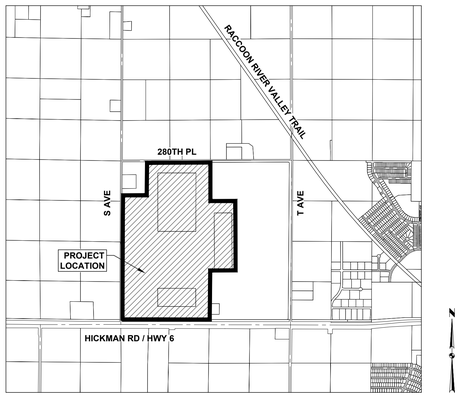
APPLE INC.
PROJECT MORGAN - SITE LOGISTICS PLAN
DESIGN DEVELOPMENT

APPLICABLE CODES		PROJECT ADDRESS	DOCUMENT PACKAGES	
BUILDING	2018 INTERNATIONAL BUILDING CODE	2995 W. HICKMAN RD WAUKEE, IA 50263	2022.02.01	1ST SUBMITTAL CITY OF WAUKEE
ACCESSIBILITY	2010 ADA		2022.02.22	2ND SUBMITTAL CITY OF WAUKEE
ELECTRICAL	2020 NATIONAL ELECTRICAL CODE		2022.04.05	3RD SUBMITTAL CITY OF WAUKEE
ENERGY	2012 IECC		2022.04.21	4TH SUBMITTAL CITY OF WAUKEE
FIRE	2018 INTERNATIONAL FIRE CODE			
MECHANICAL	2018 INTERNATIONAL MECH. CODE			
PLUMBING	2018 UNIFORM PLUMBING CODE			
REGIONAL OR MUNICIPAL	CITY OF WAUKEE ORDINANCES			

VICINITY MAP (1"=2000')

2995 W. HICKMAN RD
WAUKEE, IA 50263



WAUKEE, IOWA

BENCHMARKS

1. ALUMINUM ROD W/CAP STAMPED G-121 EAST SIDE OF R AVENUE (R16) 0.1 MILE SOUTH OF 300TH STREET. ELEVATION=1032.83
2. USGS MONUMENT STAMPED #259 HALF MILE NORTH OF HWY 6, WEST SIDE OF T AVENUE @ HOUSE #28461

LEGAL DESCRIPTION

A PART OF SECTION 30, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN, ALL OF PARCEL '17-271' AS SHOWN ON PLAT OF SURVEY RECORDED IN BOOK 2017, PAGE 24441, ALL OF PARCELS 'B' AND 'CC' AS SHOWN ON PLAT OF SURVEY RECORDED IN BOOK 2015, PAGE 11658, ALL OF PARCEL '2018-52' AS SHOWN ON PLAT OF SURVEY RECORDED IN BOOK 2018, PAGE 21204, AND ALL OF PARCEL '2018-53' AS SHOWN ON PLAT OF SURVEY RECORDED IN BOOK 2018, PAGE 21203, ALL BEING IN SAID SECTION 30 AND IN THE CITY OF WAUKEE, DALLAS COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 30; THENCE SOUTH 00°19'44" WEST ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30, A DISTANCE OF 2642.76 FEET TO THE EAST QUARTER CORNER OF SAID SECTION 30; THENCE SOUTH 00°19'21" WEST ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 30, A DISTANCE OF 2559.41 FEET TO THE NORTH LINE OF THE FORMER RAILROAD RIGHT OF WAY; THENCE SOUTH 89°55'20" WEST ALONG SAID NORTH LINE, 2640.56 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER; THENCE SOUTH 89°34'55" WEST CONTINUING ALONG SAID NORTH LINE, 1319.80 FEET TO THE WEST LINE OF THE SOUTHEAST QUARTER OF THE SOUTHWEST FRACTIONAL QUARTER OF SAID SECTION 30; THENCE SOUTH 89°34'41" WEST CONTINUING ALONG SAID NORTH LINE, 1572.46 FEET TO THE WEST LINE OF SAID SOUTHWEST FRACTIONAL QUARTER; THENCE NORTH 00°02'31" EAST ALONG SAID WEST LINE, 2544.70 FEET TO THE WEST QUARTER CORNER OF SAID SECTION 30; THENCE NORTH 00°21'50" EAST ALONG THE WEST LINE OF THE NORTHWEST FRACTIONAL QUARTER OF SAID SECTION 30, A DISTANCE OF 1518.05 FEET TO THE SOUTHWEST CORNER OF PARCEL '17-270' AS SHOWN ON THE PLAT OF SURVEY RECORDED IN BOOK 2017, PAGE 24441; THENCE NORTH 89°34'38" EAST ALONG THE SOUTH LINE OF SAID PARCEL '17-270', A DISTANCE OF 831.16 FEET TO THE SOUTHEAST CORNER OF SAID PARCEL '17-270'; THENCE NORTH 00°21'56" EAST ALONG THE EAST LINE OF SAID PARCEL '17-270', A DISTANCE OF 1124.82 FEET TO THE NORTH LINE OF SAID NORTHWEST FRACTIONAL QUARTER OF SAID SECTION 30; THENCE NORTH 89°34'43" EAST ALONG SAID NORTH LINE, 742.77 FEET TO THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID NORTHWEST FRACTIONAL QUARTER; THENCE NORTH 89°34'37" EAST CONTINUING ALONG SAID NORTH LINE, 1318.75 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE NORTH 89°36'38" EAST ALONG THE NORTH LINE OF SAID NORTHEAST QUARTER, 1325.51 FEET TO THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID NORTHEAST QUARTER; THENCE NORTH 89°36'36" EAST CONTINUING ALONG SAID NORTH LINE, 1325.59 FEET TO THE POINT OF BEGINNING AND CONTAINING 638.94 ACRES (27,832,099 SQUARE FEET). THE PROPERTY IS SUBJECT TO ROADWAY EASEMENTS AND OTHER EASEMENTS OF RECORD.

SHEET INDEX

Sheet Number	Sheet Title
C-0000	LOGISTICS PLAN COVER
C-1100	LOGISTICS DIMENSION PLAN OVERALL
C-1109	LOGISTICS DIMENSION PLAN
C-1110	LOGISTICS DIMENSION PLAN
C-1111	LOGISTICS DIMENSION PLAN
C-1115	LOGISTICS DIMENSION PLAN
C-1116	LOGISTICS DIMENSION PLAN
C-1117	LOGISTICS DIMENSION PLAN
C-1121	LOGISTICS DIMENSION PLAN
C-1122	LOGISTICS DIMENSION PLAN
C-1123	LOGISTICS DIMENSION PLAN
C-1127	LOGISTICS DIMENSION PLAN
C-1128	LOGISTICS DIMENSION PLAN
C-1129	LOGISTICS DIMENSION PLAN
C-1131	LOGISTICS DIMENSION PLAN
C-1132	LOGISTICS DIMENSION PLAN
C-1133	LOGISTICS DIMENSION PLAN
C-1137	LOGISTICS DIMENSION PLAN
C-1138	LOGISTICS DIMENSION PLAN
C-1139	LOGISTICS DIMENSION PLAN
C-1200	LOGISTICS GRADING & EROSION CONTROL PLAN OVERALL
C-1215	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1216	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1217	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1221	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1222	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1223	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1227	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1228	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1229	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1231	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1232	LOGISTICS GRADING & EROSION CONTROL PLAN
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C-1237	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1238	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1239	LOGISTICS GRADING & EROSION CONTROL PLAN
C-1300	LOGISTICS STORM PLAN OVERALL
C-1321	LOGISTICS STORM PLAN
C-1323	LOGISTICS STORM PLAN
C-1327	LOGISTICS STORM PLAN
C-1328	LOGISTICS STORM PLAN
C-1329	LOGISTICS STORM PLAN
C-1331	LOGISTICS STORM PLAN
C-1332	LOGISTICS STORM PLAN
C-1333	LOGISTICS STORM PLAN
C-1337	LOGISTICS STORM PLAN
C-1338	LOGISTICS STORM PLAN
C-1339	LOGISTICS STORM PLAN
C-1600	LOGISTICS WATER PLAN OVERALL
C-1626	LOGISTICS WATER PLAN
C-1632	LOGISTICS WATER PLAN
C-1633	LOGISTICS WATER PLAN
C-1800	LOGISTICS SANITARY PLAN OVERALL
C-1826	LOGISTICS SANITARY PLAN
C-1832	LOGISTICS SANITARY PLAN
C-5101	LOGISTICS DETAILS
C-5102	LOGISTICS DETAILS
L-1100	LOGISTICS LANDSCAPE PLAN OVERALL
L-1131	LOGISTICS LANDSCAPE PLAN
L-1132	LOGISTICS LANDSCAPE PLAN
L-1133	LOGISTICS LANDSCAPE PLAN
L-1137	LOGISTICS LANDSCAPE PLAN
L-1138	LOGISTICS LANDSCAPE PLAN

BULK REGULATIONS

FRONT YARD BUILDING SETBACK (MIN):	50'
REAR YARD BUILDING SETBACK (MIN):	50'
SIDE YARD BUILDING SETBACK (MIN):	25'
SETBACK BETWEEN BUILDINGS (MIN):	25'
MAXIMUM BUILDING HEIGHT:	80'

OPEN SPACE CALCULATIONS

LOT 1:

TOTAL LAND AREA:	218.93 ACRES	(9,536,718 SF) (100.00%)
OPEN SPACE AREA REQUIRED:	43.79 ACRES	(1,907,344 SF) (20.00%)
WKE.SITE PLAN IMPERVIOUS AREA:	43.71 ACRES	(1,903,853 SF) (19.96%)
LOGISTICS PLAN IMPERVIOUS AREA:	4.33 ACRES	(188,828 SF) (1.98%)
TOTAL OPEN SPACE AREA PROVIDED:	170.89 ACRES	(7,444,037 SF) (78.06%)

GOVERNING AGENCIES

REVIEW AGENCY:

CITY OF WAUKEE
230 HICKMAN ROAD
WAUKEE, IA 50263
PH: (515) 978-7897
CONTACT: ANDY KASS

FIRE DISTRICT:

CITY OF WAUKEE FIRE DEPARTMENT
1300 SE L.A. GRANT PARKWAY
WAUKEE, IA 50263
PH: (515) 978-7982
CONTACT: FIRE MARSHAL - JUSTIN FREDERICK

UTILITIES

GAS, STORM SEWER, SANITARY SEWER, AND WATER:

CITY OF WAUKEE PUBLIC WORKS
805 UNIVERSITY AVENUE
WAUKEE, IA 50263
PH: (515) 978-7920
CONTACT: ASSISTANT PUBLIC WORKS DIRECTOR OF OPERATIONS - TIM ROYER

NOTES

1. SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS AND 2022 SUDAS STANDARD SPECIFICATIONS.
2. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THIS PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITE WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS/HER OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
3. CAUTION - NOTICE TO CONTRACTOR
   THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. ALL CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS, AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS SHALL COMPLY WITH THE CITY OF WAUKEE 2020 STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND 2022 SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN. ONSITE PRIVATE WORK SHALL COMPLY WITH 2022 SUDAS STANDARD SPECIFICATIONS AND PROJECT MORGAN SPECIFICATIONS.
5. AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE CITY OF WAUKEE TO SCHEDULE ANY REQUIRED INSPECTIONS. IT IS IMPORTANT TO NOTE CITY APPROVAL OF THIS PLAN IS SUBJECT TO THE APPLICANT OBTAINING ALL NECESSARY EASEMENTS/AGREEMENTS AND APPLICABLE PERMITS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

RYAN HARDISTY — DATE

PAGES OR SHEETS COVERED BY THIS SEAL:
THIS SHEET

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TEAM

OWNER	ARCHITECT	CIVIL LANDSCAPE	STRUCTURAL	MEP/FA/FP TELECOM/CNTRLS	ELECTRICAL
Apple Inc.	Corgan 401 N. Houston St Dallas, TX 75202 T: 214-748-2000 F: 214-653-8281 CONTACT: Gabe Clark email: gabe.clark@corgan.com www.corgan.com	Civil Design Advantage 4121 NW Urbandale Drive Urbandale, IA 50322 T: 515-369-4400 F: 515-369-4410 CONTACT: Ryan Hardisty email: ryanh@cda-eng.com	Ponce-Fuess Engineering 3333 Lee Parkway, Suite 475 Dallas, TX 75219 T: 469-310-2852 CONTACT: Geoff Bliss email: gbliss@ponce-fuess.com	kW Mission Critical 233 N. Water Street, 6th Floor Milwaukee, WI 50202 T: 414-333-6427 CONTACT: Nia Gleason email: ngleason@kwmce.com	

CORGAN
401 N. Houston Street
Dallas, TX 75202
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PROJECT MORGAN
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Ponce-Fuess Engineering
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Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
233 N Water Street, 6th Floor
Milwaukee, WI 53202
414-333-6427

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3	2022.04.05	CITY OF WAUKEE SUBMITTAL #3
4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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RYAN HARDISTY

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Date of issue:
04.05.2022

KEYPLAN

PLAN N

61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
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LOGISTICS PLAN COVER

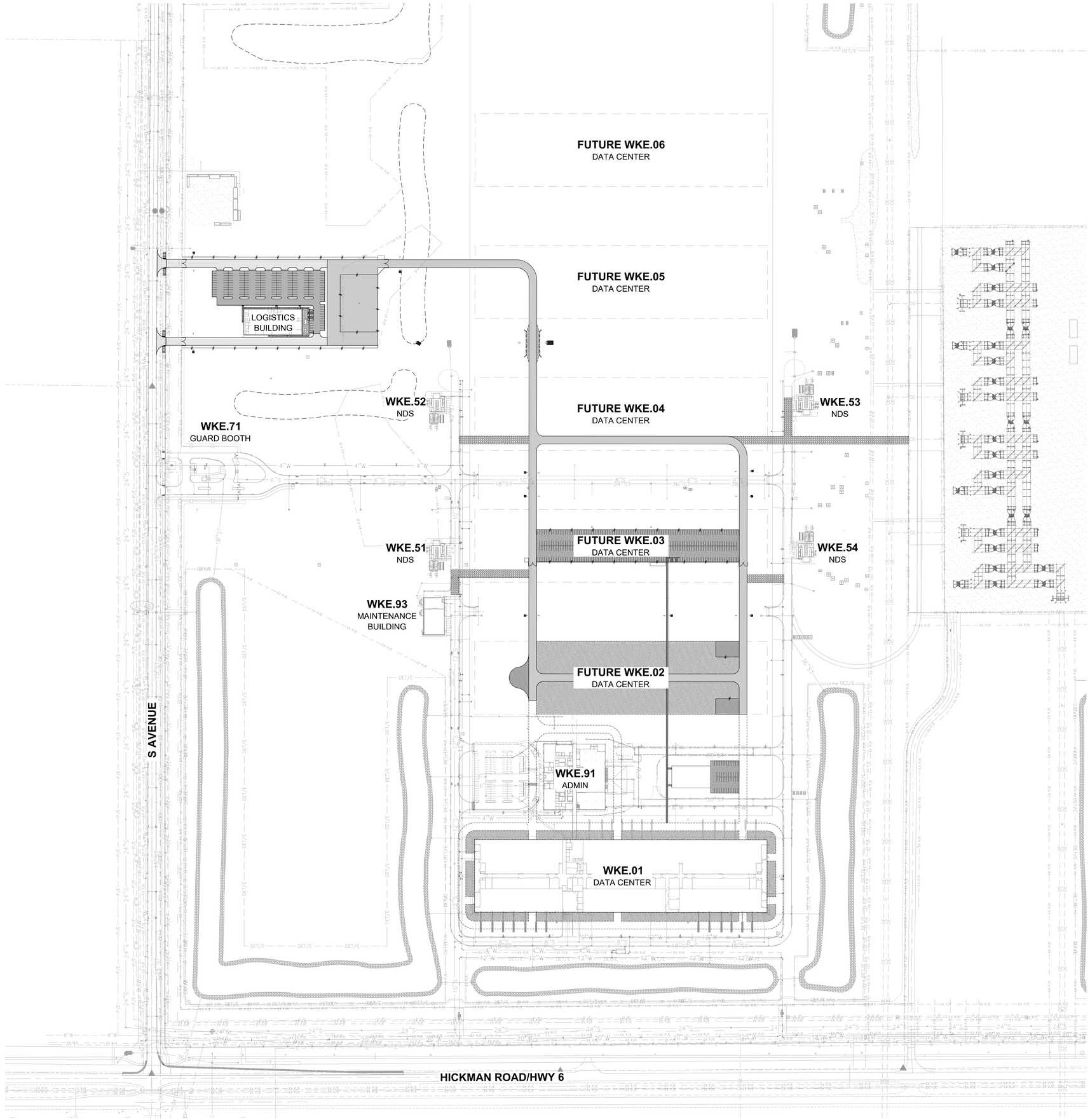
JOB 21245.0000
DATE 4/21/2022
SHEET

C-0000

4/21/2022 4:48 PM C-0000 LOGISTICS PLAN COVER

THESE DRAWINGS CONTAIN TRADEMARK SECRETS AND PROPRIETARY INFORMATION. THEY ARE NOT TO BE RELEASED FOR PUBLIC REVIEW.

APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRANULAR SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.
3. PRIOR TO ANY WORK AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER, ENGINEER, AND/OR ARCHITECT, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
4. ONE WEEK PRIOR TO CONSTRUCTION WITHIN CITY R.O.W. OR ANY CONNECTION TO PUBLIC SEWERS OR WATER MAIN THE CONTRACTOR SHALL NOTIFY THE CITY'S PUBLIC WORKS DEPARTMENT.
5. ALL CONSTRUCTION WITHIN PUBLIC R.O.W./ EASEMENTS, AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE CITY'S STANDARDS.
6. ALL DIMENSIONS ARE TO BACK OF CURB, BUILDING FACE OR PROPERTY LINE UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS.
8. PLACE 3/4 INCH EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/SIDEWALKS AND BUILDING. PLACE 1/2 INCH EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C. PAVEMENT. REFER TO THE PROJECT SPECIFICATIONS FOR JOINT SEALANT REQUIREMENTS.
9. REMOVE ALL DEBRIS SPILLED INTO R.O.W. AT THE END OF EACH WORK DAY AND PRIOR TO A RAIN EVENT.
10. ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
11. DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE RIGHT OF WAY.
12. THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE OWNER.
13. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING EQUIPMENT ON THE PAVEMENT OR SIDEWALK.
14. THE CONTRACTOR MAY BE REQUIRED TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY, AS DIRECTED BY THE ENGINEER OR THE CITY.
15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN SUPPLIERS AND SUBCONTRACTORS INVOLVED IN THE PROJECT, INCLUDING STAGING OF CONSTRUCTION DETAILS.
16. ALL PERMITS AND ADDITIONAL FEES REQUIRED TO COMPLETE THE WORK SHALL BE INCLUDED IN THE CONTRACTOR BID.
17. MINIMUM FROST PROTECTION SHALL BE AT A DEPTH OF 42 INCHES BELOW FINISH GRADE.

SCALE
0' 75' 150' 300'

CORGAN

401 N. Houston Street
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REVISIONS

This document was produced by or under the authority of Licensed Professional Engineer:

RYAN HARDISTY

PROFESSIONAL ENGINEER RYAN J. HARDISTY 20811 IOWA
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LOGISTICS DIMENSION PLAN OVERALL

JOB 21245.0000
DATE 4/21/2022
SHEET

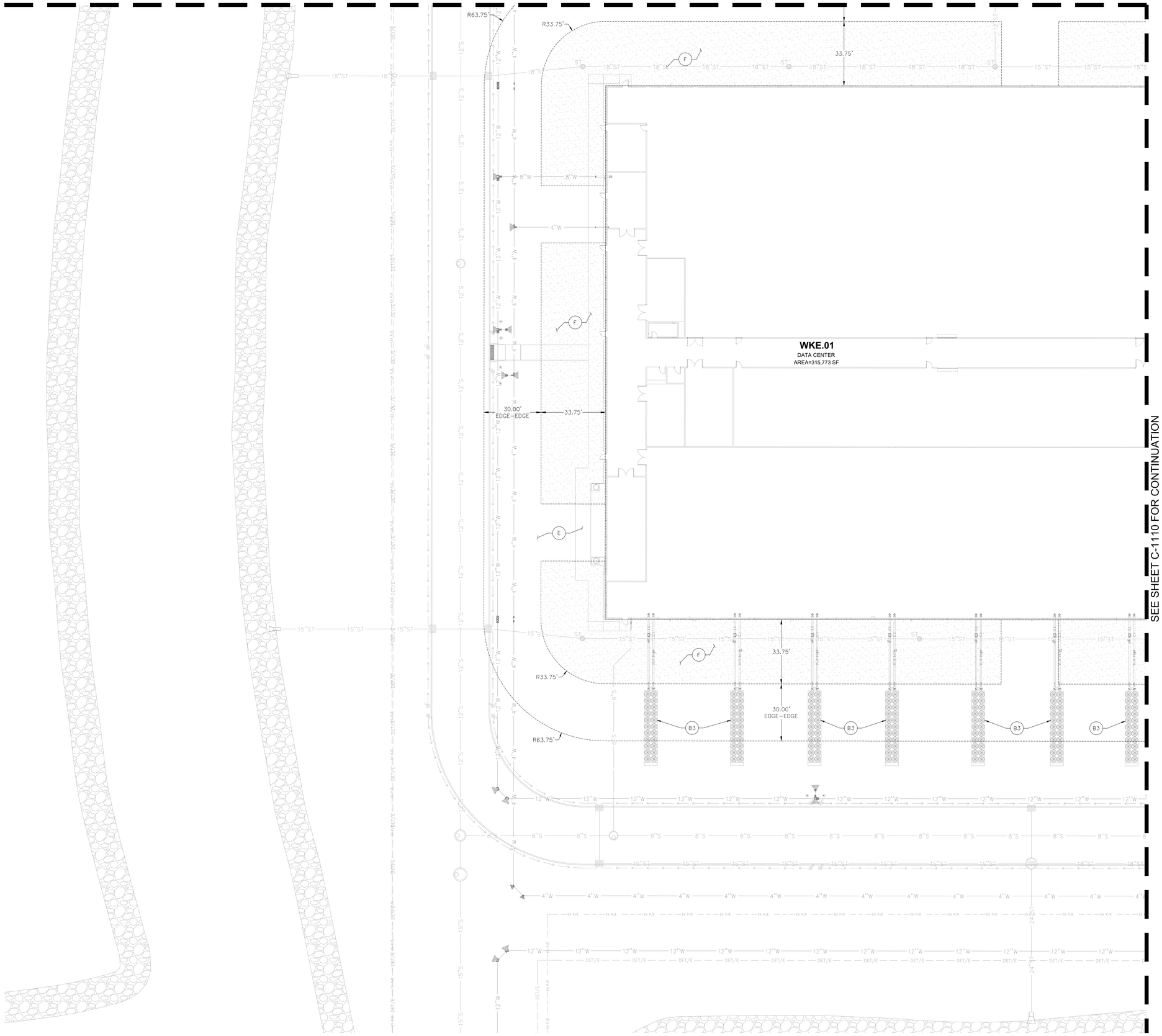
C-1100

APPLE PROJECT NO. F.21D42

4/21/2022 4:50 PM C-1100 LOGISTICS DIMENSION PLAN OVERALL

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SEE SHEET C-1115 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
- (B4) FUTURE MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)

STRIPING AND SIGNAGE KEY

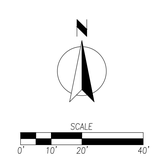
(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE



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LOGISTICS DIMENSION PLAN

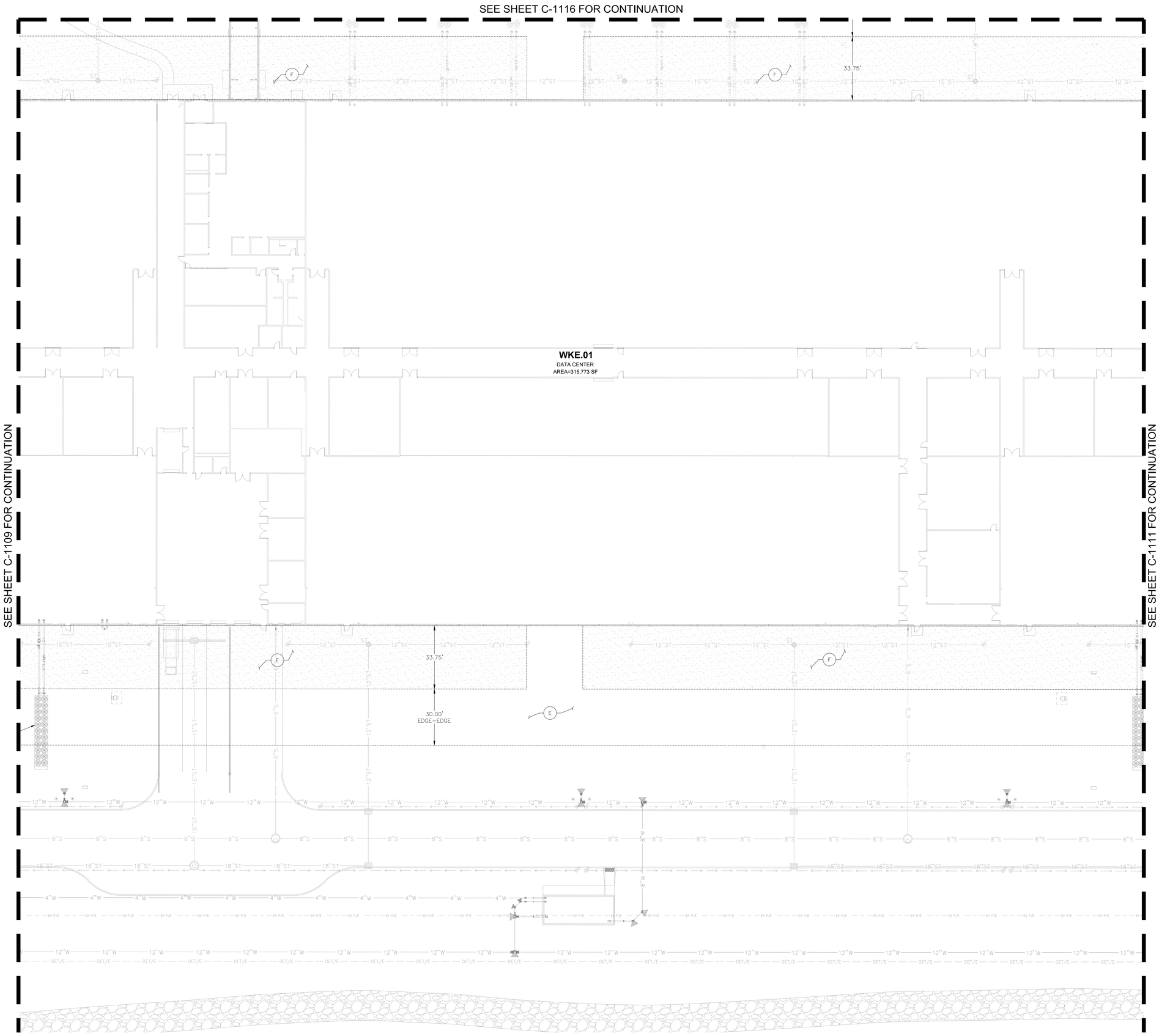
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DATE 4/21/2022
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C-1109

4/21/2022 4:51 PM C-1109 LOGISTICS DIMENSION PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
- (B4) FUTURE MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)

STRIPING AND SIGNAGE KEY

(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

CORGAN

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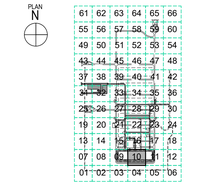
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KEYPLAN



LOGISTICS DIMENSION PLAN

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C-1110

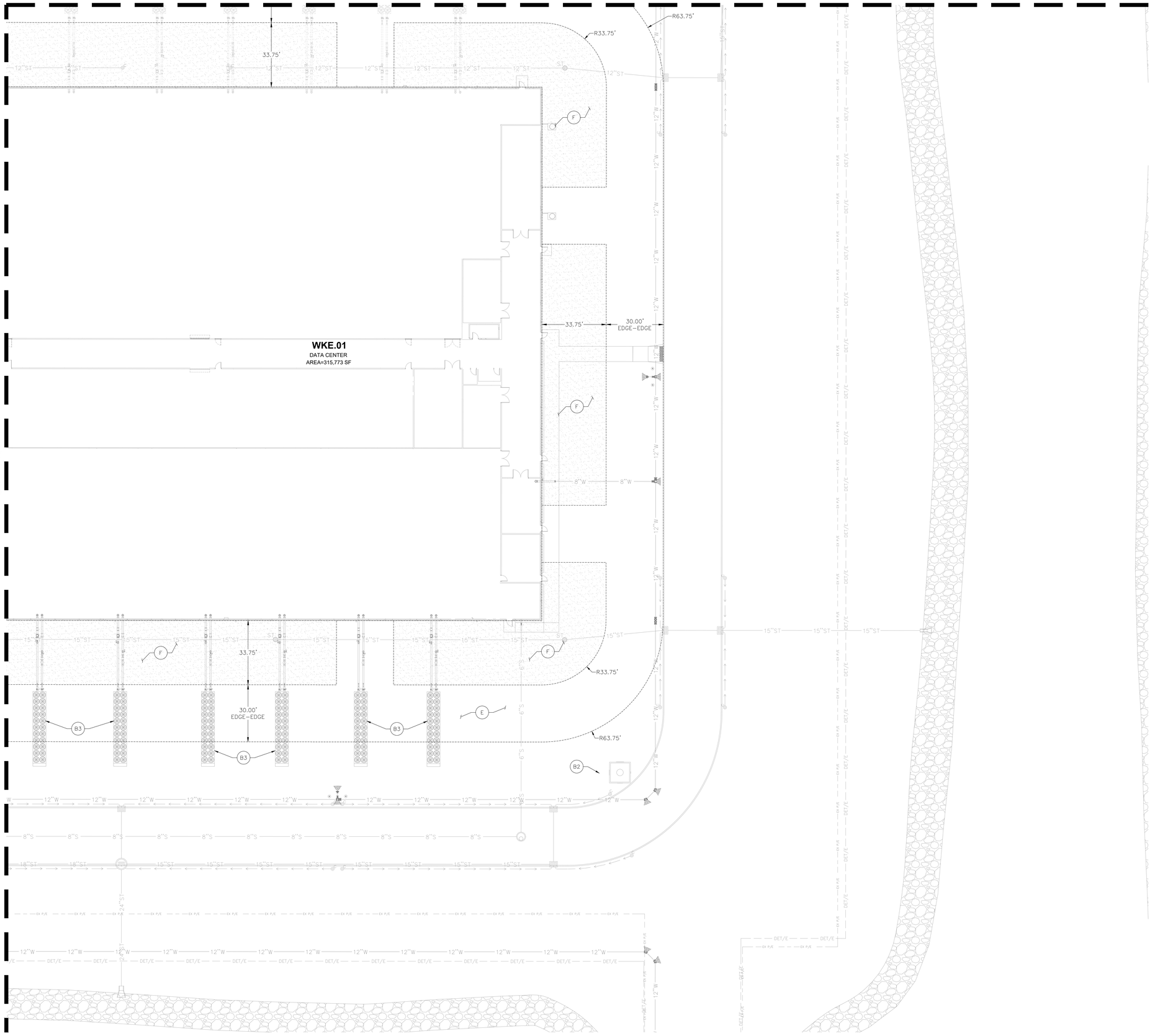
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APPLE PROJECT NO. F.21D42

SEE SHEET C-1117 FOR CONTINUATION

SEE SHEET C-1110 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
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STRIPING AND SIGNAGE KEY

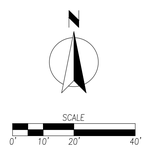
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- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE



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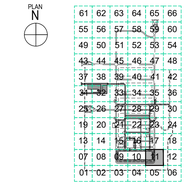
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KEYPLAN



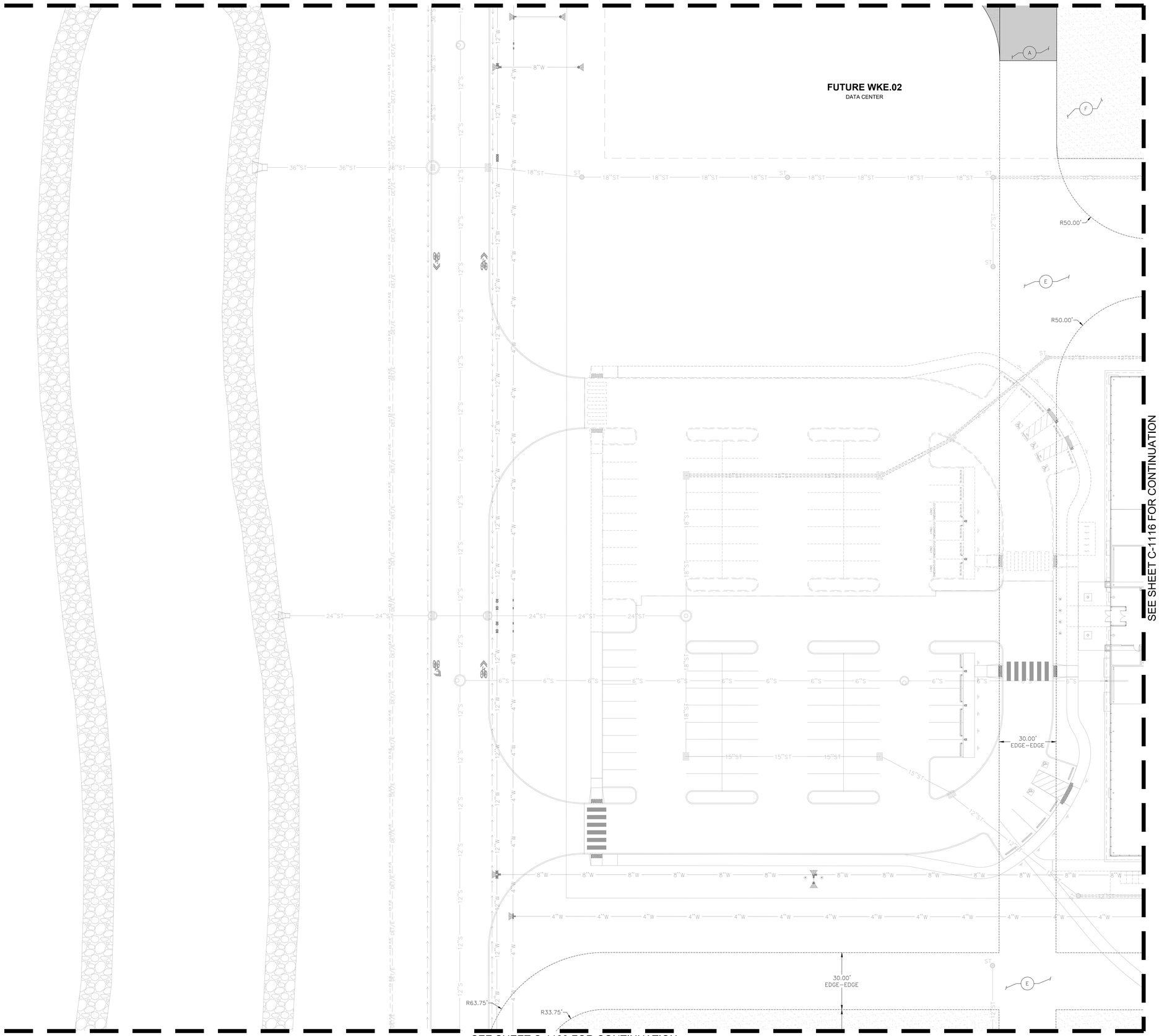
LOGISTICS DIMENSION PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

C-1111

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SEE SHEET C-1121 FOR CONTINUATION



SEE SHEET C-1109 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
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- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
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- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
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- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
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- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

N

SCALE
0' 10' 20' 40'

CORGAN

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KEYPLAN

PLAN N

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LOGISTICS DIMENSION PLAN

JOB 21245.0000
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C-1115

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1122 FOR CONTINUATION

SEE SHEET C-1115 FOR CONTINUATION

SEE SHEET C-1117 FOR CONTINUATION

SEE SHEET C-1110 FOR CONTINUATION

FUTURE WKE.02
DATA CENTER

WKE.91
ADMIN BUILDING

LUNCH TENT
AREA=12,750 SF

30.00'
EDGE-EDGE

R60.00'

R30.00'

6.00'

150.00'

85.00'

30.00'
EDGE-EDGE

30.00'
EDGE-EDGE

SCALE
0' 10' 20' 40'

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
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- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
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STRIPING AND SIGNAGE KEY

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FENCING AND GATE KEY

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- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
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- (F3) MANUAL SWING GATE

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LICENSED PROFESSIONAL ENGINEER
20811
IOWA

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LOGISTICS DIMENSION PLAN

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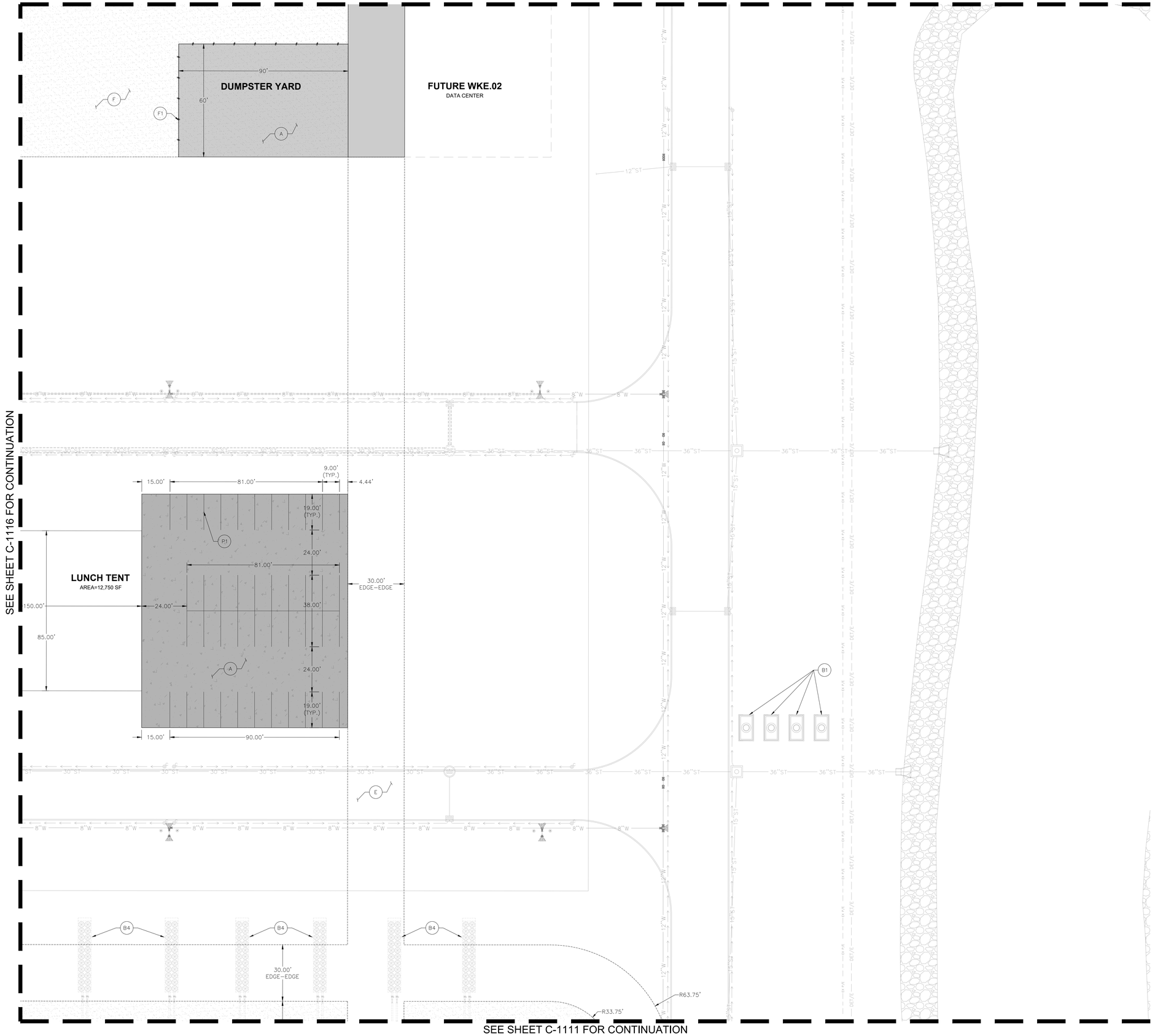
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4/21/2022 4:53 PM C-1116 LOGISTICS DIMENSION PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1123 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
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SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
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STRIPING AND SIGNAGE KEY

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FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
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N

SCALE
0' 10' 20' 40'

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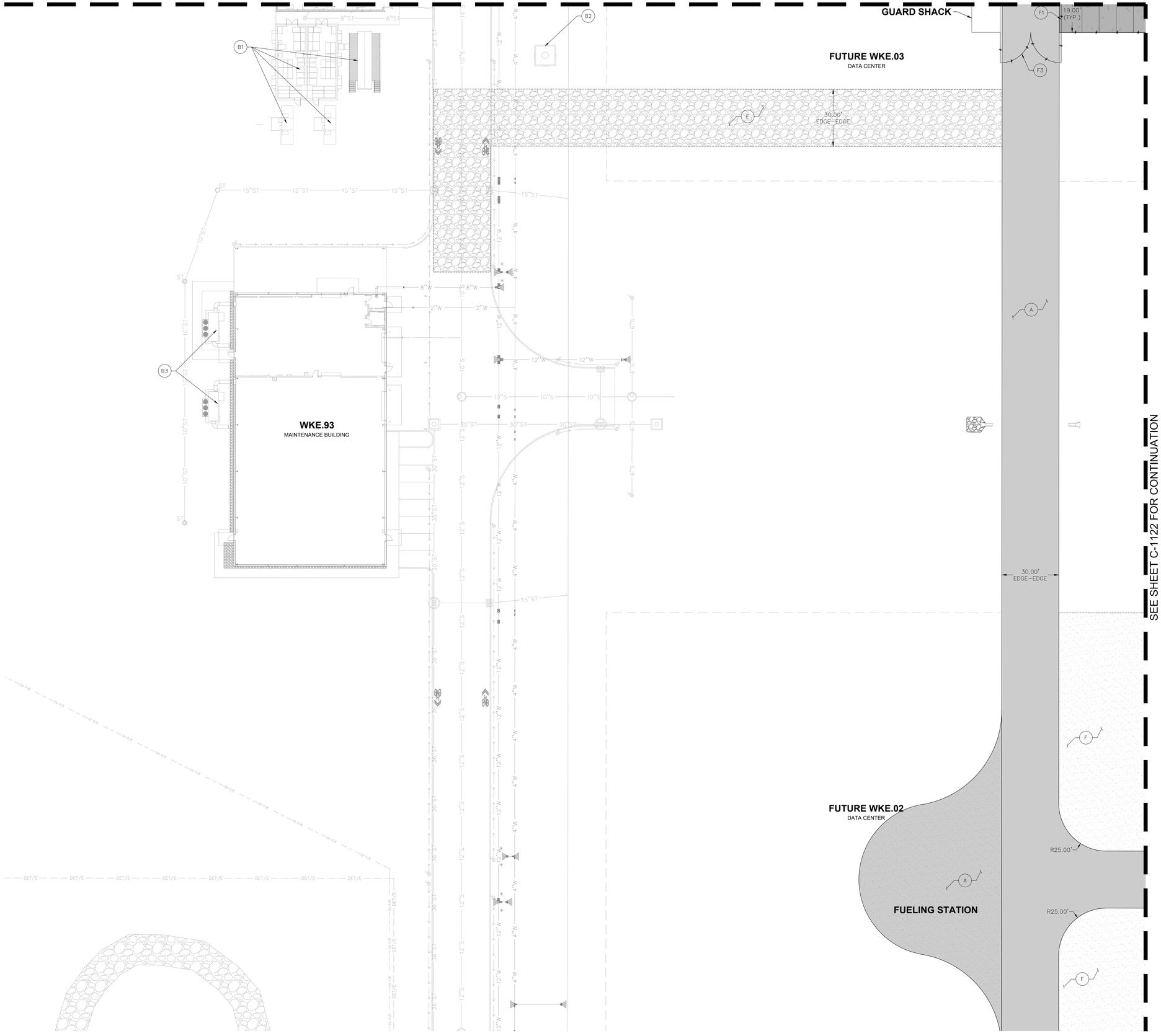
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APPLE PROJECT NO. F.21D42

SEE SHEET C-1127 FOR CONTINUATION



SEE SHEET C-1122 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
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4121 NW Urbandale Drive
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515-369-4400

kW Mission Critical
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Milwaukee, WI 53202
414-333-6427

ISSUES

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3	2022.04.05	CITY OF WAUKEE SUBMITTAL #3
4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

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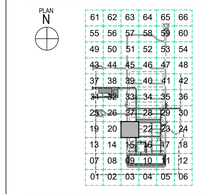
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Date of issue:
04.05.2022

KEYPLAN



LOGISTICS DIMENSION PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

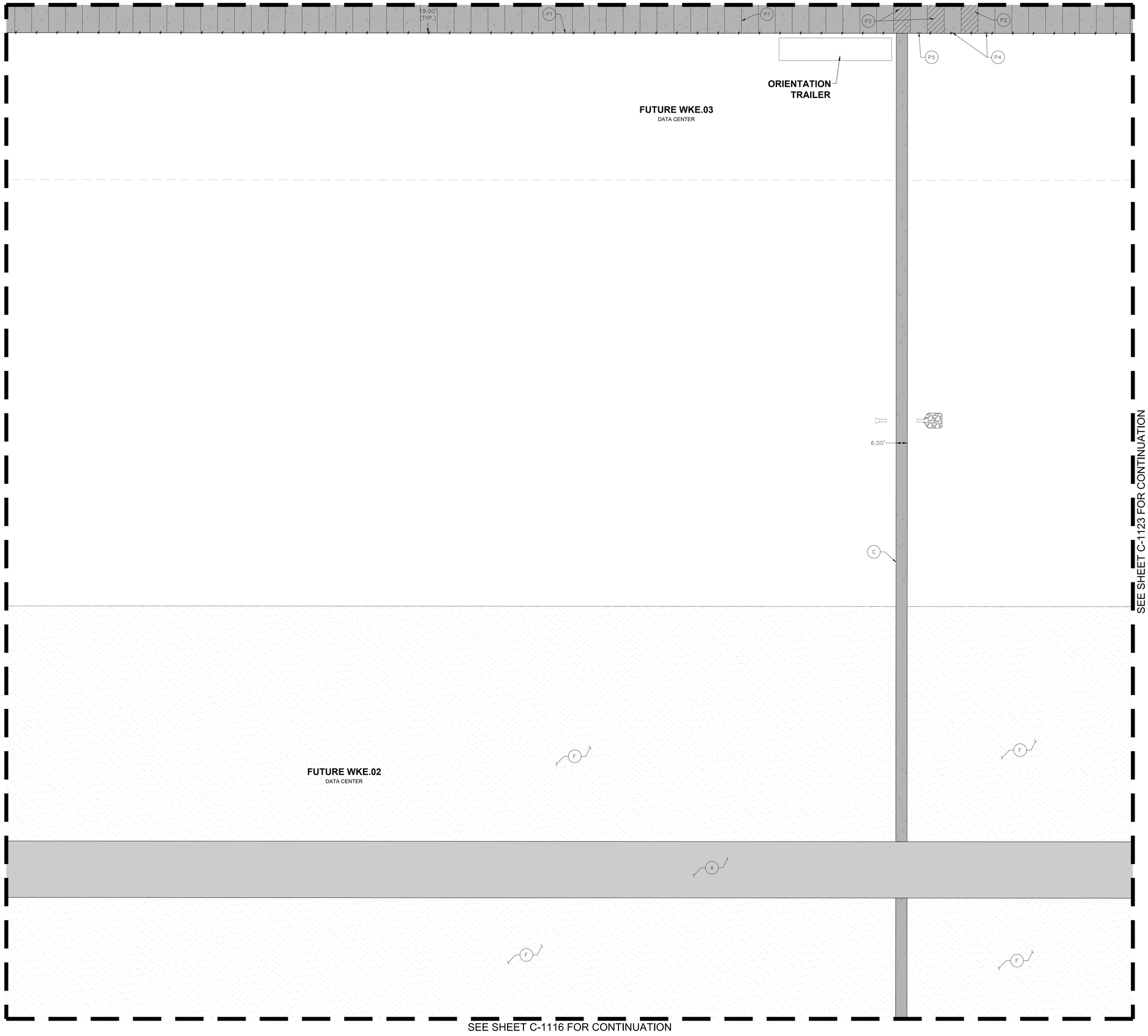
C-1121

4/21/2022 4:54 PM C-1121 LOGISTICS DIMENSION PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1128 FOR CONTINUATION



SEE SHEET C-1121 FOR CONTINUATION

SEE SHEET C-1123 FOR CONTINUATION

SEE SHEET C-1116 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
- (B4) FUTURE MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)

STRIPING AND SIGNAGE KEY

(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

SCALE
0' 10' 20' 40'

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
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PROFESSIONAL ENGINEER 20811 IOWA

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LOGISTICS DIMENSION PLAN

JOB 21245.0000
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C-1122

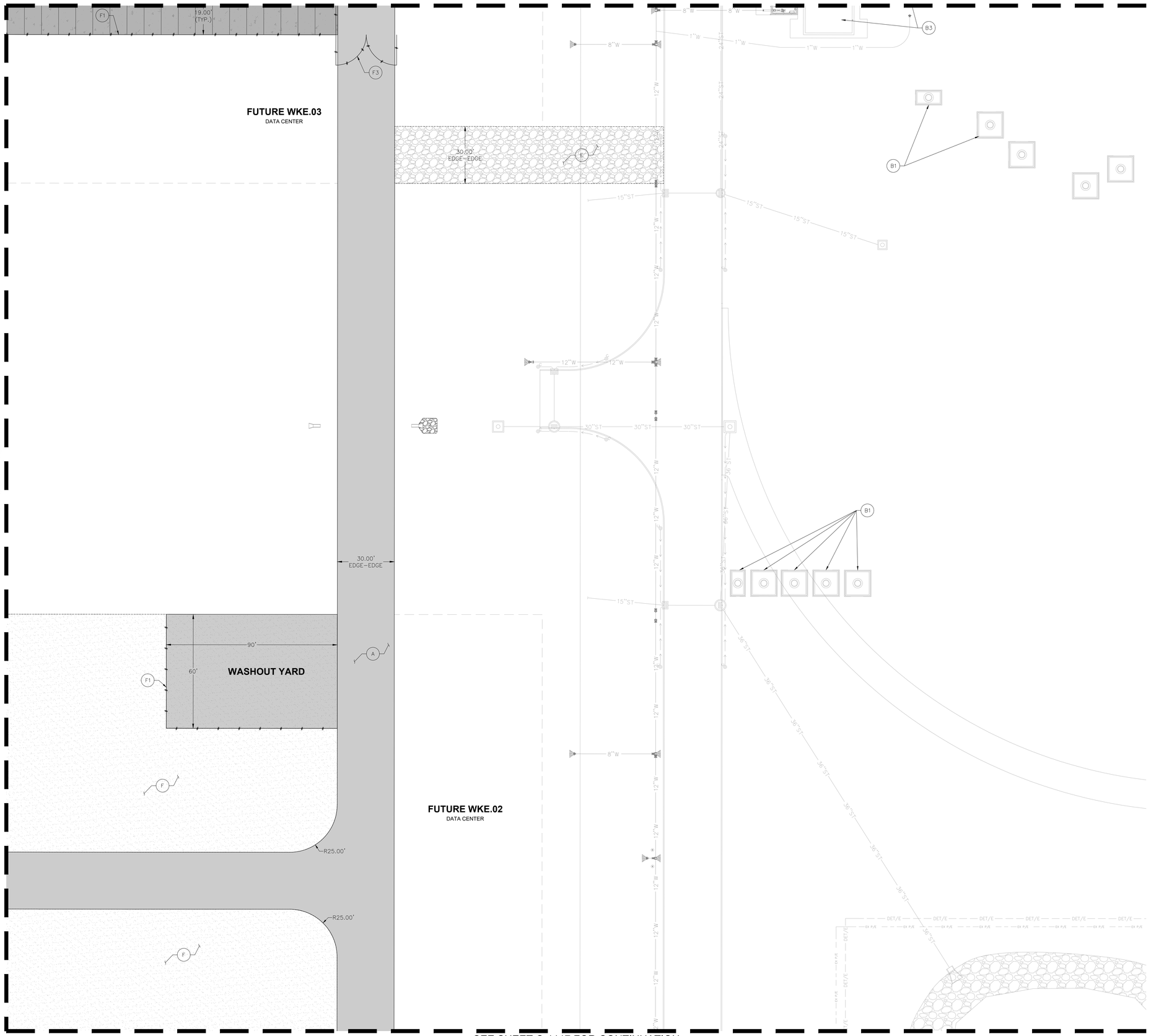
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APPLE PROJECT NO. F.21D42

SEE SHEET C-1129 FOR CONTINUATION

SEE SHEET C-1122 FOR CONTINUATION

SEE SHEET C-1117 FOR CONTINUATION



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
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- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
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STRIPING AND SIGNAGE KEY

(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

SCALE
0 10' 20' 40'

CORGAN

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LOGISTICS DIMENSION PLAN

JOB 21245.0000
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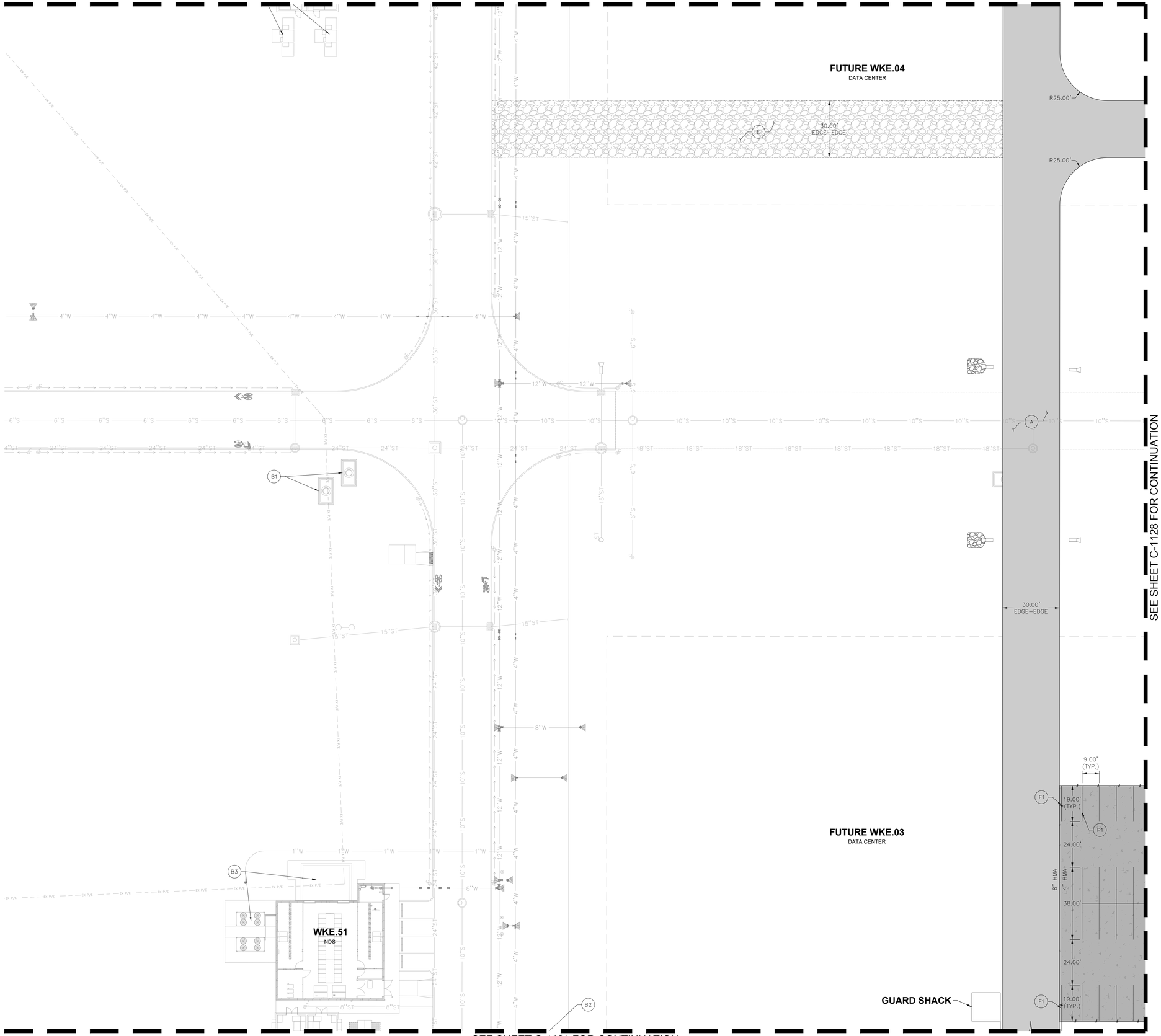
C-1123

4/21/2022 4:56 PM C-1123 LOGISTICS DIMENSION PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1133 FOR CONTINUATION



SEE SHEET C-1128 FOR CONTINUATION

SEE SHEET C-1121 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
- (B4) FUTURE MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)

STRIPING AND SIGNAGE KEY

(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

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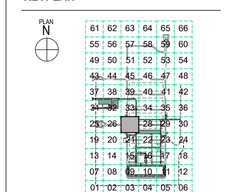
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KEYPLAN



LOGISTICS DIMENSION PLAN

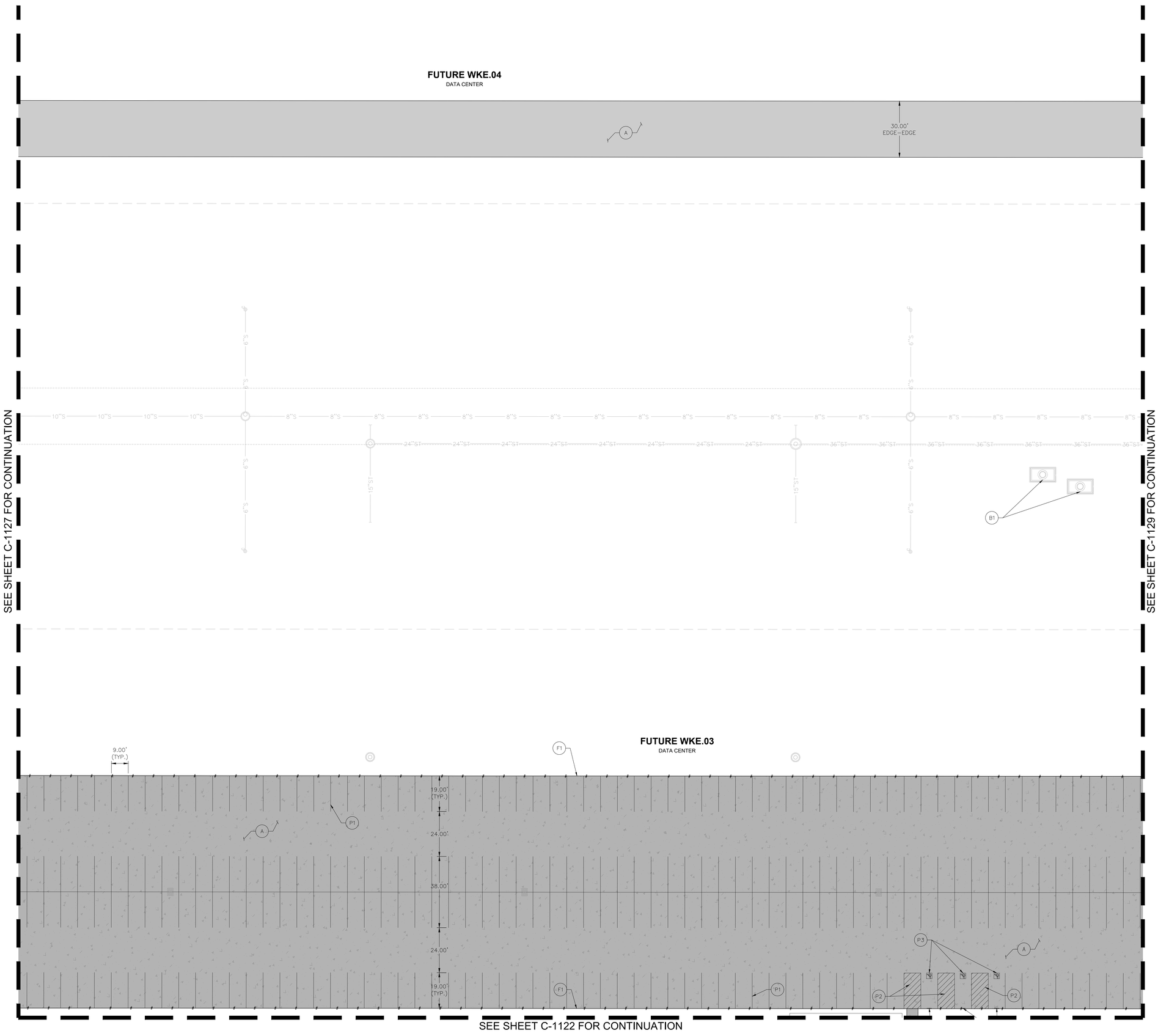
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C-1127

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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8" CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
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- (D) PCC SIDEWALK
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- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
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SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
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FENCING AND GATE KEY

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LOGISTICS DIMENSION PLAN

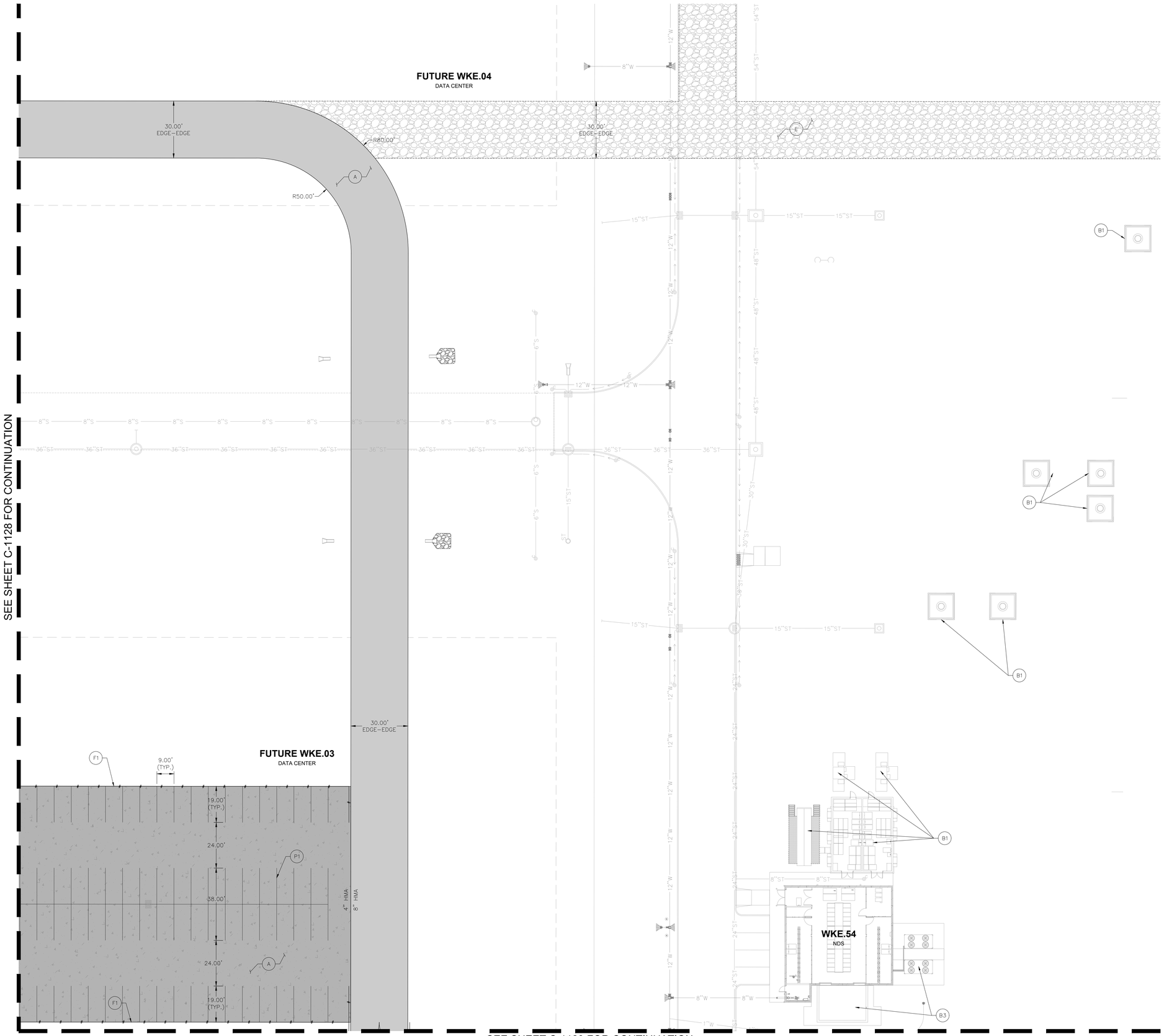
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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
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- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

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SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
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0 10' 20' 40'

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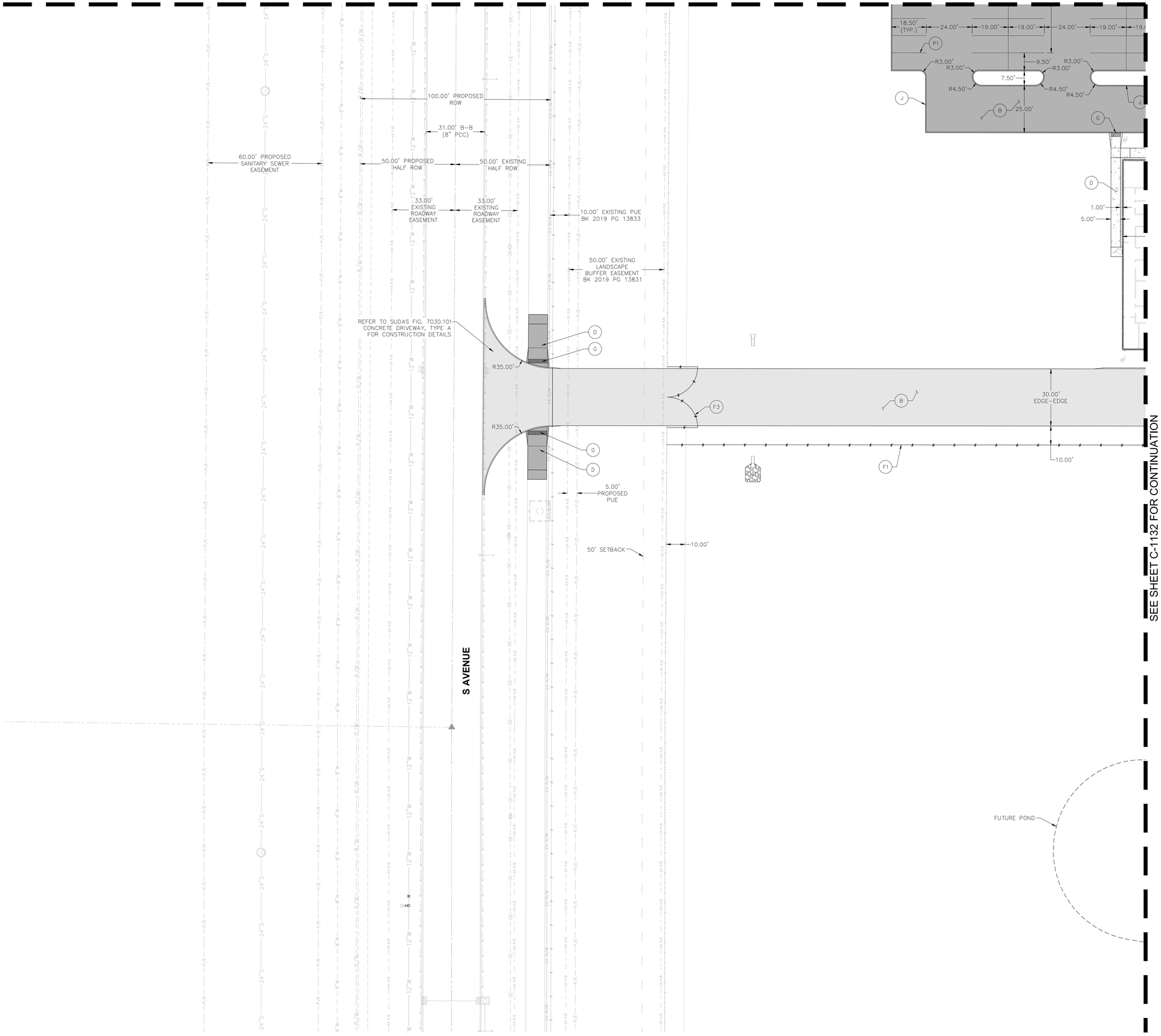
C-1129

APPLE PROJECT NO. F.21D42

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SEE SHEET C-1137 FOR CONTINUATION



SEE SHEET C-1132 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
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- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

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STRIPING AND SIGNAGE KEY

(ALL CALLOUTS ARE TYPICAL)

- (P1) 4" WIDE, YELLOW PARKING STRIPE
- (P2) 4" WIDE, YELLOW STRIPING 36" MAX. O.C. AT 45°
- (P3) ACCESSIBLE PARKING SYMBOL
- (P4) ACCESSIBLE PARKING SIGN
- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

CORGAN

401 N. Houston Street
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WKE.SITE
2995 W. HICKMAN RD
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3333 Lee Parkway, Suite 475
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kW Mission Critical
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4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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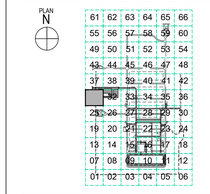
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RYAN J. HARDISTY
20811
IOWA

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Date of issue:
04.05.2022

KEYPLAN



LOGISTICS DIMENSION PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

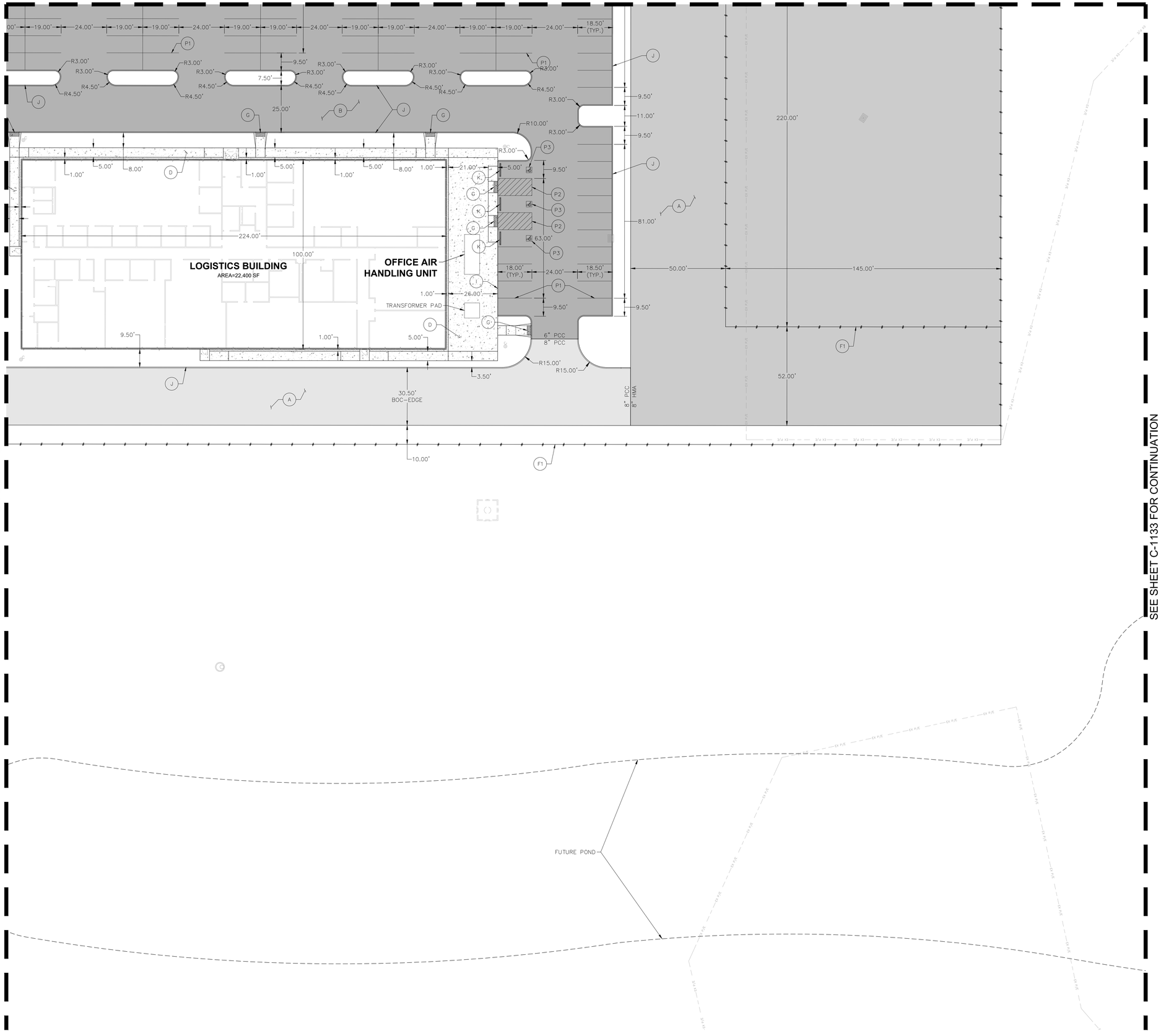
C-1131

4/21/2022 4:58 PM C-1131 LOGISTICS DIMENSION PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1138 FOR CONTINUATION



SEE SHEET C-1131 FOR CONTINUATION

SEE SHEET C-1133 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
- (B3) MECHANICAL EQUIPMENT (REFER TO MECHANICAL PLANS)
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- (P5) ACCESSIBLE PARKING SIGN WITH VAN TAG

FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

- (F1) 8' TALL GALVANIZED CHAIN LINK FENCE
- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

SCALE 0' 10' 20' 40'

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LOGISTICS DIMENSION PLAN

JOB 21245.0000
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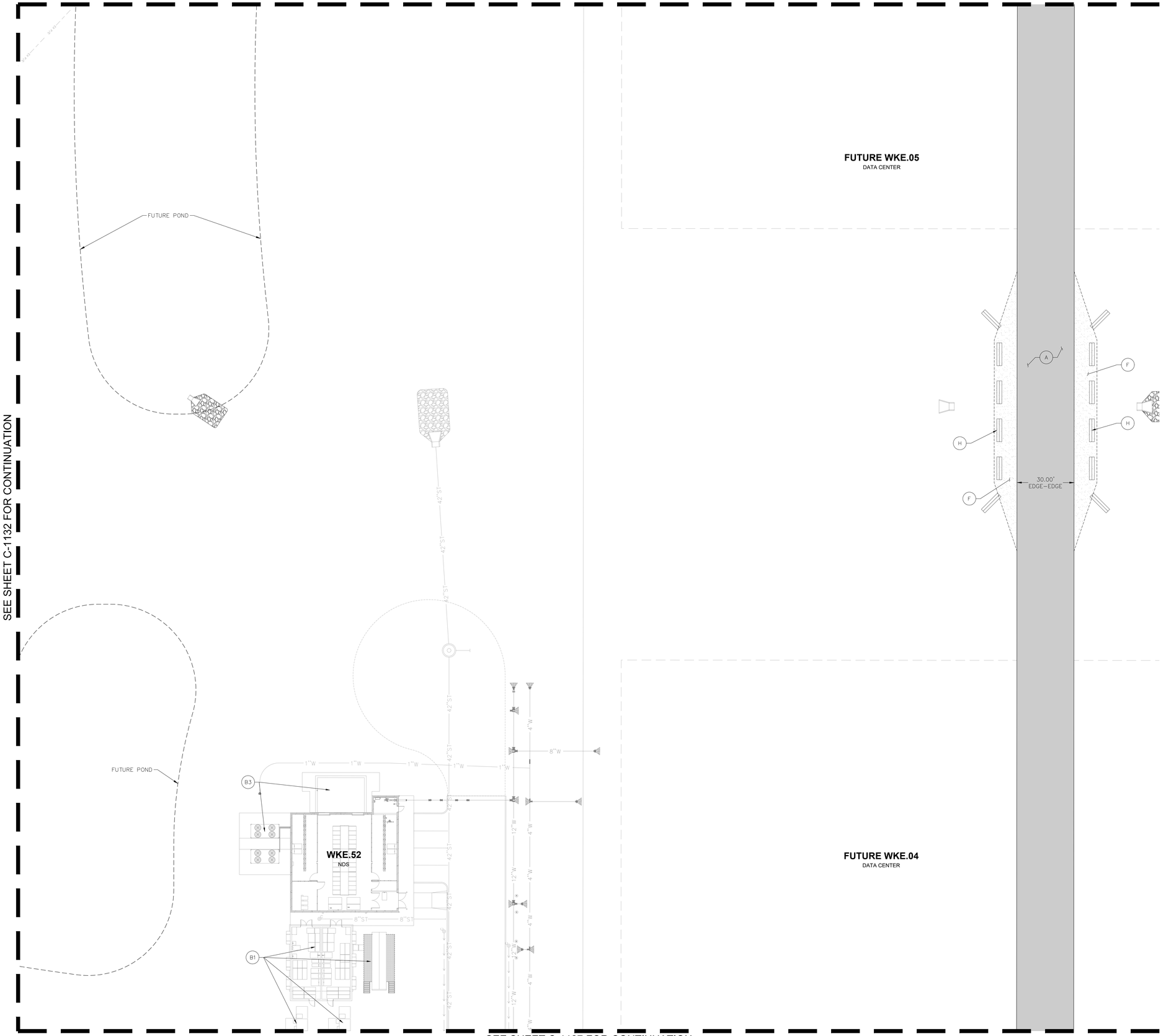
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APPLE PROJECT NO. F.21D42

SEE SHEET C-1139 FOR CONTINUATION

SEE SHEET C-1132 FOR CONTINUATION



SEE SHEET C-1127 FOR CONTINUATION

LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8" CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
- JERSEY BARRIER
- WHEEL STOP

SITE KEY (ALL CALLOUTS ARE TYPICAL)

- (A) HMA PAVEMENT
- (B) PCC PAVEMENT
- (C) HMA SIDEWALK
- (D) PCC SIDEWALK
- (E) CRANE ACCESS ROAD
- (F) GRANULAR SURFACING
- (G) DETECTABLE WARNING PANEL
- (H) JERSEY BARRIER
- (I) CLASS 'A' INTEGRAL CURB AND SIDEWALK
- (J) 6" STANDARD CONCRETE CURB
- (K) WHEEL STOP

SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

- (B1) ELECTRICAL EQUIPMENT (REFER TO ELECTRICAL PLANS)
- (B2) TELECOM EQUIPMENT (REFER TO TELECOM PLANS)
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FENCING AND GATE KEY

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LOGISTICS DIMENSION PLAN

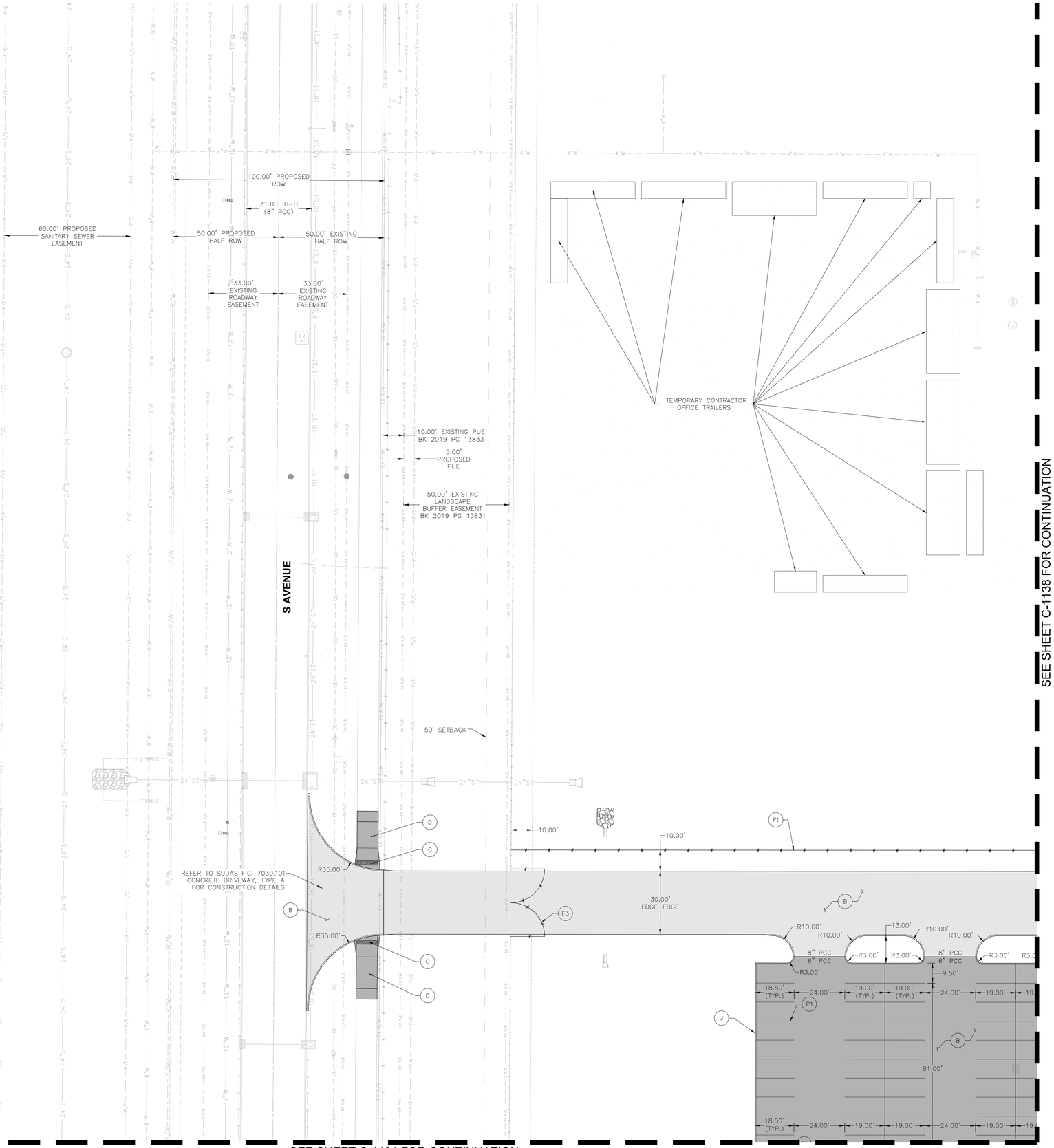
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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8' CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC SIDEWALK WALK
- CRANE ACCESS ROAD
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- (A) HMA PAVEMENT
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SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

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FENCING AND GATE KEY

(ALL CALLOUTS ARE TYPICAL)

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- (F2) MANUALLY OPERATED BARRIER ARM
- (F3) MANUAL SWING GATE

SCALE 0 10' 20' 40'

SEE SHEET C-1138 FOR CONTINUATION

SEE SHEET C-1131 FOR CONTINUATION

CORGAN

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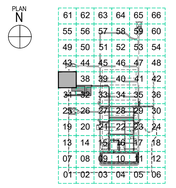
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KEYPLAN



LOGISTICS DIMENSION PLAN

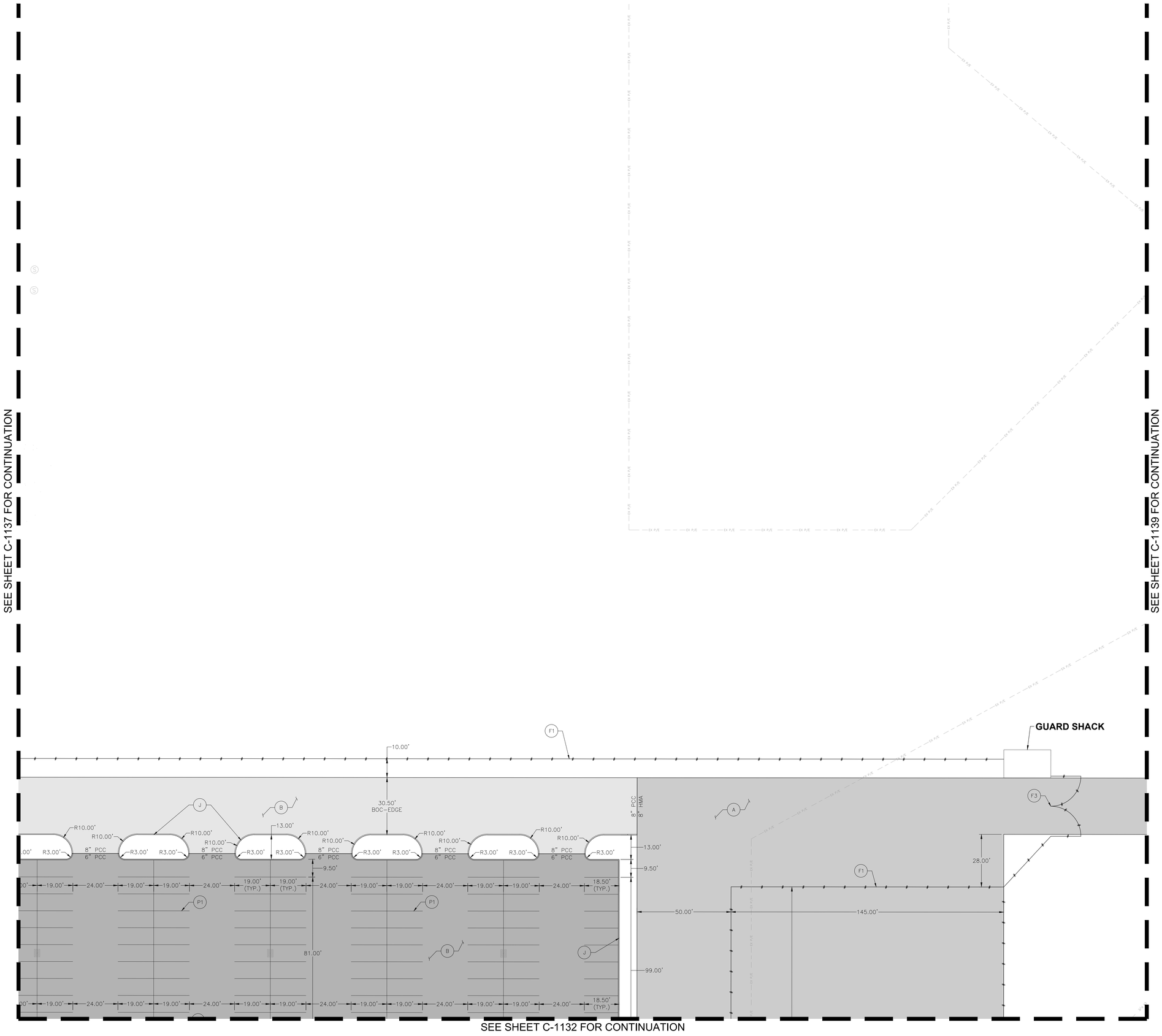
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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- PAVEMENT EDGE
- 8" CHAIN LINK FENCE
- 8" PCC PAVEMENT
- 8" HMA PAVEMENT
- 4" HMA PAVEMENT
- 6" PCC PAVEMENT
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- GRAVEL SURFACING
- DETECTABLE WARNING PANEL
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SITE FEATURES (BY OTHERS)

(ALL CALLOUTS ARE TYPICAL)

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SCALE 0 10' 20' 40'

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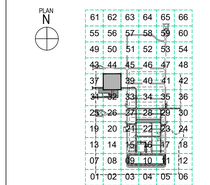
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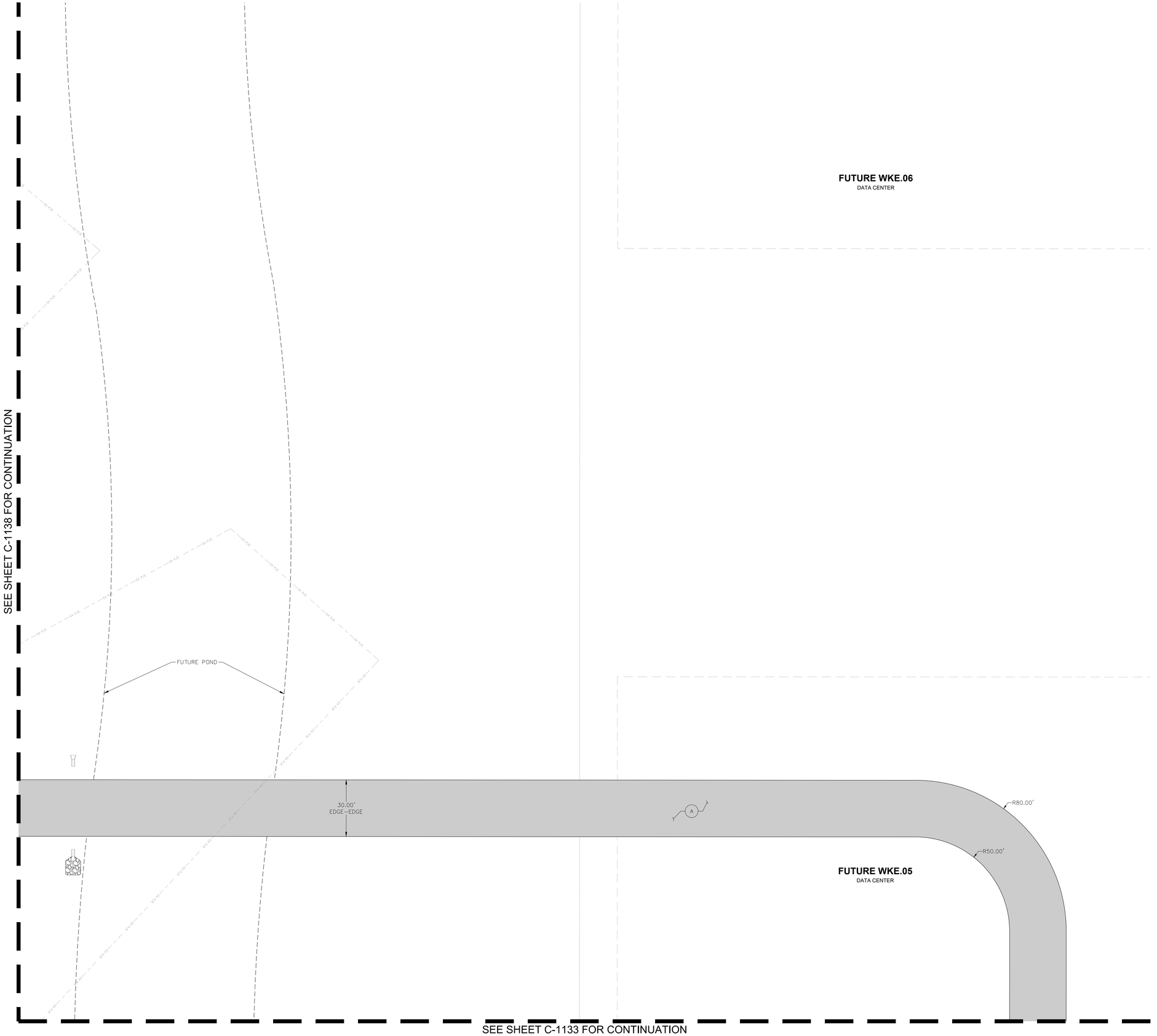
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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
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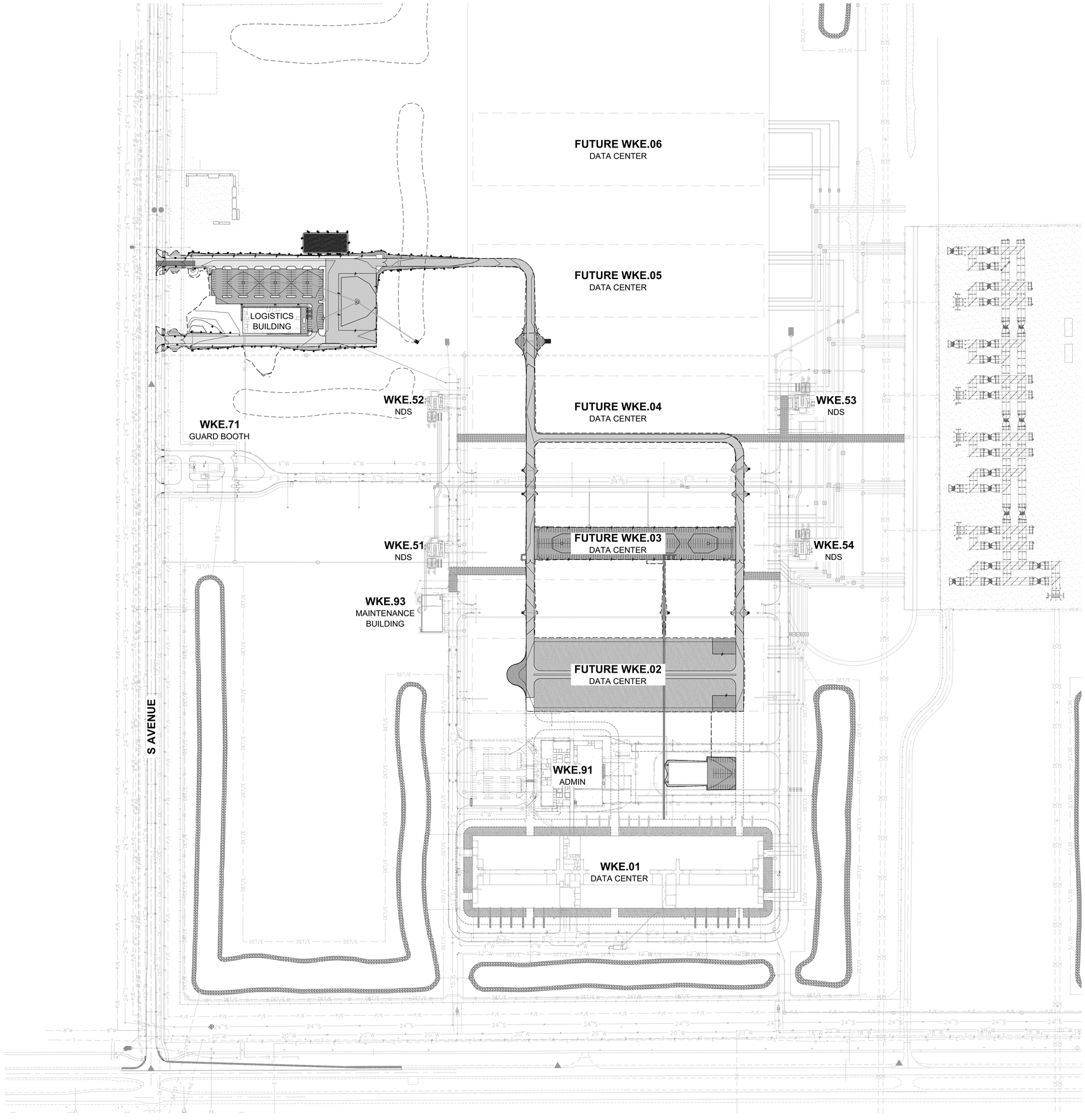
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APPLE PROJECT NO. F.21D42

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GRADING AND EROSION CONTROL NOTES

1. PRIOR TO ANY GRADING ON SITE, A COPY OF THE NPDES PERMIT SHALL BE PROVIDED TO THE CITY OF WAUKEE STORMWATER DEPARTMENT AND A CITY OF WAUKEE COSESCO PERMIT IS REQUIRED TO BE ISSUED.
2. CONTRACTOR SHALL STRIP ALL DELETERIOUS MATERIAL. THE TOP 8 INCHES OF TOPSOIL SHALL TO BE STOCKPILED AND RESPREAD AFTER GRADING IS COMPLETE. THE TOPSOIL RESPREAD DEPTH SHALL BE A MINIMUM OF 8 INCHES THICK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SUITABLE TOPSOIL STOCKPILE SITE.
3. MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
4. ALL SPOT ELEVATIONS ARE FORM GRADE (FG) OR TOP OF FINISHED SURFACES UNLESS OTHERWISE NOTED.
5. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.
6. SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
7. THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
9. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN FOR DETAILS ON EROSION CONTROL. REFER TO PROJECT MORGAN – WKE.01 SITE FOR FULL SITE EROSION CONTROL PLAN.
10. CONCRETE SLURRY FROM SAW CUTTING SHALL BE CONTAINED AND DISPOSED OF IN COMPLIANCE WITH GENERAL PERMIT #2 REQUIREMENTS.

STABILIZATION QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	3,902
2	PERMANENT SEEDING (TYPE 1), FERTILIZING, AND MULCHING	AC	2.0
3	TEMPORARY SEEDING (TYPE 4), FERTILIZING, AND MULCHING	AC	2.0
4	INLET PROTECTION DEVICES	EA	8
5	CONCRETE WASHOUT PIT	LS	1

DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 TO AN UNNAMED TRIBUTARY TO LITTLE WALNUT CREEK ±9,000 FT

TOTAL AREA DISTURBED TO DISCHARGE POINT	6.81 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	24,516 CU FT
VOLUME PROVIDED IN SILT FENCE (3,153 LF @ 4.5 CU FT/LF OF FENCE)	14,189 CU FT
VOLUME PROVIDED IN TEMPORARY SEDIMENT BASIN #2	376,710 CU FT
TOTAL VOLUME PROVIDED	390,899 CU FT

DISCHARGE POINT #2 TO SUGAR CREEK ±12,000 FT

TOTAL AREA DISTURBED TO DISCHARGE POINT	0.74 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	2,664 CU FT
VOLUME PROVIDED IN SILT FENCE (749 LF @ 4.5 CU FT/LF OF FENCE)	3,371 CU FT
TOTAL VOLUME PROVIDED	3,371 CU FT

REFER TO THE SITE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND THE PROJECT MORGAN WKE.SITE SITE PLAN FOR ADDITIONAL DETAILS ON TEMPORARY SEDIMENT BASIN #2 AND FOR EROSION AND SEDIMENT CONTROLS FOR THE MASS GRADING OF THE SITE.

SCALE
0' 75' 150' 300'

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
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Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
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Milwaukee, WI 53202
414-333-6427

ISSUES

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KEYPLAN

PLAN N

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LOGISTICS GRADING & EROSION CONTROL PLAN OVERALL

JOB 21245.0000
DATE 4/21/2022
SHEET

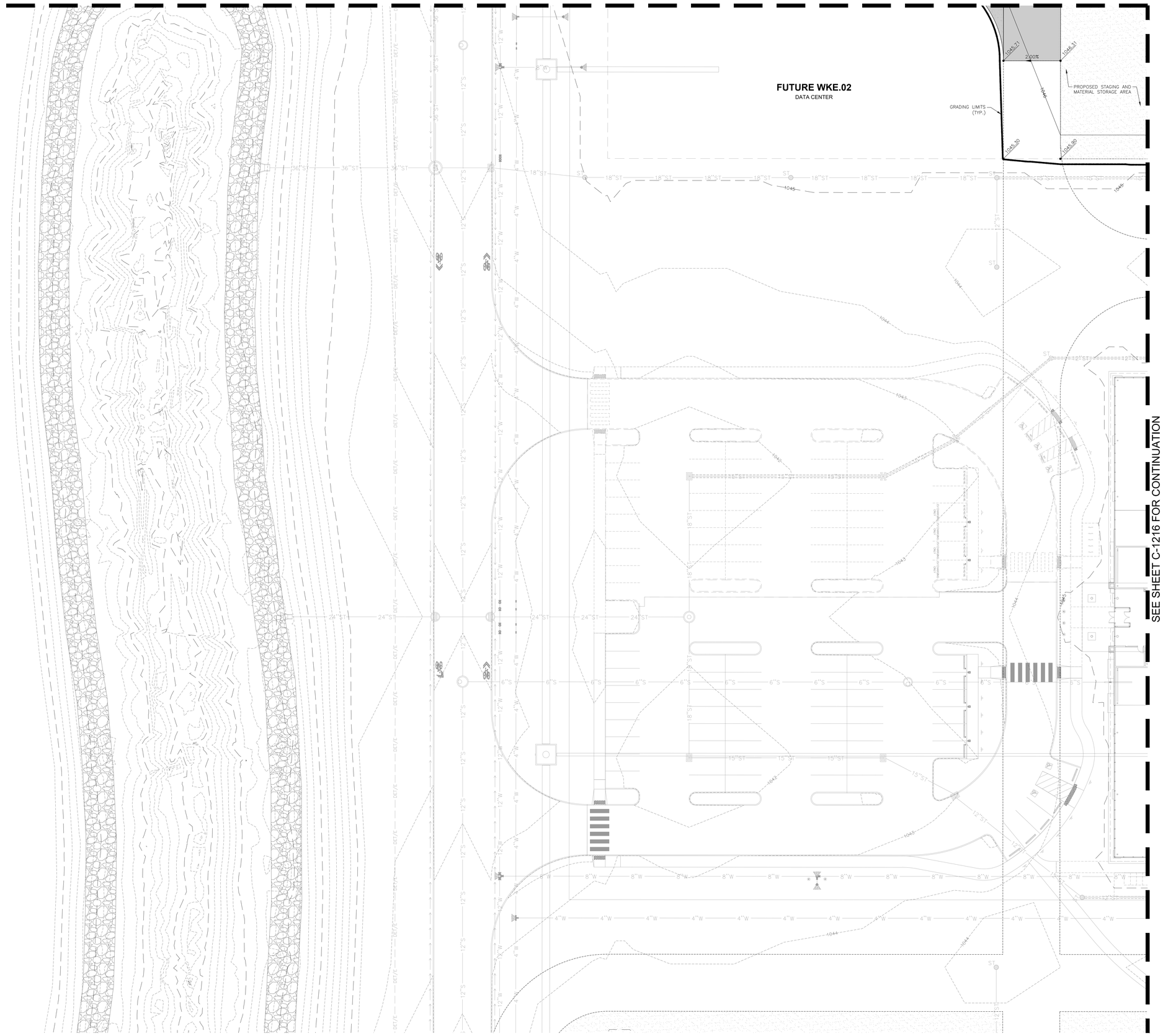
C-1200

APPLE PROJECT NO. F.21D42

4/21/2022 5:03 PM C-1200 LOGISTICS GRADING & EROSION CONTROL PLAN OVERALL

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SEE SHEET C-1221 FOR CONTINUATION



SCALE
0' 10' 20' 40'

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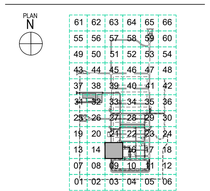
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KEYPLAN

PLAN N



LOGISTICS GRADING & EROSION CONTROL PLAN

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C-1215

APPLE PROJECT NO. F.21D42

4/21/2022 5:04 PM C-1215 LOGISTICS GRADING & EROSION CONTROL PLAN

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FUTURE WKE.02
DATA CENTER

PROPOSED STAGING AND MATERIAL STORAGE AREA

PROPOSED STAGING AND MATERIAL STORAGE AREA

DITCH

GRADING LIMITS (TYP.)

WKE.91
ADMIN BUILDING

LUNCH TENT
F.F.E.=1044.50

1044.80

1044.50

SEE SHEET C-1215 FOR CONTINUATION

SEE SHEET C-1217 FOR CONTINUATION

SCALE
0' 10' 20' 40'

4/21/2022 5:04 PM C-1216 LOGISTICS GRADING & EROSION CONTROL PLAN

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RYAN J. HARDISTY
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LOGISTICS GRADING & EROSION CONTROL PLAN

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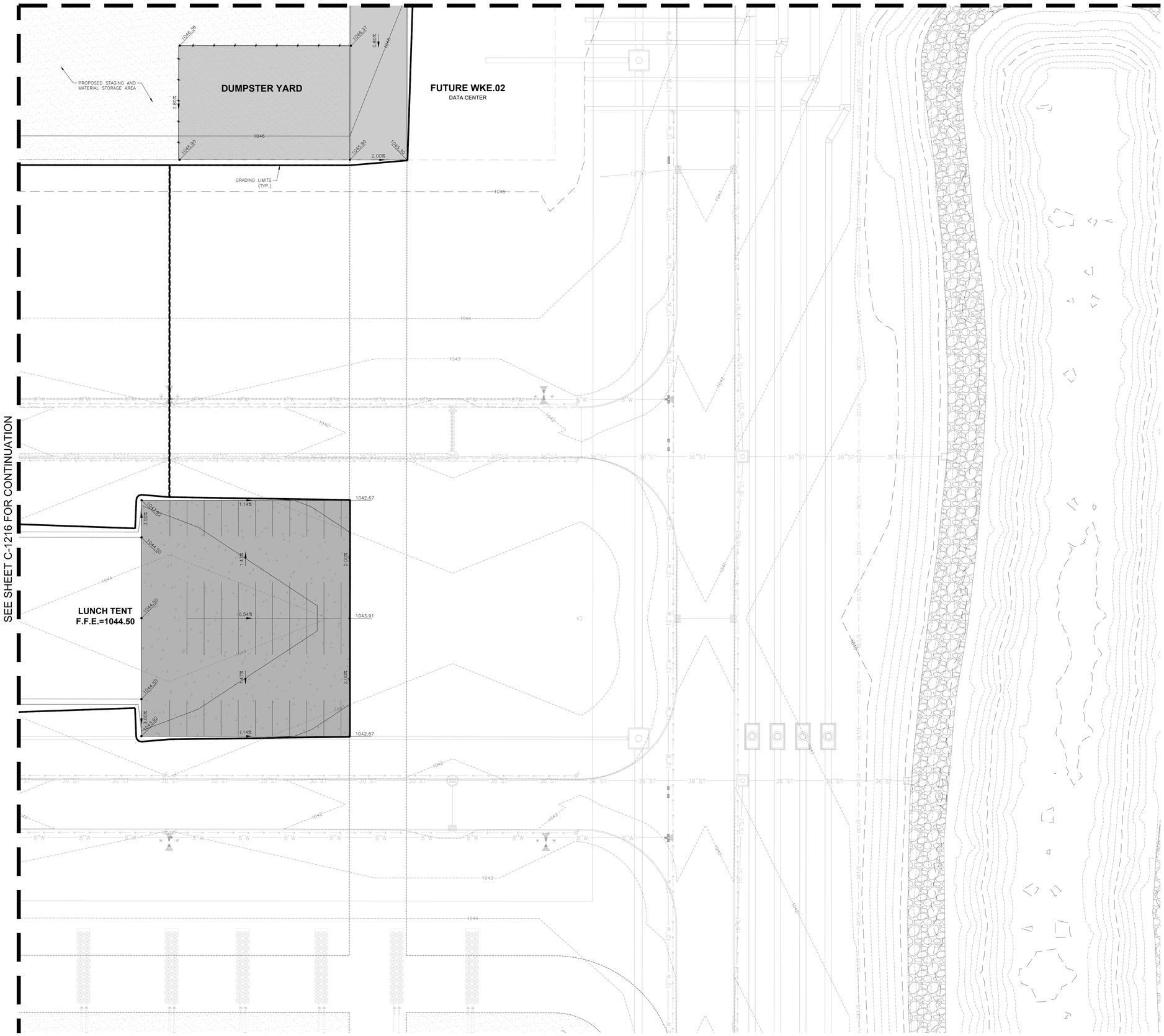
C-1216

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1223 FOR CONTINUATION

SEE SHEET C-1216 FOR CONTINUATION



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SCALE
0' 10' 20' 40'

LOGISTICS GRADING & EROSION CONTROL PLAN

JOB 21245.0000
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C-1217

APPLE PROJECT NO. F.21D42

4/21/2022 5:05 PM C-1217 LOGISTICS GRADING & EROSION CONTROL PLAN

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SEE SHEET C-1227 FOR CONTINUATION

GUARD SHACK

FUTURE WKE.03
DATA CENTER

WKE.93
MAINTENANCE BUILDING

GRADING LIMITS (TYP.)

5 TONS OF CLASS 'E' RIP-RAP

FUTURE WKE.02
DATA CENTER

FUELING STATION

PROPOSED STAGING AND MATERIAL STORAGE AREA

PROPOSED STAGING AND MATERIAL STORAGE AREA

SEE SHEET C-1222 FOR CONTINUATION

SEE SHEET C-1215 FOR CONTINUATION

SCALE
0' 10' 20' 40'

4/21/2022 5:06 PM C-1221 LOGISTICS GRADING & EROSION CONTROL PLAN

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LOGISTICS GRADING & EROSION CONTROL PLAN

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C-1221

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1228 FOR CONTINUATION

SEE SHEET C-1221 FOR CONTINUATION

SEE SHEET C-1223 FOR CONTINUATION

SEE SHEET C-1216 FOR CONTINUATION

ORIENTATION TRAILER

FUTURE WKE.03
DATA CENTER

FUTURE WKE.02
DATA CENTER

PROPOSED STAGING AND MATERIAL STORAGE AREA

PROPOSED STAGING AND MATERIAL STORAGE AREA

PROPOSED STAGING AND MATERIAL STORAGE AREA

PROPOSED STAGING AND MATERIAL STORAGE AREA

GRADING LIMITS (TYP.)

SCALE
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4/21/2022 5:07 PM C-1222 LOGISTICS GRADING & EROSION CONTROL PLAN

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LOGISTICS GRADING & EROSION CONTROL PLAN

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C-1222

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SEE SHEET C-1229 FOR CONTINUATION

SEE SHEET C-1222 FOR CONTINUATION

FUTURE WKE.03
DATA CENTER

WASHOUT YARD

PROPOSED STAGING AND MATERIAL STORAGE AREA

GRADING LIMITS (TYP.)

5 TONS OF CLASS "E" RIP-RAP

FUTURE WKE.02
DATA CENTER

SEE SHEET C-1217 FOR CONTINUATION

SCALE
0' 10' 20' 40'

C-1223 LOGISTICS GRADING & EROSION CONTROL PLAN

4/21/2022 5:07 PM

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SEE SHEET C-1233 FOR CONTINUATION

FUTURE WKE.04
DATA CENTER

FUTURE WKE.03
DATA CENTER

WKE.51
NDS

GUARD SHACK

5 TONS OF CLASS "E" RIP-RAP

GRADING LIMITS (TYP.)

SEE SHEET C-1228 FOR CONTINUATION

SEE SHEET C-1221 FOR CONTINUATION

SCALE 0' 10' 20' 40'

4/21/2022 5:08 PM C-1227 LOGISTICS GRADING & EROSION CONTROL PLAN

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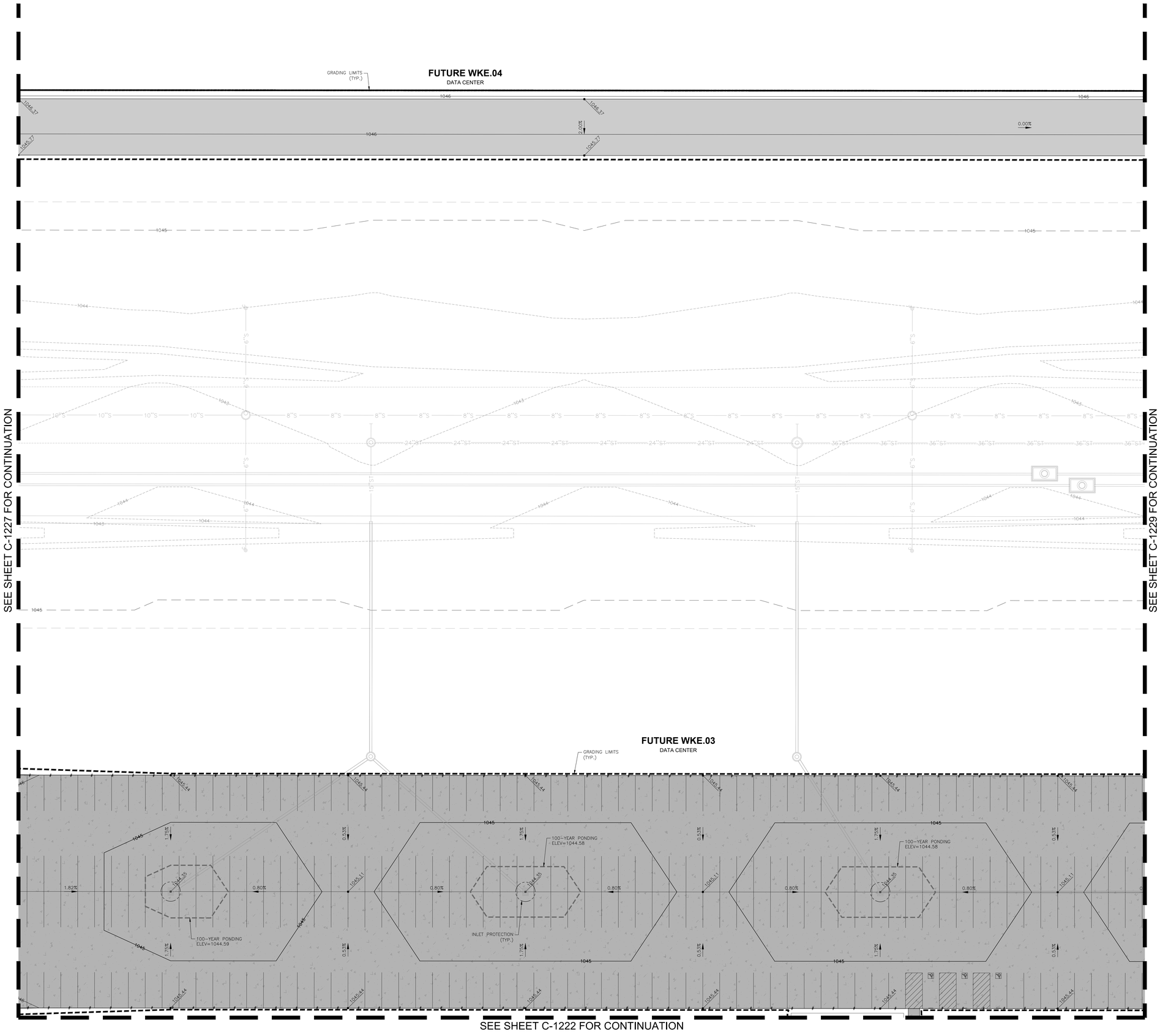
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C-1228 LOGISTICS GRADING & EROSION CONTROL PLAN

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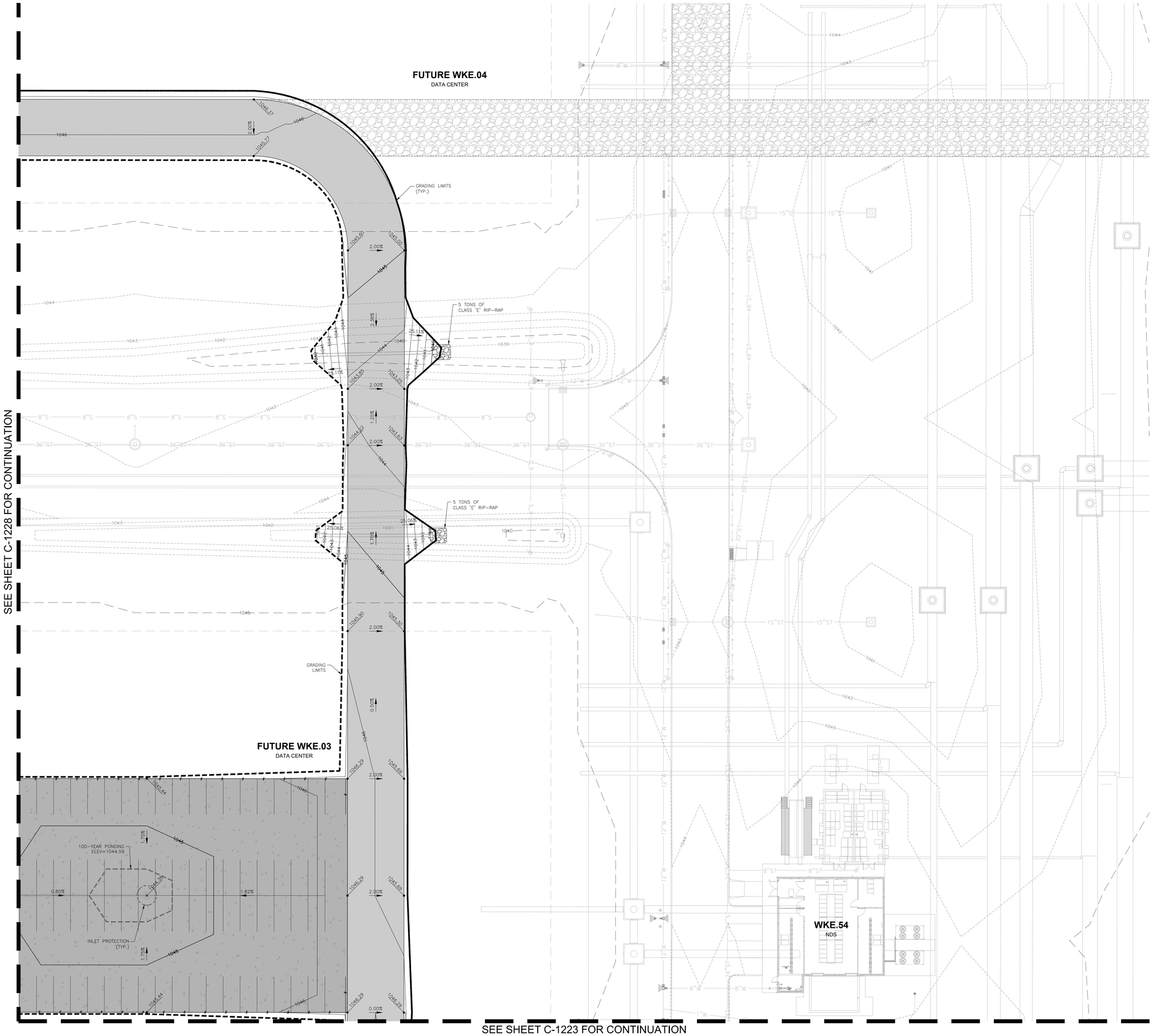
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C-1229 LOGISTICS GRADING & EROSION CONTROL PLAN

4/21/2022 5:10 PM

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4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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RYAN HARDISTY

STATE OF IOWA — PROFESSIONAL ENGINEER — RYAN J. HARDISTY — 20811

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Date of issue:
04.05.2022

KEYPLAN

PLAN N

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LOGISTICS GRADING & EROSION CONTROL PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

C-1229

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1237 FOR CONTINUATION

SEE SHEET C-1232 FOR CONTINUATION

S AVENUE

GRADING LIMITS (TYP.)

REFER TO DETAIL 'A'

REFER TO DETAIL 'B'

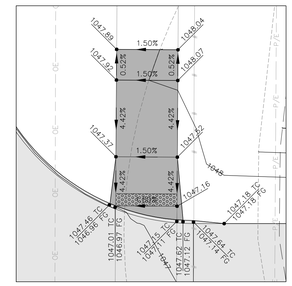
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DA #1
6.81 AC

5 TONS OF CLASS 'E' RIP-RAP

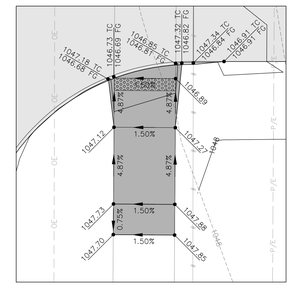
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DETAIL 'A'



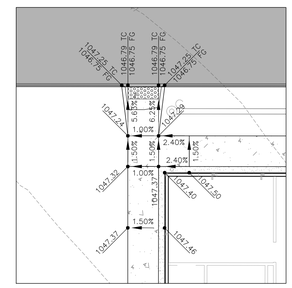
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DETAIL 'B'



SCALE 0' 5' 10' 20'

DETAIL 'C'



SCALE 0' 5' 10' 20'

SCALE 0' 10' 20' 40'

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
3333 Lee Parkway, Suite 475
Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
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Milwaukee, WI 53202
414-333-6427

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LOGISTICS GRADING & EROSION CONTROL PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

C-1231

4/21/2022 5:12 PM C-1231 LOGISTICS GRADING & EROSION CONTROL PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1238 FOR CONTINUATION

SEE SHEET C-1231 FOR CONTINUATION

SEE SHEET C-1233 FOR CONTINUATION

LOGISTICS BUILDING
F.F.E.=1047.75

OFFICE AIR HANDLING UNIT

DA #1
6.81 AC

100-YEAR PONDING
ELEV=1045.44

100-YEAR PONDING
ELEV=1045.48

100-YEAR PONDING
ELEV=1044.38

INLET PROTECTION (TYP.)

REFER TO DETAIL 'D'

REFER TO DETAIL 'E'

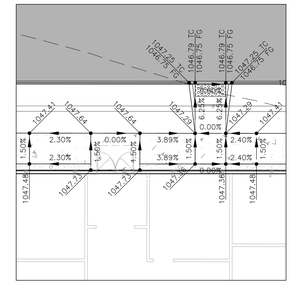
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REFER TO DETAIL 'G'

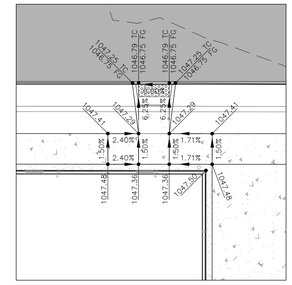
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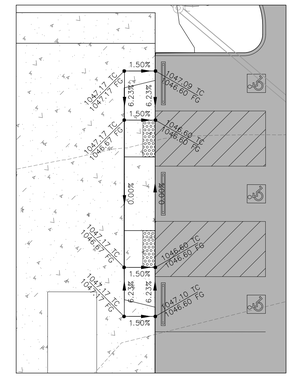
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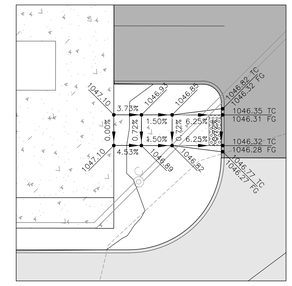
DETAIL 'E'



DETAIL 'F'



DETAIL 'G'



SCALE 0' 5' 10' 20'

SCALE 0' 10' 20' 40'

CORGAN

401 N. Houston Street
Dallas, TX 75202
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PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
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LOGISTICS GRADING & EROSION CONTROL PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

C-1232

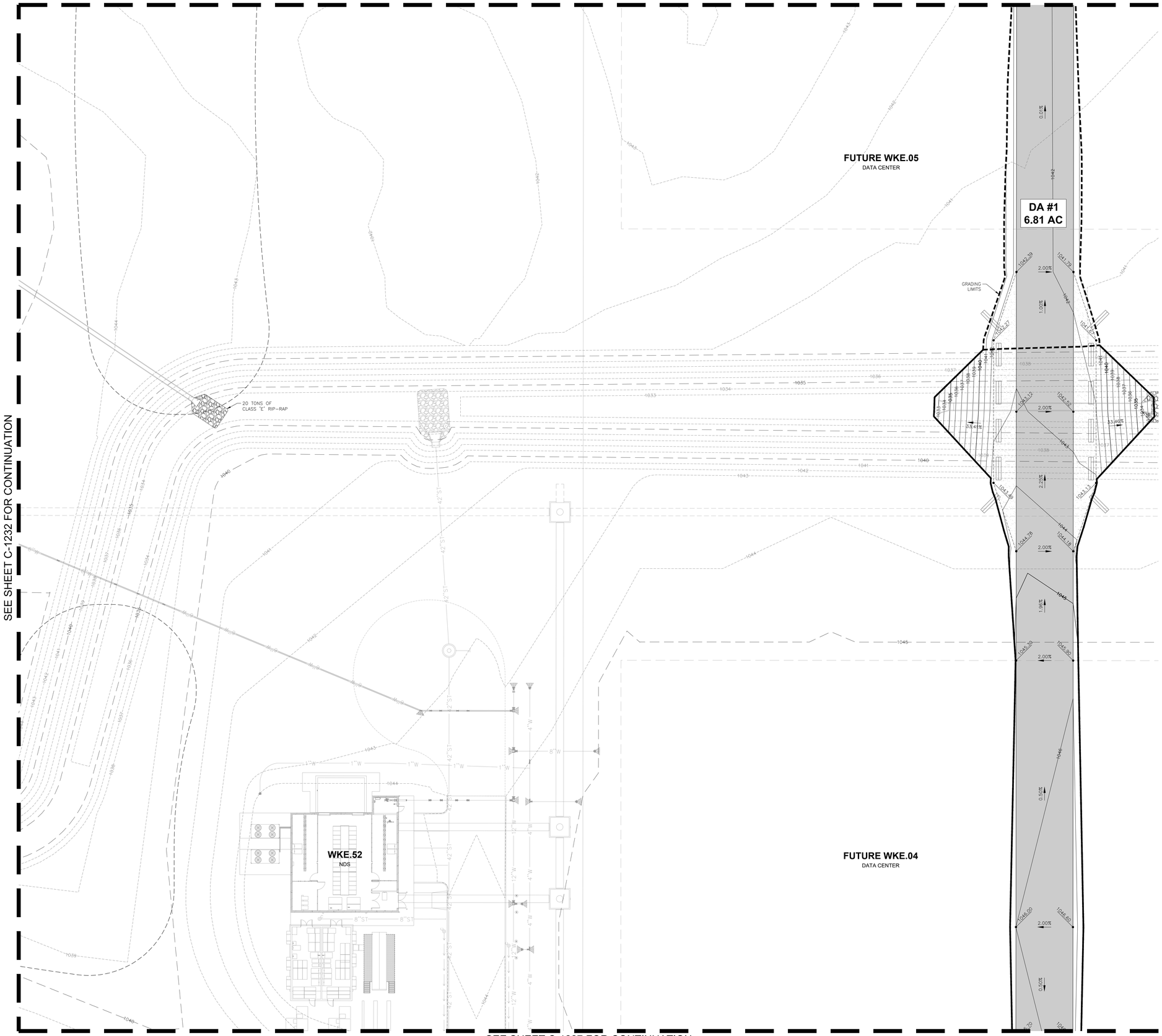
4/21/2022 5:15 PM C-1232 LOGISTICS GRADING & EROSION CONTROL PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1239 FOR CONTINUATION

SEE SHEET C-1232 FOR CONTINUATION



SEE SHEET C-1227 FOR CONTINUATION

C-1233 LOGISTICS GRADING & EROSION CONTROL PLAN

4/21/2022 5:16 PM

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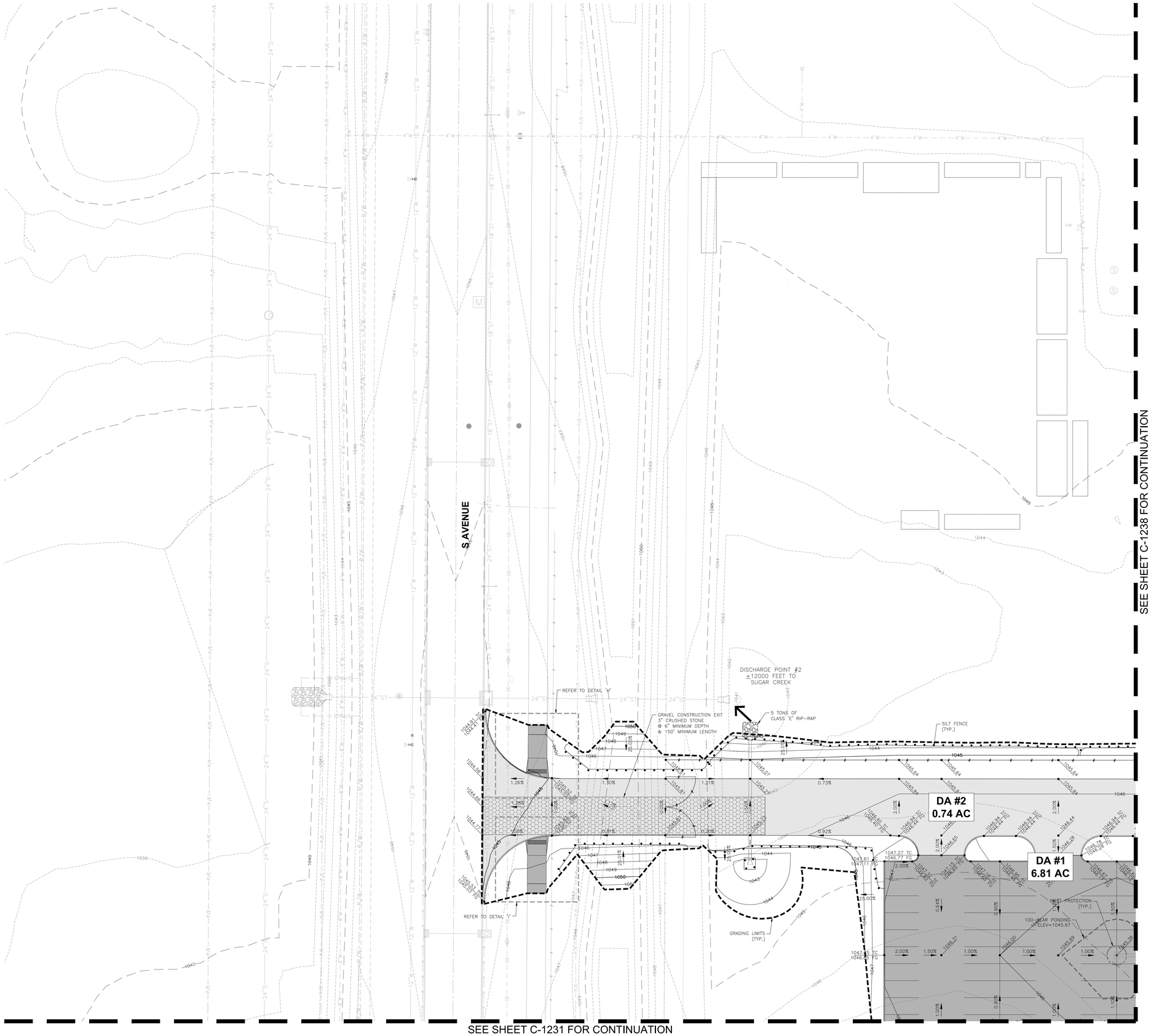
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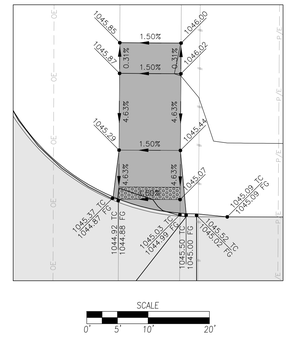
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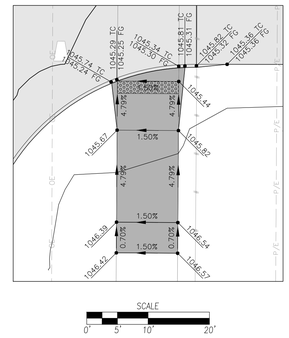
C-1233

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APPLE PROJECT NO. F.21D42







SEE SHEET C-1238 FOR CONTINUATION

SCALE
0' 10' 20' 40'

4/21/2022 5:18 PM C-1237 LOGISTICS GRADING & EROSION CONTROL PLAN

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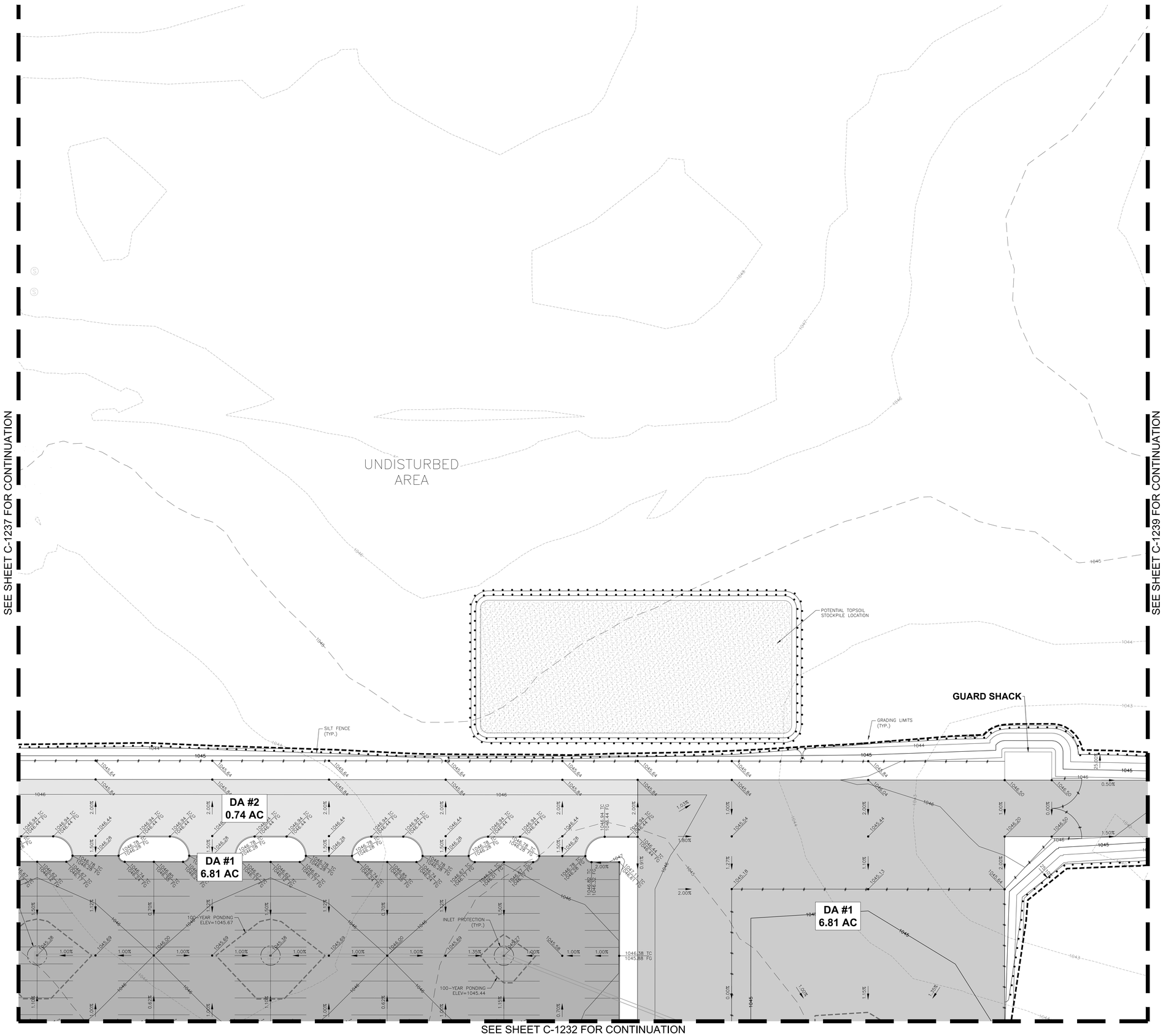
LOGISTICS GRADING & EROSION CONTROL PLAN

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4/21/2022 5:18 PM C-1238 LOGISTICS GRADING & EROSION CONTROL PLAN

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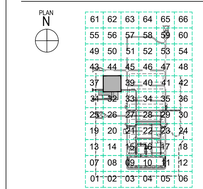
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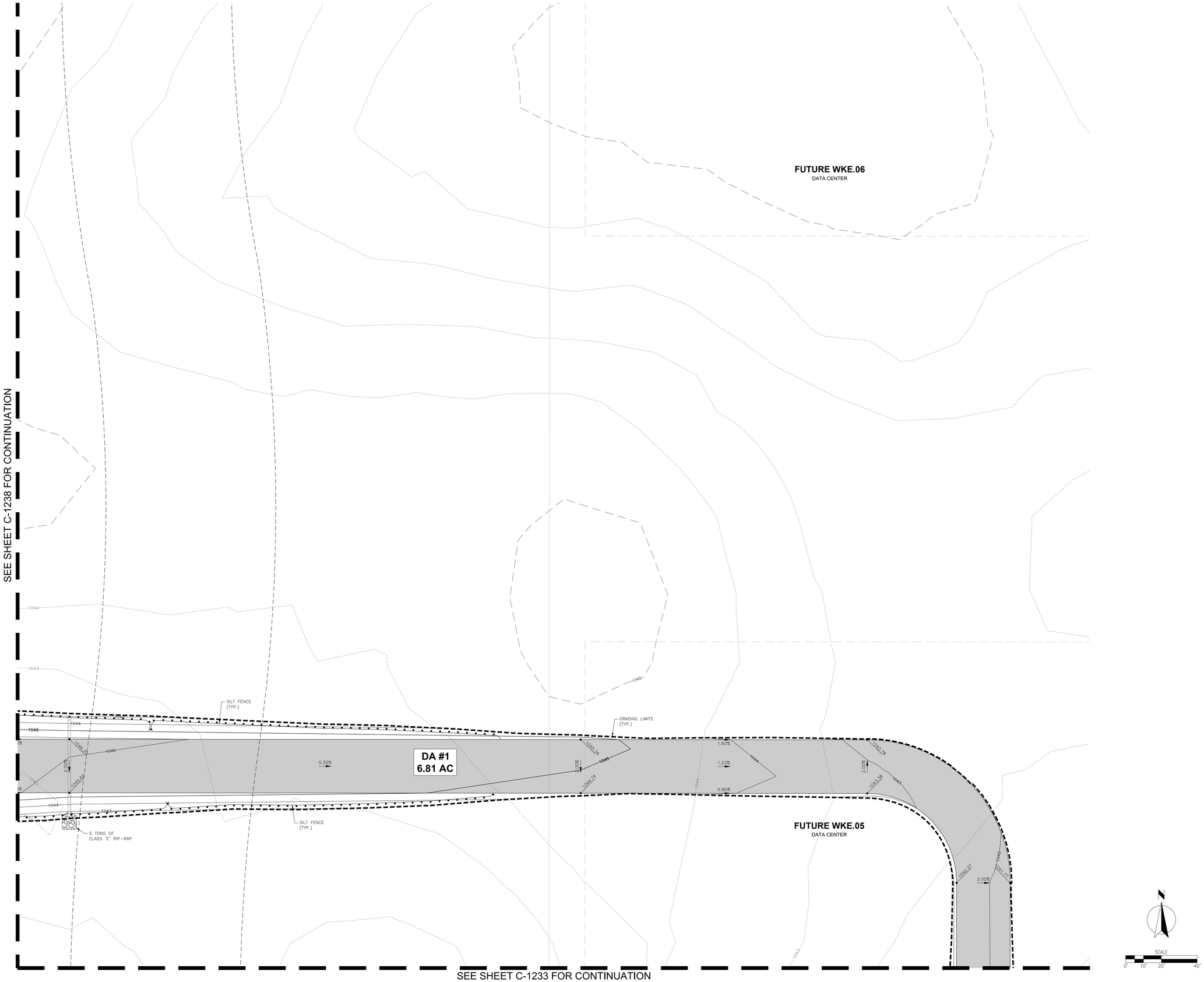
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4/21/2022 5:19 PM C-1239 LOGISTICS GRADING & EROSION CONTROL PLAN

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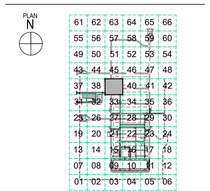
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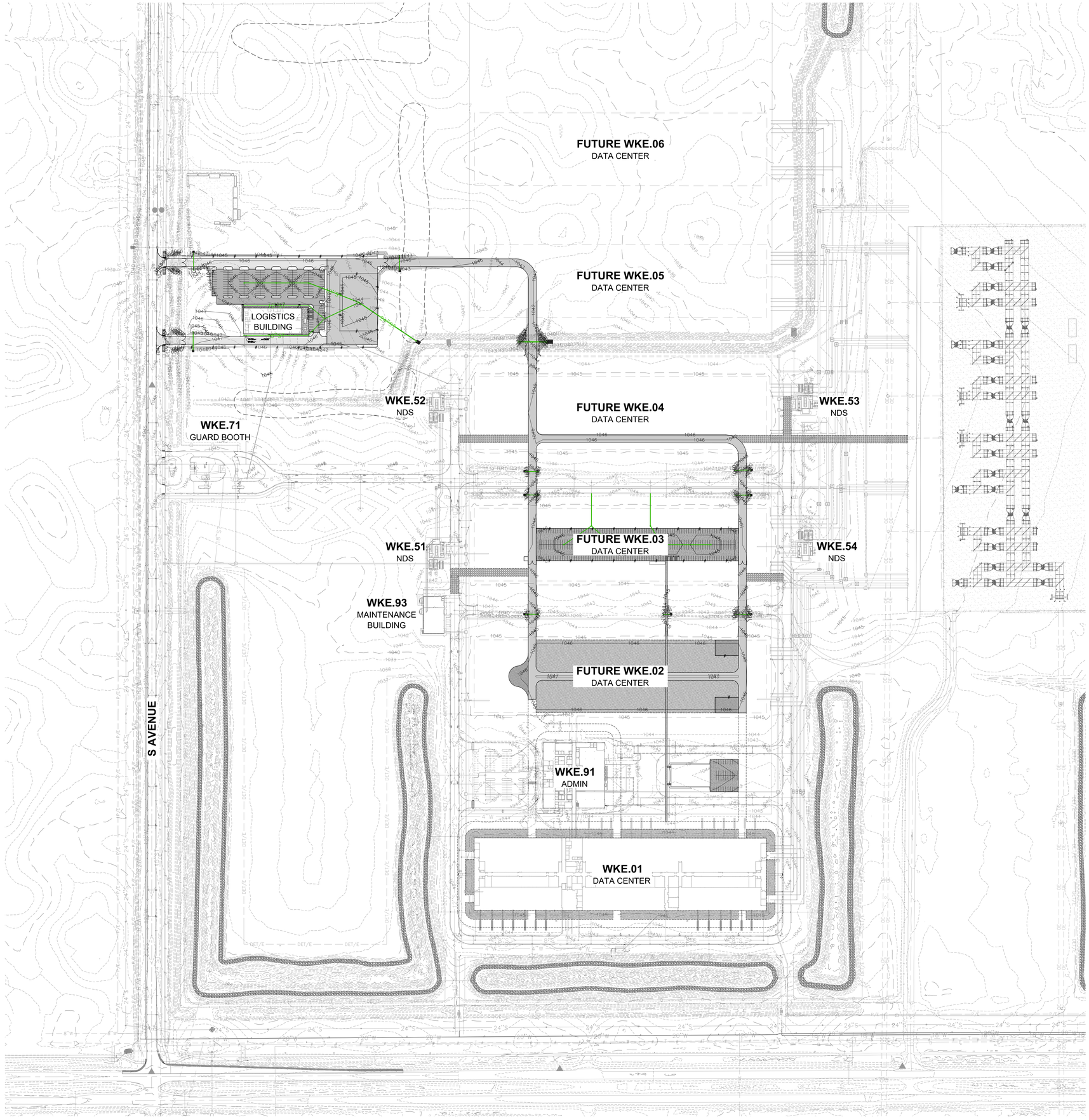
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STORM SEWER NOTES

1. FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
3. ADJUST ALL MANHOLES AND INTAKES TO FINISHED GRADES.
4. 18" MINIMUM VERTICAL CLEARANCE BETWEEN STORM SEWER AND SANITARY SEWER PIPES. 18" MINIMUM VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAIN.
5. MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SEWER LINES AND WATER MAINS.
6. IF ANY EXISTING PIPES OR STRUCTURES TO REMAIN IN PLACE ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING PIPE OR STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
7. STORM DRAINAGE PIPE WITH LESS THAN 2'-3" COVER SHALL BE CLASS IV REINFORCED CONCRETE PIPE, OR APPROVED EQUAL TO SUSTAIN H-20 LOADING.
8. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S PREFERENCE.
9. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
10. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT, UNLESS OTHERWISE SHOWN IN THE STRUCTURE DETAIL.
11. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
13. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PRIVATE DETENTION FACILITIES AND PRIVATE UTILITIES.
14. CONTRACTOR SHALL PREVENT ENTRY OF MUD, DIRT, DEBRIS AND OTHER MATERIAL INTO NEW AND EXISTING SEWER SYSTEMS. SHOULD ANY CONTAMINATION OCCUR DURING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM AT NO COST TO THE OWNER. INSTALL SILT FENCE AT ALL PERMANENT STORM SEWER INLETS.

SCALE
0' 75' 150' 300'

CORGAN

401 N. Houston Street
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PROJECT MORGAN
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RYAN J. HARDISTY
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LOGISTICS STORM PLAN OVERALL

JOB 21245.0000
DATE 4/21/2022
SHEET

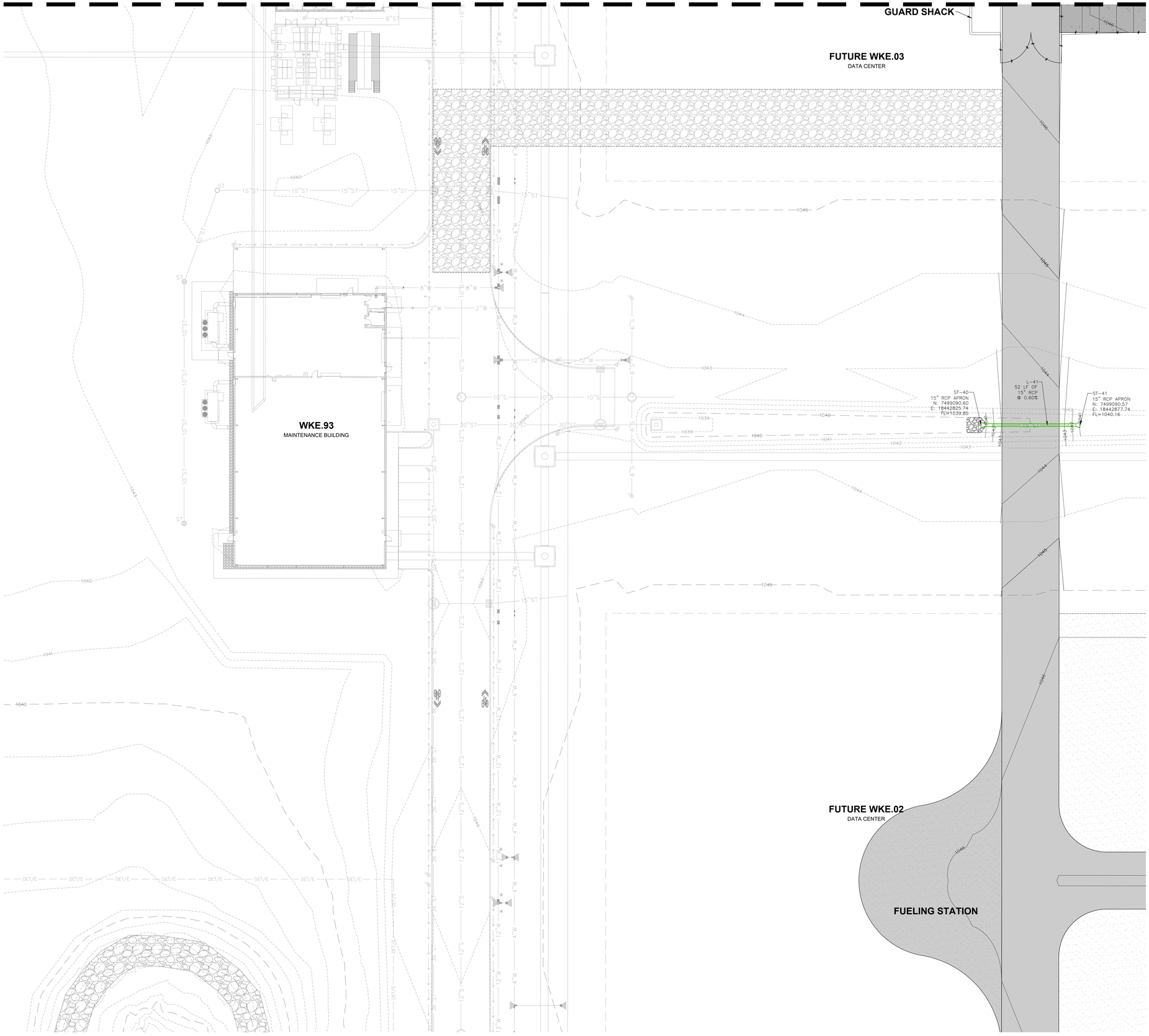
C-1300

APPLE PROJECT NO. F.21D42

4/21/2022 5:21 PM C-1300 LOGISTICS STORM PLAN OVERALL

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SEE SHEET C-1327 FOR CONTINUATION



LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
	SW-501 STORM DRAIN INTAKE
	SW-502 STORM DRAIN INTAKE
	SW-511 STORM DRAIN INTAKE
ST	SW-512 STORM DRAIN INTAKE
	SW-513 STORM DRAIN INTAKE
	STORM DRAIN APRON SECTION
	TRENCH DRAIN
	STORM DRAIN CLEANOUT
	WYE/ROOF DOWNSPOUT CONNECTION
MH	MANHOLE
INTK	INTAKE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
FL	FLOWLINE (INVERT)
TC	TOP OF CURB

NOTES

1. THE CONTRACTOR SHALL CONNECT ROOF DRAIN DOWNSPOUTS TO PROPOSED STORM DRAIN COLLECTOR LINES. SEE ARCHITECTURAL PLAN FOR LOCATIONS OF DOWNSPOUTS FOR ROOF DRAIN CONNECTIONS.
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3. THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS (BENDS, REDUCERS, WYES, CONNECTIONS, ETC.) AS NECESSARY TO CONNECT THE DRAINAGE PIPES AND STRUCTURES INTO THE SITE DRAINAGE NETWORK.
4. PIPE LENGTHS SHOWN INCLUDE APRON LENGTH.
5. WHERE THE STORM SEWER CROSSES OVER OR LESS THEN 18 INCHES BELOW THE WATER MAIN, LOCATE ONE FULL LENGTH OF SEWER PIPE WITH GASKETED JOINTS SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.
6. INLET PROTECTION/SEDIMENT CONTROL SHALL BE INSTALLED AT ALL INLETS.
7. ALL UTILITIES SHOWN ARE PRIVATE UNLESS EXPLICITLY LABELED PUBLIC.

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
3333 Lee Parkway, Suite 475
Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
233 N Water Street, 6th Floor
Milwaukee, WI 53202
414-333-6427

ISSUES

1	2022.02.01	CITY OF WAUKEE SUBMITTAL #1
2	2022.03.03	CITY OF WAUKEE SUBMITTAL #2
3	2022.04.05	CITY OF WAUKEE SUBMITTAL #3
4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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RYAN HARDISTY

PRELIMINARY NOT FOR CONSTRUCTION
PROFESSIONAL ENGINEER RYAN J. HARDISTY 20811 IOWA

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Date of issue:
04.05.2022

KEYPLAN

PLAN N

61	62	63	64	65	66	
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49	50	51	52	53	54	
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LOGISTICS STORM PLAN

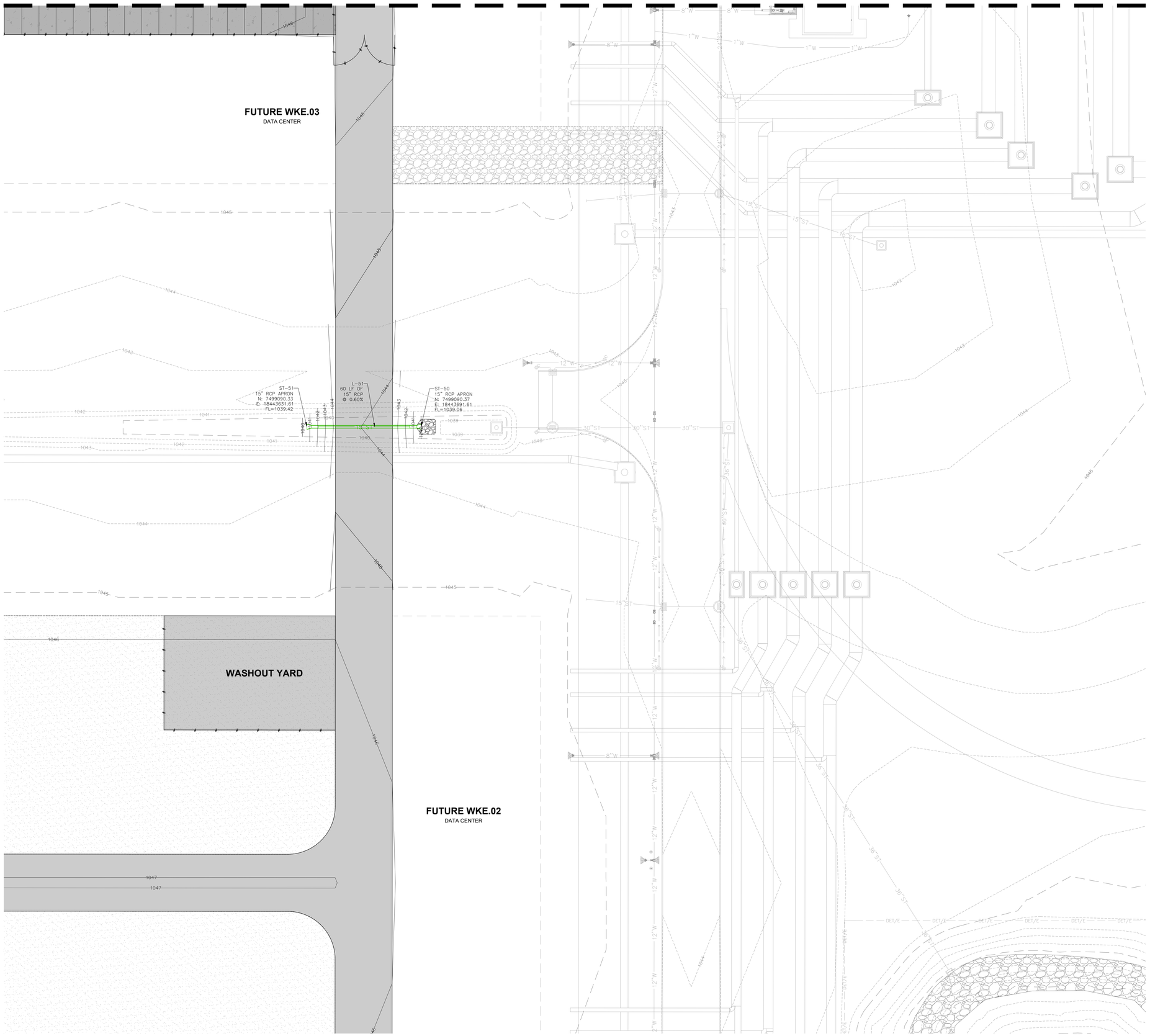
JOB 21245.0000
DATE 4/21/2022
SHEET

C-1321

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1329 FOR CONTINUATION



LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
	SW-501 STORM DRAIN INTAKE
	SW-502 STORM DRAIN INTAKE
	SW-511 STORM DRAIN INTAKE
ST	SW-512 STORM DRAIN INTAKE
	SW-513 STORM DRAIN INTAKE
	STORM DRAIN APRON SECTION
	TRENCH DRAIN
	STORM DRAIN CLEANOUT
	WYE/ROOF DOWNSPOUT CONNECTION
MH	MANHOLE
INTK	INTAKE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
FL	FLOWLINE (INVERT)
TC	TOP OF CURB

NOTES

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SCALE
0' 10' 20' 40'

CORGAN

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LOGISTICS STORM PLAN

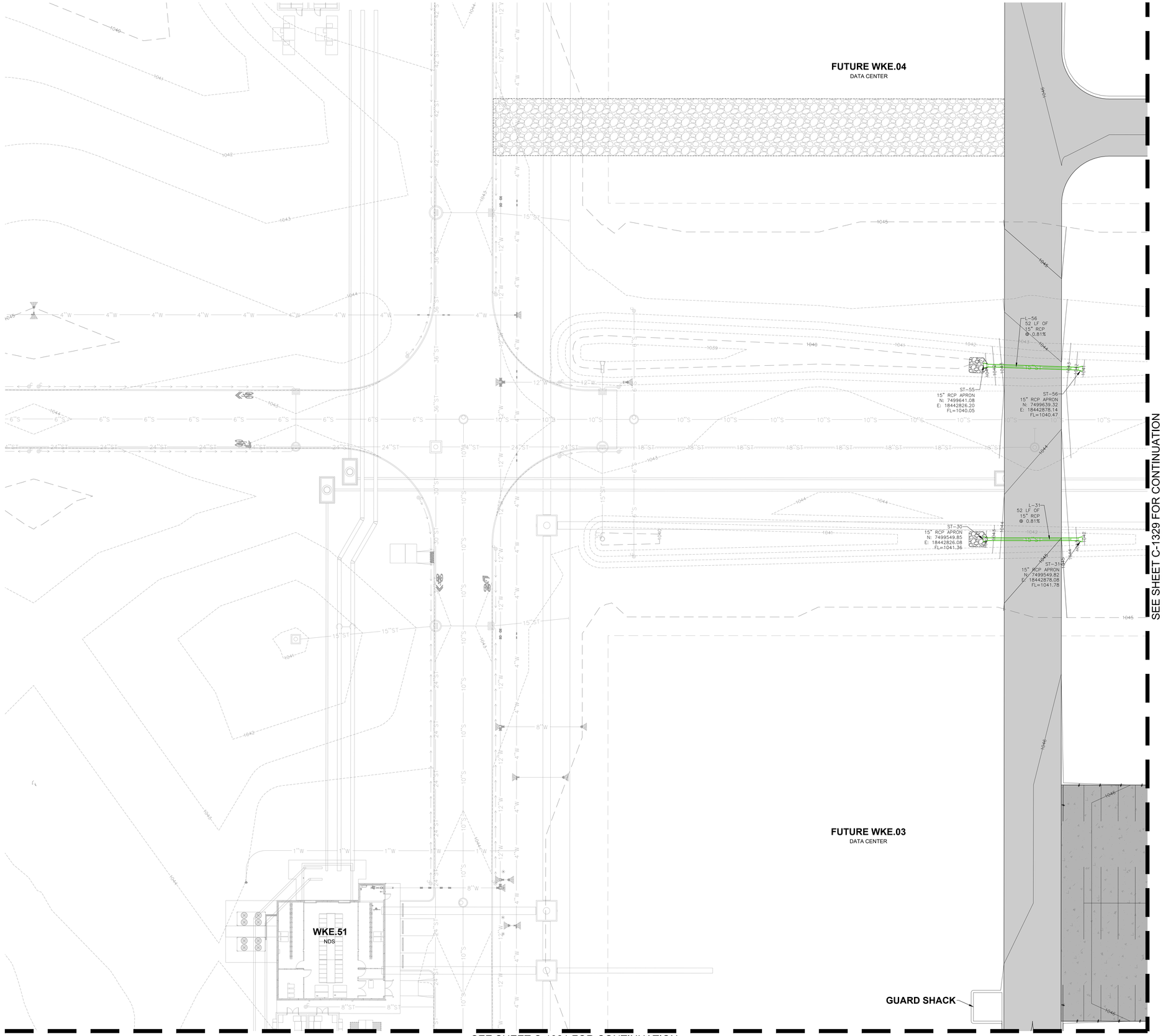
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C-1323

4/21/2022 5:23 PM C-1323 LOGISTICS STORM PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- DETENTION OVERFLOW PATH
- 15"ST — STORM DRAIN PIPE WITH SIZE
- 6" SUBDRAIN
- SW-401 STORM DRAIN MANHOLE
- SW-403 STORM DRAIN MANHOLE
- SW-501 STORM DRAIN INTAKE
- SW-502 STORM DRAIN INTAKE
- SW-511 STORM DRAIN INTAKE
- SW-512 STORM DRAIN INTAKE
- SW-513 STORM DRAIN INTAKE
- STORM DRAIN APRON SECTION
- TRENCH DRAIN
- STORM DRAIN CLEANOUT
- WYE/ROOF DOWNSPOUT CONNECTION

MH	MANHOLE
INTK	INTAKE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
FL	FLOWLINE (INVERT)
TC	TOP OF CURB

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REVISIONS

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LICENSED PROFESSIONAL ENGINEER
RYAN J. HARDISTY
20811
IOWA

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LOGISTICS STORM PLAN

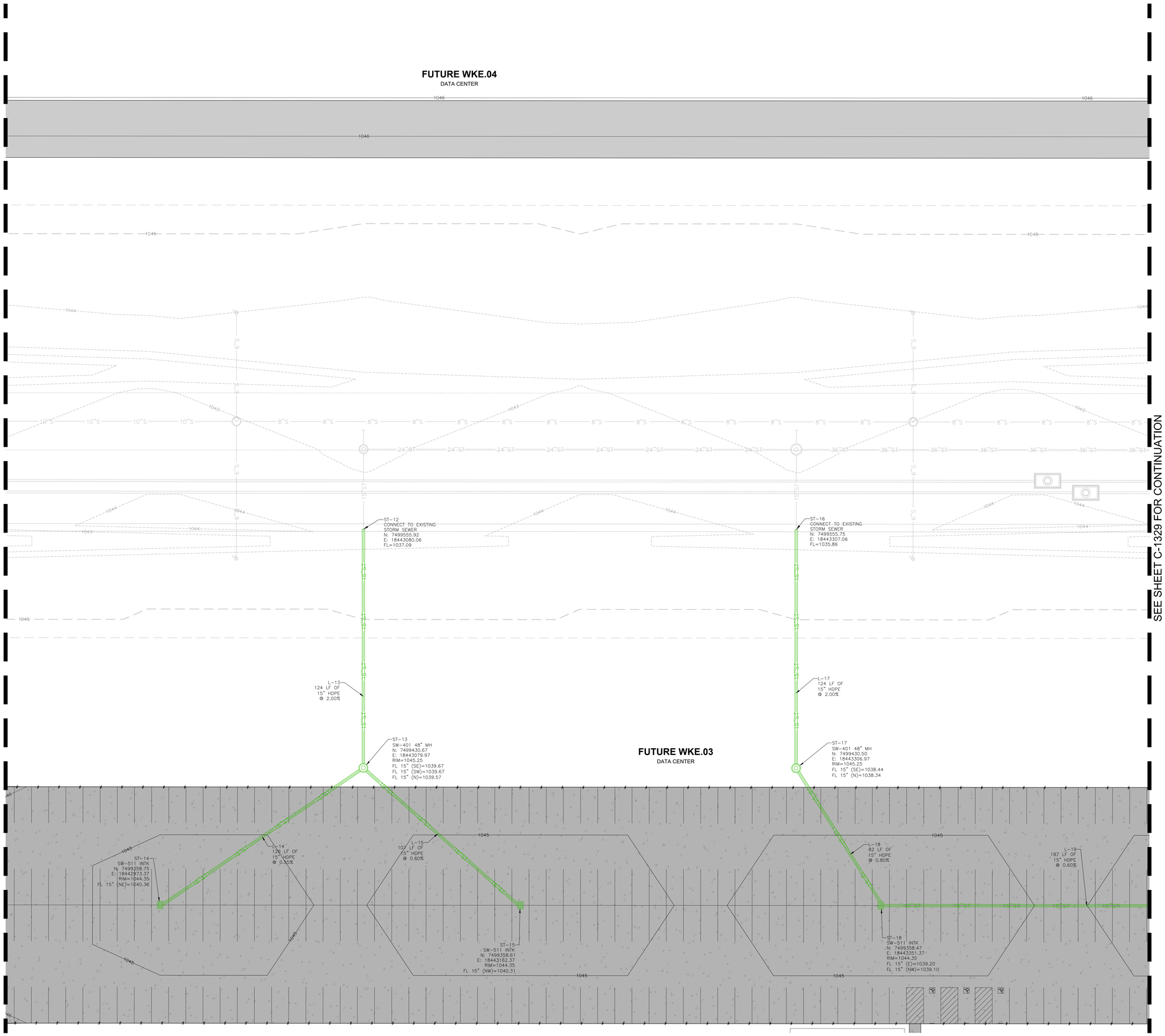
JOB 21245.0000
DATE 4/21/2022
SHEET

C-1327

4/21/2022 5:23 PM C-1327 LOGISTICS STORM PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
	SW-501 STORM DRAIN INTAKE
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FL	FLOWLINE (INVERT)
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Dallas, TX 75219
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4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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STATE OF IOWA — REGISTERED PROFESSIONAL ENGINEER — RYAN J. HARDISTY — 20811 — PRELIMINARY NOT FOR CONSTRUCTION

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04.05.2022

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PLAN N

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LOGISTICS STORM PLAN

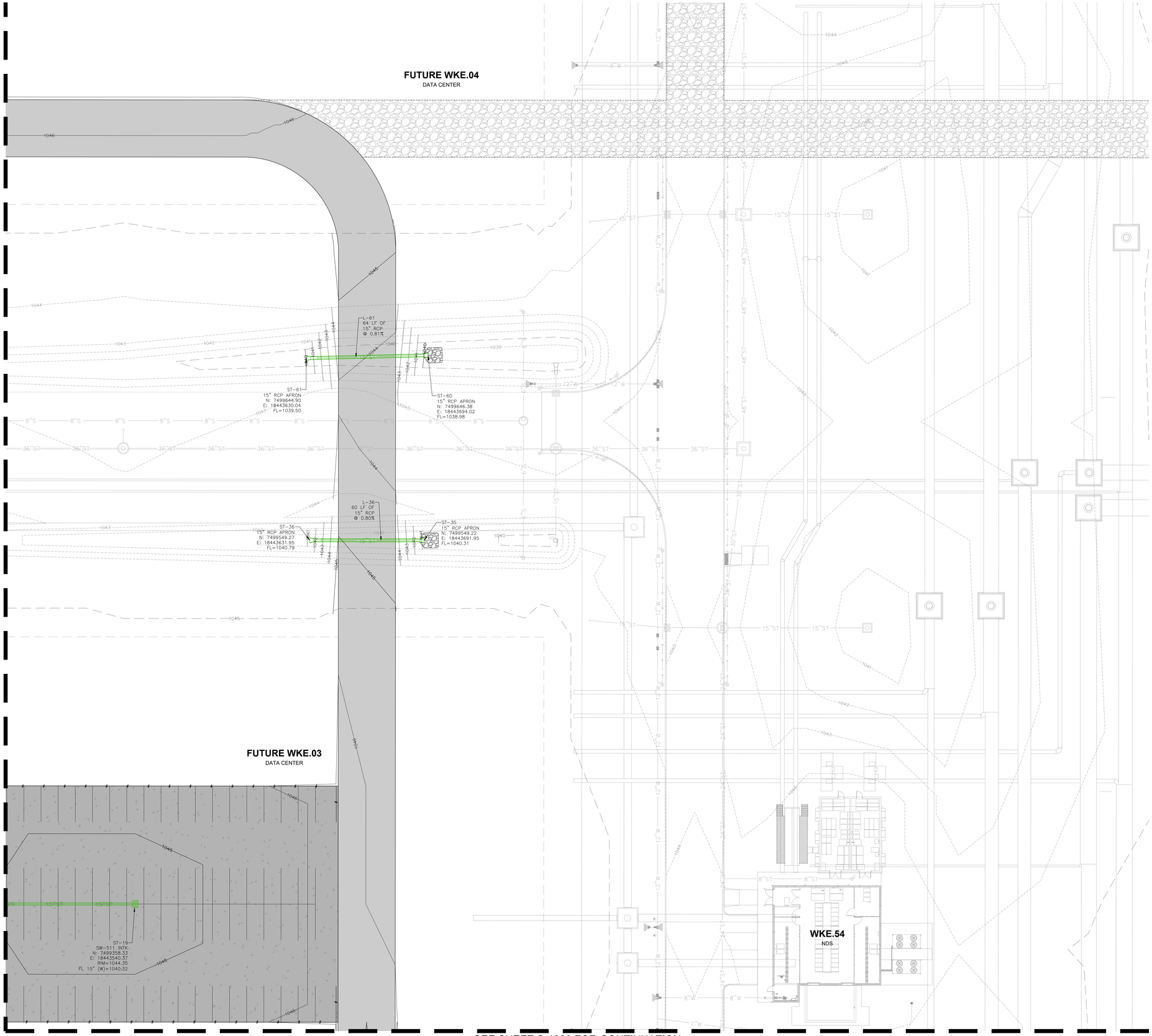
JOB 21245.0000
DATE 4/21/2022
SHEET

C-1328

4/21/2022 5:24 PM C-1328 LOGISTICS STORM PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
	SW-501 STORM DRAIN INTAKE
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ST	SW-512 STORM DRAIN INTAKE
	SW-513 STORM DRAIN INTAKE
	STORM DRAIN APRON SECTION
	TRENCH DRAIN
	STORM DRAIN CLEANOUT
	WYE/ROOF DOWNSPOUT CONNECTION
MH	MANHOLE
INTK	INTAKE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
FL	FLOWLINE (INVERT)
TC	TOP OF CURB

NOTES

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SCALE
0' 10' 20' 40'

CORGAN

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LOGISTICS STORM PLAN

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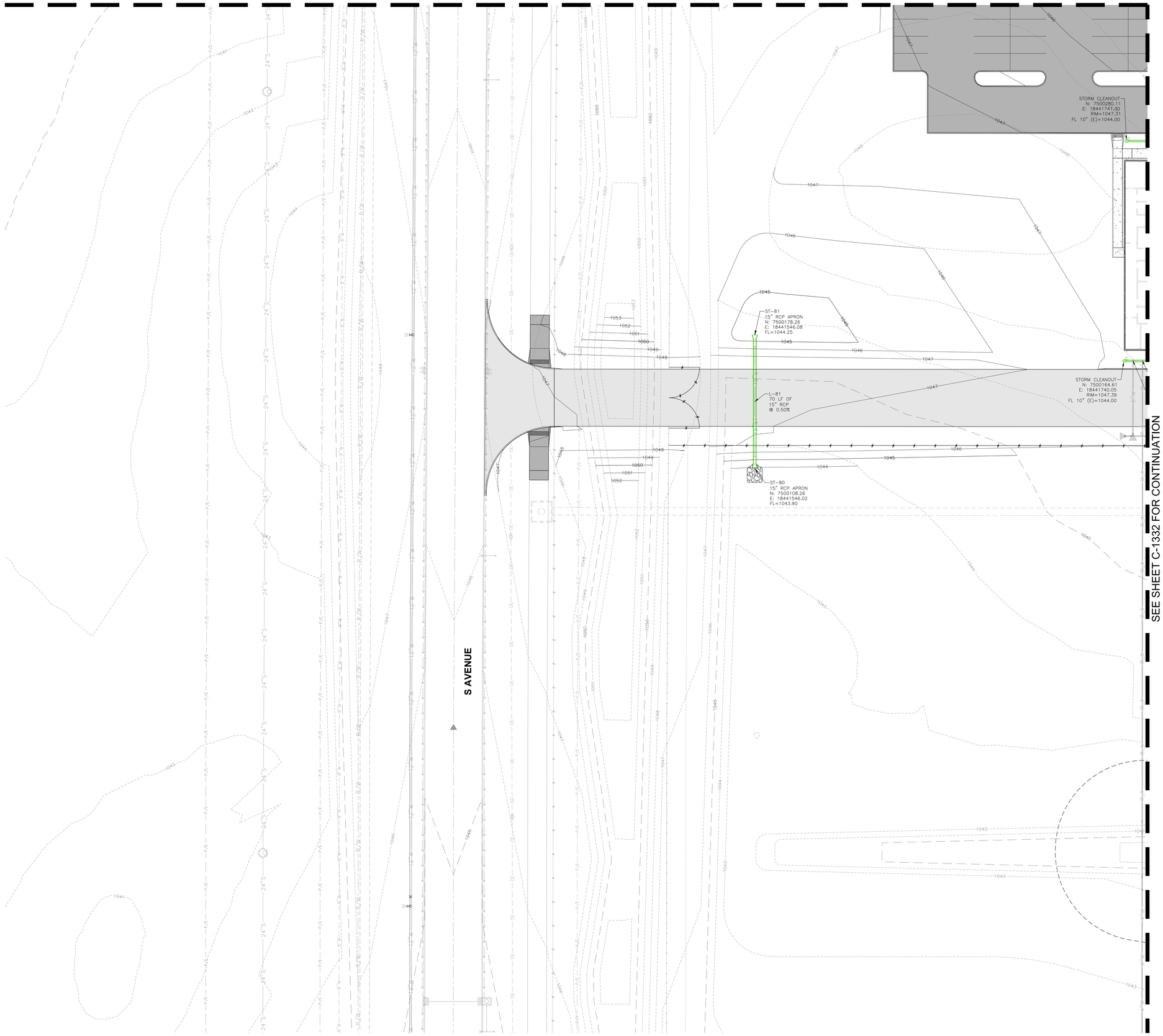
C-1329

4/21/2022 5:25 PM C-1329 LOGISTICS STORM PLAN

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1337 FOR CONTINUATION



SEE SHEET C-1332 FOR CONTINUATION

LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
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SCALE
0' 10' 20' 40'

4/21/2022 5:25 PM C-1331 LOGISTICS STORM PLAN

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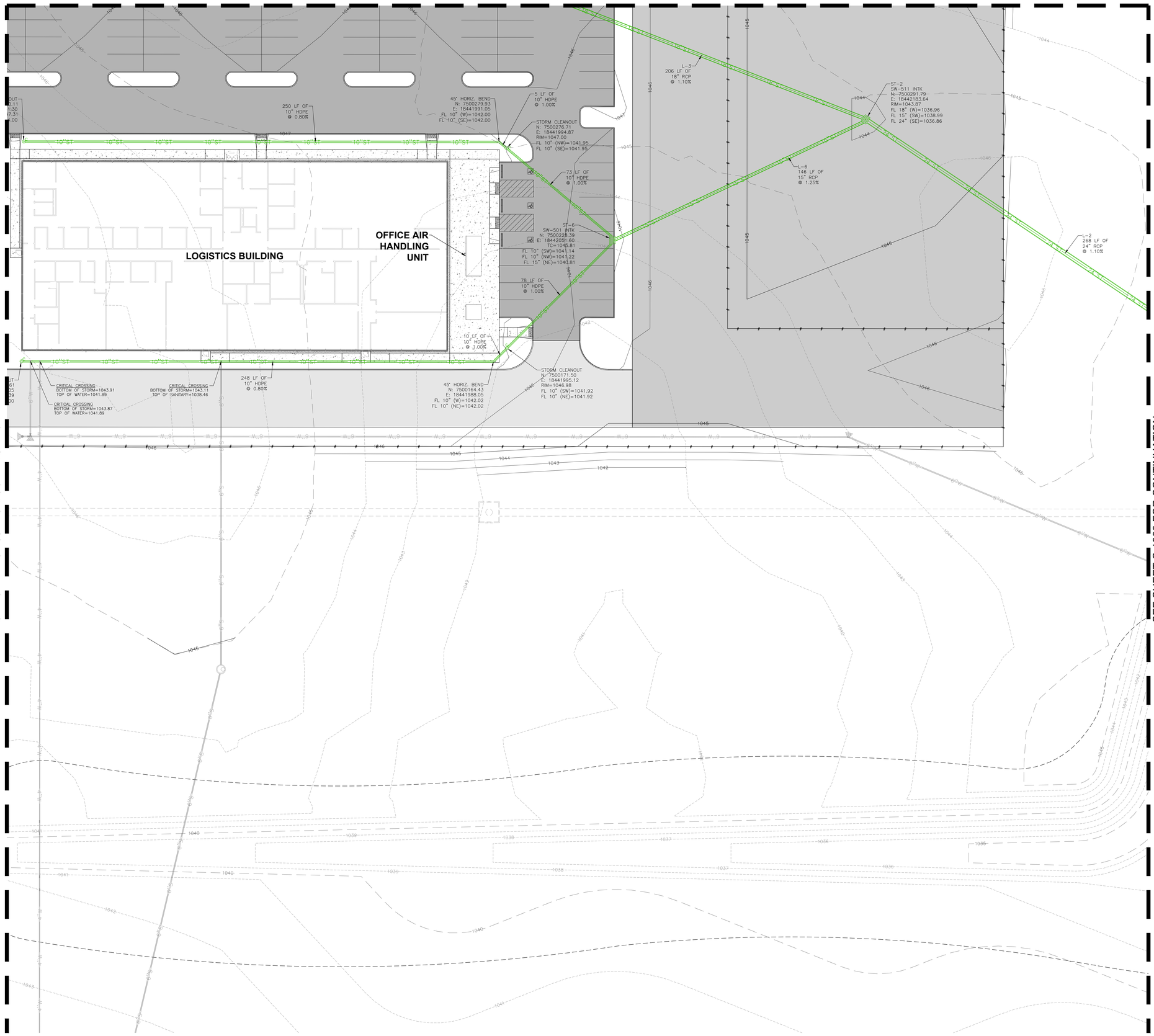
LOGISTICS STORM PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

C-1331

APPLE PROJECT NO. F.21D42

SEE SHEET C-1338 FOR CONTINUATION



SEE SHEET C-1331 FOR CONTINUATION

SEE SHEET C-1333 FOR CONTINUATION

LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
	SW-501 STORM DRAIN INTAKE
	SW-502 STORM DRAIN INTAKE
	SW-511 STORM DRAIN INTAKE
ST	SW-512 STORM DRAIN INTAKE
	SW-513 STORM DRAIN INTAKE
	STORM DRAIN APRON SECTION
	TRENCH DRAIN
	STORM DRAIN CLEANOUT
	WYE/ROOF DOWNSPOUT CONNECTION
MH	MANHOLE
INTK	INTAKE
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
FL	FLOWLINE (INVERT)
TC	TOP OF CURB

NOTES

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6. INLET PROTECTION/SEDIMENT CONTROL SHALL BE INSTALLED AT ALL INLETS.
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SCALE 0 10' 20' 40'

4/21/2022 5:26 PM C-1332 LOGISTICS STORM PLAN

CORGAN

401 N. Houston Street
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T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
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Civil Design Advantage
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4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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LICENSED PROFESSIONAL ENGINEER RYAN J. HARDISTY 20811 IOWA

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Date of issue:
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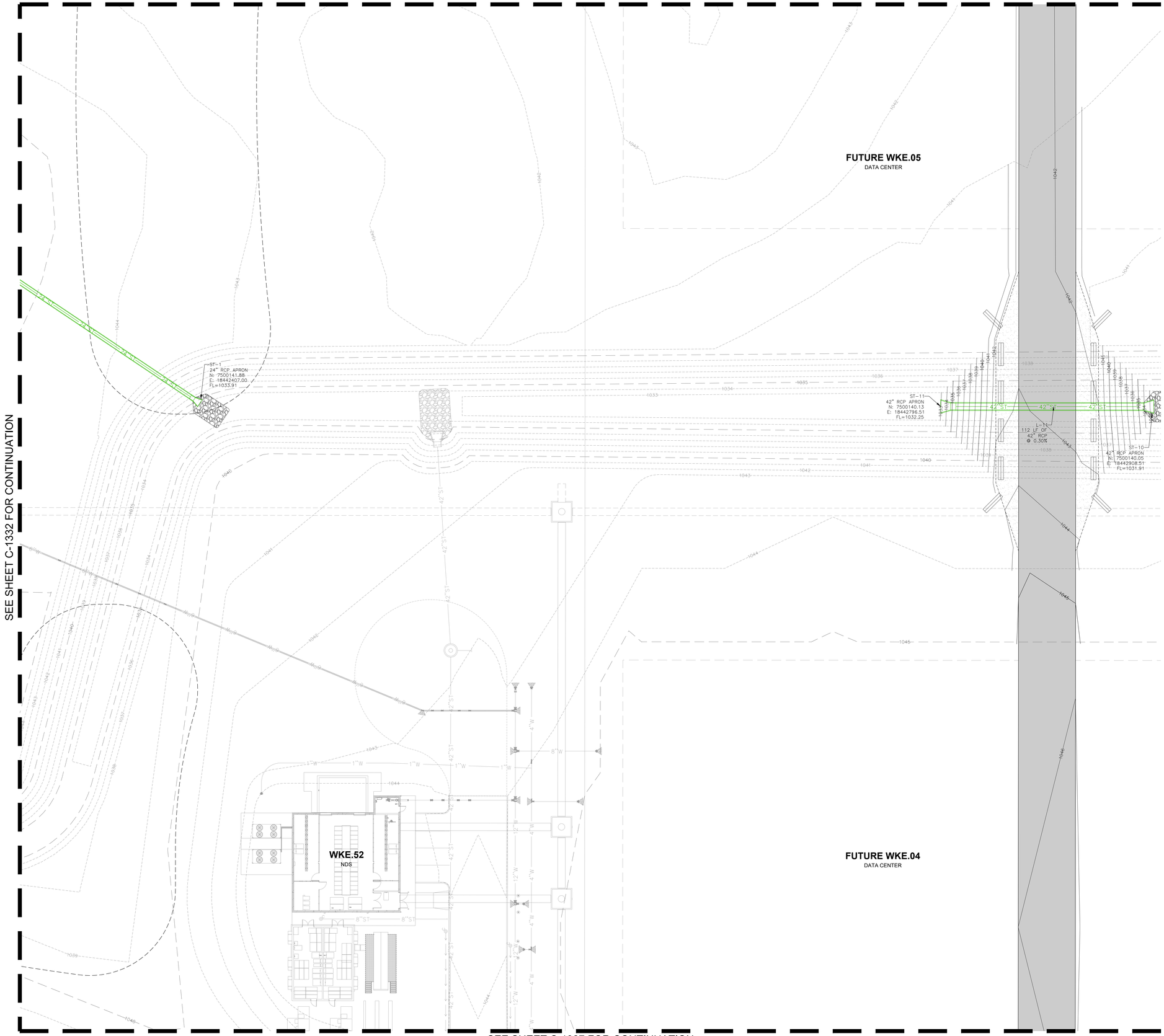
C-1332

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APPLE PROJECT NO. F.21D42

SEE SHEET C-1339 FOR CONTINUATION

SEE SHEET C-1332 FOR CONTINUATION



SEE SHEET C-1327 FOR CONTINUATION

LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
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FL	FLOWLINE (INVERT)
TC	TOP OF CURB

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SCALE
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LOGISTICS STORM PLAN

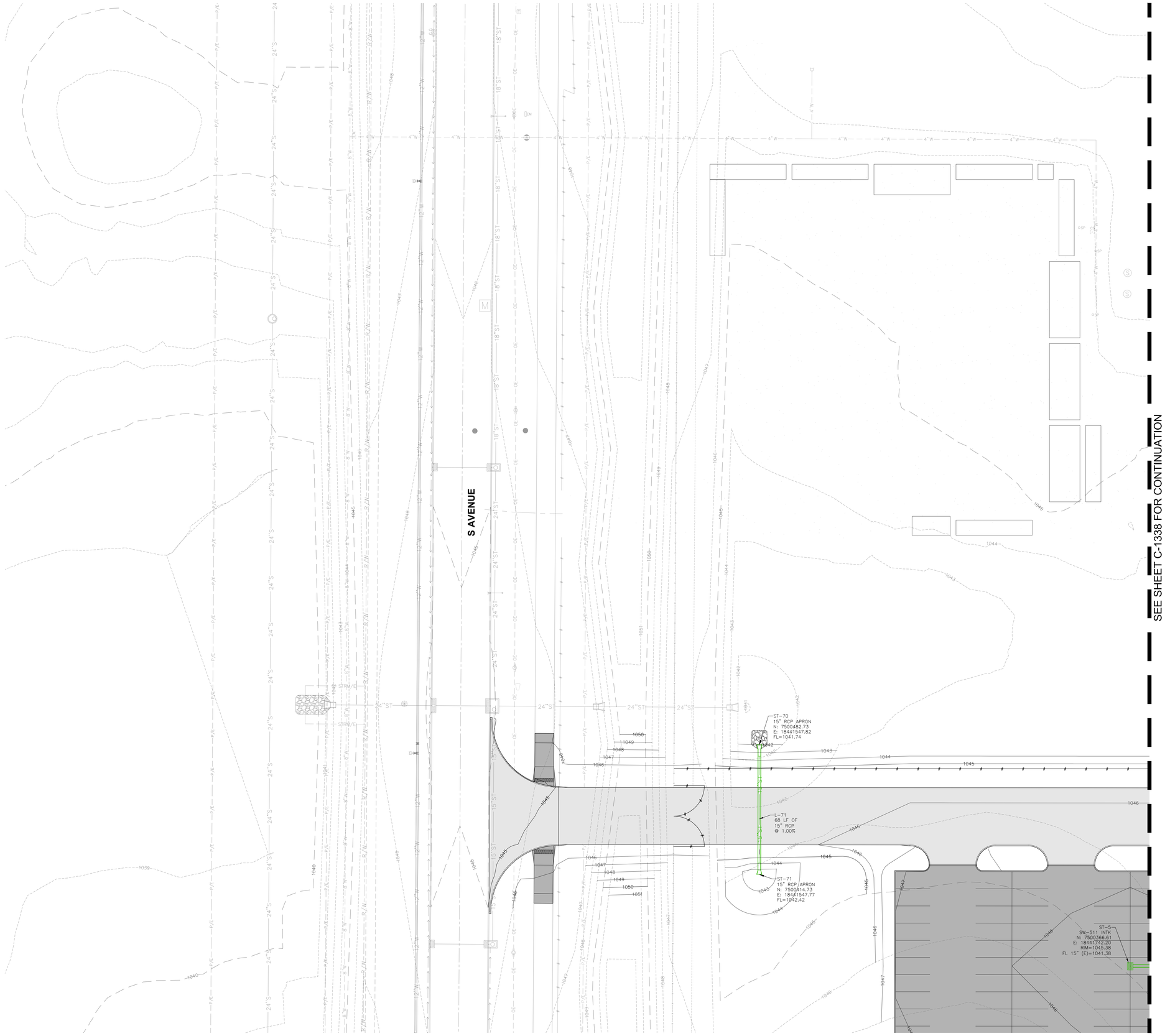
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APPLE PROJECT NO. F.21D42



LEGEND

	PROPERTY LINE
	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
	SW-401 STORM DRAIN MANHOLE
	SW-403 STORM DRAIN MANHOLE
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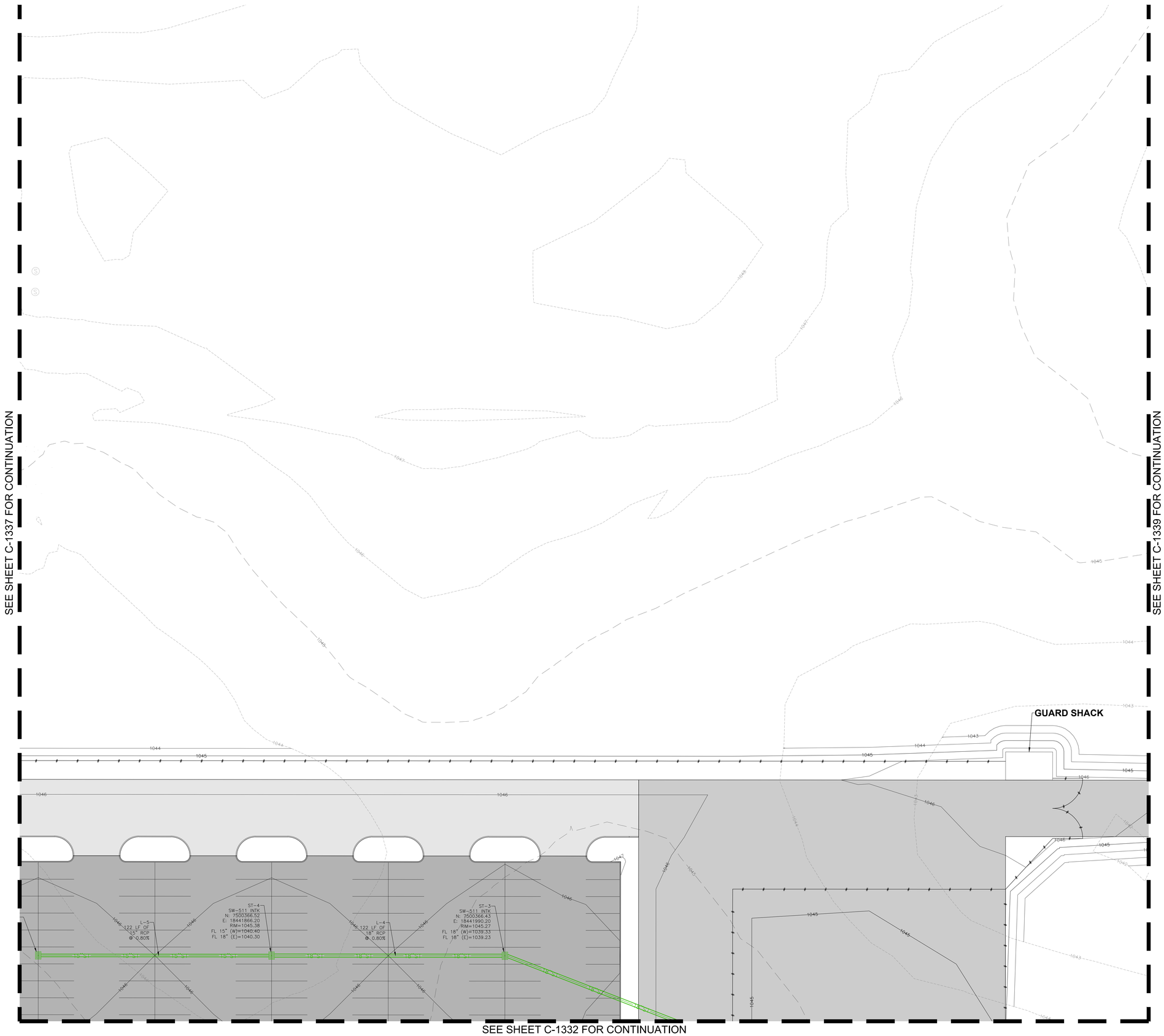
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APPLE PROJECT NO. F.21D42



LEGEND

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	LOT LINE
	DETENTION OVERFLOW PATH
15"ST	STORM DRAIN PIPE WITH SIZE
	6" SUBDRAIN
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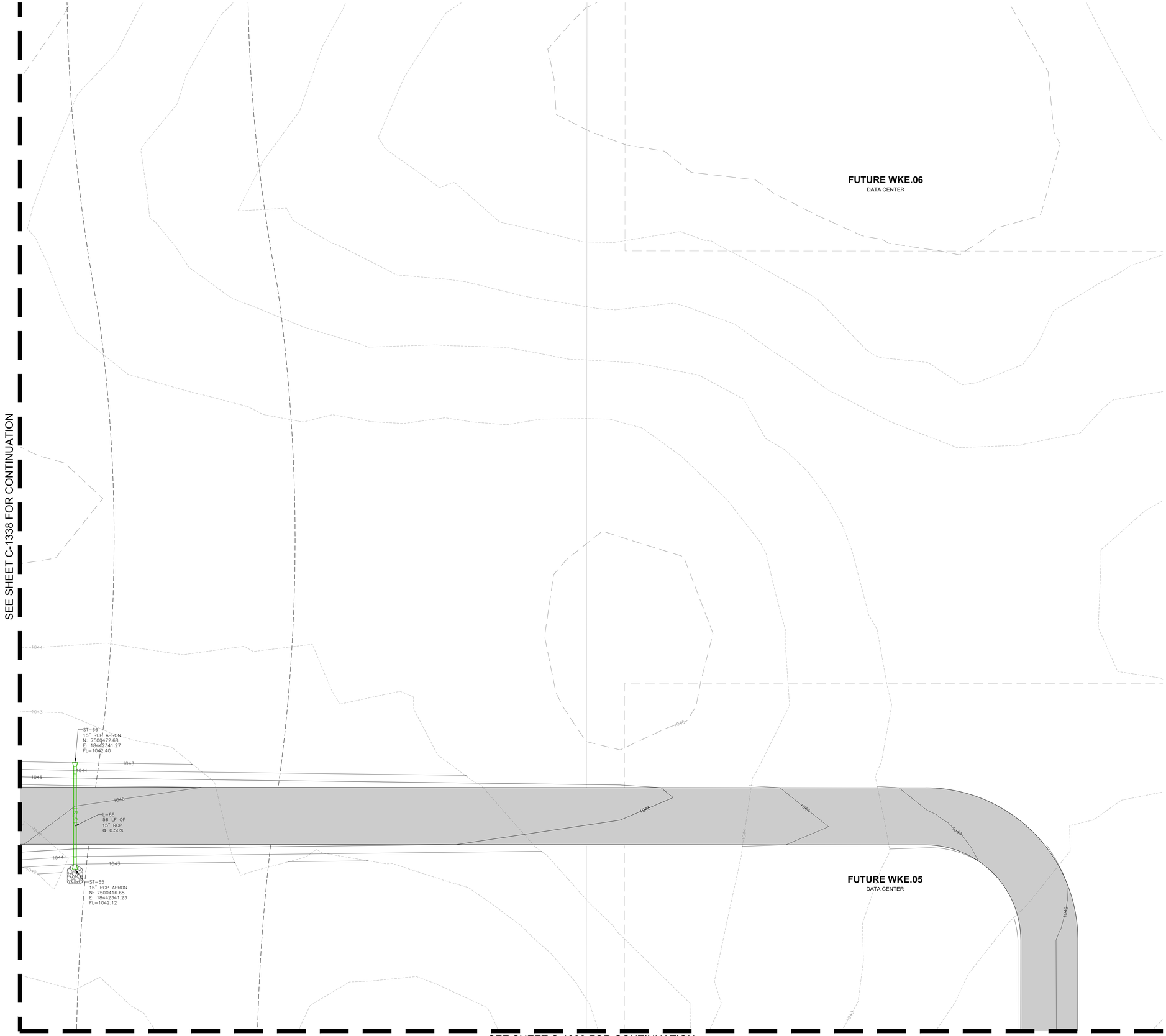
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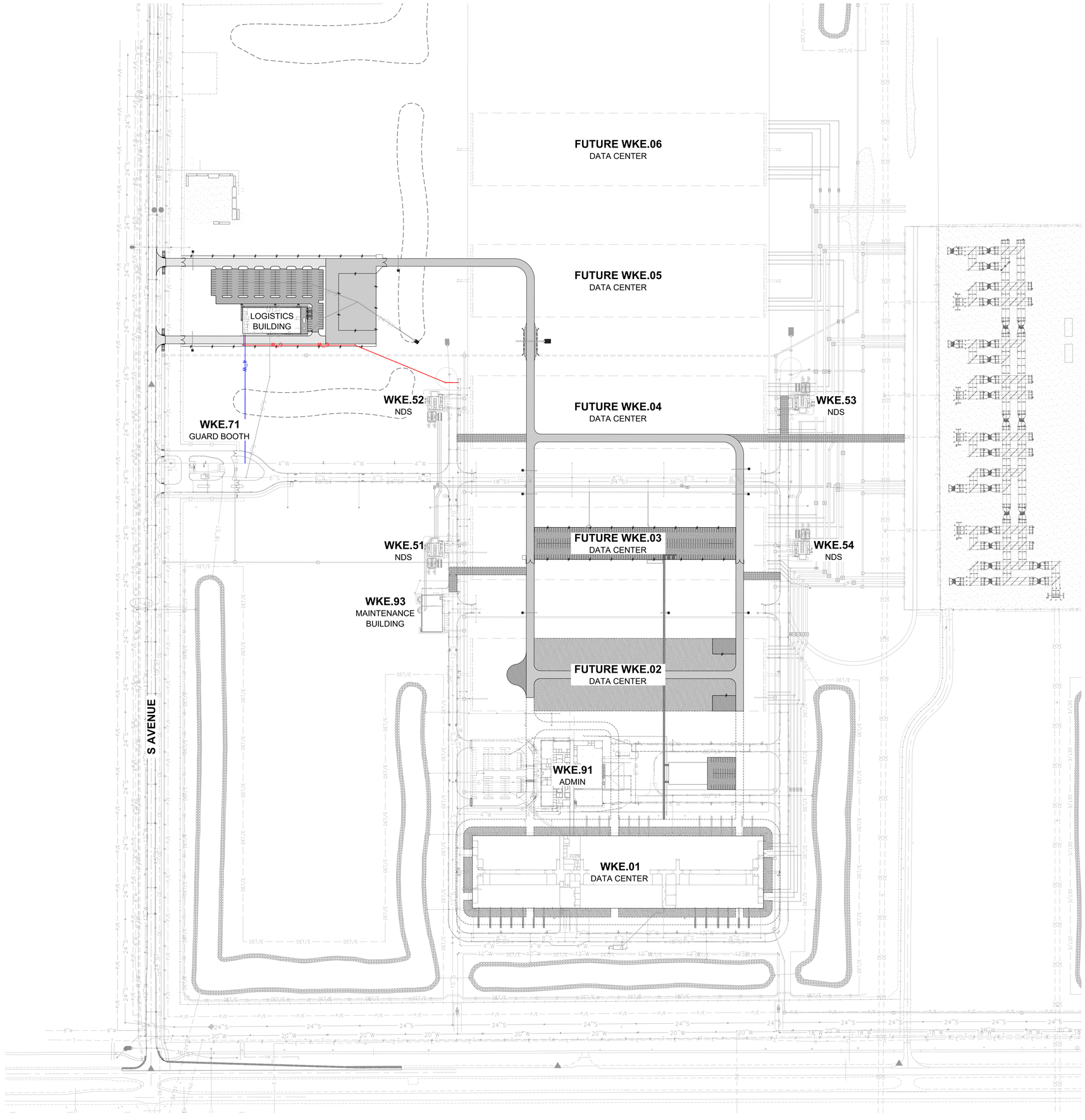
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APPLE PROJECT NO. F.21D42



WATER NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR UTILITY SERVICE SIZES AND EXACT LOCATIONS. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND FIBER SERVICE CONSTRUCTION DETAILS.
2. FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
3. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
4. MAINTAIN 6.0 FEET OF COVER OVERALL WATER MAIN PIPE TYPICAL. MINIMUM COVER OVER WATER MAIN IS 5.5 FEET.
5. ALL UTILITIES SHALL BE STUBBED TO 5 FEET FROM BUILDINGS. REFER TO MEP PLANS FOR DESIGN FROM 5 FEET OUTSIDE OF BUILDING FACE.
6. ADJUST ALL VALVES AND HYDRANTS TO FINISHED GRADES.
7. MAINTAIN A MINIMUM 18" VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAIN.
8. MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SEWER LINES AND WATER MAINS.
9. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
11. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PRIVATE UTILITIES.

CORGAN

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LOGISTICS WATER PLAN OVERALL

JOB 21245.0000
DATE 4/21/2022
SHEET

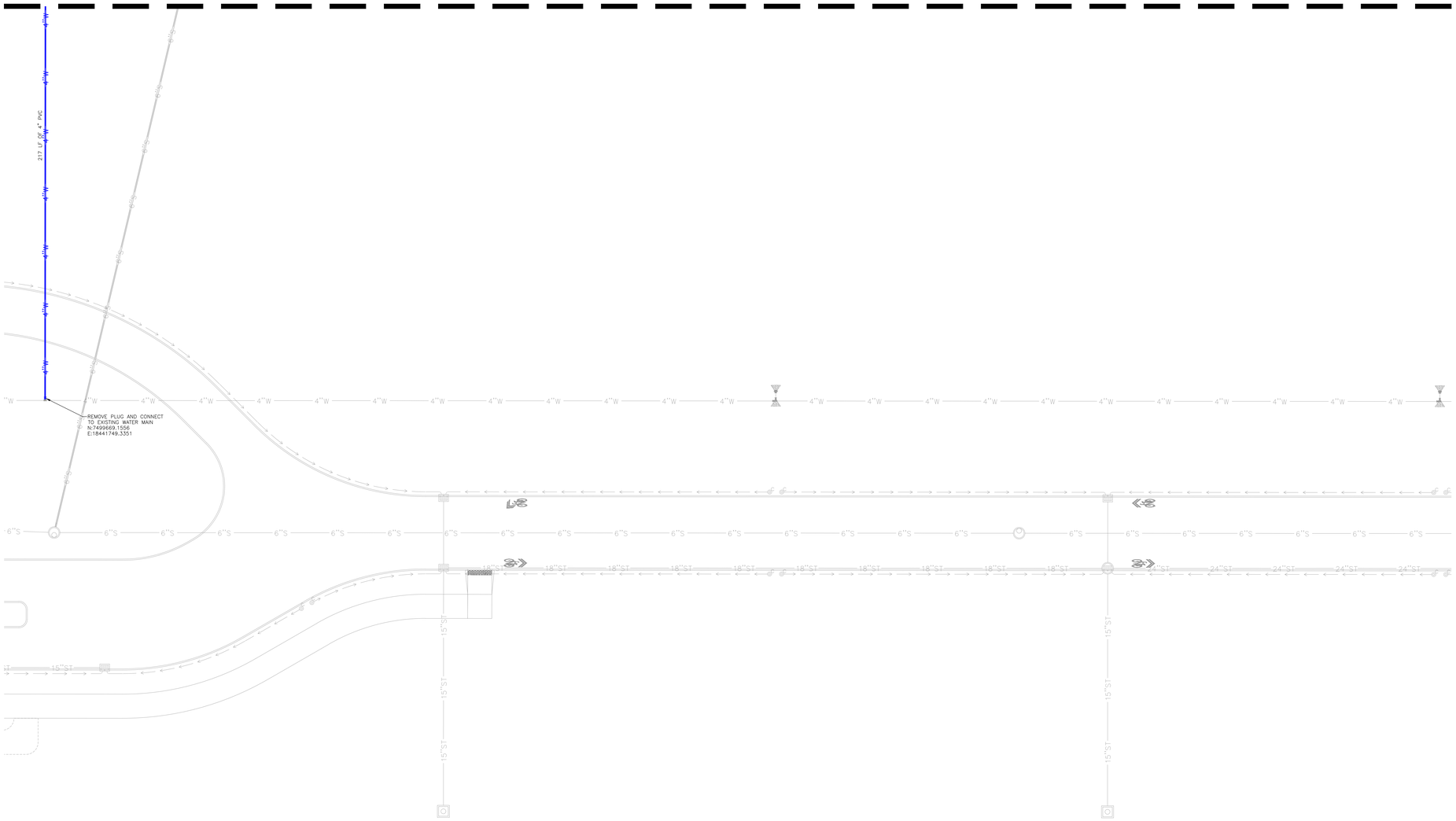
C-1600

APPLE PROJECT NO. F.21D42

4/21/2022 5:30 PM C-1600 LOGISTICS WATER PLAN OVERALL

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SEE SHEET C-1632 FOR CONTINUATION

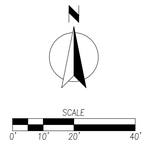


LEGEND

	PROPERTY LINE
	LOT LINE
6"W	FIRE PROTECTION MAIN PIPE WITH SIZE
	FIRE PROTECTION FIRE HYDRANT
GV	FIRE PROTECTION GATE VALVE
	FIRE PROTECTION TEE
	FIRE PROTECTION BEND
4"W	DOMESTIC WATER MAIN PIPE WITH SIZE
	DOMESTIC WATER POST HYDRANT
GV	DOMESTIC WATER GATE VALVE
	DOMESTIC WATER TEE
	DOMESTIC WATER BEND
	DOMESTIC WATER CURB STOP
	THRUST BLOCK
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE
CP	COPPER PIPE
FGH	FINISHED GRADE AT HYDRANT

NOTES

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kW Mission Critical
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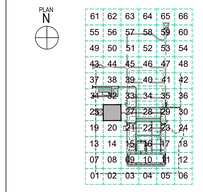
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KEYPLAN



LOGISTICS WATER PLAN

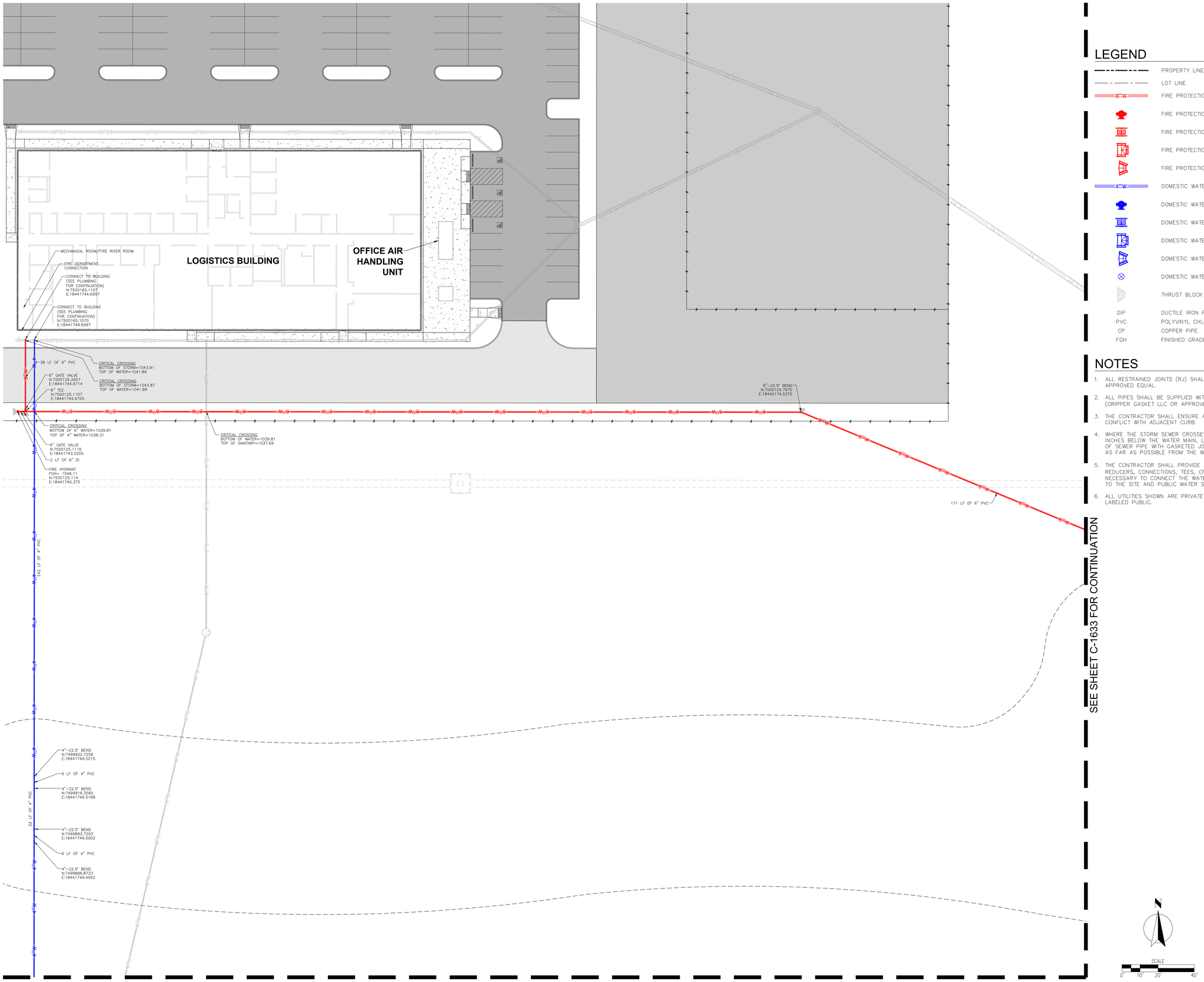
JOB 21245.0000
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SHEET

C-1626

4/21/2022 5:31 PM C-1626 LOGISTICS WATER PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- FIRE PROTECTION MAIN PIPE WITH SIZE
- FIRE PROTECTION FIRE HYDRANT
- FIRE PROTECTION GATE VALVE
- FIRE PROTECTION TEE
- FIRE PROTECTION BEND
- DOMESTIC WATER MAIN PIPE WITH SIZE
- DOMESTIC WATER POST HYDRANT
- DOMESTIC WATER GATE VALVE
- DOMESTIC WATER TEE
- DOMESTIC WATER BEND
- DOMESTIC WATER CURB STOP
- THRUST BLOCK
- DIP DUCTILE IRON PIPE
- PVC POLYVINYL CHLORIDE
- CP COPPER PIPE
- FGH FINISHED GRADE AT HYDRANT

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RYAN HARDISTY

PROFESSIONAL ENGINEER RYAN J. HARDISTY 20811 IOWA

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Date of issue:
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KEYPLAN

PLAN N

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LOGISTICS WATER PLAN

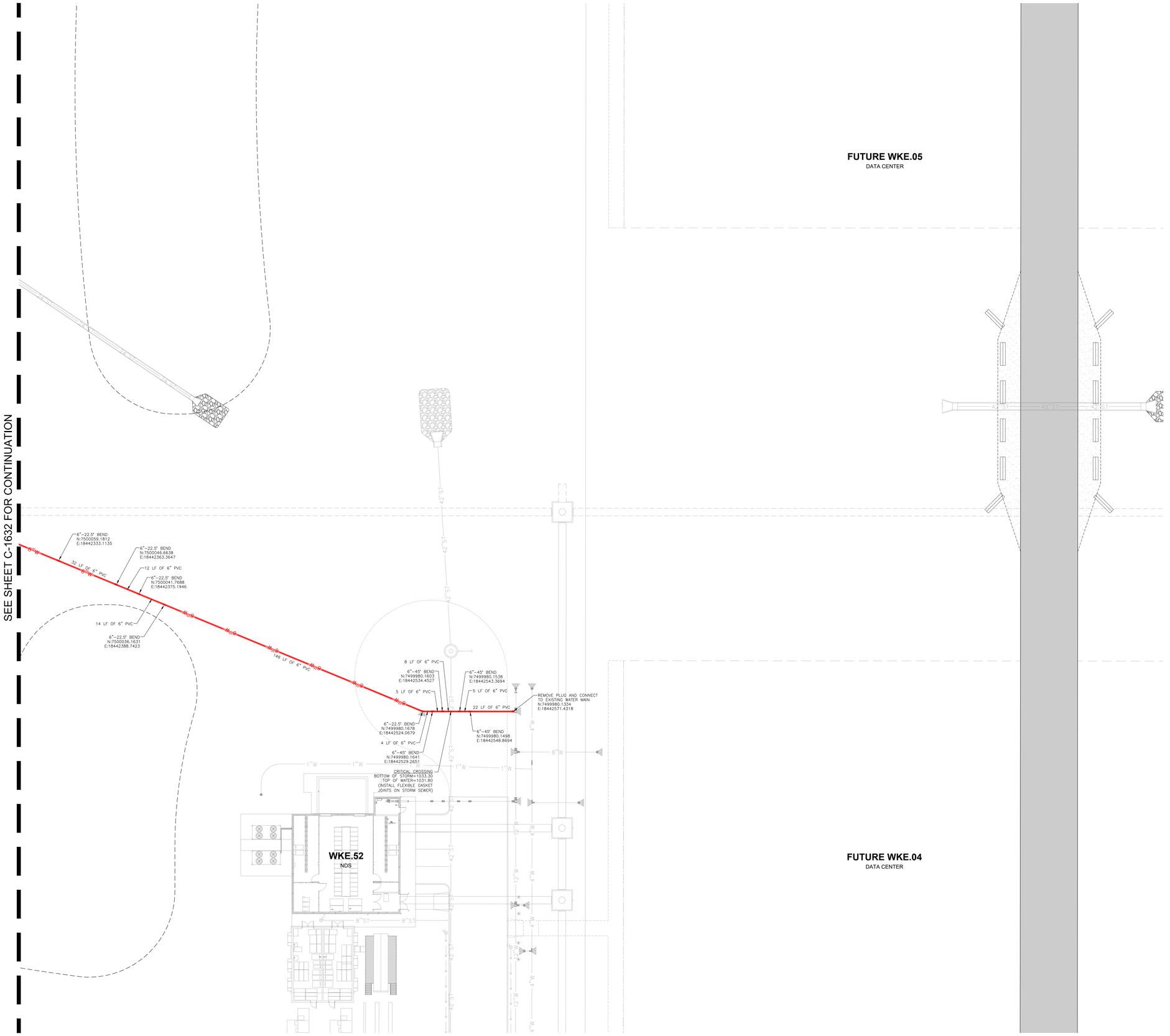
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SHEET

C-1632

4/21/2022 5:32 PM C-1632 LOGISTICS WATER PLAN

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APPLE PROJECT NO. F.21D42



LEGEND

- PROPERTY LINE
- LOT LINE
- FIRE PROTECTION MAIN PIPE WITH SIZE
- FIRE PROTECTION FIRE HYDRANT
- FIRE PROTECTION GATE VALVE
- FIRE PROTECTION TEE
- FIRE PROTECTION BEND
- DOMESTIC WATER MAIN PIPE WITH SIZE
- DOMESTIC WATER POST HYDRANT
- DOMESTIC WATER GATE VALVE
- DOMESTIC WATER TEE
- DOMESTIC WATER BEND
- DOMESTIC WATER CURB STOP
- THRUST BLOCK

DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE
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SCALE
0' 10' 20' 40'

4/21/2022 5:32 PM C-1633 LOGISTICS WATER PLAN

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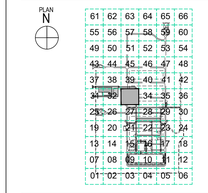
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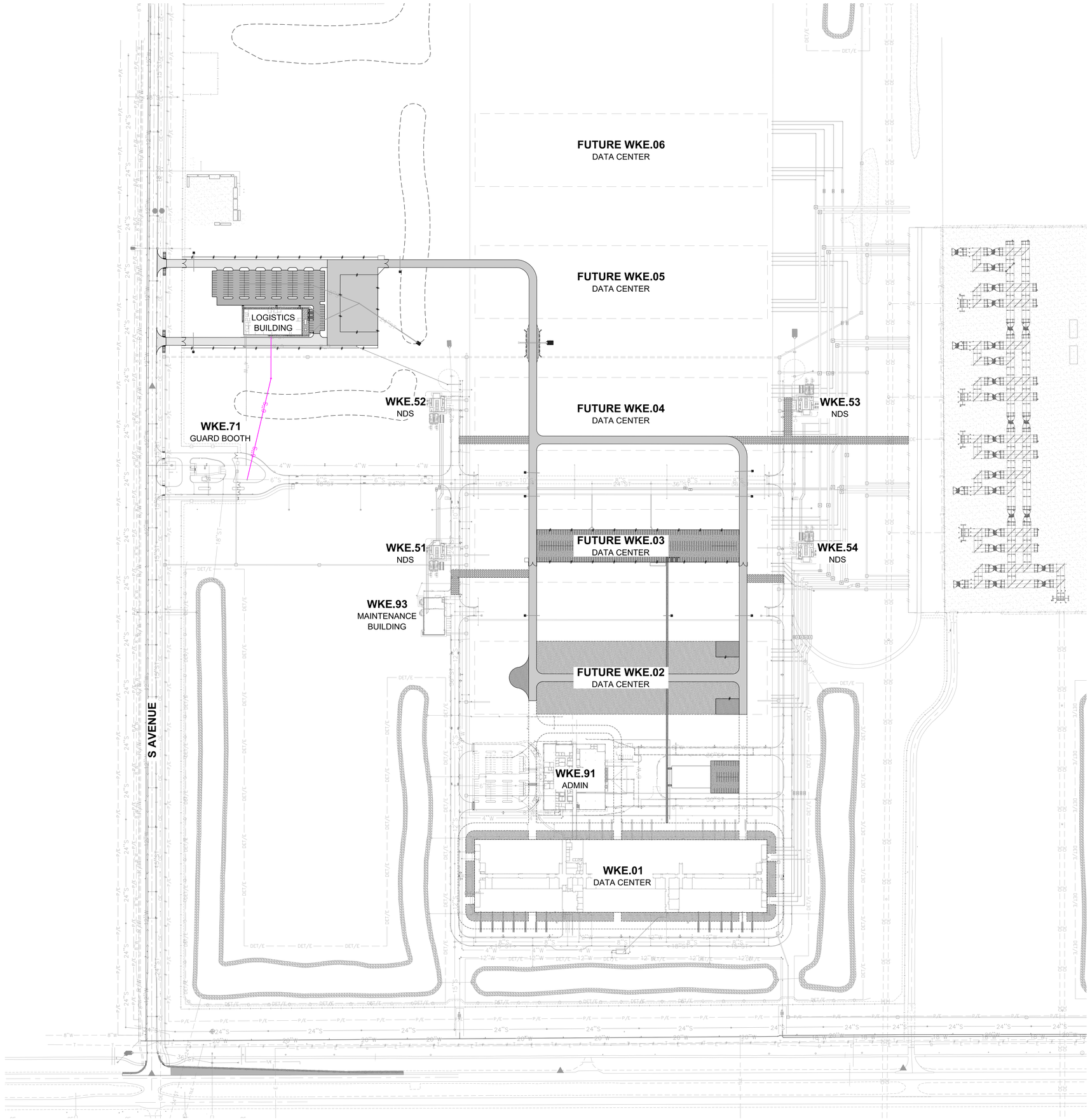


LOGISTICS WATER PLAN

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DATE 4/21/2022
SHEET

C-1633

APPLE PROJECT NO. F.21D42



SANITARY SEWER NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR UTILITY SERVICE SIZES AND EXACT LOCATIONS. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND FIBER SERVICE CONSTRUCTION DETAILS.
2. FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
3. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
4. ALL UTILITIES SHALL BE STUBBED TO 5 FEET FROM BUILDINGS. REFER TO MEP PLANS FOR DESIGN FROM 5 FEET OUTSIDE OF BUILDING FACE.
5. ADJUST ALL MANHOLES AND INTAKES TO FINISHED GRADES.
6. 18" MINIMUM VERTICAL CLEARANCE BETWEEN STORM SEWER AND SANITARY SEWER PIPES. 18" MINIMUM VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAIN.
7. MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SEWER LINES AND WATER MAINS.
8. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 800-292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
10. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PRIVATE UTILITIES.
11. CONTRACTOR SHALL PREVENT ENTRY OF MUD, DIRT, DEBRIS AND OTHER MATERIAL INTO NEW AND EXISTING SEWER SYSTEMS. SHOULD ANY CONTAMINATION OCCUR DURING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN THE SEWER SYSTEM AT NO COST TO THE OWNER. INSTALL SILT FENCE AT ALL PERMANENT STORM SEWER INLETS.

CORGAN

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LOGISTICS SANITARY PLAN OVERALL

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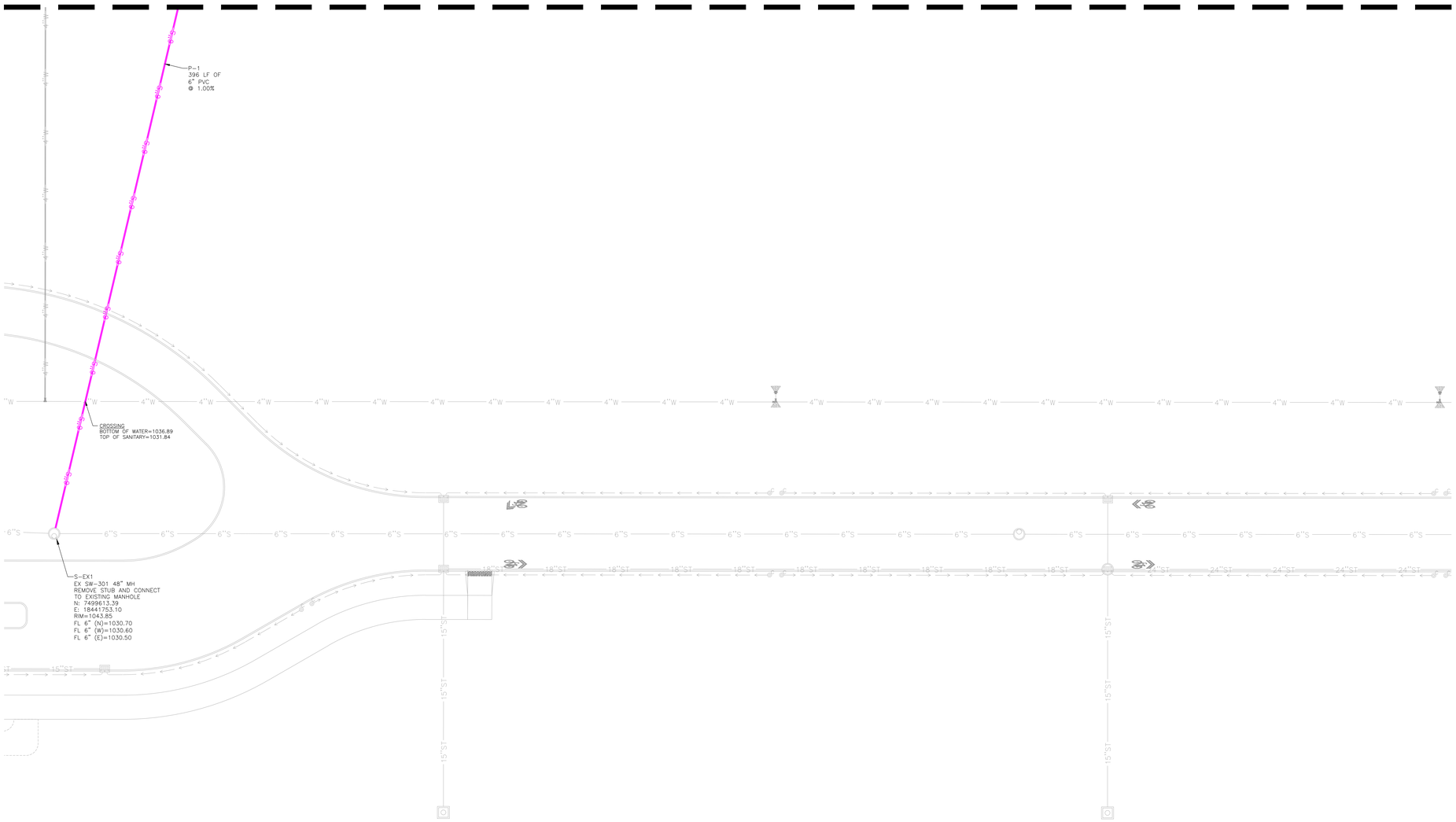
C-1800

APPLE PROJECT NO. F.21D42

4/21/2022 5:34 PM C-1800 LOGISTICS SANITARY PLAN OVERALL

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SEE SHEET C-1826 FOR CONTINUATION



LEGEND

	PROPERTY LINE
	LOT LINE
6"S	SANITARY SEWER PIPE WITH SIZE
	SANITARY SEWER MANHOLE
	MONITORING MANHOLE
	SANITARY SEWER CLEANOUT
	WYE / BEND
MH	MANHOLE
PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE
FL	FLOWLINE (INVERT)

NOTES

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2. THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS (BENDS, WYES, CONNECTIONS, ETC.) AS NECESSARY TO CONNECT THE SEWER PIPES AND STRUCTURES INTO THE SITE SANITARY SEWER NETWORK.

N

SCALE
0' 10' 20' 40'

CORGAN

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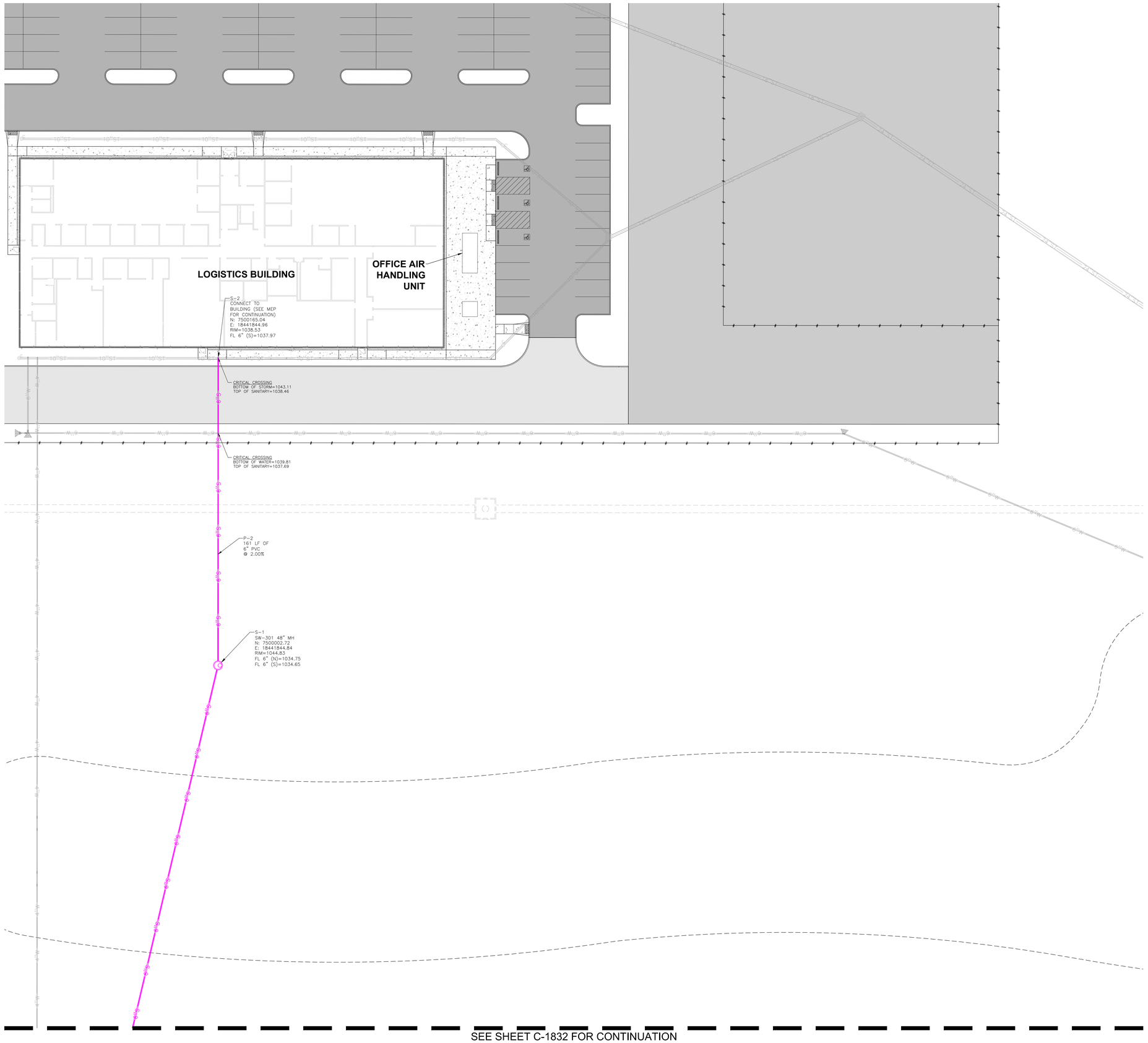
LOGISTICS SANITARY PLAN

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C-1826

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APPLE PROJECT NO. F.21D42



LEGEND

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	MONITORING MANHOLE
	SANITARY SEWER CLEANOUT
	WYE / BEND
MH	MANHOLE
PVC	POLYVINYL CHLORIDE
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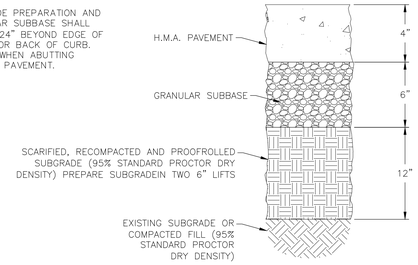
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APPLE PROJECT NO. F.21D42

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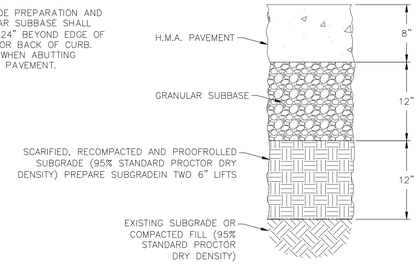
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NOTES:
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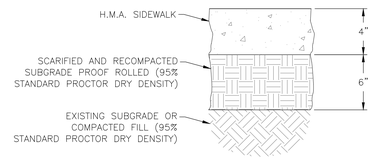


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NOT TO SCALE

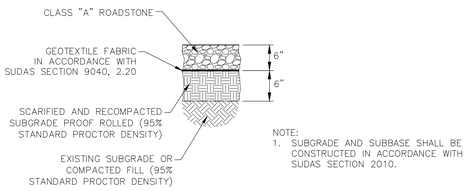
NOTES:
1. SUBGRADE PREPARATION AND GRANULAR SUBBASE SHALL EXTEND 24" BEYOND EDGE OF PAVING OR BACK OF CURB. EXCEPT WHEN ABUTTING EXISTING PAVEMENT.



2 8 INCH H.M.A. PAVEMENT
NOT TO SCALE

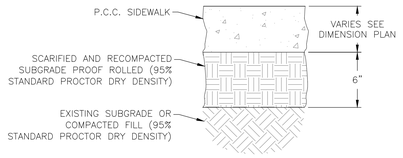


3 4 INCH H.M.A. SIDEWALK
NOT TO SCALE

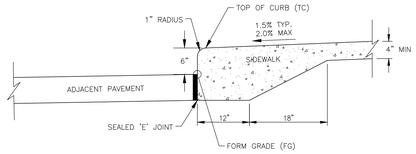


NOTE:
1. SUBGRADE AND SUBBASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUDAS SECTION 2010.

4 GRAVEL SURFACING
NOT TO SCALE

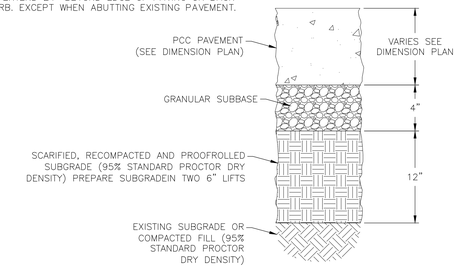


5 P.C.C. SIDEWALK
NOT TO SCALE

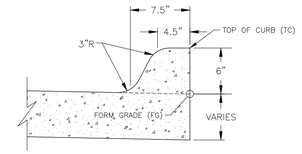


6 CLASS 'A' INTERGRAL CURB AND SIDEWALK
NOT TO SCALE

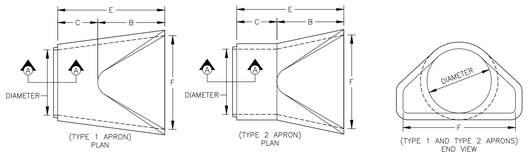
NOTES:
1. SUBGRADE PREPARATION AND GRANULAR SUBBASE SHALL EXTEND 24" BEYOND EDGE OF PAVING OR BACK OF CURB. EXCEPT WHEN ABUTTING EXISTING PAVEMENT.



7 P.C.C. PAVING
NOT TO SCALE



8 6" STANDARD CURB
NOT TO SCALE



DIMENSION 'E' SHOWN IS THE MINIMUM AND IS CONSIDERED THE DESIGN LENGTH. ADJUST FOR ANY DIFFERENCE BETWEEN THE ACTUAL LENGTH OF CONCRETE APRON INSTALLED AND THE LENGTH INDICATED BELOW FOR THE LENGTH OF CONCRETE CULVERT PIPE FURNISHED.

① TONGUE END USED ON INLET END SECTION. GROOVE END USED ON OUTLET END SECTION.

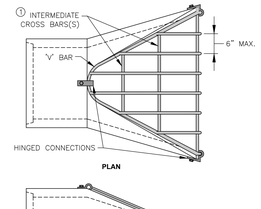
TYPE 1 APRONS

DIAM.	SLOPE	A	B	MINIMUM C	MINIMUM E	F
12"	2.4:1	4"	2'-0"	4'-3 1/8"	6'-3 1/8"	2'-0"
15"	2.4:1	6"	2'-3"	3'-10"	6'-1"	2'-6"
18"	2.3:1	9"	2'-3"	3'-10"	6'-1"	3'-0"
21"	2.4:1	9"	3'-0"	3'-3 1/2"	6'-1 1/2"	3'-6"
24"	2.5:1	9 1/2"	3'-3 1/2"	2'-6"	6'-1 1/2"	4'-0"
27"	2.5:1	10 1/2"	4'-1"	2'-0"	6'-1 1/2"	4'-4"
30"	2.5:1	12"	4'-6"	1'-7 1/2"	6'-1 1/2"	5'-0"
36"	2.5:1	15"	5'-3"	2'-9"	8'-0"	6'-0"
42"	2.5:1	21"	5'-3"	2'-9"	8'-0"	6'-6"
48"	2.5:1	24"	6'-0"	2'-0"	8'-0"	7'-0"
54"	1.8:1	27"	5'-0"	3'-0"	8'-0"	7'-6"
60"	1.6:1	29 1/2"	5'-0"	3'-0"	8'-0"	8'-0"
66"	1.7:1	30"	6'-0"	2'-3"	8'-3"	8'-0"
72"	1.6:1	30"	6'-8"	1'-9"	8'-3"	9'-0"
78"	1.8:1	36"	7'-6"	1'-9"	9'-3"	9'-6"
84"	1.3:1	29 1/2"	6'-9"	2'-6 1/2"	9'-3 1/2"	10'-0"

TYPE 2 APRONS

DIAM.	SLOPE	A	B	MINIMUM C	MINIMUM E	F
12"	2.4:1	4"	2'-0"	4'-3 1/8"	6'-3 1/8"	2'-0"
15"	2.4:1	6"	2'-3"	3'-10"	6'-1"	2'-6"
18"	2.3:1	9"	2'-3"	3'-10"	6'-1"	3'-0"
21"	2.4:1	9"	3'-0"	3'-3 1/2"	6'-1 1/2"	3'-6"
24"	2.5:1	9 1/2"	3'-3 1/2"	2'-6"	6'-1 1/2"	4'-0"
27"	2.5:1	10 1/2"	4'-1"	2'-0"	6'-1 1/2"	4'-4"
30"	2.5:1	12"	4'-6"	1'-7 1/2"	6'-1 1/2"	5'-0"
36"	2.5:1	15"	5'-3"	2'-9"	8'-0"	6'-0"
42"	2.5:1	21"	5'-3"	2'-9"	8'-0"	6'-6"
48"	2.5:1	24"	6'-0"	2'-0"	8'-0"	7'-0"
54"	1.9:1	24 1/2"	5'-5"	2'-7"	8'-0"	7'-6"
60"	1.4:1	24 1/2"	5'-0"	3'-0"	8'-0"	8'-0"
66"	1.7:1	30"	6'-0"	2'-3"	8'-3"	8'-0"
72"	1.4:1	24"	6'-6"	1'-9"	8'-3"	9'-0"
78"	1.8:1	36"	7'-6"	1'-9"	9'-3"	9'-6"
84"	1.5:1	23 1/2"	7'-5 1/2"	1'-9"	9'-3 1/2"	10'-0"

9 CIRCULAR CONCRETE APRONS
NOT TO SCALE



PROVIDE GUARD DIMENSIONS TO FIT WITH TYPE OF APRON PROVIDED. ENSURE 'V' BAR COMPLETELY RESTS ON APRON.

① ALL GUARDS MUST INCLUDE AT LEAST ONE INTERMEDIATE CROSS BAR. IF PIPE DIAMETER, OR EQUIVALENT DIAMETER, IS 60 INCHES OR GREATER, USE TWO INTERMEDIATE CROSS BARS EQUALLY SPACED.

ROUND			ARCH		ELLIPTICAL	
PIPE SIZE	H		EQUIVALENT DIAMETER	H	EQUIVALENT DIAMETER	H
12"	2"		18" to 24"	4"	18"	3"
15"	3"		30" to 36"	5"	24"	4"
18" - 24"	4"		42" to 54"	6"	30" to 36"	5"
27" - 36"	5"		60" to 72"	7"	42" to 54"	6"
42" - 54"	6"				60"	7"
60" - 72"	7"					
78" - 90"	8"					

BOLT LENGTH = PIPE WALL THICKNESS + 2D

BAR SIZES

	PIPE SIZE (DIA. or EQUIV.)	HOLE DIA REQ'D	BOLT DIA	BAR SIZE
ROUND	12" - 24"	1"	1"	1"
	27" - 48"	1"	1"	1"
	54" - 90"	1 1/2"	1"	1 1/2"
ARCH	up to 24" eq.	1"	1"	1"
	30" to 48"	1"	1"	1"
	54" to 72"	1 1/2"	1"	1 1/2"
ELLIPTICAL	up to 24" eq.	1"	1"	1"
	30" to 48"	1"	1"	1"
	54" to 60"	1 1/2"	1"	1 1/2"

10 CONCRETE PIPE APRON GUARD
NOT TO SCALE

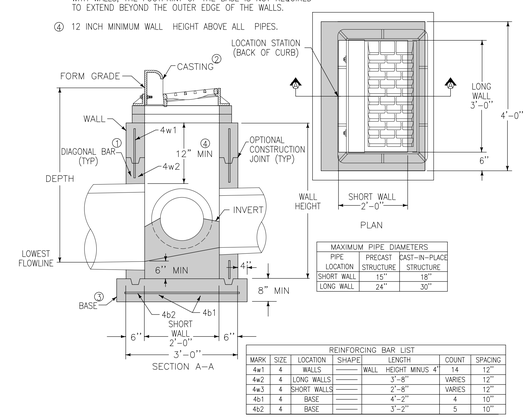
REFER TO SW-514 FOR BOXOUT DETAILS

① INSTALL FOUR #4 DIAGONAL BARS AT ALL PIPE OPENINGS.

② SW-603 TYPE R UNLESS TYPE Q IS SPECIFIED IN THE CONTRACT DOCUMENTS.

③ CAST-IN-PLACE BASE SHOWN. IF BASE IS PRECAST INTEGRAL WITH WALLS, THE FOOTPRINT OF THE BASE IS NOT REQUIRED TO EXTEND BEYOND THE OUTER EDGE OF THE WALLS.

④ 12 INCH MINIMUM WALL HEIGHT ABOVE ALL PIPES.

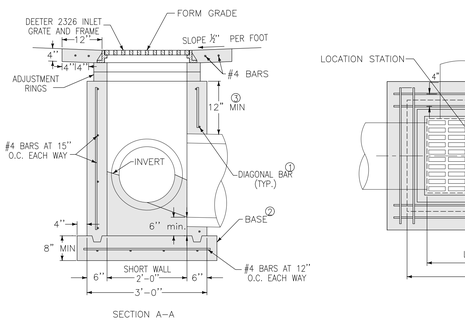


MAXIMUM PIPE DIAMETERS		
PIPE LOCATION	PRECAST STRUCTURE	CAST-IN-PLACE STRUCTURE
SHORT WALL	15"	18"
LONG WALL	24"	30"

REINFORCING BAR LIST

MARK	SIZE	LOCATION	SHAPE	LENGTH	COUNT	SPACING
4w1	4	WALLS	——	WALL HEIGHT MINUS 4"	14	12"
4w2	4	LONG WALLS	——	3'-8"	VARIES	12"
4w3	4	SHORT WALLS	——	2'-8"	VARIES	12"
4b1	4	BASE	——	4'-2"	4	10"
4b2	4	BASE	——	3'-2"	5	10"

11 SW-501 SINGLE GRATE INTAKE
NOT TO SCALE



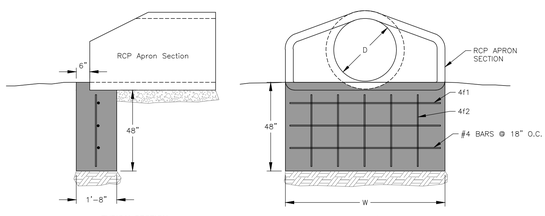
① INSTALL FOUR #4 DIAGONAL BARS AT ALL PIPE OPENINGS.

② CAST-IN-PLACE BASE SHOWN. IF BASE IS PRECAST INTEGRAL WITH WALLS, THE FOOTPRINT OF THE BASE IS NOT REQUIRED TO EXTEND BEYOND THE OUTER EDGE OF THE WALLS.

③ 12 INCH MINIMUM WALL HEIGHT ABOVE ALL PIPES.

MAXIMUM PIPE DIAMETERS		
PIPE LOCATION	PRECAST STRUCTURE	CAST-IN-PLACE STRUCTURE
SHORT WALL	15"	18"
LONG WALL	24"	30"

12 SW-511 RECTANGULAR AREA INTAKE
NOT TO SCALE



REINFORCING BAR LIST

D	W	Mark	Size	Length	Count
12"	2'-4"	4f1	4	2'-0"	3
		4f2	4	3'-8"	2
15"	2'-10 1/2"	4f1	4	2'-6 1/2"	3
		4f2	4	3'-8"	2
18"	3'-5"	4f1	4	3'-1"	3
		4f2	4	3'-8"	3
24"	4'-6"	4f1	4	4'-2"	3
		4f2	4	3'-8"	3
30"	5'-7"	4f1	4	5'-3"	3
		4f2	4	3'-8"	4
36"	6'-8"	4f1	4	6'-4"	3
		4f2	4	3'-8"	5
42"	7'-3"	4f1	4	6'-11"	3
		4f2	4	3'-8"	5
48"	7'-10"	4f1	4	7'-6"	3
		4f2	4	3'-8"	6
54"	8'-5"	4f1	4	8'-1"	3
		4f2	4	3'-8"	6
60"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	6
66"	8'-11"	4f1	4	8'-7"	3
		4f2	4	3'-8"	6
72"	10'-0"	4f1	4	9'-6"	3
		4f2	4	3'-8"	7
78"	10'-7"	4f1	4	10'-3"	3
		4f2	4	3'-8"	7
84"	11'-1"	4f1	4	10'-9"	3
		4f2	4	3'-8"	8

1. INSTALL A 3 FOOT CLAY WATER STOP AT ALL STORM SEWER OUTLETS.
2. APRON GUARDS ARE REQUIRED ON ALL APRONS.

13 RCP APRON SECTION FOOTING
NOT TO SCALE

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
3333 Lee Parkway, Suite 475
Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
233 N Water Street, 6th Floor
Milwaukee, WI 53202
414-333-6427

ISSUES

1	2022.02.01	CITY OF WAUKEE SUBMITTAL #1
2	2022.03.03	CITY OF WAUKEE SUBMITTAL #2
3	2022.04.05	CITY OF WAUKEE SUBMITTAL #3
4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

REVISIONS

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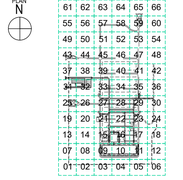
RYAN HARDISTY



This document is incomplete and may not be used for regulatory approval, permit or construction.

Date of issue:
04.05.2022

KEYPLAN



LOGISTICS DETAILS

JOB 21245.0000
DATE 4/21/2022
SHEET

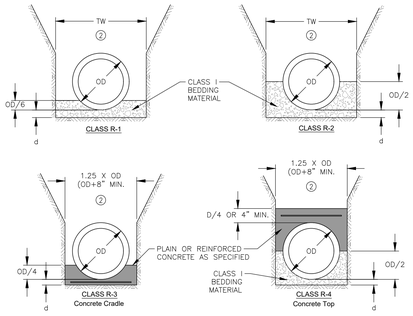
C-5101

C-5101 LOGISTICS DETAILS
4/21/2022 5:36 PM

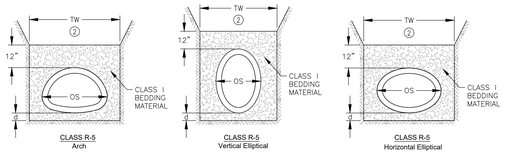
THESE DRAWINGS CONTAIN TRADEMARK SECRETS AND PROPRIETARY INFORMATION. THEY ARE NOT TO BE RELEASED FOR PUBLIC REVIEW.

APPLE PROJECT NO. F.21D42

RCP AND VCP CIRCULAR PIPE BEDDING (1)



REINFORCED CONCRETE ARCH AND ELLIPTICAL PIPE BEDDING



1. USE BEDDING CLASS R-1 OR R-2 UNLESS SPECIFIED OTHERWISE.
2. PLACE REMAINDER OF BEDDING AND BACKFILL MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

KEY:
OD = OUTSIDE DIAMETER OF PIPE
OS = OUTSIDE SPAN OF PIPE
TW = TRENCH WIDTH AT TOP OF PIPE: MIN. = OD+18 INCHES, MAX.= 1.25XOD+12 INCHES OR 54 INCHES (WHICHEVER IS GREATER)
d = DEPTH OF BEDDING MATERIAL BELOW PIPE: OD/8 OR OS/8, OR 4 INCHES (WHICHEVER IS GREATER)

ALLOWABLE BURY DEPTH

CLASS III RCP

Pipe Diameter (in)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding		
			No Steel	As=0.4%	As=1.0%
12	7'	10'	15'	19'	27'
15	8'	10'	16'	19'	27'
18	8'	11'	16'	20'	40'
21	8'	11'	18'	26'	40'
24	8'	12'	23'	36'	40'
27	10'	15'	30'	40'	40'
30	11'	15'	29'	40'	40'
33	11'	15'	28'	40'	40'
36	11'	15'	27'	40'	40'
42	11'	15'	26'	38'	40'
48	11'	15'	26'	36'	40'
54	11'	15'	25'	34'	40'
60	11'	15'	25'	33'	40'
66	11'	15'	24'	32'	40'
72	11'	15'	24'	32'	40'

As = Area of Steel Reinforcing

CLASS IV RCP

Pipe Diameter (in)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding		
			No Steel	As=0.4%	As=1.0%
12	12'	15'	23'	28'	40'
15	12'	16'	23'	30'	40'
18	13'	16'	29'	40'	40'
21	13'	18'	40'	40'	40'
24	16'	23'	40'	40'	40'
27	19'	30'	40'	40'	40'
30	19'	29'	40'	40'	40'
33	19'	28'	40'	40'	40'
36	19'	28'	40'	40'	40'
42	18'	27'	40'	40'	40'
48	18'	26'	40'	40'	40'
54	18'	25'	40'	40'	40'
60	18'	25'	40'	40'	40'
66	18'	25'	40'	40'	40'
72	18'	24'	40'	40'	40'

As = Area of Steel Reinforcing

CLASS V RCP

Pipe Diameter (in)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding		
			No Steel	As=0.4%	As=1.0%
12	18'	23'	35'	40'	40'
15	19'	24'	40'	40'	40'
18	19'	30'	40'	40'	40'
21	25'	40'	40'	40'	40'
24	34'	40'	40'	40'	40'
27	40'	40'	40'	40'	40'
30	40'	40'	40'	40'	40'
33	40'	40'	40'	40'	40'
36	40'	40'	40'	40'	40'
42	37'	40'	40'	40'	40'
48	35'	40'	40'	40'	40'
54	33'	40'	40'	40'	40'
60	32'	40'	40'	40'	40'
66	31'	40'	40'	40'	40'
72	31'	40'	40'	40'	40'

As = Area of Steel Reinforcing

EXTRA STRENGTH VCP

Pipe Dia. (in)	Bedding Class				
	R-1	R-2	R-3 & R-4		
			No Steel	As=0.4%	As=1.0%
6	25'	30'	30'	30'	30'
8	20'	26'	30'	30'	30'
10	18'	23'	30'	30'	30'
12	16'	20'	30'	30'	30'
15	15'	19'	28'	30'	30'
18	14'	18'	30'	30'	30'
21	15'	22'	30'	30'	30'
24	18'	28'	30'	30'	30'
27	20'	30'	30'	30'	30'
30	19'	29'	30'	30'	30'
33	20'	30'	30'	30'	30'
36	20'	30'	30'	30'	30'
39	19'	29'	30'	30'	30'
42	18'	26'	30'	30'	30'

As = Area of Steel Reinforcing

CONCRETE ARCH PIPE

Pipe Size (in x in)	Equiv. Dia. (in)	Pipe Class	
		A-III	A-IV
18 x 11	15	6'	11'
22 x 13	18	6'	11'
26 x 15	21	6'	13'
29 x 18	24	7'	15'
36 x 22	30	8'	15'
44 x 27	36	8'	14'
51 x 31	42	8'	15'
58 x 36	48	8'	15'
65 x 40	54	8'	15'
73 x 45	60	8'	14'
88 x 54	72	9'	14'

Based on Class R-5 bedding

HORIZONTAL ELLIPTICAL RCP

Pipe Size (in x in)	Equiv. Dia. (in)	Pipe Class	
		HE-III	HE-IV
14 x 23	18	12'	22'
19 x 30	24	15'	29'
22 x 34	27	15'	28'
24 x 38	30	15'	27'
27 x 42	33	15'	27'
29 x 45	36	15'	26'
32 x 49	39	15'	26'
34 x 54	42	15'	25'
38 x 60	48	15'	25'
43 x 68	54	15'	24'
48 x 76	60	15'	24'
53 x 83	66	15'	24'
58 x 91	72	15'	24'
63 x 98	78	15'	23'
68 x 106	84	15'	23'

Based on Class R-5 bedding

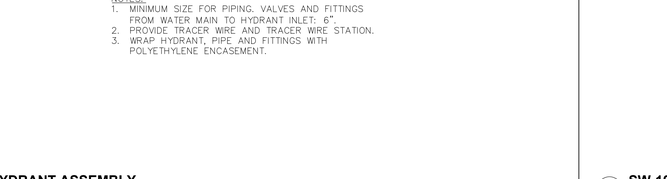
VERTICAL ELLIPTICAL RCP

Pipe Size (in x in)	Equiv. Dia. (in)	Pipe Class			
		VE-III	VE-IV	VE-V	VE-VI
23 x 14	18	10'	15'	22'	33'
30 x 19	24	10'	16'	34'	40'
34 x 22	27	11'	20'	40'	40'
38 x 24	30	12'	23'	40'	40'
42 x 27	33	15'	30'	40'	40'
45 x 29	36	15'	29'	40'	40'
49 x 32	39	15'	29'	40'	40'
54 x 34	42	15'	28'	40'	40'
60 x 38	48	15'	27'	40'	40'
68 x 43	54	15'	27'	40'	40'
76 x 48	60	15'	26'	40'	40'
83 x 53	66	15'	25'	40'	40'
91 x 58	72	15'	25'	40'	40'
98 x 63	78	15'	25'	40'	40'
106 x 68	84	15'	24'	40'	40'

Based on Class R-5 bedding

1 SW-102 RIGID GRAVITY PIPE TRENCH BEDDING
NOT TO SCALE

BEDDING CLASSES



1. PLACE REMAINDER OF BEDDING AND BACKFILL MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
2. MINIMUM DEPTH OF BURY 12 INCHES OR AS SPECIFIED BY THE MANUFACTURER.

ALLOWABLE BEDDING CLASSES

PIPE MATERIAL	STORM SEWER	SANITARY SEWER
Ductile Iron	F-1, F-2, F-3	F-1, F-2, F-3
HDPE	F-2, F-3	Not allowed
Polypropylene	F-2, F-3	F-3
PVC	F-2, F-3	F-3

KEY:
OD = OUTSIDE DIAMETER OF PIPE
TW = TRENCH WIDTH AT TOP OF PIPE: MIN. = OD+18 INCHES OR 1.25XOD+12 INCHES (WHICHEVER IS GREATER)

ALLOWABLE BURY DEPTH (2)

PVC PIPE

Pipe Diameter (in)	ASTM D 3034			ASTM F 679	ASTM F 949	ASTM F 1803	ASTM D 2680
	Solid Wall			Solid Wall	Corrug. Exterior	Closed Profile	Composite (Truss Type)
	SDR 23.5	SDR 26	SDR 35	SDR 35			
8	30'	28'	24'	– – –	24'	– – –	32'
10	30'	28'	24'	– – –	24'	– – –	32'
12	30'	28'	24'	– – –	24'	– – –	32'
15	30'	28'	24'	– – –	24'	– – –	32'
18	– – –	– – –	– – –	24'	24'	– – –	– – –
21	– – –	– – –	– – –	24'	24'	24'	– – –
24	– – –	– – –	– – –	24'	24'	24'	– – –
27	– – –	– – –	– – –	24'	– – –	24'	– – –
30	– – –	– – –	– – –	24'	24'	24'	– – –
33	– – –	– – –	– – –	24'	– – –	– – –	– – –
36	– – –	– – –	– – –	24'	24'	24'	– – –
42	– – –	– – –	– – –	24'	– – –	24'	– – –
48	– – –	– – –	– – –	24'	– – –	24'	– – –
54	– – –	– – –	– – –	– – –	– – –	24'	– – –
60	– – –	– – –	– – –	– – –	– – –	24'	– – –

DUCTILE IRON, AWWA C151, CLASS 52

Pipe Diameter (in)	Class F-1 Bedding	Class F-2 Bedding	Class F-3 Bedding
4	40'	40'	40'
6	40'	40'	40'
8	40'	40'	40'
10	40'	40'	40'
12	37'	40'	40'
14	31'	40'	40'
16	28'	37'	40'
18	25'	34'	40'
20	23'	32'	40'
24	20'	29'	38'
30	18'	23'	31'
36	18'	22'	30'
42	17'	21'	29'
48	16'	19'	27'
54	16'	19'	27'

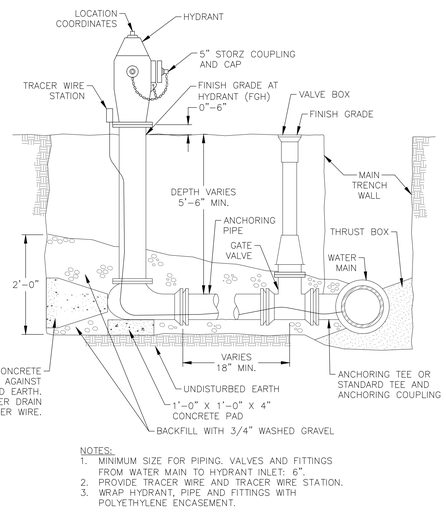
HDPE PIPE

Pipe Diameter (in)	AASHTO M 294
12	8'
15	9'
18	9'
24	9'
30	9'
36	9'
42	8'
48	8'
54	8'
60	8'

POLYPROPYLENE PIPE

Pipe Diameter (in)	ASTM F 2764
12	24'
15	25'
18	22'
24	20'
30	22'
36	21'
42	22'
48	23'
54	21'
60	21'

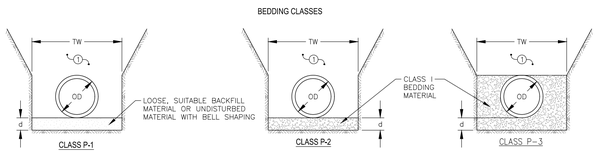
2 SW-103 FLEXIBLE GRAVITY PIPE TRENCH BEDDING
NOT TO SCALE



NOTES:
1. MINIMUM SIZE FOR PIPING, VALVES AND FITTINGS FROM WATER MAIN TO HYDRANT INLET: 6".
2. PROVIDE TRACER WIRE AND TRACER WIRE STATION.
3. WRAP HYDRANT, PIPE AND FITTINGS WITH POLYETHYLENE ENCASEMENT.

3 FIRE HYDRANT ASSEMBLY
NOT TO SCALE

BEDDING CLASSES



1. PLACE REMAINDER OF BEDDING AND BACKFILL MATERIAL AS SPECIFIED IN THE CONTRACT DOCUMENTS.

KEY:
OD = OUTSIDE DIAMETER OF PIPE
TW = TRENCH WIDTH AT TOP OF PIPE: MIN. = OD+18 INCHES OR 1.25XOD+12 INCHES (WHICHEVER IS GREATER)
d = DEPTH OF BEDDING MATERIAL BELOW PIPE: MIN. = OD/8 OR 4 INCHES (WHICHEVER IS GREATER)

ALLOWABLE BURY DEPTH

DUCTILE IRON, AWWA C151, CLASS 52

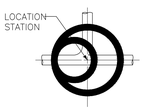
Pipe Diameter (inches)	Class P-1 Bedding	Class P-2 Bedding	Class P-3 Bedding
4	40'	40'	40'
6	40'	40'	40'
8	40'	40'	40'
10	36'	40'	40'
12	31'	40'	40'
14	26'	40'	40'
16	23'	37'	40'
18	20'	34'	40'
20	18'	32'	40'
24	16'	29'	38
30	13'	23'	31'
36	13'	22'	30'
42	13'	21'	29'
48	13'	19'	27'
54	13'	19'	27'

PVC, AWWA C900, DR18

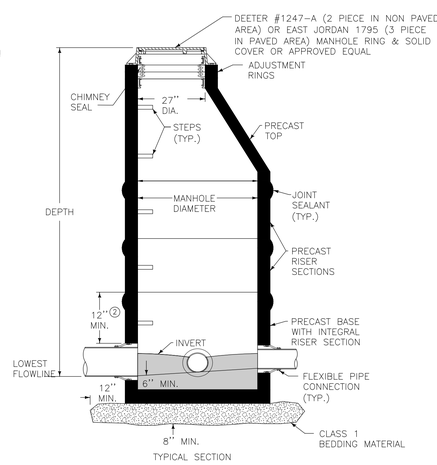
Pipe Diameter (inches)	Class P-1 Bedding	Class P-2 Bedding	Class P-3 Bedding
4	19'	23'	40'
6	19'	23'	40'
8	19'	23'	40'
10	19'	23'	40'
12	19'	23'	40'
14	19'	23'	40'
16	19'	23'	40'
18	19'	23'	40'
20	19'	23'	40'
24	19'	23'	40'

4 SW-104 PRESSURE PIPE TRENCH BEDDING
NOT TO SCALE

1. FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES OF CONCRETE BETWEEN VERTICAL EDGES OF PIPE OPENINGS.
2. 12 INCH MINIMUM RISER HEIGHT ABOVE ALL PIPE OPENINGS.



MANHOLE DIAMETER (INCHES)	MAXIMUM PIPE DIAMETER (INCHES) FOR 2 PIPES (1)	
	AT 180° SEPARATION	AT 90° SEPARATION
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42



5 SW-301 CIRCULAR SANITARY SEWER MANHOLE
NOT TO SCALE

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4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

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	01	02	03	04	05	06

LOGISTICS DETAILS

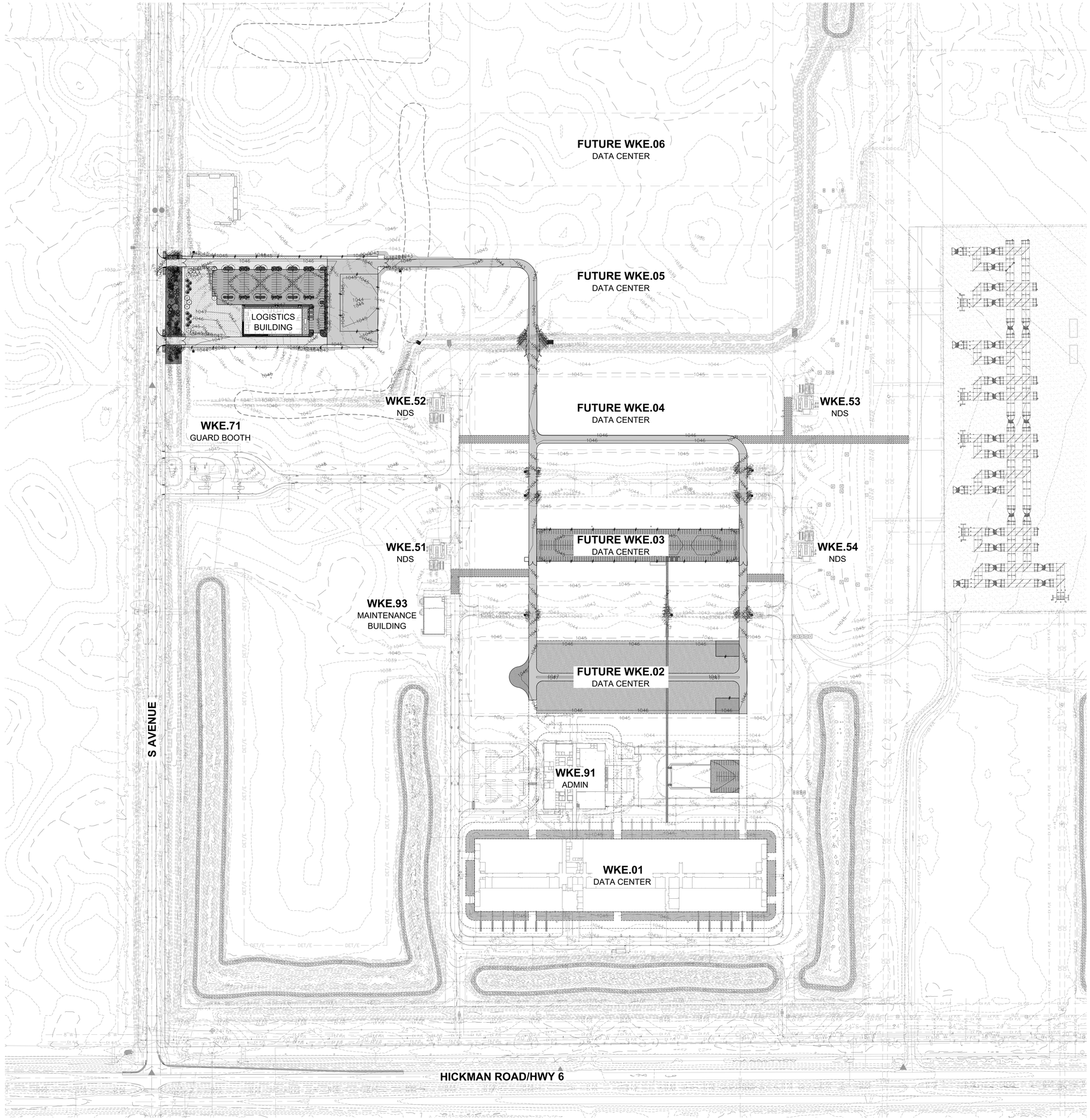
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DATE 4/21/2022
SHEET

C-5102

4/21/2022 5:36 PM C-5102 LOGISTICS DETAILS

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APPLE PROJECT NO. F.21D42



LANDSCAPE NOTES

1. LOCATE ALL UTILITIES BEFORE ANY PLANTING BEGINS.
2. ALL WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT MORGAN SPECIFICATIONS AND THE 2021 SUDAS STANDARD SPECIFICATIONS.
3. TYPE, SIZE, AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1
4. ALL PLANT MATERIAL SHALL BE HEALTHY SPECIMENS WITHOUT DEFORMITIES, VOIDS AND OPEN SPACES, WITH WELL DEVELOPED BRANCH AND ROOT SYSTEMS; TRUE TO HEIGHT, SHAPE AND CHARACTER OF GROWTH OF THE SPECIES OR VARIETY.
5. SEED (LOW-GROW GRASS MIXTURE FROM UNITED SEEDS) ALL DISTURBED AREAS AS DIRECTED BY OWNER.
6. BACKFILL TO TOP OF CURB. (MINUS 1 1/2" FOR SOD, IF REQUIRED.)
7. WEED PREVENTER (PRE-EMERGENT) SHALL BE SPREAD OVER SOIL AFTER PLANTING AND BEFORE MULCHING IN ALL PLANTING BEDS PER MANUFACTURER'S RECOMMENDATIONS.
8. SHREDDED HARDWOOD MULCH SHALL BE PLACED AROUND ALL TREES, SHRUBS AND IN ALL PLANTING BEDS TO A (MIN.) DEPTH OF 3".
9. ALL EDGING SHALL BE SPADE CUT EDGE.
10. PLANT QUANTITIES ARE SHOWN FOR INFORMATION ONLY, THE DRAWING SHALL PREVAIL IF ANY CONFLICTS ARISE.
11. ALL DEBRIS SPILLED IN THE PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
12. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.
13. TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 8 INCHES.
14. ALL BERMS WITHIN THE LANDSCAPE BUFFERS SHALL BE PLACED WITH TOPSOIL TO A MAXIMUM HEIGHT/ DEPTH OF BERM IF AVAILABLE.

MINIMUM PLANTING REQUIREMENTS

MINIMUM SIZE:
THE MINIMUM SIZE FOR REQUIRED PLANTINGS, OTHER THAN THOSE IN REQUIRED BUFFERS, SHALL BE AS FOLLOWS:

A. DECIDUOUS OVERSTORY TREES SHALL BE A MINIMUM OF EIGHT (8) FEET IN HEIGHT.
B. EVERGREEN OVERSTORY TREES SHALL BE A MINIMUM OF SIX (6) FEET IN HEIGHT.
C. DECIDUOUS ORNAMENTAL TREES SHALL BE A MINIMUM OF SIX (6) FEET IN HEIGHT.

S AVENUE BUFFER LANDSCAPE REQUIREMENTS

334 LF

3 OVERSTORY TREES, 4 EVERGREEN TREES AND 3 ORNAMENTAL TREES PER 50 LF OF BUFFER

REQUIRED:
OVERSTORY TREES =20
EVERGREEN TREES =27
ORNAMENTAL TREES =20
PROVIDED:
OVERSTORY TREES =20
EVERGREEN TREES =27
ORNAMENTAL TREES =20

PLANT SCHEDULE S STREET BUFFER

EVERGREEN TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
PB	3	BLACK HILLS SPRUCE	PICEA GLAUCA DENSATA	B&B, 6' HEIGHT
PC	4	COLORADO SPRUCE	PICEA PUNGENS	B&B, 6' HEIGHT
AC	9	WHITE FIR	ABIES CONCOLOR	B&B, 6' HEIGHT
PS	14	WHITE PINE	PINUS STROBUS	B&B, 6' HEIGHT
OVERSTORY TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
PO	2	AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	B&B, 2" CALIPER
AB	4	AUTUMN BLAZE RED MAPLE	ACER RUBRUM "AUTUMN BLAZE"	B&B, 2" CALIPER
BM	5	BLACK MAPLE	ACER NIGRUM	B&B, 2" CALIPER
AE	3	ENDOWMENT MAPLE	ACER SACCHARUM "ENDOWMENT"	B&B, 2" CALIPER
QC	3	ENGLISH OAK	QUERCUS ROBUR "CRIMSCHMIDT" TM	B&B, 2" CALIPER
QB	5	SWAMP WHITE OAK	QUERCUS BICOLOR	B&B, 2" CALIPER
UNDERSTORY TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
CE	4	EASTERN REDBUD MULTI-TRUNK	CERCIS CANADENSIS	B&B, 1.5" CALIPER
MS	2	PINK SPIRES CRAB APPLE	MALUS X 'PINK SPIRES'	B&B, 1.5" CALIPER
MP	6	PRAIRIFIRE CRAB APPLE	MALUS X 'PRAIRIFIRE'	B&B, 1.5" CALIPER
AS	10	SERVICEBERRY	AMELANCHIER ALNIFOLIA	B&B, 6' MULTI-STEM

OPEN SPACE CALCULATIONS

PHASE ONE TOTAL AREA = 287,035 SF
OPEN SPACE REQUIRED (20%) = 57,407 SF

1 TREE PER 1,000 SQUARE FEET OF REQUIRED OPEN SPACE.
1 SHRUB PER 1,000 SQUARE FEET OF REQUIRED OPEN SPACE.

TREES REQUIRED = 57
TREES PROVIDED = 57

SHRUBS REQUIRED = 57
SHRUBS PROVIDED = 57

PLANT SCHEDULE OPEN SPACE

EVERGREEN TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
PG	2	COLORADO BLUE SPRUCE	PICEA PUNGENS 'GLAUCA'	B&B, 6' HEIGHT
PS	10	WHITE PINE	PINUS STROBUS	B&B, 6' HEIGHT
OVERSTORY TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
AB	4	AUTUMN BLAZE RED MAPLE	ACER RUBRUM "AUTUMN BLAZE"	B&B, 2" CALIPER
AE	12	ENDOWMENT MAPLE	ACER SACCHARUM "ENDOWMENT"	B&B, 2" CALIPER
QC	10	ENGLISH OAK	QUERCUS ROBUR "CRIMSCHMIDT" TM	B&B, 2" CALIPER
QR	4	RED OAK	QUERCUS RUBRA	B&B, 2" CALIPER
GS	14	SKYLINE HONEY LOCUST	GLEDITSIA TRIACANTHOS 'SKYLINE'	B&B, 2" CALIPER
QA	3	WHITE OAK	QUERCUS ALBA	B&B, 2" CALIPER
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
JB	5	BUFFALO JUNIPER	JUNIPERUS SABINA 'BUFFALO'	5 GAL
SM	12	DWARF KOREAN LILAC	SYRINGA MEYERI 'PALIBIN'	5 GAL
RR	3	FINE LINE BUCKTHORN	RHAMNUS FRANGULA 'FINE LINE'	36" HT.
RG2	10	GRO-LOW FRAGRANT SUMAC	RHUS AROMATICA 'GRO-LOW'	5 GAL
CH2	17	IVORY HALO DOGWOOD	CORNUS ALBA 'BAILHALO' TM	5 GAL
PJ	10	JACKMAN'S POTENTILLA	POTENTILLA FRUTICOSA 'JACKMANII'	5 GAL

TURF SEED MIX 1
SUPER SHADE FINE FESCUE GRASS MIXTURE FROM UNITED SEEDS:
SEED BETWEEN MARCH 1 AND MAY 31 AND BETWEEN AUGUST 10 AND OCTOBER 15.

TURF SEED MIX 2
SUPER TURF II LS FROM UNITED SEEDS:
SEED BETWEEN MARCH 1 AND MAY 31 AND BETWEEN AUGUST 10 AND OCTOBER 15.

ROCK MULCH
1"-3" GRANITE CHIPS, MINIMUM DEPTH OF 3" OVER MIRASCAPE LANDSCAPE FABRIC (OR EQUAL). EDGING BETWEEN ROCK MULCH AND GRASS SHALL BE 4" STEEL LANDSCAPE EDGING.

SCALE
0' 75' 150' 300'

CORGAN

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KEYPLAN

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LOGISTICS LANDSCAPE PLAN OVERALL

JOB 21245.0000
DATE 4/21/2022
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L-1100

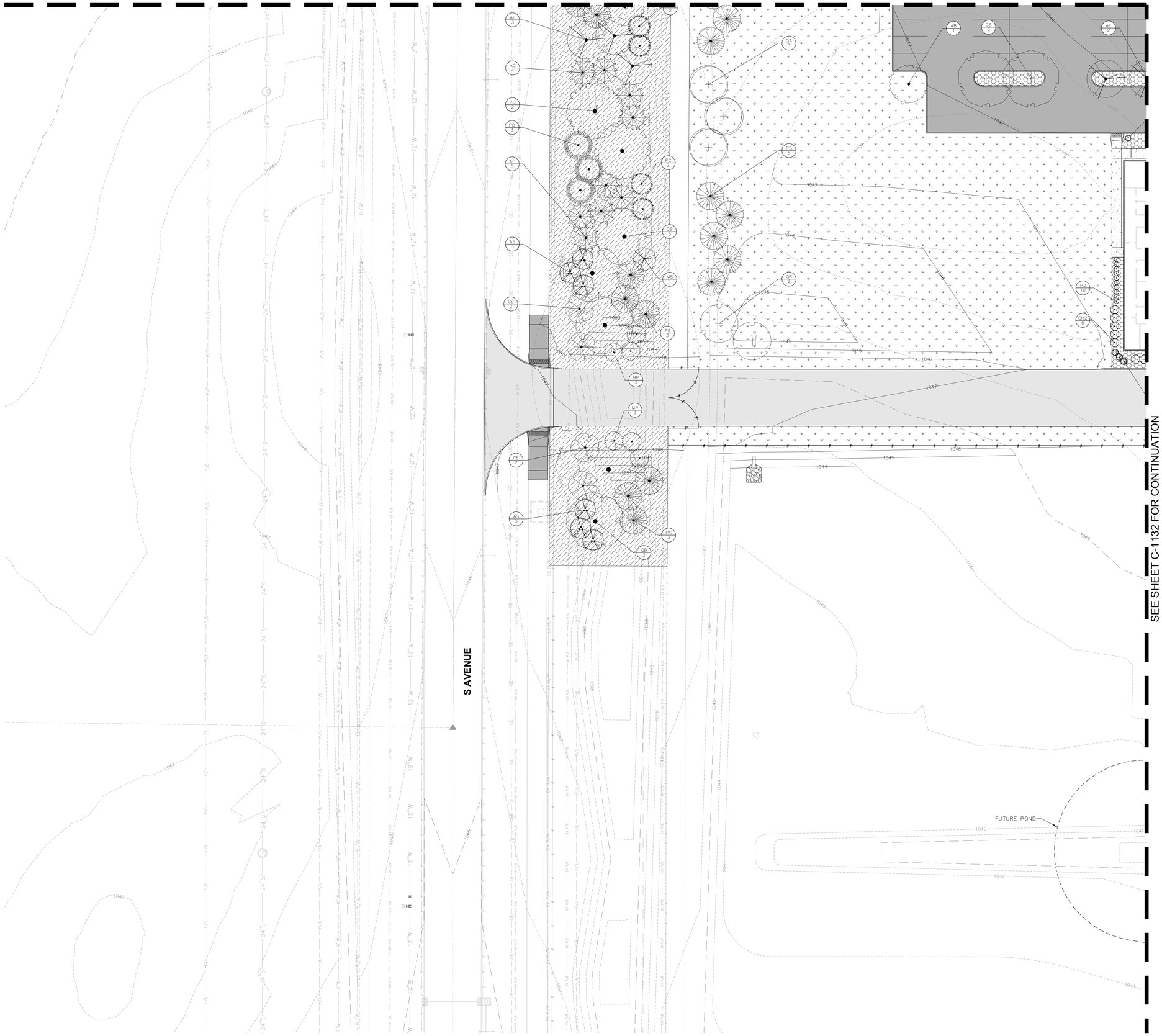
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APPLE PROJECT NO. F.21D42

SEE SHEET C-1137 FOR CONTINUATION

PLANT SCHEDULES ARE LOCATED ON SHEET L-1100



4/21/2022 5:42 PM L-1131 LOGISTICS LANDSCAPE PLAN

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LOGISTICS LANDSCAPE PLAN

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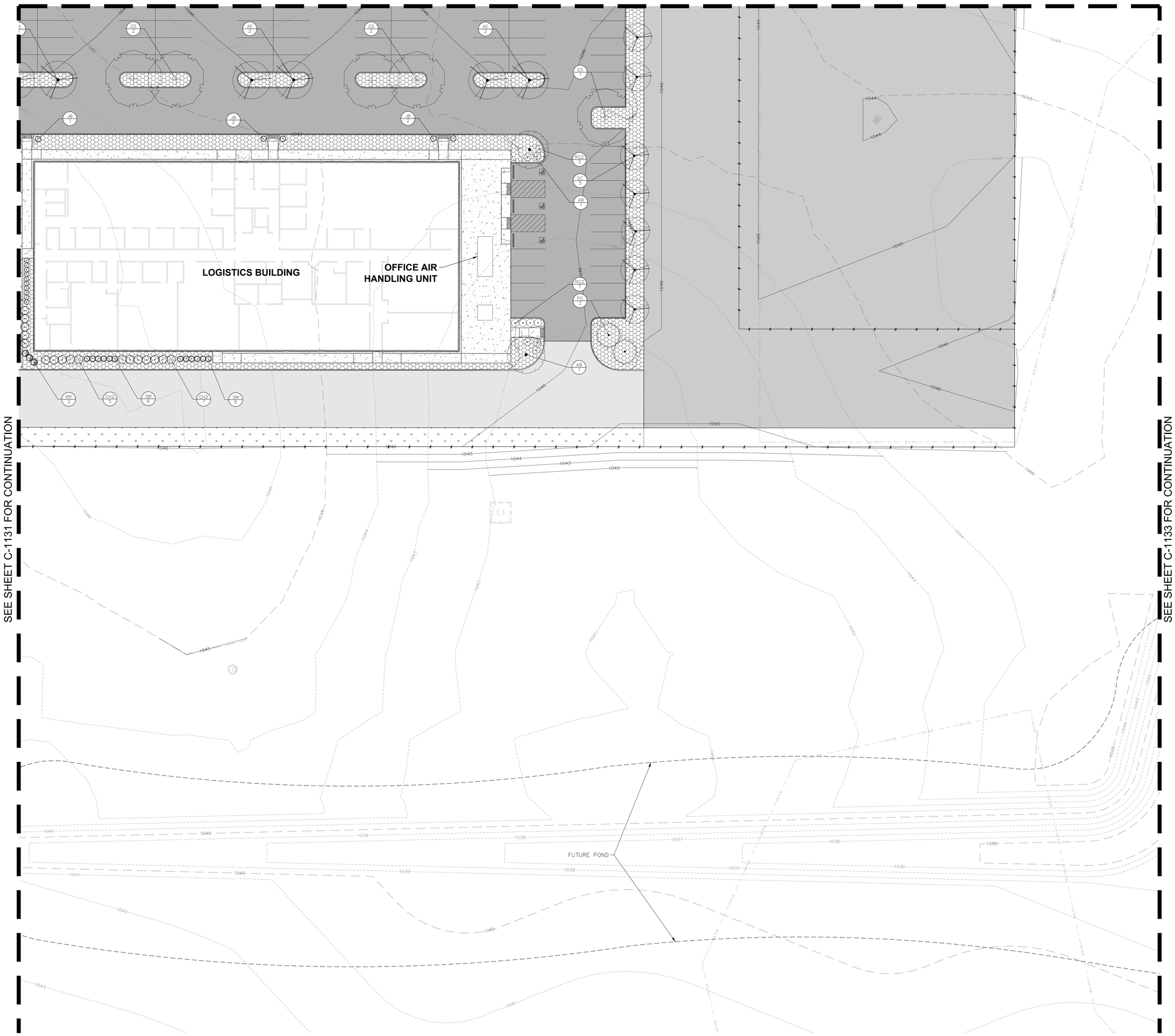
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APPLE PROJECT NO. F.21D42

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PLANT SCHEDULES ARE LOCATED ON SHEET L-1100



SEE SHEET C-1131 FOR CONTINUATION

SEE SHEET C-1133 FOR CONTINUATION

4/21/2022 5:43 PM L-1132 LOGISTICS LANDSCAPE PLAN

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LOGISTICS LANDSCAPE PLAN

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L-1132

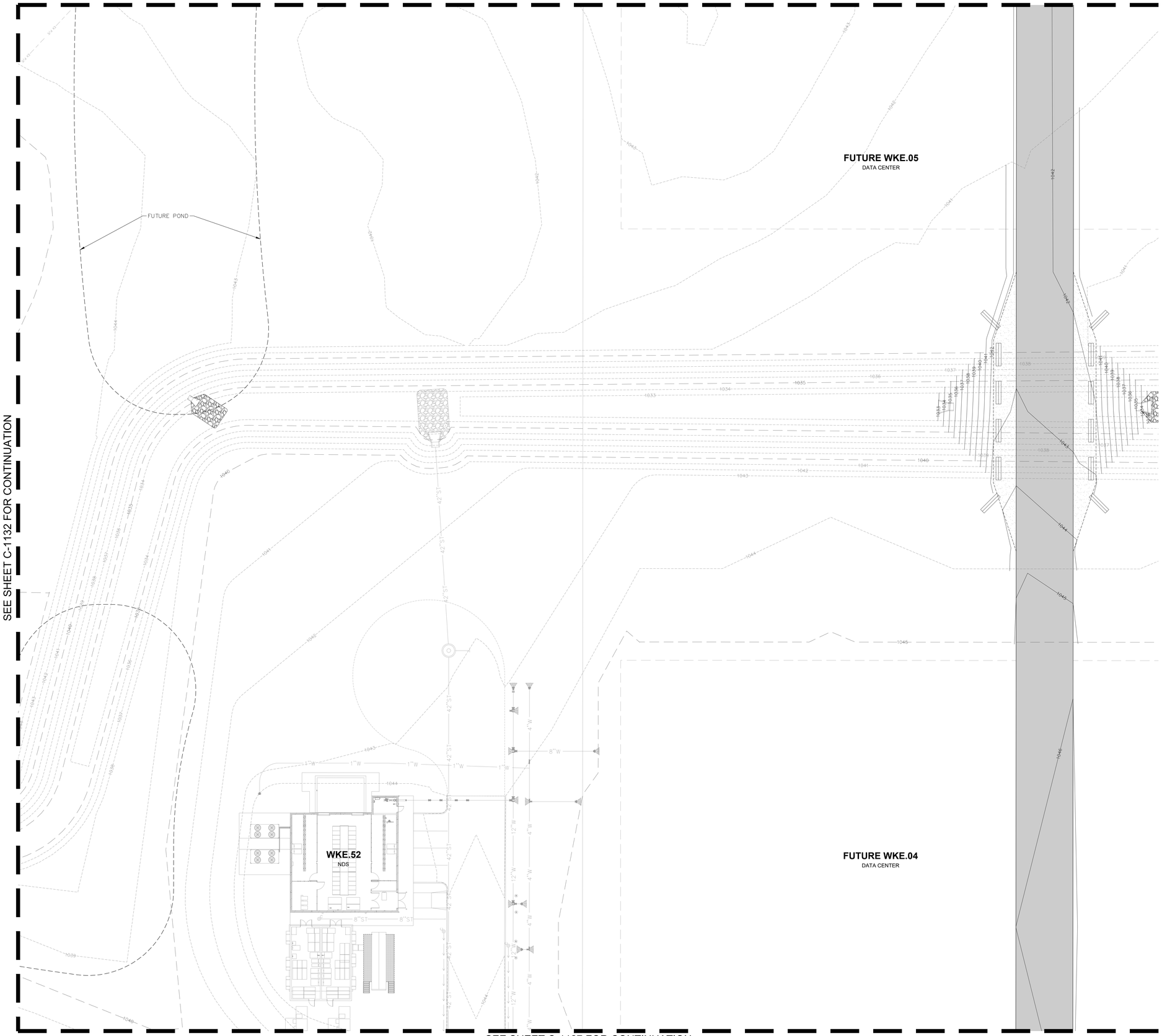
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SEE SHEET C-1132 FOR CONTINUATION



SEE SHEET C-1127 FOR CONTINUATION

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3	2022.04.05	CITY OF WAUKEE SUBMITTAL #3
4	2022.04.21	CITY OF WAUKEE SUBMITTAL #4

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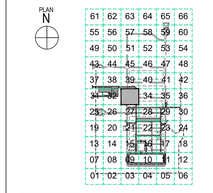
RYAN HARDISTY

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Date of issue:
04.05.2022

KEYPLAN



LOGISTICS LANDSCAPE PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

L-1133

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APPLE PROJECT NO. F.21D42

PLANT SCHEDULES ARE LOCATED ON SHEET L-1100

S AVENUE

SEE SHEET C-1138 FOR CONTINUATION

SEE SHEET C-1131 FOR CONTINUATION

SCALE
0' 10' 20' 40'

4/21/2022 5:44 PM L-1137 LOGISTICS LANDSCAPE PLAN

CORGAN

401 N. Houston Street
Dallas, TX 75202
T: 214-748-2000

PROJECT MORGAN
WKE.SITE
2995 W. HICKMAN RD
WAUKEE, IA 50263

Ponce-Fuess Engineering
3333 Lee Parkway, Suite 475
Dallas, TX 75219
469-310-2852

Civil Design Advantage
4121 NW Urbandale Drive
Urbandale, IA 50322
515-369-4400

kW Mission Critical
233 N Water Street, 6th Floor
Milwaukee, WI 53202
414-333-6427

ISSUES

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04.05.2022

KEYPLAN

PLAN N

61	62	63	64	65	66	
55	56	57	58	59	60	
49	50	51	52	53	54	
43	44	45	46	47	48	
	38	39	40	41	42	
31	32	33	34	35	36	
25	26	27	28	29	30	
19	20	21	22	23	24	
13	14	15	16	17	18	
07	08	09	10	11	12	
01	02	03	04	05	06	

LOGISTICS LANDSCAPE PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

L-1137

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APPLE PROJECT NO. F.21D42

PLANT SCHEDULES ARE LOCATED ON SHEET L-1100

SEE SHEET C-1137 FOR CONTINUATION

SEE SHEET C-1139 FOR CONTINUATION

GUARD SHACK

SEE SHEET C-1132 FOR CONTINUATION

SCALE 0' 10' 20' 40'

L-1138 LOGISTICS LANDSCAPE PLAN

4/21/2022 5:45 PM

CORGAN

401 N. Houston Street
Dallas, TX 75202
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PROJECT MORGAN
WKE.SITE
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RYAN HARDISTY

STATE OF IOWA RYAN J. HARDISTY 20811 PROFESSIONAL ENGINEER

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PLAN N

61	62	63	64	65	66	
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37		39	40	41	42	
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19	20	21	22	23	24	
13	14	15	16	17	18	
07	08	09	10	11	12	
01	02	03	04	05	06	

LOGISTICS LANDSCAPE PLAN

JOB 21245.0000
DATE 4/21/2022
SHEET

L-1138

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