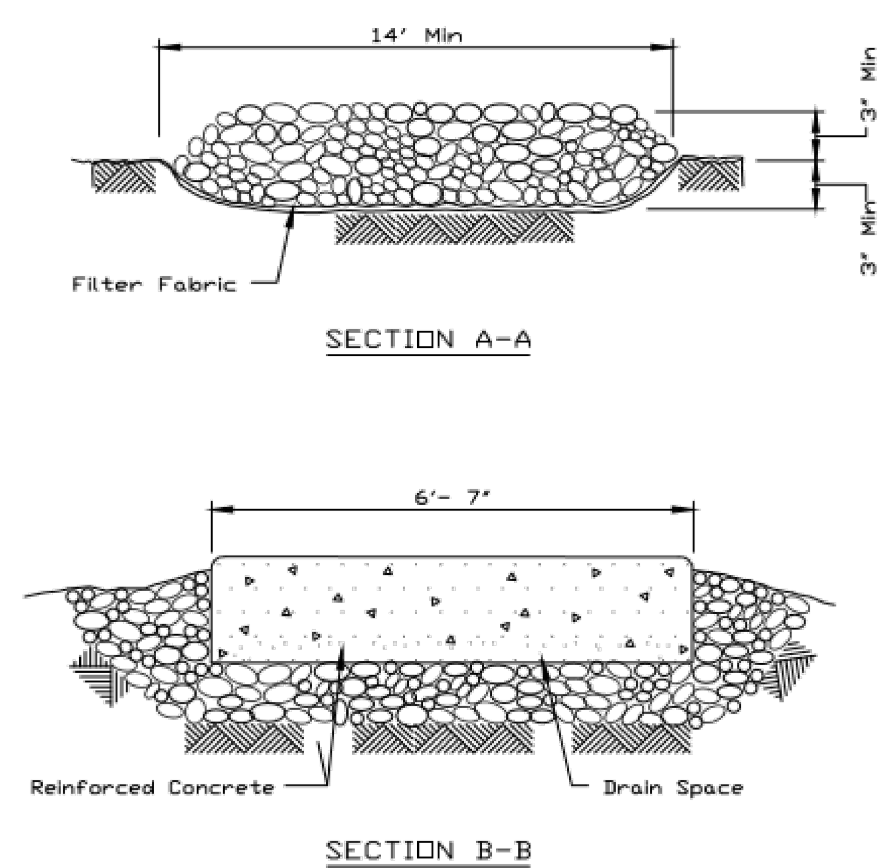
STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. 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.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

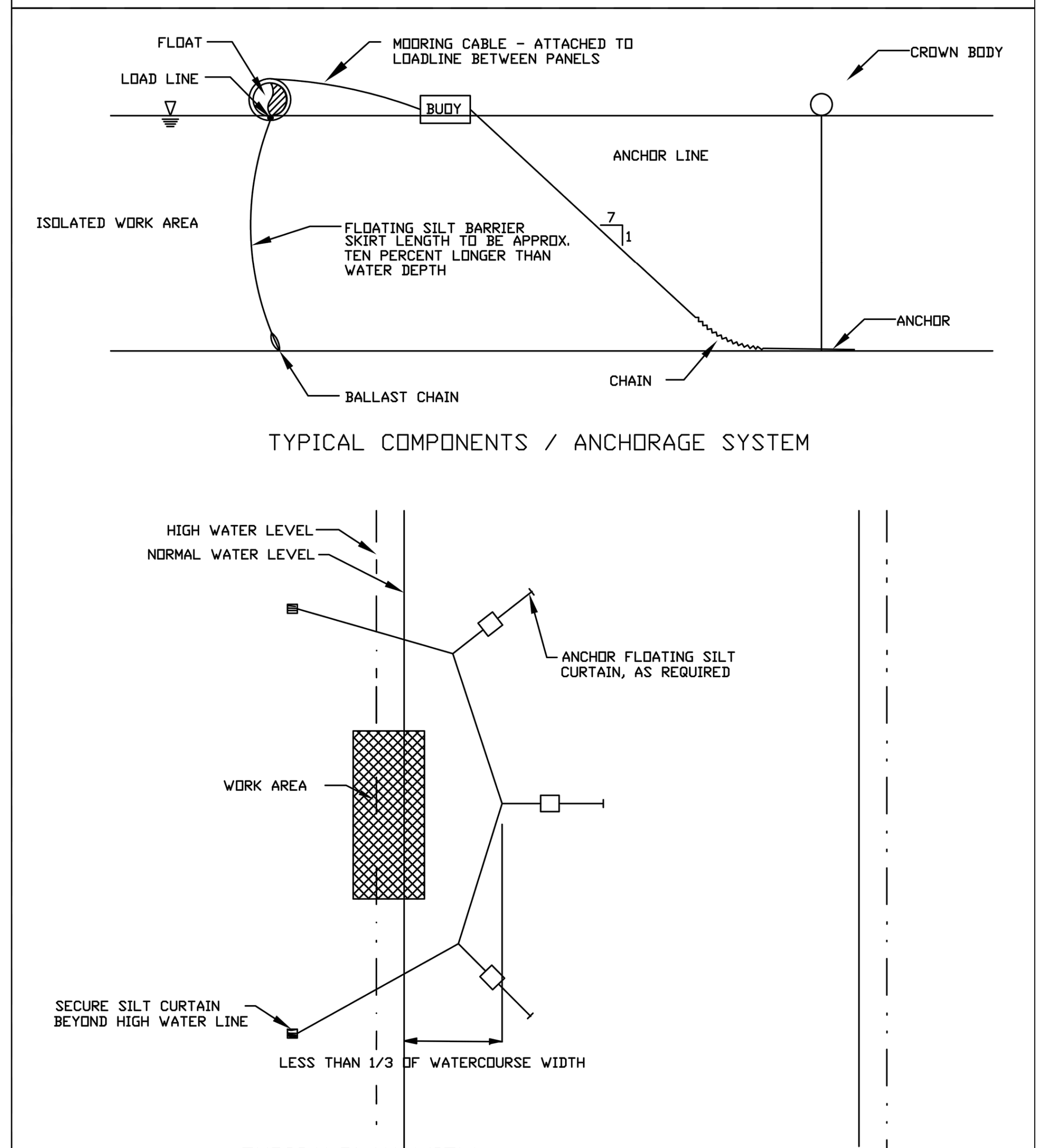
REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
NRCS Natural Resources Conservation Service
STANDARD DWG. NO. IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
NRCS Natural Resources Conservation Service
STANDARD DWG. NO. IL-630
SHEET 2 OF 2
DATE 8-18-94

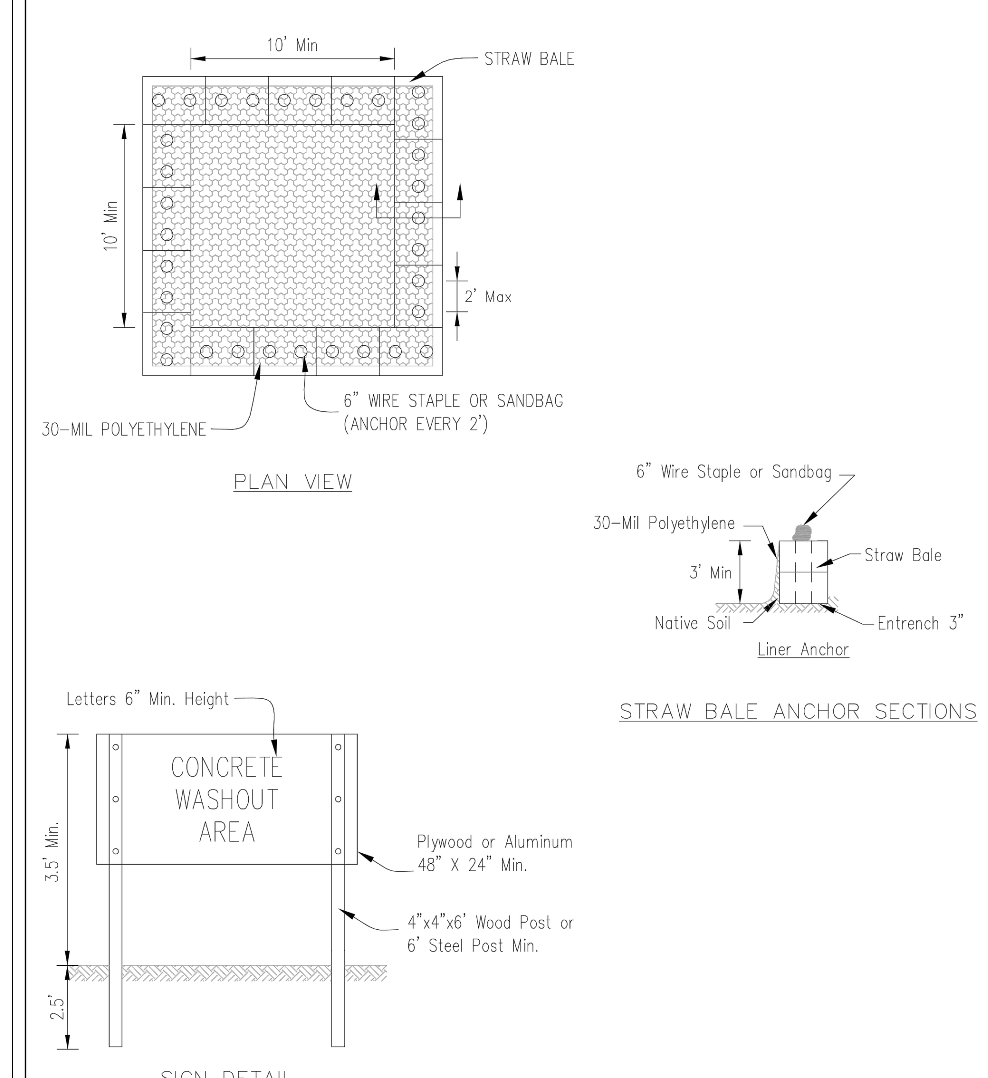
FLOATING SILT CURTAIN - TYPICAL LAYOUT



Maximum flow for waterbody shall be less than 5fps.
Isolated work area shall not exceed more than 1/3 stream width.
Silt curtain shall be placed parallel to stream flow.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____
STANDARD DWG. NO. IUM-617A
SHEET 1 OF 1
DATE 1-06-2012

AUTOCAD2006



NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the faciliities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
Designed ____ Date
Drawn B. JOHNSON 4/08
Checked ____
Approved ____

OAK BROOK PARK DISTRICT 19 62

OAK BROOK PARK DISTRICT

Wight

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

Scott Randall

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	ISSUED FOR PERMITS	11/6/19

CENTRAL PARK NORTH FIELDS PHASE 1

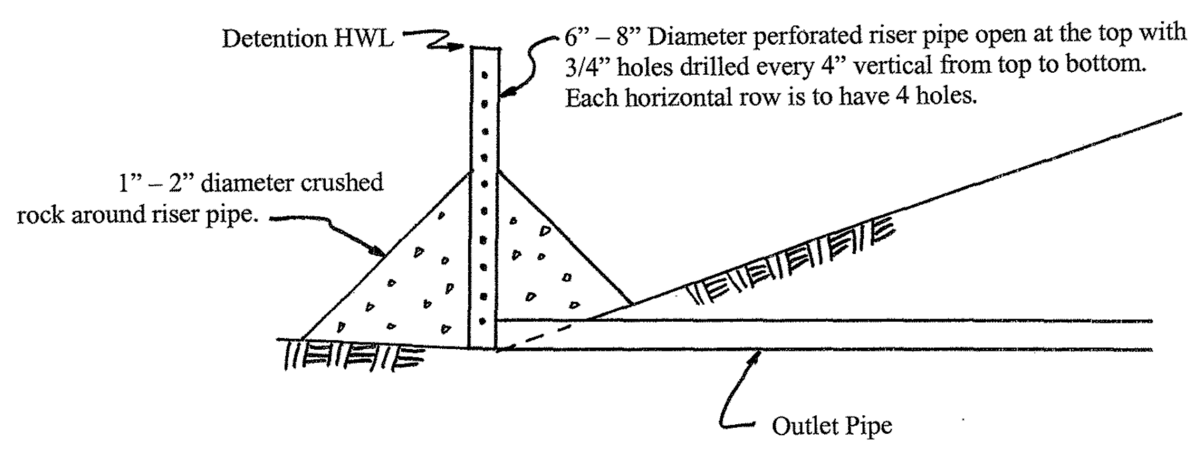
1315 Kensington Rd
Oak Brook, IL 60523

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Project Number: 190083
Drawn By: BEH
Sheet:

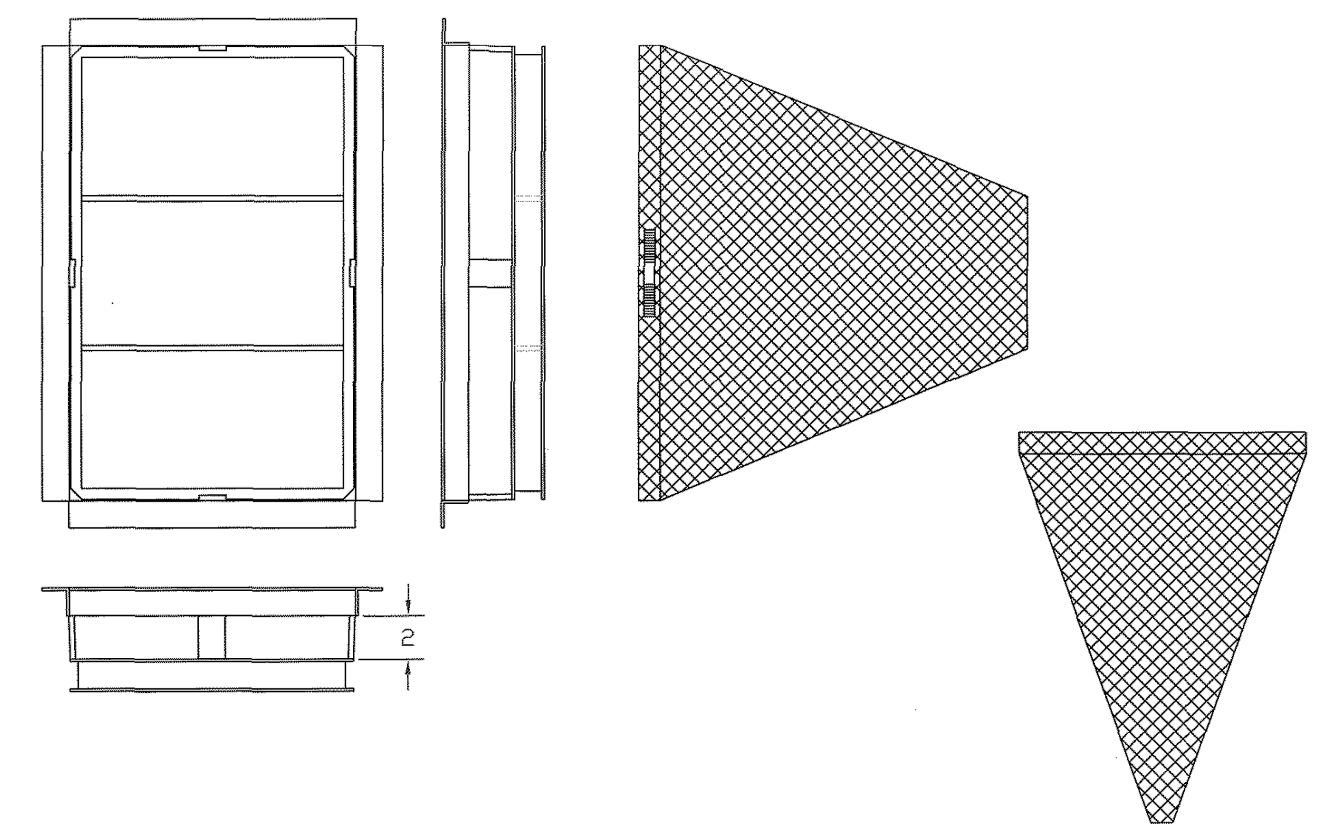
C2.04

SD 24 Page 120



TEMPORARY PERFORATED RISER PIPE DETAIL

SD13 Page 77



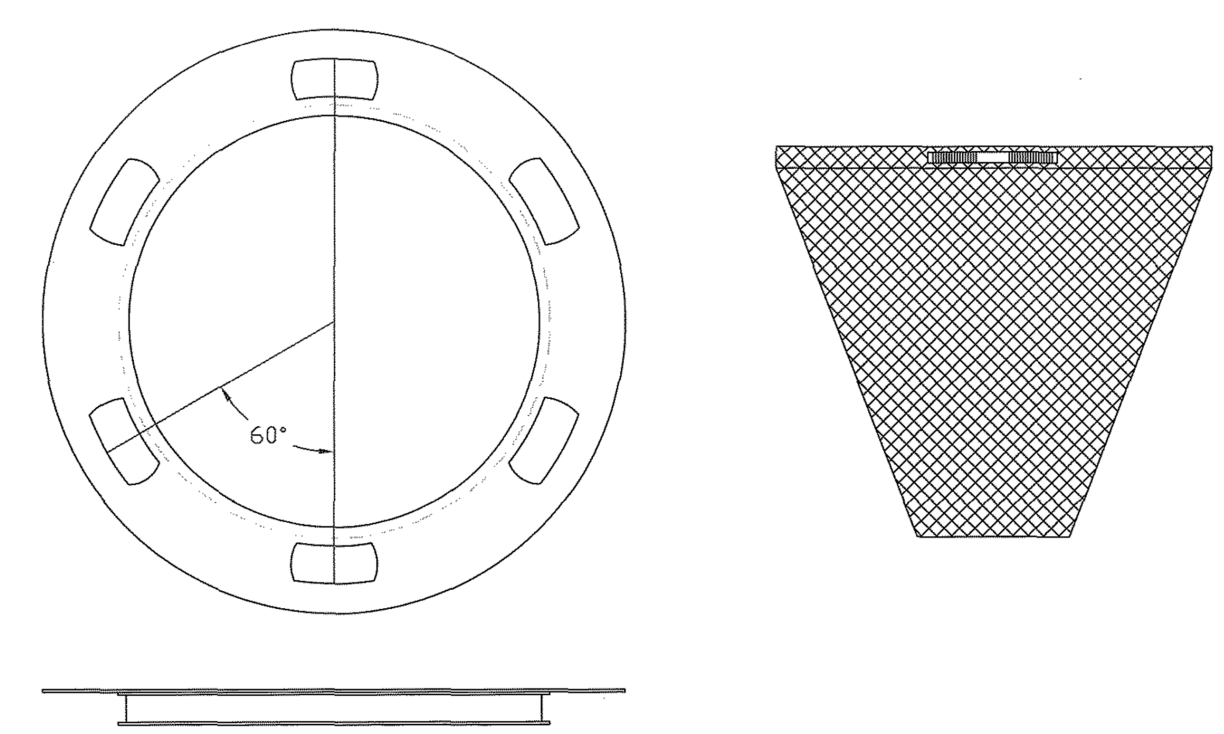
GENERAL NOTES:
FRAME: Top flange fabricated from 1¼"x1¼"x⅛" angle. Base rim fabricated from 1½"x½"x⅛" channel. Handles and suspension brackets fabricated from 1¼"x¼" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-22-02	Original

Typical Rectangular Catch-All

Marathon Materials, Inc.

SD15 Page 79



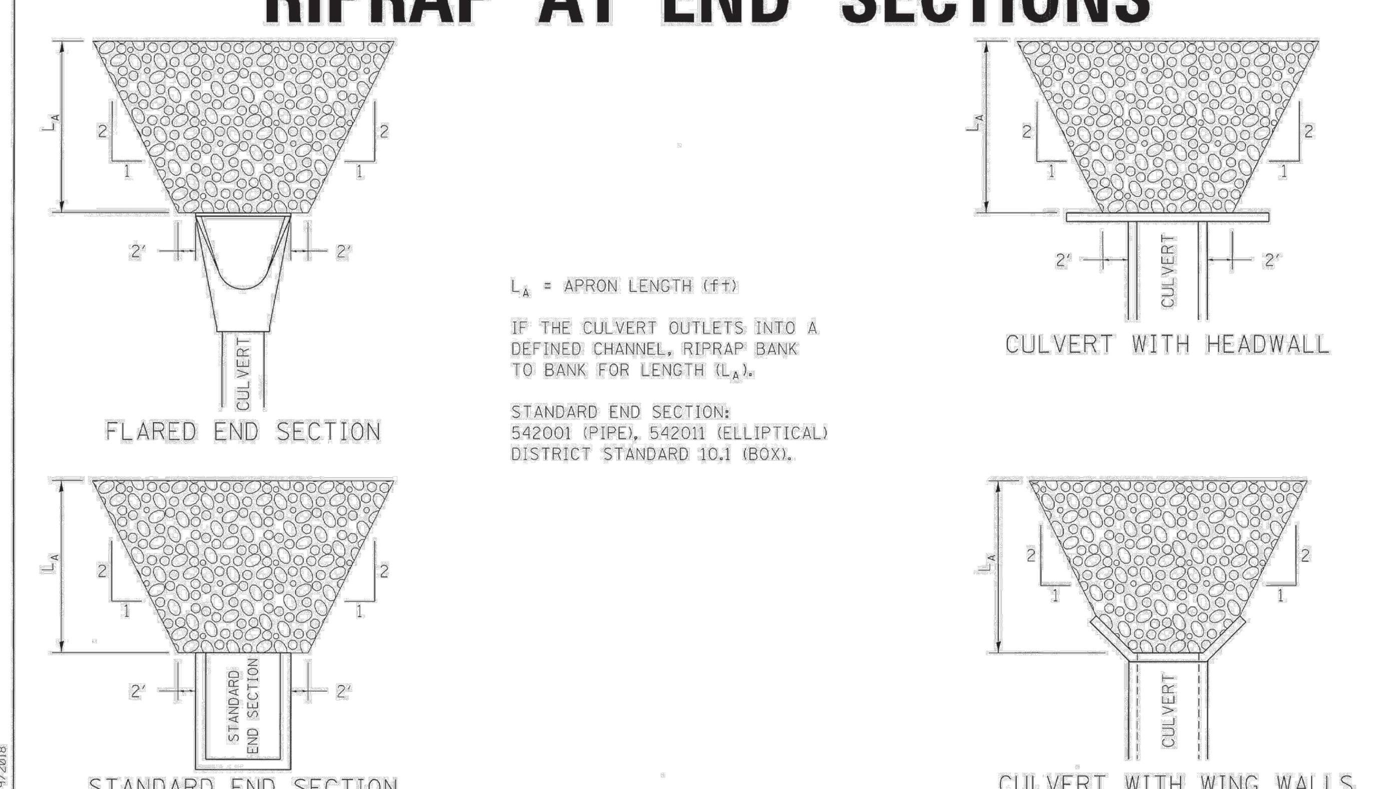
GENERAL NOTES:
FRAME: Top flange fabricated from 1¼"x1¼"x⅛" angle. Base rim fabricated from 1½"x½"x⅛" channel. Handles and suspension brackets fabricated from 1¼"x¼" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-22-02	Original

Typical Beehive Catch-All

Marathon Materials, Inc.

RIPRAP AT END SECTIONS



L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).

PLOT DATE = 4/19/2018

REVISED - 7-13-16
REVISED - 11-12-14
REVISED - 2-10-14
REVISED -

REGION 2 / DISTRICT 2 STANDARD

SCALE: 1.0000 '/ in. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

RIPRAP AT END SECTIONS 19.4

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
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	ISSUED FOR PERMITS	11/6/19

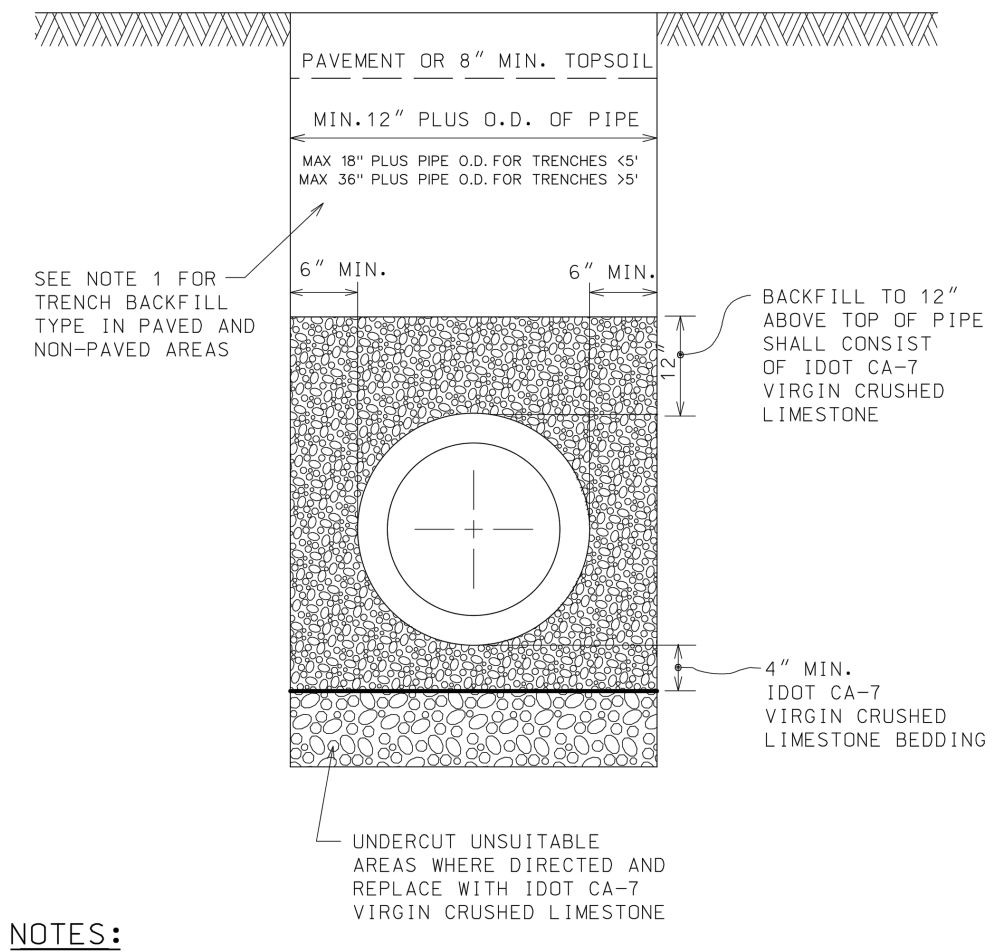
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Project Number:
190083
Drawn By:
BEH
Sheet:

C2.05



NOTES:

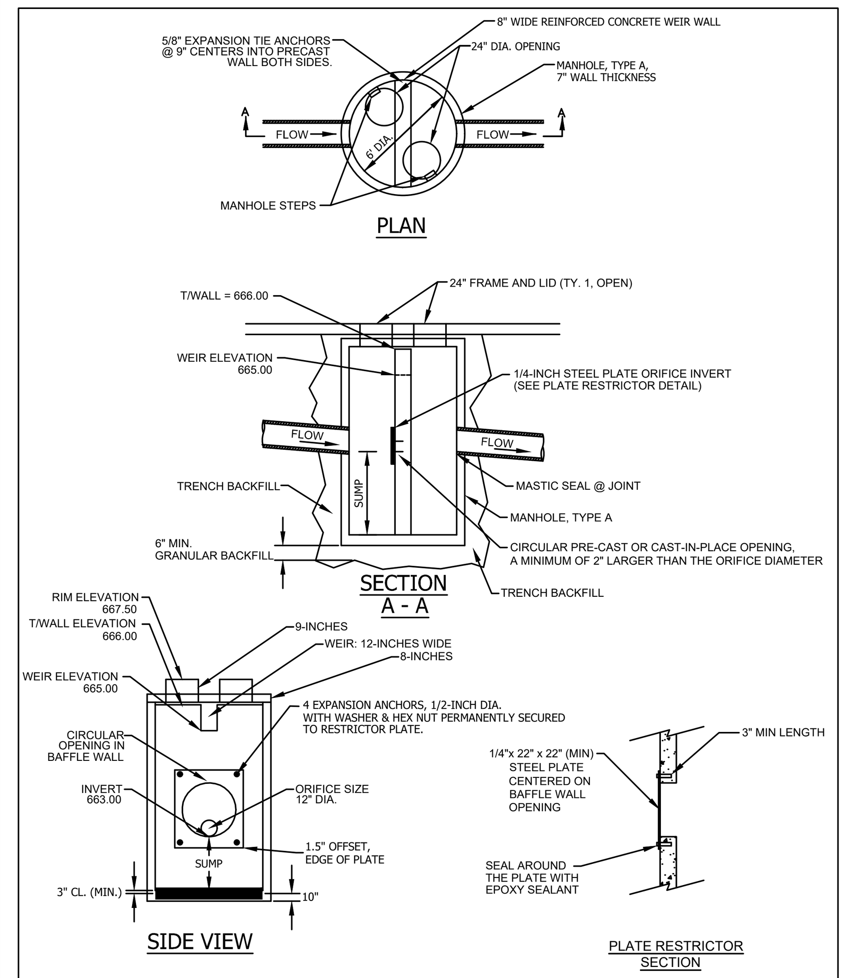
1. TRENCH BACKFILL MATERIAL SHALL CONSIST OF CA-7 (VIRGIN CRUSHED LIMESTONE) UNDER PAVED AREAS OR WITHIN ZONE OF INFLUENCE. OR FA-6 (CLEAN BROWN BEACH SAND) IN NON-PAVED AREAS.
2. ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING NOT ALLOWED)
3. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
4. ALL STORM SEWER SMALLER THAN 15" DIA. THAT WILL BE PUBLICLY OWNED & MAINTAINED SHALL BE RIGID PVC PIPE, MINIMUM SDR 26 WITH PUSH-ON GASKET JOINTS.

NOT TO SCALE

PVC PIPE TRENCH DETAIL

DATE: 3-26-13

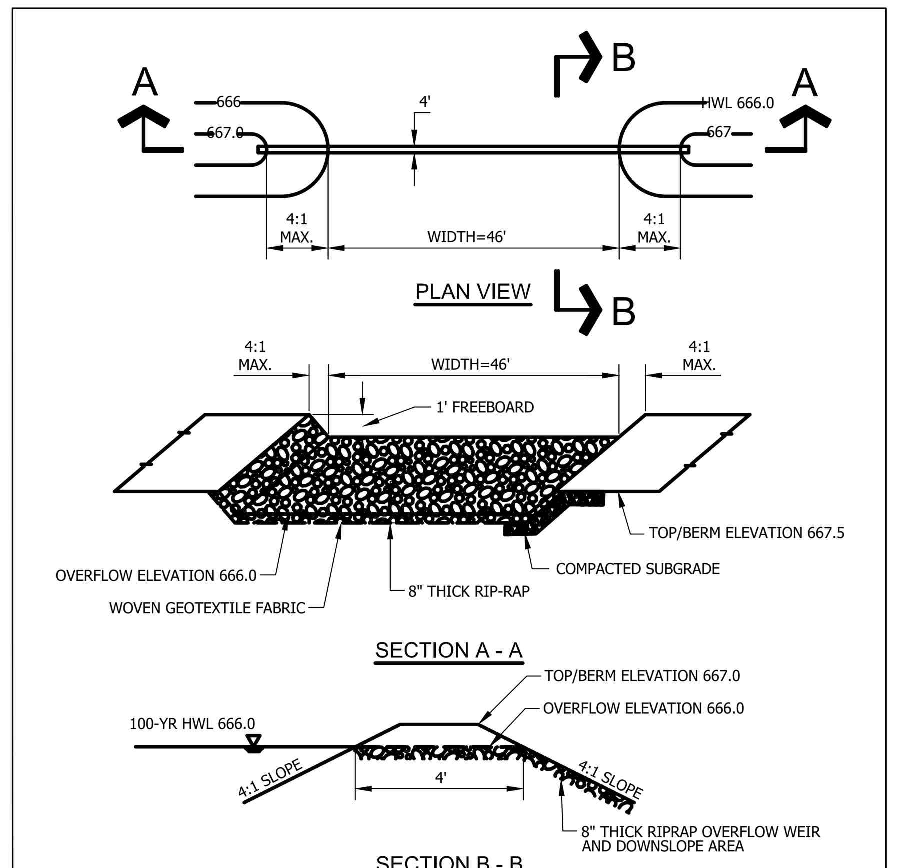
A-5



NOTES:
1. STRUCTURE AND BAFFLE WALL FABRICATED USING REINFORCED PORTLAND CEMENT CONCRETE.
2. RESTRICTORS LESS THAN 4" IN DIAMETER PROVIDE HOOD/SNOUT OR WIRE MESH
3. BAFFLE WALL PERMANENTLY INSTALLED AS PRECAST OR CAST-IN-PLACE
4. PIPE TO STRUCTURE CONNECTIONS SHALL BE ASTM C923 IN COMBINED SEWER AREAS.
5. CAUTION: 1/4-INCH STEEL PLATE DIMENSIONS TO BEST FIT PROPOSED STRUCTURE.
6. ANCHOR EMBEDMENT SHALL BE 3-INCHES MINIMUM.
7. SEE STRUCTURAL PLANS FOR REINFORCEMENT DETAILS.

NOT TO SCALE

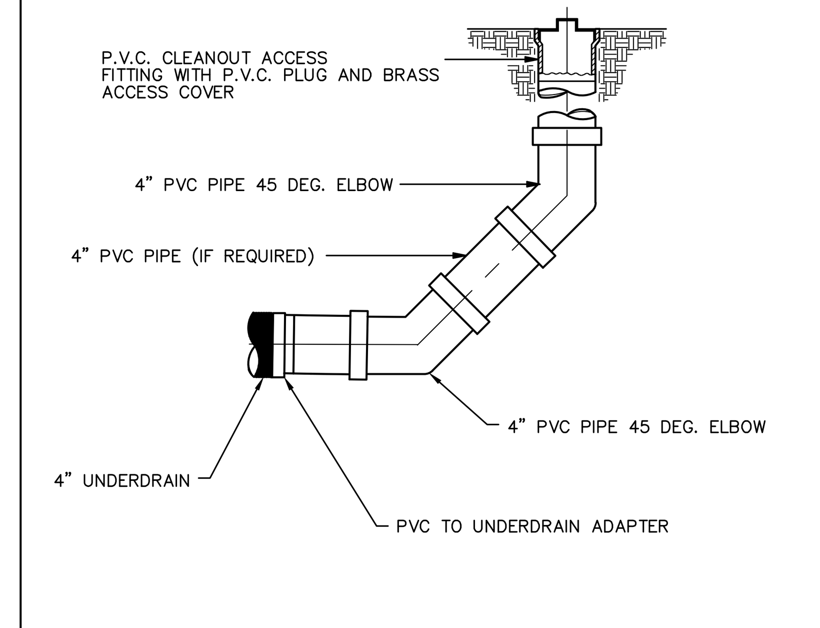
TECHNICAL GUIDANCE MANUAL	10/04/2018
TYPICAL OUTLET CONTROL STRUCTURE (WALL) DETAIL	STD. DWG. NO.25 PAGE NO. 26



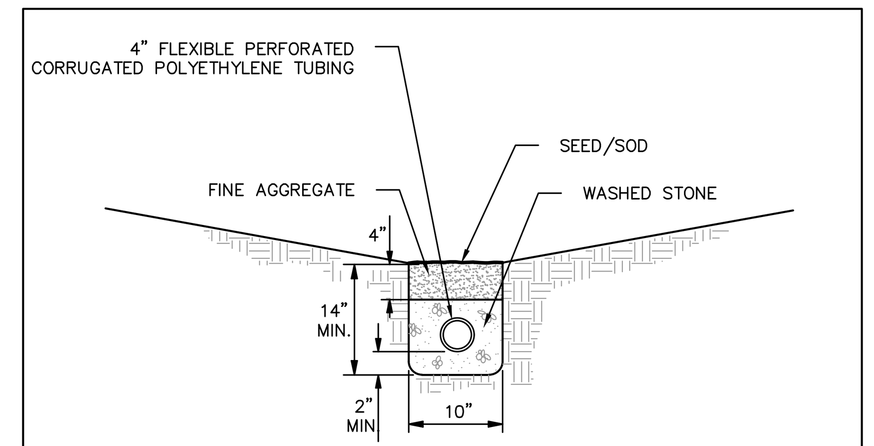
NOTES:
1. FINISHED FLOOR ELEVATIONS OF ADJACENT STRUCTURE SHALL BE ELEVATED AT LEAST ONE FOOT ABOVE PEAK 100-YEAR WATER SURFACE ELEVATION THROUGH OVERFLOW WEIR.
2. WOVEN GEOTEXTILE FABRIC SHALL MEET OR EXCEED STANDARDS OF IUM MATERIAL SPECIFICATION 592, TABLE 1, CLASS I, II, OR III.

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL	7/1/15
TYPICAL EMERGENCY OVERFLOW WEIR	STD. DWG. NO.22 PAGE NO. 23



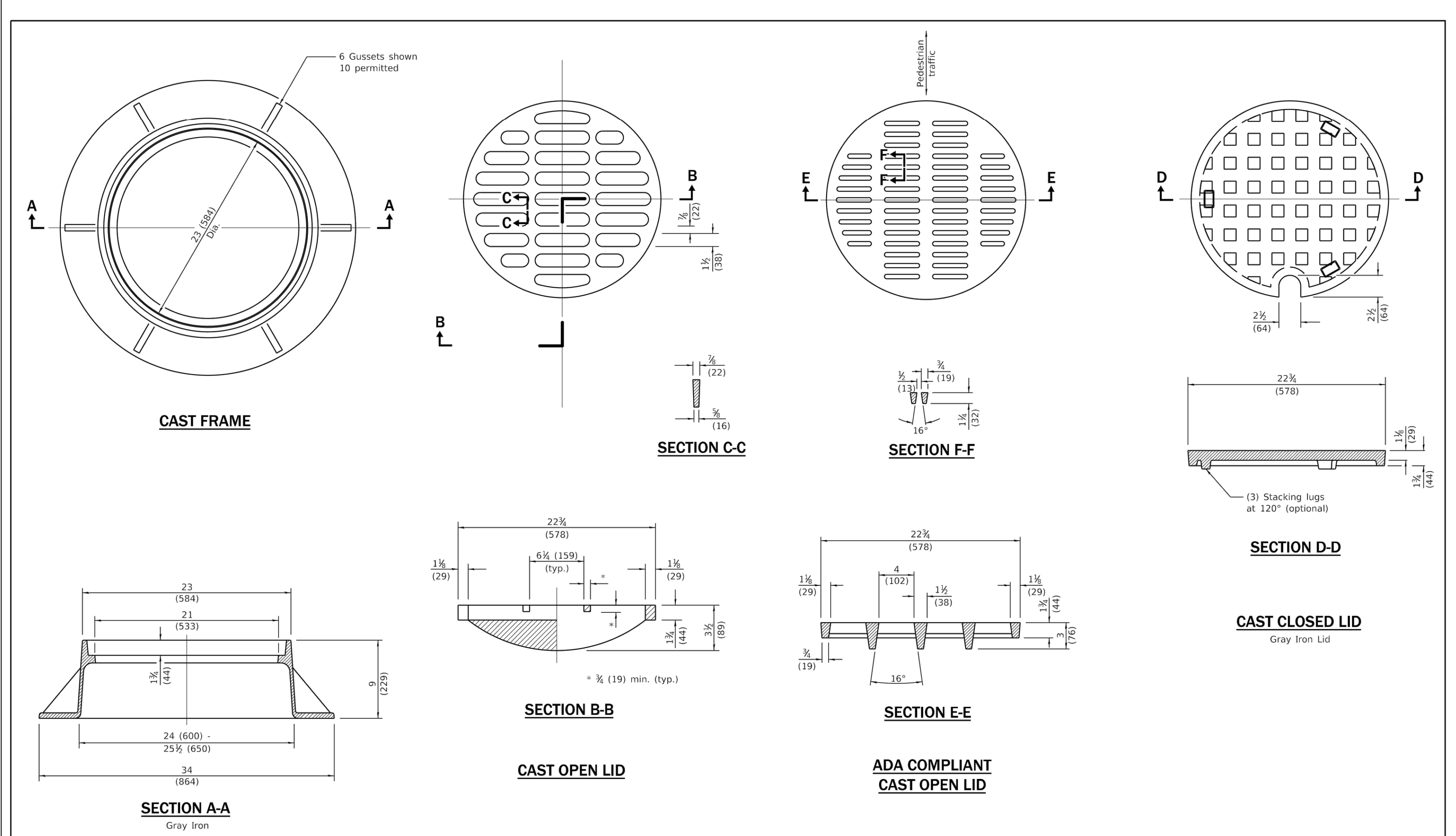
UNDERDRAIN CLEANOUT
N.T.S.



TYPICAL UNDERDRAIN NOTES:

1. UNDERDRAIN TO BE 4" DIA. PERFORATED FLEXIBLE CORRUGATED POLYETHYLENE, MANUFACTURED WITH HIGH DENSITY POLYETHYLENE RESINS.
2. FITTINGS TO BE SNAP TYPE, OF SAME MATERIAL AND MANUFACTURER AS TUBING.
3. ENDS OF TUBING SHALL HAVE AN ACCESSIBLE CLEAN OUT.
4. TUBING AND FITTINGS AS MANFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. (ADS) OR APPROVED EQUAL.
5. WASHED STONE: WASHED GRAVEL, ⅜" – ⅝".
6. FINE AGGREGATE BACKFILL: FA1 OR FA2

UNDER DRAIN INSTALLATION
N.T.S.



"STORM" ON CLOSED LIDS

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-20	Revised dimension in Section B-B of cast open lid.
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.
1-1-09	Switched units to English (metric).

Illinois Department of Transportation

FRAME AND LIDS TYPE 1

STANDARD 604001-05

OAK BROOK PARK DISTRICT

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

Civil Engineer

WBK Engineering, LLC
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	ISSUED FOR PERMITS	11/6/19

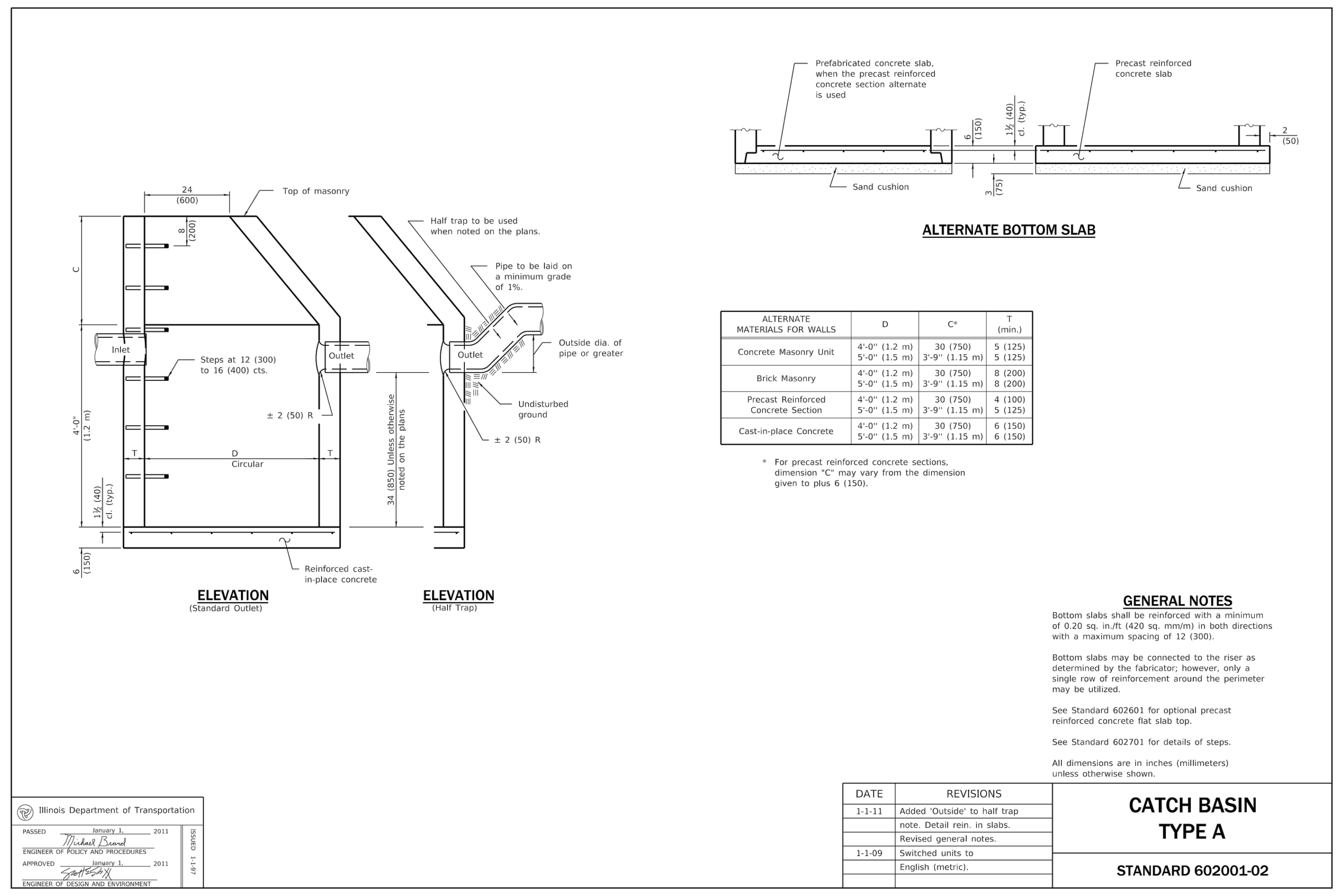
CENTRAL PARK NORTH FIELDS PHASE 1

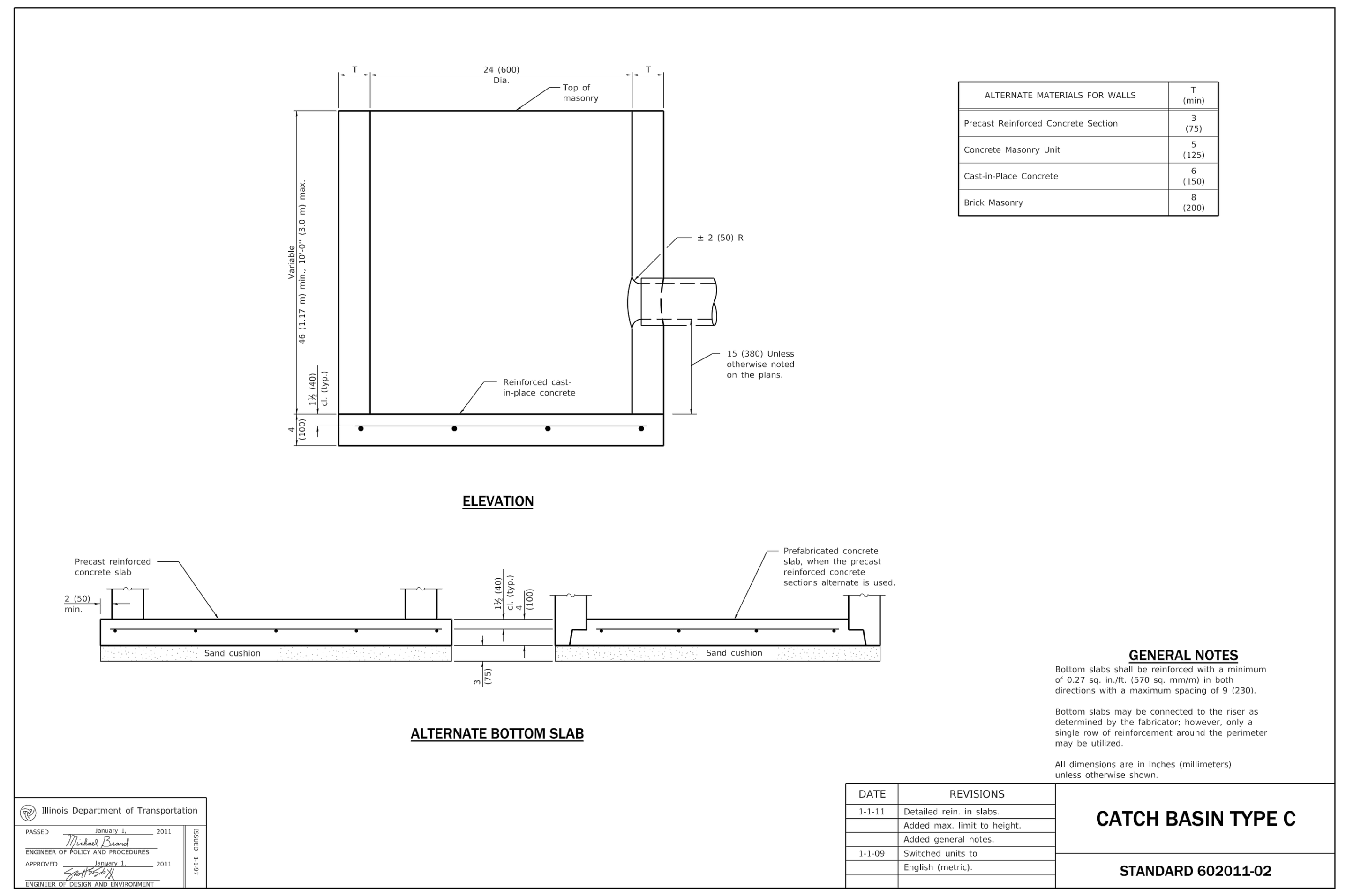
1315 Kensington Rd
Oak Brook, IL 60523

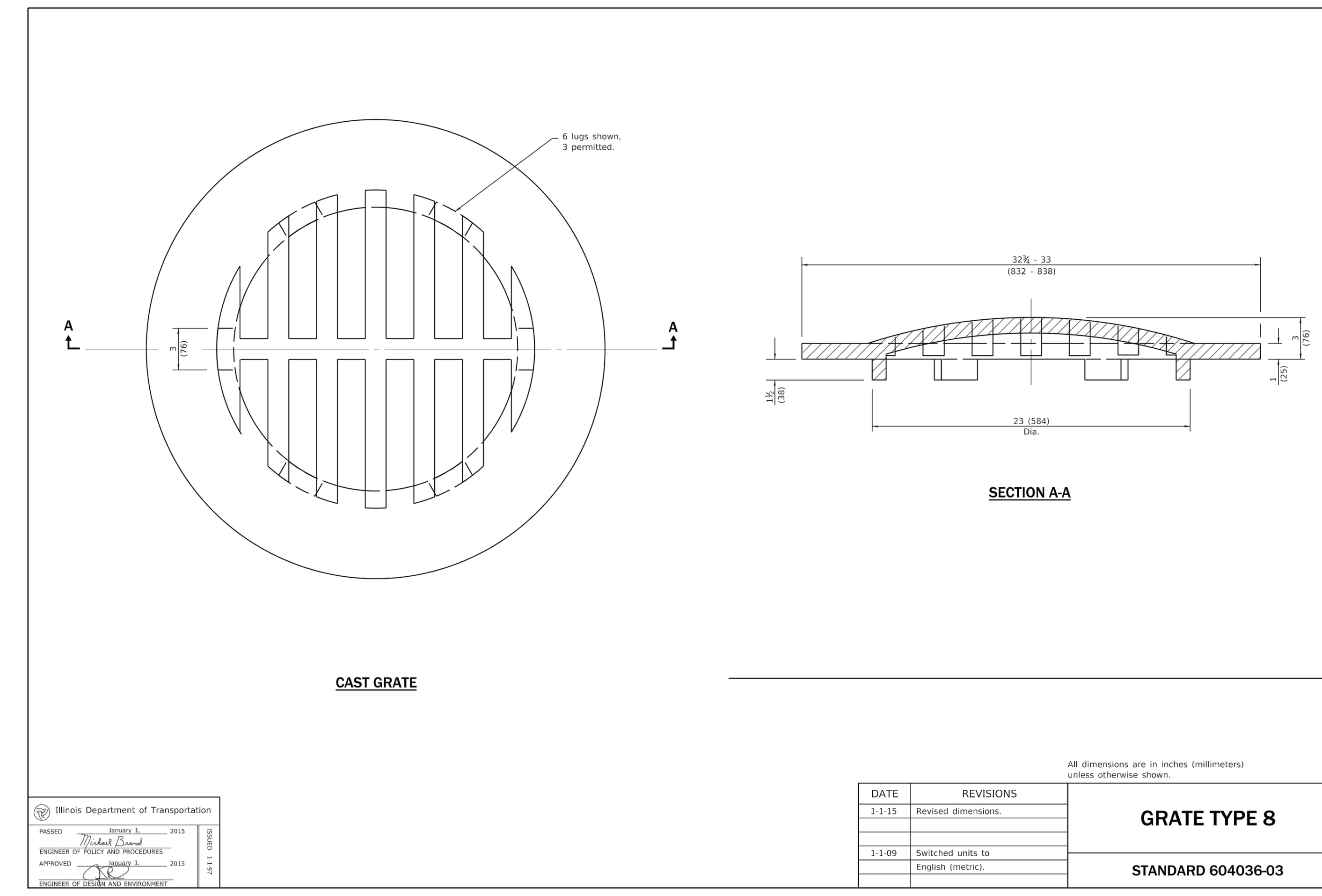
ENGINEERING DETAILS

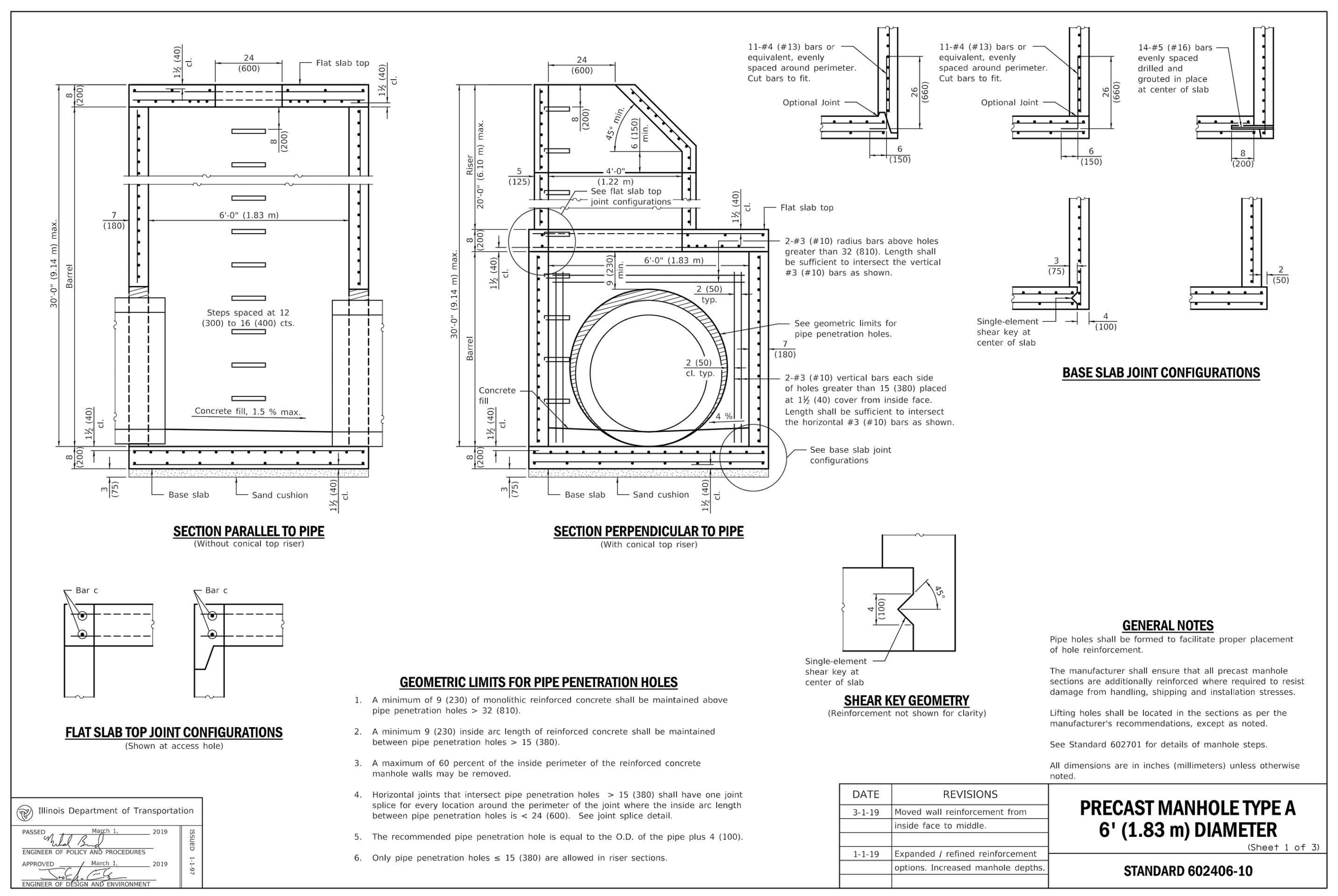
Project Number:
190083
Drawn By:
BEH
Sheet:

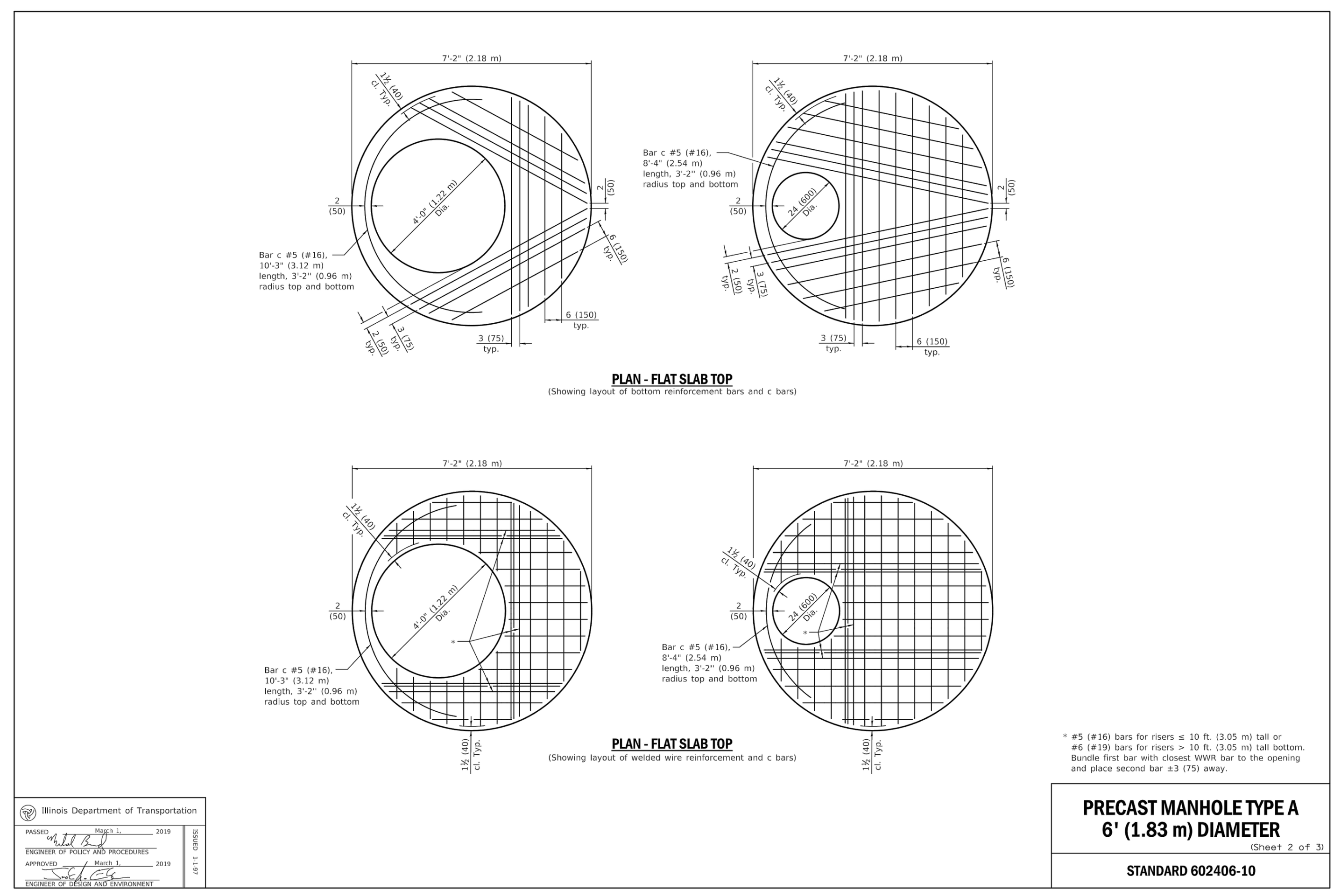
C3.01

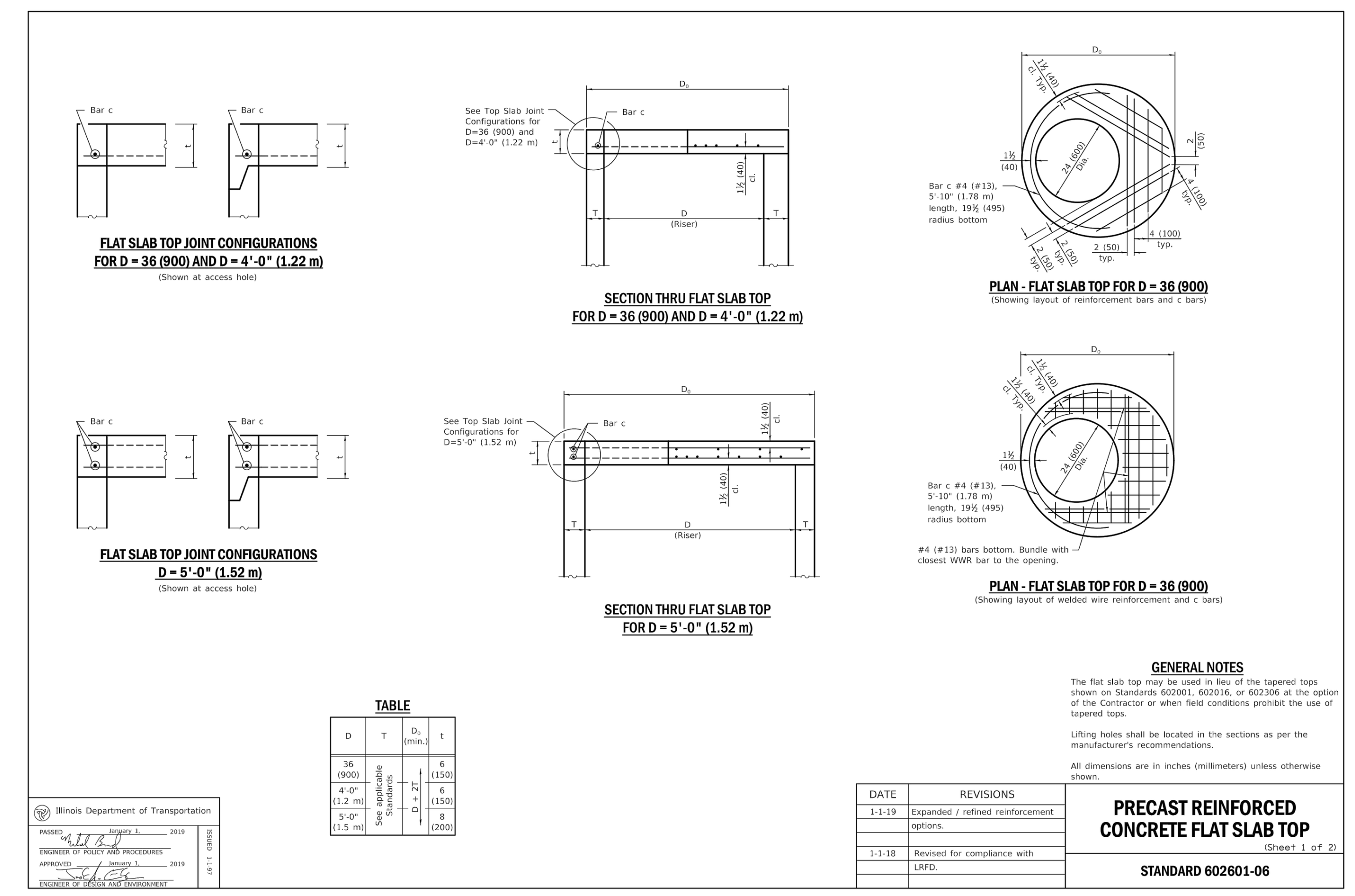


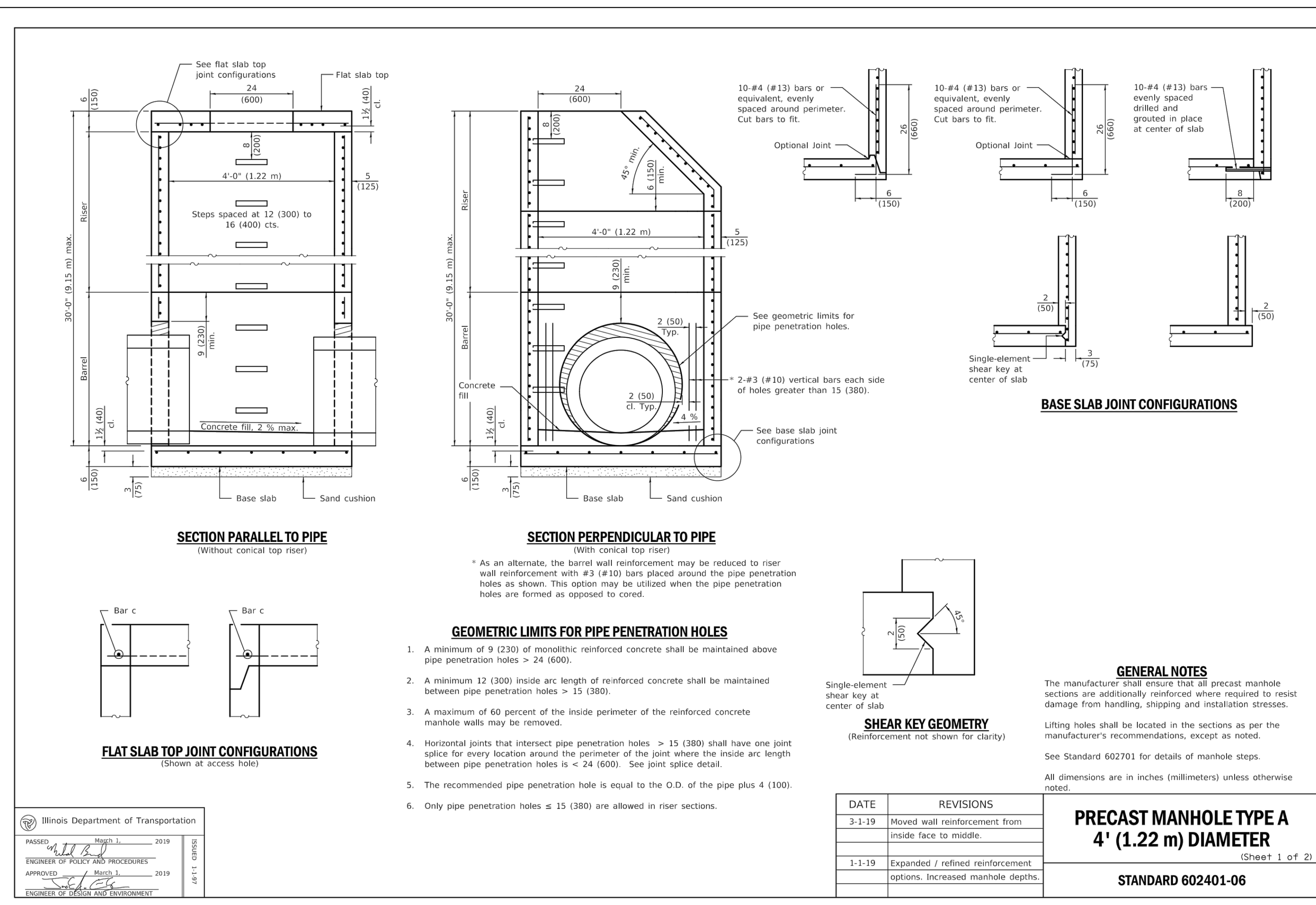


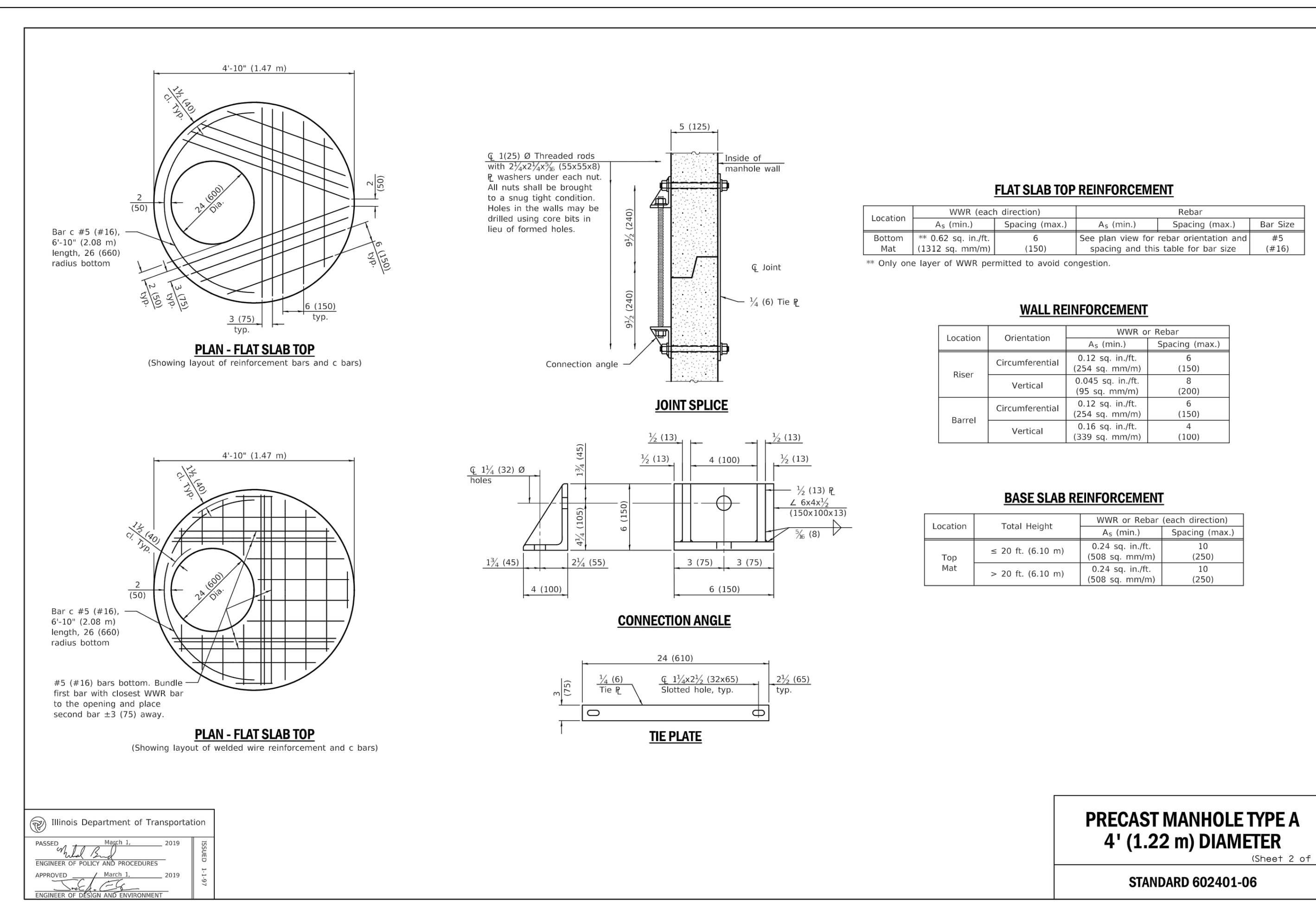


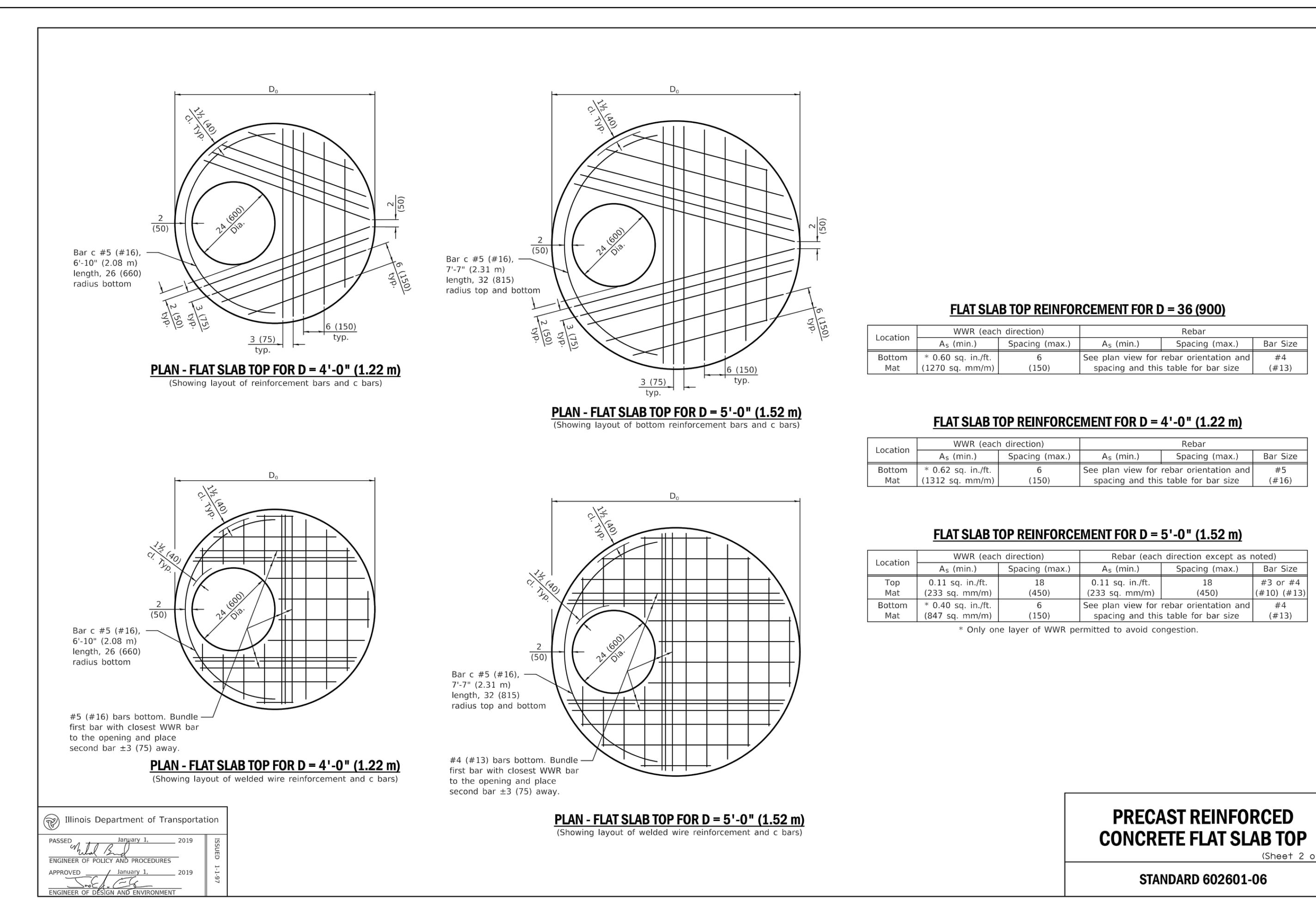












OAK BROOK PARK DISTRICT

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

Scott Randall

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/17/20
	ISSUED FOR BID/PERMITS	02/14/20
	ISSUED FOR BID/PERMITS	02/04/20
	ISSUED FOR PERMITS	11/6/19

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

ENGINEERING DETAILS

Project Number:
190083
Drawn By:
BEH
Sheet:

C3.02

GENERAL NOTES

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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 PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS 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.

13. 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.

14. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.

16. CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY HIM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.

17. PROVIDE NEW, TYPED, UPDATED PANELBOARD DIRECTORIES FOR ALL PANELS AFFECTED BY THIS PROJECT, NEW AND EXISTING.

ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE AND SHALL CONFORM TO ALL LOCAL CODES.
2. PERMITS WILL BE APPLIED FOR AND PAID FOR BY OWNER. COST OF RE-INSPECTION FEES DUE TO FAILED INSPECTIONS ARE TO BE PAID BY CONTRACTOR.
3. ALL MATERIAL AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY THE ENGINEER.
4. THIS CONTRACTOR SHALL PROVIDE ALL HIS OWN RIGGING, SCAFFOLDING, RUBBISH REMOVAL AND LEAVE SPACE BROOM CLEAN.
5. MINIMUM SIZE CONDUIT SHALL BE 3/4" E.M.T.
6. MINIMUM SIZE WIRE SHALL BE #12 THHN, WITH #14 USED FOR CONTROL WIRING.
7. 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.
8. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING INCLUDING SLEEVES AND INSERTS.
9. 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.
10. BEFORE SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS ON THE PROJECT.
12. 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	1P	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	Φ	PHASE

ELECTRICAL SYMBOL LIST

20A, 2P, 3 WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 16" A.F.F. UNLESS NOTED OTHERWISE, IVORY IN COLOR.

"WP/GFCI" REPRESENT, GFCI RECEPTACLE WITH WEATHER PROOF BUBBLE PLASTIC COVER

CONDUIT INSTALLED BELOW GRADE. SEE POWER PLAN FOR CONDUIT AND WIRE SIZES

OAK BROOK PARK DISTRICT

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

Civil Engineer

WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

REV	DESCRIPTION	DATE
	ISSUED FOR BID	03/18/2020
1	PERMIT CORRECTIONS	02/21/2020
	ISSUE FOR BID/PERMIT	02/04/2020

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS

Project Number:
190083
Drawn By:

Sheet:
E0.1

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

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.

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 <u>NOT OCCUPY THE SAME WIRING ENCLOSURE, CABLE OR RACEWAY.</u>

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-I ALL ISOLATED GROUND RECEPTACLES SHALL BE SIMILAR TO HUBBELL IG5362, UNLESS NOTED OTHERWISE. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE SIMILAR TO HUBBELL GF-5362-I.

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 RKI 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. AT FUSIBLE 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.

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

	ISSUED FOR BID	03/18/2020
1	PERMIT CORRECTIONS	02/21/2020
	ISSUE FOR BID/PERMIT	02/04/2020
REV	DESCRIPTION	DATE

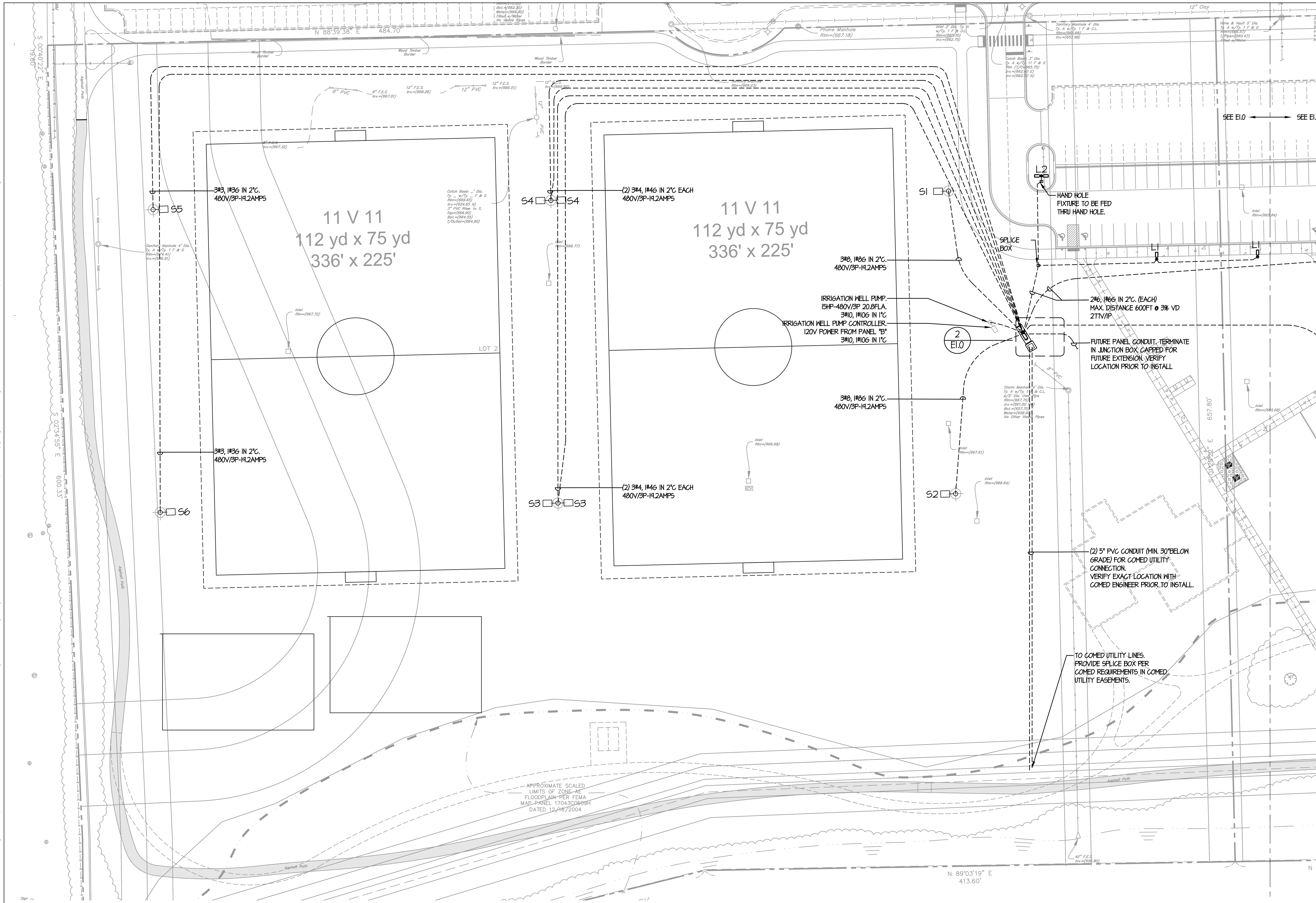
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

ELECTRICAL SPECIFICATIONS

Project Number: 190083
Drawn By:
Sheet:

E0.2

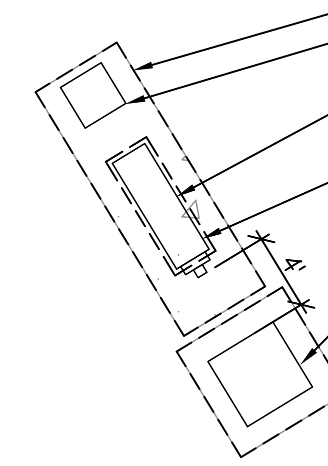


1
E1.0
ELECTRICAL SITE PLAN
SCALE: 1" = 40' – 0"

BIDDING NOTES:
MUSCO SPORTS LIGHTING (TYPE S1 THRU S6) TO BE INSTALLED BY OTHERS INCLUDING ALL WIRING, CONDUIT, CONTROLLERS, POLES, ETC. HAND HOLES JUNCTION BOXES AS REQUIRED BY LOCAL ELECTRICAL CODES.

HANDHOLE NOTE: ALL HAND HOLES SHALL BE SPORTSFIELD SPECIALITIES COMBOX PLUS OR (APPROVED EQUAL):
1. INSTALLED IN TRACK SURFACE = 3000-MS SERIES
2. INSTALLED IN TURF = 3500 SERIES
3. INSTALLED IN NATURAL GRASS = 3551 SERIES
4. INSTALLED IN CONCRETE OR ASPHALT = 3312 SERIES

PROVIDE ALL 2x4 FRAMING REQUIRED AROUND THESE BOXES. 2x4 SHALL BE CONSTRUCTED OF RECYCLED PLASTICS. ALL BOXES LOCATED ALONG RUNNING LANES FOR THE TIMING SYSTEM SHALL BE LOCATED AGAINST CURB.



2
E1.0
ENLARGED PLAN – ELECTRICAL
SCALE: 1/8" = 1' – 0"

OAK BROOK PARK DISTRICT

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wightco.com
2500 North Frontage Road
Darien, IL 60561
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OVERALL ELECTRICAL SITE PLAN

Project Number: 190083
Drawn By:
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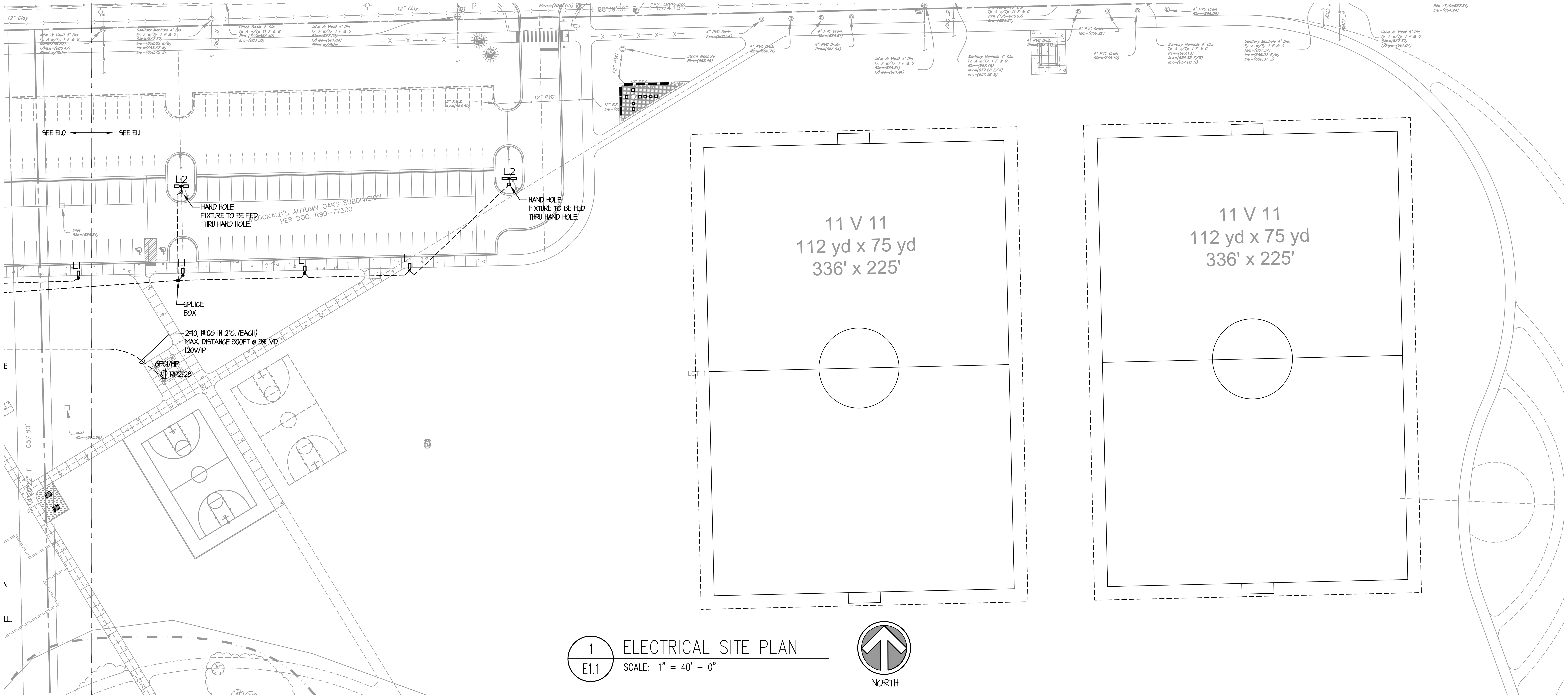

1
E1.1
ELECTRICAL SITE PLAN
SCALE: 1" = 40' - 0"

HANDHOLE NOTE: ALL HAND HOLES SHALL BE SPORTSFIELD SPECIALITIES COMBOX PLUS OR (APPROVED EQAUL).
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F 630.969.7979

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Oak Brook, IL 60523

OVERALL ELECTRICAL SITE PLAN

Project Number:
190083
Drawn By:

Sheet:
E1.1

Schedule

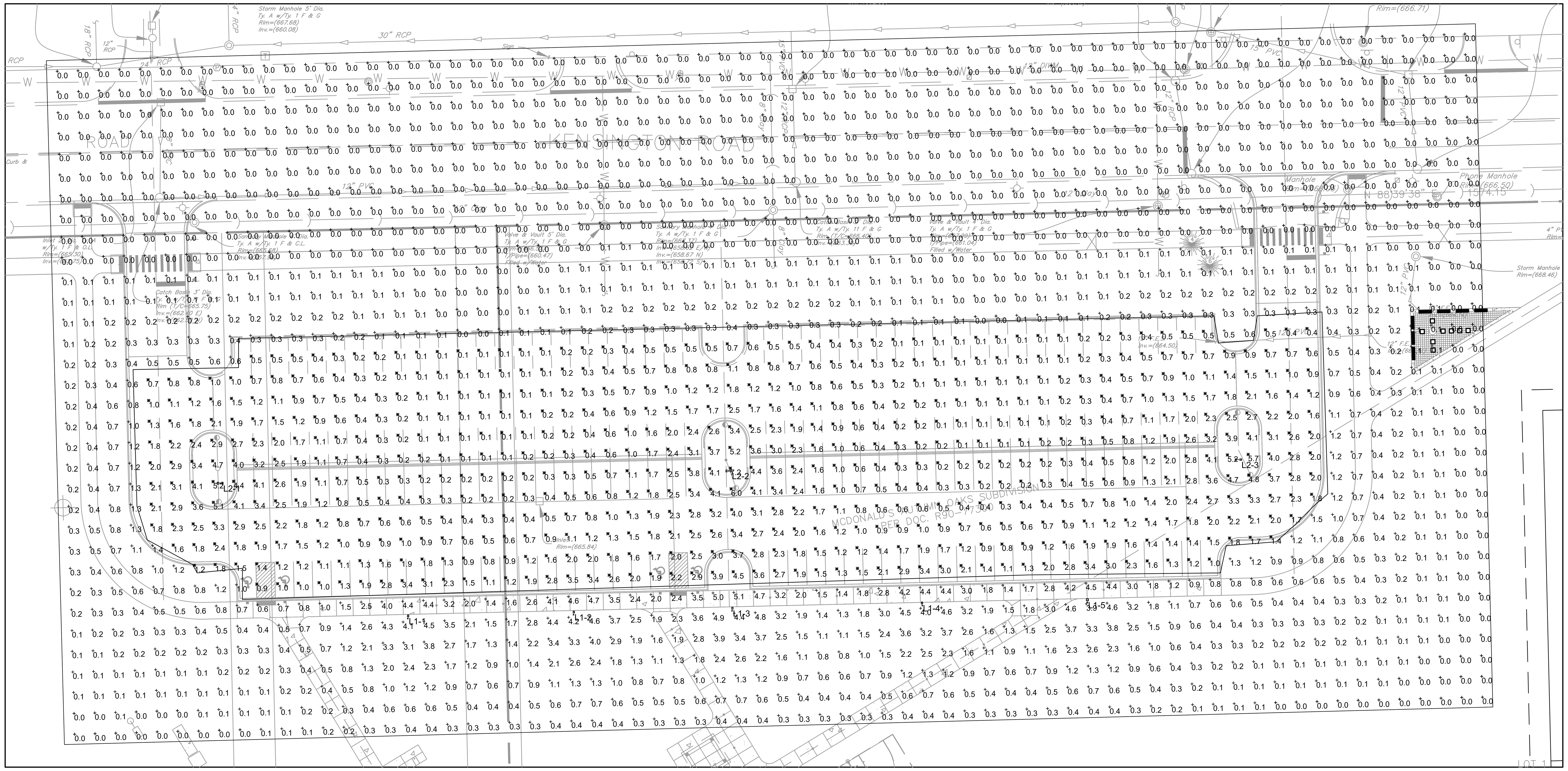
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	L1	5	Lithonia Lighting	DSX1 LED P3 30K VLS	DSX1 LED Visual Comfort, P3 symmetric Type V distribution 30K SQUARE POLE, NLTAIR2-PIRHN-SF	LED	1	DSX1_LED_P3_30K_VLS.ies	15109	0.95	160
	L2	3	Lithonia Lighting	DSX1 LED P5 30K T4M MVOLT	DSX1 LED P5 30K T4M MVOLT SQUARE POLE, NLTAIR2-PIRHN-SF	LED	1	DSX1_LED_P5_30K_T4M_MVOLT.ies	14383	0.95	276

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone Entire Area	+	0.6 fc	7.2 fc	0.0 fc	N/A	N/A
Calc Zone Parking Area	⋇	1.3 fc	7.2 fc	0.1 fc	72.0:1	13.0:1

Luminaire Locations

		Location				
No.	Label	X	Y	MH	Orientation	Tilt
1	L1	165.88	61.00	22.50	0.00	0.00
2	L1	245.88	62.88	22.50	0.00	0.00
3	L1	322.38	64.75	22.50	0.00	0.00
4	L1	414.13	67.25	22.50	0.00	0.00
5	L1	493.88	68.75	22.50	0.00	0.00
1	L2	75.13	126.25	22.50	90.00	0.00
2	L2	320.75	132.25	22.50	90.00	0.00
3	L2	566.75	137.63	22.50	90.00	0.00



1 E1.2 PHOTOMETRIC PLAN
SCALE: N.T.S.

NORTH

OAK BROOK PARK DISTRICT
CENTRAL PARK NORTH FIELDS
PHASE 1 PARKING

Designer
D. MIROW
Date
11/11/2019
Scale
Scale as shown
Drawing No.

Summary

OAK BROOK PARK DISTRICT

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

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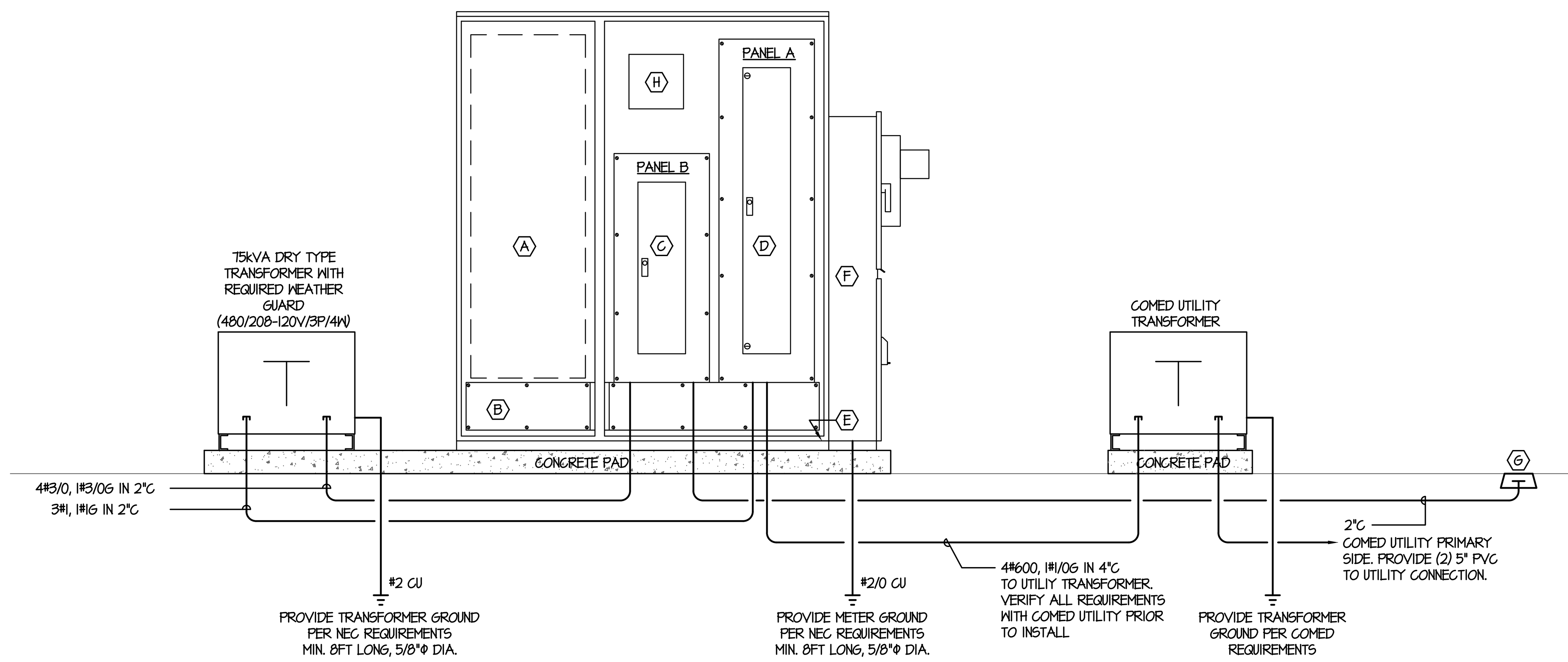
PHOTOMETRIC PLAN

Project Number:
190083
Drawn By:

Sheet:

E1.2

CABINET INSDIDE VIEW



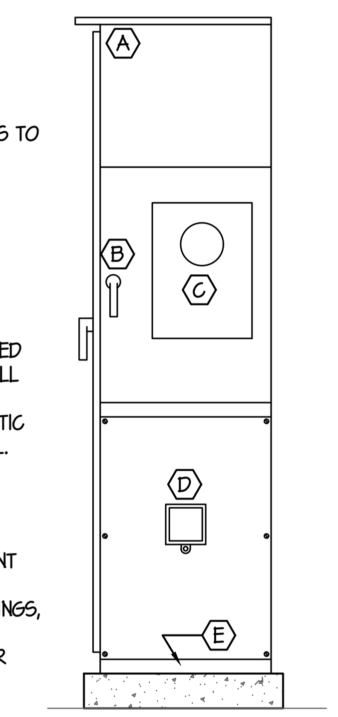
CABINET NOTES:

A. SPACE FOR MUSCO PANEL 24"Wx72"Hx12"D
B. NEMA-1 SCREW COVER TROUGH
C. PANEL B, 200A MCB, 120/208V-3Φ-4W (FEED THRU LUGS TO FEED PANEL C)
D. PANEL A, 400A MCB, 277/480V-3Φ-4W
E. 2" H STAINLESS STEEL BASE
F. METER CABINET
G. FUTURE PANEL CONDUIT. TERMINATE IN JUNCTION BOX, CAPPED FOR FUTURE EXTENSION. VERIFY LOCATION PRIOR TO INSTALL
H. TIME-CLOCK TO CONTROL PARKING LOT LIGHTING, INTERMATIC DIGITAL ASTRONOMICAL 7 DAY PROGRAMMABLE OR EQUAL.

SWITCHBOARD DETAILS:

- DETAILS ARE BASED ON POWER DISTRIBUTION EQUIPMENT CO. (FRANKLIN PARK, IL). ALTERNATE MANUFACTURERS SHALL MEET THE DETAILS AS OUTLINED IN THESE DRAWINGS, NEC AND LOCAL CODE AMENDMENTS.
- SWITCHBOARD SHALL BE MANUFACTURED AS A TYPE 3R OUTDOOR PAD MOUNTED SWITCHBOARD
- CONSTRUCTION SHALL BE 0.125" ALUMINUM WITH 0.125" ALUMINUM FRONTS.
- SWITCHBOARD SHALL BE FRONT ACCESSIBLE ONLY.
- ENTIRE SWITCHBOARD SHALL BE UL LISTED AND LABELED UNDER THE UL STANDARD 891
- SWITCHBOARD SHALL BE PAINTED WITH EPOXY RESIN POWDER COAT PAINT, TIGER DRYLAC U.S. GREEN 39/ 50060 SMOOTH GLOSS
- SWITCHBOARD SHALL HAVE REMOVABLE BOTTOM PLATES
- SWITCHBOARD SHALL HAVE STAINLESS STEEL PADLOCKING HANDLE WITH THREE POINT CATCH

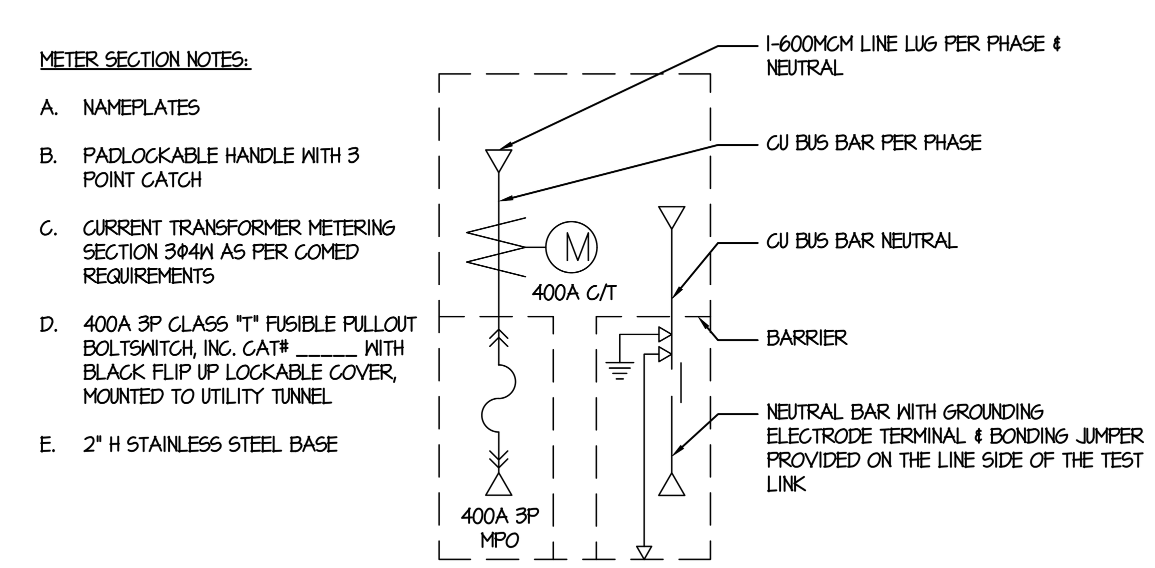
CABINET SIDE VIEW



METER SECTION NOTES:

A. NAMEPLATES
B. PADLOCKABLE HANDLE WITH 3 POINT CATCH
C. CURRENT TRANSFORMER METERING SECTION 304W AS PER COMED REQUIREMENTS
D. 400A 3P CLASS "T" FUSIBLE PULLOUT BOLTSWITCH, INC. CAT# ______ WITH BLACK FLIP UP LOCKABLE COVER, MOUNTED TO UTILITY TUNNEL
E. 2" H STAINLESS STEEL BASE

UTILITY METER ONE LINE DIAGRAM



ELECTRICAL SPECIFICATIONS:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF LOCAL ELECTRICAL CODE.
2. PROVIDE ALL PERMITS AND INSPECTION FEES.
3. ALL MATERIAL AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY THE ENGINEER.
4. THIS CONTRACTOR SHALL PROVIDE ALL HIS OWN RIGGING, SCAFFOLDING, RUBBISH REMOVAL AND LEAVE SPACE BROOM CLEAN.
5. MINIMUM SIZE CONDUIT SHALL BE 3/4" E.M.T.
6. MINIMUM SIZE WIRE SHALL BE #12 THHN, WITH #14 USED FOR CONTROL WIRING.
7. 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.
8. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING INCLUDING SLEEVES AND INSERTS.
9. ALL NEW CIRCUIT BREAKERS SHALL BE "QOB" BOLT-ON BREAKERS (10,000 A.I.C.), OR EQUAL BY G.E. (PROVIDE NEW CIRCUIT BREAKERS COMPATIBLE WITH NEW PANELBOARD). PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.
10. BEFORE SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS ON THE PROJECT.
12. THIS CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT AS MAY BE REQUIRED BY THIS WORK.

NEW SERVICE/ UTILITY WORK:

1. 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.
2. 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.
3. 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.
4. 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.

PANEL SCHEDULE: "A"

LOCATION: CABINET | C.B. RATING: 22 k.A.I.C.
VOLT: 480/277V 3Φ 4W | MAINS: 400A-3P MCB | MOUNTING: SURFACE | TYPE: BOLT-ON
REMARKS:

USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. ΦA	V.A. ΦB	V.A. ΦC	CIR. NO.	C/B	USE AND/OR AREA SERVED
SPORT FIELD LIGHT "S3"	30/3	1	6600 / 6600			2	30/3	SPORT FIELD LIGHT "S4"
		3		6600 / 6600		4		
		5			6600 / 6600	6		
SPORT FIELD LIGHT "S1"	30/3	7	6600 / 6600			8	30/3	SPORT FIELD LIGHT "S2"
		9		6600 / 6600		10		
		11			6600 / 6600	12		
SPORT FIELD LIGHT "S5"	30/3	13	6600 / 6600			14	30/3	SPORT FIELD LIGHT "S6"
		15		6600 / 6600		16		
		17			6600 / 6600	18		
SPORT FIELD LIGHT "S3"	30/3	19	6600 / 6600			20	30/3	SPORT FIELD LIGHT "S4"
		21		6600 / 6600		22		
		23			6600 / 6600	24		
PARKING LOT LIGHTING	20/1	25	600 / 1100			26	20/1	PARKING LOT LIGHTING
S: SPARE	20/1	27				28	20/1	S: SPARE
S: SPARE	20/1	29				30	20/1	S: SPARE
S: SPARE	20/1	31				32	20/1	S: SPARE
S: SPARE	20/1	33				34	20/1	S: SPARE
S: SPARE	20/1	35				36	20/1	S: SPARE
IRRIGATION PUMP AND CONTROLLER	40/3	37	5900 / 7200			38	125/3	75KVA STEP DOWN TRANSFORMER
		39		5900 / 7200		40		
		41			5900 / 7200	42		
TOTAL CONNECTED LOAD PER PHASE:			67600	65900	65900	TOTAL V.A. = 199,400		239.84 AMPS

PANEL SCHEDULE: "B"

LOCATION: CABINET | C.B. RATING: 10 k.A.I.C.
VOLT: 208/120V 3Φ 4W | MAINS: 200A MCB | MOUNTING: SURFACE | TYPE: BOLT-ON
REMARKS: FEED THRU PANEL

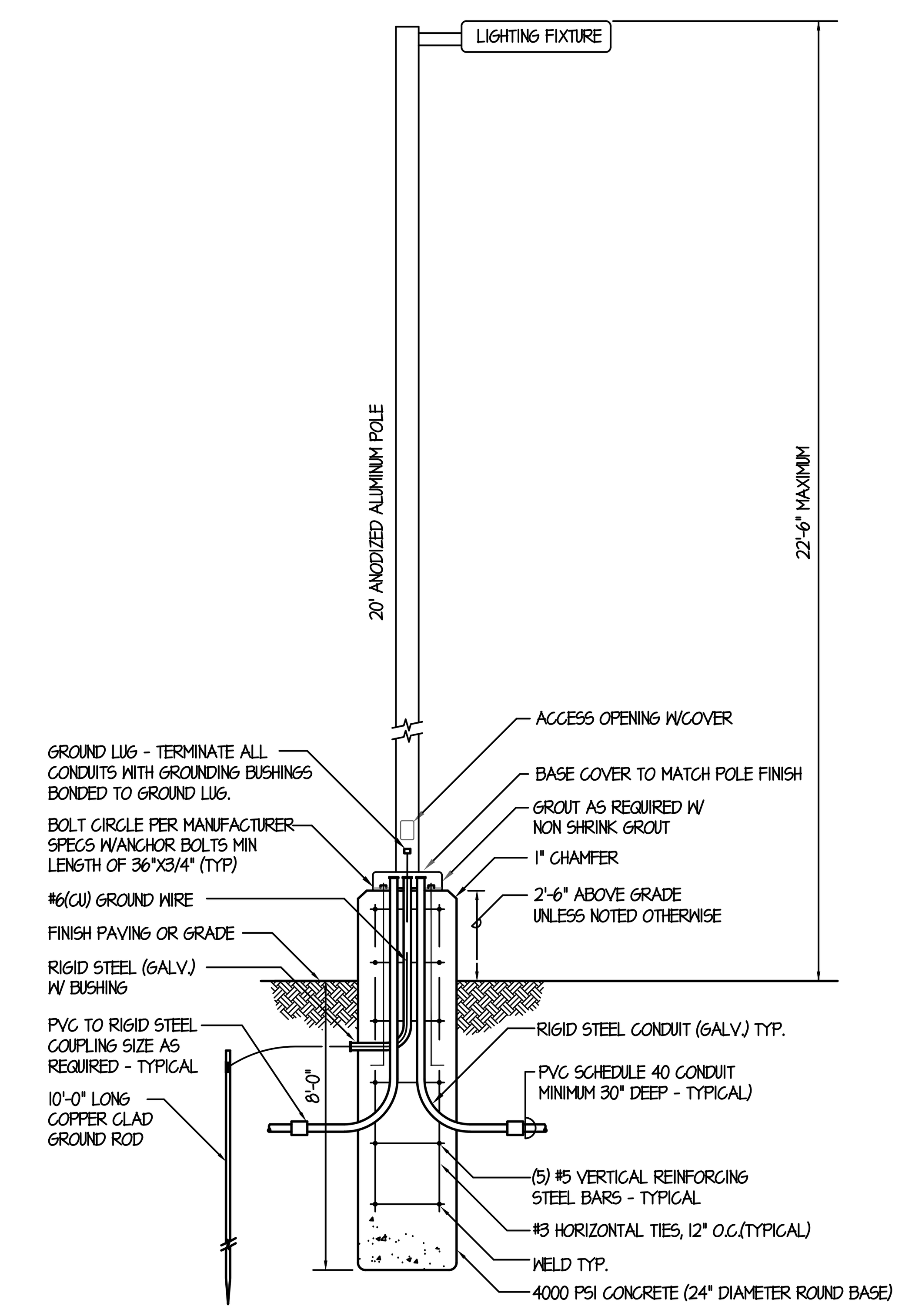
USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. ΦA	V.A. ΦB	V.A. ΦC	CIR. NO.	C/B	USE AND/OR AREA SERVED
FIELD RECEPTACLE	20/1	1	180 / -			2	20/1	IRRIGATION CONTROLLER
S: SPARE	20/1	3		- / -		4	20/1	S: SPARE
S: SPARE	20/1	5			- / -	6	20/1	S: SPARE
S: SPARE	20/1	7	- / -			8	20/1	S: SPARE
S: SPARE	20/1	9		- / -		10	20/1	S: SPARE
S: SPARE	20/1	11			- / -	12	20/1	S: SPARE
S: SPARE	20/1	13	- / -			14	20/1	S: SPARE
S: SPARE	20/1	15		- / -		16	20/1	S: SPARE
S: SPARE	20/1	17			- / -	18	20/1	S: SPARE
S: SPARE	20/1	19	- / -			20	20/1	S: SPARE
S: SPARE	20/1	21		- / -		22	20/1	S: SPARE
S: SPARE	20/1	23			- / -	24	20/1	S: SPARE
S: SPARE	20/1	25	- / -			26	20/1	S: SPARE
S: SPARE	20/1	27		- / -		28	20/1	S: SPARE
S: SPARE	20/1	29			- / -	30	20/1	S: SPARE
TOTAL CONNECTED LOAD PER PHASE:			180	###	###	TOTAL V.A. = 180		0.50 AMPS

CONCRETE PAD NOTES:

1. BOXED OUT OPENING FOR PRIMARY AND SECONDARY CONDUIT. CONDUIT SHALL NOT BE PROJECTED ABOVE THE SURFACE OF THE PAD.
2. 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 DPUE AND PER DPUE SYSTEM STANDARDS.
3. WORKING CLEARANCE SHALL BE KEPT OPEN ON FRONT SIDE OF THE TRANSFORMER AND METER CABINET/DISCONNECT SWITCHES.
4. 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 DPUE.
5. ALL WORK SHALL BE IN COMPLIANCE WITH COMED STANDARDS AND NATIONAL ELECTRICAL CODE.

SITE LIGHTING PLAN GENERAL NOTES:

1. 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.
2. NOT USED
3. 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.
4. SITE LIGHTING PLAN (PHOTOMETRICS AND DESIGN VERIFICATION) SHALL BE SUBMITTED TO THE AUTHORITY PRIOR TO START OF WORK.
5. 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.
6. EACH HEAD OF THE FIXTURE MUST BE WIRED DOWN TO THE HANDHOLE INDEPENDENTLY.
7. 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.



PARKING LOT LIGHTING POLE BASE DETAIL
NO SCALE

OAK BROOK PARK DISTRICT

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2500 North Frontage Road
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CENTRAL PARK NORTH FIELDS PHASE 1

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ELECTRICAL DETAILS

Project Number: 190083
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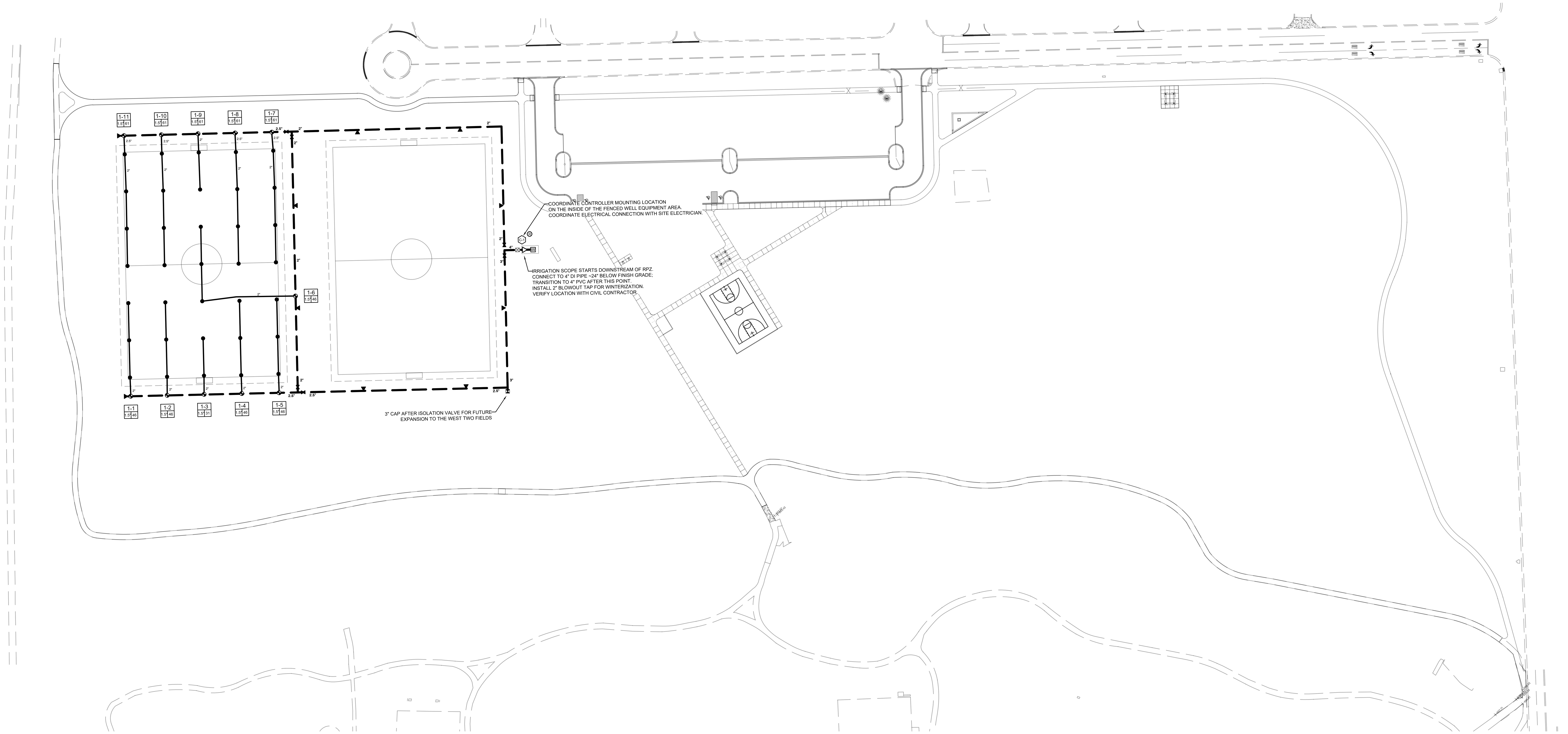
E2.0



LEGEND

- HUNTER I-40-06-SS-ON -- Full Circle Rotor with Opposing Nozzles
  #18 Nozzle, 15.2 GPM; 60 psi
- HUNTER PGV SERIES ELECTRIC VALVE -- Size per Plan
  All valves to utilize Hunter Accu-Sync Pressure Regulation
- HUNTER HQ44-LRC 1" QUICK COUPLER VALVE
  Provide Owner with Valve Keys and Hose Swivels
  (2) HK-44 keys, (2) HS-1 Hose Swivels
- ISOLATION GATE VALVE -- Size to Pipe
- CL 200 PVC Mainline Pipe -- Size per Plan
- CL 200 PVC Lateral Pipe -- 1-40 Rotor Zones - Size per Plan
- CL200 PVC SLEEVE -- Size per Plan
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- 2" THREADED BLOWOUT TAP AFTER THE BACKFLOW PREVENTER
- C-1 HUNTER A2C-75D-SS STAINLESS STEEL WALL MOUNT CONTROLLER
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- R HUNTER RFC (Wired Rain & Freeze) SENSOR
  Wire directly to controller sensor terminal.
  Sensor to be placed in a secure, open-sky location.
  Coordinate final location with Owner.
- REMOVABLE THRUST BLOCK
  Place a 1/2" rebar into the poured concrete for easy removal of the block.
- 2" PIPE SIZE

Controller Number
Station Number
1-45
1" | 15
Zone GPM
Valve Size

GENERAL IRRIGATION NOTES

1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
3. COORDINATE ELECTRICAL HOOKUP WITH GENERAL CONTRACTOR, ELECTRICIAN AND OWNER.
4. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION.
5. IRRIGATION HEADS AND LINES ARE SCHEMATIC – FIELD ADJUSTMENTS MAY BE REQUIRED.
6. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
7. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS.
8. MAINLINE PIPING SHALL BE INSTALLED AT MINIMUM OF 18" TO THE TOP OF PIPE. LATERAL LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18" TO THE TOP OF PIPE.
9. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
10. INSTALL WIRES A MIN. OF 8" BELOW GRADE.
    – SPLICES ARE NOT ALLOWED IN THE TRENCH.
    – PROVIDE A 24" EXPANSION LOOP AT EACH CHANGE IN DIRECTION.
    – 5 FEET OF EXCESS DECODER WIRE IS TO BE AT EACH DECODER LOCATION FOR EASE OF ACCESS.
11. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
12. UPON COMPLETION OF TEST, COMPLETE ASSEMBLY OF ALL EQUIPMENT AND SPRINKLERS FOR PROPER DISTRIBUTION.
13. PROVIDE 'AS BUILT' DRAWINGS SHOWING ALL COMPONENTS OF THE SYSTEM PRIOR TO FINAL PAYMENT. PROVIDE FINAL GPM OF ZONES, WIRE RUNS, HEADS, VALVES, PIPE SIZES ETC...
14. SLEEVE UNDER ROAD, WALLS, PAVERS, AND DRIVES
    – SLEEVE WIRE AND PIPING SEPARATELY, SEE PLAN FOR SIZING
    – ALL WIRING TO BE SLEEVED IN A MINIMUM 1" SLEEVE
    – ALL SLEEVING TO BE SDR–21 PVC CLASS 200
15. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
16. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS.
17. PRESSURE READINGS WERE PROVIDED BY OTHERS. IF THE STATIC PSI IS NOT 72psi BEFORE THE RPZ, NOTIFY OWNER'S REPRESENTATIVE.

NORTH

GRAPHIC SCALE
80 0 40 80 160
1 INCH = 80 FEET

OAK BROOK PARK DISTRICT

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

Civil Engineer
WBK Engineering, LLC
8 E Galena Blvd, Suite 402
Aurora, IL 60506
630.338.8562

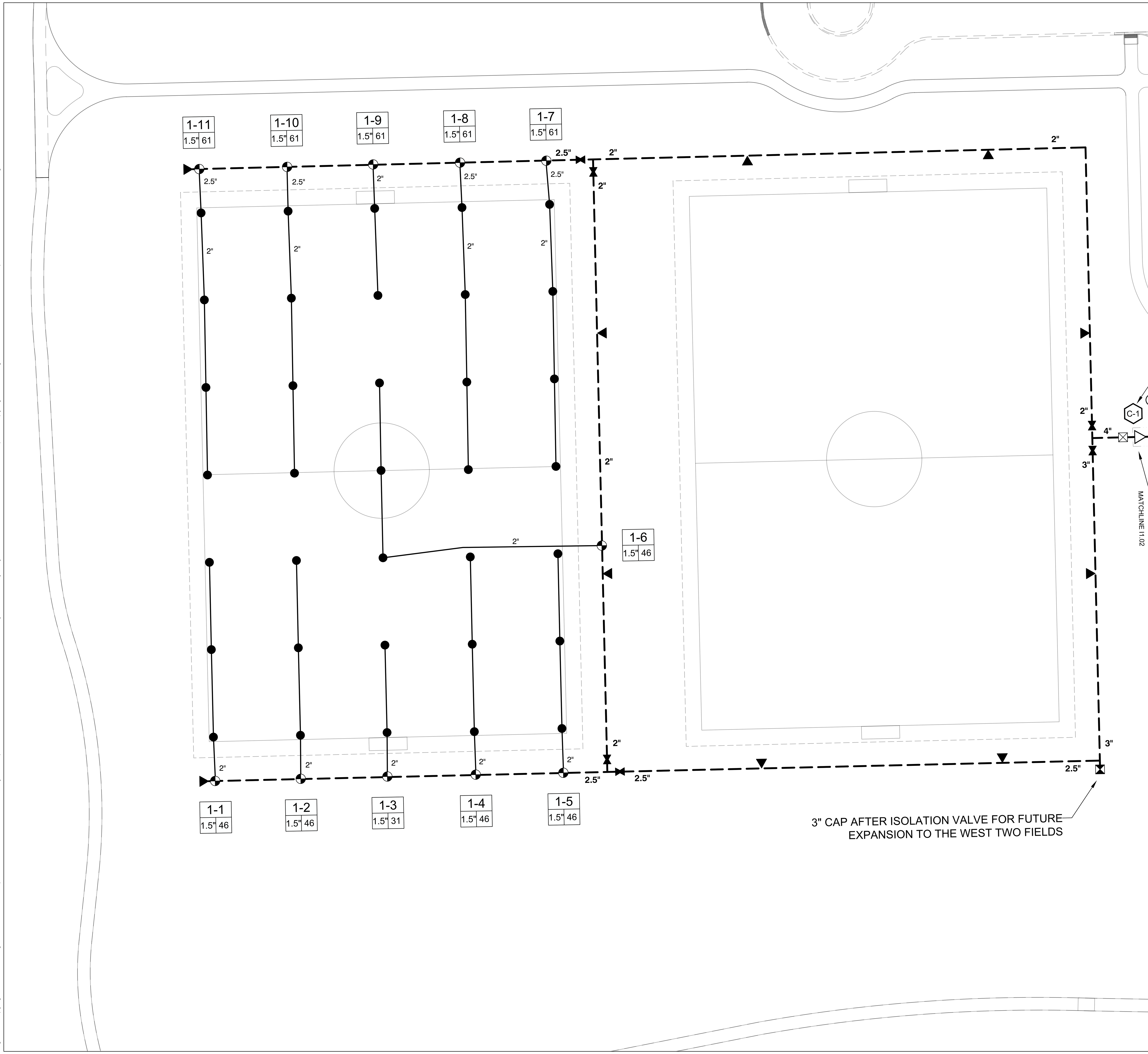
REV	DESCRIPTION	DATE
	ISSUE FOR BID	02/04/20
	ISSUE FOR PERMITS	11/08/19

CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

IRRIGATION PLAN OVERALL

Project Number:
190083
Drawn By:
mz/df
Sheet:
I1.00



LEGEND

- HUNTER I-40-06-SS-ON -- Full Circle Rotor with Opposing Nozzles
  #18 Nozzle, 15.2 GPM; 60 psi
- HUNTER PGV SERIES ELECTRIC VALVE -- Size per Plan
  All valves to utilize Hunter Accu-Sync Pressure Regulation
- HUNTER HQ44-LRC 1" QUICK COUPLER VALVE
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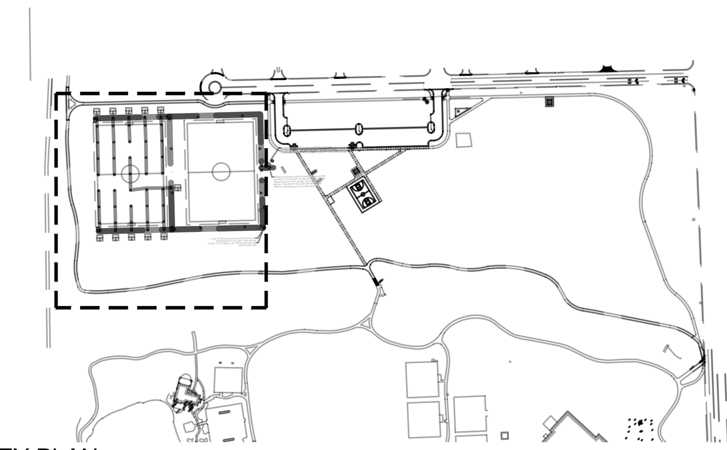
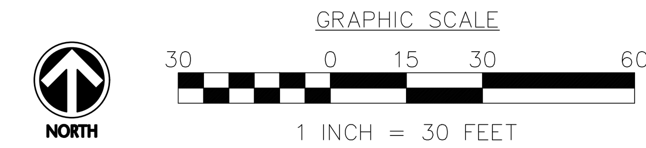
- 2" PIPE SIZE

1-45 — Controller Number, Station Number
1" | 15 — Valve Size, Zone GPM



KEY PLAN



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Wight & Company
wightco.com
2500 North Frontage Road
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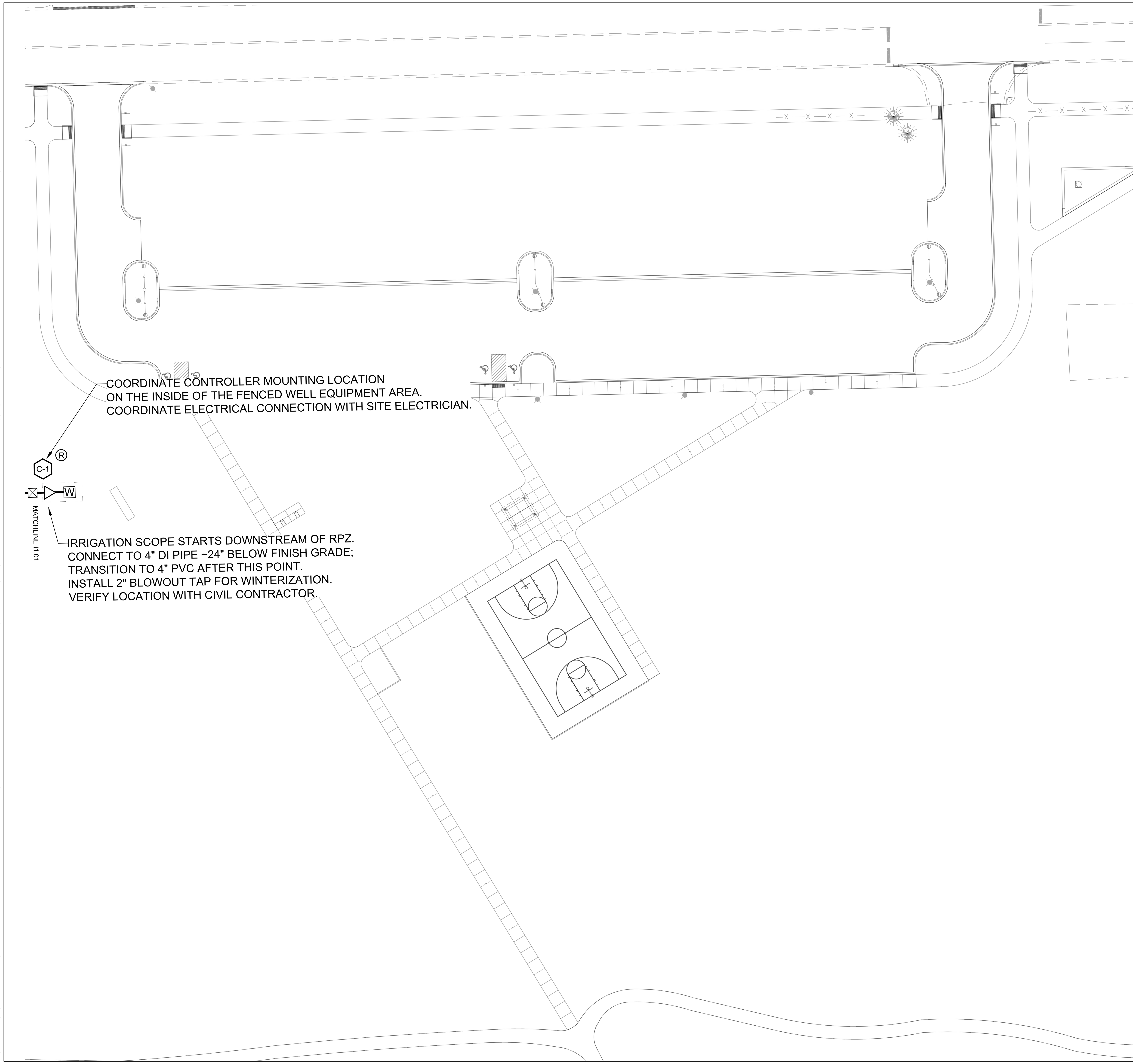
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

IRRIGATION LAYOUT WEST

Project Number:
190083
Drawn By:
mz/df
Sheet:
I1.01



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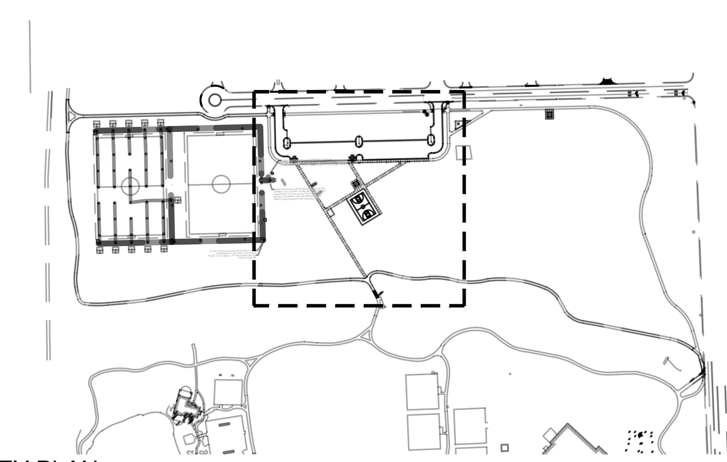
Controller Number
Station Number
1-45
1" | 15
Zone GPM
Valve Size



KEY PLAN

GRAPHIC SCALE
30 0 15 30 60
1 INCH = 30 FEET
NORTH

OAK BROOK PARK DISTRICT

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
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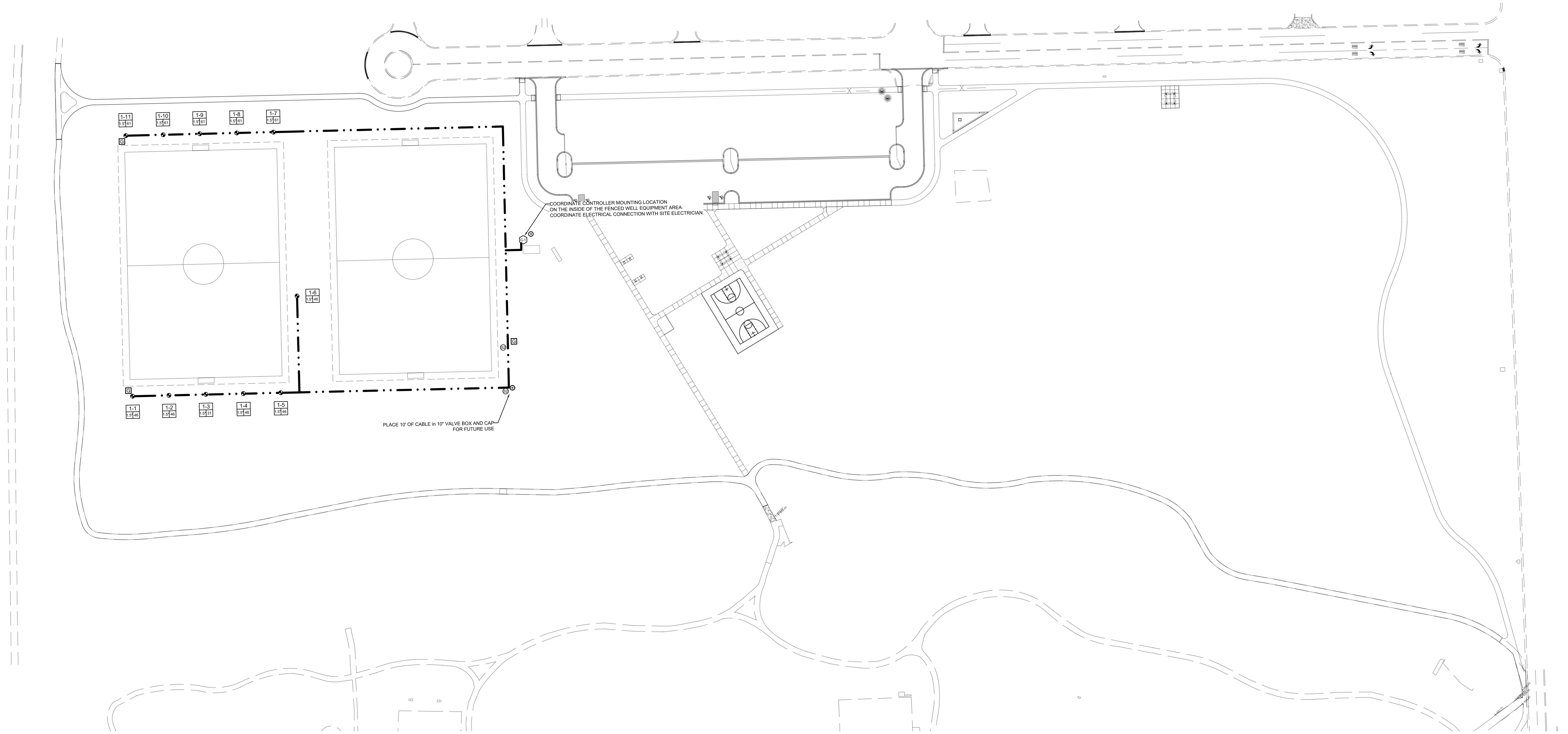
CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
Oak Brook, IL 60523

IRRIGATION LAYOUT MIDDLE

Project Number:
190083
Drawn By:
mz/df
Sheet:

I1.02



LEGEND - 2-wire

2-WIRE ROUTE -- Red Jacket

C-1 HUNTER A2C-75D-SS STAINLESS STEEL WALL MOUNT CONTROLLER

G GROUNDING ROD AND PLATE LOCATION, INSTALL PER DETAIL
Provide a Baseline BL-LA01 Surge Arrestor at each grounding location
and install per manufacture's recommendations.
Use Paige Wire #P7408D Re-Enterable Connectors only.
Wire nuts, Cadwelds, or lugs are not permitted on grounding connections.

S2 PAIGE DECODER CABLE FUSE DEVICE (DCFD) - 2 WAY

CABLE DROP -- 10' of 2-wire cable capped in 10" valve box for future use

GRAPHIC SCALE
80 0 40 80 160
1 INCH = 80 FEET

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CENTRAL PARK NORTH FIELDS PHASE 1

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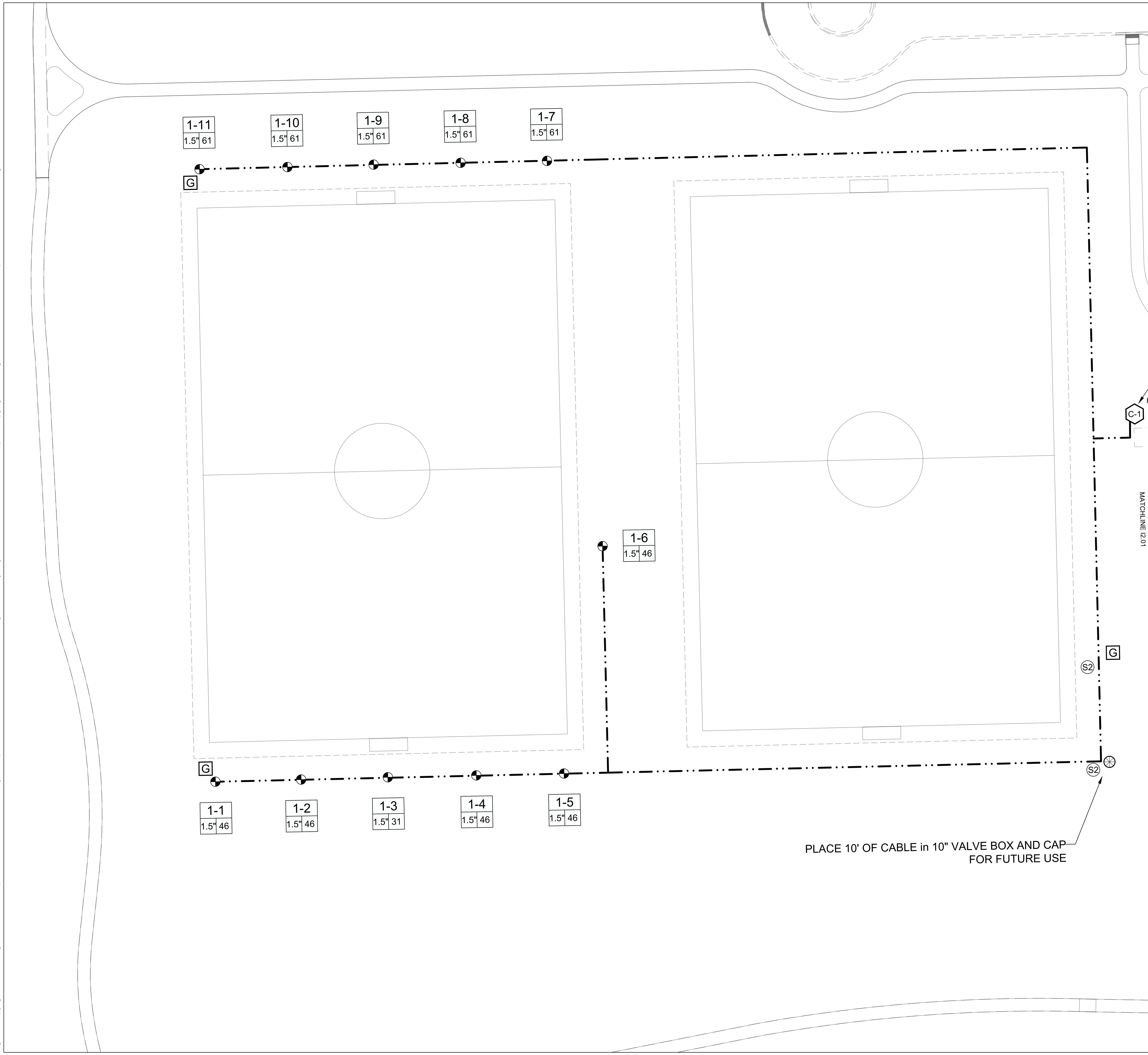
2-WIRE SCHEMATIC OVERALL

Project Number:
190083
Drawn By:
mz/df
Sheet:
I2.00



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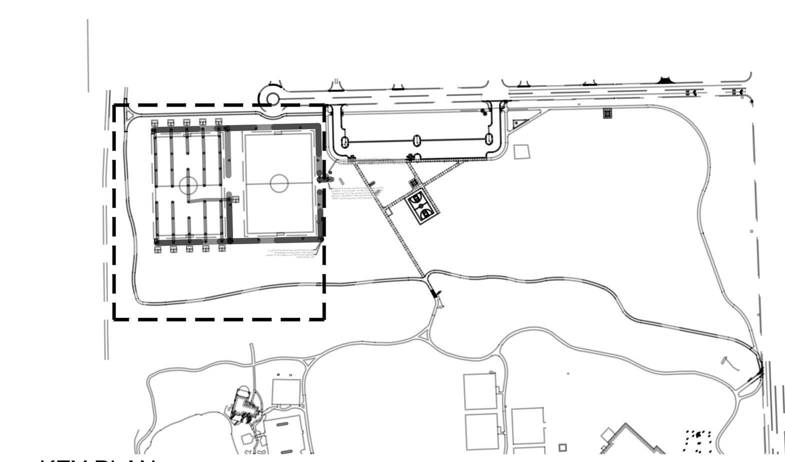

KEY PLAN

GRAPHIC SCALE
30 0 15 30 60
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NORTH

OAK BROOK PARK DISTRICT 19 62

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wightco.com
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CENTRAL PARK NORTH FIELDS PHASE 1

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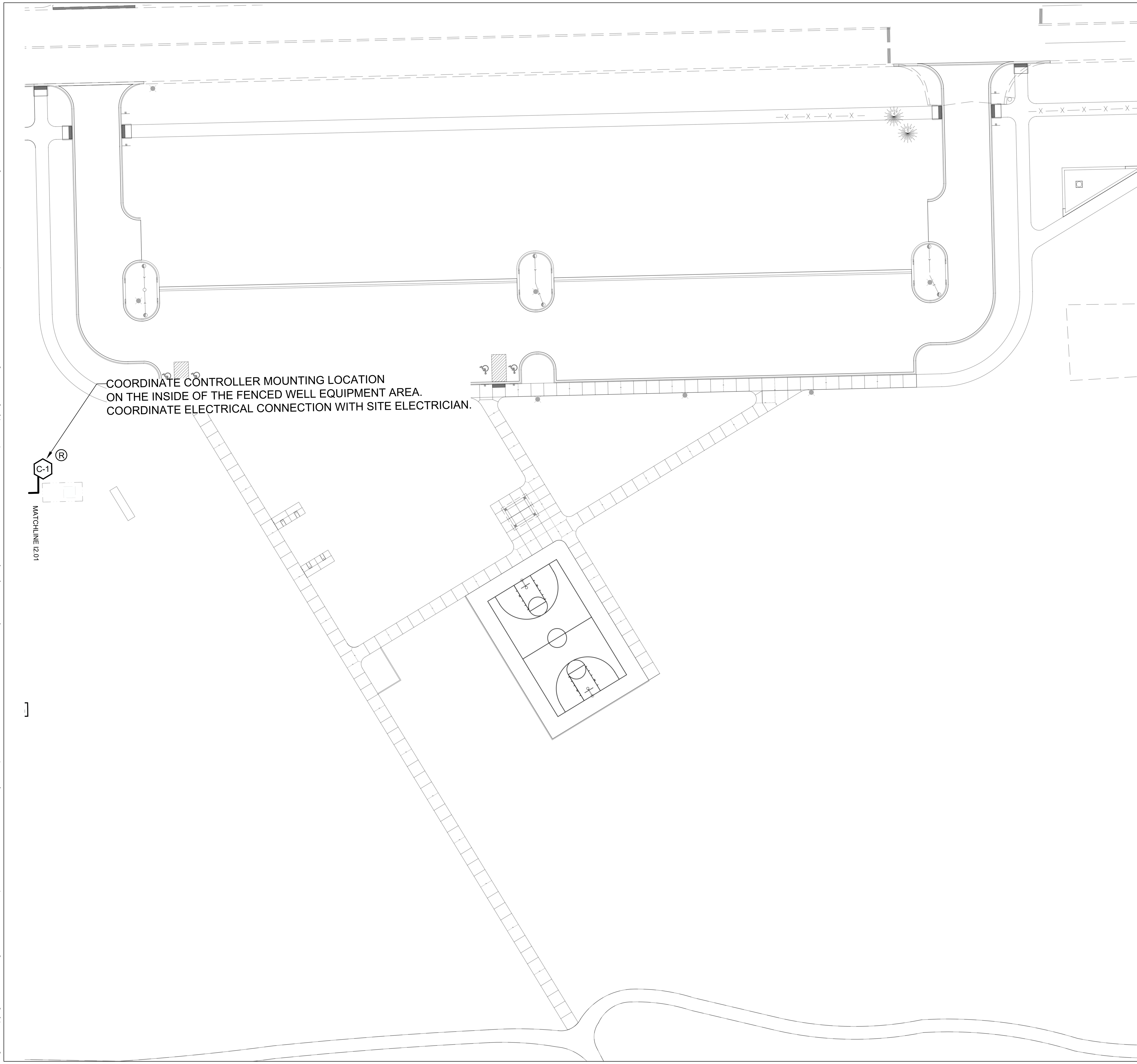
2-WIRE SCHEMATIC WEST

Project Number:
190083
Drawn By:
mz/df
Sheet:

I2.01



LEGEND - 2-wire

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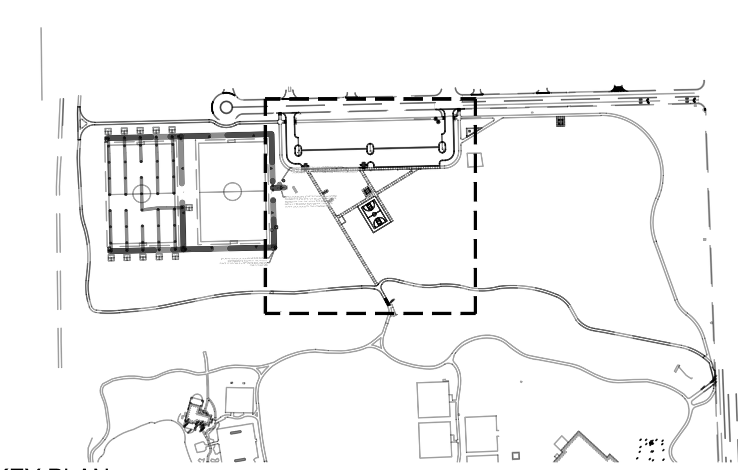

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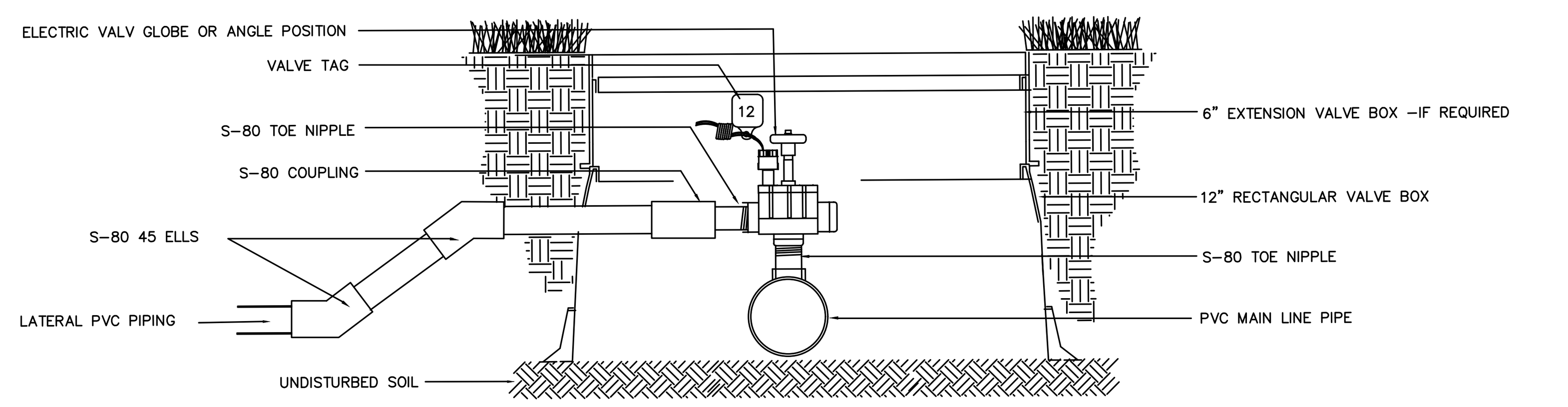
2-WIRE SCHEMATIC MIDDLE

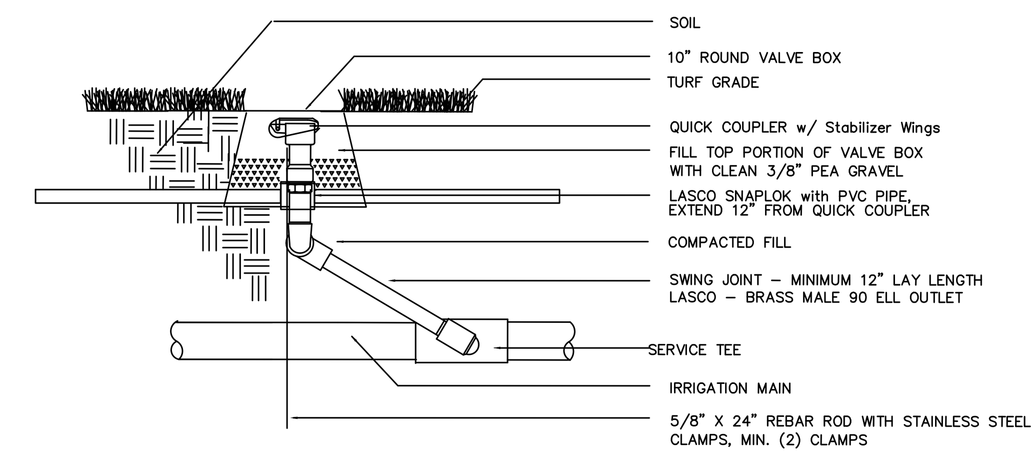
Project Number: 190083
Drawn By: mz/df
Sheet:

I2.02



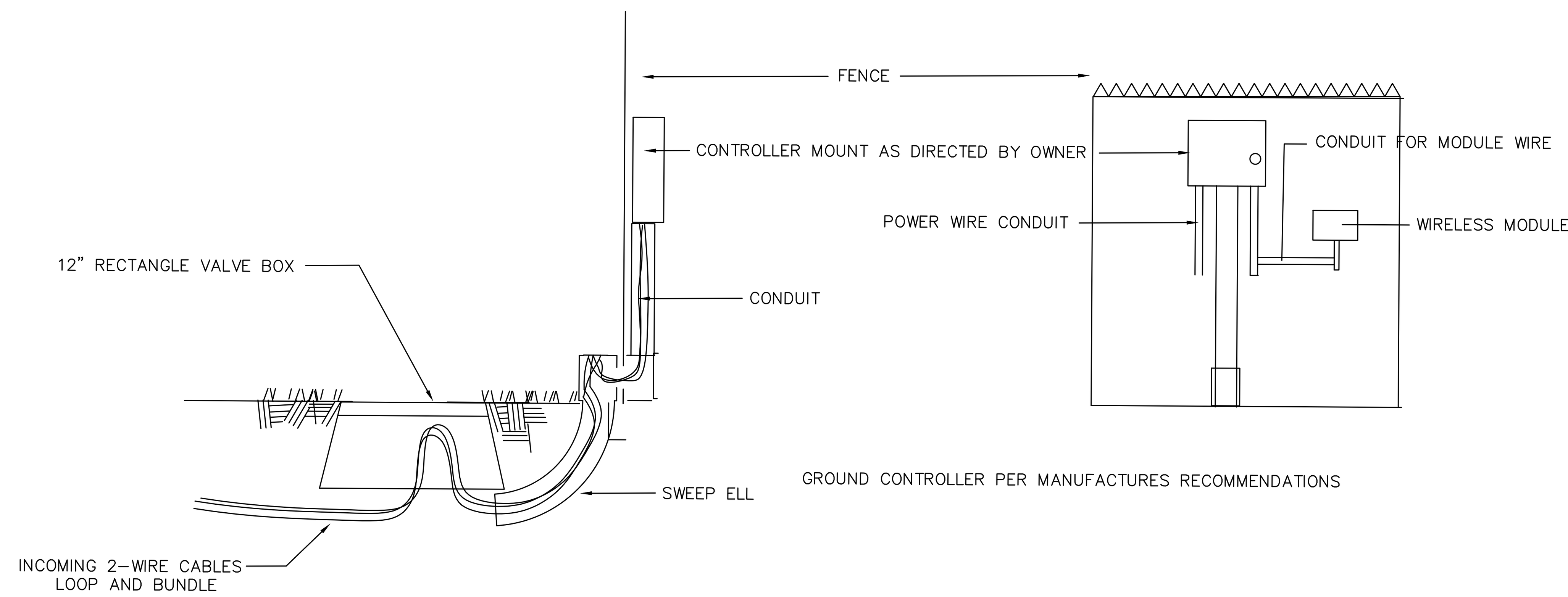
1 ELECTRIC VALVE - Large Rotor Zone

NO SCALE



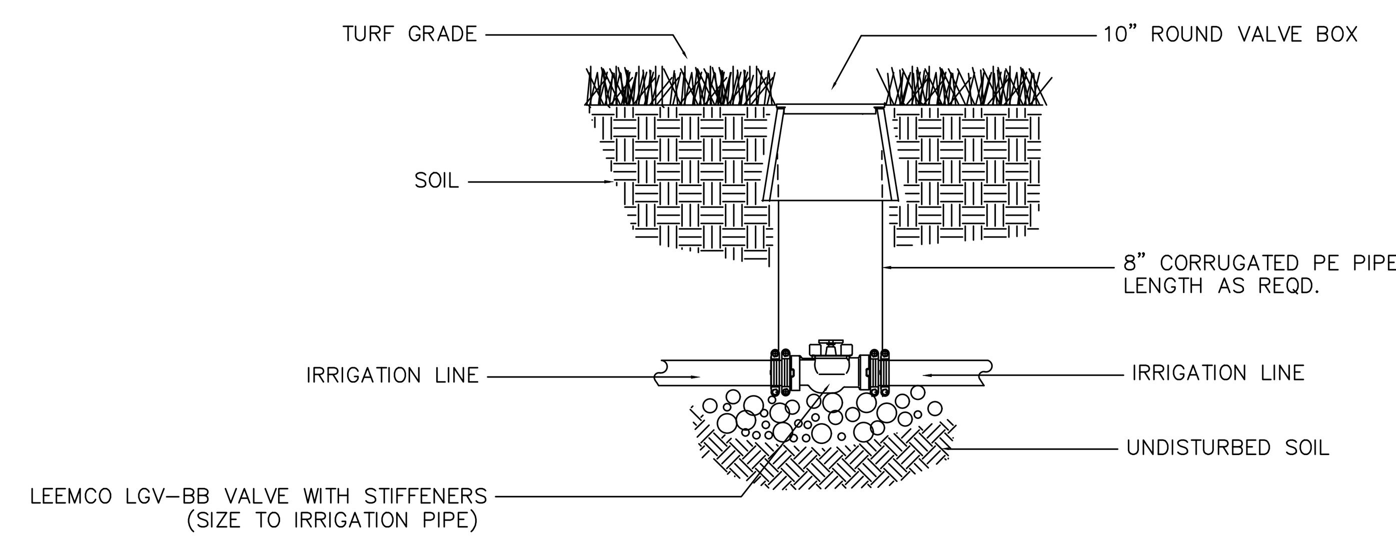
2 QUICK COUPLER VALVE

NO SCALE



3 CONTROLLER MOUNT

NO SCALE



4 2" / 2.5" / 3" ISOLATION VALVE

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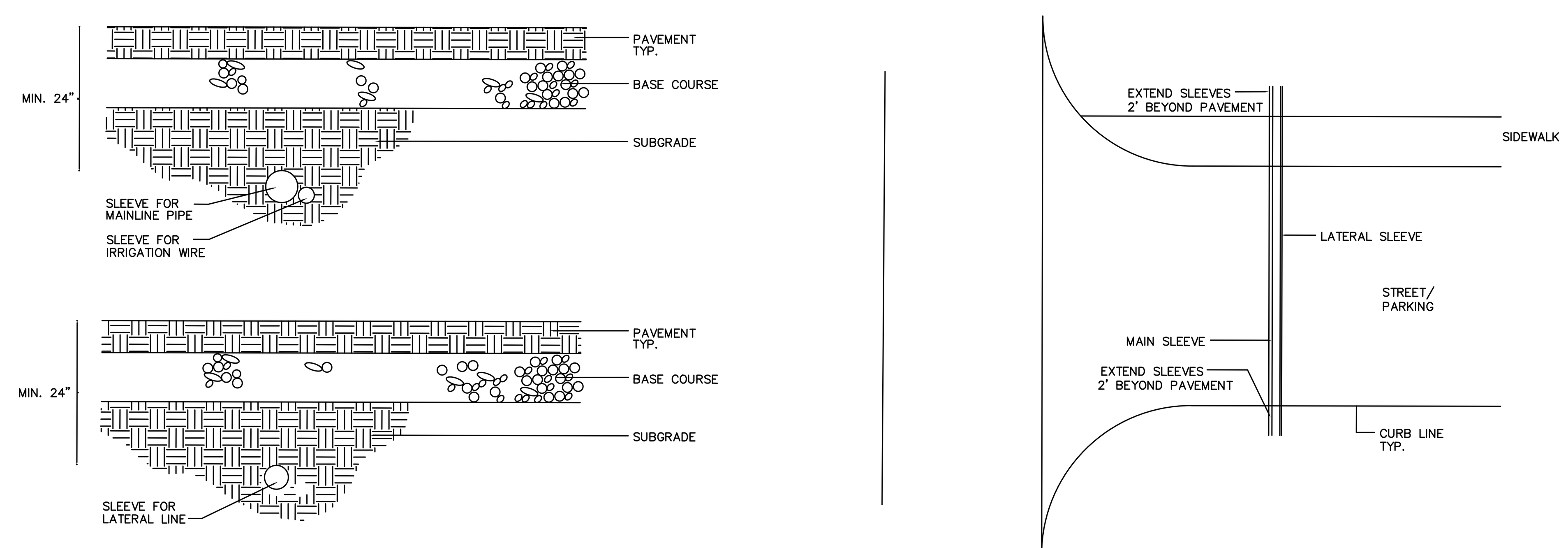
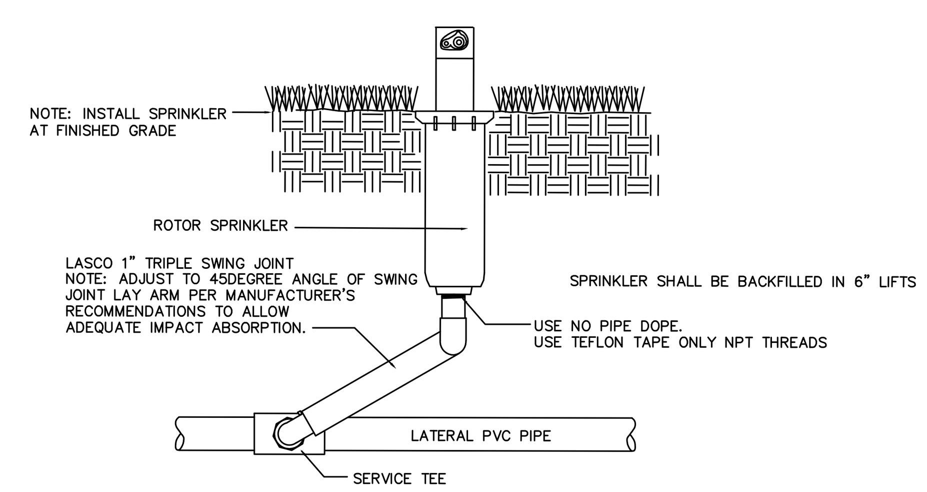


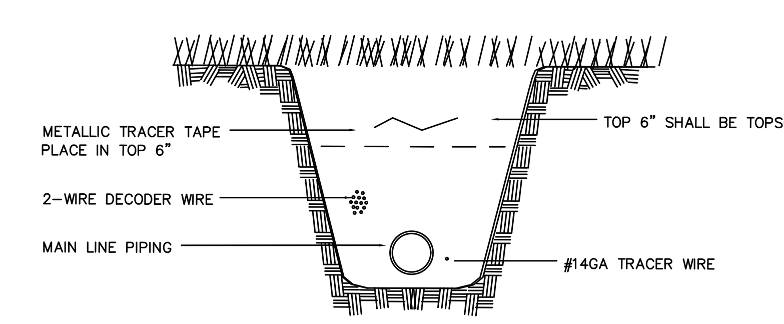
5 SLEEVING

NO SCALE



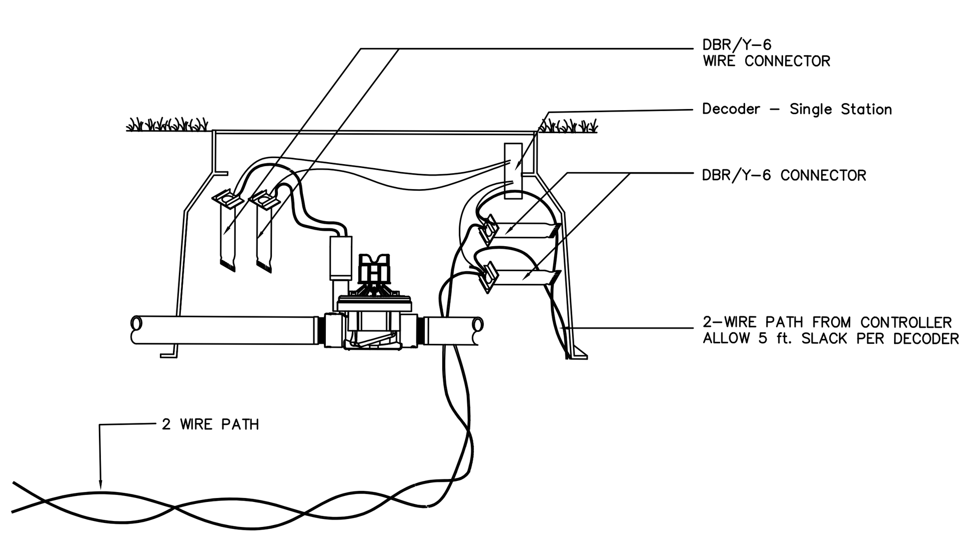
6 I-40 ROTOR HEAD

NO SCALE



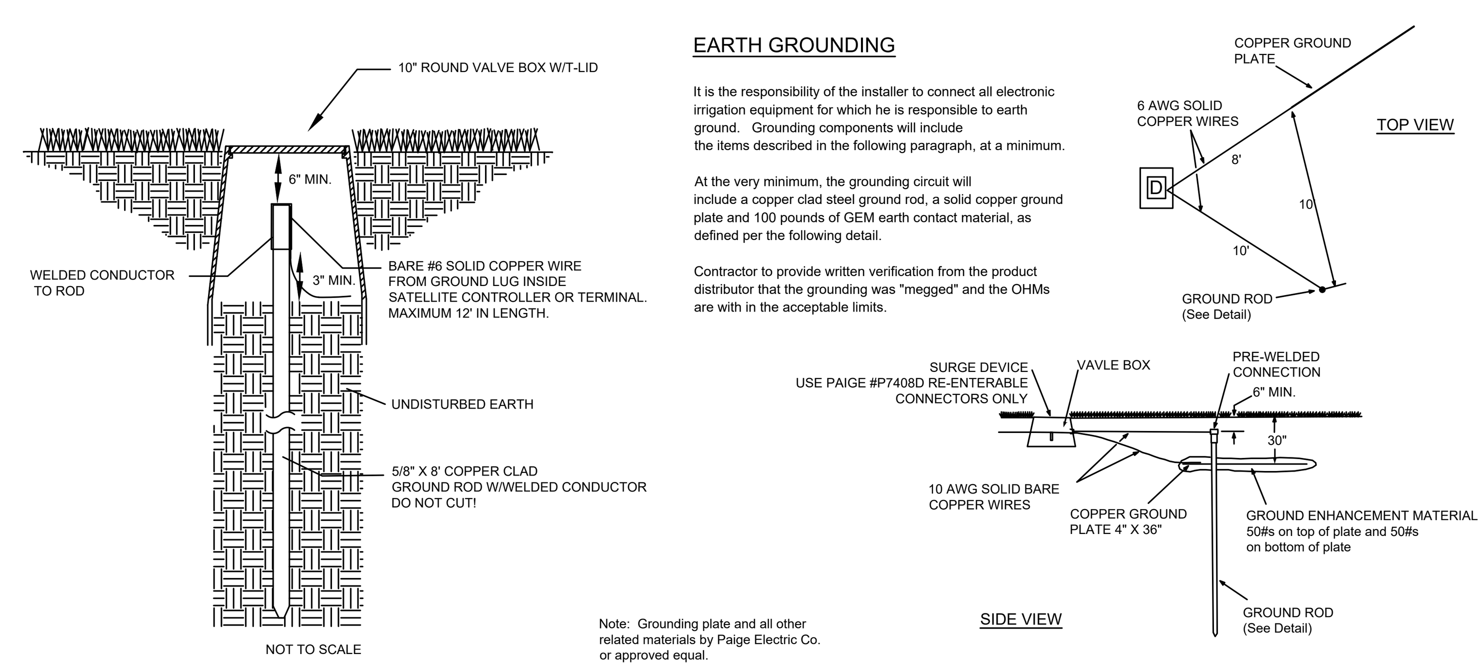
7 WIRE TRENCH

NO SCALE



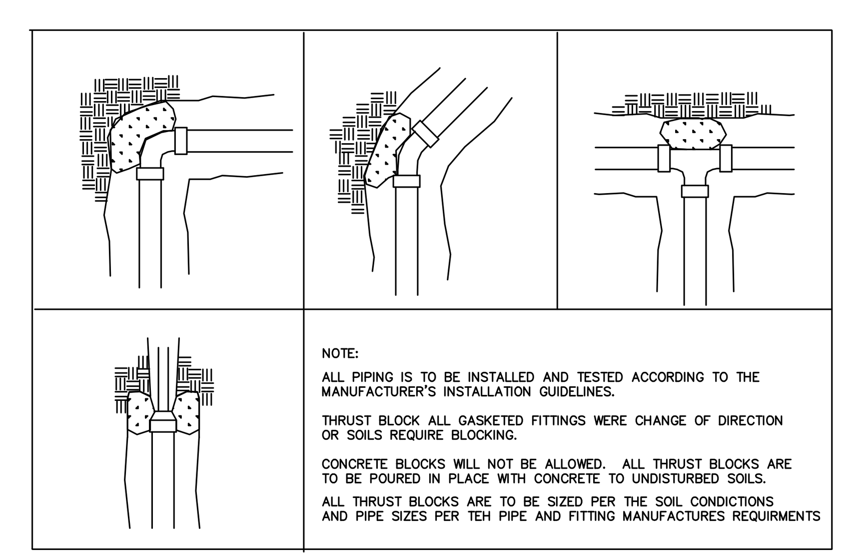
8 1 VALVE DECODER SCHEMATIC

NO SCALE



9 GROUNDING SCHEMATIC

NO SCALE



10 THRUST BLOCKS

NO SCALE

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CENTRAL PARK NORTH FIELDS PHASE 1

1315 Kensington Rd
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IRRIGATION DETAILS

Project Number:
190083
Drawn By:
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Sheet:

I3.00