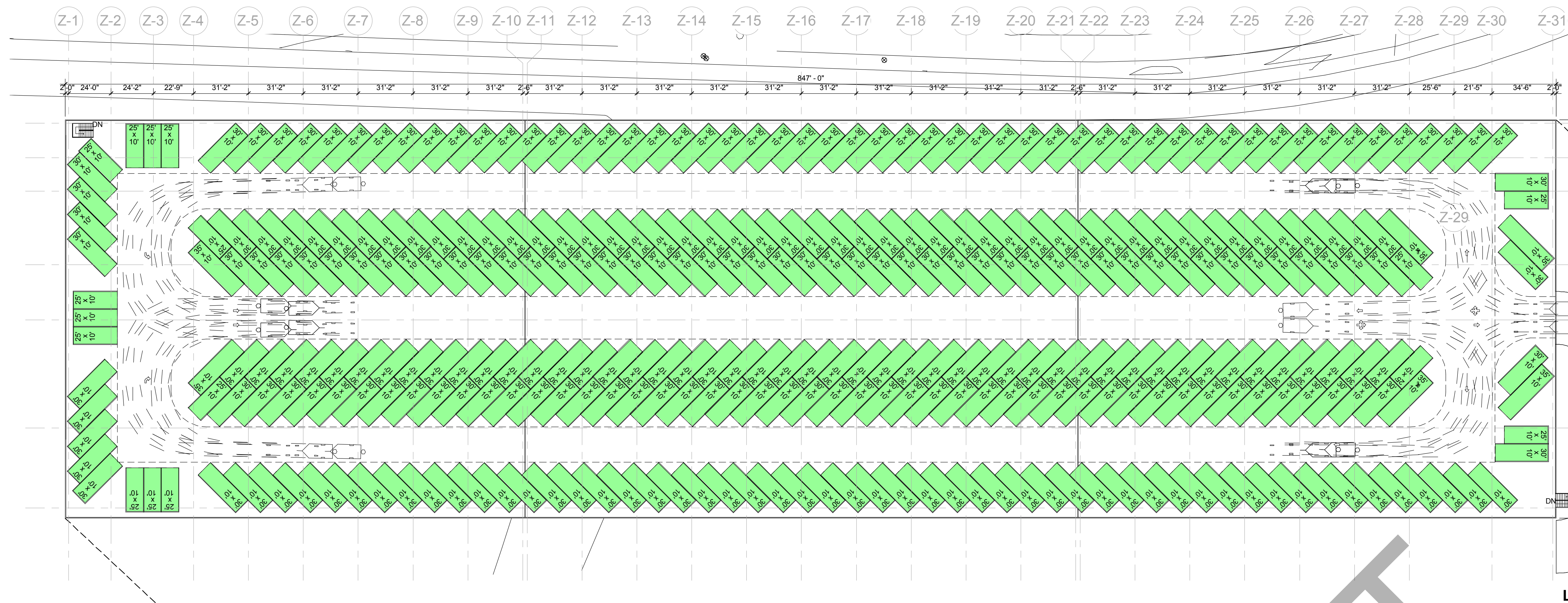




Level 2 1/32" = 1'-0" 2

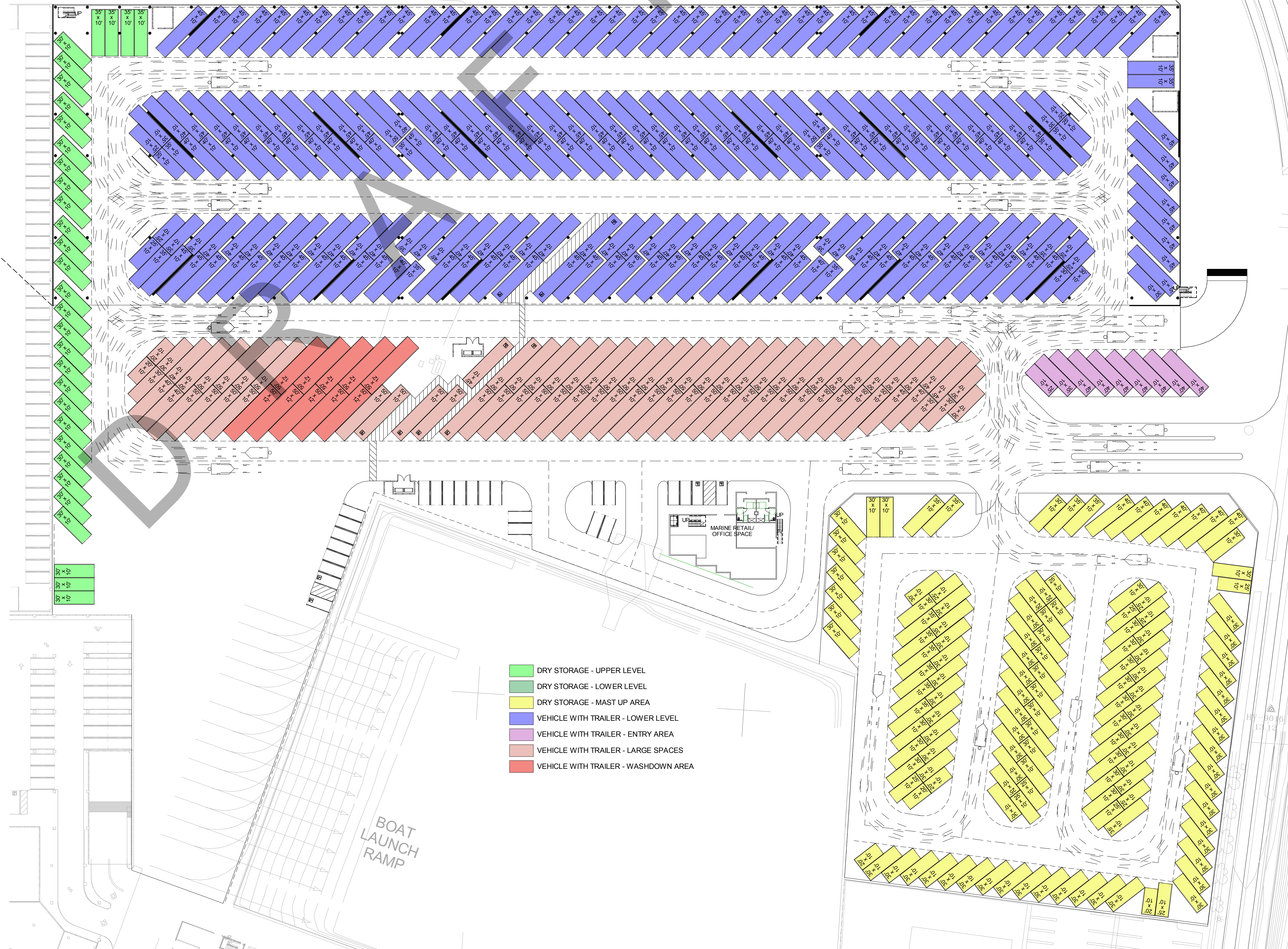
Dana Point Harbor PA 1 Plan B Dry Storage Deck

4/19/2012	Original Plan	Original %	Revised Plan	Revised %
Dry Storage	493		493	
UPPER LEVEL	323		327	
10x20	16	5%	0	0.0%
10x25	0		16	4.9%
10x30	307	95%	307	93.9%
10x35	0		4	1.2%
LOWER LEVEL	41		32	
10x30	41	100%	28	87.5%
10x35	0		4	12.5%
MAST-UP AREA	129		134	
10x20	19	15%	5	3.7%
10x25	0		14	10.4%
10x30	103	80%	96	71.6%
10x35	0		12	9.0%
10x40	6	5%	7	5.2%
Vehicle with Trailer Spaces	334		334	
Lower Level Trailer	264		241	
10x25	0		8	3.3%
10x30	0		3	1.2%
10x35	0		16	6.6%
10x40	106	40%	79	32.8%
10x45	158	60%	133	55.2%
10x50	0		2	0.8%
Entry	10		9	
10x25	0		1	11.1%
10x35	2	20%	0	0.0%
10x35	0		1	11.1%
10x40	8	80%	7	77.8%
Large Spaces at Office	50		74	
10x20	0		2	2.7%
10x30	0		6	8.1%
10x40	0		4	5.4%
10x45	0		4	5.4%
10x50	0		58	78.4%
12x50	50	100%	0	0.0%
Wash Down	10		10	
12x50	10	100%	10	100.0%

493 Boats X 0.25 = 124 Parking for boats
 5,600 s.f. / 250 = 23 PA 1 Office Parking
 2,000 s.f. / 200 = 10 PA 1 Small Marine Retail
 157 Required Parking Spaces

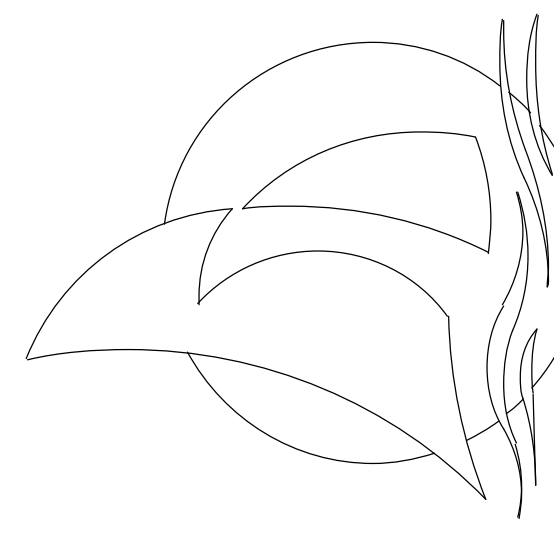
Auto Spaces	157	29
9x18		27
9x18 HC		2

128 Located in parking garage



DANA POINT HARBOR REVITALIZATION DRY BOAT STORAGE DECK ALTERNATIVE

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE



DATE: 04/18/12
 PROJECT #: Project Number
 SCALE: 1/32" = 1'-0"
 0
 NORTH
 SHEET #: A-1.00

SITE PLAN

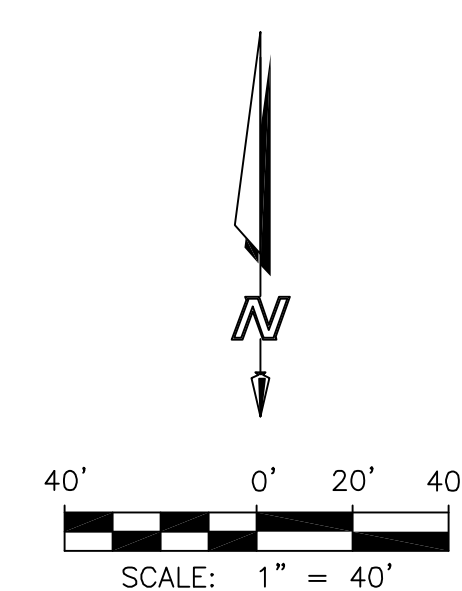
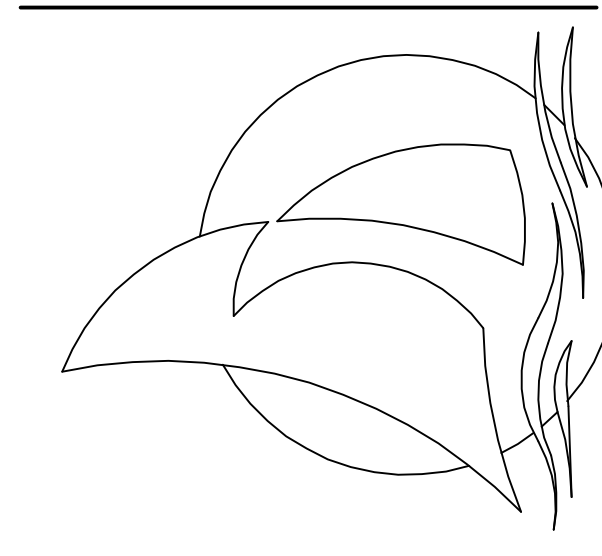
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OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA

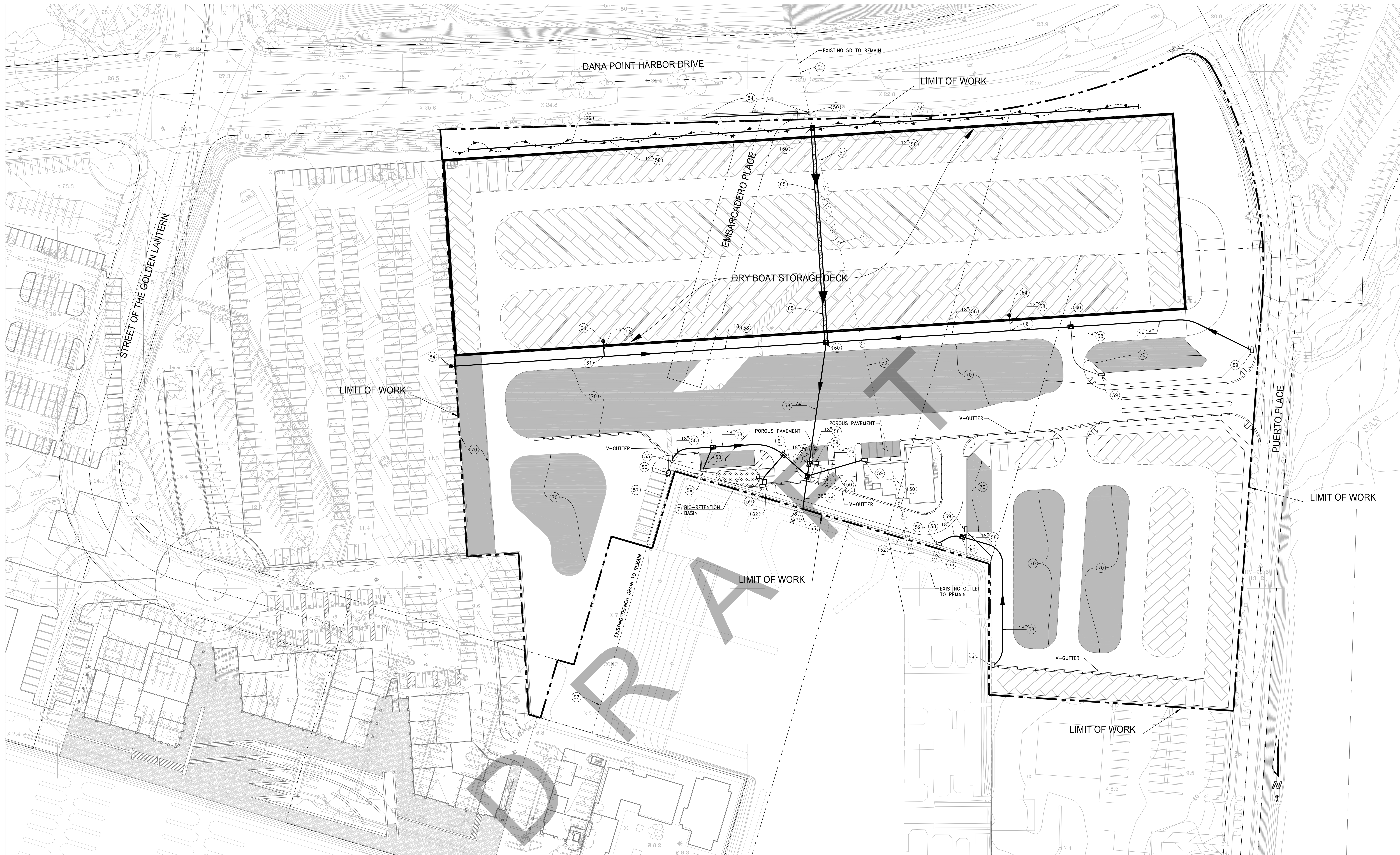


- LEGEND**
- LIMIT OF WORK
 - REMOVE EXISTING PARKING LOT, INCLUDING ALTERNATIVE CONCRETE RIBBON GUTTER, CURB AND GUTTER, CURB ONLY, AND PARKING LOT LIGHTING
 - REMOVE EXISTING LANDSCAPING
 - REMOVE EXISTING BLOCK WALL
 - REMOVE EXISTING SIDEWALK
 - REMOVE EXISTING CHAIN LINK FENCE
 - EXISTING STRUCTURES TO BE REMOVED

NOTE: FOR UNDERGROUND UTILITY REMOVALS, PLEASE SEE UTILITY EXHIBITS

DATE: 04/17/2012
PROJECT #: 307.08
SCALE: 1" = 40'
0 20 40
NORTH
SHEET #: 1

DEMOLITION
EXHIBIT



STORM DRAIN NOTES

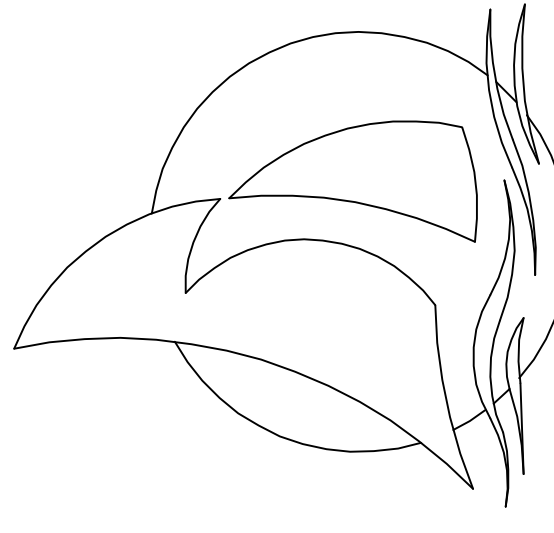
- 50 REMOVE STORM DRAIN PIPELINE AND/OR STORM DRAIN MANHOLE
- 51 PROTECT IN PLACE EXISTING STORM DRAIN PIPELINE BETWEEN INLET EAST OF DANA POINT HARBOR DRIVE AND NEW JUNCTION STRUCTURE INTERCEPT LOCATION.
- 52 ABANDON 30-FEET OF 18" RCP AND FILL WITH CONCRETE BACKFILL
- 53 PROTECT IN PLACE EXISTING OUTLET STRUCTURE.
- 54 PROTECT IN PLACE EXISTING 15" STORM DRAIN, CATCH BASIN, AND MANHOLE JUNCTION STRUCTURE AT DANA POINT HARBOR DRIVE AND EMBARCADERO PLACE INTERSECTION.
- 55 MODIFY EXISTING JUNCTION STRUCTURE BY REMOVING EXISTING 18" STORM DRAIN FROM SOUTH WALL AND PLUGGING HOLE AND BY CREATING NEW STORM DRAIN OUTLET IN EAST WALL.
- 56 PROTECT IN PLACE EXISTING STORM WATER FILTER AND DEBRIS CHAMBER
- 57 PROTECT IN PLACE EXISTING TRENCH DRAIN
- 58 CONSTRUCT RCP STORM DRAIN PIPE-SIZE PER PLAN
- 59 CONSTRUCT CATCH BASIN (ASSUME V=3.5')
- 60 CONSTRUCT JUNCTION STRUCTURE W/ MANHOLE
- 61 CONSTRUCT JUNCTION STRUCTURE W/O MANHOLE
- 62 CONSTRUCT FIRST FLUSH LOW FLOW INTERCEPTOR
- 63 REMOVE EXISTING 18" OUTLET PIPE AND STRUCTURE AND REPLACE WITH A 36" OUTLET PIPE AND STRUCTURE
- 64 CONNECT STORM DRAIN LATERAL TO ROOF DRAIN
- 65 18" RCP ENCASED IN 36" RCP SLEEVE W/BACKFILL

WATER QUALITY NOTES

- 70 CONSTRUCT POROUS PAVEMENT STRUCTURAL SECTIONS (4" CONCRETE PAVERS/2" BEDDING COURSE/4" NO 57 OPEN GRADED BASE/6" NO. 2 STONE BASE)
- 71 CONSTRUCT 3' DEEP GRADED BIO-RETENTION BASIN (3:1 SIDE SLOPES) WITH GRATE INLET OUTLET STRUCTURE
- 72 CONSTRUCT BIOSWALE W/BIODRAIN

**OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE**

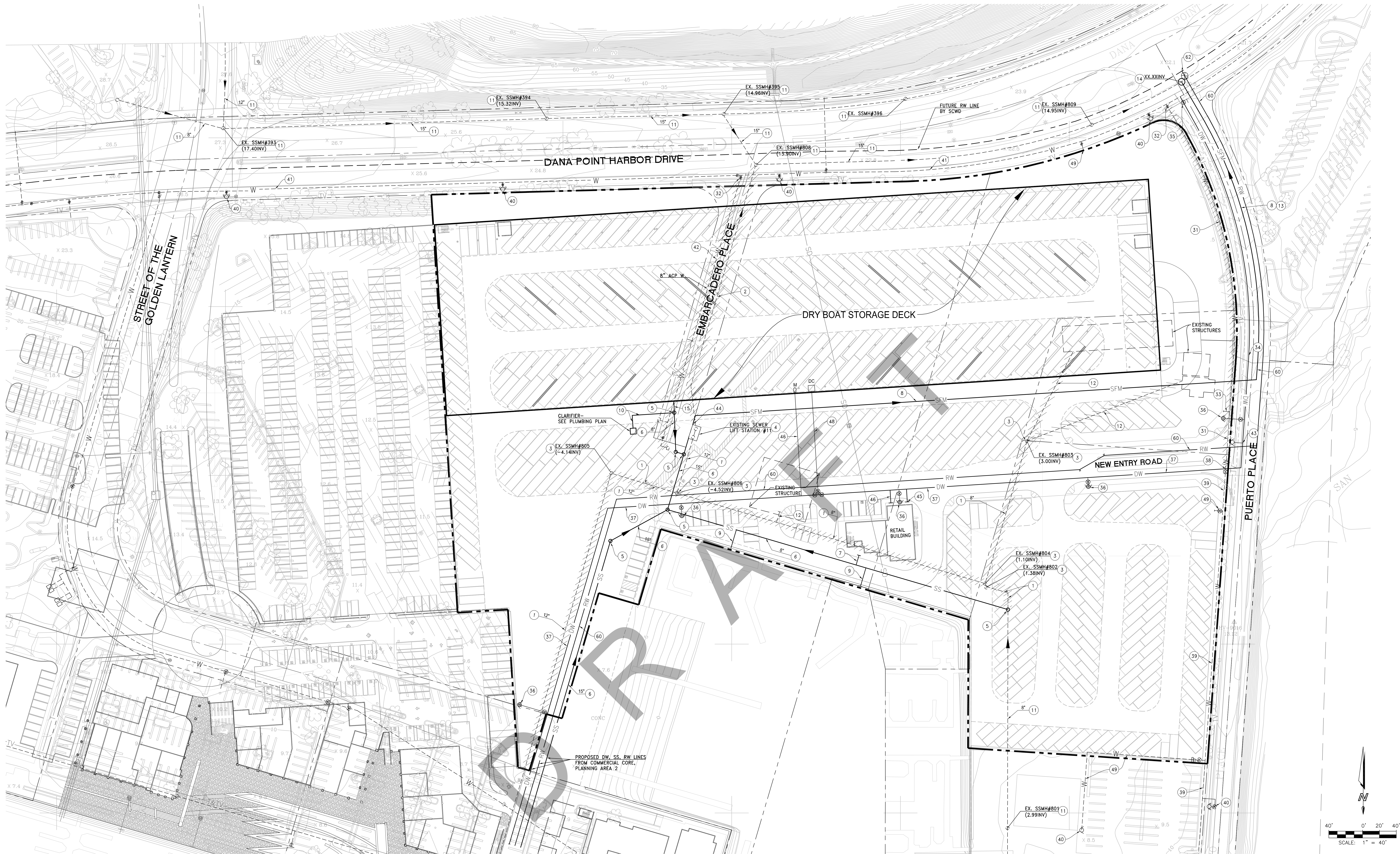
COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



DATE: 04/17/2012
PROJECT #: 307.08
SCALE: 1" = 40'
0

NORTH
SHEET #: 2

**DRAINAGE
AND WATER
QUALITY
EXHIBIT**



SEWER NOTES

- 1 - ABANDON IN PLACE EXISTING SEWER GRAVITY MAIN (SIZE PER PLAN). REMOVE INTERFERING PORTIONS OF VCP SEWER GRAVITY MAIN. PLUG ENDS OF REMAINING VCP WITH 8" BRICK & MORTAR.
- 2 - ABANDON IN PLACE EXISTING 8" C.I.P. SEWER FORCE MAIN. REMOVE INTERFERING PORTIONS OF EXISTING CIP SEWER FORCE MAIN. CUT AND CAP ENDS AT PROPERTY LINE AND AT EXISTING LIFT STATION
- 3 - REMOVE EXISTING MANHOLE
- 4 - UPGRADE EXISTING LIFT STATION (BY OTHERS)
- 5 - CONSTRUCT 48" I.D. SEWER MANHOLE
- 6 - CONSTRUCT VCP SEWER, SIZE NOTED ON PLAN
- 7 - CONSTRUCT 4" PVC SEWER LATERAL FOR RETAIL BUILDING
- 8 - CONSTRUCT 8" CIP SEWER FORCE MAIN
- 9 - CONSTRUCT 4" PVC SEWER LATERAL FOR BOAT SEWAGE PUMPOUT
- 10 - CONSTRUCT 6" PVC SEWER LATERAL FOR WASHDOWN AREA CLARIFIER
- 11 - PROTECT IN PLACE EXISTING SEWER GRAVITY MAIN (SIZE PER PLAN) AND GRAVITY MAIN MANHOLES
- 12 - ABANDON IN PLACE EXISTING BUILDING SEWER LATERAL
- 13 - SAWCUT, REMOVE, AND REPLACE EXISTING AC PAVEMENT IN PUERTO PLACE FOR CONSTRUCTION OF SEWER FORCE MAIN. PROVIDE TRAFFIC CONTROL AS NECESSARY
- 14 - CONSTRUCT NEW 48" I.D. SEWER MANHOLE IN DANA POINT HARBOR DRIVE. REMOVE INTERFERING PORTIONS OF EXISTING SEWER MAIN AS NECESSARY. SAWCUT, REMOVE, AND REPLACE EXISTING AC PAVEMENT IN DANA POINT HARBOR DRIVE. PROVIDE TRAFFIC CONTROL AS NECESSARY.
- 15 - CONSTRUCT 4" PVC SEWER LATERAL FOR DRY BOAT STORAGE DECK FLOOR DRAINS

DOMESTIC WATER NOTES

- 31 - ABANDON EXISTING 10" ACP WATER LINE IN PUERTO PLACE BETWEEN DANA POINT HARBOR DRIVE AND NEW ENTRY ROAD.
- 32 - KEEP EXISTING GATE VALVE AND PROVIDE END CAP ON WEST SIDE OF GATE VALVE
- 33 - ABANDON EXISTING 2" WATER SERVICE LATERAL
- 34 - CONSTRUCT NEW 12" WATER MAIN IN PUERTO PLACE BETWEEN DANA POINT HARBOR DRIVE AND NEW ENTRY ROAD. SAWCUT, REMOVE, AND REPLACE EXISTING AC PAVEMENT IN PUERTO PLACE FOR CONSTRUCTION OF WATER MAIN. PROVIDE TRAFFIC CONTROL AS NECESSARY
- 35 - CONSTRUCT 12" GATE VALVE
- 36 - CONSTRUCT NEW FIRE HYDRANT INCLUDING GATE VALVE AND T-CONNECTION
- 37 - CONSTRUCT 12" WATER MAIN
- 38 - CONSTRUCT 12" WATER MAIN TO EX 10" WATER MAIN IN PUERTO PLACE WITH 12"x12"x10" TEE. KEEP EX 10" WATER MAIN IN PUERTO PLACE WEST OF NEW ENTRY ROAD
- 39 - PROTECT IN PLACE EX 10" ACP WATER MAIN IN PUERTO PLACE WEST OF NEW ENTRY ROAD
- 40 - PROTECT IN PLACE EXISTING FIRE HYDRANT
- 41 - PROTECT IN PLACE EXISTING 12" WATER MAIN IN DANA POINT HARBOR DRIVE
- 42 - ABANDON EX 8" ACP WATER MAIN IN EMBARCADERO PLACE
- 43 - ABANDON EXISTING FIRE HYDRANT
- 44 - ABANDON EXISTING 1" WATER SERVICE LATERAL
- 45 - CONSTRUCT 6" FIRE SERVICE LATERAL WITH DETECTOR CHECK
- 46 - CONSTRUCT 2" WATER SERVICE AND 2" METER.
- 47 - CONSTRUCT 12" GATE VALVE
- 48 - CONSTRUCT 8" FIRE SERVICE WITH UNDERGROUND DETECTOR CHECK
- 49 - PROTECT IN PLACE EXISTING WATER SERVICE LINE

RECYCLED WATER NOTES

- 80 - CONSTRUCT 8" RECYCLED WATER LINE
- 81 - CONSTRUCT 2" WATER SERVICE AND 2" METER
- 82 - JOIN FUTURE MAIN LINE BY OTHERS

OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE

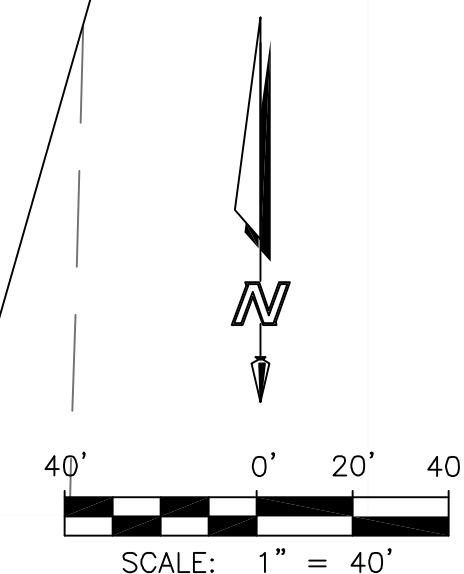
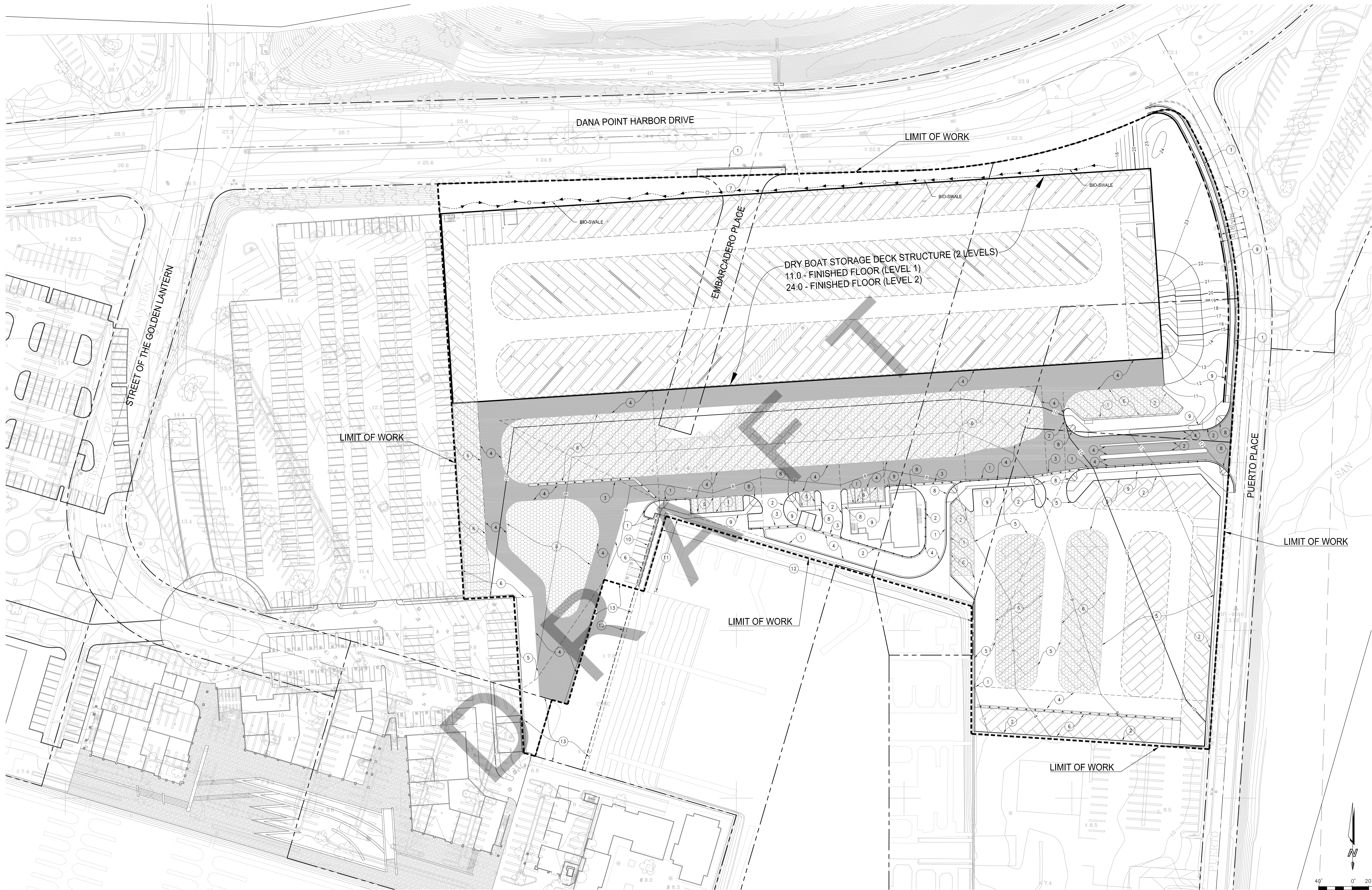
COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



DATE: 04/17/2012
PROJECT #: 307.08
SCALE: 1" = 40'

NORTH
SHEET #: 3

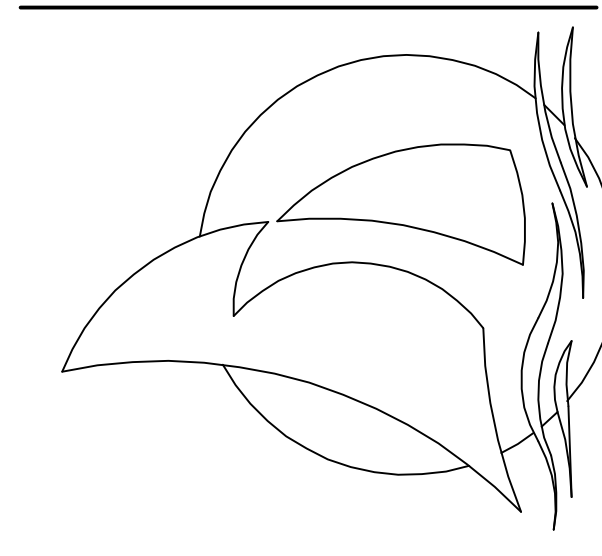
SEWER &
WATER
EXHIBIT



- STREE NOTES**
1. CONSTRUCT 6" CURB & GUTTER
 2. CONSTRUCT 6" CURB ONLY
 3. CONSTRUCT 4" WIDE / 6" THICK CONCRETE V-GUTTER
 4. CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB - FIRE ACCESS
 5. CONSTRUCT 4" THICK AC PAVEMENT OVER 8" THICK CMB - ON-SITE PWMT OTHER THAN FIRE ACCESS
 6. CONSTRUCT POROUS PAVEMENT
 7. CONSTRUCT 6" THICK AC PAVEMENT OVER 12" THICK CMB - PUERTO PLACE
 8. CONSTRUCT 4" THICK P.C.C. CURB RAMP AND CURB RETURN SIDEWALK
 9. CONSTRUCT 4" THICK P.C.C. SIDEWALK
 10. PROTECT IN PLACE EXISTING TRENCH DRAIN AND WATER QUALITY FILTER
 11. PROTECT IN PLACE EXISTING CURB & GUTTER, P.C.C. SIDEWALK, SEA WALL, AND METAL FENCE
 12. PROTECT IN PLACE EXISTING SEA WALL AND METAL FENCE
 13. PROTECT IN PLACE EXISTING P.C.C. CONCRETE PAVING

**OC DANA POINT HARBOR REVITALIZATION
DRY BOAT STORAGE DECK ALTERNATIVE**

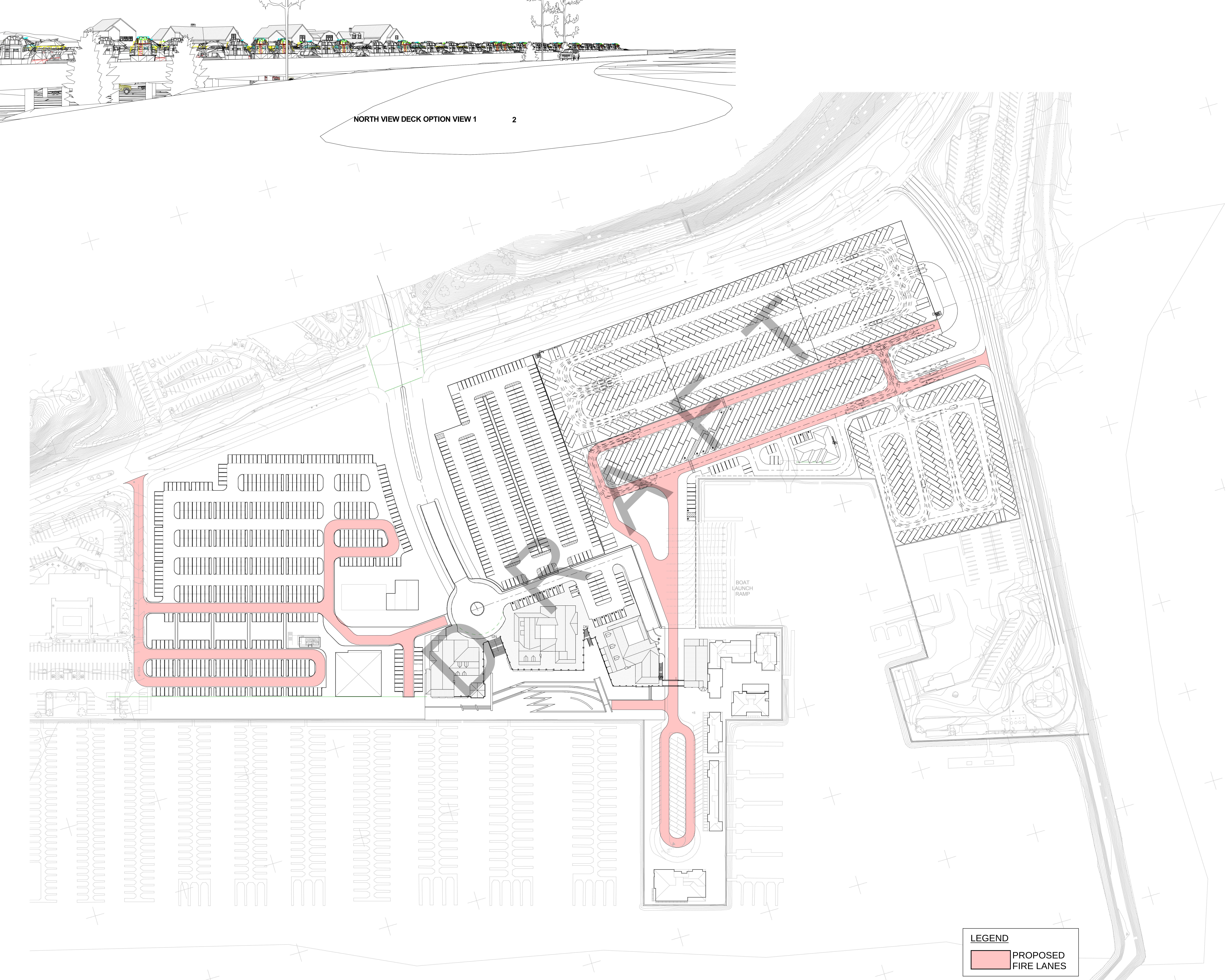
COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA



DATE: 04/17/2012
PROJECT #: 307.08
SCALE: 1" = 40'
0 20 40
NORTH
SHEET #: 4

**GRADING &
PAVING
EXHIBIT**

FUSCOE
ENGINEERING
16795 Von Karmen, Suite 100
Irvine, California 92606
tel 949.474.1960 • fax 949.474.5315
www.fuscoe.com



NORTH VIEW DECK OPTION VIEW 1

2

LEGEND

PROPOSED FIRE LANES

OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA

DATE: 04/17/12
PROJECT #: 2011-40140
SCALE: 1" = 60'-0"

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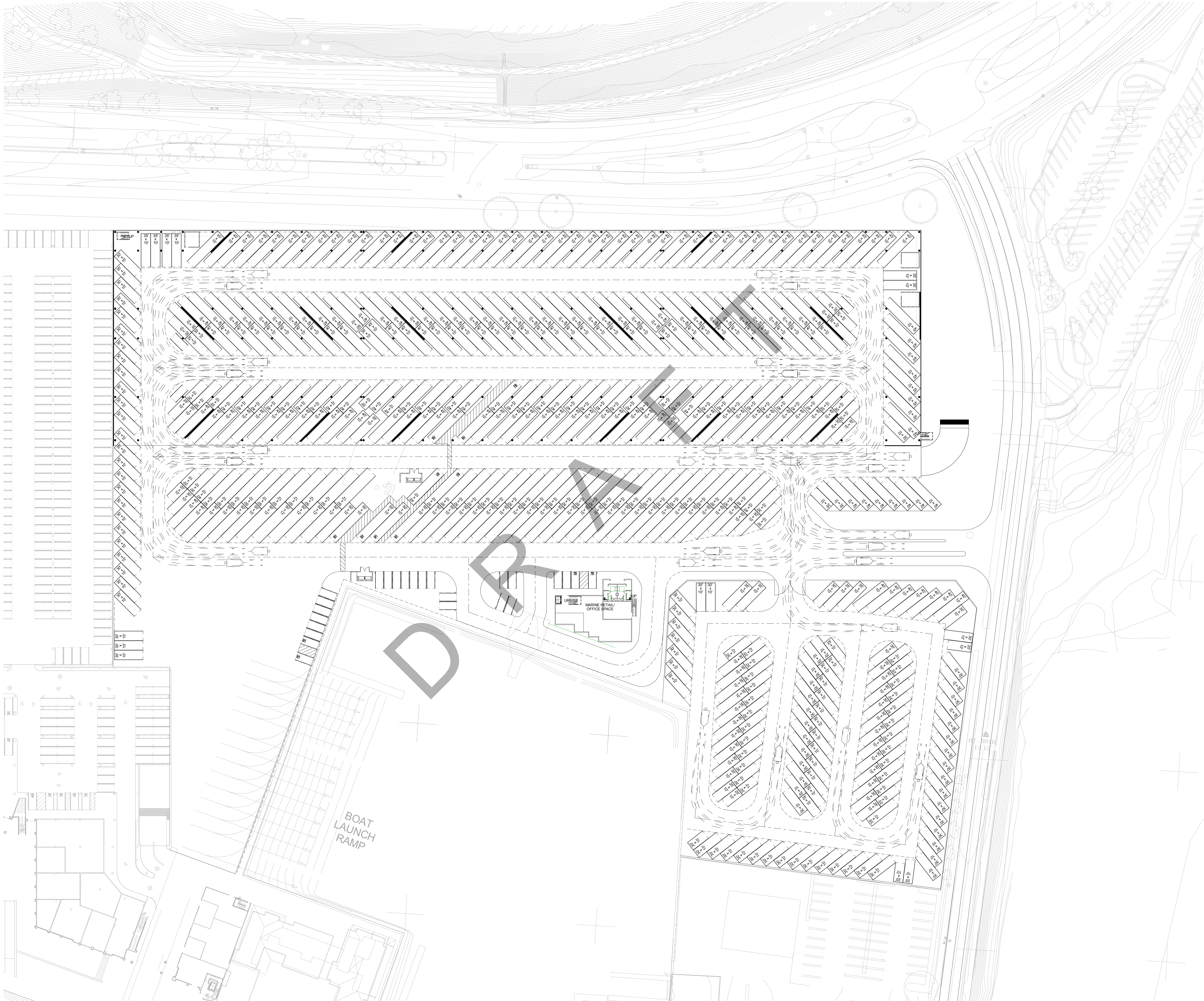
NORTH
SHEET #: A-1.01

**SITE PLAN
DECK
OPTION**

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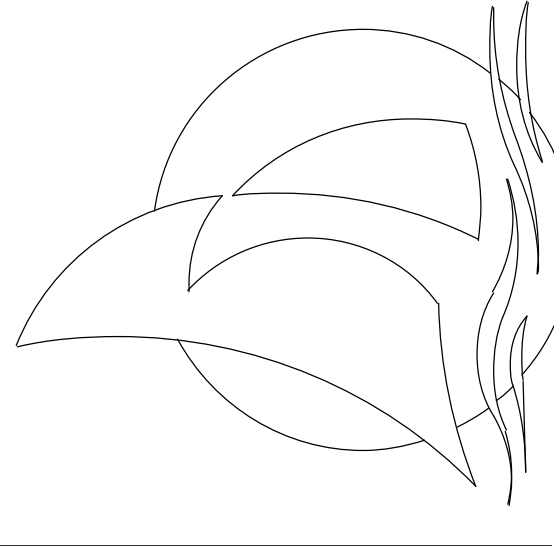
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DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DATE: 04/17/12
PROJECT #: Project Number
SCALE: 1" = 30'-0"
0

NORTH
SHEET #: A-1.00

SITE PLAN

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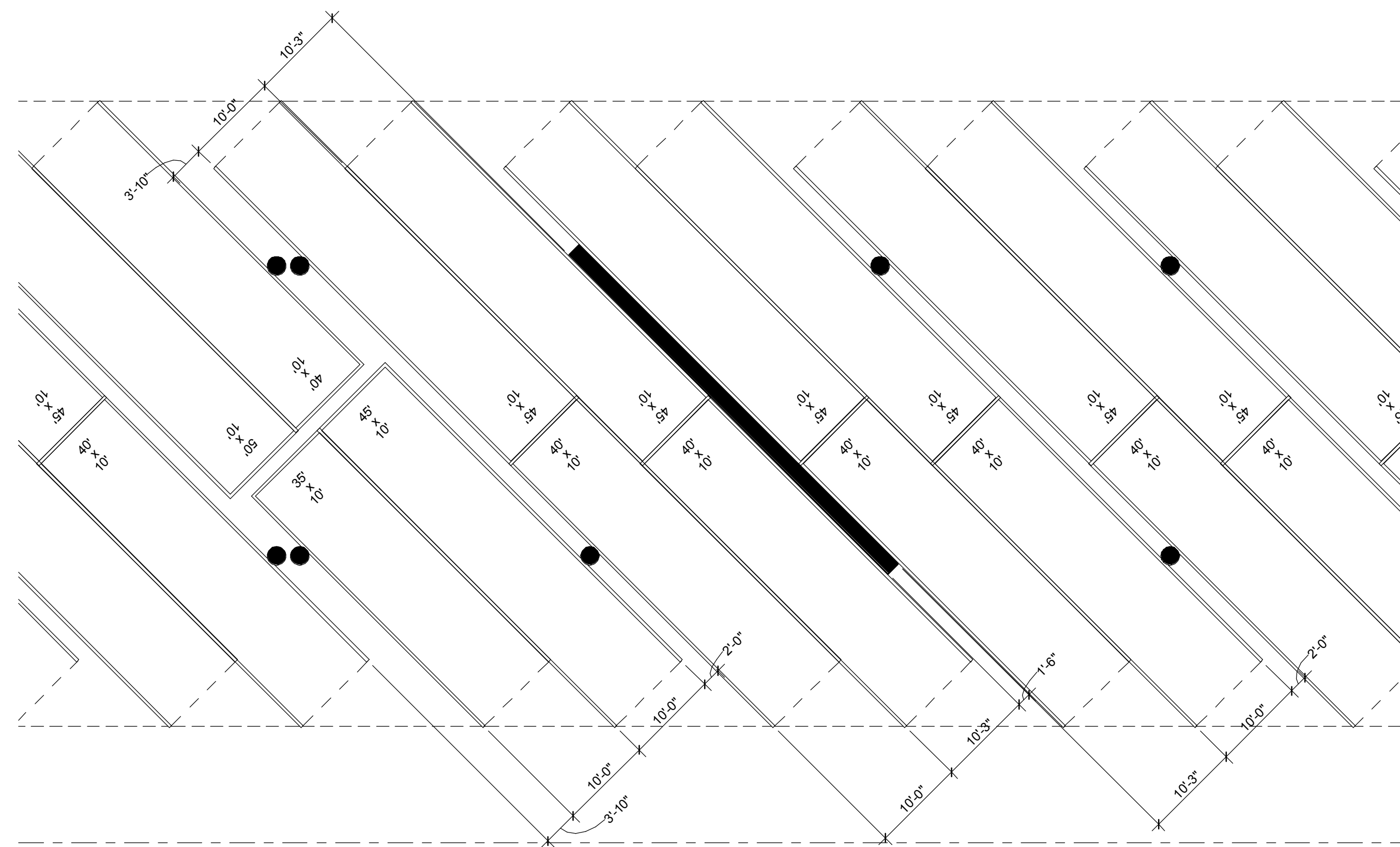
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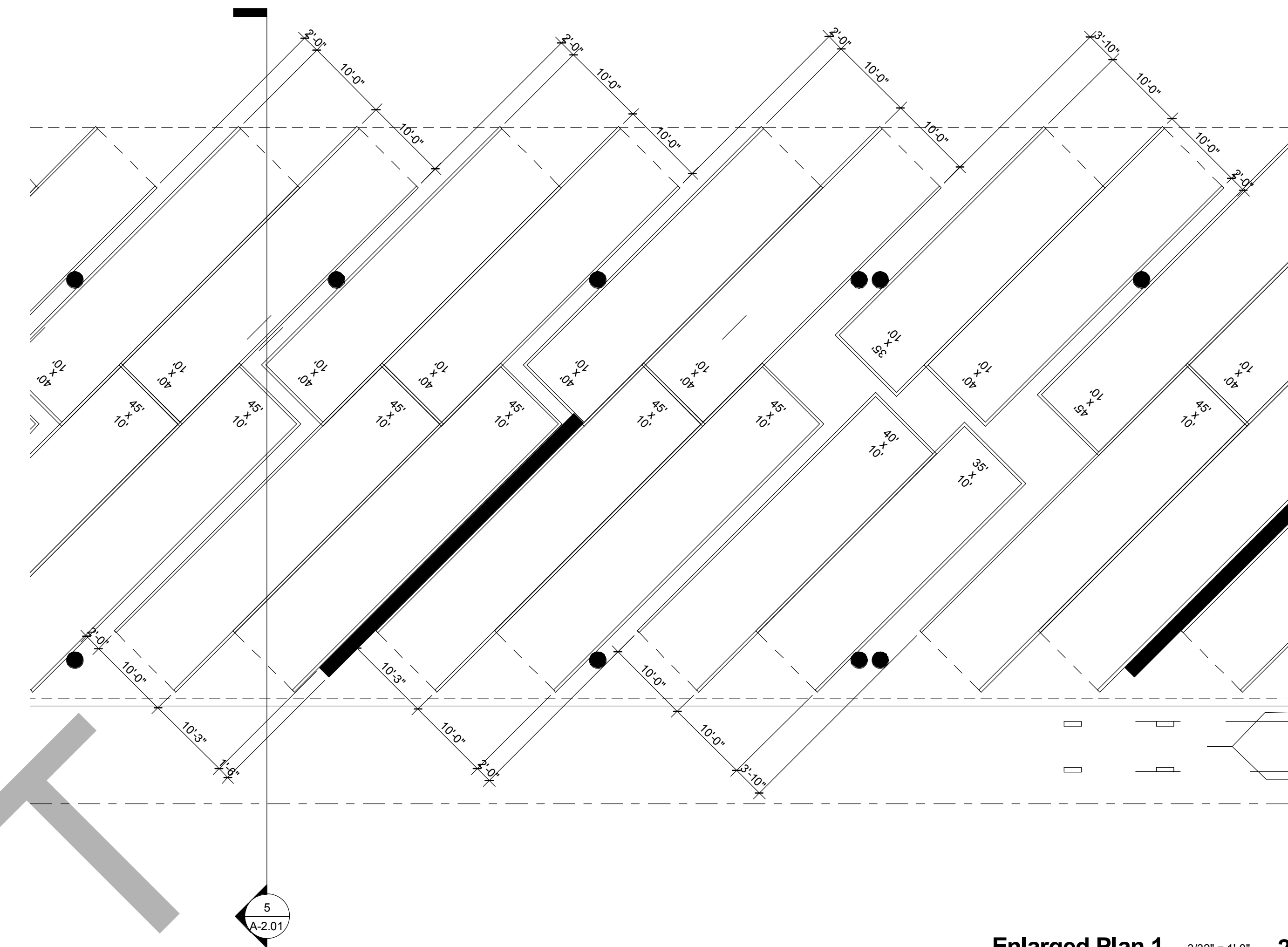
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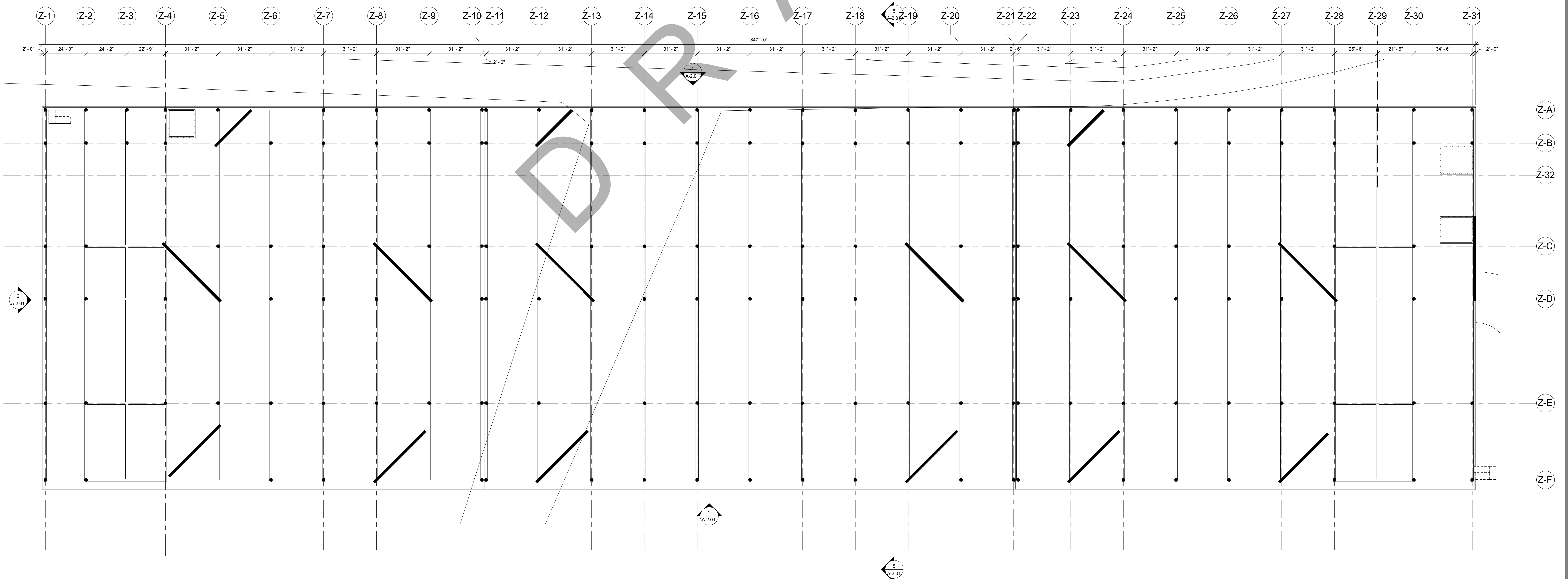
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Enlarged Plan 2 $3/32" = 1'-0"$ **3**



Enlarged Plan 1 3/32" = 1'-0" **2**



Level 1 $3/64^* = 1'-0^*$ **1**



DANA POINT HARBOR REVITALIZATION

DANA POINT HARBOR DRIVE

DATE:	04/17/12
PROJECT #:	Project Number
SCALE:	As indicated

ORTH
HEET #:

CEILING AND ENLARGED PLAN

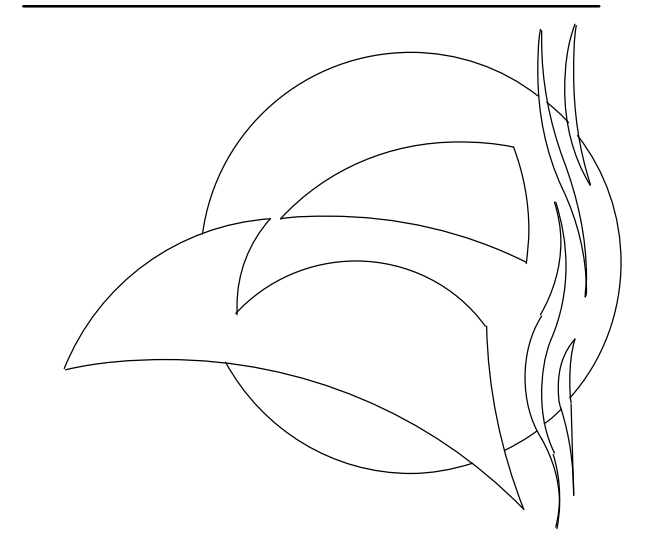
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DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



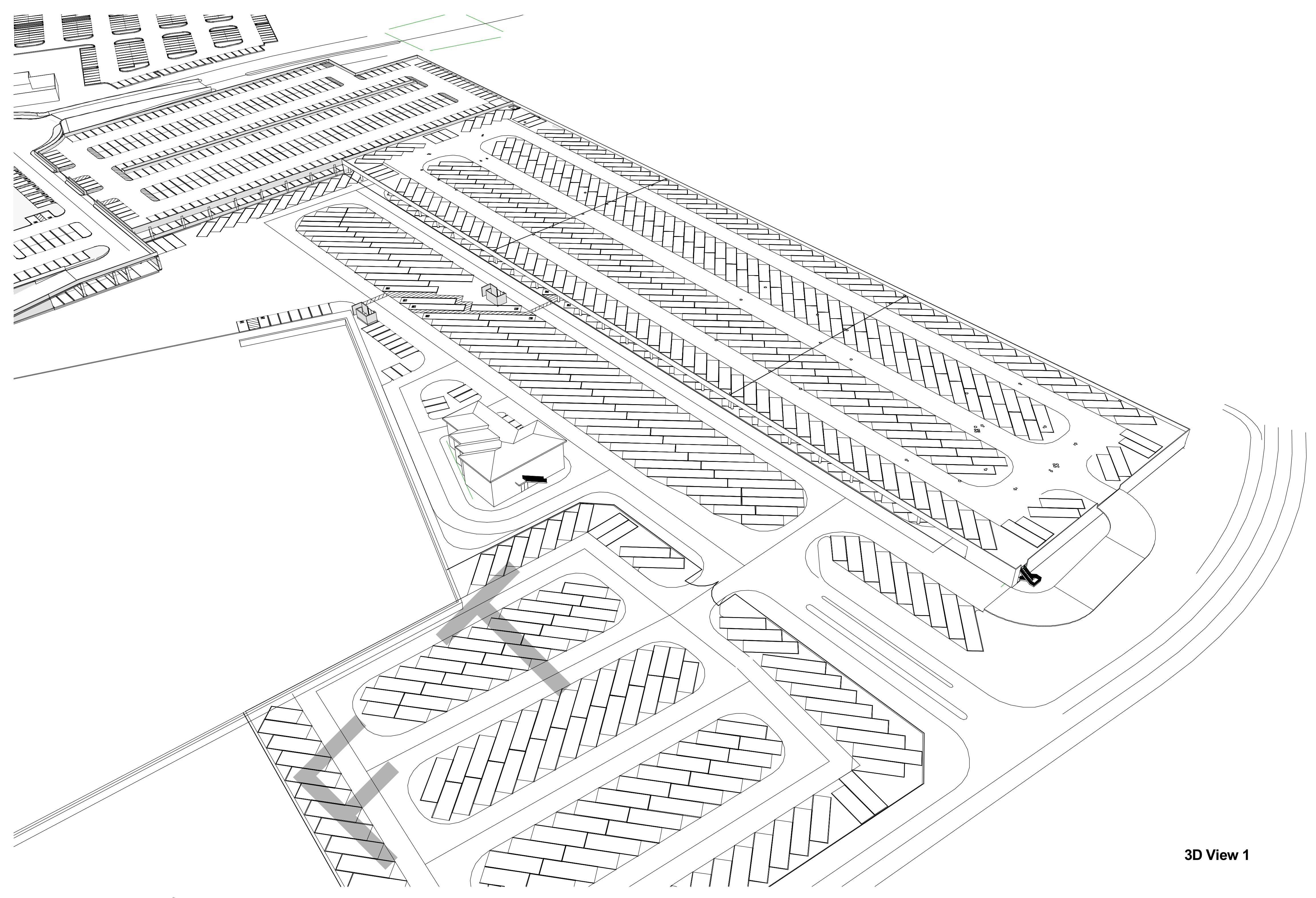
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PROJECT #:	Project Number
SCALE:	As indicated
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NORTH	
SHEET #:	A-2.01

ELEVATIONS
SECTIONS

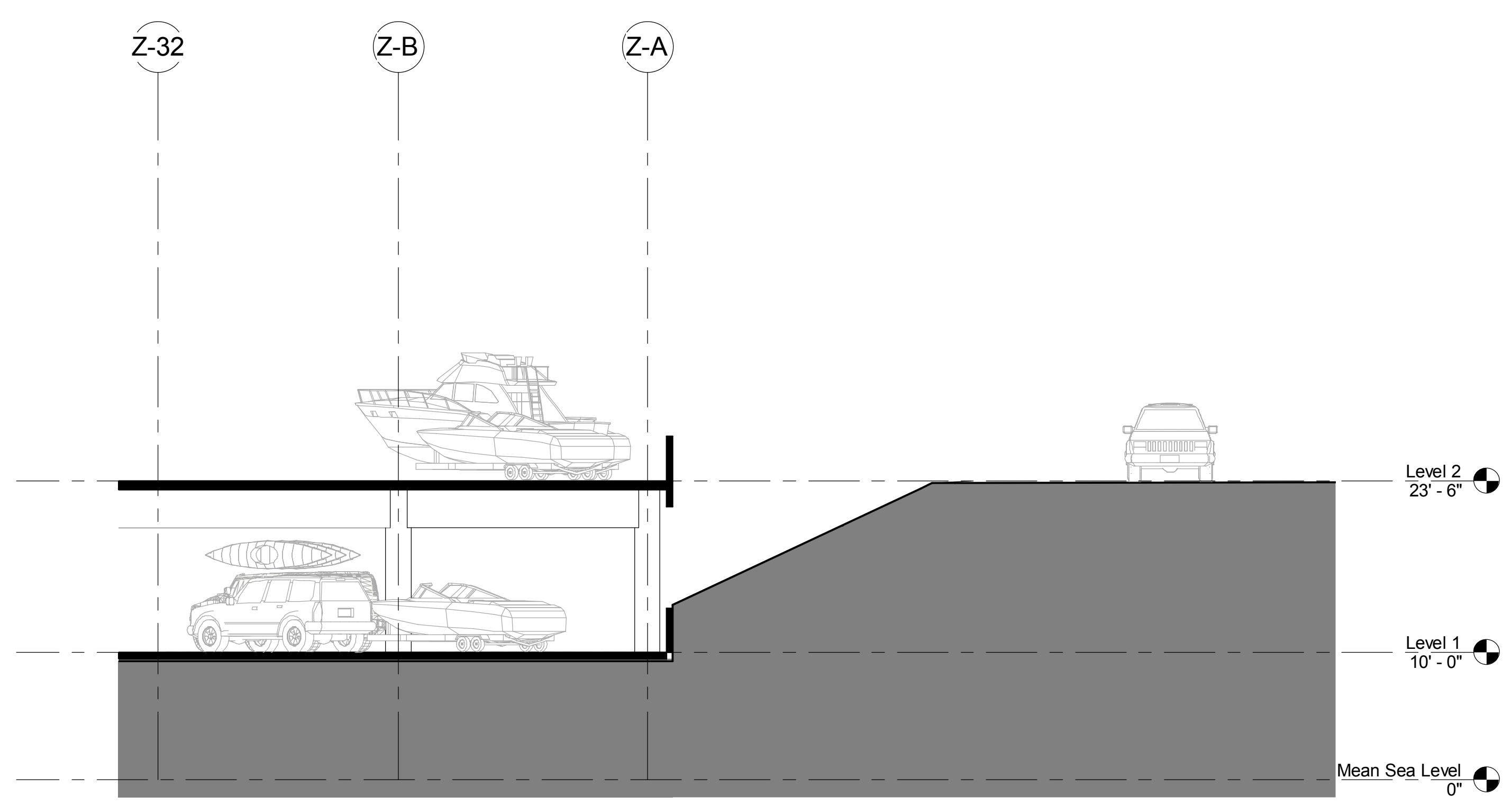
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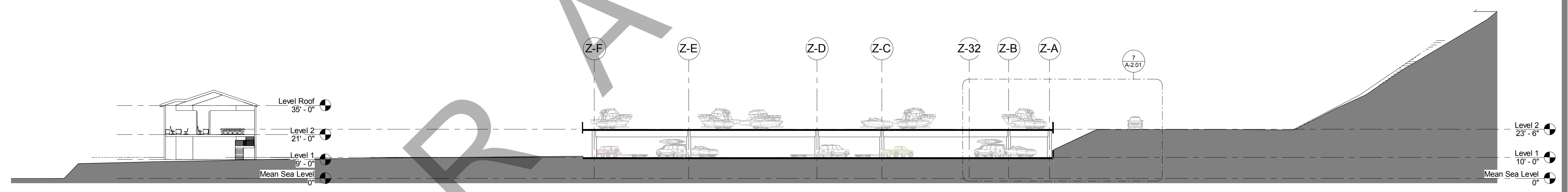
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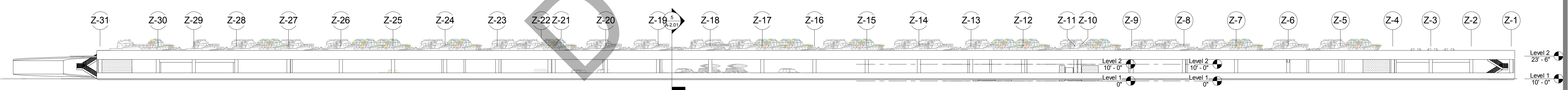
3D View 1 6



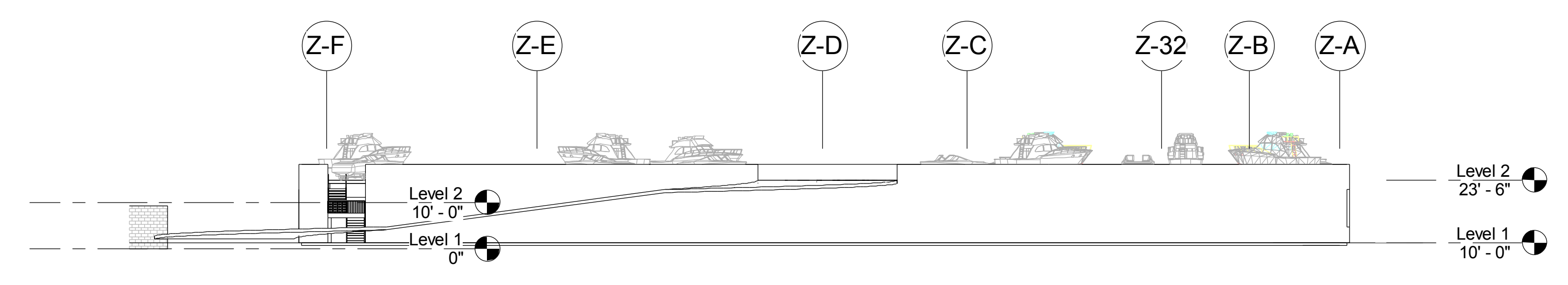
Callout of Section 1 1/8" = 1'-0" 7



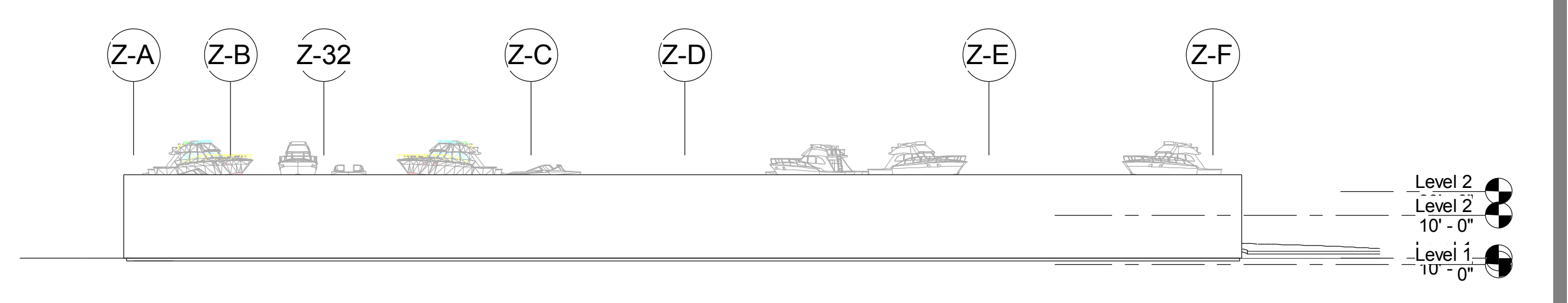
Section 1 3/64" = 1'-0" 5



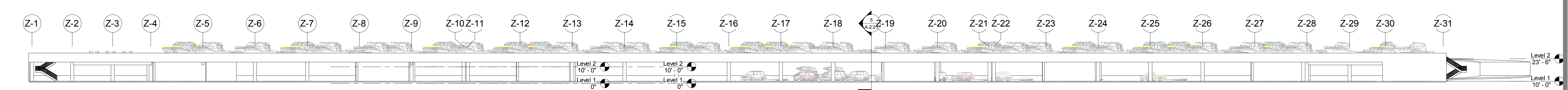
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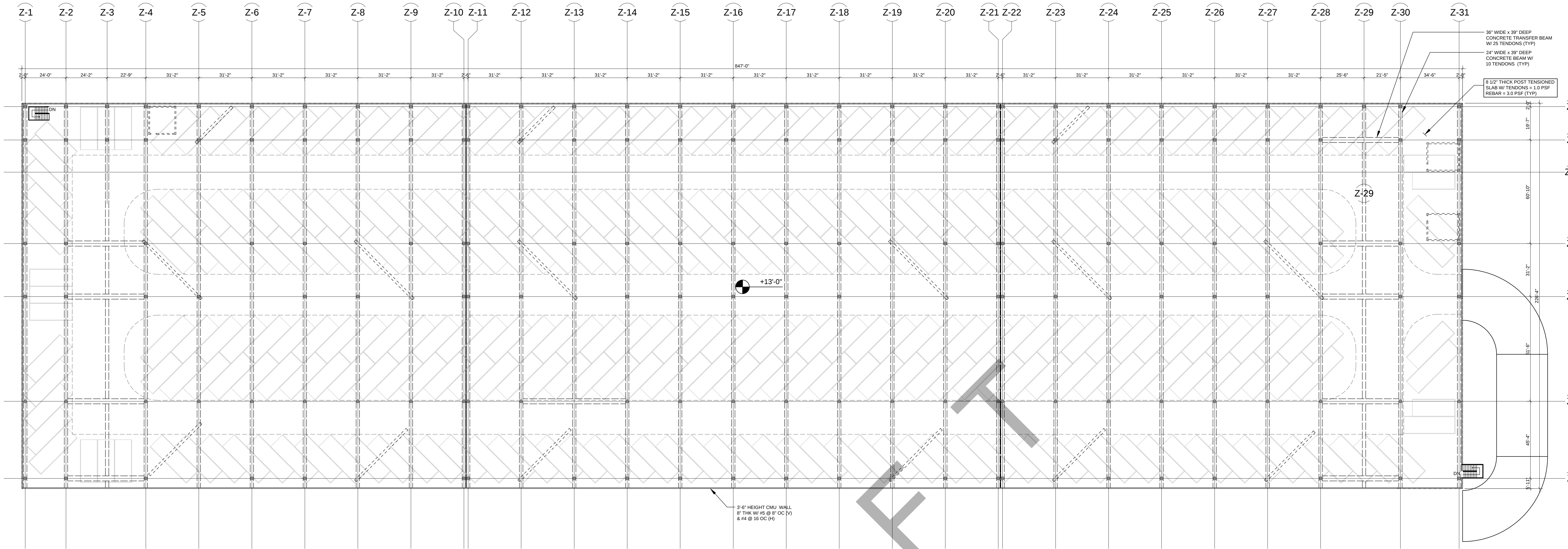
East 3/64" = 1'-0" 3



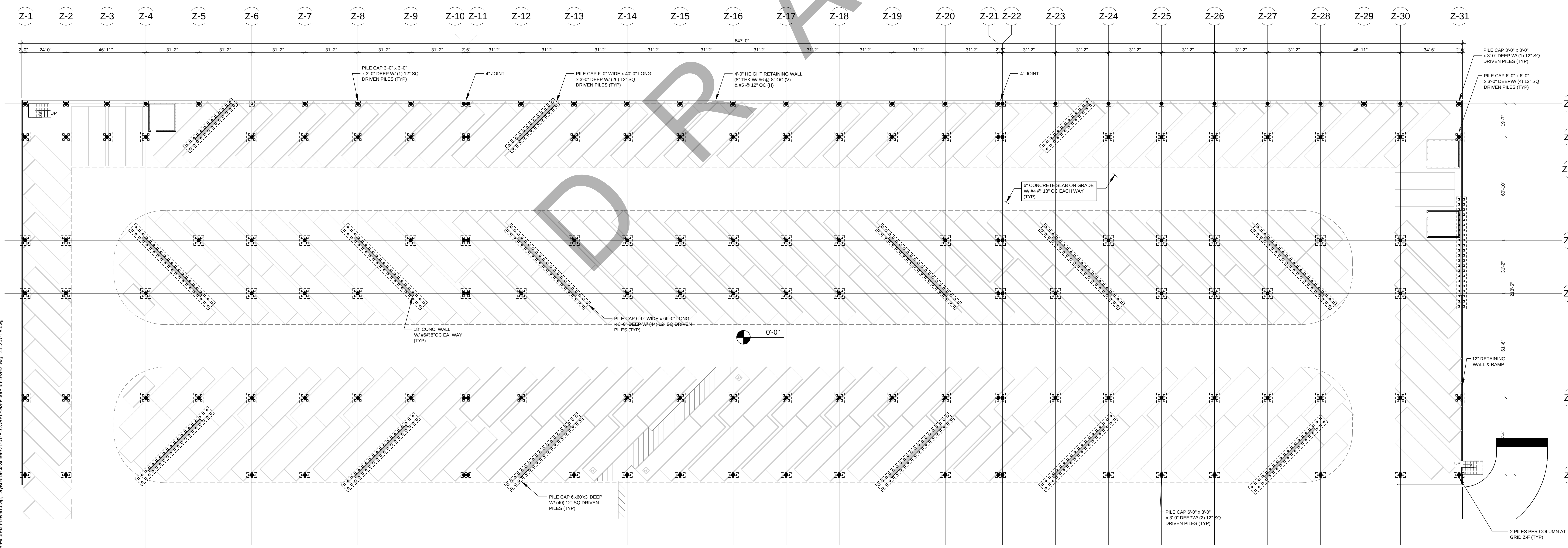
West 3/64" = 1'-0" 2



South 3/64" = 1'-0" 1



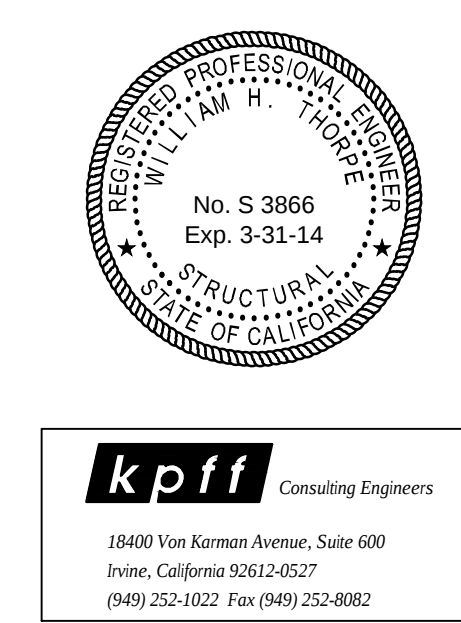
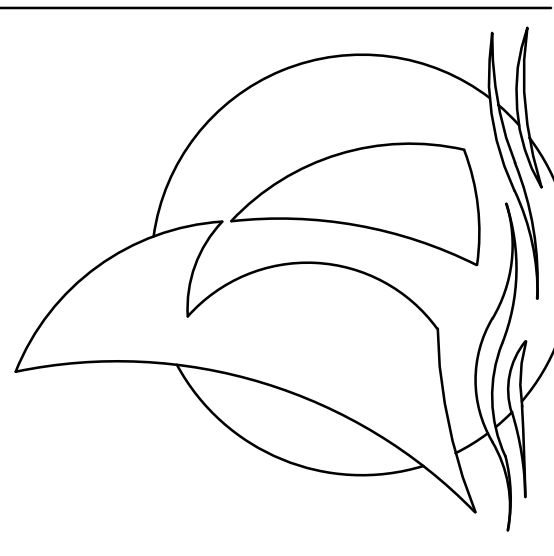
Level 2 SLAB REINFORCING PLAN 3/64\" = 1'-0" 2



Level 1 FOUNDATION PLAN 3/64\" = 1'-0" 1

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



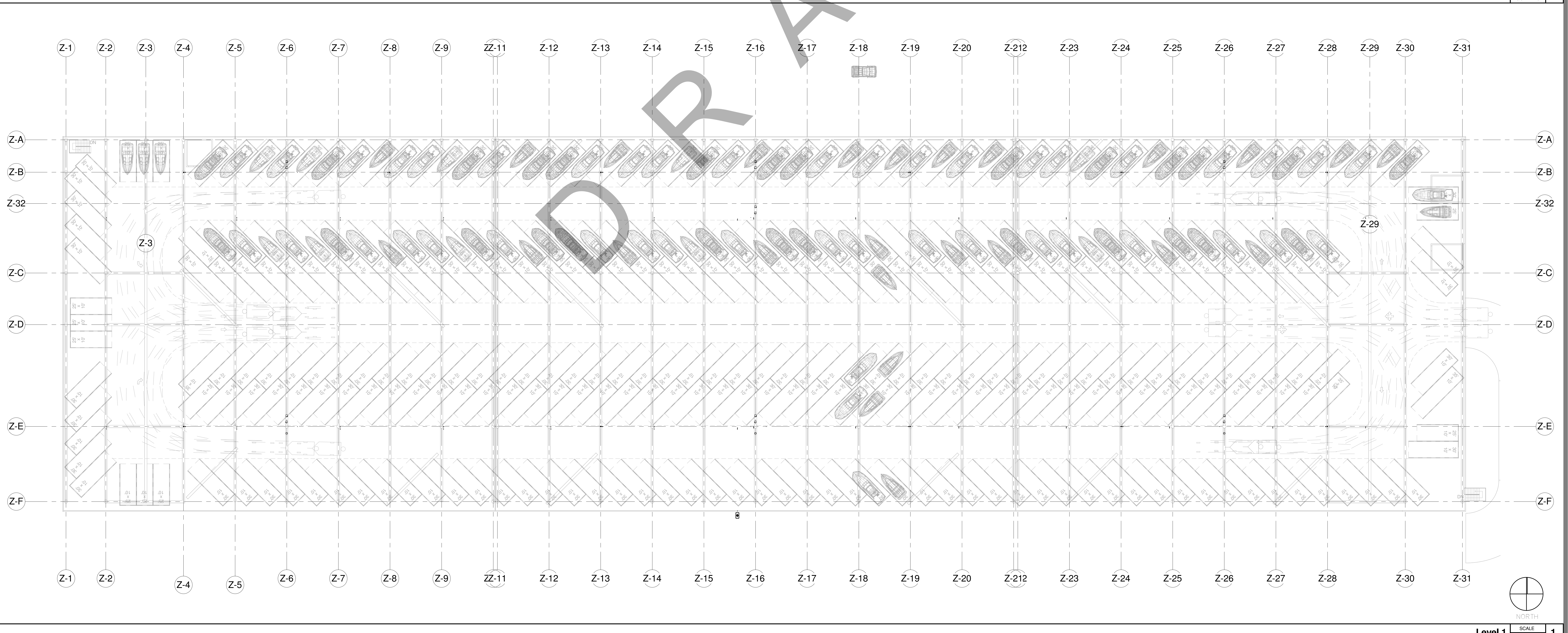
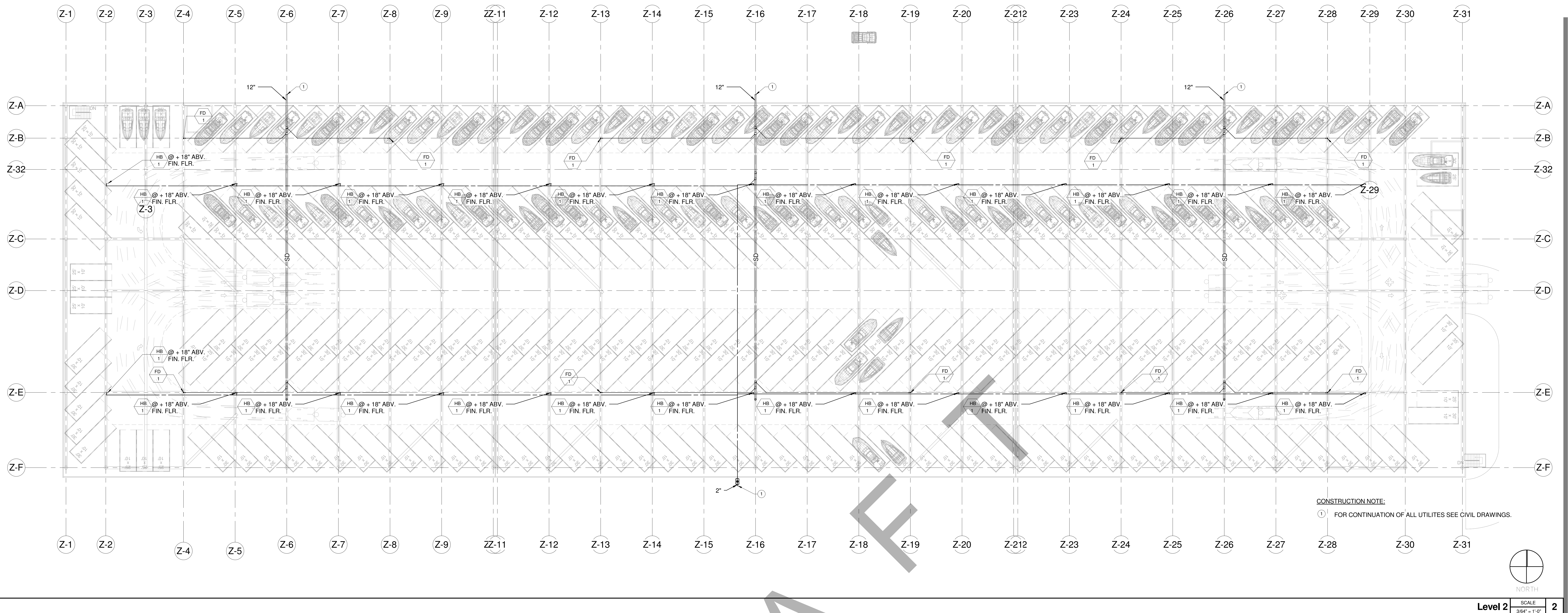
DATE:	Issue Date
PROJECT #:	Project Number
SCALE:	3/64\" = 1'-0"
0	
NORTH	
SHEET #:	S-1.01

Foundation and Slab Reinforcing Plan

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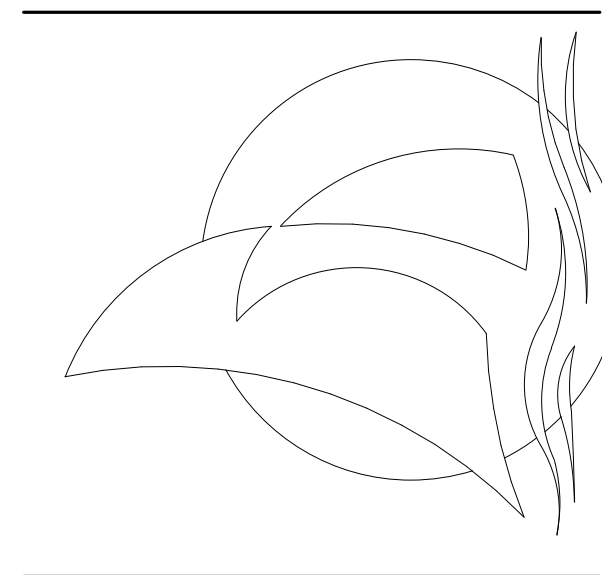
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DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



BP
Consulting Engineers
3 Peters Canyon, Suite 100
Irvine, California 92618
Telephone (949) 417-3900
Fax (949) 417-3908

DATE:	Issue Date
PROJECT #:	Project Number
SCALE:	3/64" = 1'-0"
0	

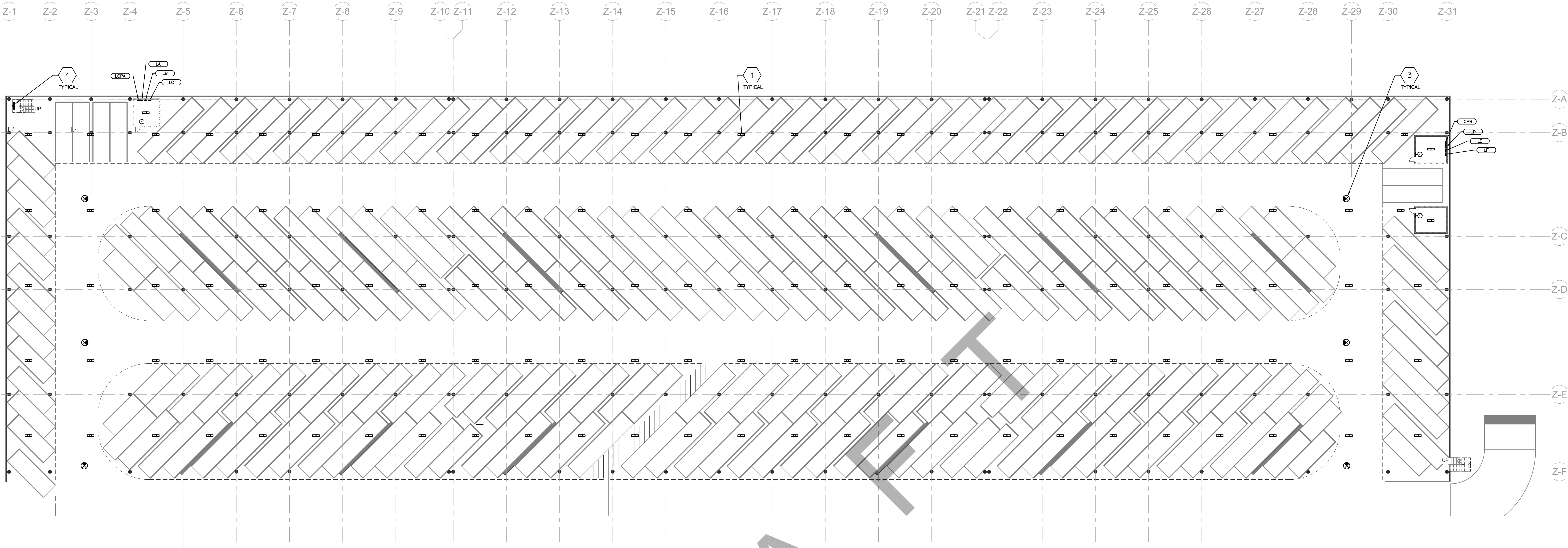
NORTH
SHEET # : P-2.01

PLUMBING
FLOOR
PLANS

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LIGHTING PLAN - LEVEL 1
SCALE: 3/64" = 1'-0"

LIGHTING PLAN GENERAL NOTES:

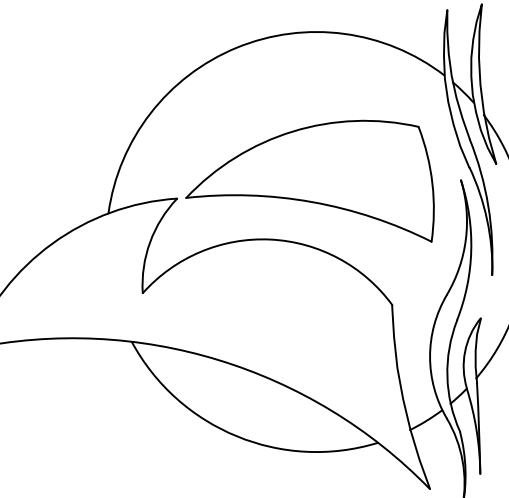
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
- ALL COVE MOUNTED FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
- ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- ALL FLUORESCENT DIMMING ZONES/CHANNELS SHALL BE PROVIDED WITH 3 LINE VOLTAGE CONDUCTORS (NEUTRAL, DIMMED HOT, SWITCHED HOT) OR 2 LINE VOLTAGE CONDUCTORS/2 CONTROL CONDUCTORS AS REQUIRED BY THE CONTROL/BALLAST TYPE.
- ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD. SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR MORE INFORMATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
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 - VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
- ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHA SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
- RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
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- REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTES FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.

PLAN NOTES:

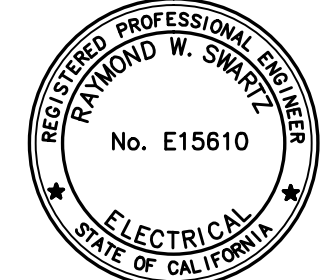
1 --

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



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1532 E Warner Ave - Santa Ana, CA 92705
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JERRY LEONARDOT



DATE: Issue Date
PROJECT #: Project Number
SCALE: AS NOTED

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NORTH
SHEET #: E-2.01

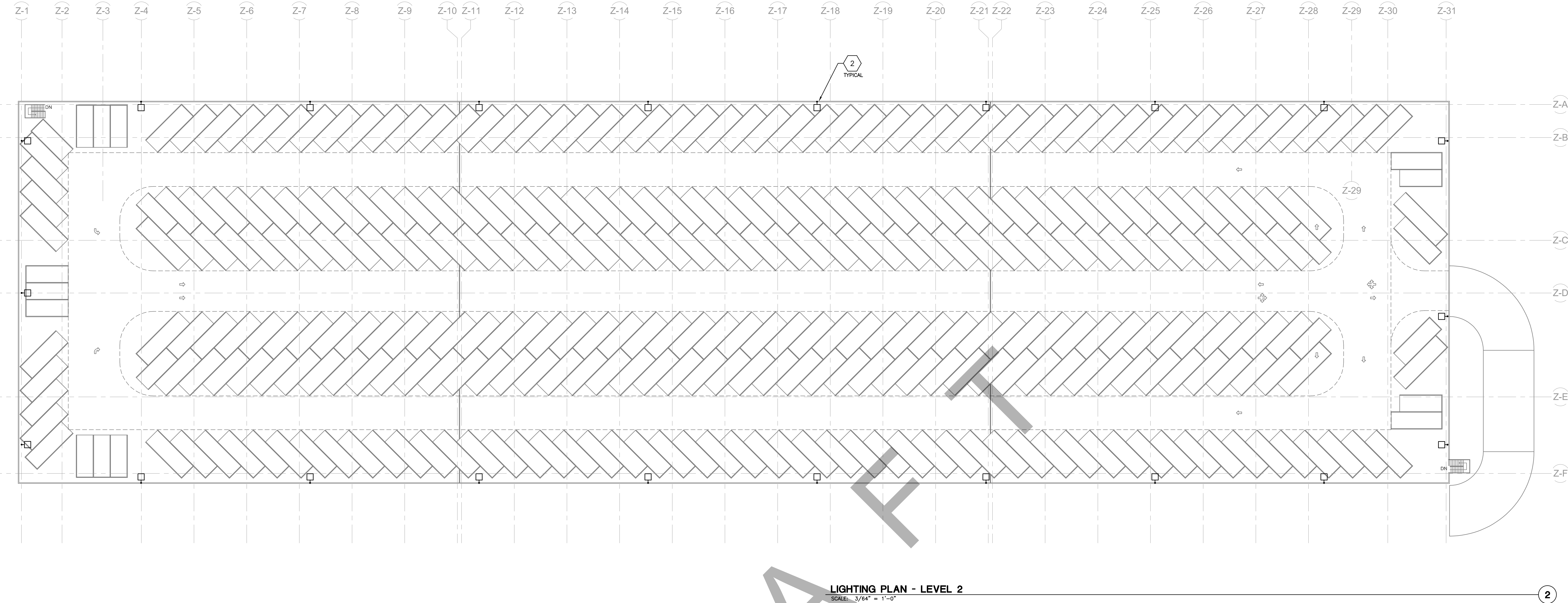
PARKING
GARAGE LVL 1
LIGHTING
PLAN

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P:\111899 - Dana Point Harbor\03 Parking Detail\DWG\111899-03-2501-02202.dwg, E:202, 4/19/2012 4:19:11 PM, hnmwatt, 1:1

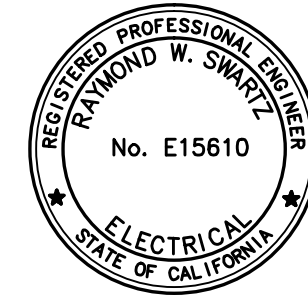


LIGHTING PLAN GENERAL NOTES:

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- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BUILD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTES FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.

PLAN NOTES:

1 --



DATE: Issue Date
PROJECT #: Project Number
SCALE: AS NOTED

0

NORTH
SHEET #: E-2.02

PARKING GARAGE LVL 2 LIGHTING PLAN

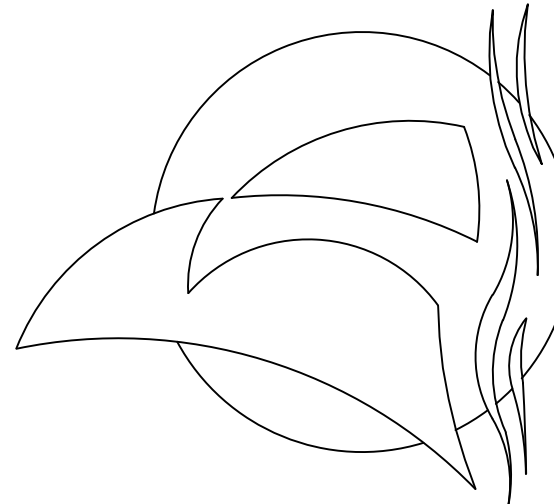
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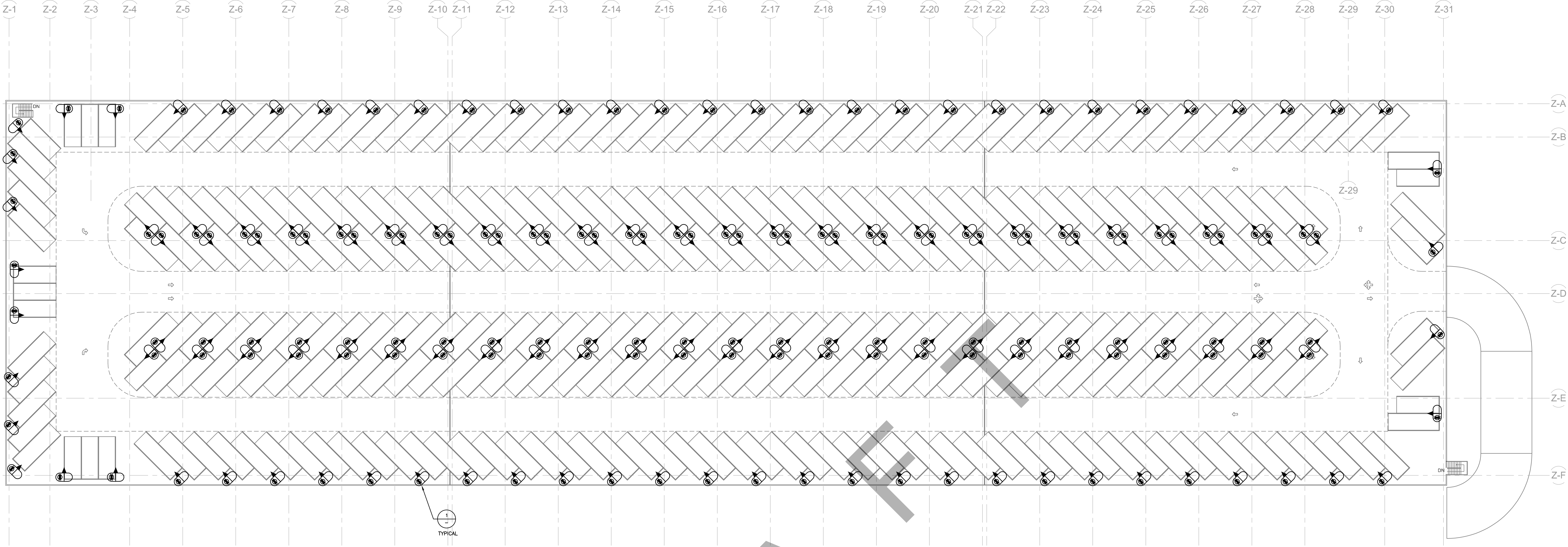
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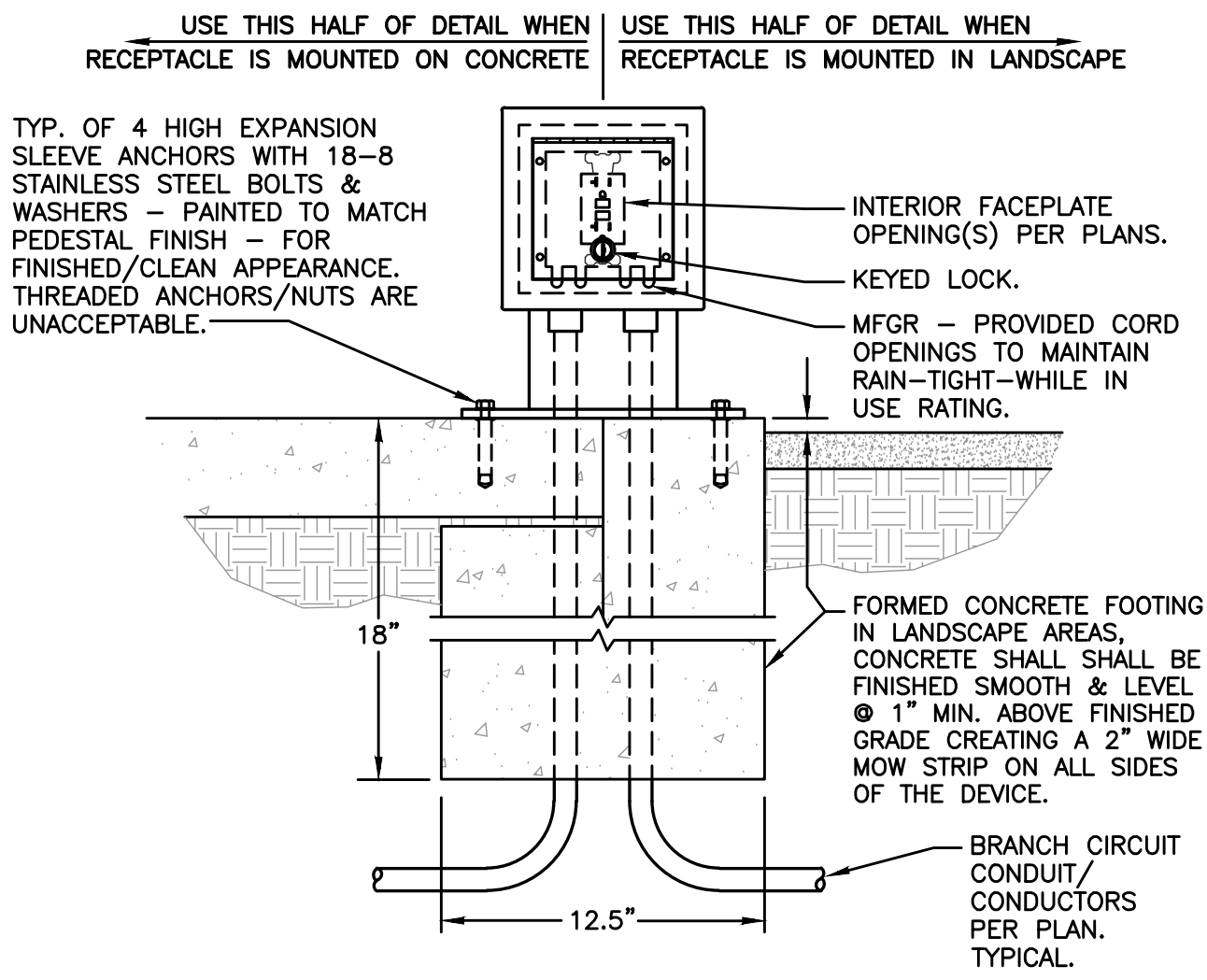
DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE





POWER PLAN - LEVEL 2
SCALE: 3/64" = 1'-0"



SINGLE SERVICE "WP-C" SITE RECEPTACLE DETAIL
SCALE: N.T.S.

COMMUNICATIONS PATHWAYS GENERAL NOTES:

- CONDUITS SHALL, (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND, (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
- CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
- CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS, AND, (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
- TERMINATE CONDUITS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
- INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
- FLEX CONDUIT IS GENERALLY UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND AS APPROVED IN WRITING BY THE ENGINEER.
- ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE SITE UTILITY PLAN, NOTES FOR ADDITIONAL UNDERGROUND COMMUNICATIONS CONDUIT SEALING REQUIREMENTS.
- ALL PULLBOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA/EIA-569B. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULLBOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3 RATED. PULLBOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	18"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	8"
4"	15"	60"	6"	8"

FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA/EIA 569B TABLE 12. - LATEST PUBLISHED EDITION.

- CONDUIT(S) SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
- PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
- PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

POWER PLAN GENERAL NOTES:

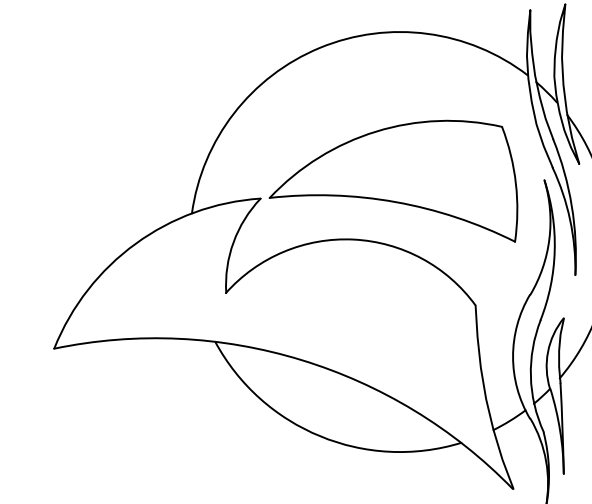
- ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
- ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
- WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
 - ALL BRANCH CIRCUITS SHALL BE IN EMT.
 - ALL BRANCH CIRCUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
- PROVIDE G.F.C.I. TYPE RECEPTACLE(S) WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, AND WITHIN ANY KITCHEN SPACE.
- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

PLAN NOTES:

1 ?????

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



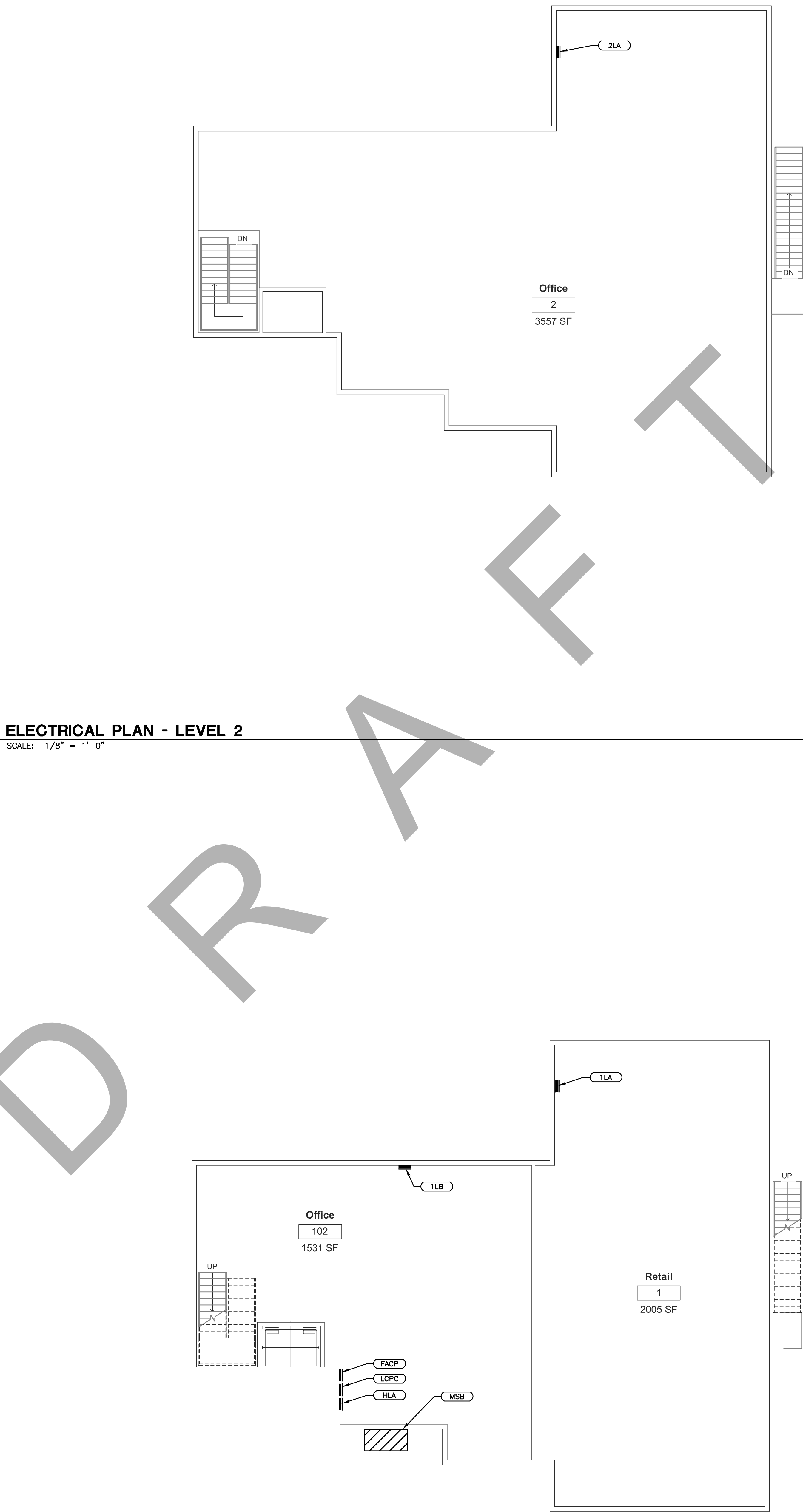
DATE:	Issue Date
PROJECT #:	Project Number
SCALE:	AS NOTED
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NORTH	
SHEET #:	E-3.02

PARKING GARAGE LVL 2 POWER PLAN

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ELECTRICAL PLAN - LEVEL 2

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

2

ELECTRICAL PLAN - LEVEL 1

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

1

PLAN NOTES:

1) ?????

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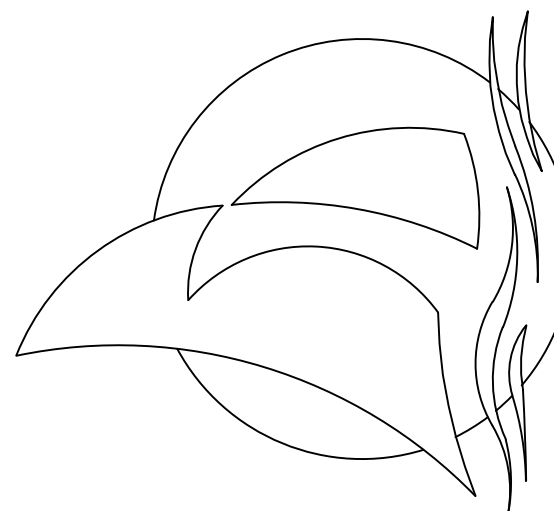
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DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



K CONSULTING
1532 E Warner Ave - Santa Ana, CA 92705
(714) 868-1400 - (714) 868-4218 Fax
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JERRY LEONARDOT



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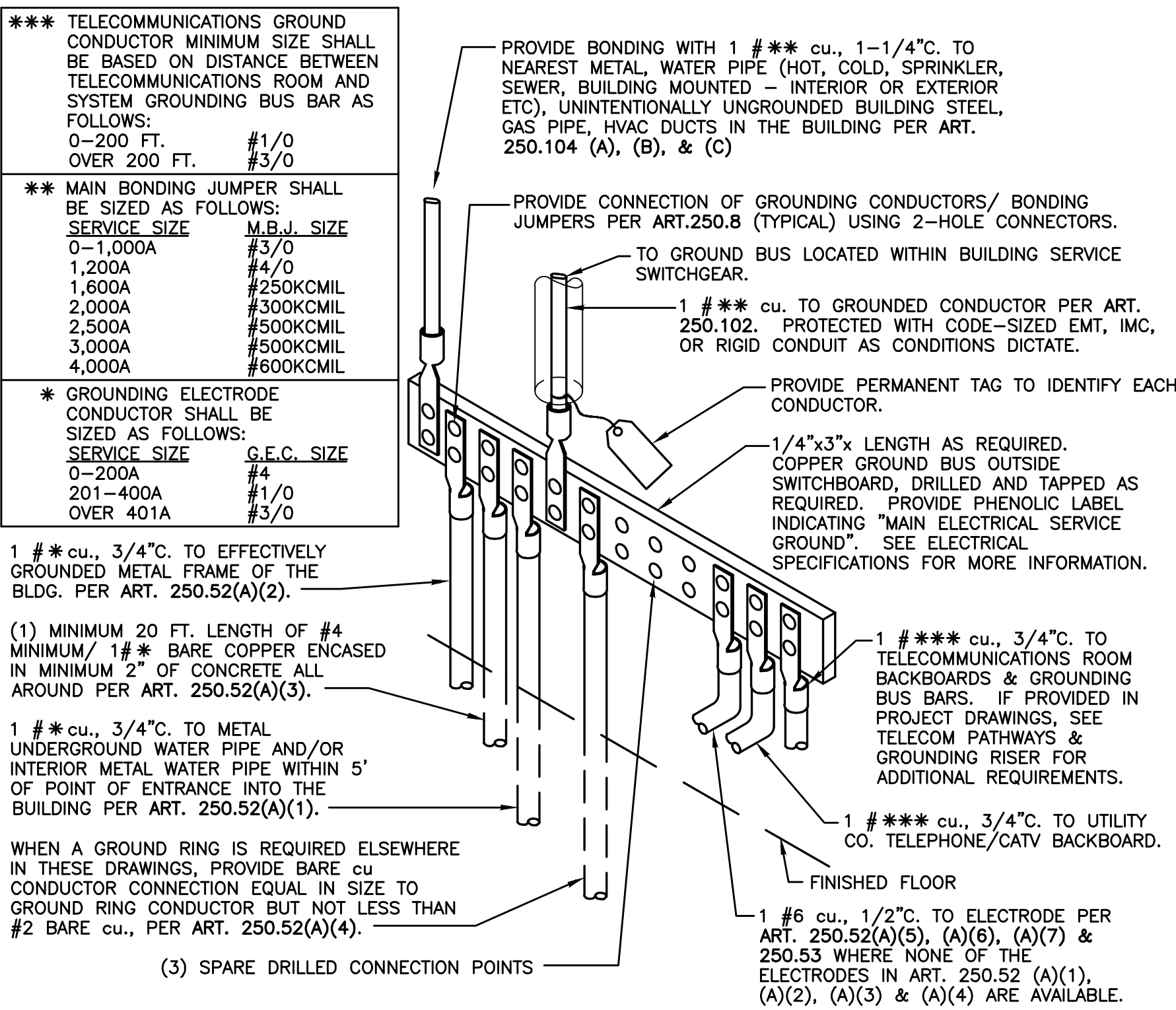
NORTH
SHEET #: E-3.03

MARINE SERVICE BLDG
ELECTRICAL
PLAN

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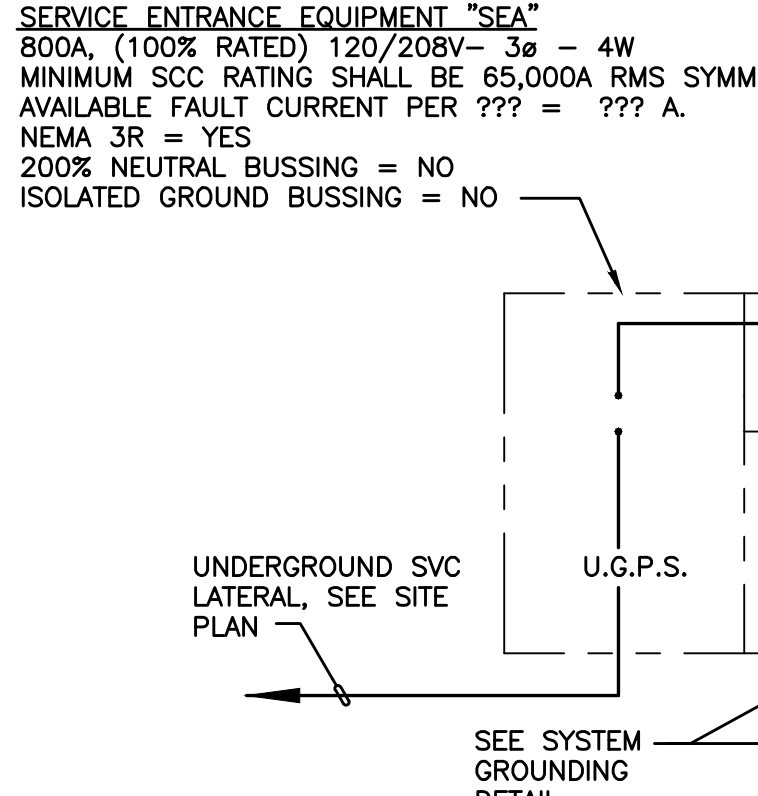
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Irvine, California 92614
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info@mve-institutional.com
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SYSTEM GROUNDING DETAIL

SCALE: NTS

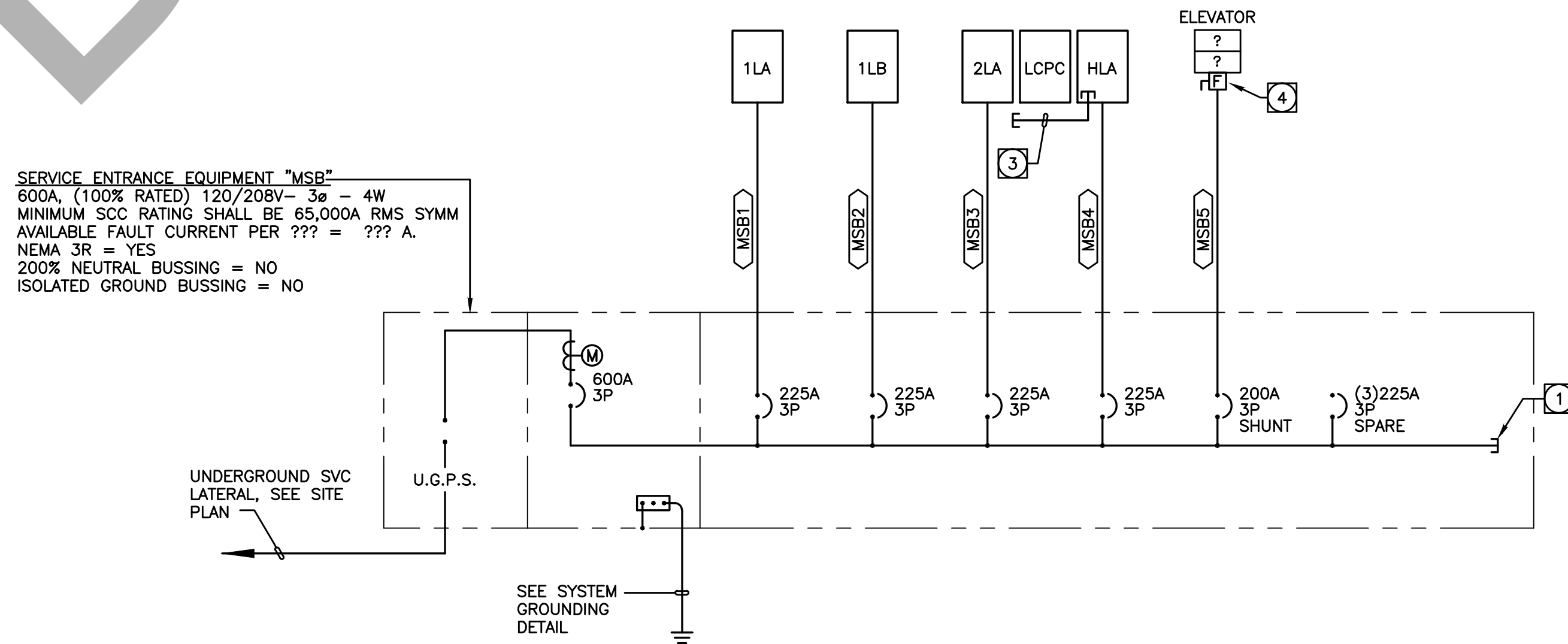
3



PARKING GARAGE SINGLE LINE DISTRIBUTION DIAGRAM

SCALE: N.T.S.

1



MARINE SERVICE BUILDING SINGLE LINE DISTRIBUTION DIAGRAM

SCALE: N.T.S.

2

GENERAL SINGLE LINE DIAGRAM NOTES:

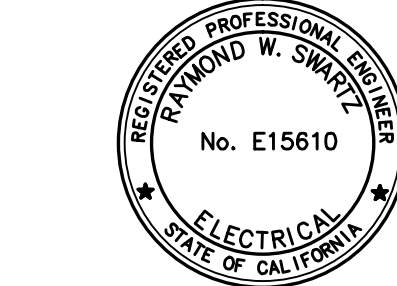
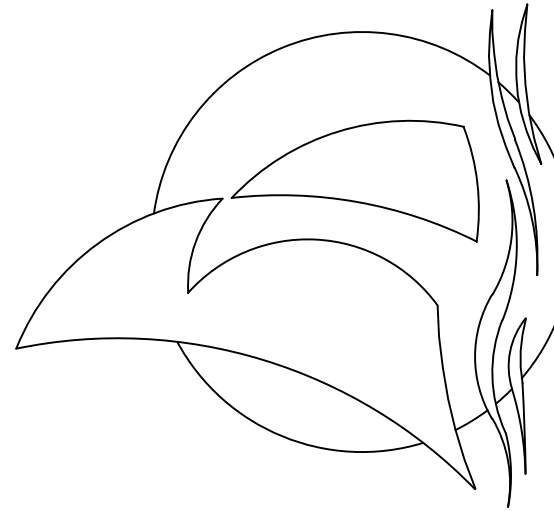
- ALL SWITCHGEAR SHALL BE SQUARE D OR EQUAL BY CUTLER-HAMMER, RSE-SIERRA, G.E., OR SIEMENS.
- ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
- ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
- SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY UL IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING. WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
CAUTION - SERIES COMBINATION SYSTEM RATED AT ???
AMPERES. USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN THIS SYSTEM.
WHERE ??? REPRESENTS AVAILABLE FAULT CURRENT. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
- ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFEED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH A SOLID STATE MAIN OVERCURRENT DEVICE, IF SHOWN ON PLANS, AND WITH BUSSING RATED AT 100% OPERATION. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFEED-RATED, BACKFEED RATINGS SHALL COMPLY WITH NEC, OR CEC WHERE ADOPTED. 680.64(B)(5). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
- ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
 - TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
 - LUSS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
 - PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
- CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS TRANSFORMERS, PANEL BOARDS AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE PRIOR TO FABRICATION.
- ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4"= 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- SEE POWER SYSTEMS STUDY SPECIFICATION FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH SWITCHGEAR SUBMITTAL FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE SWITCHGEAR SUBMITTAL AS INCOMPLETE.
- WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS PER THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD.

SPECIFIC SINGLE LINE NOTES:

- BUSSING SHALL BE PROVIDED FOR FUTURE BUS EXTENSION TO FUTURE DISTRIBUTION SYSTEM.
- PROVIDE (1) 4" c.o. FOR EVERY 800 AMPS OF SERVICE SIZE (MINIMUM OF ONE) STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
- PROVIDE (4) 1" c.o. STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
- SEE MOTORIZED EQUIPMENT SCHEDULE FOR MORE INFORMATION.

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DATE: Issue Date
PROJECT #: Project Number
SCALE: AS NOTED

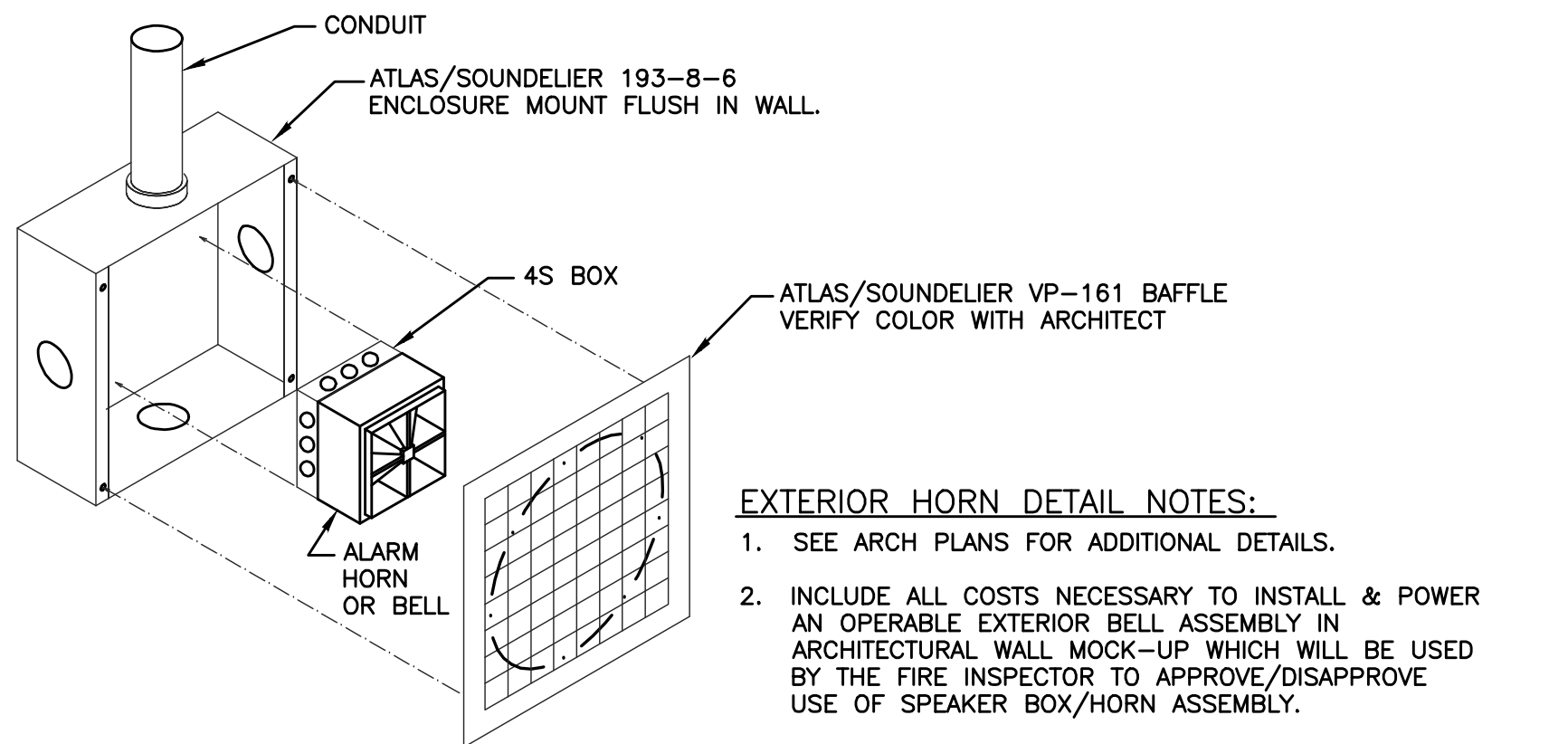
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SINGLE LINE DIAGRAM

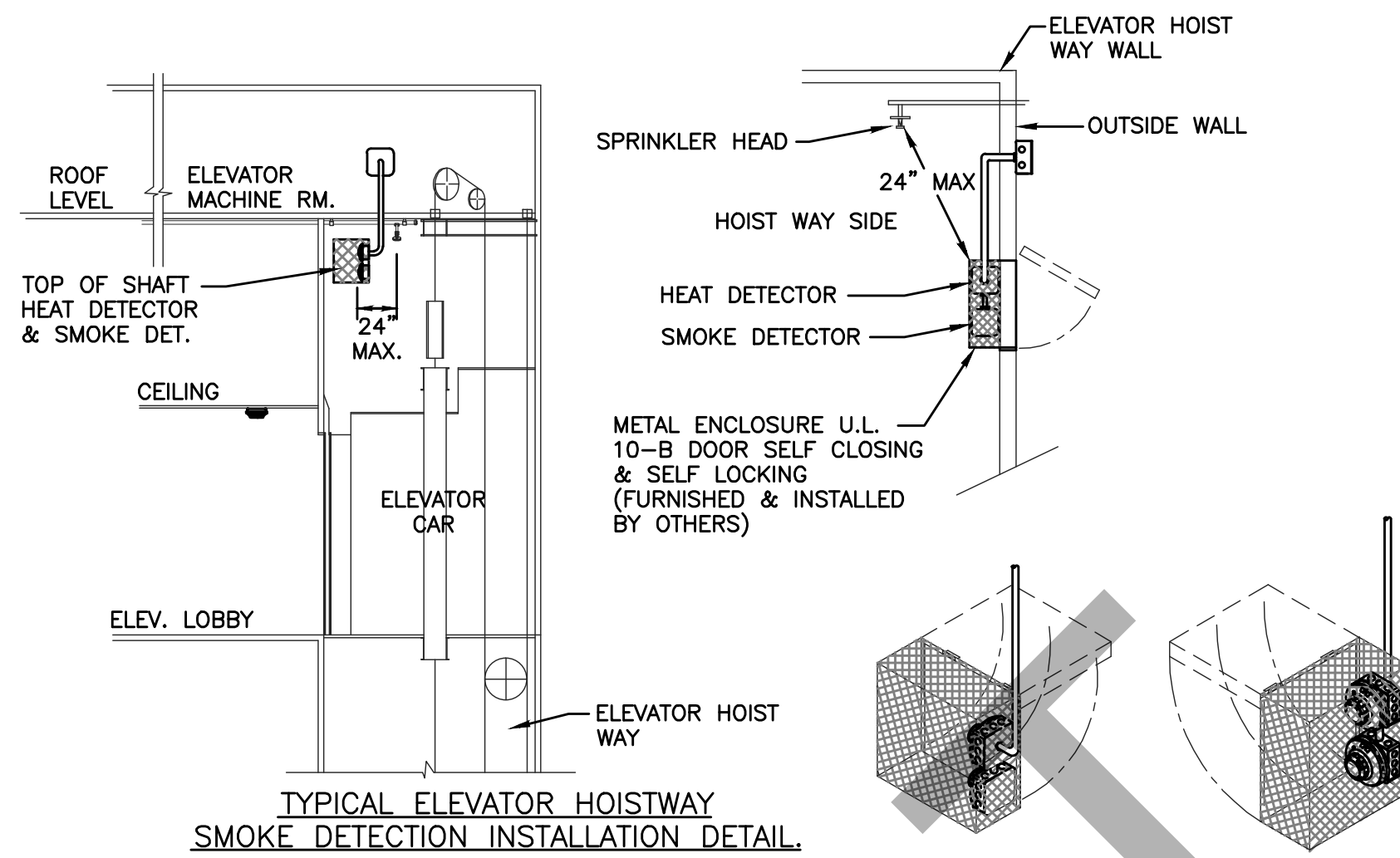
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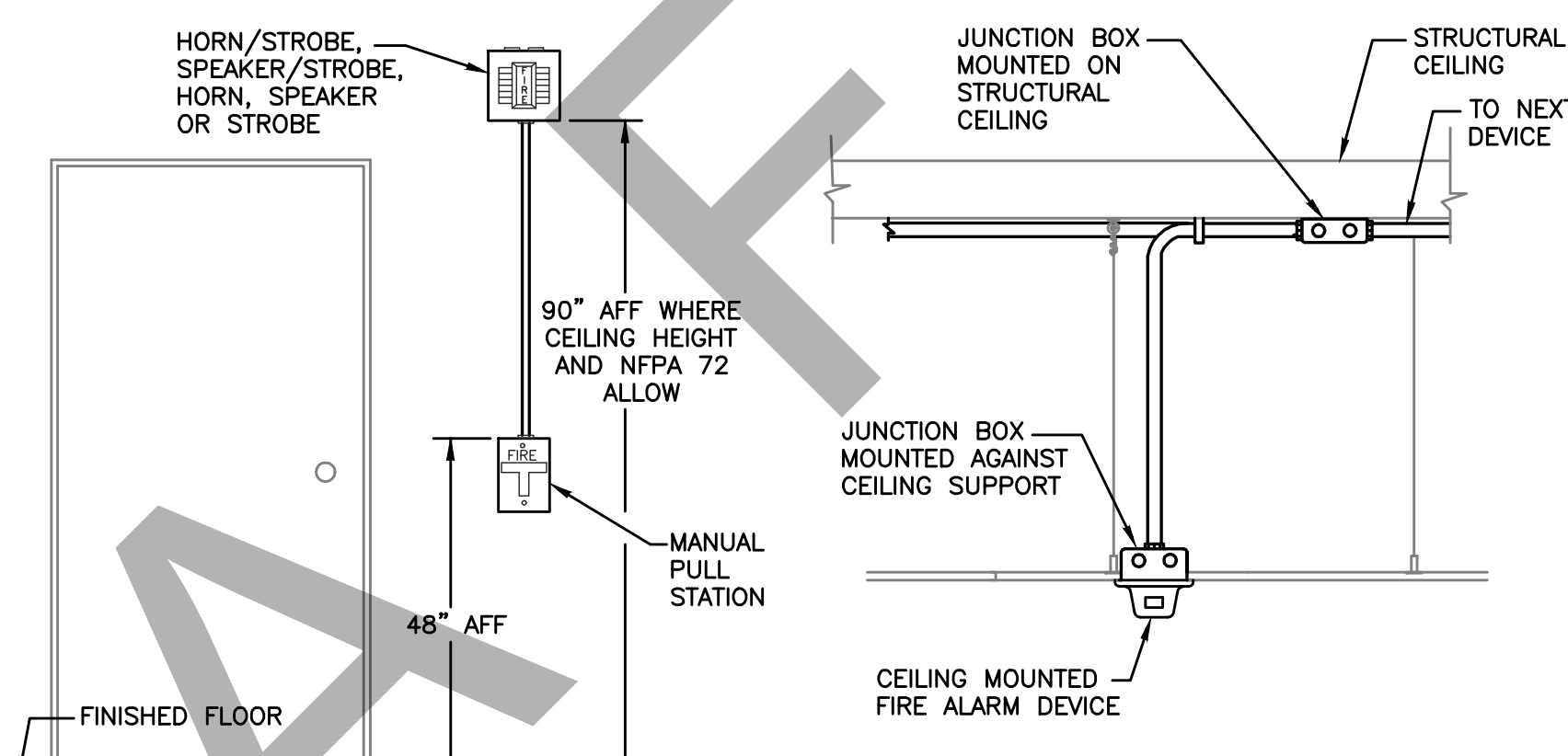
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EXTERIOR FLUSH HORN DETAIL
SCALE: N.T.S.

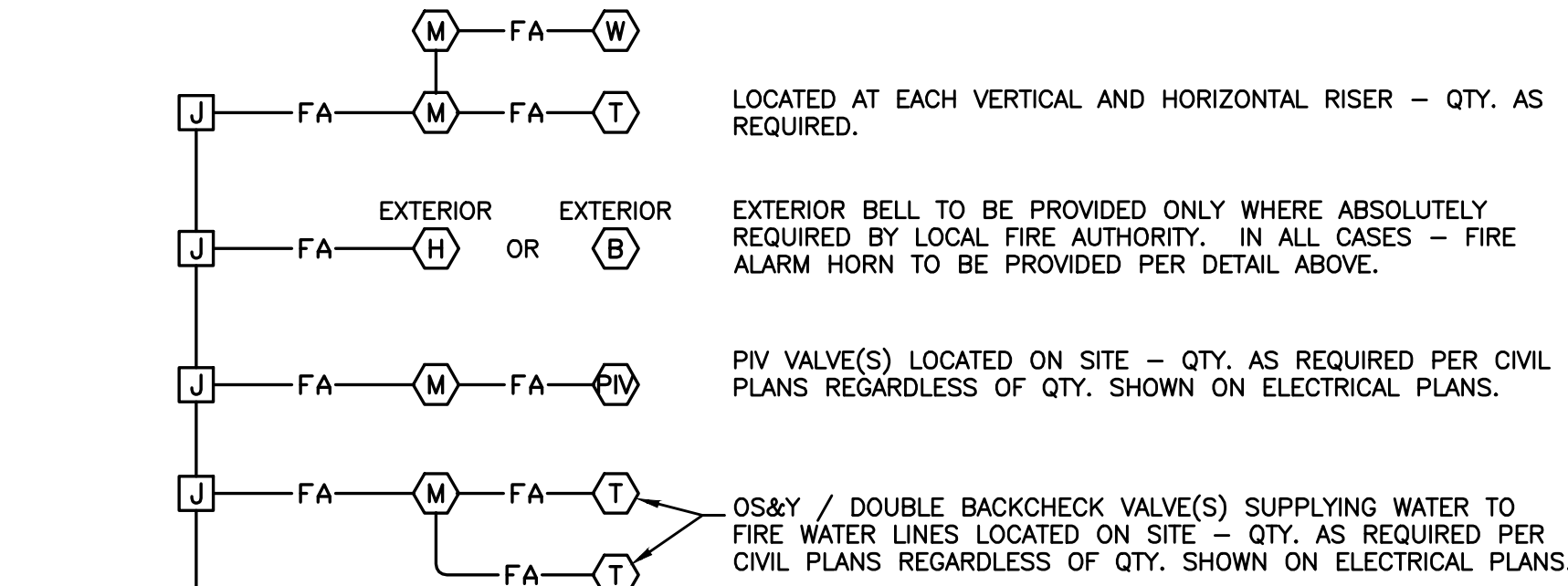


ELEVATOR SHAFT FIRE ALARM DEVICE DETAIL
SCALE: N.T.S.

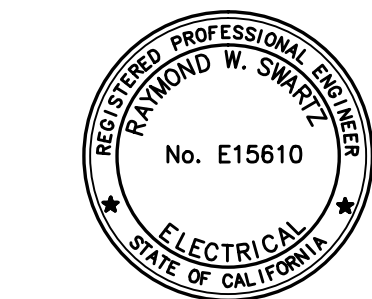
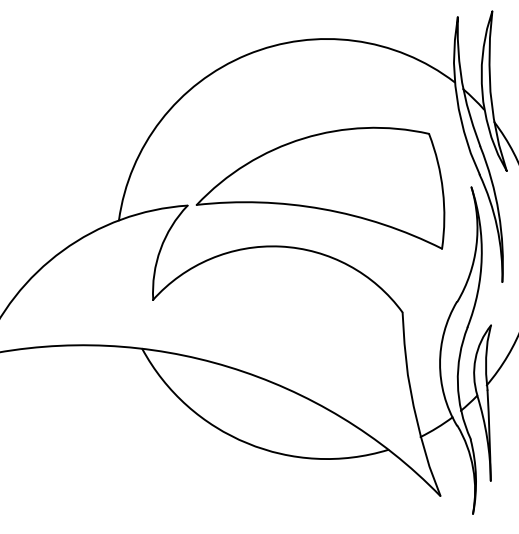


ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER - CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

DEVICE MOUNTING DETAILS
SCALE: N.T.S.



SPRINKLER SYSTEM CONNECTION SCHEMATIC
SCALE: N.T.S.



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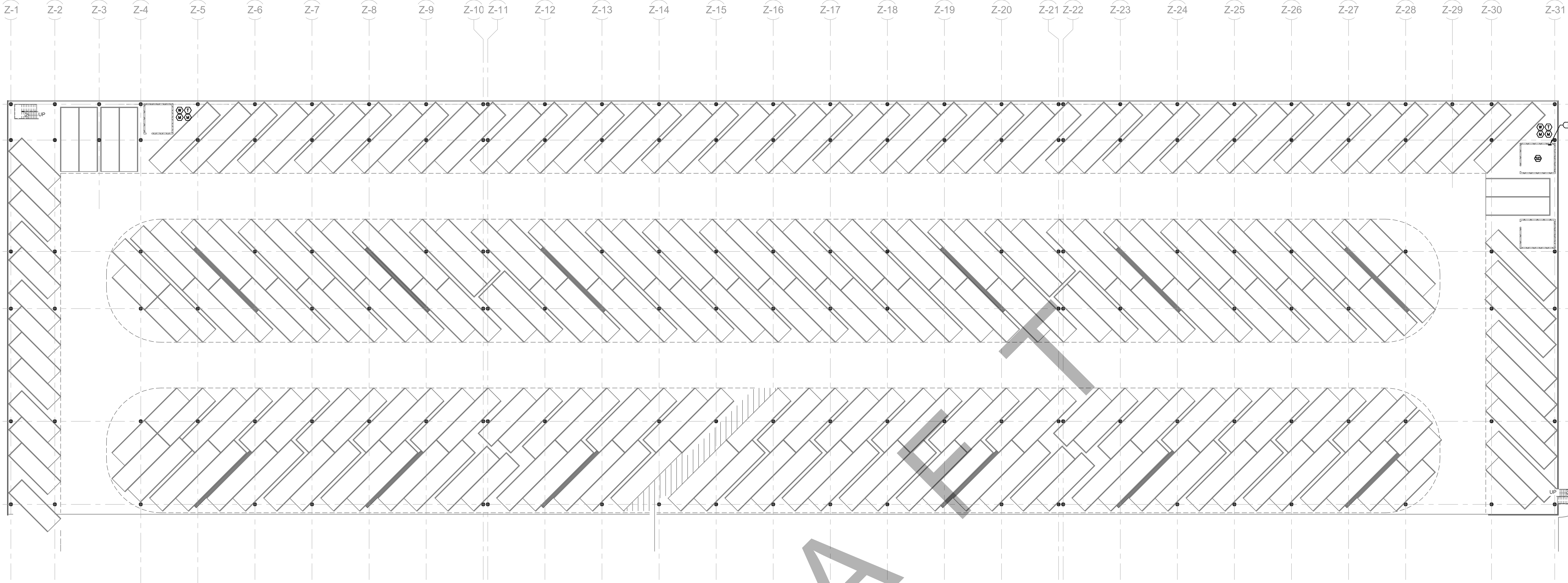
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CENTRAL MONITORING SYSTEM DETAILS

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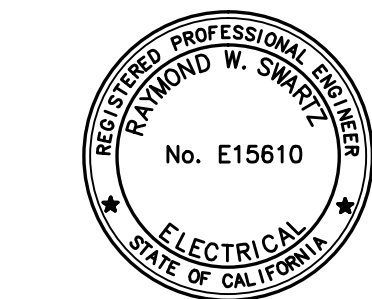


CENTRAL MONITORING PLAN - LEVEL 1
SCALE: 3/64" = 1'-0"

1

DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE



DATE:	Issue Date
PROJECT #:	Project Number
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PARKING
GARAGE LVL 1
CENTRAL
MONITORING
PLAN

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