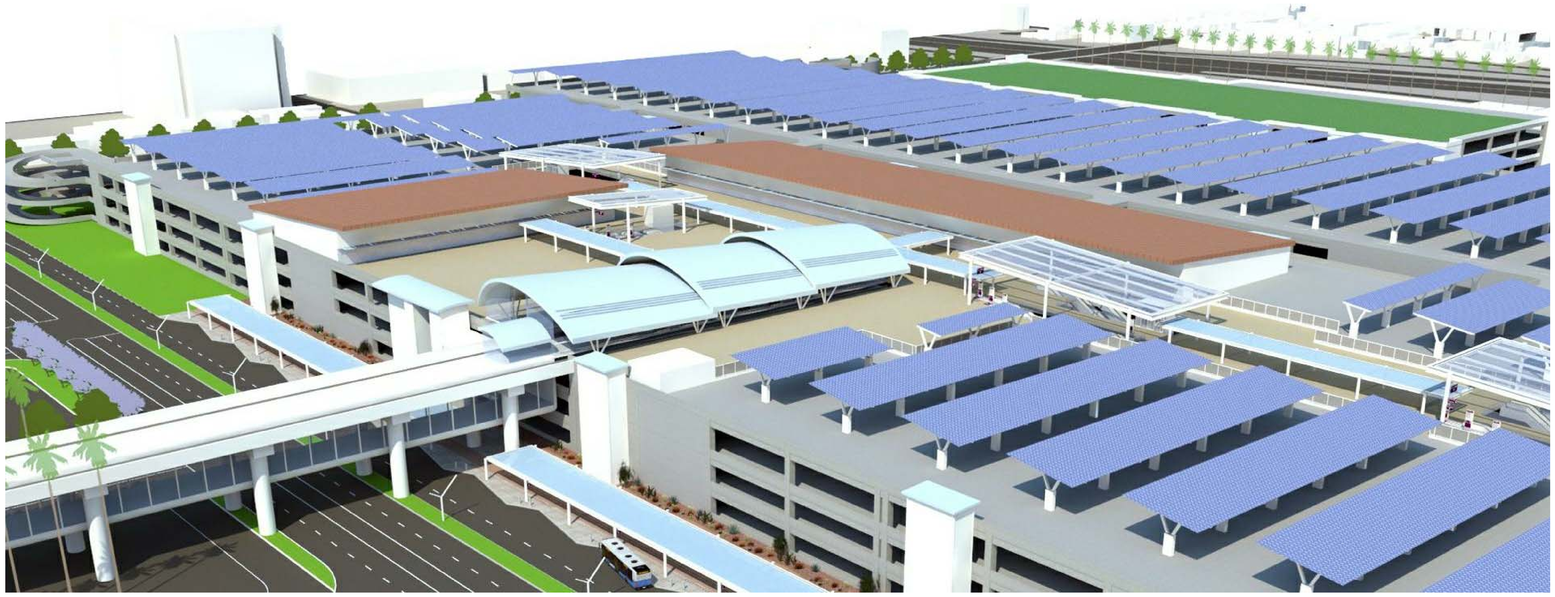
LAX
Los Angeles World Airports

LOS ANGELES INTERNATIONAL AIRPORT CONSOLIDATED RENTAL CAR FACILITY

PROJECT NO. DA4881



NOT FOR CONSTRUCTION

VOLUME 4 OF 5 - BUILDING D - READY/RETURN

(G, S, A, M, P, E, T)

ConRAC 2ND REFINEMENT SUBMITTAL

07/01/2016

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

SHEET INDEX VOLUME 4

NUMBER	NAME	2016-01-15 5% DESIGN SUBMITTAL	2016-02-26 REFINEMENT SUBMITTAL	2016-07-01 2nd REFINEMENT SUBMITTAL
GENERAL				
4-G-001	COVER SHEET	•	•	•
4-G-014	SHEET INDEX VOLUME 4	•	•	•
STRUCTURAL				
4-S-010	READY RETURN LEVEL 1 OVERALL FLOOR PLAN	•	•	•
4-S-020	READY RETURN LEVEL 2 OVERALL FLOOR PLAN	•	•	•
4-S-030	READY RETURN LEVEL 3 OVERALL FLOOR PLAN	•	•	•
4-S-040	READY RETURN LEVEL 4 OVERALL FLOOR PLAN	•	•	•
4-S-111	READY RETURN LEVEL 1 FOUNDATION PLAN	•	•	•
4-S-112	READY RETURN LEVEL 1 FOUNDATION PLAN	•	•	•
4-S-113	READY RETURN LEVEL 1 FOUNDATION PLAN	•	•	•
4-S-114	READY RETURN LEVEL 1 FOUNDATION PLAN	•	•	•
4-S-115	READY RETURN LEVEL 1 FOUNDATION PLAN	•	•	•
4-S-121	READY RETURN LEVEL 2 SLAB PLAN	•	•	•
4-S-122	READY RETURN LEVEL 2 SLAB PLAN	•	•	•
4-S-123	READY RETURN LEVEL 2 SLAB PLAN	•	•	•
4-S-124	READY RETURN LEVEL 2 SLAB PLAN	•	•	•
4-S-125	READY RETURN LEVEL 2 SLAB PLAN	•	•	•
4-S-131	READY RETURN LEVEL 3 SLAB PLAN	•	•	•
4-S-132	READY RETURN LEVEL 3 SLAB PLAN	•	•	•
4-S-133	READY RETURN LEVEL 3 SLAB PLAN	•	•	•
4-S-134	READY RETURN LEVEL 3 SLAB PLAN	•	•	•
4-S-135	READY RETURN LEVEL 3 SLAB PLAN	•	•	•
4-S-141	READY RETURN LEVEL 4 SLAB PLAN	•	•	•
4-S-142	READY RETURN LEVEL 4 SLAB PLAN	•	•	•
4-S-143	READY RETURN LEVEL 4 SLAB PLAN	•	•	•
4-S-144	READY RETURN LEVEL 4 SLAB PLAN	•	•	•
4-S-145	READY RETURN LEVEL 4 SLAB PLAN	•	•	•
4-S-301	READY RETURN WALL ELEVATIONS			•
4-S-302	READY RETURN WALL ELEVATIONS			•
4-S-303	READY RETURN WALL ELEVATIONS			•
4-S-304	READY RETURN WALL ELEVATIONS			•
4-S-305	READY RETURN WALL ELEVATIONS			•
4-S-306	READY RETURN WALL ELEVATIONS			•
4-S-307	READY RETURN WALL ELEVATIONS			•
4-S-401	READY RETURN ATM SLAB PLAN AND SECTIONS	•	•	•
4-S-701	READY RETURN STAIR PLAN AND SECTIONS			•
4-S-702	READY RETURN STAIR PLAN AND SECTIONS			•
ARCHITECTURAL				
4-A-010	READY RETURN LEVEL 1 OVERALL FLOOR PLAN	•	•	•
4-A-020	READY RETURN LEVEL 2 OVERALL FLOOR PLAN	•	•	•
4-A-030	READY RETURN LEVEL 3 OVERALL FLOOR PLAN	•	•	•
4-A-040	READY RETURN LEVEL 4 OVERALL FLOOR PLAN	•	•	•
4-A-111	READY RETURN LEVEL 1 FLOOR PLAN	•	•	•
4-A-112	READY RETURN LEVEL 1 FLOOR PLAN	•	•	•
4-A-113	READY RETURN LEVEL 1 FLOOR PLAN	•	•	•
4-A-114	READY RETURN LEVEL 1 FLOOR PLAN	•	•	•
4-A-115	READY RETURN LEVEL 1 FLOOR PLAN	•	•	•
4-A-121	READY RETURN LEVEL 2 FLOOR PLAN	•	•	•
4-A-122	READY RETURN LEVEL 2 FLOOR PLAN	•	•	•
4-A-123	READY RETURN LEVEL 2 FLOOR PLAN	•	•	•
4-A-124	READY RETURN LEVEL 2 FLOOR PLAN	•	•	•
4-A-125	READY RETURN LEVEL 2 FLOOR PLAN	•	•	•
4-A-131	READY RETURN LEVEL 3 FLOOR PLAN	•	•	•
4-A-132	READY RETURN LEVEL 3 FLOOR PLAN	•	•	•
4-A-133	READY RETURN LEVEL 3 FLOOR PLAN	•	•	•
4-A-134	READY RETURN LEVEL 3 FLOOR PLAN	•	•	•
4-A-135	READY RETURN LEVEL 3 FLOOR PLAN	•	•	•
4-A-141	READY RETURN LEVEL 4 FLOOR PLAN	•	•	•
4-A-142	READY RETURN LEVEL 4 FLOOR PLAN	•	•	•
4-A-143	READY RETURN LEVEL 4 FLOOR PLAN	•	•	•
4-A-144	READY RETURN LEVEL 4 FLOOR PLAN	•	•	•
4-A-145	READY RETURN LEVEL 4 FLOOR PLAN	•	•	•
4-A-301	READY RETURN OVERALL BUILDING ELEVATIONS		•	•
4-A-302	READY RETURN OVERALL BUILDING ELEVATIONS			•
4-A-351	READY RETURN OVERALL BUILDING SECTIONS		•	•
4-A-701	READY RETURN STAIRS			•
4-A-702	READY RETURN STAIRS			•
MECHANICAL				
4-M-001	SHEET INDEX AND LEGENDS			•
4-M-002	MECHANICAL EQUIPMENT SCHEDULE			•
4-M-010	READY/RETURN STORAGE LEVEL 1 OVERALL MECHANICAL FLOOR PLAN		•	•
4-M-020	READY/RETURN STORAGE LEVEL 2 OVERALL MECHANICAL FLOOR PLAN		•	•
4-M-030	READY/RETURN STORAGE LEVEL 3 OVERALL MECHANICAL FLOOR PLAN		•	•
4-M-040	READY/RETURN STORAGE LEVEL 4 OVERALL MECHANICAL FLOOR PLAN	•	•	•
4-M-111	READY/RETURN STORAGE LEVEL 1 MECHANICAL FLOOR PLAN			•
4-M-112	READY/RETURN STORAGE LEVEL 1 MECHANICAL FLOOR PLAN			•
4-M-113	READY/RETURN STORAGE LEVEL 1 MECHANICAL FLOOR PLAN			•
4-M-114	READY/RETURN STORAGE LEVEL 1 MECHANICAL FLOOR PLAN			•
4-M-115	READY/RETURN STORAGE LEVEL 1 MECHANICAL FLOOR PLAN			•
4-M-121	READY/RETURN STORAGE LEVEL 2 MECHANICAL FLOOR PLAN			•
4-M-122	READY/RETURN STORAGE LEVEL 2 MECHANICAL FLOOR PLAN			•
4-M-123	READY/RETURN STORAGE LEVEL 2 MECHANICAL FLOOR PLAN			•
4-M-124	READY/RETURN STORAGE LEVEL 2 MECHANICAL FLOOR PLAN			•
4-M-125	READY/RETURN STORAGE LEVEL 2 MECHANICAL FLOOR PLAN			•
4-M-131	READY/RETURN STORAGE LEVEL 3 MECHANICAL FLOOR PLAN			•
4-M-132	READY/RETURN STORAGE LEVEL 3 MECHANICAL FLOOR PLAN			•
4-M-133	READY/RETURN STORAGE LEVEL 3 MECHANICAL FLOOR PLAN			•
4-M-134	READY/RETURN STORAGE LEVEL 3 MECHANICAL FLOOR PLAN			•
4-M-135	READY/RETURN STORAGE LEVEL 3 MECHANICAL FLOOR PLAN			•
4-M-501	DETAILS			•
4-M-502	DETAILS			•
PLUMBING				
4-P-001	PLUMBING SCHEDULES			•
4-P-010	READY/RETURN LEVEL 1 OVERALL PLUMBING FLOOR PLAN		•	•
4-P-020	READY/RETURN LEVEL 2 OVERALL PLUMBING FLOOR PLAN		•	•
4-P-030	READY/RETURN LEVEL 3 OVERALL PLUMBING FLOOR PLAN		•	•
4-P-040	READY/RETURN LEVEL 4 OVERALL PLUMBING FLOOR PLAN		•	•
4-P-111	READY/RETURN LEVEL 1 PLUMBING FLOOR PLAN		•	•
4-P-112	READY/RETURN LEVEL 1 PLUMBING FLOOR PLAN		•	•
4-P-113	READY/RETURN LEVEL 1 PLUMBING FLOOR PLAN		•	•
4-P-114	READY/RETURN LEVEL 1 PLUMBING FLOOR PLAN		•	•
4-P-115	READY/RETURN LEVEL 1 PLUMBING FLOOR PLAN		•	•
4-P-121	READY/RETURN LEVEL 2 PLUMBING FLOOR PLAN		•	•
4-P-122	READY/RETURN LEVEL 2 PLUMBING FLOOR PLAN		•	•
4-P-123	READY/RETURN LEVEL 2 PLUMBING FLOOR PLAN		•	•
4-P-124	READY/RETURN LEVEL 2 PLUMBING FLOOR PLAN		•	•
4-P-125	READY/RETURN LEVEL 2 PLUMBING FLOOR PLAN		•	•
4-P-131	READY/RETURN LEVEL 3 PLUMBING FLOOR PLAN		•	•
4-P-132	READY/RETURN LEVEL 3 PLUMBING FLOOR PLAN		•	•
4-P-133	READY/RETURN LEVEL 3 PLUMBING FLOOR PLAN		•	•
4-P-134	READY/RETURN LEVEL 3 PLUMBING FLOOR PLAN		•	•

SHEET INDEX VOLUME 4 (CONT.)

NUMBER	NAME	2016-01-15 5% DESIGN SUBMITTAL	2016-02-26 REFINEMENT SUBMITTAL	2016-07-01 2nd REFINEMENT SUBMITTAL
PLUMBING (CONT.)				
4-P-135	READY/RETURN LEVEL 3 PLUMBING FLOOR PLAN		•	•
4-P-141	READY/RETURN LEVEL 4 PLUMBING FLOOR PLAN		•	•
4-P-142	READY/RETURN LEVEL 4 PLUMBING FLOOR PLAN		•	•
4-P-143	READY/RETURN LEVEL 4 PLUMBING FLOOR PLAN		•	•
4-P-144	READY/RETURN LEVEL 4 PLUMBING FLOOR PLAN		•	•
4-P-145	READY/RETURN LEVEL 4 PLUMBING FLOOR PLAN		•	•
4-P-601	READY/RETURN WATER RISER DIAGRAM	•	•	•
4-P-602	READY/RETURN WASTE AND VENT RISER DIAGRAM	•	•	•
4-P-603	READY/RETURN STORM DRAIN RISER DIAGRAM	•	•	•
ELECTRICAL				
4-E-003	OVERALL SINGLE LINE DIAGRAM		•	•
4-E-004	RAC READY/RETURN EMERGENCY SINGLE LINE DIAGRAM TR-RAC/EVP1		•	•
4-E-005	RAC READY/RETURN EMERGENCY SINGLE LINE DIAGRAM TR-RAC/EVP2		•	•
4-E-006	RAC READY/RETURN BUILDING SINGLE LINE DIAGRAM TR-RAC/EVP1 & TR-RAC/EVP2		•	•
4-E-007	SWITCHBOARD SECTIONS		•	•
4-E-008	LIGHTING FIXTURE SCHEDULES		•	•
4-E-010	ELECTRICAL SITE PLAN		•	•
4-E-020	READY/RETURN LEVEL 2 OVERALL ELECTRICAL FLOOR PLAN		•	•
4-E-030	READY/RETURN LEVEL 3 OVERALL ELECTRICAL FLOOR PLAN		•	•
4-E-040	READY/RETURN LEVEL 4 OVERALL ELECTRICAL FLOOR PLAN		•	•
4-E-111	BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 1		•	•
4-E-112	BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 2		•	•
4-E-113	BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 3		•	•
4-E-114	BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 4		•	•
4-E-115	BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 5		•	•
4-E-121	BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 1		•	•
4-E-122	BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 2		•	•
4-E-123	BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 3		•	•
4-E-124	BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 4		•	•
4-E-125	BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 5		•	•
4-E-131	BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 1		•	•
4-E-132	BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 2		•	•
4-E-133	BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 3		•	•
4-E-134	BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 4		•	•
4-E-125	BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 5		•	•
4-E-404	ENLARGED ELECTRICAL ROOMS		•	•
4-E-405	ENLARGED ELECTRICAL ROOMS		•	•
4-EL-010	READY/RETURN LEVEL 1 OVERALL LIGHTING PLAN		•	•
4-EL-020	READY/RETURN LEVEL 2 OVERALL LIGHTING PLAN		•	•
4-EL-030	READY/RETURN LEVEL 3 OVERALL LIGHTING PLAN		•	•
4-EL-040	READY/RETURN LEVEL 4 OVERALL ELECTRICAL FLOOR PLAN		•	•
TELECOMMUNICATIONS				
4-T-001	TELECOM LEGEND, NOTES, AND ABBREVIATIONS			•
4-T-010	READY / RETURN TELECOM LEVEL 1 OVERALL FLOOR PLAN	•	•	•
4-T-020	READY / RETURN TELECOM LEVEL 2 OVERALL FLOOR PLAN	•	•	•
4-T-030	READY / RETURN TELECOM LEVEL 3 OVERALL FLOOR PLAN	•	•	•
4-T-040	READY / RETURN TELECOM LEVEL 4 OVERALL FLOOR PLAN	•	•	•
4-T-111	READY / RETURN TELECOM LEVEL 1 FLOOR PLAN			•
4-T-112	READY / RETURN TELECOM LEVEL 1 FLOOR PLAN			•
4-T-113	READY / RETURN TELECOM LEVEL 1 FLOOR PLAN			•
4-T-114	READY / RETURN TELECOM LEVEL 1 FLOOR PLAN			•
4-T-115	READY / RETURN TELECOM LEVEL 1 FLOOR PLAN			•
4-T-121	READY / RETURN TELECOM LEVEL 2 FLOOR PLAN			•
4-T-122	READY / RETURN TELECOM LEVEL 2 FLOOR PLAN			•
4-T-123	READY / RETURN TELECOM LEVEL 2 FLOOR PLAN			•
4-T-124	READY / RETURN TELECOM LEVEL 2 FLOOR PLAN			•
4-T-125	READY / RETURN TELECOM LEVEL 2 FLOOR PLAN			•
4-T-131	READY / RETURN TELECOM LEVEL 3 FLOOR PLAN			•
4-T-132	READY / RETURN TELECOM LEVEL 3 FLOOR PLAN			•
4-T-133	READY / RETURN TELECOM LEVEL 3 FLOOR PLAN			•
4-T-134	READY / RETURN TELECOM LEVEL 3 FLOOR PLAN			•
4-T-135	READY / RETURN TELECOM LEVEL 3 FLOOR PLAN			•
4-T-141	READY / RETURN TELECOM LEVEL 4 FLOOR PLAN			•
4-T-142	READY / RETURN TELECOM LEVEL 4 FLOOR PLAN			•
4-T-143	READY / RETURN TELECOM LEVEL 4 FLOOR PLAN			•
4-T-144	READY / RETURN TELECOM LEVEL 4 FLOOR PLAN			•
4-T-145	READY / RETURN TELECOM LEVEL 4 FLOOR PLAN			•
4-TY-001	SECURITY LEGEND, NOTES, AND ABBREVIATIONS			•
4-TY-010	READY / RETURN SECURITY LEVEL 1 OVERALL FLOOR PLAN		•	•
4-TY-020	READY / RETURN SECURITY LEVEL 2 OVERALL FLOOR PLAN		•	•
4-TY-030	READY / RETURN SECURITY LEVEL 3 OVERALL FLOOR PLAN		•	•
4-TY-040	READY / RETURN SECURITY LEVEL 4 OVERALL FLOOR PLAN		•	•
4-TY-111	READY / RETURN SECURITY LEVEL 1 FLOOR PLAN			•
4-TY-112	READY / RETURN SECURITY LEVEL 1 FLOOR PLAN			•
4-TY-113	READY / RETURN SECURITY LEVEL 1 FLOOR PLAN			•
4-TY-114	READY / RETURN SECURITY LEVEL 1 FLOOR PLAN			•
4-TY-115	READY / RETURN SECURITY LEVEL 1 FLOOR PLAN			•
4-TY-121	READY / RETURN SECURITY LEVEL 2 FLOOR PLAN			•
4-TY-122	READY / RETURN SECURITY LEVEL 2 FLOOR PLAN			•
4-TY-123	READY / RETURN SECURITY LEVEL 2 FLOOR PLAN			•
4-TY-124	READY / RETURN SECURITY LEVEL 2 FLOOR PLAN			•
4-TY-125	READY / RETURN SECURITY LEVEL 2 FLOOR PLAN			•
4-TY-131	READY / RETURN SECURITY LEVEL 3 FLOOR PLAN			•
4-TY-132	READY / RETURN SECURITY LEVEL 3 FLOOR PLAN			•
4-TY-133	READY / RETURN SECURITY LEVEL 3 FLOOR PLAN			•
4-TY-134	READY / RETURN SECURITY LEVEL 3 FLOOR PLAN			•
4-TY-135	READY / RETURN SECURITY LEVEL 3 FLOOR PLAN			•
4-TY-141	READY / RETURN SECURITY LEVEL 4 FLOOR PLAN			•
4-TY-142	READY / RETURN SECURITY LEVEL 4 FLOOR PLAN			•
4-TY-143	READY / RETURN SECURITY LEVEL 4 FLOOR PLAN			•
4-TY-144	READY / RETURN SECURITY LEVEL 4 FLOOR PLAN			•
4-TY-145	READY / RETURN SECURITY LEVEL 4 FLOOR PLAN			•

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: NTS
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
SHEET INDEX VOLUME 4

SHEET NO.
4-G-014
SHEET OF

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1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL FLOOR PLAN

SCALE: 1" = 60'

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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Lo : Angele : International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

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REVISIONS:

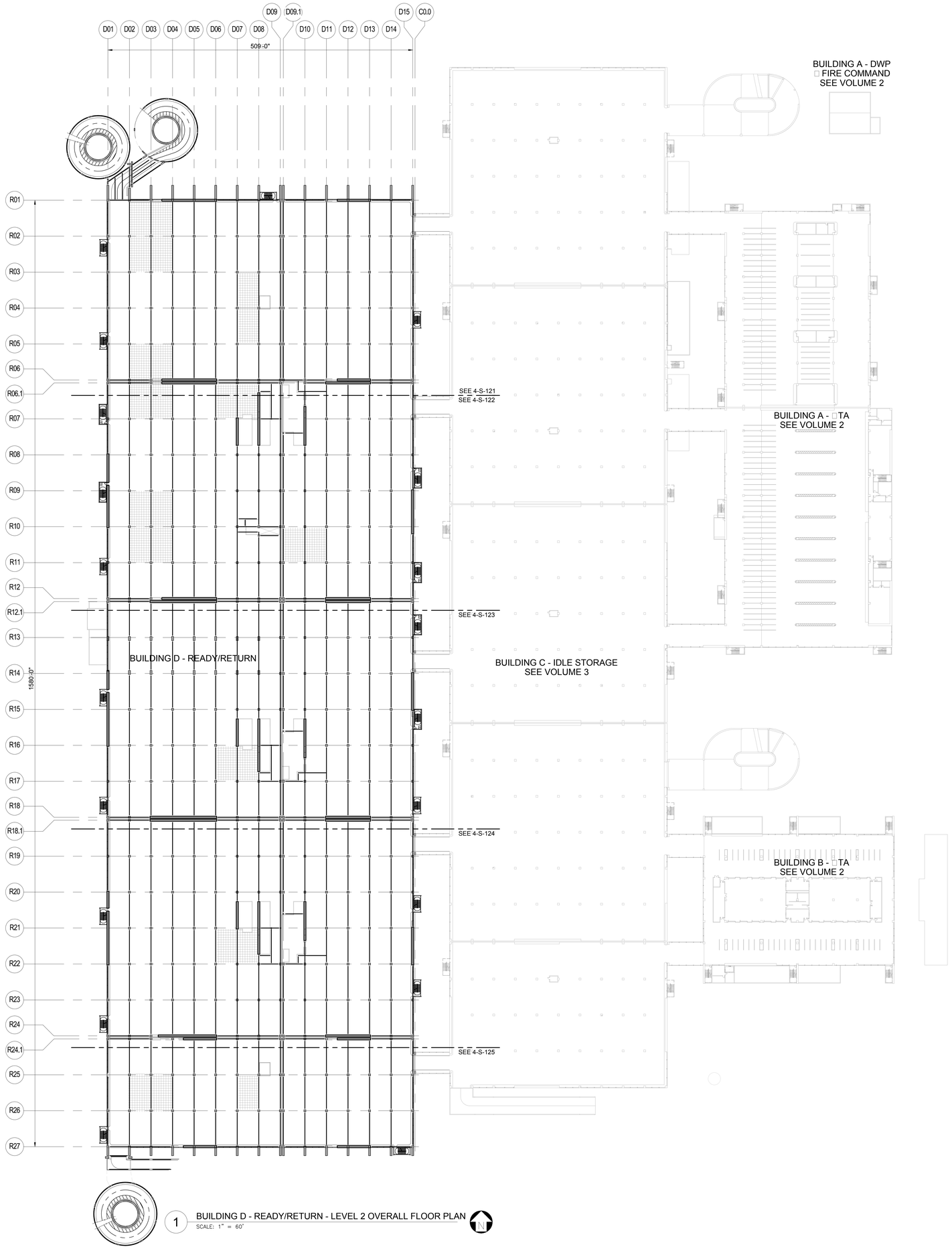
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

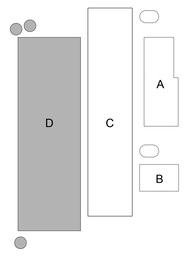
SHEET TITLE:
READY/ RETURN
LEVEL 1
OVERALL
FLOOR PLAN

SHEET NO.
4-S-010

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL FLOOR PLAN
SCALE: 1" = 60'



KEYPLAN

Train Systems
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ONT ANA PMD LAX

REVISIONS:

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SCALE: 1" = 60'
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

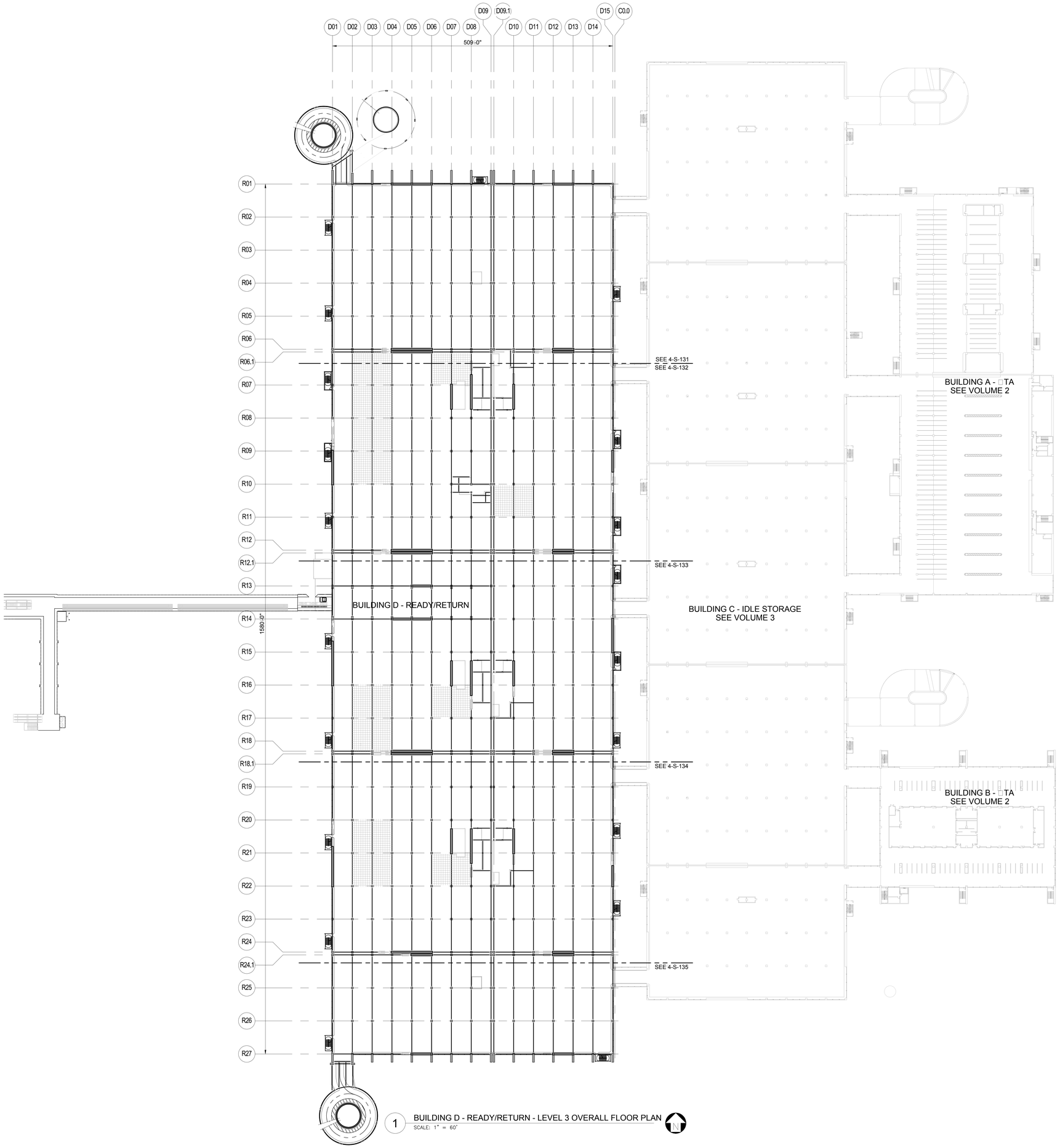
READY/ RETURN
LEVEL 2
OVERALL
FLOOR PLAN

SHEET NO.

4-S-020

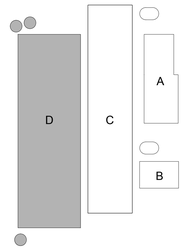
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 OVERALL FLOOR PLAN

SCALE: 1" = 60'



KEYPLAN

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SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

READY/ RETURN
LEVEL 3
OVERALL
FLOOR PLAN

SHEET NO.

4-S-030

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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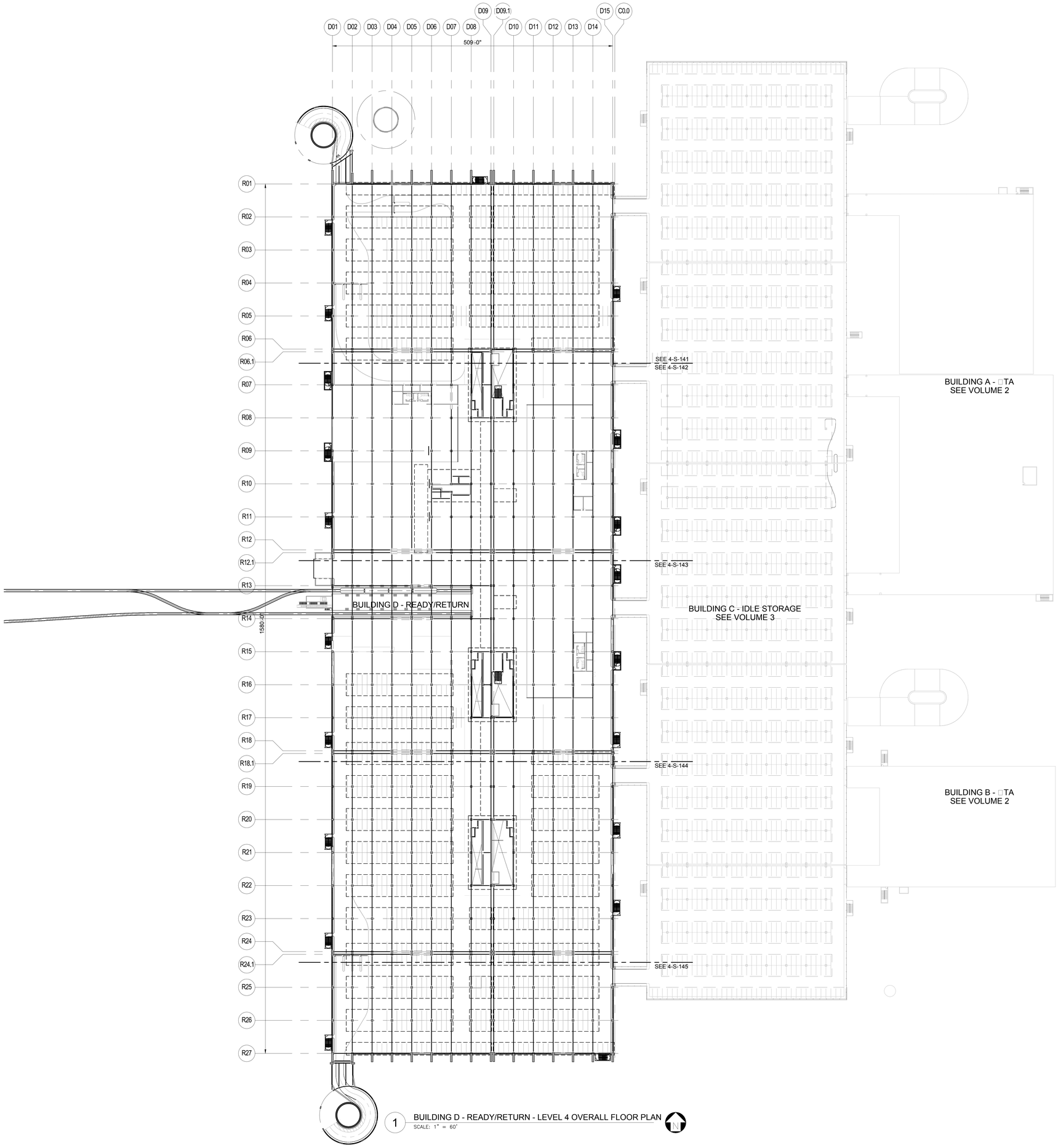
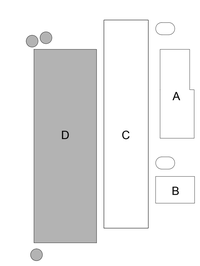


1 BUILDING D - READY/RETURN - LEVEL 4 OVERALL FLOOR PLAN

SCALE: 1" = 60'



KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

READY/ RETURN LEVEL 4 OVERALL FLOOR PLAN

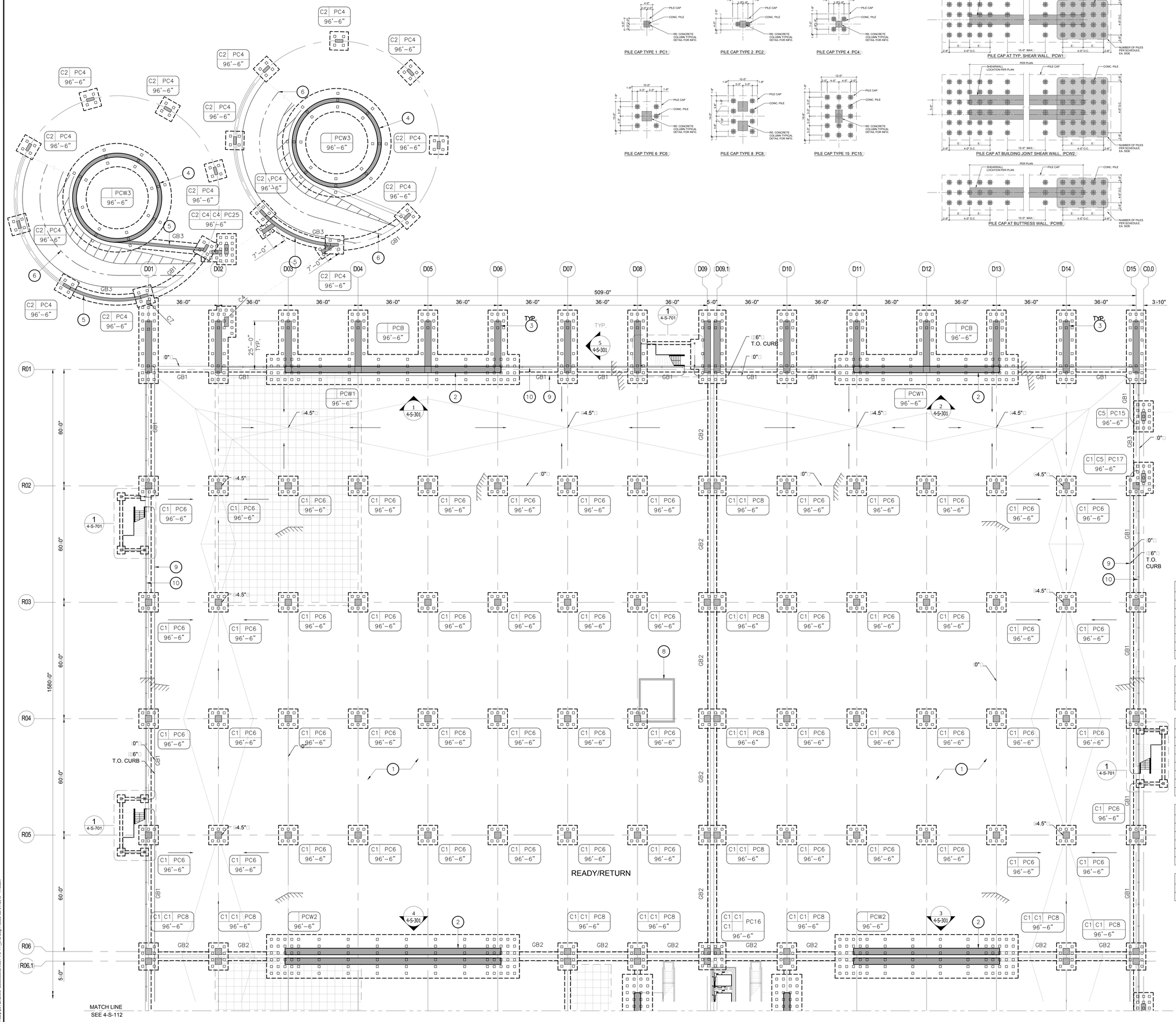
SHEET NO.

4-S-040

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\Urban - Work Space_Models\urban - corps-part\arch\dwg_MODS\MODS\DA4881-4-S-040.LAD.dwg, Plotted: Jul 01, 2016 - 11:26am



1 D1 BUILDING - READY/RETURN - LEVEL 1 FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR
   -LEVEL 1 □98'-6"
2. □X"□ ↕ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
3. RE: PLAN FOR SLAB THICKNESS, REINFORCING IS AS FOLLOWS:
   - -6" SLAB ON GRADE □5□ 16" O.C., EACH WAY
   - -8" SLAB ON GRADE □5□ 12" O.C., EACH WAY
   - -12" SLAB ON GRADE □5□ 16" O.C., TOP □ BOT. EACH WAY
4. SLAB SHALL BE SUPPORTED ON BASE MATERIAL PER RE□UIREMENTS IN GEOTECHNICAL REPORT.
5. □PC□□INDICATES PILE CAP TYPE, RE: PLANS SCHEDULE GEOTECHNICAL REPORT WAS NOT AVAILABLE AT HE TIME OF SUBMITTING THESE DRAWINGS. THE NUMBER OF PILES, SHAPE, SIZE AND PILE CAP SIZE ARE ARBITRARY. THESE DETAILS SHALL BE REVISED PER GEOTECHNICAL RECOMMENDATIONS
6. □GB□□□INDICATES GRADE BEAM TYPE, RE: PLANS SCHEDULE
7. □C□□INDICATES CONC. COLUMN TYPE, RE: PLANS SCHEDULE
8. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
9. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
10. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
11. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
12. RE: ARCHITECTURAL AND MECHANICAL DRAWINGS FOR CURBS, HOUSEKEEPING PADS, AND BOLLARD LOCATIONS.
13. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
14. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. 6" THICK SLAB ON GRADE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. NOT USED
8. 8" THICK FULL HEIGHT CMU WALL
9. 6" HIGH CONC. CURB
10. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — C# | PC# — XX'-XX" — PILE CAP TYPE

CONT. WALL PILE CAP — PCW — XX'-XX" — TOP OF PILE CAP; PILE CAP TYPE; TOP OF PILE CAP

PLAN LEGEND:

- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES CHANGE IN SLOPE IN SLAB.
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS SEE SCHEDULE FOR SIZE
- INDICATES HSS STAIRS COLUMN

CONCRETE COLUMN SCHEDULE

C1	40"X40"	2" EXTRA COVER FOR COLLISION PROTECTION
C2	22"X52"	2" EXTRA COVER FOR COLLISION PROTECTION
C3	40"X80"	2" EXTRA COVER FOR COLLISION PROTECTION
C4	28"X64"	2" EXTRA COVER FOR COLLISION PROTECTION
C5	28"X72"	2" EXTRA COVER FOR COLLISION PROTECTION
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GRADE BEAM SCHEDULE.

GB1	36"X36"
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GB4	18"X18"

COLUMN PILE CAP SCHEDULE

TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1
PC2	7'-0"X4'-0"X3'-0"	2
PC4	7'-0"X7'-0"X3'-6"	4
PC6	10'-0"X10'-0"X4'-0"	6
PC8	14'-0"X10'-0"X4'-0"	8
PC15	16'-6"X10'-0"X4'-6"	15
PC16	16'-6"X16'-0"X4'-6"	16

SHEAR WALL PILE CAP SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	NO OF PILES □ END
PCB	13'-0"	RE□PLAN	6'-0"	15
PCW1	17'-0"	RE□PLAN	6'-0"	20
PCW2	25'-0"	RE□PLAN	6'-0"	30
PCW3	12'-0"	RE□PLAN	6'-0"	24
PCW4	6'-0"	RE□PLAN	4'-0"	14

PILE SCHEDULE

SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo□Angele□International Airport

APPROVED BY: CHIEF AIRPORTS ENGINEER

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS: MARK | DATE | DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 1 FOUNDATION PLAN

SHEET NO.
4-S-111
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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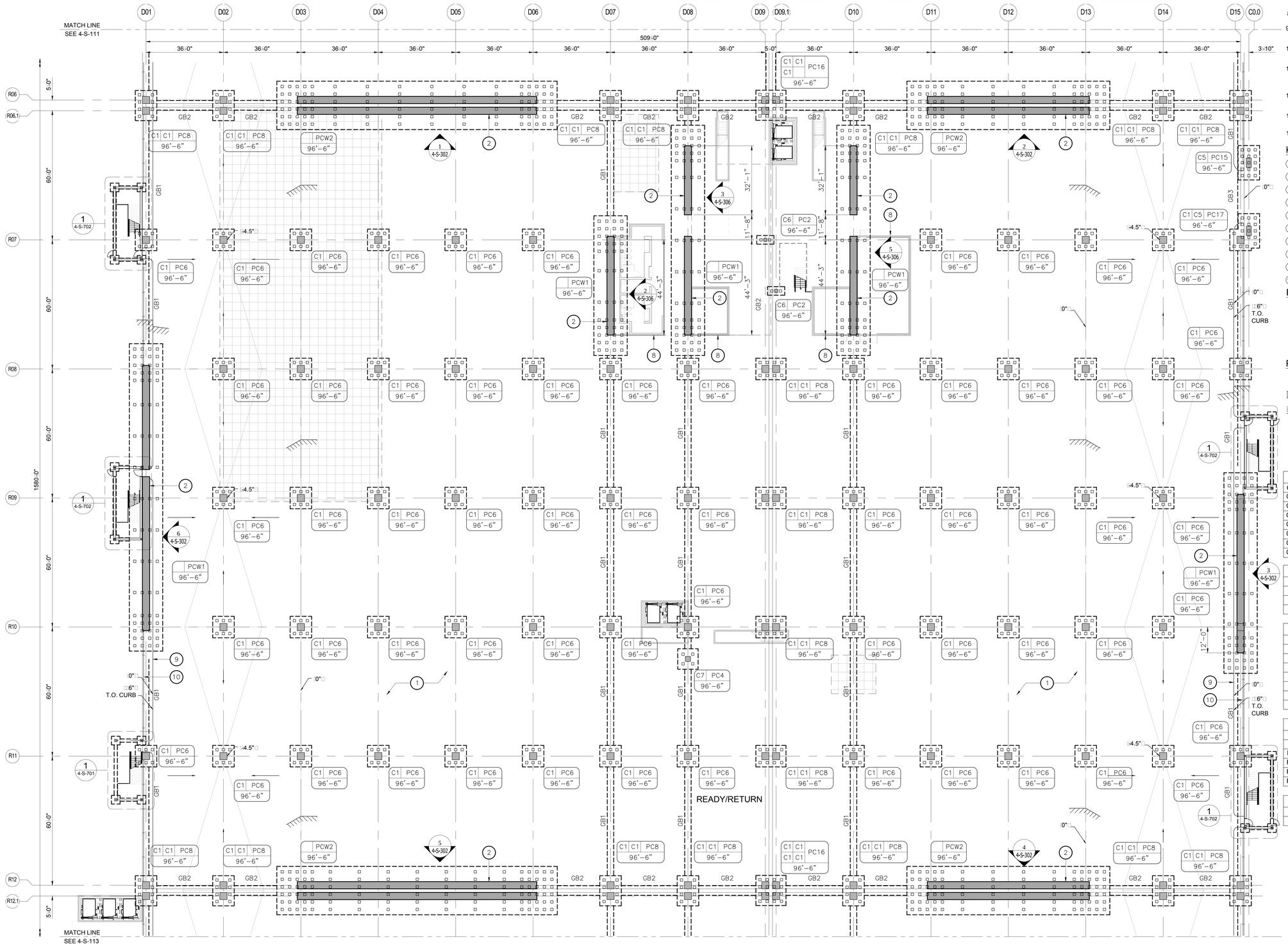
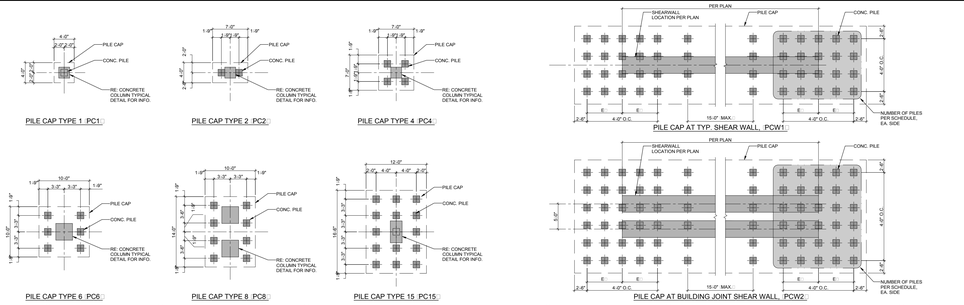


1 D2 BUILDING - READY/RETURN - LEVEL 1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"



PLAN NOTES:

1. TOP OF FINISH FLOOR
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   - -8" SLAB ON GRADE □5□ 12" O.C., EACH WAY
   - -12" SLAB ON GRADE □5□ 16" O.C., TOP □ BOT. EACH WAY
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7. □C□□INDICATES CONC. COLUMN TYPE, RE: PLANS SCHEDULE
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KEY PLAN:

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4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
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7. NOT USED
8. 8" THICK FULL HEIGHT CMU WALL
9. 6" HIGH CONC. CURB
10. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — C# | PC# — XX'-XX" — PILE CAP TYPE
CONT. WALL PILE CAP — PCW — XX'-XX" — TOP OF PILE CAP; PILE CAP TYPE; TOP OF PILE CAP

PLAN LEGEND:

- INDICATES CHANGE IN SLAB ELEVATION
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CONCRETE COLUMN SCHEDULE

C1	40"X40"	2" EXTRA COVER FOR COLLISION PROTECTION
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COLUMN PILE CAP SCHEDULE

TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1
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PC8	14'-0"X10'-0"X4'-0"	8
PC15	16'-6"X10'-0"X4'-6"	15
PC16	16'-6"X16'-0"X4'-6"	16

SHEAR WALL PILE CAP SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	NO OF PILES □ END
PCB	13'-0"	RE: PLAN	6'-0"	15
PCW1	17'-0"	RE: PLAN	6'-0"	20
PCW2	25'-0"	RE: PLAN	6'-0"	30
PCW3	12'-0"	RE: PLAN	6'-0"	24
PCW4	6'-0"	RE: PLAN	4'-0"	14

PILE SCHEDULE

SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo□Angele□International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

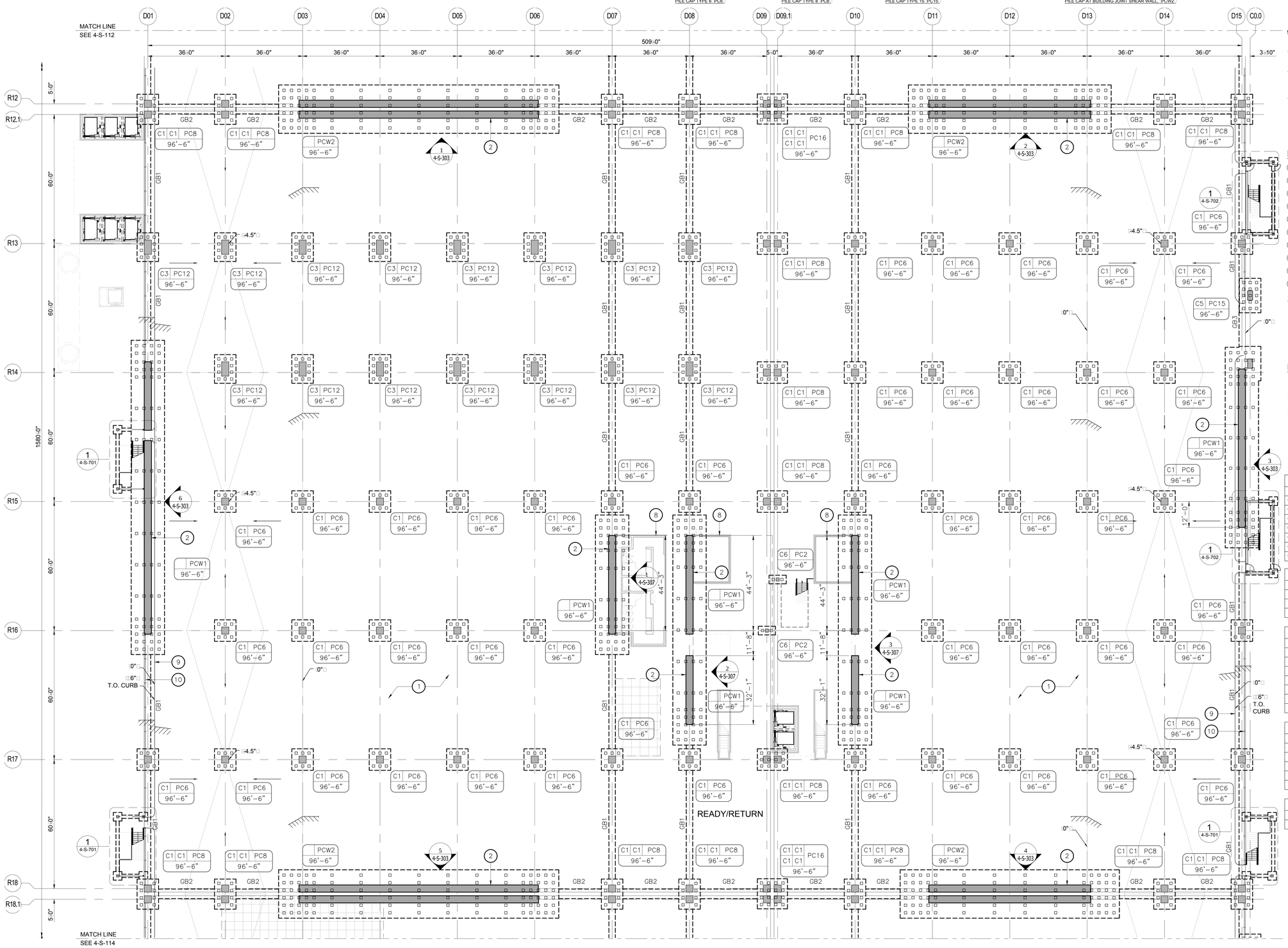
REVISIONS: MARK | DATE | DESCRIPTION

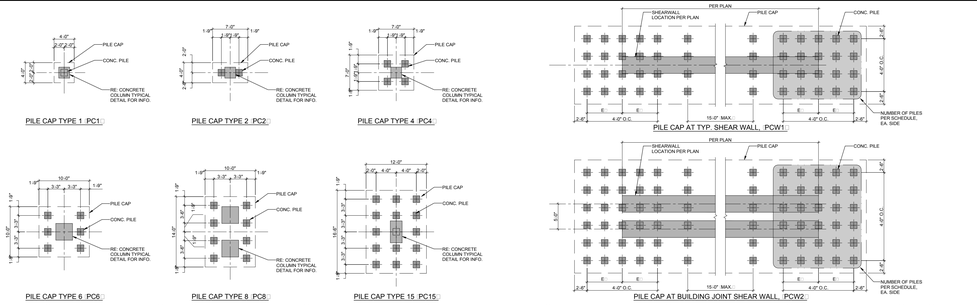
PROJ NO: DA4881
SCALE: 1/16" □1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 1 FOUNDATION PLAN

SHEET NO.
4-S-112
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING





PLAN NOTES:

1. TOP OF FINISH FLOOR
   -LEVEL 1 □98'-6"
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KEY PLAN:

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7. NOT USED
8. 8" THICK FULL HEIGHT CMU WALL
9. 6" HIGH CONC. CURB
10. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — C# | PC# — XX'-XX" — PILE CAP TYPE; TOP OF PILE CAP

CONT. WALL PILE CAP — PCW — XX'-XX" — PILE CAP TYPE; TOP OF PILE CAP

PLAN LEGEND:

- INDICATES CHANGE IN SLAB ELEVATION
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CONCRETE COLUMN SCHEDULE

C1	40"X40"	2" EXTRA COVER FOR COLLISION PROTECTION
C2	22"X52"	2" EXTRA COVER FOR COLLISION PROTECTION
C3	40"X80"	2" EXTRA COVER FOR COLLISION PROTECTION
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GRADE BEAM SCHEDULE.

GB1	36"X36"
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COLUMN PILE CAP SCHEDULE

TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1
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PC8	14'-0"X10'-0"X4'-0"	8
PC15	16'-6"X10'-0"X4'-6"	15
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SHEAR WALL PILE CAP SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	NO OF PILES □ END
PCB	13'-0"	RE: PLAN	6'-0"	15
PCW1	17'-0"	RE: PLAN	6'-0"	20
PCW2	25'-0"	RE: PLAN	6'-0"	30
PCW3	12'-0"	RE: PLAN	6'-0"	24
PCW4	6'-0"	RE: PLAN	4'-0"	14

PILE SCHEDULE

SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"

1 D3 BUILDING - READY/RETURN - LEVEL 1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

Tram Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo□Angele□International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

CONE PMD LAWA LAX

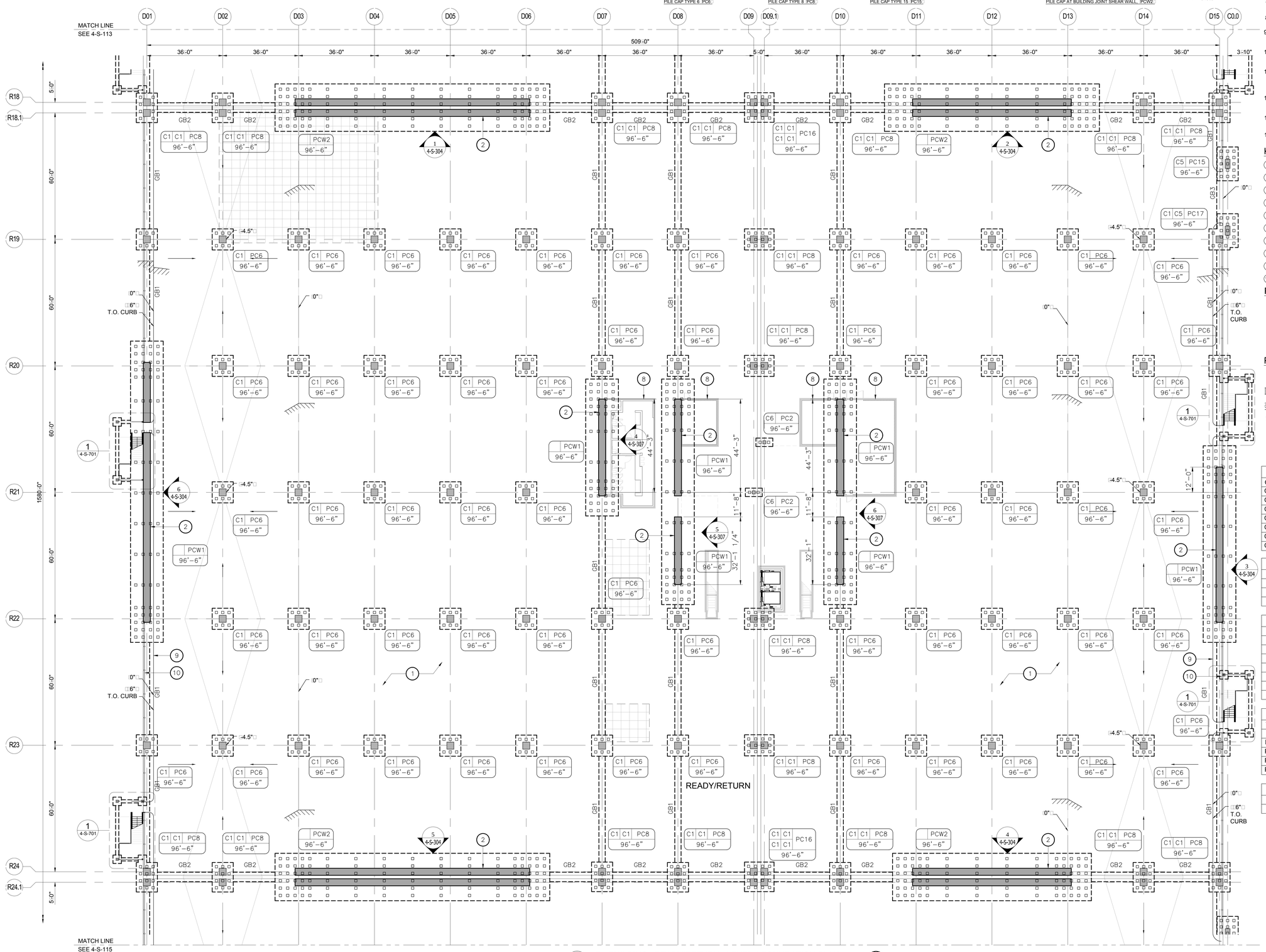
REVISIONS: MARK DATE DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 1 FOUNDATION PLAN

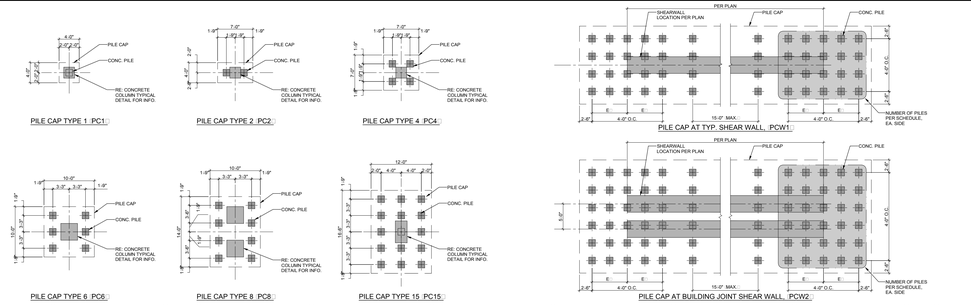
SHEET NO.
4-S-113
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D4 BUILDING - READY/RETURN - LEVEL 1 FOUNDATION PLAN

SCALE: 1/16" = 1'-0"



PLAN NOTES:

1. TOP OF FINISH FLOOR
   -LEVEL 1 □98'-6"
2. "X"□ ◆ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
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PLAN LEGEND:

COLUMN TYPE — C# | PC# — XX'-XX" — PILE CAP TYPE

CONT. WALL PILE CAP — PCW — XX'-XX" — TOP OF PILE CAP; PILE CAP TYPE; TOP OF PILE CAP

PLAN LEGEND:

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C3	40"X80"	2" EXTRA COVER FOR COLLISION PROTECTION
C4	28"X64"	2" EXTRA COVER FOR COLLISION PROTECTION
C5	28"X72"	2" EXTRA COVER FOR COLLISION PROTECTION
C6	18"X18"	
C7	28"X28"	2" EXTRA COVER FOR COLLISION PROTECTION
C8	12"X12"	2" EXTRA COVER FOR COLLISION PROTECTION

GRADE BEAM SCHEDULE.

GB1	36"X36"
GB2	54"X36"
GB3	36"X60"
GB4	18"X18"

COLUMN PILE CAP SCHEDULE

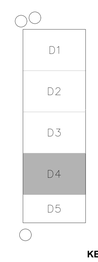
TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1
PC2	7'-0"X4'-0"X3'-0"	2
PC4	7'-0"X7'-0"X3'-6"	4
PC6	10'-0"X10'-0"X4'-0"	6
PC8	14'-0"X10'-0"X4'-0"	8
PC15	16'-6"X10'-0"X4'-6"	15
PC16	16'-6"X16'-0"X4'-6"	16

SHEAR WALL PILE CAP SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	NO OF PILES □ END
PCB	13'-0"	RE: PLAN	6'-0"	15
PCW1	17'-0"	RE: PLAN	6'-0"	20
PCW2	25'-0"	RE: PLAN	6'-0"	30
PCW3	12'-0"	RE: PLAN	6'-0"	24
PCW4	6'-0"	RE: PLAN	4'-0"	14

PILE SCHEDULE

SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"



KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594.6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

LAWA ONE PMD LAX

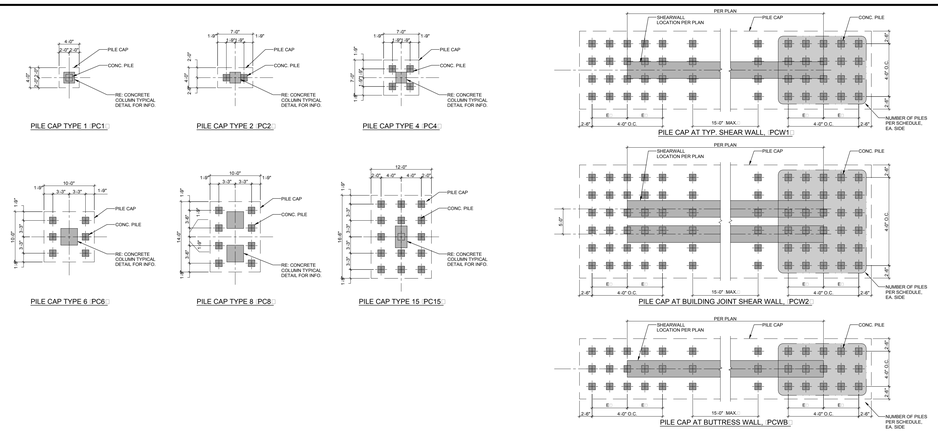
REVISIONS: MARK | DATE | DESCRIPTION

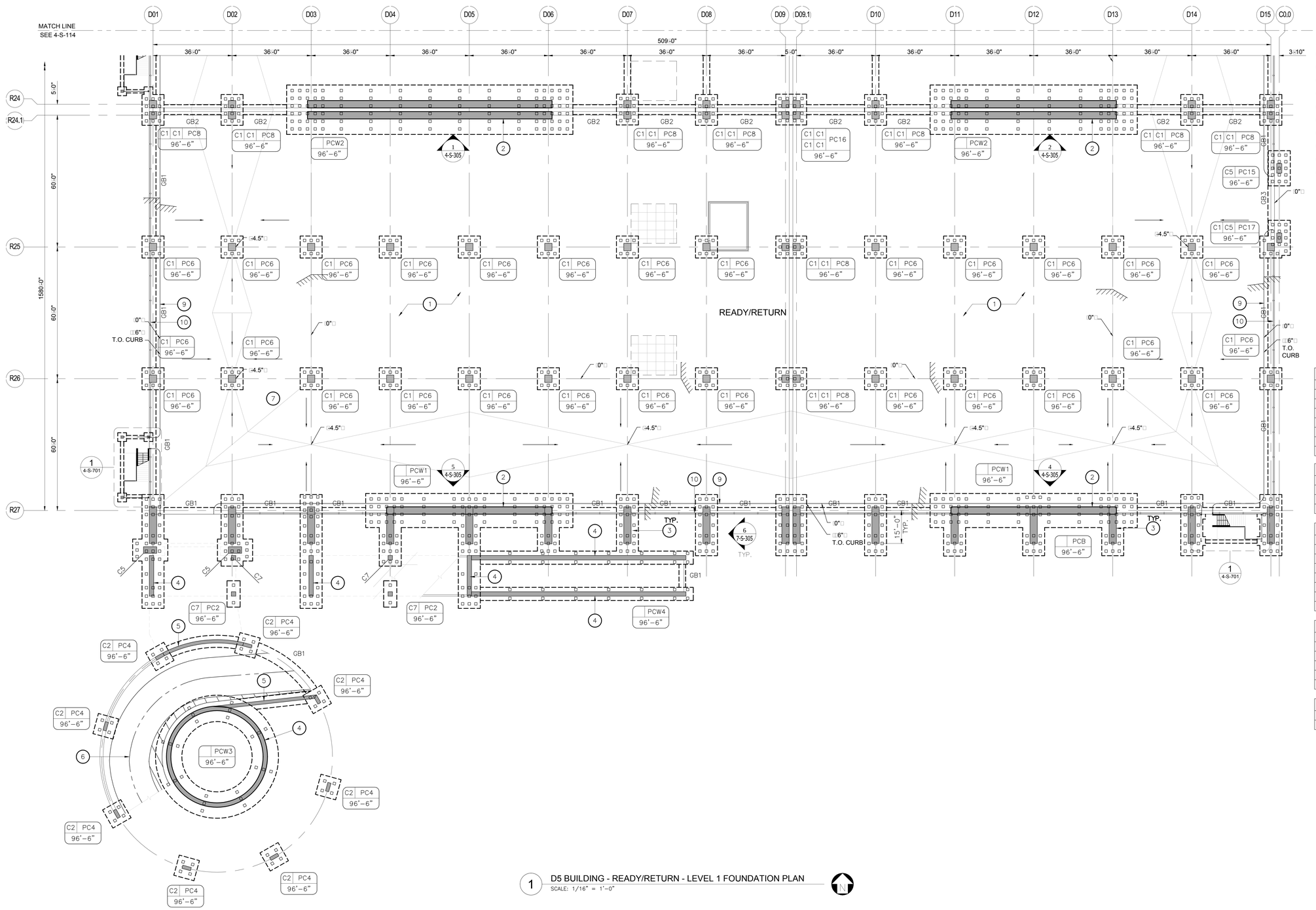
PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 1 FOUNDATION PLAN

SHEET NO.
4-S-114
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING





PLAN NOTES:

1. TOP OF FINISH FLOOR
   -LEVEL 1 □98'-6"
2. "X"□ ⚡ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
3. RE: PLAN FOR SLAB THICKNESS, REINFORCING IS AS FOLLOWS:
   - -6" SLAB ON GRADE □5□ 16" O.C., EACH WAY
   - -8" SLAB ON GRADE □5□ 12" O.C., EACH WAY
   - -12" SLAB ON GRADE □5□ 16" O.C., TOP □ BOT. EACH WAY
4. SLAB SHALL BE SUPPORTED ON BASE MATERIAL PER RE□UIREMENTS IN GEOTECHNICAL REPORT.
5. □PC□□INDICATES PILE CAP TYPE, RE: PLANS SCHEDULE GEOTECHNICAL REPORT WAS NOT AVAILABLE AT HE TIME OF SUBMITTING THESE DRAWINGS. THE NUMBER OF PILES, SHAPE, SIZE AND PILE CAP SIZE ARE ARBITRARY. THESE DETAILS SHALL BE REVISED PER GEOTECHNICAL RECOMMENDATIONS
6. □GB□□□INDICATES GRADE BEAM TYPE, RE: PLANS SCHEDULE
7. □C□□INDICATES CONC. COLUMN TYPE, RE: PLANS SCHEDULE
8. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
9. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
10. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
11. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
12. RE: ARCHITECTURAL AND MECHANICAL DRAWINGS FOR CURBS, HOUSEKEEPING PADS, AND BOLLARD LOCATIONS.
13. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
14. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. 6" THICK SLAB ON GRADE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. NOT USED
8. 8" THICK FULL HEIGHT CMU WALL
9. 6" HIGH CONC. CURB
10. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — PILE CAP TYPE (C# | PC#, XX'-XX")

CONT. WALL PILE CAP — TOP OF PILE CAP (PCW, XX'-XX"); PILE CAP TYPE; TOP OF PILE CAP

PLAN LEGEND:

- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES CHANGE IN SLOPE IN SLAB.
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS SEE SCHEDULE FOR SIZE
- INDICATES HSS STAIRS COLUMN

CONCRETE COLUMN SCHEDULE

C1	40"X40"	2" EXTRA COVER FOR COLLISION PROTECTION
C2	22"X52"	2" EXTRA COVER FOR COLLISION PROTECTION
C3	40"X80"	2" EXTRA COVER FOR COLLISION PROTECTION
C4	28"X64"	2" EXTRA COVER FOR COLLISION PROTECTION
C5	28"X72"	2" EXTRA COVER FOR COLLISION PROTECTION
C6	18"X18"	
C7	28"X28"	2" EXTRA COVER FOR COLLISION PROTECTION
C8	12"X12"	2" EXTRA COVER FOR COLLISION PROTECTION

GRADE BEAM SCHEDULE.

GB1	36"X36"
GB2	54"X36"
GB3	36"X60"
GB4	18"X18"

COLUMN PILE CAP SCHEDULE

TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1
PC2	7'-0"X4'-0"X3'-0"	2
PC4	7'-0"X7'-0"X3'-6"	4
PC6	10'-0"X10'-0"X4'-0"	6
PC8	14'-0"X10'-0"X4'-0"	8
PC15	16'-6"X10'-0"X4'-6"	15
PC16	16'-6"X16'-0"X4'-6"	16

SHEAR WALL PILE CAP SCHEDULE

TYPE	WIDTH	LENGTH	DEPTH	NO OF PILES □ END
PCB	13'-0"	RE: PLAN	6'-0"	15
PCW1	17'-0"	RE: PLAN	6'-0"	20
PCW2	25'-0"	RE: PLAN	6'-0"	30
PCW3	12'-0"	RE: PLAN	6'-0"	24
PCW4	6'-0"	RE: PLAN	4'-0"	14

PILE SCHEDULE

SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"

1 D5 BUILDING - READY/RETURN - LEVEL 1 FOUNDATION PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo□Angele□International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" □1-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 1 FOUNDATION PLAN

SHEET NO.
4-S-115
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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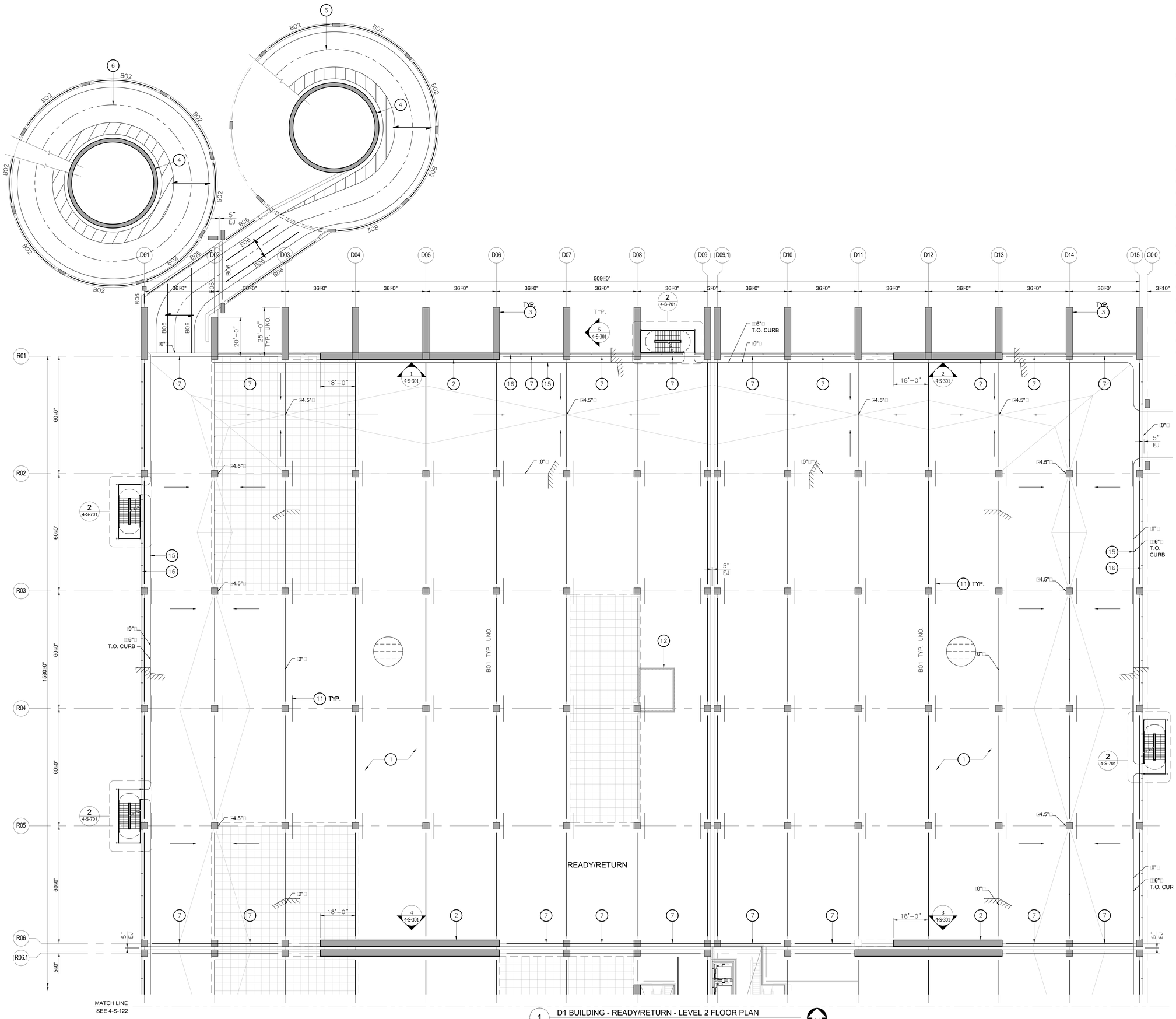


1 D1 BUILDING - READY/RETURN - LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 2 □ 115'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5 □ 14" O.C. AT MID DEPTH □ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8□6 CHORD REINFORCEMENT.
11. ADDITIONAL 6□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH□
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562: 594-6974
FAX: 562: 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo□Angele□International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" □ 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-S-121
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 2 115'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

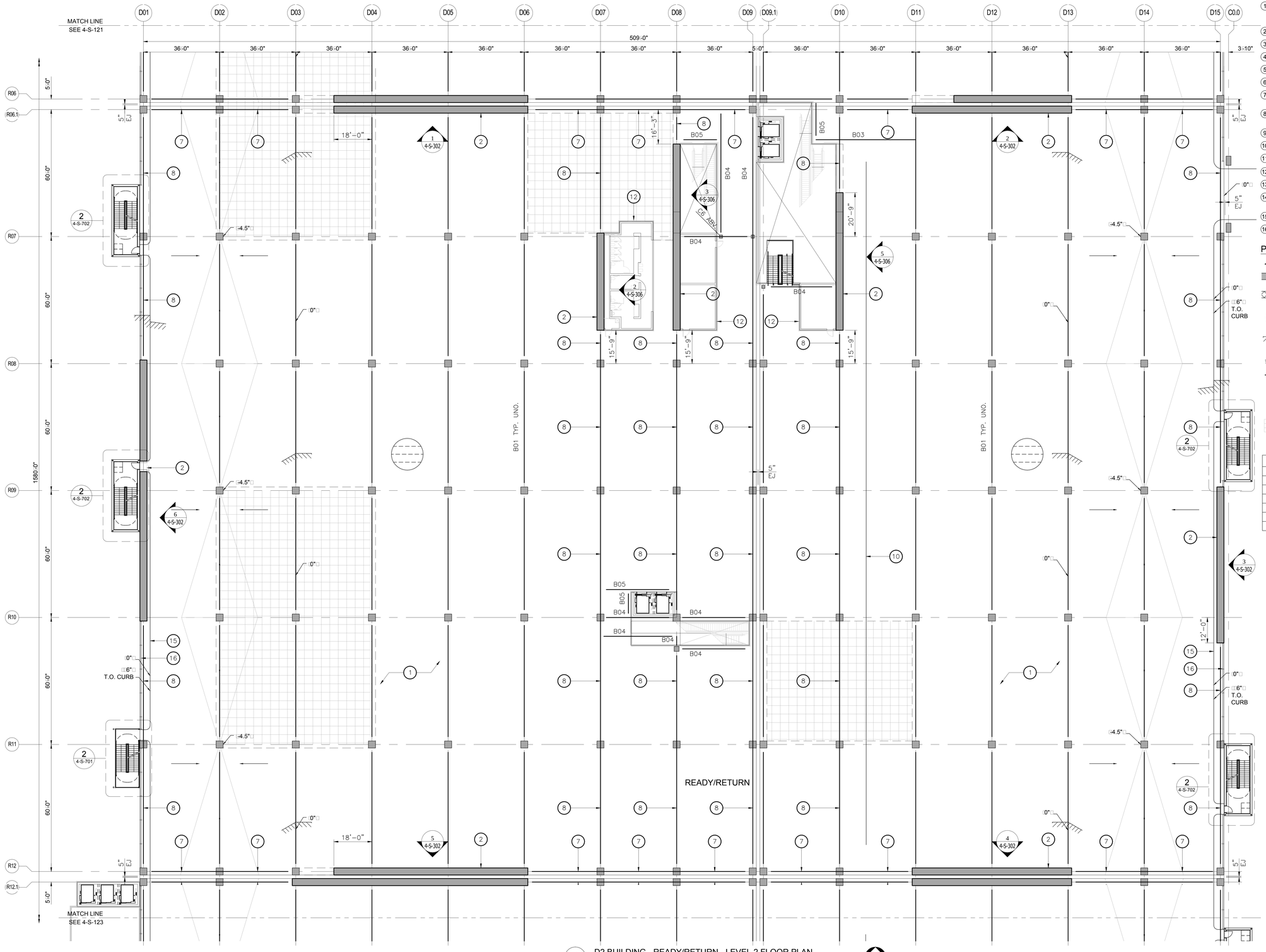
1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"



1 D2 BUILDING - READY/RETURN - LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

Tram Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

REVISIONS: MARK DATE DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 2 FLOOR PLAN

SHEET NO.
4-S-122
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 2 115'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. "B" INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

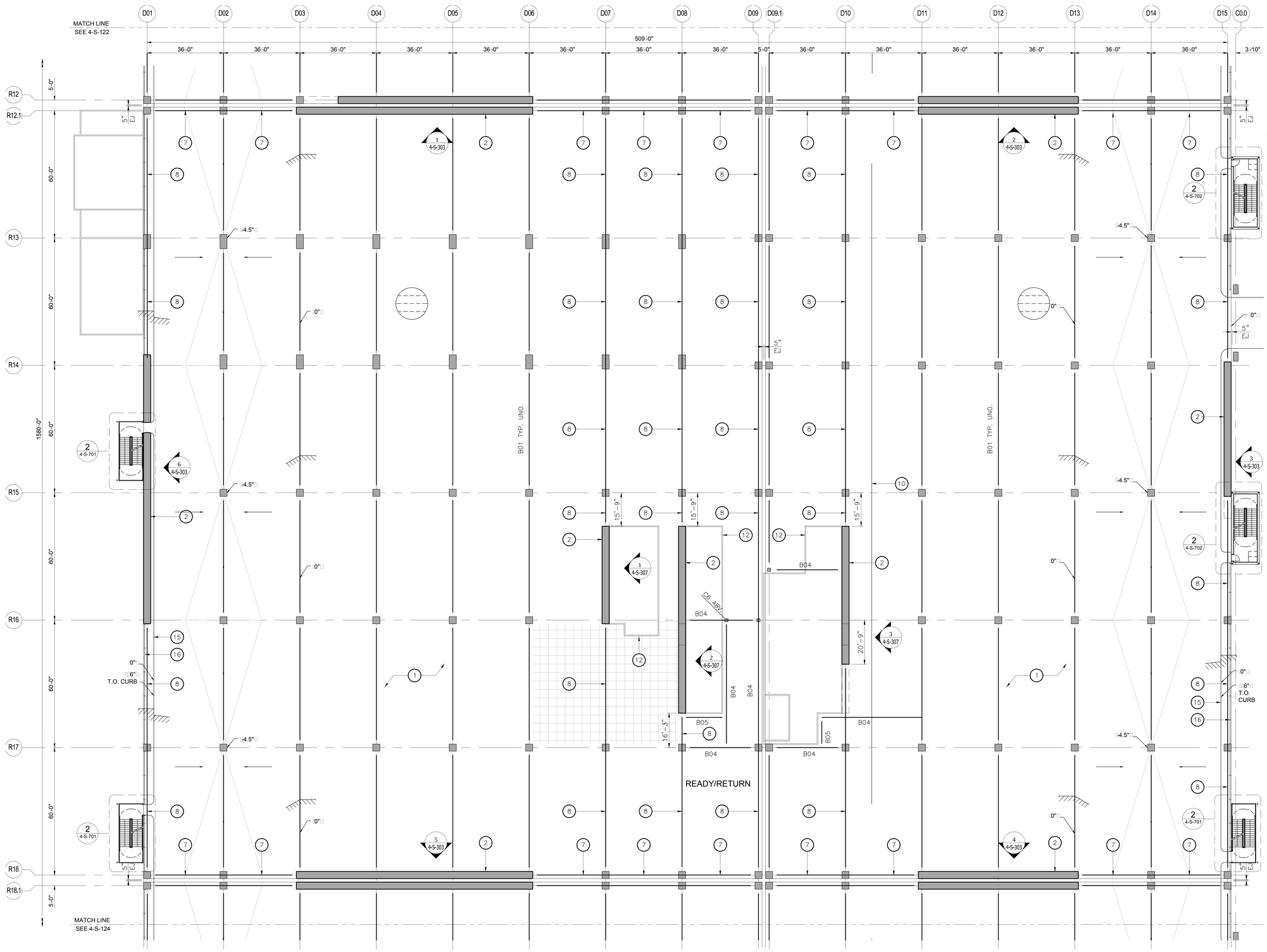
1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

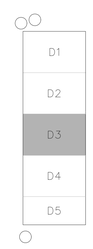
- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"



1 D3 BUILDING - READY/RETURN - LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"



KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594.6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

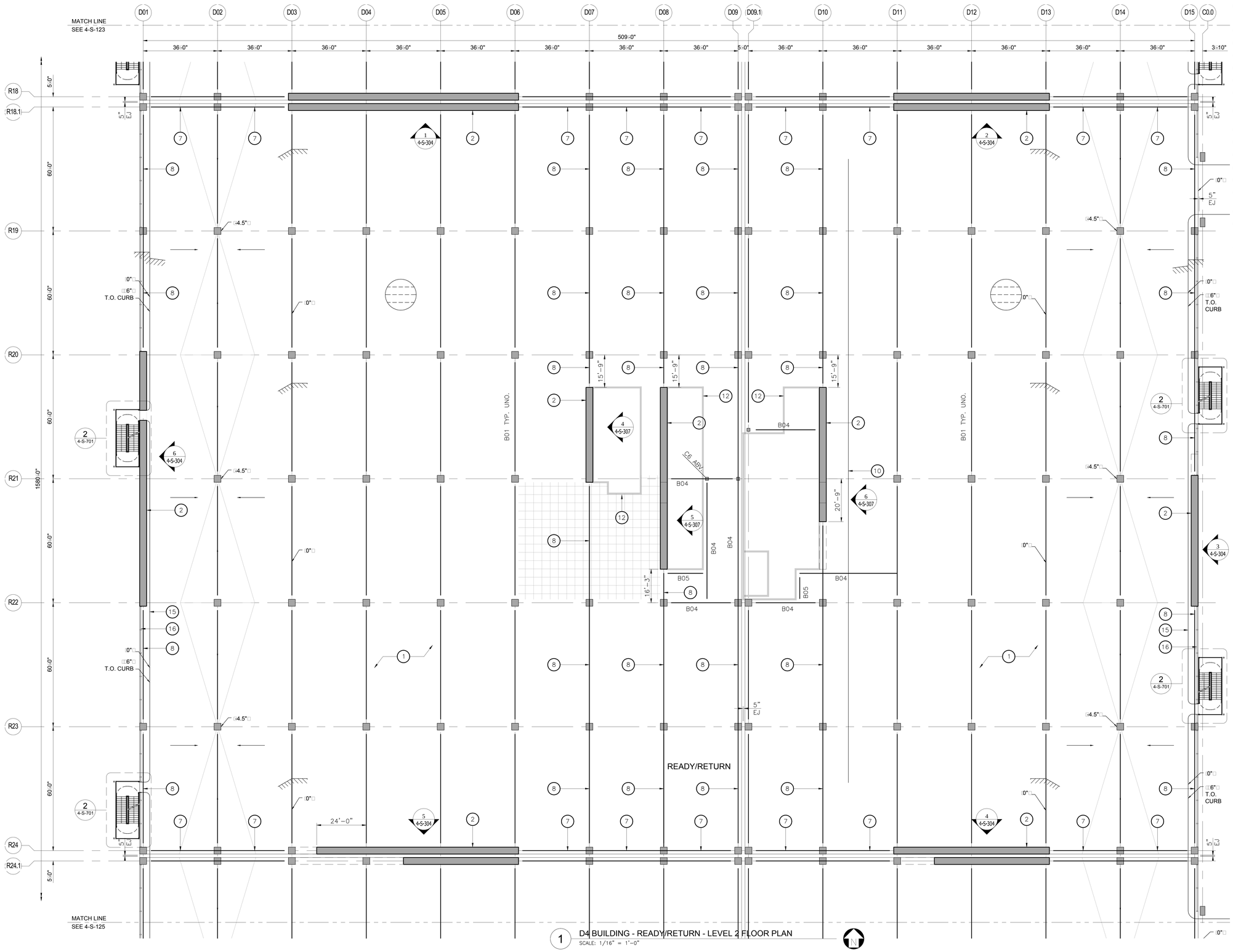
REVISIONS: MARK | DATE | DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-S-123
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D4 BUILDING - READY/RETURN - LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 2 □ 115'-6"
2. X" □ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 □ 14" O.C. AT MID DEPTH □ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8□6 CHORD REINFORCEMENT.
11. ADDITIONAL 6□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562: 594-6974
FAX: 562: 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-S-124
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 2 □115□-6"
2. □X"□ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0□-0".
4. □B□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

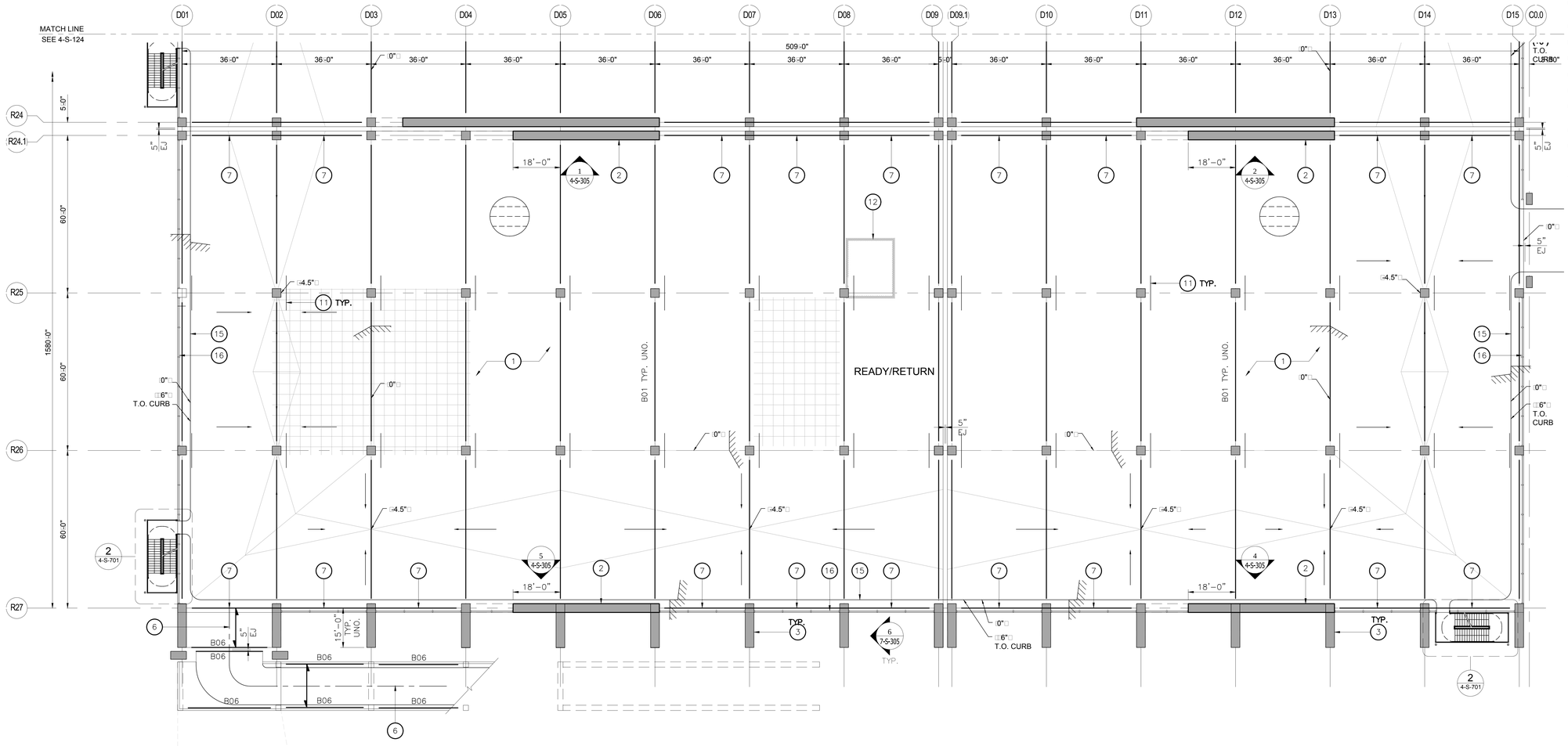
1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5□14" O.C. AT MID DEPTH □ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL □8□6 CHORD REINFORCEMENT.
11. ADDITIONAL □6□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

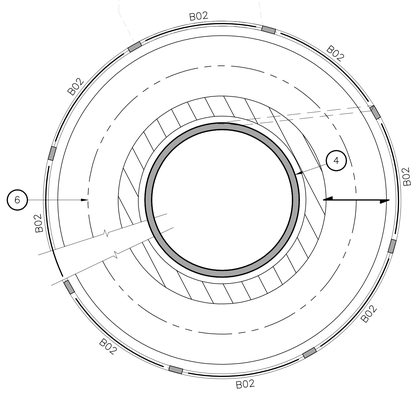
PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE □BXH□
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"





1 D5 BUILDING - READY/RETURN - LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

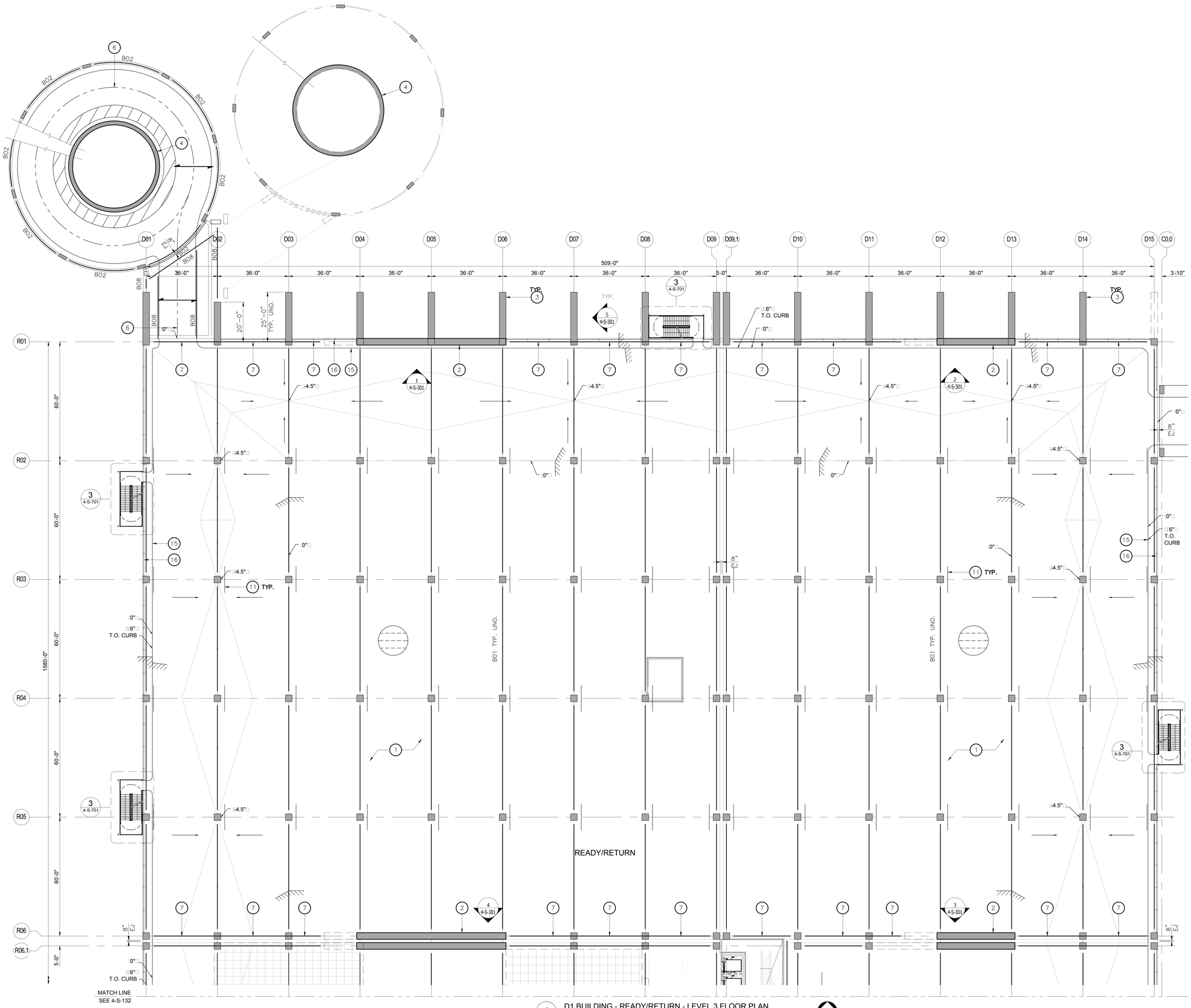
MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-S-125
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D1 BUILDING - READY/RETURN - LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 3 132'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Tream Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

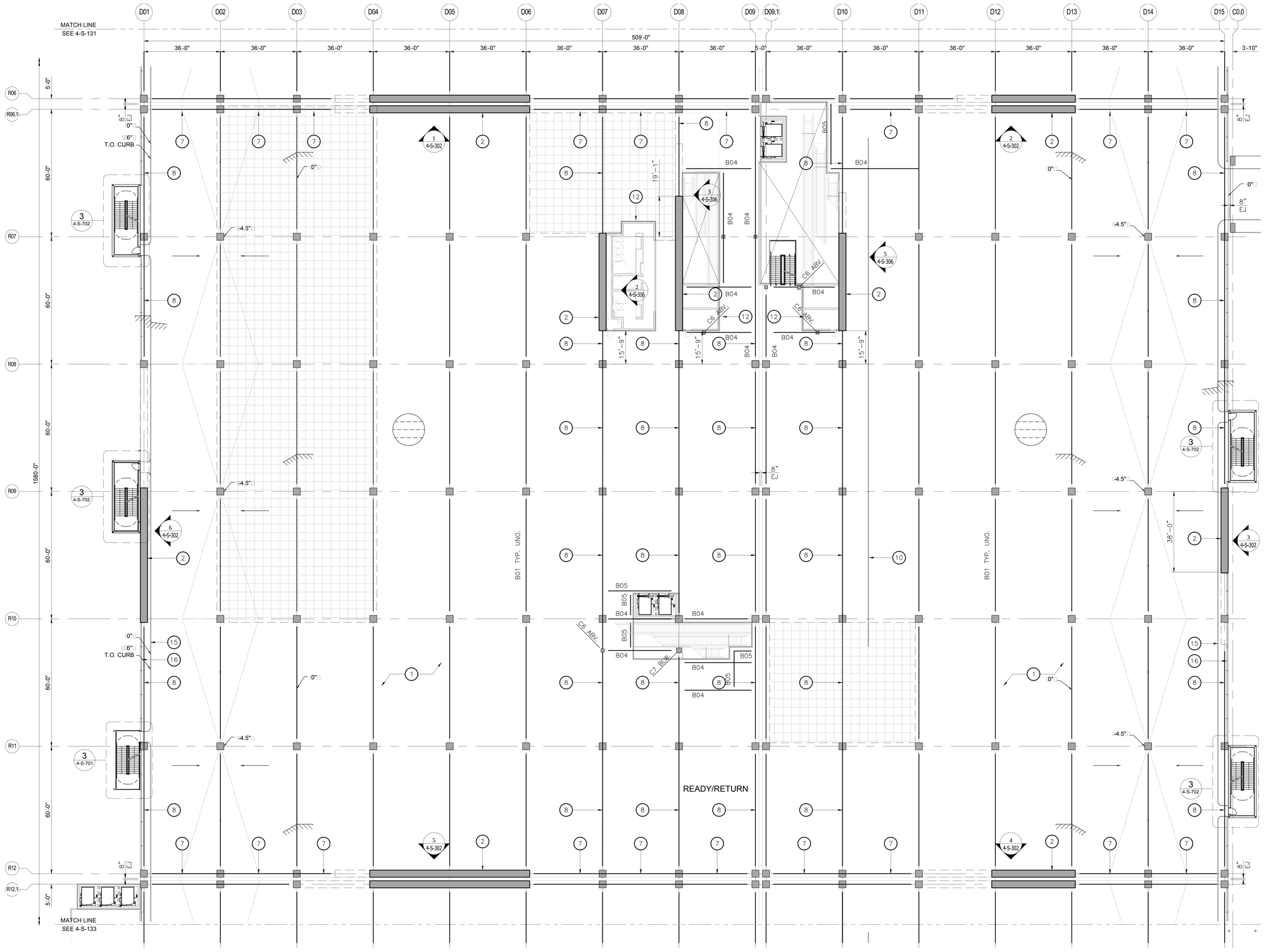
MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.
4-S-131
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D2 BUILDING - READY/RETURN - LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

KEYPLAN

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 3 132'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. "B" INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

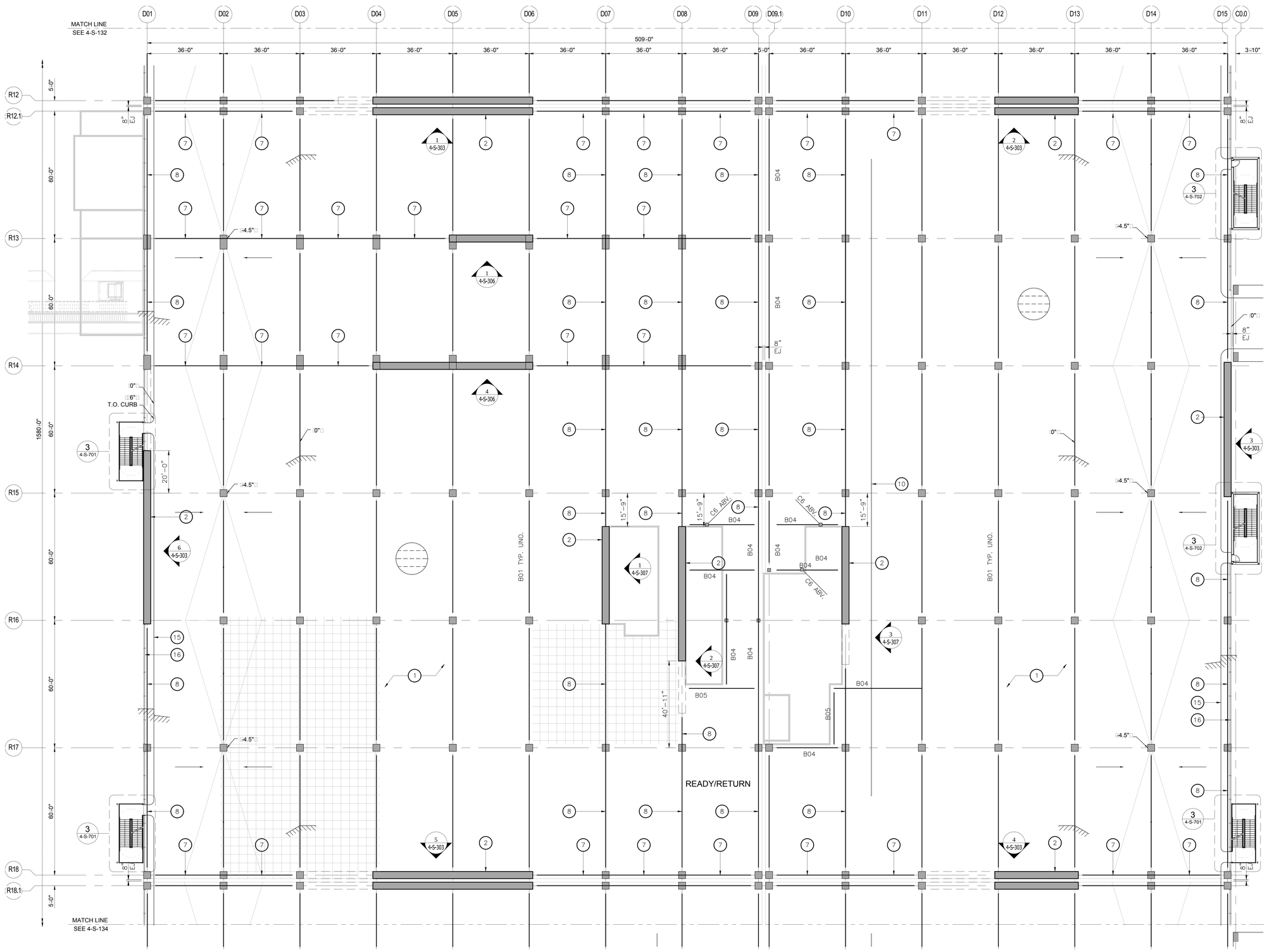
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.

4-S-132

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D3 BUILDING - READY/RETURN - LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 3 □132□-6"
2. □X"□ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0□-0".
4. □B□□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
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9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5□□14" O.C. AT MID DEPTH □□ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL □8□□6 CHORD REINFORCEMENT.
11. ADDITIONAL □6□□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
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- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE □BXH□
B01	36"X48"
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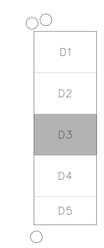
B05	12"X18"
B06	24"X42"



KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594.6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.
4-S-133

SHEET OF

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 3 □132□-6"
2. □X"□ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0□-0".
4. □B□□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
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10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5□□14" O.C. AT MID DEPTH □□ EACH WAY OVER PRECAST DOUBLE TEE
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4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL □8□□6 CHORD REINFORCEMENT.
11. ADDITIONAL □6□□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
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16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
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- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
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- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
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- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
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BEAM SCHEDULE

TYPE	SIZE □BXH□
B01	36"X48"
B02	18"X54"
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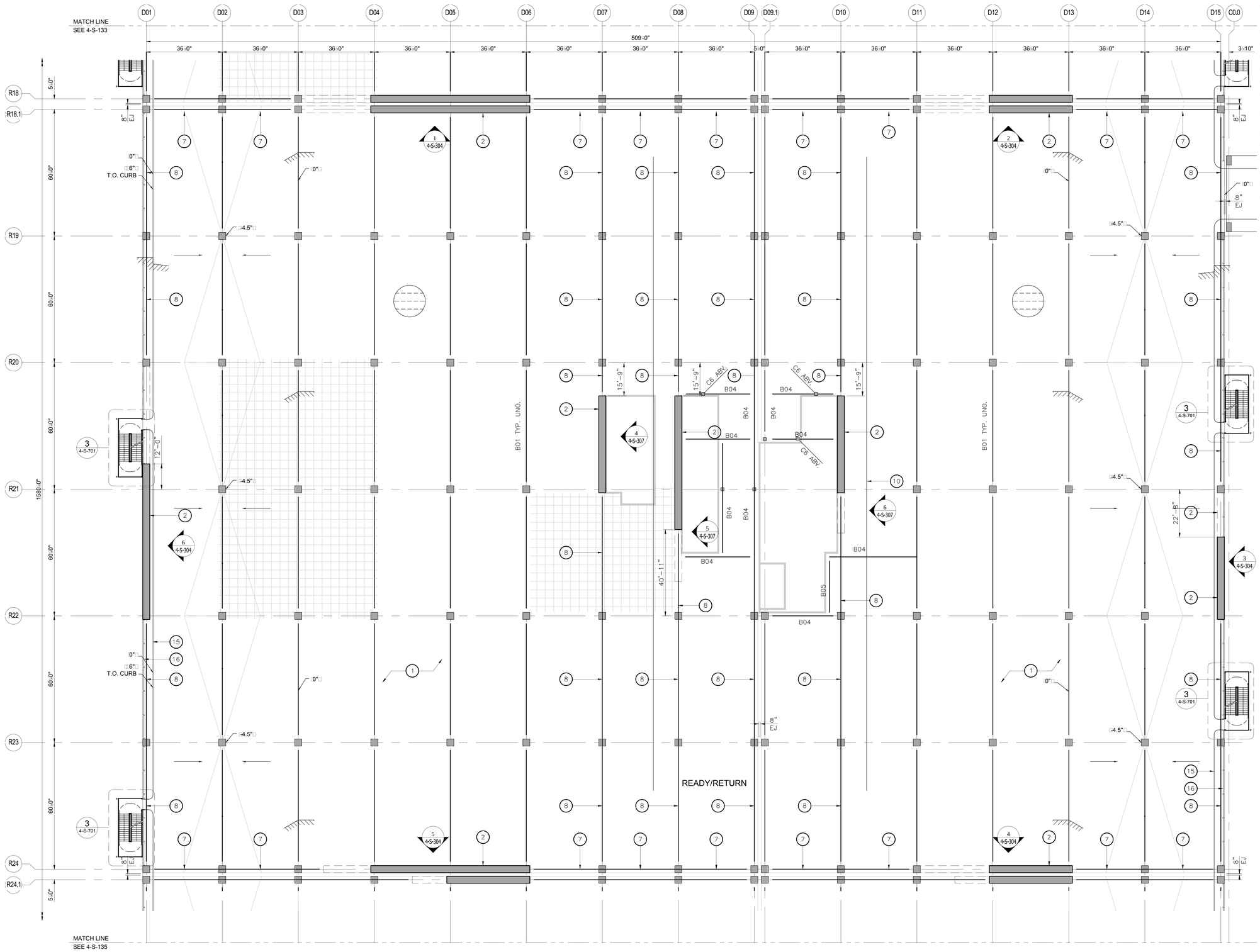

1 D4 BUILDING - READY/RETURN - LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

Tram Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo Angele: International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

LAWA LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

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DATE: 07/01/16
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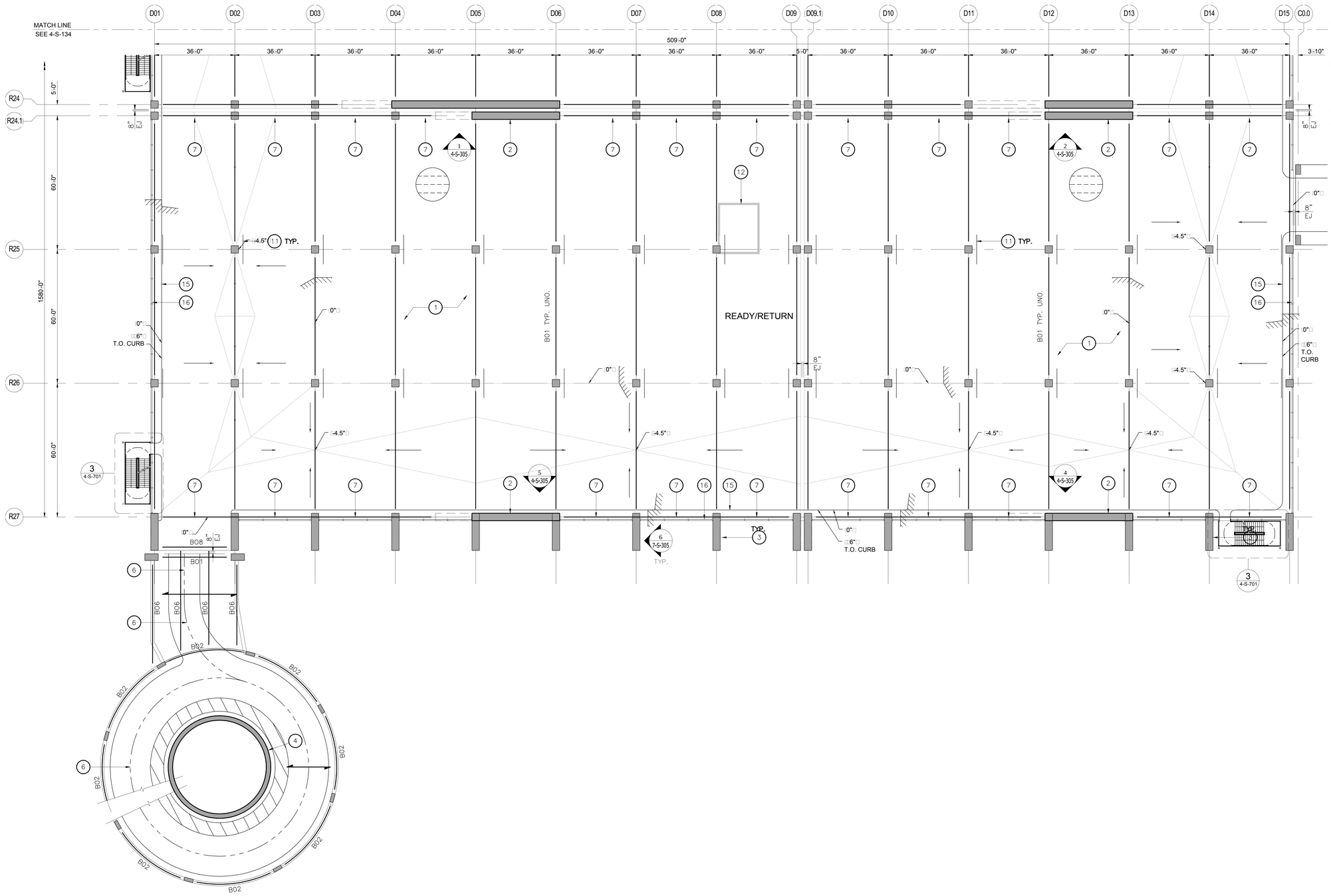
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.
4-S-134
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D5 BUILDING - READY/RETURN - LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 3 □ 132'-6"
2. X" □ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 □ 14" O.C. AT MID DEPTH □ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8□6 CHORD REINFORCEMENT.
11. ADDITIONAL 6□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562: 594-6974
FAX: 562: 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo□Angele□International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

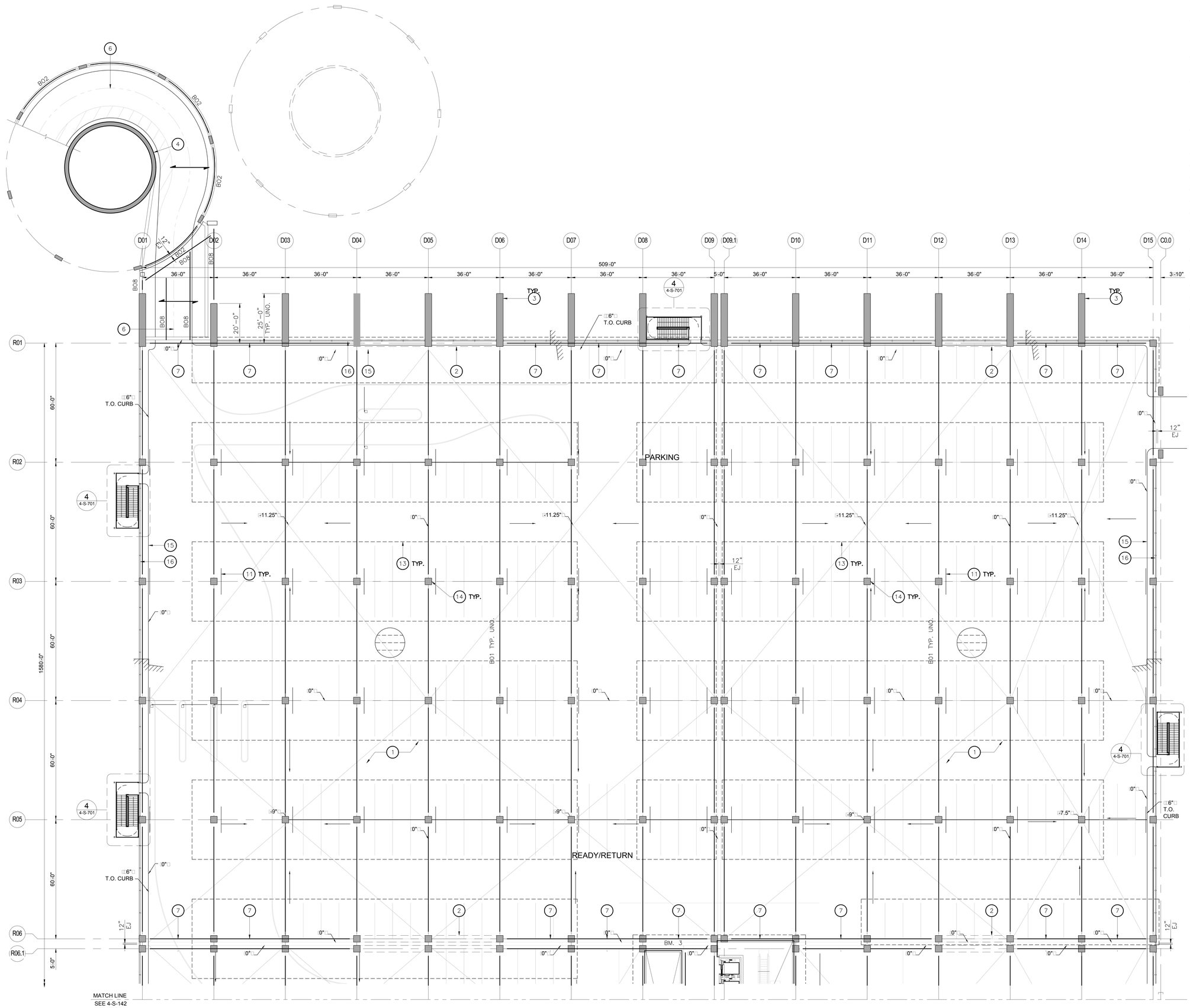
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" □ 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.
4-S-135
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D1 BUILDING - READY/RETURN - LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 4 152'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. "B" INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
- INDICATES SLOPING SLAB FOR DRAINAGE
- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

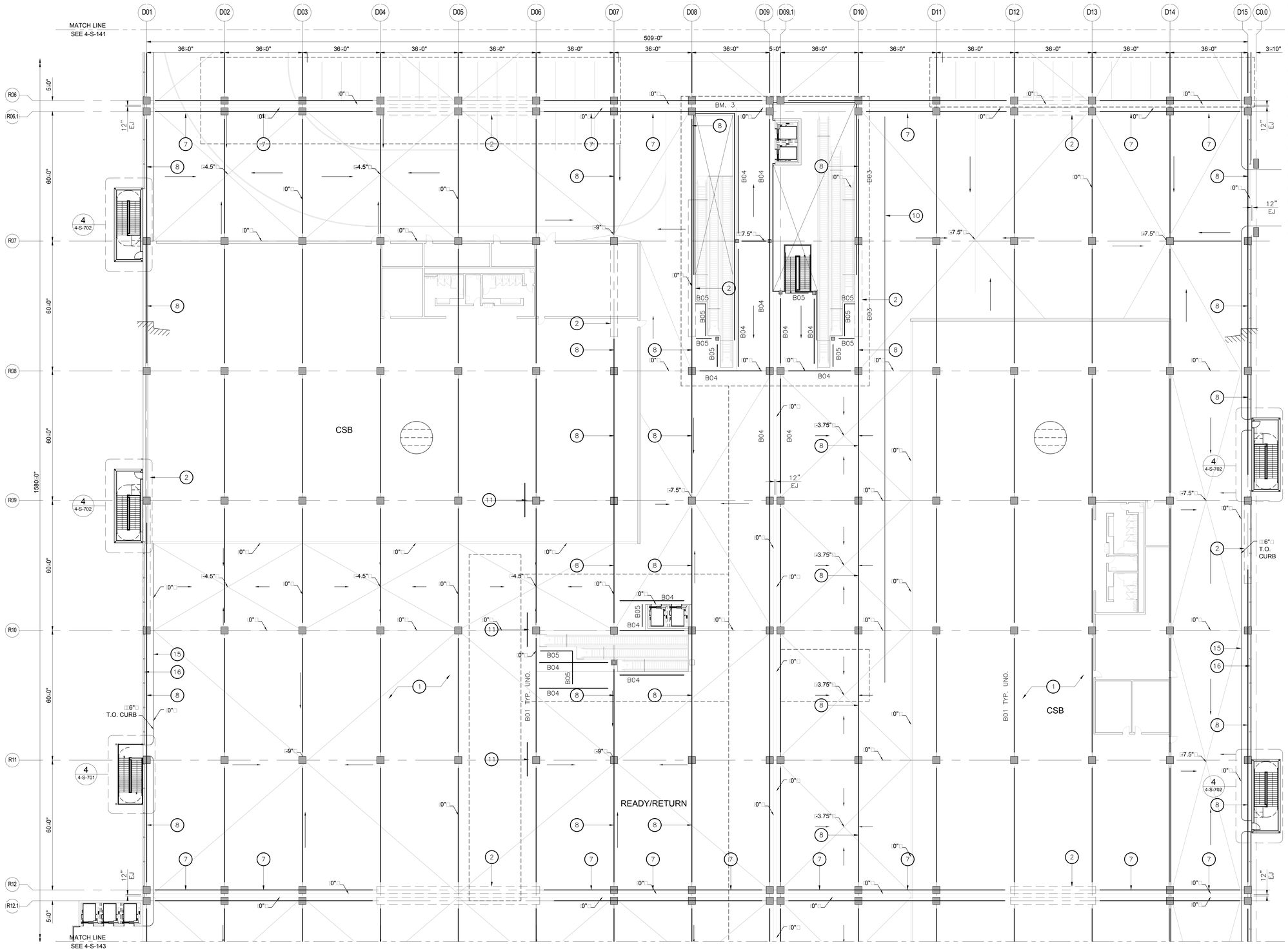
MARK	DATE:	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-S-141
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D2 BUILDING - READY/RETURN - LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 4 152'-6"
2. "X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
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8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
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7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
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15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
- INDICATES FULLY GROUTED MASONRY WALL
- INDICATES PRECAST DOUBLE-TEES BY PRECAST SUPPLIER
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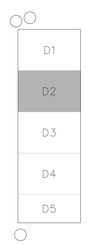
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"



KEYPLAN

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594.6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

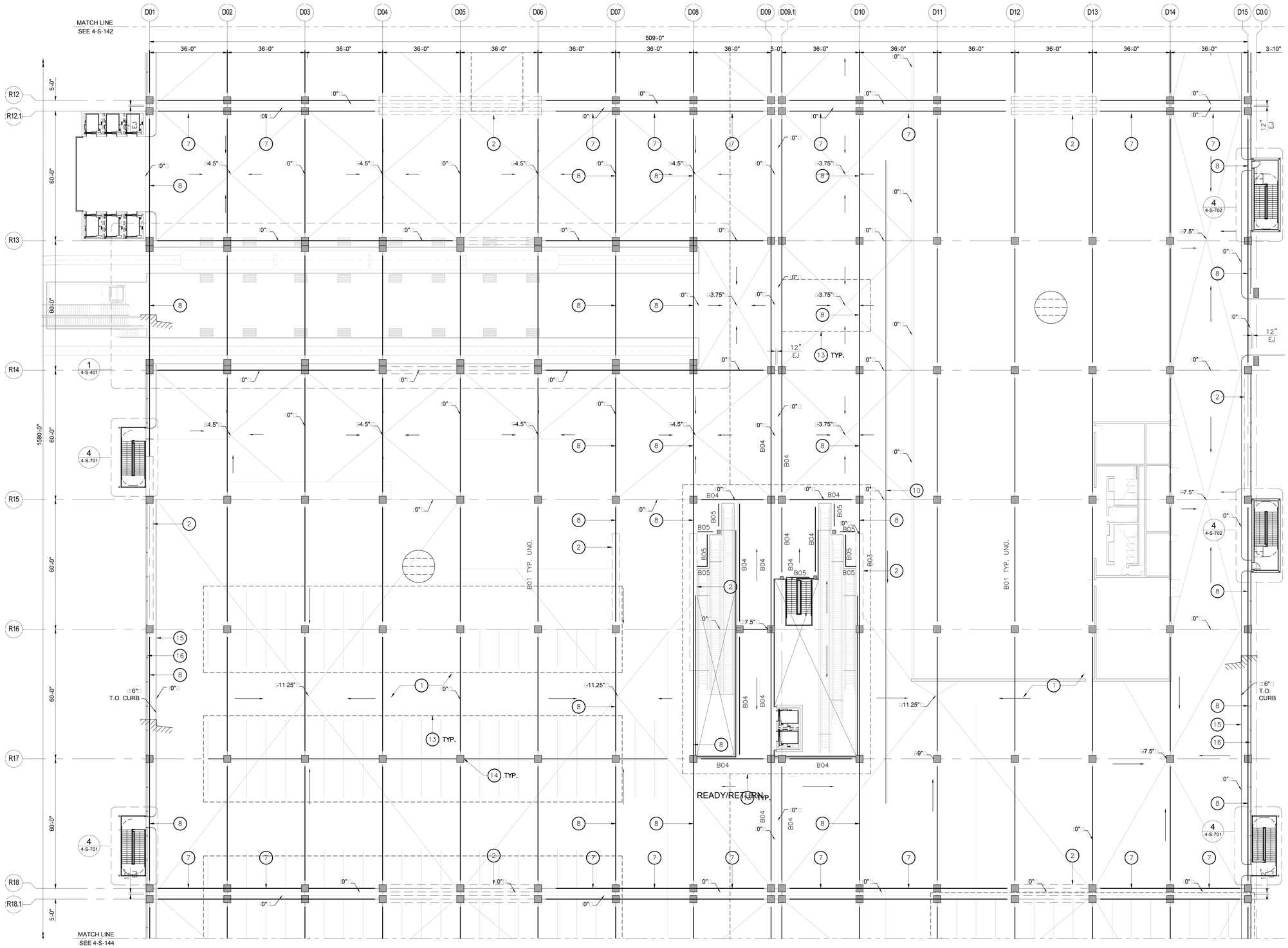
MARK	DATE	DESCRIPTION

PROJ NO: DM4881
SCALE: 1/16" 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-S-142
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 D3 BUILDING - READY/RETURN - LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 4 □ 152'-6"
2. □X"□ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. □B□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
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9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
10. RE: VOLUME 1 FOR STRUCTURAL GENERAL NOTES.

KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5□14" O.C. AT MID DEPTH □ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
3. 36" THICK CONC. CAST-IN PLACE BUTTRESS WALL
4. 24" THICK CONC. CAST-IN PLACE SHEAR WALL
5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL □8□6 CHORD REINFORCEMENT.
11. ADDITIONAL □6□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
15. 6" HIGH CONC. CURB
16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
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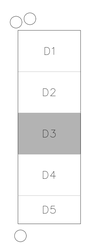
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE BEAM SEE SCHEDULE FOR SIZE
- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE □BXH□
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"



KEYPLAN

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" □1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN LEVEL 4 FLOOR PLAN

SHEET NO.
4-S-143
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

© train - item: tpw_localtrain - copy part/sheet/ne: \\0350\0350\DA4881-4-S-143_LAD.dwg Plotted: Jul 01, 2016 - 11:15am

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 4 □152□-6"
2. □X"□ DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0□-0".
4. □B□□ INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
7. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
8. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.
9. RE: VOLUME 5 FOR MORE INFORMATION ON ELEVATORS AND ESCALATORS CORE FRAMING.
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KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ □5□□14" O.C. AT MID DEPTH □□ EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
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5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL □8□□6 CHORD REINFORCEMENT.
11. ADDITIONAL □6□□8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
14. CONC. PEDESTAL 36" HIGH W/ EMBEDDED STEEL PLATE FOR SOLAR PANEL FRAMING SUPPORT
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PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
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- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
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- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE □BXH□
B01	36"X48"
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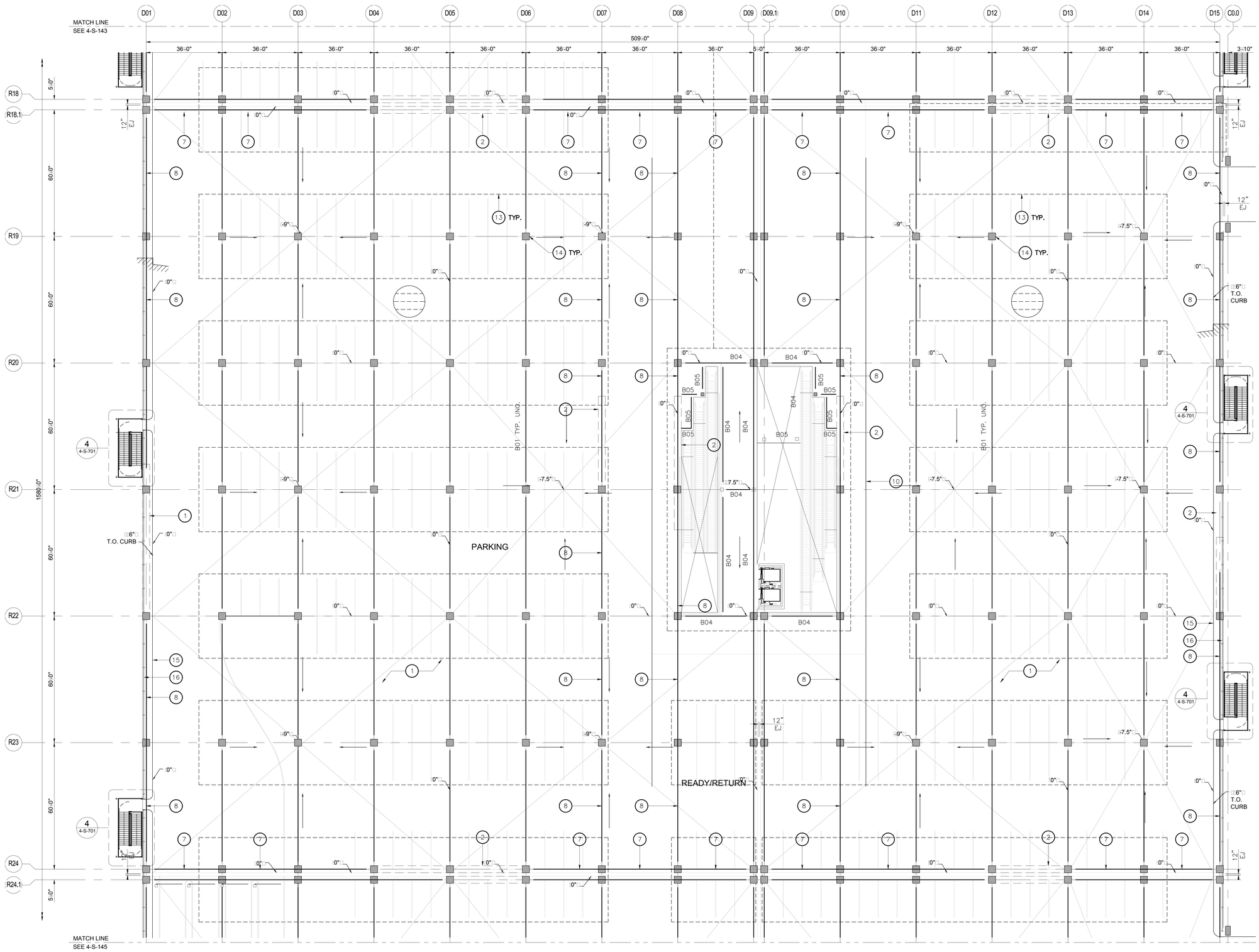

1 D4 BUILDING - READY/RETURN - LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN

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Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-S-144
SHEET OF

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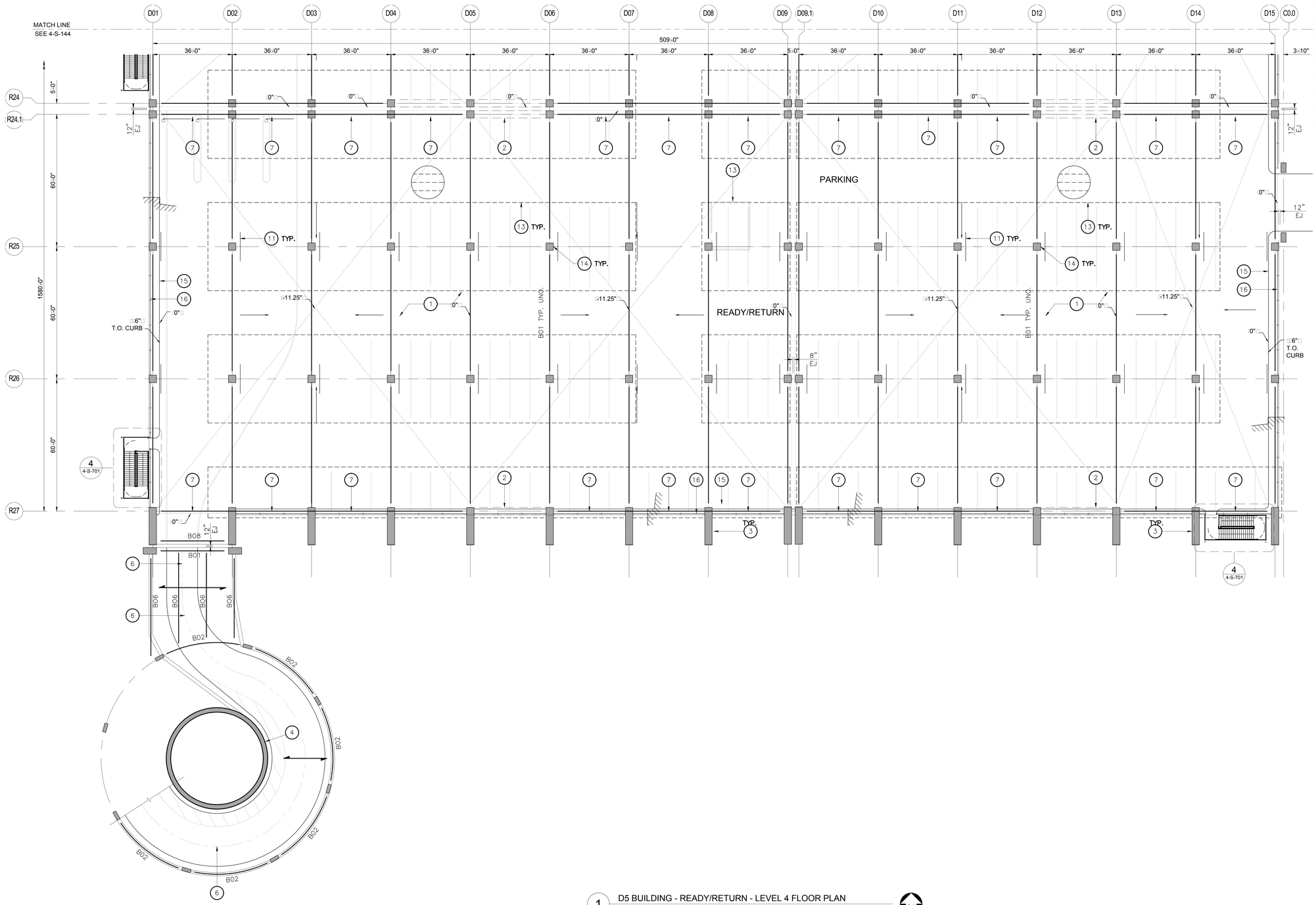

1 D5 BUILDING - READY/RETURN - LEVEL 4 FLOOR PLAN

SCALE: 1/16" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR -LEVEL 4 152'-6"
2. X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
4. B INDICATES CAST IN-PLACE / PRECAST CONCRETE BEAM TYPE. RE. PLANS, SCHEDULE
5. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
6. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
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KEY PLAN:

1. CAST IN-PLACE CONCRETE TOPPING SLAB MINIMUM 6" THICK W/ 5 14" O.C. AT MID DEPTH EACH WAY OVER PRECAST DOUBLE TEE
2. 36" THICK CONC. CAST-IN PLACE SHEAR WALL
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5. 18" THICK CONC. CAST-IN PLACE WALL
6. 12" THICK CONC. CAST-IN PLACE RAMP SLAB
7. CAST-IN PLACE 18X36 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
8. CAST-IN PLACE 36X48 DRAG BEAM W/ DRAG REINF. CONT. AT SUPPORT
9. NOT USED
10. ADDITIONAL 8 6 CHORD REINFORCEMENT.
11. ADDITIONAL 6 8 DRAG REINFORCEMENT IN DIAPHRAGM
12. 8" THICK FULL HEIGHT CMU WALL
13. SOLAR PANELS BY OTHERS
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16. CABLE BARRIER

PLAN LEGEND:

- INDICATES SLAB SPAN DIRECTION
- INDICATES CAST-IN-PLACE CONCRETE SHEAR WALL
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- INDICATES CAST-IN-PLACE / PRECAST CONCRETE COLUMNS
- INDICATES HSS STAIRS COLUMN
- EXIT BOTH. ADDITIONAL 25 PSF SUPERIMPOSED DEAD LOAD.
- EJ EXPANSION JOINT/ SEISMIC SEPARATION

BEAM SCHEDULE

TYPE	SIZE BXH
B01	36"X48"
B02	18"X54"
B03	18"X30"
B04	18"X36"
B05	12"X18"
B06	24"X42"

KEYPLAN

Tram Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

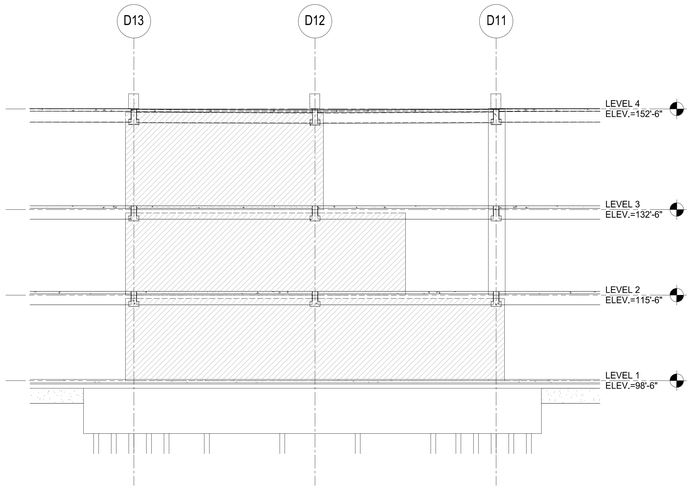
READY/ RETURN LEVEL 4 FLOOR PLAN

SHEET NO.

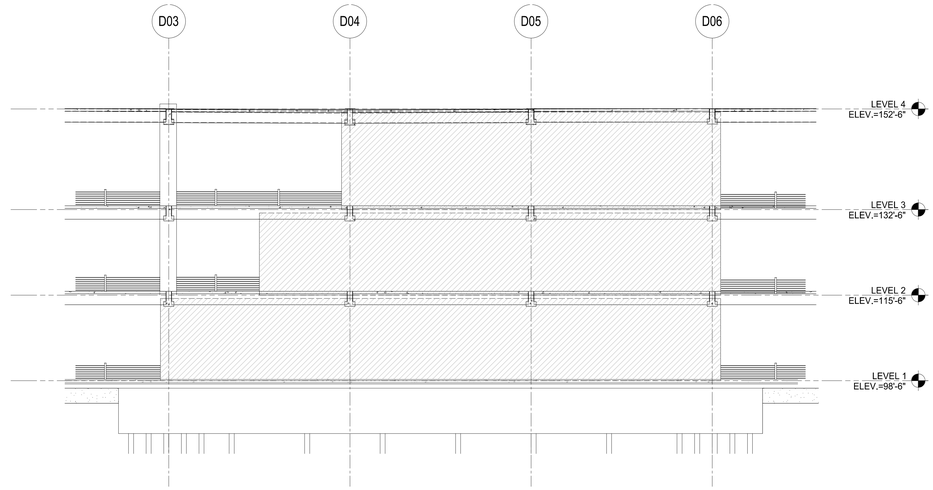
4-S-145

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



3 D1 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R06
SCALE: 3/32" = 1'-0"



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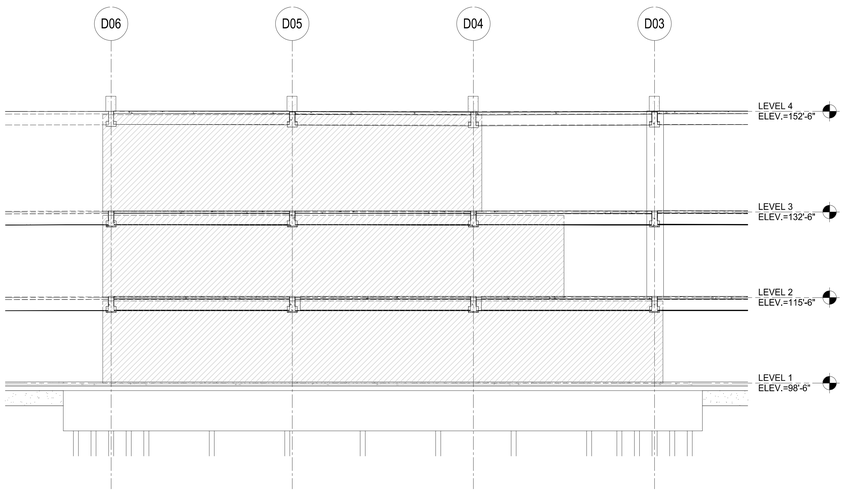
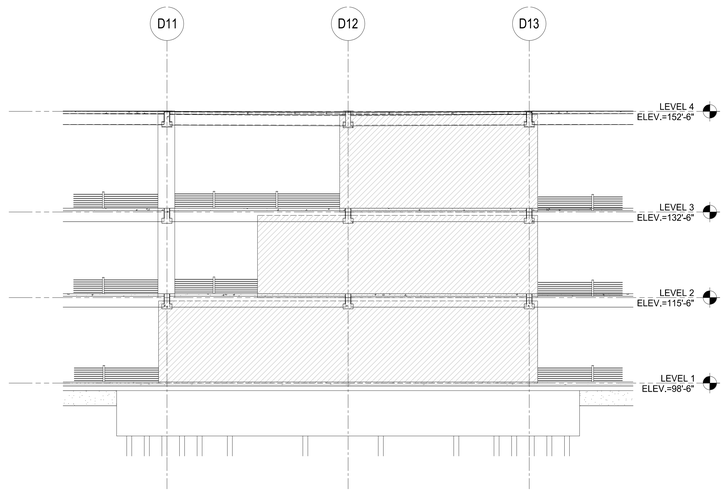
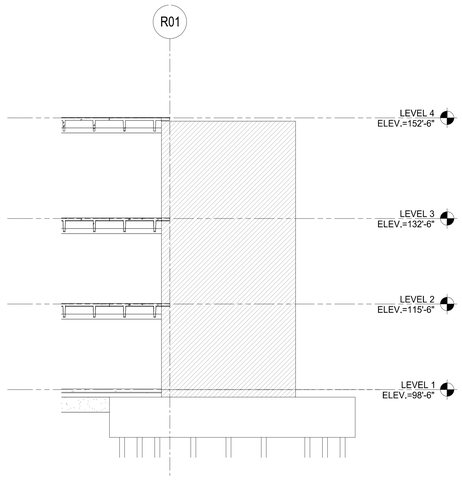
SCALE: 3/32" = 1'-0"



4 D1 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R06
SCALE: 3/32" = 1'-0"



2 D1 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R01
SCALE: 3/32" = 1'-0"



5 D1 BUILDING - BUTTRESS WALL ELEVATION - TYP. AT NORTH END
SCALE: 3/32" = 1'-0"

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ NO: DA4881
SCALE: 3/32" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D1 BUILDING SHEAR WALL ELEVATION

SHEET NO.
4-S-301
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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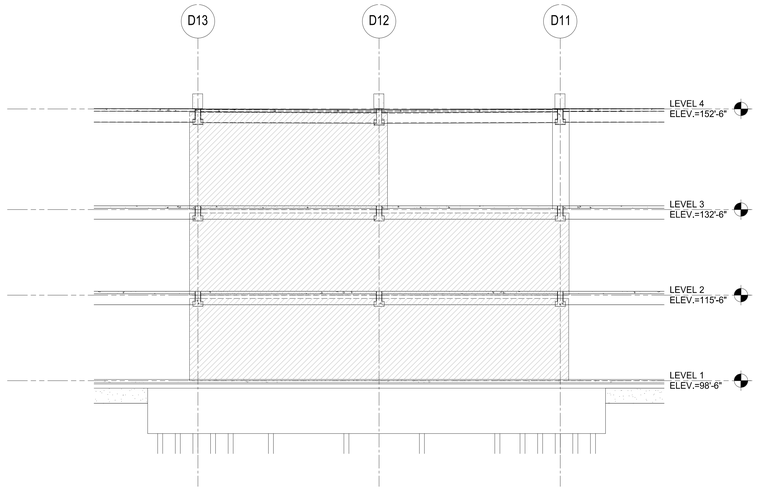
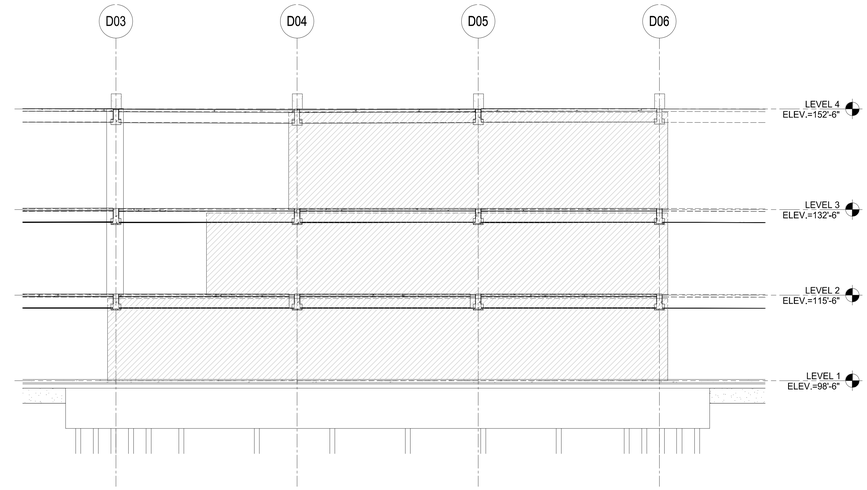
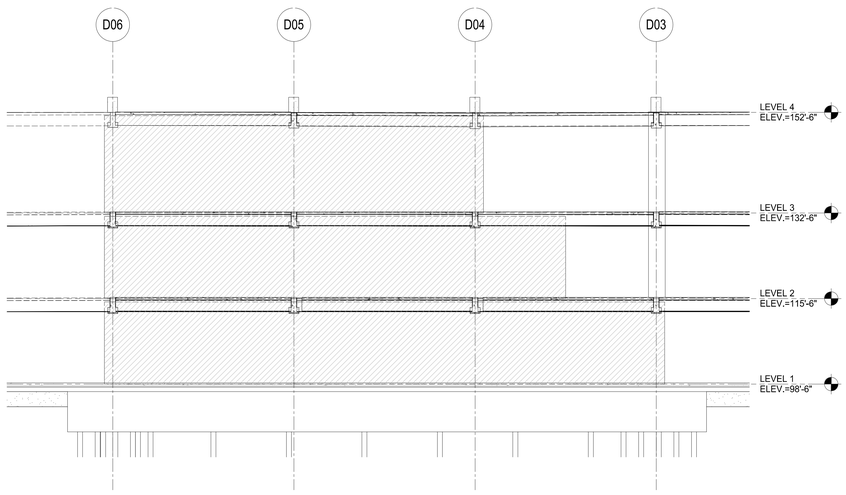


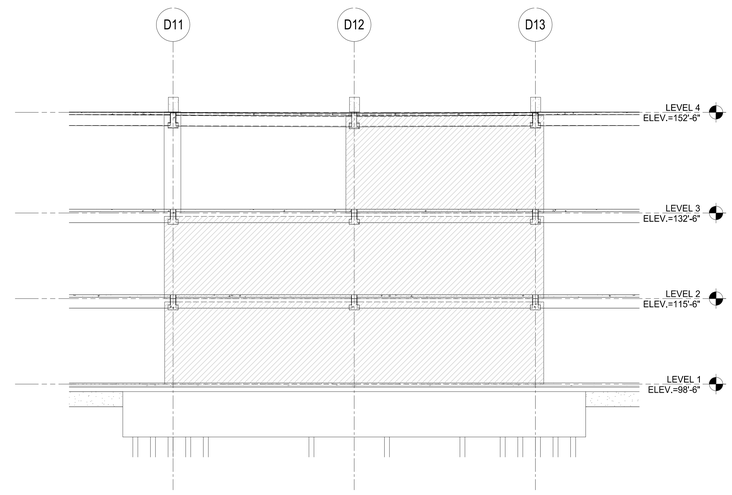
4 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R12
SCALE: 3/32" □ 1'-0"



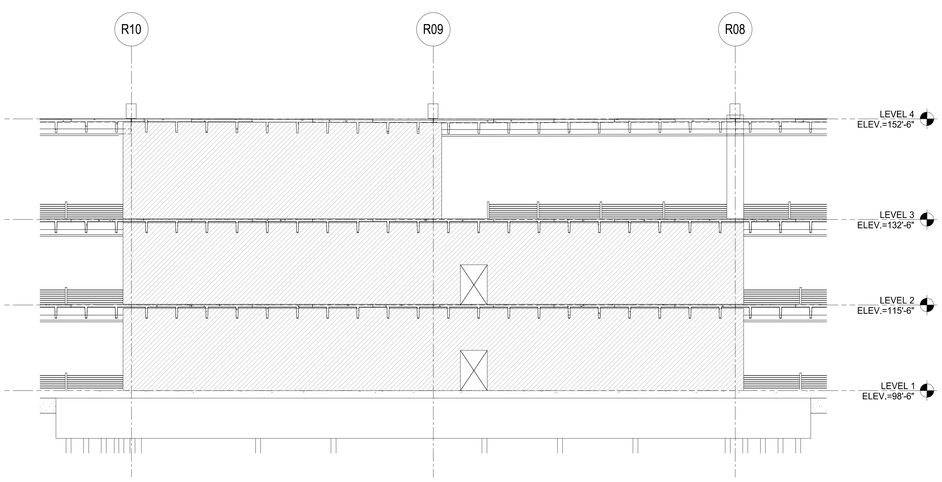
1 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R06.1
SCALE: 3/32" □ 1'-0"



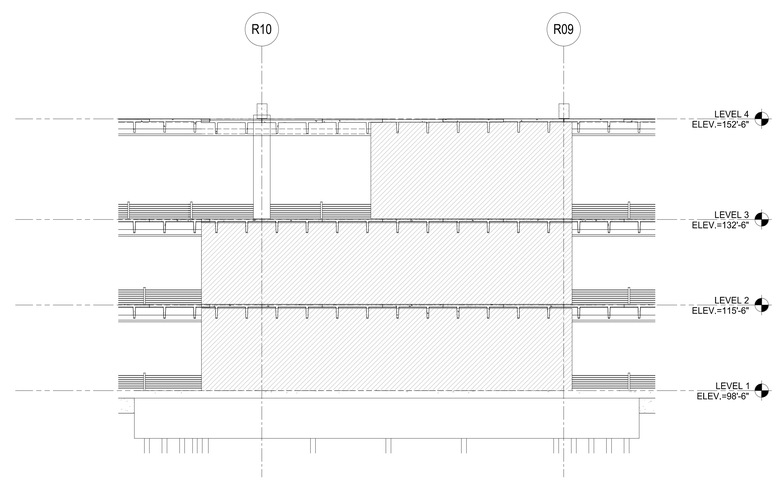
5 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R12
SCALE: 3/32" □ 1'-0"



2 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R06.1
SCALE: 3/32" □ 1'-0"



6 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D01
SCALE: 3/32" □ 1'-0"



3 D2 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D015
SCALE: 3/32" □ 1'-0"

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 3/32" □ 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D2 BUILDING SHEAR WALL ELEVATION

SHEET NO.
4-S-302
SHEET OF

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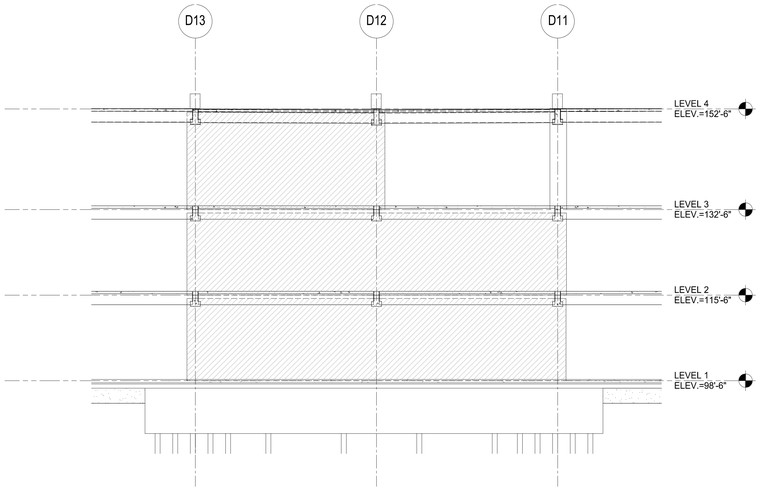
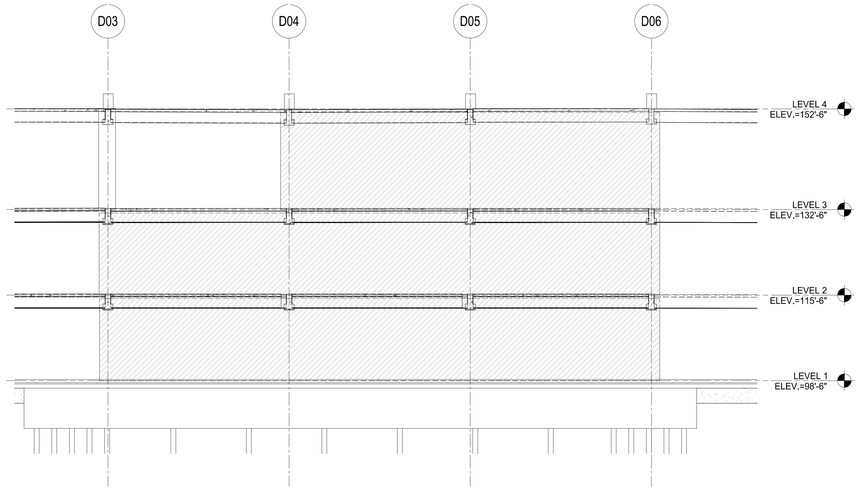
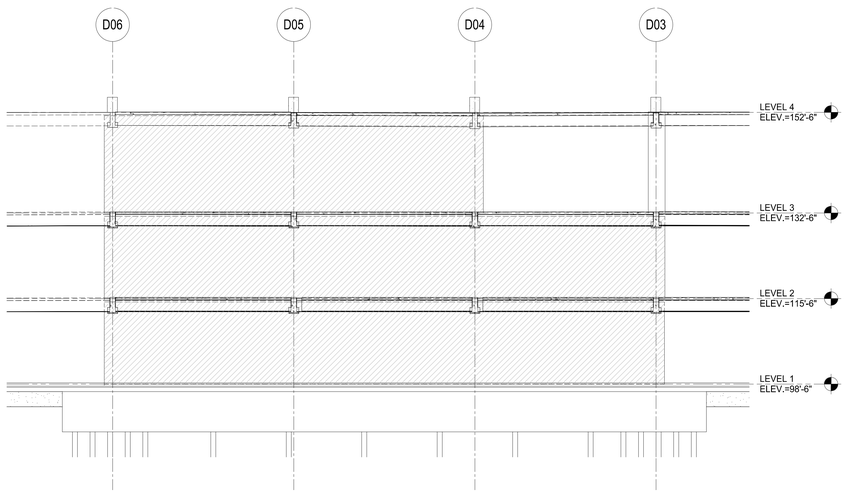


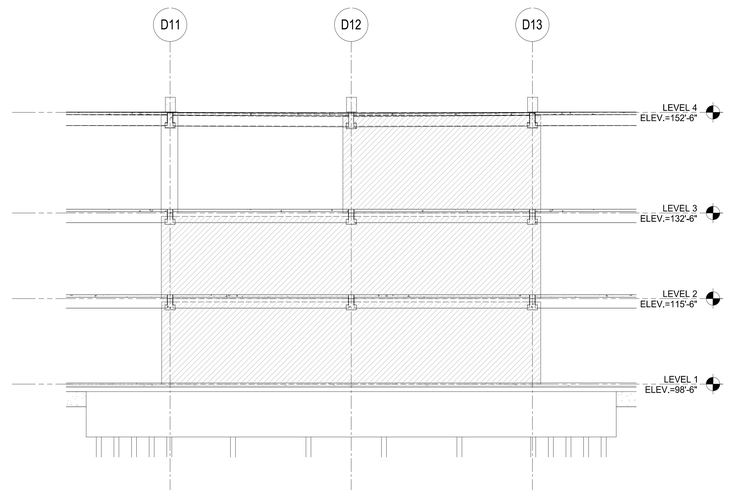
4 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R18
SCALE: 3/32" = 1'-0"



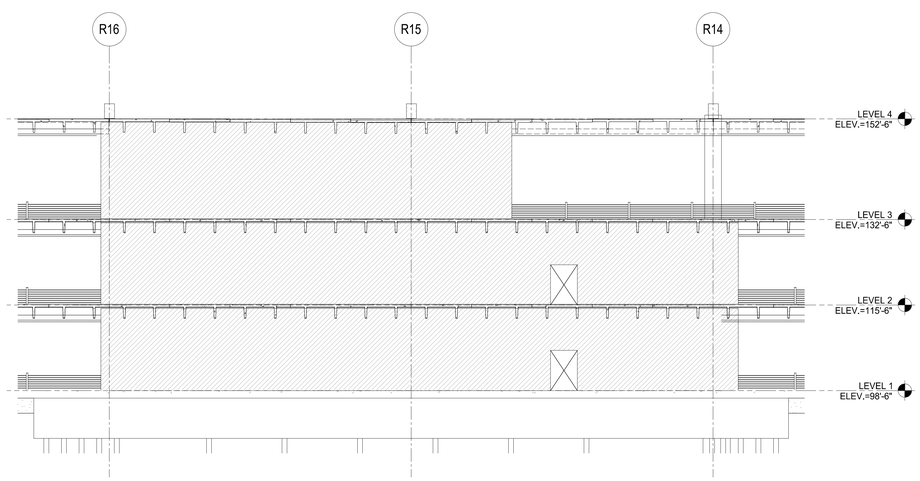
1 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R12.1
SCALE: 3/32" = 1'-0"



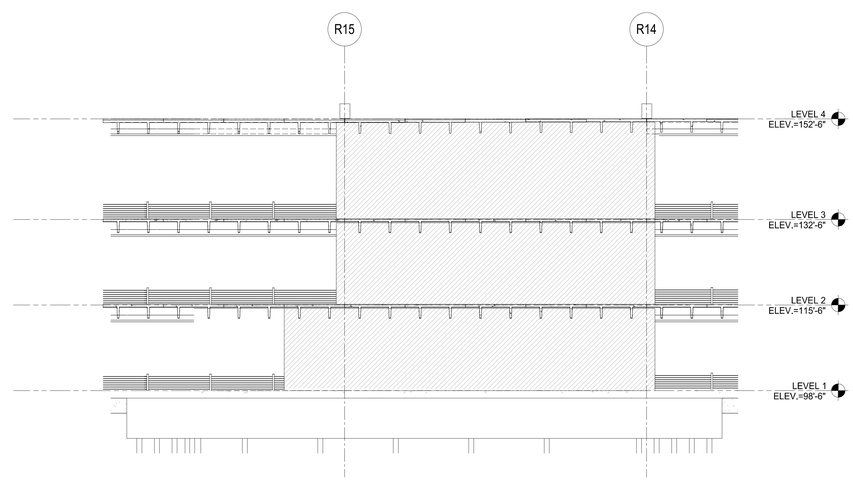
5 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R18
SCALE: 3/32" = 1'-0"



2 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R12.1
SCALE: 3/32" = 1'-0"



6 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D01
SCALE: 3/32" = 1'-0"



3 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D15
SCALE: 3/32" = 1'-0"

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 3/32" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D3 BUILDING SHEAR WALL ELEVATION

SHEET NO.
4-S-303
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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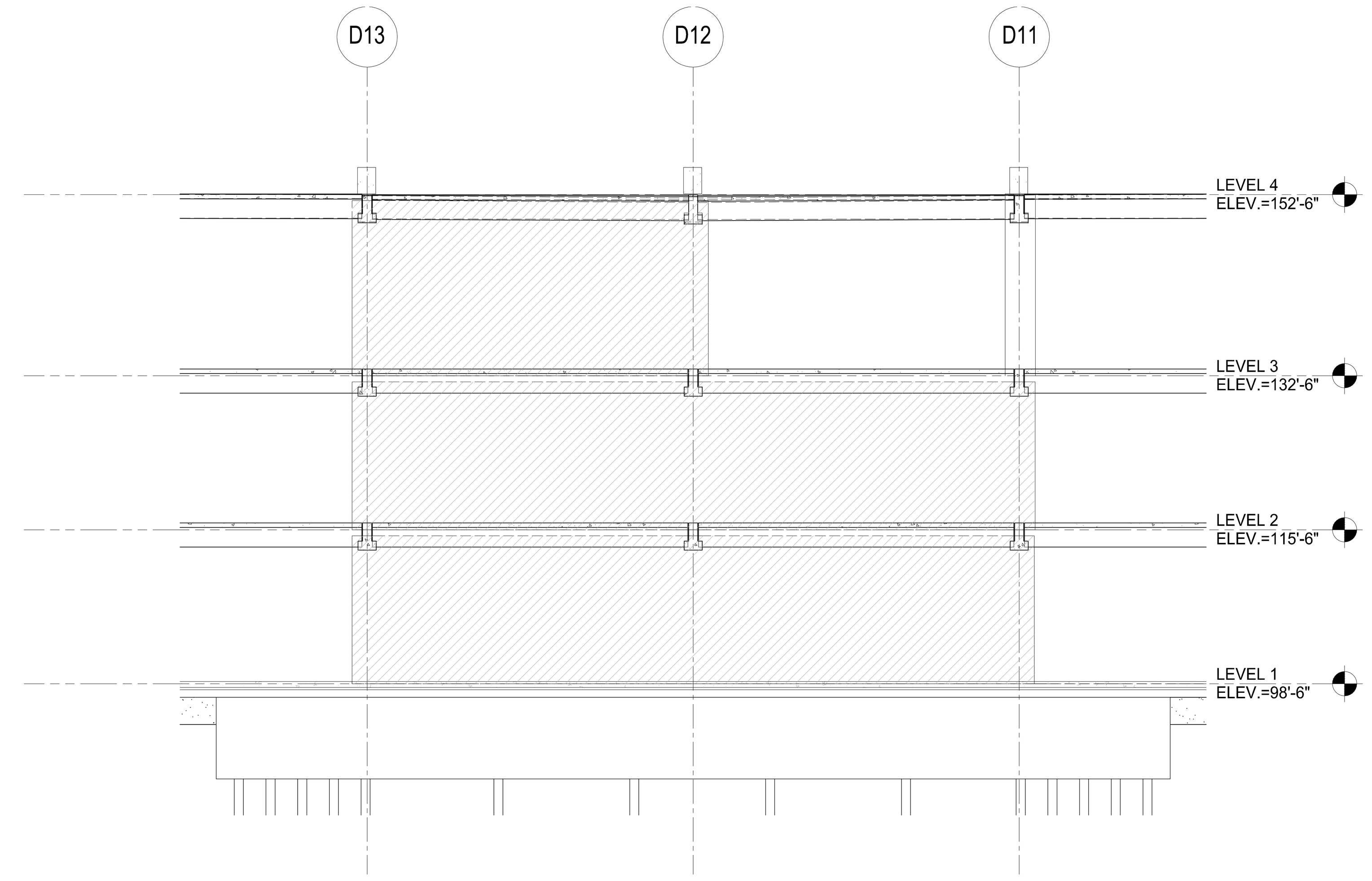
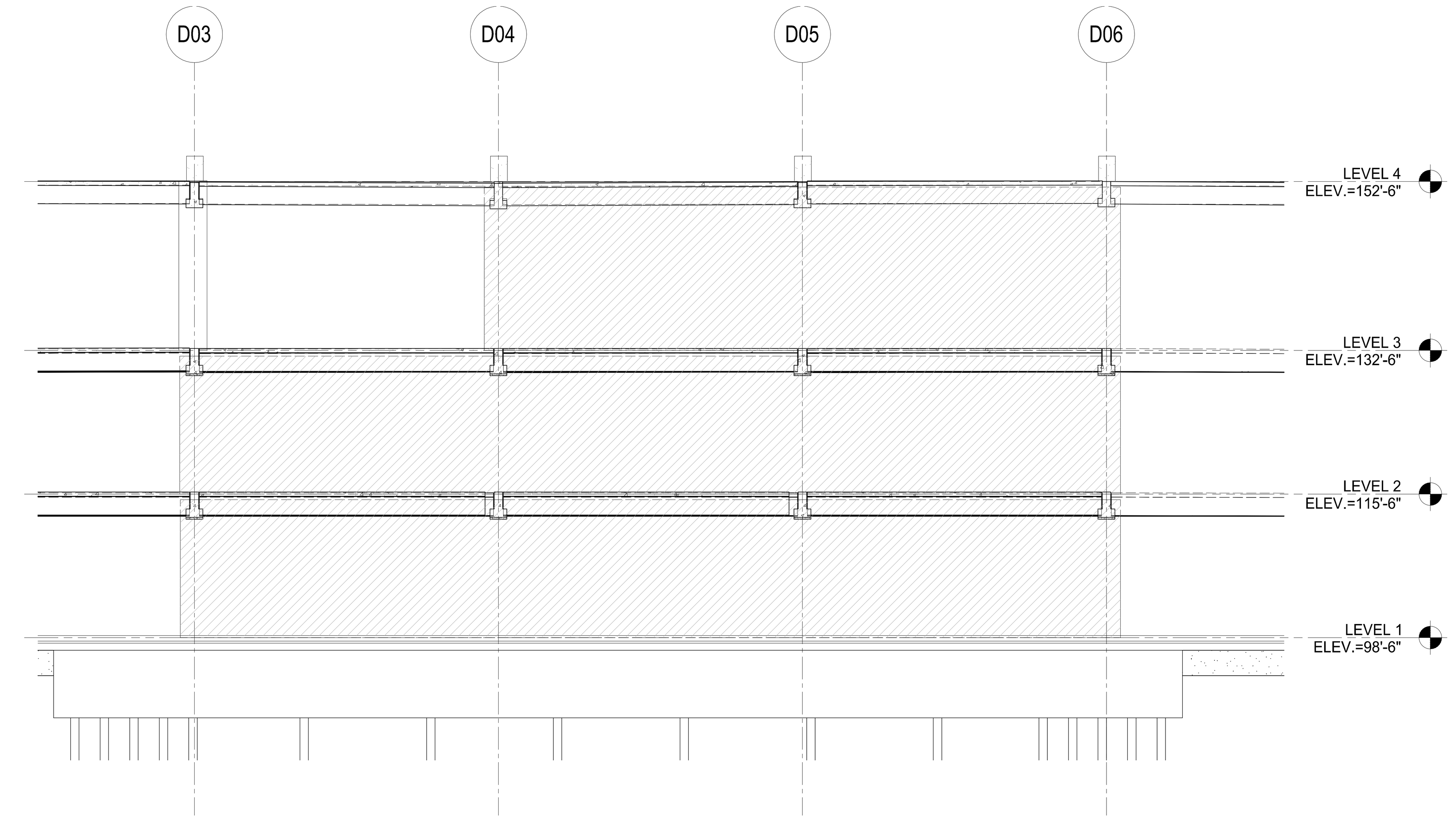
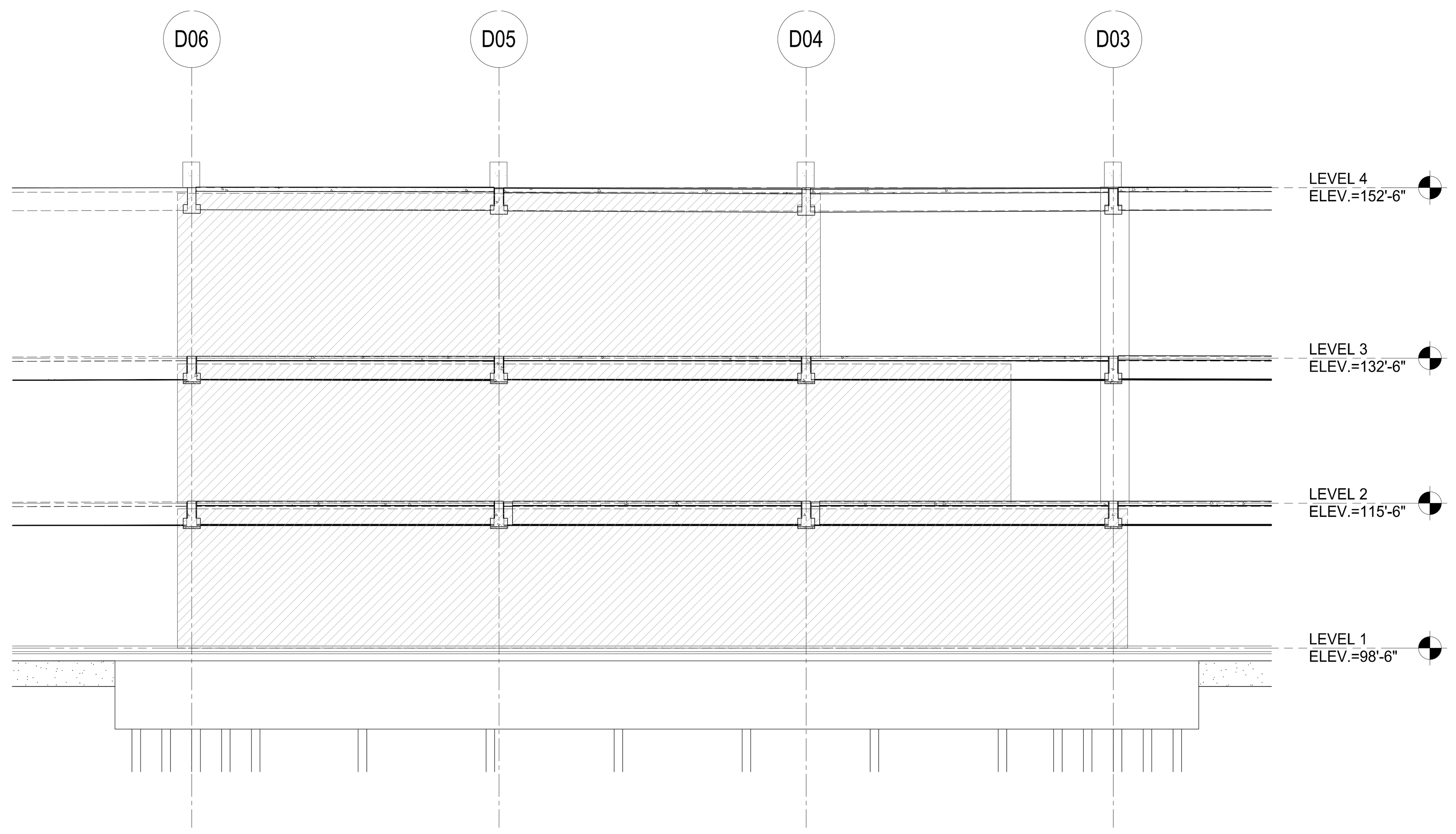


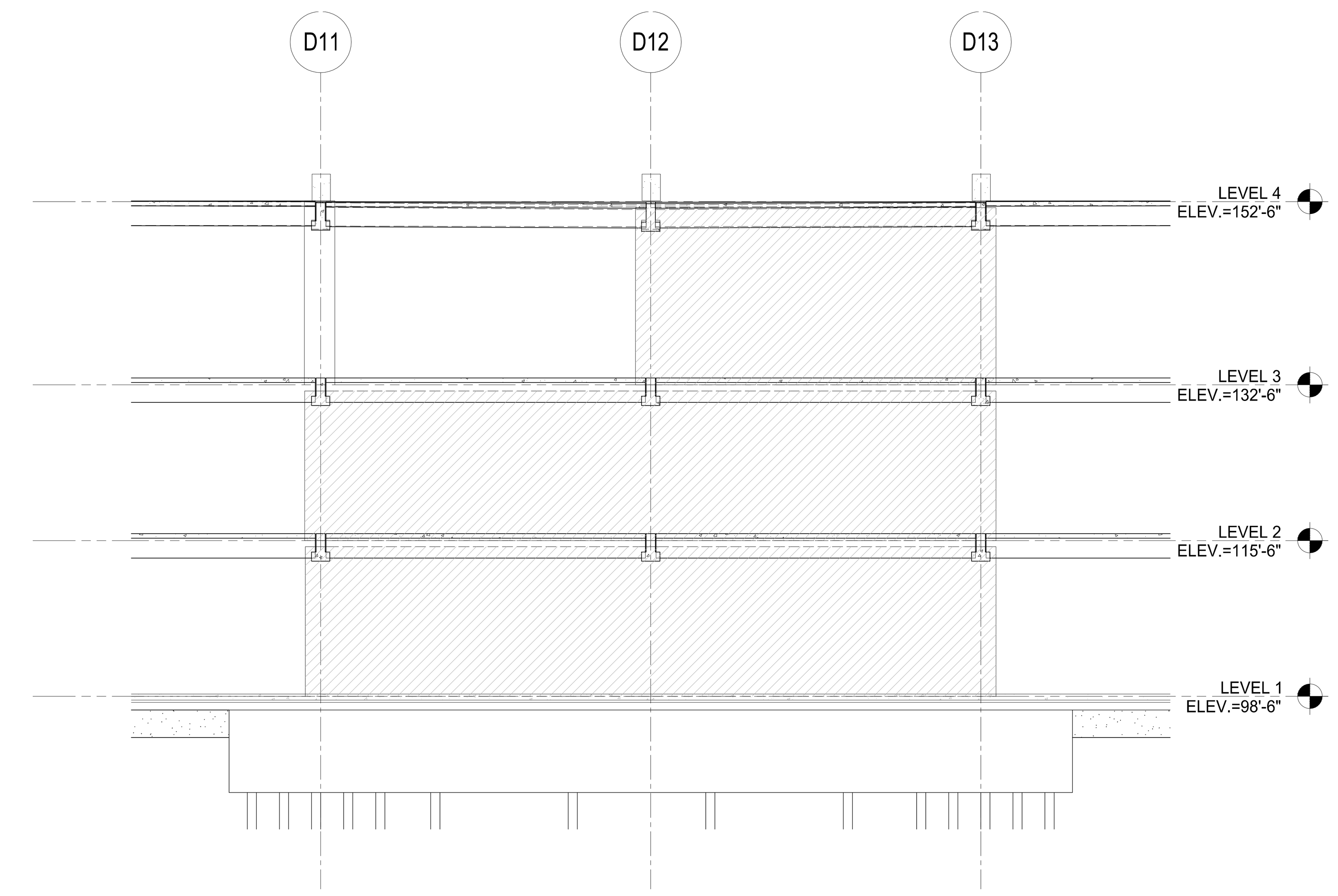
4 **D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R24**
SCALE: 3/32" = 1'-0"



1 **D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R18.1**
SCALE: 3/32" = 1'-0"



5 **D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R24**
SCALE: 3/32" = 1'-0"



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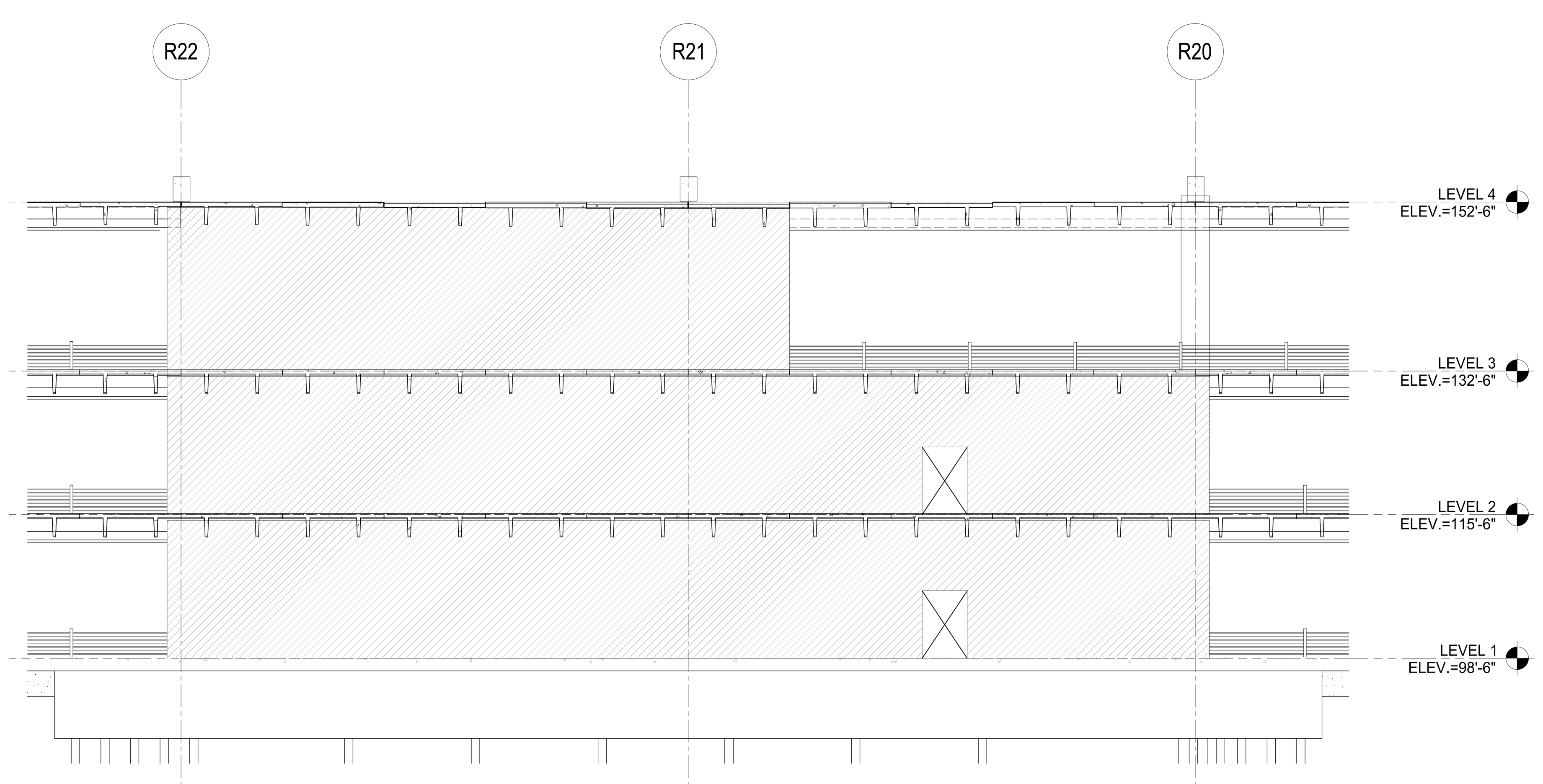
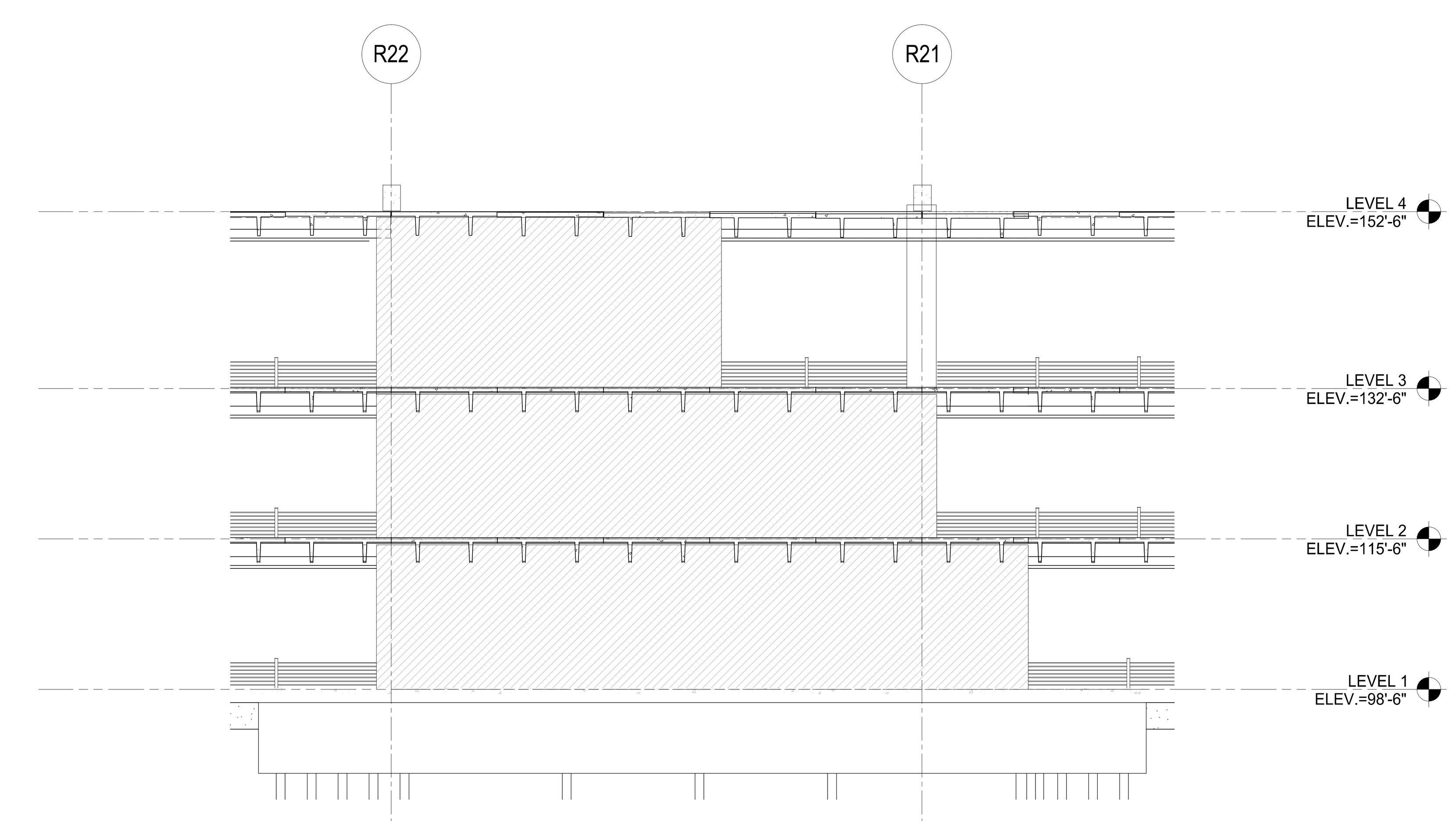


6 **D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D01**
SCALE: 3/32" = 1'-0"



3 **D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D15**
SCALE: 3/32" = 1'-0"

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Tran Systems
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LOS ANGELES, CA 90017
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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

ONT VNY PMD LAX

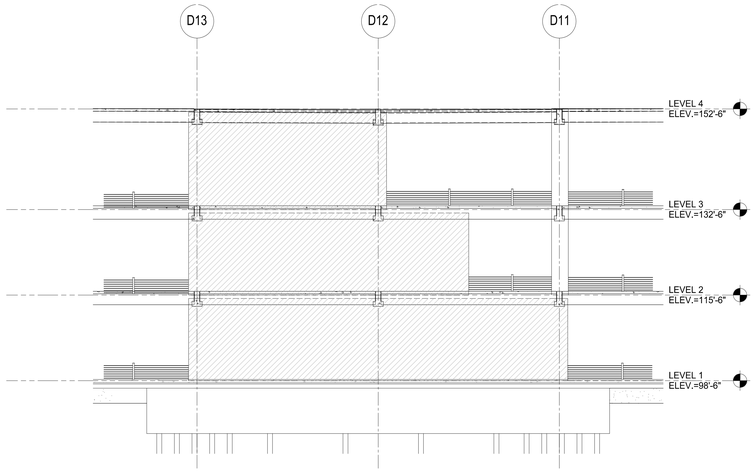
REVISIONS:

MARK	DATE	DESCRIPTION

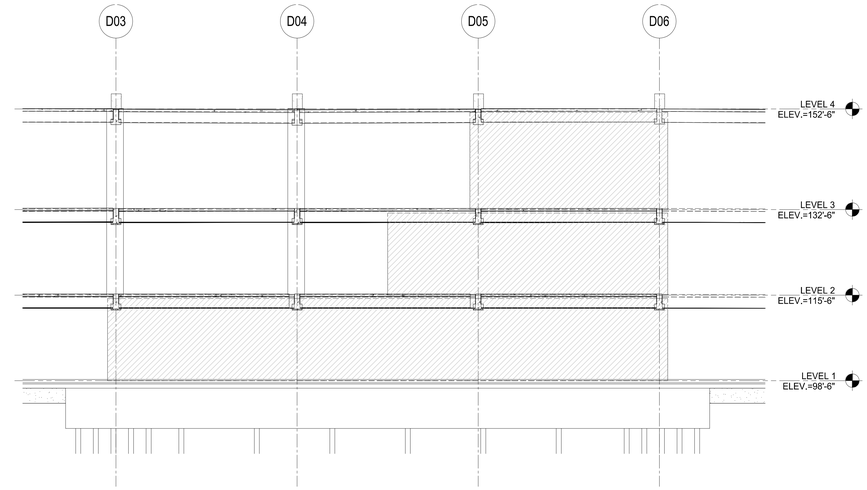
PROJ NO: DA4881
SCALE: 3/32" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D4 BUILDING
SHEAR WALL
ELEVATION

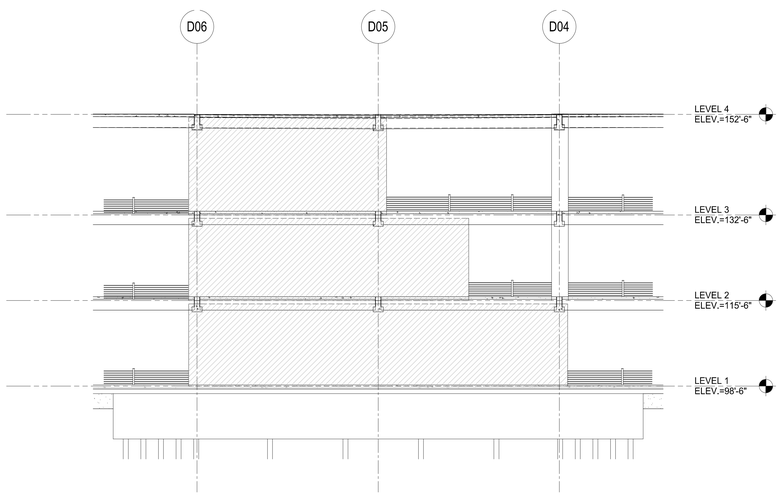
SHEET NO.
4-S-304
SHEET OF



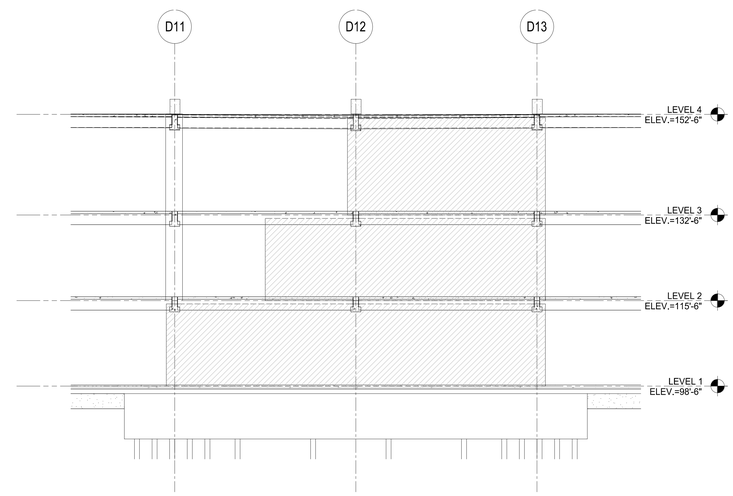
4 D5 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R27
SCALE: 3/32" = 1'-0"



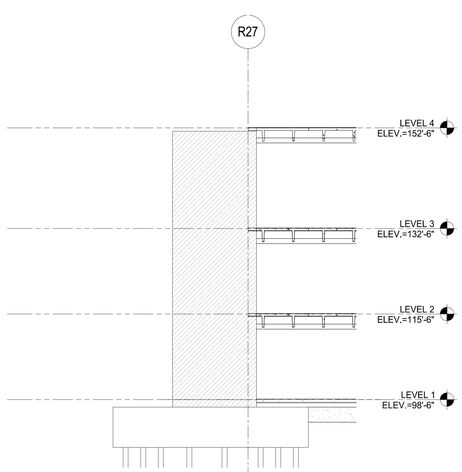
1 D5 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R24.1
SCALE: 3/32" = 1'-0"



5 D5 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID R27
SCALE: 3/32" = 1'-0"



2 D5 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID 24.1
SCALE: 3/32" = 1'-0"



6 D5 BUILDING - BUTTRESS WALL ELEVATION - TYP. AT SOUTH END
SCALE: 3/32" = 1'-0"

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SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 3/32" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D5 BUILDING SHEAR WALL ELEVATION

SHEET NO.
4-S-305
SHEET OF

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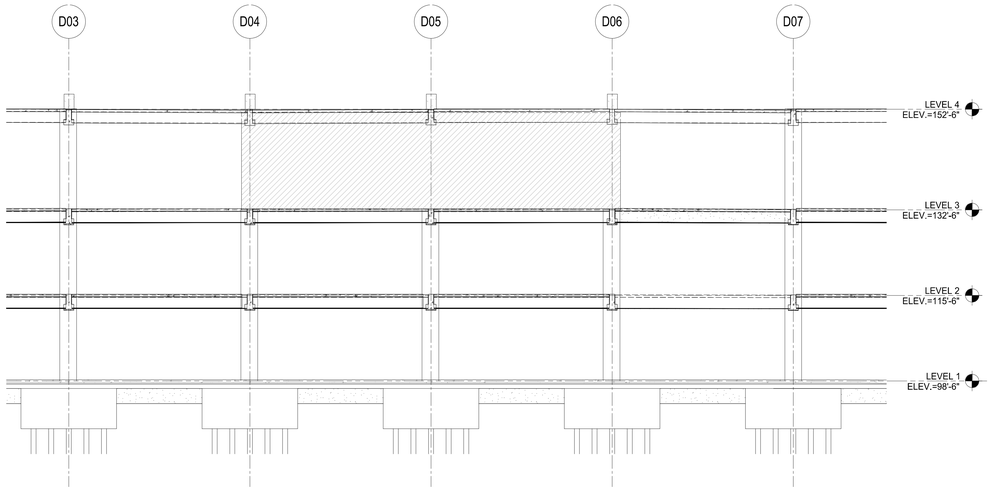
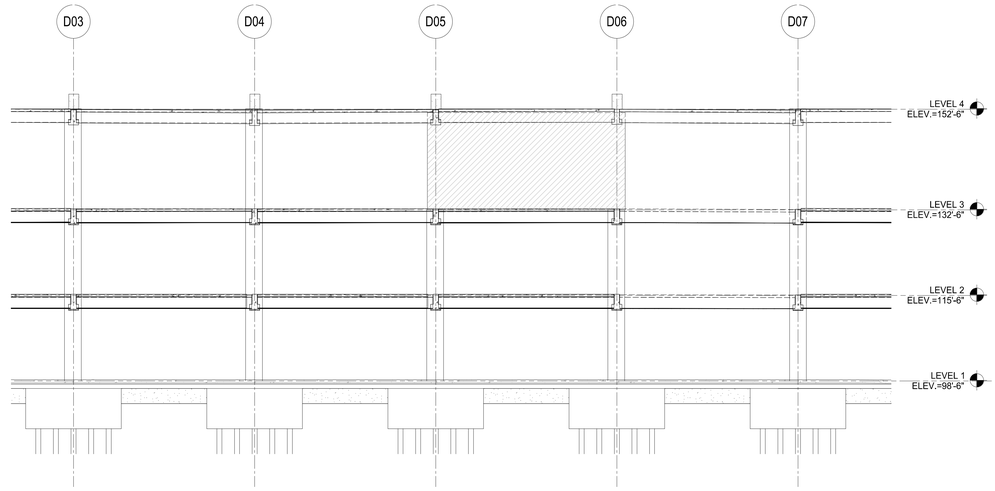
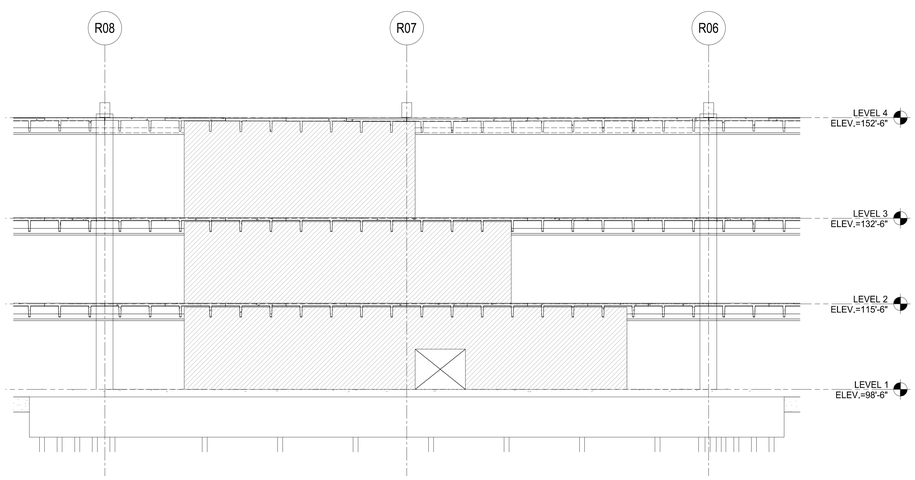


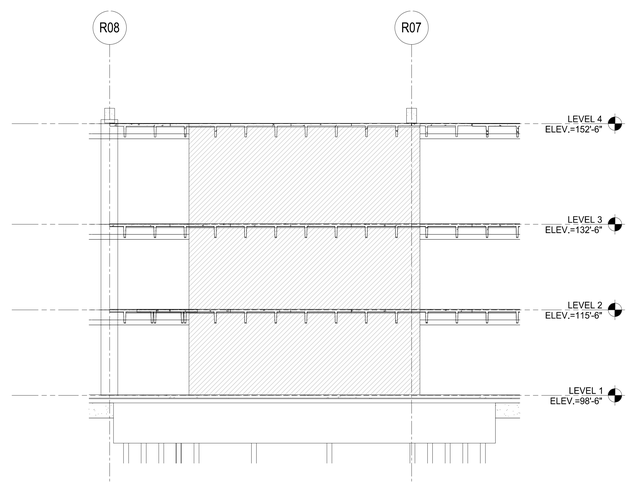
4 **D3 BUILDING - APM SHEAR WALL ELEVATION - GRID R14**
SCALE: 3/32" □1-0"



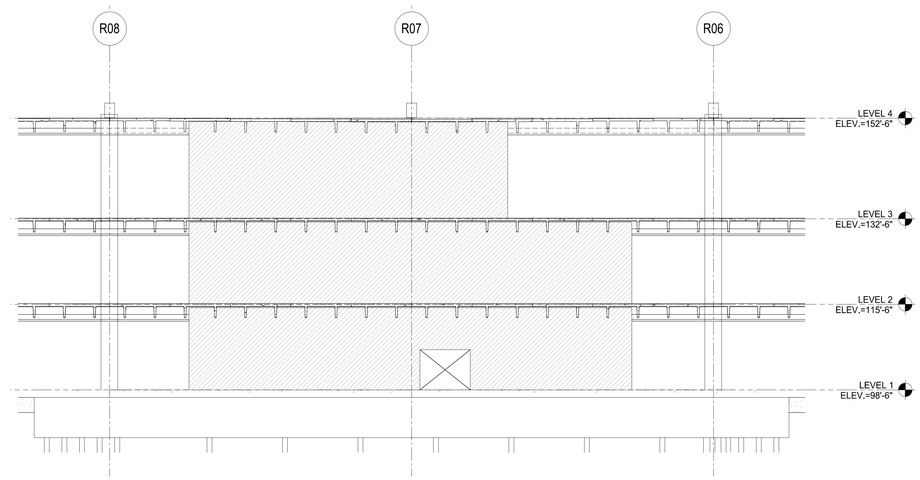
1 **D3 BUILDING - APM SHEAR WALL ELEVATION - GRID R13**
SCALE: 3/32" □1-0"



5 **D2 BUILDING - SHEAR WALL ELEVATION - GRID D10**
SCALE: 3/32" □1-0"



2 **D2 BUILDING - SHEAR WALL ELEVATION - GRID D07**
SCALE: 3/32" □1-0"



3 **D2 BUILDING - SHEAR WALL ELEVATION - GRID D08**
SCALE: 3/32" □1-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo Angele: International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 3/32" □1-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
D BUILDING SHEARWALL ELEVATION

SHEET NO.
4-S-306
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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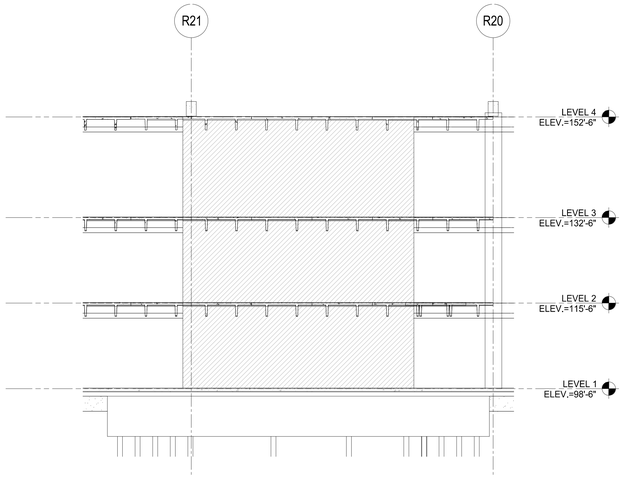
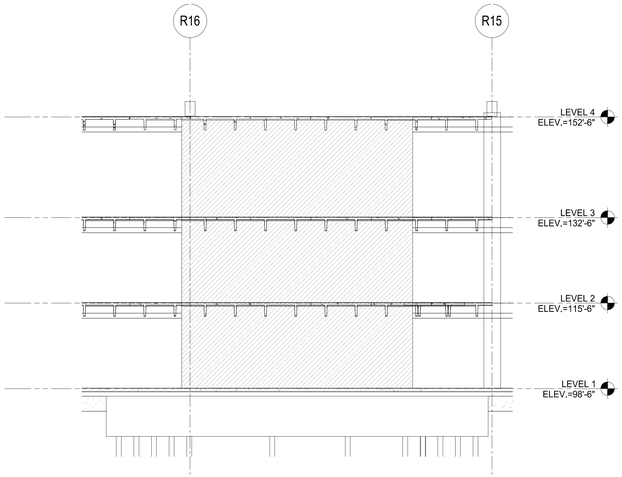


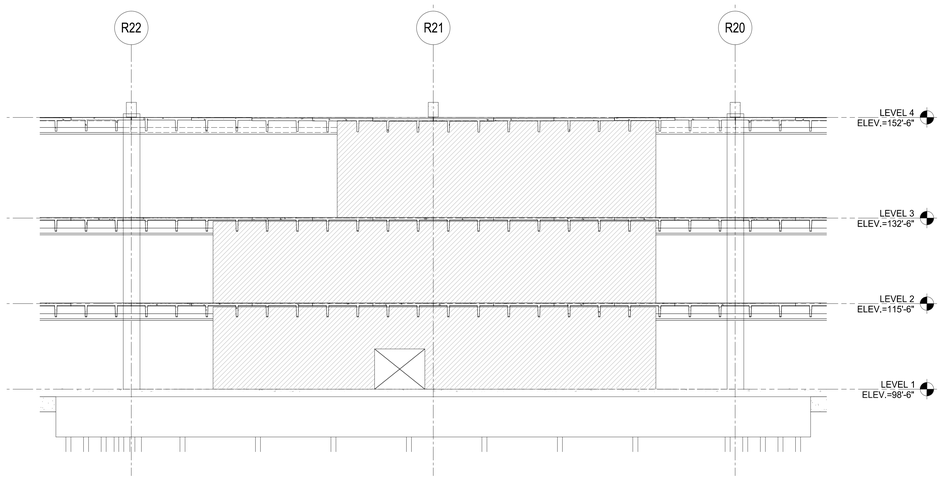
4 D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D07

SCALE: 3/32" □ 1'-0"



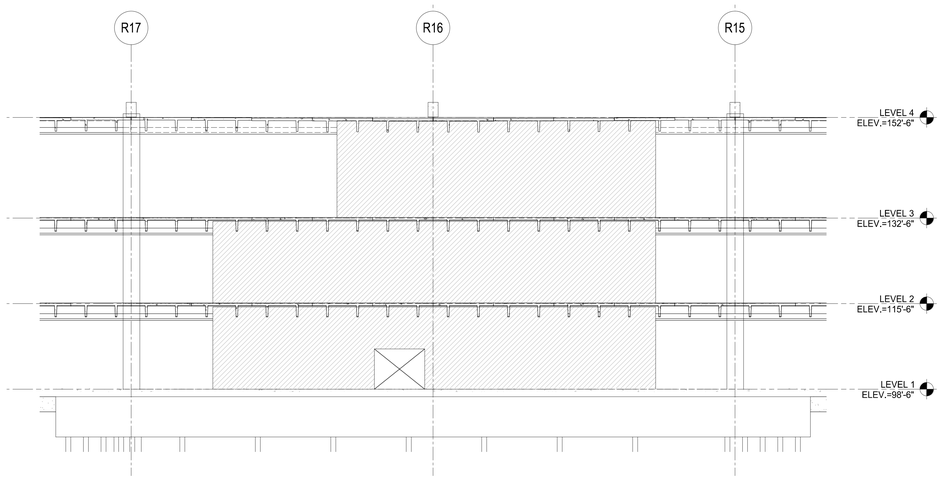
1 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D07

SCALE: 3/32" □ 1'-0"



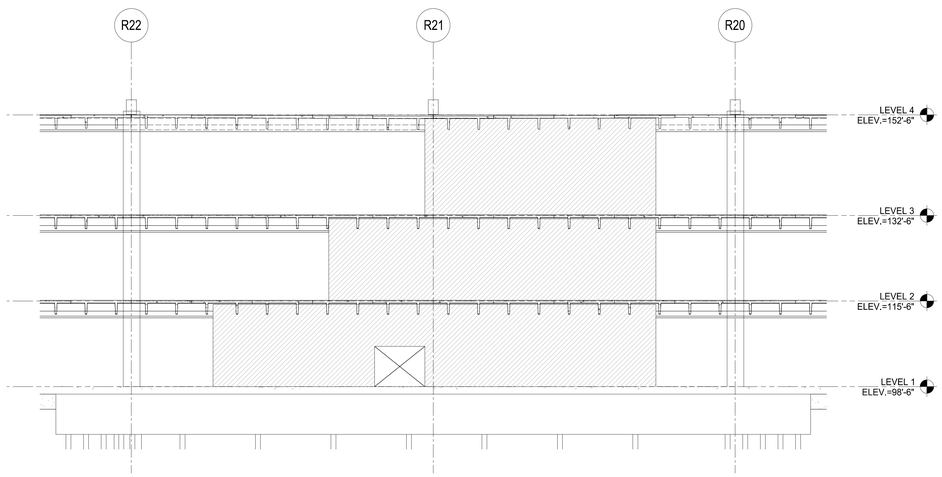
5 D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D08

SCALE: 3/32" □ 1'-0"



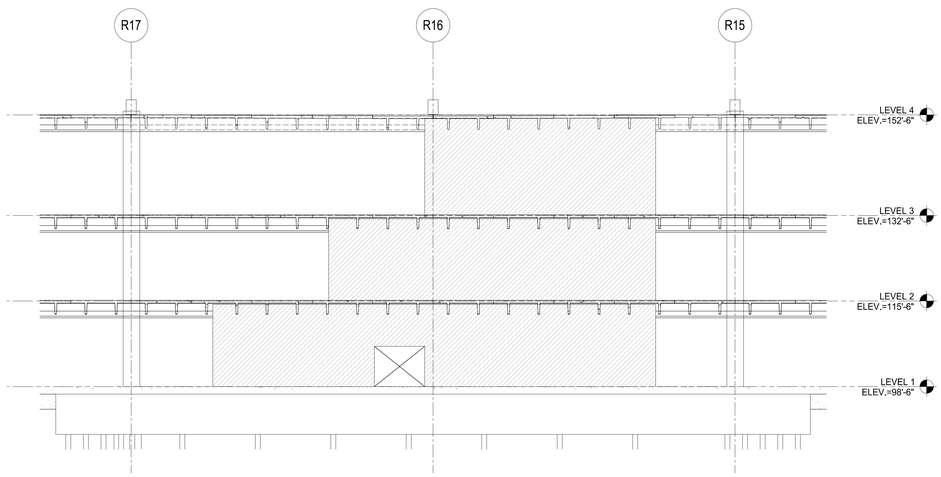
2 D3 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D08

SCALE: 3/32" □ 1'-0"



6 D4 BUILDING - 36" THICK SHEAR WALL ELEVATION - GRID D10

SCALE: 3/32" □ 1'-0"



3 D3 BUILDING - BUTTRESS ELEVATION - GRID D10

SCALE: 3/32" □ 1'-0"

Train Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo. Angele. International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" □ 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

D BUILDING SHEAR WALL ELEVATION

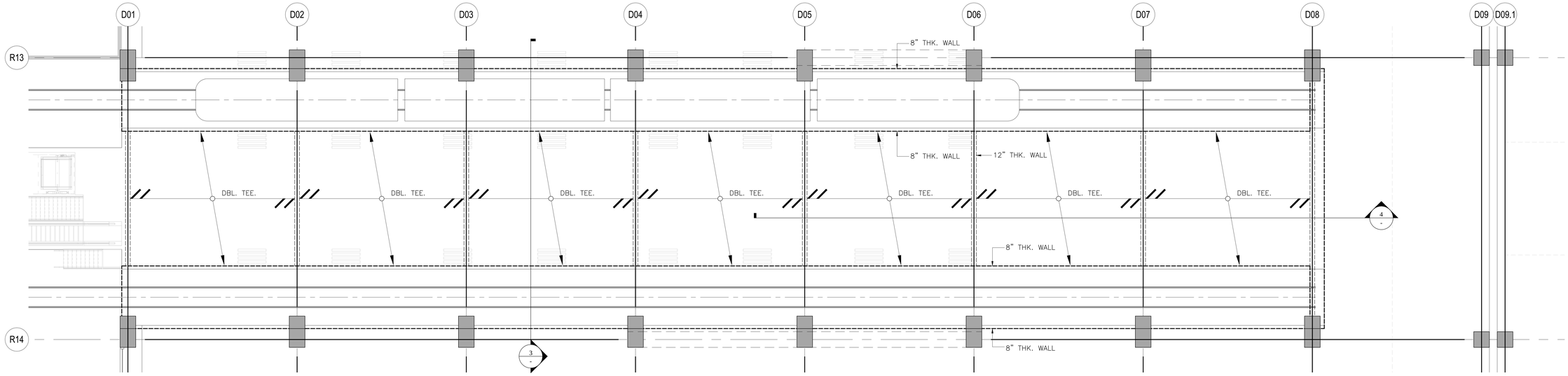
SHEET NO.

4-S-307

SHEET OF

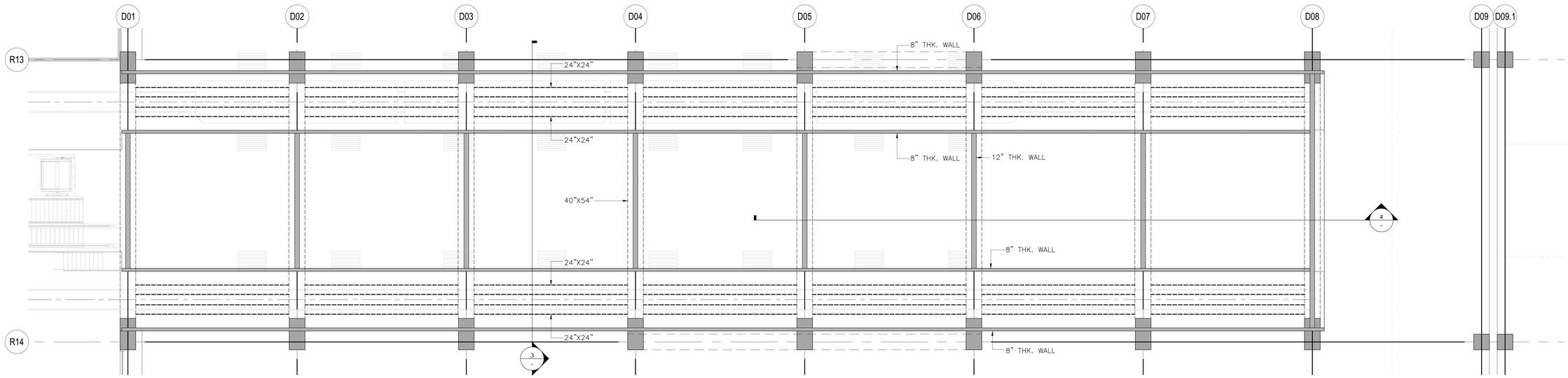
© train - item: ipw_jacobtran - ccsrp-pw1:amadhe_\d0350050\DA4881-4-S-307.dwg, Plotted: Jul 01, 2016 - 9:46am

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



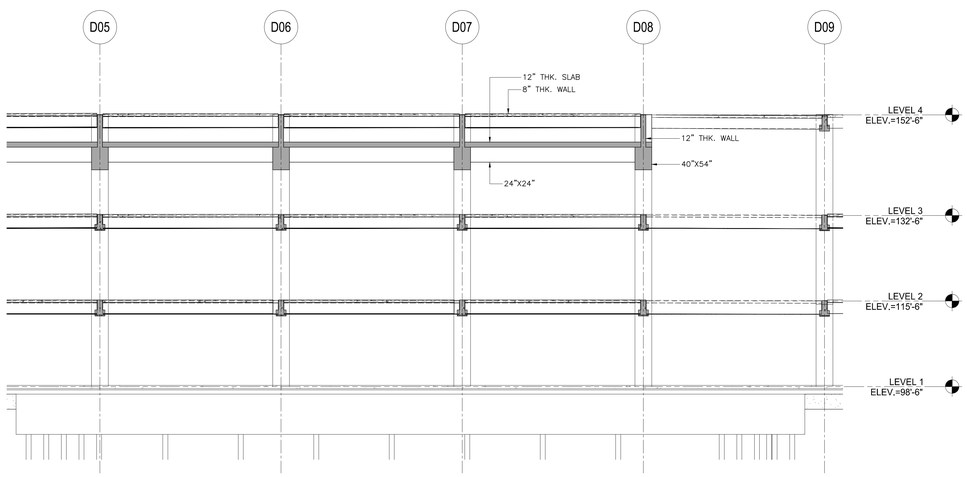
1 D3 BUILDING - APM FRAMING AT ROOF LEVEL

SCALE: 1/8" = 1'-0"



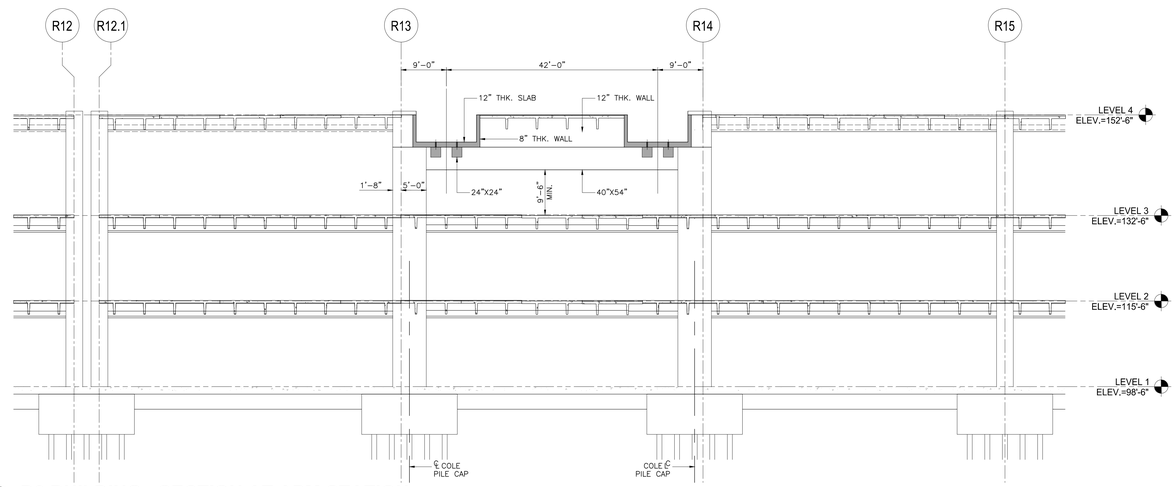
2 D3 BUILDING - APM FRAMING BELOW ROOF LEVEL

SCALE: 1/8" = 1'-0"



4 D3 BUILDING - SECTION AT APM STATION

SCALE: 3/32" = 1'-0"



3 D3 BUILDING - SECTION AT APM STATION

SCALE: 3/32" = 1'-0"

Urban Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594.6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo Angele International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:

D BUILDING
ATM FRAMING
SECTIONS

SHEET NO.

4-S-401

SHEET OF

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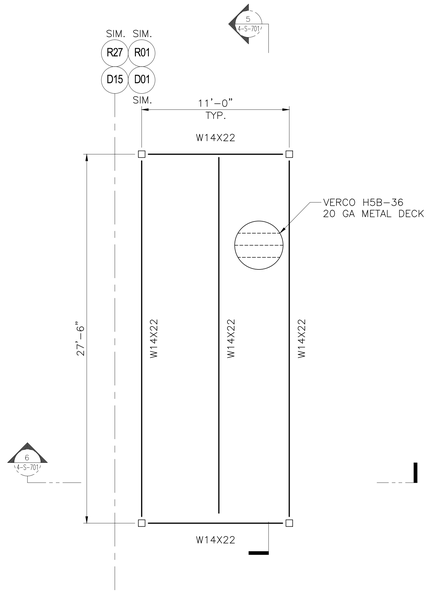
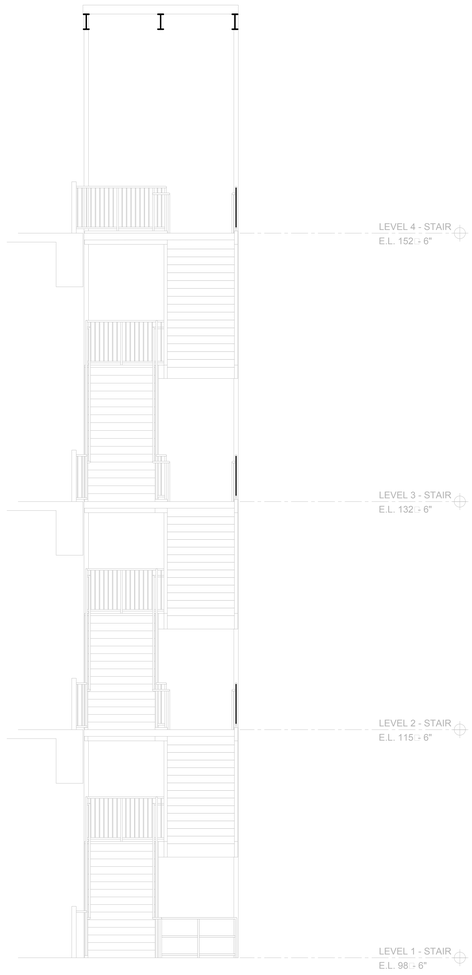
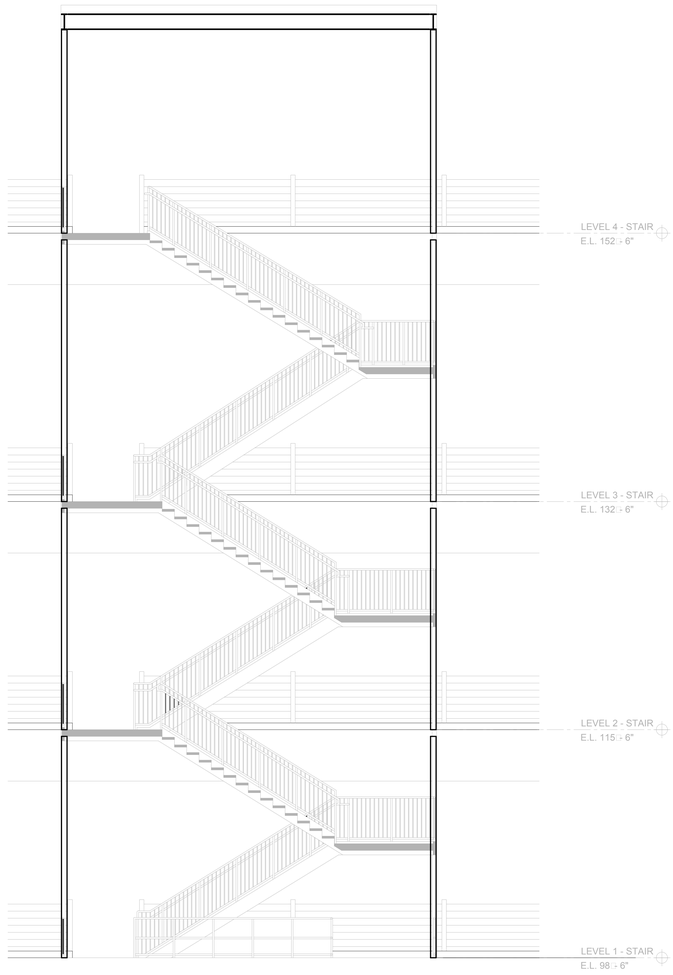


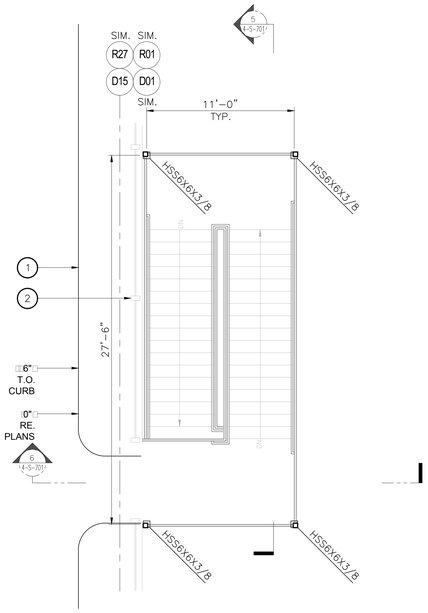
4 BUILDING D - TYP. OPEN STAIR
ROOF LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



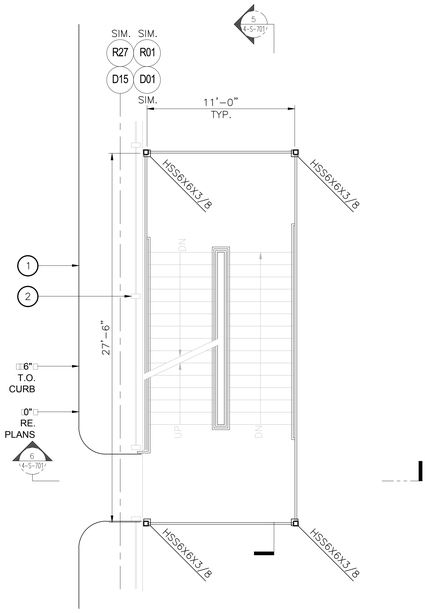
6 BUILDING D - TYP. OPEN STAIR
SECTION 2
SCALE: 1/4" = 1'-0"



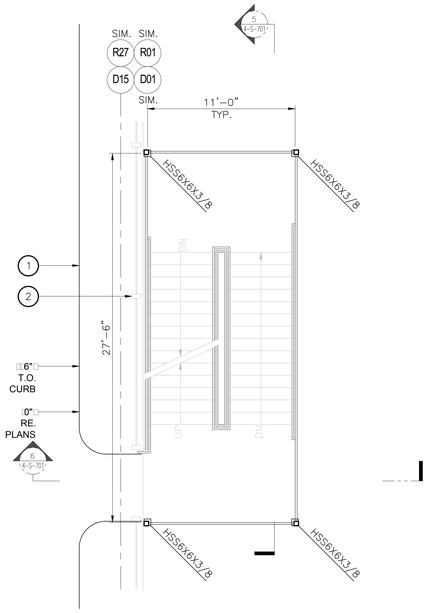
5 BUILDING D - TYP. OPEN STAIR
SECTION 1
SCALE: 1/4" = 1'-0"



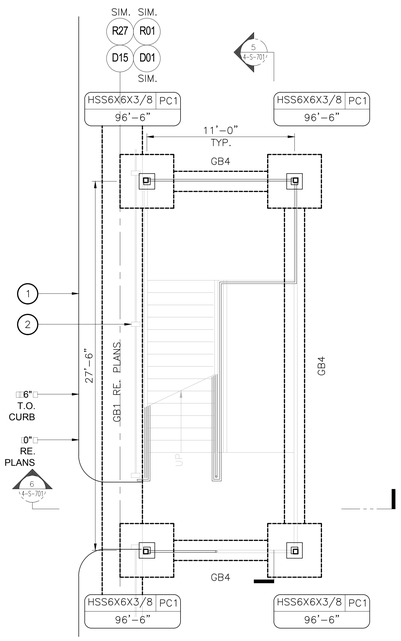
4 BUILDING D - TYP. OPEN STAIR
FOURTH LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



3 BUILDING D - TYP. OPEN STAIR
THIRD LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



2 BUILDING D - TYP. OPEN STAIR
SECOND LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



1 BUILDING D - TYP. OPEN STAIR
FIRST LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR :REFERENCE ELEVATION 0'-0":
   -LEVEL 1 98'-6"
   -LEVEL 2 115'-6"
   -LEVEL 3 132'-6"
   -LEVEL 4 152'-6"
   -LEVEL ROOF 169'-6"
2. X" DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0'-0".
3. GB INDICATES GRADE BEAM TYPE, RE: PLANS
4. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
5. OPENINGS IN WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
6. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
7. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.

KEY PLAN:

1. 6" HIGH CONC. CURB
2. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — C# | PC# — XX'-XX" — PILE CAP TYPE — TOP OF PILE CAP

PLAN LEGEND:

- INDICATES CHANGE IN SLAB ELEVATION
- INDICATES HSS STAIRS COLUMN
- GALVANIZED METAL DECK

GRADE BEAM SCHEDULE.	
GB1	36"X36"
GB4	18"X18"

PILE CAP SCHEDULE		
TYPE	LXBXH	NO OF PILES
PC1	4'-0"X4'-0"X2'-0"	1

PILE SCHEDULE	
SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65'-0"

Transtec Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/4" = 1'-0"
DATE: 07/01/16
DESIGNED BY: AA
DRAWN BY: AM
CHECKED BY: AA

SHEET TITLE:
BUILDING D STAIRS

SHEET NO.
4-S-701
SHEET OF

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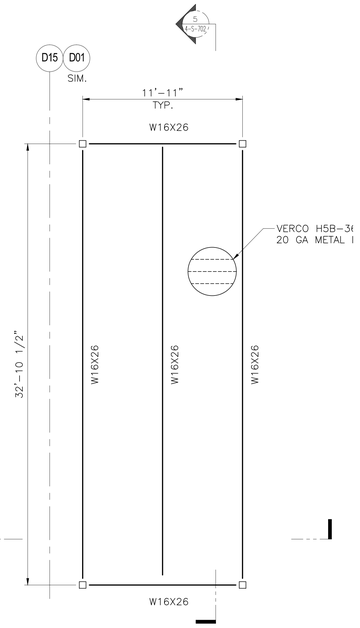
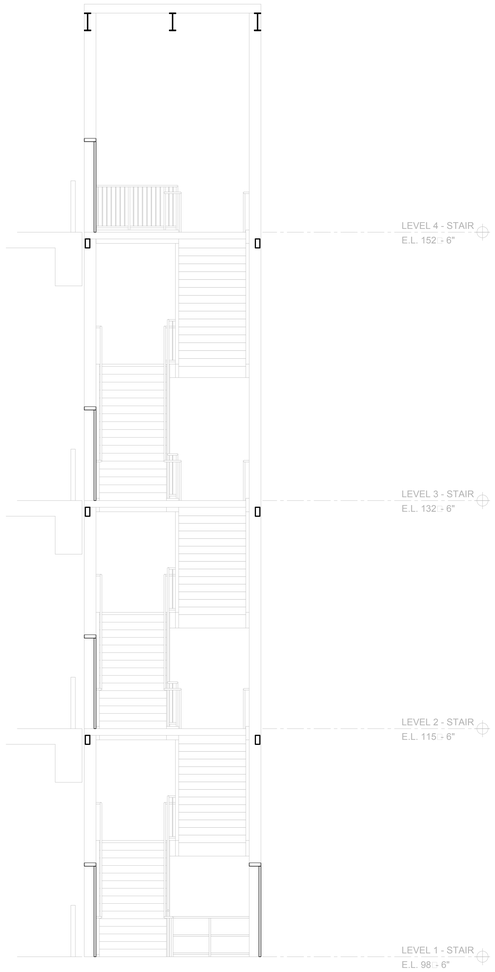
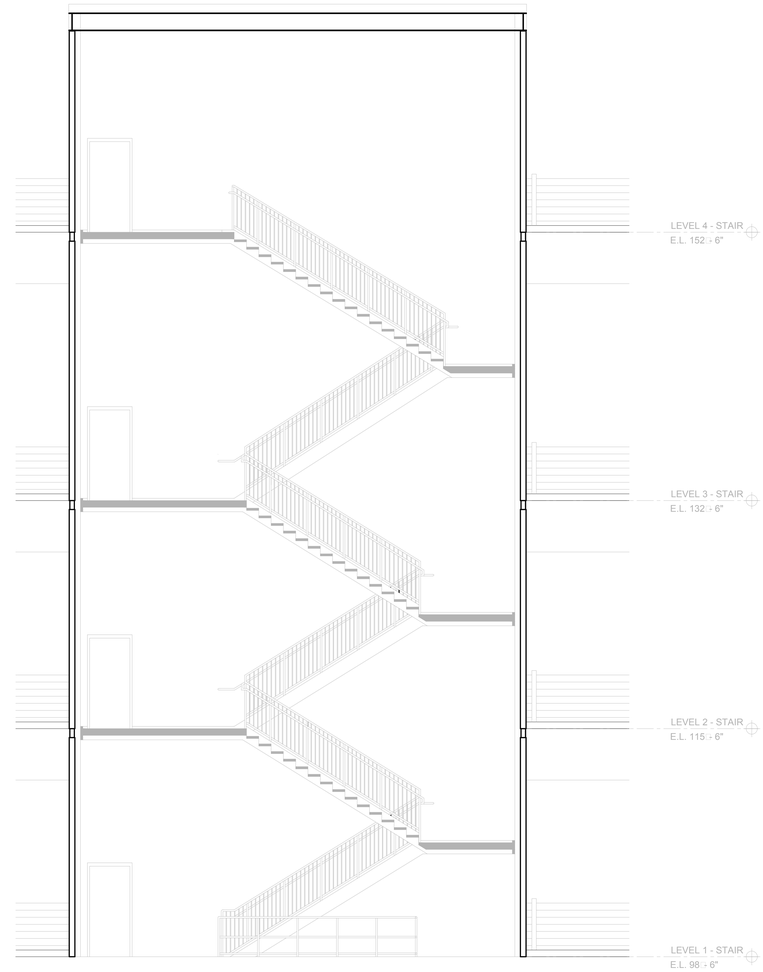


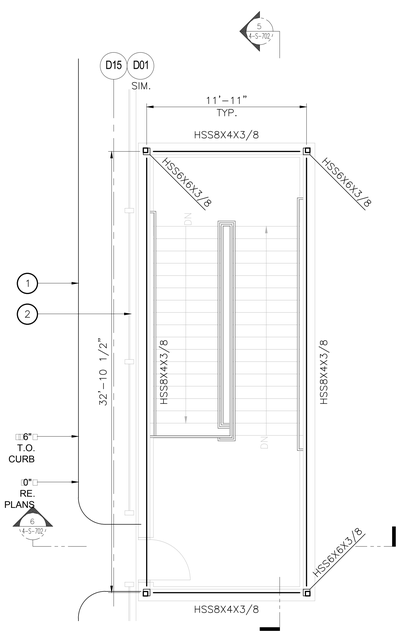
7 BUILDING D - TYP. OPEN STAIR
ROOF LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



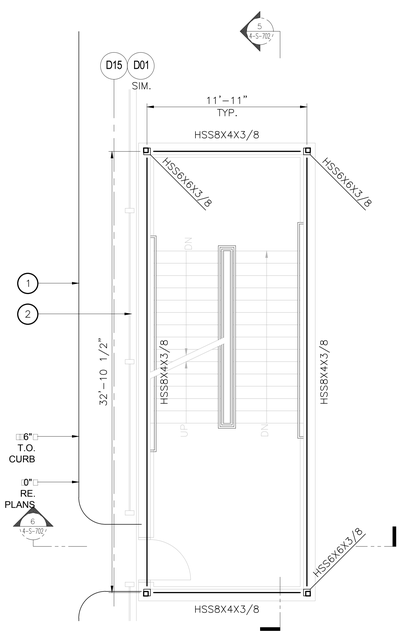
6 BUILDING D - TYP. CLOSED STAIR
SECTION 2
SCALE: 1/4" = 1'-0"



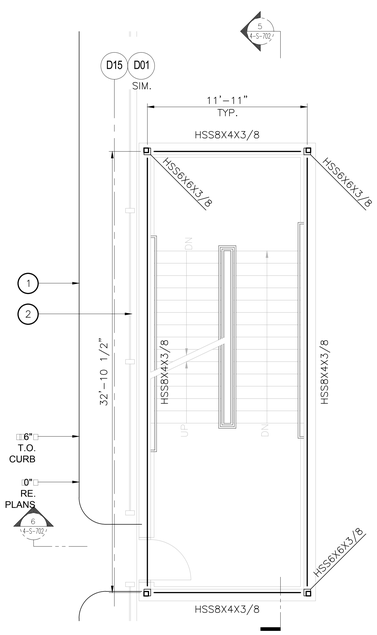
5 BUILDING D - TYP. CLOSED STAIR
SECTION 1
SCALE: 1/4" = 1'-0"



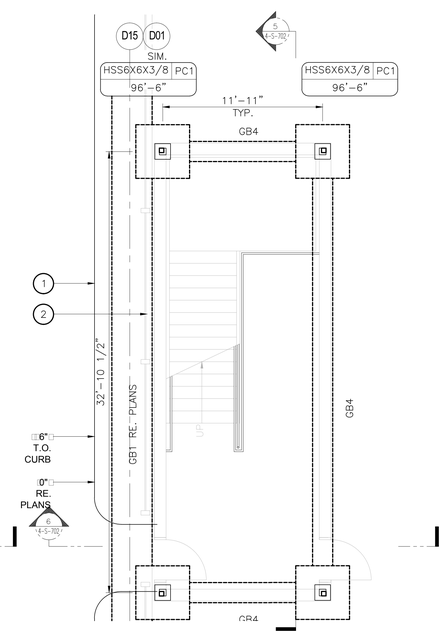
4 BUILDING D - TYP. CLOSED STAIR
FOURTH LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



3 BUILDING D - TYP. CLOSED STAIR
THIRD LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



2 BUILDING D - TYP. CLOSED STAIR
SECOND LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"



1 BUILDING D - TYP. CLOSED STAIR
FIRST LEVEL STAIR PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. TOP OF FINISH FLOOR :REFERENCE ELEVATION 0:-0":
   -LEVEL 1 :98:-6"
   -LEVEL 2 :115:-6"
   -LEVEL 3 :132:-6"
   -LEVEL 4 :152:-6"
   -LEVEL ROOF :169:-6"
2. :X": DENOTES FINISHED FLOOR ELEVATION IN RELATION TO REFERENCE LEVEL 1 ELEVATION 0:-0".
3. :GB: INDICATES GRADE BEAM TYPE, RE: PLANS
4. LOCATE COLUMNS AND BEAMS CENTERED ON GRIDS U.N.O.
5. OPENINGS IN WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
6. RE: ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
7. RE: ARCHITECTURAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPES AND DRAIN LOCATIONS AND DETAILS. SLOPE FLOOR TO FLOOR DRAINS.

KEY PLAN:

1. 6" HIGH CONC. CURB
2. CABLE BARRIER

PLAN LEGEND:

COLUMN TYPE — C# | PC# — PILE CAP TYPE
XX'-XX" — TOP OF PILE CAP

PLAN LEGEND:

INDICATES CHANGE IN SLAB ELEVATION

INDICATES HSS STAIRS COLUMN

GALVANIZED METAL DECK

GRADE BEAM SCHEDULE.	
GB1	36"X36"
GB4	18"X18"

PILE CAP SCHEDULE		
TYPE	LXBXH	NO OF PILES
PC1	4:-0"X4:-0"X2:-0"	1

PILE SCHEDULE	
SIZE	DEPTH BELOW BOTTOM OF PILE CAP
16"X16"	65:-0"

Tram Systems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo :Angele: International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO:	DA4881
SCALE:	1/4" 1:-0"
DATE:	07/01/16
DESIGNED BY:	AA
DRAWN BY:	AM
CHECKED BY:	AA

SHEET TITLE:
BUILDING D
STAIRS

SHEET NO.
4-S-702
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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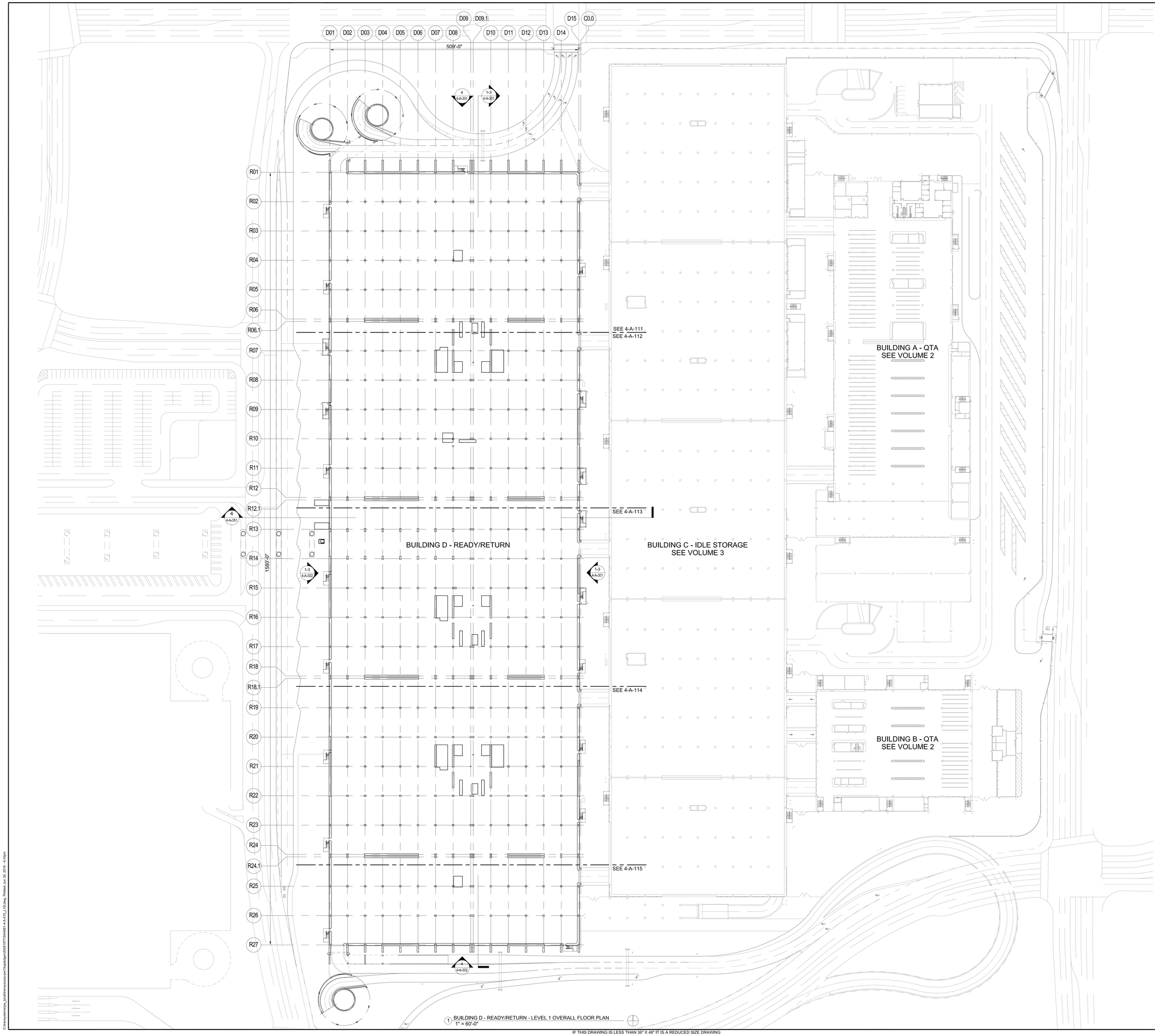

1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL FLOOR PLAN
1" = 60'-0"

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY CHIEF AIRPORTS ENGINEER

ONE LAX PMD

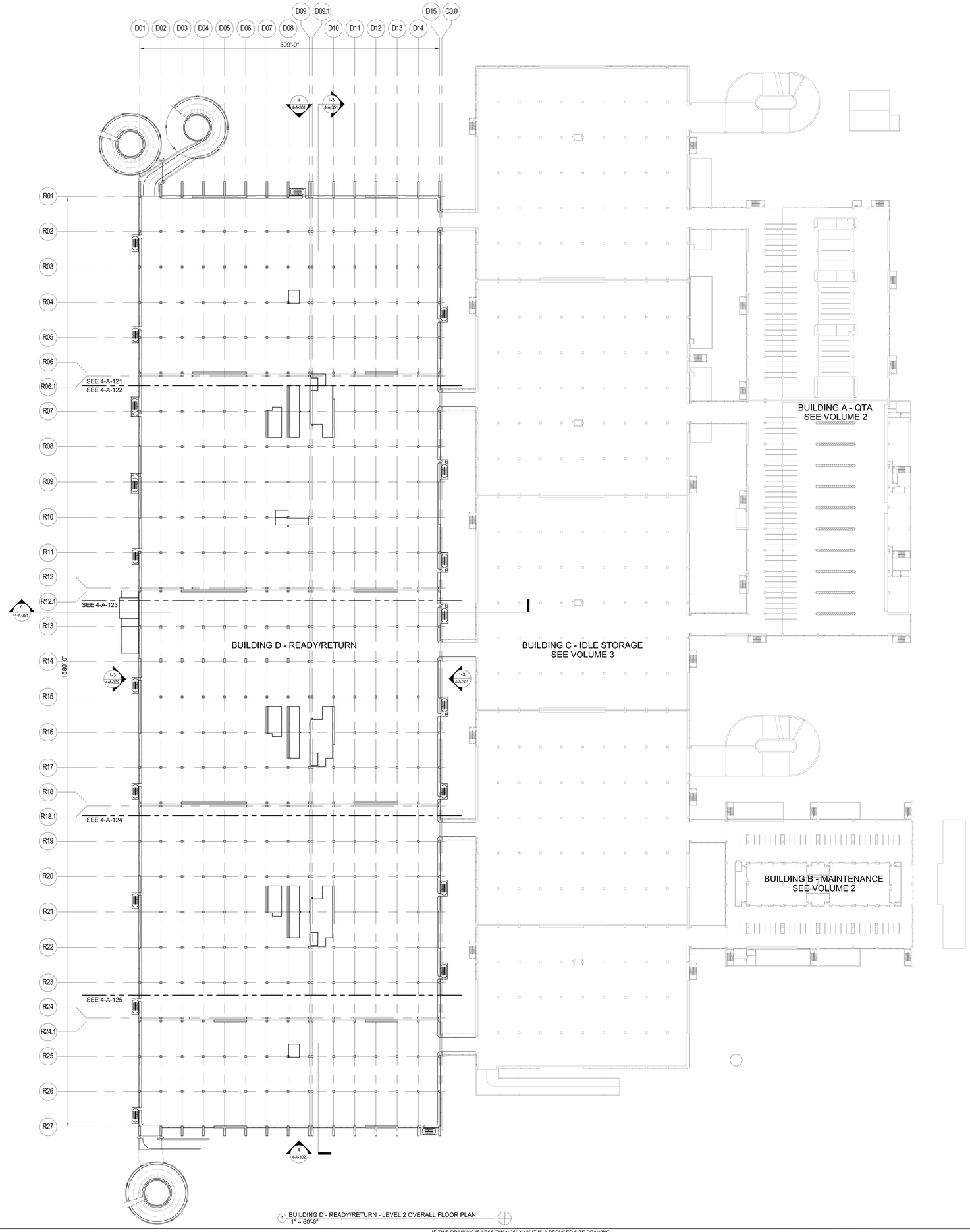
REVISIONS:

MARK	DATE	DESCRIPTION

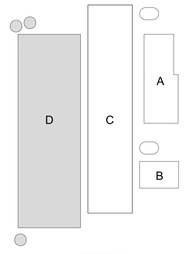
PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 1
OVERALL
FLOOR PLAN

SHEET NO.
4-A-010
SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL FLOOR PLAN
1" = 60'-0"



KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

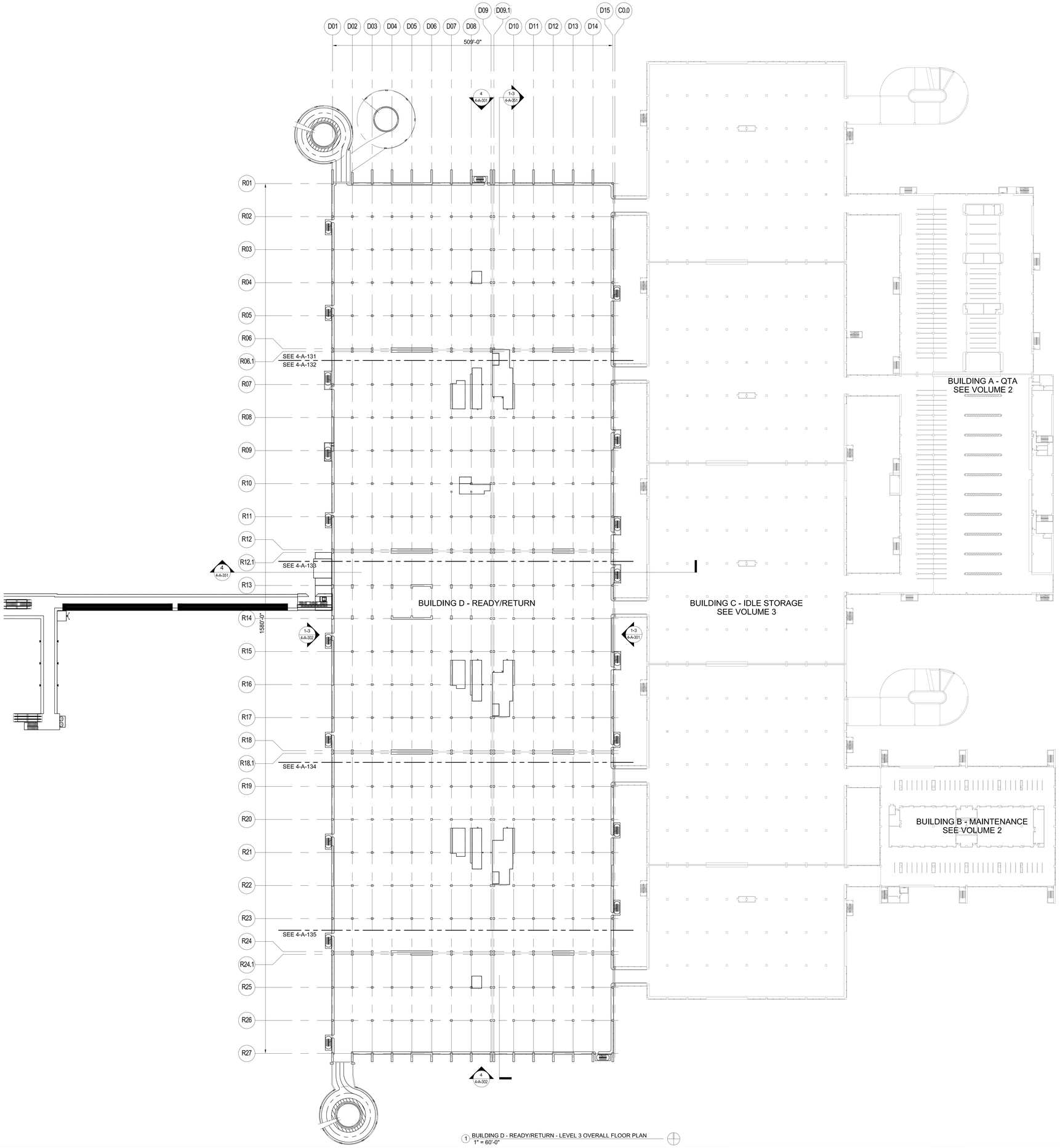
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

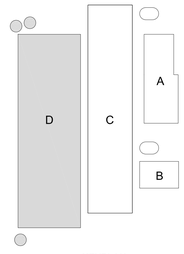
SHEET TITLE:
READY/ RETURN LEVEL 2 OVERALL FLOOR PLAN

SHEET NO.
4-A-020

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 3 OVERALL FLOOR PLAN
1" = 60'-0"



KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
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Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

REVISIONS:

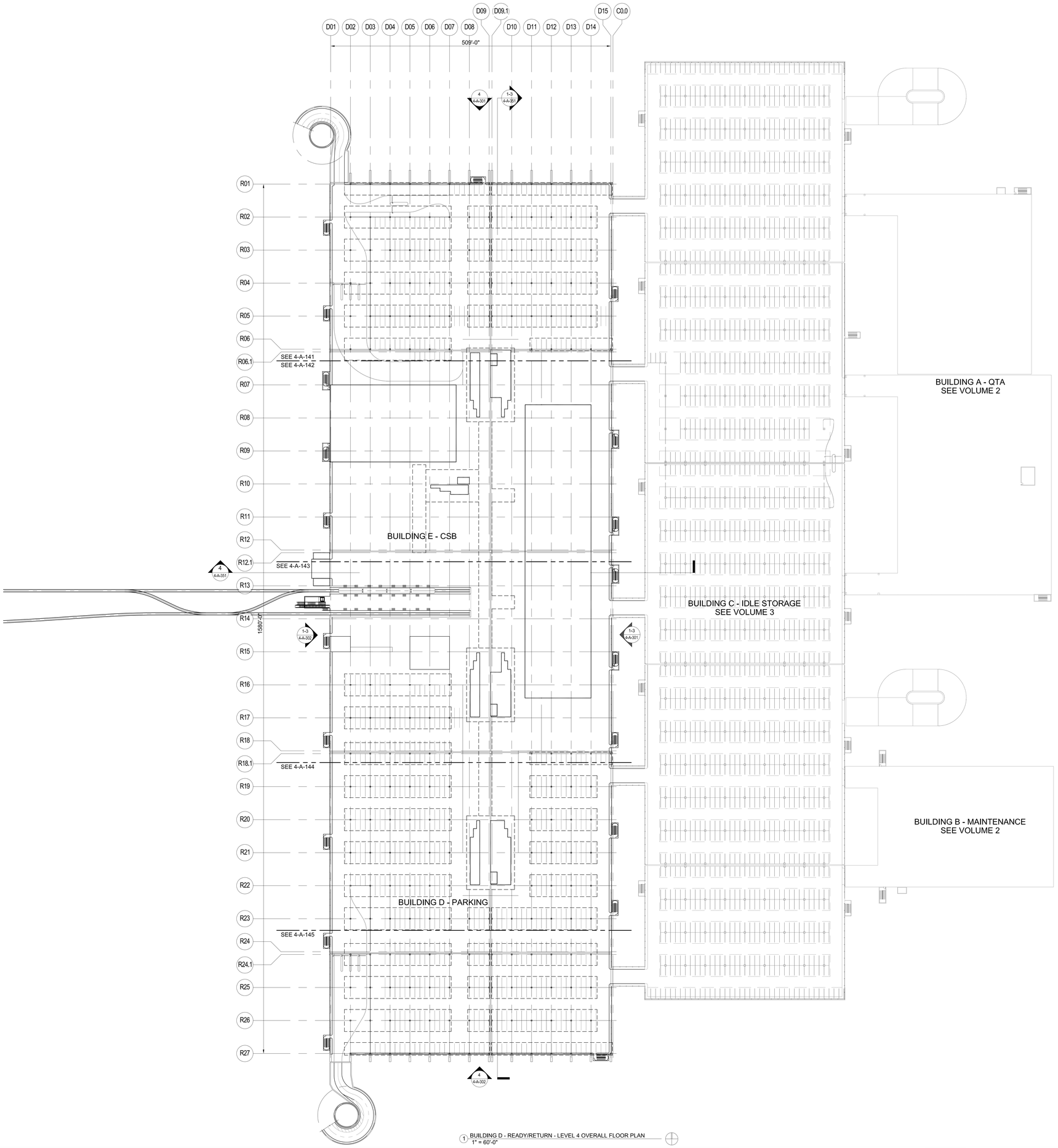
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

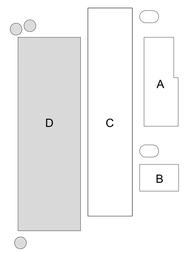
SHEET TITLE:
READY/ RETURN LEVEL 3 OVERALL FLOOR PLAN

SHEET NO.
4-A-030

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 4 OVERALL FLOOR PLAN
1" = 60'-0"



KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

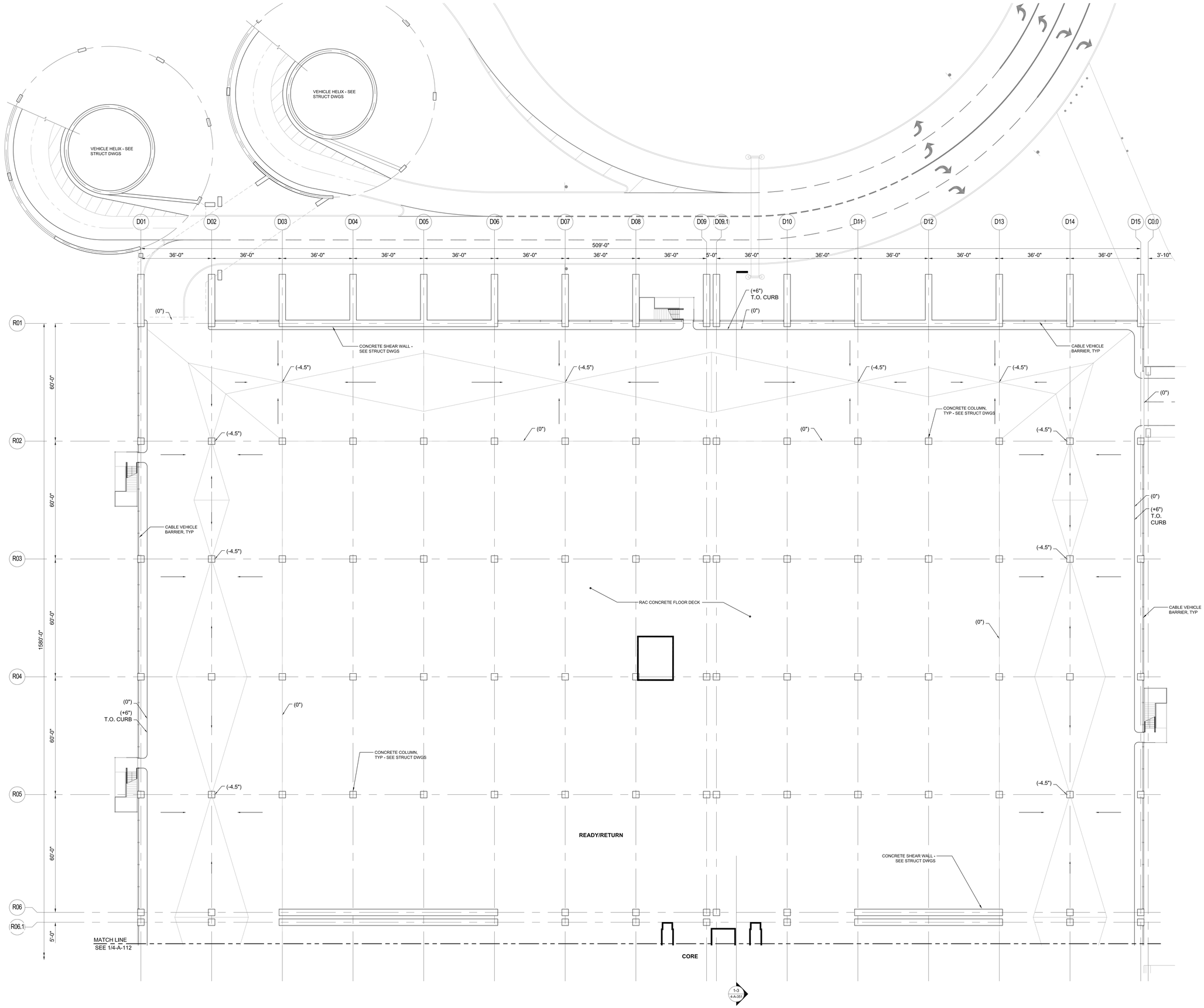
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 4
OVERALL
FLOOR PLAN

SHEET NO.
4-A-040

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 1
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 SOUTH GRAND
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LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

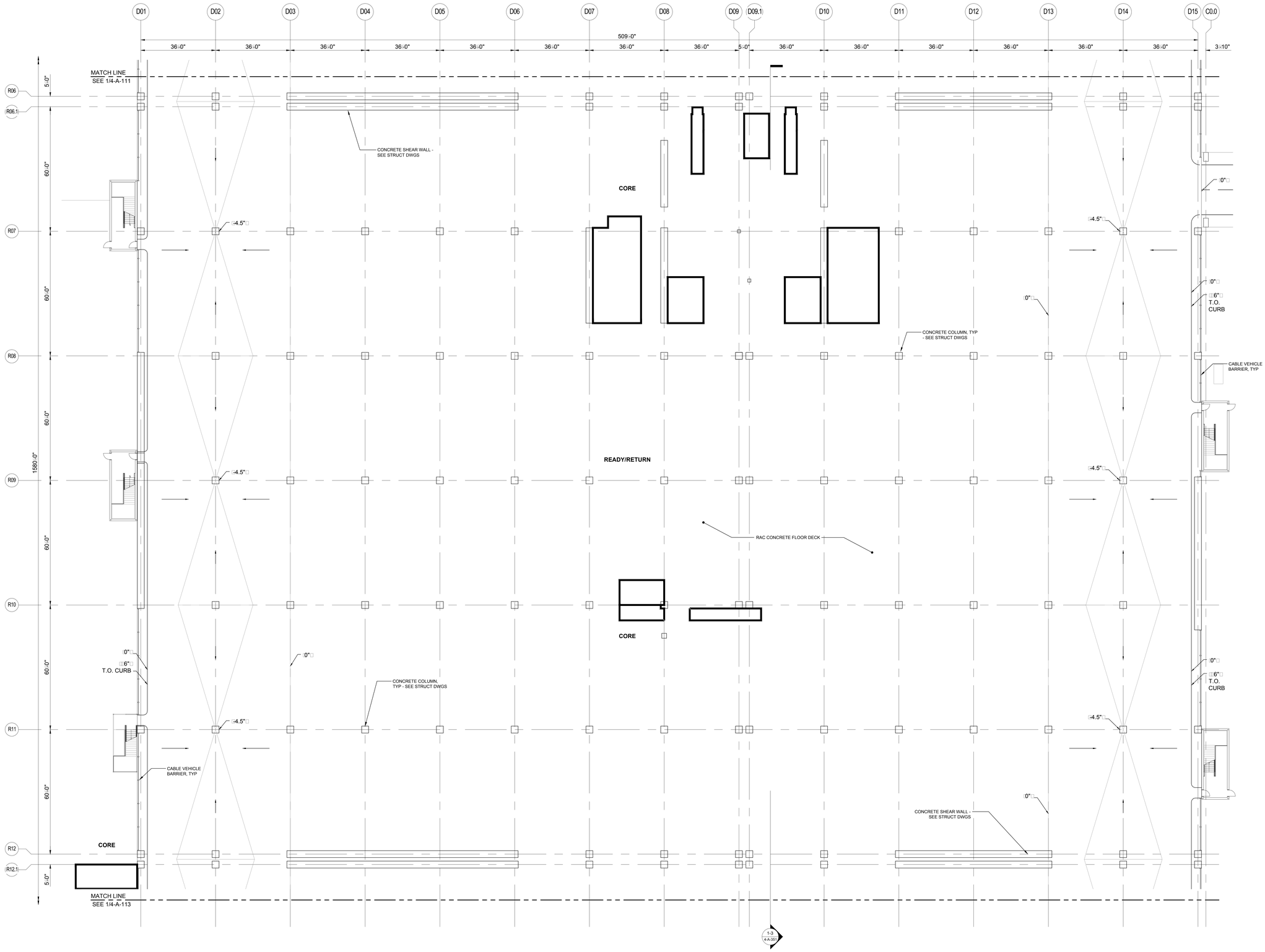
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN LEVEL 1 FLOOR PLAN

SHEET NO.
4-A-111

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 2
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

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APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

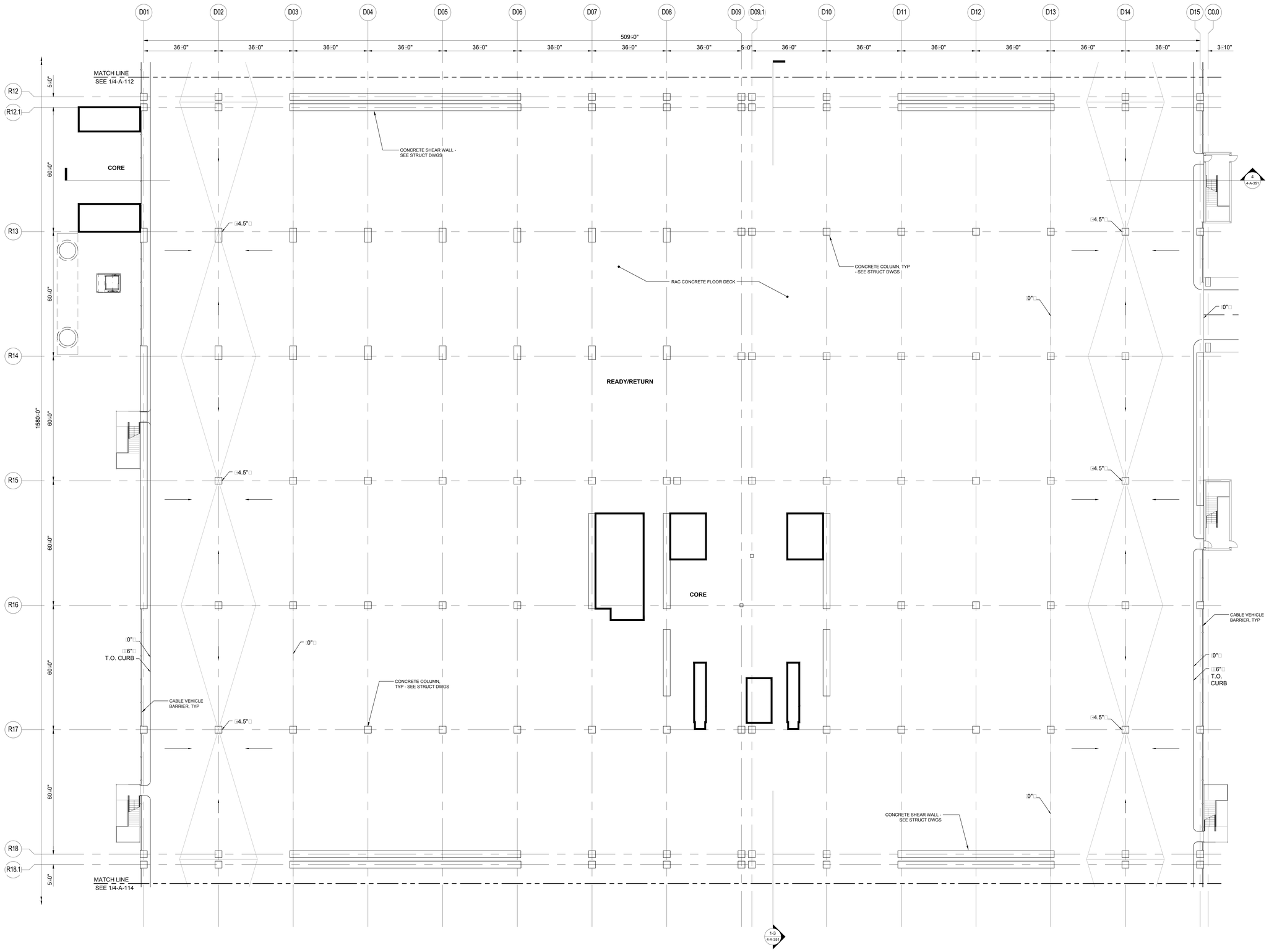
PROJ NO:	DA4881
SCALE:	1/16" = 1'-0"
DATE:	07/01/2016
DESIGNED BY:	J. J
DRAWN BY:	JN
CHECKED BY:	NL

SHEET TITLE:
READY/ RETURN
LEVEL 1
FLOOR PLAN

SHEET NO.
4-A-112
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

© Tran - : item \tex_local\tran : : corp-pw1\ acadgal\60281972\DA4881-4-A-112_1.D.dwg Plotted: Jun 30, 2016 - 4:20pm



1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 3
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
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SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

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CONSULTANTS:

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Los Angeles International Airport

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CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

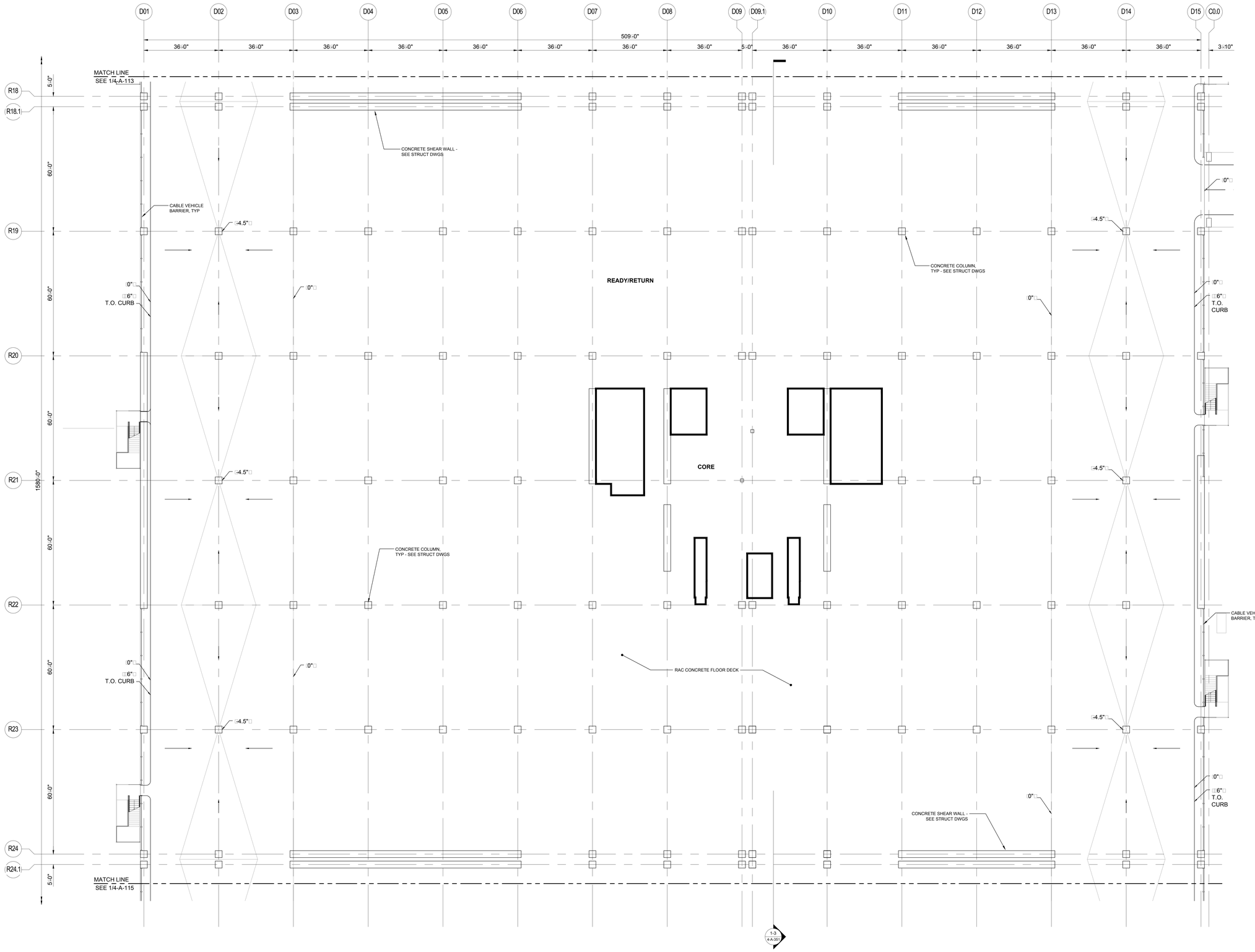
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 1
FLOOR PLAN

SHEET NO.
4-A-113
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\cad\ - item \pw_\location\ - corp.pw\1 apdsgnr\0028197\DA4881-4-A-113_LD.dwg, Plotted Jun 30, 2016 - 4:20pm



1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 4
1/16" = 1'-0"

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 1
FLOOR PLAN

SHEET NO.
4-A-114
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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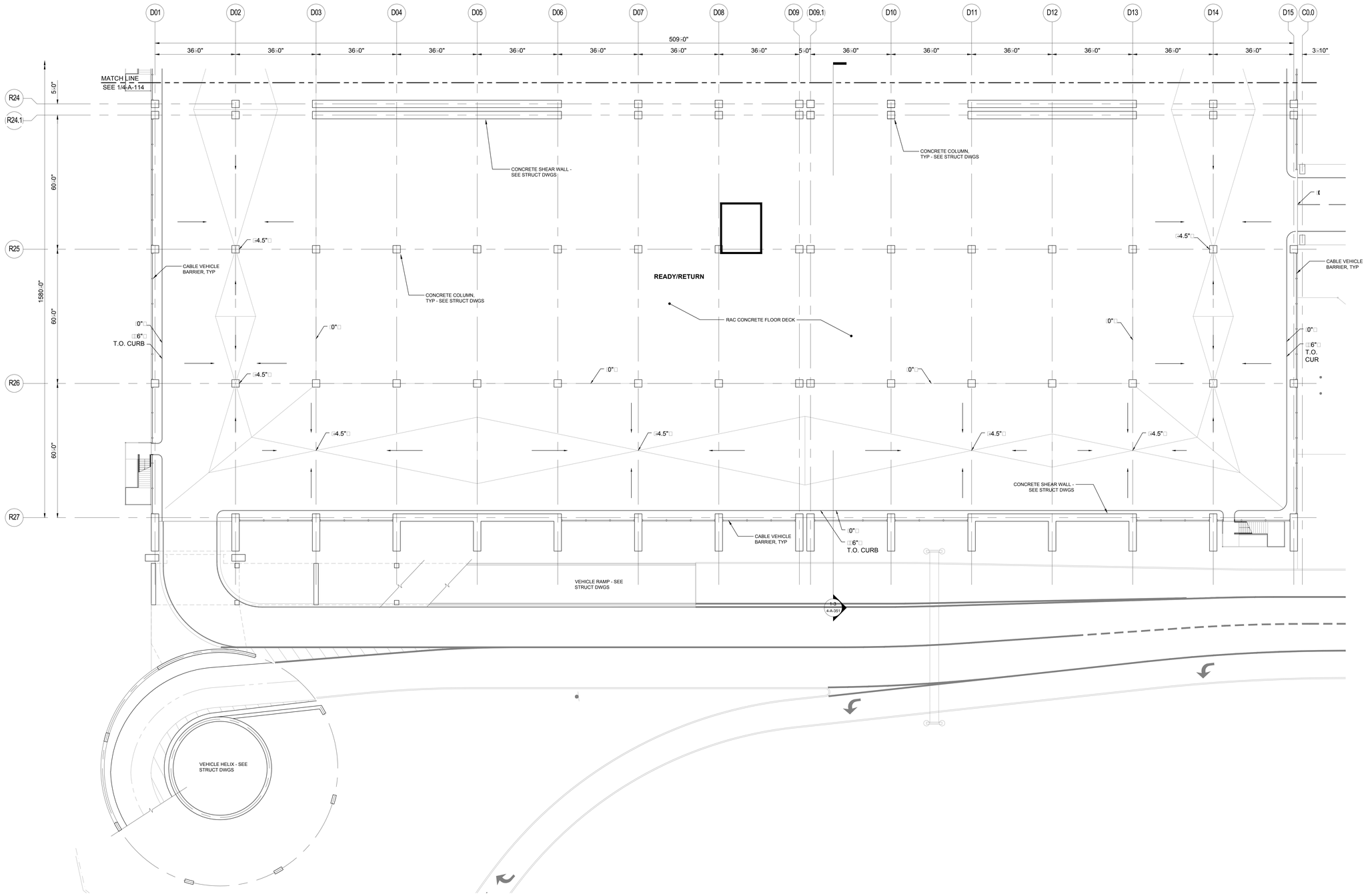
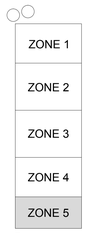


1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 5
1/16" = 1'-0"



BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
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FAX: 562. 594-6975

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Los Angeles International Airport

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CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

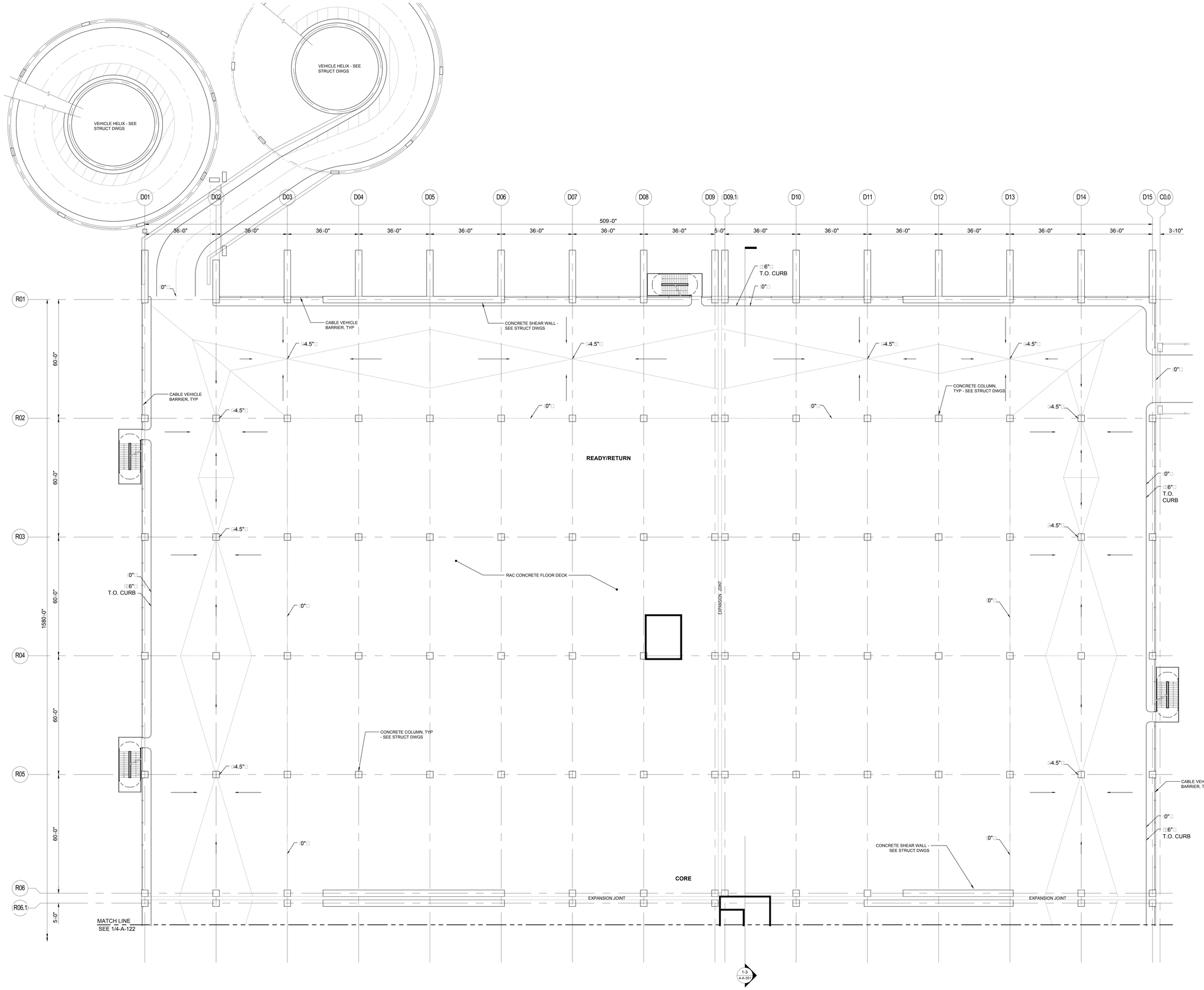
SHEET TITLE:
READY/ RETURN
LEVEL 1
FLOOR PLAN

SHEET NO.
4-A-115

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\tran - tem\pw_00a4ktan - (corp.pw\1 apadgan\d0281977\DA4881-4-A-115_L1D.dwg, Plotted: Jun 30, 2016 - 4:20pm



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 1
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

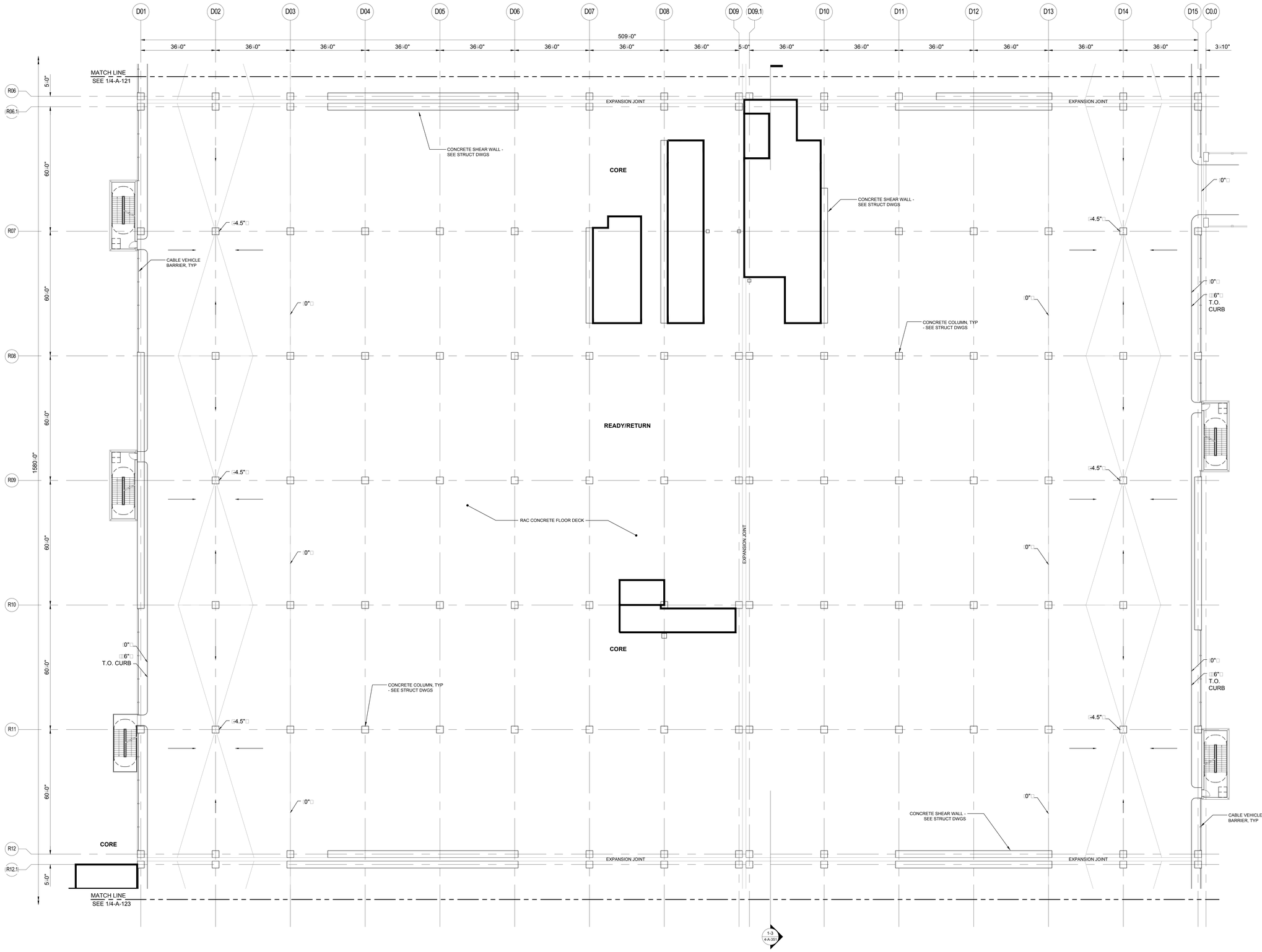
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN LEVEL 2 FLOOR PLAN

SHEET NO.
4-A-121
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

© tran - item: tpw_localtran - copy-pen?: sdedgar/6028197/DA4881-4-A-121_LD1.dwg Plotted: Jun 30, 2016 - 4:30pm



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 2
1/16" = 1'-0"

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562 594-6974
FAX: 562 594-6975

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CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER
APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

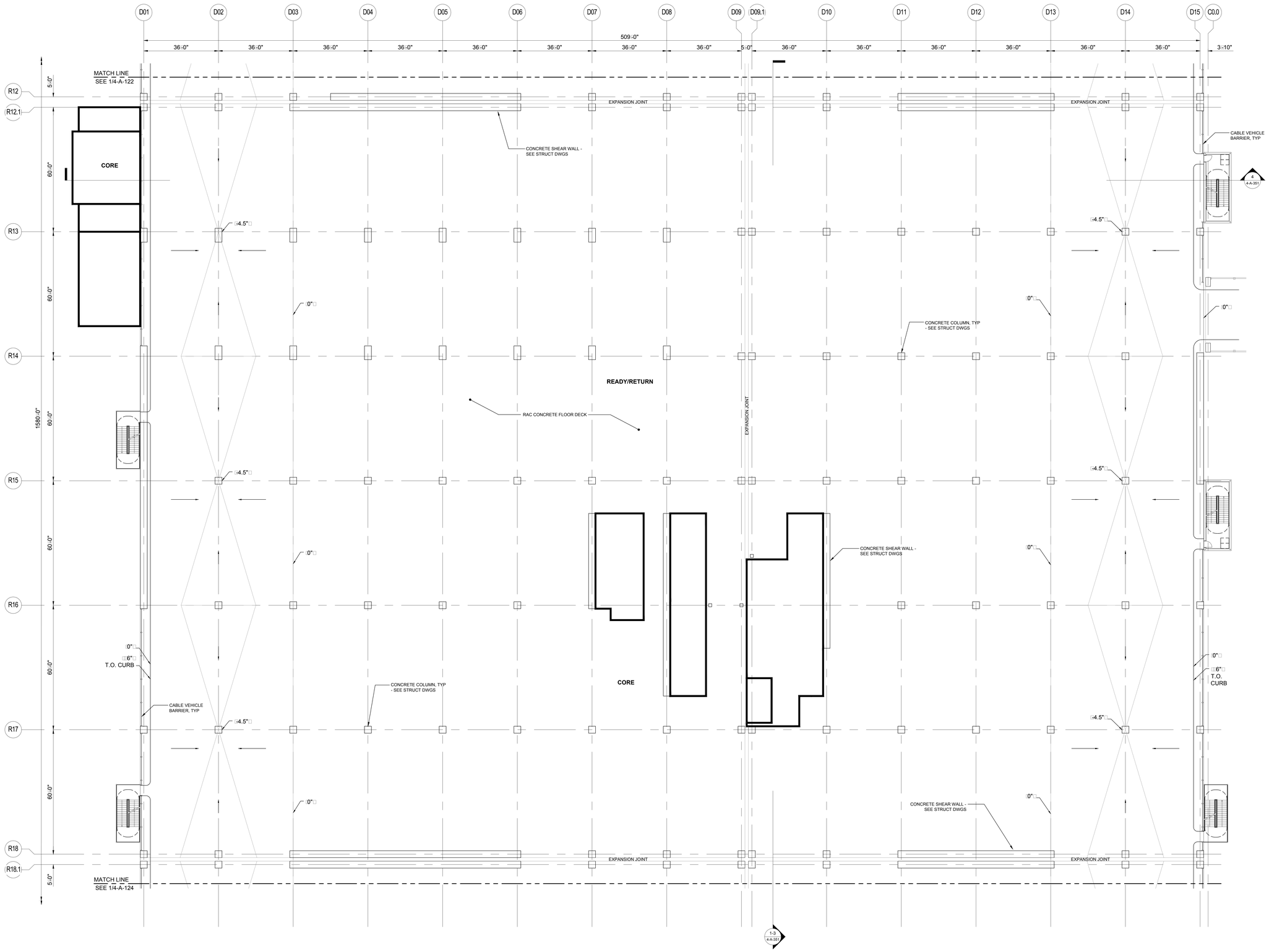
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-A-122
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\Tran - Item \lax_local\tran - copy.pwt? solidsgd\60319797\DA4881-4-A-122_LEV.dwg Plotted: Jun 30, 2016 - 4:30pm



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 3
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-A-123
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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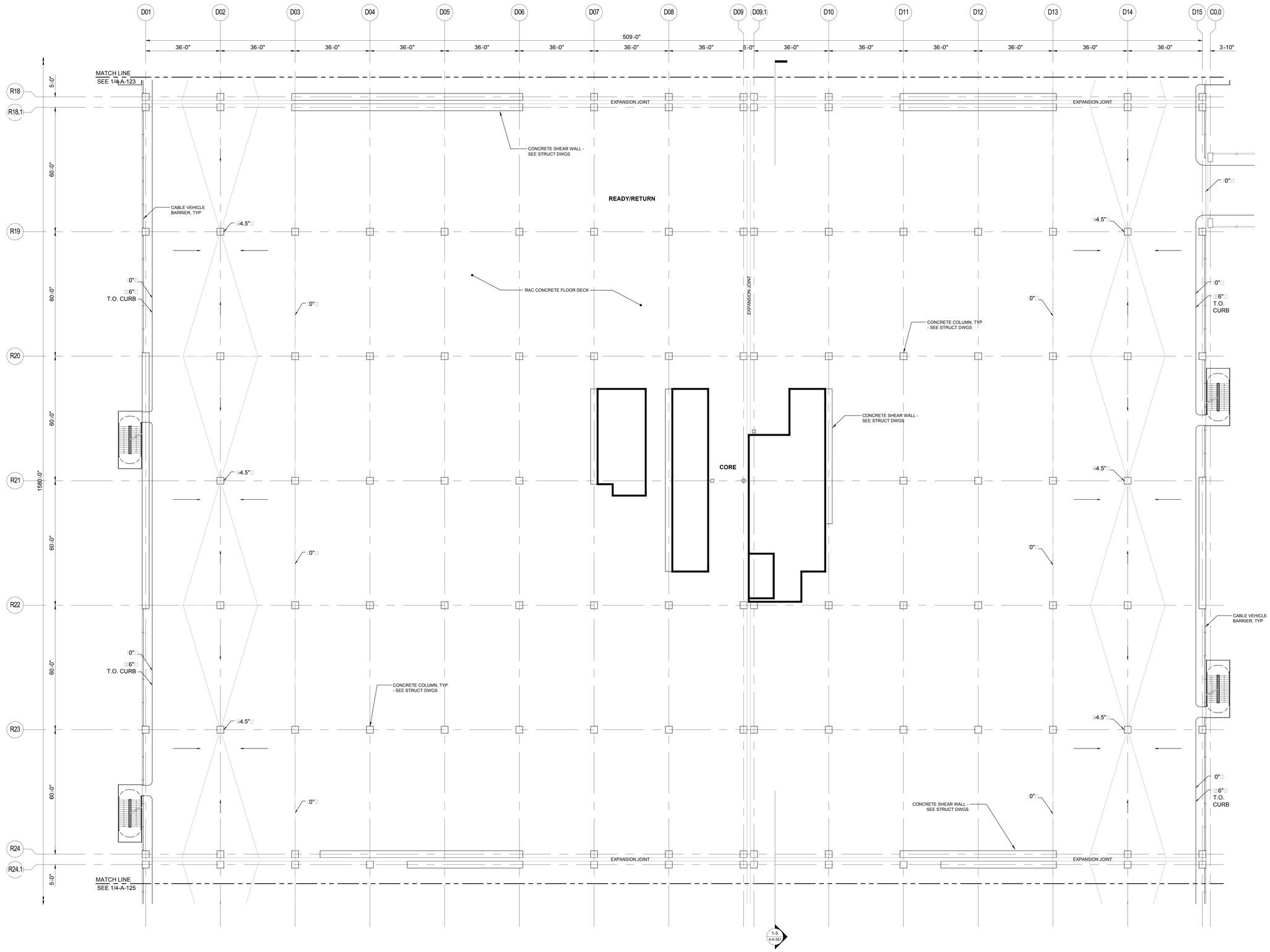


1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 4
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA
PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

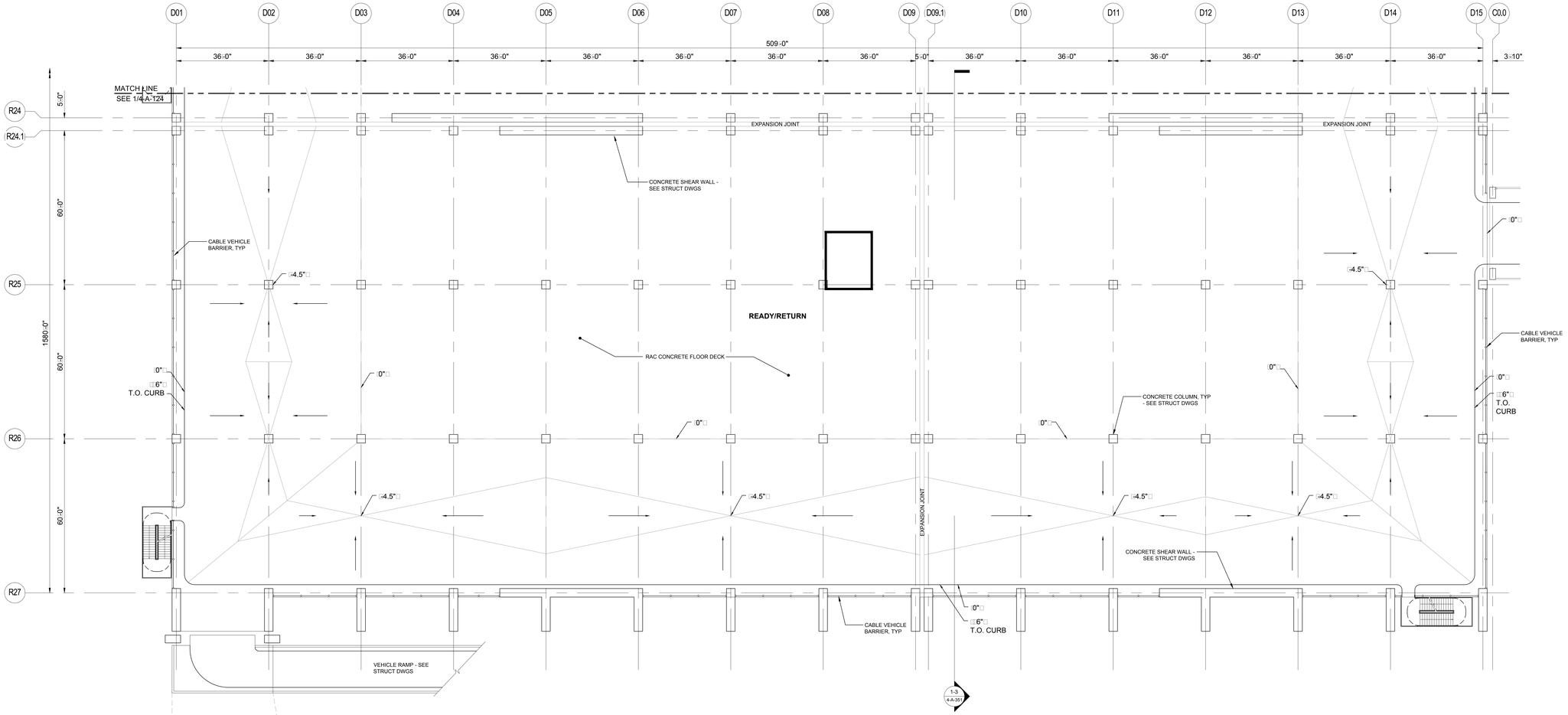
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

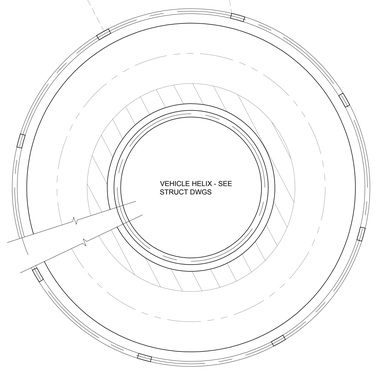
SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-A-124
SHEET OF

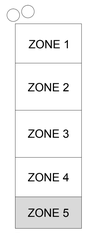
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

Z:\tran - tsm lga_local\tran - corp.pw\1 apledge\d0281977\DA4881-4-A-124_L2D.dwg, Plotted Jun 30, 2016 - 4:31pm





1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 5
1/16" = 1'-0"



BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo Angele International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 2
FLOOR PLAN

SHEET NO.
4-A-125
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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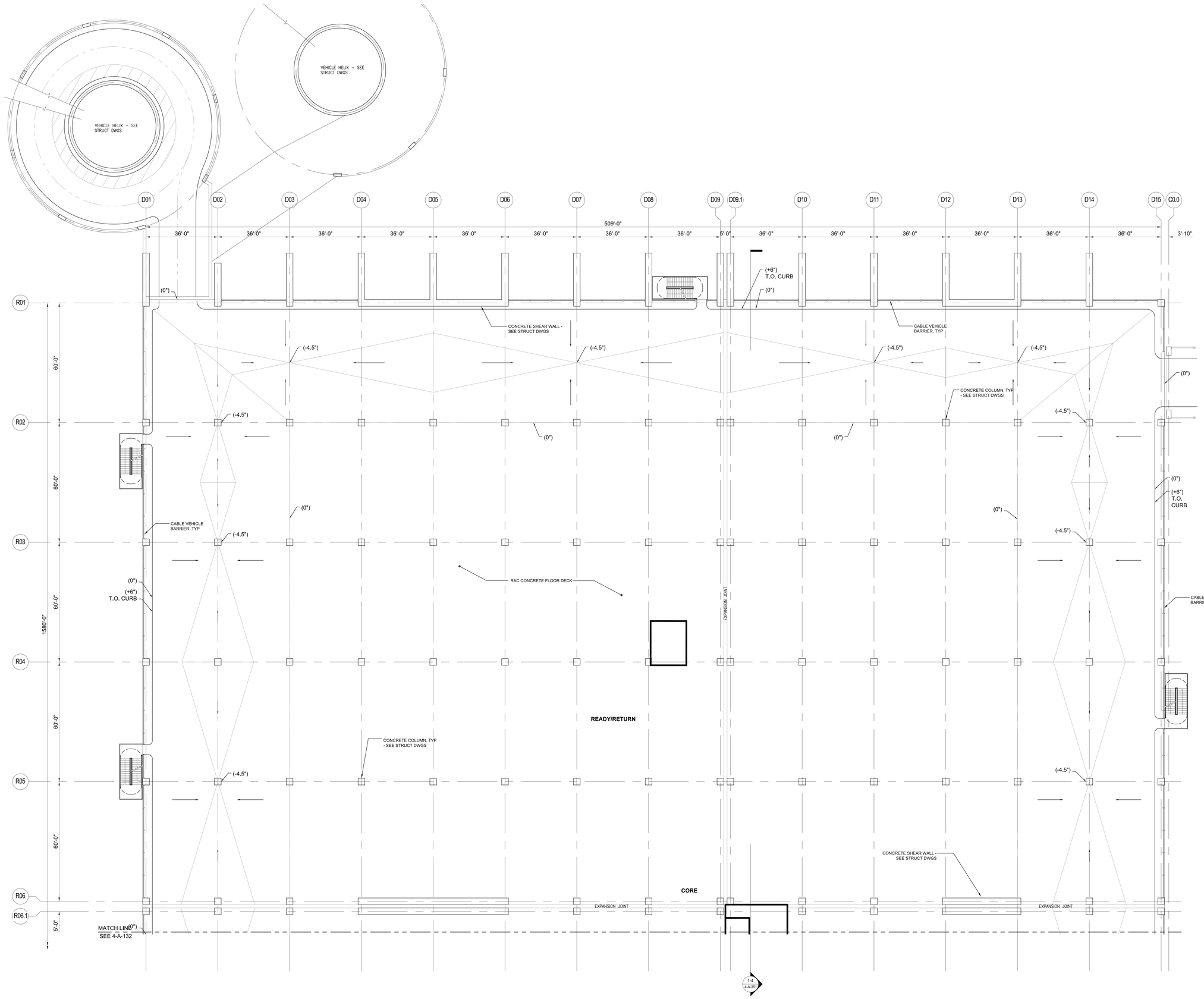
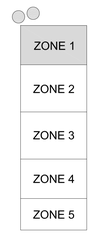


1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 1
1/16" = 1'-0"



BUILDING D KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

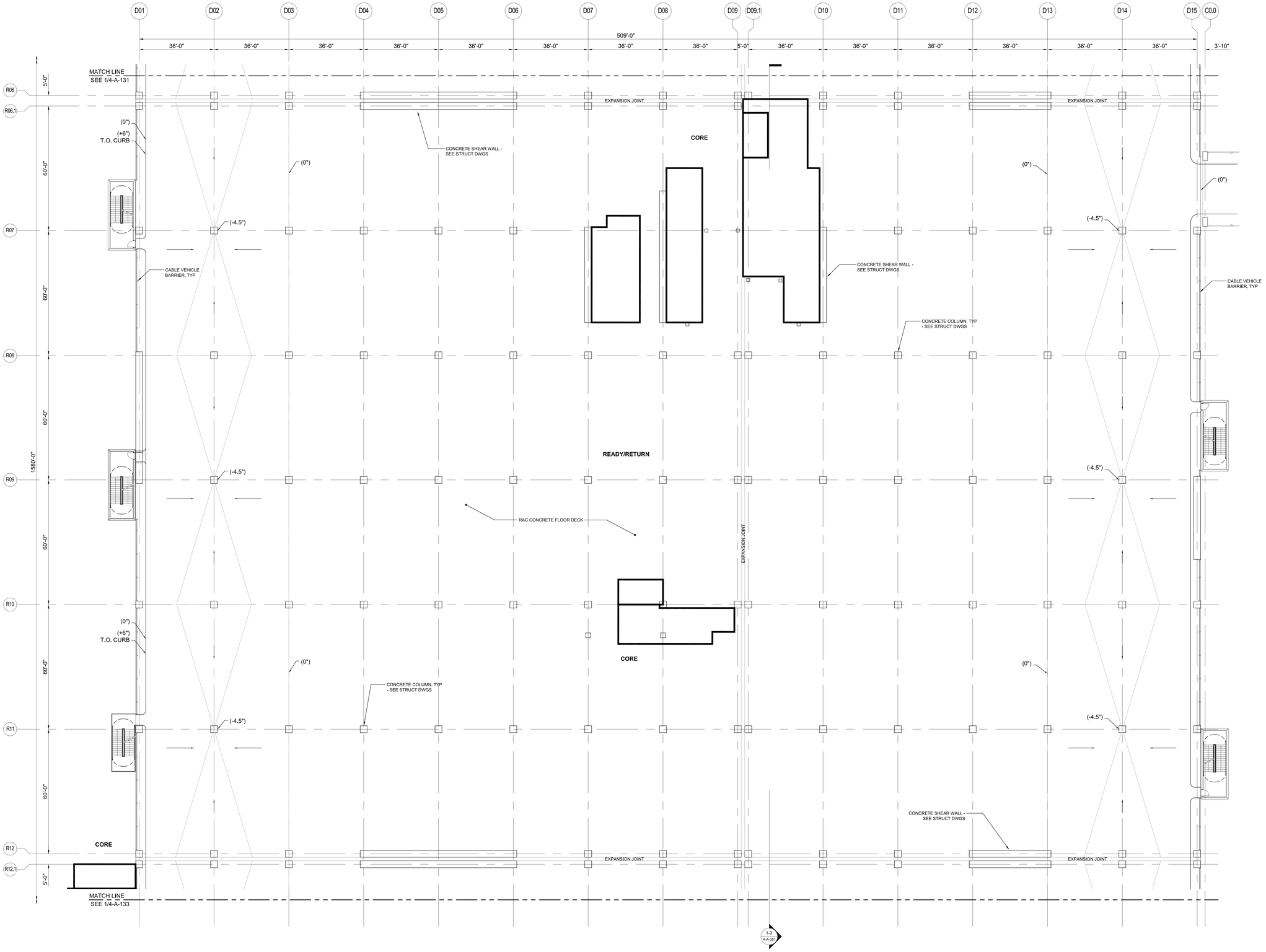
SHEET TITLE:

READY/ RETURN
LEVEL 3
FLOOR PLAN

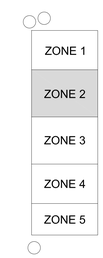
SHEET NO.

4-A-131

SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 2
1/16" = 1'-0"



BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:

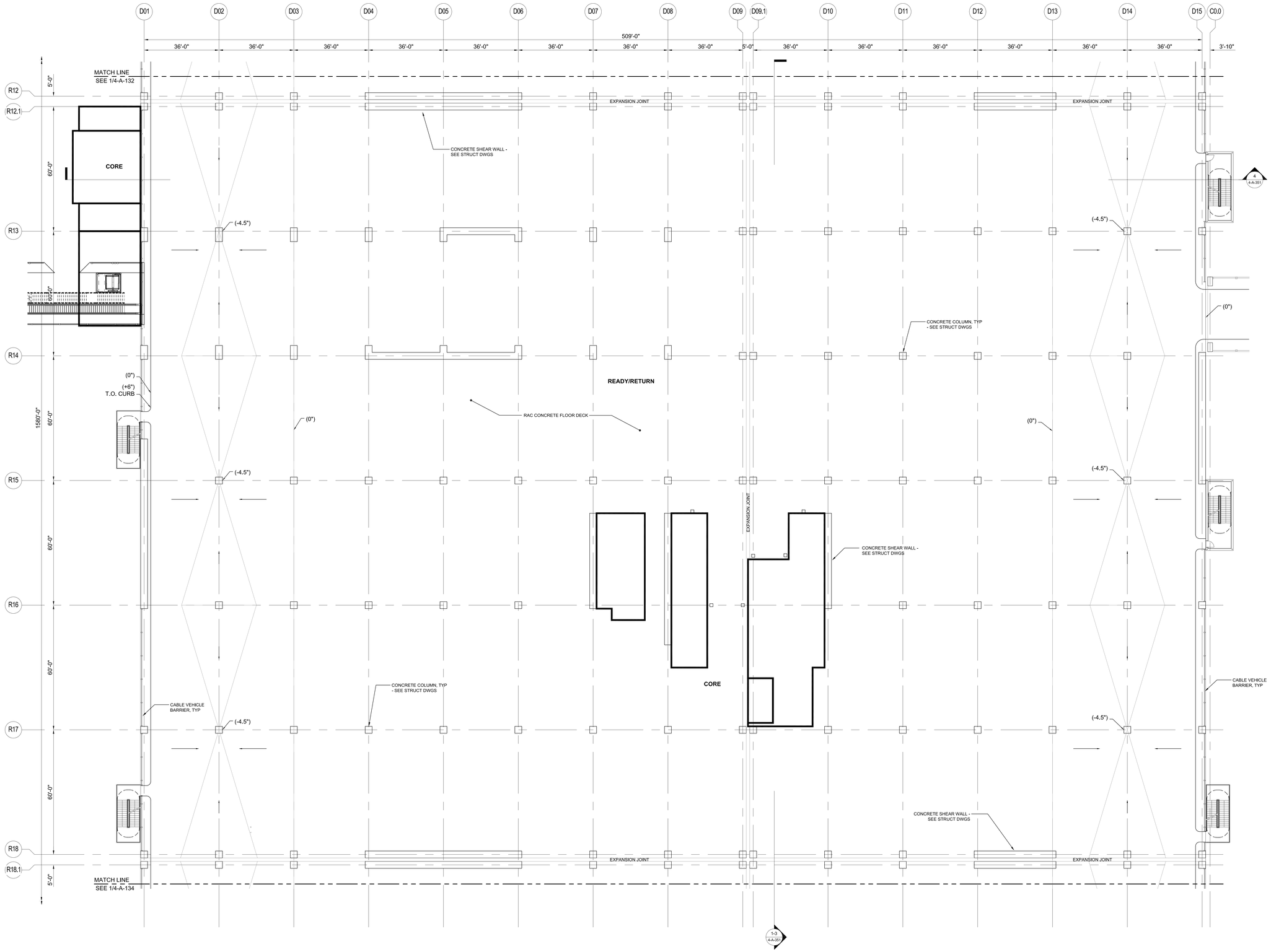
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.

4-A-132

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 3
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

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CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:

READY/ RETURN
LEVEL 3
FLOOR PLAN

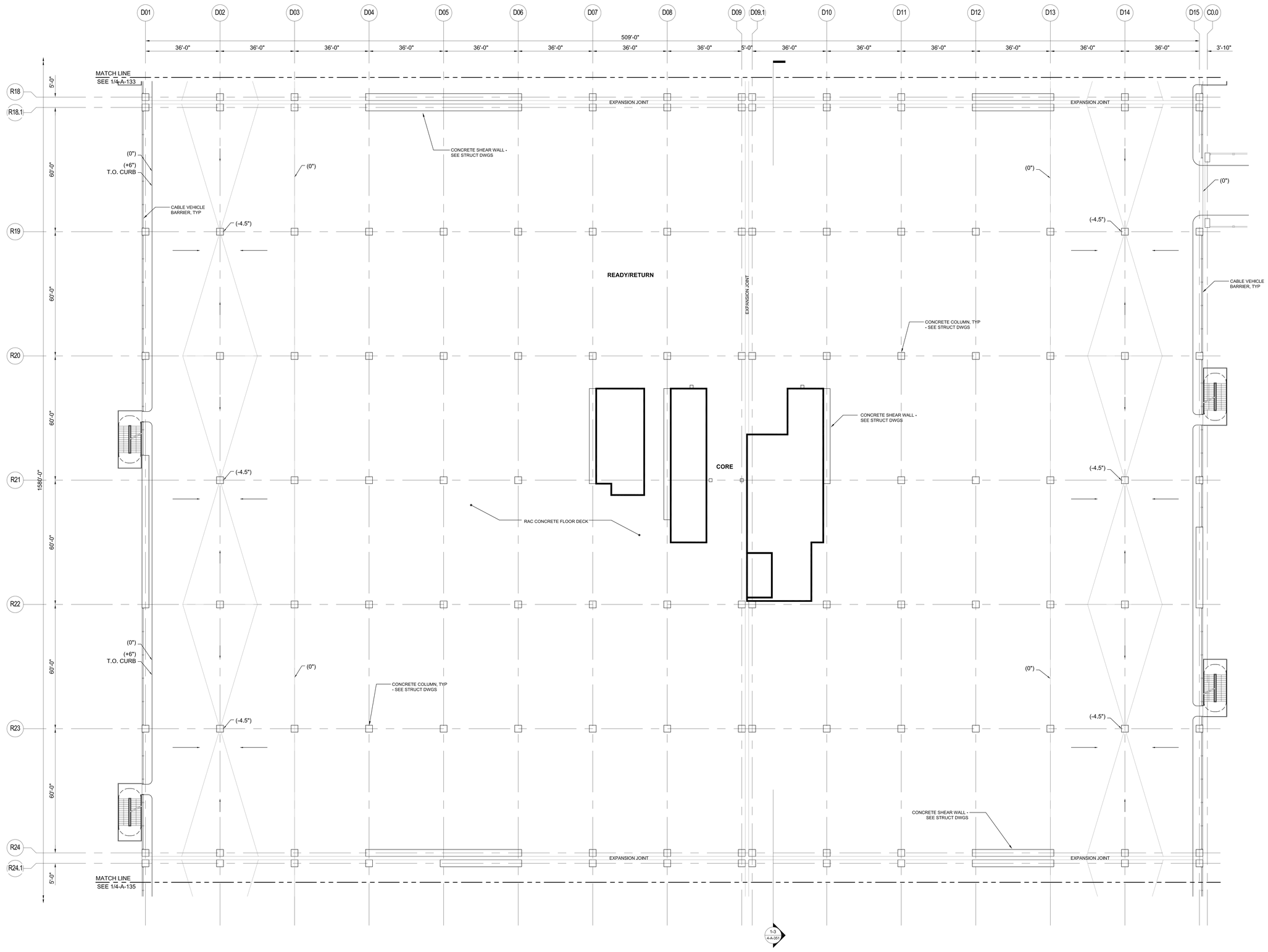
SHEET NO.

4-A-133

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\transyst\temp\pw_jqui\transyscorp.pw\1\ajw\dgn\DA0281\ITP\DA4881-4-A-133_L30.dwg, Plotted: Jun 30, 2016, 3:17pm



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 4
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 3
FLOOR PLAN

SHEET NO.
4-A-134
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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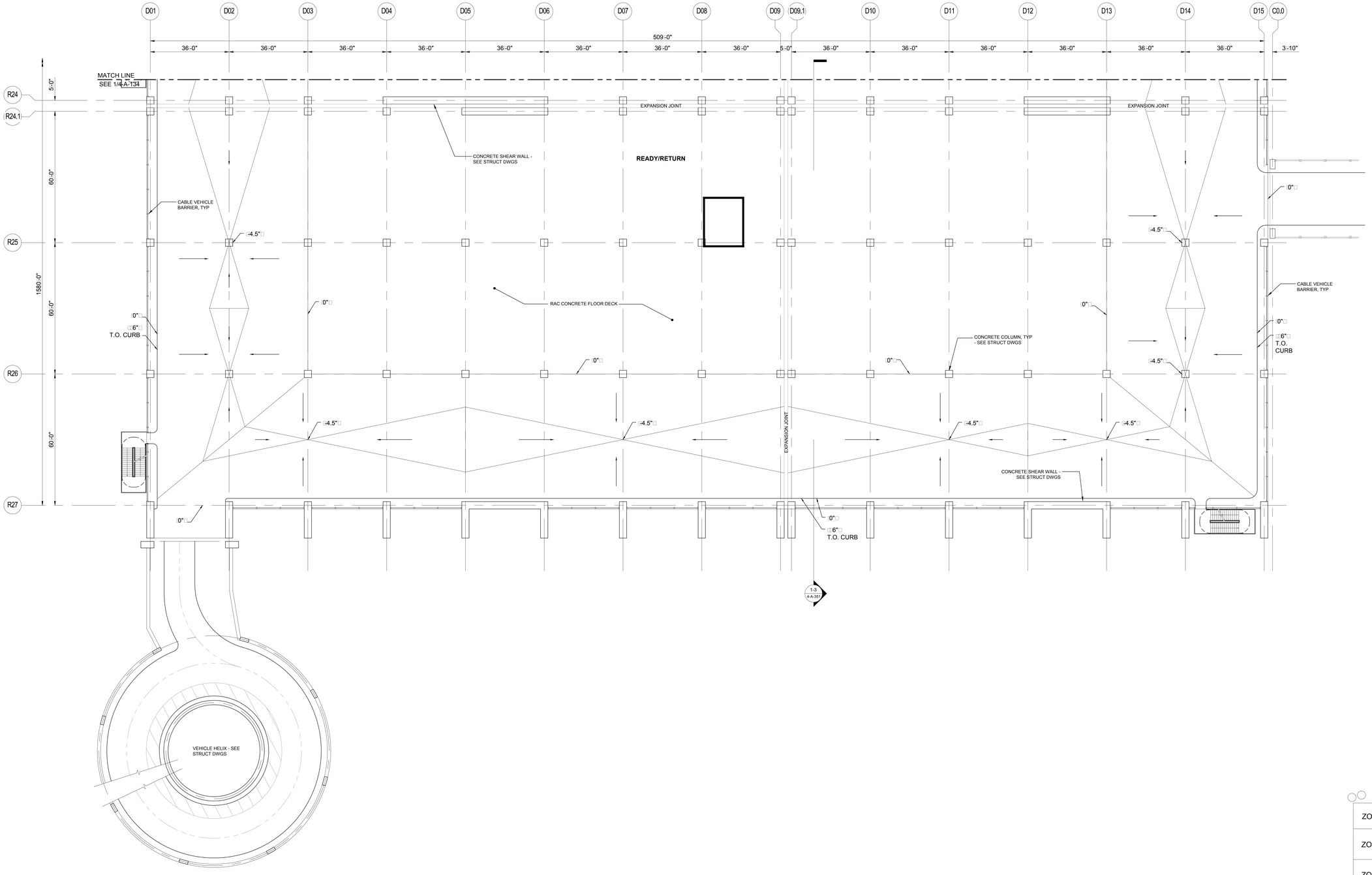


1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 5
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo. Angele. International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:			
MARK	DATE	DESCRIPTION	

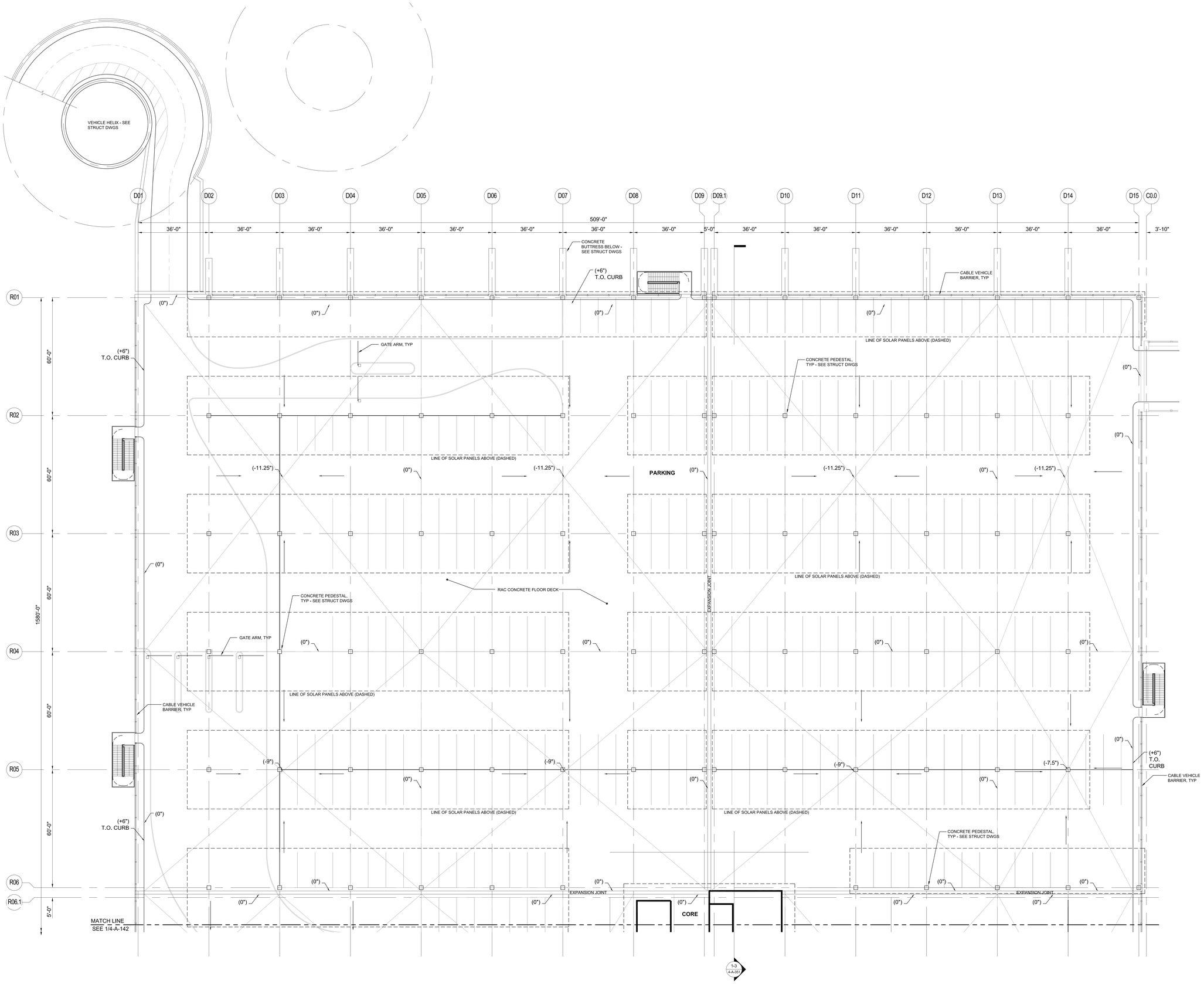
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 3
FLOOR PLAN

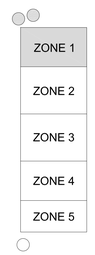
SHEET NO.
4-A-135
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\ian - ian\ ian_local\ian - (corp.pw\1 apwdgn\02081977\DA4881-4-A-135_LCD.dwg, Plotted Jun 30, 2016 - 3:17pm



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 1
1/16" = 1'-0"



BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN LEVEL 4 FLOOR PLAN

SHEET NO.
4-A-141
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\transystems\pw_work\transyscorp-pw1\quickedge\d0201977\DA4881-4-A-141_L400.dwg, Plotted: Jun 30, 2016 - 3:17pm

1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 2
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

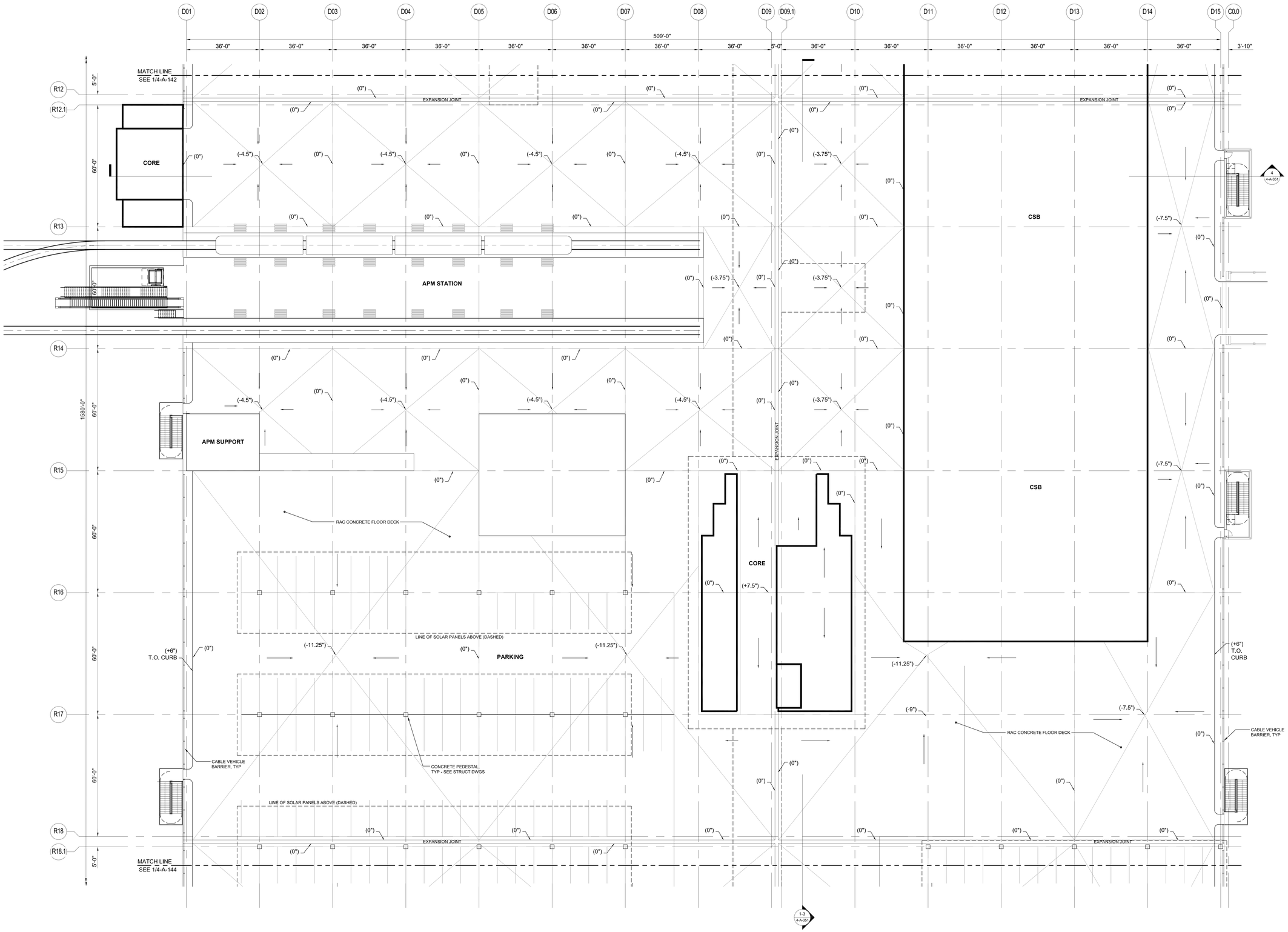
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-A-142
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 3
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-A-143
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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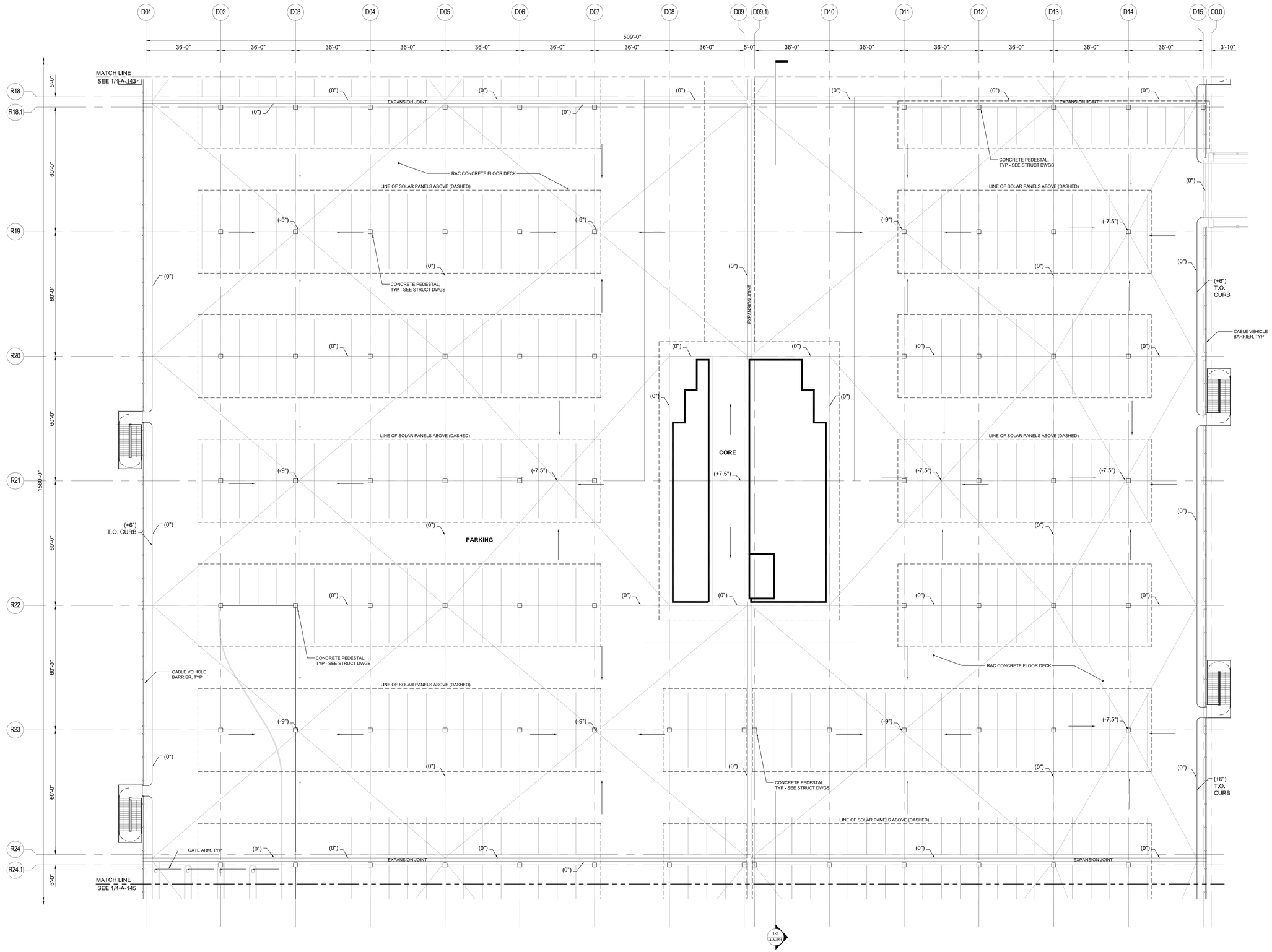

1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 4
1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE LAX PMD

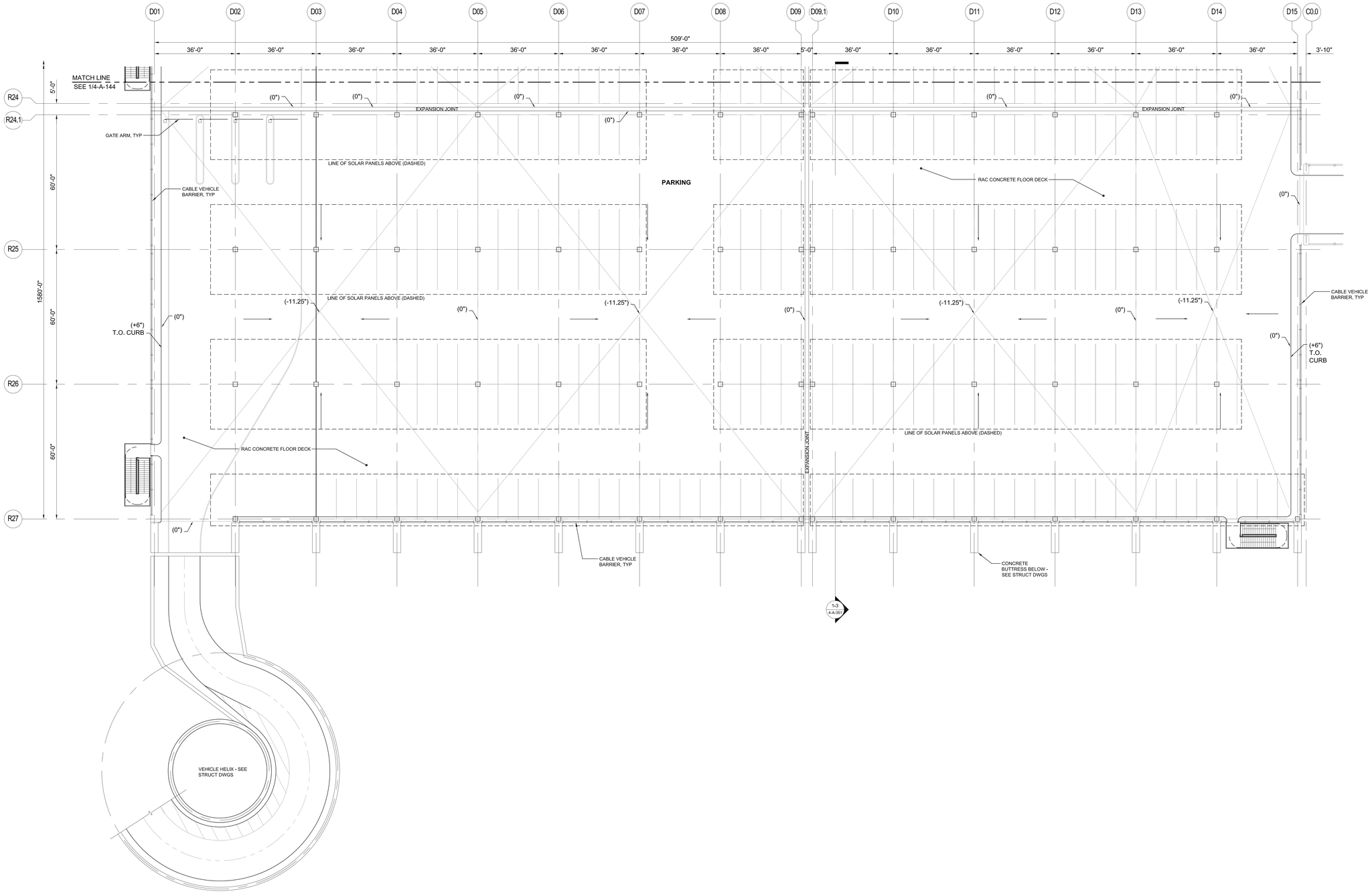
REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:
READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.
4-A-144
SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 5
1/16" = 1'-0"

BUILDING D KEYPLAN

TransSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: (562) 594-6974
FAX: (562) 594-6975

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CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JQJ
DRAWN BY: JN
CHECKED BY: NL

SHEET TITLE:

READY/ RETURN
LEVEL 4
FLOOR PLAN

SHEET NO.

4-A-145

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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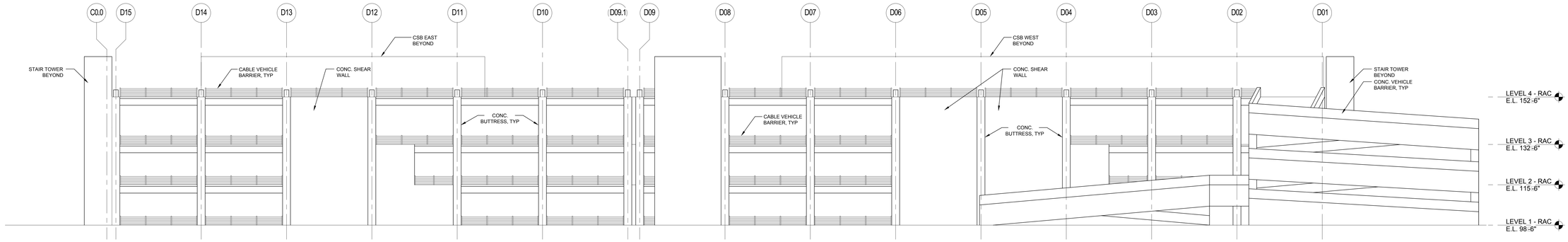
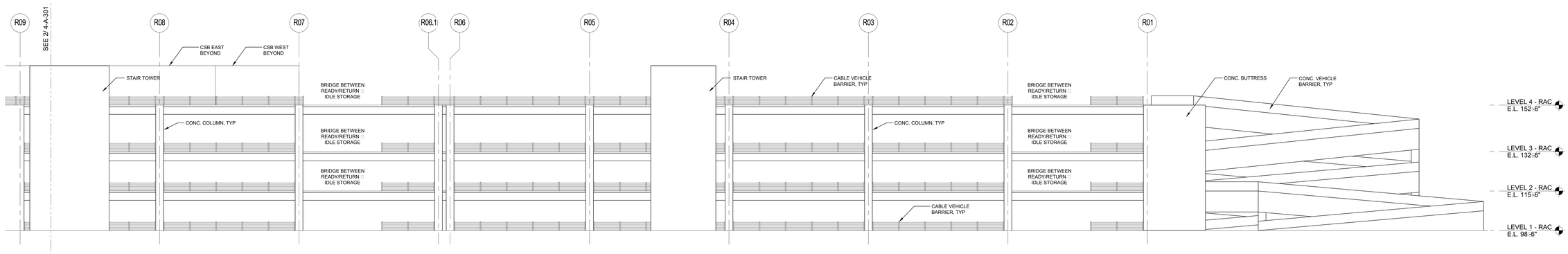
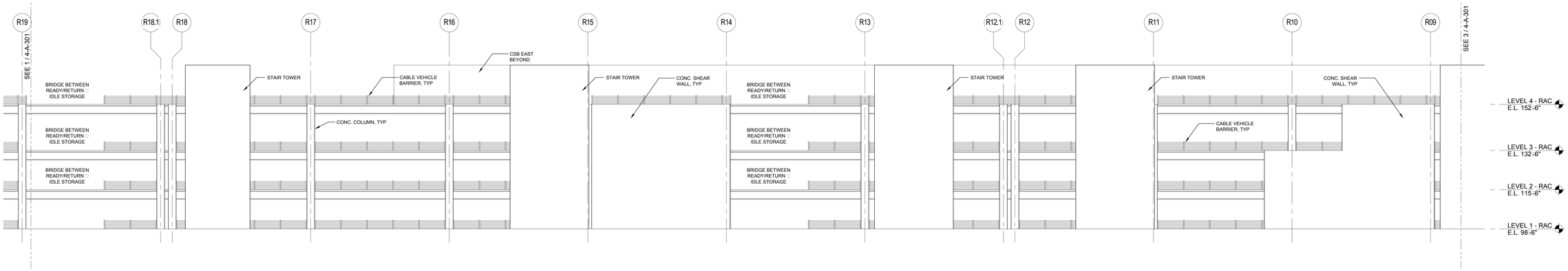


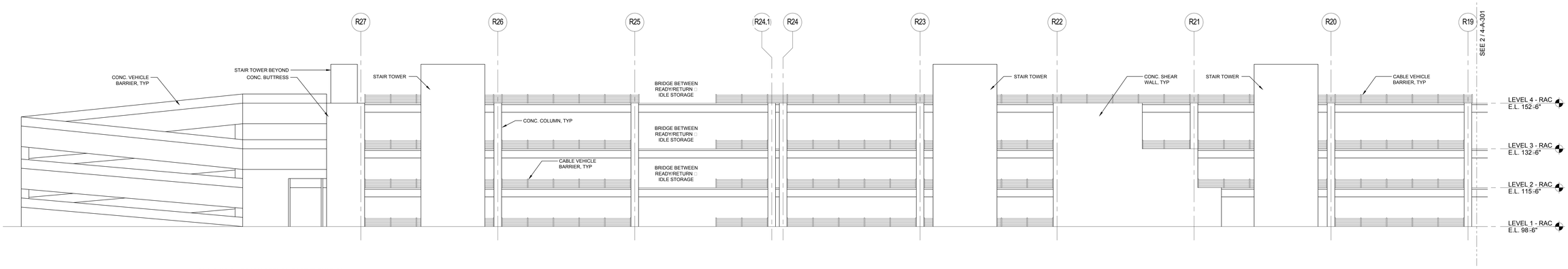
4 BUILDING D - READY/RETURN NORTH ELEVATION
1/16" = 1'-0"



3 BUILDING D - READY/RETURN EAST ELEVATION
1/16" = 1'-0"



2 BUILDING D - READY/RETURN EAST ELEVATION
1/16" = 1'-0"



1 BUILDING D - READY/RETURN EAST ELEVATION
1/16" = 1'-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO:	DA4881
SCALE:	1/16" = 1'-0"
DATE:	07/01/2016
DESIGNED BY:	J. J
DRAWN BY:	JN
CHECKED BY:	NL

SHEET TITLE:

BUILDING D
ELEVATIONS
NORTH & EAST

SHEET NO.

4-A-301

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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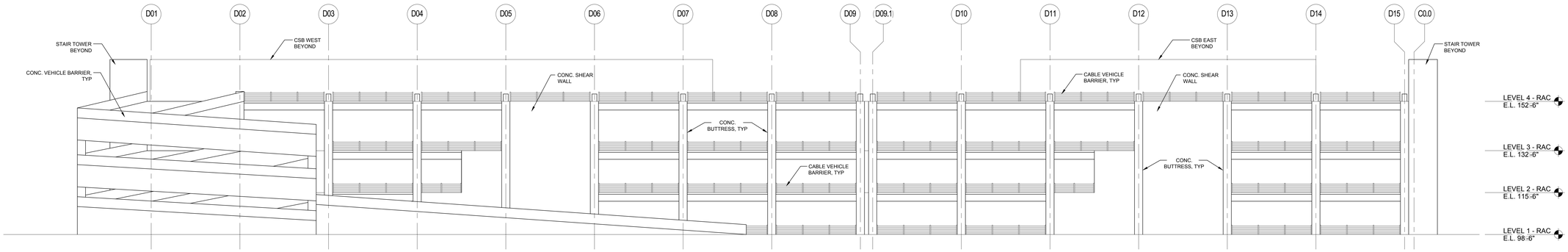
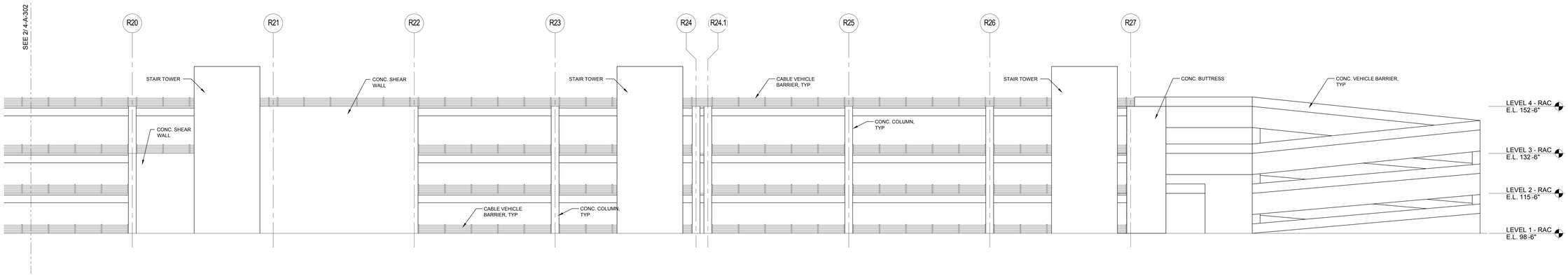
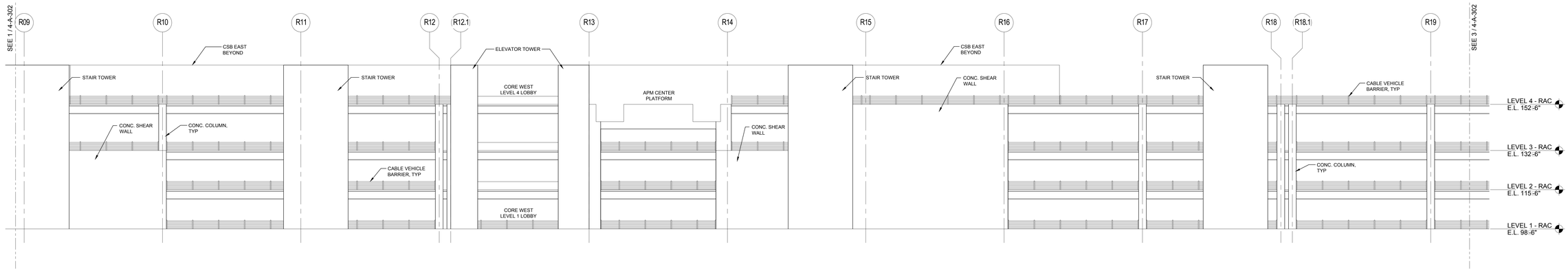


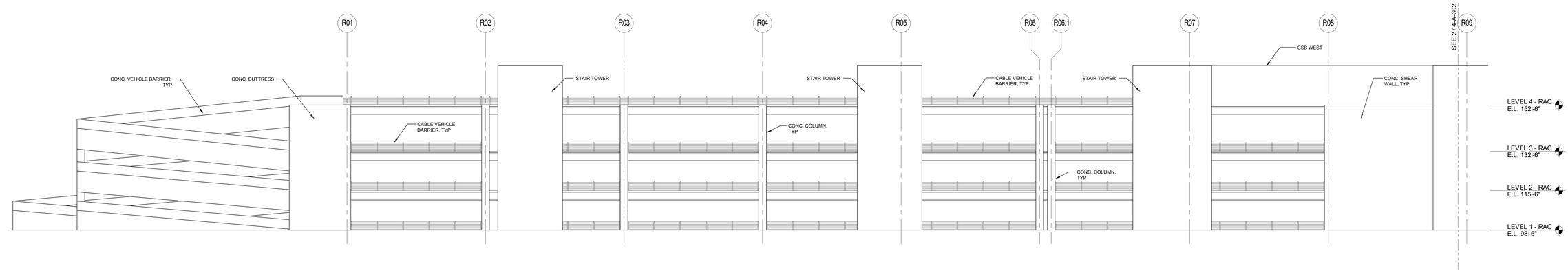
4 BUILDING D - READY/RETURN SOUTH ELEVATION
1/16" = 1'-0"



3 BUILDING D - READY/RETURN WEST ELEVATION
1/16" = 1'-0"



2 BUILDING D - READY/RETURN WEST ELEVATION
1/16" = 1'-0"



1 BUILDING D - READY/RETURN WEST ELEVATION
1/16" = 1'-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo. Angele. International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO:	DA4881
SCALE:	1/16" = 1'-0"
DATE:	07/01/2016
DESIGNED BY:	J. J
DRAWN BY:	JN
CHECKED BY:	NL

SHEET TITLE:

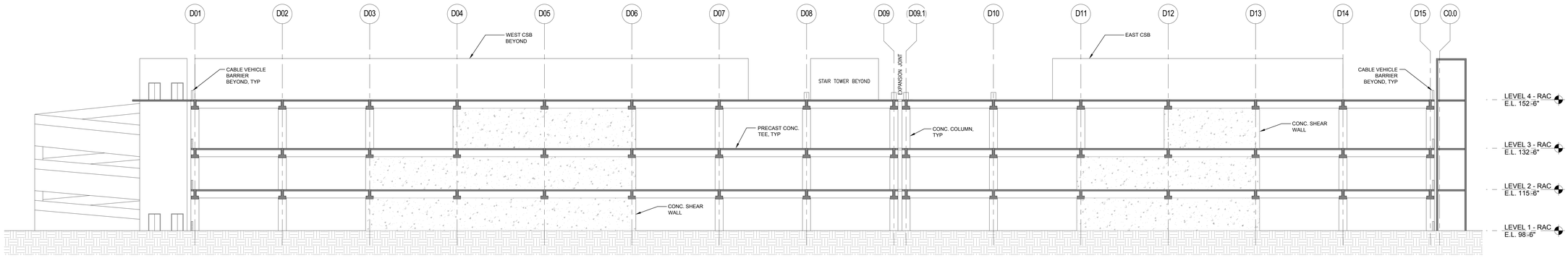
BUILDING D
ELEVATIONS
SOUTH & WEST

SHEET NO.
4-A-302

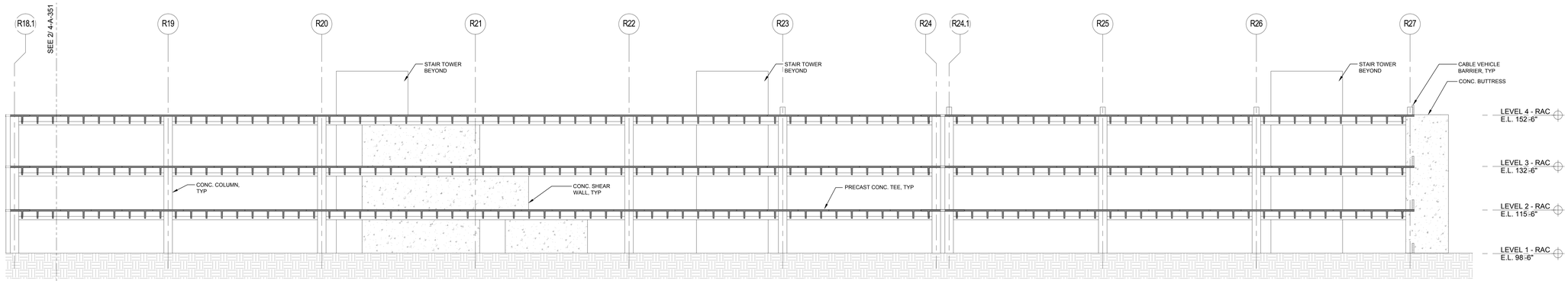
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

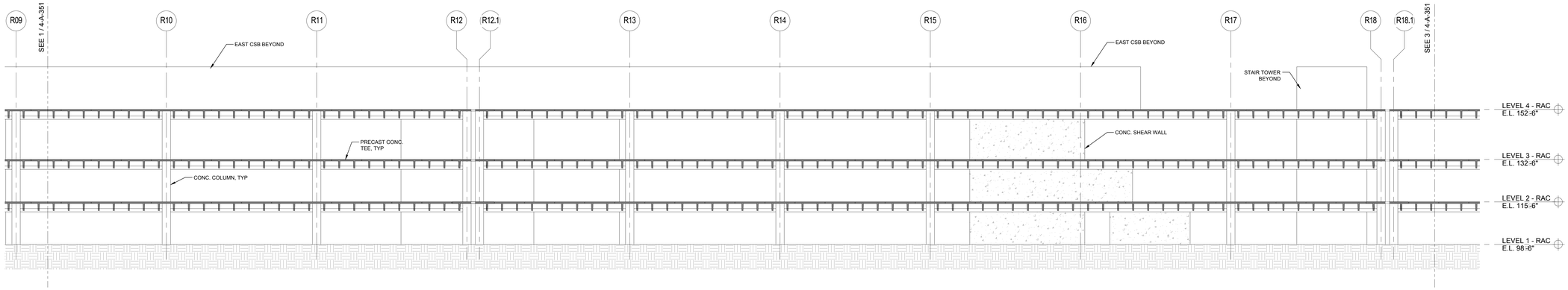
C:\tran - item \pw_\location \ : corp.pw\1 apdxgen\0235197\DA4881-4-A-302.dwg, Plotted Jun 30, 2016 - 3:18pm



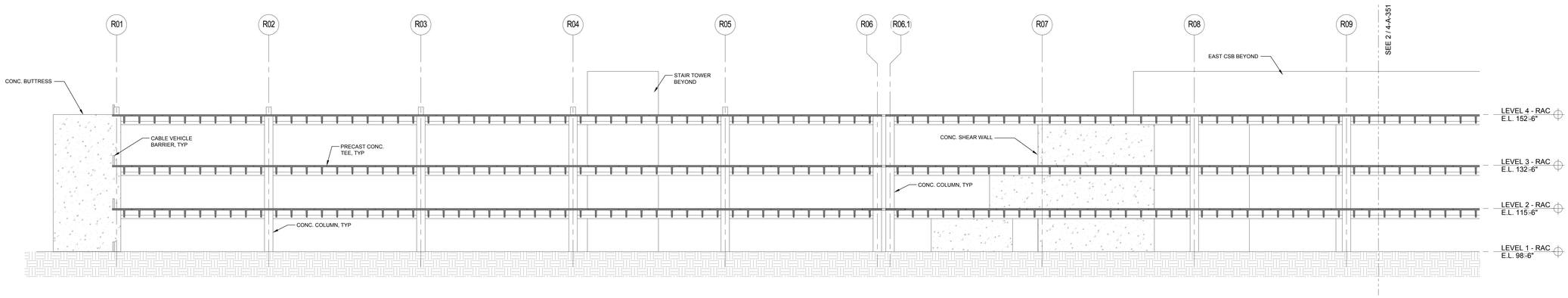
4 BUILDING D - READY/RETURN E-W SECTION
1/16" = 1'-0"



3 BUILDING D - READY/RETURN N-S SECTION
1/16" = 1'-0"



2 BUILDING D - READY/RETURN N-S SECTION
1/16" = 1'-0"



1 BUILDING D - READY/RETURN N-S SECTION
1/16" = 1'-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo. Angele. International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO:	DA4881
SCALE:	1/16" = 1'-0"
DATE:	07/01/2016
DESIGNED BY:	J. J
DRAWN BY:	JN
CHECKED BY:	NL

SHEET TITLE:

BUILDING D
BUILDING SECTION

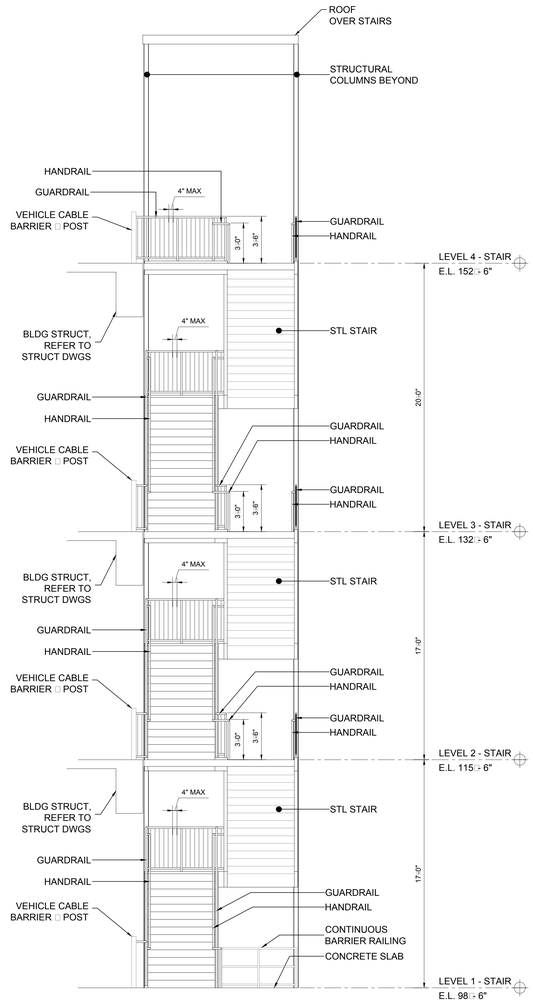
SHEET NO.

4-A-351

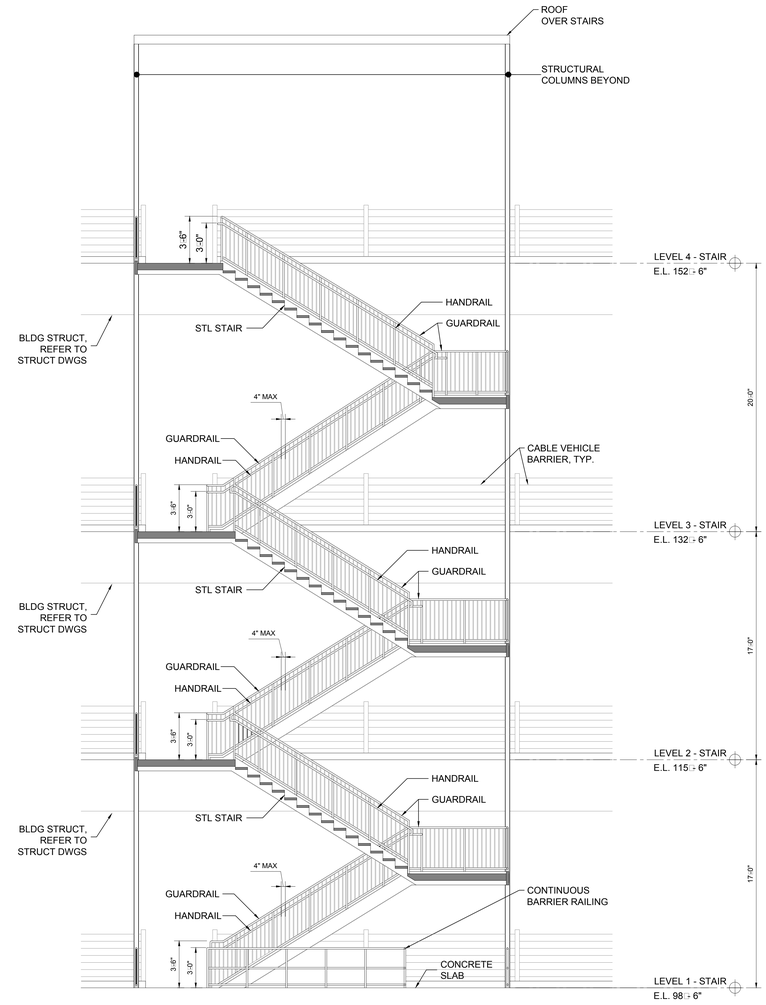
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

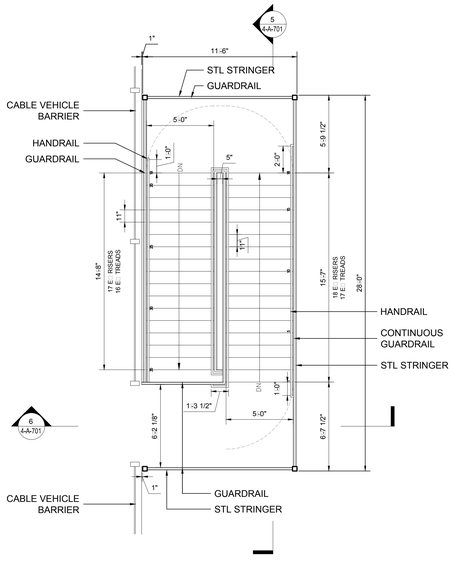
C:\tran - item ipw_location - corp pw1\ apdxgen\0235197\DA4881-4-A-351.dwg, Plotted Jun 30, 2016 - 3:18pm



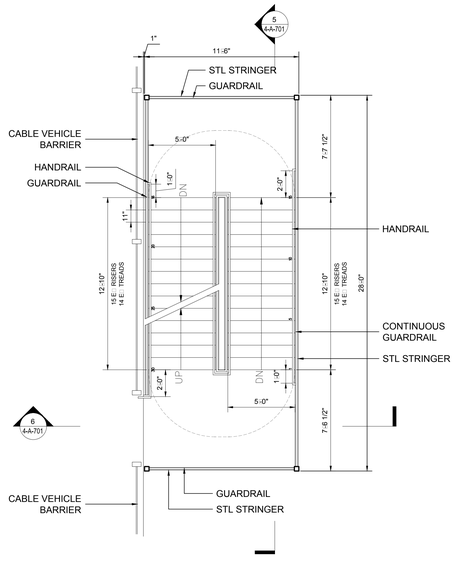
6 BUILDING D - TYP. OPEN STAIR - SECTION 2
1/4" = 1'-0"



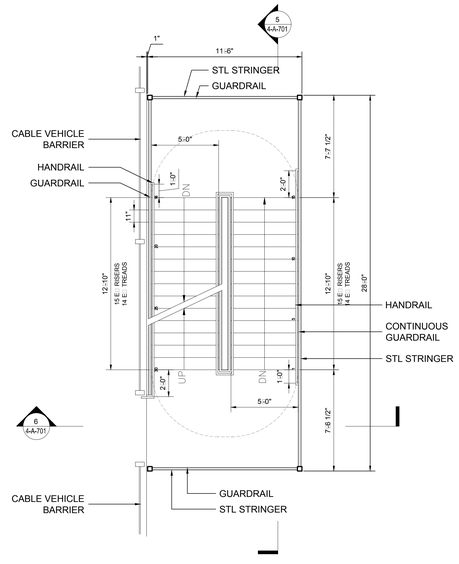
5 BUILDING D - TYP. OPEN STAIR - SECTION 1
1/4" = 1'-0"



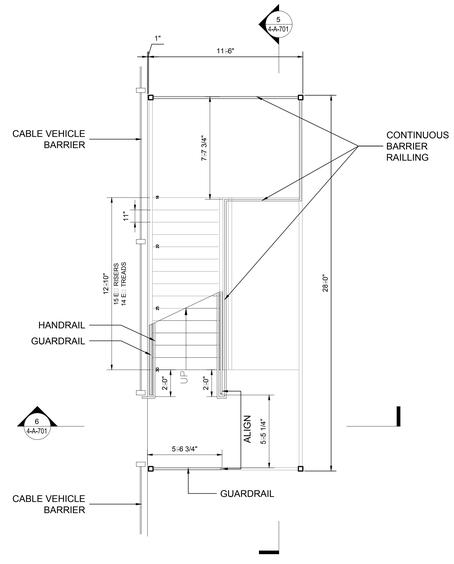
4 BUILDING D - TYP. OPEN STAIR - FOURTH LEVEL STAIR PLAN
1/4" = 1'-0"



3 BUILDING D - TYP. OPEN STAIR - THIRD LEVEL STAIR PLAN
1/4" = 1'-0"



2 BUILDING D - TYP. OPEN STAIR - SECOND LEVEL STAIR PLAN
1/4" = 1'-0"



1 BUILDING D - TYP. OPEN STAIR - FIRST LEVEL STAIR PLAN
1/4" = 1'-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo Angele International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/4" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: J. J
DRAWN BY: JN
CHECKED BY: NL

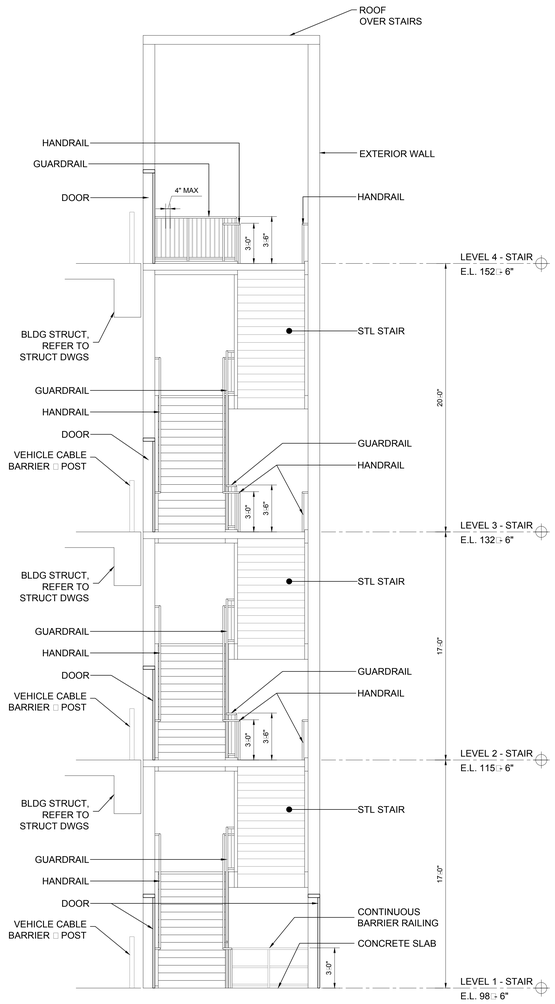
SHEET TITLE:

BUILDING D
TYP. OPEN STAIRS

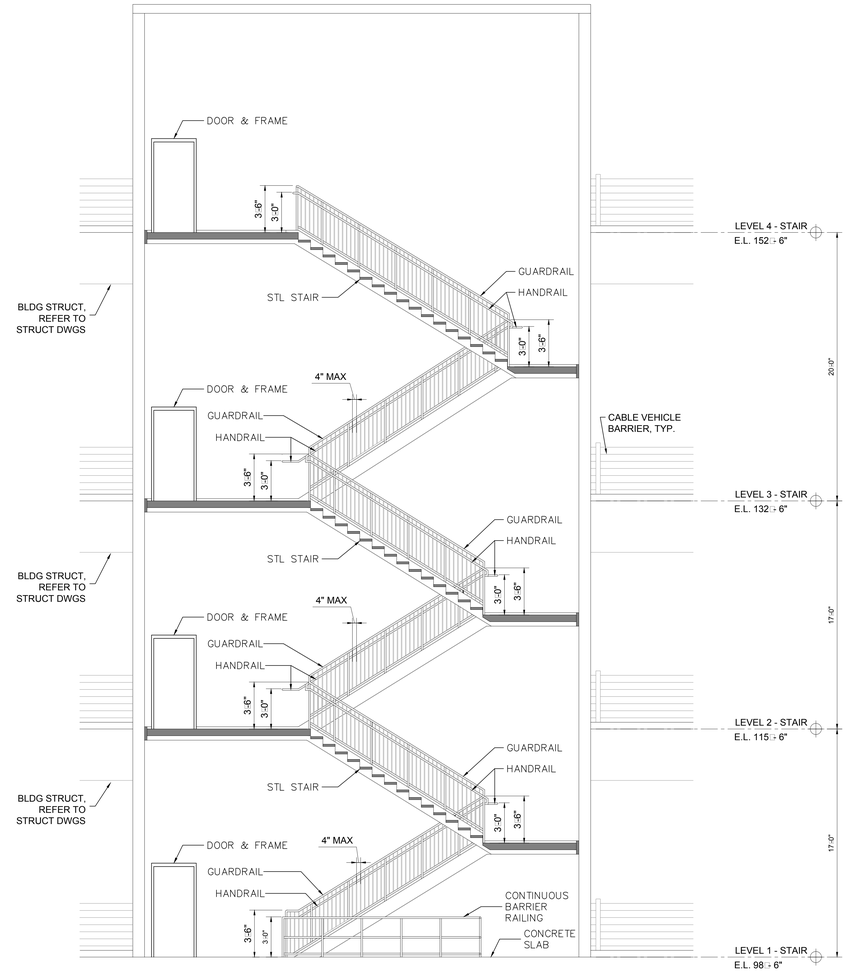
SHEET NO.
4-A-701
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

C:\Users\ ... \ts\ts_local\main : corp-pw11 aplesigner\d0281977\DA4881-4-A-701.dwg, Plotted: Jun 30, 2016 - 5:30pm



6 BUILDING D - TYP. ENCLOSED STAIR - SECTION 2
1/4" = 1'-0"



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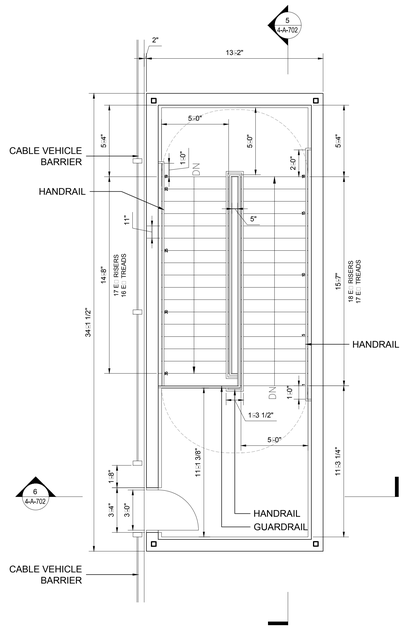
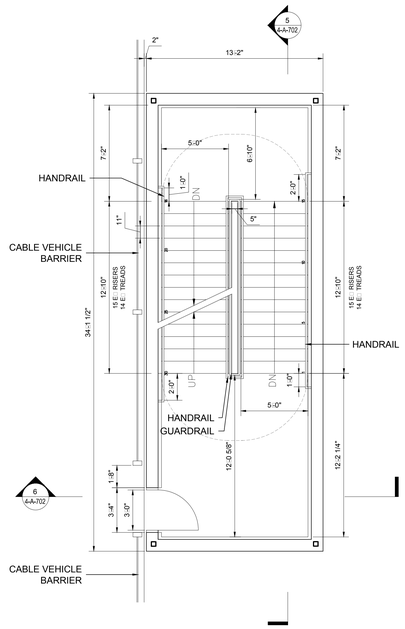
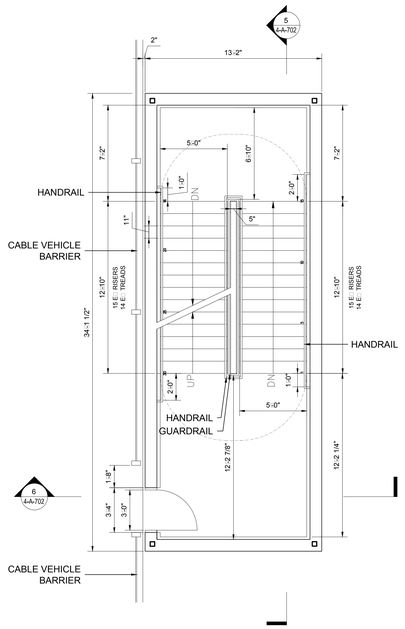
1/4" = 1'-0"



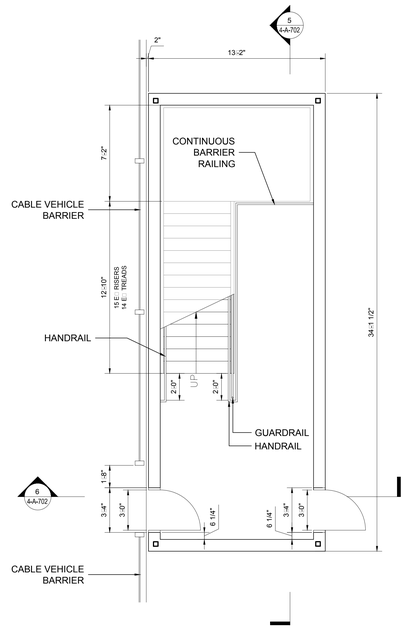
4 BUILDING D - TYP. ENCLOSED STAIR - FOURTH LEVEL STAIR PLAN
1/4" = 1'-0"



3 BUILDING D - TYP. ENCLOSED STAIR - THIRD LEVEL STAIR PLAN
1/4" = 1'-0"



2 BUILDING D - TYP. ENCLOSED STAIR - SECOND LEVEL STAIR PLAN
1/4" = 1'-0"



1 BUILDING D - TYP. ENCLOSED STAIR - FIRST LEVEL STAIR PLAN
1/4" = 1'-0"

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
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NOT FOR CONSTRUCTION

CONSULTANTS:

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Lo. Angele. International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ.NO:	DA4881
SCALE:	1/4" = 1'-0"
DATE:	07/01/2016
DESIGNED BY:	J. J
DRAWN BY:	JN
CHECKED BY:	NL

SHEET TITLE:
BUILDING D
TYP. ENCLOSED STAIRS

SHEET NO.
4-A-702
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
		NEW SQUARE OR RECTANGULAR DUCT		S.P.	STATIC PRESSURE	CHWS	CHWS	CHILLED WATER SUPPLY
	AC.LN.	NEW DUCT WITH ACOUSTIC LINER (IN ADDITION TO WHERE SPECIFIED)	Ø	DIA.	ROUND (DIAMETER)	CHWR	CHWR	CHILLED WATER RETURN
		EXISTING DUCT OR EQUIPMENT TO REMAIN			OVAL DUCT (MINOR AXIS x MAJOR AXIS)	HWS	HWS	LOW TEMPERATURE HOT WATER SUPPLY
		EXISTING DUCT OR EQUIPMENT TO BE REMOVED		TG	TOP GRILLE	HWR	HWR	LOW TEMPERATURE HOT WATER RETURN
		NEW ROUND DUCT		TR	TOP REGISTER		N.O.	NORMALLY OPEN
		NEW FLEXIBLE ROUND DUCT		BR	BOTTOM REGISTER		N.C.	NORMALLY CLOSED
UP (OR DN)		DUCT SLOPE DIRECTION		B.G.	BOTTOM GRILLE		TEMP.	TEMPERATURE
		DUCT UP OR DOWN		C.G.	CEILING GRILLE		TYP.	TYPICAL
		DUCT TRANSITION		CFM	CUBIC FEET OF AIR PER MINUTE		POR	POINT OF REMOVAL
		RADIUS ELBOW (✳FIG. 2-2)		E. OR EXH.	EXHAUST		POC	POINT OF CONNECTION
		RECTANGULAR/SQUARE DUCT THROAT ELBOW WITH VANES (✳ FIG. 2-2)		(E) OR EXIST	EXISTING		A.D.	ACCESS DOOR
OR		SQUARE 45° ENTRY BRANCH CONNECTION (✳FIG. 2-8)		O.S.A.	OUTSIDE AIR		IBJS	IN BETWEEN JOIST SPACE
		ROUND DUCT WYE FITTING (✳FIG. 3-5)		R. OR RET.	RETURN		UTR	UP THROUGH ROOF
OR		RECTANGULAR DUCT PARALLEL FLOW BRANCH (✳ FIG. 2-7)		S. OR SUPP.	SUPPLY		DTR	DOWN THROUGH ROOF
TH OR TH		THROAT SIZE ON RECTANGULAR DUCT SPLIT		TH.	THROAT		UTF	UP THROUGH FLOOR
OR		DUCT TAKE-OFF FROM BOTTOM		MCA	MINIMUM CIRCUIT AMPS		DTR	DOWN THROUGH ROOF
OR		DUCT TAKE-OFF FROM TOP		MFA	MAXIMUM FUSE AMPS	XX X		EQUIPMENT NUMBER
	M.V.D.	NEW MANUAL VOLUME DAMPER			BALL VALVE	4 T	T'STAT.	THERMOSTAT WITH ZONE NUMBER
	(E)M.V.D.	EXISTING MANUAL VOLUME DAMPER			GLOBE VALVE		GA.	GAUGE
	F.D.	NEW FIRE DAMPER			BALANCING COCK	S		REMOTE SENSOR
	(E)F.D.	EXISTING FIRE DAMPER			CHECK VALVE	RL	RL	REFRIGERANT LIQUID LINE
		NEW MOTORIZED DAMPER	PRV-X		PRESSURE REDUCING VALVE	RS	RS	REFRIGERANT SUCTION LINE
	FD-SD	NEW FIRE DAMPER & SMOKE DAMPER			FLOW CONTROL VALVE (NON-MOTORIZED)	RD	RD	REFRIGERANT DISCHARGE LINE
	(E) FD-SD	EXISTING FIRE DAMPER & SMOKE DAMPER			WYE STRAINER WITH DRAIN VALVE			THERMOSTATIC EXPANSION VALVE
	CR	CEILING REGISTER (RETURN OR EXHAUST)			STRAINER	DRYER		DRYER
	CD	CEILING DIFFUSER (SUPPLY)			PUMP			FILTER DRYER
	CR	CEILING REGISTER (OUTSIDE AIR)			THERMOMETER			SIGHT GLASS
		SUPPLY AIR DUCT SECTION		PRV	PRESSURE RELIEF VALVE WITH DISCHARGE TO FLOOR SINK OR OUTSIDE			OIL SEPARATOR
		RETURN OR EXHAUST AIR DUCT SECTION	EJ-X		PIPING EXPANSION JOINT			FILTER
		OUTSIDE AIR DUCT SECTION			PRESSURE GAUGE WITH GAUGE COCK			RECEIVER (VERTICAL)
		SUPPLY AIR DUCT UP THRU FLOOR OR ROOF			ALIGNMENT GUIDE			SOLENOID VALVE
		RETURN OR EXHAUST AIR DUCT UP THRU FLOOR OR ROOF			ANCHOR			REFRIGERATION VALVE
		OUTSIDE AIR DUCT UP THRU FLOOR OR ROOF	MV	MV	MANUAL AIR VENT			VIBRATION ABSORBER
2	LVR.	DOOR LOUVER AND SQUARE FOOT AREA			PLUG COCK	(NAME)		NEW PIPING
		UNDERCUT DOOR 3/4"			PIPING FLEXIBLE CONNECTION	(NAME)		EXISTING PIPING TO REMAIN
DD		SMOKE DUCT DETECTOR (BY FIRE ALARM CONTRACTOR)	TH		THERMOMETER WELL	(NAME)		EXISTING PIPING TO BE REMOVED
	GALV.	GALVANIZED		A.A.V.	AUTOMATIC AIR VENT WITH DISCHARGE TO FLOOR SINK OR OUTSIDE	✳		REFERS TO "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS

GENERAL NOTES

1. THE INSTALLATION SHALL COMPLY WITH ANY AND ALL REQUIREMENTS OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION INCLUDING THE FOLLOWING:
   a) 2013 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE PART 1, TITLE 24 C.C.R.
   b) 2013 CITY OF LOS ANGELES BUILDING CODE BASED ON 2010 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; AND 2009 INTERNATIONAL BUILDING CODE (IBC)
   c) 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. WITH 2011 L.A CITY AMENDMENTS. (BASED ON 2008 NATIONAL ELECTRICAL CODE)
   d) 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. WITH 2011 L.A CITY AMENDMENTS. (BASED ON 2009 UNIFORM MECHANICAL CODE)
   e) 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. WITH 2011 L.A CITY AMENDMENTS. (BASED ON 2009 UNIFORM MECHANICAL CODE)
   f) 2013 BUILDING ENERGY EFFICIENCY STANDARDS (CALIFORNIA ENERGY CODE) PART 6, TITLE 24, C.C.R.
   g) 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2010 (2006 UNIFORM FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
   h) 2013 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. (2006 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
   i) 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
   j) 2013 TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
   k) 2013 LA GREEN BUILDING CODE (LABGC).
2. ALL INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH THE WORK, THIS CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, REQUIRED CLEARANCES, AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF ALL EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK AND TO THE WORK OF OTHER TRADES.
3. CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT OR SPECIALTIES REQUIRING READING, ADJUSTMENT, INSPECTION, REPAIRS, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BLDG.
4. DUCT CONSTRUCTION, INSTALLATION & INSULATION SHALL COMPLY WITH 2011 CITY OF LA MECHANICAL CODE, CHAPTER-6 AND SMACNA 1995 EDITION.
5. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "SMACNA" GUIDELINES AS FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING SYSTEMS. WHERE BRACING DETAILS ARE NOT SHOWN ON DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, AND LAWA ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY "SMACNA" AND APPROVED BY LAWA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIME.
6. ALL FRESH AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10' FROM ANY SANITARY VENT, EXHAUST FAN DISCHARGE AND FLUE OF OTHER FURNACES. WHEN NECESSARY EXTEND VENTS OR PROVIDE ADDITIONAL FRESH AIR INTAKE DUCTWORK AS DIRECTED BY THE ENGINEER.
7. FIRE DAMPERS AND SMOKE DAMPERS SHALL BE PROVIDED AS REQUIRED BY SECTION 709 AND 710 OF THE CALIFORNIA BUILDING CODE. FIRE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.
8. FIRE DAMPERS OR DOORS SHALL BE PROVIDED WHERE AIR DUCTS PENETRATE FIRE RATED WALLS OR CEILINGS AS REQUIRED BY CBC 716.5.2. DUCTS AND AIR TRANSFER OPENINGS IN FIRE BARRIERS SHALL BE PROTECTED WITH APPROVED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING. PROVIDE COMBINATION FIRE/SMOKE DAMPERS AT THE SHAFT PENETRATIONS AS REQUIRED BY CBC 716.5.3.1.
9. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
10. THE SIZES, WEIGHTS AND CAPACITIES OF ALL EQUIPMENT SCHEDULES ON THE DRAWING HAVE BEEN CAREFULLY COMPUTED. SHOULD EQUAL ITEMS BY DIFFERENT MANUFACTURERS BE SUBMITTED FOR APPROVAL, ALL SUCH SUBMITTALS SHALL INCLUDE 1/4 INCH SCALE SHOP DRAWINGS SHOWING METHOD OF INSTALLATION. PROVIDE LOAD RATINGS AND SEISMIC CALCULATIONS AS APPROVED BY A REGISTERED STRUCTURAL ENGINEER WITH EACH SUBMITTAL.
11. REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL, WHICH MAY BE LIMITED TO IDENTIFYING BY TITLE AND/OR PUBLICATION NUMBER THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. ONE COPY OF THIS INFORMATION SHALL BE FURNISHED BY THE CONTRACTOR TO THE OWNER.
12. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
13. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, SAW CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS SHALL BE SEALED TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING PENETRATED.
15. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE THE EXISTING OR NEW STRUCTURAL ELEMENTS IS NOT TO BE STARTED UNTIL THE THE DETAILS HAVE BEEN REVIEW AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND THE FIELD ENGINEER IF THE DETAILS DO NOT SHOW OR CONFORM TO THE APPROVED DRAWINGS.
16. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF MECHANICAL EQUIPMENT MATERIAL ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATION TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.
17. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENING SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A U.L. TESTED AND APPROVED ASSEMBLY APPROVED BY THE STATE FIRE MARSHALL.
18. BEFORE BIDDING THE PROJECT THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE CLEARANCES AVAILABLE TO BRING THE SPECIFIED EQUIPMENT AND MATERIAL TO THE SITE.
19. FINAL LOCATIONS OF THERMOSTAT TO BE VERIFIED WITH THE ELECTRICAL AND MECHANICAL ENGINEER AT JOB SITE.
20. ALL THERMOSTATS ON EXTERIOR WALLS TO BE MOUNTED ON THERMAL ISOLATION BASE.
21. EACH SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CFM IN GROUP A1, 2 & 2.1 GROUP B2 & E OCCUPANCIES SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF. SHUT-OFFS SHALL STOP THE AIR-MOVING EQUIPMENT WHEN SMOKE IS DETECTED IN MAIN SUPPLY AIR DUCT SERVED BY THE SYSTEM. WHEN THE SYSTEM SERVES MORE THAN ONE OCCUPANCY SHUT-OFFS SHALL BE PROVIDED. EXCEPTIONS: DETECTORS NEED NOT BE INSTALLED WHEN ROOMS HAVE A DIRECT EXIT TO THE EXTERIOR OR WHEN SYSTEMS ARE DESIGNED FOR SMOKE CONTROL (SEC. 609. CMC).
22. DUCTS PENETRATING WALLS SHALL BE PROVIDED WITH NECESSARY FRAMES, BRACING AND SMOKE AND ACOUSTICAL SEALANT AROUND THE OPENING.
23. CONTACT BETWEEN DISSIMILAR METALS SHALL BE PROTECTED AS DESCRIBED IN THE SPECIFICATIONS, OR AS NEEDED.
24. THE INSTALLATION OF VALVES, THERMOMETERS, GAUGES, CLEANOUTS, DAMPERS, DUCT ACCESS DOORS OR OTHER INDICATING EQUIPMENT OR SPECIALTIES REQUIRING READING, ADJUSTMENT, INSPECTION, REPAIRS, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED.
25. ALL EQUIPMENT ANCHORAGE, VIBRATION ISOLATION, AND SEISMIC RESTRAINT SYSTEMS FOR ALL EQUIPMENT SHALL BE ENGINEERED, FABRICATED, SUPPLIED AND INSTALLED BY THE APPROPRIATE SUB CONTRACTOR. PROVIDE CALCULATIONS PREPARED BY A LICENSED STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS TO ARCHITECT AND CITY OFFICIALS. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING DEPARTMENT.
26. PIPING AND DUCT IDENTIFICATION MARKINGS AND COLOR CODES SHALL BE IN ACCORDANCE WITH ANSI A13.1 STANDARDS. MARKING SHALL INCLUDE ARROWS INDICATING DIRECTION OF FLOW. MARKINGS SHALL BE INSTALLED AT A MINIMUM OF EVERY 20' ON STRAIGHT RUNS WHERE THERE ARE NOT VISIBILITY OBSTRUCTIONS. IN AREAS WHERE VISIBILITY OF PIPE OR DUCT IS OBSTRUCTED OR NUMEROUS OTHER PIPES AND DUCTS EXIST, MARKINGS SHALL BE INSTALLED AS APPROVED TO ENABLE PIPES AND DUCTS TO BE EASILY TRACED ALONG ITS ENTIRE PATH. PIPES SHALL BE MARKED AND COLOR-CODED.
27. ANY WORK RELATED TO BUILDING AUTOMATION SYSTEM (BAS) SHALL BE PERFORMED BY BAS SUBCONTRACTOR. ALL CONTROL CONDUITS AND WIRING SHALL BE PROVIDED AND INSTALLED BY BAS SUBCONTRACTOR.
28. BAS CONTRACTOR TO PERFORM DETAILED COORDINATION BETWEEN ELECTRICAL AND MECHANICAL DRAWINGS FOR SCOPE OF WORK FOR CONDUIT AND POWER REQUIREMENTS. BAS SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SUCH PROVISION AND INSTALLATION. THESE REQUIREMENTS ONLY APPLY TO CONNECTION THAT UTILIZES VOLTAGE OF 120V OR LESS.

2013 ENERGY EFFICIENCY STANDARDS : MANDATORY MEASURES - HVAC

EQUIPMENT AND SYSTEMS EFFICIENCY

1. ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE ENERGY COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.
2. THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS, HEAT PUMPS AND CONDENSING UNITS > 135,000 BTU/HR; ALL WATER CHILLERS; ALL GAS-FIRED BOILERS > 300,000 BTU/HR; ALL OIL-FIRED BOILERS > 225,000 BTU/HR; AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR FURNACES/AIR CONDITIONING UNITS > 225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
3. PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60F AND 105F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS 123.
4. AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE. DUCTWORK SHALL BE INSULATED AND INSULATION SHALL BE PROTECTED IN ACCORDANCE WITH STANDARDS 124.

CONTROLS

1. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN F.
2. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

VENTILATION

1. CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
2. GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
3. ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
4. IF APPLICABLE, DEMAND CONTROL VENTILATION DEVICES APPROVED BY THE ENERGY COMMISSION SHALL BE PROVIDED FOR HVAC SYSTEMS SERVING ASSEMBLY AREAS, CONCENTRATED USE (WITHOUT FIXED SEATS)" OR "AUCTION ROOMS", AS IDENTIFIED IN CHAPTER 10 OF THE UBC, IF SUCH AREAS ARE SERVED BY SYSTEMS WITH DESIGN OUTDOOR CAPACITIES EQUAL TO OR EXCEEDING 3,000 CFM. THE DEVICE SHALL INCLUDE A SENSOR LOCATED IN THE SPACE.
5. IF APPLICABLE, DEMAND CONTROL VENTILATION DEVICES SHALL ALLOW THE RATE OF OUTDOOR AIR TO BE REDUCED TO 0.15 CFM PER SQUARE FOOT OF CONDITIONED AREA, IF THE DEMAND CONTROL VENTILATION DEVICE INDICATES THAT THE SPACE CONDITIONS ARE ACCEPTABLE. IF THE DEVICE IS A CARBON-DIOXIDE SENSOR, IT SHALL LIMIT THE CARBON DIOXIDE LEVEL TO NO MORE THAN 800 PPM WHILE THE SPACE IS OCCUPIED.
6. DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 25 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS.
7. THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR MECHANICAL VENTILATION OF SECTION 1203 OF THE LOS ANGELES BUILDING CODE.
8. IF APPLICABLE, BUILDING THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121(C).
9. THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS.

COMPLETION AND BALANCING

ALL VENTILATION SYSTEMS SHALL BE DOCUMENTED PER CALIFORNIA SAFETY CODE (TITLE 8, SECTION 5142 (b) TO BE PROVIDING THE MINIMUM REQUIRED VENTILATION RATE AS DETERMINED USING ONE OF THE FOLLOWING PROCEDURES:

1. AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989). REFER TO SPECIFICATION SECTION 23 05 93.
2. OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.
3. OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE.
4. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL INSPECTION. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
6. ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEETMETAL UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT.
7. UNLESS SPECIFIED OTHERWISE, AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY.
8. PROCEDURE APPROVED BY THE ENERGY COMMISSION.

CALIFORNIA GREEN BUILDINGS STANDARDS CODE 2013

1. UNLESS SPECIFIED OTHERWISE, IN NEW MECHANICAL SYSTEMS, PROVIDE AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST MERV 8.
2. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
3. PROVIDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS.
4. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH NEW SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS.
5. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED AND PROVIDED TO THE FIELD INSPECTOR PRIOR TO FINAL APPROVAL. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (2011 LABGC 10.410.4.4).
6. PROVIDE AIR FILTRATION MEDIA MINIMUM OF MERV-11 FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY FOR REGULARLY OCCUPIED AREAS OF THE BUILDING AS PER 2010 CGBSC. SECTION 5.504.5.3 .
7. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE HVAC SYSTEM AND COMPONENTS WILL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS. (2011 LABGC 10.410.4.2).
   - TABB's CONSTRUCTION SPECIFICATIONS INSTITUTE MASTERFORMAT (23 05 93 AND 15990)
   - AABC's NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE (6th EDITION)
   - ASHRAE's STANDARD 111-2008
8. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL.
9. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING NEW HVAC SYSTEMS AND CONTROLS.
10. AN OPERATION AND SYSTEMS MANUAL, SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. (2011 LABGC 10.410.4.5).
11. PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS. SEE PROJECT SPECIFICATION SECTION 23 05 93 "TESTING, ADJUSTING AND BALANCING FOR HVAC" AND SECTION 23 08 00 "COMMISSIONING OF HVAC" FOR DETAILED REQUIREMENTS RELATING TO TESTING, ADJUSTING AND BALANCING OF HVAC SYSTEMS, AS WELL AS RELATED TEST AND BALANCE PROCEDURES, REPORTING, EQUIPMENT OPERATION AND MAINTENANCE MANUALS, INSPECTIONS AND REPORTS."
12. PROVIDE CO2 SENSORS FOR DEMAND CONTROL VENTILATION.
13. PROVIDE TEMPORARY VENTILATION DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 121 CALIFORNIA ENERGY CODE AND AS PER POLLUTION CONTROL SECTION OF 2010 CGBSC. SECTION: 5.714.4.1.
14. PROVIDE COVERS AND PROTECTION ON ANY DUCT OPENINGS AND MECHANICAL EQUIPMENTS AS PER 2010 CGBSC. SECTION: 5.504.3.
15. INDOOR MOISTURE CONTROL SHALL BE IN COMPLY WITH TITLE 24 , PART2 SECTION 1203 AS PER 2010 CGBSC. SECTION 5.505.1.

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT LAX PMD

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

NOTES, CODES AND LEGEND

SHEET NO.
4-M-001
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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FAN COIL UNIT SPLIT SYSTEM- INDOOR UNIT (RAC MAIN ELECTRICAL ROOM)

ITEM NO.	MANUFACTURER MODEL NO.	AREA & ROOMS SERVED	CFM (HIGH SPEED)	STATIC PRESSURE (IN. WG)	FAN		ELECTRICAL			DX COIL					REFRIG. PIPE DIA. CONNECTION SIZE (INCH)		UNIT OPERATING WT.= LBS	ANCHORAGE DETAIL	REMARKS
					BHP	FLA	MCA	MOCP	V–ø–HZ	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT DB/WB (°F)	LAT DB/WB (°F)	COIL ROWS	RL	RS			
FC RACE1-1	CARRIER 40RUA	ELECTRICAL ROOM "TR–RAC/EVP1"	4000	0.5	2.08	2.4	5.0	15.0	460–3–60	128.1	119.6	85/67	57.3/56.8	4	–/–	–/–	425		
FC RACE–1–2	CARRIER 40RUA	ELECTRICAL ROOM "TR–RAC/EVP2"	4000	0.5	2.08	2.4	5.0	15.0	460–3–60	128.1	119.6	85/67	57.3/56.8	4	–/–	–/–	425		

REMARKS: (1) PROVIDE CONDENSATE PUMP, VALVES, AND ACCESSORIES. (2) PROVIDE SECONDARY DRAIN PAN. (3) PROVIDE CONDENSATE HIGH LIMIT OVERFLOW SWITCH.

*POWERED FROM OUTDOOR UNIT.

CONDENSING UNIT - OUTDOOR UNIT (RAC MAIN ELECTRICAL ROOM)

ITEM NO.	MANUFACTURER MODEL NO.	UNIT SERVED	EER	IEER	ELECTRICAL			UNIT OPERATING WT.= LBS	ANCHORAGE DETAIL	REMARKS
					MCA	MOCP	V–ø–HZ			
CU RACE–1–1	CARRIER 38AUD	FC RACE–1–1	11.2	13.0	19	25	460–3–60	516		
CU RACE–1–2	CARRIER 38AUD	FC RACE–1–2	11.2	13.0	19	25	460–3–60	516		

(1) –
(2) R–410 REFRIGERANT, 26 LBS EACH

FAN COIL UNIT SPLIT SYSTEM- INDOOR UNIT - RAC

ITEM NO.	MANUFACTURER MODEL NO.	AREA & ROOMS SERVED	CFM (HIGH SPEED)	STATIC PRESSURE (IN. WG)	ELECTRICAL				DX COIL						REFRIG. PIPE DIA. CONNECTION SIZE (INCH)		UNIT OPERATING WT.= LBS	ANCHORAGE DETAIL	REMARKS
					BREAK HP	FLA	MOCP	V–ø–HZ	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT DB/WB (°F)	LAT DB/WB (°F)	AIR P.D. (IN.WG)	COIL ROWS	RL	RS			
FC RAC1–1	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–2	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–3	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–4	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–5	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–6	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–7	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC1–8	YORK AHX61D	ELECT/DATA RAC LEVEL 1	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–1	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–2	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–3	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–4	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–5	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1960	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–6	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–7	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC2–8	YORK AHX61D	ELECT/DATA RAC LEVEL 2	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–1	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–2	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–3	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–4	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–5	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–6	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–7	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		
FC RAC3–8	YORK AHX61D	ELECT/DATA RAC LEVEL 3	1950	0.3	–	–	–	208–1–60	57700	41300	80/69	60.4/57.7	–	–	7/8	5/8	200		

REMARKS: (1) PROVIDE CONDENSATE PUMP, VALVES, AND ACCESSORIES. (2) PROVIDE SECONDARY DRAIN PAN. (3) PROVIDE CONDENSATE HIGH LIMIT OVERFLOW SWITCH.

*POWERED FROM OUTDOOR UNIT.

CONDENSING UNIT - OUTDOOR UNIT - RAC

ITEM NO.	MANUFACTURER MODEL NO.	UNIT SERVED	COOLING TOTAL (BTU/h)	HEATING LOAD (BTU/h)	EER	IEER	COP	ELECTRICAL			UNIT OPERATING WT.= LBS	ANCHORAGE DETAIL	REMARKS
								MCA	MOCP	V–ø–HZ			
CU RAC1–1	YORK YZH060	FC RAC1–1	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–2	YORK YZH060	FC RAC1–2	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–3	YORK YZH060	FC RAC1–3	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–4	YORK YZH060	FC RAC1–4	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–5	YORK YZH060	FC RAC1–5	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–6	YORK YZH060	FC RAC1–6	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–7	YORK YZH060	FC RAC1–7	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC1–8	YORK YZH060	FC RAC1–8	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–1	YORK YZH060	FC RAC2–1	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–2	YORK YZH060	FC RAC2–2	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–3	YORK YZH060	FC RAC2–3	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–4	YORK YZH060	FC RAC2–4	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–5	YORK YZH060	FC RAC2–5	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–6	YORK YZH060	FC RAC2–6	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–7	YORK YZH060	FC RAC2–7	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC2–8	YORK YZH060	FC RAC2–8	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–1	YORK YZH060	FC RAC3–1	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–2	YORK YZH060	FC RAC3–2	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–3	YORK YZH060	FC RAC3–3	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–4	YORK YZH060	FC RAC3–4	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–5	YORK YZH060	FC RAC3–5	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–6	YORK YZH060	FC RAC3–6	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–7	YORK YZH060	FC RAC3–7	57700	–	11.5	16.5	–	–	–	208–1–60	500		
CU RAC3–8	YORK YZH060	FC RAC3–8	57700	–	11.5	16.5	–	–	–	208–1–60	500		

REMARKS: (1) – (2) R–410 REFRIGERANT, 26 LBS EACH

EXHAUST FAN SCHEDULE - CSB

ITEM NO.	MANUFACTURER & MODEL NO.	AREA SERVED	LOCATION	FAN TYPE	AIR QTY CFM	ESP IN H_2O	FAN RPM	BHP (W)	MOTOR			DRIVE	APPROX. UNIT WT.= LBS.	ANCHORAGE DETAIL	REMARKS
									RPM	MIN. H.P.	V–ø–HZ				
EF C1–1	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C1–2	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C1–3	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C1–4	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C1–5	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C1–6	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 1	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–1	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–2	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–3	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–4	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–5	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C2–6	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 2	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–1	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–2	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–3	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–4	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–5	GREENHECK BSQ–130–7	WOMEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		
EF C3–6	GREENHECK BSQ–130–7	MEN'S RESTROOM	CSB LEVEL 3	BELT DRIVE CENTRIFUGAL INLINE FAN	600	0.7	1,725	0.18	1725	1/2	208–1–60	BELT	100		

REMARKS: (1) PROVIDE NEW ROOF CURB AND BACKDRAFT DAMPER. (2) INTERLOCK WITH ON–OFF LIGHT SWITCH. (3) INTERLOCK WITH THERMOSTAT. (6) PROVIDE RUBBER GOURMET MOUNTING KIT. (4) INTERLOCK WITH GRAVITY VENT AND THERMOSTAT. (5) PROVIDE DIRECT DRIVE.

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

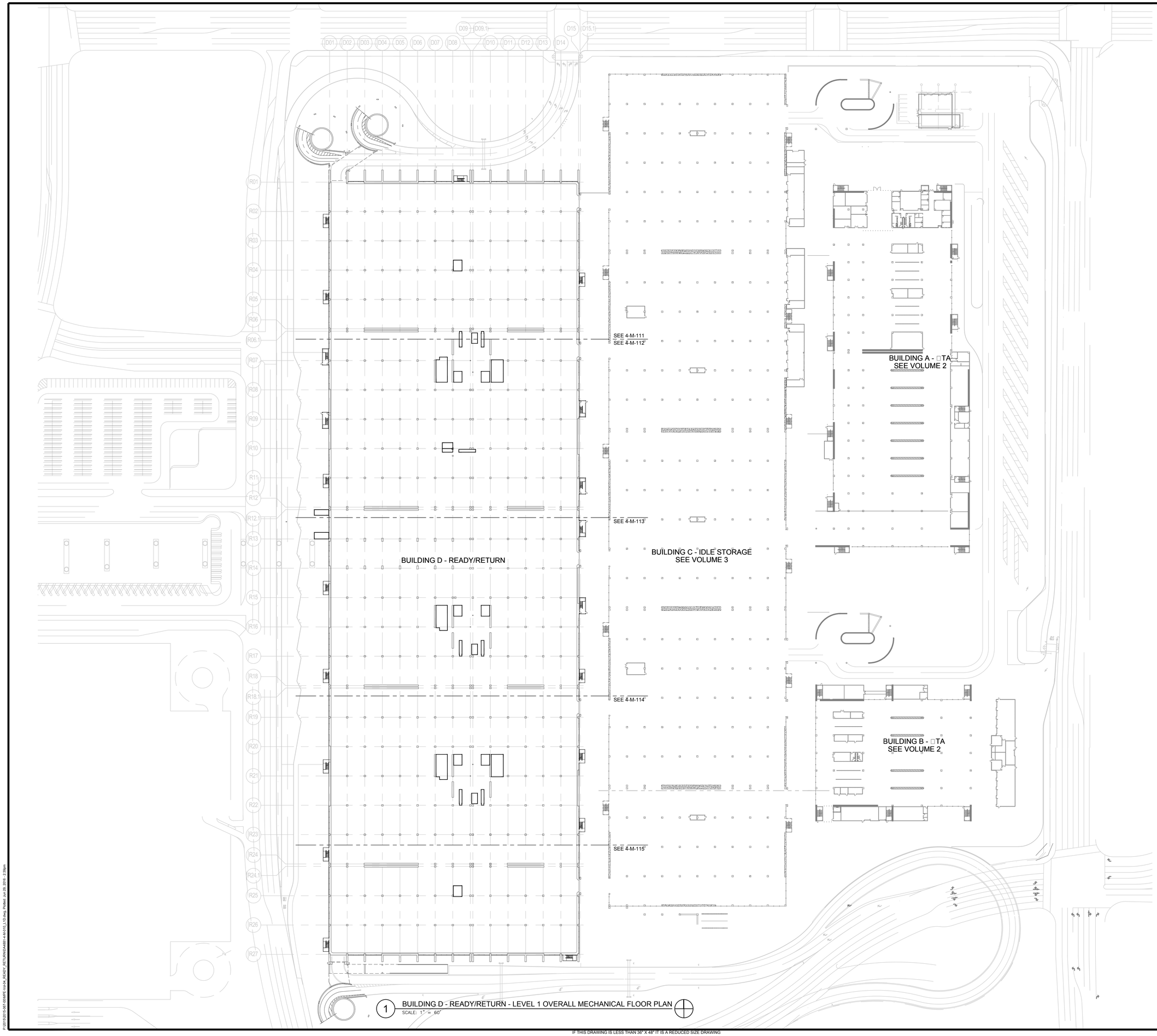
REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
MECHANICAL E□UIPMENT SCHEDULE

SHEET NO.
4-M-002
SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL MECHANICAL FLOOR PLAN

SCALE: 1" = 60'

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANY PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: TH
DRAWN BY: LC
CHECKED BY: NP

SHEET TITLE:

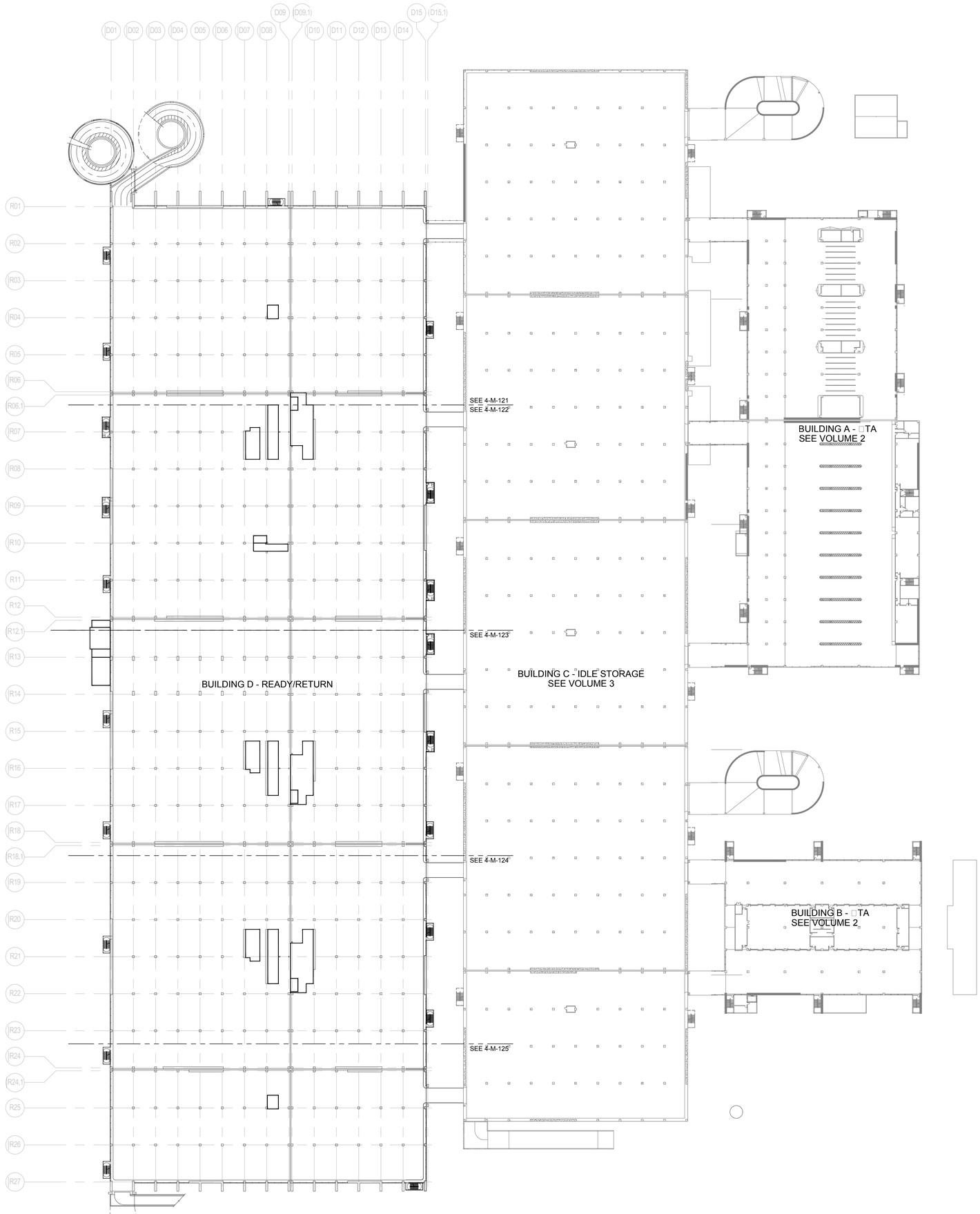
READY/ RETURN LEVEL 1 OVERALL MECHANICAL FLOOR PLAN

SHEET NO.

4-M-010

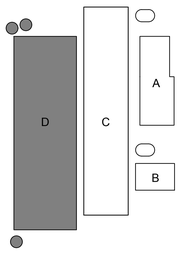
SHEET OF

P:\2015\2015-067-00\MFS-10-04_READY_RETURN\DA4881-4-M-010_L10.dwg, Plotted: Jun 29, 2016 - 2:39pm



1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL MECHANICAL FLOOR PLAN

SCALE: 1" = 60'



KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TranSystems
801 South Grand
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Los Angeles, California 90017
Phone: (562) 594-6974
Fax: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

PBS ENGINEERS
2100 EAST ROUTE 66, SUITE 101
GLENDORA, CA 91740
Voice: 626.650.0350
Fax: 626.650.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANY PMD LAX

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: TH
DRAWN BY: LC
CHECKED BY: NP

SHEET TITLE:

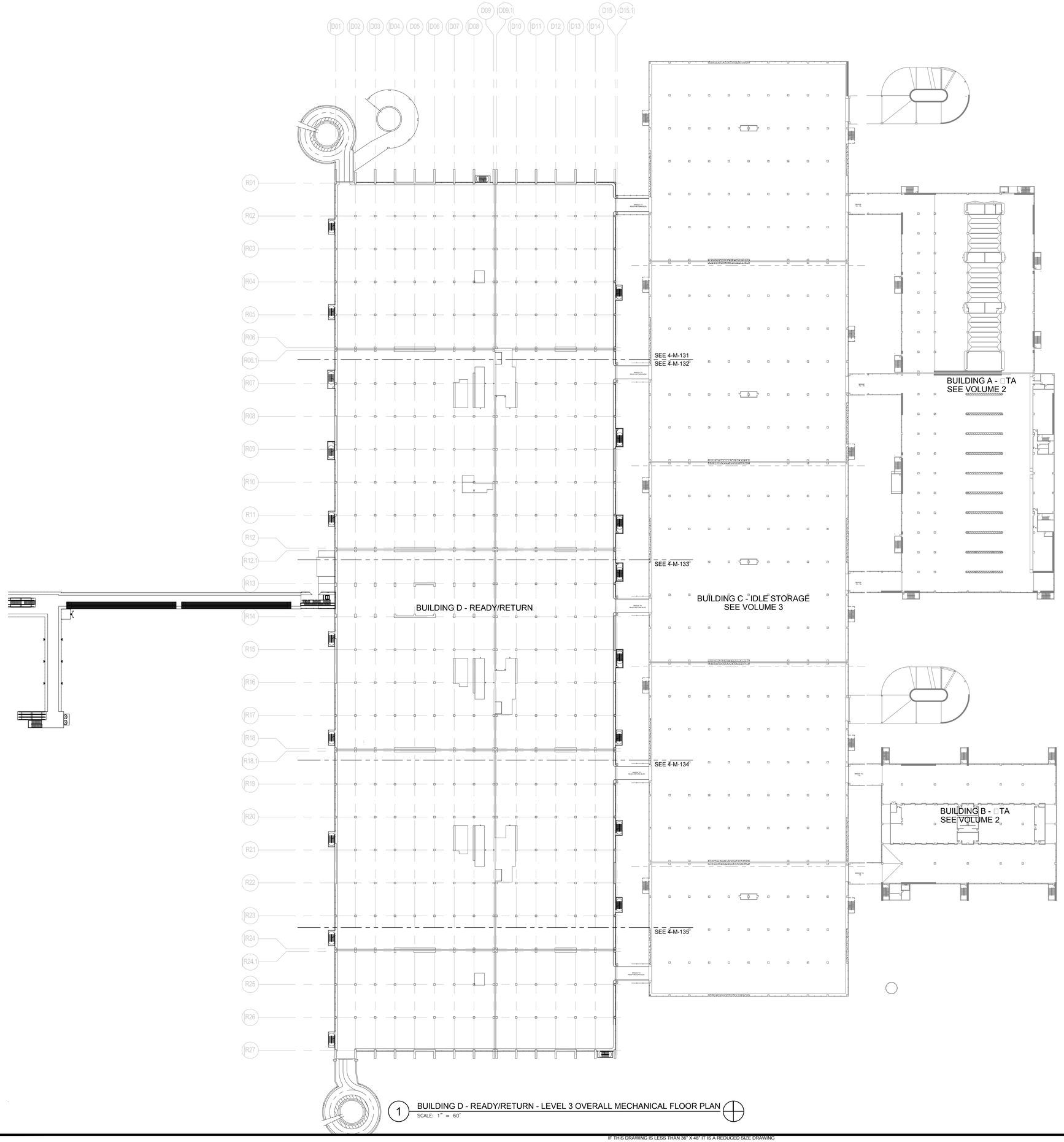
READY/ RETURN LEVEL 2 OVERALL MECHANICAL FLOOR PLAN

SHEET NO.

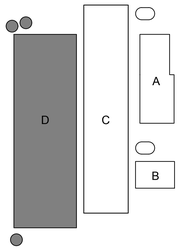
4-M-020

SHEET OF

P:\2015\2015-067-00\MFS-10-04_READY_RETURN\DA4881-4-M-020_LD.dwg Plotted: Jun 29, 2016 - 2:39pm



1 BUILDING D - READY/RETURN - LEVEL 3 OVERALL MECHANICAL FLOOR PLAN
SCALE: 1" = 60'



KEYPLAN

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CONSULTANTS:

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Proj. No.: 2015-067-00

Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: TH
DRAWN BY: LC
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 3 OVERALL MECHANICAL FLOOR PLAN

SHEET NO.

4-M-030

SHEET OF

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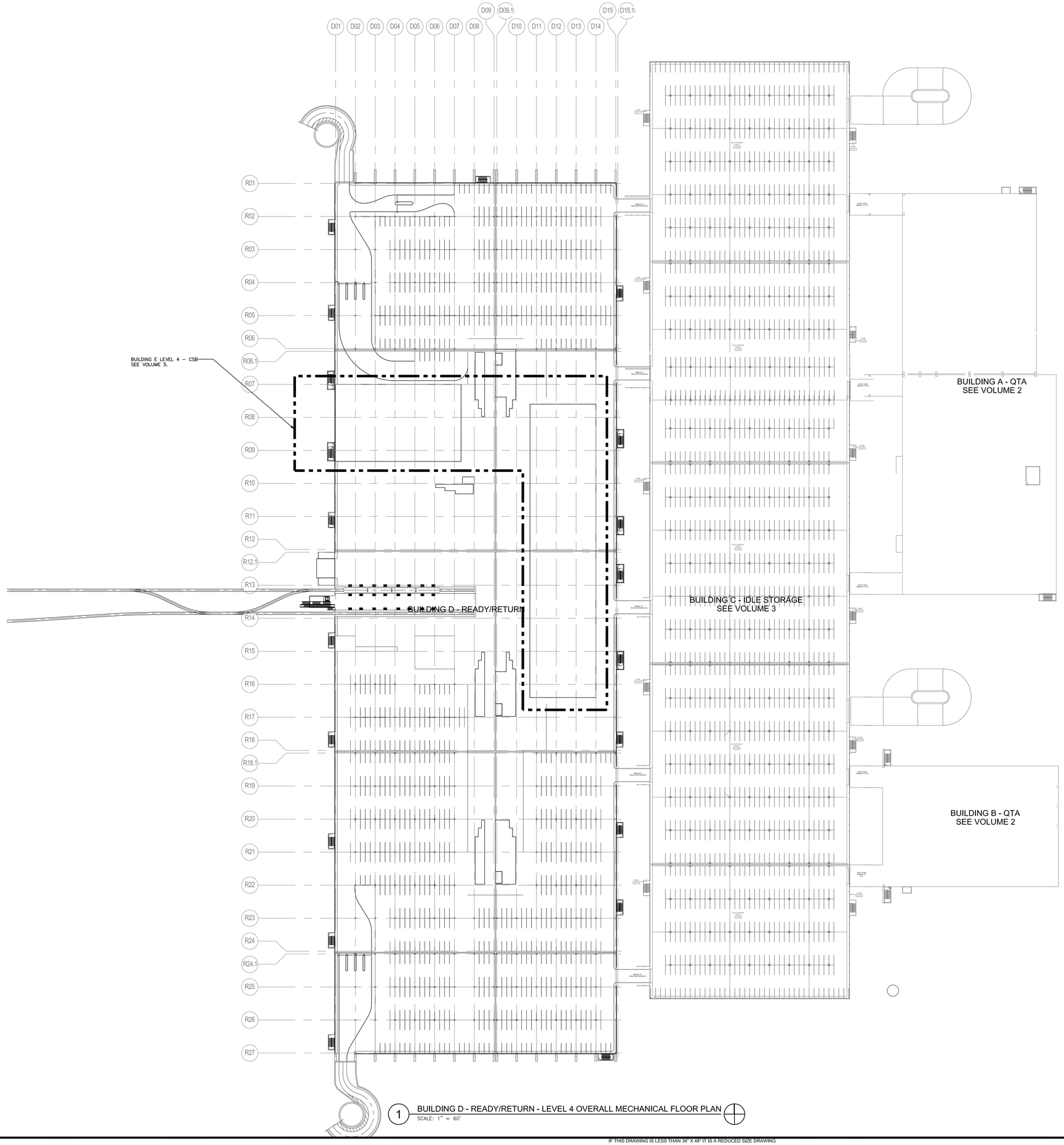
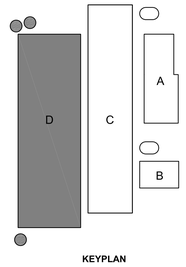


1 BUILDING D - READY/RETURN - LEVEL 4 OVERALL MECHANICAL FLOOR PLAN

SCALE: 1" = 60'



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Los Angeles World Airports

Project

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Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1" = 60'
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

READY / RETURN LEVEL 4 OVERALL MECHANICAL FLOOR PLAN

SHEET NO.

4-M-040

SHEET OF

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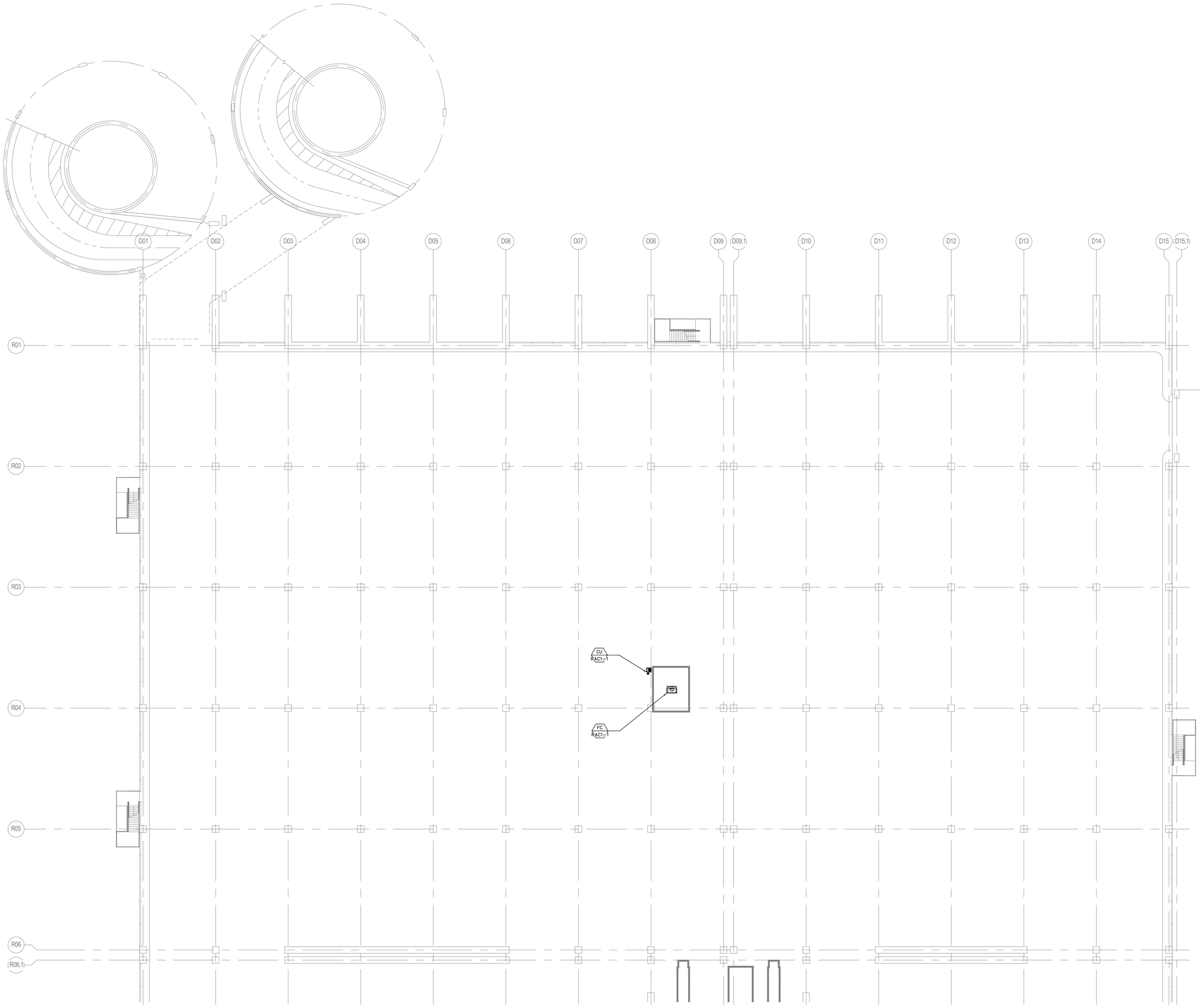

1 BUILDING D - READY/RETURN - LEVEL 1 MECHANICAL FLOOR PLAN - ZONE 1
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
5. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

KEY NOTES

1

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles World Airports

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

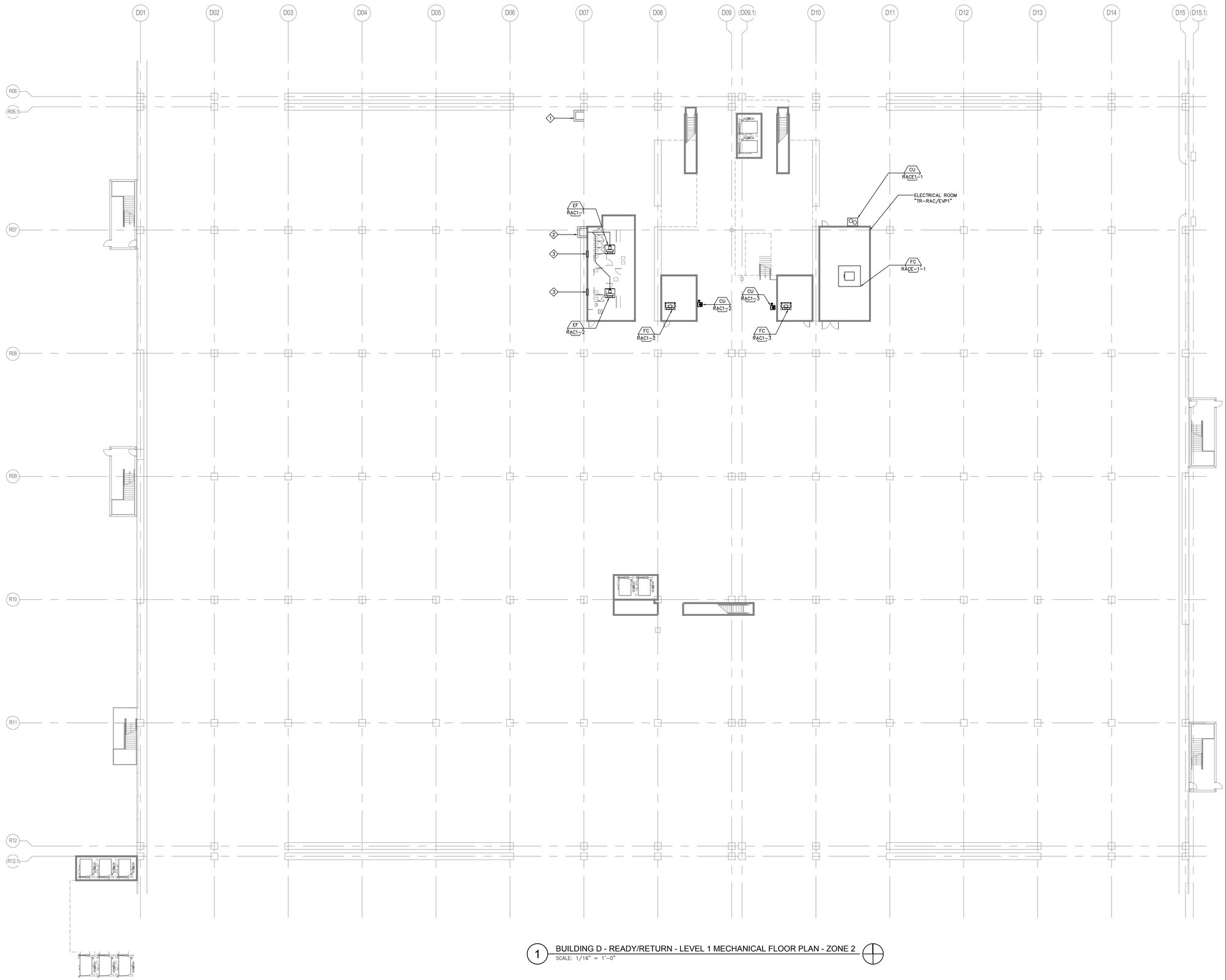
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 1 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-111
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 1 MECHANICAL FLOOR PLAN - ZONE 2

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
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KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Proj. No: 2010-0007-00

Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 1 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-112

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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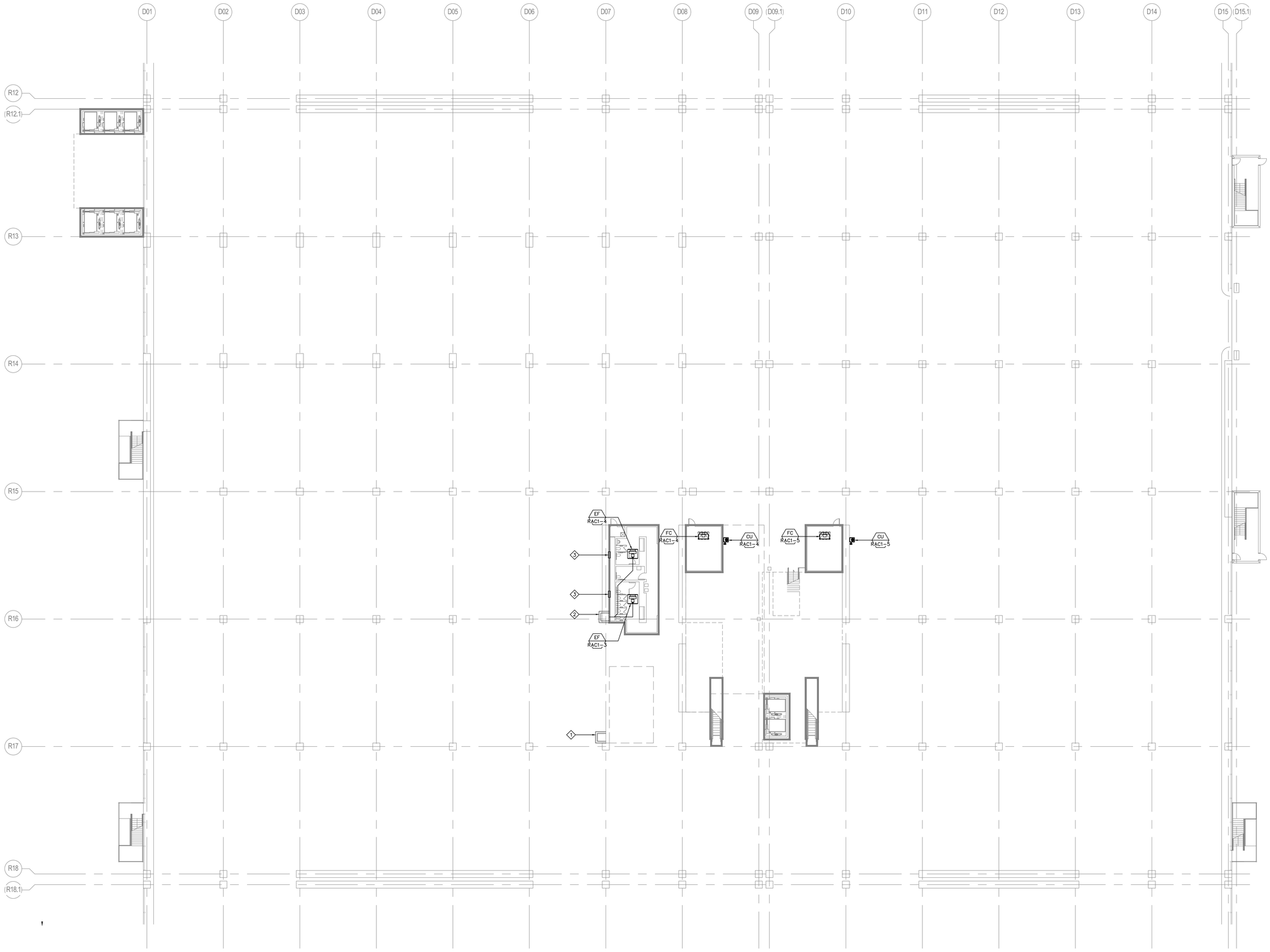

1 BUILDING D - READY/RETURN - LEVEL 1 MECHANICAL FLOOR PLAN - ZONE 3

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
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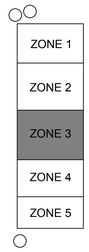
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
5. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.



BUILDING D KEYPLAN

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CONSULTANTS:

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

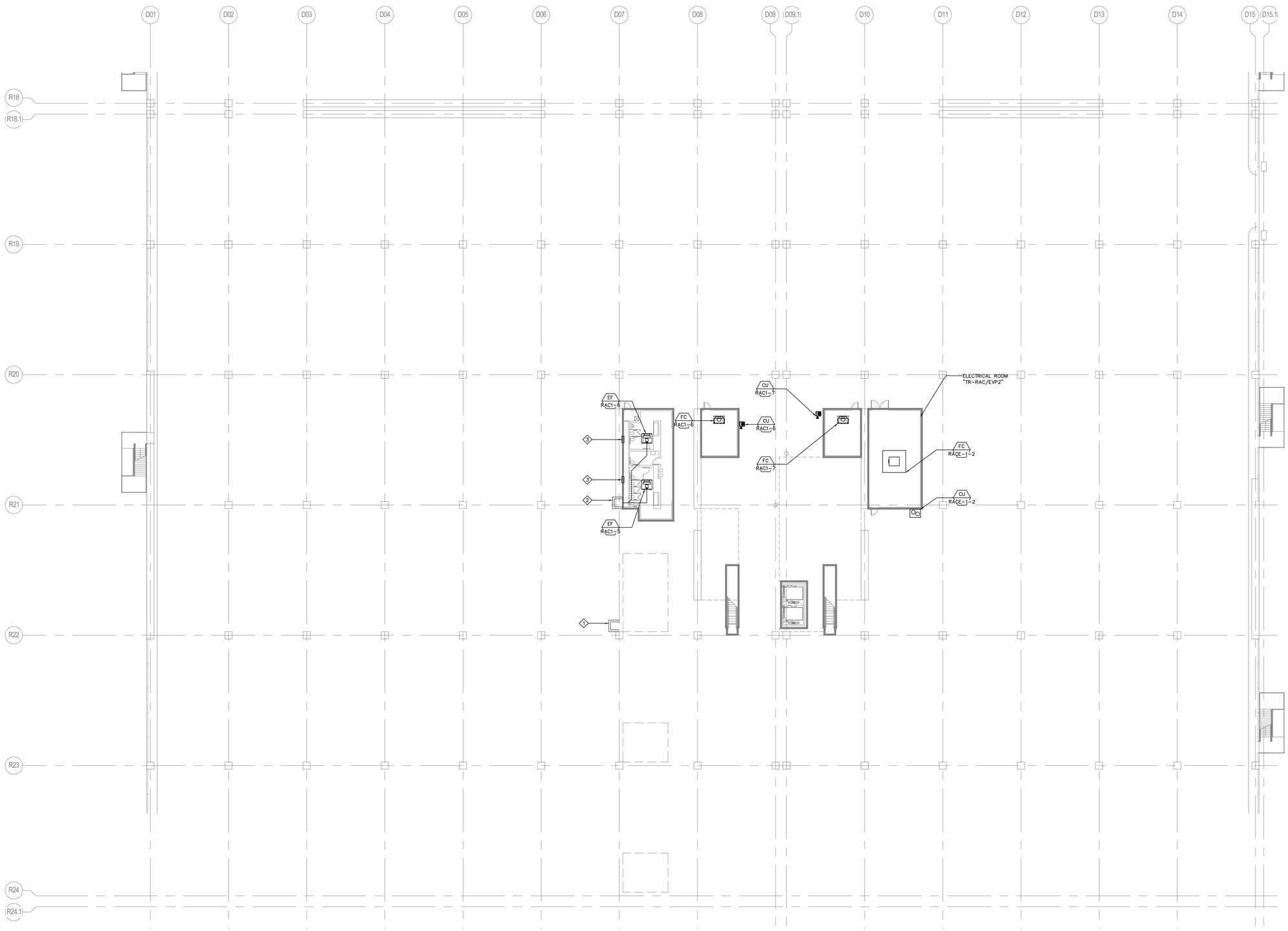
READY/ RETURN LEVEL 1 MECHANICAL FLOOR PLAN

SHEET NO.

4-M-113

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 1 MECHANICAL FLOOR PLAN - ZONE 4

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
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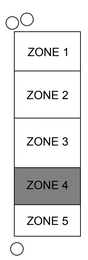
KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.



BUILDING D KEYPLAN

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Los Angeles, California 90017
Phone: (562) 594-6974
Fax: (562) 594-6975

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CONSULTANTS:
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GLENDORA, CA 91740
VOICE: 626.650.0352
FAX: 626.650.0352
PROJ. NO: 2010-0007-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 1 MECHANICAL FLOOR PLAN

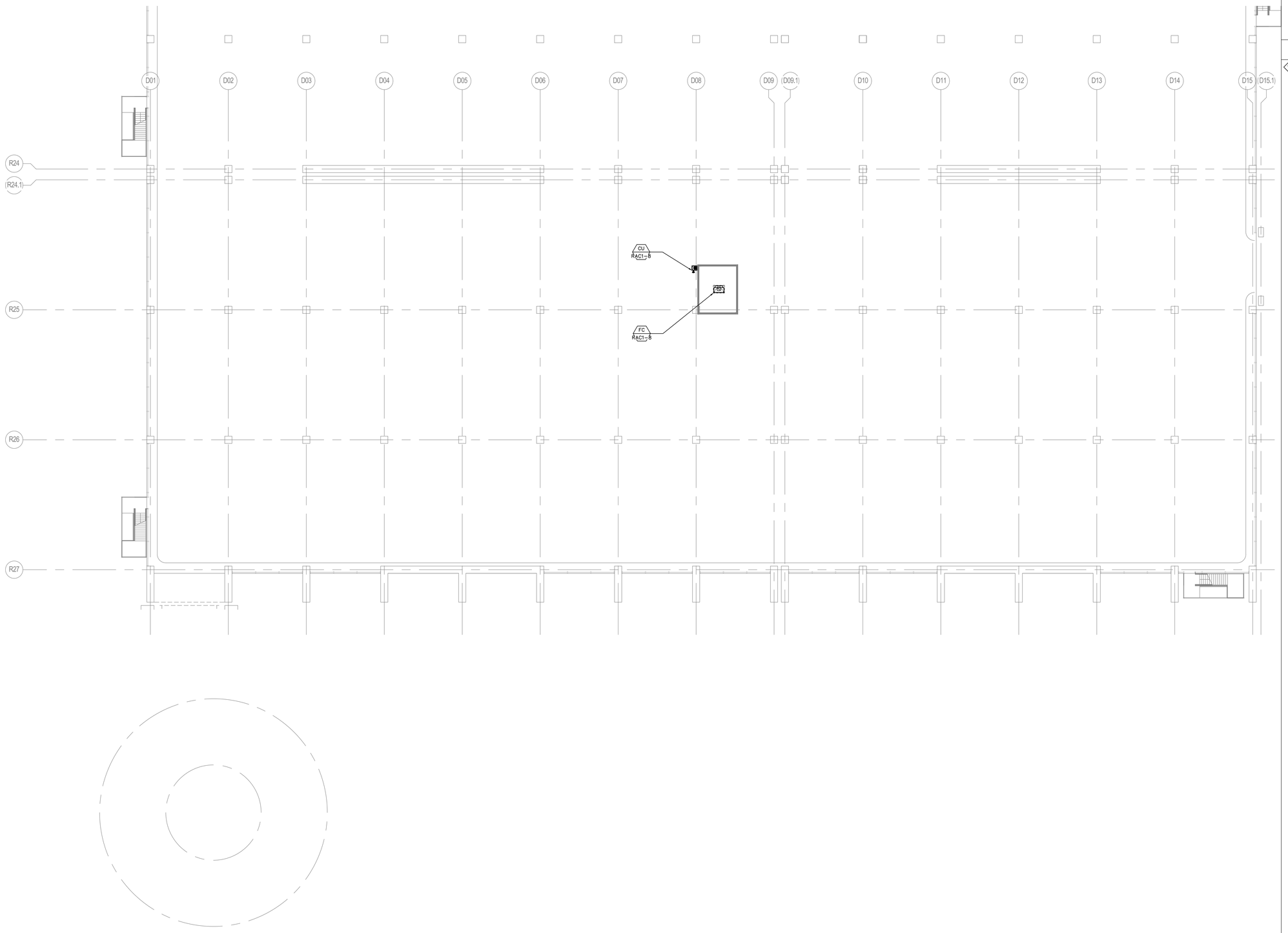
SHEET NO.

4-M-114

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-007-00\MPE-Vol-04_READY_RETURN\DA4881-4-M-114_L1D.dwg, Plotted: Jun 29, 2016 - 2:40pm



1 BUILDING D - READY/RETURN - LEVEL 1 MECHANICAL FLOOR PLAN - ZONE 5
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
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3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
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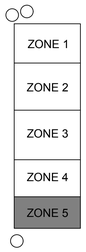
KEY NOTES

1 --



BUILDING D KEYPLAN

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CONSULTANTS:

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Fax: 626.650.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

PMD ONT LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 1 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-115
SHEET OF

P:\2015\2015-067-00\MPE-Vol-04_READY_RETURN\DA4881-4-M-115_L1D.dwg, Plotted: Jun 29, 2016 - 2:40pm

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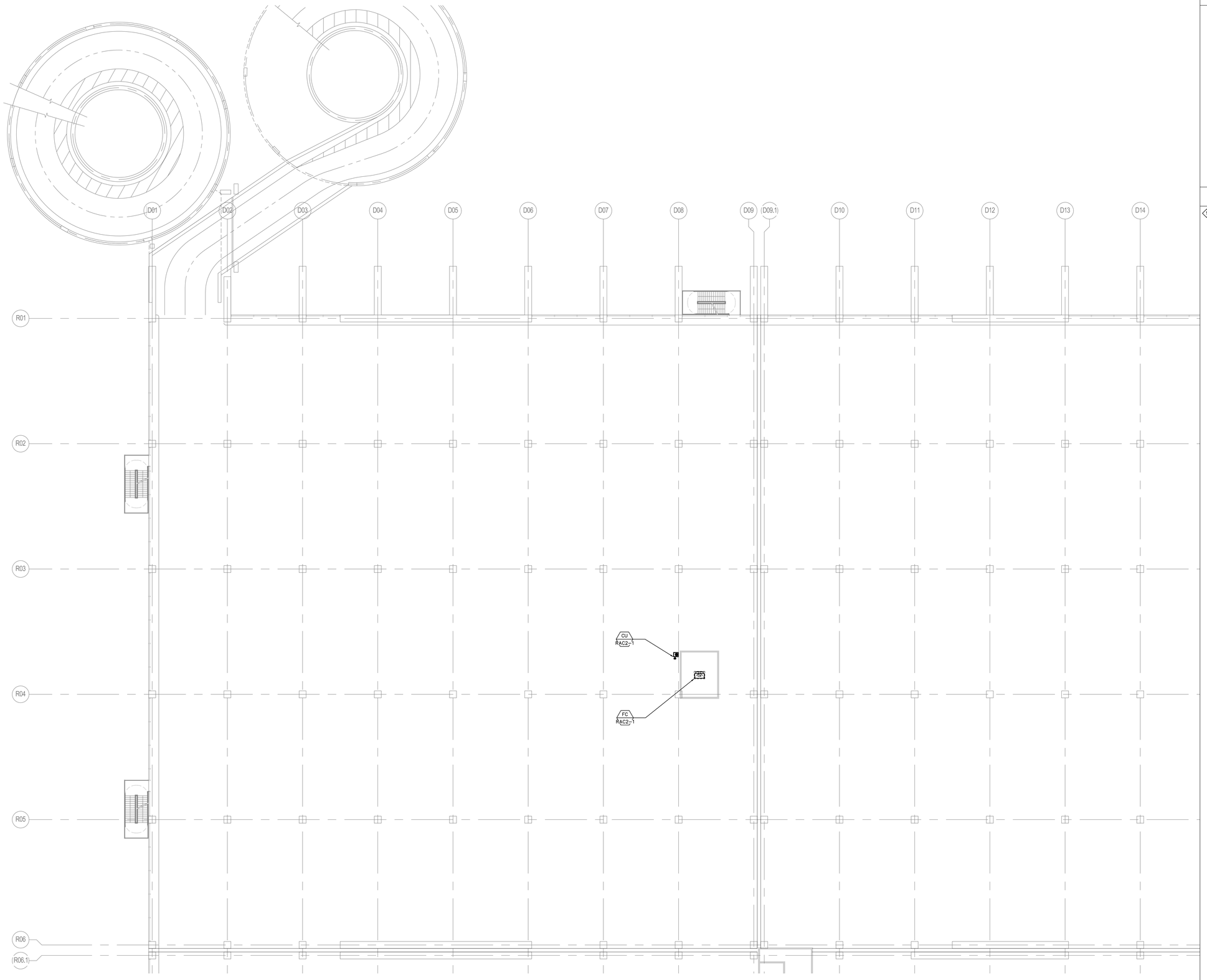

1 BUILDING D - READY/RETURN - LEVEL 2 MECHANICAL FLOOR PLAN - ZONE 1
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
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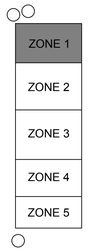
KEY NOTES

1 --



BUILDING D KEYPLAN

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Proj. No.: 2015-067-00

Los Angeles World Airports
Project
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Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

REVISIONS:

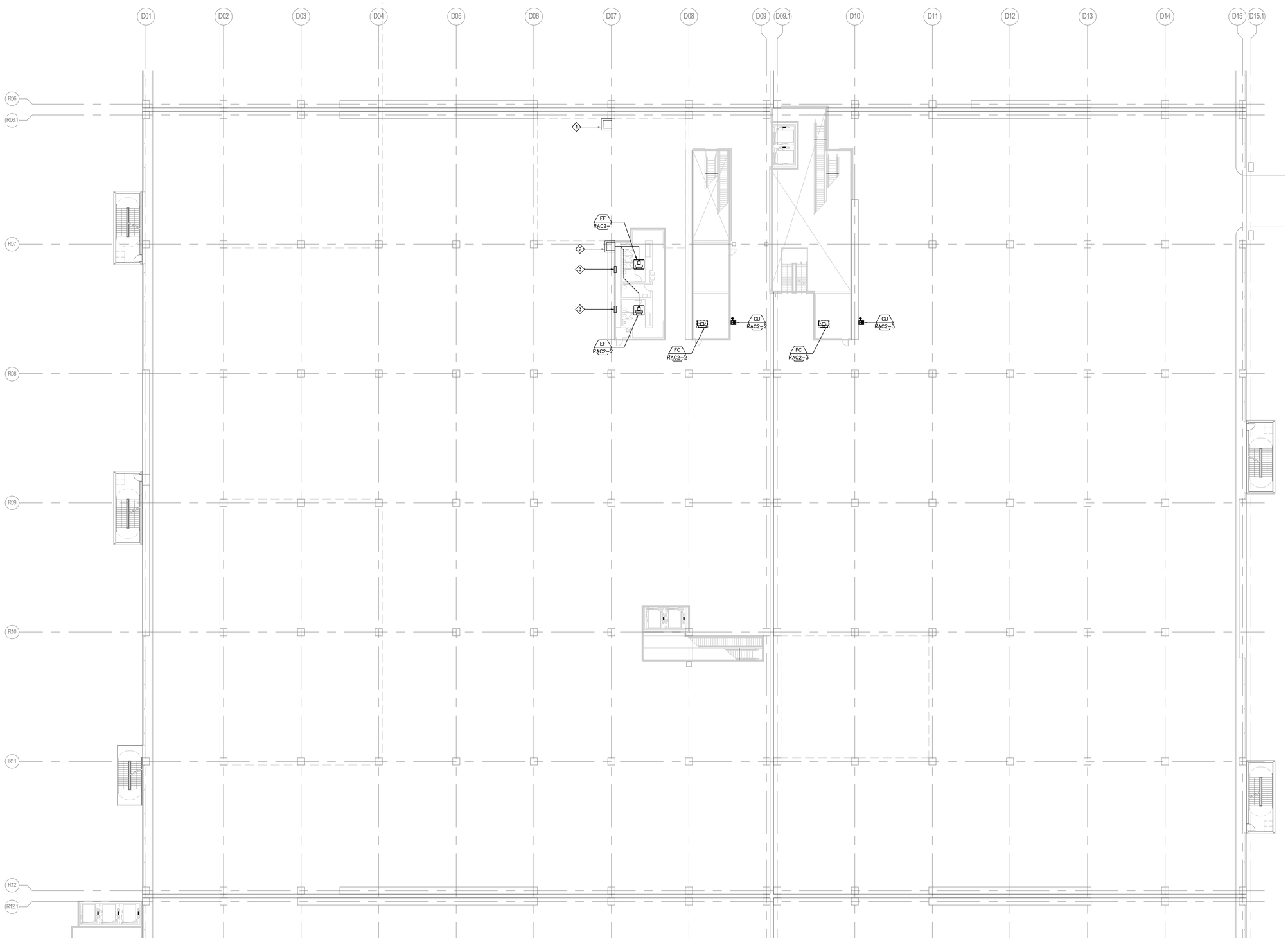
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 2 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-121
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 MECHANICAL FLOOR PLAN - ZONE 2

SCALE: 1/16" = 1'-0"

GENERAL NOTES

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KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 2 MECHANICAL

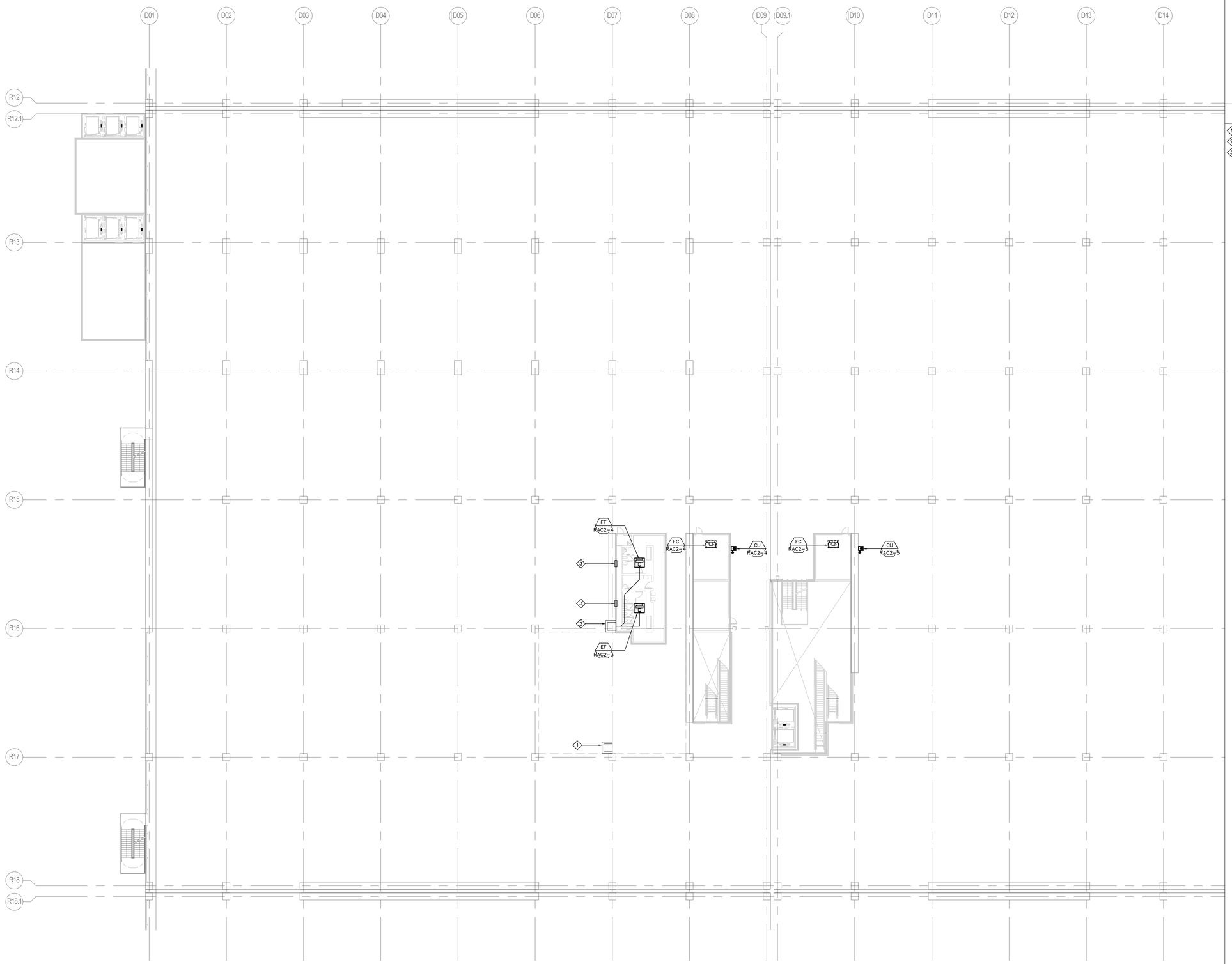
SHEET NO.

4-M-122

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\MPE\Vol-04_READY_RETURN\DA4881-4-M-122_LDD.dwg, Plotted: Jun 29, 2016 - 2:41pm



1 BUILDING D - READY/RETURN - LEVEL 2 MECHANICAL FLOOR PLAN - ZONE 3

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
5. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

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Los Angeles World Airports

Project

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Los Angeles International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 2 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-123

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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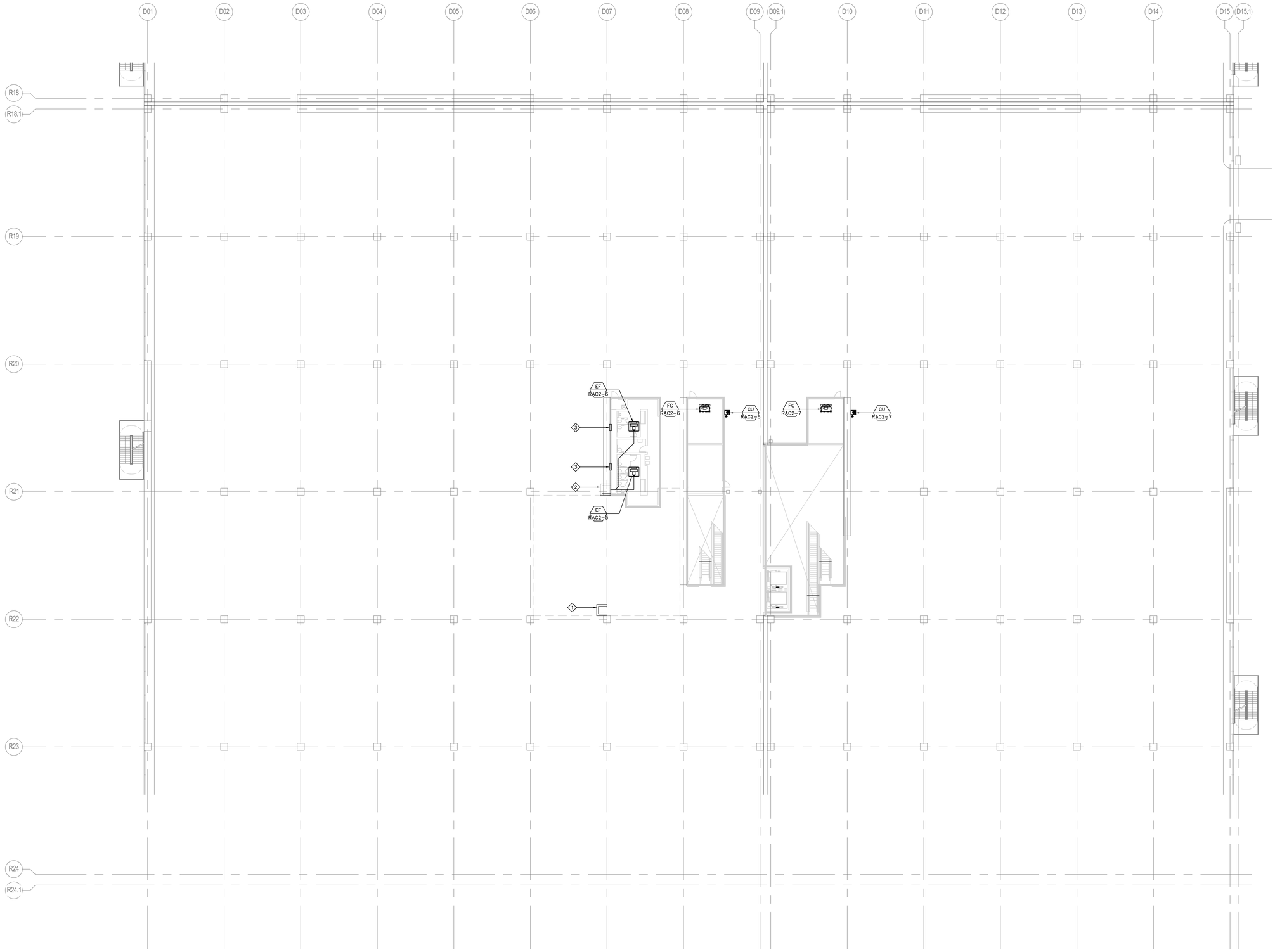

1 BUILDING D - READY/RETURN - LEVEL 2 MECHANICAL FLOOR PLAN - ZONE 4
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. COORDINATE LOCATION OF RETURN AIR GRILLES AND SUPPLY AIR DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR. CONTRACTOR TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE INSIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. THE BOTTOM OF CEILING MOUNTED HVAC UNITS SHALL BE LOCATED MAXIMUM 1'-0" ABOVE CEILING AND CLEAR FROM ANY OBSTRUCTIONS FOR INSPECTIONS AND MAINTENANCE.
5. PROVIDE 24" CLEAR SPACE HORIZONTALLY AROUND VAV BOX AND FAN COIL UNIT FOR INSPECTION AND MAINTENANCE.
6. ALL HVAC EQUIPMENT HUNG OR MOUNTED SHALL BE PROVIDED WITH VIBRATION ISOLATORS AND SEISMIC RESTRAINTS UNLESS OTHERWISE NOTED.

KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

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Los Angeles World Airports
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Los Angeles International Airport

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APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 2 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-124
SHEET OF

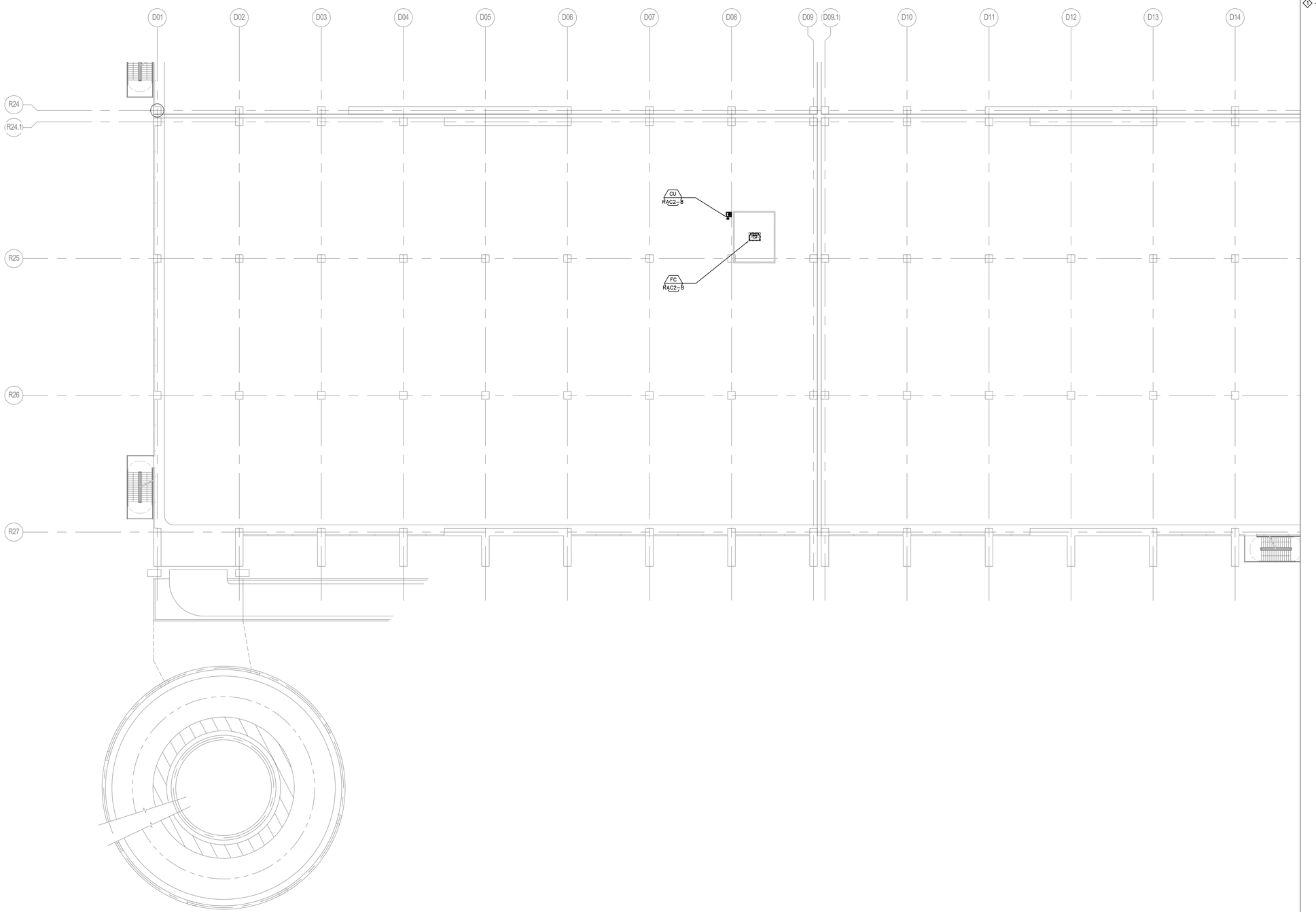
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

GENERAL NOTES

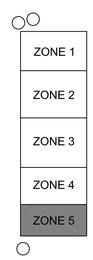
1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
5. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

KEY NOTES

1 --



1 BUILDING D - READY/RETURN - LEVEL 2 MECHANICAL FLOOR PLAN - ZONE 5
SCALE: 1/16" = 1'-0"



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Los Angeles World Airports
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Los Angeles International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:		
MARK:	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 2 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-125
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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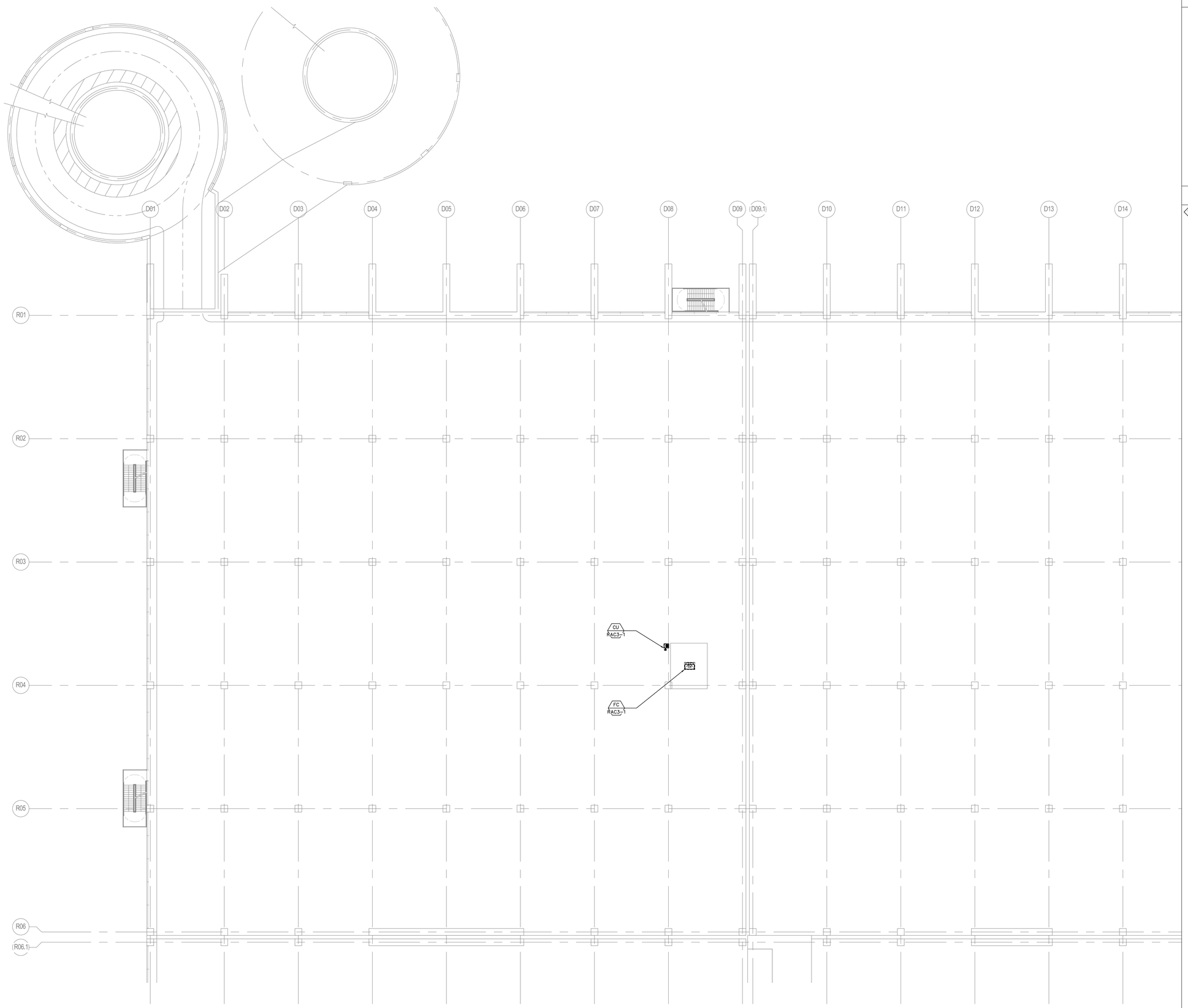

1 BUILDING D - READY/RETURN - LEVEL 3 MECHANCIAL FLOOR PLAN - ZONE 1

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
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3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
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KEY NOTES

1 --

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

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Los Angeles World Airports

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Los Angeles International Airport

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APPROVED BY CHIEF AIRPORTS ENGINEER

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REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

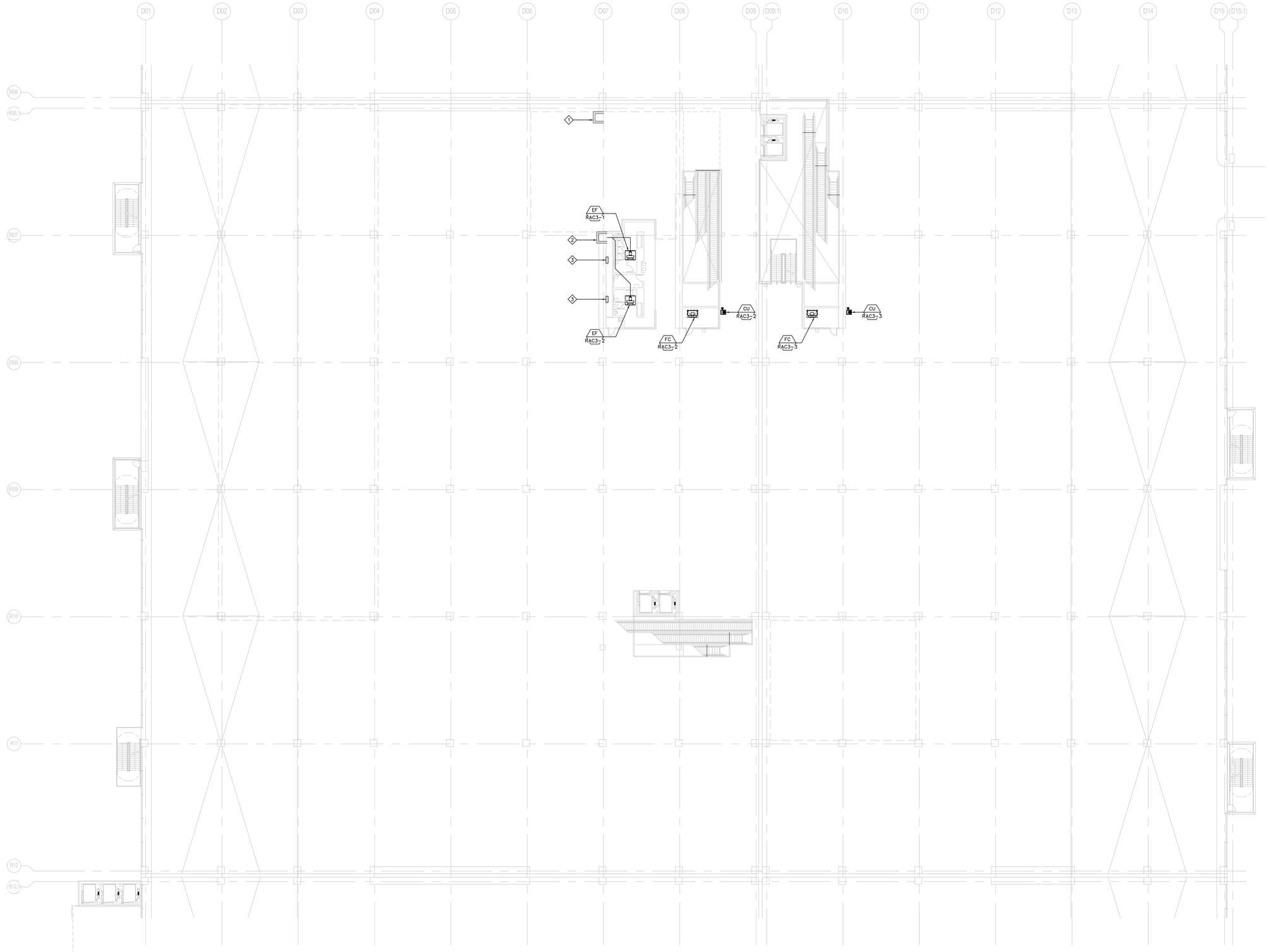
SHEET TITLE:
READY/ RETURN LEVEL 3 MECHANICAL FLOOR PLAN

SHEET NO.
4-M-131

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-DEF-00\MPE-Vol-04_READY_RETURN\DA4881-4-M-131_L30.dwg, Plotted: Jun 29, 2016 - 2:41pm



1 BUILDING D - READY/RETURN - LEVEL 3 MECHANICAL FLOOR PLAN - ZONE 2
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
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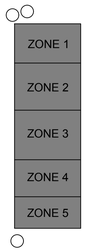
KEY NOTES

1. OUTSIDE AIR SHAFT UP THRU ROOF.
2. EXHAUST AIR SHAFT UP THRU ROOF.
3. WALL LOUVER @ 8'-0" ABOVE FINISH FLOOR.



BUILDING D KEYPLAN

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

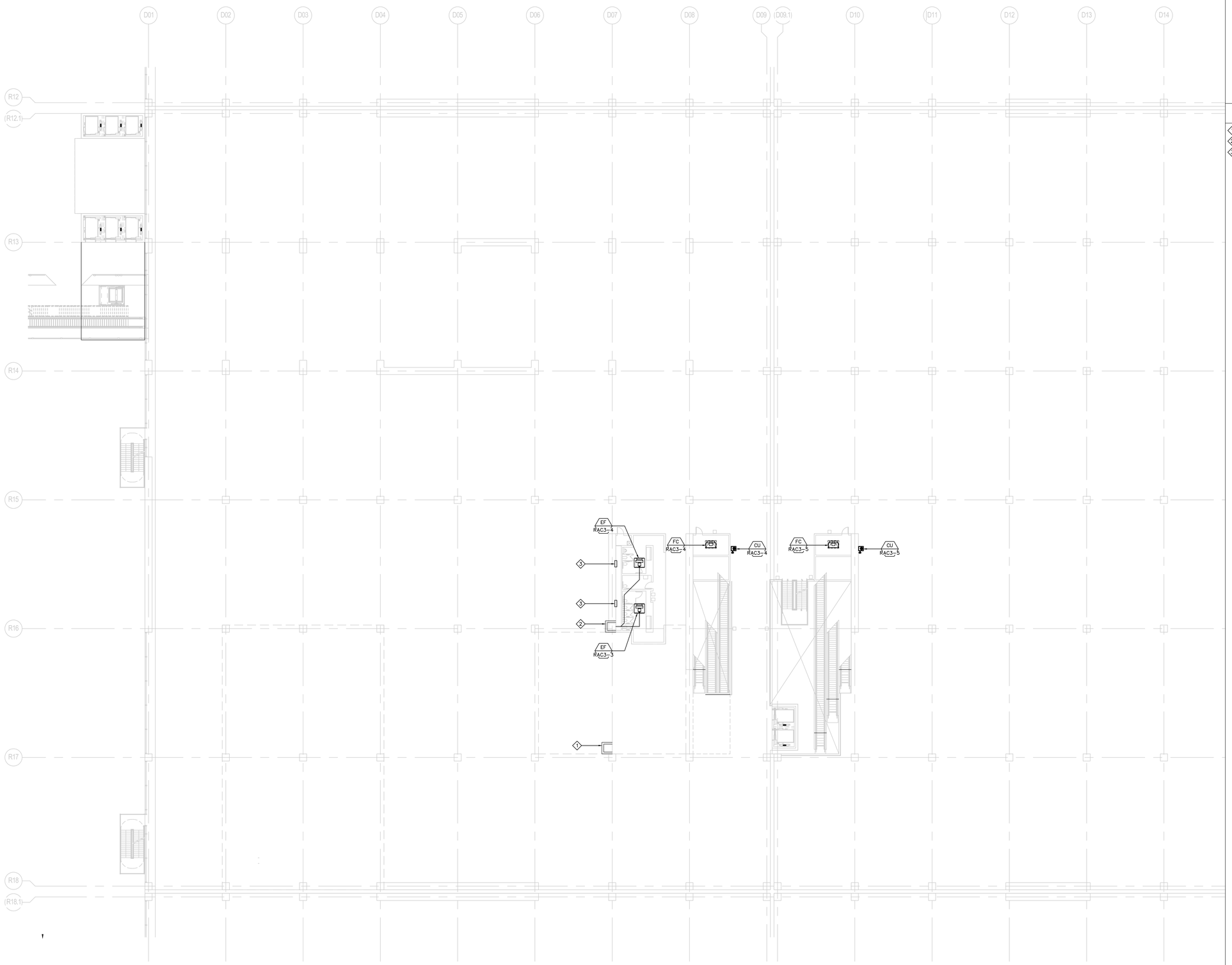
READY/ RETURN LEVEL 3 MECHANICAL FLOOR PLAN

SHEET NO.

4-M-132

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 MECHANICAL FLOOR PLAN - ZONE 3
SCALE: 1/16" = 1'-0"

GENERAL NOTES

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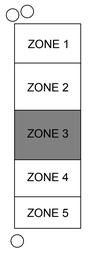

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: NP
DRAWN BY: NP
CHECKED BY: NP

SHEET TITLE:

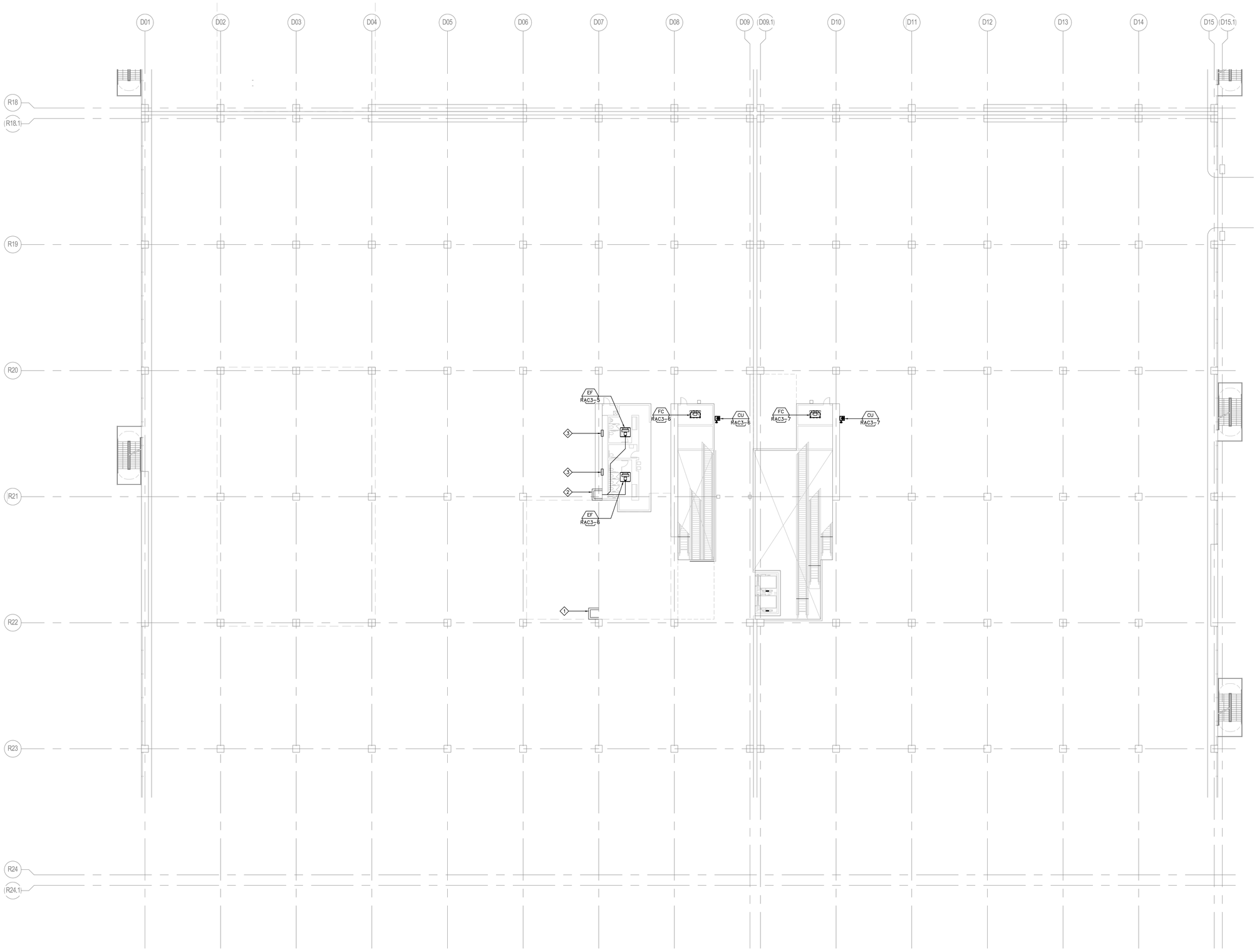
READY/ RETURN LEVEL 3 MECHANICAL FLOOR PLAN

SHEET NO.

4-M-133

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 MECHANICAL FLOOR PLAN - ZONE 4

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
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KEY NOTES

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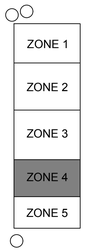

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 3 MECHANICAL FLOOR PLAN

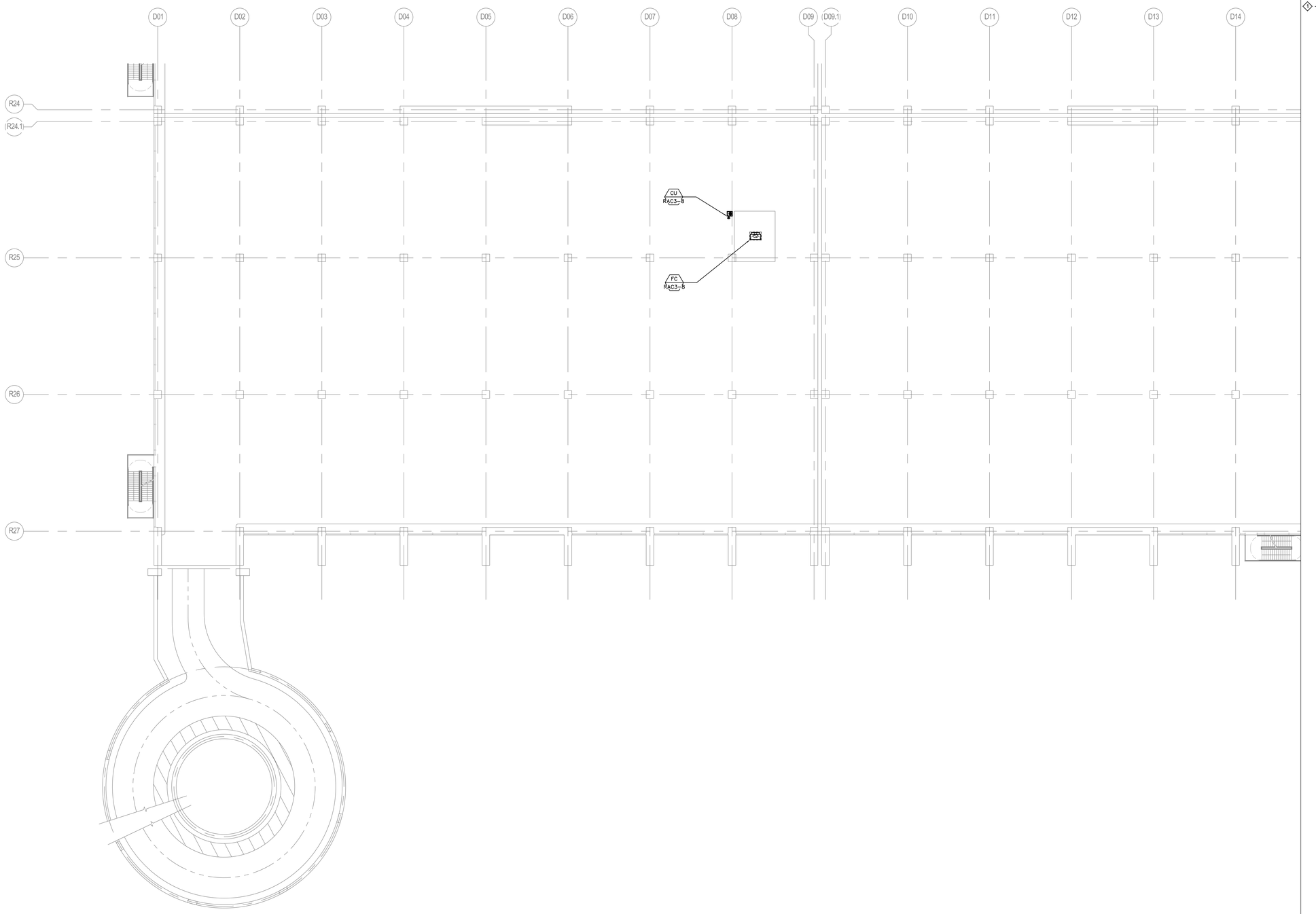
SHEET NO.

4-M-134

SHEET OF

P:\2015\2015-067-00\MPE-Vol-04_READY_RETURN\DA4881-4-M-134_L3D.dwg, Plotted: Jun 29, 2016 - 2:42pm

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 MECHANICAL FLOOR PLAN - ZONE 5

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND KEY PLANS FOR SITE LOCATION.
2. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. LINED DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS TO INCREASE DUCT SIZE AS NEEDED TO PROVIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
4. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
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KEY NOTES

1 --

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles World Airports

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APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY:

ASST. CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 3 MECHANICAL FLOOR PLAN

SHEET NO.

4-M-135

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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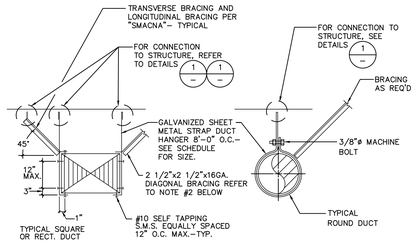
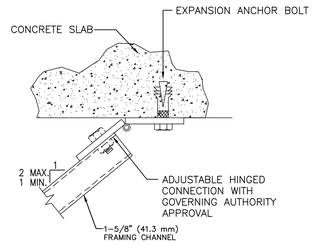


RECTANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PERIMETER/IN.	PAIR AT 8 FT. SPACING	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	STRAP AT 12 FT. SPACING	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1"X 20 GA.	320	UP TO 24"	1"X 22 GA.	260
P/2 =96	1"X 18 GA.	420	25" TO 36"	1"X 20 GA.	320
P/2 =120	1"X 16 GA.	700	37" TO 50"	(2)1"X 20 GA.	320

NOTES:

1. EXCEPT FROM TABLES 6–2–A AND 6–2–B OF APPENDIX A, STANDARD 6–2 OF THE 2013 CALIFORNIA MECHANICAL CODE
2. PROVIDE TRANSVERSE BRACING AT 40 FT. AND LONGITUDINAL BRACING AT 80 FT. (1998 SMACNA SEISMIC RESTRAINT MANUAL, 2ND EDITION)

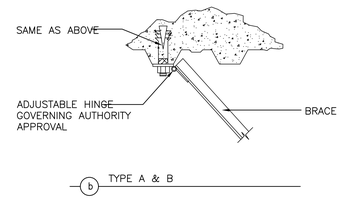


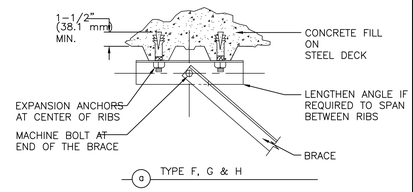
TYPE A, B & C

ADJUSTABLE CONN. TO CONCRETE

NOTES:

THIS IS FIGURE 8–2 OF SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS, (SECOND EDITION 1998) AND ADDENDUM NO.1 (SEPTEMBER 2000), BY SMACNA. ALL REFERENCES ARE TO THESE PUBLICATIONS





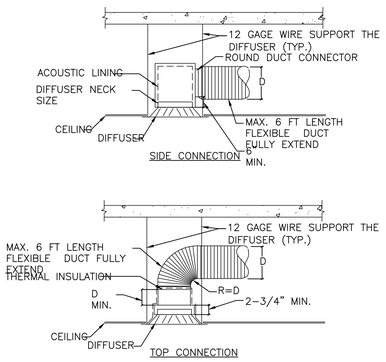
CONN. CONCRETE FILL ON STEEL DECK

NOTES:

1. THIS IS FIGURE 8–6 OF SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS,
2. SECOND EDITION (1998) AND ADDENDUM NO.1 (SEPTEMBER 2000), BY SMACNA. ALL REFERENCES ARE TO THESE PUBLICATIONS.

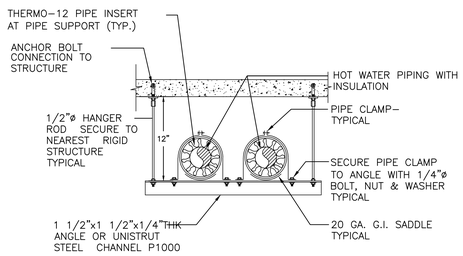
1 DUCT SUPPORT AND CONNECTION TO STRUCTURE DETAILS

SCALE: NOT TO SCALE



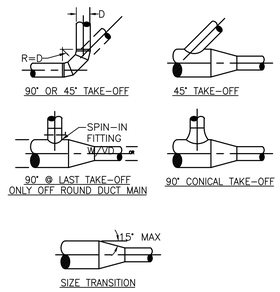
5 CD/CR MOUNTING DETAIL

SCALE: NOT TO SCALE



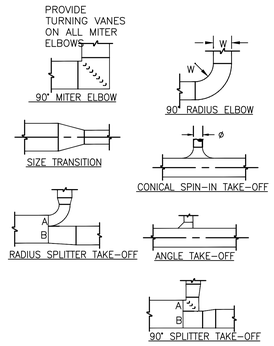
4 TRAPEZE PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE



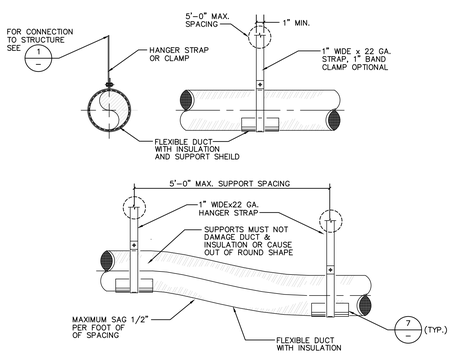
3 ROUND DUCTWORK TRANSITIONS AND CONN. DETAILS

SCALE: NOT TO SCALE



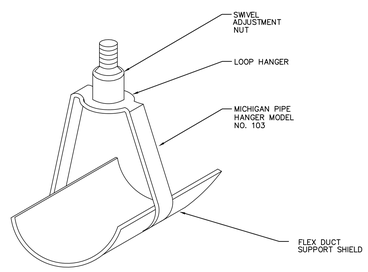
2 RECTANGULAR DUCTWORK TRANSITIONS AND CONN. DETAILS

SCALE: NOT TO SCALE



8 FLEXIBLE DUCT SUPPORT DETAIL

SCALE: NOT TO SCALE



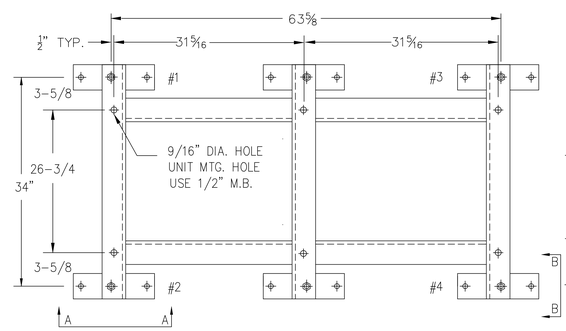
7 FLEX DUCT SUPPORT DETAIL

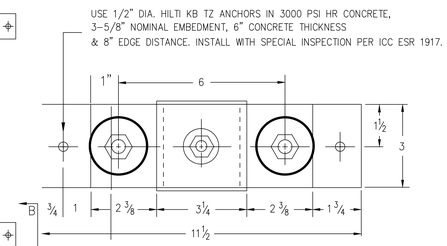
SCALE: NOT TO SCALE

MARK	MAKE	TYPE	SIZE	STEEL SIZE
HP–1	MITSUBISHI	PURY	P144	L3 X 3 X 1/4

MTS	SPRING O.D.	DEFL
1–4	2"	1"

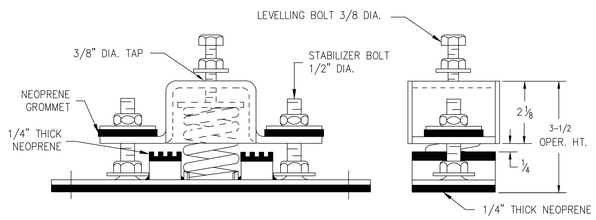
ISOLATORS ARE O.S.H.P.D. PRE–APPROVED No. OPA–0098



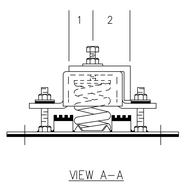


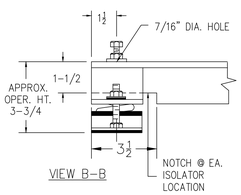
NOTES:

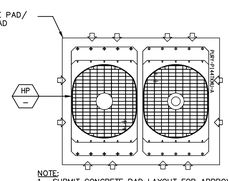
1. APPROX. STEEL WEIGHT INCLUDING ISOLATORS.: 130 LBS.
2. ISOLATORS ARE OSHPD PRE–APPROVED #OPA–0098.
3. M.W. SAUSSE & CO. INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE EQUIPMENT WHEN ANCHORED AS SHOWN.
4. NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT.



MAX. ALLOW. LOADS: HORIZ. 1100 lbs. VERT. (UP) 1400 lbs.



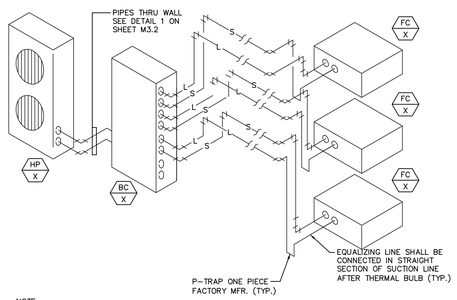




NOTE:
1. SUBMIT CONCRETE PAD LAYOUT FOR APPROVAL.

6 HEAT PUMP/VRF CHANNEL FRAME AND SPRING ISOLATOR DETAIL

SCALE: NOT TO SCALE



NOTE:
ADD 4 OZ. OIL PER 10' OF PIPING OVER 50' MAXIMUM PIPE RUN. INSULATE PIPING PER SPECIFICATIONS.

9 TYPICAL VRF PIPING DIAGRAM

SCALE: NOT TO SCALE

10 NOT USED

SCALE: NOT TO SCALE

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PBS ENGINEERS
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Voice: 626.650.0350
Fax: 626.650.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

MARK	DATE	DESCRIPTION
REVISIONS:		

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: VP
DRAWN BY: VP
CHECKED BY: NP

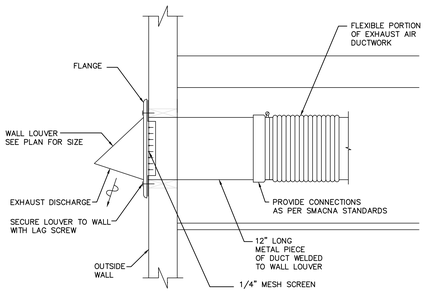
SHEET TITLE:

DETAILS

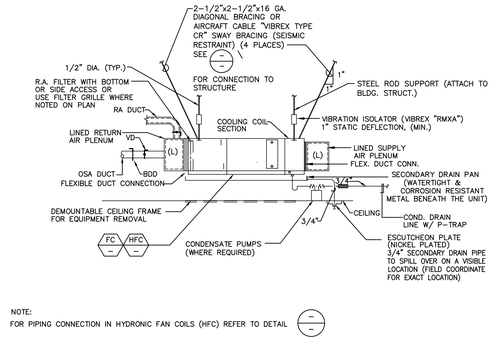
SHEET NO.
4-M-501

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

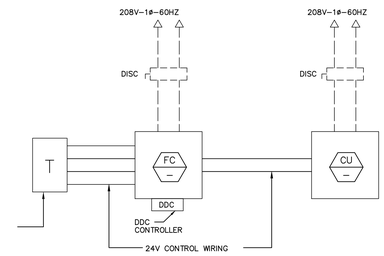


10 EXHAUST AIR DUCT THRU EXTERIOR WALL W/HOOD
SCALE: NOT TO SCALE



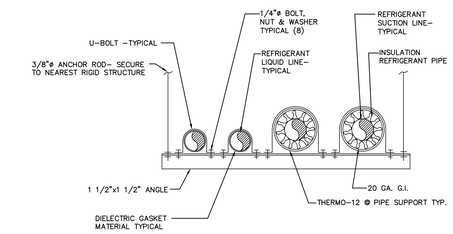
NOTE:
FOR PIPING CONNECTION IN HYDRONIC FAN COILS (HFC) REFER TO DETAIL

7 FAN COIL INSTALLATION DETAIL
SCALE: NOT TO SCALE



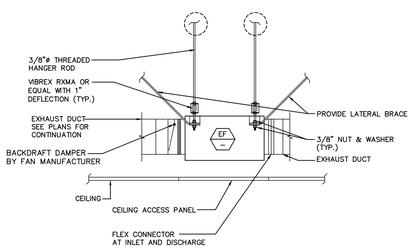
NOTES:
1. SEE 1 FOR WIRING LEGEND.
2. SEE CONTROLS DRAWINGS FOR FURTHER CONTROLS DIAGRAMS.

4 SPLIT DX FAN COIL SYSTEM WIRING DIAGRAM
SCALE: NOT TO SCALE

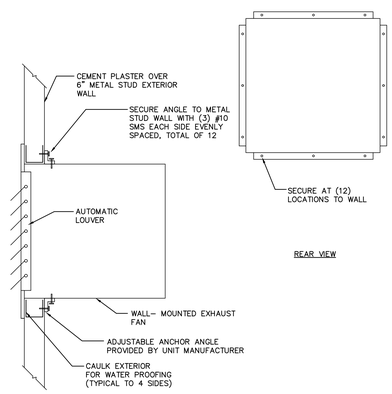


NOTE:
TYPICAL FOR CHILLED AND HOT WATER PIPING SUPPORT.

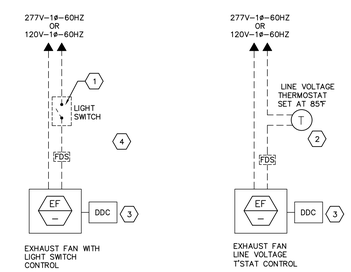
1 REFRIGERANT PIPING MOUNTING DETAIL
SCALE: NOT TO SCALE



11 INLINE EXHAUST FAN MOUNTING DETAIL
SCALE: NOT TO SCALE

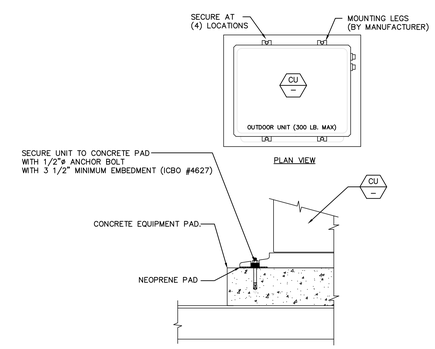


8 WALL THRU EXHAUST FAN MOUNTING DETAIL
SCALE: NOT TO SCALE



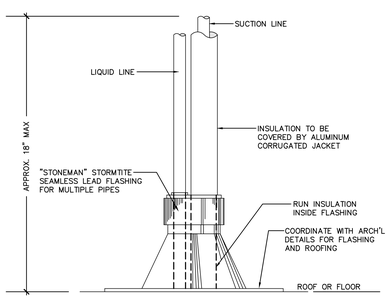
DETAIL NOTES:
1. INTERLOCK EXHAUST FAN TO WALL MOUNTED LIGHT SWITCH. REFER TO "EXHAUST FAN SCHEDULE" FOR DETAILS.
2. INTERLOCK EXHAUST FAN TO WALL MOUNTED THERMOSTAT, OR TEMPERATURE SENSOR.
3. CONNECT EXHAUST FANS TO DDC SYSTEM. SEE CONTROLS DRAWINGS FOR MORE INFORMATION.
4. SEE 1 FOR WIRING LEGEND AND NOTES.

5 EXHAUST FAN WIRING DIAGRAM
SCALE: NOT TO SCALE



NOTE: SUBMIT SHOP DRAWING FOR APPROVAL

2 CONDENSING UNIT MOUNTING DETAIL
SCALE: NOT TO SCALE



12 REFRIGERANT PIPING THRU ROOF OR FROM PENETRATION
SCALE: NOT TO SCALE

ALL LINE VOLTAGE CONDUIT, WIRING, AND EQUIPMENT SHOWN DASHED SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ALL LOW VOLTAGE WIRING SHOWN SOLID SHALL BE FURNISHED AND INSTALLED BY THE LOW VOLTAGE CONTROLS CONTRACTOR. VERIFY THE EXACT REQUIREMENT WITH THE EQUIPMENT MANUFACTURER. CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

DISCONNECT SWITCHES AND MAGNETIC STARTERS WITH H-O-A, 120V CONTROL TRANSFORMER, AND AUXILIARY CONTACTS INCLUDING RELAYS SHALL BE FURNISHED & INSTALLED BY THE ELECT. DIVISION.

DD — DUCT SMOKE DETECTORS SHALL BE FURNISHED & WIRED BY THE ELECTRICAL DIVISION AND INSTALLED BY THE MECHANICAL DIVISION.

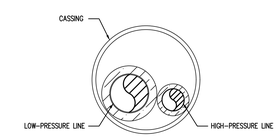
MECHANICAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY MECHANICAL DIVISION.

CB OR FDS — CIRCUIT BREAKER OR FUSED DISCONNECT SWITCH BY ELECTRICAL.

T — THERMOSTAT OR SPACE TEMPERATURE SENSOR BY CONTROLS CONTRACTOR.

NOTES:
1. ALL LOW VOLTAGE CONDUIT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. ALL LOW VOLTAGE WIRING (24 VAC.) SHALL COMPLY WITH CLASS 2 WIRING CODE. THE MINIMUM LOW VOLTAGE WIRING CONDUCTOR SIZE SHALL BE 16 AWG COPPER. ALL CONDUCTOR QUANTITIES SHALL BE COORDINATED WITH THE EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. COORDINATION OF ALL LOW VOLTAGE EQUIPMENT WIRING SHALL BE THE RESPONSIBILITY OF THE LOW VOLTAGE CONTROLS CONTRACTOR.

9 WIRING NOTES
SCALE: NOT TO SCALE



NOTES:
- REFRIGERANT LINES MUST BE INSULATED SEPARATELY
- A MINIMUM OF 1/2" THICK INSULATION IS RECOMMENDED
- IF POSSIBLE, INSTALL CASING AS ONE CONTINUOUS PIECE
- IF THE CASING INCLUDES JOINTS, CONTACT THE MANUFACTURER OR SUPPLIER FOR INSTRUCTIONS ON HOW TO SEAL THE JOINTS TO MAKE THEM WATER TIGHT.

6 TYPICAL CROSS SECTION OF PIPING
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

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Fax: 626.650.0352
Proj. No. 2015-067-00

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
DETAILS

SHEET NO.
4-M-502
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\MPE-\04-M_READY_RETURN\DA4881-4-M-502.dwg, Plotted Jun 29, 2016 - 2:42pm

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED ASCE 7–05 SECTIONS 6.5, 13.3, 13.4 & 13.6.

THE ATTACHMENT OF THE FOLLOWNG ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS.

EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.

TEMPORARY OR MOVABLE EQUIPMENT.

EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.

EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL AND THE FIELD ENGINEER.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7–05 SECTION 13.3 AS DEFINED IN ASCE 7–05 SECTION 13.6.8, 13.6.7. AND 13.4.5.5., ITEM 6. RESPECTIVELY.

THE SEISMIC BRACING AND ANCHORAGE OF PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", PUBLISHED BY RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", PUBLISHED BY SMACNA AND PPIC, OR ANY SEISMIC BRACING AND ANCHORAGE SYSTEM WITH CURRENT OSHPD OPA #. (ISAT, MASON, B–LINE, ETC...)

COPIES OF THE SMACNA OR OPA MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

APPLICABLE CODES

CODE ANALYSIS

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

PARTIAL LIST OF APPLICABLE CODES

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

2013 CALIFORNIA ADMINISTRATIVE CODE – CCR, TITLE 24, PART 1 (2010 CHAPTER 10 APPLIES THRU 06–30–14)

2013 CALIFORNIA BUILDING CODE (CBC) – CCR, TITLE 24, PART 2 – WITH L.A. 2014 AMENDMENTS, BASED ON 2012 IBC

2013 CALIFORNIA ELECTRICAL CODE (CEC) – CCR, TITLE 24, PART 3 – WITH L.A. 2014 AMENDMENTS, BASED ON 2011 NEC

2013 CALIFORNIA MECHANICAL CODE (CMC) – CCR, TITLE 24, PART 4 – WITH L.A. 2014 AMENDMENTS, BASED ON 2012 UMC

2013 CALIFORNIA PLUMBING CODE (CPC) – CCR, TITLE 24, PART 5 – WITH L.A. 2014 AMENDMENTS, BASED ON 2012 UPC

2013 CALIFORNIA ENERGY CODE – CCR, TITLE 24, PART 6 (2013 VERSION APPLIES AFTER 07–01–14)

2013 CALIFORNIA FIRE CODE (CFC) – CCR, TITLE 24, PART 9 – BASED ON 2012 IFCm

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) – CCR, TITLE 24, PART 11 – WITH L.A. 2014 AMENDMENTS

2013 CALIFORNIA REFERENCED STANDARDS CODE – CCR, TITLE 24, PART 12

2014 CALIFORNIA PUBLIC SAFETY – CCR, TITLE 19, DIVISION 1 – STATE FIRE MARSHAL

PARTIAL LIST OF STANDARDS, APPLICABLE AS NEEDED

2013 NFPA 13 AUTOMATIC SPRINKLER SYSTEMS

2012 NFPA 101LIFE SAFETY CODE

2013 NFPA 72 NATIONAL FIRE ALARM CODE (WITH CALIFORNIA AMENDMENTS AS APPLICABLE)

GENERAL NOTES

1. OFFSET PIPES AS REQUIRED TO CLEAR MECHANICAL DUCTWORK.
2. FURNISH AND INSTALL A SHUT–OFF VALVE, PLUG COCK OR STOP AT EACH PIECE OF EQUIPMENT FURNISHED BY OTHERS REQUIRING DRAIN, WASTE, WATER, GAS, ETC.
3. SEAL ALL PENETRATIONS WATERTIGHT.
4. REFER TO MECHANICAL DRAWNGS FOR THE EXACT LOCATION OF ALL AC UNITS. IN AN EVENT OF CONFLICT, AC EQUIPMENT GOVERNS THE PLUMBING ROUTE
5. UNLESS OTHERWISE NOTED, ALL CONDENSATE AND GAS DROPS SHALL BE CONCEALED IN WALLS.
6. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. THE CONTRACTOR SHALL LOCATE ALL OFFSETS, BENDS, AND SPECIAL FITTINGS TO SUIT JOB SITE CONDITIONS.
7. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS

   THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
8. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF MECHANICAL EQUIPMENT MATERIAL ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATION TO ENSURE COMPLETE AND OPERABLE SYSTEMS.
9. BEFORE ORDERING ANY PIECE OF EQUIPMENT, THE CONTRACTOR SHALL PROVIDE EQUIPMENT SUBMITTALS, AND SHOP DRAWINGS WITH EQUIPMENT DIMENSIONS, AND SITE CLEARANCE AVAILABLE. WHERE REQUIRED BY SPACE LIMITATIONS HAVE UNITS SHIPPED IN SECTIONS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL PLUMBING FIXTURES AND FIXTURE HEIGHTS.
11. ALL SINKS, LAVATORY AND URINALS TO HAVE WALL CLEAN–OUTS.
12. ALL HANDICAP ACCESSIBLE PLUMBING FIXTURES SHALL MEET ADA REQUIREMENTS.
13. ALL PIPE BRANCH CONNECTIONS SHALL OFF–SET. NO "BULL HEAD" CONNECTIONS WILL BE ALLOWED.
14. INSTALL WATER HAMMER ARRESTORS IN THE HOT AND COLD WATER SUPPLY TO EACH FIXTURE OR IN THE HEADER SUPPLY TO A BATTERY OF FIXTURES SIZED PER PDI STANDARD WH–201.
15. NEW COLD WATER TO BE SUPPLIED TO 5 FT. FROM BUILDING. PROVIDE SHUT OFF VALVE IN YARD BOX.
16. COORDINATE PLANS FOR CONTINUITY OF WORK.
17. RUN UNDERGROUND PIPING IN COORDINATION WITH STRUCTURAL DETAILS.
18. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
19. COORDINATE ALL EXPOSED PIPING WITH ARCHITECT.
20. ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 1115B.
21. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC SECTION 1115B.4 SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 1115B.
22. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTIONS 1115B.4.3 ITEM 1 FOR LAVATORIES, 1115B.4.1 ITEM 5 FOR TOILETS AND 1115.4.2 ITEM 3 FOR URINALS.
23. EACH ACCESSIBLE SINK SHALL BE A MAXIMUM OF 6 1/2" DEEP. SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" ABOVE THE FINISH FLOOR. CBC SECTION 1115B.4.7 ITEM 1.
24. FOR ALL PLUMBING SYSTEM SIZES REFER TO RISER DIAGRAMS.

LEGEND AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION
	C.W.	COLD WATER
	H.W.	HOT WATER
	H.W.R.	HOT WATER RETURN
G	G.	FUEL GAS
MPG	MPG	MEDIUM PRESSURE GAS
CD	C.D.	CONDENSATE DRAIN
FCD	FCD	FURNACE CONDENSATE DRAIN
	V	SANITARY VENT
	W OR SS	WASTE OR SANITARY SEWER
RW	RW	RECLAIM WATER
RWS	RWS	RECLAIM WATER SUPPLY
SD	SD	STORM DRAIN
OD	OD	OVERFLOW DRAIN
	FWS	FUEL WATER SEPARATOR
	S.O.V.	SHUT OFF VALVE
	G.C.	GAS COCK
	H.B.	HOSE–BIBB
		PIPE–UP OR RISER
		PIPE–DOWN OR DROP
		UNION
	COYB	CLEANOUT IN YARD BOX
	POC	POINT OF CONNECTION
	W/	WITH
	I.E.	INVERT ELEVATION OF PIPE BELOW FLOOR
	ADA	AMERICAN DISABILITIES ACT
	CONC.	CONCRETE
	F.C.O.	FLOOR CLEANOUT
	N.T.S.	NOT TO SCALE
	CONT.	CONTINUATION
	FIN.	FINISH
	F.F.E.	FINISH FLOOR ELEVATION
	FLR.	FLOOR
	F.U.	FIXTURE UNIT
	GR.	GRADE
	LOC.	LOCATION
	ABV.	ABOVE
	BEL.	BELOW
	C.I.	CAST IRON
	CLG.	CEILING
	CONN.	CONNECT OR CONNECTION
	WHA	WATER HAMMER ARRESTOR
	TYP.	TYPICAL
		PLUMBING EQUIPMENT IDENTIFICATION
		PLUMBING FIXTURE IDENTIFICATION
	VTC	VENT THROUGH CANOPY
	VTR	VENT THROUGH ROOF
CO	W.C.O.	WALL CLEANOUT
	Y.B.	YARD BOX
	TDL	TOTAL DEVELOPED LENGTH
	RD	ROOF DRAIN
	OD	OVERFLOW DRAIN
	S.O.V.	SHUT OFF VALVE ON RISER

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	ROUGH–IN CONNECTIONS WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
AD 2	AREA DRAIN J.R. SMITH #2233Y	4"	–	–	–	–	CAST IRON BODY WITH FLASHING COLLAR AND CAST IRON TRACTOR GRATE. *PROVIDE 1/2" TRAP PRIMER CONNECTION
FD 1	FLOOR DRAIN J.R. SMITH #2005Y	2"	2"	1–1/2"	*	–	SQUARE TOP CAST IRON BODY WITH FLASHING COLLAR AND NICKEL BRONZE ROUND ADJUSTABLE STRAINER. *PROVIDE 1/2" TRAP PRIMER CONNECTION
AD 1	AREA DRAIN ZURN Z526	4"	–	–	–	–	12" DIAMETER TOP DRAIN, DURA–COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN, ADJUSTABLE EXTENSION FRAME AND HEAVY DUTY SLOTTED GRATE. *PROVIDE 1/2" TRAP PRIMER CONNECTION WHERE APPLICABLE.
HB 1	HOSE BIBB ACORN 8104	–	–	–	3/4"	–	RECESSED HOSE VALVE BOX WITH LOCKABLE DOOR AND FRAME, WITH VACUUM BREAKER.
HB 2	HOSE BIBB ACORN 8121–CP	–	–	–	3/4"	–	ROUGH BRASS BODY, WALL FLANGE TYPE WITH VACUUM BREAKER, CARTRIDGE OPERATED HOSE VALVE WITH LOCKSHIELD BONNET AND REMOVABLE KEY HANDLE, INTERIOR VALVES SHALL BE POLISHED CHROME FINISH, EXTERIOR VALVES SHALL BE ROUGH CHROME PLATED.
HD 1	HUB DRAIN (FABRICATED)	4"	4"	2"	1/2"	–	4" CAST IRON PIPE WITH 4" TRAP, 2" VENT AND TRAP PRIMER CONNECTION. (SEE DETAIL 5/RC–P–501)
FS 1	FLOOR SINK J.R. SMITH #3100Y	2"	2"	2"	–	–	DUCO CAST IRON RECEPTOR WITH SOLID WATER DAM AND CAST IRON DOME BOTTOM STRAINER, UNDERDECK CLAMP SECURED WITH STAINLESS STEEL VANDAL PROOF SCREWS
TD 1	TRENCH DRAIN	–	–	–	–	–	ZURN Z400H DRAIN. TRENCH DRAIN AND GRATING BY ARCHITECT.
F 1	FUNNEL DRAIN	2"	2"	1 1/2"	–	–	J.R SMITH FIG 3821T DUCO CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR AND EXTERIOR
IR 1	INDIRECT RECEPTOR	–	–	–	–	–	J.R SMITH FIG 3970Y DUCO CAST IRON BODY
AGA 1	AIR GAP ADAPTOR	2"	2"	2"	–	–	J.R SMITH FIG 3955S CAST IRON BODY, BEHIND ACCESS PANEL.

PIPE MATERIAL TABLE

SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC HOT AND COLD WATER SYSTEM	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88, TYPE K BELOW GROUND	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16 , 18	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER. ALL EXPOSED WATER PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED.
SOIL, WASTE AND VENT	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL PIPE, TYLER WIDE BODY OR EQUAL	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO–HUB	NSF LISTED
CONDENSATE DRAIN	SEAMLESS COPPER TUBING, TYPE L HARD DRAWN TEMPER, ASTM B88	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16 , 18	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER.
STORM DRAIN	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL PIPE, TYLER WIDE BODY OR EQUAL	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO–HUB COUPLINGS	
NATURAL GAS	STEEL PIPE ASTM A53/A 53M BLACK STEEL SCHEDULE 40 TYPE E OR S GRADE B	MALLEABLE IRON THREADED FITTINGS ASTM B16.3, CLASS 150 STANDARD PATTERN	
RECLAIMED WATER	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88, PURPLE PVC BELOW GROUND	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16, 18 PVC–REQT'S OF ASTM F477 & ASTM D3139	ALL PIPES TO BE CONTINUOUSLY WRAPPED WITH PURPLE COLORED PANTONE #512 MYLAR TAPE READING "CAUTION RECLAIMED WATER DO NOT DRINK

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PROJ.NO: DA4881
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SHEET TITLE:

PLUMBING SCHEDULES

SHEET NO.

4-P-001

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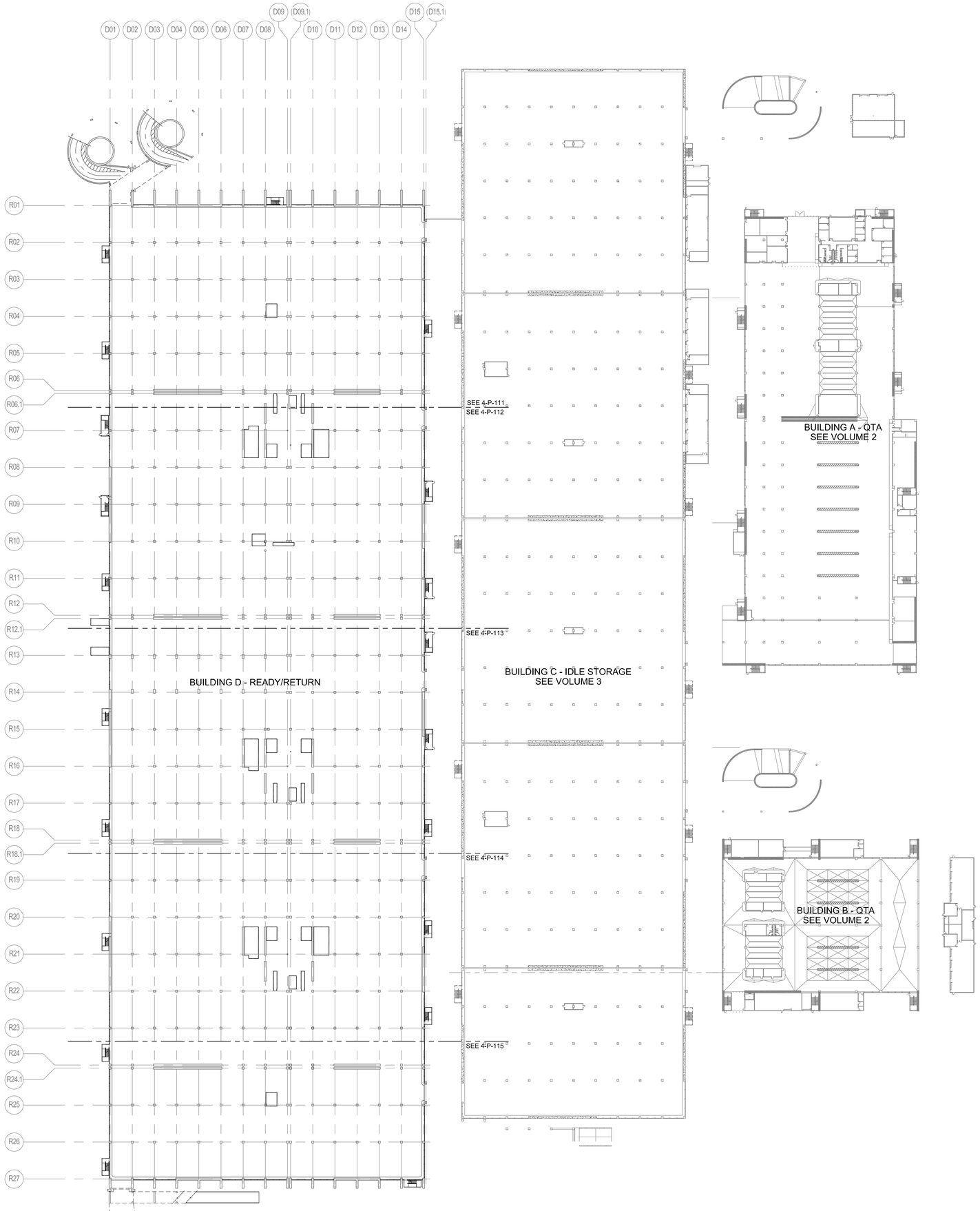
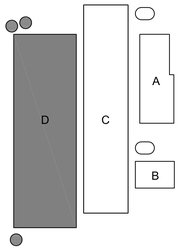


1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL FLOOR PLAN

SCALE: 1" = 60'

KEY NOTES

2



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DATE: 07/01/2016
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SHEET TITLE:

READY/ RETURN
LEVEL 1
OVERALL
FLOOR PLAN

SHEET NO.

4-P-010

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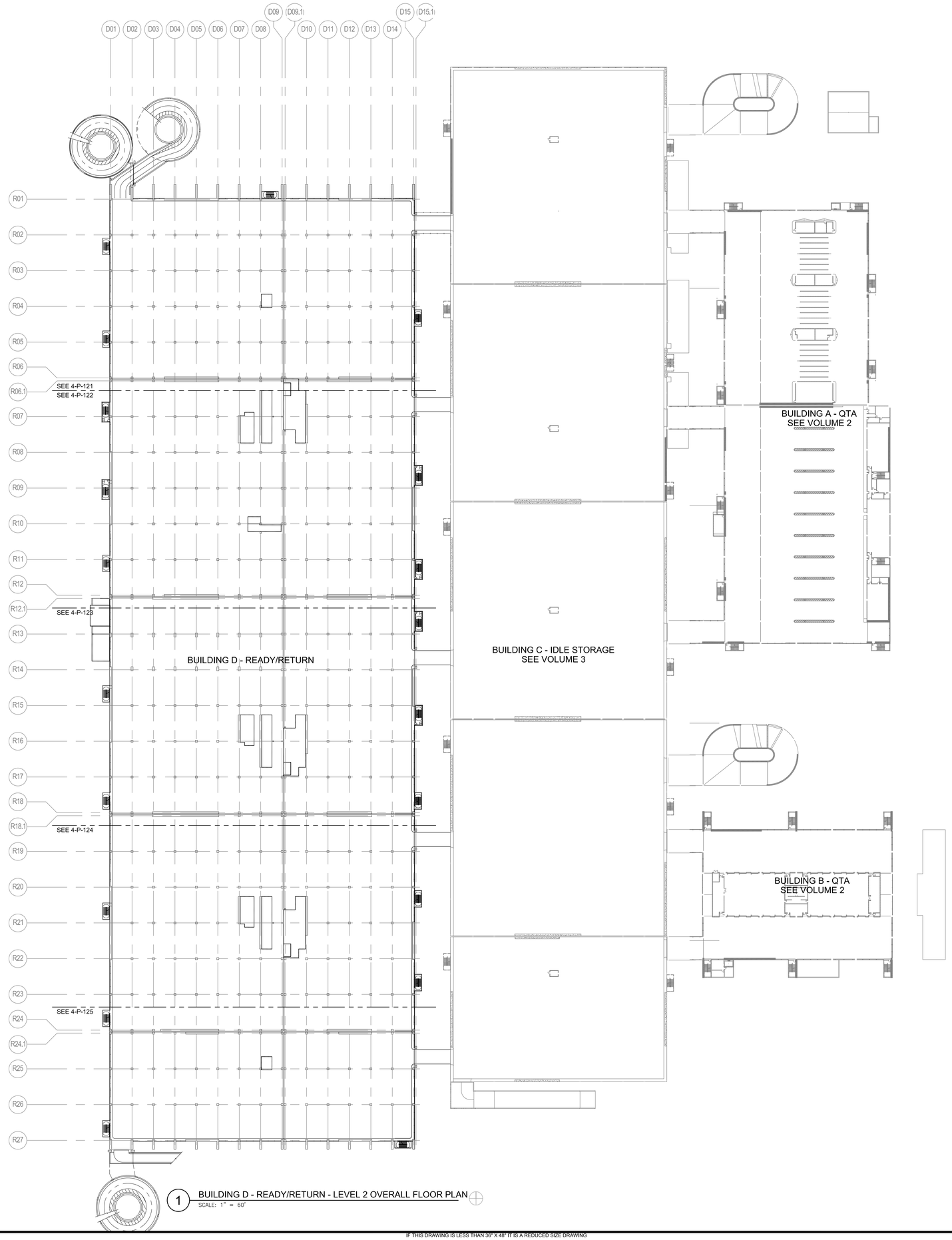

1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL FLOOR PLAN

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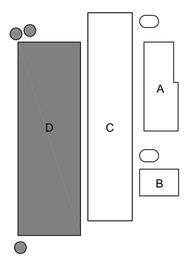

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READY/ RETURN LEVEL 2 OVERALL FLOOR PLAN

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4-P-020

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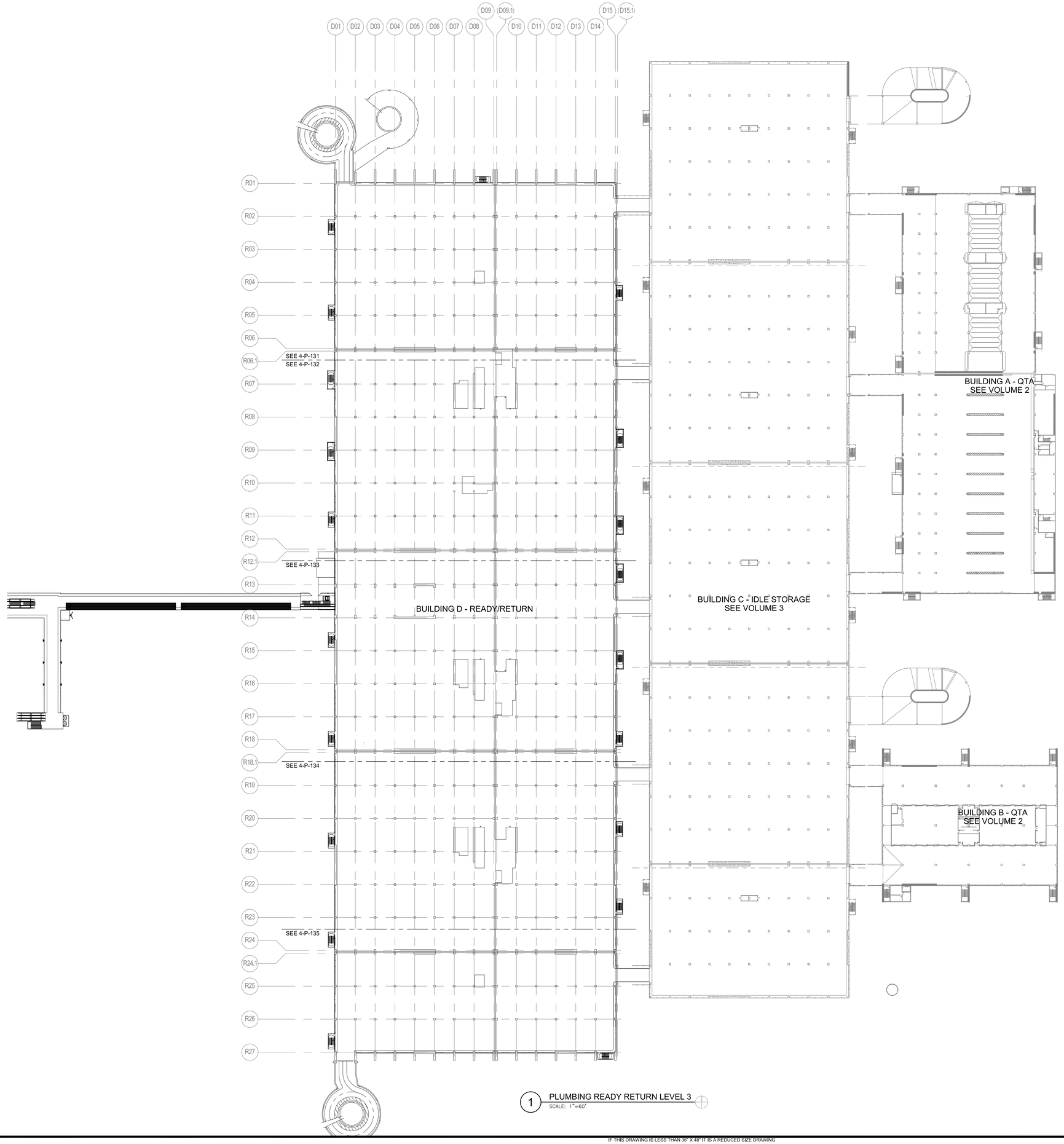
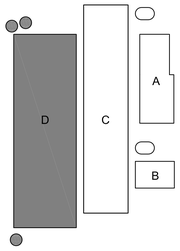


1 PLUMBING READY RETURN LEVEL 3
SCALE: 1"=60'

KEY NOTES



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4-P-030
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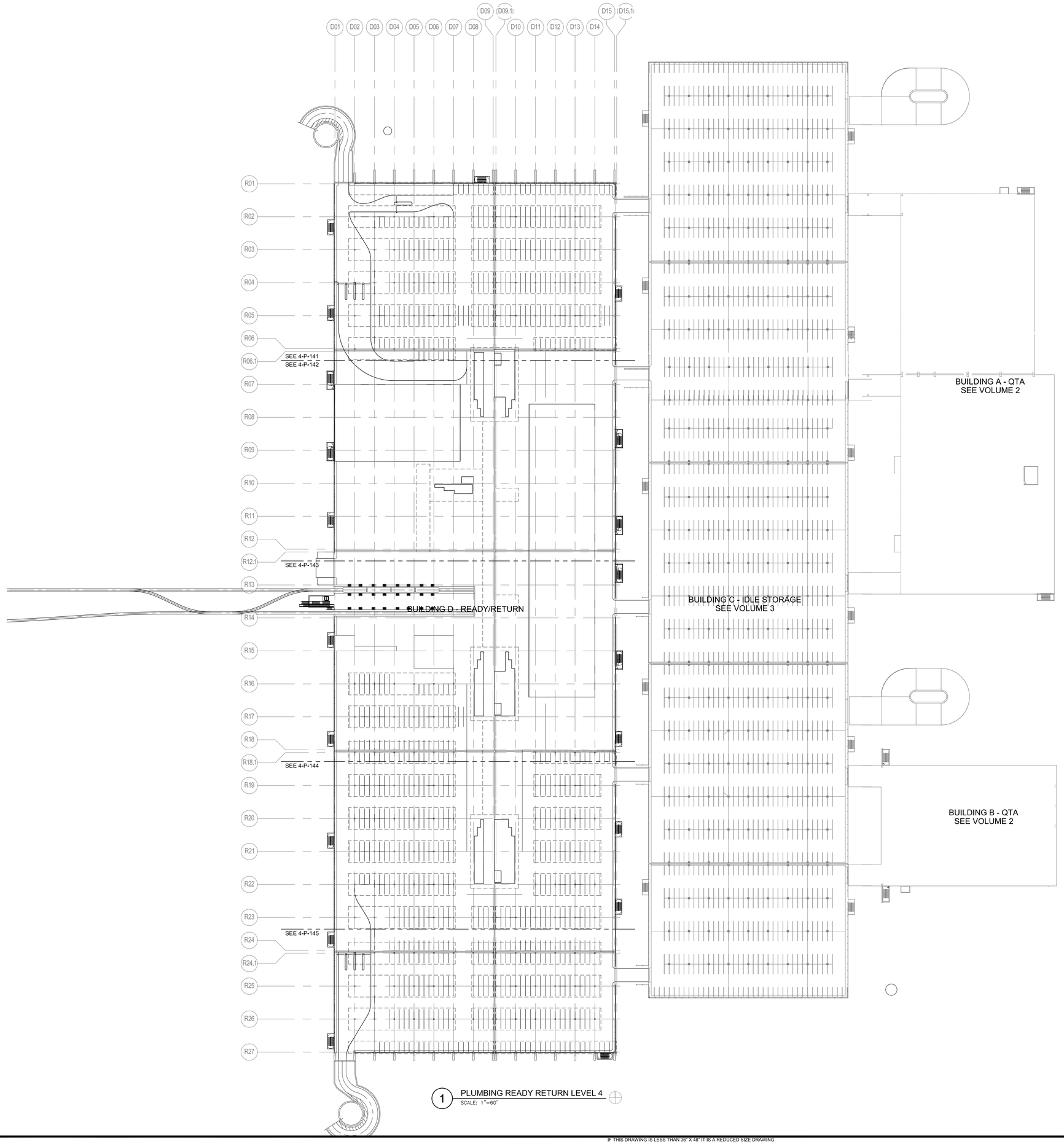
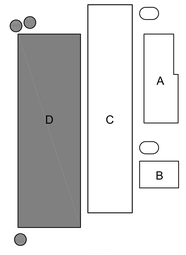


1 PLUMBING READY RETURN LEVEL 4
SCALE: 1"=60'

KEY NOTES

GENERAL NOTES

1. USED 2"/HR RAINFALL RATES, TABLES 11-1 AND 11-2, 2013 CPC.



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READY / RETURN OVERALL PLUMBING FLOOR PLAN

SHEET NO.
4-P-040

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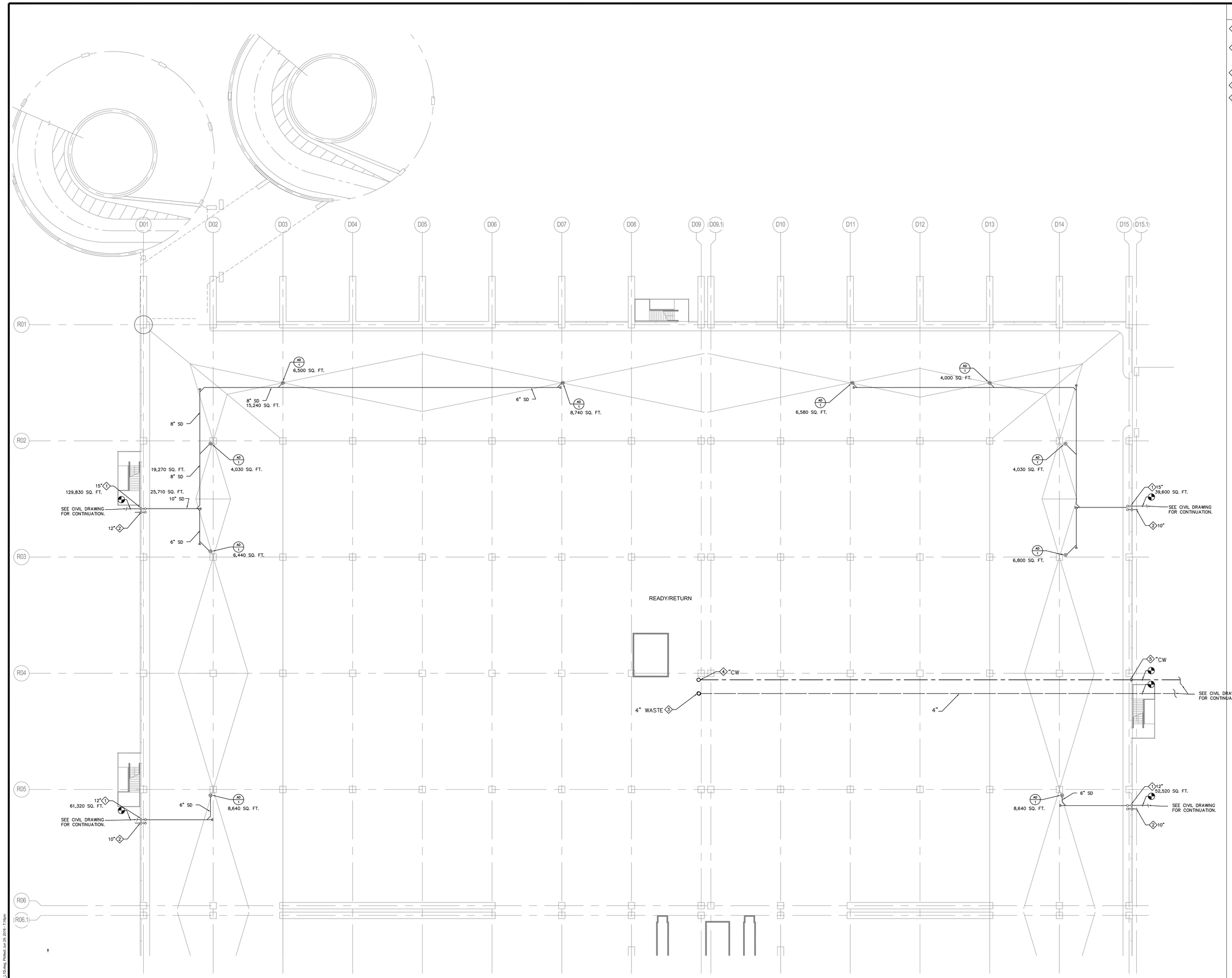

1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEY NOTES

1. STORM DRAIN (SD) DOWN ALONG COLUMN AND OFFSET TO BELOW SLAB WITH CLEAN OUT.
2. EMERGENCY OVERFLOW DRAIN (OD) DOWN ALONG COLUMN OFFSET AND DAYLIGHT 6" ABOVE FINISH GRADE WITH SPLASH BLOCK. USE A J.R. SMITH # 1770 NOZZLE.
3. 4" WASTE RISER DOWN FROM RESTROOMS.
4. COLD WATER UP TO REST ROOMS.
5. COLD WATER DOWN IN FURRED WALL TO BELOW GRADE.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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SHEET TITLE:
READY/ RETURN
LEVEL 1
PLUMBING
FLOOR PLAN

SHEET NO.
4-P-111
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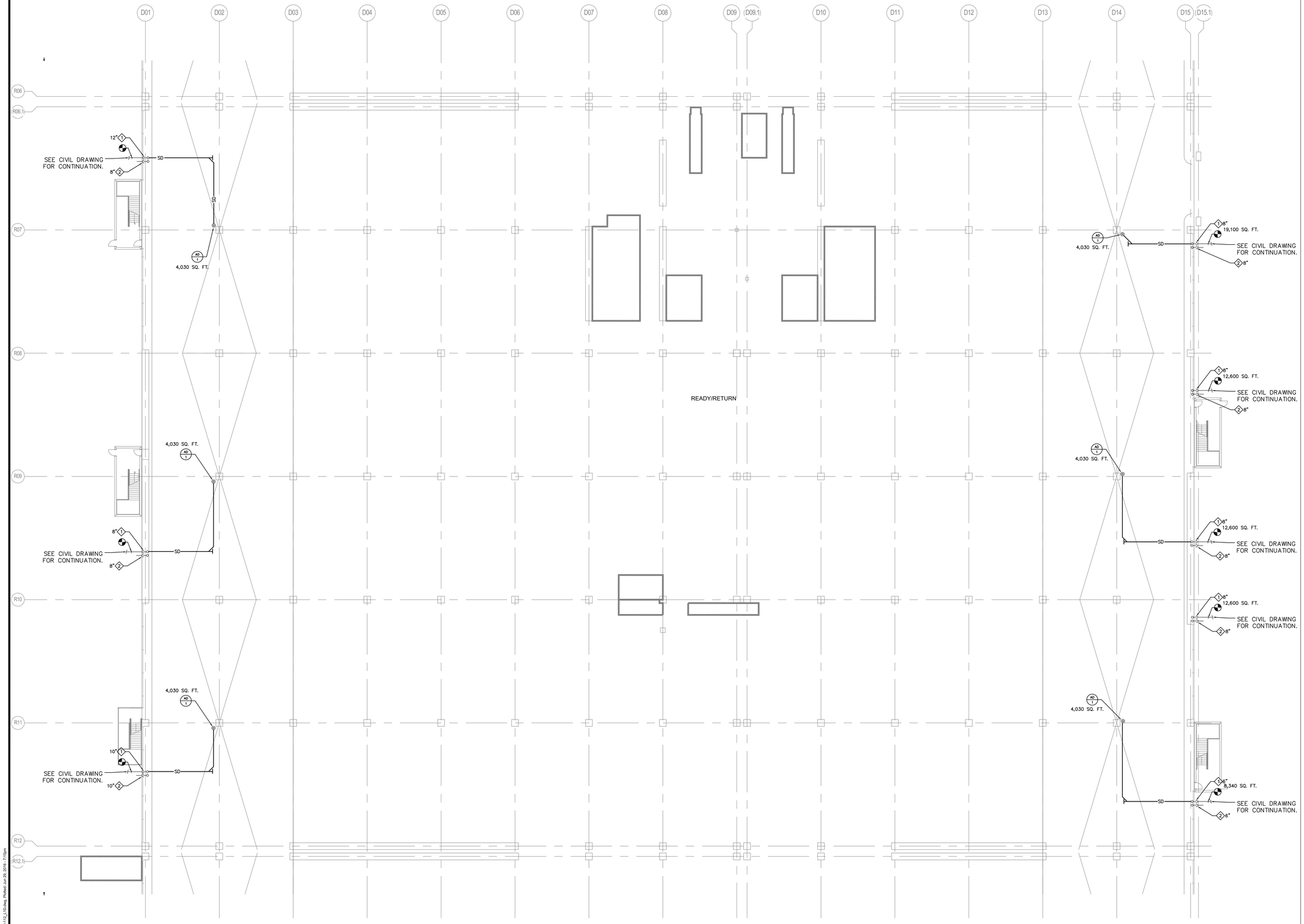
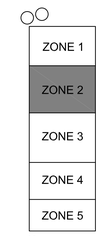


1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 2

SCALE: 1/16" = 1'-0"

KEY NOTES

1. STORM DRAIN (SD) DOWN ALONG COLUMN AND OFFSET TO BELOW SLAB WITH CLEAN OUT.
2. EMERGENCY OVERFLOW DRAIN (OD) DOWN ALONG COLUMN OFFSET AND DAYLIGHT 6" ABOVE FINISH GRADE WITH SPLASH BLOCK. USE A J.R. SMITH # 1770 NOZZLE.



BUILDING D KEYPLAN

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SHEET TITLE:
READY/ RETURN LEVEL 1 PLUMBING FLOOR PLAN

SHEET NO.
4-P-112

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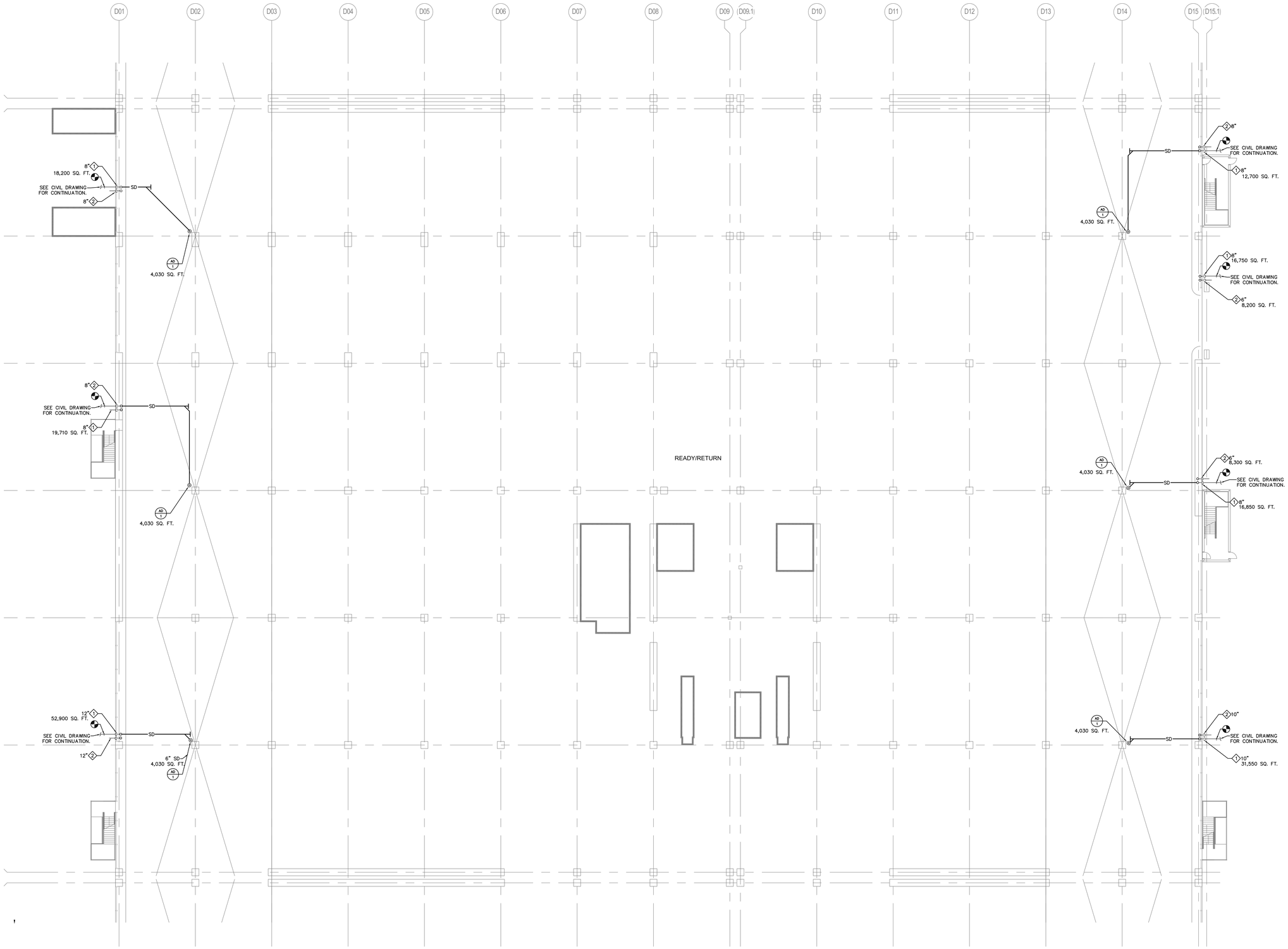

1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 3

SCALE: 1/16" = 1'-0"

KEY NOTES

1. STORM DRAIN (SD) DOWN ALONG COLUMN AND OFFSET TO BELOW SLAB WITH CLEAN OUT.
2. EMERGENCY OVERFLOW DRAIN (OD) DOWN ALONG COLUMN OFFSET AND DAYLIGHT 6" ABOVE FINISH GRADE WITH SPLASH BLOCK. USE A J.R. SMITH # 1770 NOZZLE.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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DATE: 07/01/2016
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DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN
LEVEL 1
PLUMBING
FLOOR PLAN

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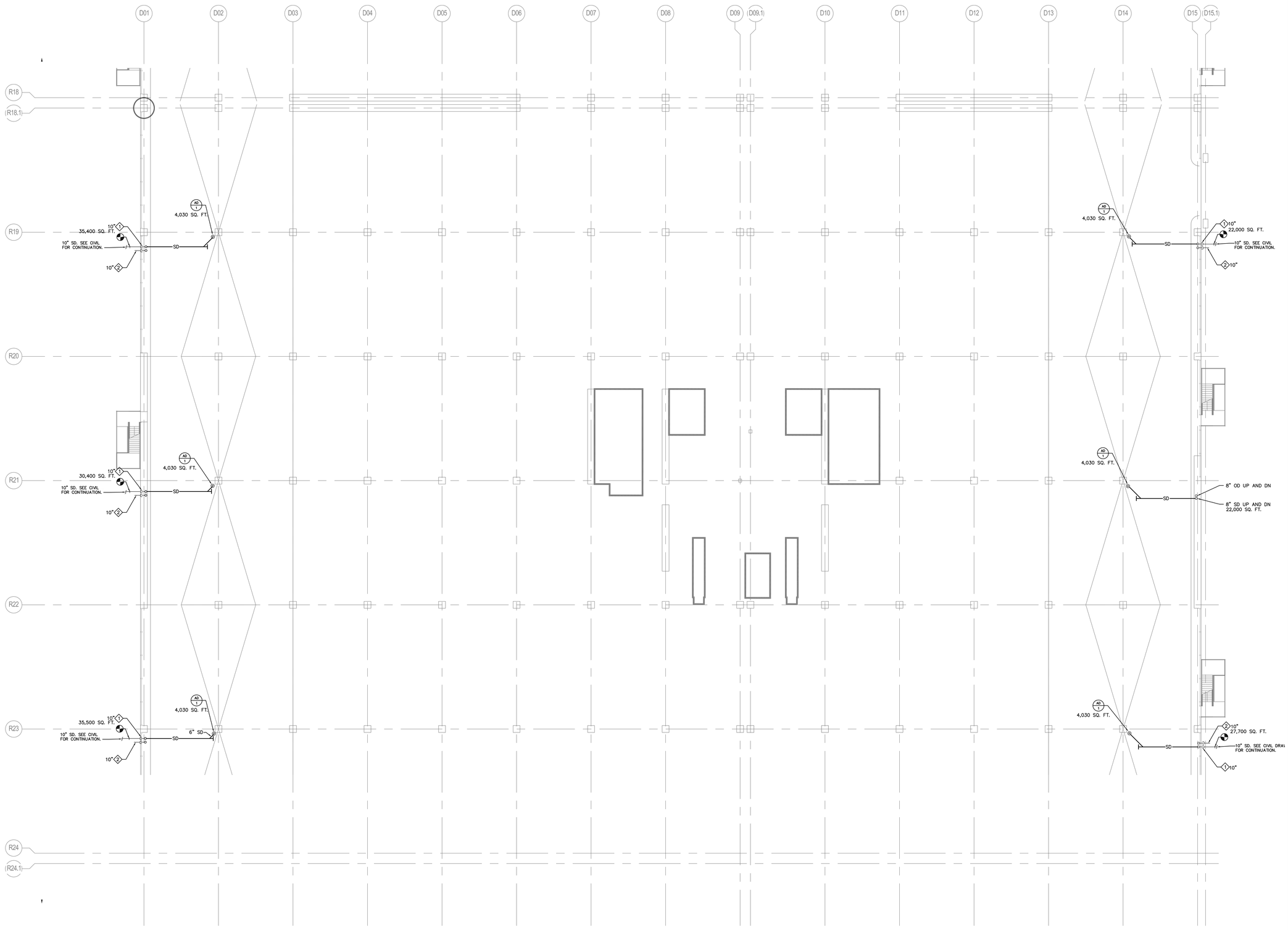
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-047-02\MPE\V8-04_READY_RETURN\DA4881-4-P-113_LTD.dwg, Plotted: Jul 29, 2016 - 7:16pm

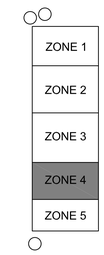


1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 4

SCALE: 1/16" = 1'-0"

KEY NOTES

1. STORM DRAIN (SD) DOWN ALONG COLUMN AND OFFSET TO BELOW SLAB WITH CLEAN OUT.
2. EMERGENCY OVERFLOW DRAIN (OD) DOWN ALONG COLUMN OFFSET AND DAYLIGHT 6" ABOVE FINISH GRADE WITH SPLASH BLOCK. USE A J.R. SMITH # 1770 NOZZLE.



BUILDING D KEYPLAN

TransSystems
801 South Grand
Suite 210
Los Angeles, California 90017
Phone: (562) 594-6974
Fax: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

PBS ENGINEERS
PBS ENGINEERS
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Voice: 626.914.0500
Fax: 626.926.0352
Proj. No.: 2210-0400

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE ANA PMD LAX

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 1 PLUMBING FLOOR PLAN

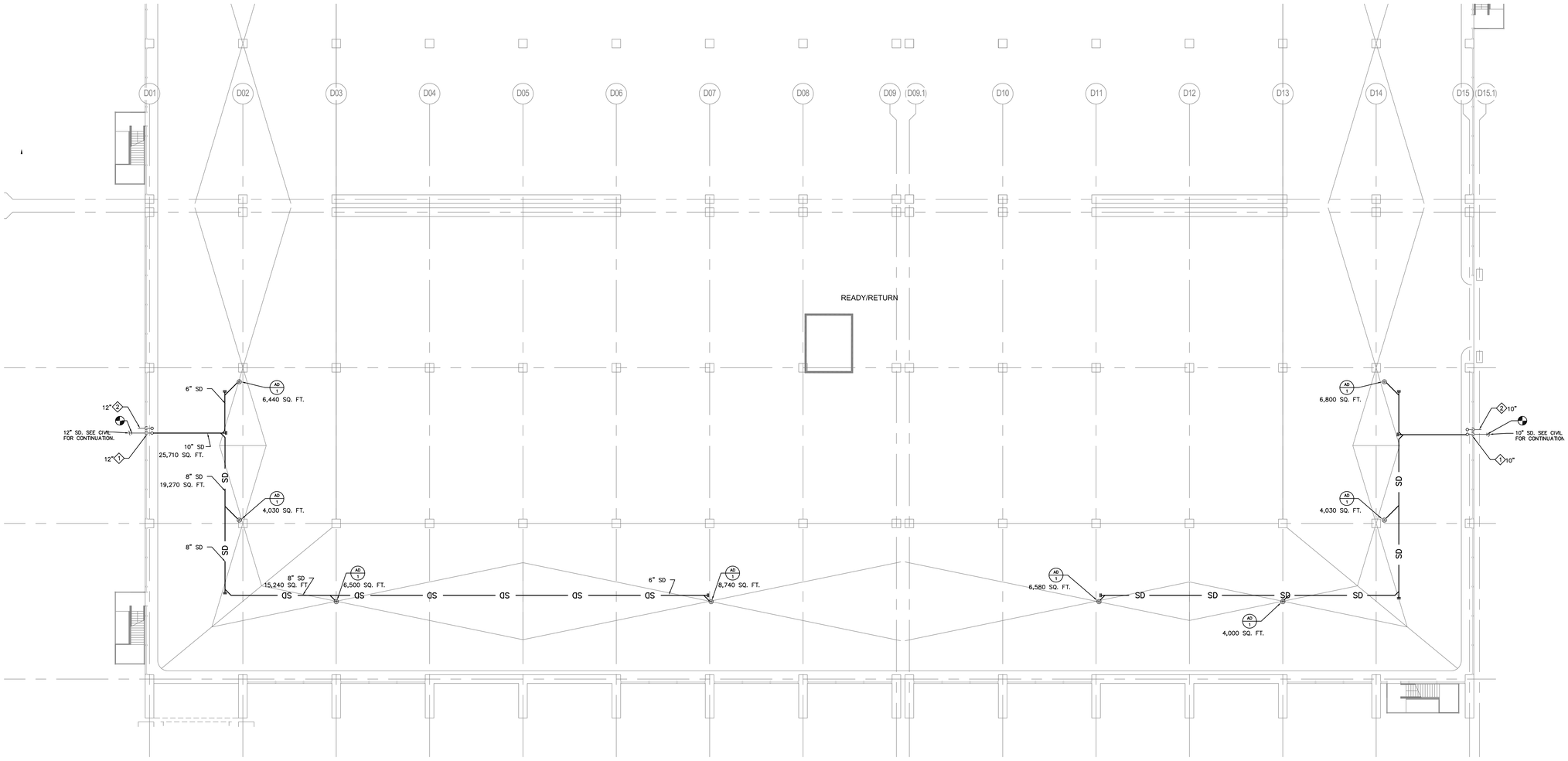
SHEET NO.

4-P-114

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-007-00\MPE-Vol-04_READY_RETURN\DA4881-4-P-114_L-10.dwg Plotted: Jun 29, 2016 - 7:19pm

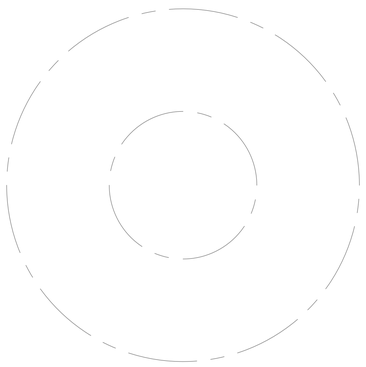


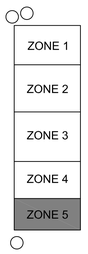
1 BUILDING D - READY/RETURN - LEVEL 1 FLOOR PLAN - ZONE 5

SCALE: 1/16" = 1'-0"

KEY NOTES

1. STORM DRAIN (SD) DOWN ALONG COLUMN AND OFFSET TO BELOW SLAB WITH CLEAN OUT.
2. EMERGENCY OVERFLOW DRAIN (OD) DOWN ALONG COLUMN OFFSET AND DAYLIGHT 6" ABOVE FINISH GRADE WITH SPLASH BLOCK. USE A J.R. SMITH # 1770 NOZZLE.





BUILDING D KEYPLAN

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY:

ASST. CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 1
PLUMBING
FLOOR PLAN

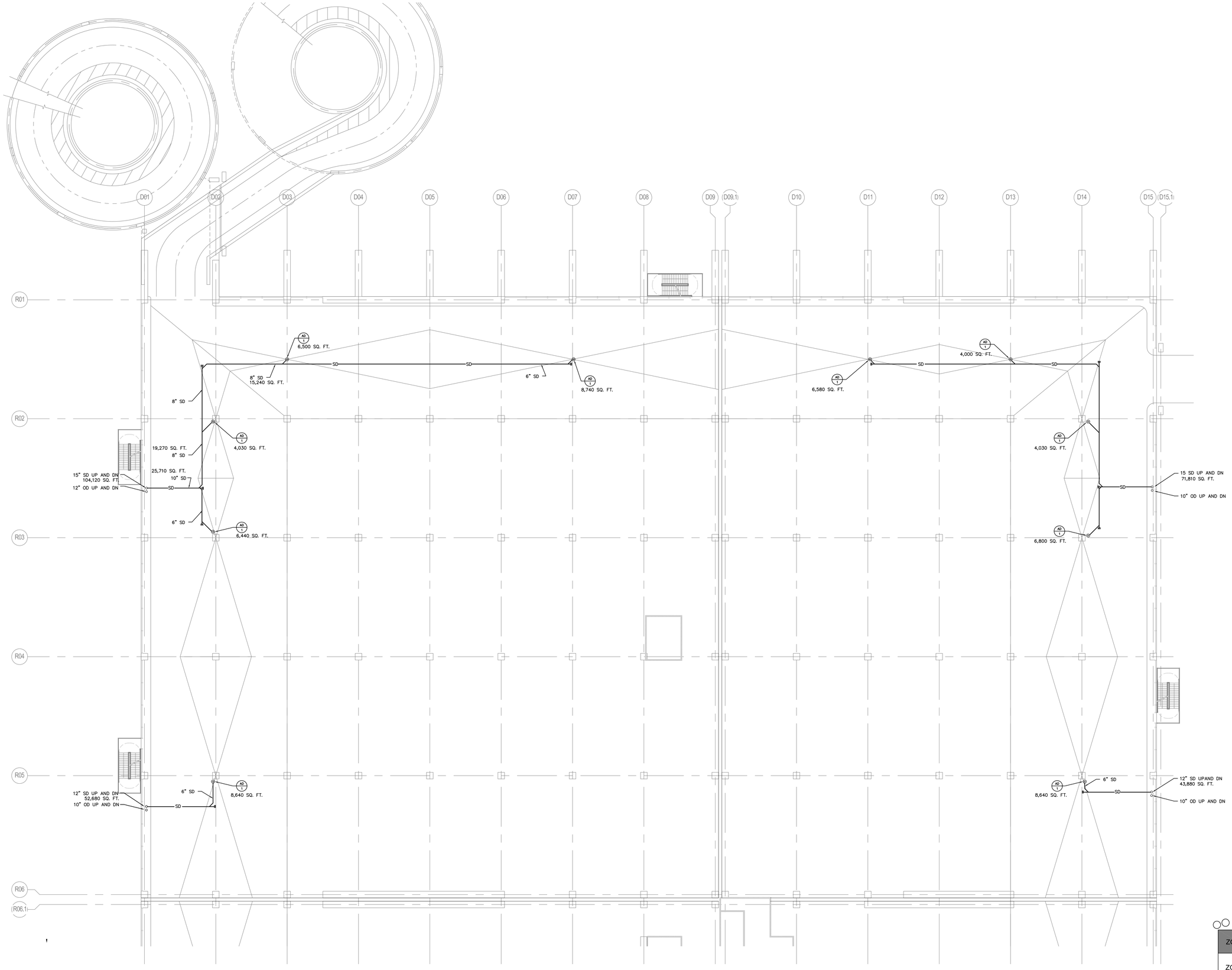
SHEET NO.

4-P-115

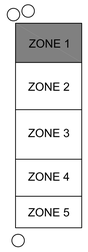
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-02\MPE\V9-04_READY_RETURN\DA4881-4-P-115_L1D.dwg, Plotted: Jun 29, 2016 - 7:15pm



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 1
SCALE: 1/16" = 1'-0"



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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

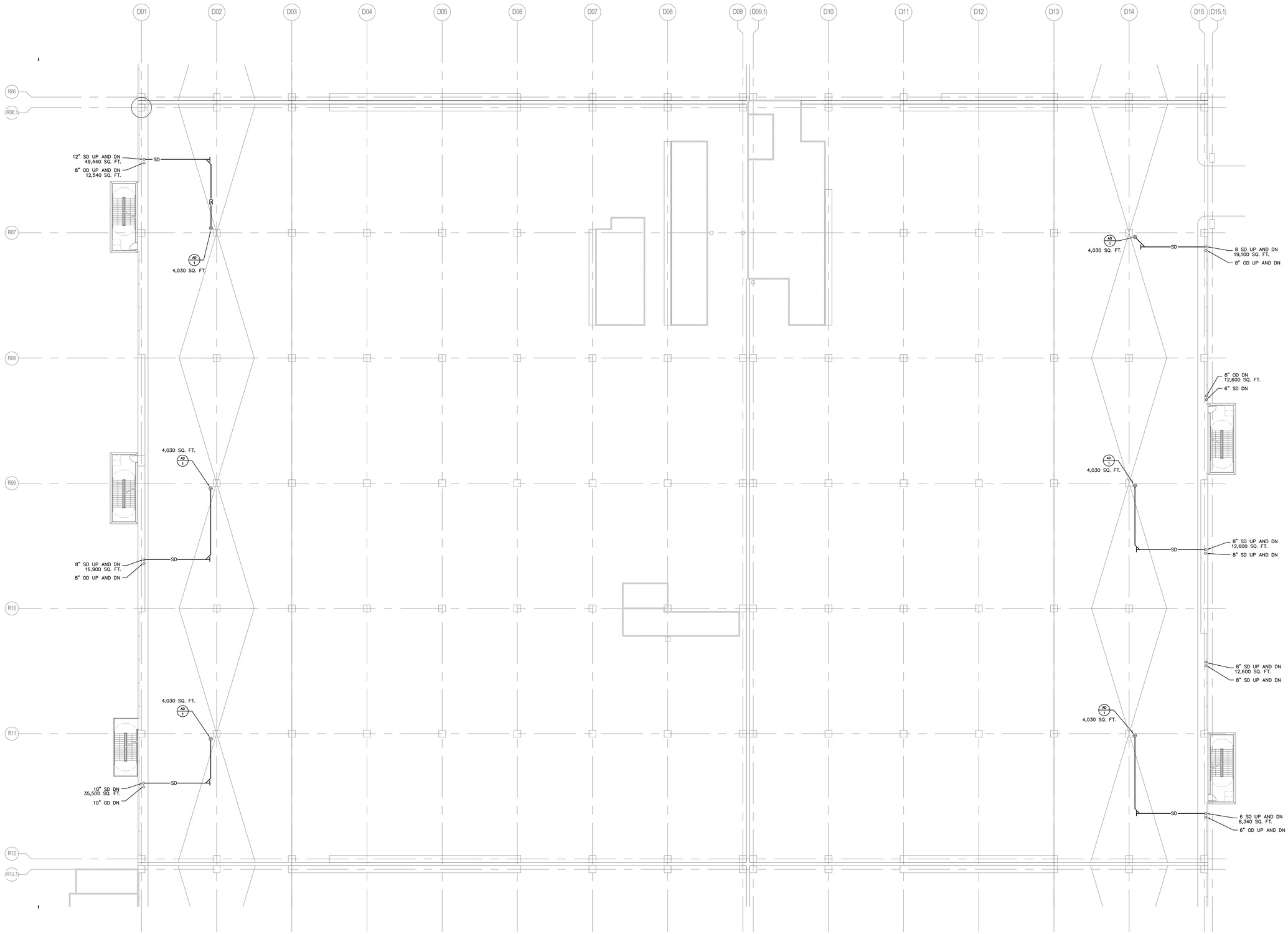
SHEET TITLE:

READY/ RETURN
LEVEL 2
PLUMBING
FLOOR PLAN

SHEET NO.
4-P-121

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 2
SCALE: 1/16" = 1'-0"

KEY NOTES

1 -

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 2
PLUMBING

SHEET NO.
4-P-122

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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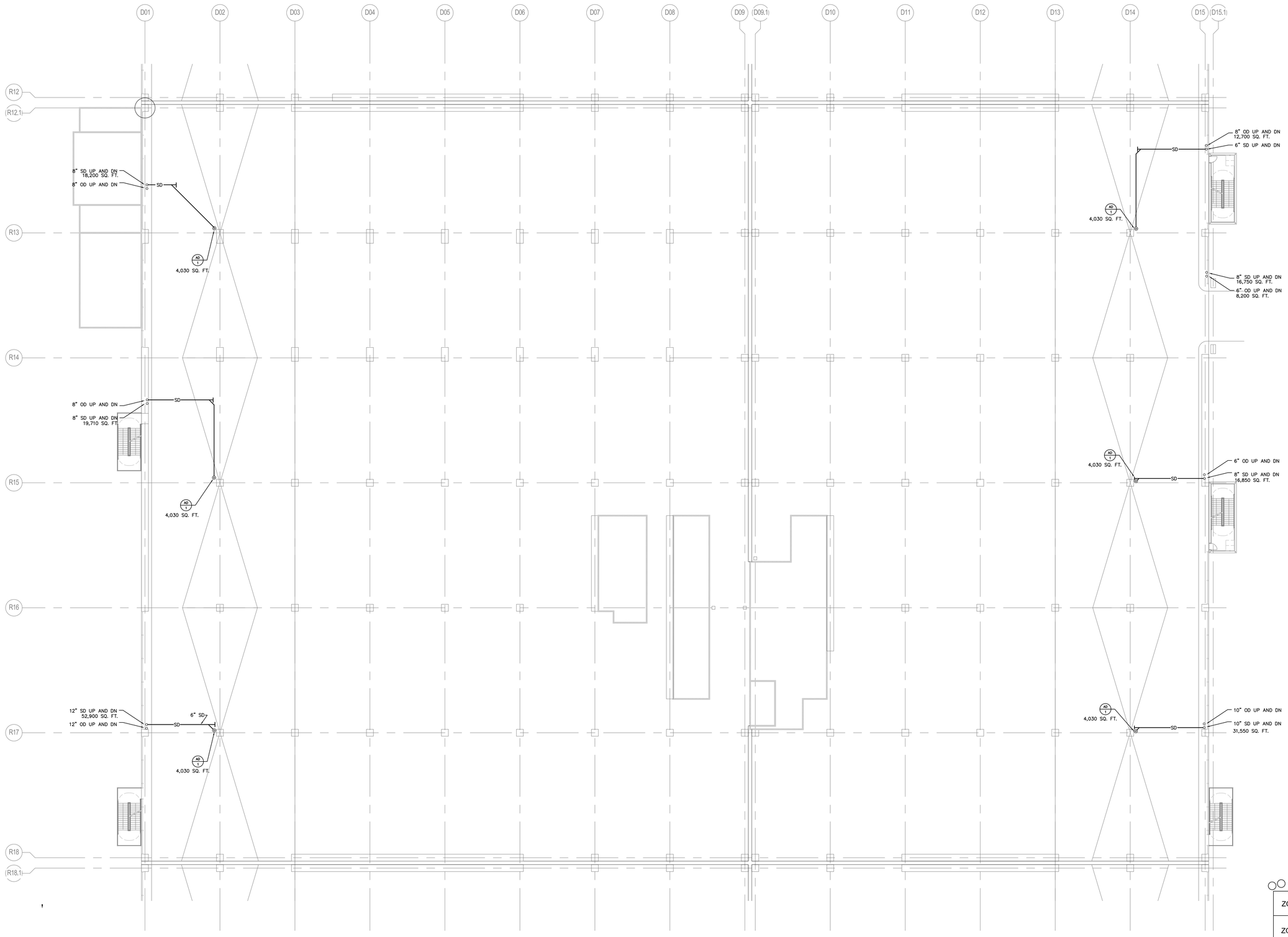
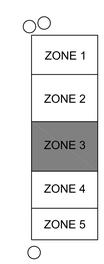


1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 3
SCALE: 1/16" = 1'-0"



BUILDING D KEYPLAN

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Fax: (562) 594-6975

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Proj. No.: 2015-067-00

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

APPROVED BY
CHIEF AIRPORTS ENGINEER

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

ONT ANA
PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

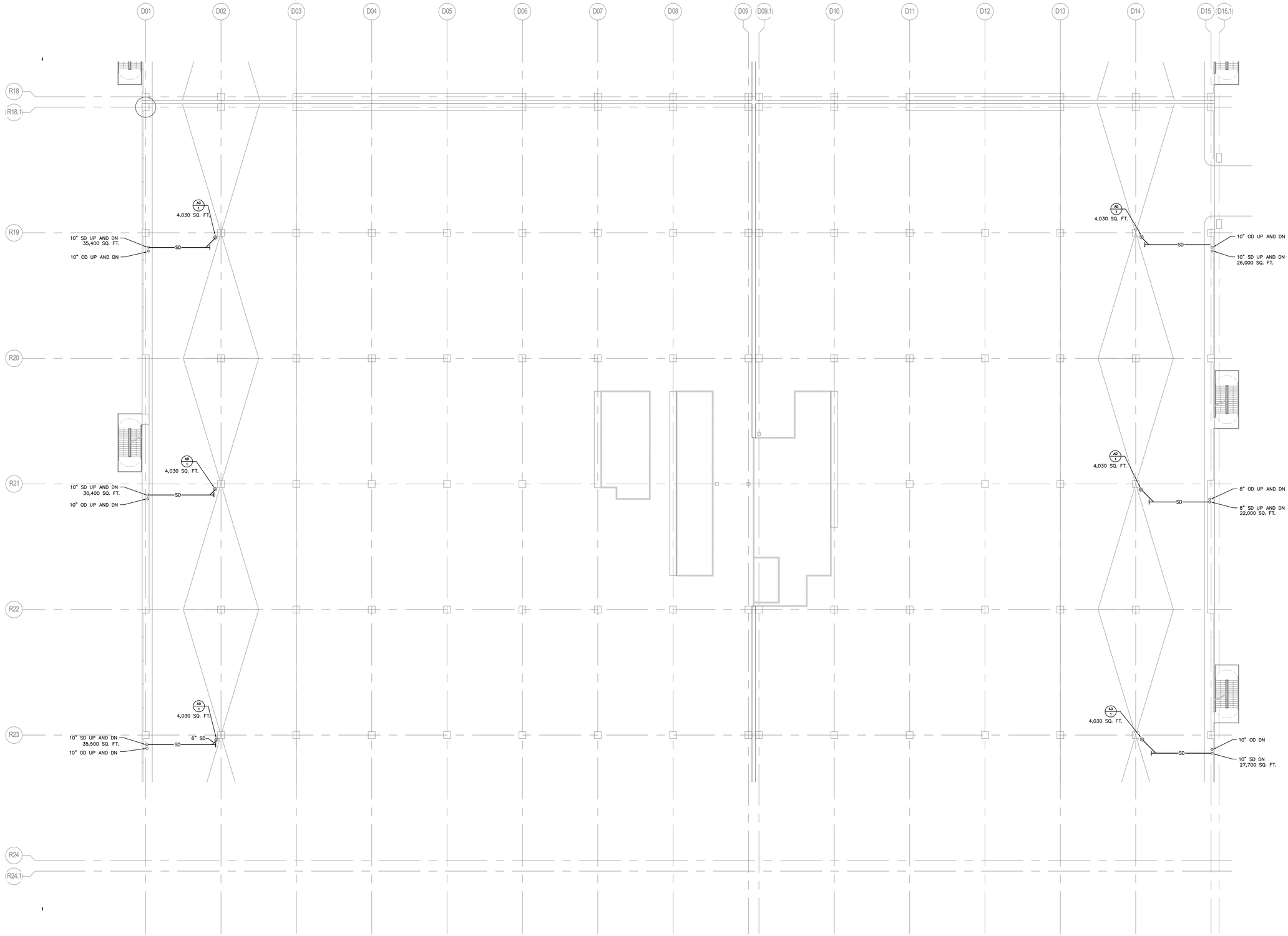
PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN
LEVEL 2
PLUMBING
FLOOR PLAN

SHEET NO.
4-P-123
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\BPS-Vol-IA_READY_RETURN\DA4881-4-P-123_LEO.dwg Plotted: Jun 29, 2016 - 7:19am



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 4

SCALE: 1/16" = 1'-0"

KEY NOTES

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Fax: 626.630.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 2
PLUMBING
FLOOR PLAN

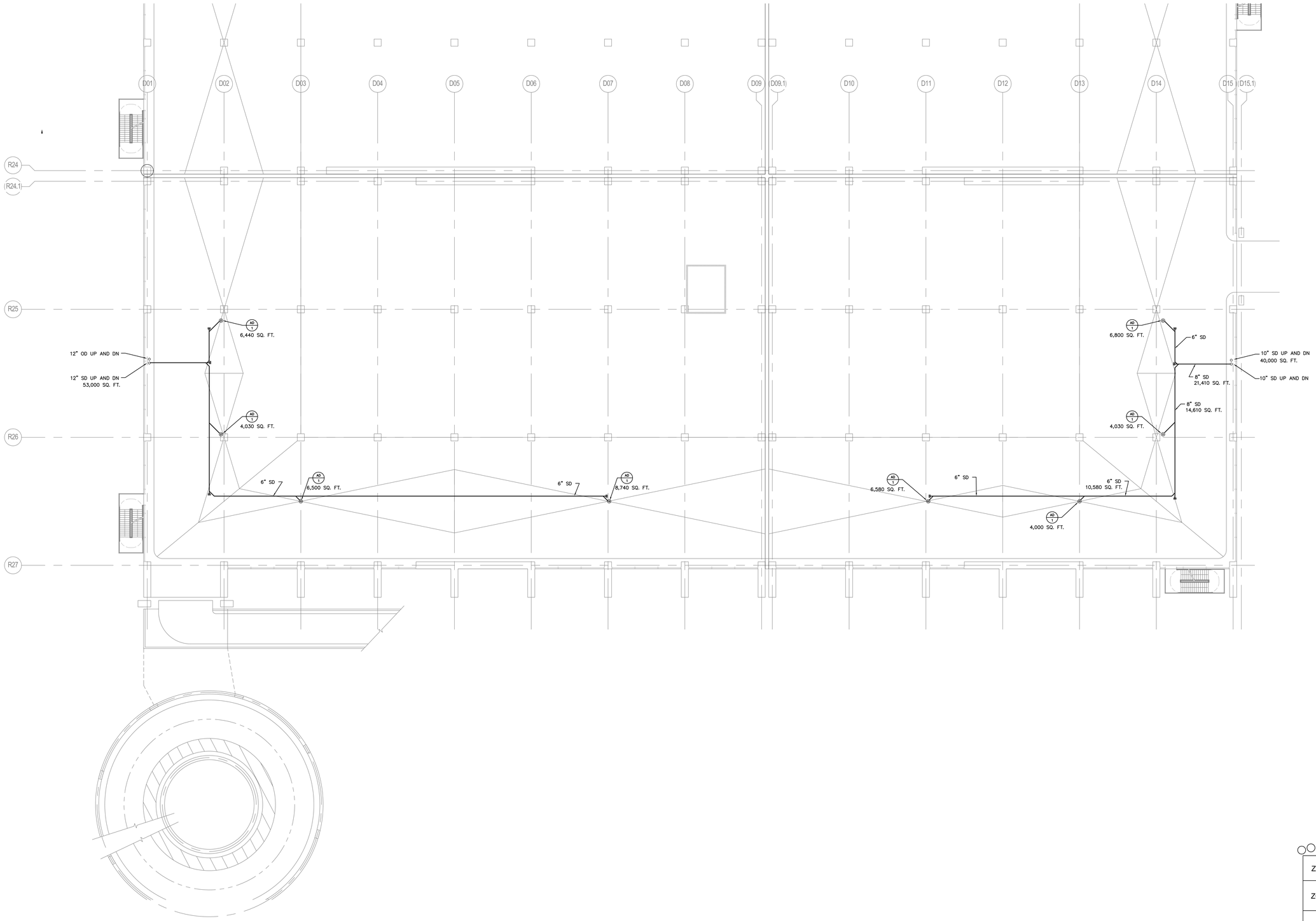
SHEET NO.

4-P-124

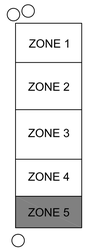
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\MPS-00-04_READY_RETURN\DA4881-4-P-124_L02.dwg, Plotted on Jun 29, 2016 - 7:19pm



1 BUILDING D - READY/RETURN - LEVEL 2 FLOOR PLAN - ZONE 5
SCALE: 1/16" = 1'-0"



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Fax: (562) 594-6975

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CONSULTANTS:

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GLENDORA, CA 91740
Voice: 626.650.0350
Fax: 626.650.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

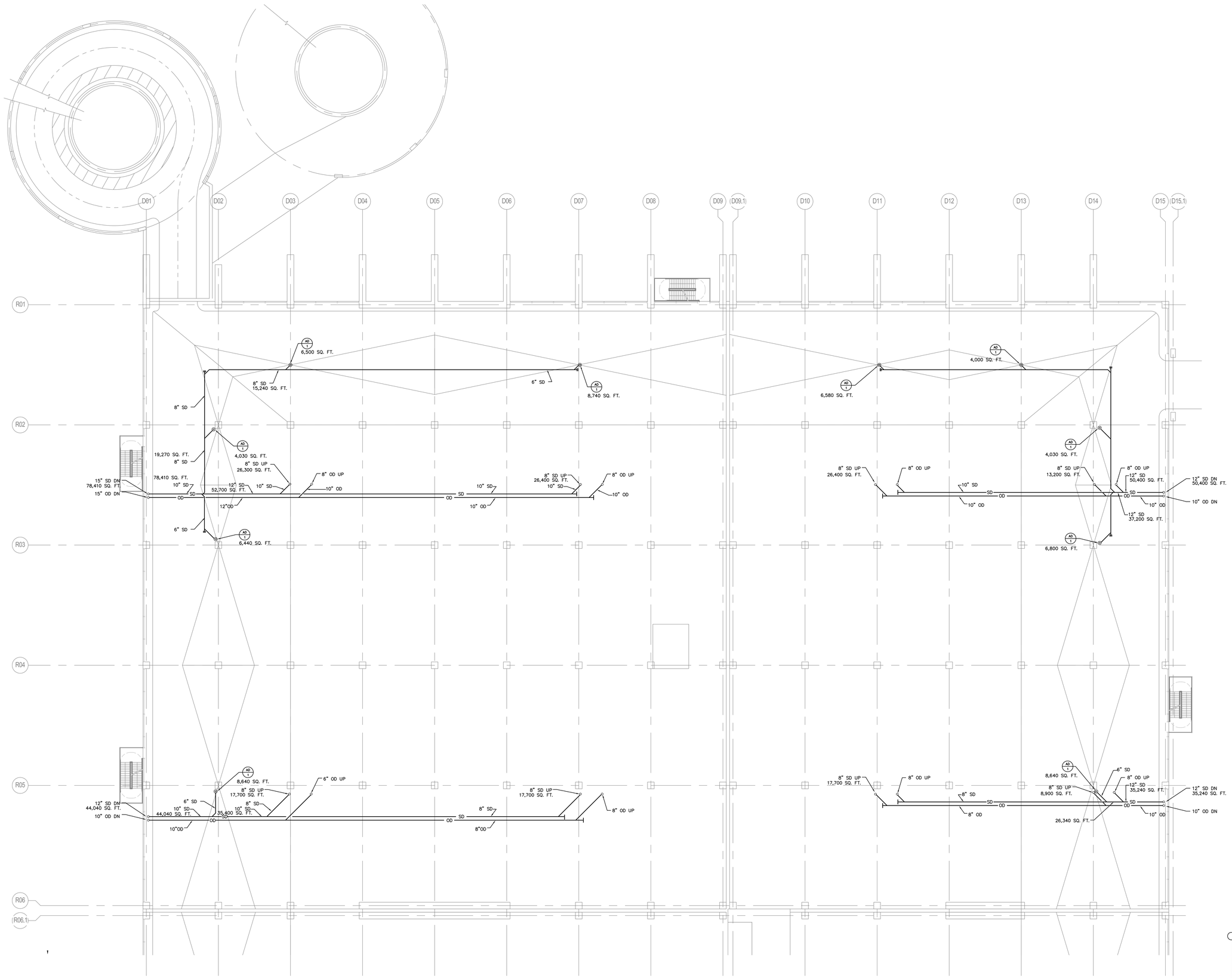
READY/ RETURN
LEVEL 2
PLUMBING
FLOOR PLAN

SHEET NO.

4-P-125

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 1

SCALE: 1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles, California 90017
Phone: (562) 594-6974
Fax: (562) 594-6975

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CONSULTANTS:

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2700 EAST ROUTE 66, SUITE 101
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Voice: 626.914.0000
Fax: 626.926.0352
Proj. No.: 2210-0047-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 3
PLUMBING
FLOOR PLAN

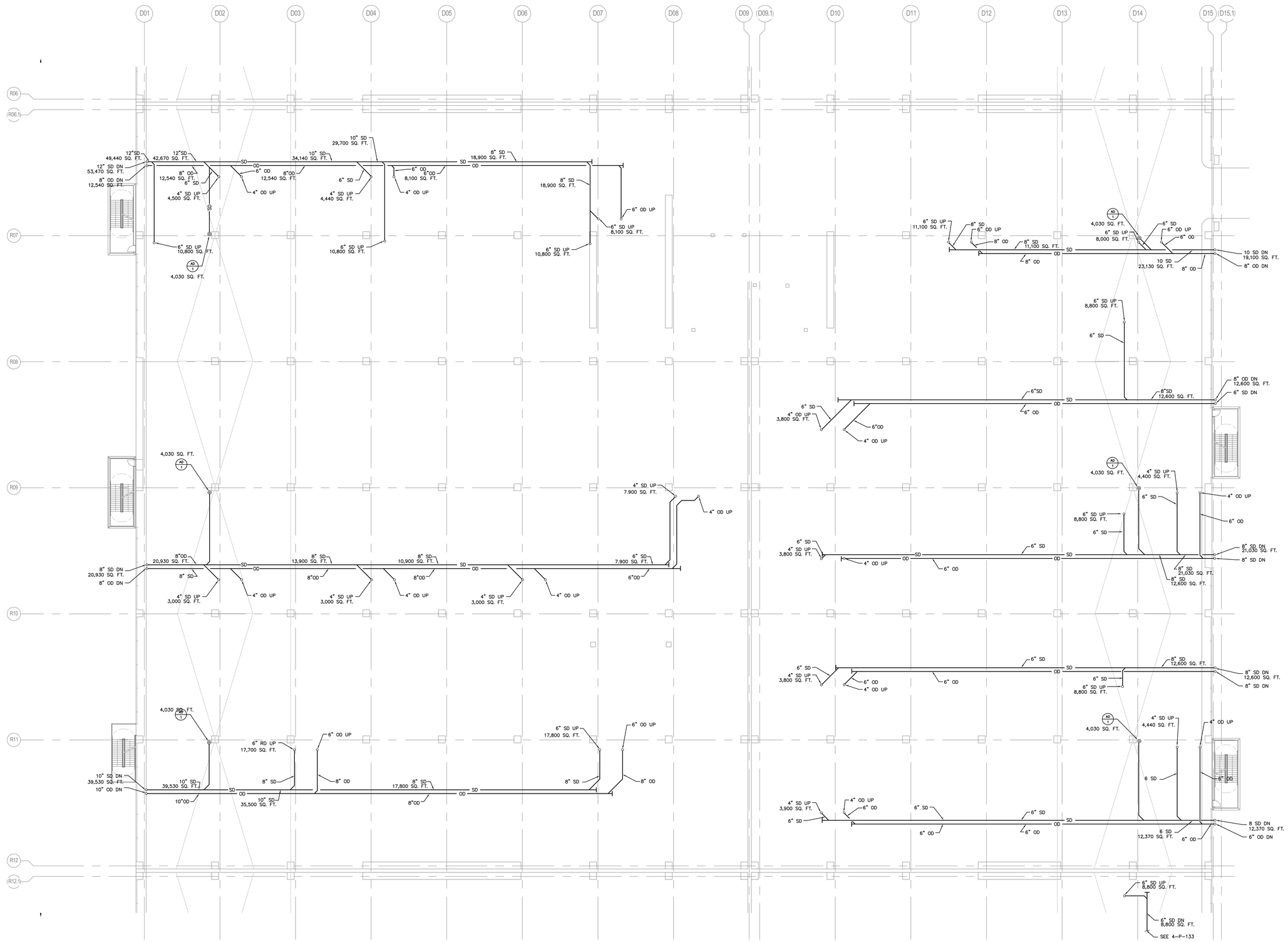
SHEET NO.

4-P-131

SHEET OF

P:\2015\2015-067-00\MPE\Vol-04_READY_RETURN\DA4881-4-P-131_L3D.dwg, Plotted: Jun 29, 2016 - 7:17pm

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

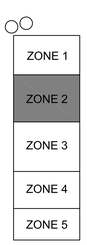


1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 2

SCALE: 1/16" = 1'-0"

KEY NOTES

1 -



BUILDING D KEYPLAN

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Phone: (562) 594-6974
Fax: (562) 594-6975

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CONSULTANTS:

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Voice: 626.650.0350
Fax: 626.650.0352
Proj. No.: 2012040100

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE PMD ANA LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 3 PLUMBING FLOOR PLAN

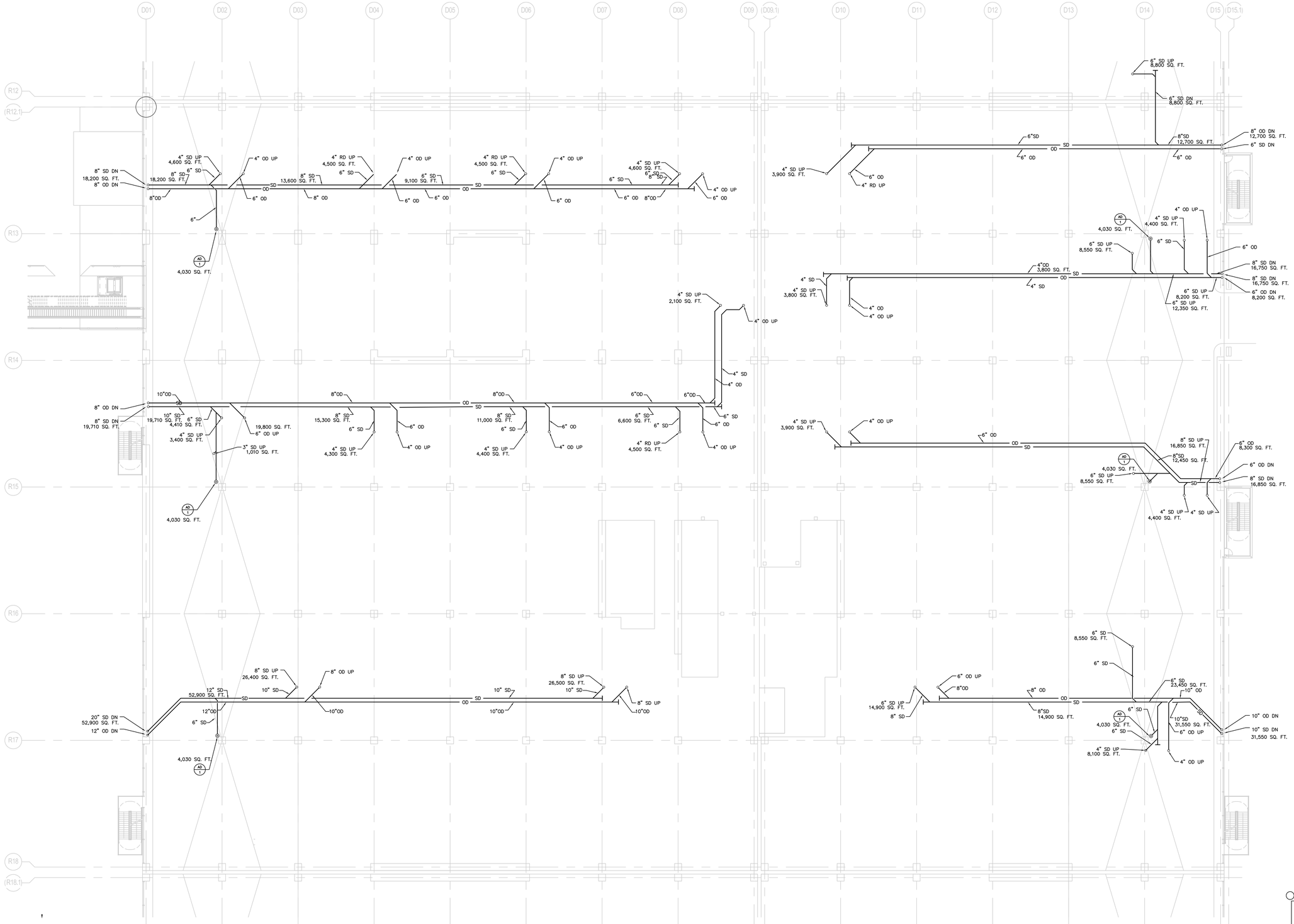
SHEET NO.

4-P-132

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-087-00\MPE\Vol-04_READY_RETURN\DA4881-4-P-132_L3D.dwg, Plotted: Jun 29, 2016 - 7:16pm



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 3

SCALE: 1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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GLENDORA, CA 91740
VOICE: 626.914.0300
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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 3
PLUMBING
FLOOR PLAN

SHEET NO.

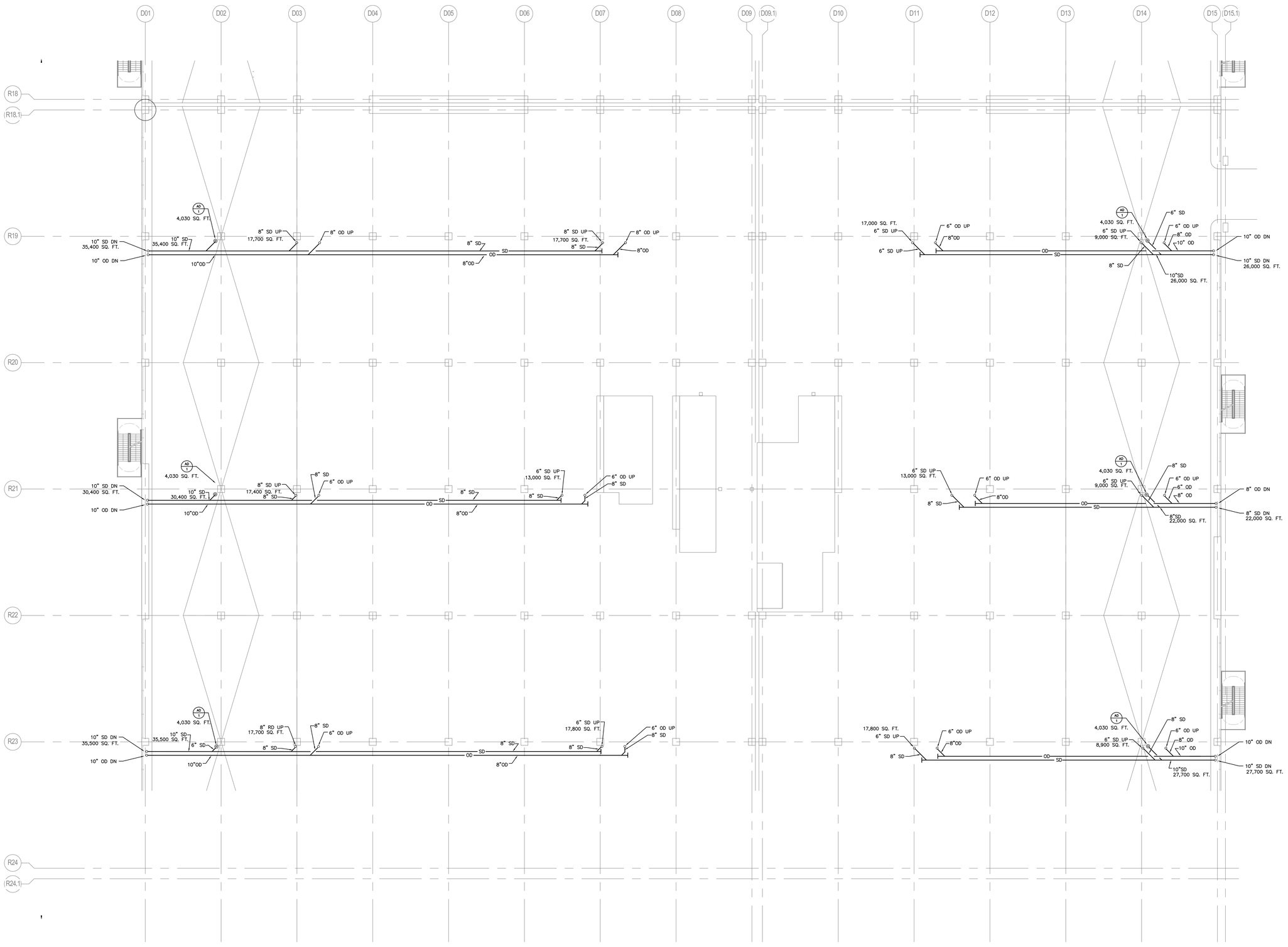
4-P-133

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

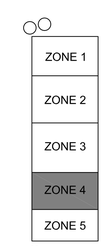
P:\2015\2015-067-00\MPE-Vol-04_READY_RETURN\DA4881-4-P-133_L3D.dwg Plotted: Jun 29, 2016 - 7:19pm

KEY NOTES



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 4

SCALE: 1/16" = 1'-0"



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Fax: 626.926.0352
Proj. No.: 2210-0400

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

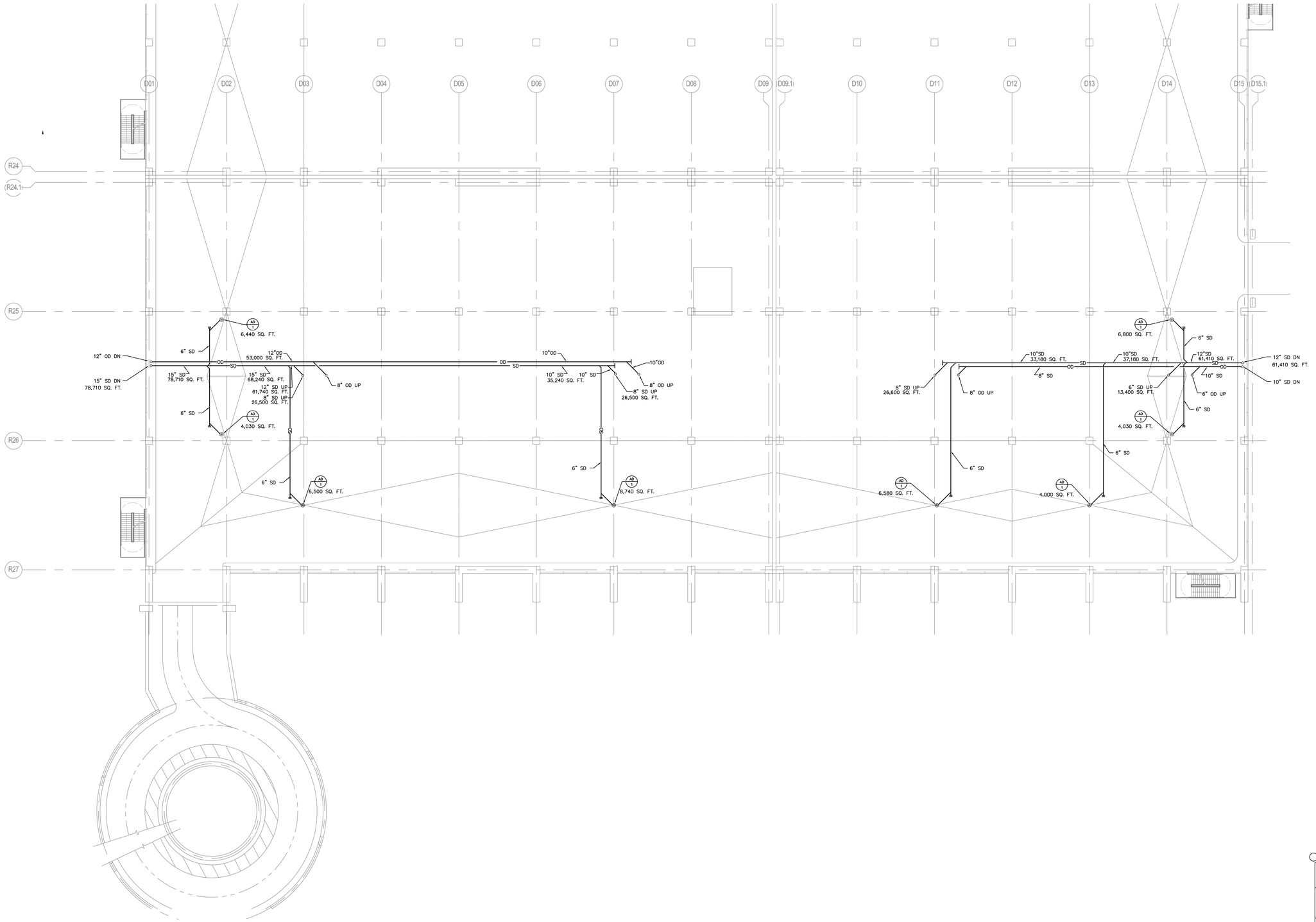
READY/ RETURN
LEVEL 3
PLUMBING
FLOOR PLAN

SHEET NO.
4-P-134

SHEET OF

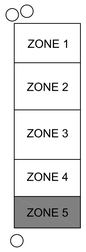
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-087-00\MPE-V4I-04_READY_RETURN\DA4881-4-P-134_LSD.dwg, Plotted: Jun 29, 2016, 7:19pm



1 BUILDING D - READY/RETURN - LEVEL 3 FLOOR PLAN - ZONE 5

SCALE: 1/16" = 1'-0"



BUILDING D KEYPLAN

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Los Angeles, California 90017
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Fax: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

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GLENDORA, CA 91740
Voice: 626.914.0000
Fax: 626.926.0352
Proj. No.: 2210-0047-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN
LEVEL 3
PLUMBING
FLOOR PLAN

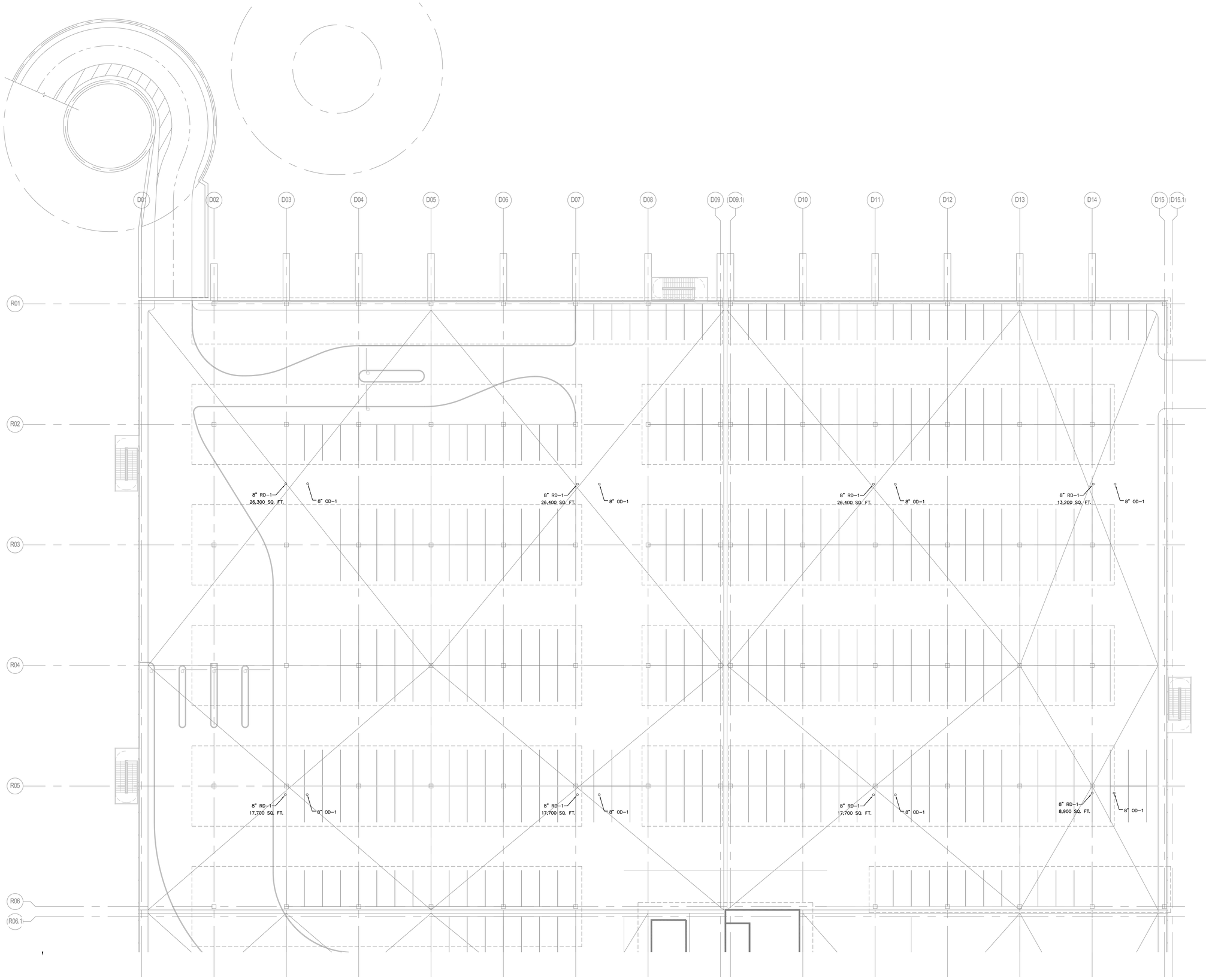
SHEET NO.

4-P-135

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-047-00\MPE\V04\04_READY_RETURN\DA4881-4-P-135_LSD.dwg, Plotted: Jun 29, 2016 - 3:46pm



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 1

SCALE: 1/16" = 1'-0"

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/ RETURN LEVEL 4 PLUMBING FLOOR PLAN

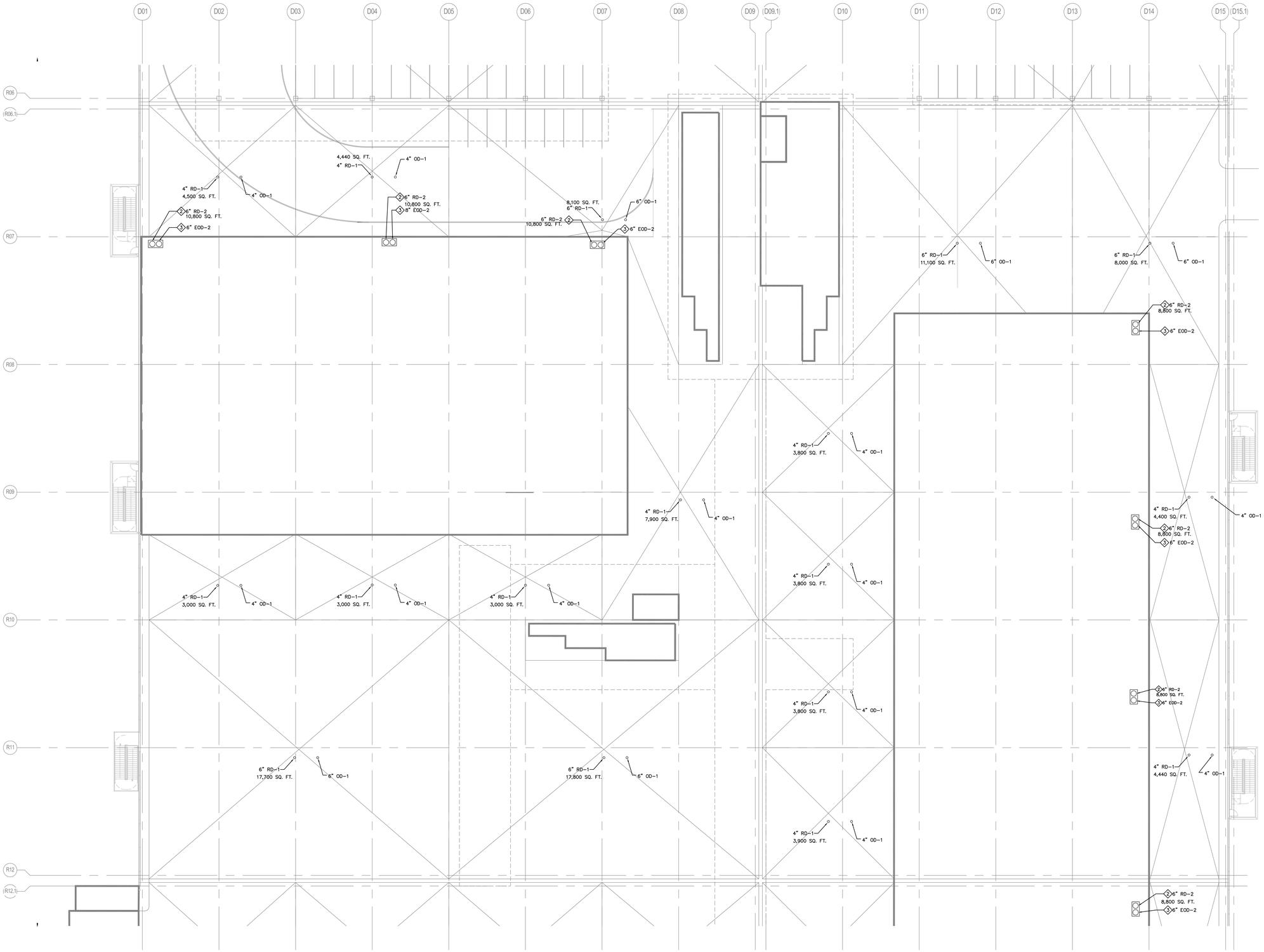
SHEET NO.

4-P-141

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2016\2016-067-00\MPS-00-04_READY_RETURN\DA4881-4-P-141_L4D.dwg Plotted Jun 29, 2016 - 3:40pm



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 2
SCALE: 1/16" = 1'-0"

KEY NOTES

1. WASTE, WATER, VENT AND WATER HEATING TO BE PROVIDED FOR ASSOCIATED PUBLIC & STAFF RESTROOMS.
2. ROOF DRAINAGE OF CSB BUILDINGS TO BE COLLECTED BELOW DECK AND TIED INTO PARKING LEVEL ROOF DRAINAGE.
3. EMERGENCY OVERFLOW DRAIN OF RAC LEVEL 4 BUILDINGS TO GO DOWN FURRED WALL AND DAYLIGHT THROUGH WALL 6" ABOVE LEVEL 4 FINISHED GRADE WITH SPLASH BLOCK.

GENERAL NOTES

1. USED 2"/HR RAINFALL RATES, TABLES 11-1 AND 11-2, 2013 CPC.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Los Angeles World Airports
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LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE ANA PMD LAX

REVISIONS:

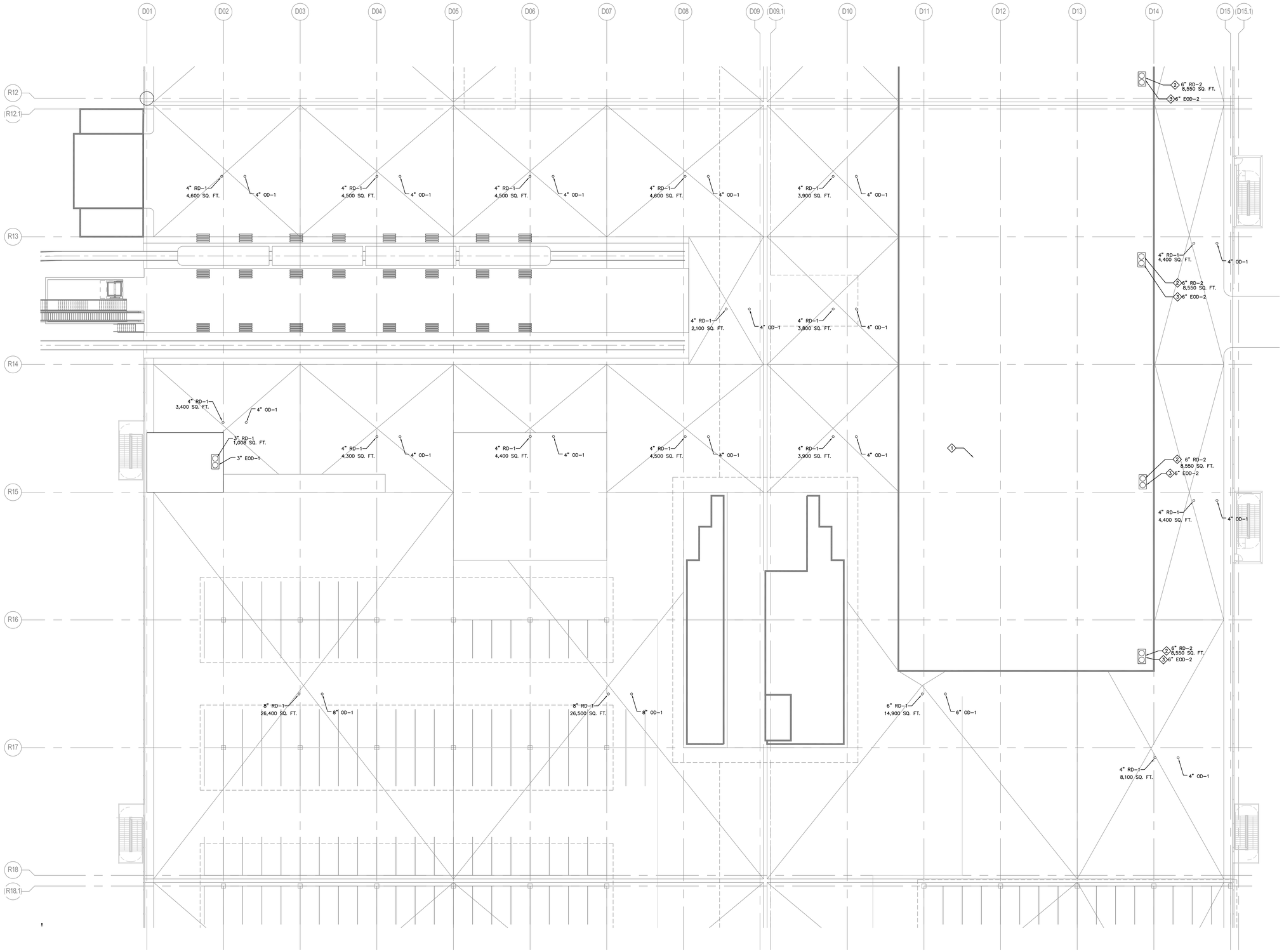
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 4 PLUMBING FLOOR PLAN

SHEET NO.
4-P-142
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 3

SCALE: 1/16" = 1'-0"

KEY NOTES

1. WASTE, WATER, VENT AND WATER HEATING TO BE PROVIDED FOR ASSOCIATED PUBLIC & STAFF RESTROOMS.
2. ROOF DRAINAGE OF CSB BUILDINGS TO BE COLLECTED BELOW DECK AND TIED INTO PARKING LEVEL ROOF DRAINAGE.
3. EMERGENCY OVERFLOW DRAIN OF RAC LEVEL 4 BUILDINGS TO GO DOWN FURRED WALL AND DAYLIGHT THROUGH WALL 6" ABOVE LEVEL 4 FINISHED GRADE WITH SPLASH BLOCK.

GENERAL NOTES

1. USED 2"/HR RAINFALL RATES, TABLES 11-1 AND 11-2, 2013 CPC.

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Proj. No.: 2015-067-00

Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

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SUBMITTED BY _____ ASST. CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

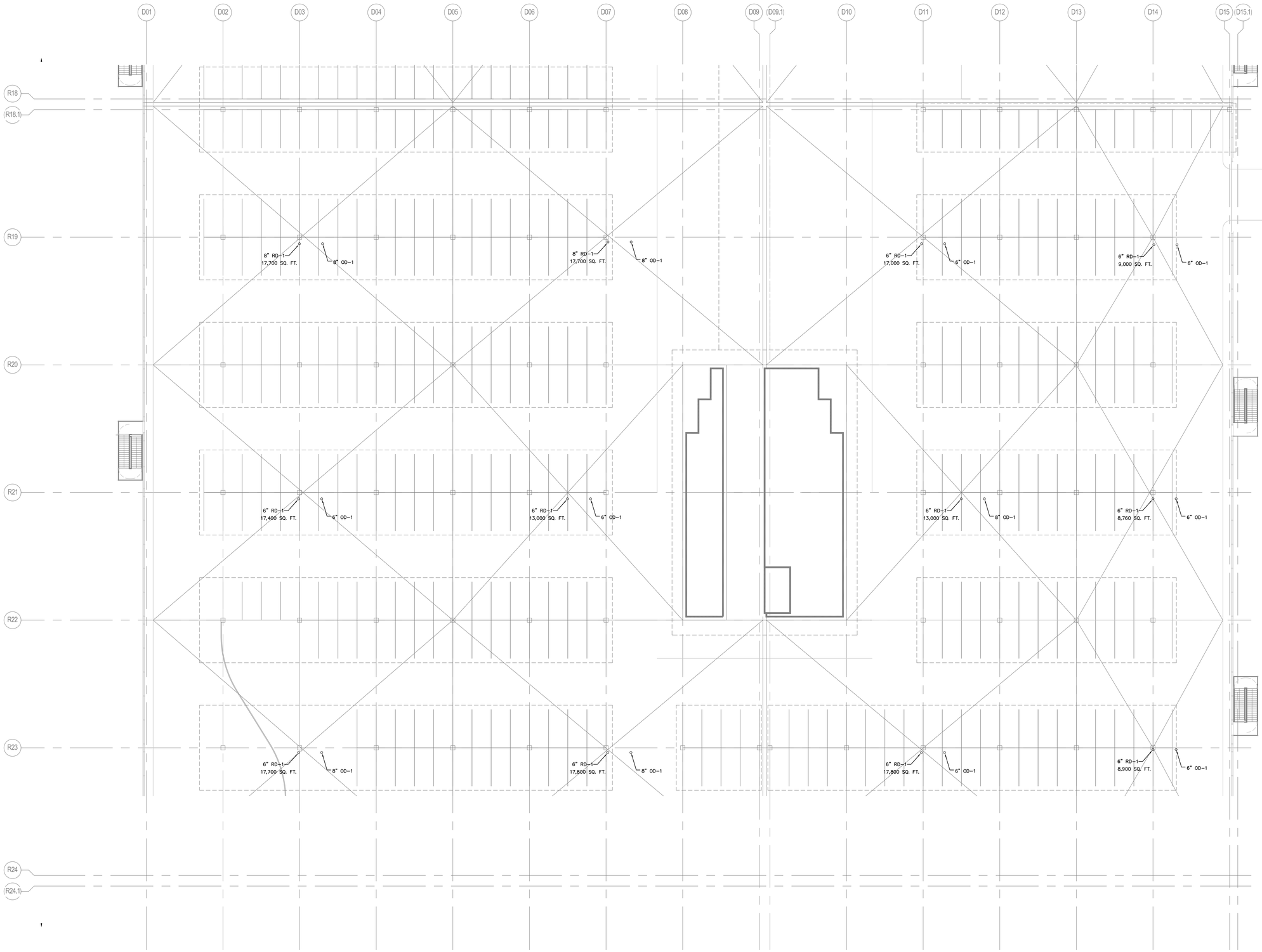
PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/ RETURN LEVEL 4 PLUMBING FLOOR PLAN

SHEET NO.
4-P-143

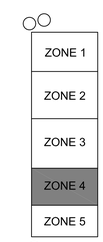
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 4
SCALE: 1/16" = 1'-0"

KEY NOTES



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Los Angeles World Airports

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Los Angeles International Airport

SUBMITTED BY

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APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

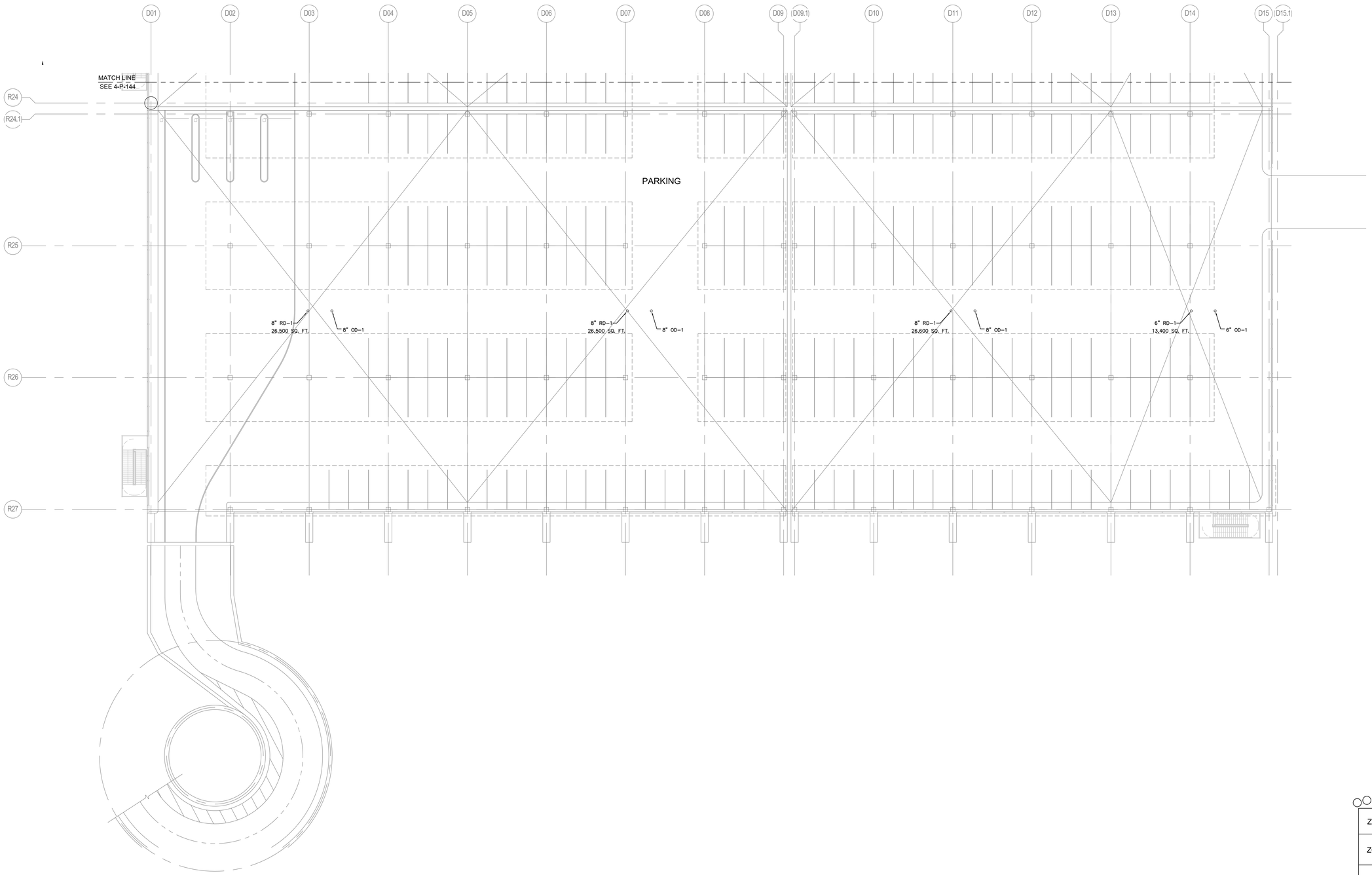
READY/ RETURN
LEVEL 4
PLUMBING
FLOOR PLAN

SHEET NO.
4-P-144

SHEET OF

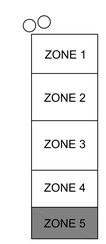
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\MPE-Vol-04_READY_RETURN\DA4881-4-P-144_L40.dwg, Plotted: Jun 29, 2016 - 3:40pm



1 BUILDING D - READY/RETURN - LEVEL 4 FLOOR PLAN - ZONE 5

SCALE: 1/16" = 1'-0"



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Los Angeles World Airports

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Los Angeles International Airport

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APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TH
DRAWN BY: LC
CHECKED BY: TH

SHEET TITLE:

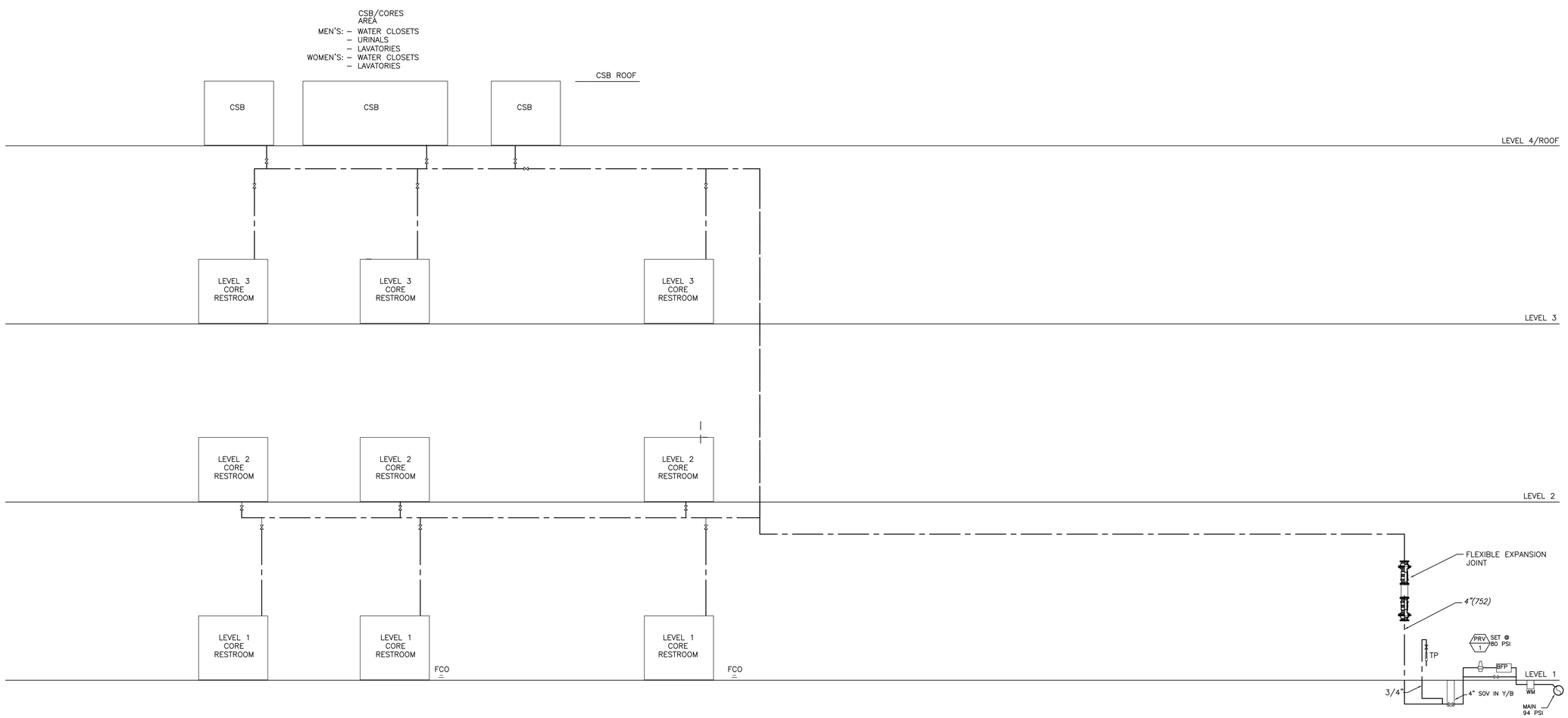
READY/ RETURN
LEVEL 4
PLUMBING
FLOOR PLAN

SHEET NO.

4-P-145

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 PLUMBING WATER RISER DIAGRAM- READY/RETURN

SCALE: NOT TO SCALE

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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Los Angeles World Airports

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Los Angeles International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

READY/RETURN
WATER
RISER DIAGRAM

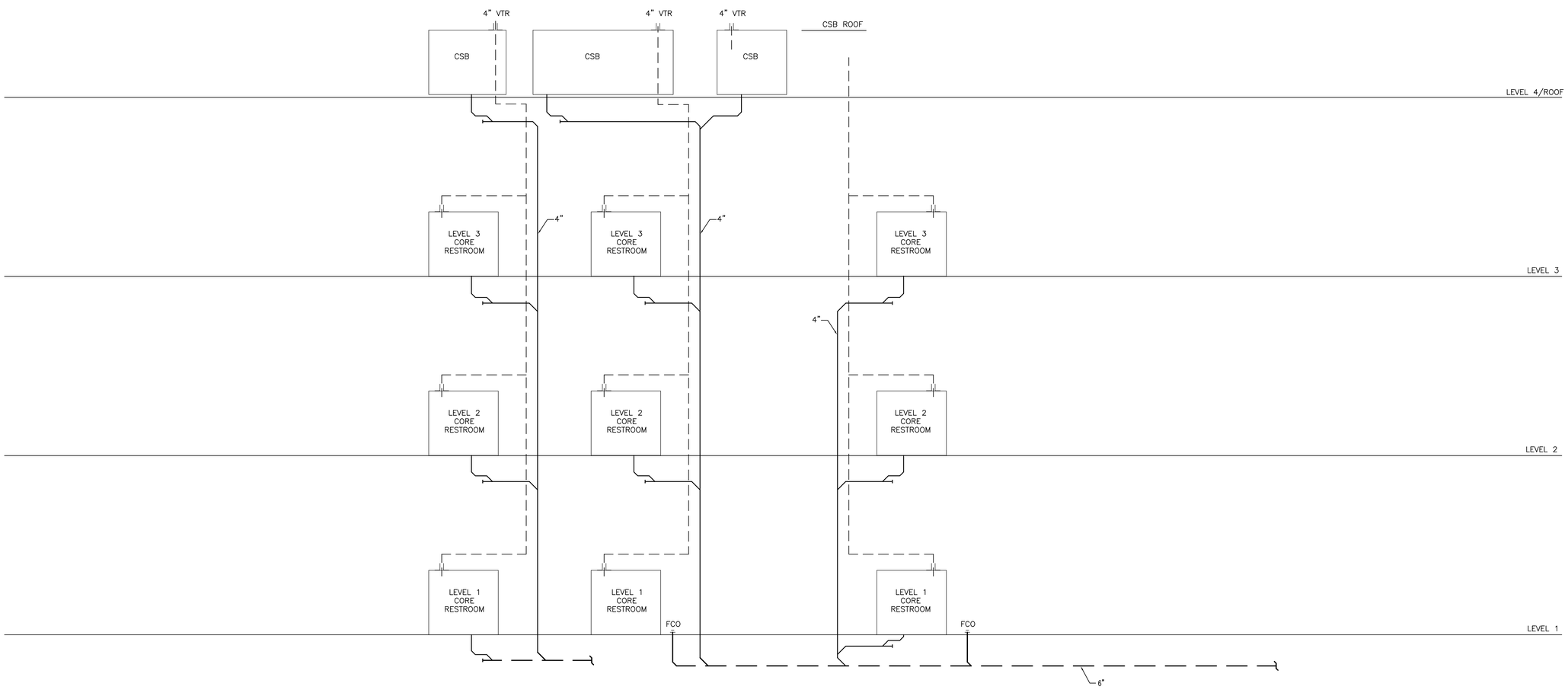
SHEET NO.

4-P-601

SHEET OF

CSB/CORES AREA LEVEL 4

MEN'S:	9 WATER CLOSETS
	6 URINALS
	9 LAVATORIES CSB
WOMEN'S:	15 WATER CLOSETS
	15 LAVATORIES
FAMILY:	3 WATER CLOSETS
	3 LAVATORIES
MOP CLOSET:	3 MOP SINK



1 PLUMBING WASTE AND VENT RISER DIAGRAM-READY/RETURN

SCALE: NOT TO SCALE

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Los Angeles, California 90017
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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:

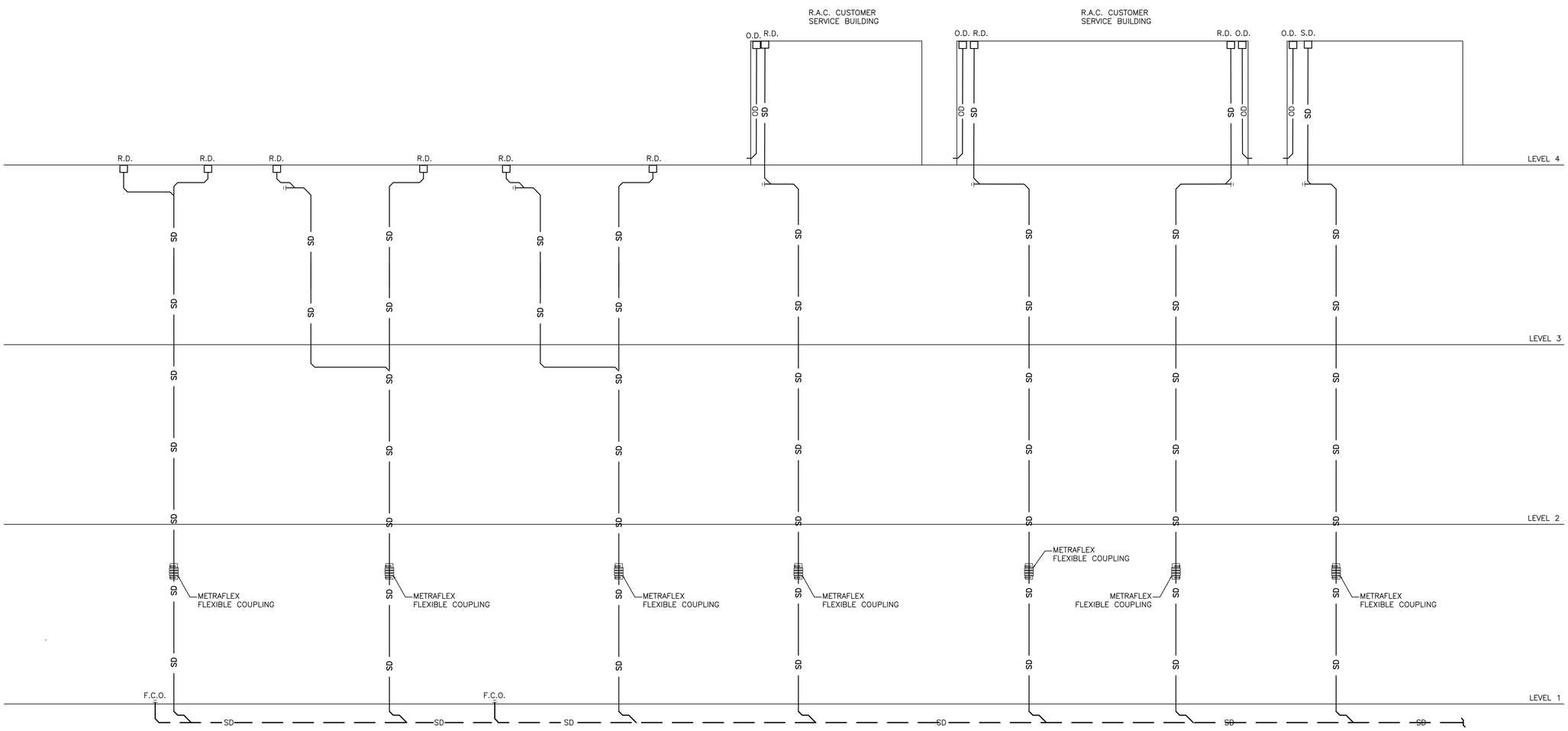
READY/RETURN WASTE AND VENT RISER DIAGRAMS

SHEET NO.

4-P-602

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 PLUMBING STORM DRAIN RISER DIAGRAM-READY/RETURN
SCALE: NOT TO SCALE

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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Los Angeles World Airports
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Los Angeles International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: JW
DRAWN BY: JW
CHECKED BY: NP

SHEET TITLE:
READY/RETURN STORM DRAIN RISER DIAGRAMS

SHEET NO.
4-P-603
SHEET OF

LAX CONRAC Facility Preliminary Electrical Load (kVA)			06/29/16
Area Description	Sq Ft	KVA	Remarks
RAC Ready/Return Garage	3,169,777	3,380	
Idle Storage Garage	2,490,511	1,342	
Customer Service Building	95,280	2,695	
QTA Buildings	1,099,947	6,778	
	6,855,515	14,196	KVA
		1,973	AMPS @4160V

LAX CONRAC									06/29/16
Load Type		Lighting	General Power	Electric Vehicle Charging	Plumbing	HVAC	Spare Capacity (15%)	Total	Remarks
		0.30	0.15	0.30	0.04	0.02	0.12	0.93	VA/sq Ft
RAC Ready/Return Garage (levels 1, 2 & 3)	2,448,792	735	367	730	98	49	297	2,275	
		0.10	0.00	0.33	0.00	0.00	0.06	0.49	
RAC Ready/Return Garage (level 4 = roof))	704,984	70	0	230	0	0	45	346	
Special Systems Load (See separate calc)								759	
Roof (APM)	16,001								
	3,169,777								
	Sq Ft					Grand Total		3,380	KVA
								470	AMPS @4160V

Assumptions:

Lighting- 0.3W/Sq.ft for RAC garage, considering 10-20FC for sales floor.
Power- General power includes power for receptacles and misc. items such as IT/Security and signage.
Electric Vehicle Charging- Includes 5% of 7600 cars (lvl 1,2,3) =380 carsx16A@120V=729,600VA + 10% of 1200 cars (lvl 4) =120 cars x16A@120V=230,400VA.
HVAC- HVAC includes power for HVAC equipment for booths.

SPECIAL SYSTEM LOAD CALCULATIONS				
	VA, each	QTY	kVA	
Vacuum				Assumed 4 vacuum positions at 14 bays (56 positions) on each floor, or168 positions total at all 3 floors.
25HP/6 Positions	27100	28	759	

LAX CONRAC									06/28/16
Load Type		Lighting	General Power	Electric Vehicle Charging	Plumbing	HVAC	Spare Capacity (15%)	Total	Remarks
		0.20	0.10	0.00	0.04	0.01	0.05	0.40	VA/sq Ft
Idle Storage Garage (levels 1, 2 & 3)	1,867,884	374	187	0	75	19	98	752	
		0.10	0.00	0.72	0.00	0.00	0.12	0.95	
Idle Storage Garage (level 4 = roof)	622,627	62	0	451	0	0	77	591	
	2,490,511								
	Sq Ft					Grand Total		1,342	KVA
								187	AMPS @4160V

Assumptions:

Lighting- 0.2W/Sq.ft for parking at 10FC on levels 1, 2 & 3, and 0.10W/sf for paking at 5FC on roof.
Power- General power includes power for receptacles and misc. items such as IT/Security and signage(if required).
Electric Vehicle Charging- Includes 0% of 10,600 cars (lvl 1,2,3) and 10% of 2350 employee/visitor cars on roof = 235 x 16A @120V = 451,200 VA.

LAX CONRAC									06/28/16
Load Type		Lighting	General Power	Vertical Transport	Plumbing	HVAC	Spare Capacity (15%)	Total	Remarks
		1.00	3.00	12.60	1.00	7.00	3.69	28.29	VA/sq Ft
Customer Service Building	95,280	95	286	1,201	95	667	352	2,695	
	Sq Ft					Grand Total		2,695	KVA
								375	AMPS @4160V

Assumptions:

VT = (18 Elevators x 40KVA = 720KVA) + (24 Escalators x 20KVA = 480KVA) = 1200KVA
Lighting- 1W/Sq.ft for CSB considering 30-40 FC
Power- General power includes power for receptacles and misc. items such as IT/Security.
HVAC- HVAC includes power for HVAC equipment such AHUs, VAVs, split system and exhaust fans.

LAX CONRAC									05/31/16
Load Type		Lighting	General Power	Vertical Transport	Plumbing	HVAC	Spare Capacity (15%)	Total	Remarks
		0.60	0.50	0.14	0.40	0.50	0.32	2.47	VA/sq Ft
QTA Buildings	831,841	499	416	120	333	416	268	2,051	This total KVA does not include QTA System load
QTA roof (green roof)	268,106	0	0	0	0	0	0	0	
"QTA System Load (See Separate Calculations)"								4,727	
	1,099,947								
	Sq Ft					Grand Total		6,778	KVA
								942	AMPS @4160V

Assumptions:

VT = 3 Elevators = 3 x 40KVA = 120KVA
Lighting- 0.6W/Sq.ft for QTA considering different FC levels for different areas
Power- General power includes power for receptacles and misc. items such as IT/Security
HVAC- HVAC includes power for HVAC equipment in restrooms/Offices

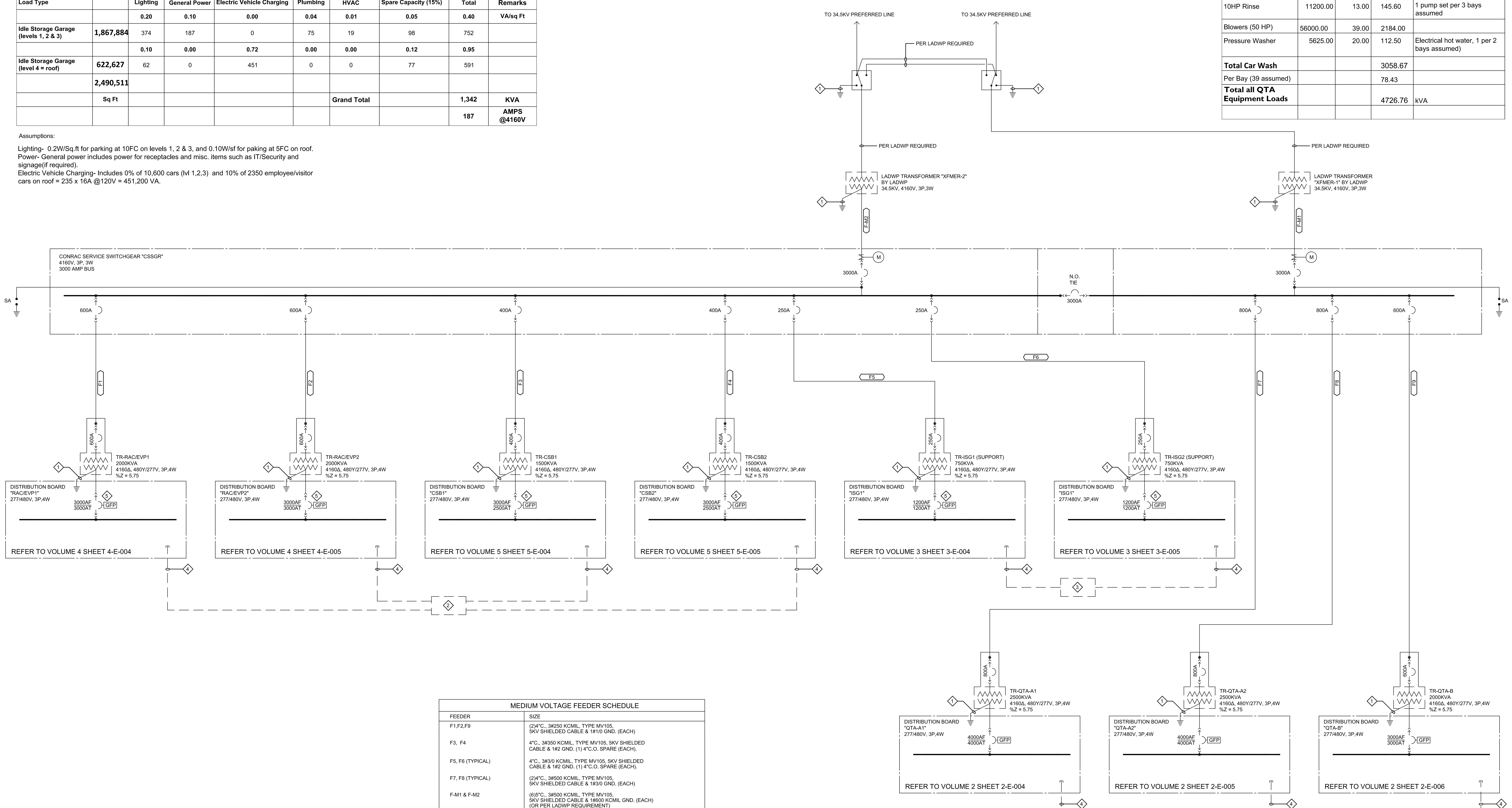
QTA SYSTEM LOAD CALCULATIONS				
	VA, each	QTY	kVA	
Gasoline, WWF				
STP 4 HP w VFD	5200.00	30.00	156.00	
Dispenser	600.00	90.00	54.00	
Monitoring	150.00	6.00	0.90	
WWF Pump	6400.00	2.00	12.80	
Misc Control Loads			10.00	
Total Gas, WWF			233.70	
Per Fuel Position		180.00	1.30	
Per Dispenser		90.00	2.60	
Vacuum				
25HP/6 Positions	27100.00	30.00	813.00	
Compressors (15 HP+ Dryer)	16800.00	10.00	168.00	
Lifts (20A/208V)	7196.80	63.00	453.40	
Car Wash (based on 39 Bays Total)				
	VA	Qty	kVA	
Brush Motors - 6.5A/480V	5397.60	39.00	210.51	
RO System (2 HP)	2240.00	24.00	53.76	6000 GPD units assumed, 144,000 GPD total
25HP Reclaim	27100.00	13.00	352.30	1 pump set per 3 bays assumed - assumeds flooder arch
10HP Rinse	11200.00	13.00	145.60	1 pump set per 3 bays assumed
Blowers (50 HP)	56000.00	39.00	2184.00	
Pressure Washer	5625.00	20.00	112.50	Electrical hot water, 1 per 2 bays assumed)
Total Car Wash			3058.67	
Per Bay (39 assumed)			78.43	
Total all QTA Equipment Loads			4726.76	kVA

GENERAL NOTES

1. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING LOCATED OUTDOORS, SHALL BE GASKETTED NEMA 3R STAINLESS STEEL.
2. ENTIRE ELECTRICAL SWITCHBOARD SHALL BE PROVIDED WITH BOTTOM SEAL TO PREVENT GAS INTRUSION COMING FROM THE GROUND.
3. ALL CONDUIT OPENINGS (KNOCK-OUTS) AT BOTTOM OF SWITCHBOARD SHALL BE PROVIDED WITH LADBS APPROVED SEAL TO MAINTAIN EQUIPMENT INTEGRITY.
4. ALL ELECTRICAL CONDUITS FOR THE ENTIRE PROJECT SHALL BE PROVIDED WITH LA CITY APPROVED CONDUIT SEALS FOR METHANE MITIGATION AFTER INSTALLATION OF CONDUCTORS.
5. ALL ELECTRICAL EQUIPMENT, DEVICES AND METHOD OF CONSTRUCTION SHALL COMPLY WITH LOS ANGELES CITY ORDINANCE NO. 175790 FOR METHANE MITIGATION.
6. ALL EQUIPMENT SHOWN ON THIS PLAN SHALL HAVE MINIMUM RATING OF 130%%% OF AVAILABLE FAULT CURRENT AT THAT LOCATION.
7. CONTRACTOR TO COORDINATE WITH LADWP FOR CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL WORK RELATED LADWP.

KEY NOTES

1. 1"C., 1#4/0 BARE COPPER TO GROUNDING ELECTRODE SYSTEM. SEE SHEET 1-E-XXX DETAIL #XX.
2. PV POWER COLLECTOR/ IN VERTER BY PV CONTRACTOR AT CONRAC/ CSB BUILDING.
3. PV POWER IN VERTER BY PV CONTRACTOR AT IDLE STORAGE BUILDING.
4. (10)4"C.0. EACH FOR FUTURE PV POWER AND CONTROL AS REQUIRED . VERIFY IN FIELD.
5. PROVIDE DOUBLE INCOMING TERMINAL FOR FUTURE TAP IN PV POWER AT MAIN BREAKER. VERIFY IN FIELD.
6. PV POWER IN VERTER BY PV CONTRACTOR AT QTA BUILDING.



MEDIUM VOLTAGE FEEDER SCHEDULE	
FEEDER	SIZE
F1,F2,F9	(2)4"C., 3#250 KCMIL, TYPE MV105, 5KV SHIELDED CABLE & 1#1/0 GND. (EACH)
F3, F4	4"C., 3#350 KCMIL, TYPE MV105, 5KV SHIELDED CABLE & 1#2 GND. (1) 4"C.O. SPARE (EACH).
F5, F6 (TYPICAL)	4"C., 3#3/0 KCMIL, TYPE MV105, 5KV SHIELDED CABLE & 1#2 GND. (1) 4"C.O. SPARE (EACH).
F7, F8 (TYPICAL)	(2)4"C., 3#500 KCMIL, TYPE MV105, 5KV SHIELDED CABLE & 1#3/0 GND. (EACH)
F-M1 & F-M2	(6)5"C., 3#500 KCMIL, TYPE MV105, 5KV SHIELDED CABLE & 1#600 KCMIL GND. (EACH) (OR PER LADWP REQUIREMENT)

OVERALL SINGLE LINE DIAGRAM

SCALE: N.T.S.

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY CHIEF AIRPORTS ENGINEER

SUBMITTED BY ASST. CHIEF AIRPORTS ENGINEER

ONT VNY PMD LAX

REVISIONS: MARK DATE DESCRIPTION

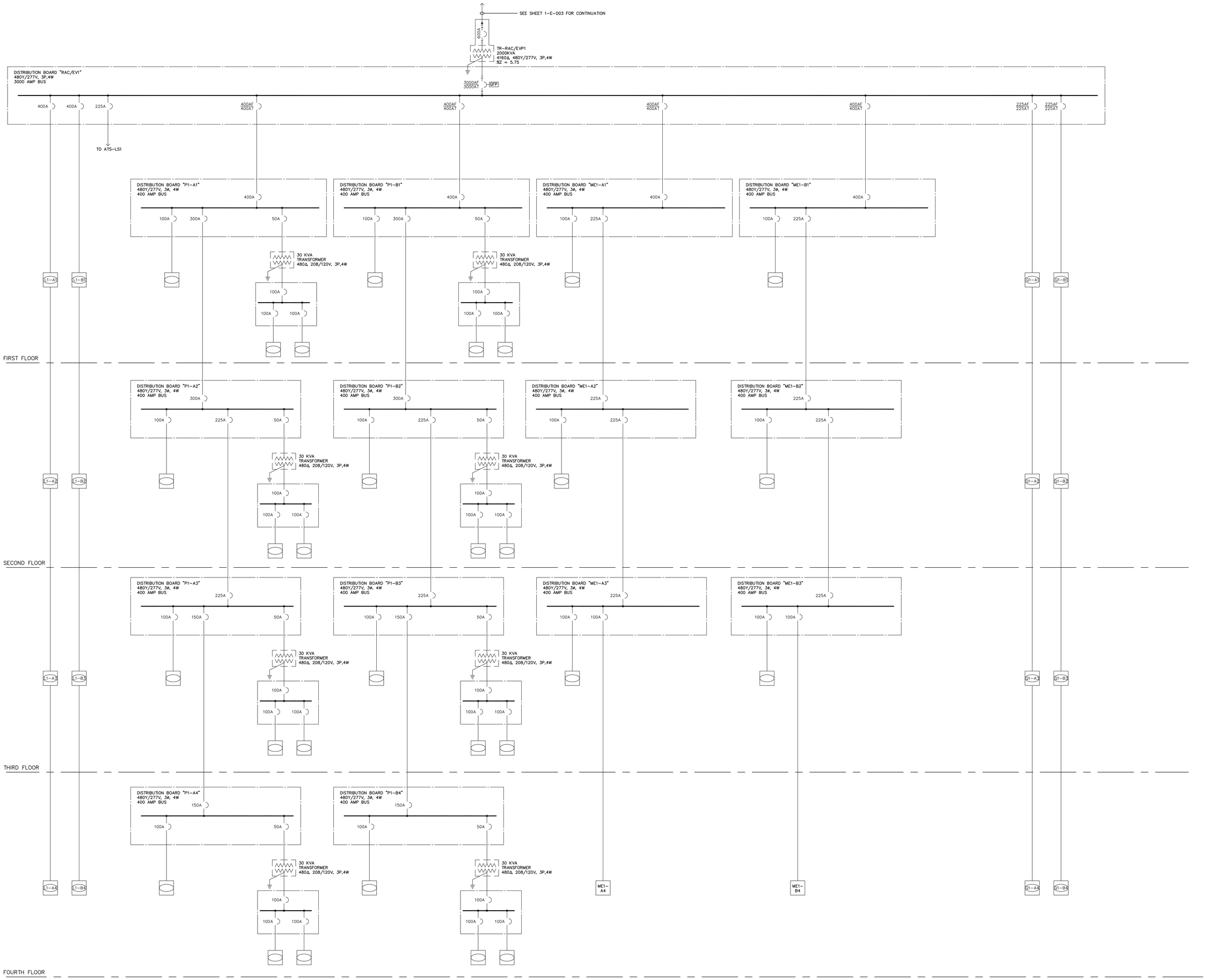
PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: PP
DRAWN BY: HL
CHECKED BY: KS/NB

SHEET TITLE: OVERALL SINGLE LINE DIAGRAM

SHEET NO. 4-E-003

SHEET OF

P:\2015\2015-067-00\MPE-Vol-04_READY_RETURN\DA4881-4-E-003.dwg, Plotted: Jun 30, 2016 - 3:48pm



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REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

RAC READY/RETURN BLDG.
SINGLE LINE DIAGRAM
RAC/EVP1

SHEET NO.
4-E-004
SHEET OF

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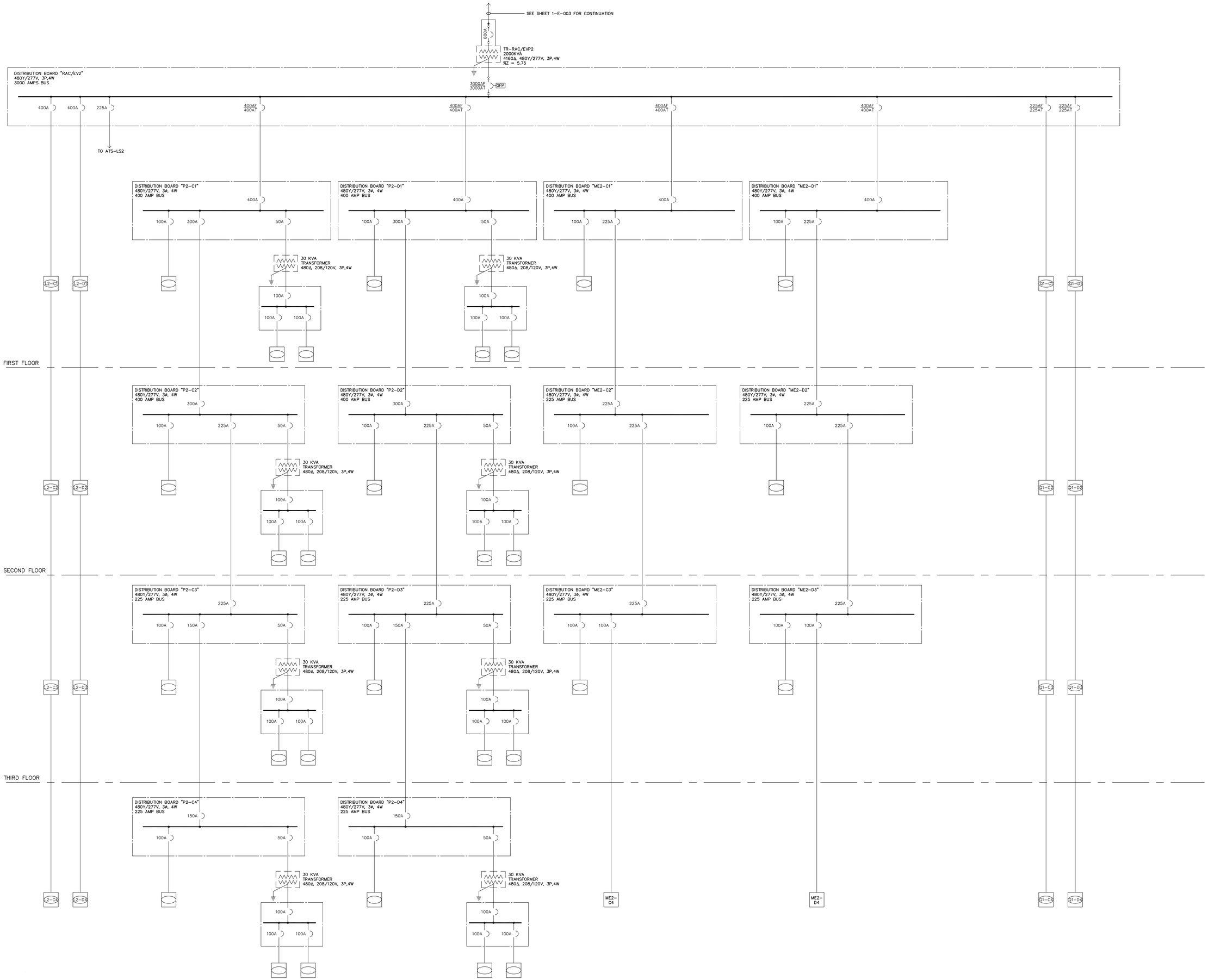

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ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

RAC READY/RETURN BLDG.
SINGLE LINE DIAGRAM
RAC/EVP2

SHEET NO.
4-E-005

SHEET OF

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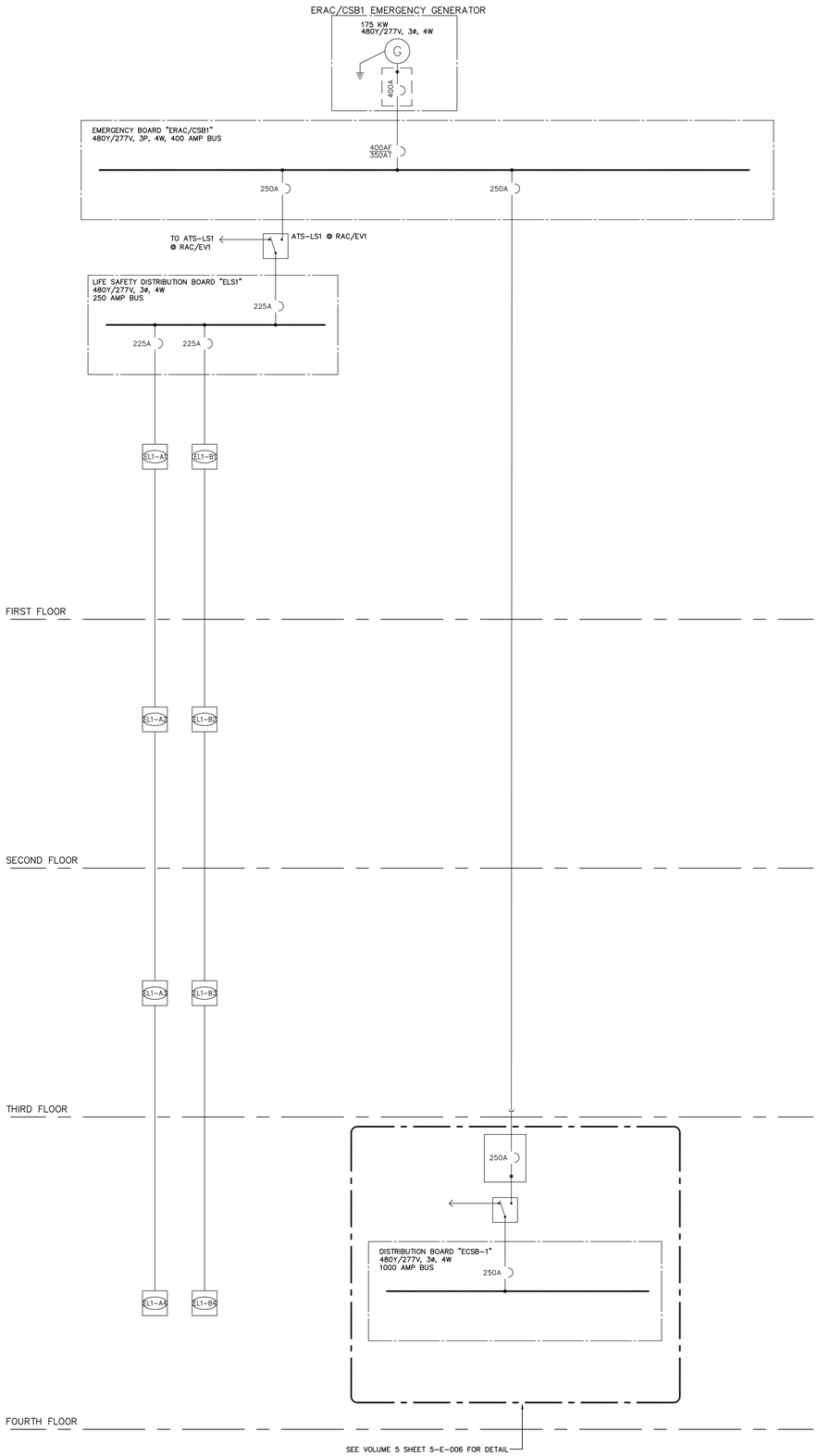
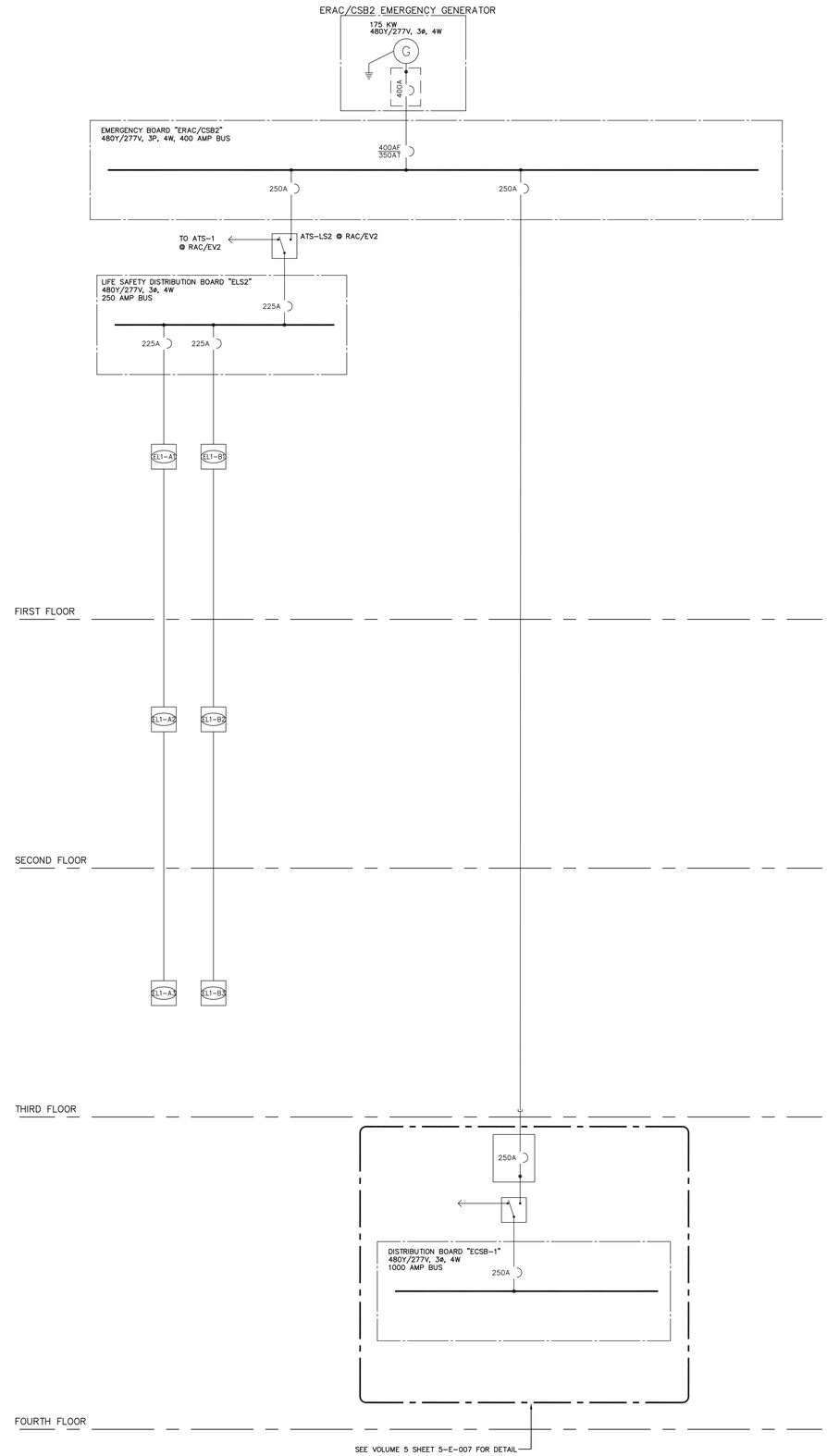


SINGLE LINE DIAGRAM "ERAC/CSB1"



SINGLE LINE DIAGRAM "ERAC/CSB2"

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SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

RAC/READY RETURN
EMERGENCY
SINGLE LINE DIAGRAM
TR-RAC/EVP1 & 2

SHEET NO.

4-E-006

SHEET OF

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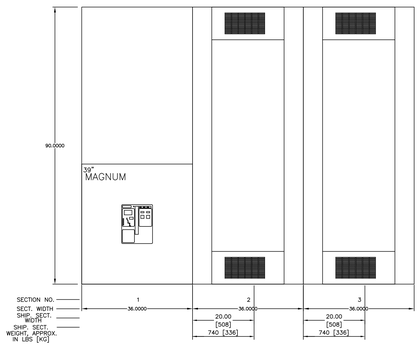
SYSTEM DETAILS
POW-R-LINE C
FRONT ACCESS/ FRONT AND REAR ALIGN
SYS. VOLT: 480V/277V 3-PHASE 4-WIRE
MAIN INTERRUPTER RATING: 65KA
MAIN BUS: 2000A
NEUTRAL BUS: 2000A
SERVICE ENTRANCE: SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT
SIX DISCONNECT RULE APPLIES
SWITCHBOARD CONSTRUCTION MEETS UL-891

BUS DETAILS
MATERIAL: COPPER BUS
COPPER GROUND BUS
BUS BRACING: 65KA

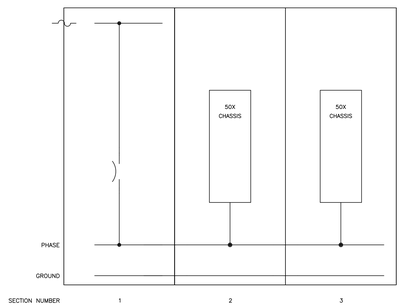
ENCLOSURE DETAILS
ENCLOSURE: TYPE 1
FINISH: ANSI-61

CODES AND STANDARDS
SWITCHBOARD IS SEISMIC LABELED.
IBC/CBC SEISMIC QUALIFIED.
REFER TO DWG# TD015080002E FOR SEISMIC FREE STANDING INSTALLATION GUIDELINES

MISCELLANEOUS NOTES

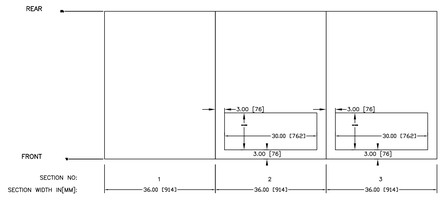


FRONT VIEW



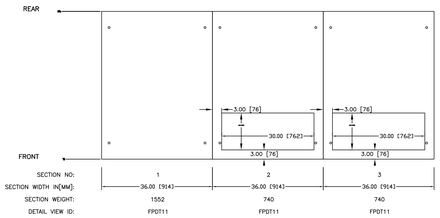
POWER FLOW VIEW

LIFTING MEANS ARE BOLTED TO EACH CORNER OF EACH SHIPPING SECTION.
LIFTING MUST BE ENCOMPASS BY CRANE IS THE RECOMMENDED METHOD OF MOVING THE EQUIPMENT.
CONDUIT ENTERING THE TOP OF THE SWITCHBOARD SHOULD TERMINATED FLUSH WITH TOP COVER.

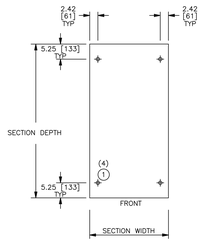


TOP PLAN VIEW

DOOR SWING IS EQUAL TO STRUCTURE WIDTH.
DOORS OPEN TO 90 DEGREES.
CONDUIT ENTERING BOTTOM OF SWITCHBOARD SHALL NOT EXTEND MORE THAN 3 INCHES INTO STRUCTURE.
REFER TO FLOOR PLAN DETAIL VIEW FOR ANCHOR LOCATIONS AND MOUNTING DETAILS.
MINIMUM CLEARANCE TO FRONT OF SWITCHBOARD TO BE NO LESS THAN WIDTH OF WIDEST STRUCTURE.
MINIMUM CLEARANCE TO REAR OF SWITCHBOARD TO BE GREATER THAN 4 INCHES.



FLOOR PLAN VIEW

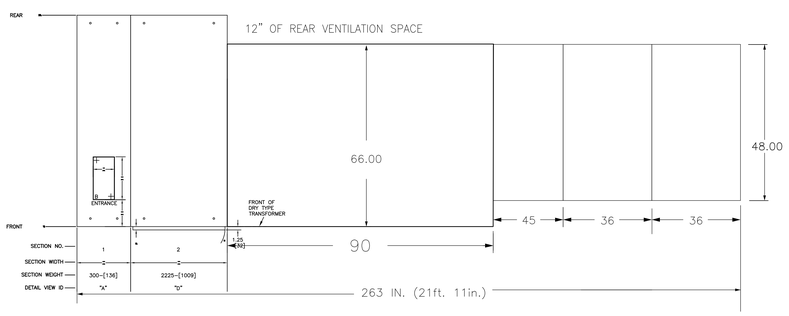


1. LOCATIONS FOR TIE-DOWN BOLTS. PROVISIONS FOR 1/2 [13] INCH ANCHOR BOLTS, GRADE 5 TORQUED AT 60 FT-LBS.
2. FINISHED FOUNDATION'S SURFACE SHALL BE LEVEL WITHIN 0.125 [0.3175] INCH IN 36 [914.4] INCHES LEFT-TO-RIGHT, FRONT-TO-BACK, AND DIAGONALLY, AS MEASURED BY A LASER LEVEL.
3. CLEARANCE FROM WALLS (NOT REAR ACCESSIBLE) – MINIMUM OF 1/2 INCH FOR INDOOR DRY LOCATIONS AND 6 INCHES FOR INDOOR WET LOCATIONS.

TYPICAL ANCHOR PLAN FOR TYPE 1 SEISMIC STRUCTURES

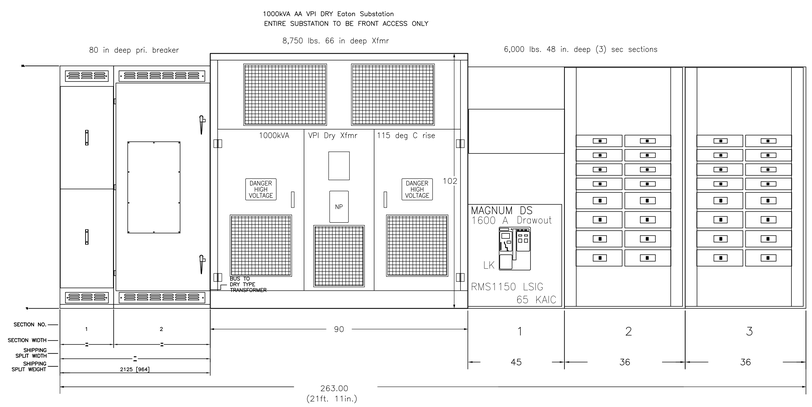
DETAIL VIEW ID FPDT 11

FLOOR PLAN DETAIL VIEWS



BASE PLAN VIEW

BASE PLAN VIEW



FOR SUB-TR-RA-EVP1 & SUB-TR-RA-EVP2

SCALE: NTS

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APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

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PROJ NO: DA4881
SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: NB
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CHECKED BY: KS

SHEET TITLE:
SWITCHBOARD SECTIONS

SHEET NO.
4-E-007
SHEET OF

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P:\2015\2015-067-00\MPE-Vol-04_IFB\DV_RETURN\DA4881-E-007.dwg, Plotted: Jun 29, 2016 - 6:16pm

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LAMP(S)	REMARKS	MANUFACTURER & NO.
G1 53	SURFACE MOUNTED. TOPTIER PARKING GARAGE FIXTURE IS BASIS OF DESIGN.	–	LED 53W	UNV	LITHONIA LIGHTING #DSXPG LED 20C 700 50K T5W MVOLT SRM DWHXP MCGRAW EDISON #TT A3 LED E1 WQ/CREE #PKG-EDG/ LSI #XPG3D-5-LED50-450-CW-UE-XX
	–	–	–	UNV	–
	–	–	–	UNV	–

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SCALE: N.T.S.
DATE: 07/01/2016
DESIGNED BY: NB
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SHEET TITLE:

RAC/READY RETURN
LIGHTING
FIXTURE SCHEDULES

SHEET NO.

4-E-008

SHEET OF

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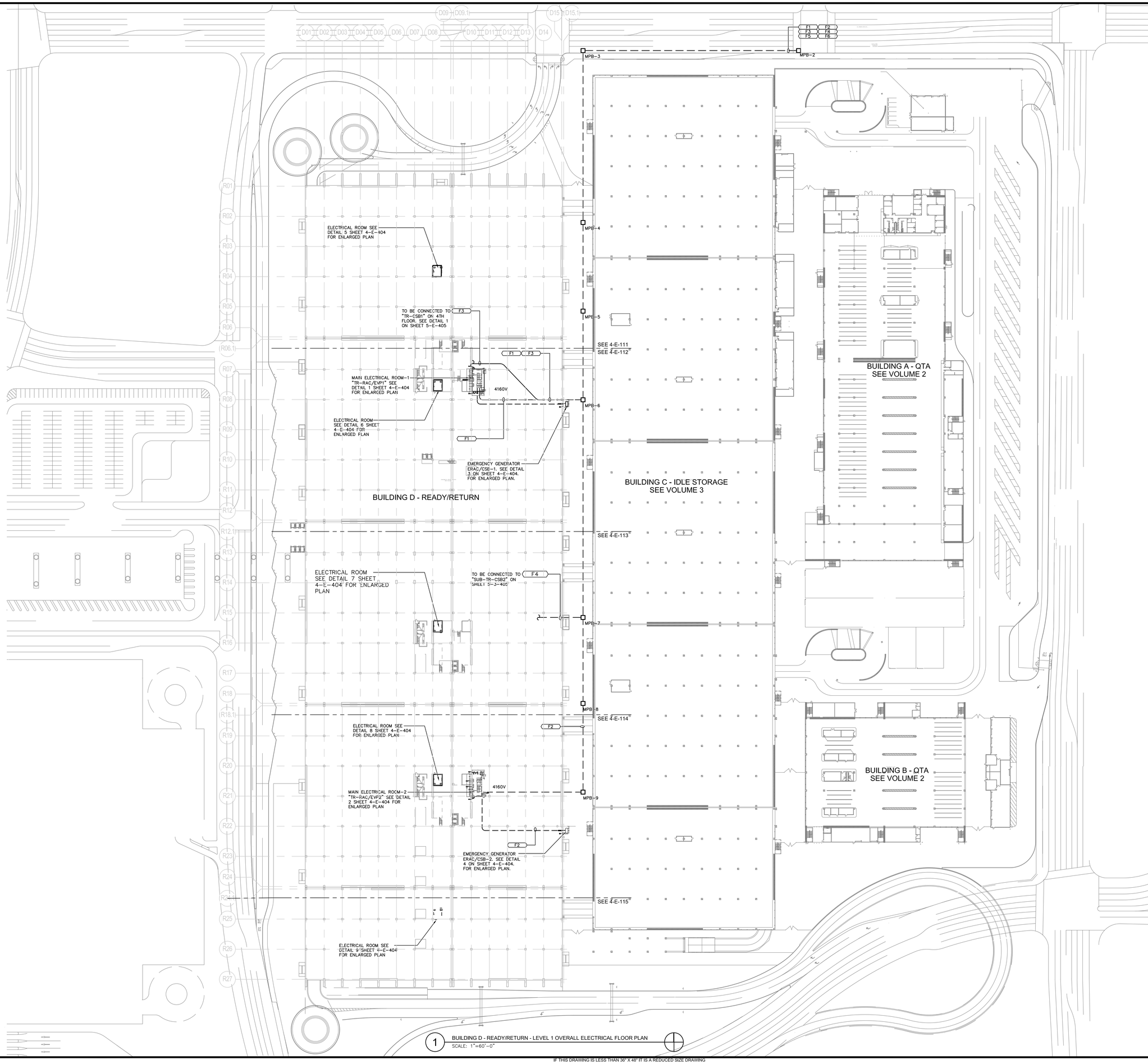

1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL ELECTRICAL FLOOR PLAN

SCALE: 1"=60'-0"

GENERAL NOTES

1. ALL UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED.
2. PROVIDE 4" HIGH CONCRETE PAD TO MOUNT GROUND POWER UNITS.
3. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R STAINLESS STEEL GASKETED.
4. FOR ALL OUTLETS, CONTRACTOR TO PROVIDE SUFFICIENT CONDUIT BENDS AND CLEARANCE.
5. ELECTRICAL SWITCHBOARD SHALL BE PROVIDED WITH BOTTOM SEAL TO PREVENT GAS INTRUSION COMING FROM THE GROUND.
6. ALL ELECTRICAL CONDUITS FOR THE ENTIRE PROJECT SHALL BE PROVIDED WITH LA CITY APPROVED CONDUIT SEALS FOR METHANE MITIGATION AFTER INSTALLATION OF CONDUCTORS.
7. ALL ELECTRICAL EQUIPMENT, DEVICES AND METHOD OF CONSTRUCTION SHALL COMPLY WITH LOS ANGELES CITY ORDINANCE NO. 175790 FOR METHANE MITIGATION.
8. ALL EQUIPMENT SHOWN ON THIS PLAN SHALL HAVE MINIMUM RATING OF 130% OF AVAILABLE FAULT CURRENT AT THAT LOCATION.

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DESIGNED BY: NB
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SHEET TITLE:

READY/RETURN
LEVEL 1 OVERALL
ELECTRICAL FLOOR PLAN

SHEET NO.

4-E-010

SHEET OF

KEYPLAN

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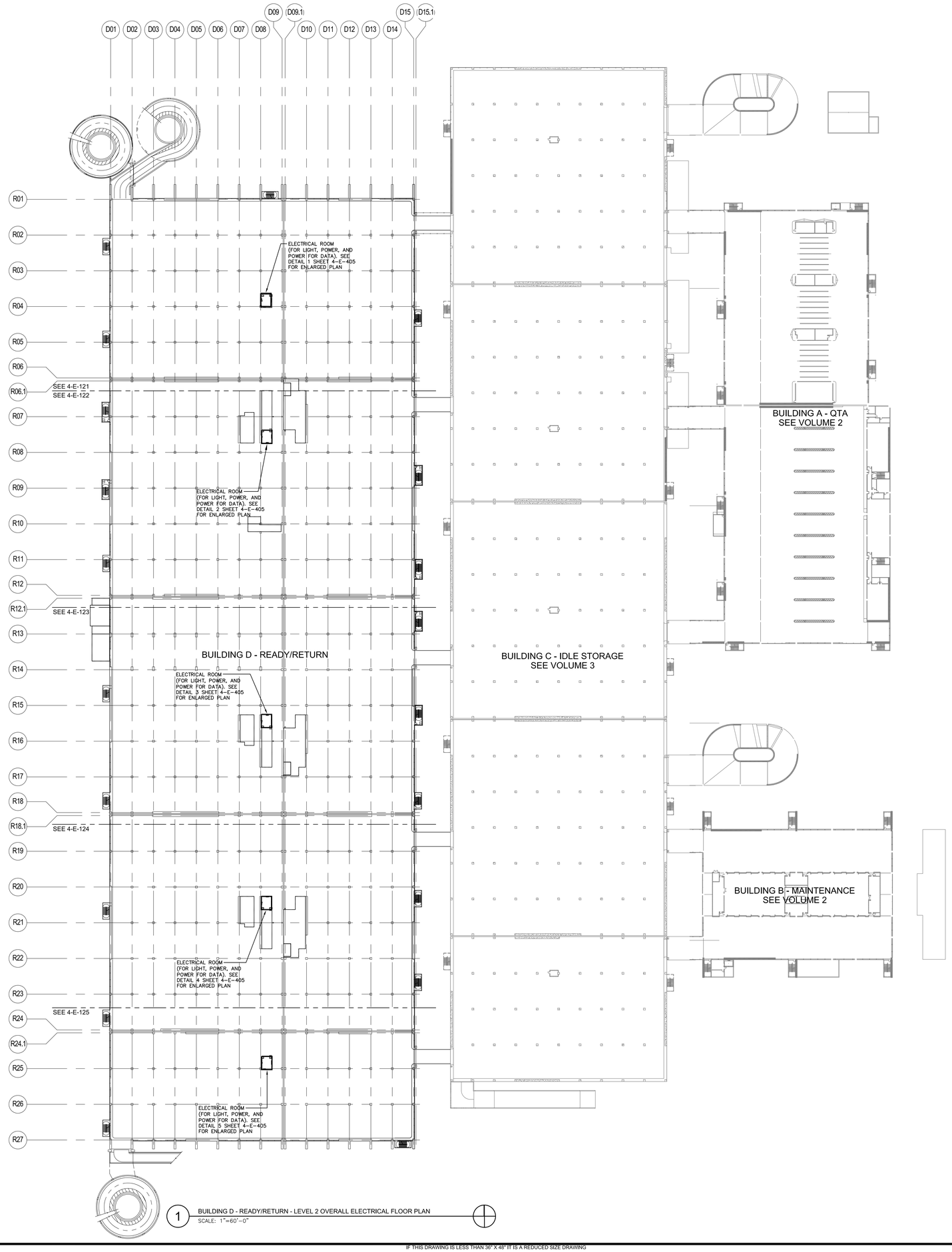
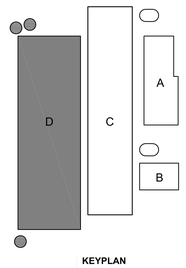


1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL ELECTRICAL FLOOR PLAN

SCALE: 1"=60'-0"



KEYPLAN

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SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 2 OVERALL
ELECTRICAL FLOOR PLAN

SHEET NO.

4-E-020

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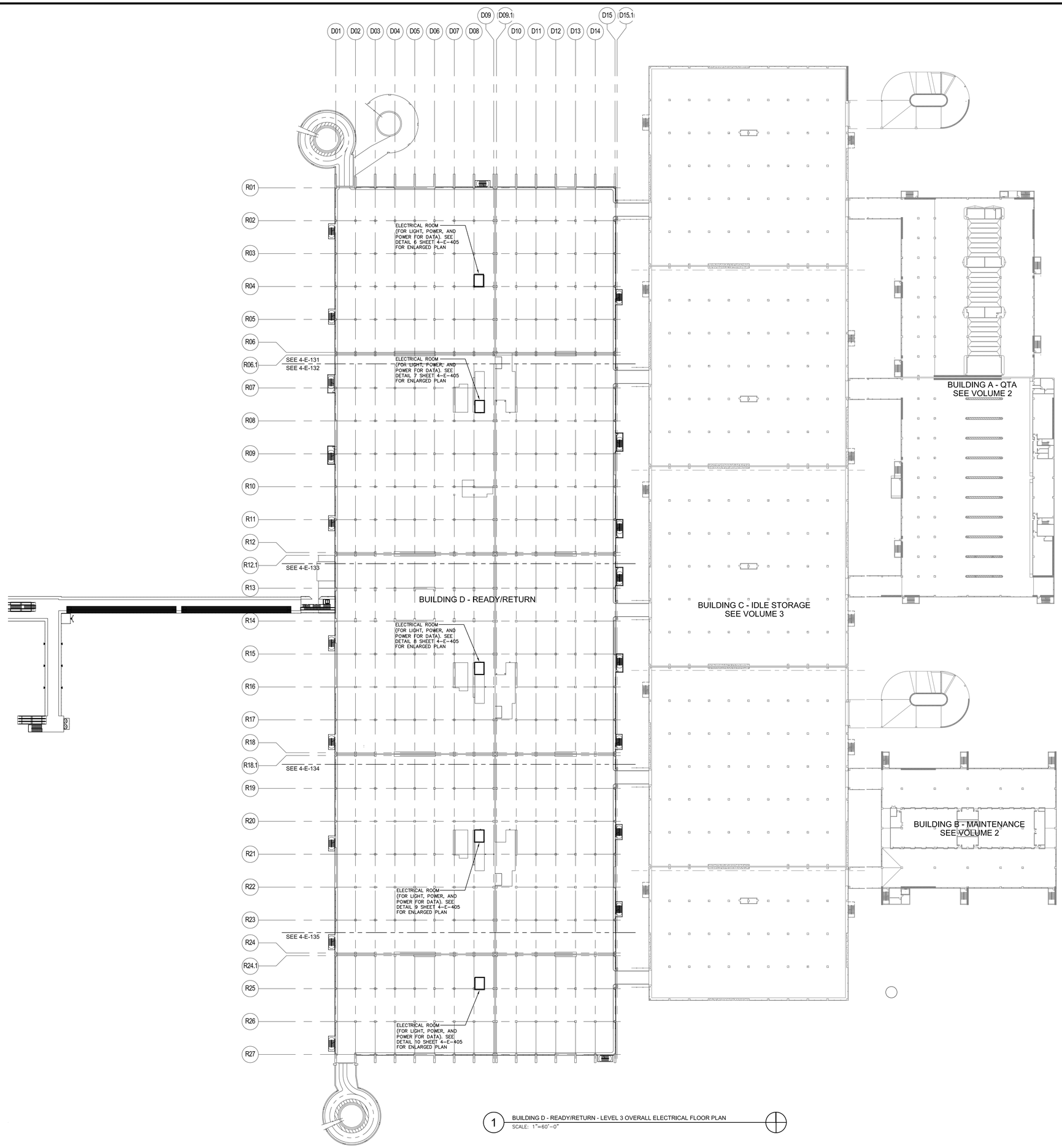

1 BUILDING D - READY/RETURN - LEVEL 3 OVERALL ELECTRICAL FLOOR PLAN
SCALE: 1"=60'-0"

KEY NOTES

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CHIEF AIRPORTS ENGINEER

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PMD LAX

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SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
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SHEET TITLE:
READY/RETURN
LEVEL 3 OVERALL
ELECTRICAL FLOOR PLAN

SHEET NO.
4-E-030
SHEET OF

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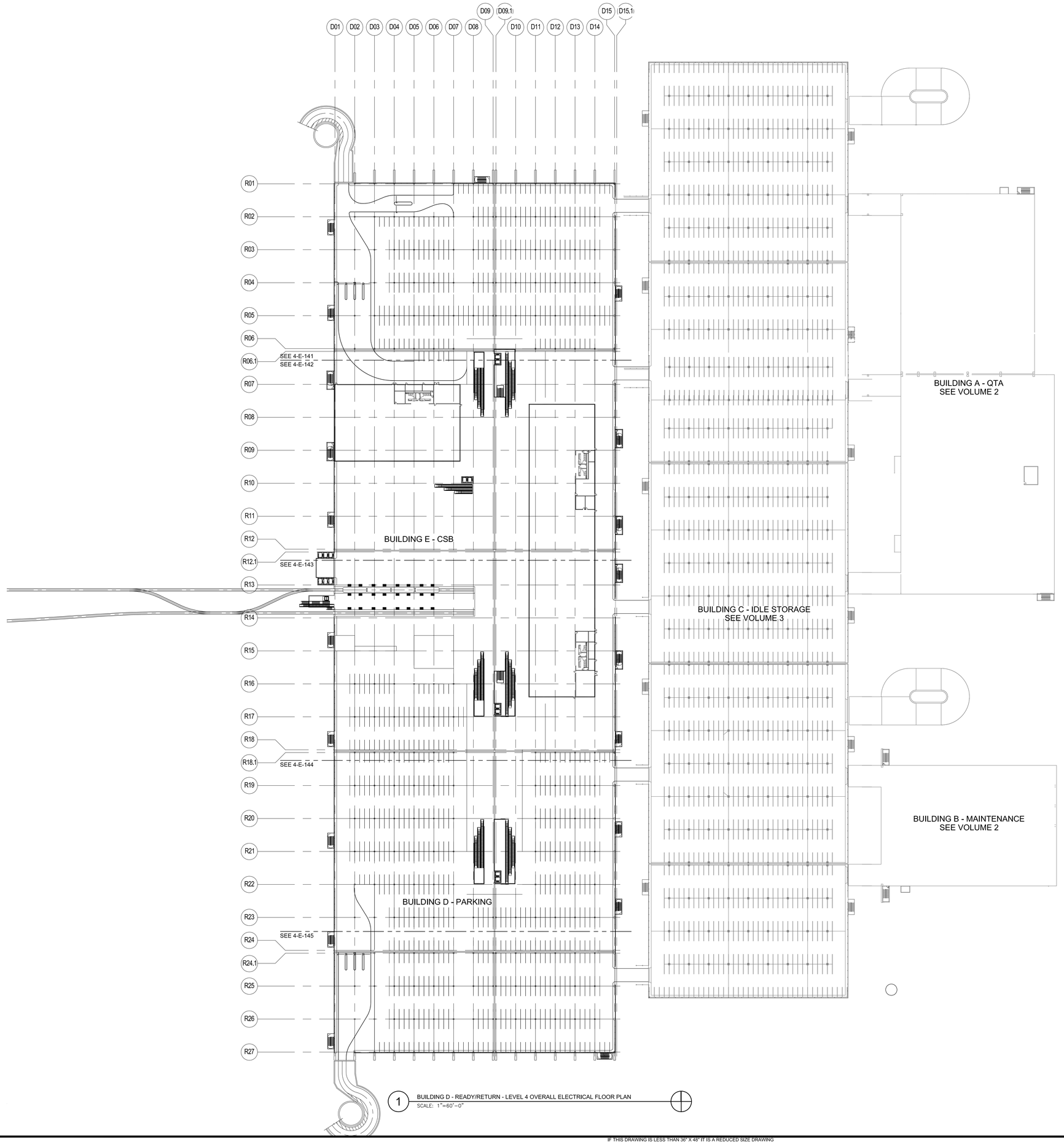
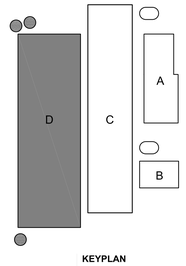


1 BUILDING D - READY/RETURN - LEVEL 4 OVERALL ELECTRICAL FLOOR PLAN
SCALE: 1"=60'-0"

KEY NOTES

1 XXXXXXX



KEYPLAN

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SHEET TITLE:

READY/RETURN
LEVEL 4 OVERALL
ELECTRICAL FLOOR PLAN

SHEET NO.

4-E-040

SHEET OF

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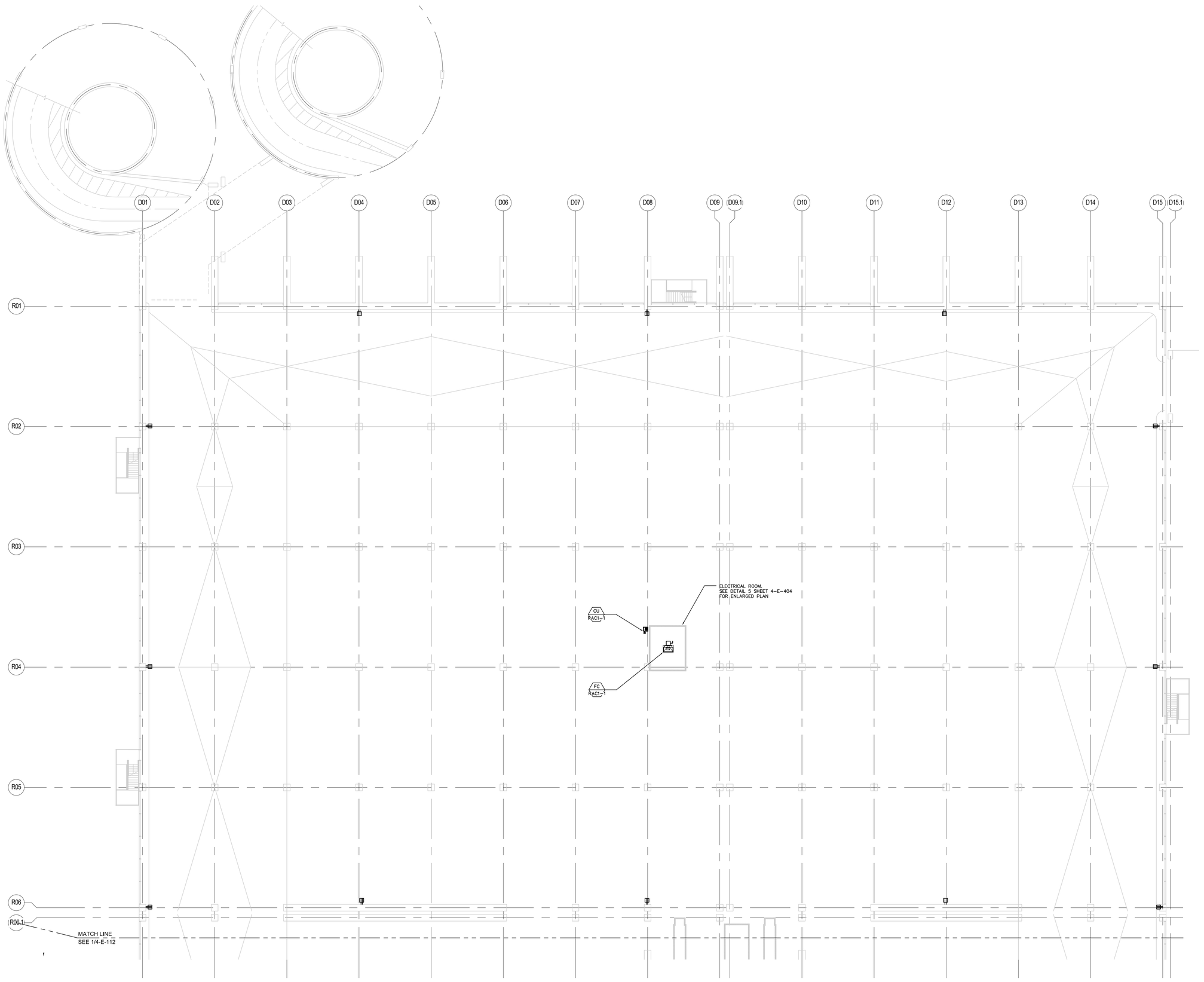

1 BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 1
SCALE: 1/16"=1'-0"

GENERAL NOTES

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TransSystems
801 South Grand
Suite 210
Los Angeles, California 90017
Phone: (562) 594-6974
Fax: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

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Voice: 626.914.0500
Fax: 626.605.0352
Proj. No.: 2210-0407-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY: ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY: CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

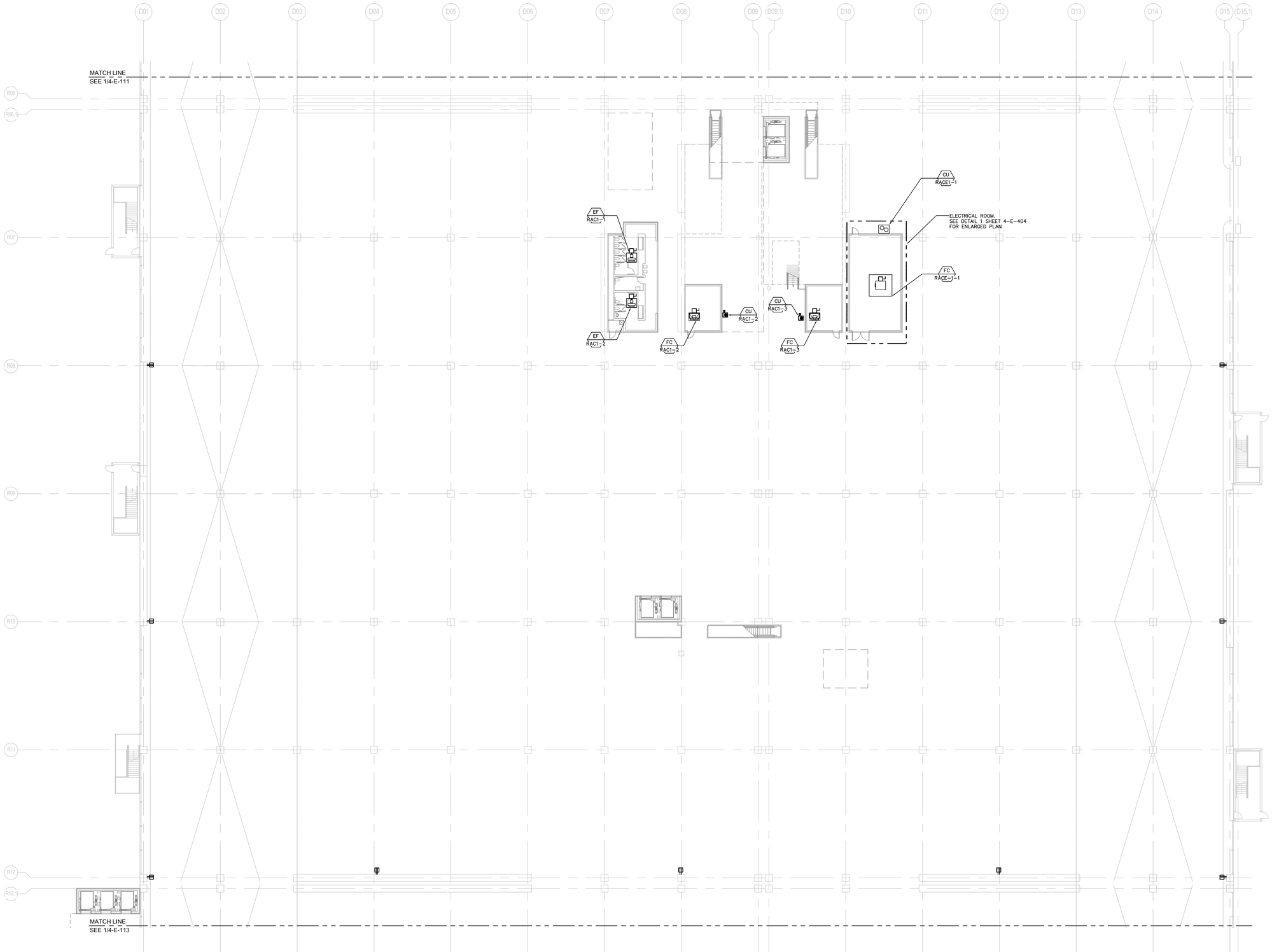
READY/RETURN
LEVEL 1 ELECTRICAL
FLOOR PLAN - ZONE 1

SHEET NO.
4-E-111

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

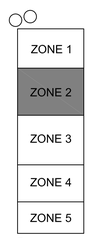
P:\2015\2015-087-XX\MPE-Vol-04_READY_RETURN\DA4881-4-E-111_LTD.dwg, Plotted: Jun 29, 2016 - 6:17pm



1 BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 2

SCALE: 1/16"=1'-0"

GENERAL NOTES



BUILDING D KEYPLAN

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Fax: (562) 594-6975

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CONSULTANTS:

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Proj. No.: 2210-0047-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 1 ELECTRICAL
FLOOR PLAN - ZONE 2

SHEET NO.

4-E-112

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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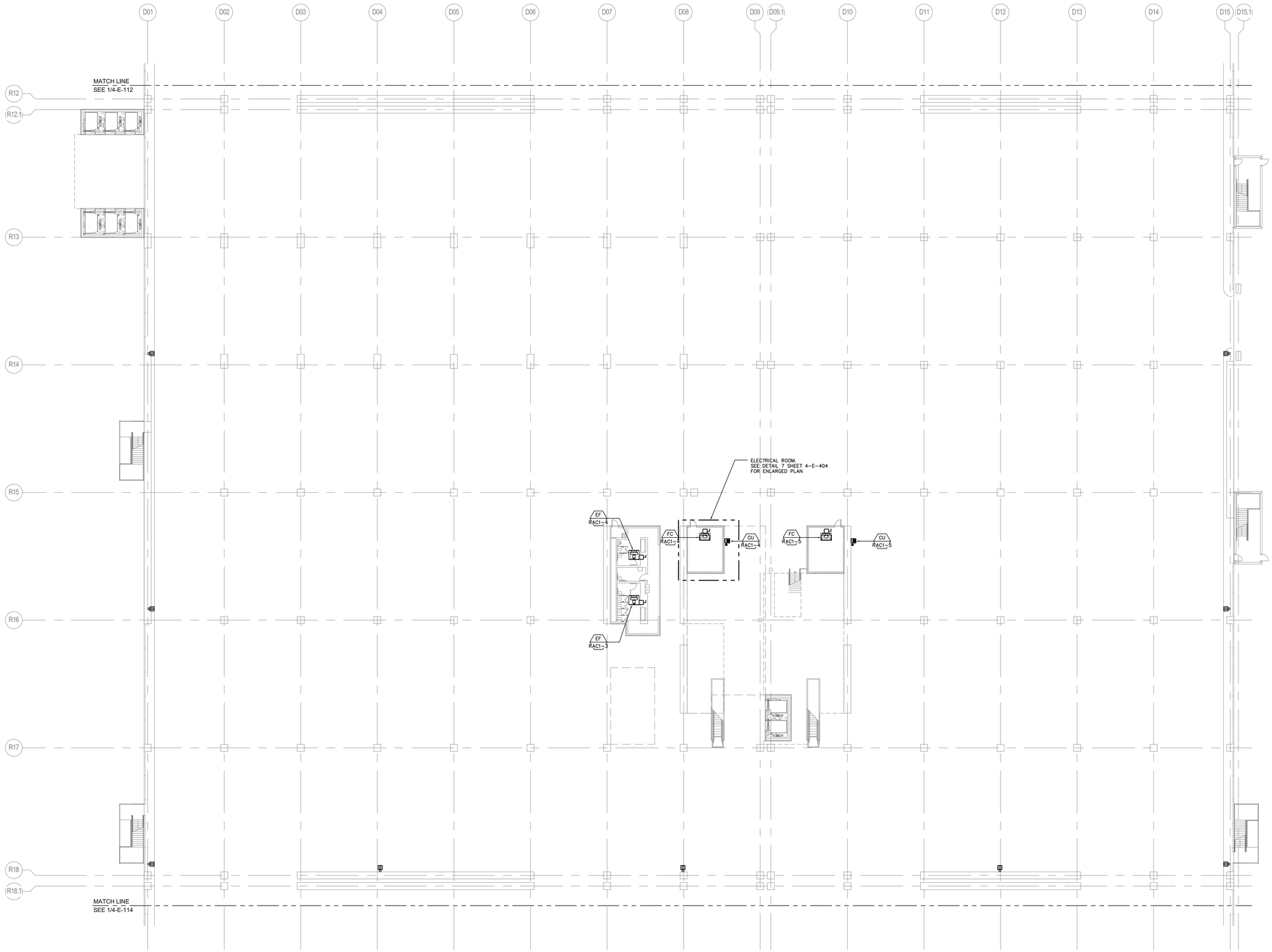

1 BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 3
SCALE: 1/16"=1'-0"

GENERAL NOTES

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT ANA
PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 1 ELECTRICAL
FLOOR PLAN - ZONE 3

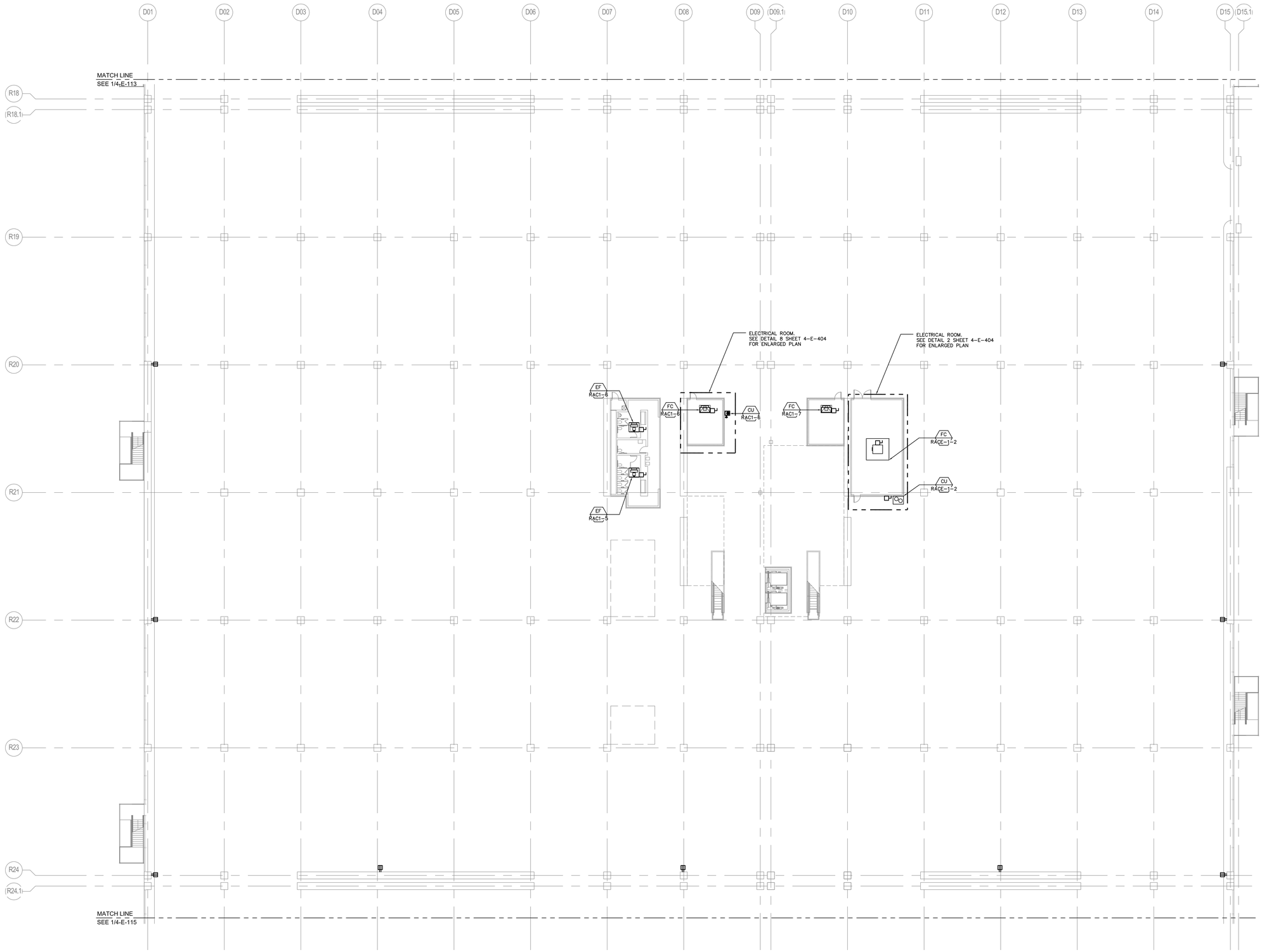
SHEET NO.
4-E-113

SHEET OF

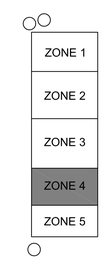
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\2015-067-00\MPS-Vol-04_READY_RETURN\DA4881-4-E-113_LD.dwg Plotted: Jun 29, 2016 - 6:10pm

GENERAL NOTES



1 BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 4
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY
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APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

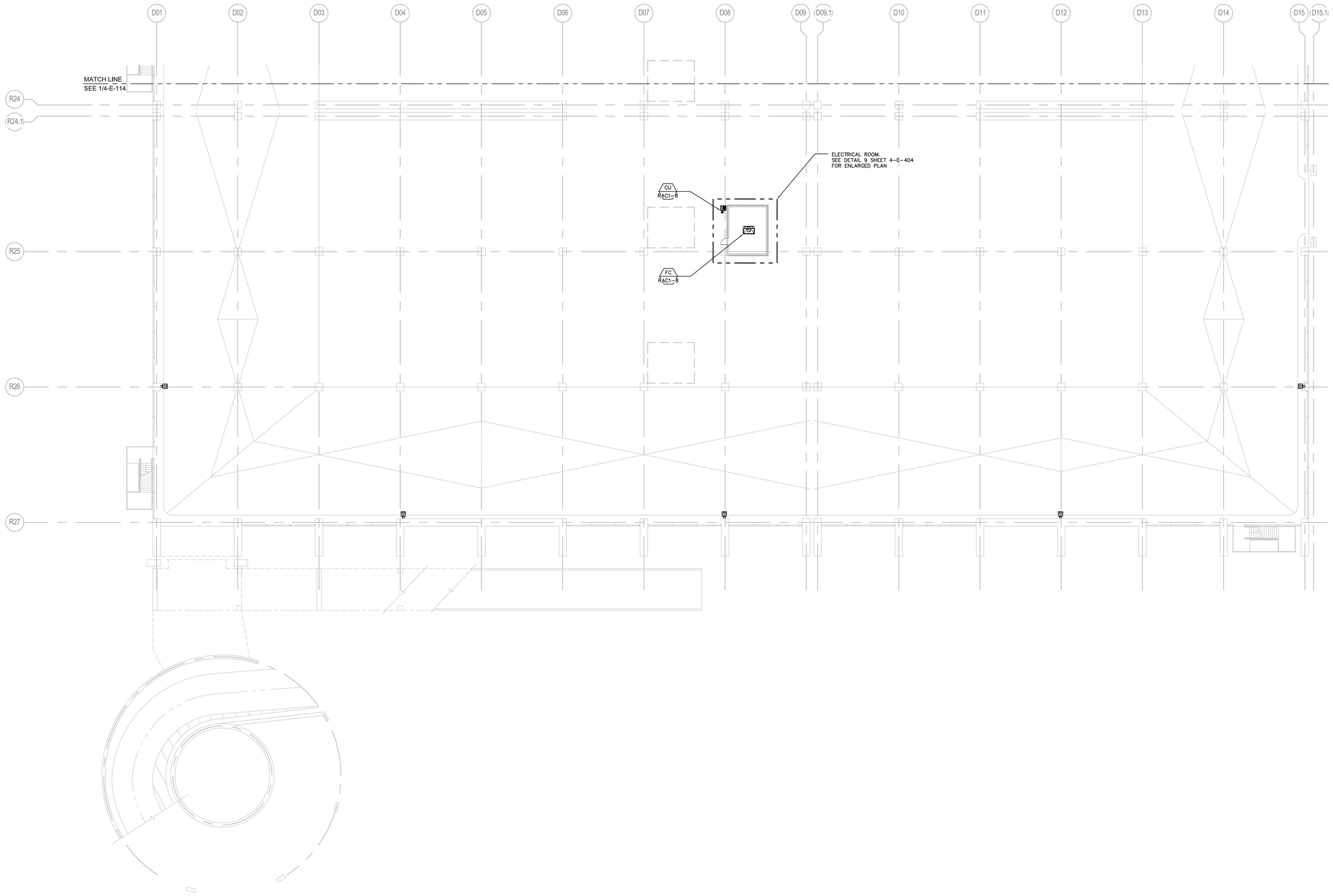
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

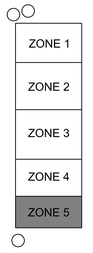
SHEET TITLE:
READY/RETURN
LEVEL 1 ELECTRICAL
FLOOR PLAN - ZONE 4

SHEET NO.
4-E-114
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 1 ELECTRICAL FLOOR PLAN - ZONE 5
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

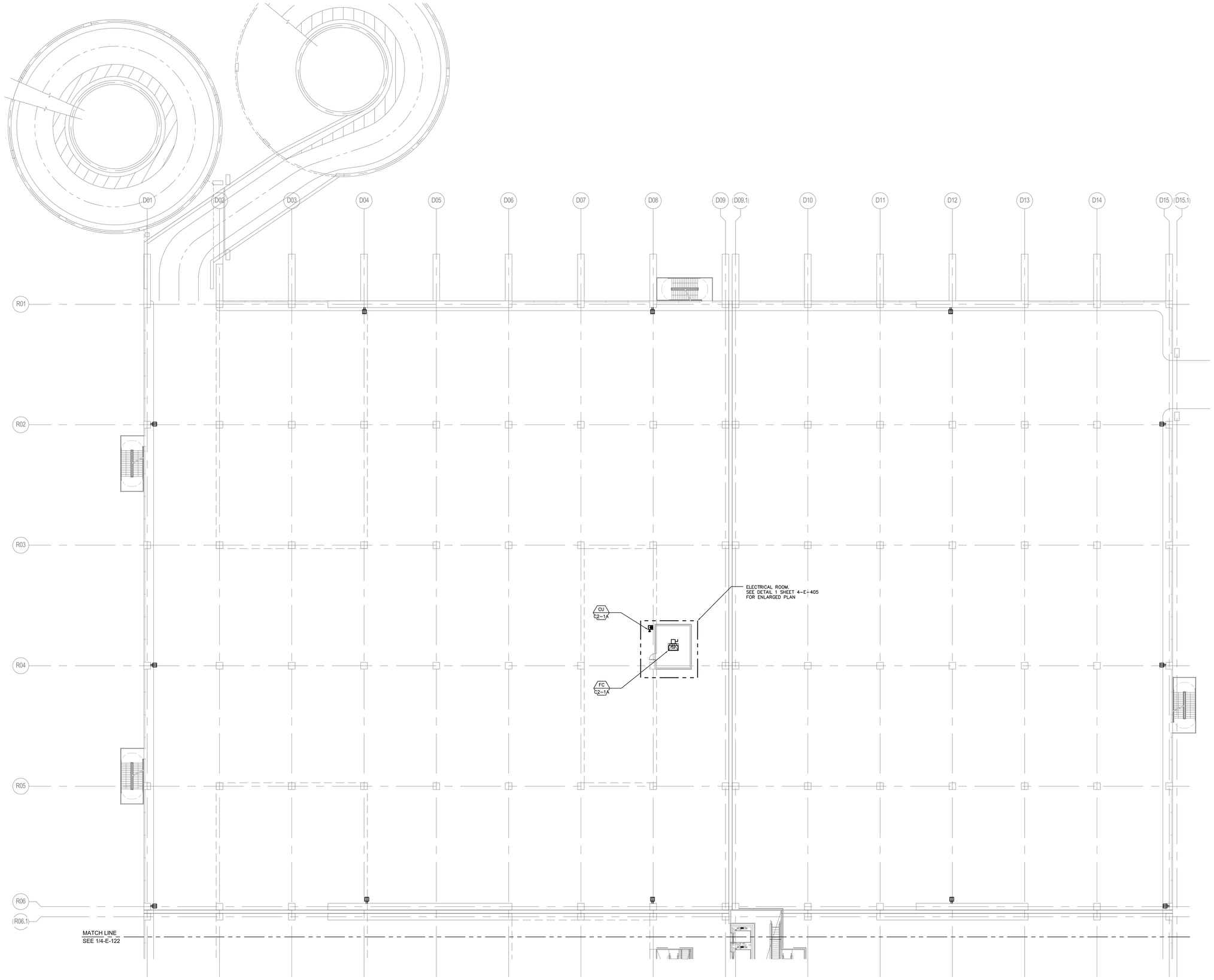
SHEET TITLE:

READY/RETURN
LEVEL 1 ELECTRICAL
FLOOR PLAN - ZONE 5

SHEET NO.
4-E-115

SHEET OF

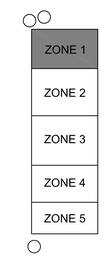
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 1

SCALE: 1/16"=1'-0"

GENERAL NOTES



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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Los Angeles International Airport

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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

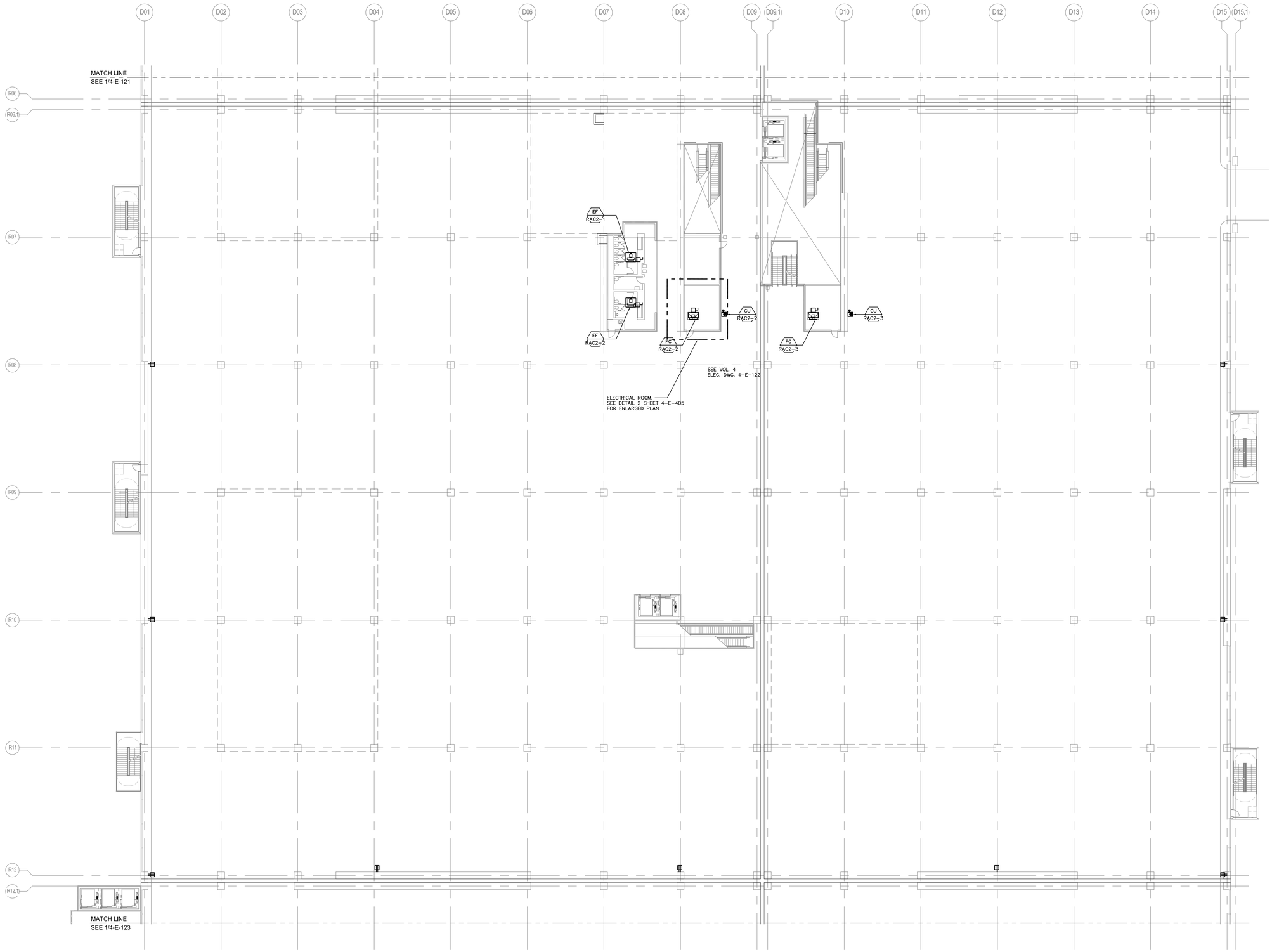
READY/RETURN
LEVEL 2 ELECTRICAL
FLOOR PLAN - ZONE 1

SHEET NO.

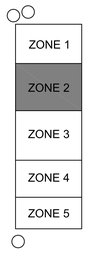
4-E-121

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 2
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Proj. No.: 2015-067-00

Los Angeles World Airports
Project
LAX Consolidated Rental Car Facility
Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONT
PMD
LAX
ANA

REVISIONS:

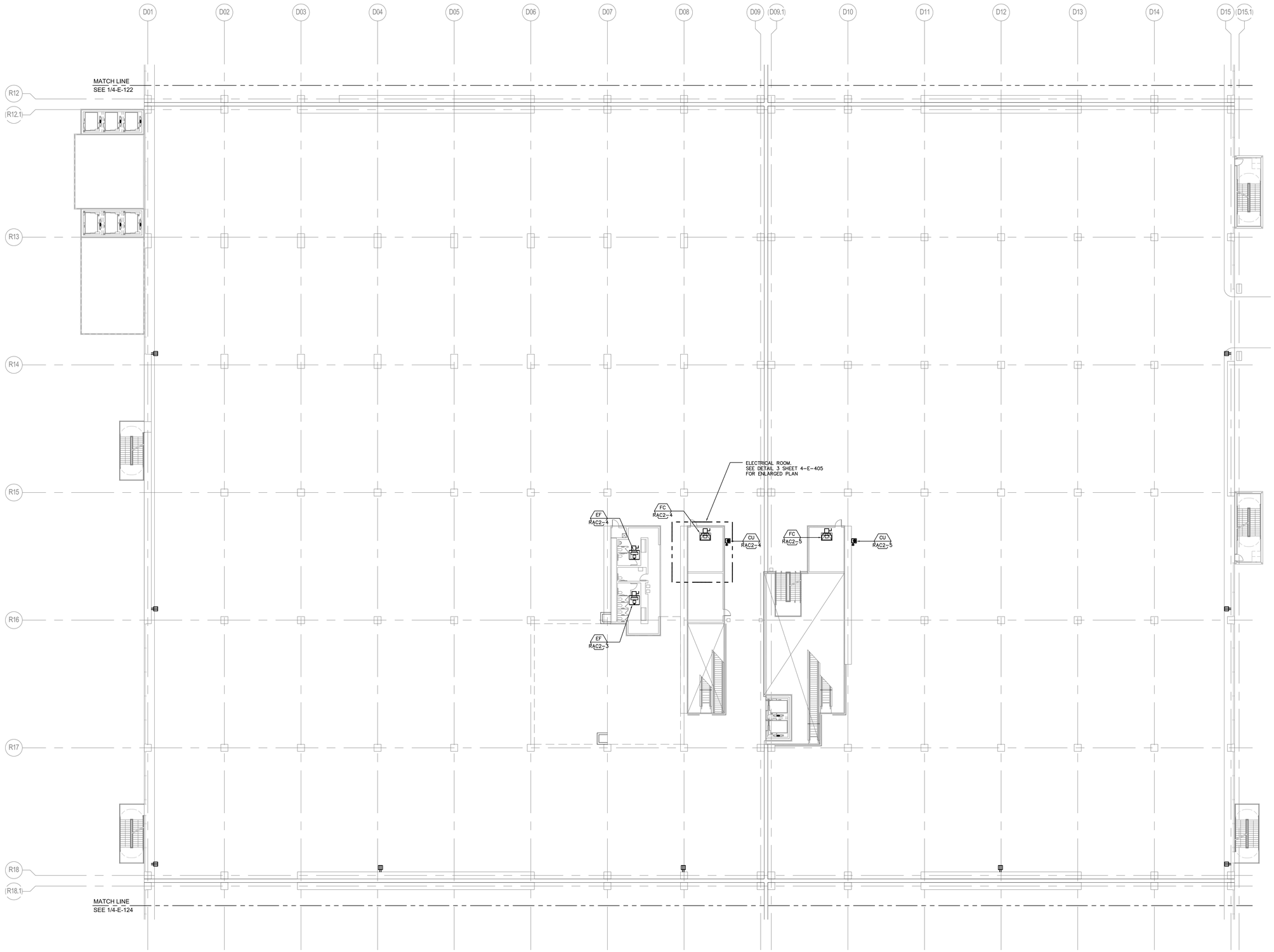
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

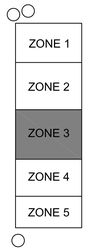
SHEET TITLE:
READY/RETURN
LEVEL 2 ELECTRICAL
FLOOR PLAN - ZONE 2

SHEET NO.
4-E-122
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 3
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Los Angeles, California 90017
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Fax: (562) 594-6975

NOT FOR CONSTRUCTION

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GLENDORA, CA 91740
Voice: 626.650.0350
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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

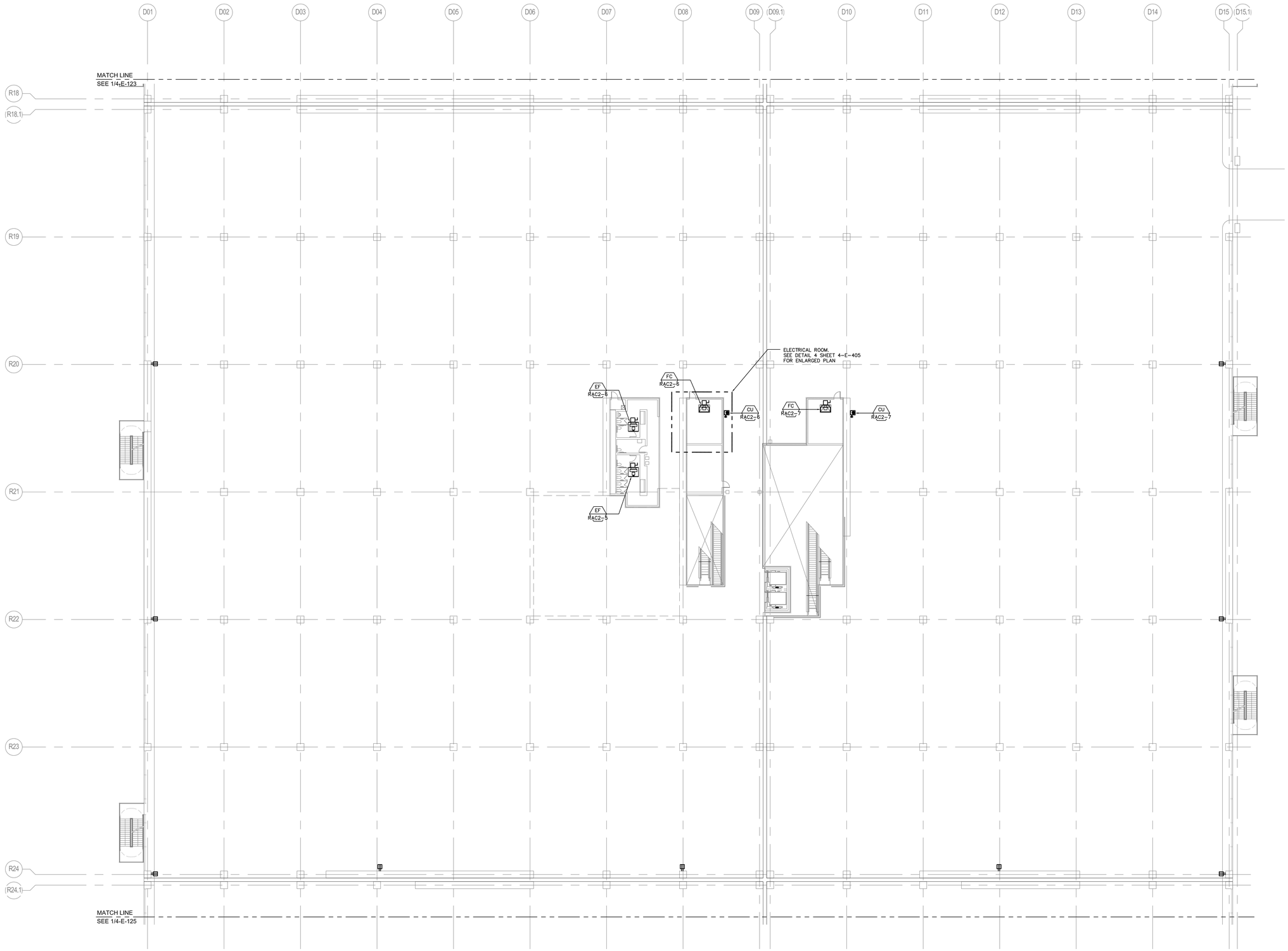
PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

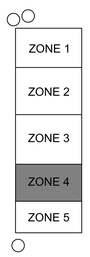
READY/RETURN
LEVEL 2 ELECTRICAL
FLOOR PLAN - ZONE 3

SHEET NO.
4-E-123
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 4
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Fax: (562) 594-6975

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

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APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

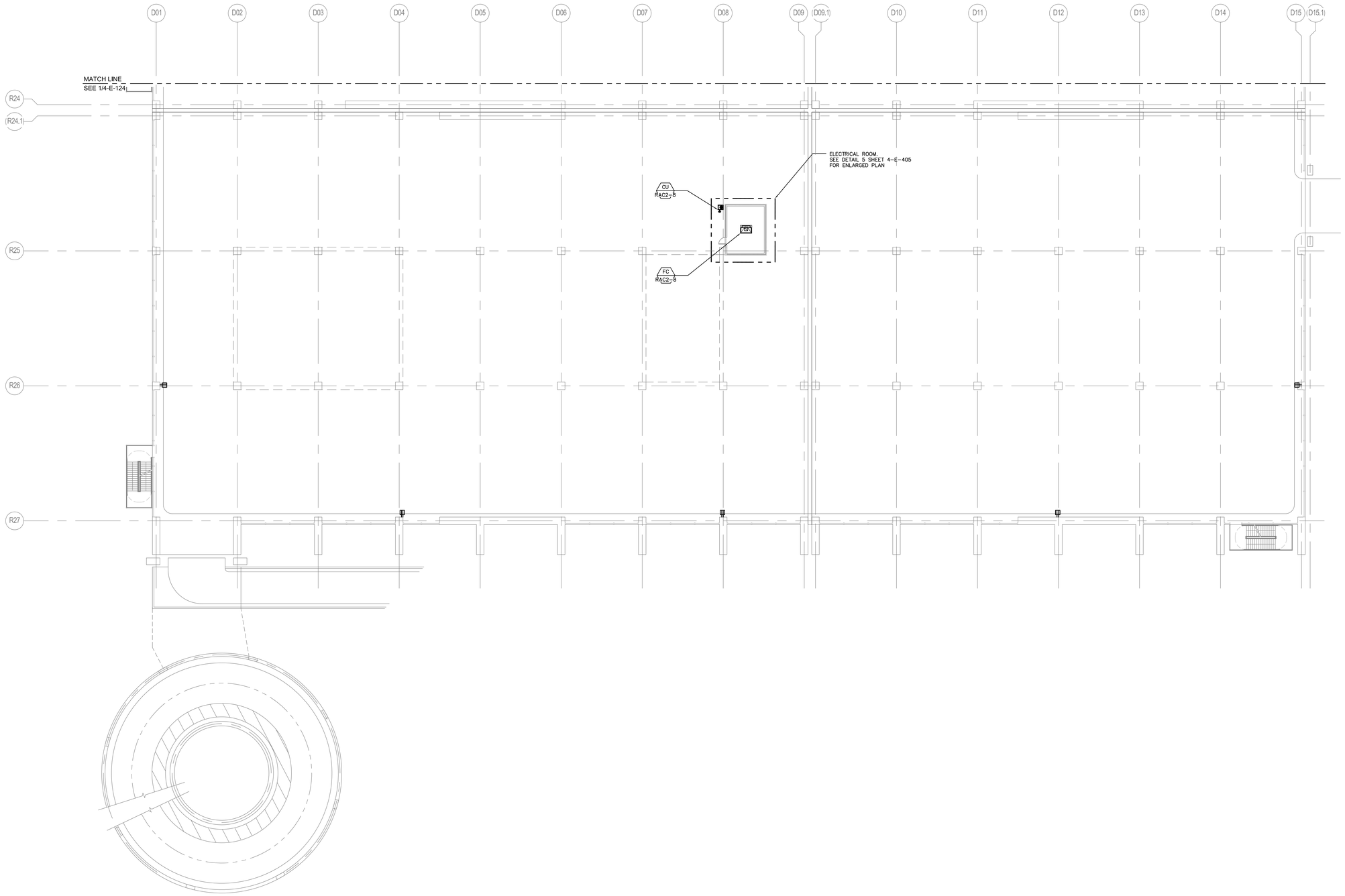
PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

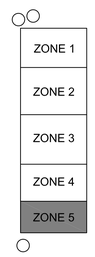
READY/RETURN
LEVEL 2 ELECTRICAL
FLOOR PLAN - ZONE 4

SHEET NO.
4-E-124
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 2 ELECTRICAL FLOOR PLAN - ZONE 5
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

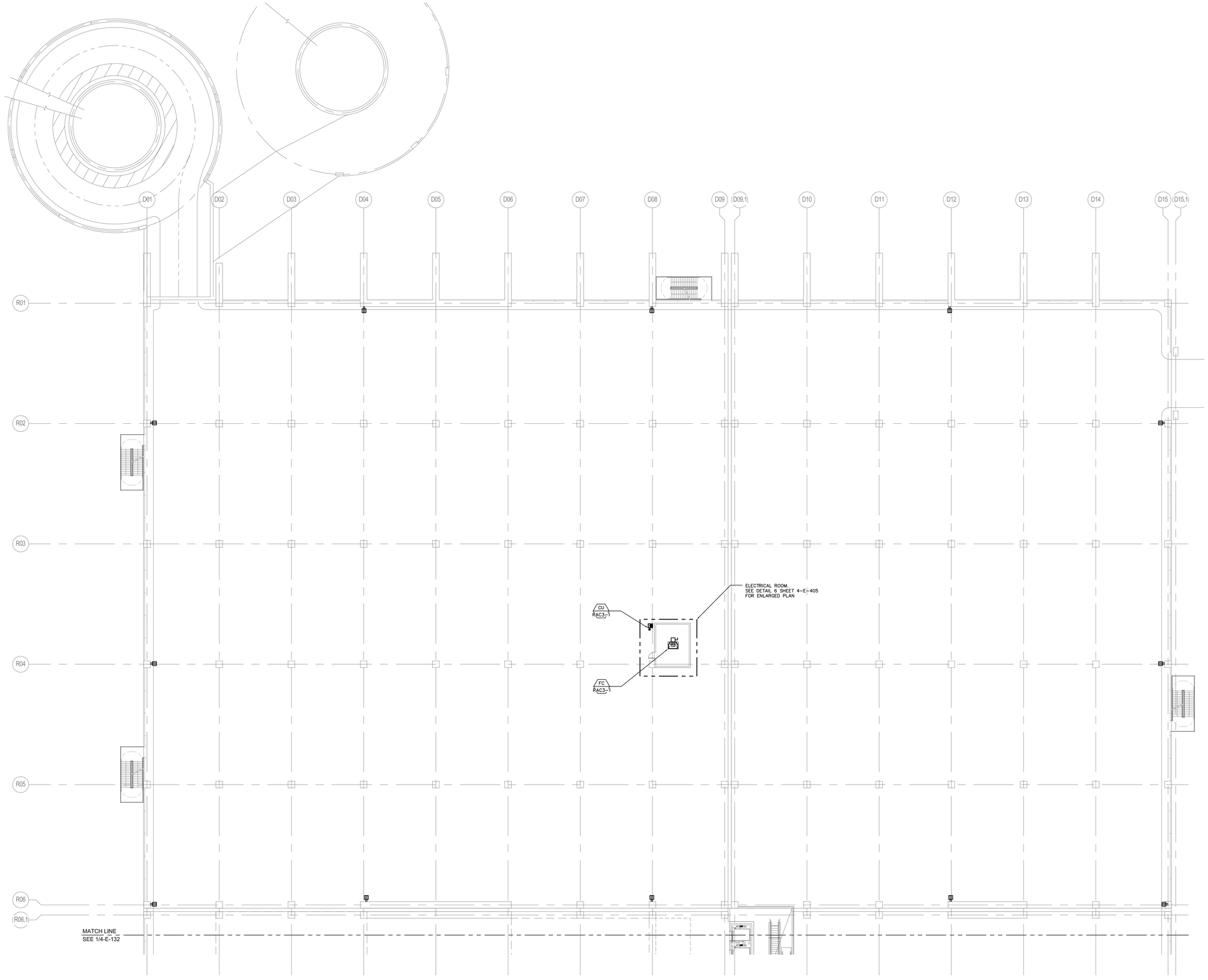
SHEET TITLE:

READY/RETURN
LEVEL 2 ELECTRICAL
FLOOR PLAN - ZONE 5

SHEET NO.
4-E-125

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 1
SCALE: 1/16"=1'-0"

GENERAL NOTES

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

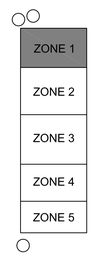
MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

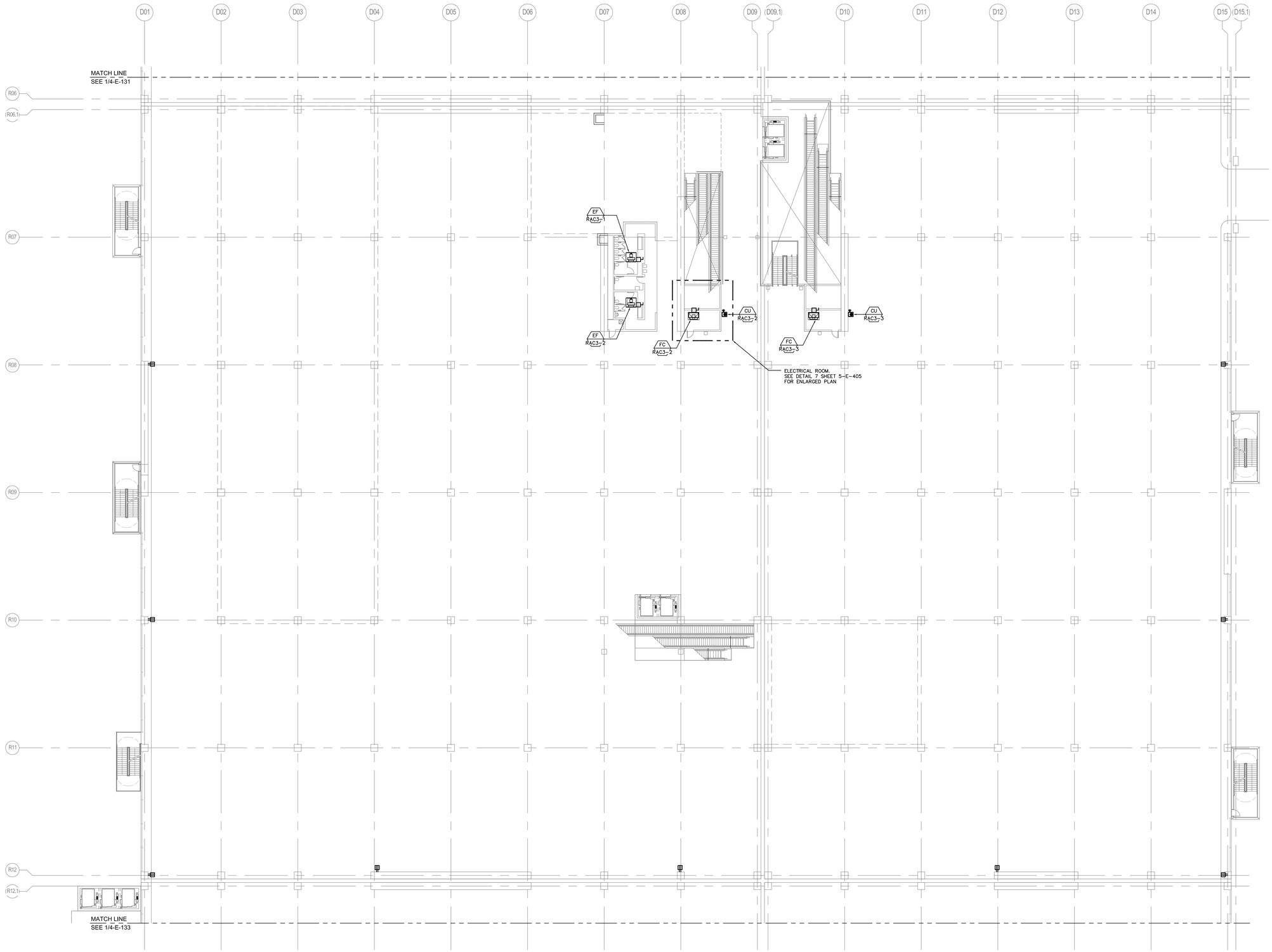
READY/RETURN
LEVEL 3 ELECTRICAL
FLOOR PLAN - ZONE 1

SHEET NO.
4-E-131
SHEET OF

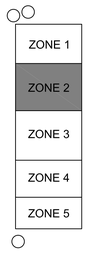


BUILDING D KEYPLAN

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 2
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

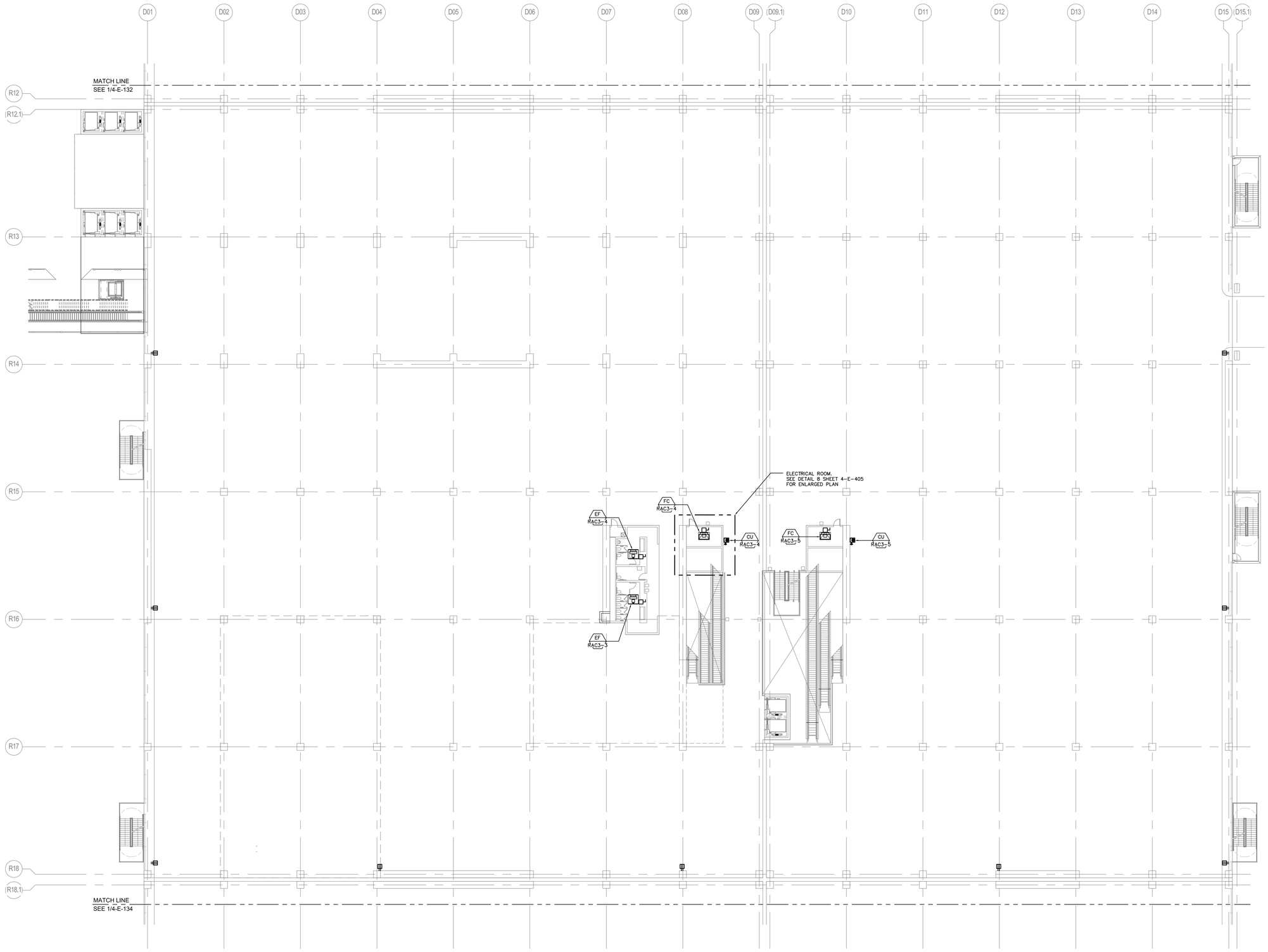
SHEET TITLE:

READY/RETURN
LEVEL 3 ELECTRICAL
FLOOR PLAN - ZONE 2

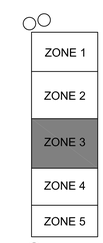
SHEET NO.
4-E-132
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

GENERAL NOTES



1 BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 3
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

TranSystems
801 South Grand
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Fax: (562) 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:

PBS ENGINEERS
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Voice: 626.650.0350
Fax: 626.650.0352
Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANY PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

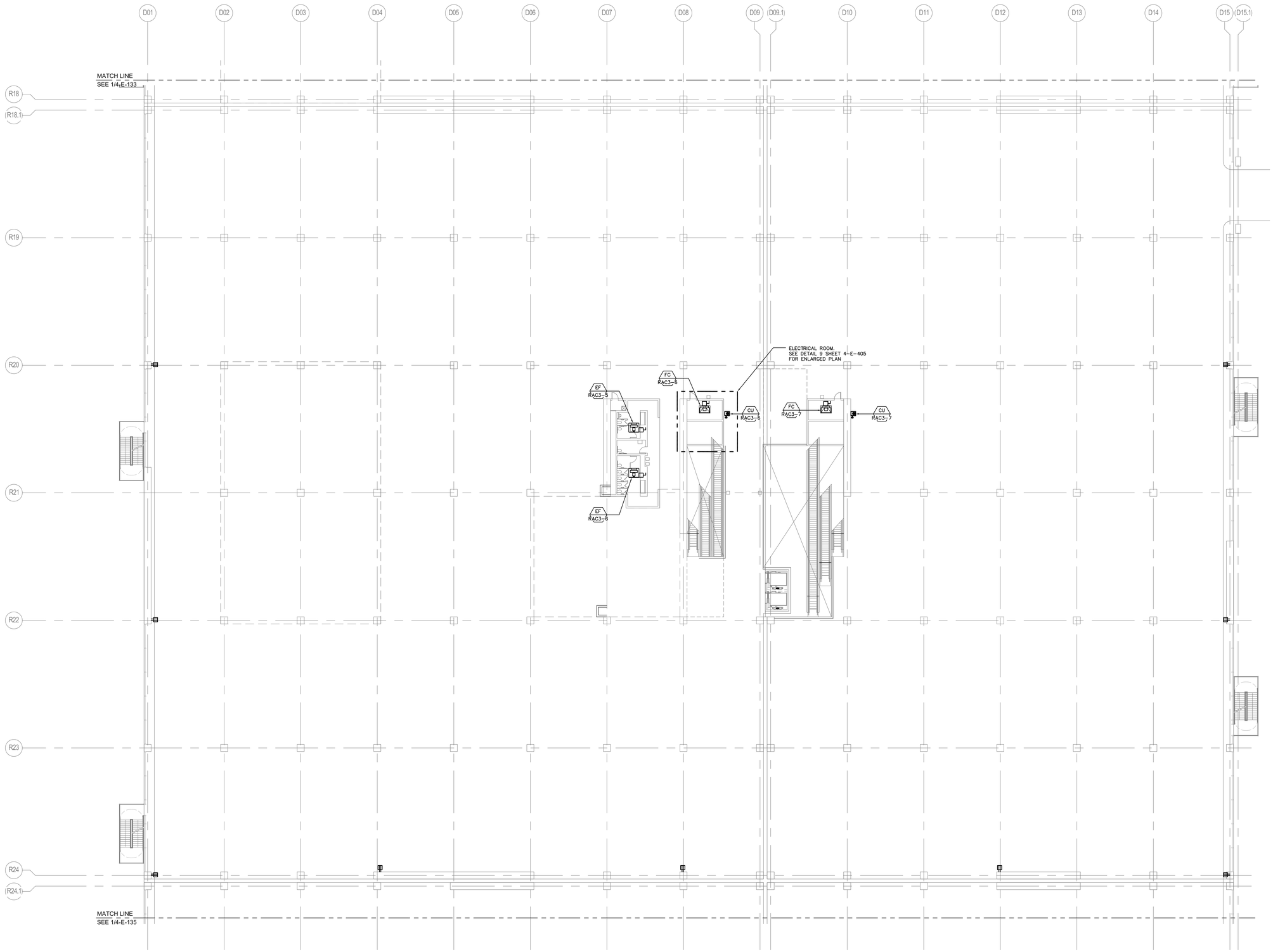
SHEET TITLE:

READY/RETURN
LEVEL 3 ELECTRICAL
FLOOR PLAN - ZONE 3

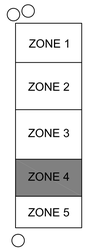
SHEET NO.
4-E-133
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

P:\2015\067-00\MFE-Vol-04_READY_RETURN\DA4881-4-E-133_30.dwg, Plotted: Jun 29, 2016 - 6:19pm



1 BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 4
SCALE: 1/16"=1'-0"



BUILDING D KEYPLAN

GENERAL NOTES

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APPROVED BY

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ONT ANA PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

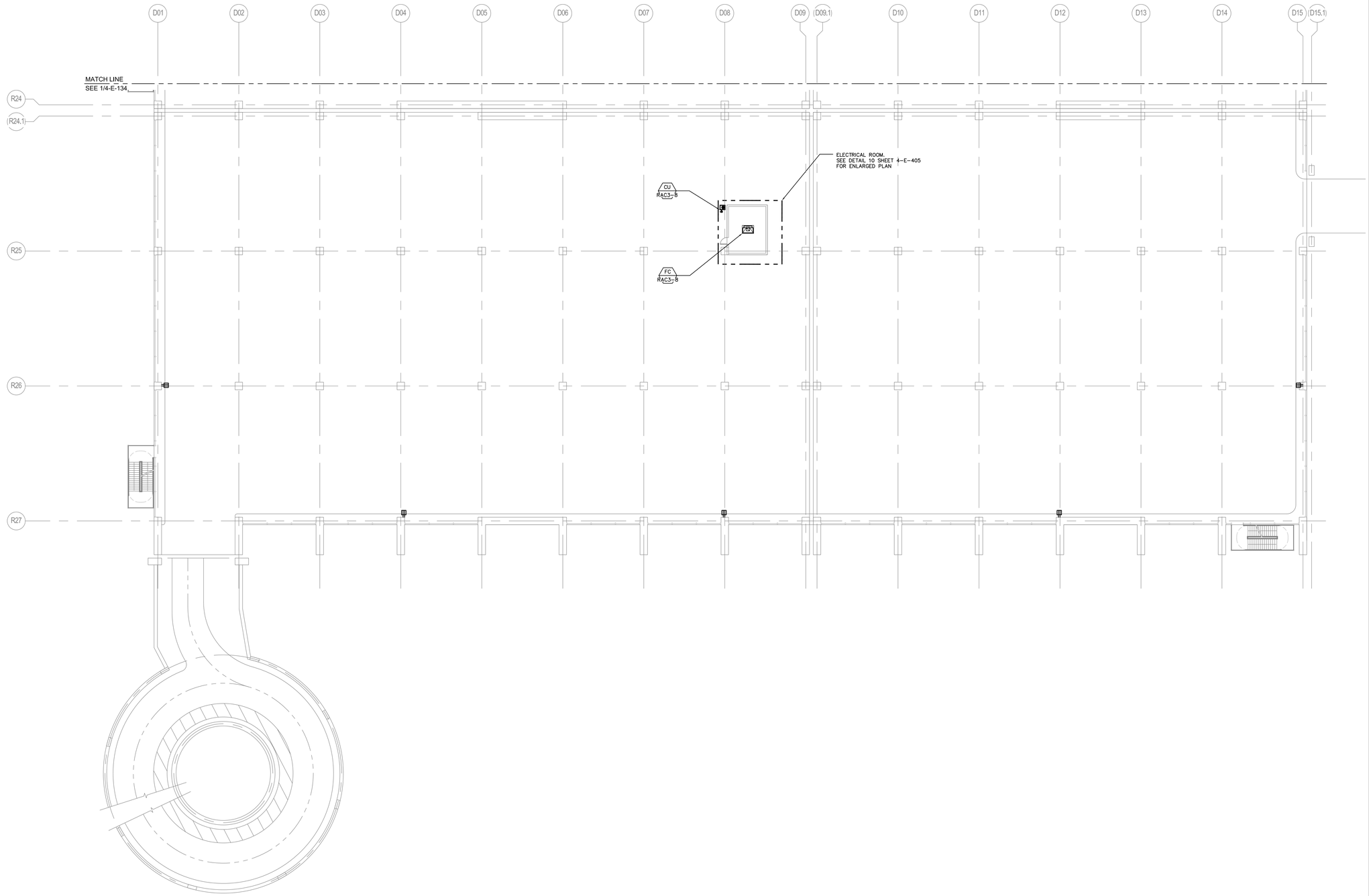
PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 3 ELECTRICAL
FLOOR PLAN - ZONE 4

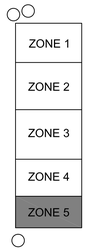
SHEET NO.
4-E-134
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 3 ELECTRICAL FLOOR PLAN - ZONE 5
SCALE: 1/16"=1'-0"

GENERAL NOTES



BUILDING D KEYPLAN

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APPROVED BY

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REVISIONS:

MARK	DATE	DESCRIPTION

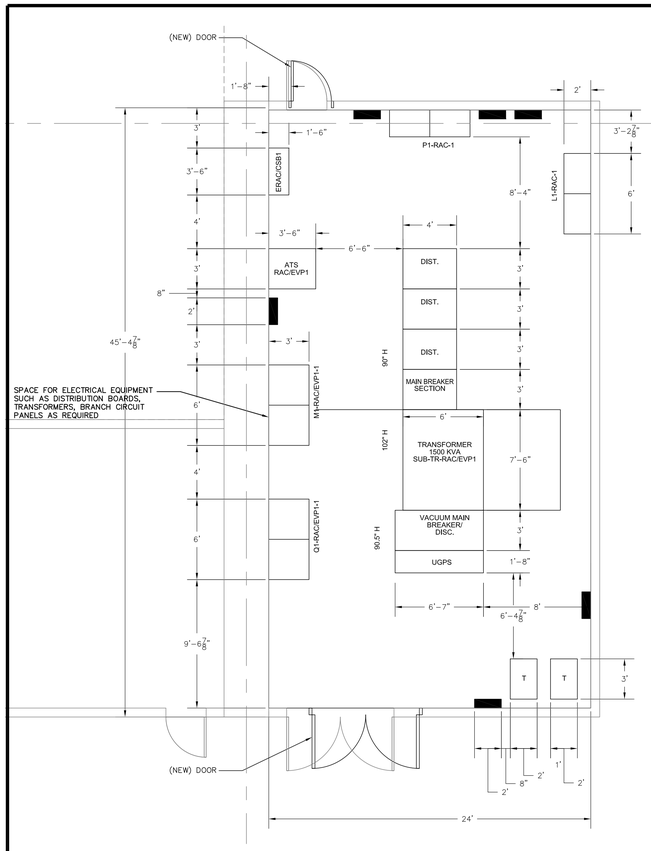
PROJ NO: DA4881
SCALE: 1/16"=1'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 3 ELECTRICAL
FLOOR PLAN - ZONE 5

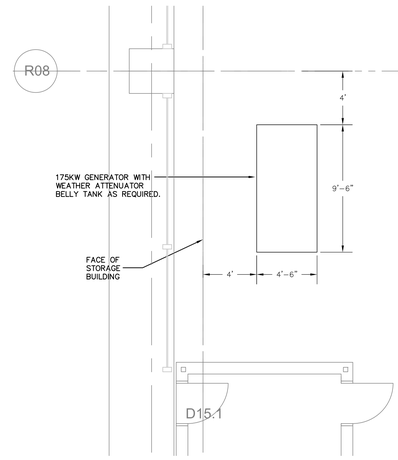
SHEET NO.
4-E-135
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



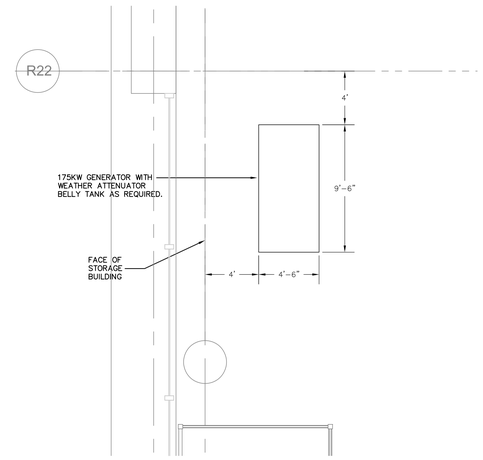
1 MAIN ELECTRICAL ROOM "SUB-TR-RAC/EVP1"

SCALE: 1/4"=1'-0"



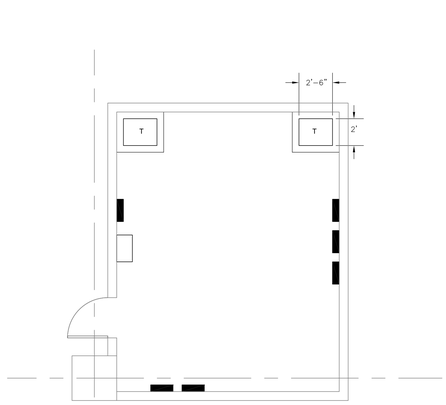
3 ERAC/CSB-1 EMERGENCY GENERATOR AND MAIN EMERGENCY DISTRIBUTION BOARD

SCALE: 1/4"=1'-0"



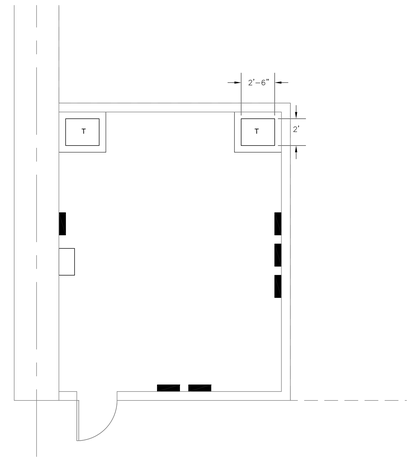
4 ERAC/CSB-2 EMERGENCY GENERATOR AND MAIN EMERGENCY DISTRIBUTION BOARD

SCALE: 1/4"=1'-0"



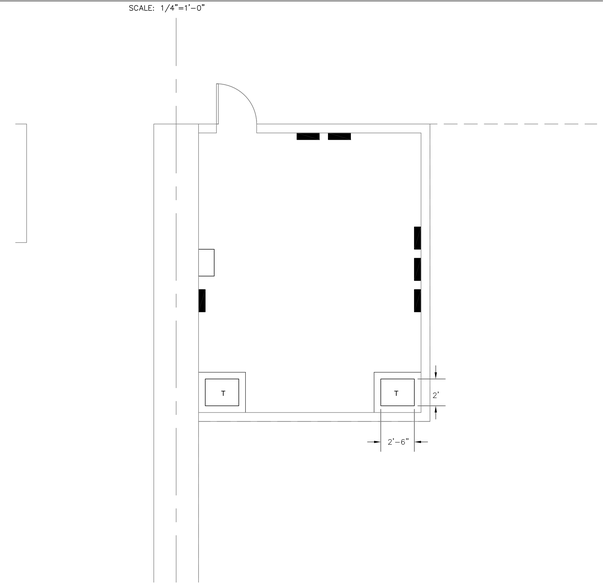
5 ENLARGED ELECTRICAL ROOM XXX

SCALE: 1/4"=1'-0"



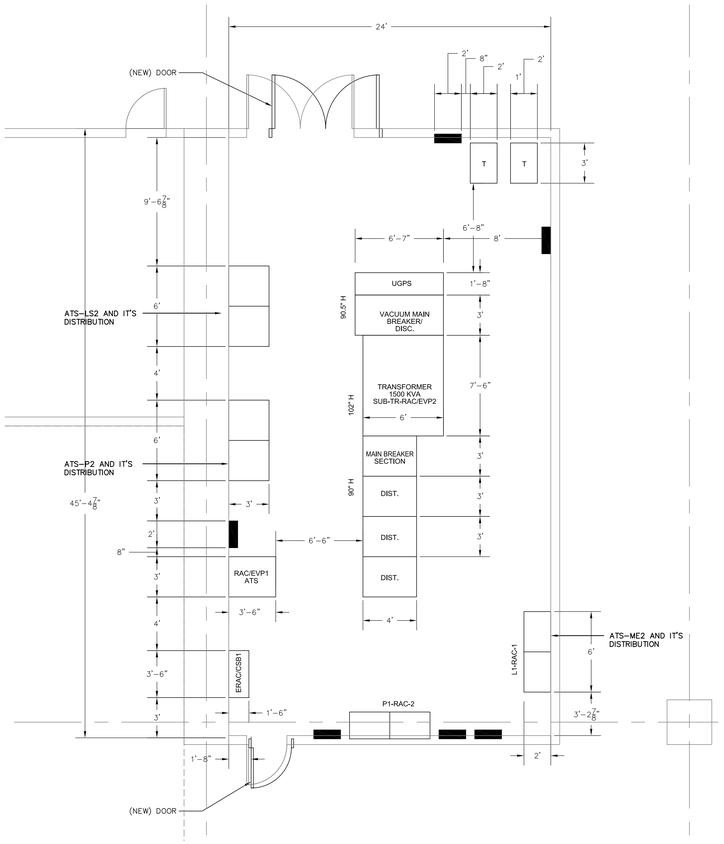
6 ENLARGED ELECTRICAL ROOM XXX

SCALE: 1/4"=1'-0"



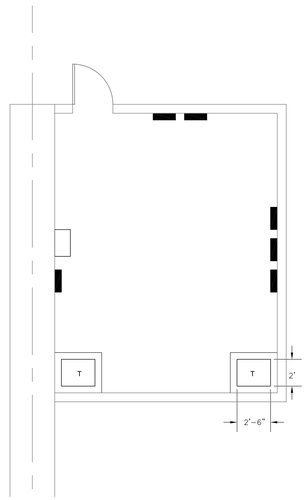
7 ENLARGED ELECTRICAL ROOM XXX

SCALE: 1/4"=1'-0"



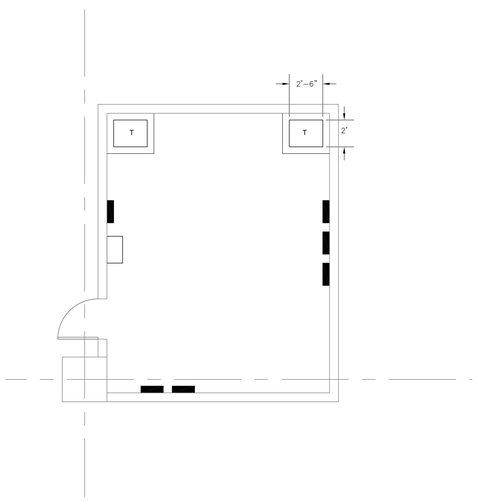
2 MAIN ELECTRICAL ROOM "SUB-TR-RAC/EVP2"

SCALE: 1/4"=1'-0"



8 ENLARGED ELECTRICAL ROOM XXX

SCALE: 1/4"=1'-0"



9 ENLARGED ELECTRICAL ROOM XXX

SCALE: 1/4"=1'-0"

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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: AS NOTED
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

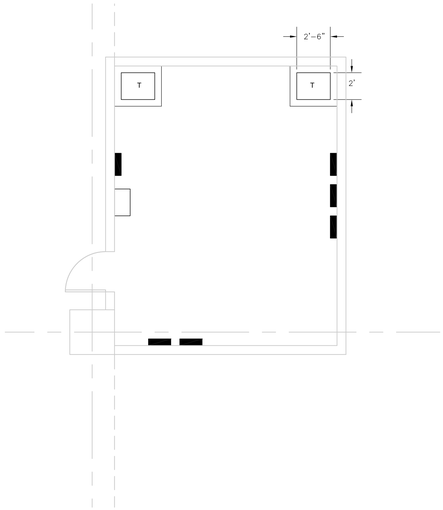
READY/RETURN ENLARGED ELECTRICAL ROOMS

SHEET NO.

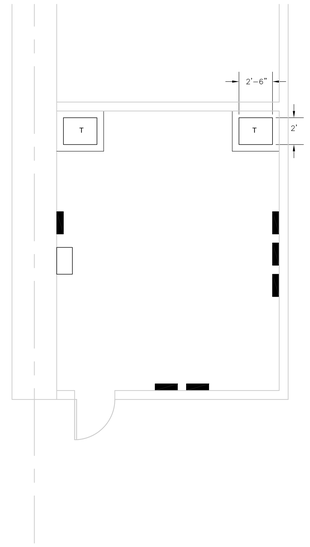
4-E-404

SHEET OF

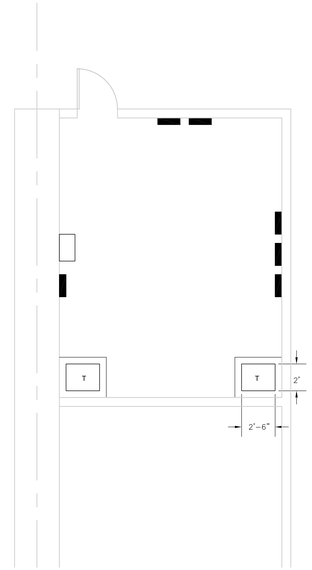
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



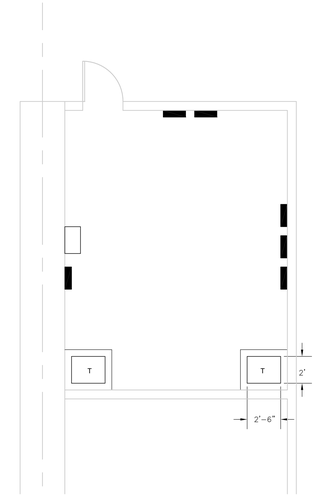
1 LEVEL 2 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



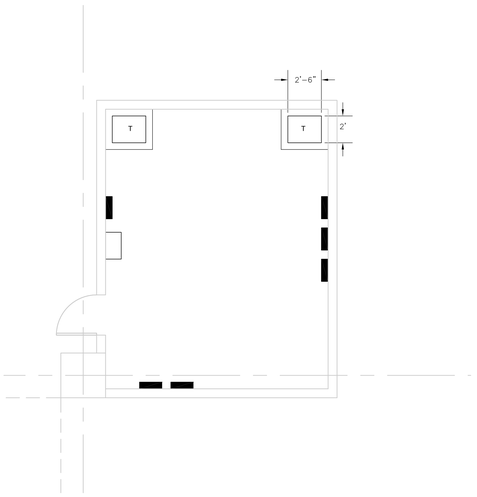
2 LEVEL 2 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



3 LEVEL 2 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



4 LEVEL 2 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



5 LEVEL 2 - ELECTRICAL ROOM
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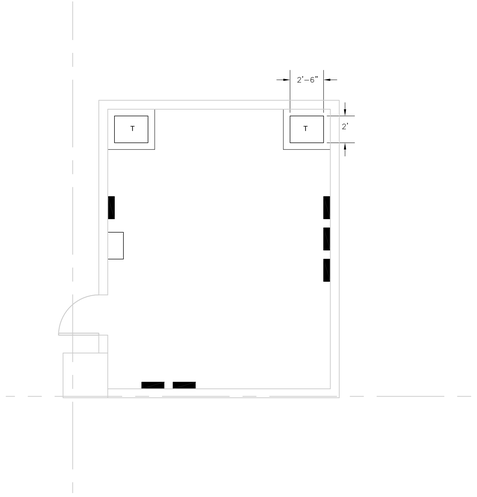

6 LEVEL 3 - ELECTRICAL ROOM
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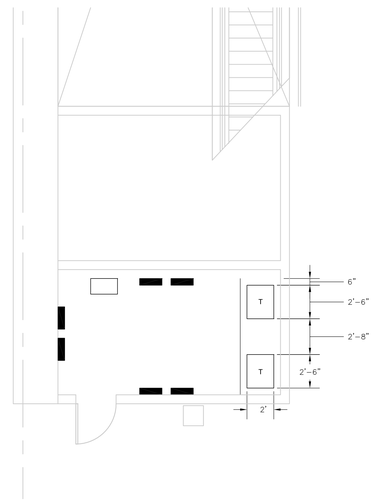
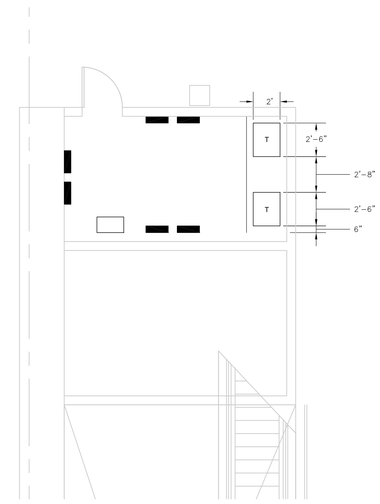
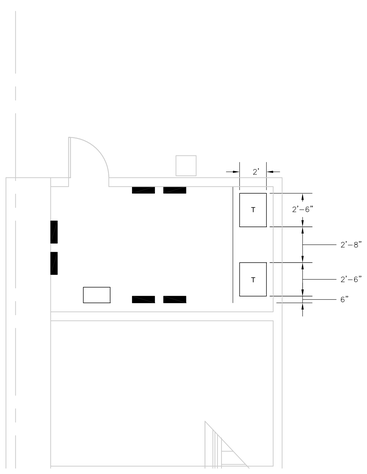


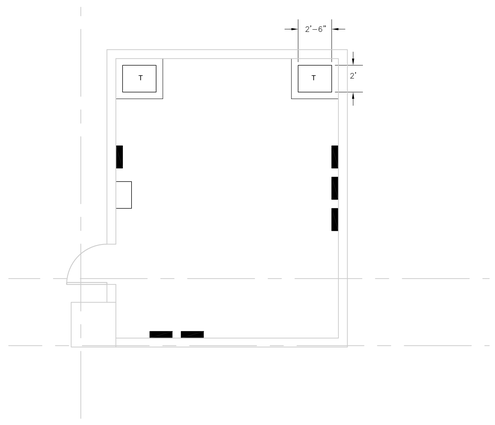
7 LEVEL 3 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



8 LEVEL 3 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



9 LEVEL 3 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



3 LEVEL 3 - ELECTRICAL ROOM
SCALE: 1/4"=1'-0"

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Proj. No.: 2015-067-00

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY
ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY
CHIEF AIRPORTS ENGINEER

ONE LAX PMD

REVISIONS:

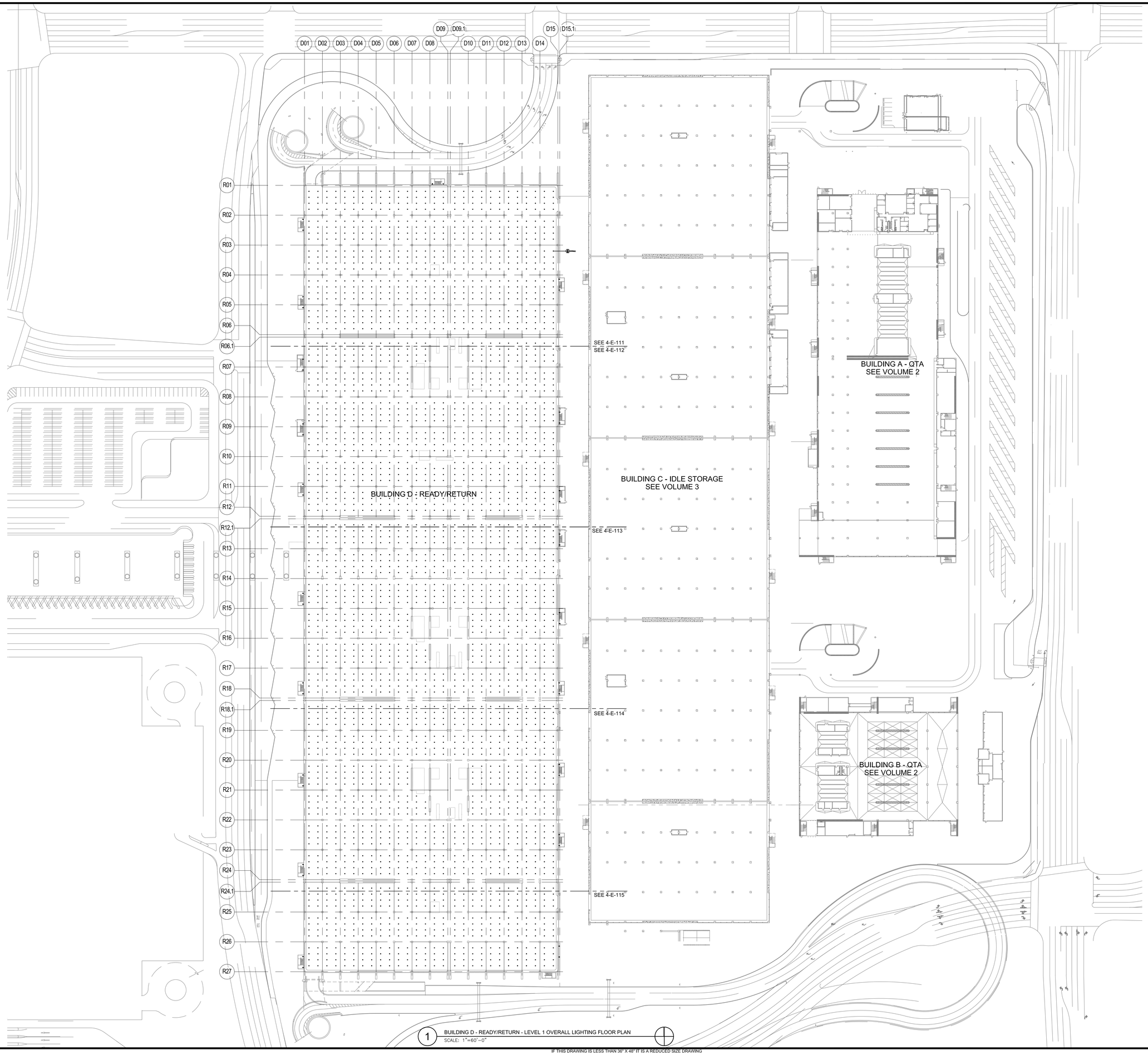
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: AS NOTED
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:
READY/RETURN ENLARGED ELECTRICAL ROOMS

SHEET NO.
4-E-405
SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

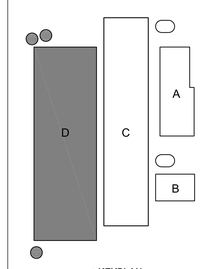


1 BUILDING D - READY/RETURN - LEVEL 1 OVERALL LIGHTING FLOOR PLAN
SCALE: 1"=60'-0"

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

KEY NOTES

1



KEYPLAN

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APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT ANA PMD LAX

REVISIONS:

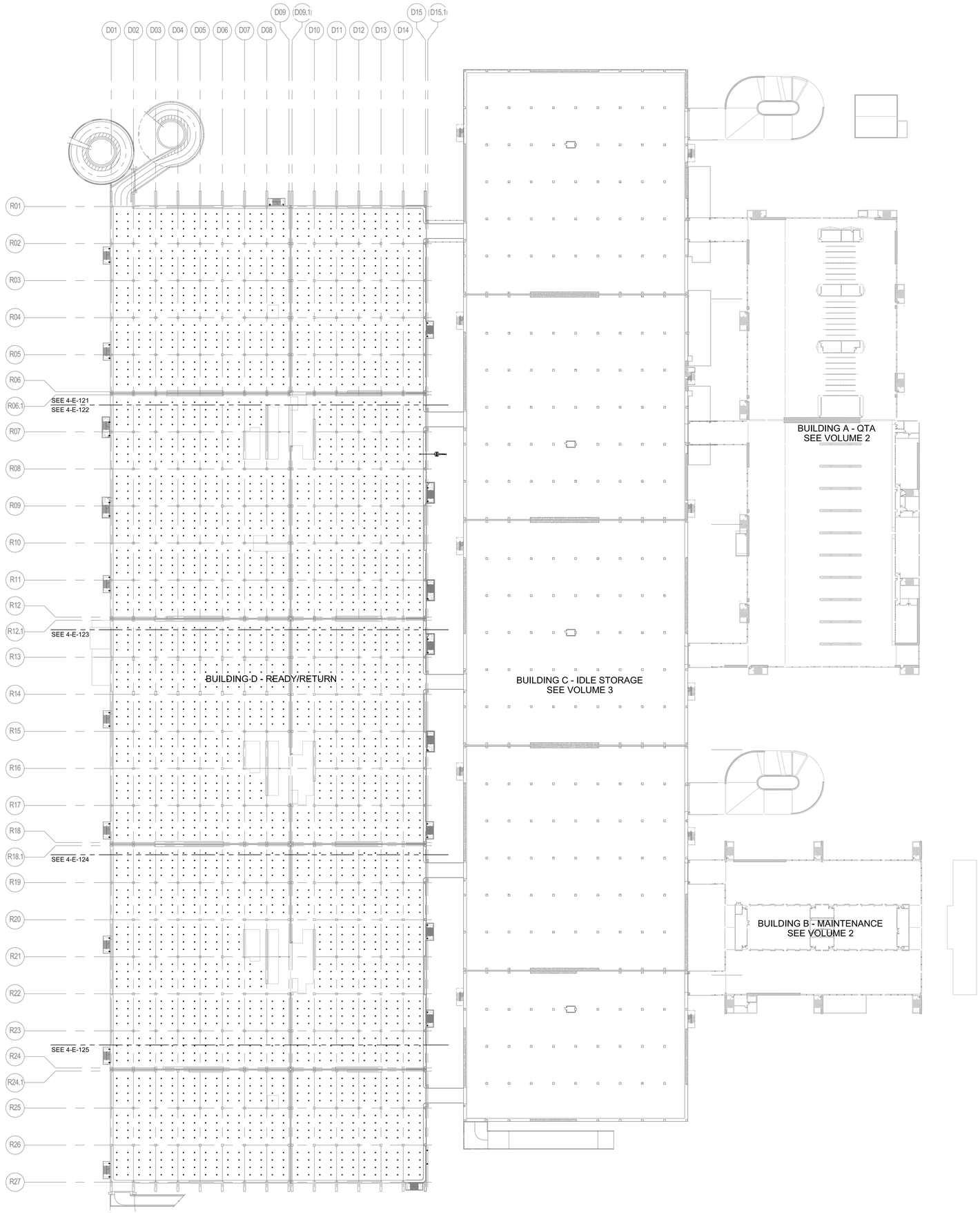
MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

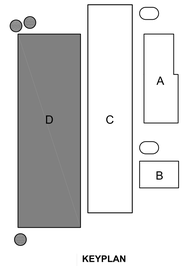
SHEET TITLE:

READY/RETURN
LEVEL 1 OVERALL
LIGHTING FLOOR PLAN

SHEET NO.
4-EL-010
SHEET OF



1 BUILDING D - READY/RETURN - LEVEL 2 OVERALL LIGHTING FLOOR PLAN
SCALE: 1"=60'-0"



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ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

ONT PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 2 OVERALL
LIGHTING FLOOR PLAN

SHEET NO.
4-EL-020

SHEET OF

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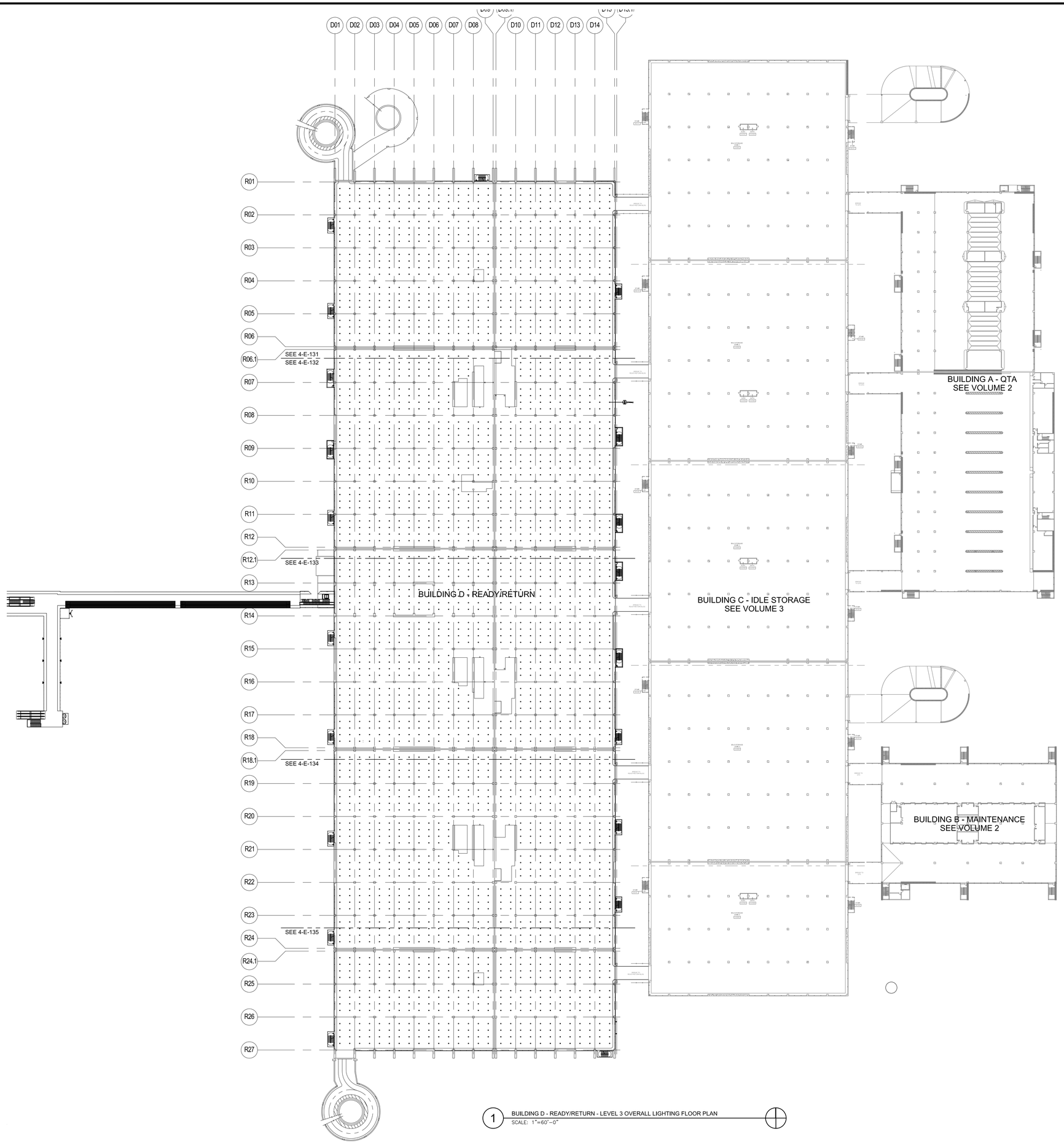

1 BUILDING D - READY/RETURN - LEVEL 3 OVERALL LIGHTING FLOOR PLAN

SCALE: 1"=60'-0"

KEY NOTES

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APPROVED BY

CHIEF AIRPORTS ENGINEER

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

ONT ANA

PMD LAX

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

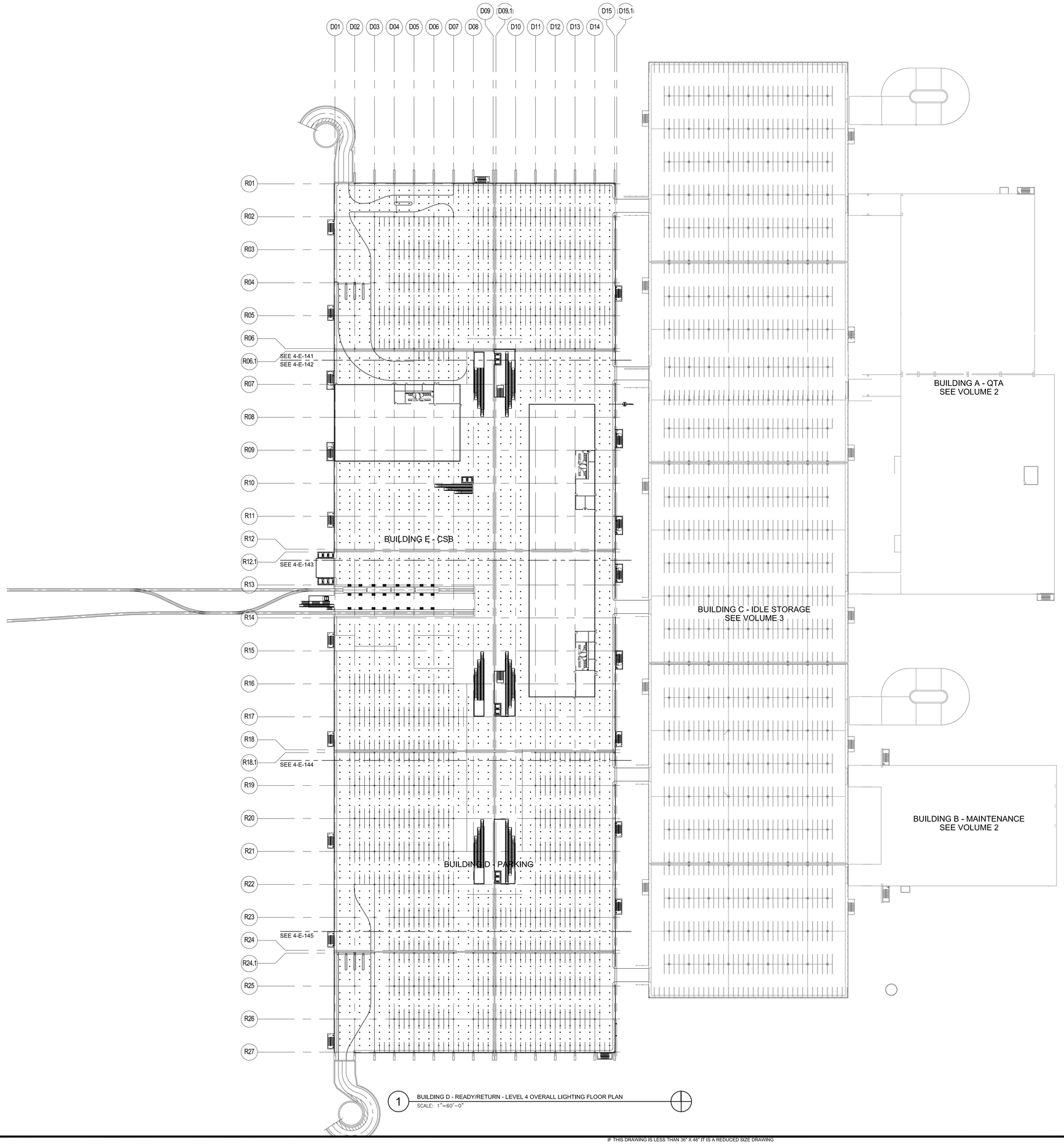
READY/RETURN
LEVEL 3 OVERALL
LIGHTING FLOOR PLAN

SHEET NO.

4-EL-030

SHEET OF

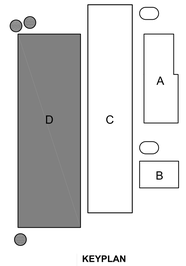
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - LEVEL 4 OVERALL LIGHTING FLOOR PLAN
SCALE: 1"=60'-0"

KEY NOTES

1 XXXXXXX



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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY

ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY

CHIEF AIRPORTS ENGINEER

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1"=60'-0"
DATE: 07/01/2016
DESIGNED BY: NB
DRAWN BY: AC
CHECKED BY: KS

SHEET TITLE:

READY/RETURN
LEVEL 4 OVERALL
LIGHTING FLOOR PLAN

SHEET NO.
4-EL-040

SHEET OF

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

TELECOM SYMBOL LEGENDS

NOTE:

1. ALL SYMBOLS ARE NOT NECESSARILY USED ON THESE PLANS.
2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF ALL DEVICES AND E□UIPMENT UON.
3. IN GENERAL, SYMBOLS SHOWN WITH LIGHT LINES DENOTE EXISTING WORK, SYMBOLS SHOWN WITH HEAVY LINES DENOTE NEW WORK.

DRAWING REFERENCES

Symbol	Description
1 / A101	DETAIL REFERENCE TAG
A / TXXX	EXTERIOR/INTERIOR ELEVATION
A / TXXX B	INTERIOR MULTI-VIEW ELEVATION
	NORTH ARROW
X	KEYNOTE
1	REVISION NUMBER

JUNCTION AND PULL BOXES

Symbol	Description
J	JUNCTION BOX
P	PULL BOX
H	HANDHOLE
MH	MAINTENANCE HOLE

CONDUIT AND RACEWAY

- CONDUIT RUN CONCEALED IN CEILING OR WALL CONSTRUCTION
- CONDUIT RUN IN FLOOR CONSTRUCTION OR UNDERGROUND DUCTBANK
- CONDUIT RUN EXPOSED
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CABLE TRAY □REFER TO PLANS FOR SIZE□

WIRELESS

M DAS-XY-Z-□□ — DAS ANTENNA

- SE□UENCE
- LEVEL
- AREA
- BUILDING

EVIDS

EVIDS XXX-Y XY-Z-□□

- TYPE
  - BID BAGGAGE INFORMATION
  - FID ARRIVALS / DEPARTURES INFORMATION
  - GID GATE INFORMATION
- DISPLAY TYPE, REFER TO EVIDS DETAILS
- EVIDS DISPLAY
- SE□UENCE
- LEVEL
- AREA
- BUILDING

STRUCTURED CABLING

- DATA OUTLET □SURFACE MOUNT□
- DATA OUTLET □FLOOR MOUNT□
- DATA OUTLET □CEILING MOUNT□

X-□ XYZ-□□ — DATA OUTLET TAG

- TYPE, REFER TO OUTLET DETAILS
- TOTAL PORT □UANTITY
- SE□UENTIAL NUMBER
- AREA
- LEVEL
- BUILDING

- CP — CONSOLIDATION POINT
- ENCLOSED E□UIPMENT CABINET
  - FRONT OF CABINET
  - CABINET ALLOCATION TAG
- FOUR POST E□UIPMENT RACK
  - CABINET ALLOCATION TAG
  - FRONT OF CABINET
- WALL MOUNT ENCLOSURE
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR □□18" AFF□
- TELECOMMUNICATIONS GROUNDING BUSBAR □□18" AFF□
- PLYWOOD BACKBOARD SHOWN FOR REFERENCE ONLY, REFER TO GENERAL TRADES

TELECOM ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BBH	BACKBONE HUB
BC	BELOW CEILING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAT	CATEGORY
CCT	COMMUNICATION CABLE TRAY
CH	CHANNEL
CLG	CEILING
COMM	COMUNICATIONS
CPU	CENTRAL PROCESSING UNIT
CR	COMMUNICATIONS ROOM
DEMO	DEMOLISH
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ELC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
E□	E□UALIZER
EX	EXISTING
FAR	FEDERAL AVIATION REGULATION
FIS	FEDERAL INSPECTION SERVICE
FO	FIBER OPTIC
GC	GENERAL CONTRACTOR
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IR	INFRARED
IRM	INFORMATION AND RESOURCE MANAGEMENT
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LFMC	LI□UIT TIGHT FLEXIBLE METALLIC CONDUIT
LVL	LEVEL
MCR	MAIN COMMUNICATIONS ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MMFO	MULTI-MODE FIBER OPTIC
MOD	MODULE
MUFIDS	MULTI-USER FLIGHT INFORMATION DISPLAY SYSTEM
NIC	NOT IN CONTRACT
O/P	OUTPUT
OTS	OFF THE SHELF
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PP	PATCH PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE CONDUIT
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMU	RACK UNIT
RU	RACK MOUNTED UNIT
SHLD	SHIELDED □AS IN CABLE□
SMFO	SINGLE-MODE FIBER OPTIC
SPP	SYSTEM POWER PANEL
SS	STAINLESS STEEL
TBD	TO BE DETERMINED
TDS	TELECOMMUNICATION DISTRIBUTION SYSTEM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USCBP	UNITED STATES CUSTOMS AND BORDER PROTECTION
USCS	UNITED STATES CUSTOMS SERVICE
VA	VETERANS ADMINISTRATION
VAC	VOLT ALTERNATING CURRENT
VDC	VOLT DIRECT CURRENT
VE	VOICE EVACUATION
VoiP	VOICE OVER INTERNET PROTOCOL □IP□
VSS	VISUAL SURVEILLANCE SYSTEM
W	WALL
WT	WATERTIGHT
XMTR	TRANSMITTER

TELECOM GENERAL NOTES

INSTALLATION REQUIREMENTS

1. BASIC ELECTRICAL RACEWAY SPECIFICATIONS RE□UIREMENTS SHALL APPLY TO THIS WORK. REFER TO ELECTRICAL SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE ALL OPTICAL FIBER CABLE, INNERDUCT, E□UIPMENT CABINET, PATCH CORDS, PATCH PANELS, RELATED HARDWARE, TERMINATION E□UIPMENT, AND ANY OTHER APPURTENANCES. CONTRACTOR SHALL PROVIDE ALL E□UIPMENT, MATERIALS, LABOR, AND SERVICES NECESSARY TO TEST, LABEL, AND DOCUMENT THE CABLING SYSTEM, AND TO ENSURE THAT IT IS IN COMPLIANCE WITH RE□UIREMENTS STATED HEREIN.
3. CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS, CONDUIT, AND JUNCTION BOXES □40□ MAXIMUM FILL□ INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE □NEC□AND ALL LOCAL CODES HAVING JURISDICTION. TELECOM CONDUIT FILL SHALL NOT EXCEED 40□ .
4. 120 VAC INPUT POWER CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT OR CABLE TRAY AS LOW VOLTAGE AUDIO, VIDEO, DC POWER, UTP OR ANY OTHER LOW VOLTAGE CABLES.
5. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLAION OF WORK OF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY CONFLICTS OR PROBLEMS ARE DISCOVERED.
6. INNERDUCT SHALL BE INSTALLED IN ALL CONDUITS IN WHICH FIBER CABLING IS TO BE INSTALLED. ALL OPTICAL FIBER CABLES SHALL BE PLACED WITHIN INNERDUCT. INNERDUCT SHALL MEET NEC 770-53 RE□UIREMENTS, BE 1-INCH DIAMETER, BE ORANGE IN COLOR AND HAVE A UL 910 FLAME RATING UNLESS NOTED OTHERWISE ON DUCT INSTALLATION DRAWINGS OR PREVIOUSLY INSTALLED.
7. INSTALL TRUE TAPE TYPE PULL STRINGS IN ALL DUCTS, CONDUITS OR INNERDUCTS. REPLACE PULL STRINGS THAT ARE USED WITH E□UIVALENT PULL STRINGS.
8. OPTICAL FIBER PATCH PANELS SHALL BE PROVIDED AS SHOWN ON DRAWINGS AND SHALL INCLUDE THE FOLLOWING IN □UANTITIES AS NECESSARY:
   A. BEJED, BJ-1646-047, METAL 6 PORT, SC DIE-CUT ADAPTER PLATE
   B. ALCOA FUJIKURA C080810, GREEN, SC-APC ADAPTERS
   C. BEJED BJ-1742C-011, 24 FIBER SPLICE TRAY□INCLUDING METAL ROD REINFORCED HEATH SHRINKABLE FUSION SPLICE PROTECTOR SLEEVES□
   E. CORNING SC-APC POLISHED PIGTAILS OR E□UIVALENT
   F. PROVIDE CORNING ULTRA-PC POLISHED PIGTAILS OR E□UIVALENT
9. PROVIDE PATCH CABLES OR DUPLEX JUMPERS FROM EXISTING PATCH PANELS TO NEW FIBER PATCH PANELS. VERIFY WITH OWNER CONNECTOR TYPE ON EXISTING PATCH PANELS BEFORE ORDERING PATCH CABLES OR JUMPERS.
10. CONTRACTOR SHALL ONLY FUSION SPLICE PIGTAILS THAT HAVE HAD CONNECTORS INSTALLED AND POLISHED BY THE MANUFACTURER OR LOCAL CABLE ASSEMBLY HOUSE. THE CONTRACTOR SHALL NOT INSTALL OR POLISH FIBER OPTIC CONNECTORS, EITHER IN THE FIELD OR IN THEIR SHOP. PIGTAILS SHALL HAVE THE SAME GLASS SPECIFICATION AS THE FIBER CABLE. FOR SINGLEMODE FIBER, ONLY SC-APC, ANGLE POLISHED PRE-CONNECTORIZED, PRE-TERMINATED PIGTAILS SHALL BE FUSION SPLICED TO THE CABLE. ACCEPTABLE PRODUCTS: CORNING SMF-28e□GLASS.
11. OUTSIDE PLANT FIBER SHALL BE SINGLEMODE OUTSIDE PLANT RATED CORNING OPTICAL FIBER SMF28e□OR BETTER APPROVED E□UIVALENT. FIBER CABLE JACKETING SHALL BE EITHER CORNING ALTOS ALL DIELECTRIC GEL FREE OR APPROVED E□UIVALENT.
12. ALL CABLES SHALL BE CONTINUOUS FROM THE SOURCE TO THE DESTINATION AND SHALL NOT HAVE SPLICES IN BETWEEN PATCH PANELS EXCEPT IN MANHOLE 235 AS NOTED ON DRAWINGS.
13. CONTRACTOR SHALL USE FUSION SPLICER WITH VIEWING OPTICS, MAGNIFIED VISUAL DISPLAY, OR OTHER IMAGE PROCESSING SOFTWARE TO PERFORM CORE ALIGNMENT AND □UALITY VERIFICATION □FUJIKURA FSM-50S OR E□UIVALENT□ PERMITTED FUSION SPLICE LOSS IS 0. 015DB MAXIMUM. SPLICES THAT DO NOT MEET MAXIMUM SPLICE LOSS RE□UIREMENTS SHALL BE RESPLICED AND RETESTED.
14. SERVICE LOOPS OF 15 FEET SHALL BE PROVIDED AT ALL CABLE ENDS. OUTDOOR CABLES IN MANHOLES SHALL HAVE 30 FEET OF SLACK FOR A SERVICE LOOP.

TESTING AND LABELING REQUIREMENTS

1. CONTRACTOR SHALL TEST ALL STRANDS OF OPTICAL FIBER WITH AN APPROVED POWER METER AND LIGHT SOURCE. TESTER SHALL BE CAPABLE OF PERFORMING THE TESTS RE□UIRED BY ANSI/TIA/EIA-568-C 2.1 ANNEX H, ANSI/TIA/EIA-526-14A, AND ANSI/TIA/EIA-526-7.
2. PRIOR TO SHIPMENT OF THE OPTICAL FIBER CABLE, 100 PERCENT OF THE FIBERS SHALL BE TESTED WITH AN OPTICAL TIME DOMAIN REFLECTOMETER □OTDR□ COPIES OF THE TRACES SHALL BE FURNISHED AS PART OF THE SUBMITTALS. UPON DELIVERY TO THE SITE ALL FIBER STRANDS SHALL BE TESTED WITH AN OTDR BEFORE INSTALLATION BEGINS. SUBMIT □2□ PAPER COPIES BEFORE INSTALLATION BEGINS.
3. THE CONTRACTOR SHALL VERIFY THE INTEGRITY OF THE INSTALLED FIBER BY TESTING WITH AN OTDR. TEST SHALL BE PERFORMED ON 100 PERCENT OF THE FIBERS AND REPEATED FROM THE OPPOSITE END OF EACH FIBER OR PERFORMED WITH A LAUNCH CABLE AT EACH END. SUBMIT COPIES OF TRACES.
4. IF OTDR TEST RESULTS ARE UNSATISFACTORY DUE TO CABLE DAMAGE, CABLE SEGMENT IS UNACCEPTABLE AND SHALL BE REPLACED AT CONTRACTOR□S EXPENSE.
5. PROVIDE END-TO-END ATTENUATION TESTING USING AN APPROVED POWER METER AND LIGHT SOURCE PER ANSI/TIA/EIA 455-53A.
6. FIBER SHALL BE TESTED IN BOTH DIRECTIONS AT BOTH 1310 NM AND 1550 NM. PERFORM OPTICAL ATTENUATION MEASUREMENTS FOR EACH OPTICAL FIBER AFTER CABLES HAVE BEEN CONNECTORIZED, DRESSED AND MOUNTED INTO PANELS TO SHOW LOSSES OF CABLE, CONNECTORS AND COUPLERS. ACCEPTABLE ATTENUATION FOR OSP BACKBONE CABLING IS 0.5 DB/KM AT BOTH TEST FRE□UENCIES.
7. ALL CABLES AND PATCH CABLES SHALL HAVE A PERMANENT LABEL ATTACHED AT BOTH ENDS.
8. ALL INDOOR CABLE AND PATCH CABLE LABELS SHALL BE PRE-PRINTED USING BRADY TLS 2200 PRINTER OR E□UIVALENT AND SHALL BE PLACED LOOSE ON THE PATCH CABLE NEAR THE CONNECTOR END WITHOUT HEAT SHRINKING LABELS. LABELS SHALL USE A THREE LINE FORMAT WITH THE ORIGINATION PATCH PANEL AND PORT ON THE FIRST LINE, THE DESTINATION PATCH PANEL AND PORT ON THE SECOND LINE AND THE SYSTEM OR OTHER DESCRIPTIVE INFORMATION ON THE THIRD LINE. SEE LAWA ITMG FOR SAMPLE LABELS.
9. PATCH PANELS SHALL BE LABELED ON THE FRONT PANEL WITH 1" BLACK CHARACTERS ON A "SAFETY ORANGE" BACKGROUND LETTERING 3M KIT 5005-KIT OR E□UIVALENT.
10. ALL OUTDOOR CABLES SHALL BE LABELED WITH ACP FT-LAWATAG-2.5X4 PLASTIC TAGS AND PRE-PRINTED WITH PERMANENT INK. OUTDOOR CABLES SHALL BE LABELED □AND SECURED WITH HEAVY DUTY STRAPS□IN EVERY MANHOLE AND HANDHOLE WITHIN 12 INCHES OF WHERE THE CABLE INTERS THE MANHOLE, WITHIN 12 INCHES OF WHERE THE CABLE EXITS THE MANHOLE AND ON THE SLACK COIL.

SUBMITTAL REQUIREMENTS

1. SUBMIT FOR APPROVAL MANUFACTURER□S DATA SHEETS FOR ALL PROPOSED MATERIALS AND E□UIPMENT. SUBMIT A TWO-FOOT LENGTH SAMPLE OF EACH FIBER CABLE TYPE/COUNT TO BE INSTALLED.
2. SUBMIT CALIBRATION REPORTS FOR ALL TEST E□UIPMENT. THE CALIBRATION SHALL BE PERFORMED BY A MANUFACTURER CERTIFIED CALIBRATION FACILITY AND BE DATED NO MORE THAN SIXTY □60□DAYS PRIOR TO THE START OF TESTING.
3. SUBMIT □5□HARDBOUND COPIES OF ALL CABLE TEST RESULTS AND ONE ELECTRONIC COMPACT DISC.
4. SUBMIT ALL PROPOSED LABELING MATERIALS AND NOMENCLATURE FOR APPROVAL.
5. CONTRACTOR SHALL MAINTAIN A SET OF CONTRACT DRAWINGS DURING INSTALLATION AND RED-LINE MARK THEM TO INDICATE ANY CHANGES AS THEY OCCUR.
6. CONTRACTOR SHALL PROPOSE A TEAM THAT IS □UALIFIED TO PERFORM THE WORK OF THIS PROJECT □SUBMIT PROJECT BRIEFS AND RESUMES□INCLUDING AN EXPERIENCED PROJECT MANAGER THAT WILL SERVE AS A SINGLE POINT OF CONTACT AND RESPONSIBILITY FOR THE CONTRACTORS TEAM.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC MANAGEMENT AND SHALL SUBMIT TO LAWA AIRPORT AND FACILITIES PLANNING DIVISION ALL PROPOSED TRAFFIC MANAGEMENT METHODS AND PRODUCTS FOR APPROVAL. OUTSIDE PLANT CABLE INSTALLATION THAT RE□UIRES OBSTRUCTION OF TRAFFIC SHALL BE DONE ON THE NIGHT SHIFT.
8. THE FIBER CABLING CONTRACTOR SHALL BE A CERTIFIED CORNING OPTICAL CABLE INSTALLER, WITH THE CAPABILITY OF PROVIDING A MANUFACTURER□S CERTIFICATION OF NOT LESS THAN FIFTEEN □15□YEARS FOR THE INSTALLED CABLING AND ASSOCIATED TERMINATION E□UIPMENT. THE CONTRACTOR SHALL SUBMIT PROOF OF CERTIFICATION TO OWNER PRIOR TO COMMENCING WORK. PROVIDE MAXIMUM INSTALLATION WARRANTY OFFERED BY THE MANUFACTURER.
9. PROJECT RECORD DOCUMENTS □AS-BUILTS□WILL BE PROVIDED UPON COMPLETION OF THE INSTALLATION. DRAWINGS WILL BE UPDATED ELECTRONICALLY AND SUBMITTED TO LAWA IN ACCORDANCE WITH THE SCHEDULE PROVIDED FOR THIS BY LAWA. DO NOT WAIT UNTIL THE END OF THE PROJECT. SUBMIT RECORD DRAWING FILES IN AUTOCAD RELEASE 2008 OR LATER.
10. CONTRACTOR WILL BE RE□UIRED TO ATTEND REGULAR WEEKLY PROGRESS MEETINGS AND SUBMIT PROJECT STATUS REPORTS AND UPDATED SCHEDULES.

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TranSystems
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Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Lo□Angele□International Airport

APPROVED BY — CHIEF AIRPORTS ENGINEER

SUBMITTED BY — ASST. CHIEF AIRPORTS ENGINEER

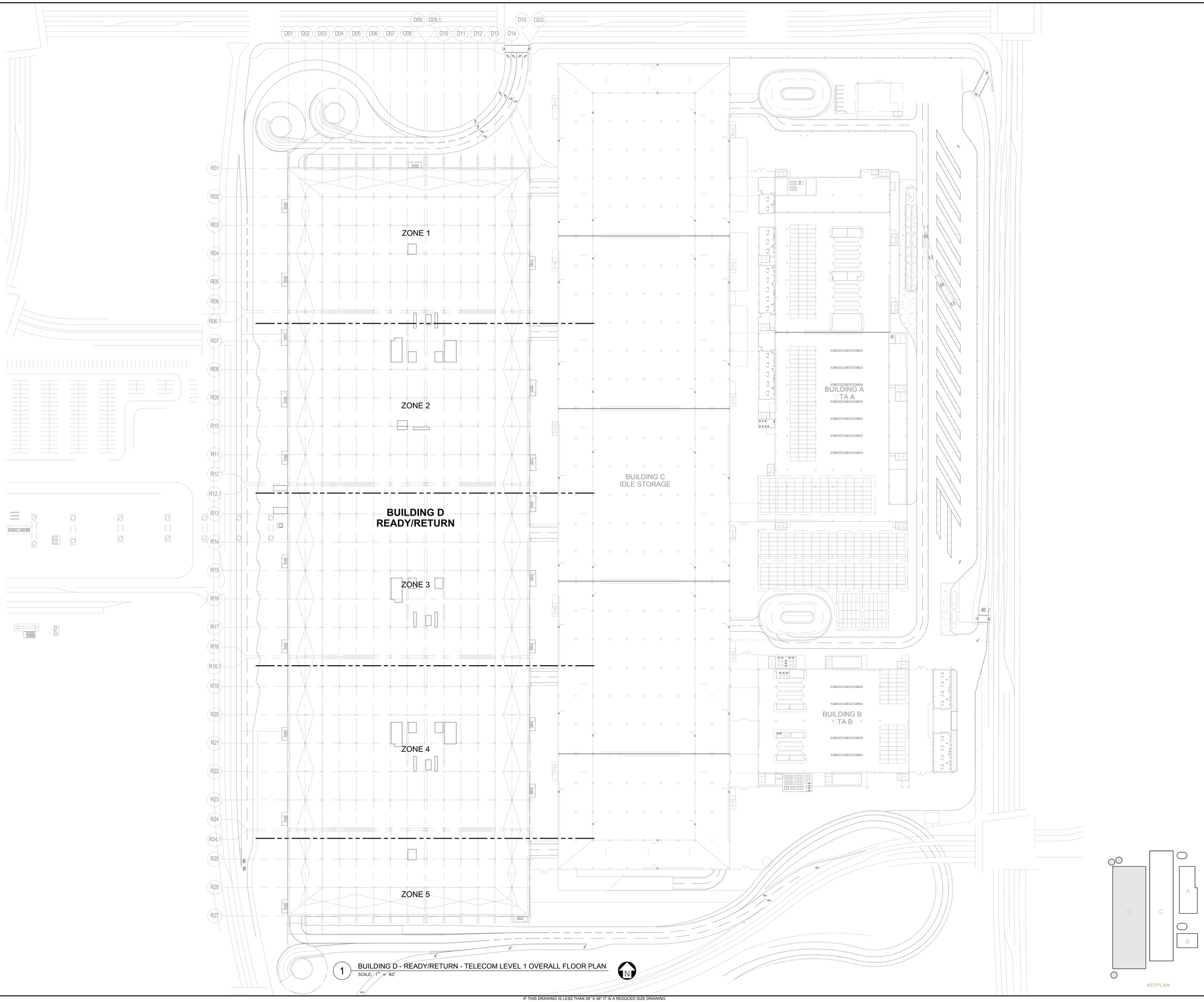
REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: NONE
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R□B
CHECKED BY: TW

SHEET TITLE:
TELECOM LEGEND, NOTES, AND ABBREVIATIONS

SHEET NO.
4-T-001



1 BUILDING D - READY/RETURN - TELECOM LEVEL 1 OVERALL FLOOR PLAN
SCALE: 1" = 60'

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DRAWN BY: R. B
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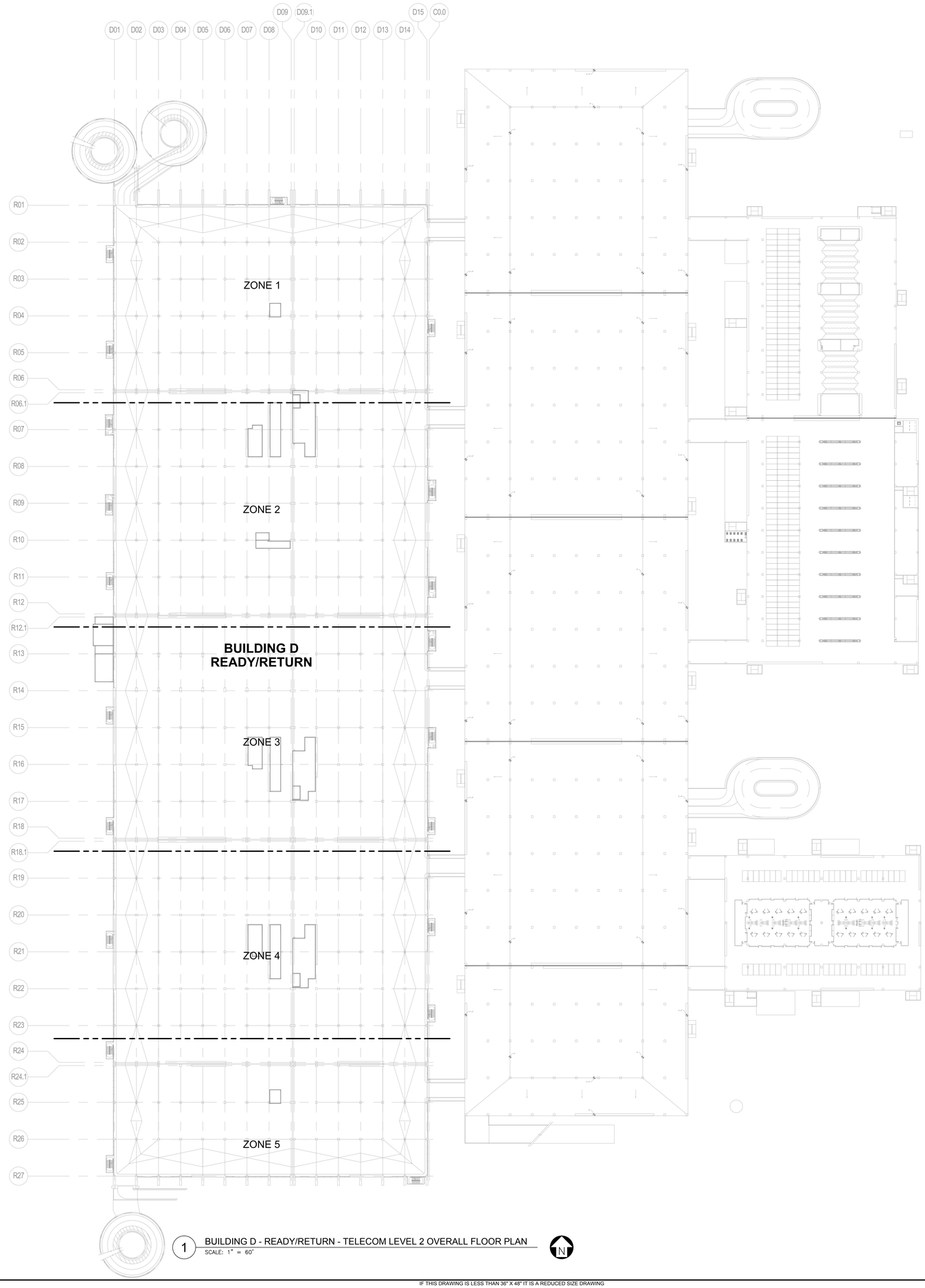
SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 1 OVERALL
FLOOR PLAN

SHEET NO.
4-T-010



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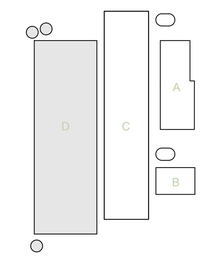

KEYPLAN

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ONT ANA PMD LAX

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SHEET TITLE:

READY / RETURN
TELECOM
LEVEL 2 OVERALL
FLOOR PLAN

SHEET NO.

4-T-020

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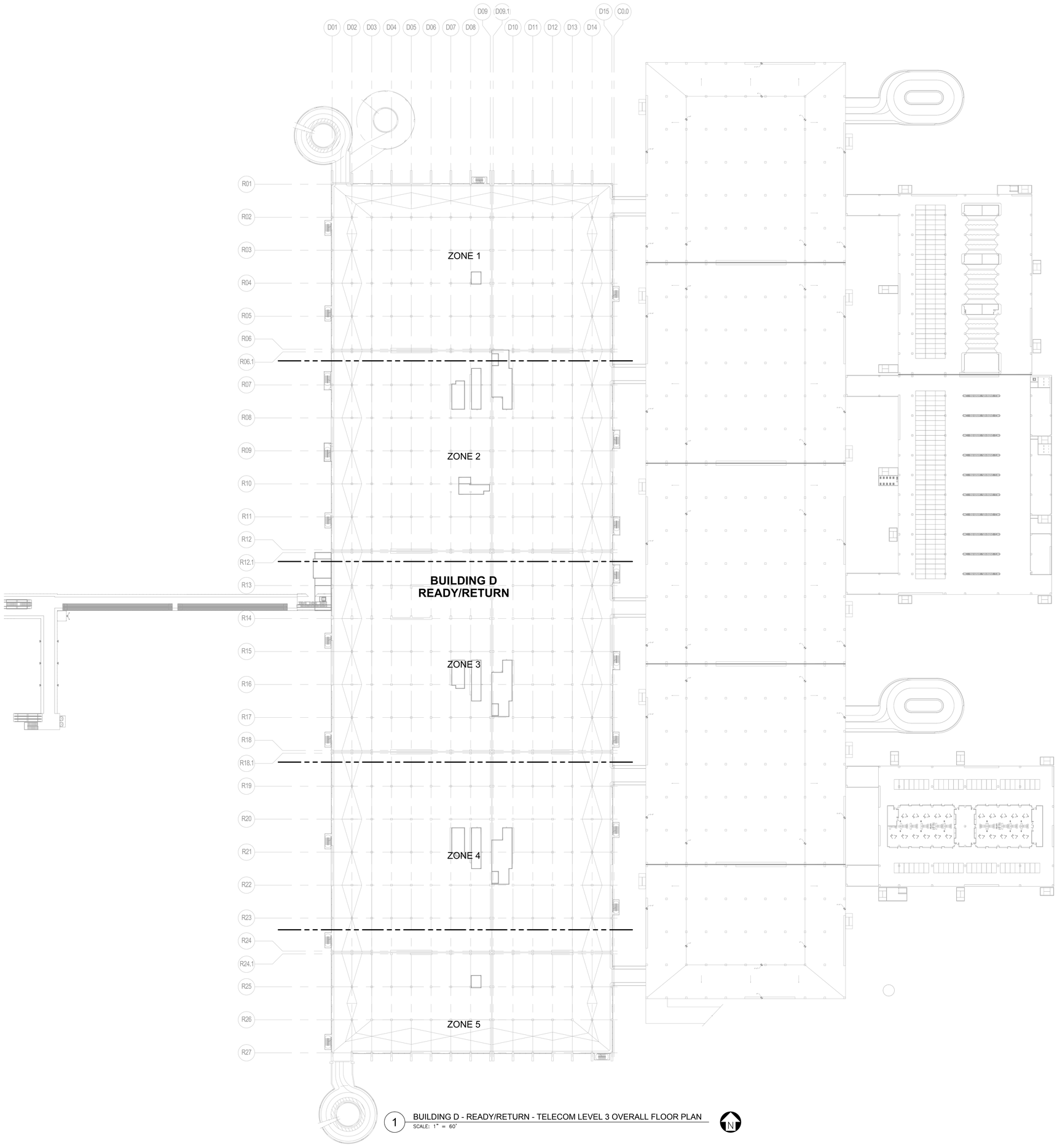

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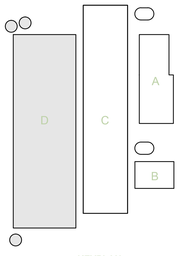
SCALE: 1" = 60'



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LEVEL 3 OVERALL
FLOOR PLAN

SHEET NO.
4-T-030

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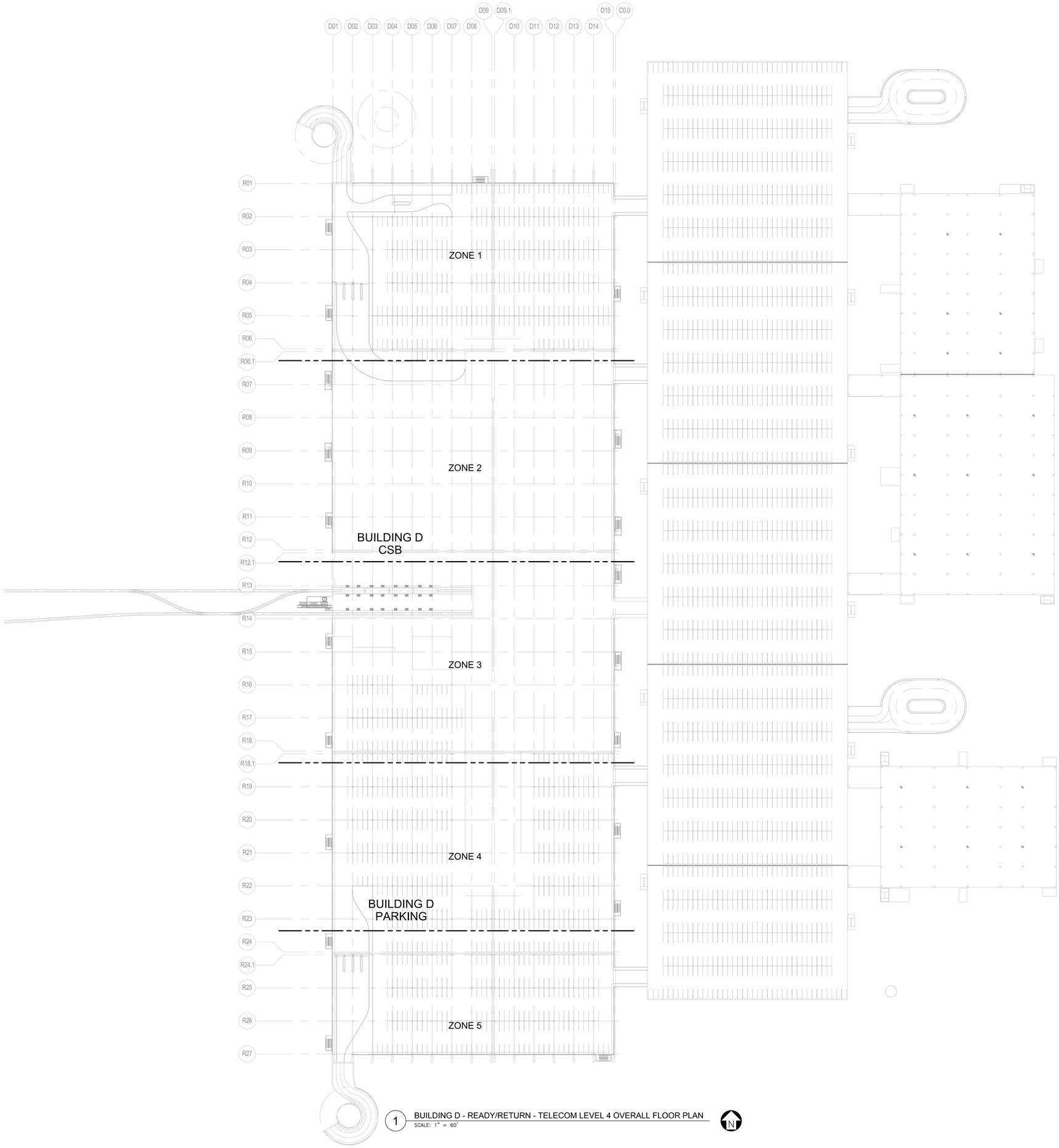

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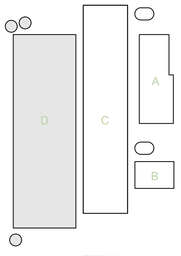
SCALE: 1" = 60'



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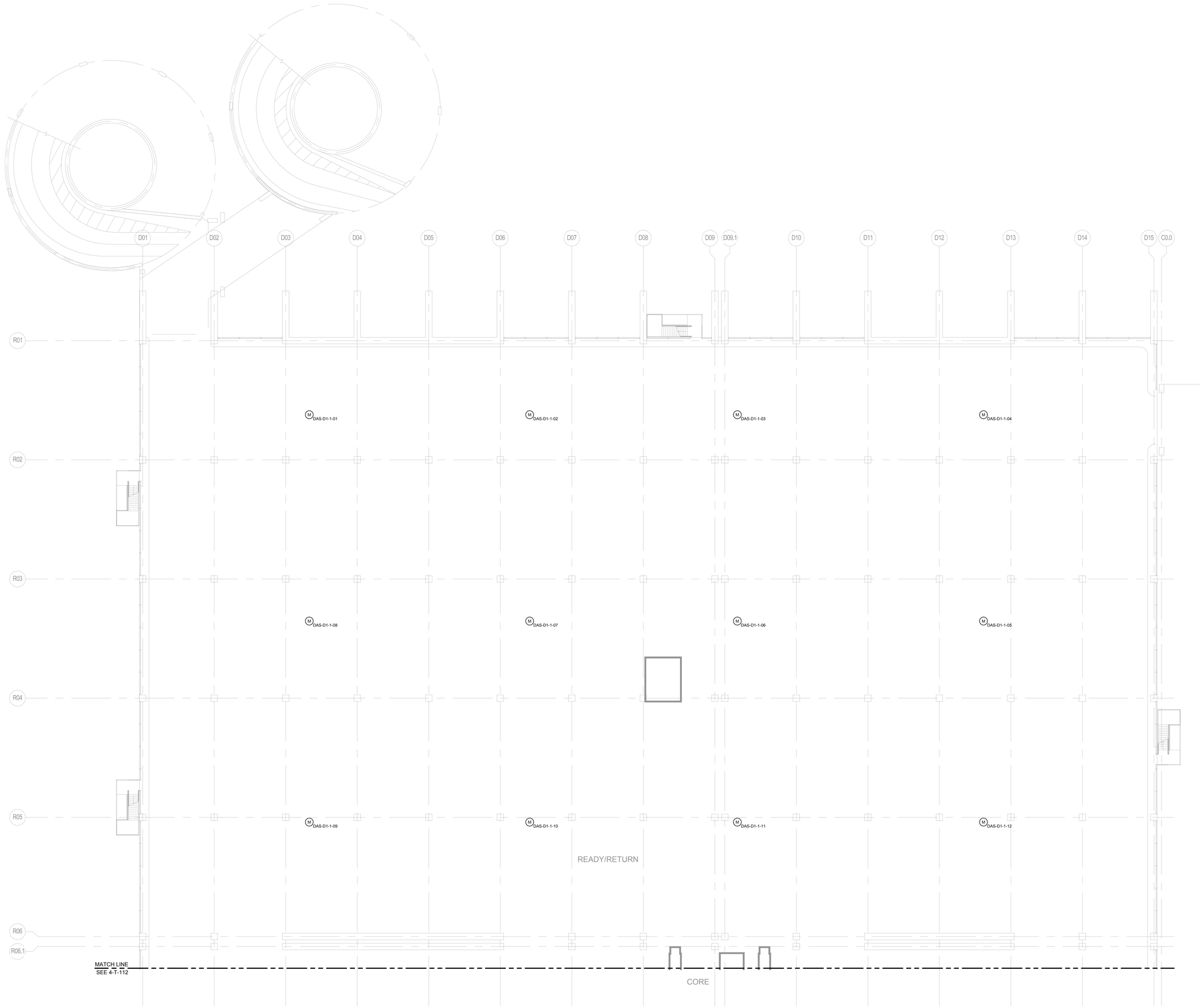

1 BUILDING D - READY/RETURN - TELECOM LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
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PHONE: 562. 594-6974
FAX: 562. 594-6975

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CONSULTANTS:
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APPROVED BY

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PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TW
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CHECKED BY: TW

SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 1
FLOOR PLAN

SHEET NO.
4-T-111

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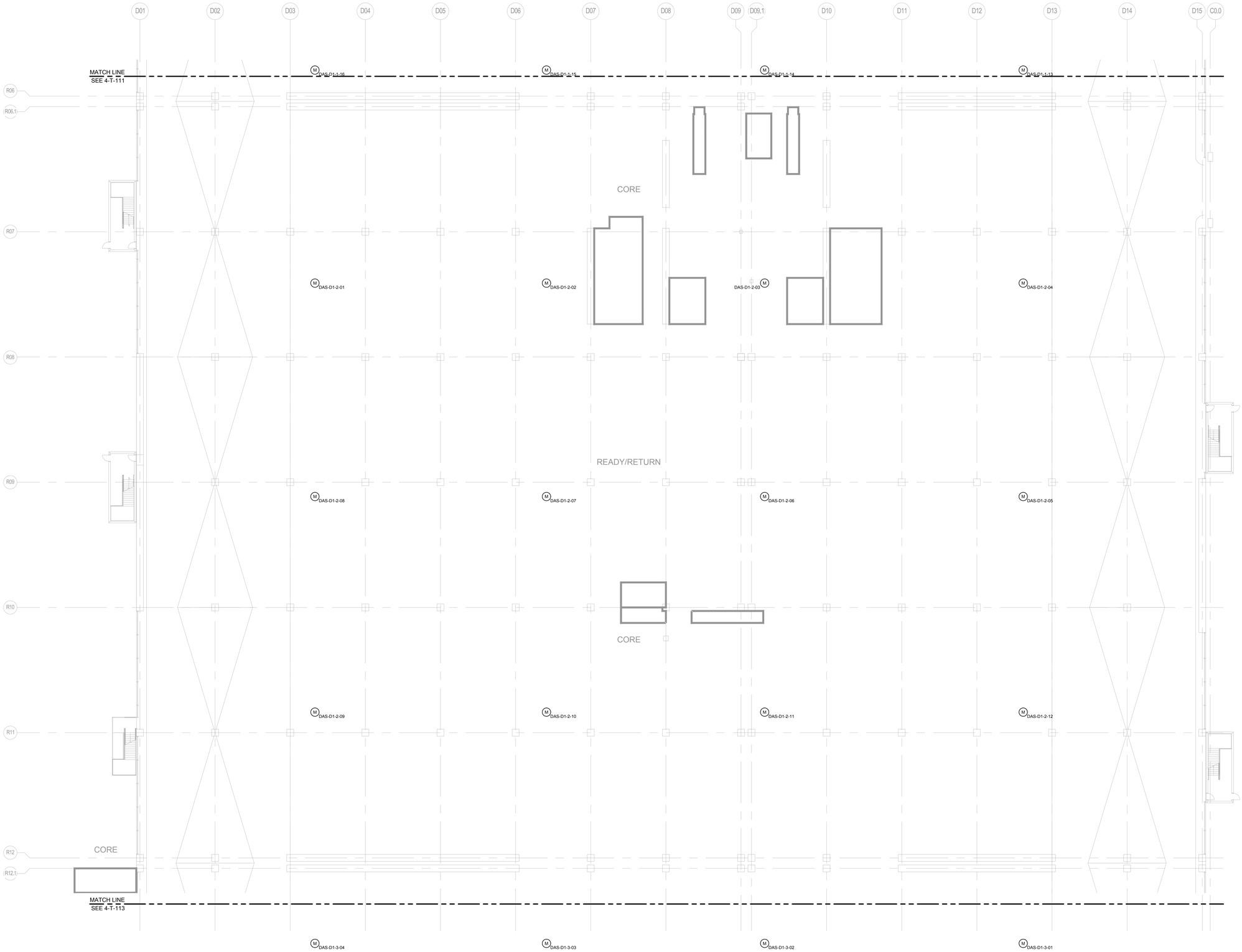

1 BUILDING D - READY/RETURN - TELECOM LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 1
FLOOR PLAN

SHEET NO.
4-T-112

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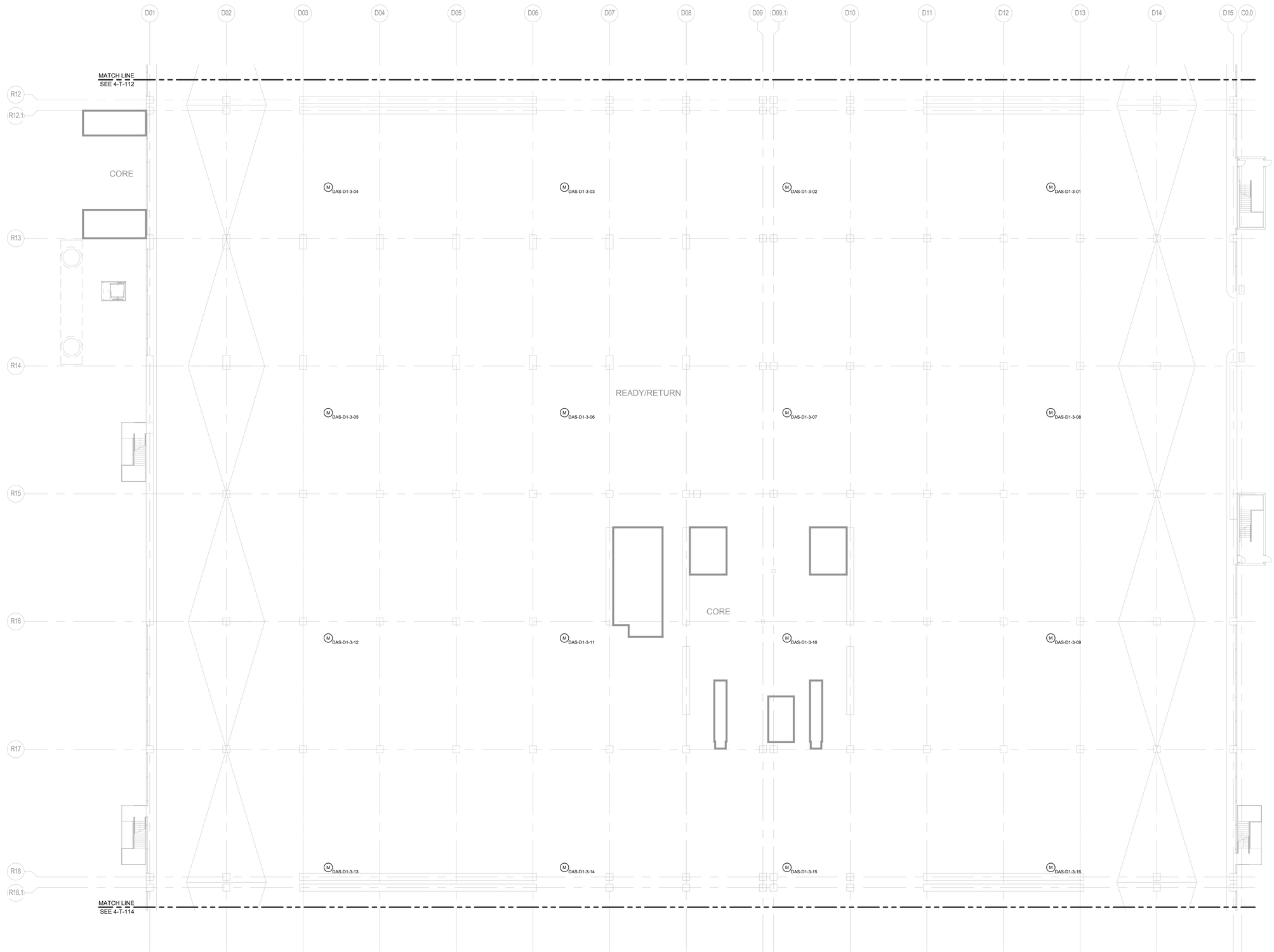

1 BUILDING D - READY/RETURN - TELECOM LEVEL 1 FLOOR PLAN

SCALE: 1/16" = 1'-0"

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SHEET TITLE:

READY / RETURN
TELECOM
LEVEL 1
FLOOR PLAN

SHEET NO.

4-T-113

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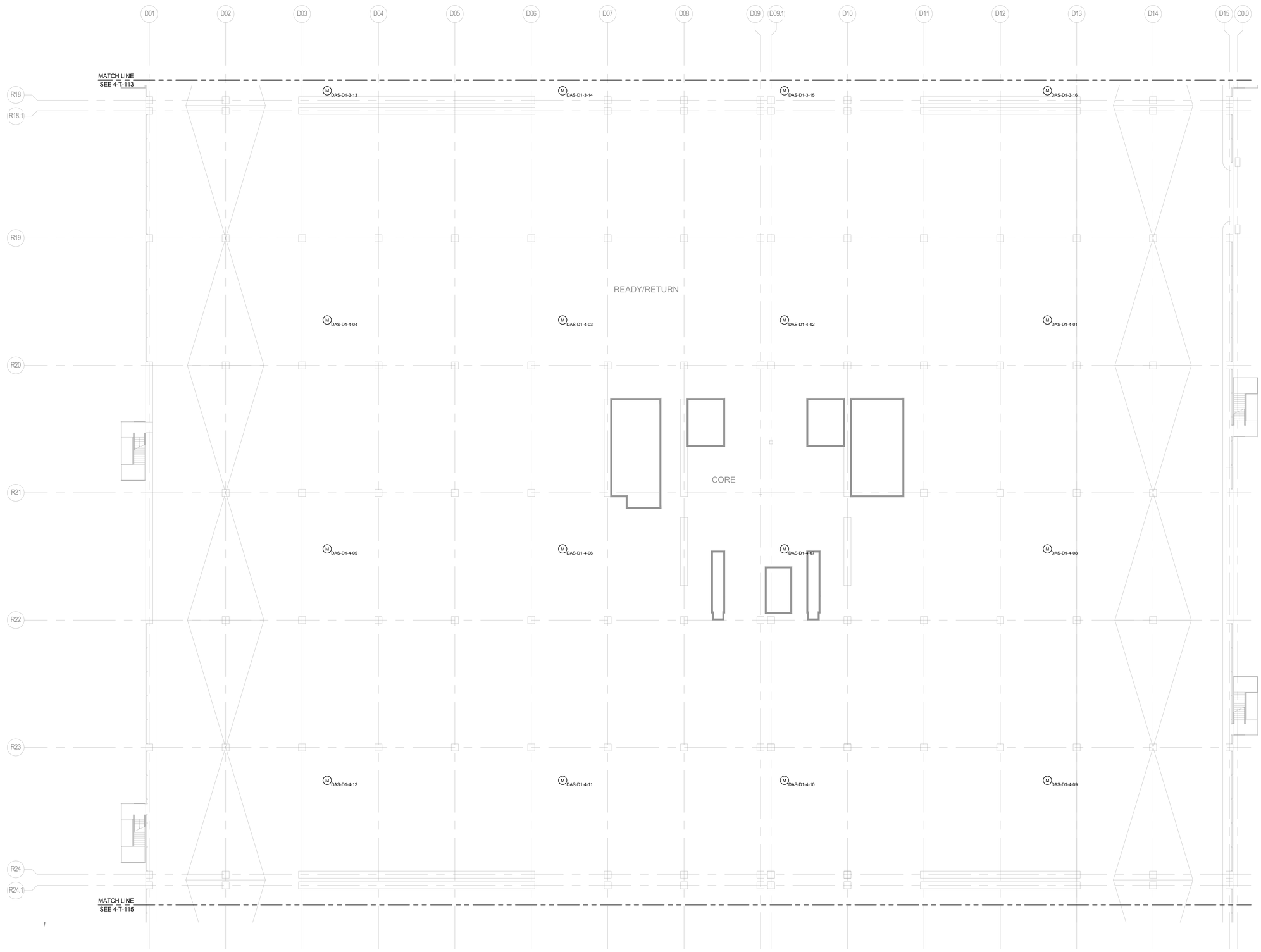

1 BUILDING D - READY/RETURN - TELECOM LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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READY / RETURN
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LEVEL 1
FLOOR PLAN

SHEET NO.
4-T-114

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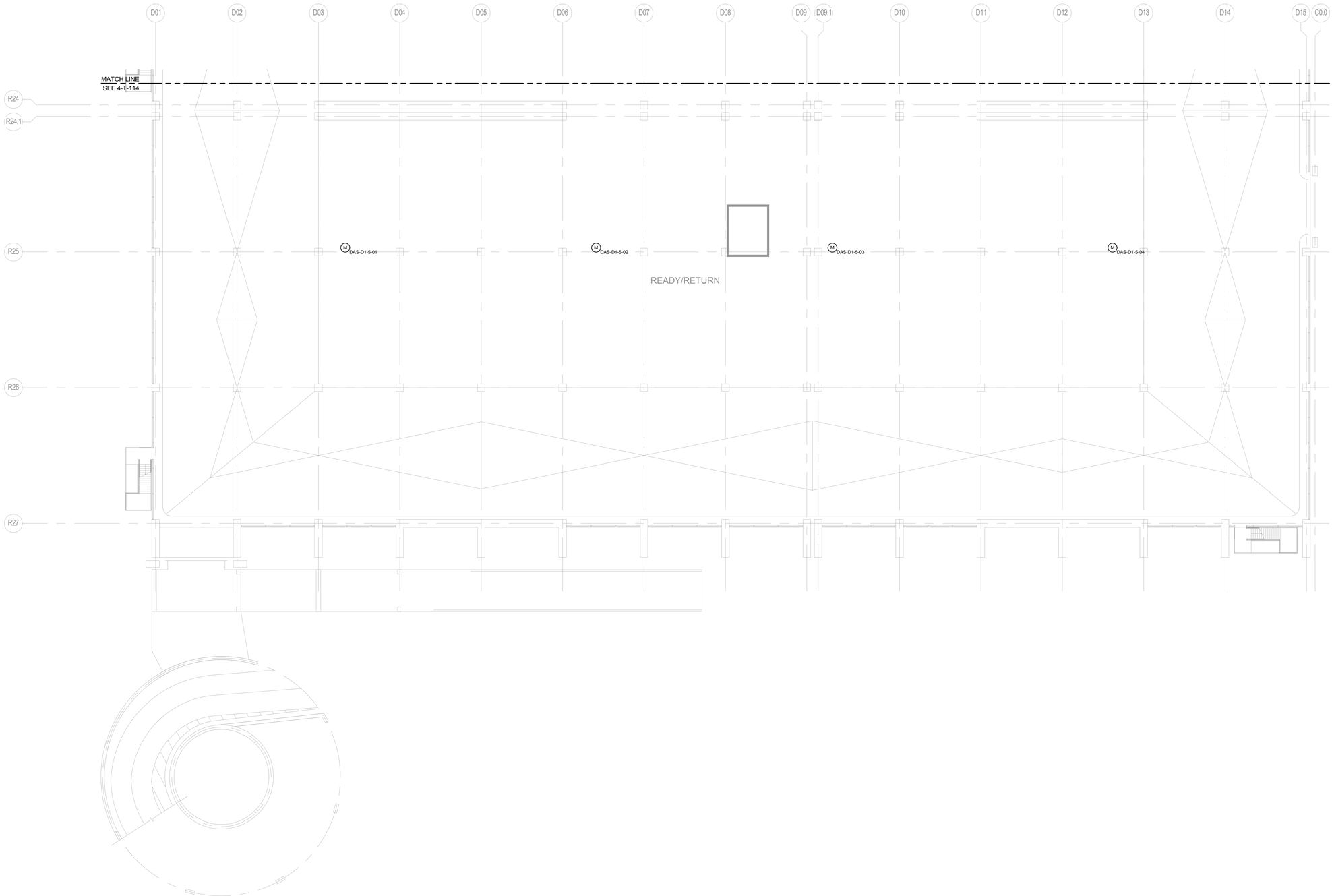

1 BUILDING D - READY/RETURN - TELCOM LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 1
FLOOR PLAN

SHEET NO.
4-T-115

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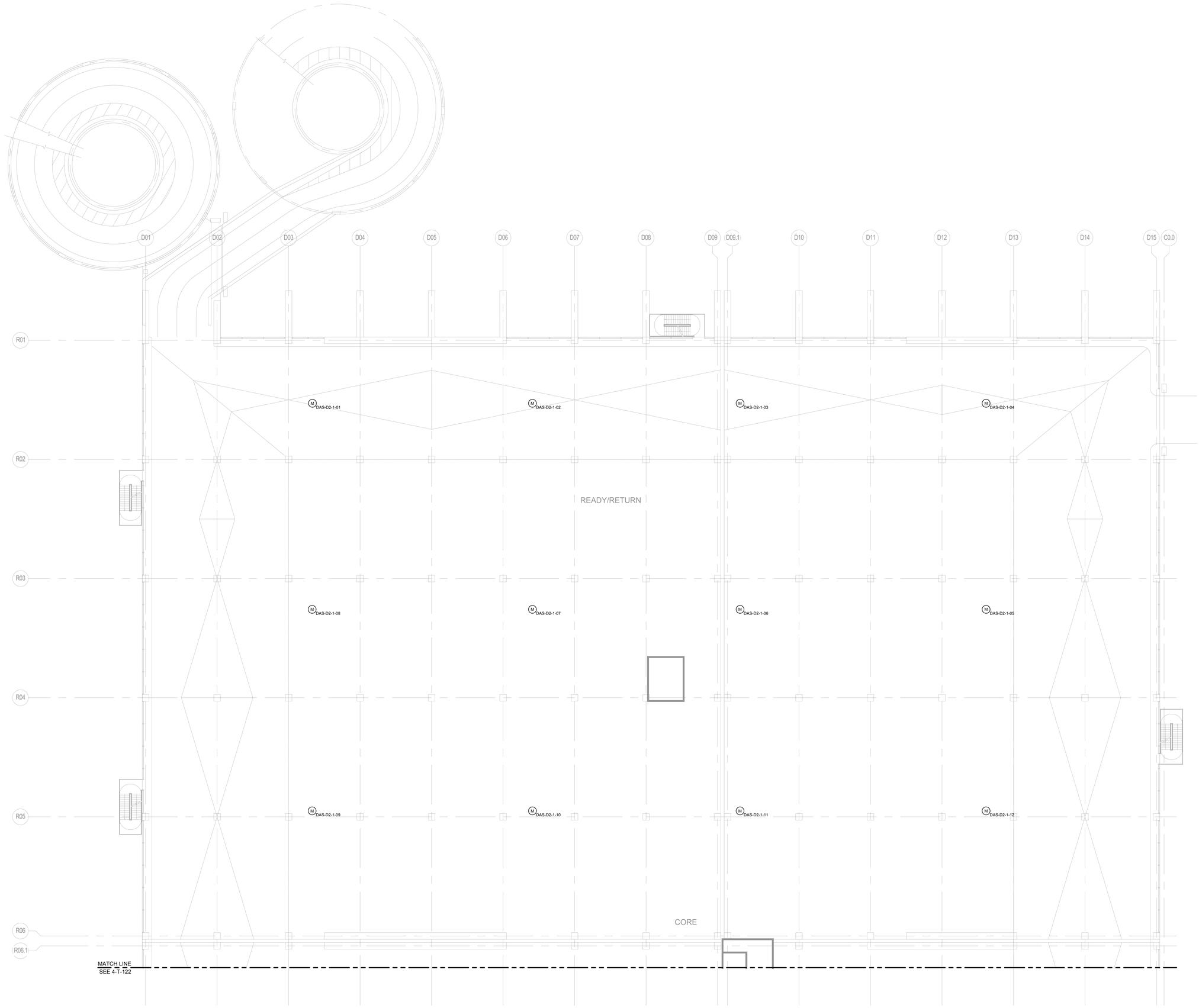

1 BUILDING D - READY/RETURN - TELECOM LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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TELECOM
LEVEL 2
FLOOR PLAN

SHEET NO.
4-T-121

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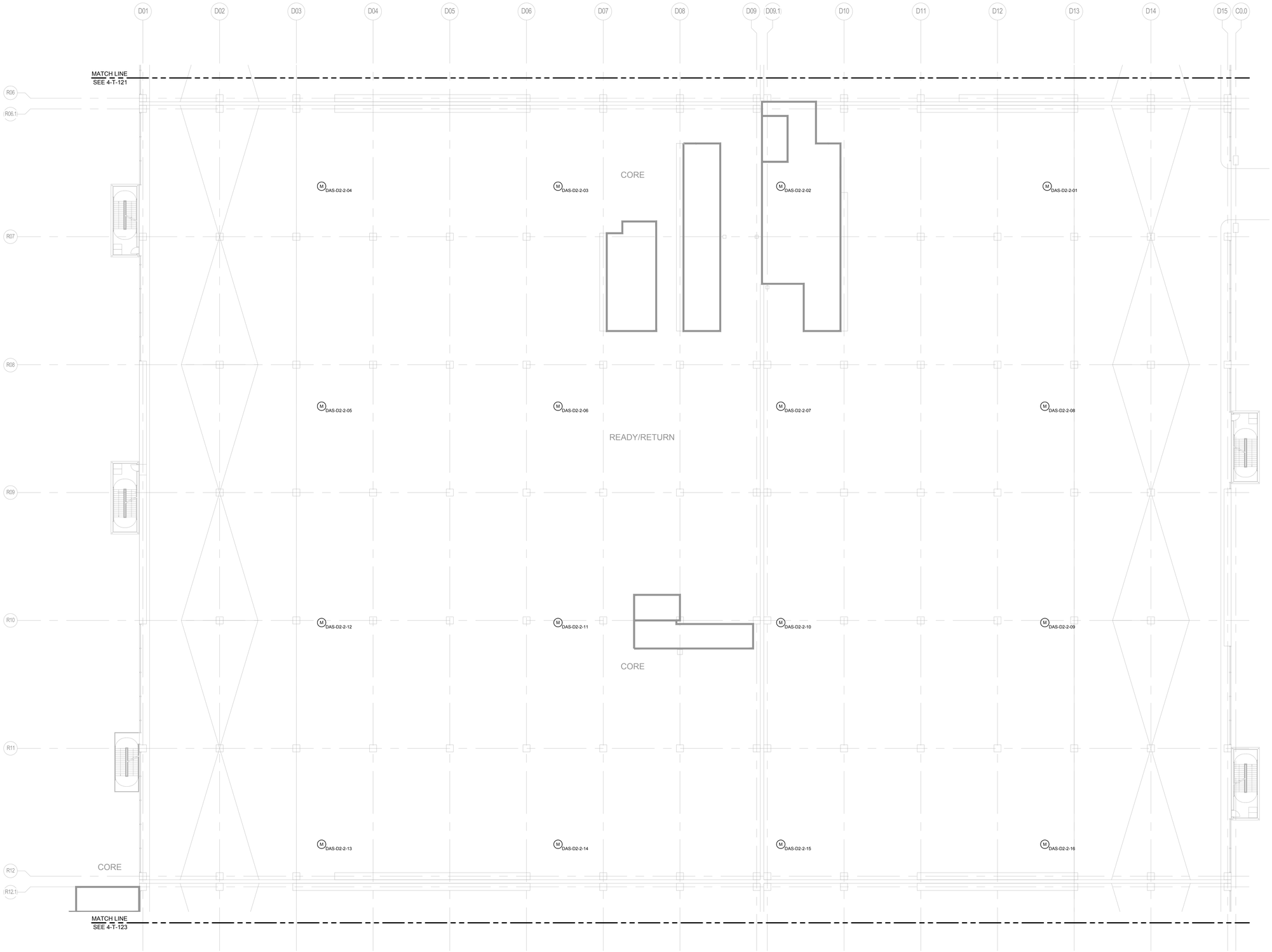

1 BUILDING D - READY/RETURN - TELECOM LEVEL 2 FLOOR PLAN
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READY/ RETURN
TELECOM
LEVEL 2
FLOOR PLAN

SHEET NO.
4-T-122

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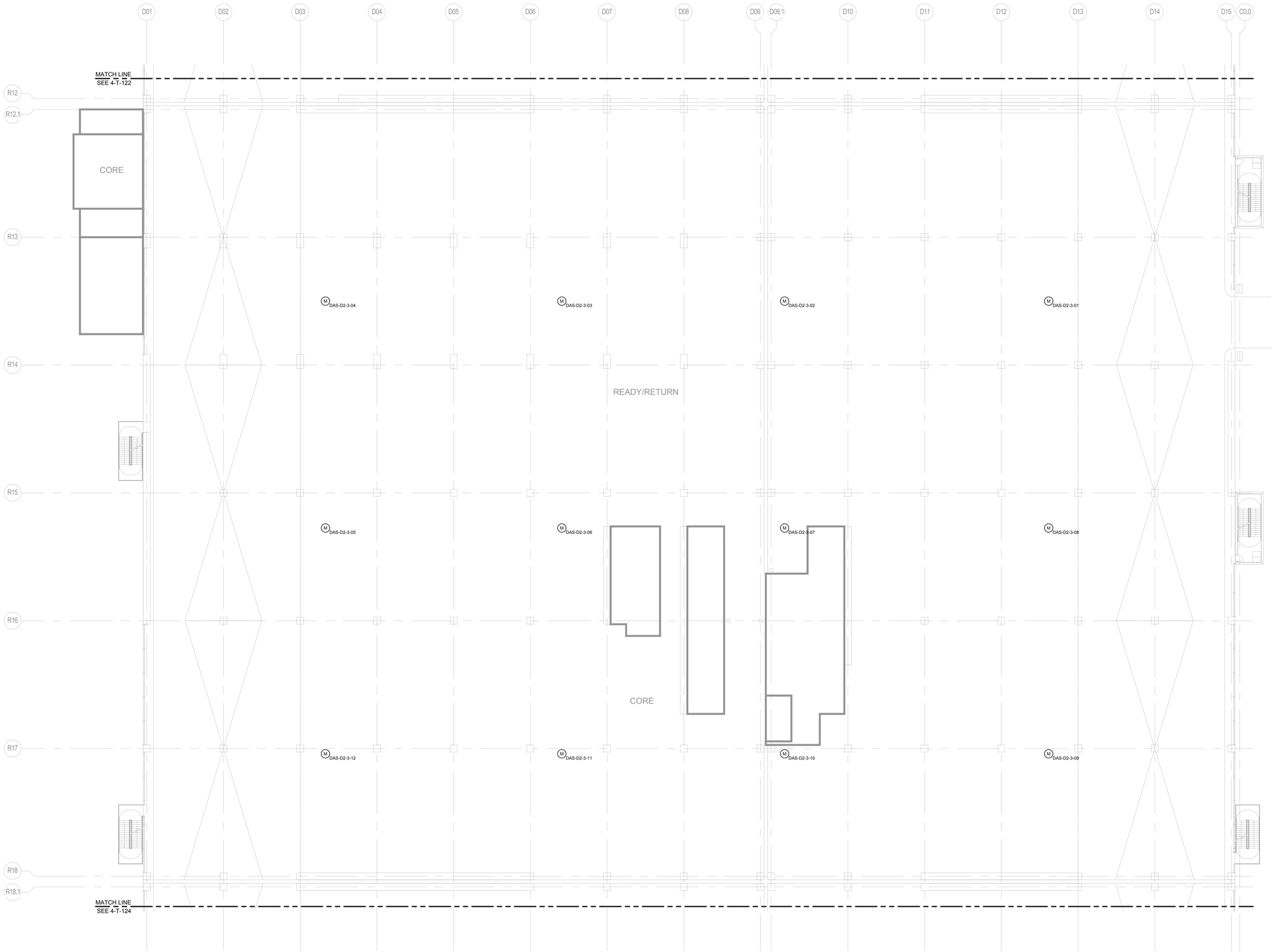

1 BUILDING D - READY/RETURN - TELECOM LEVEL 2 FLOOR PLAN

SCALE: 1/16" = 1'-0"

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TELECOM
LEVEL 2
FLOOR PLAN

SHEET NO.

4-T-123

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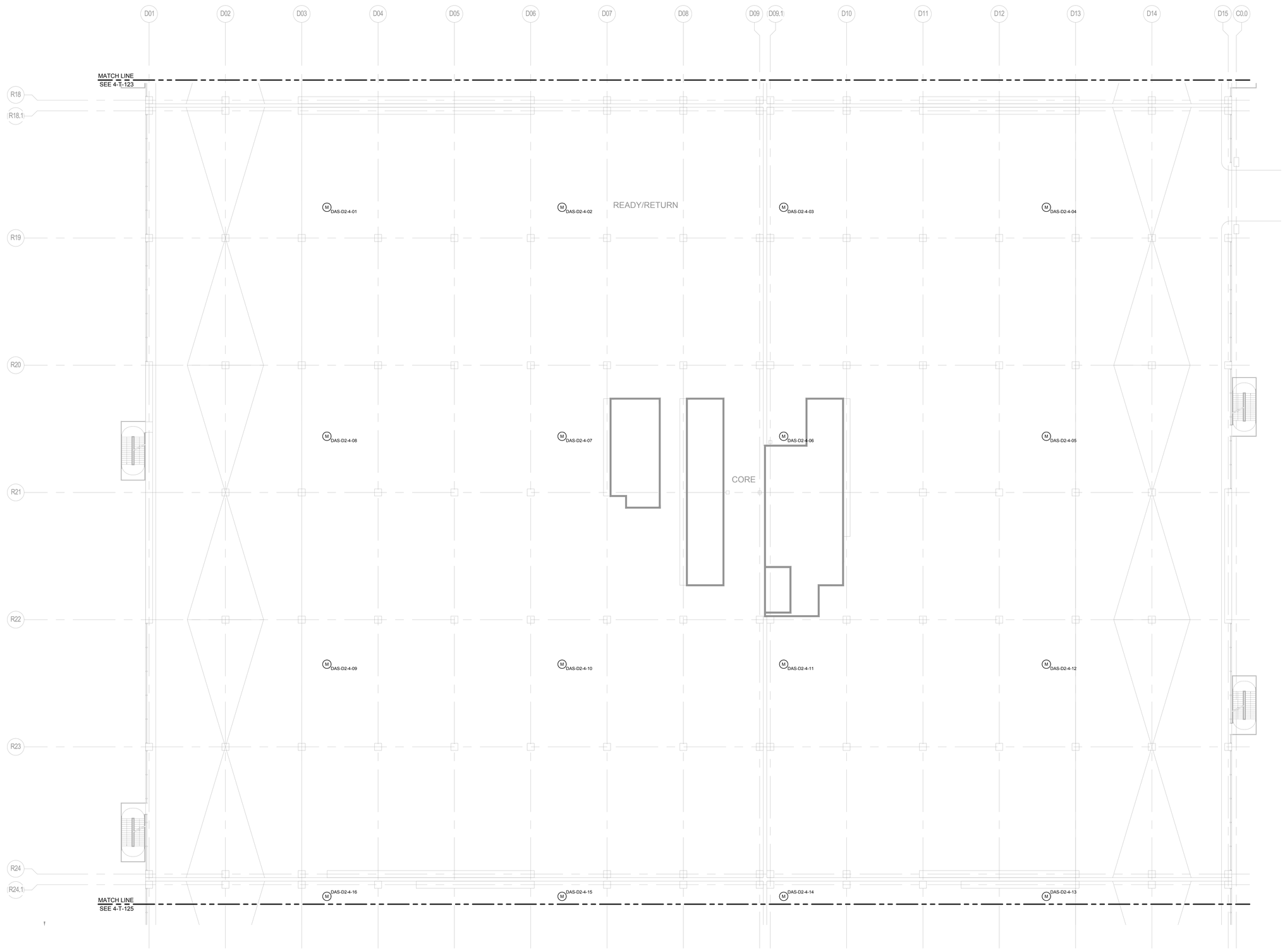

1 BUILDING D - READY/RETURN - TELCOM LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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PROJ NO: DA4881
SCALE: 1/16" : 1-0"
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READY / RETURN
TELECOM
LEVEL 2
FLOOR PLAN

SHEET NO.
4-T-124

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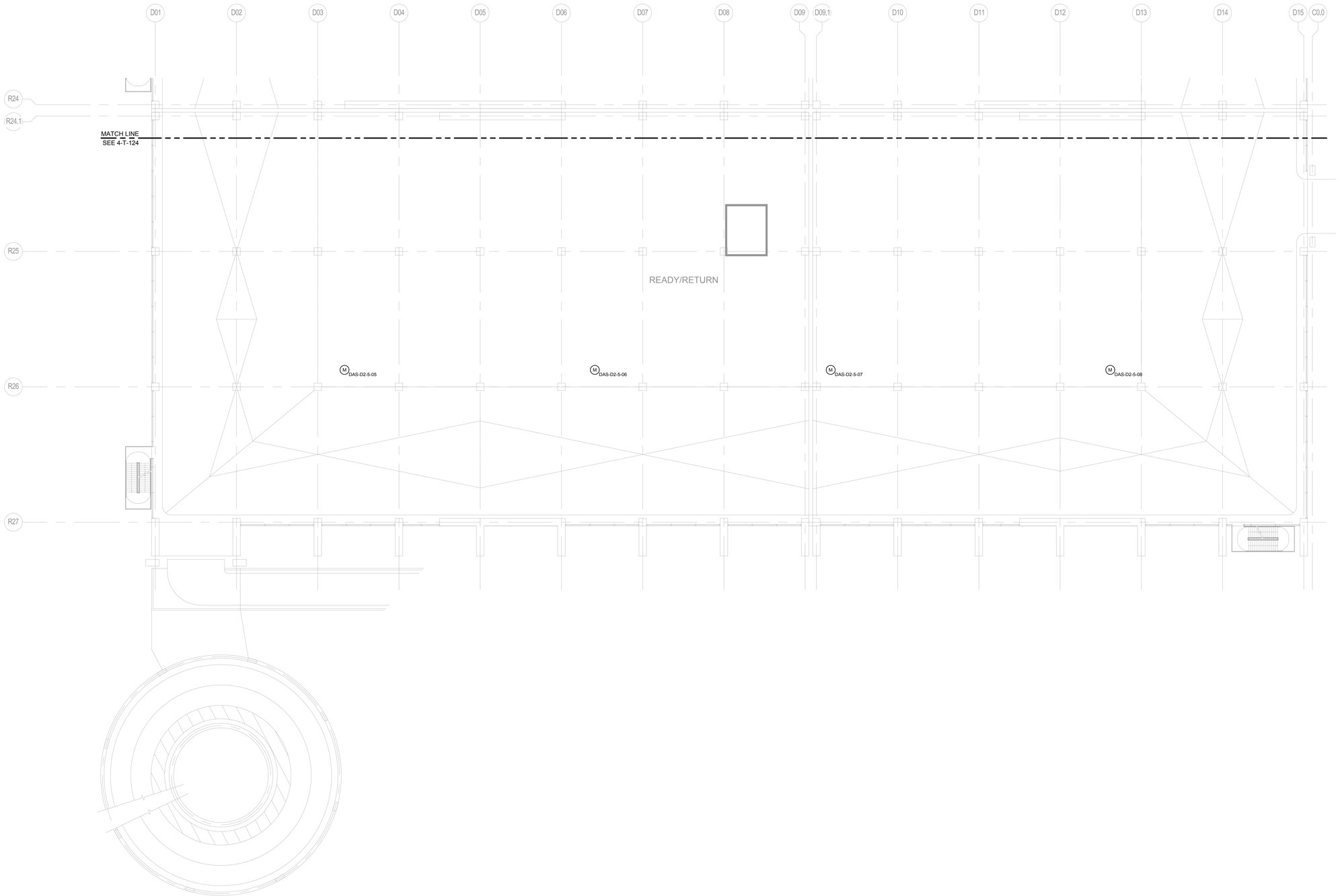

1 BUILDING D - READY/RETURN - TELECOM LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 2
FLOOR PLAN

SHEET NO.
4-T-125

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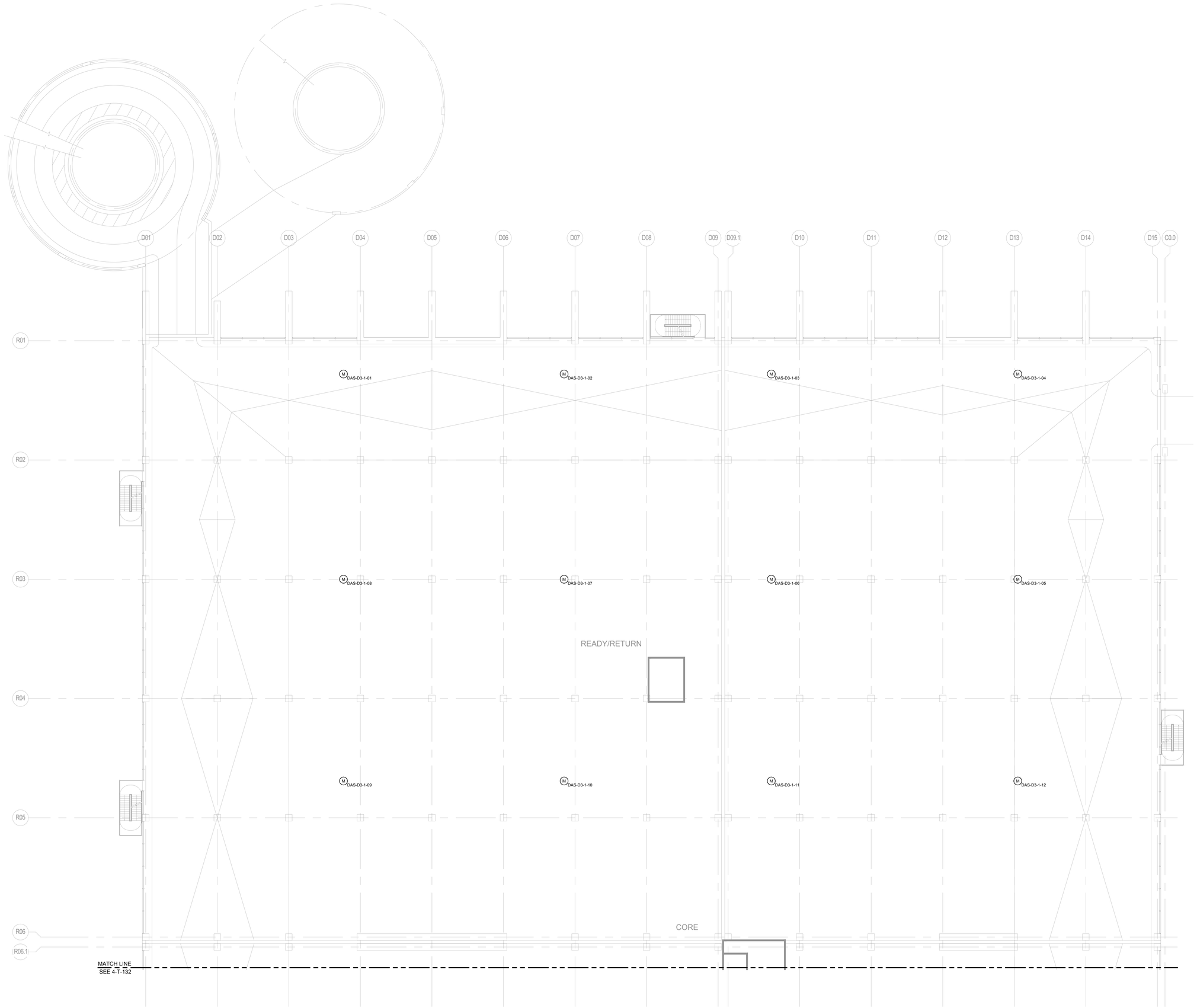

1 BUILDING D - READY/RETURN - TELECOM LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

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SHEET TITLE:

READY / RETURN
TELECOM
LEVEL 3
FLOOR PLAN

SHEET NO.

4-T-131

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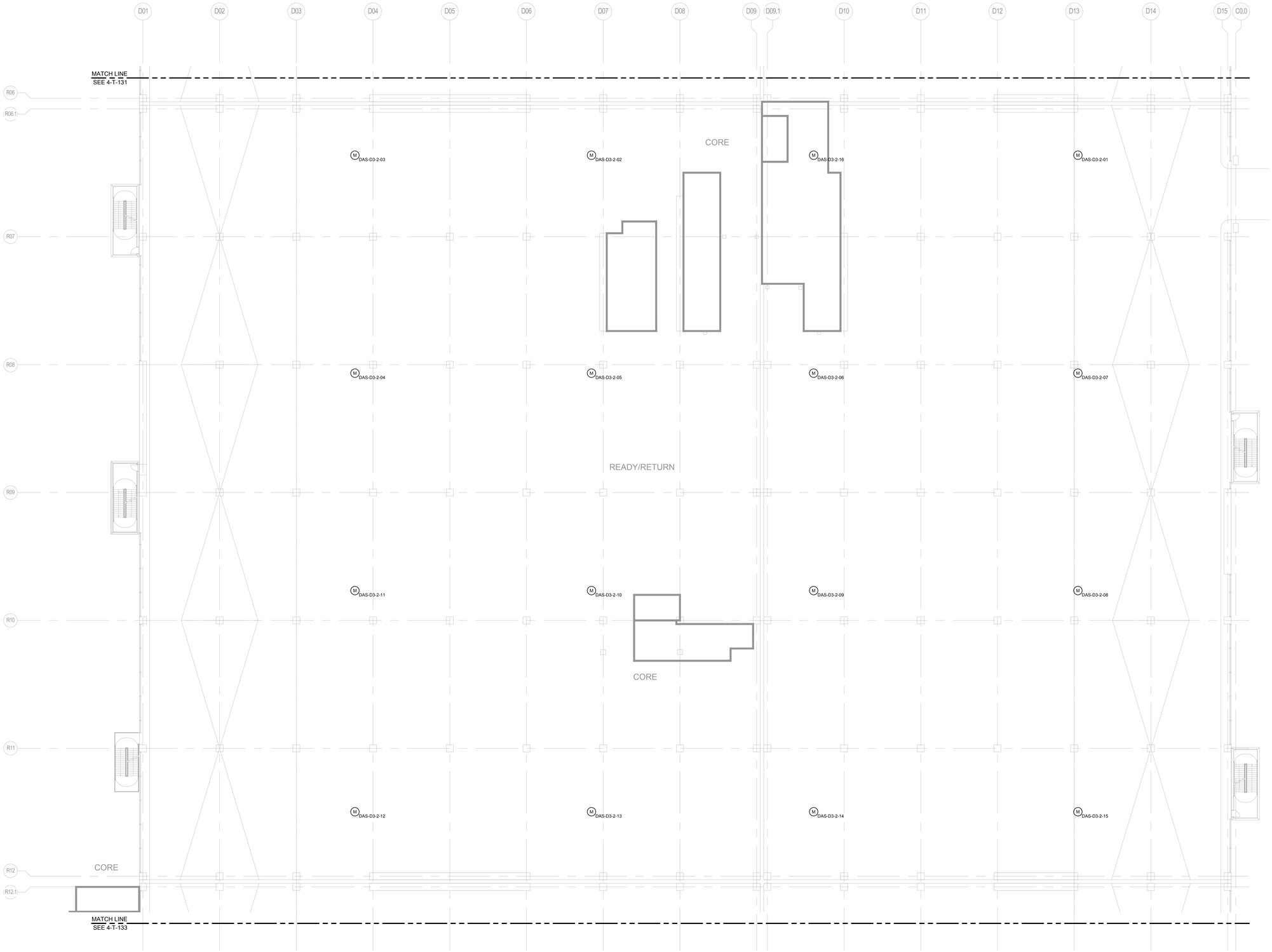

1 BUILDING D - READY/RETURN - TELECOM LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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LEVEL 3
FLOOR PLAN

SHEET NO.
4-T-132

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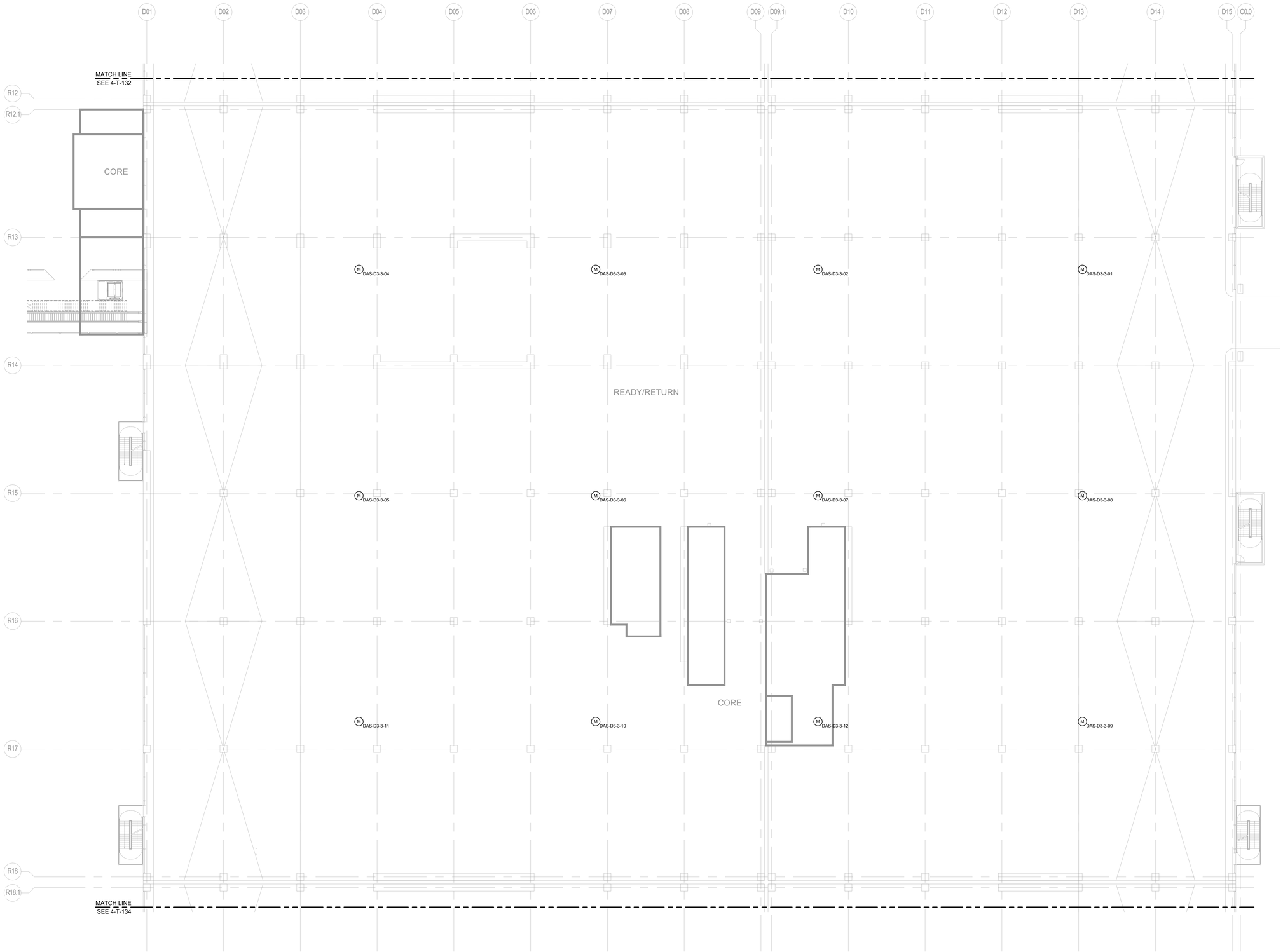

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FLOOR PLAN

SHEET NO.
4-T-133

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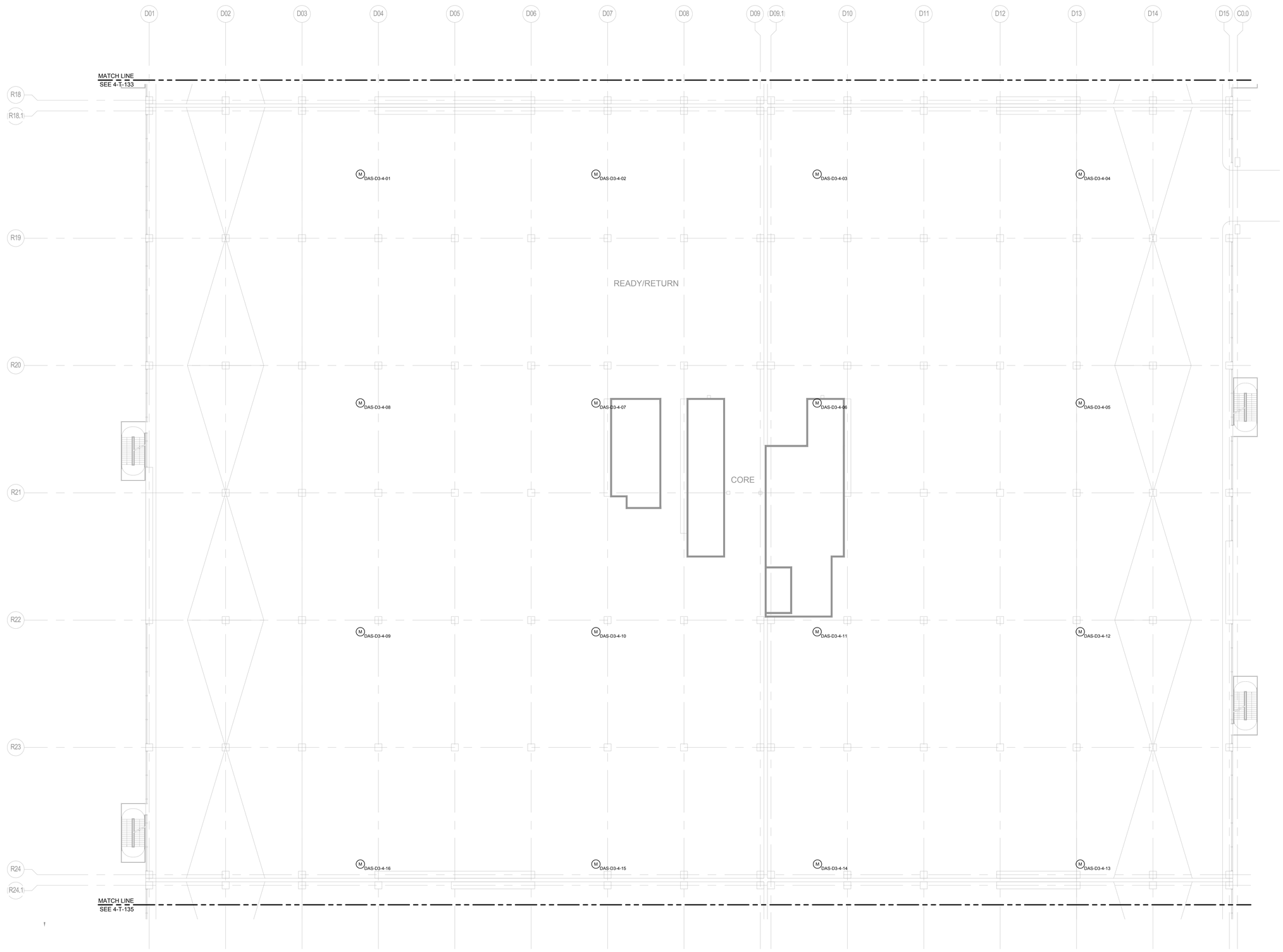

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SHEET NO.
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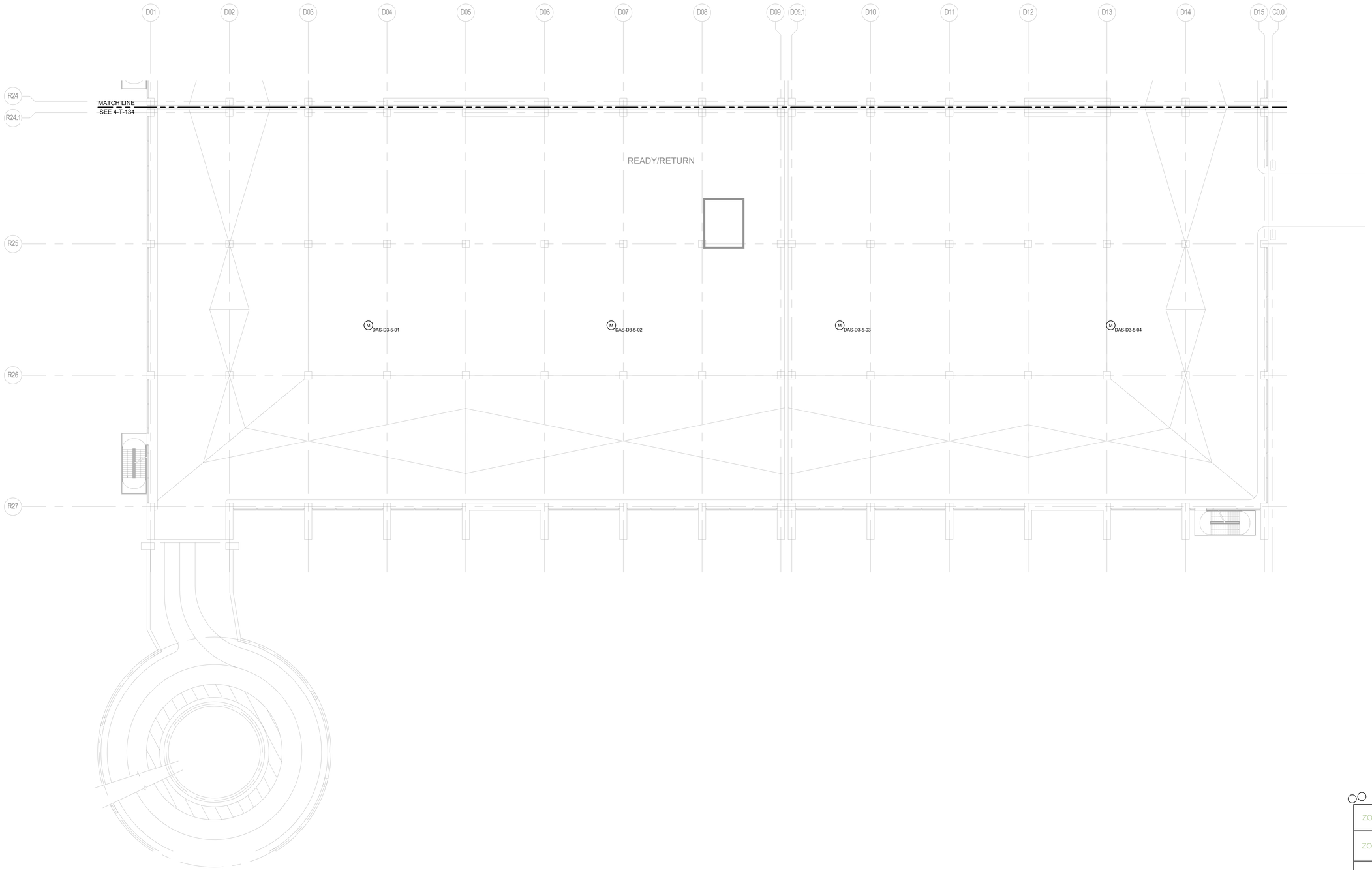

1 BUILDING D - READY/RETURN - TELECOM LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

N

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

NOT FOR CONSTRUCTION

CONSULTANTS:
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6 SOUTH OLD ORCHARD AVENUE
ST. LOUIS, MO 63119
PHONE: 314. 918-1583
FAX: 314. 918-1766

Los Angeles World Airports

Project

LAX Consolidated Rental Car Facility

Los Angeles International Airport

SUBMITTED BY _____ ASST. CHIEF AIRPORTS ENGINEER

APPROVED BY _____ CHIEF AIRPORTS ENGINEER

LAX PMD

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:

READY / RETURN
TELECOM
LEVEL 3
FLOOR PLAN

SHEET NO.

4-T-135

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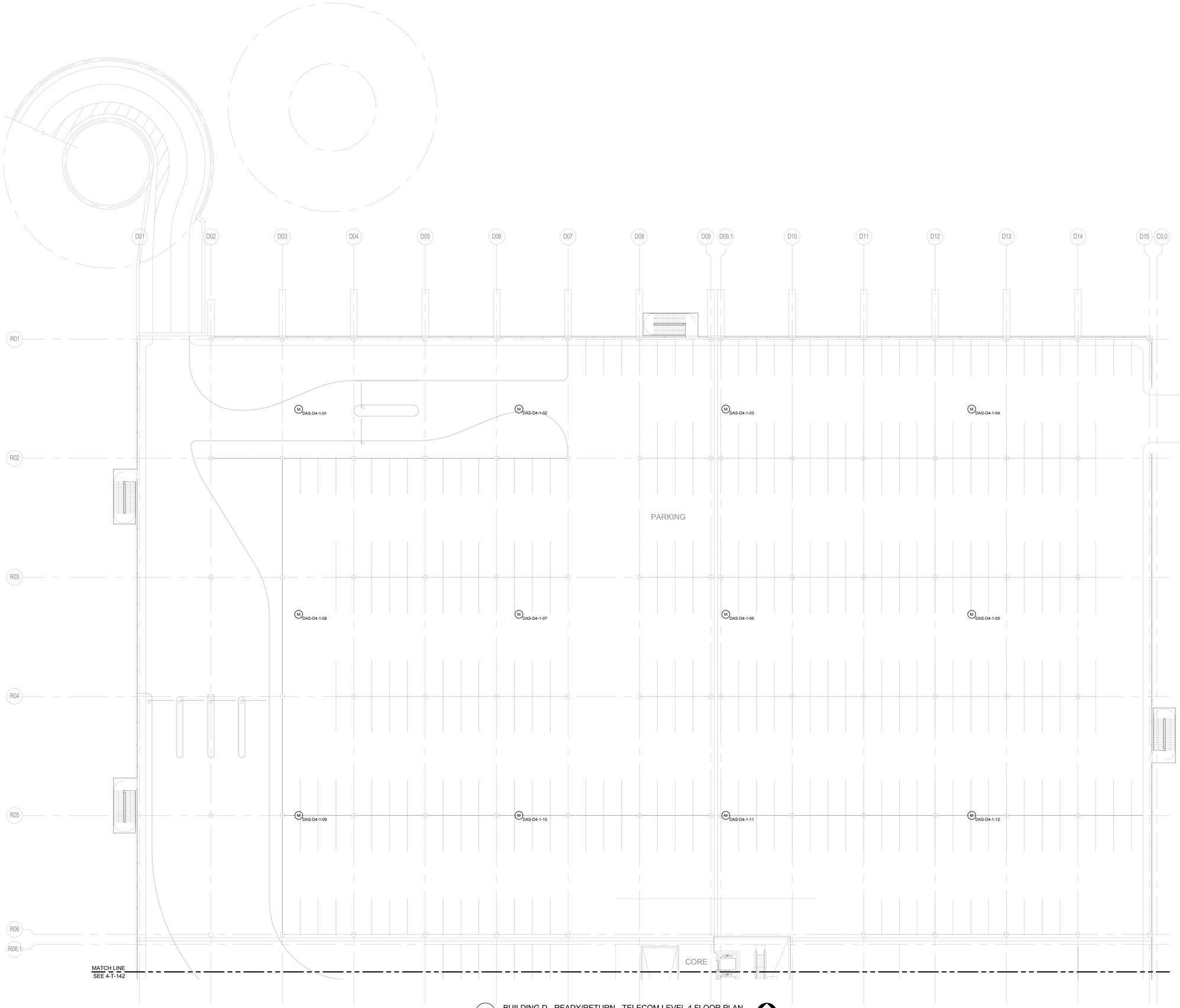

1 BUILDING D - READY/RETURN - TELECOM LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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Los Angeles World Airports

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LAX Consolidated Rental Car Facility

Lo Angele International Airport

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REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 02/04/2016
DESIGNED BY: JWJ
DRAWN BY: RNB
CHECKED BY: NW

SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 4
FLOOR PLAN

SHEET NO.
4-T-141

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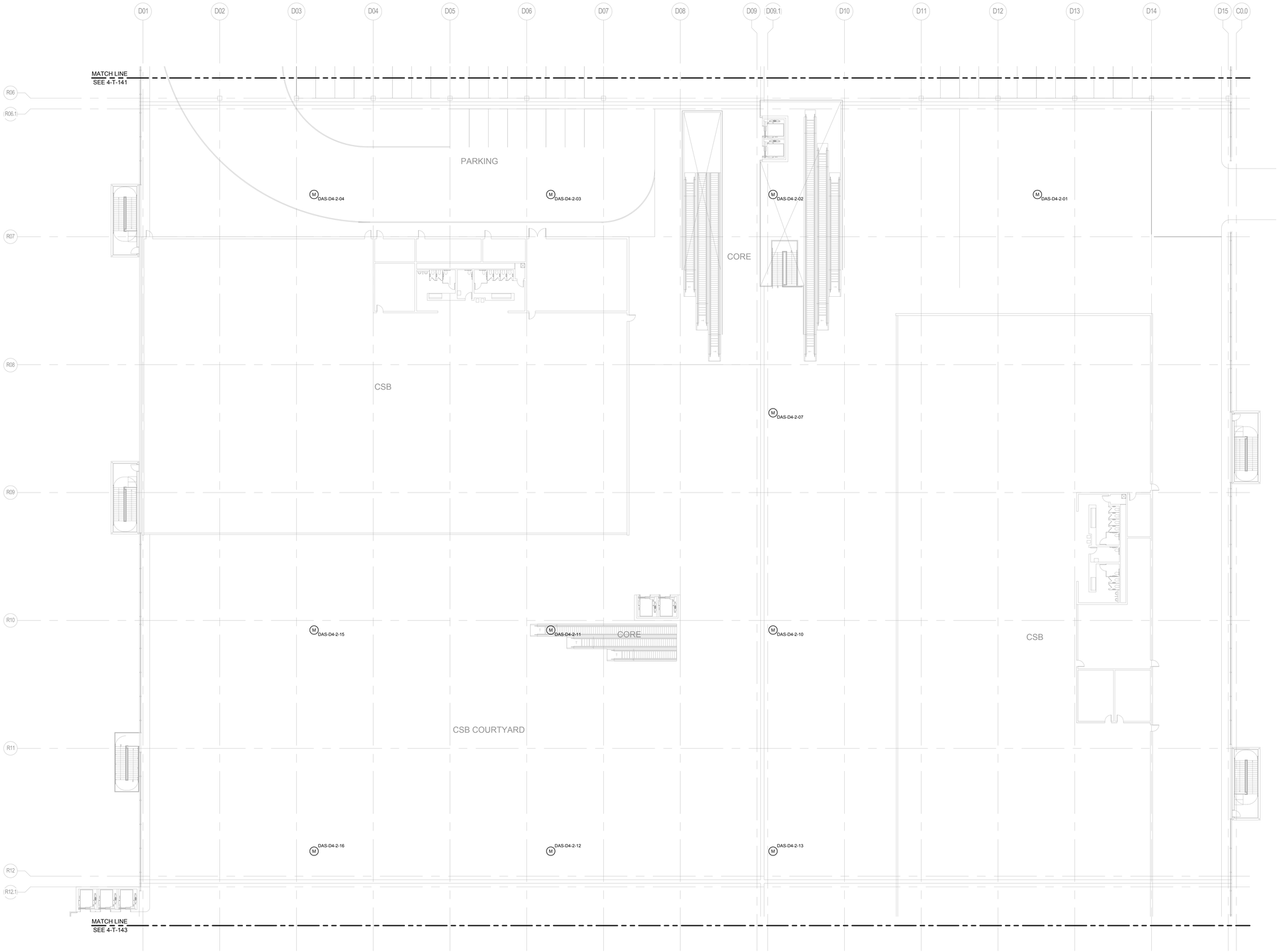

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SUBMITTED BY

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SHEET TITLE:
READY / RETURN
TELECOM
LEVEL 4
FLOOR PLAN

SHEET NO.
4-T-142

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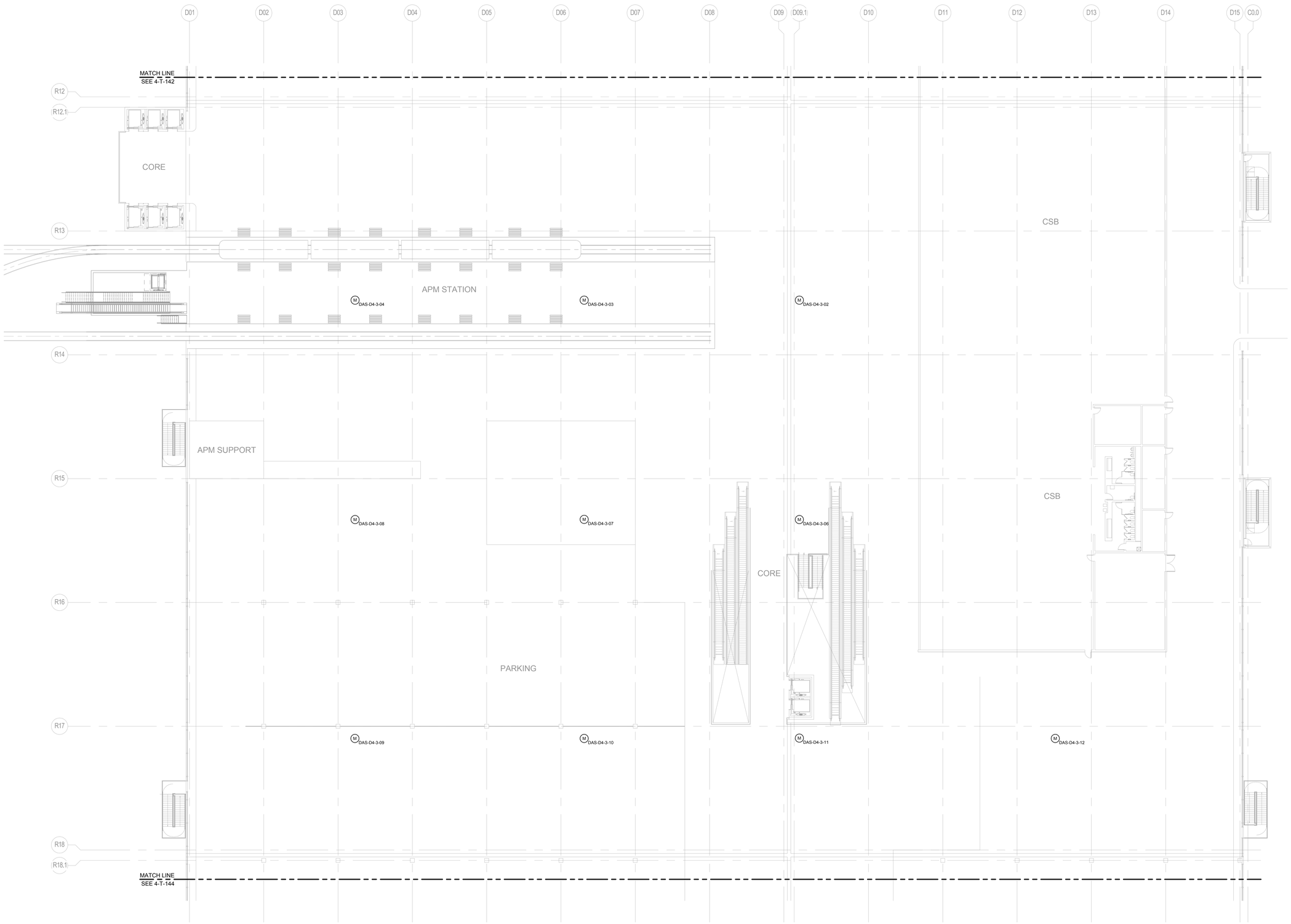

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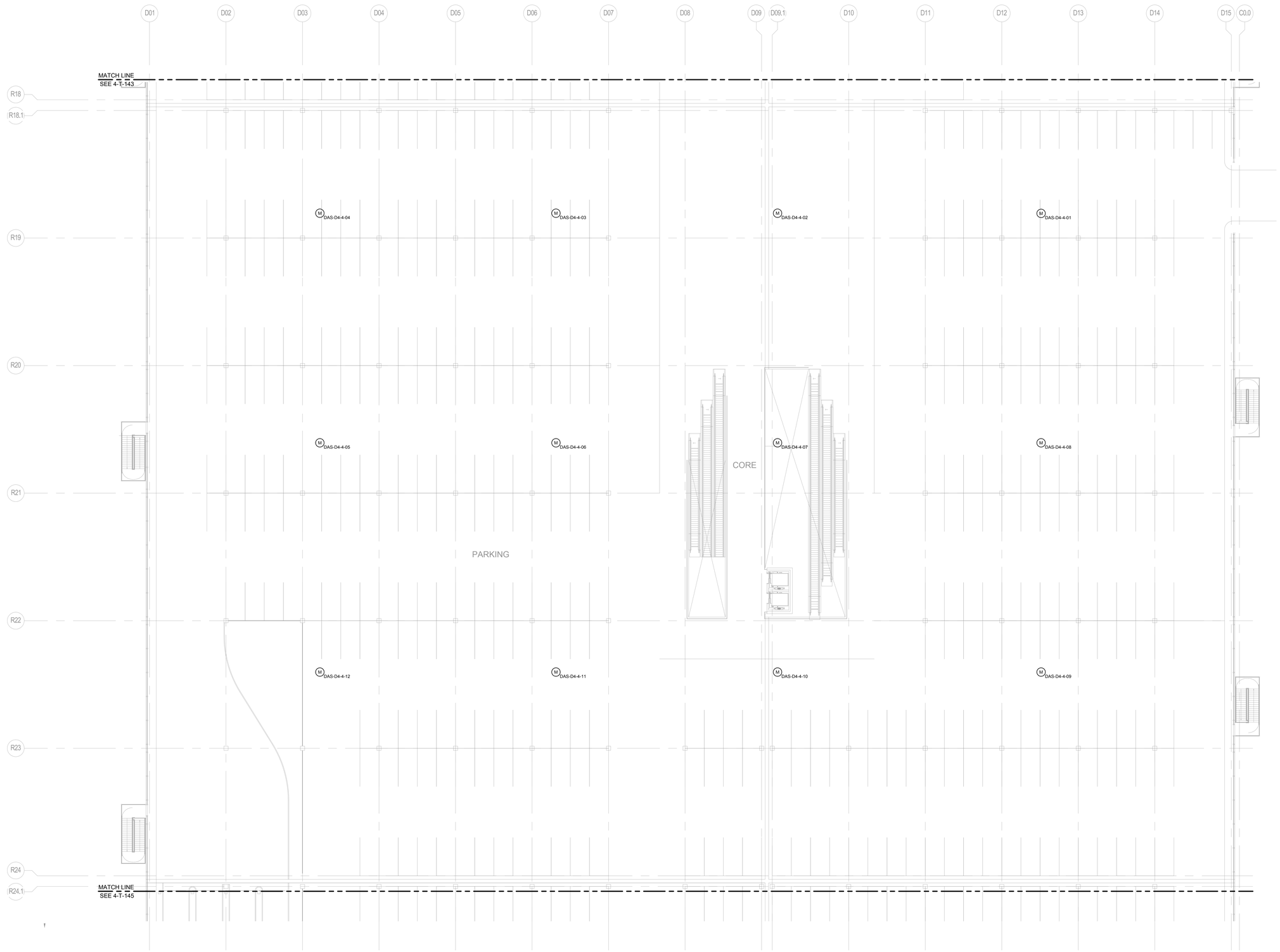

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CHECKED BY:	TW

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READY / RETURN
TELECOM
LEVEL 4
FLOOR PLAN

SHEET NO.

4-T-144

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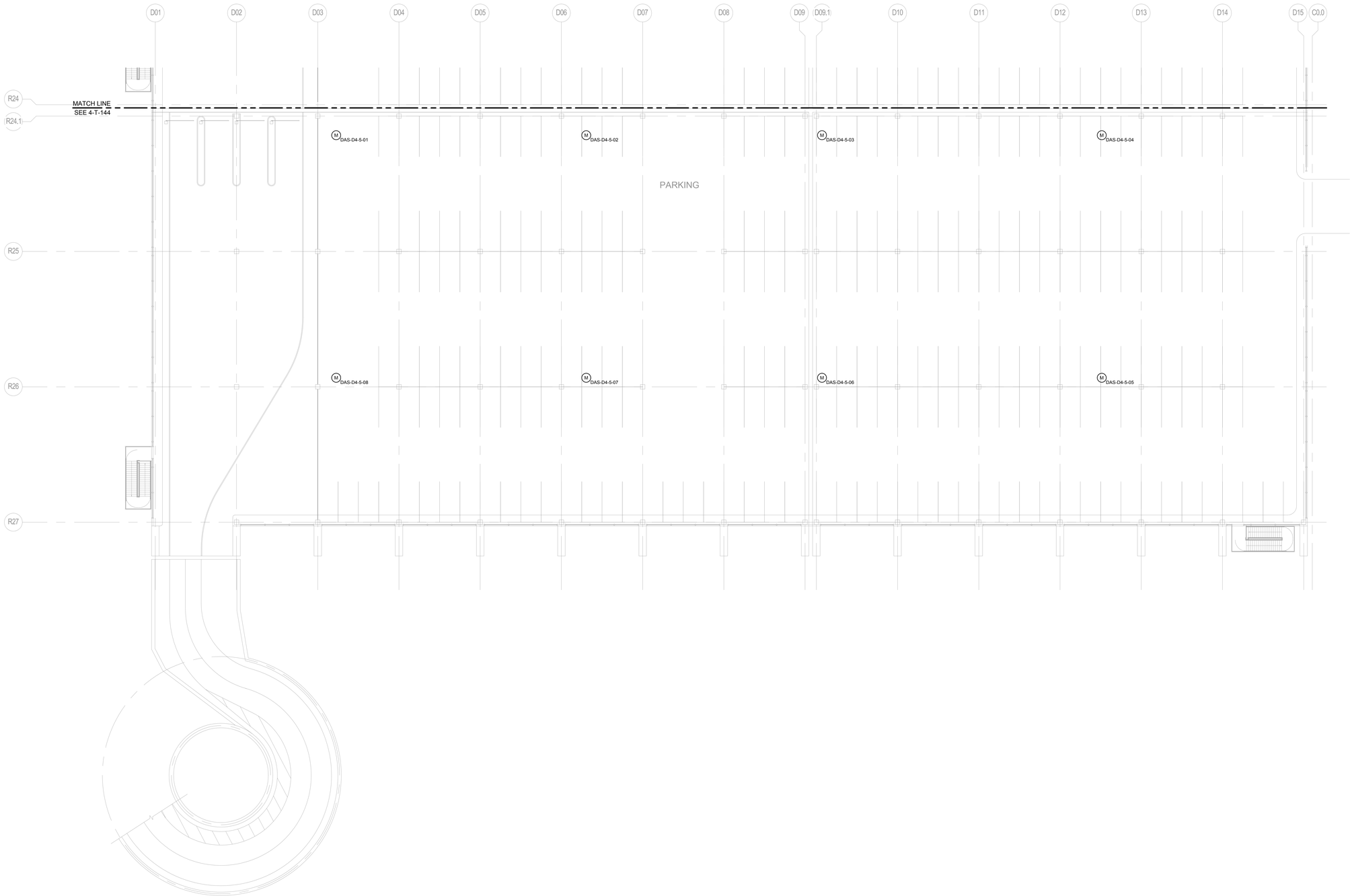

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CHIEF AIRPORTS ENGINEER

ONT PMD LAX

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LEVEL 4
FLOOR PLAN

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4-T-145

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SECURITY SYMBOL LEGENDS

NOTE:

1. ALL SYMBOLS ARE NOT NECESSARILY USED ON THESE PLANS.
2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF ALL DEVICES AND E□UIPMENT UON.
3. IN GENERAL, SYMBOLS SHOWN WITH LIGHT LINES DENOTE EXISTING WORK, SYMBOLS SHOWN WITH HEAVY LINES DENOTE NEW WORK.

DRAWING REFERENCES

Symbol	Description
1 / A101	DETAIL REFERENCE TAG
A / TXXX	EXTERIOR/INTERIOR ELEVATION
A / TXXX / B	INTERIOR MULTI-VIEW ELEVATION
	NORTH ARROW
X	KEYNOTE
1	REVISION NUMBER

CONDUIT AND RACEWAY

Symbol	Description
	CONDUIT RUN CONCEALED IN CEILING OR WALL CONSTRUCTION
	CONDUIT RUN IN FLOOR CONSTRUCTION OR UNDERGROUND DUCTBANK
	CONDUIT RUN EXPOSED
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CABLE TRAY □REFER TO PLANS FOR SIZE□

JUNCTION AND PULL BOXES

Symbol	Description
J	JUNCTION BOX
P	PULL BOX
H	HANDHOLE
MH	MAINTENANCE HOLE

ACCESS CONTROL SYSTEM

Symbol	Description
X / □□□	DOOR TYPE; SACS DOOR DETAIL REFERENCE; ARCHITECTURAL DOOR NUMBER
	DOOR SECURITY LEVEL; HIGHER LEVEL OF SECURITY; LOWER LEVEL OF SECURITY
	SECURE/SIDA DEMARCATION LINE
	STERILE DEMARCATION LINE
A	AUDIBLE ALARM
A/V	COMBINATION AUDIBLE/VISUAL ALARM
DPS	DOOR POSITION SWITCH
CR	CARD READER
CR	CARD READER / KEYPAD
CP	CONTROL PANEL □BY DOOR MANUFACTURER□
D	DOOR INTERFACE BOX
DA	DURESS ALARM
	HANDSET
	PANIC HARDWARE
	ELEVATOR FLOOR CONTROL BUTTON PANEL
	ELEVATOR CALL CONTROL BUTTON PANEL
H	DOOR HOLD DEVICE
	INTERCOM STATION
KP	KEYPAD
KS	KEYSWITCH
IFP	INTELLIGENT FIELD PANEL
MAG	MAGNETIC LOCK
MAG DE	DELAYED EGRESS MAGNETIC LOCK
M	MICROPHONE
	MOTOR / CONVEYOR START/STOP STATION
STOP / DOWN	OVERHEAD DOOR UP/DOWN CONTROL
PIR	MOTION DETECTOR
PS	POWER SUPPLY
	POWER TRANSFER HINGE
PB	PUSHBUTTON
V	VISUAL ALARM
CWS	COMPUTER WORKSTATION

VISUAL SURVEILLANCE SYSTEM

Symbol	Description
	VSS CAMERA - FIXED POSITION TYPE
	VSS CAMERA - PTZ TYPE
CAM-X-Y-□□ X	LEVEL; ZONE; SE□UENTIAL NUMBER; VSS CAMERA TAG; CAMERA TYPE
CWS	COMPUTER WORKSTATION
FPD	FLAT PANEL DISPLAY

SECURITY GENERAL NOTES

INSTALLATION REQUIREMENTS

1. BASIC ELECTRICAL RACEWAY SPECIFICATIONS RE□UIREMENTS SHALL APPLY TO THIS WORK. REFER TO ELECTRICAL SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE ALL OPTICAL FIBER CABLE, INNERDUCT, E□UIPMENT CABINET, PATCH CORDS, PATCH PANELS, RELATED HARDWARE, TERMINATION E□UIPMENT, AND ANY OTHER APPURTENANCES. CONTRACTOR SHALL PROVIDE ALL E□UIPMENT, MATERIALS, LABOR, AND SERVICES NECESSARY TO TEST, LABEL, AND DOCUMENT THE CABLING SYSTEM, AND TO ENSURE THAT IT IS IN COMPLIANCE WITH RE□UIREMENTS STATED HEREIN.
3. CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS, CONDUIT, AND JUNCTION BOXES □40□ MAXIMUM FILL□ INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE □NEC□AND ALL LOCAL CODES HAVING JURISDICTION. TELECOM CONDUIT FILL SHALL NOT EXCEED 40□.
4. 120 VAC INPUT POWER CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT OR CABLE TRAY AS LOW VOLTAGE AUDIO, VIDEO, DC POWER, UTP OR ANY OTHER LOW VOLTAGE CABLES.
5. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLAION OF WORK OF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY CONFLICTS OR PROBLEMS ARE DISCOVERED.
6. INNERDUCT SHALL BE INSTALLED IN ALL CONDUITS IN WHICH FIBER CABLING IS TO BE INSTALLED. ALL OPTICAL FIBER CABLES SHALL BE PLACED WITHIN INNERDUCT. INNERDUCT SHALL MEET NEC 770-53 RE□UIREMENTS, BE 1-INCH DIAMETER, BE ORANGE IN COLOR AND HAVE A UL 910 FLAME RATING UNLESS NOTED OTHERWISE ON DUCT INSTALLATION DRAWINGS OR PREVIOUSLY INSTALLED.
7. INSTALL TRUE TAPE TYPE PULL STRINGS IN ALL DUCTS, CONDUITS OR INNERDUCTS. REPLACE PULL STRINGS THAT ARE USED WITH E□UIVALENT PULL STRINGS.
8. OPTICAL FIBER PATCH PANELS SHALL BE PROVIDED AS SHOWN ON DRAWINGS AND SHALL INCLUDE THE FOLLOWING IN □UANTITIES AS NECESSARY:
   A. BEJED, BJ-1646-047, METAL 6 PORT, SC DIE-CUT ADAPTER PLATE
   B. ALCOA FUJIKURA C080810, GREEN, SC-APC ADAPTERS
   C. BEJED BJ-1742C-011, 24 FIBER SPLICE TRAY□INCLUDING METAL ROD REINFORCED HEATH SHRINKABLE FUSION SPLICE PROTECTOR SLEEVES□
   E. CORNING SC-APC POLISHED PIGTAILS OR E□UIVALENT
   F. PROVIDE CORNING ULTRA-PC POLISHED PIGTAILS OR E□UIVALENT
9. PROVIDE PATCH CABLES OR DUPLEX JUMPERS FROM EXISTING PATCH PANELS TO NEW FIBER PATCH PANELS. VERIFY WITH OWNER CONNECTOR TYPE ON EXISTING PATCH PANELS BEFORE ORDERING PATCH CABLES OR JUMPERS.
10. CONTRACTOR SHALL ONLY FUSION SPLICE PIGTAILS THAT HAVE HAD CONNECTORS INSTALLED AND POLISHED BY THE MANUFACTURER OR LOCAL CABLE ASSEMBLY HOUSE. THE CONTRACTOR SHALL NOT INSTALL OR POLISH FIBER OPTIC CONNECTORS, EITHER IN THE FIELD OR IN THEIR SHOP. PIGTAILS SHALL HAVE THE SAME GLASS SPECIFICATION AS THE FIBER CABLE. FOR SINGLEMODE FIBER, ONLY SC-APC, ANGLE POLISHED PRE-CONNECTORIZED, PRE-TERMINATED PIGTAILS SHALL BE FUSION SPLICED TO THE CABLE. ACCEPTABLE PRODUCTS: CORNING SMF-28e□GLASS.
11. OUTSIDE PLANT FIBER SHALL BE SINGLEMODE OUTSIDE PLANT RATED CORNING OPTICAL FIBER SMF28e□ OR BETTER APPROVED E□UIVALENT. FIBER CABLE JACKETING SHALL BE EITHER CORNING ALTOS ALL DIELECTRIC GEL FREE OR APPROVED E□UIVALENT.
12. ALL CABLES SHALL BE CONTINUOUS FROM THE SOURCE TO THE DESTINATION AND SHALL NOT HAVE SPLICES IN BETWEEN PATCH PANELS EXCEPT IN MANHOLE 235 AS NOTED ON DRAWINGS.
13. CONTRACTOR SHALL USE FUSION SPLICER WITH VIEWING OPTICS, MAGNIFIED VISUAL DISPLAY, OR OTHER IMAGE PROCESSING SOFTWARE TO PERFORM CORE ALIGNMENT AND □UALITY VERIFICATION □FUJIKURA FSM-50S OR E□UIVALENT□ PERMITTED FUSION SPLICE LOSS IS 0. 015DB MAXIMUM. SPLICES THAT DO NOT MEET MAXIMUM SPLICE LOSS RE□UIREMENTS SHALL BE RESPLICED AND RETESTED.
14. SERVICE LOOPS OF 15 FEET SHALL BE PROVIDED AT ALL CABLE ENDS. OUTDOOR CABLES IN MANHOLES SHALL HAVE 30 FEET OF SLACK FOR A SERVICE LOOP.

TESTING AND LABELING REQUIREMENTS

1. CONTRACTOR SHALL TEST ALL STRANDS OF OPTICAL FIBER WITH AN APPROVED POWER METER AND LIGHT SOURCE. TESTER SHALL BE CAPABLE OF PERFORMING THE TESTS RE□UIRED BY ANSI/TIA/EIA-568-C 2.1 ANNEX H, ANSI/TIA/EIA-526-14A, AND ANSI/TIA/EIA-526-7.
2. PRIOR TO SHIPMENT OF THE OPTICAL FIBER CABLE, 100 PERCENT OF THE FIBERS SHALL BE TESTED WITH AN OPTICAL TIME DOMAIN REFLECTOMETER □OTDR□ COPIES OF THE TRACES SHALL BE FURNISHED AS PART OF THE SUBMITTALS. UPON DELIVERY TO THE SITE ALL FIBER STRANDS SHALL BE TESTED WITH AN OTDR BEFORE INSTALLATION BEGINS. SUBMIT □2□ PAPER COPIES BEFORE INSTALLATION BEGINS.
3. THE CONTRACTOR SHALL VERIFY THE INTEGRITY OF THE INSTALLED FIBER BY TESTING WITH AN OTDR. TEST SHALL BE PERFORMED ON 100 PERCENT OF THE FIBERS AND REPEATED FROM THE OPPOSITE END OF EACH FIBER OR PERFORMED WITH A LAUNCH CABLE AT EACH END. SUBMIT COPIES OF TRACES.
4. IF OTDR TEST RESULTS ARE UNSATISFACTORY DUE TO CABLE DAMAGE, CABLE SEGMENT IS UNACCEPTABLE AND SHALL BE REPLACED AT CONTRACTOR□S EXPENSE.
5. PROVIDE END-TO-END ATTENUATION TESTING USING AN APPROVED POWER METER AND LIGHT SOURCE PER ANSI/TIA/EIA 455-53A.
6. FIBER SHALL BE TESTED IN BOTH DIRECTIONS AT BOTH 1310 NM AND 1550 NM. PERFORM OPTICAL ATTENUATION MEASUREMENTS FOR EACH OPTICAL FIBER AFTER CABLES HAVE BEEN CONNECTORIZED, DRESSED AND MOUNTED INTO PANELS TO SHOW LOSSES OF CABLE, CONNECTORS AND COUPLERS. ACCEPTABLE ATTENUATION FOR OSP BACKBONE CABLING IS 0.5 DB/KM AT BOTH TEST FRE□UENCIES.
7. ALL CABLES AND PATCH CABLES SHALL HAVE A PERMANENT LABEL ATTACHED AT BOTH ENDS.
8. ALL INDOOR CABLE AND PATCH CABLE LABELS SHALL BE PRE-PRINTED USING BRADY TLS 2200 PRINTER OR E□UIVALENT AND SHALL BE PLACED LOOSE ON THE PATCH CABLE NEAR THE CONNECTOR END WITHOUT HEAT SHRINKING LABELS. LABELS SHALL USE A THREE LINE FORMAT WITH THE ORIGINATION PATCH PANEL AND PORT ON THE FIRST LINE, THE DESTINATION PATCH PANEL AND PORT ON THE SECOND LINE AND THE SYSTEM OR OTHER DESCRIPTIVE INFORMATION ON THE THIRD LINE. SEE LAWA ITMG FOR SAMPLE LABELS.
9. PATCH PANELS SHALL BE LABELED ON THE FRONT PANEL WITH 1" BLACK CHARACTERS ON A "SAFETY ORANGE" BACKGROUND LETTERING 3M KIT 5005-KIT OR E□UIVALENT.
10. ALL OUTDOOR CABLES SHALL BE LABELED WITH ACP FT-LAWATAG-2.5X4 PLASTIC TAGS AND PRE-PRINTED WITH PERMANENT INK. OUTDOOR CABLES SHALL BE LABELED □AND SECURED WITH HEAVY DUTY STRAPS□IN EVERY MANHOLE AND HANDHOLE WITHIN 12 INCHES OF WHERE THE CABLE INTERS THE MANHOLE, WITHIN 12 INCHES OF WHERE THE CABLE EXITS THE MANHOLE AND ON THE SLACK COIL.

SUBMITTAL REQUIREMENTS

1. SUBMIT FOR APPROVAL MANUFACTURER□S DATA SHEETS FOR ALL PROPOSED MATERIALS AND E□UIPMENT. SUBMIT A TWO-FOOT LENGTH SAMPLE OF EACH FIBER CABLE TYPE/COUNT TO BE INSTALLED.
2. SUBMIT CALIBRATION REPORTS FOR ALL TEST E□UIPMENT. THE CALIBRATION SHALL BE PERFORMED BY A MANUFACTURER CERTIFIED CALIBRATION FACILITY AND BE DATED NO MORE THAN SIXTY □60□DAYS PRIOR TO THE START OF TESTING.
3. SUBMIT □5□HARDBOUND COPIES OF ALL CABLE TEST RESULTS AND ONE ELECTRONIC COMPACT DISC.
4. SUBMIT ALL PROPOSED LABELING MATERIALS AND NOMENCLATURE FOR APPROVAL.
5. CONTRACTOR SHALL MAINTAIN A SET OF CONTRACT DRAWINGS DURING INSTALLATION AND RED-LINE MARK THEM TO INDICATE ANY CHANGES AS THEY OCCUR.
6. CONTRACTOR SHALL PROPOSE A TEAM THAT IS □UALIFIED TO PERFORM THE WORK OF THIS PROJECT □SUBMIT PROJECT BRIEFS AND RESUMES□INCLUDING AN EXPERIENCED PROJECT MANAGER THAT WILL SERVE AS A SINGLE POINT OF CONTACT AND RESPONSIBILITY FOR THE CONTRACTORS TEAM.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC MANAGEMENT AND SHALL SUBMIT TO LAWA AIRPORT AND FACILITIES PLANNING DIVISION ALL PROPOSED TRAFFIC MANAGEMENT METHODS AND PRODUCTS FOR APPROVAL. OUTSIDE PLANT CABLE INSTALLATION THAT RE□UIRES OBSTRUCTION OF TRAFFIC SHALL BE DONE ON THE NIGHT SHIFT.
8. THE FIBER CABLING CONTRACTOR SHALL BE A CERTIFIED CORNING OPTICAL CABLE INSTALLER, WITH THE CAPABILITY OF PROVIDING A MANUFACTURER□S CERTIFICATION OF NOT LESS THAN FIFTEEN □15□YEARS FOR THE INSTALLED CABLING AND ASSOCIATED TERMINATION E□UIPMENT. THE CONTRACTOR SHALL SUBMIT PROOF OF CERTIFICATION TO OWNER PRIOR TO COMMENCING WORK. PROVIDE MAXIMUM INSTALLATION WARRANTY OFFERED BY THE MANUFACTURER.
9. PROJECT RECORD DOCUMENTS □AS-BUILTS□WILL BE PROVIDED UPON COMPLETION OF THE INSTALLATION. DRAWINGS WILL BE UPDATED ELECTRONICALLY AND SUBMITTED TO LAWA IN ACCORDANCE WITH THE SCHEDULE PROVIDED FOR THIS BY LAWA. DO NOT WAIT UNTIL THE END OF THE PROJECT. SUBMIT RECORD DRAWING FILES IN AUTOCAD RELEASE 2008 OR LATER.
10. CONTRACTOR WILL BE RE□UIRED TO ATTEND REGULAR WEEKLY PROGRESS MEETINGS AND SUBMIT PROJECT STATUS REPORTS AND UPDATED SCHEDULES.

SECURITY ABBREVIATIONS

Abbr.	Meaning
A/V	AUDIO/VISUAL
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIF	ALARM INTERFACE UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BBH	BACKBONE HUB
BC	BELOW CEILING
BMS	BALANCED MAGNETIC SWITCH
C	CONDUIT
CAM	VSS CAMERA
CAT	CATEGORY
CBIS	CHECKED BAGGAGE INSPECTION SYSTEM
CBP	CUSTOMS AND BORDER PATROL
CBRA	CHECKED BAGGAGE RESOLUTION AREA
CCT	COMMUNICATION CABLE TRAY
CH	CHANNEL
CIB	CAMERA INTERFACE BOX
CLG	CEILING
COMM	COMUNICATIONS
CPU	CENTRAL PROCESSING UNIT
CR	CARD READER
CTX	COMPUTER TOMOGRAPHY X-RAY
DEMO	DEMOLISH
DIB	DOOR INTERFACE BOX
DPDT	DOUBLE POLE DOUBLE THROW
DPS	DOOR POSITION SWITCH
DVR	DIGITAL VIDEO RECORDING
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
EGR	EGRESS
ELC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
E□	E□UALIZER
EX	EXISTING
F	FIXED POSITION CAMERA
FACP	FIRE ALARM CONTROL PANEL
FAR	FEDERAL AVIATION REGULATION
FIS	FEDERAL INSPECTION SERVICE
FO	FIBER OPTIC
GC	GENERAL CONTRACTOR
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IFP	INTELLIGENT FIELD PANEL
IR	INFRARED
IRM	INFORMATION AND RESOURCE MANAGEMENT
IT	INFORMATION TECHNOLOGY
LAN	LOCAL AREA NETWORK
LFMC	LI□UIT TIGHT FLEXIBLE METALLIC CONDUIT
LMP	LOCAL MICRO PROCESSOR □PANEL□
LVL	LEVEL
MAG	ELECTROMAGNETIC LOCK
MCR	MAIN COMMUNICATIONS ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MMFO	MULTI-MODE FIBER OPTIC
MOD	MODULE
NIC	NOT IN CONTRACT
O/P	OUTPUT
OH	OVERHEAD
OPS	OPERATIONAL
OTS	OFF THE SHELF
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PIN	PERSONAL IDENTIFICATION NUMBER
PIR	PASSIVE INFRARED
PP	PATCH PANEL
PR	PAIR
PS	PUBLIC SIDE
PTZ	PAN/TILT/ZOOM CAMERA
PVC	POLYVINYL CHLORIDE CONDUIT
REX	RE□UEST FOR EXIT
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMU	RACK UNIT
RU	RACK MOUNTED UNIT
SACS	SECURITY ACCESS CONTROL SYSTEM
SHLD	SHIELDED □AS IN CABLE□
SIDA	SECURE IDENTIFICATION DISPLAY AREA
SJB	SECURITY JUNCTION BOX
SMFO	SINGLE-MODE FIBER OPTIC
SPP	SYSTEM POWER PANEL
SS	STAINLESS STEEL
SSCP	SECURITY SCREENING CHECKPOINT
TBD	TO BE DETERMINED
TDS	TELECOMMUNICATION DISTRIBUTION SYSTEM
TSA	TRANSPORTATION SECURITY AGENCY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USCBP	UNITED STATES CUSTOMS AND BORDER PROTECTION
VA	VOLT AMPS
VAC	VOLT ALTERNATING CURRENT
VDC	VOLT DIRECT CURRENT
VE	VOICE EVACUATION
VoiP	VOICE OVER INTERNET PROTOCOL □IP□
VSS	VIDEO SURVEILLANCE SYSTEM
W	WALL
WT	WATERTIGHT
XMTR	TRANSMITTER

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Los Angeles World Airports

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SUBMITTED BY ________ ASST. CHIEF AIRPORTS ENGINEER

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REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: NONE
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R□B
CHECKED BY: TW

SHEET TITLE: SECURITY LEGEND, NOTES, AND ABBREVIATIONS

SHEET NO. 4-TY-001

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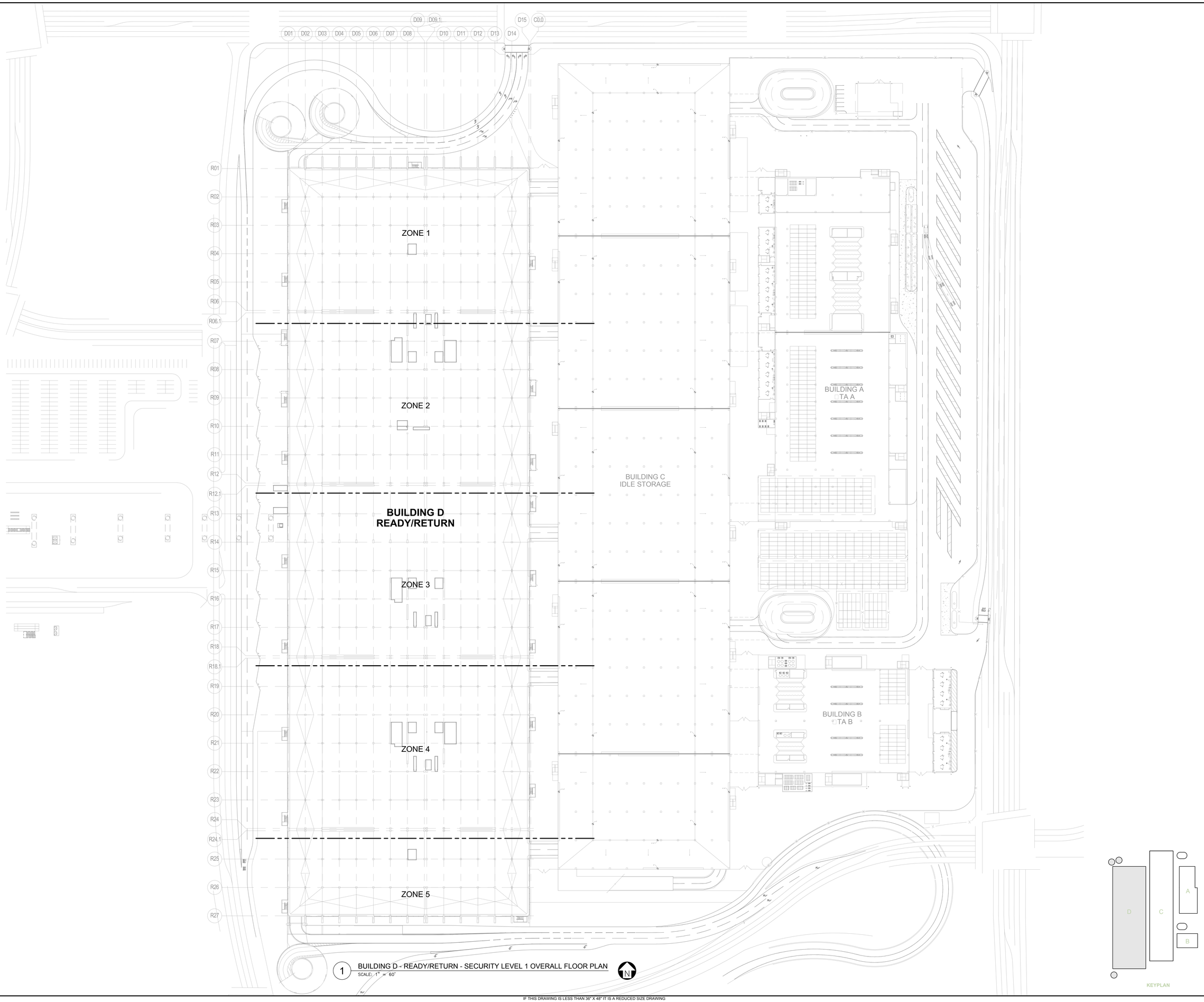

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 OVERALL FLOOR PLAN
SCALE: 1" = 60'

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DATE: 07/01/2016
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SHEET TITLE:
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SHEET NO.
4-TY-010

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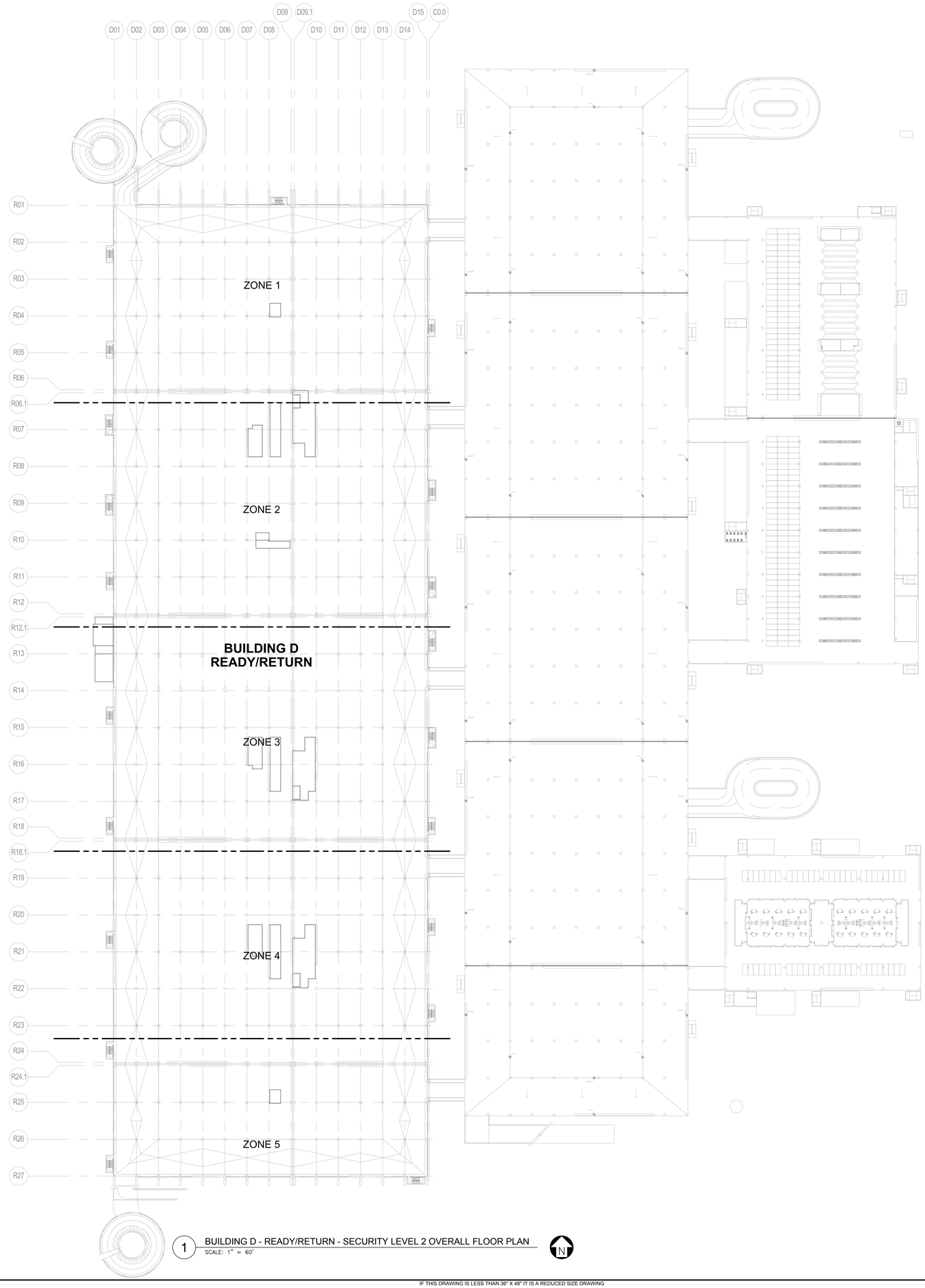

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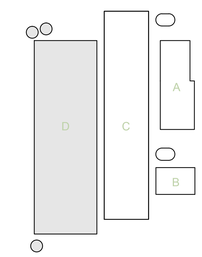

KEYPLAN

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SHEET TITLE:

READY / RETURN SECURITY LEVEL 2 OVERALL FLOOR PLAN

SHEET NO.

4-TY-020

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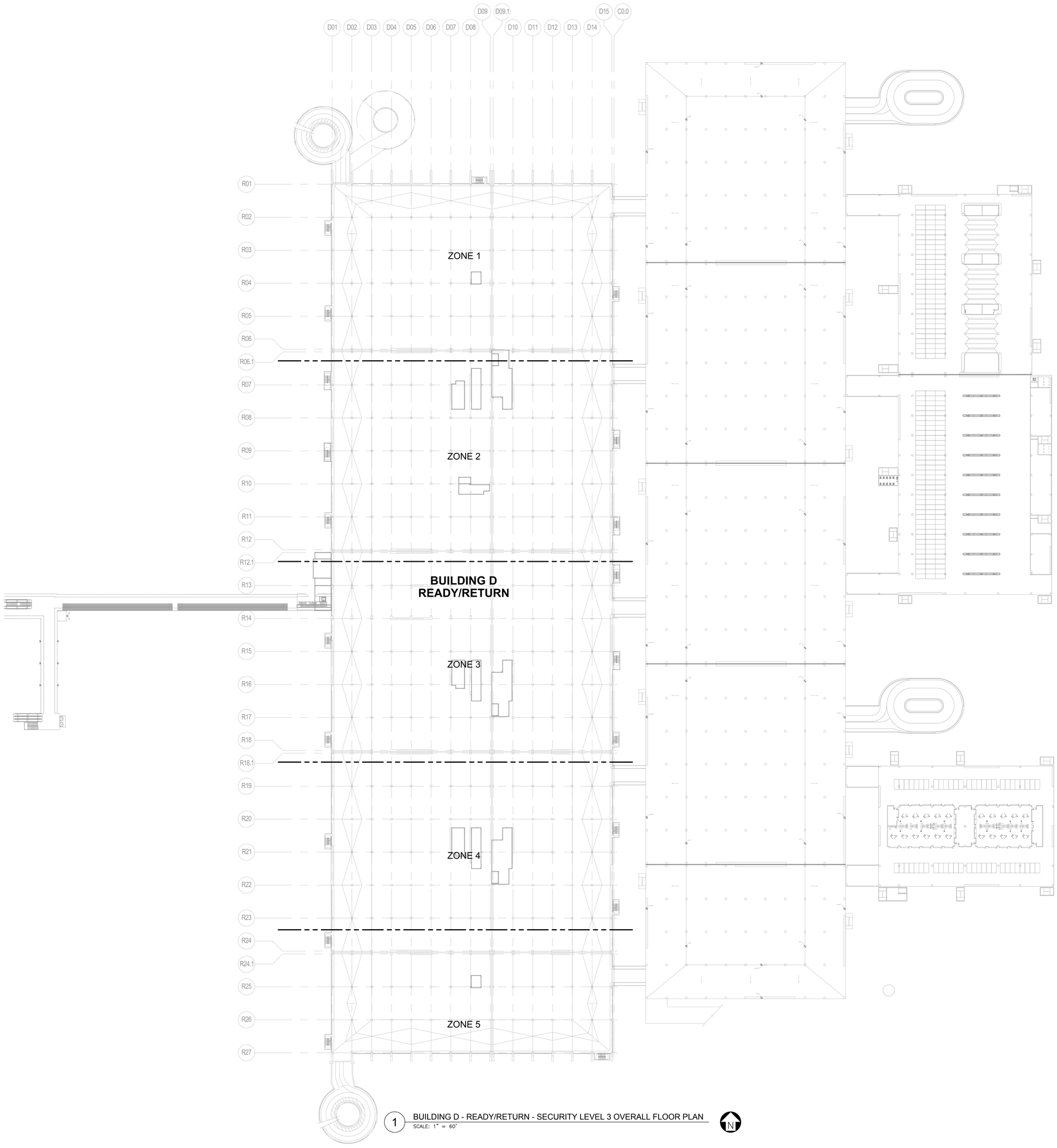

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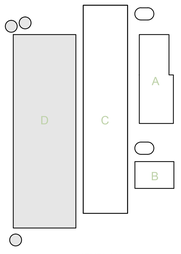
SCALE: 1" = 60'



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SHEET TITLE:
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SHEET NO.
4-TY-030

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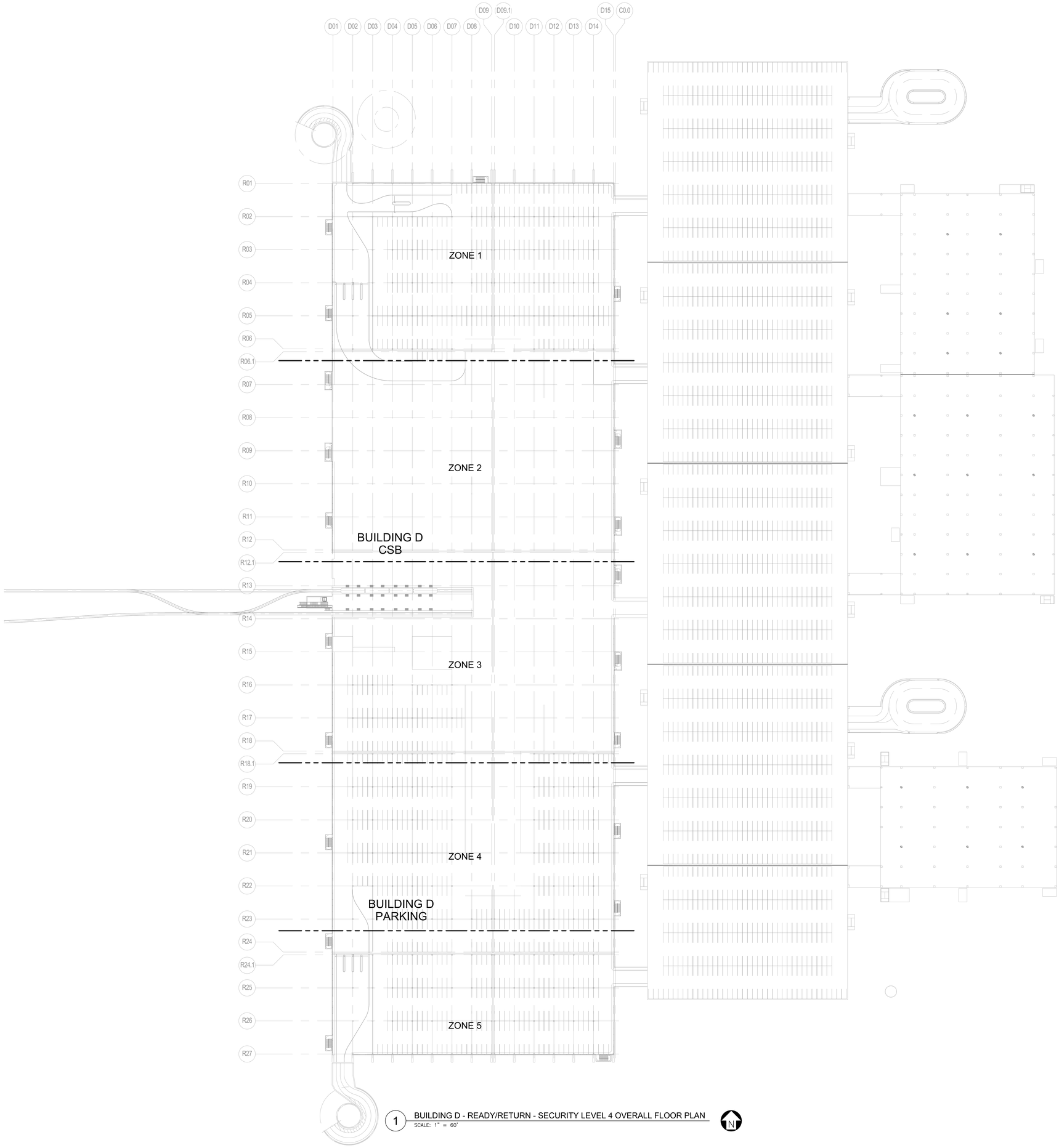

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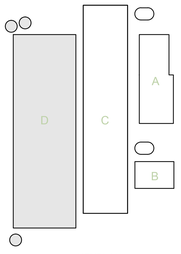
SCALE: 1" = 60'



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SHEET TITLE:
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SHEET NO.
4-TY-040

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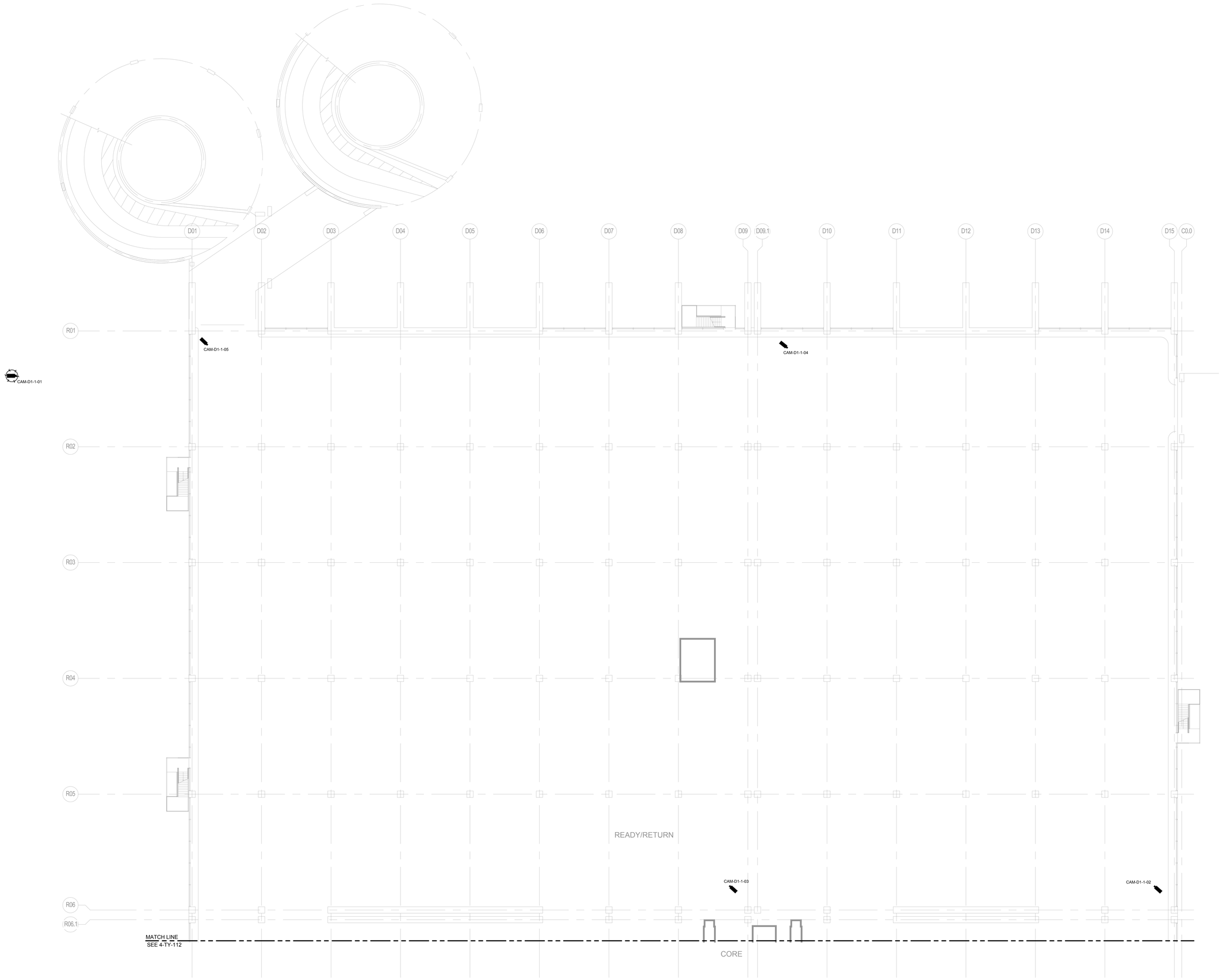

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
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LEVEL 1
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SHEET NO.
4-TY-111

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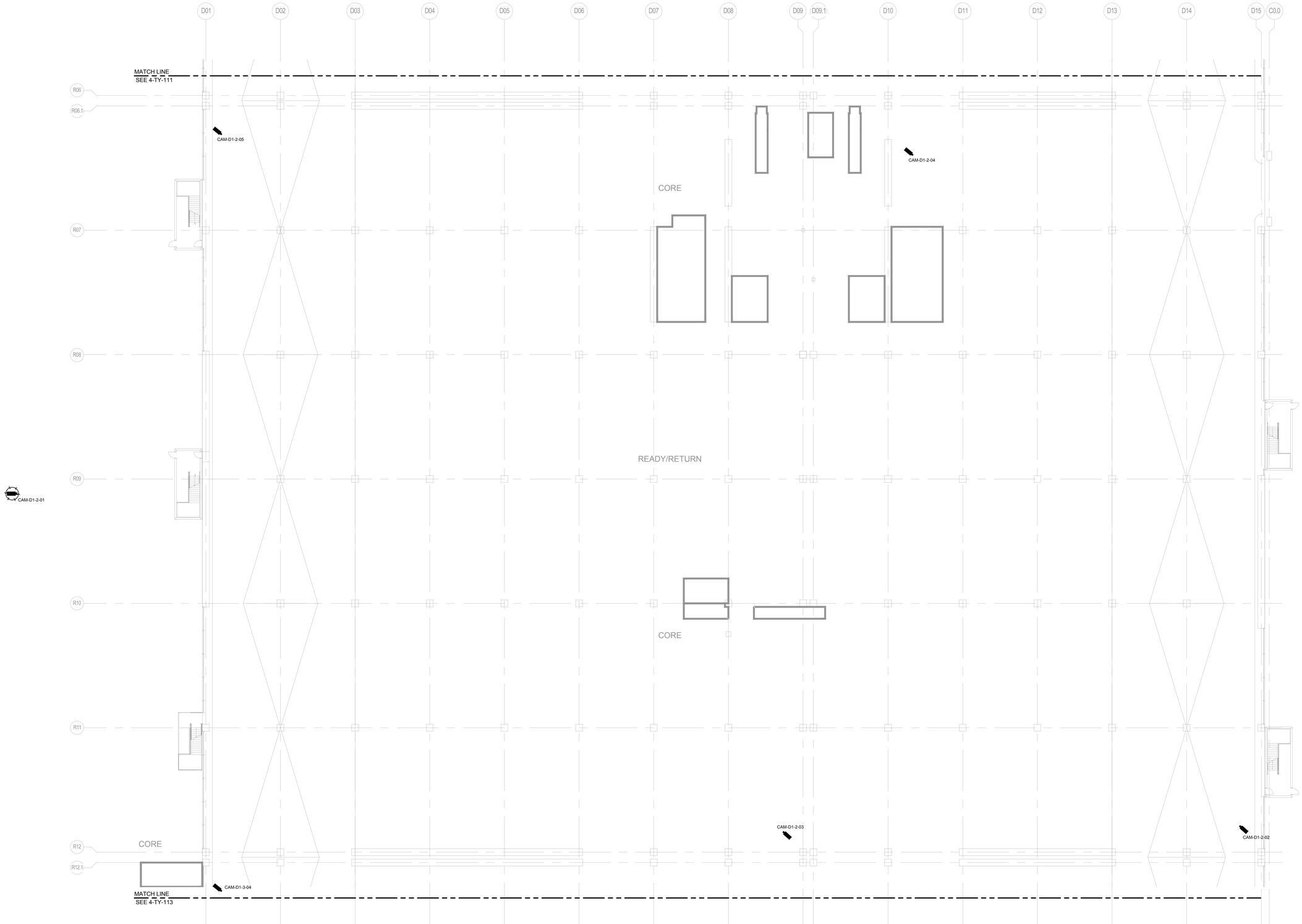

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 FLOOR PLAN
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N

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

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SHEET TITLE:
READY / RETURN SECURITY LEVEL 1 FLOOR PLAN

SHEET NO.
4-TY-112

J:\1245-043 CADP TECHNOLOGY\94 OUTPUT VOL 4\DA4881\4-TY-112_L1D.DWG
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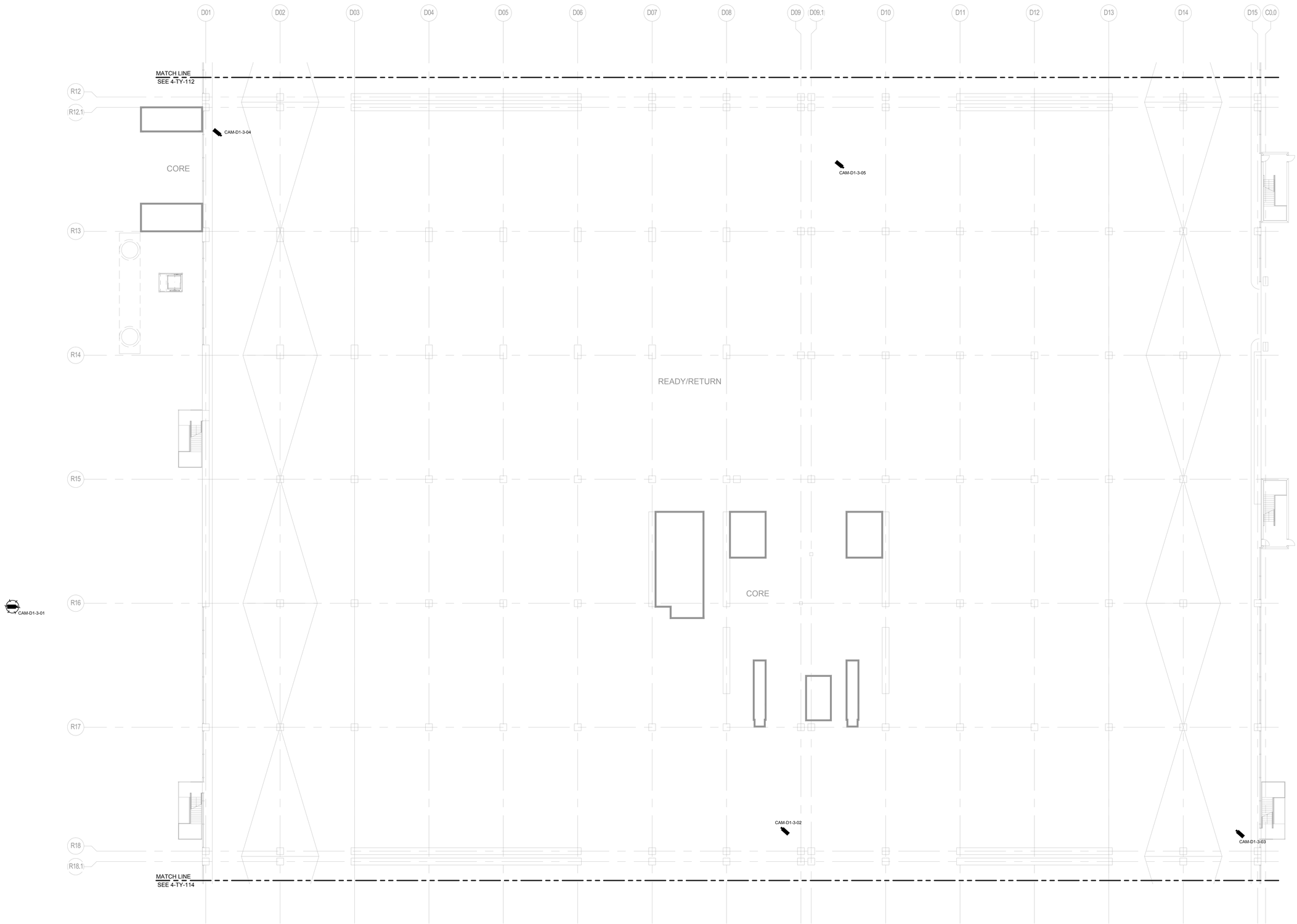

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 1
FLOOR PLAN

SHEET NO.
4-TY-113

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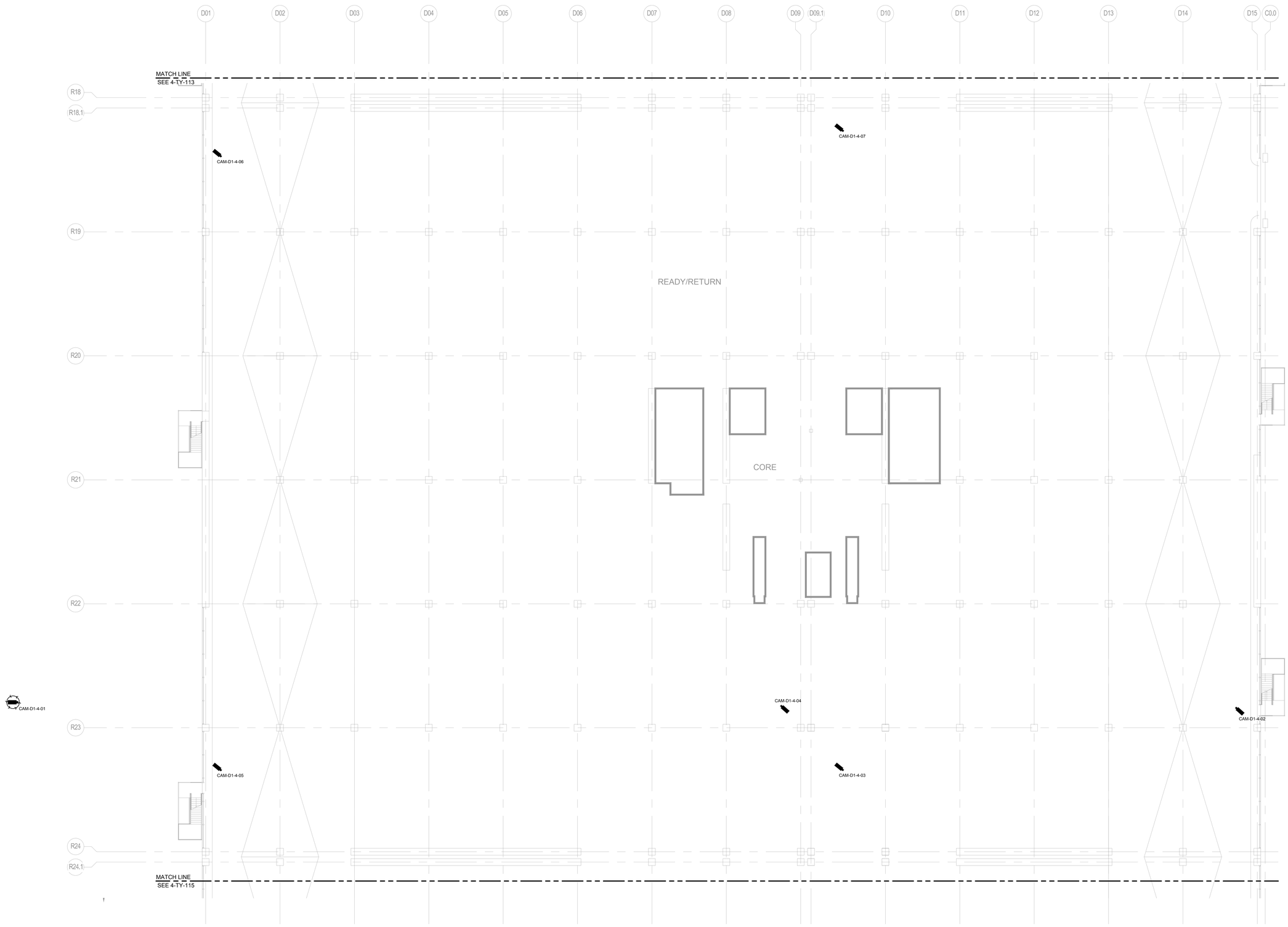

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 1
FLOOR PLAN

SHEET NO.
4-TY-114

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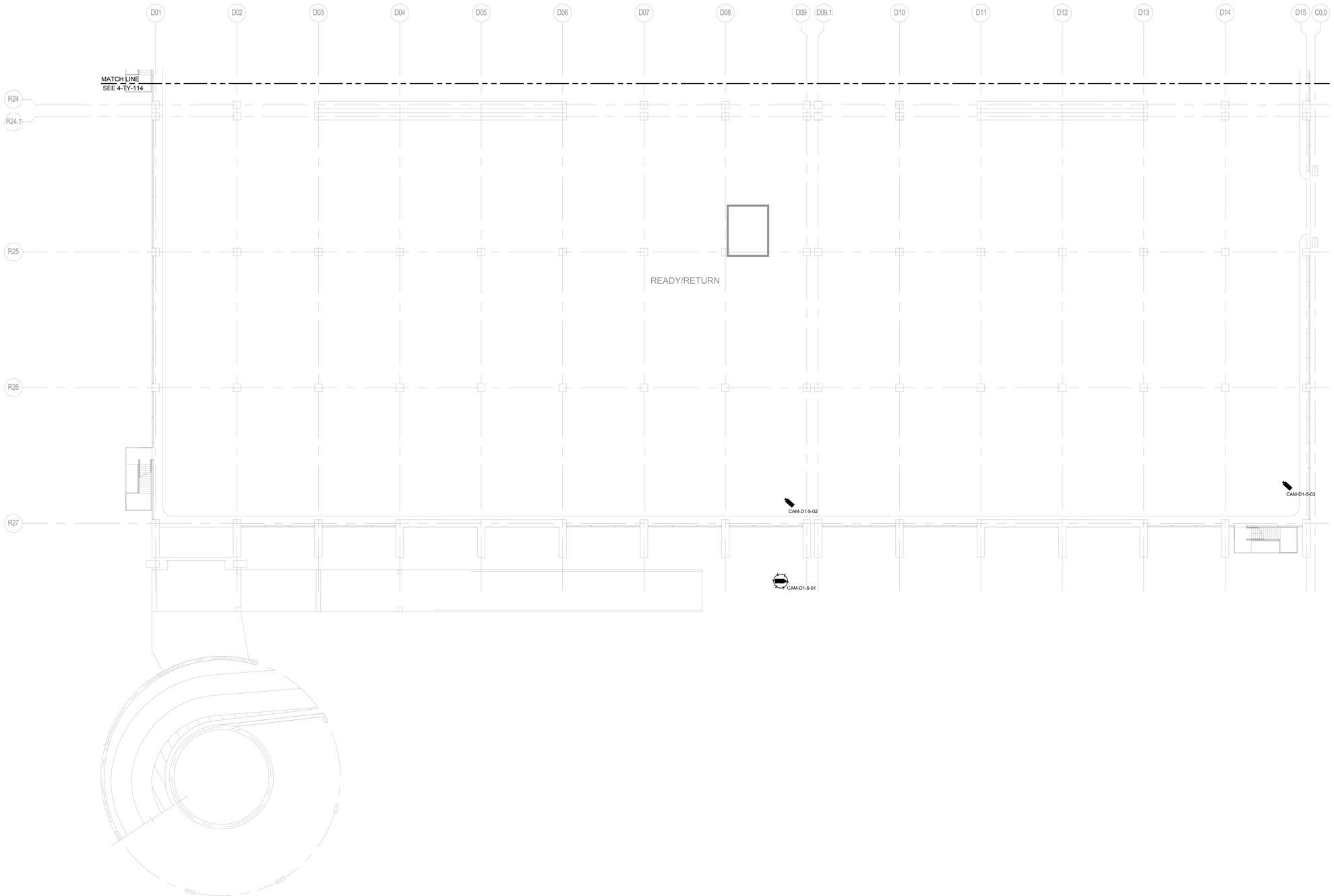

1 BUILDING D - READY/RETURN - SECURITY LEVEL 1 FLOOR PLAN

SCALE: 1/16" = 1'-0"

N

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SHEET TITLE:

READY / RETURN SECURITY LEVEL 1 FLOOR PLAN

SHEET NO.

4-TY-115

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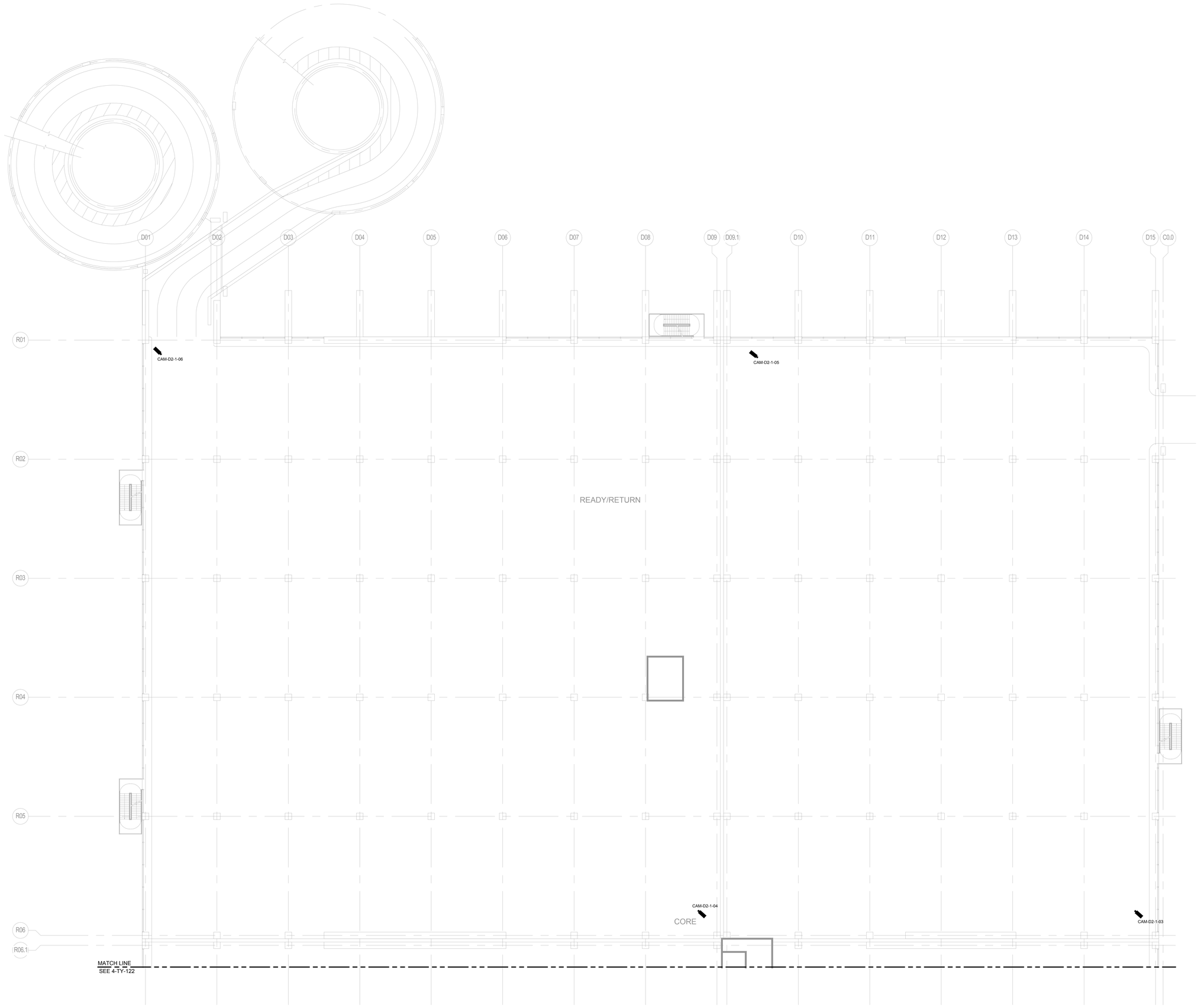

1 BUILDING D - READY/RETURN - SECURITY LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 2
FLOOR PLAN

SHEET NO.
4-TY-121

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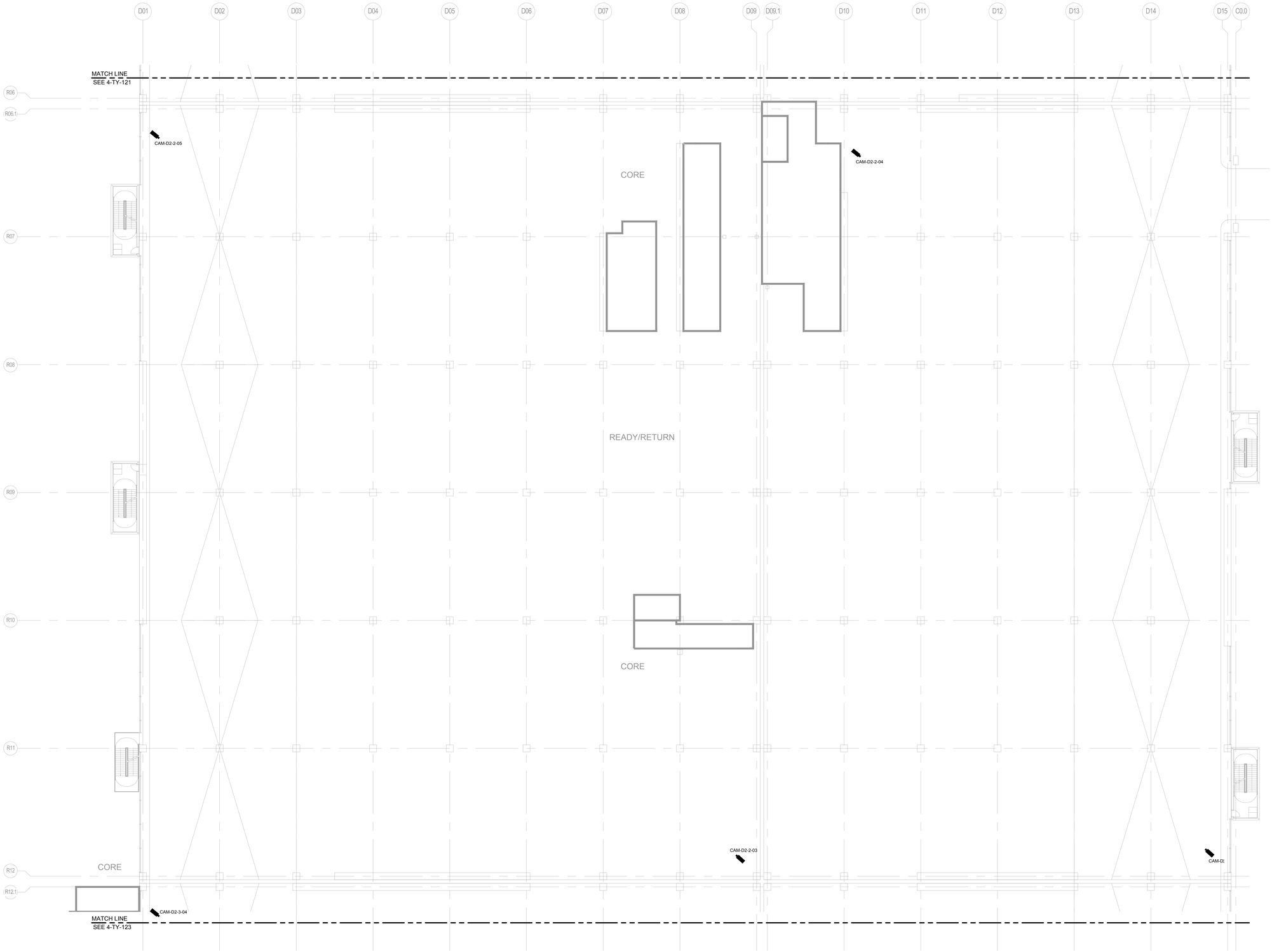

1 BUILDING D - READY/RETURN - SECURITY LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
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SECURITY
LEVEL 2
FLOOR PLAN

SHEET NO.
4-TY-122

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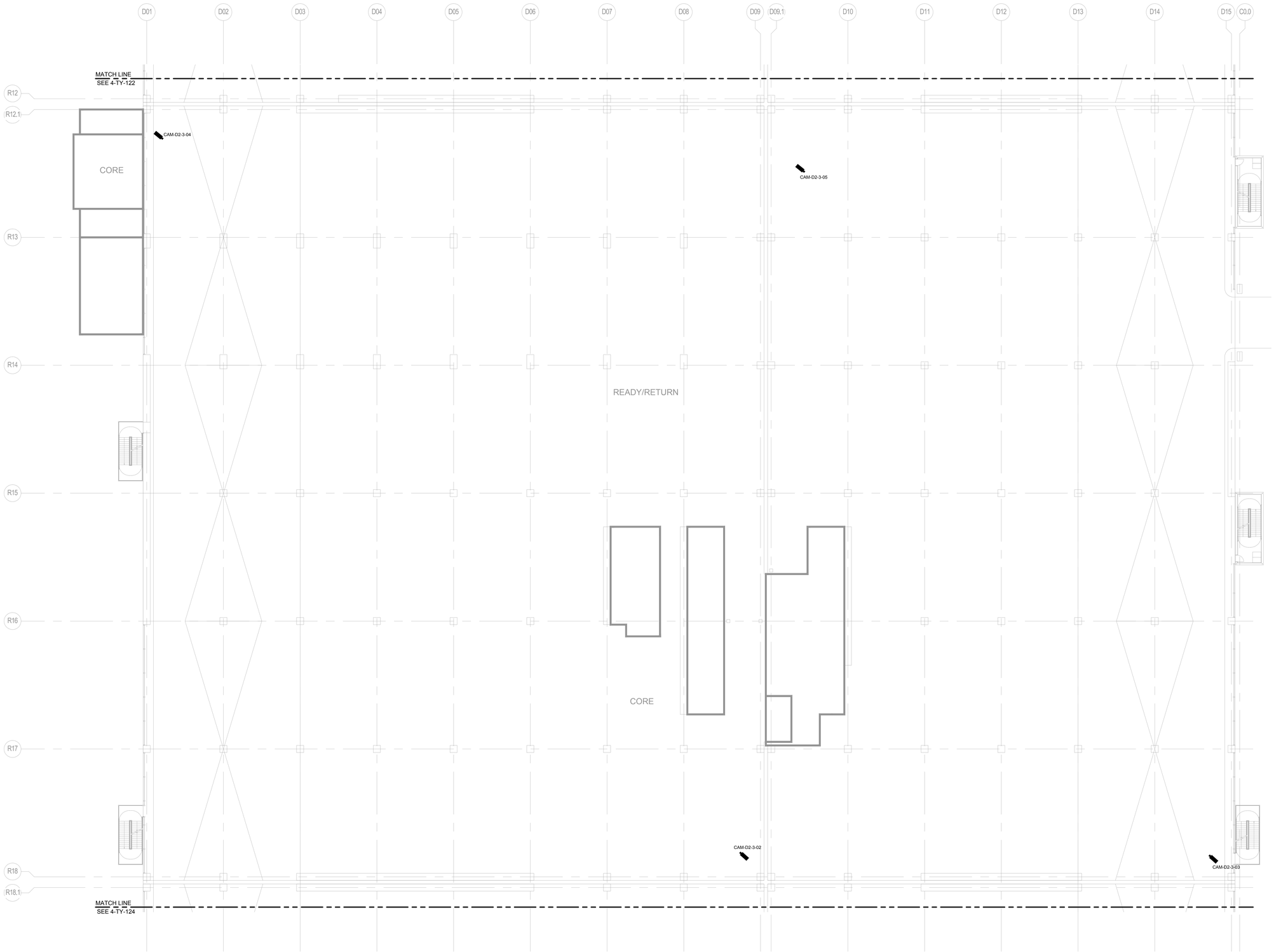

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SHEET TITLE:
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FLOOR PLAN

SHEET NO.
4-TY-123

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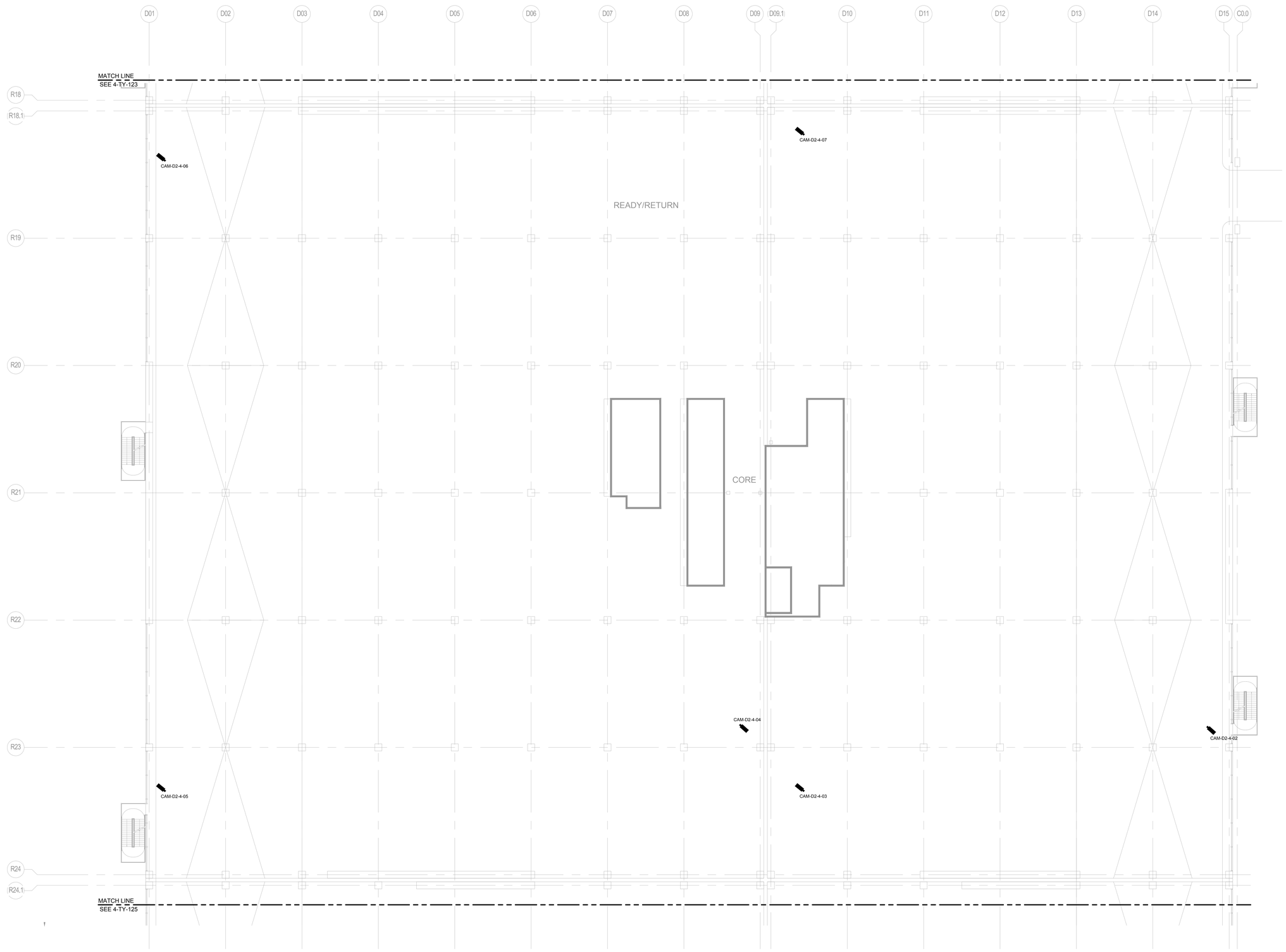
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - SECURITY LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

TranSystems
801 SOUTH GRAND
SUITE 210
LOS ANGELES, CA 90017
PHONE: 562. 594-6974
FAX: 562. 594-6975

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REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 2
FLOOR PLAN

SHEET NO.
4-TY-124

J:\1245-043 CAD\F TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-124_L2D.DWG
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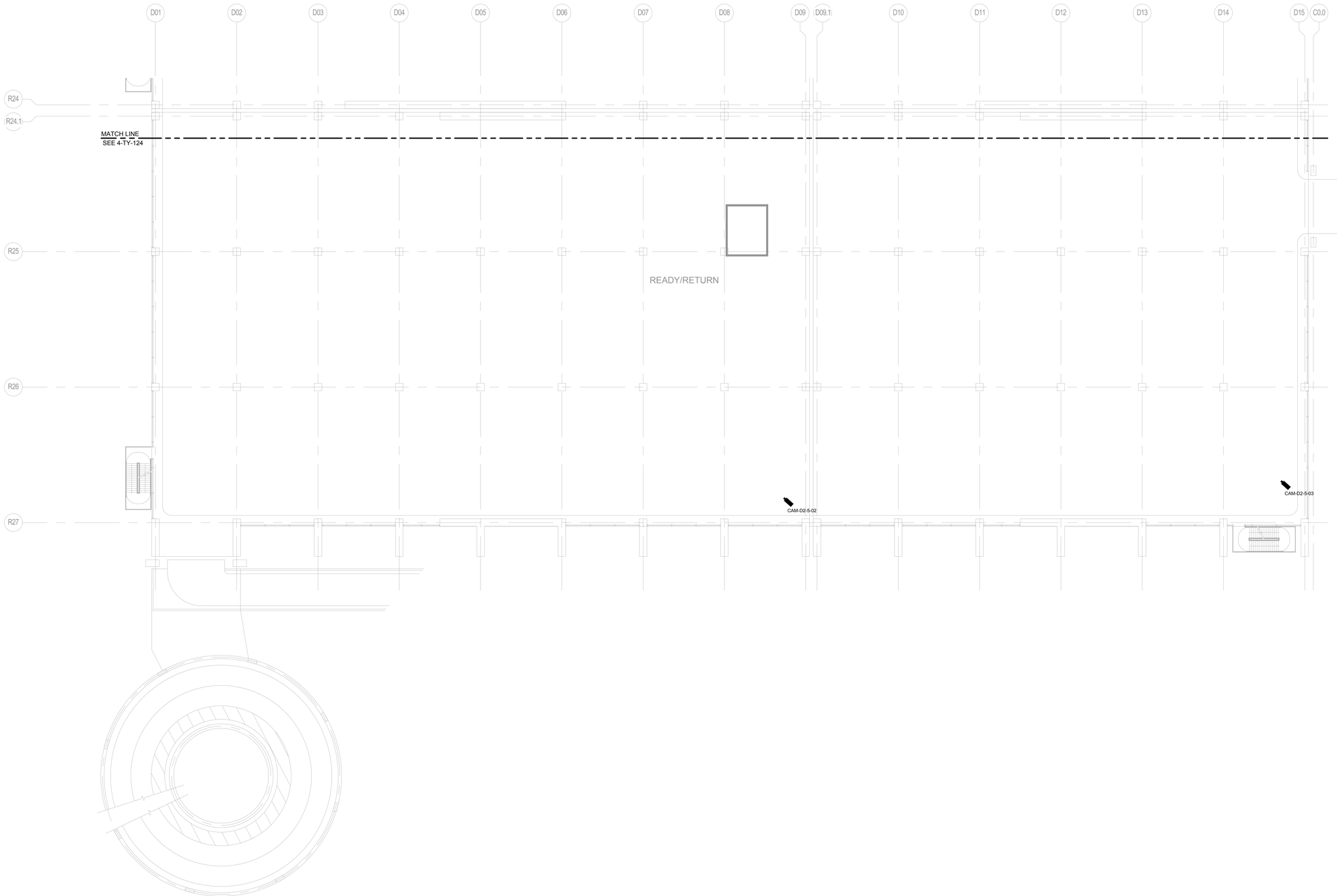

1 BUILDING D - READY/RETURN - SECURITY LEVEL 2 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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MARK	DATE	DESCRIPTION

PROJ.NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
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SHEET TITLE:
READY / RETURN SECURITY LEVEL 2 FLOOR PLAN

SHEET NO.
4-TY-125

J:\1245-043 CADP TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-125_LS3.DWG

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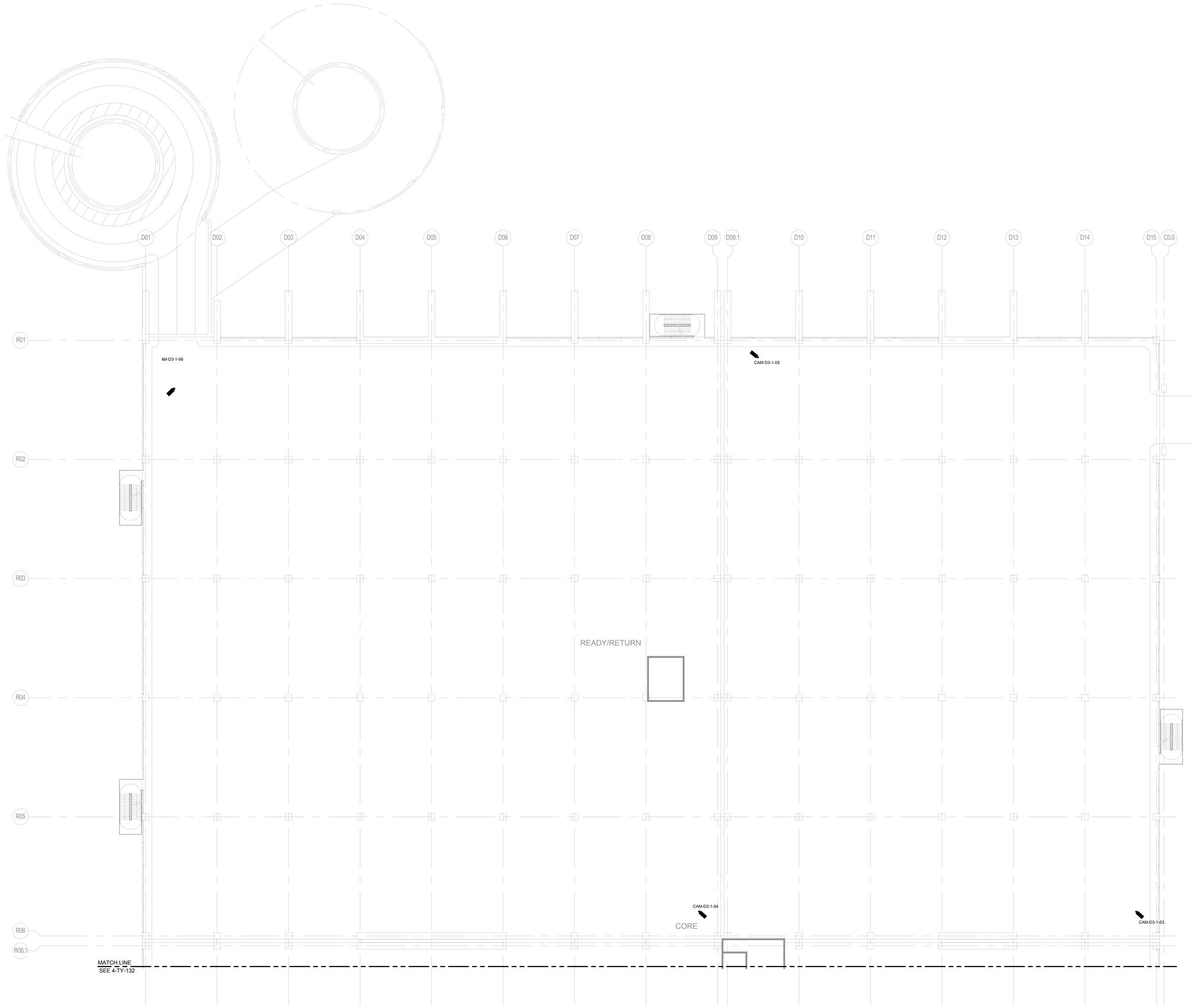

1 BUILDING D - READY/RETURN - SECURITYLEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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PROJ NO: DA4881
SCALE: 1/16" : 1-0"
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CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 3
FLOOR PLAN

SHEET NO.
4-TY-131

J:\1245-043 CAD\T TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-131_L3D.DWG

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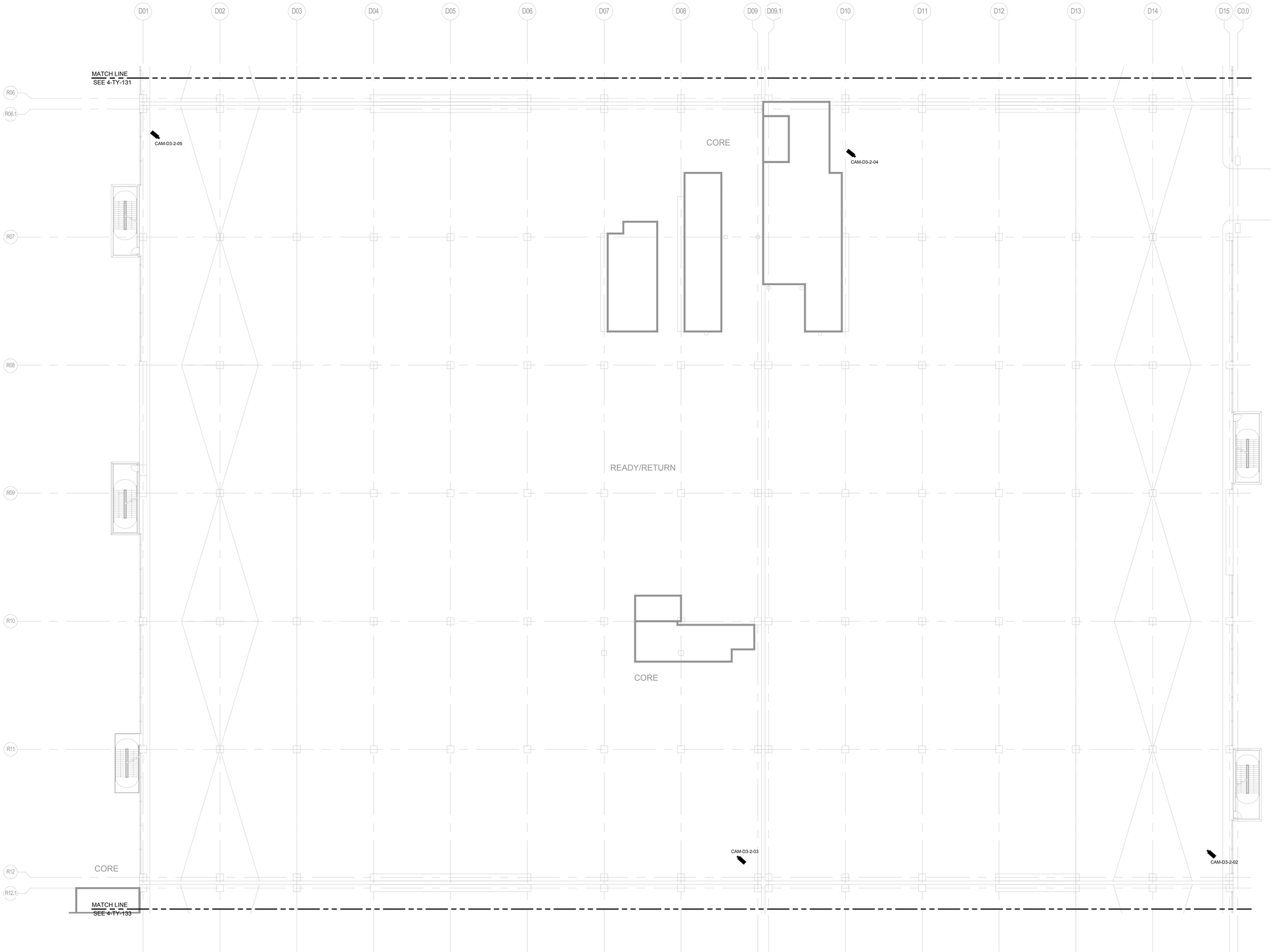

1 BUILDING D - READY/RETURN - SECURITY LEVEL 3 FLOOR PLAN

SCALE: 1/16" = 1'-0"

N

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5

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CHECKED BY: TW

SHEET TITLE:

READY / RETURN SECURITY LEVEL 3 FLOOR PLAN

SHEET NO.

4-TY-132

IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING

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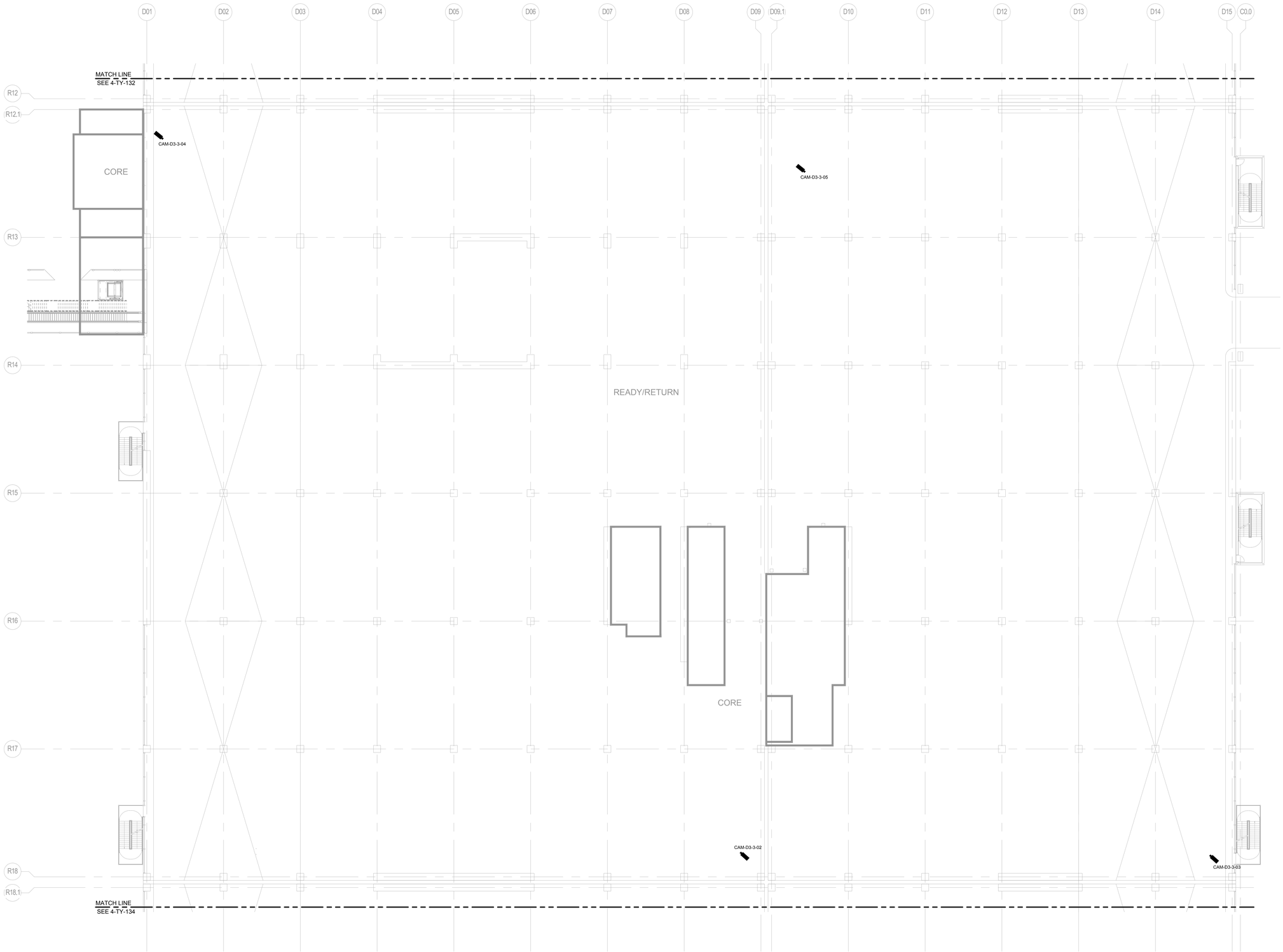

1 BUILDING D - READY/RETURN - SECURITY LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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DATE: 07/01/2016
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DRAWN BY: R B
CHECKED BY: TW

SHEET TITLE:
READY/ RETURN
SECURITY
LEVEL 3
FLOOR PLAN

SHEET NO.
4-TY-133

J:\1245-04\3 CAD\F TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-133_L3D.DWG

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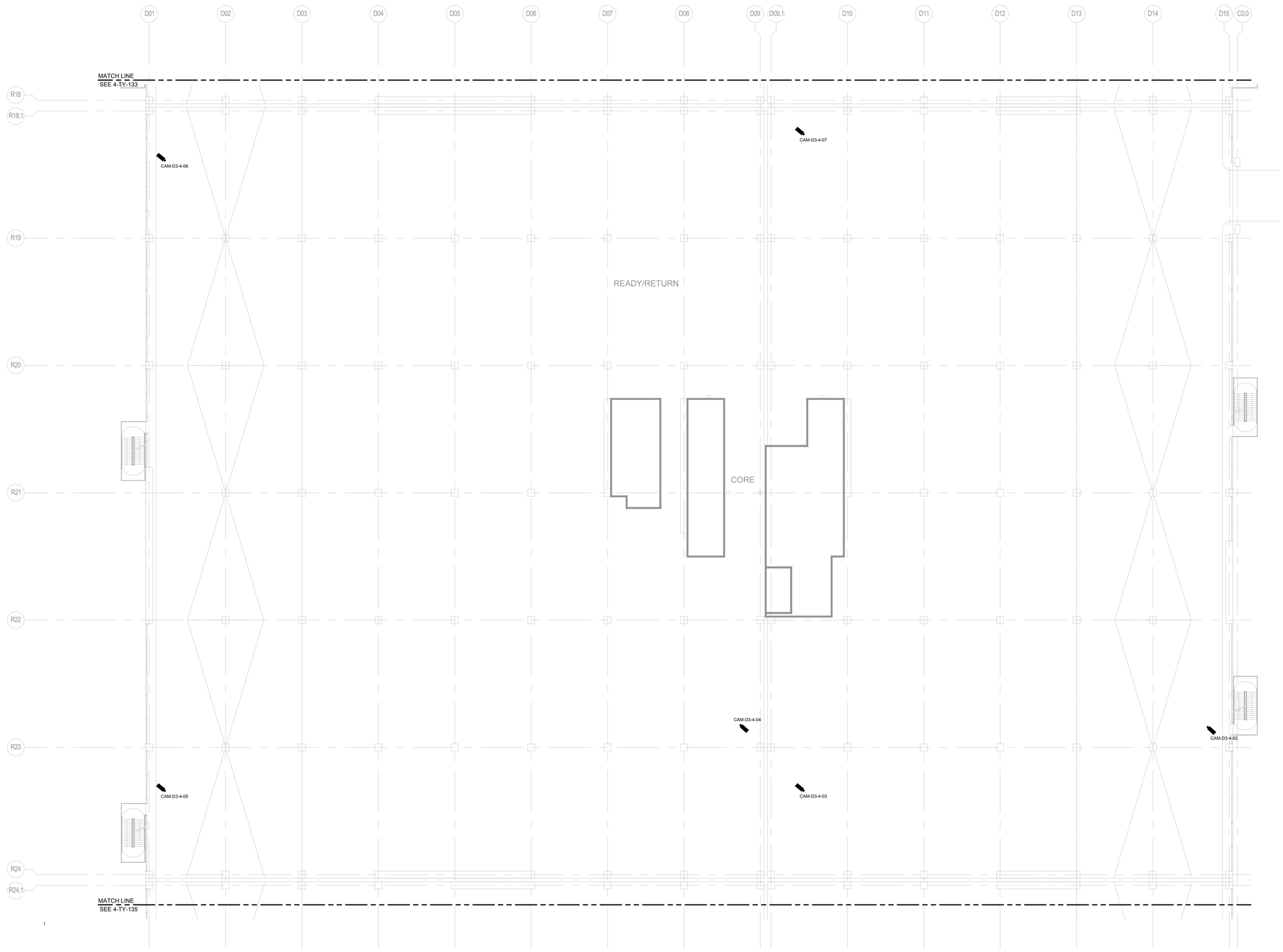

1 BUILDING D - READY/RETURN - SECURITY LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 3
FLOOR PLAN

SHEET NO.
4-TY-134

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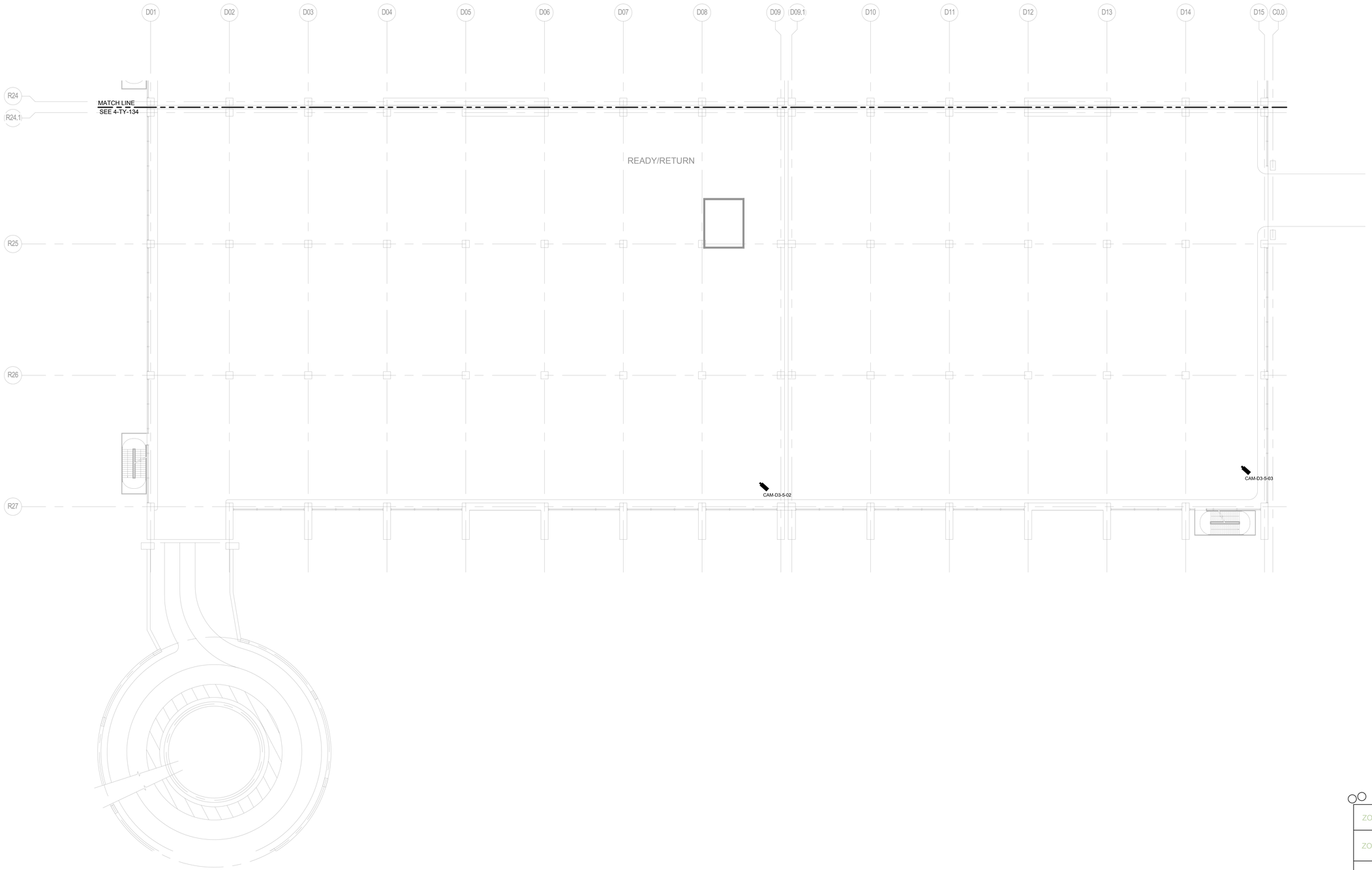

1 BUILDING D - READY/RETURN - SECURITY LEVEL 3 FLOOR PLAN
SCALE: 1/16" = 1'-0"

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MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 3
FLOOR PLAN

SHEET NO.
4-TY-135

J:\1245-043 CAD\F TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-135_L3D.DWG

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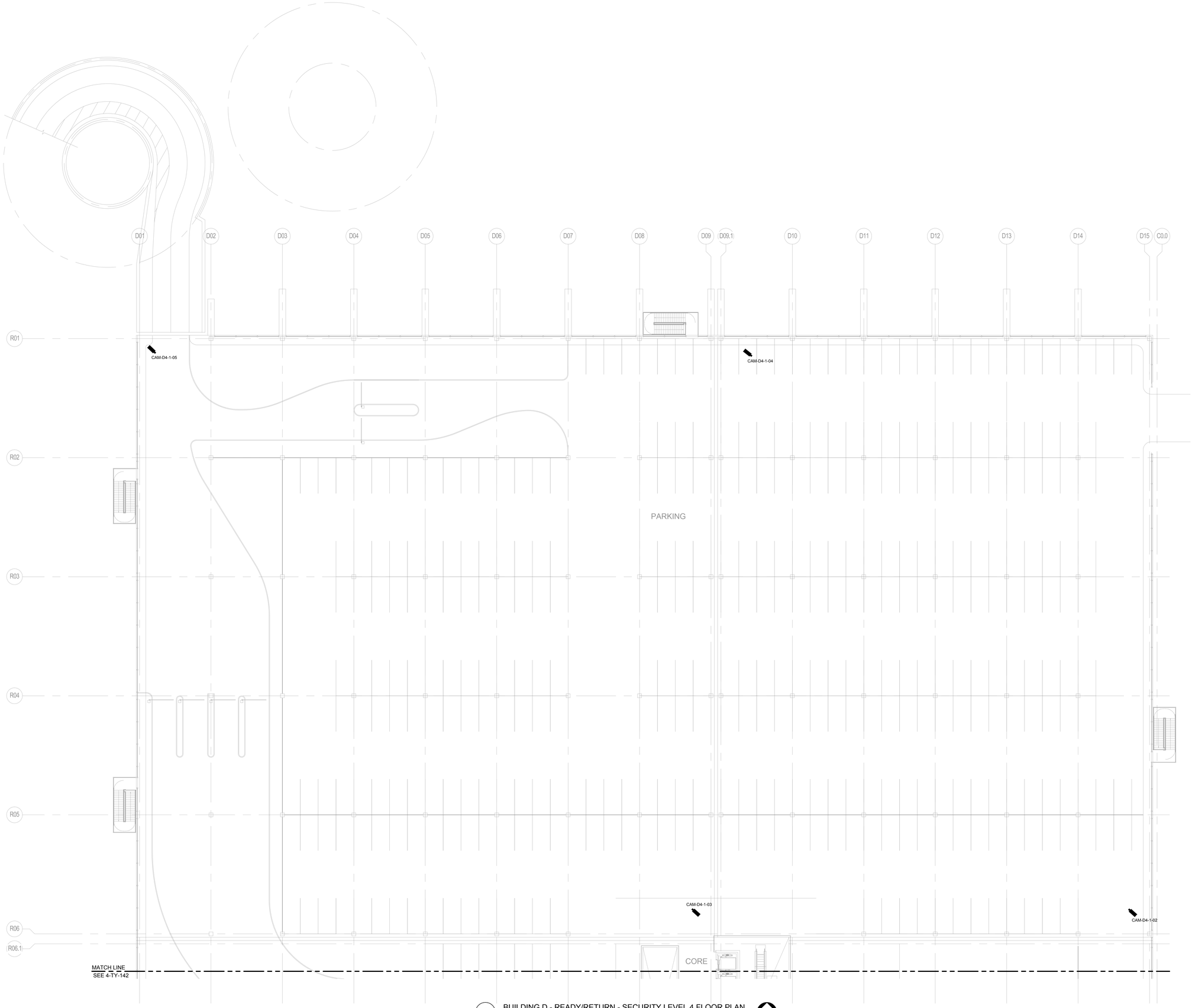

1 BUILDING D - READY/RETURN - SECURITY LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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MARK	DATE	DESCRIPTION

PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 02/04/2016
DESIGNED BY: JWJ
DRAWN BY: RNB
CHECKED BY: NW

SHEET TITLE:
READY / RETURN SECURITY LEVEL 4 FLOOR PLAN

SHEET NO.
4-TY-141

J:\1245-043 CAD\T TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-141_L4D.DWG
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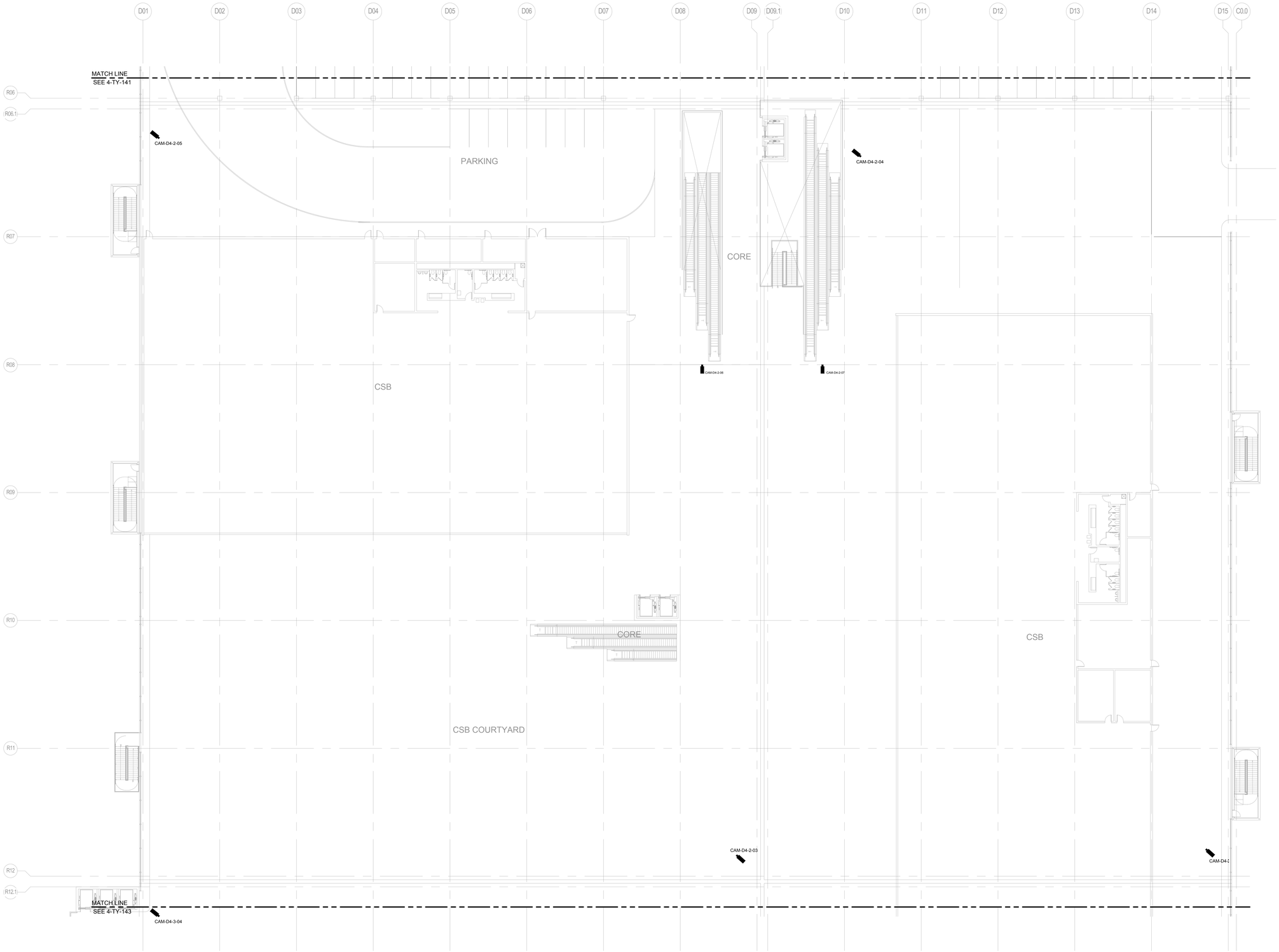
IF THIS DRAWING IS LESS THAN 36" X 48" IT IS A REDUCED SIZE DRAWING



1 BUILDING D - READY/RETURN - SECURITY LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

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PROJ NO: DA4881
SCALE: 1/16" : 1-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 4
FLOOR PLAN

SHEET NO.
4-TY-142

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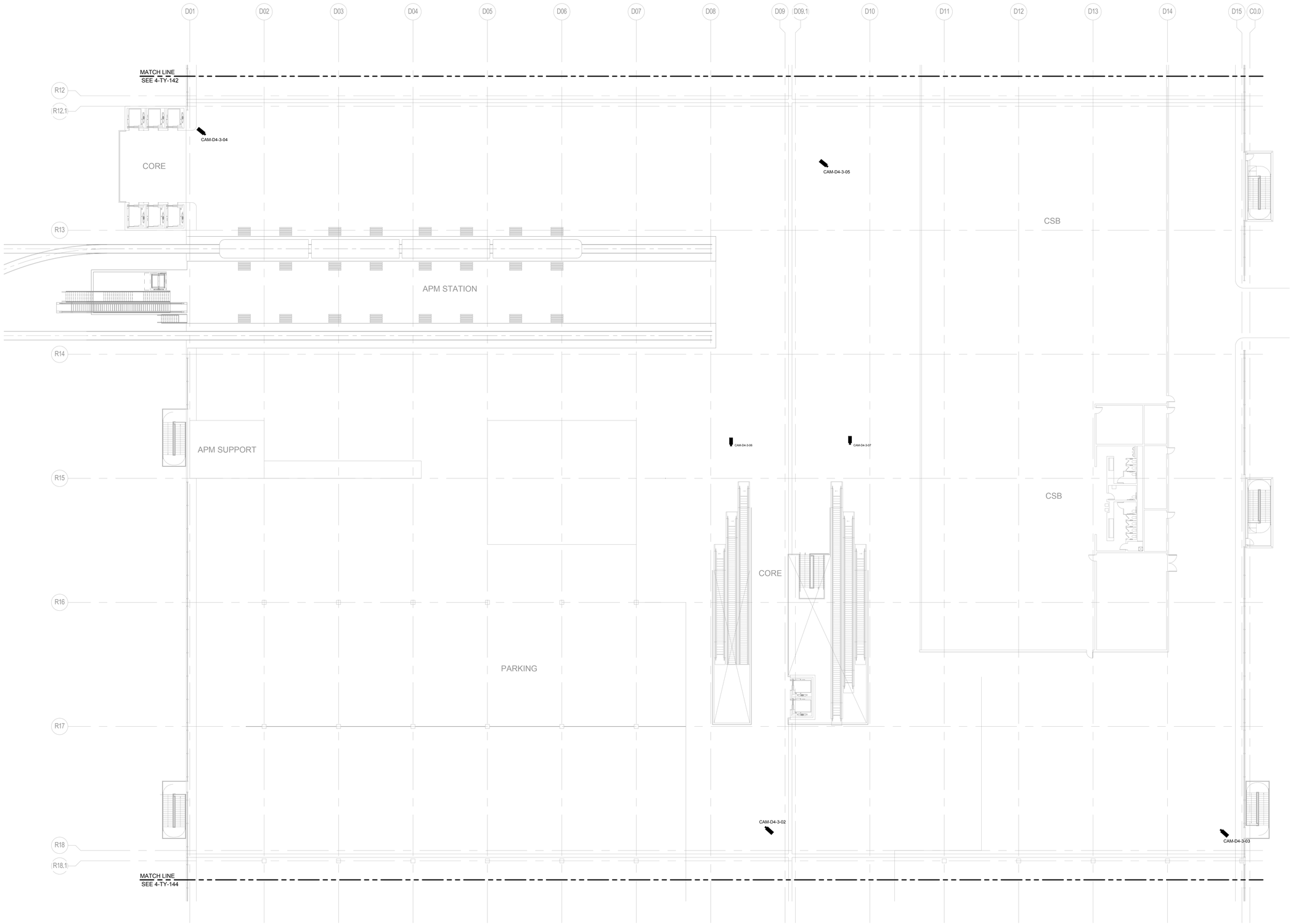

1 BUILDING D - READY/RETURN - SECURITY LEVEL 4 FLOOR PLAN
SCALE: 1/16" = 1'-0"

BUILDING D KEYPLAN

J:\1245-043 CAD\F TECHNOLOGY\04 OUTPUT VOL 4\DA4881-4-TY-143_L4D.DWG

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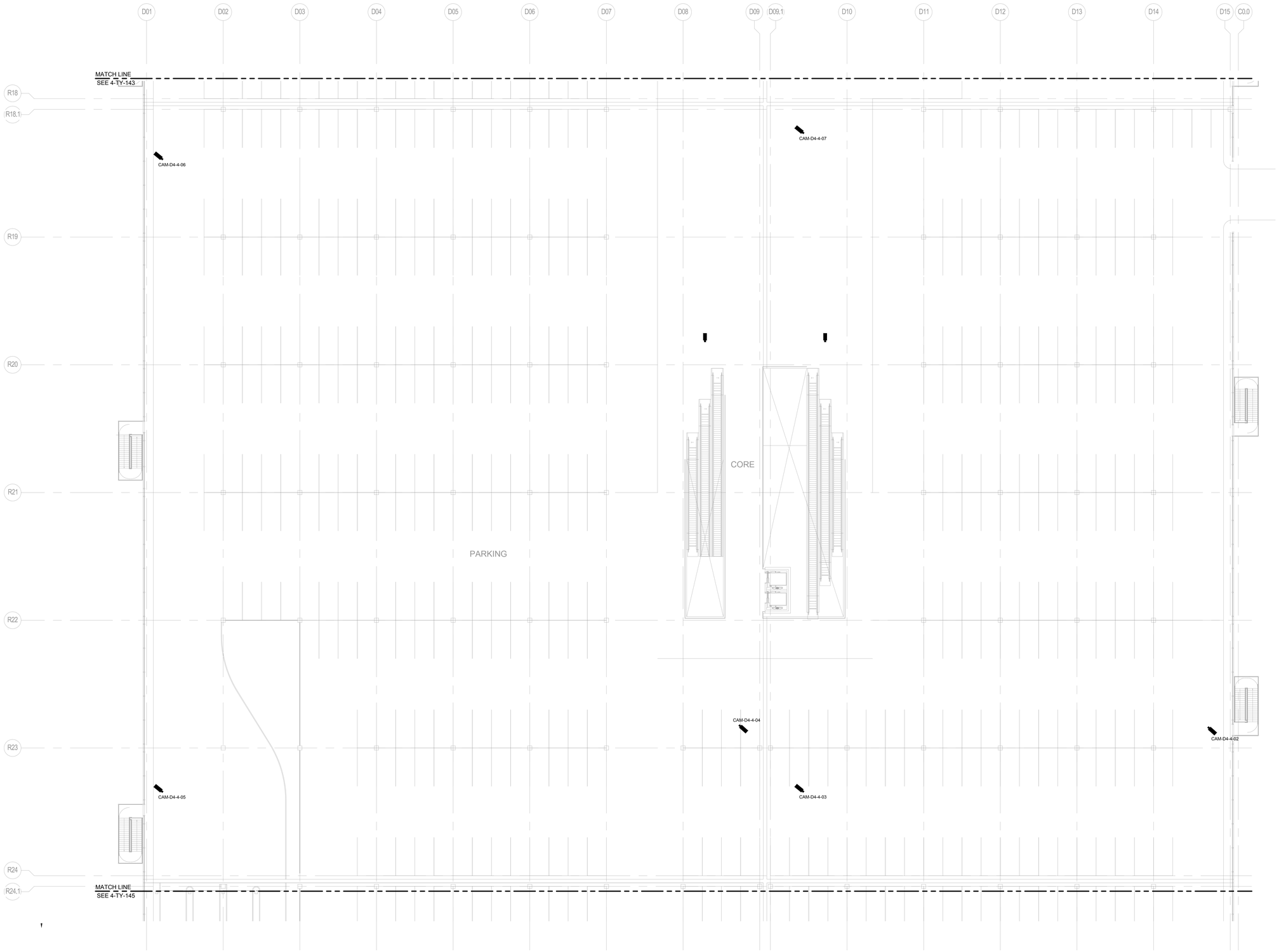
SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 4
FLOOR PLAN

SHEET NO.
4-TY-143



1 BUILDING D - READY/RETURN - SECURITY LEVEL 4 FLOOR PLAN
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PROJ NO: DA4881
SCALE: 1/16" = 1'-0"
DATE: 07/01/2016
DESIGNED BY: TW
DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 4
FLOOR PLAN

SHEET NO.
4-TY-144

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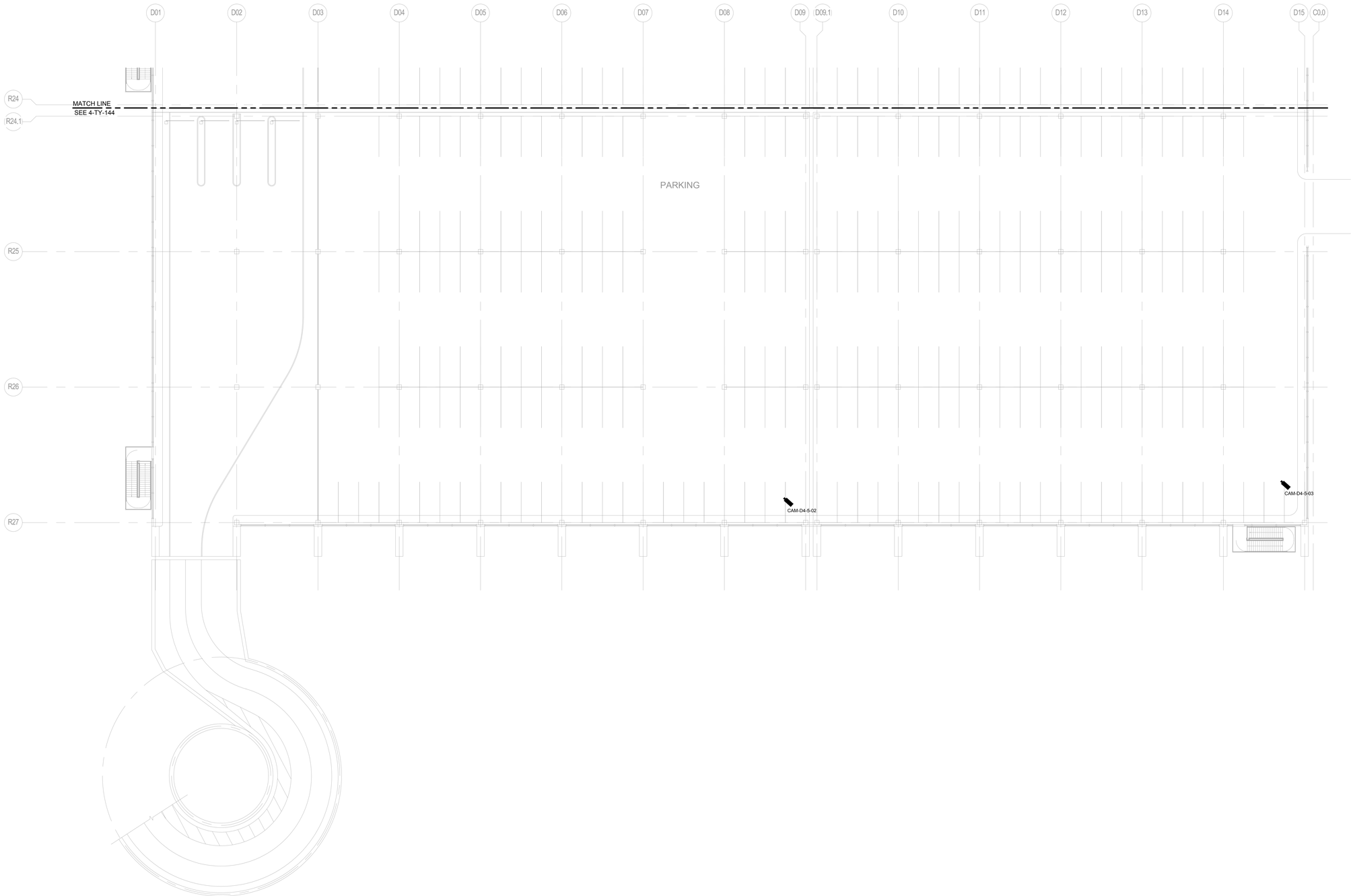

1 BUILDING D - READY/RETURN - SECURITY LEVEL 4 FLOOR PLAN
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DRAWN BY: R. B
CHECKED BY: TW

SHEET TITLE:
READY / RETURN
SECURITY
LEVEL 4
FLOOR PLAN

SHEET NO.
4-TY-145

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