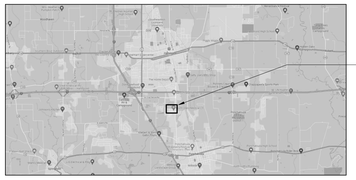
North Oaks Health Parking Garage
North Oaks Medical Center

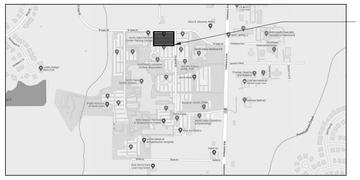
Project documents obtained from www.CentralBidding.com
09-Sep-2026 08:09:51 AM

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana



AREA MAP



VICINITY MAP

CONSTRUCTION DOCUMENTS
09.09.2026
WHLC# 26-020

DESIGN TEAM

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Structural Engineer

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Mechanical / Plumbing / Fire Protection / Electrical Engineer

THOMPSON LUKE & ASSOCIATES, LLC
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ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

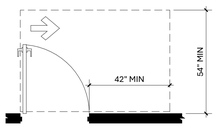
NOTE:
ALL DETAILS AND DRAWINGS IN THESE CONTRACT DOCUMENTS ILLUSTRATE BOTH ADD-ALTERNATES FOR A COMPLETE FIVE-LEVEL PARKING GARAGE.

BE ADVISED:
ALL DETAILS AND ITEMS SHOWN FOR THE TOP LEVEL ARE PART OF THE CONTRACT FOR THE TOP LEVEL AND ARE TO BE INSTALLED, REGARDLESS IF ADD-ALTERNATE NO. 1 OR NO.2 ARE ACCEPTED. THIS INCLUDES BUT ARE NOT LIMITED TO THE FOLLOWING: STAIR TERMINATIONS & ROOFS, STOREFRONT ENCLOSURES, CURTAINWALL, TRAFFIC COATING, POLE LIGHTING, BOLLARDS, ETC.

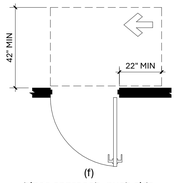
WHLC ARCHITECTURE

NORTH OAKS HEALTH PARKING GARAGE

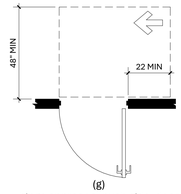
T1.0



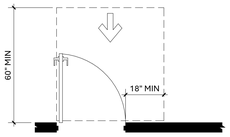
(e)
hinge approach, pull side



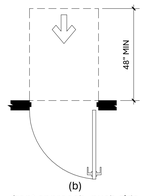
(f)
hinge approach, push side



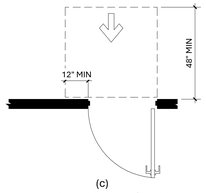
(g)
hinge approach, push side, door provided with both closer and latch



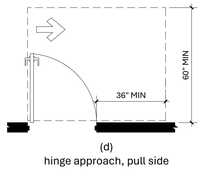
(a)
front approach, pull side



(b)
front approach, push side

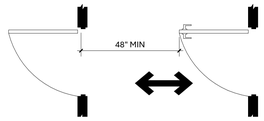


(c)
front approach, push side, door provided with both closer and latch

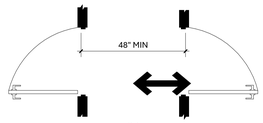


(d)
hinge approach, pull side

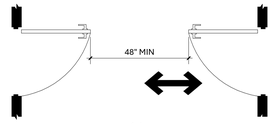
Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates



(a)



(b)



(c)

Figure 404.2.6 Doors in Series and Gates in Series

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

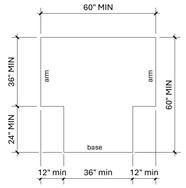


Figure 304.3.2 T-Shaped Turning Space

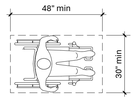
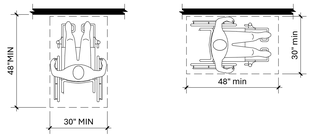


Figure 305.3 Clear Floor or Ground Space



(a)
forward

(b)
parallel

Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

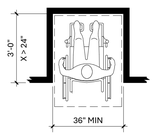


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

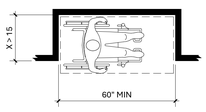
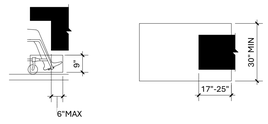


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance
306.2 Toe Clearance.
306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2
306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.
306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.
306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.
306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

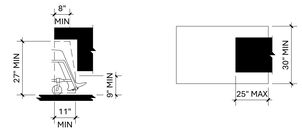


(a)
elevation

(b)
plan

Figure 306.2 Toe Clearance

306.3 Knee Clearance.
306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.
306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.
306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.
306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.
306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.



(a)
elevation

(b)
plan

Figure 306.3 Knee Clearance

307 Protruding Objects
307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

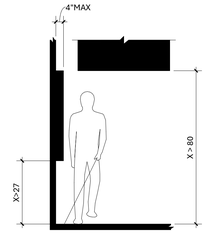
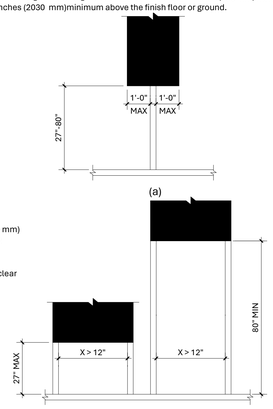


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm)minimum above the finish floor or ground.



(a)

(b)

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical ctearance shall be 80 inches (2030 mm) high minimum.
Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.
EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

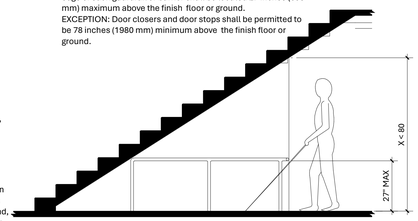


Figure 307.4 Vertical Clearance

308.2 Forward Reach.
308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shallbe 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

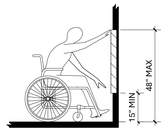
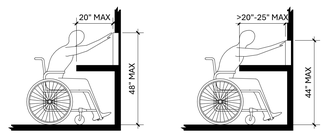


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.



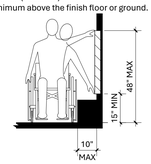
(a)

(b)

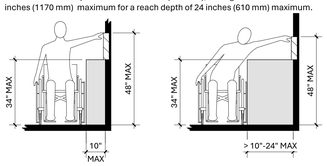
Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm)maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.



(a)

(b)

Figure 308.3.2 Obstructed High Side Reach

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.
Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.
403 Walking Surfaces
403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.
403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.
403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. Thecross slope of walking surfaces shall not be steeper than 1:48.
403.4 Changes in Level. Changes in level shall comply with 303.
403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.
EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.
403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.
EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

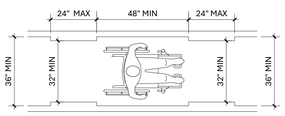
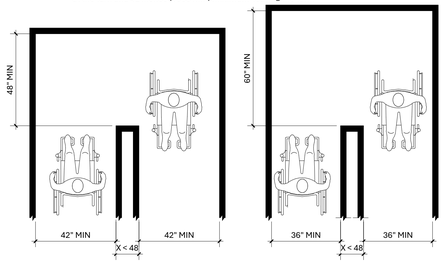


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

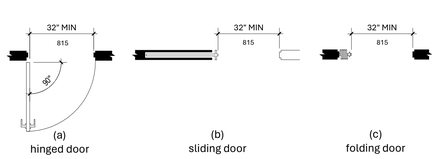


(a)
180 degree turn

(b)
180 degree turn
(Exception)

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.
404 Doors, Doorways, and Gates
404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).



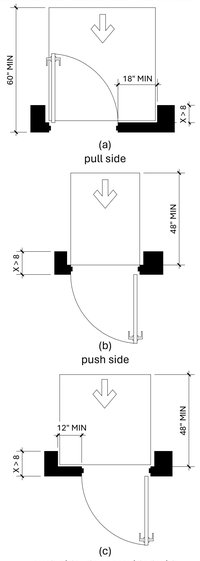
(a)
hinged door

(b)
sliding door

(c)
folding door

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.
404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.
404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.
404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.
404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.
404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:
1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.
These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.
404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.
404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.
404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter
1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).
404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.
404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.



(a)
pull side

(b)
push side

(c)
push side, door provided with both closer and latch

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

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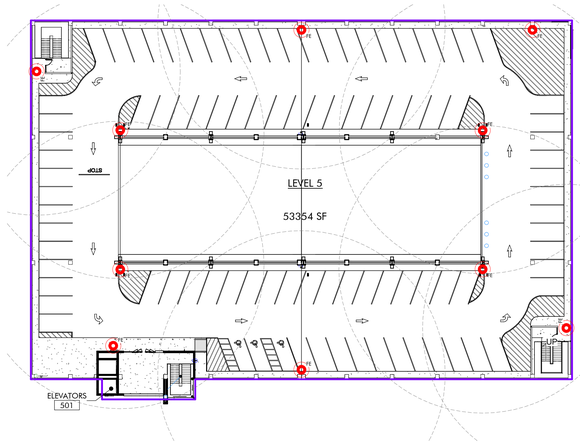
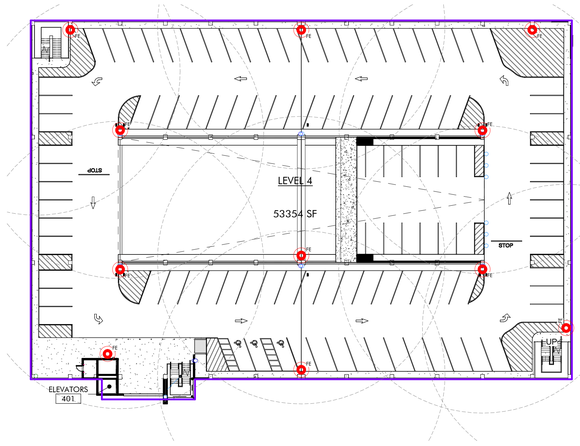
ADA TYPICAL DETAILS

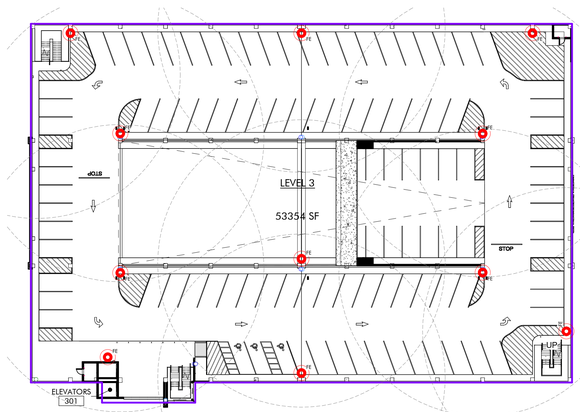
ADA.1



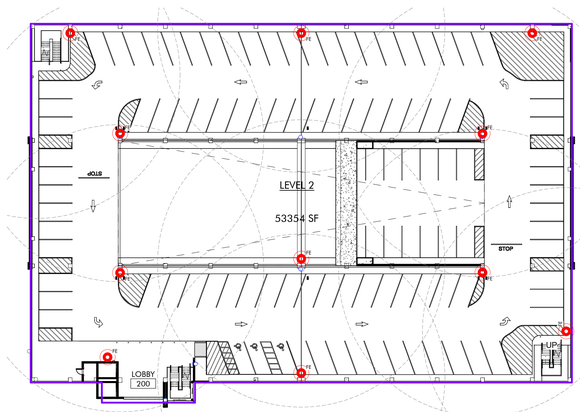
05 SCALE 1/32" = 1'-0"
LEVEL 5 (ALTERNATE #2)



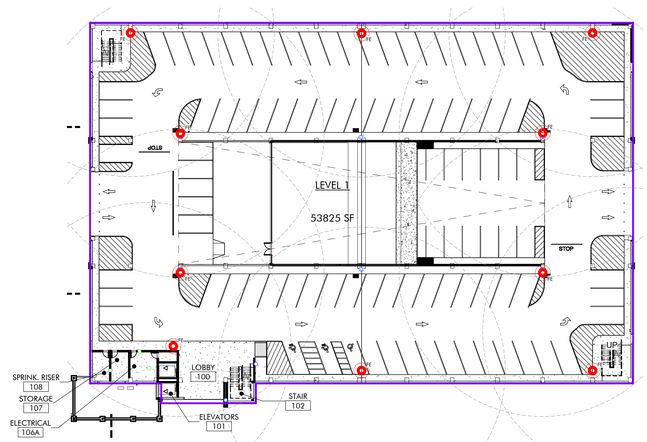
04 SCALE 1/32" = 1'-0"
LEVEL 4 (ALTERNATE #1)



03 SCALE 1/32" = 1'-0"
LEVEL 3



02 SCALE 1/32" = 1'-0"
LEVEL 2



01 SCALE 1/32" = 1'-0"
LEVEL 1

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

NOTE:
ALL DETAILS AND DRAWINGS IN THESE CONTRACT DOCUMENTS ILLUSTRATE BOTH ADD-ALTERNATES FOR A COMPLETE FIVE-LEVEL PARKING GARAGE.

BE ADVISED:
ALL DETAILS AND ITEMS SHOWN FOR THE TOP LEVEL ARE PART OF THE CONTRACT FOR THE TOP LEVEL AND ARE TO BE INSTALLED, REGARDLESS IF ADD-ALTERNATE NO.1 OR NO.2 ARE ACCEPTED. THIS INCLUDES BUT ARE NOT LIMITED TO THE FOLLOWING: STAIR TERMINATIONS & ROOFS, STOREFRONT ENCLOSURES, CURTAINWALL, TRAFFIC COATING, POLE LIGHTING, BOLLARDS, ETC.

LIFE SAFETY LEGEND

- 2 HOUR RATED PARTITION 90 MINUTE DOOR
- 1 HOUR RATED PARTITION 60 MINUTE DOOR
- 1 HOUR RATED PARTITION 45 MINUTE DOOR
- SMOKE BARRIER W/ 1 HOUR FIRE RESISTANCE RATING; 20 MINUTE DOOR
- SMOKE PARTITION (NON-RATED) TO RESIST THE PASSAGE OF SMOKE
- FIRE EXTINGUISHER (FE)
- EGRESS EXIT
- EXISTING AREAS EXCLUDED FROM THE SCOPE OF THIS PROJECT

PROJECT INFORMATION

CONSTRUCTION DESCRIPTION:
New construction of an open parking garage

BUILDING DATA:

CONSTRUCTION TYPE:
IBC 2021 Edition TYPE IIB

NFPA 101 Edition 2015 TYPE II (000)

FIRE RESISTANCE RATING REQUIREMENTS
TYPE IIA (IBC 2021 Edition)

Bearing Walls; Interior, Exterior	0 Hour
Primary Structural Frame	0 Hour
Floor Construction	0 Hour
Roof Construction	0 Hour

ADDITIONAL FEATURES:
Fully Sprinklered
No Fire Alarm

OCCUPANCY CALSSIFICATION:
New Occupancy: S-2 Low Hazard Storage

APPLICABLE BUILDING CODES:
Code Name, Louisiana Adopted Code

NFPA 101 Life Safety Code	2015 Edition
International Building Code	2021 Edition
National Building Code	2021 Edition
National Electrical Code	2020 Edition
International Plumbing Code	2021 Edition
American with Disabilities Act Accessibility Guidelines	2010 Edition

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North Oaks Health System

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LIFE SAFETY PLANS

LS1.0

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

N

NORTH OAKS DRIVE

PHYSICIANS DRIVE

HOSPITAL DRIVE

PHASE 1D

PHASE 2

PHASE 1A

PHASE 1B

PHASE 1C

PHASE 1E

INCLUDE IN PHASE 1A

DEMOLITION PHASE 1A–1E, PHASE 2

DEMOLITION TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING. REMOVAL OF ALL P.C. CONCRETE (WALKS, DRIVES, CURB, ETC.), EXISTING DRAINAGE STRUCTURES AND DRAIN PIPE, VEGETATION (TREES, GRASS, LANDSCAPING), ELECTRICAL / LIGHTING, ETC.

NOTES:

CONTRACTOR SHALL MAINTAIN ACCESS AND MINIMIZE TRAFFIC (VEHICULAR AND PEDESTRIAN DISRUPTION DURING SUGGESTED DEMOLITION PHASING.)

A. CONTRACTOR SHALL REMOVE PIPE FROM EXIST. CB AND RE–BRICK, MAKE WATER TIGHT.
B. CONTRACTOR SHALL REMOVE CB, PLUG & FILL EXISTING PIPE UNDER PHYSICIANS DRIVE w/ FLOW FILL.
C. UTILITY POLE TO REMAIN.

WHLC ARCHITECTURE

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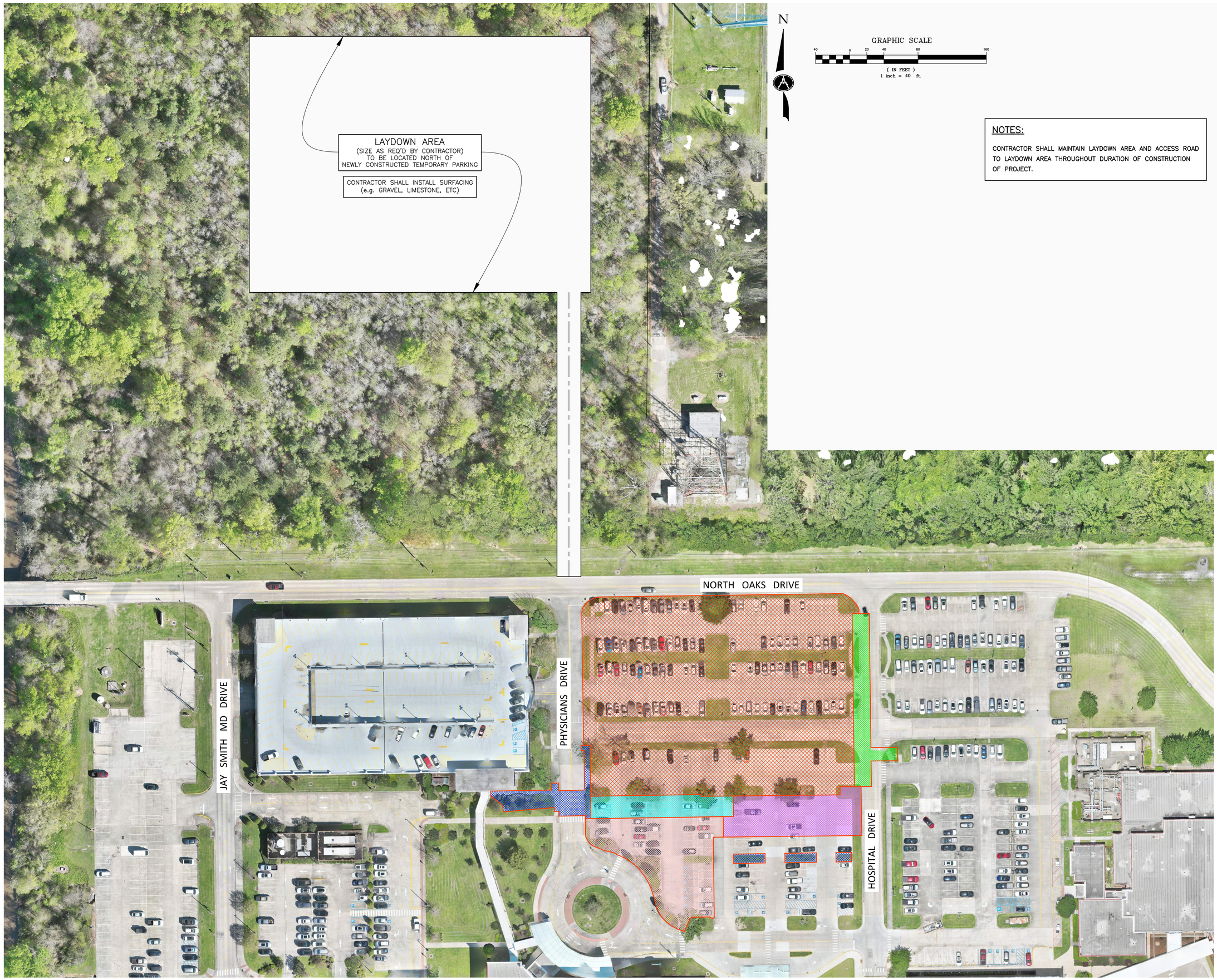
DEMO / PHASING PLAN

C1

K:\2026 LAND PROJECTS\NORTHOAKS PARKING GARAGE IMPROVEMENTS\DWG\North Oaks parking garage DESIGN- from backup.dwg, 9/1/2026 4:03:11 PM



NOTES:

CONTRACTOR SHALL MAINTAIN LAYDOWN AREA AND ACCESS ROAD TO LAYDOWN AREA THROUGHOUT DURATION OF CONSTRUCTION OF PROJECT.

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PROJECT LAYDOWN PLAN

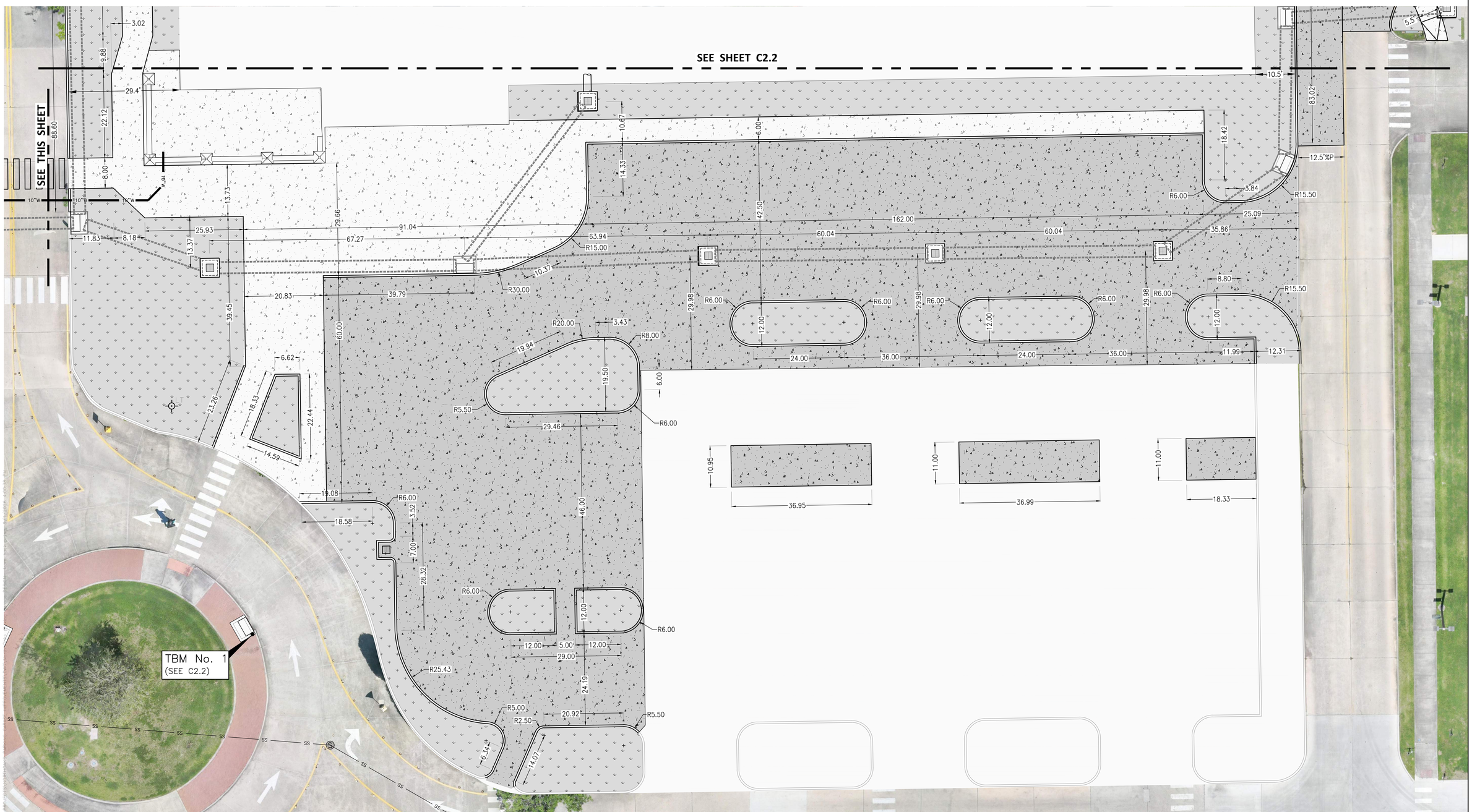
C1.1

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

N



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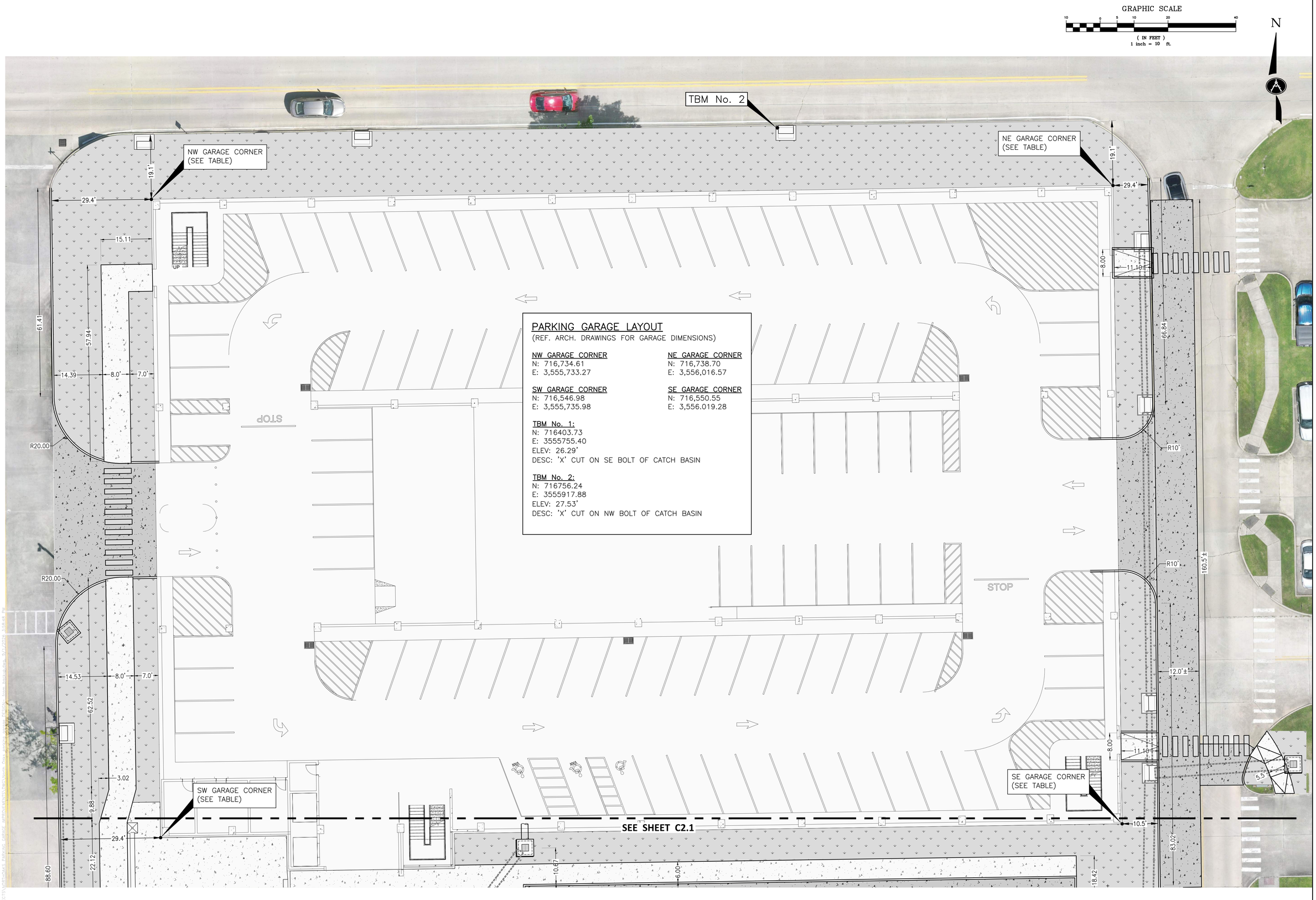
LAYOUT PLAN

C2.1



PARKING GARAGE LAYOUT

(REF. ARCH. DRAWINGS FOR GARAGE DIMENSIONS)

NW GARAGE CORNER
N: 716,734.61
E: 3,555,733.27

NE GARAGE CORNER
N: 716,738.70
E: 3,556,016.57

SW GARAGE CORNER
N: 716,546.98
E: 3,555,735.98

SE GARAGE CORNER
N: 716,550.55
E: 3,556.019.28

TBM No. 1:
N: 716403.73
E: 3555755.40
ELEV: 26.29'
DESC: 'X' CUT ON SE BOLT OF CATCH BASIN

TBM No. 2:
N: 716756.24
E: 3555917.88
ELEV: 27.53'
DESC: 'X' CUT ON NW BOLT OF CATCH BASIN

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LAYOUT PLAN

C2.2

DRAINAGE STRUCTURES

INSTALL NEW CB(TYPE II)
CB–N01
TOP: 25.77
LIP: 25.10
(E)INV: 15.86
(W)INV: 15.76

INSTALL NEW CB(TYPE II)
CB–N02
TOP: 26.60'
LIP: 25.93'
(N)INV: 19.27'
(E)INV: 16.06'
(W)INV: 15.96'

INSTALL NEW CB(TYPE II)
CB–N03
TOP 25.56'
LIP: 24.89'
(W)INV: 21.16'
(S)INV: 21.16'
INSTALL NEW 30"RCP
L= 5 LF, S=MATCH EXIST.
INSTALL PC CONC. COLLAR

INSTALL NEW CB(TYPE VIII)
CB–N04
RIM: 26.00'
(W)INV: 16.14'
(E)INV: 16.24'

INSTALL NEW CB(TYPE II)
CB–N05
TOP: 27.40'
LIP: 26.73'
(N)INV: 23.83'
(E)INV: 16.53'
(W)INV: 16.43'

INSTALL NEW CB(TYPE VIII)
CB–N06
RIM: 27.00'
INV: 24.00'

INSTALL NEW CB(TYPE VIII)
CB–N07
RIM: 26.20'
(E)INV: 16.81'
(W)INV: 16.71'

INSTALL NEW CB(TYPE VIII)
CB–N08
RIM: 26.40'
(E)INV: 17.08'
(W)INV: 16.98'

INSTALL NEW CB(TYPE VIII)
CB–N09
RIM: 26.40'
(N)INV: 17.35'
(W)INV: 17.25'

INSTALL NEW CB(TYPE II)
CB–N010
TOP: 27.45'
LIP: 26.78'
(N)INV: 17.56'
(S)INV: 17.46'

INSTALL NEW CB(TYPE VIII)
CB–N011
TOP: 27.36'
LIP: 26.69'
(N)INV: 23.35'
(E)INV: 21.70'
(S)INV: 17.66'

INSTALL NEW CB(TYPE II)
CB–N012
TOP: 27.41'
LIP: 26.74'
(N)INV: 23.50'
(S)INV: 23.40'

INSTALL NEW CB(TYPE II)
CB–N013
TOP: 27.99'
LIP: 27.32'
(N)INV: 23.86'
(S)INV: 23.76'

INSTAL NEW CB(TYPE II)
CB–N014
TOP: 28.47'
LIP: 27.80'
(S)INV: 24.00'

INSTALL NEW CB(TYPE VIII)
CB–N015
RIM: 26.46'
(W)INV: 22.5'(±)
MATCH EXIST.

INSTALL NEW CB(TYPE II)
CB–N016
RIM: 26.83'
(E)INV: 23.05'
(S)INV: 23.05'
(W)INV: 21.83'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

N

CB–N03
24"RCP L=63'
REF. MECHANICAL FOR UTILITY TIE–IN
REF. MECH. FOR DRAINAGE TIE–IN
CB–N06
24"RCP L=54' S=0.3%
2.0%
1.80%
CB–N07
36"RCP
36"RCP L=60' S=0.3%
2.2%
2.59%
2% MAX
36"RCP L=55' S=0.25%
36"RCP L=32' S=0.3%
36"RCP L=26' S=0.3%
36"RCP L=63' S=0.3%
CB–N01
CB–N02
CB–N04
CB–N05
EXIST. DI
RIM: 24.21
MODIFY TO ACCEPT 36"RCP
MAKE WATER TIGHT
EXIST. LIGHT POLE
(TO REMAIN)
TBM No. 1
(SEE C2.2)
EXIST. CB
RIM: 26.25
(E)INV: 21.75
(W)INV: 21.75
CB–N015
SEE SHEET C3.2
10"W
SS

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License No. 39059
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GRADING / DRAINAGE PLAN

C3.1

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NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

North Oaks Health System

JAY COLDON PITTMAN
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9 Sept 2026

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GRADING / DRAINAGE PLAN

C3.2

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

N

STOP

SEE SHEET C3.1

REF. MECH. FOR DRAINAGE TIE-IN

CB-N01
CB-N02
CB-N03
CB-N04
CB-N05
CB-N06
CB-N07
CB-N08
CB-N09
CB-N010
CB-N011
CB-N012
CB-N013
CB-N014
CB-N015
CB-N016

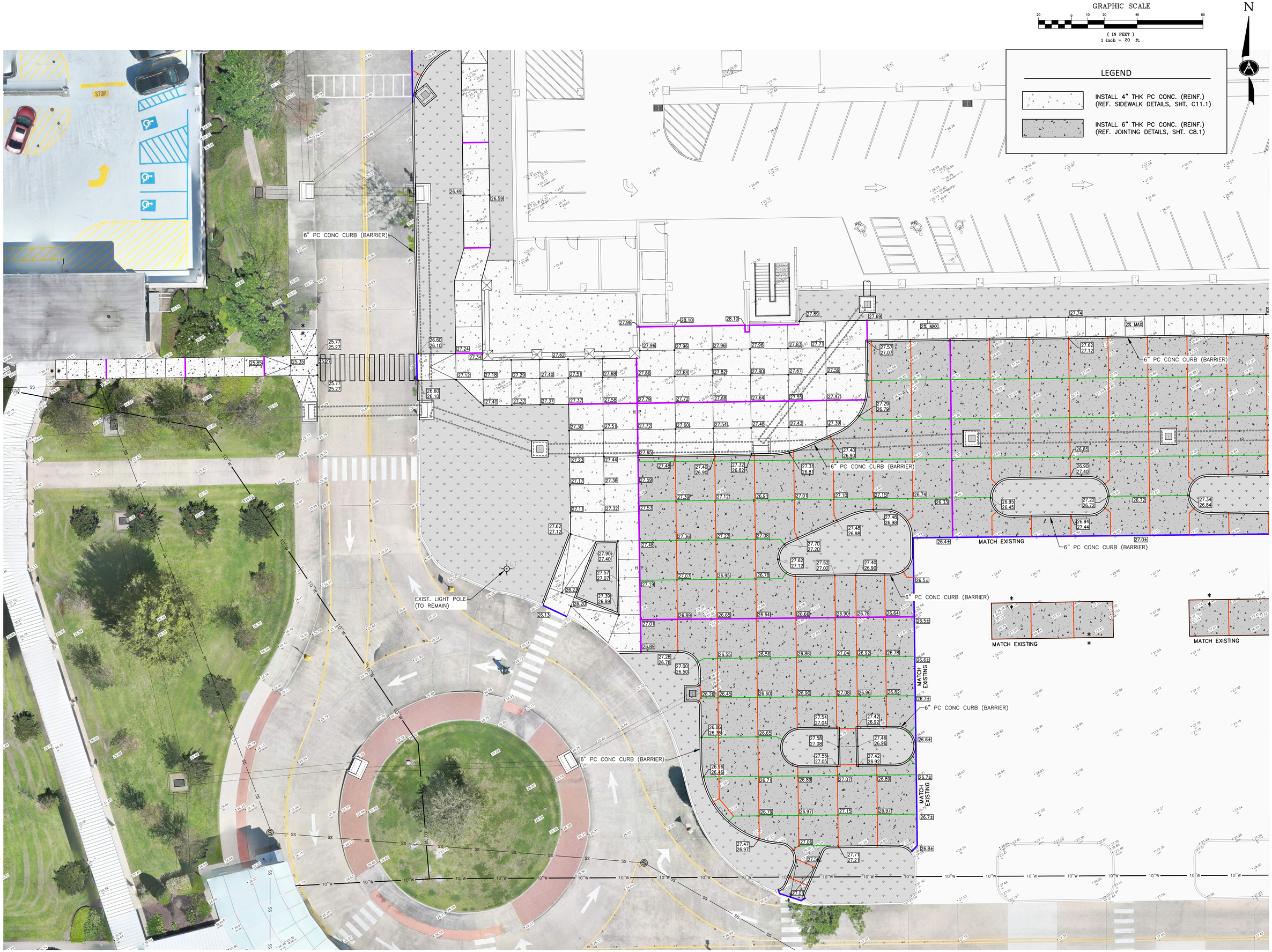
EXIST. DI
RIM: 28.83
(E)INV: 23.05
(S)INV: 23.05
(W)INV: 23.05

18"RCP L=84' S=0.3%
18"RCP L=44' S=0.3%
18"RCP L=16' S=0.3%
36"RCP L=24' S=0.3%
36"RCP L=39'
36"RCP L=56' S=0.3%
36"RCP L=60' S=0.3%
36"RCP L=63' S=0.3%

DRAINAGE STRUCTURES

INSTALL NEW CB(TYPE II) CB-N01 TOP: 25.77 LIP: 25.10 (E)INV:15.86 (W)INV:15.76	INSTALL NEW CB(TYPE II) CB-N02 TOP: 26.60' LIP: 25.93' (N)INV: 19.27' (E)INV: 16.06' (W)INV: 15.96'
INSTALL NEW CB(TYPE II) CB-N03 TOP 25.56' LIP: 24.89' (W)INV:21.16' (S)INV:21.16' INSTALL NEW 30"RCP L= 5 LF, S=MATCH EXIST. INSTALL PC CONC. COLLAR	INSTALL NEW CB(TYPE VIII) CB-N04 RIM: 26.00' (W)INV: 16.14' (E)INV: 16.24'
INSTALL NEW CB(TYPE II) CB-N05 TOP: 27.40' LIP: 26.73' (N)INV: 23.83' (E)INV: 16.53' (W)INV: 16.43'	INSTALL NEW CB(TYPE VIII) CB-N06 RIM: 27.00' INV: 24.00'
INSTALL NEW CB(TYPE VIII) CB-N07 RIM: 26.20' (E)INV: 16.81' (W)INV: 16.71'	INSTALL NEW CB(TYPE VIII) CB-N08 RIM: 26.40' (E)INV: 17.08' (W)INV: 16.98'
INSTALL NEW CB(TYPE VIII) CB-N09 RIM: 26.40' (N)INV: 17.35' (W)INV: 17.25'	INSTALL NEW CB(TYPE II) CB-N010 TOP: 27.45' LIP: 26.78' (N)INV: 17.56' (S)INV: 17.46'
INSTALL NEW CB(TYPE VIII) CB-N011 TOP: 27.36' LIP: 26.69' (N)INV: 23.35' (E)INV: 21.70' (S)INV: 17.66'	INSTALL NEW CB(TYPE II) CB-N012 TOP: 27.41' LIP: 26.74' (N)INV: 23.50' (S)INV: 23.40'
INSTALL NEW CB(TYPE II) CB-N013 TOP: 27.99' LIP: 27.32' (N)INV: 23.86' (S)INV: 23.76'	INSTALL NEW CB(TYPE II) CB-N014 TOP: 28.47' LIP: 27.80' (S)INV: 24.00'
INSTALL NEW CB(TYPE VIII) CB-N015 RIM: 26.46' (W)INV: 22.5'(±) MATCH EXIST.	INSTALL NEW CB(TYPE II) CB-N016 RIM: 26.83' (E)INV: 23.05' (S)INV: 23.05' (W)INV: 21.83'

K:\2026 LAND PROJECTS\NORTHOAKS PARKING GARAGE IMPROVEMENTS\DWG\North Oaks parking garage DESIGN- from backup.dwg, 9/1/2026 3:56:16 PM



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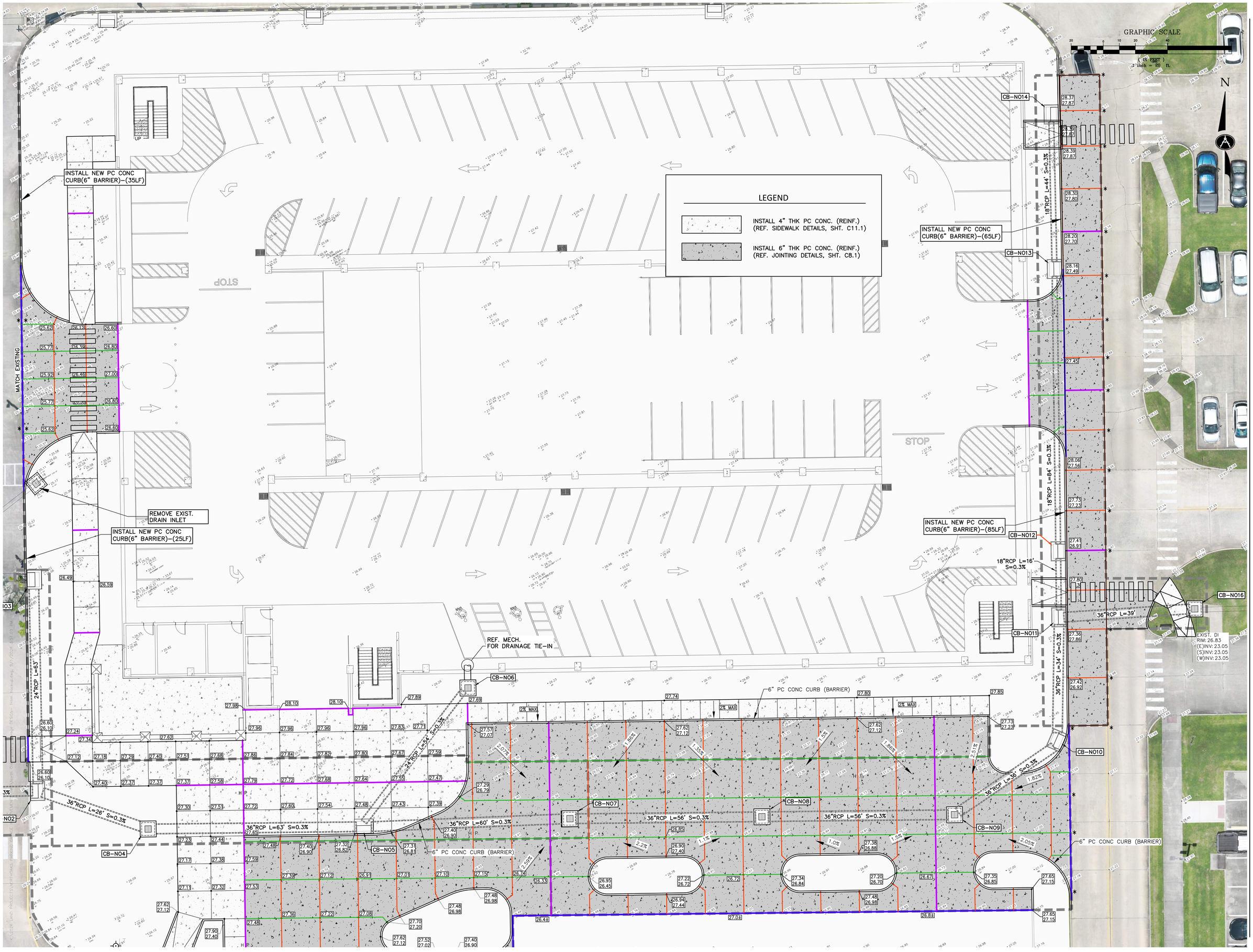
PAVING PLAN

C4.1



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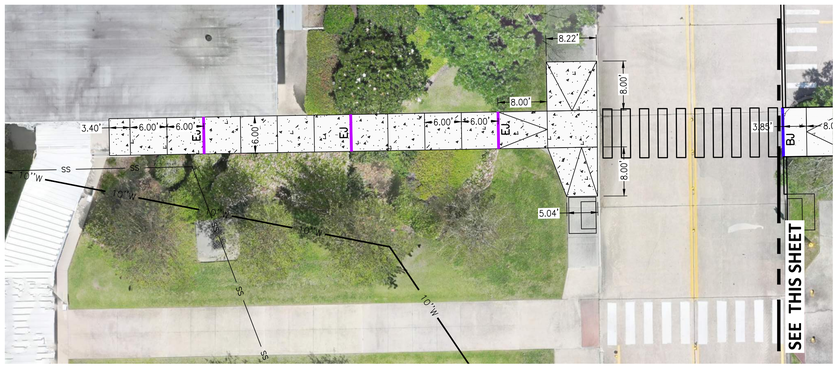
PAVING PLAN

C4.2



GRAPHIC SCALE

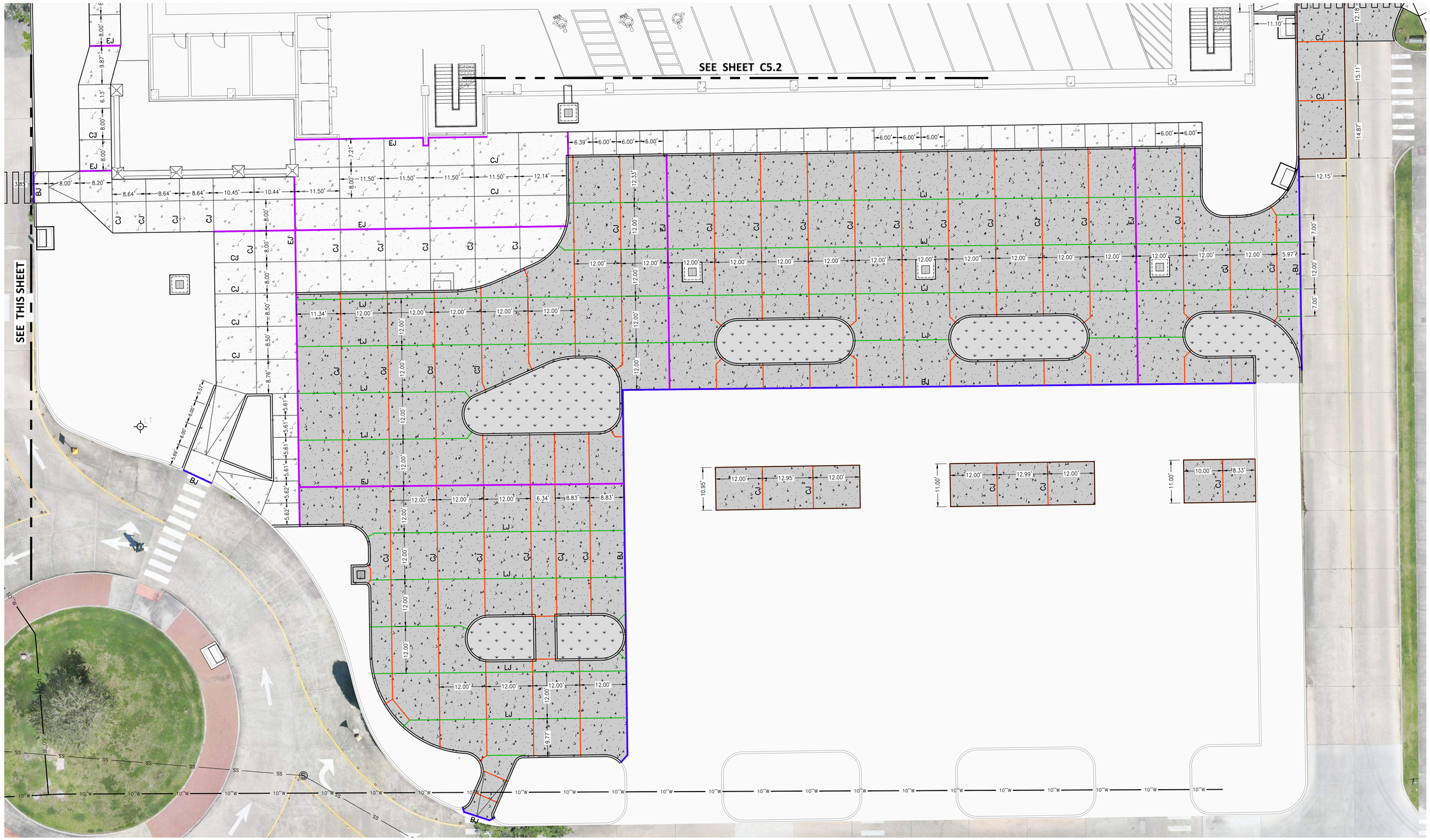
(IN FEET)
1 inch = 10 ft.

N

LEGEND

INSTALL 4" THK PC CONC. (REINF.)
(REF. SIDEWALK DETAILS, SHT. C11.1)

INSTALL 6" THK PC CONC. (REINF.)
(REF. JOINTING DETAILS, SHT. C8.1)



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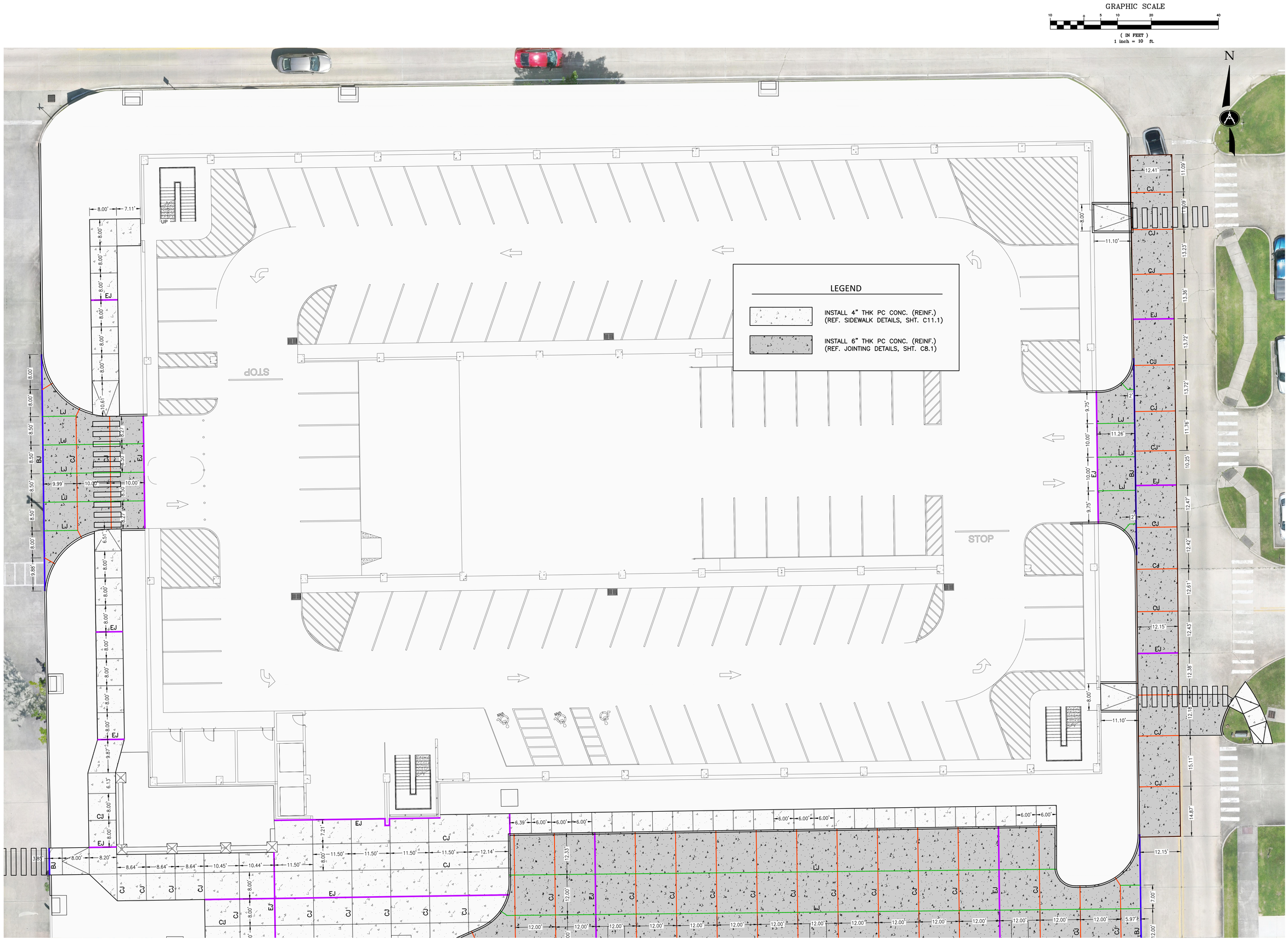
JOINTING PLAN

C5.1



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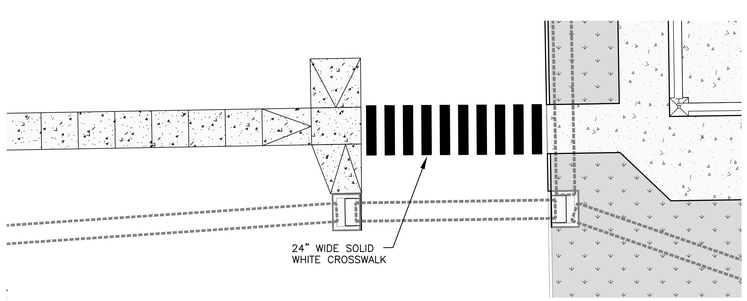
JOINTING PLAN

C5.2



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

N

24" WIDE SOLID
WHITE CROSSWALK

4" WIDE SOLID
WHITE STRIPING

24" WIDE SOLID
WHITE STOP BAR

WHITE PAVEMENT
DIRECTIONAL ARROWS

INSTALL H.C.
PARKING BOLLARD

4" WIDE SOLID
BLUE HC STRIPING

HC PAVEMENT
MARKING

INSTALL H.C.
PARKING BOLLARD

INSTALL HC SIGN(TYP)
(REF. DETAILS SHT. C8.1)

4" WIDE SOLID
BLUE HC STRIPING

INSTALL H.C.
PARKING BOLLARD

HC PAVEMENT
MARKING

24" WIDE SOLID
WHITE CROSSWALK

24" WIDE SOLID
WHITE STOP BAR

4" WIDE SOLID
WHITE STRIPING

4" WIDE SOLID
WHITE STRIPING

4" WIDE SOLID
WHITE STRIPING

SS SS SS SS SS SS SS SS SS SS

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STRIPING /
SIGNAGE PLAN

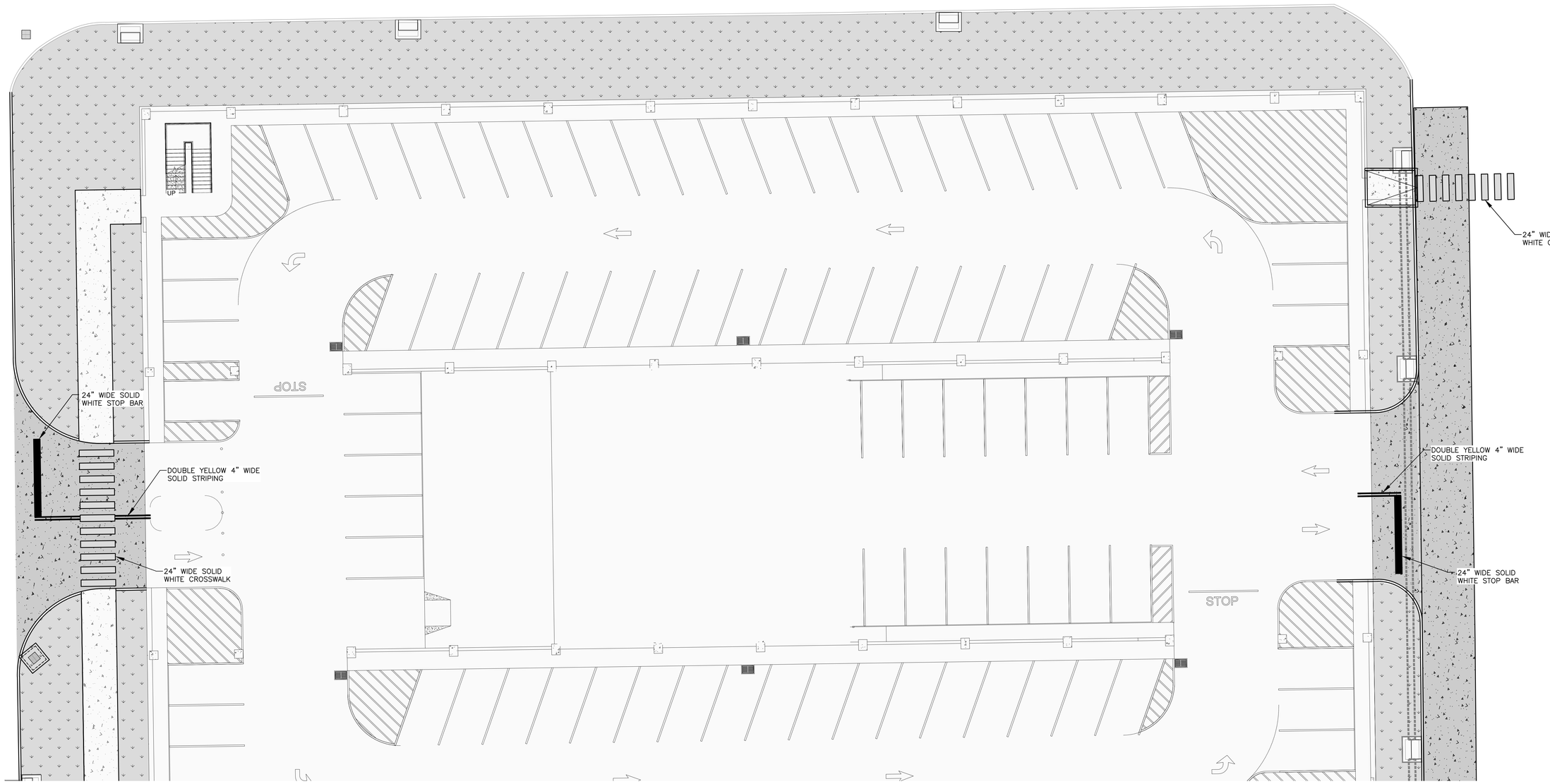
C6.1

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

N



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STRIPING / SIGNAGE PLAN

C6.2

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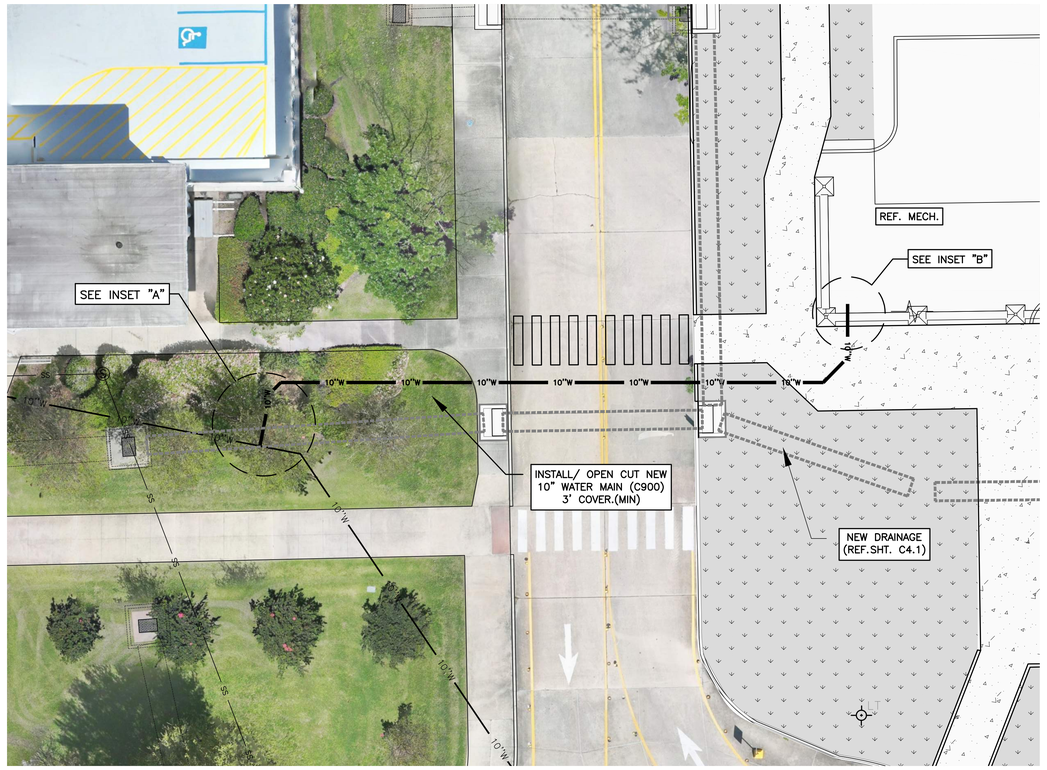
GRAPHIC SCALE

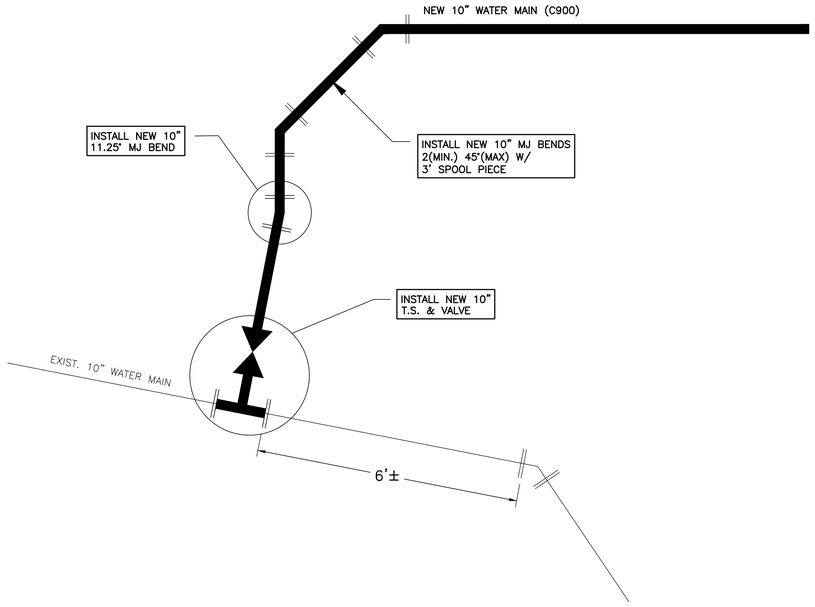
10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

N

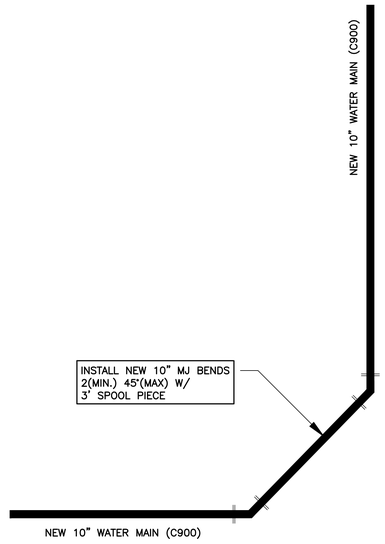


ENLARGED UTILITY (WATER) PLAN



INSET "A"

N.T.S.



INSET "B"

N.T.S.

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UTILITY PLAN

C7.1

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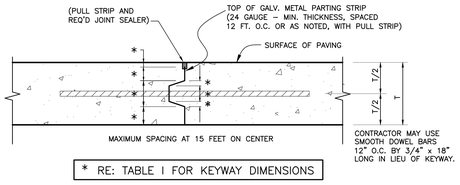
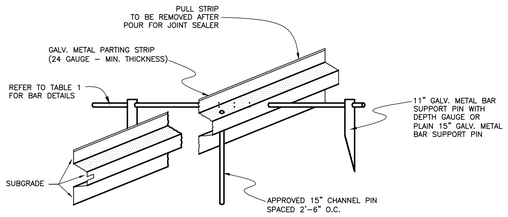


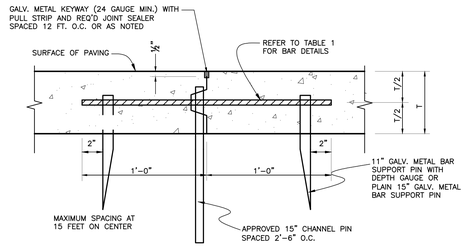
A CONTRACTION JOINT (KEYWAY)

N.T.S.



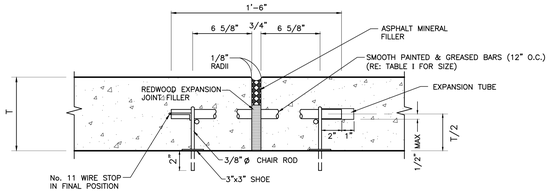
A1 CONTRACTION JOINT (OBLIQUE VIEW)

N.T.S.



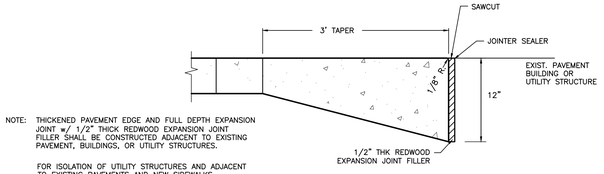
A2 LONGITUDINAL CONTRACTION JOINT

N.T.S.



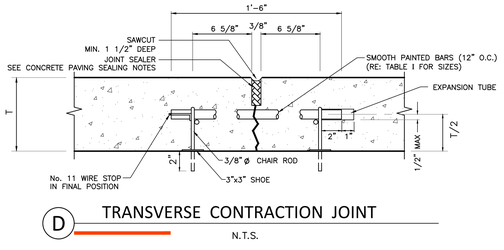
B EXPANSION JOINT

N.T.S.



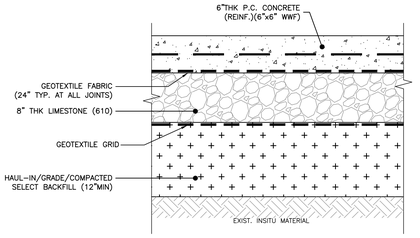
C BUTT JOINT DETAIL

N.T.S.



D TRANSVERSE CONTRACTION JOINT

N.T.S.



E P.C. CONCRETE PAVEMENT DETAIL

N.T.S.

GENERAL NOTES FOR CONCRETE PAVEMENT

A. ALL JOINTS TO BE 12' O.C., EXCEPT AS NOTED.

B. JOINTS LABELED E.J. ARE EXPANSION JOINTS, L.J. ARE LONGITUDINAL JOINTS, AND ALL OTHER JOINTS ARE CONTRACTION JOINTS.

C. CONTRACTOR SHALL FOLLOW INSTRUCTIONS IN SOILS REPORT, HOWEVER AS A MINIMUM CONCRETE PARKING LOT SHALL BE 6" THICK, P.S.I. SHALL BE 4000 AT 28 DAYS, BASE SHALL BE GRANULAR MATERIAL 1'-0" THICK MIN. COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY UNIT WEIGHT ATTAINED IN THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).

D. CONTRACTOR SHALL "BOX OUT" AROUND ALL STRUCTURES WITH 1/2" PRE-MOLDED EXPANSION MATERIAL.

E. ALL CONCRETE IS TO BE VIBRATED IN ACCORDANCE WITH SECTION LA. D.O.T.D. STANDARD SPEC. (LATEST EDITION)

F. CONTRACTOR SHALL REFER TO LA. D.O.T.D. SPECS. FOR ALL REQUIREMENTS FOR CONCRETE PAVEMENT NOT SPECIFICALLY COVERED ELSEWHERE.

G. ALL CURBS SHALL HAVE JOINTS THRU CURB AND MATCHING JOINTS IN PAVEMENT SLABS.

H. THE CONTRACTOR SHALL REPAIR ANY RANDOM CRACKING, CHIPPING, SPALLING, OR TEARING OF THE CONCRETE AT NO DIRECT PAY BY APPROVED METHODS TO THE SATISFACTION OF THE ENGINEER.

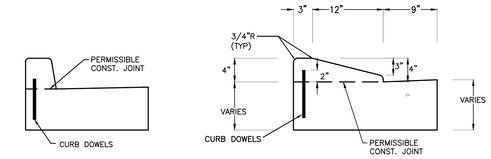
I. CONCRETE MIX FOR CURBING AND PAVEMENT SHALL BE AS FOLLOWS:
1. LA. D.O.T.D. TYPE B MIX
2. 5.8 SACKS OF CEMENT PER CUBIC YARD
3. 2" TO 4" SLUMP RANGE
4. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
5. THE ATTAINMENT OF A COMPRESSIVE STRENGTH OF 3,000 PSI IS DESIRABLE WITHIN THREE (3) DAYS OF THE POUR IF PAVEMENT IS TO BE USED FOR PARKING OR CONSTRUCTION OPERATIONS.

J. PRIOR TO INSTALLATION OF THE CONCRETE PAVEMENT AND ROADWAY CURBING, THE CONTRACTOR SHALL SUBMIT A CONCRETE MIX PREPARED BY A REPUTABLE TESTING LABORATORY TO THE ENGINEER FOR APPROVAL.

H. PAVEMENT SPECIFICATIONS SHOWN ARE REQUIRED MINIMUMS ONLY. CONTRACTOR IS TO REFER TO THE SOILS REPORT FOR ACTUAL REQUIRED SPECIFICATION. THE MORE STRINGENT REQUIREMENTS APPLY.

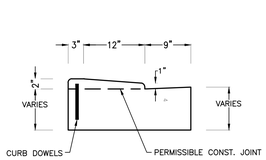
TABLE I – SCHEDULE OF DIMENSIONS

SLAB THICKNESS	SMOOTH DOWEL BARS (TRANSVERSE CONTRACTION JOINT)			DEFORMED TIE BARS (LONGITUDINAL JOINT)			KEYWAY	
"T"	SIZE (DIA.)	LENGTH	SPACING	SIZE (DIA.)	LENGTH	SPACING	A ±1/4"	B ±1/4"
4	1/2	12	18	1/2	12	24	–	–
6	3/4	14	12	1/2	24	24	2 1/2	1 1/4
8	1 1/4	18	12	1/2	24	24	2 1/2	2 1/2
10	1 1/2	18	12	1/2	24	24	2 1/2	2 1/2
12	1 1/2	18	12	5/8	30	24	3	1 1/2



BARRIER CONCRETE CURB

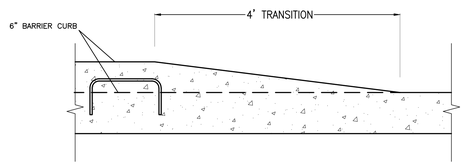
MOUNTABLE CONCRETE CURB



LOW PROFILE CONCRETE CURB

F CURB DETAILS

N.T.S.

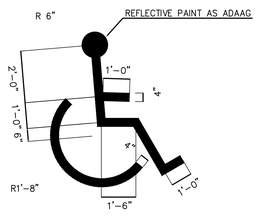


G CURB TRANSITION DETAIL

N.T.S.

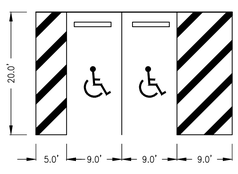
H CURB STIRRUP DETAIL

N.T.S.



I H.C. ACCESSIBLE DETAIL

N.T.S.

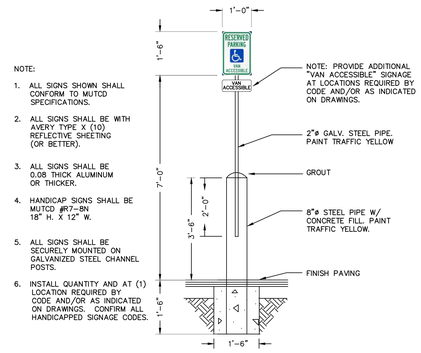


J ADA HANDICAP PARKING DETAIL

N.T.S.

NOTES:
1) THE BOTTOM OF THE SIGN SHOULD BE NO LESS THAN 72 INCHES ABOVE FINISH GRADE.
2) SIGNS SHALL BE PROPERLY CENTERED WITHIN THE PARKING SPACE.
3) THE SIGN FACE SHOULD BE LOCATED NO FARTHER THAN 6 FEET FROM THE FRONT OF EACH PARKING SPACE.
4) ALL LETTERING SERIES 'C', GREEN COLOR.
5) INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOWN WHITE ON 6"x6" BLUE FIELD WITH 1/2 RADIUS CORNERS.
6) THE VAN ACCESSIBLE SIGN SHALL BE CENTERED UNDER THE ACCESSIBLE PARKING SIGN AS SHOWN.
7) THE SIGN SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE

NOTE:
1. ALL SIGNS SHOWN SHALL CONFORM TO MUTCD SPECIFICATIONS.
2. ALL SIGNS SHALL BE WITH AVERY TYPE X (10) REFLECTIVE SHEETING (OR BETTER).
3. ALL SIGNS SHALL BE 0.08 THICK ALUMINUM OR THICKER.
4. HANDICAP SIGNS SHALL BE MUTCD #R7-8N 18" H. X 12" W.
5. ALL SIGNS SHALL BE SECURELY MOUNTED ON GALVANIZED STEEL CHANNEL POSTS.
6. INSTALL QUANTITY AND AT (1) LOCATION REQUIRED BY CODE AND/OR AS INDICATED ON DRAWINGS. CONFIRM ALL HANDICAPPED SIGNAGE CODES.



K H.C. SIGN AND POST DETAIL

N.T.S.

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JOINTING DETAILS

C8.1

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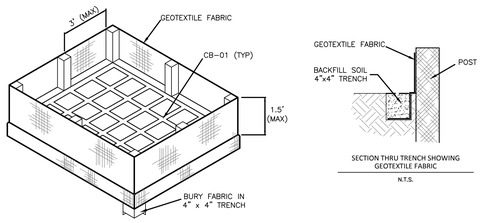


ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

(BACKFILL SOIL NOT SHOWN)

SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC

N.T.S.

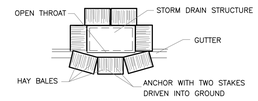
TEMPORARY INLET SILT TRAP

N.T.S.

NOTES:

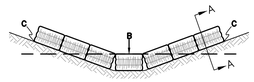
THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO SECTION 1019 (TYPE G) OF THE LA DOTD STANDARD SPECIFICATIONS.
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" x 2" OR 2" x 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY ANCHORED IN THE GROUND.



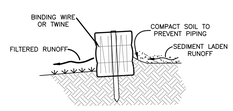
PLAN SHOWING HAY BALES

N.T.S.



ELEVATION

N.T.S.



SECTION A-A

N.T.S.

TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS, SECTION 204. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND FILL EROSION.
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES.
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
4. DO NOT USE IN LIVE STREAMS OR IN SWALES DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT.

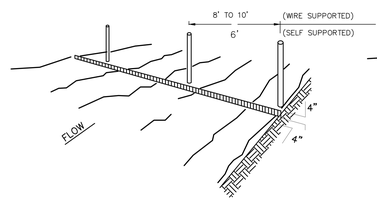
EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED BEFORE GRADING OPERATIONS AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF THE PROJECT.
2. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN SILT DEPOSITION HAS REACHED THE HALF WAY POINT OF THE FENCE HEIGHT.
3. ALL DROP INLETS, CATCH BASINS, OR PIPE INLETS SHALL BE PROTECTED AGAINST SILT TRANSPORT WITH SILT FENCES OR HAY BALES. PROPERLY INSTALLED SILT FENCE IS PREFERRED OVER HAY BALES.
4. EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTROL MEASURES SHOWN MAY NEED TO BE ADJUSTED TO FIT THE FIELD CONDITIONS. ADDITIONAL DEVISES MAY ALSO BE NECESSARY FOR ADEQUATE EROSION AND SEDIMENT CONTROL OR AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
6. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS SHEET MAY REQUIRE MODIFICATION ACCORDING TO FIELD CONDITIONS DURING CONSTRUCTION TO MINIMIZE SEDIMENTATION TRANSPORT OFFSITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND ABIDING BY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAINING AND MAINTAINING A LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES.
8. SEEDING OPERATIONS OF ALL DISTURBED AREAS SHALL COMMENCE AS SOON AS POSSIBLE UPON COMPLETION OF THE FINAL GRADING OPERATIONS, AND SHALL BE IN ACCORDANCE TO LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (SECTION 717 AND 718), 2006 EDITION, AND LATEST REVISIONS, OR AS AMENDED IN THE PROJECT SPECIFICATIONS.
9. SILT FENCING MAY BE RELOCATED AS NECESSARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
10. CONTRACTOR SHALL PERIODICALLY FLUSH SILT FROM DRAIN LINES DURING PROCESS OF CONSTRUCTION AND A FINAL FLUSH AT TIME OF FINAL ACCEPTANCE.

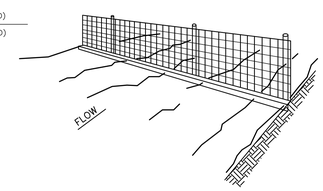
CONSTRUCTION OF TEMPORARY SILT FENCING

(WIRE SUPPORTED SILT FENCE IS SHOWN, SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACOORDING TO MANUFACTURES SPECIFICATIONS.)

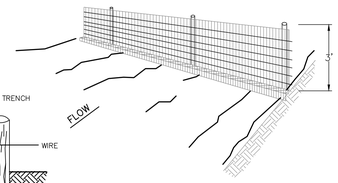
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS



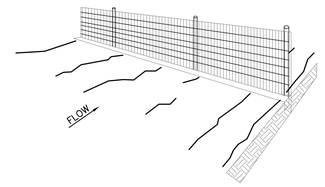
2. STAPLE WIRE FENCE TO THE POSTS

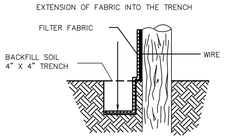


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.

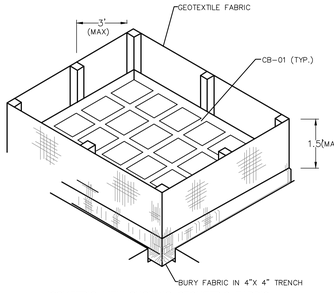


4. BACKFILL AND COMPACT EXCAVATED SOIL.





REQUIRED SILT FENCING AROUND PROPERTY



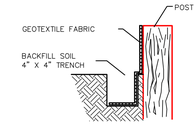
ISOMETRIC VIEW SHOWING GEOMETRIC FABRIC

(BACKFILL SOIL NOT SHOWN)

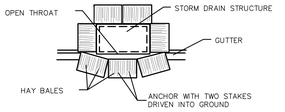
NOTES:

The temporary drop inlet silt trap is to be used for where the storm drain is functional before the area is stabilized. The trap can be either geotextile fabric or hay bales.

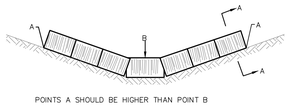
1. The geotextile fabric shall conform to Section 1019 (Type G) of the LA DOTD Standard Specs.
2. Wooden stakes supporting the fabric shall be 2" x 2"or 2" x 4" with a minimum length of 3 feet.The stakes shall be spaced around the inlet at a maximum spacing of 3 feet.
3. The height of the fabric above the inlet shall be to 1.5' and the bottom of the fabric shall be buried in a trench approximately 4" wide by 4" wide by 4" deep. The fabric shall be stapled to the post with 1/2" staples.
4. The trap should be inspected regularly and after each storm. The sediment should be removed and make sure each stake is firmly in the ground.



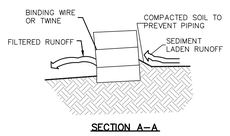
SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



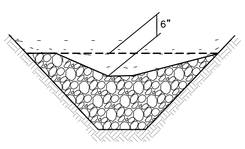
PLAN SHOWING HAY BALES



ELEVATION



SECTION A-A



TEMPORARY SEDIMENT CHECK DAM (STONE)

TEMPORARY SEDIMENT CHECK DAM (HAY)

REQ'D. HAY BALES & SILT FENCING AROUND DRAINAGE STRUCTURES

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EROSION CONTROL DETAILS

C9.1

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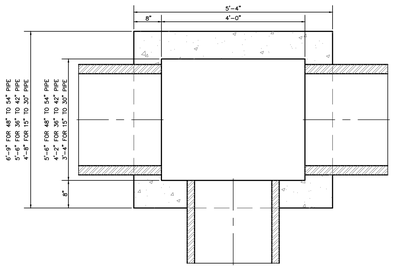
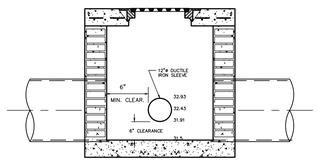


A TOP SECTIONAL VIEW (TYPE II C.B.)
N.T.S.



E CONFLICT BOX
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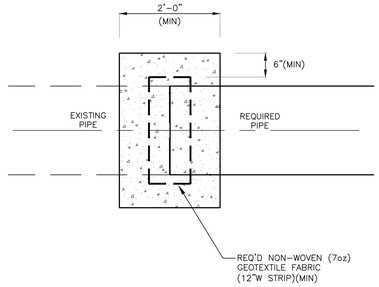
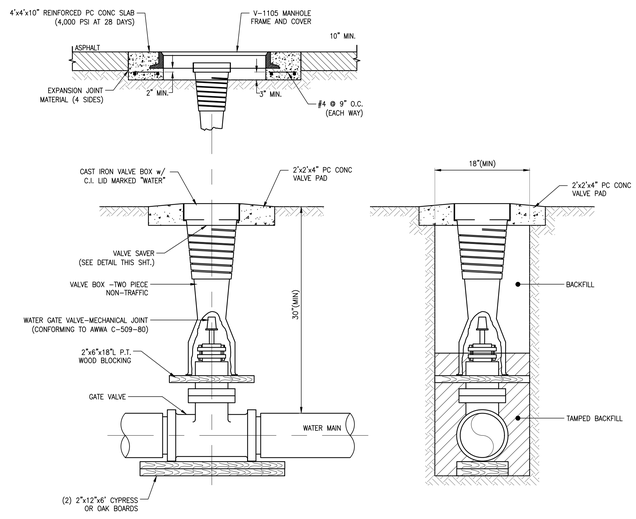


I CONCRETE COLLAR DETAIL
N.T.S.



K VALVE BOX DETAIL
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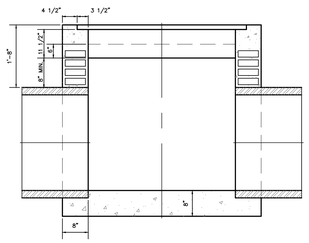

B REAR SECTIONAL VIEW (TYPE II C.B.)
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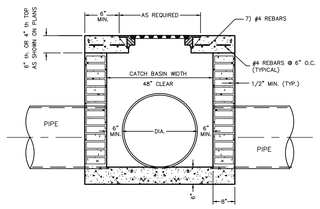
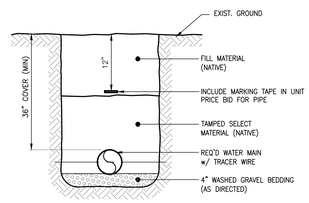


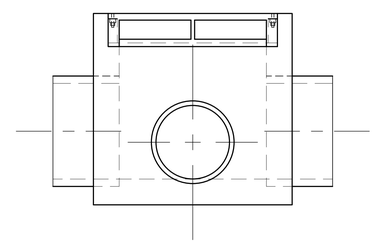
F CATCH BASIN DETAIL
N.T.S.
(TYPES III, IV, V, VI VII, VIII, IX, & X)



TYPICAL TRENCH BEDDING AND BACKFILL REQUIREMENTS FOR WATER PIPE
J N.T.S.

Model Number		
Designation	Equal to East Jordan Ironworks, Inc.	Remarks
Type I	V-4302-1	Side Inlet
Type II	V-4311-1	Side Inlet (f. SSI N.O. 1)
Type III	V-4410-1	Formerly VFG 24x30 Lawn grate
Type IV	V-5763	Formerly VFG 24 x 30
Type V	V-5766	Formerly VFG 24 x 36
Type VI	V-4862 galv.	f. RCB-3 Mod.—28-1/4 x 40 galv. Reticuline
Type VII	V-5626-1	Formerly VRFG 24x24
Type VIII	V-5726	Formerly VFG 24 x24
Type IX	V-5752	Formerly VFG 18x24
Type X	V-5736	Formerly VFG 36x36
Type Y	V-5718	Formerly VFG 18x18
Type S	V-1810-4	Solid 24" cover; paid as Type VIII substitute
Junct. Box	V-2810-A	Solid 32" cover; paid as Type VI substitute

L CATCH BASIN DESIGNATIONS
N.T.S.



G SIDE INLET DETAIL (TYPE II)
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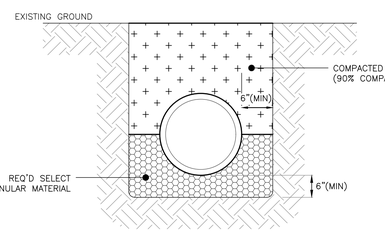

D BEDDING DETAIL
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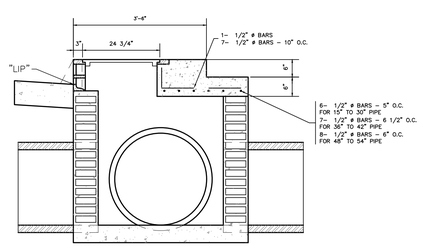
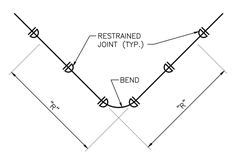


H SIDE SECTIONAL VIEW (TYPE II C.B.)
N.T.S.



PIPE DIAMETER	"R" FOR 11 1/4° BEND	"R" FOR 22 1/2° BEND	"R" FOR 45° BEND	"R" FOR 90° BEND	"R" FOR TEE
4"	3	9	18	42	42
6"	4	12	24	59	59
8"	5	15	33	77	77
10"	6	13	26	62	62
12"	7	21	45	107	107
14"	8	16	34	81	81
16"	9	18	38	90	90
18"	10	20	42	100	100
20"	11	22	46	109	109
24"	13	26	53	127	127
30"	15	30	63	151	151
36"	17	35	73	174	174
42"	20	39	81	195	195
48"	21	43	89	214	214
54"	23	46	97	232	232

NOTES:
1. RESTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS. FITTINGS, VALVES.
2. THE LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND SHALL BE NOT LESS THAN THE "R" DISTANCES GIVEN ABOVE.
3. THE FIRST JOINT OF THE PIPE BEYOND THE DISTANCE "R" ESTABLISHED ABOVE SHALL BE RESTRAINED ALONG WITH ALL JOINTS WITHIN THE DISTANCE "R".
4. INCREASE "R" DISTANCE BY A FACTOR OF 1.5 WHEN EITHER PVC OR POLYETHYLENE WRAPPED DUCTILE IRON PIPE IS USED.
5. INCLUDE JOINT RESTRAINTS IN THE APPROPRIATE BID ITEM

M RESTRAINED JOINT DETAIL
N.T.S.

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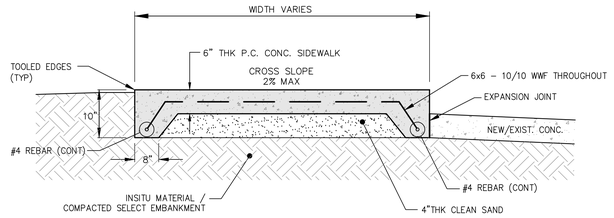
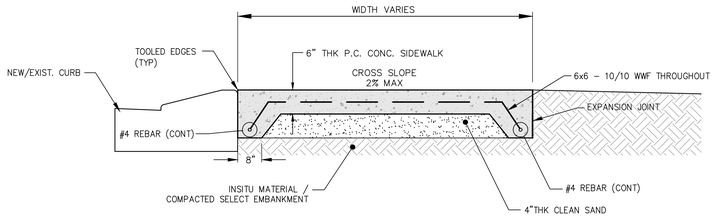
DRAINAGE DETAILS

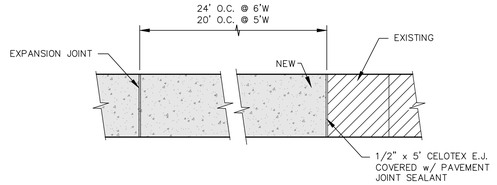
C10.1





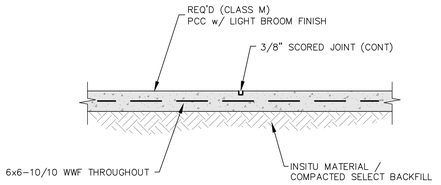
NOTE:
1. DUMMY (TOOLED) JOINT @ 5' O.C. –(5' WIDE SIDEWALK)
   EXPANSION JOINT @ 20' O.C.
2. DUMMY (TOOLED) JOINT @ 6' O.C. –(6' WIDE SIDEWALK)
   EXPANSION JOINT @ 24' O.C.
3. LIGHT BROOM FINISH

A TYPICAL SIDEWALK SECTION
N.T.S.

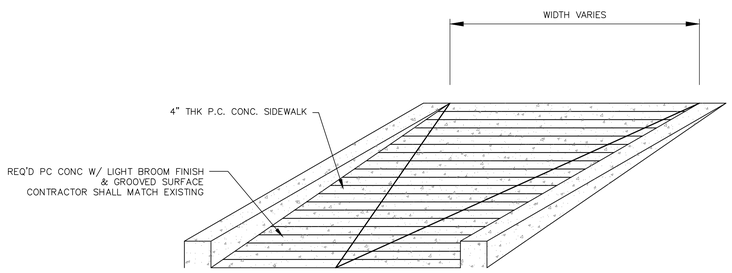


NOTE:
1. DUMMY (TOOLED) JOINT @ 5' O.C. –(5' WIDE SIDEWALK)
   EXPANSION JOINT @ 20' O.C.
2. DUMMY (TOOLED) JOINT @ 6' O.C. –(6' WIDE SIDEWALK)
   EXPANSION JOINT @ 24' O.C.
3. LIGHT BROOM FINISH

B JOINT LAYOUT DETAIL
N.T.S.



C CONTROL (DUMMY) JOINT
(LONGITUDINAL SECTION)
N.T.S.



D TYPICAL RAMP DETAIL
N.T.S.

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STANDARD DETAILS

C11.1

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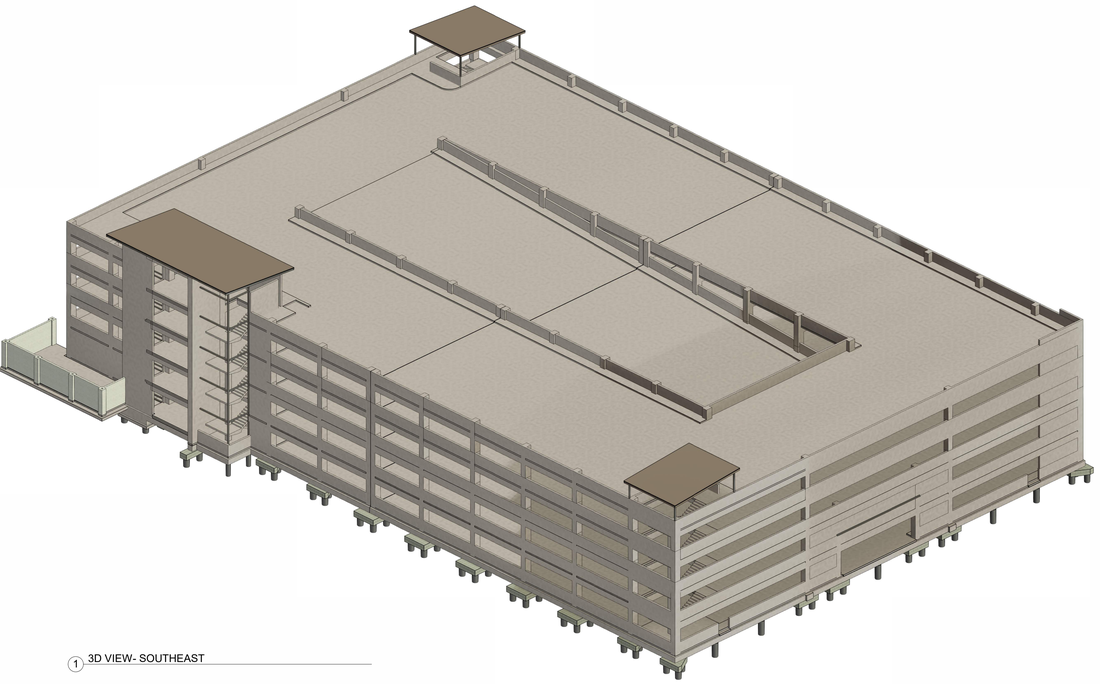
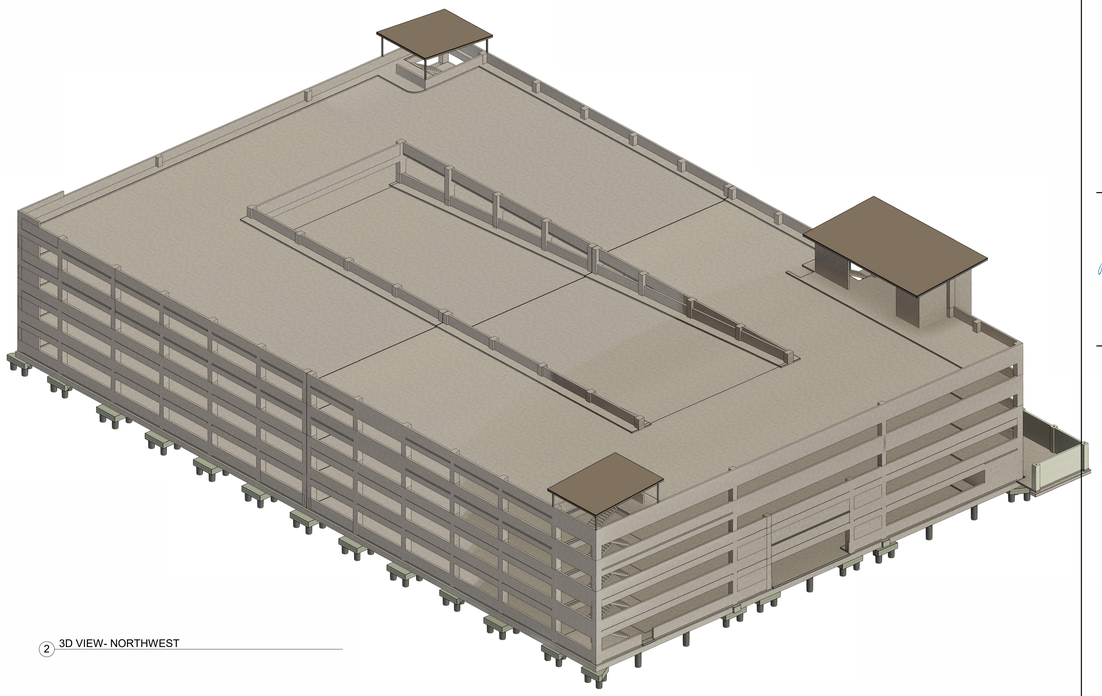


1 3D VIEW- SOUTHEAST



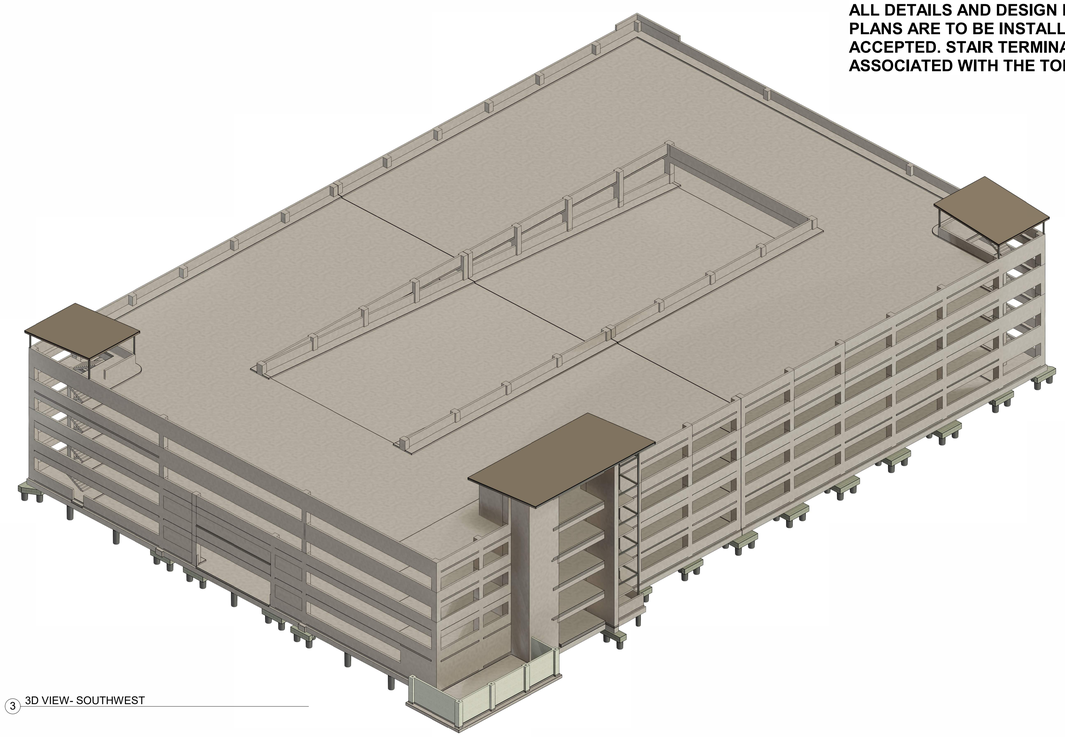
2 3D VIEW- NORTHWEST

ALTERNATE NOTE:

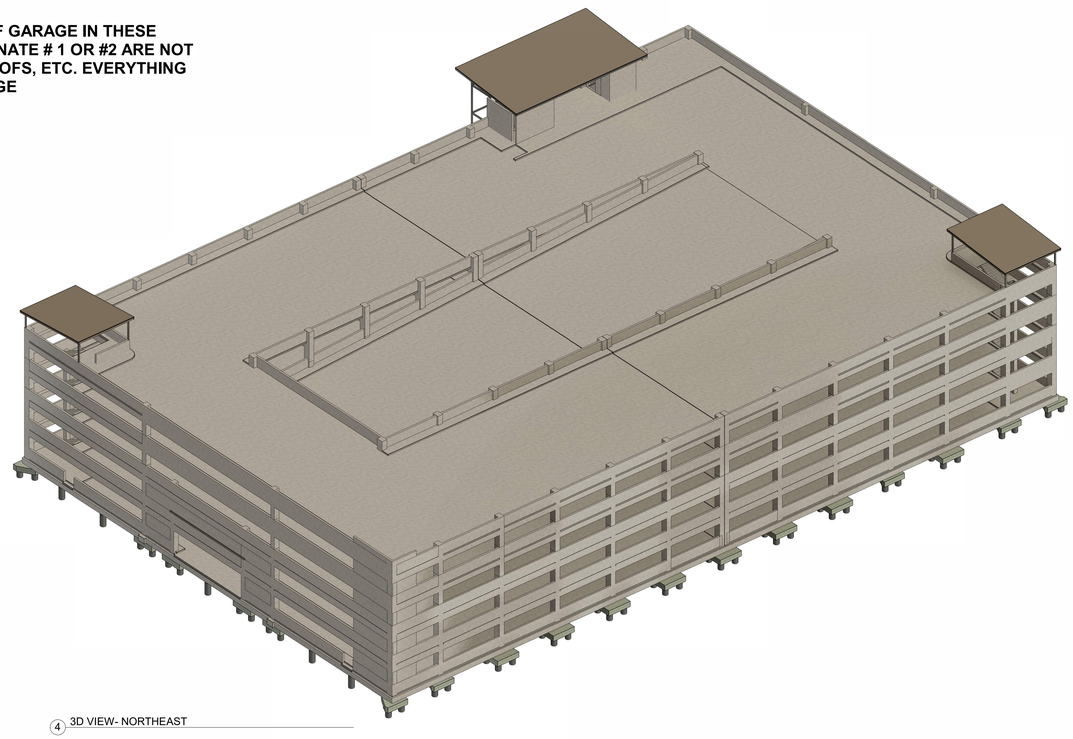
ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR #2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE



3 3D VIEW- SOUTHWEST



4 3D VIEW- NORTHEAST

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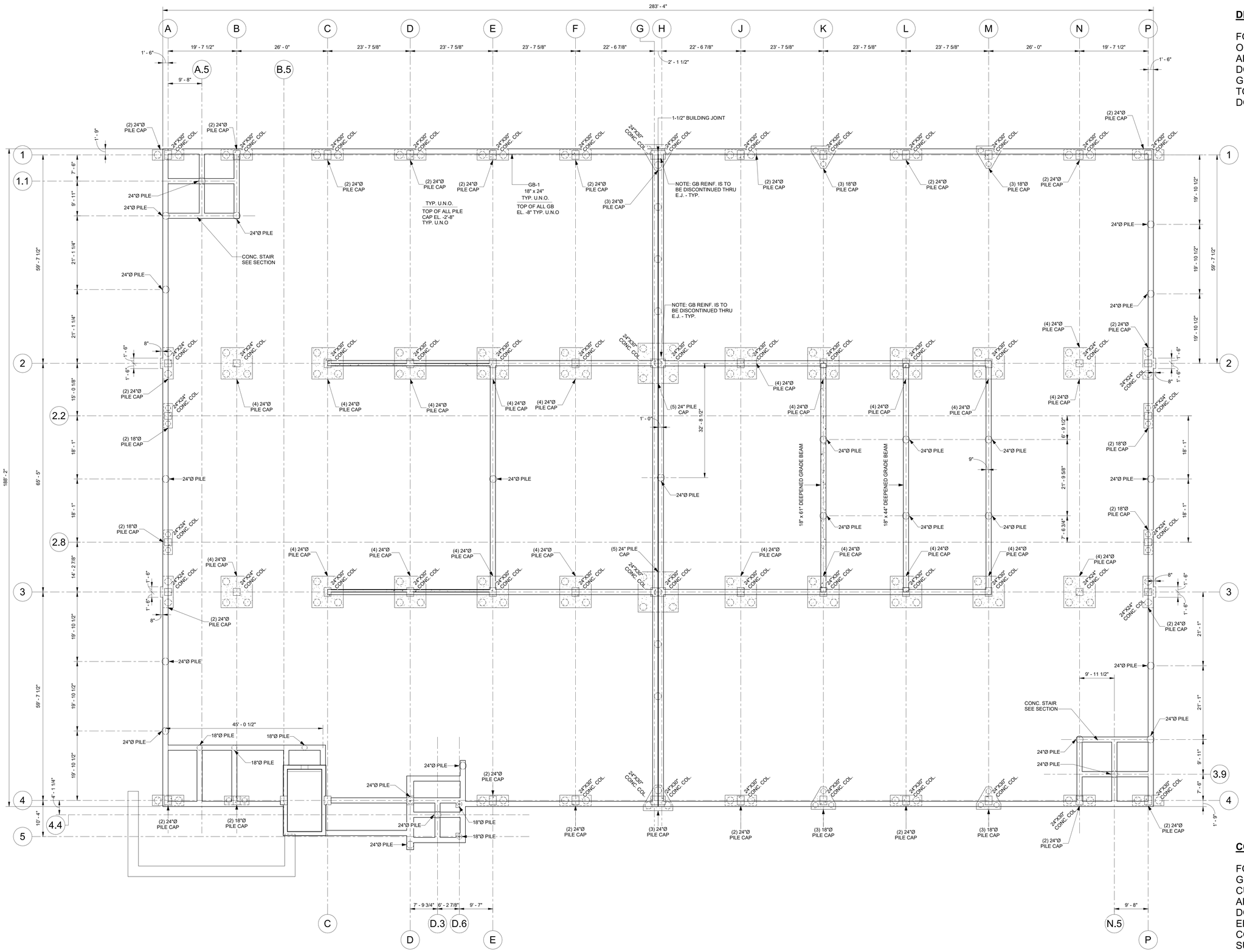
3D VIEWS

S0.1



FOUNDATION/ LEVEL 1 FRAMING PLAN (BASE BID)

3/32" = 1'-0"

DRAINAGE NOTE:

FOR DRAINAGE AND SLOPE OF CONCRETE SLABS REF. ARCHITECTURE DESIGN DOCUMENTS. ALL TOC. ELS. GIVEN BY ARCH. DOCUMENTS TO SUPERSEDE STRUCTURAL DOCUMENTS.

CONCRETE CURB NOTE:

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WHLC ARCHITECTURE

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CIVIL ENGINEERING
09-09-2026

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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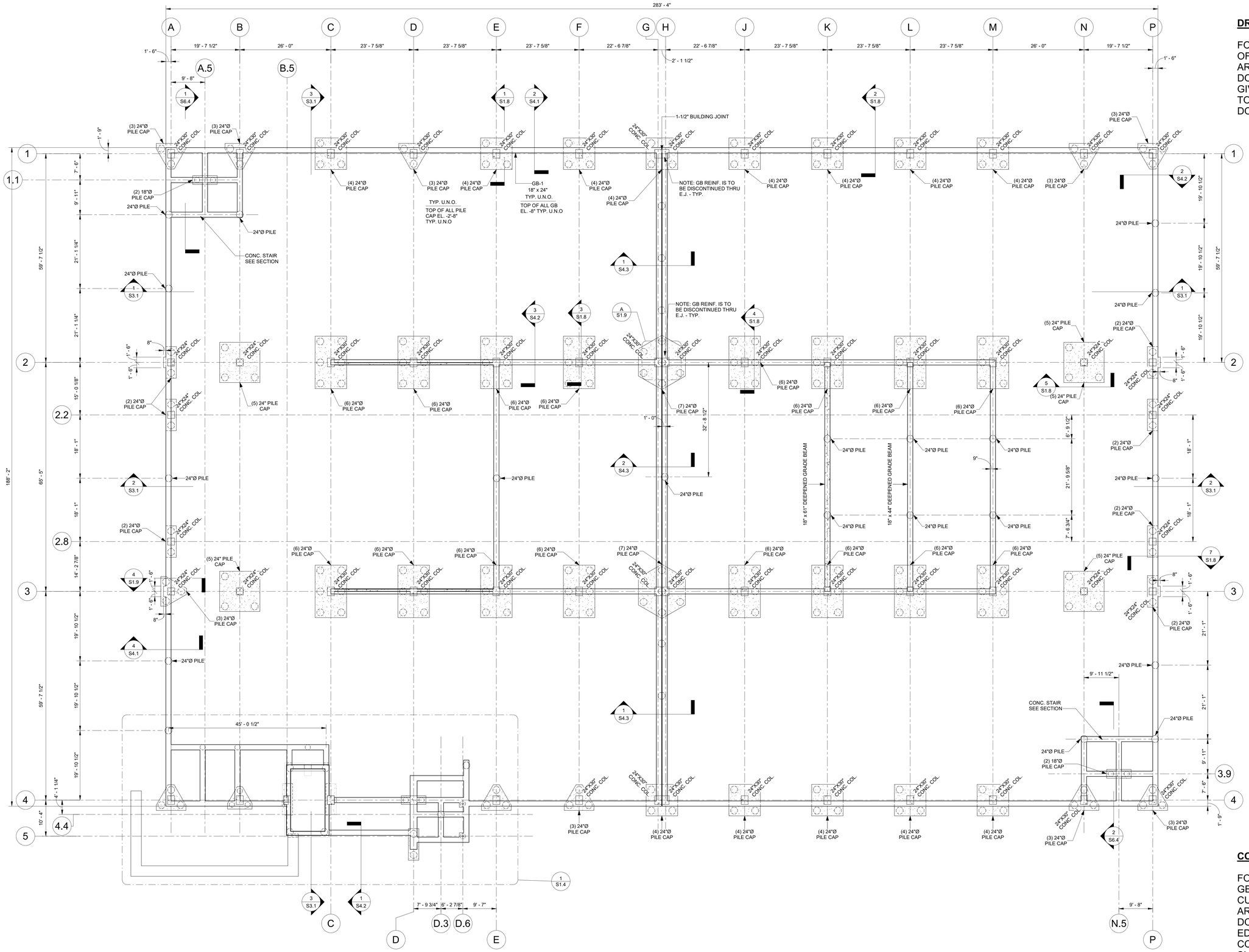
FOUNDATION/LEVEL 1 FRAMING PLAN (BASE BID)

S1.1



FOUNDATION/ LEVEL 1 FRAMING PLAN (ALTERNATES)

3/32" = 1'-0"

DRAINAGE NOTE:

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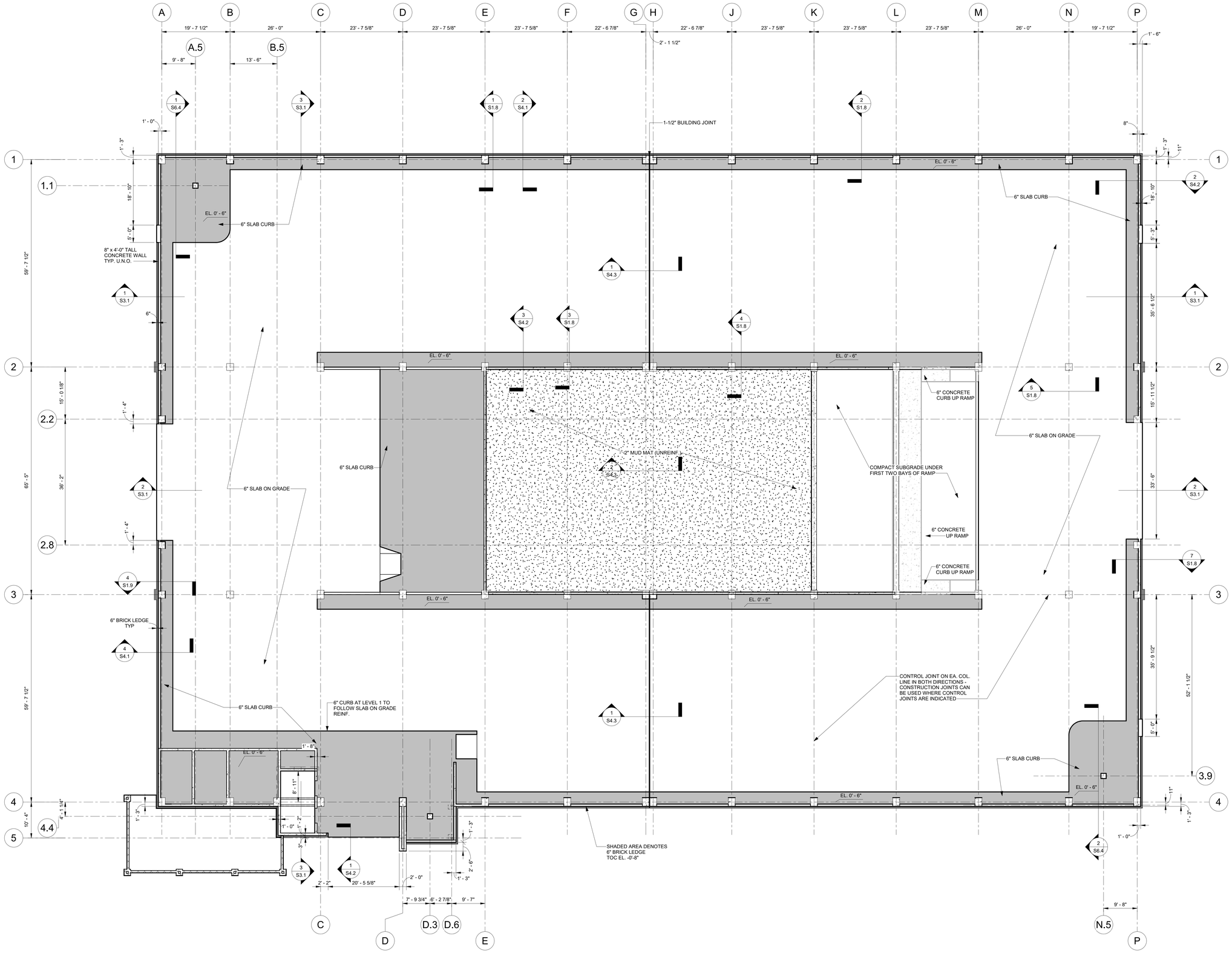
FOUNDATION/LEVEL 1 FRAMING PLAN (ALTERNATES)

S1.2



SLAB/ LEVEL 1 FRAMING PLAN

3/32" = 1'-0"

DRAINAGE NOTE:

FOR DRAINAGE AND SLOPE OF CONCRETE SLABS REF. ARCHITECTURE DESIGN DOCUMENTS. ALL TOC. ELS. GIVEN BY ARCH. DOCUMENTS TO SUPERSEDE STRUCTURAL DOCUMENTS.

CONCRETE CURB NOTE:

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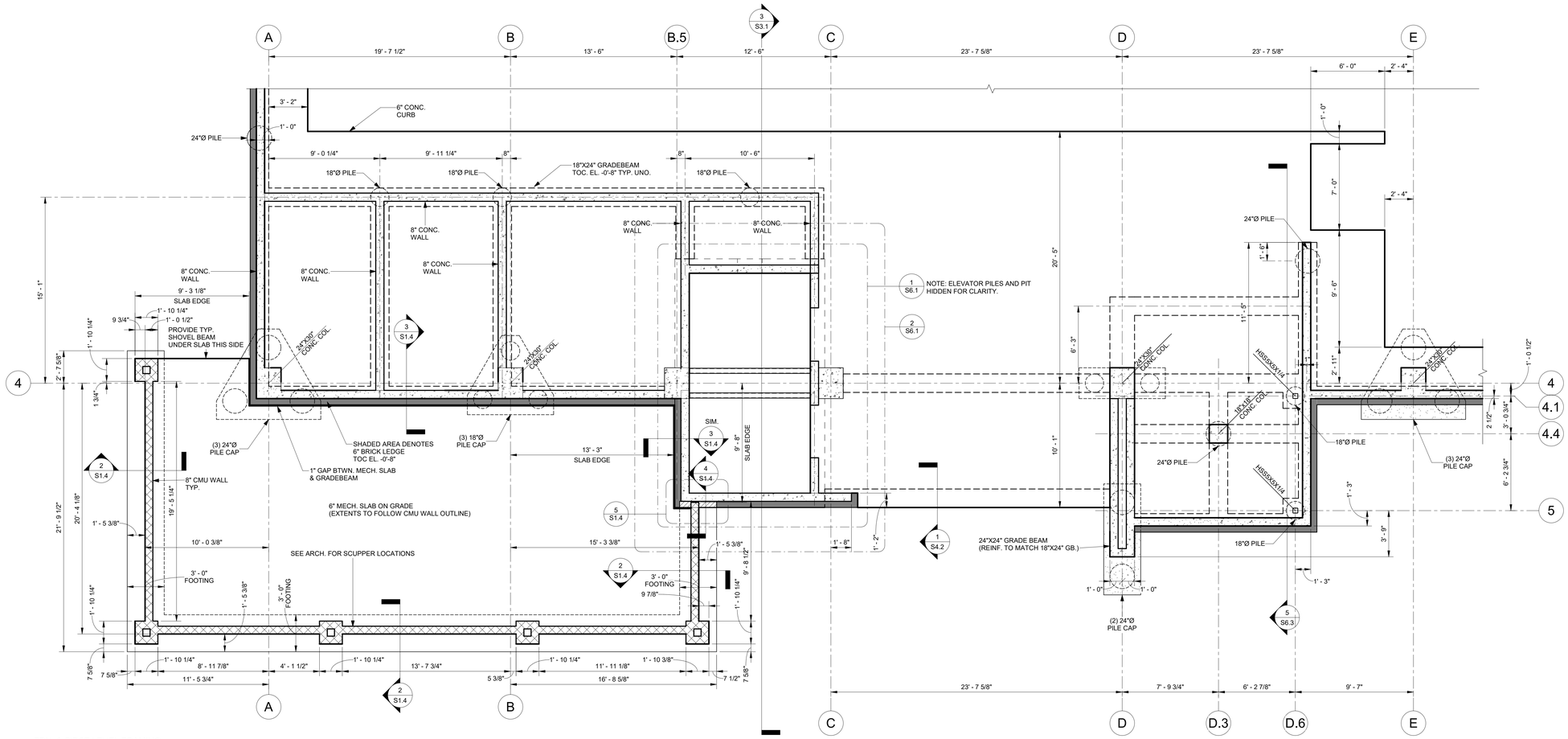
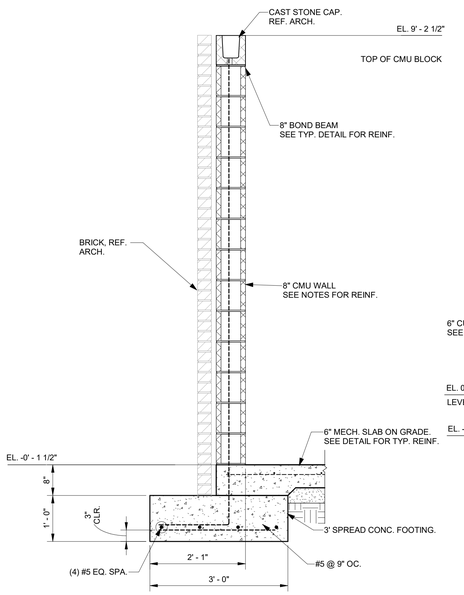
SLAB/LEVEL 1 FRAMING PLAN

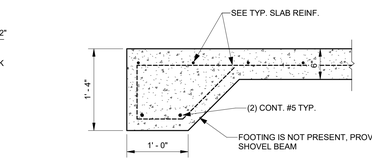
S1.3



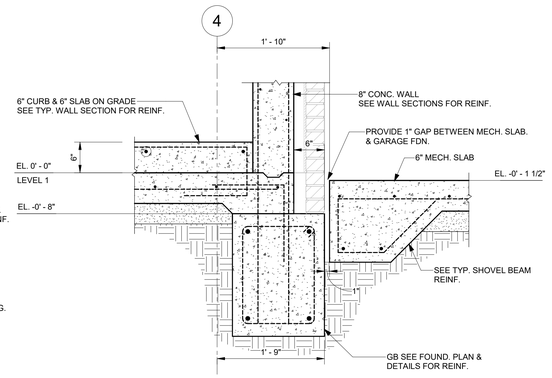
1 FDN. & FIRST LEVEL FRAMING - ENLARGED PLAN - SW AREA
1/4" = 1'-0"



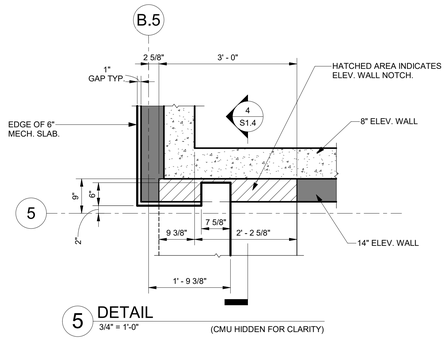
2 SECTION
3/4" = 1'-0"



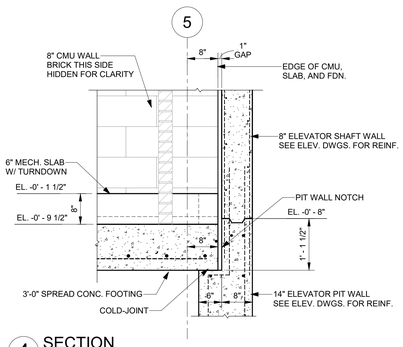
TYPICAL SHOVEL BEAM DETAIL



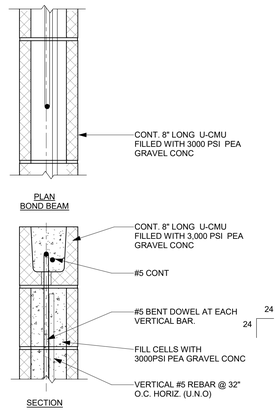
3 SECTION
1" = 1'-0"



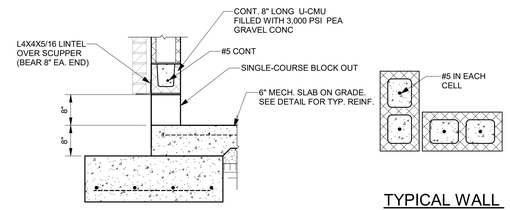
5 DETAIL
3/4" = 1'-0"
(CMU HIDDEN FOR CLARITY)



4 SECTION
3/4" = 1'-0"



8" CMU BOND BEAM DETAIL



BEAR LINTELS A MINIMUM OF 8" EACH END. THE FIRST CELL ON EACH SIDE OF AN OPENING SHALL BE FILLED AND CONTAIN A #5 BAR. ALL STEEL ANGLE LINTELS TO BE HOT-DIPPED GALVANIZED.

SCUPPER DETAIL
REF. ARCH. FOR LOCATIONS, QTY., AND OPENING SIZE

TYPICAL WALL INTERSECTIONS
SEE FOUNDATION PLAN FOR LOCATIONS

DRAINAGE NOTE:

FOR DRAINAGE AND SLOPE OF CONCRETE SLABS REF. ARCHITECTURE DESIGN DOCUMENTS. ALL TOC. ELS. GIVEN BY ARCH. DOCUMENTS TO SUPERSEDE STRUCTURAL DOCUMENTS.

CONCRETE CURB NOTE:

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CMU WALL NOTES:

1. UNLESS OTHERWISE NOTED ON THESE DRAWINGS, ALL 8" CMU WALLS SHALL HAVE ONE (1) No. 5 REBAR IN CONCRETE FILLED CELLS AT 32" ON CENTER HORIZONTALLY EXTENDING FROM THE FLOOR SLAB TO THE COURSING BELOW THE CMU BOND BEAM AT THE TOP OF THE WALL.
2. A 90 DEGREE No. 5 HOOKED REBAR WITH A 1'-6" LEG SHALL BE PLACED IN THE FOOTING AND RUN INTO THE FILLED CELLS AT EACH VERTICAL REBAR UNLESS OTHERWISE NOTED
3. UNLESS NOTED OTHERWISE ON THESE PLANS AND IN ADDITION TO FILLED VERTICAL CELLS, THE CMU WALLS SHALL HAVE A CONTINUOUS BOND BEAM AT TOP OF ALL LOAD BEARING WALLS. THESE BOND BEAMS SHALL HAVE A MINIMUM OF ONE (1) NO. 5 REBAR AND SHALL BE FILLED WITH CONCRETE. (SEE DWGS FOR ADDITIONAL REINFORCEMENT)
4. CONCRETE GROUT FOR CMU BOND BEAMS, FILLED CELLS AND PILASTERS SHALL BE MIXTURE (PORTLAND CEMENT, SAND, PEA GRAVEL) AND SHALL MEET ASTM C476-10 STANDARD SPECIFICATIONS FOR GROUT FOR MASONRY. IT SHALL ATTAIN 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WEN MIXED WITH SUFFICIENT WATER TO HAVE A 9" SLUMP. PEA GRAVEL SHALL HAVE 3/8" MAXIMUM SIZE.
5. PROVIDE CORNER BARS (SIZE TO MATCH BOND BEAM REBAR) AT ALL BOND BEAM INTERSECTIONS.

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ENLARGED FOUNDATION & FIRST LEVEL FRAMING PLANS

S1.4

COLUMN SCHEDULE

GRID LOC. / LEVEL	A-1, P-1, C-2, D-2, E-2, C-4, P-4, B.5-D	B-1	C-1, D-1	E-1, M-1, N-1	F-1, J-1, K-1, L-1, J-4, K-4, L-4	G-1, H-1, H-2, L-2, M-2, C-3, D-3, E-3, F-3, G-3, H-3, K-3, M-3, D-4, G-4, H-4	A-2	B-2	F-2, A-4	G-2	J-2	K-2	N-2, B-3	A-3
SIZE	24" x 30"	24" x 30"	24" x 30"	24" x 30"	24" x 30"	24" x 30"	24" x 24"	24" x 24"	24" x 30"	24" x 30"	24" x 30"	24" x 30"	24" x 24"	24" x 24"
TOP OF 5TH LEVEL SLAB EL. = 46'-0" U.N.O.	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"		4'-0"
TOP OF 4TH LEVEL SLAB EL. = 34'-6" U.N.O.	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #11	(10) #8	(8) #8	(8) #8
TOP OF 3RD LEVEL SLAB EL. = 23'-0" U.N.O.	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #11	(10) #8	(8) #8	(8) #8
TOP OF 2ND LEVEL SLAB EL. = 11'-6" U.N.O.	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #9	(10) #8	(8) #8	(8) #8
TOP OF 1ST LEVEL SLAB EL. = 0'-0" U.N.O.	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #9	(10) #8	(8) #8	(8) #8
TOP OF PILE CAP SEE FOUND. PLAN	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(8) #8	(8) #8
	#3 TIES @ 15" O.C.	#3 TIES @ 13" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 13" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 12" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 6" O.C.	#3 TIES @ 8" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 15" O.C.

GRID LOC. / LEVEL	J-3	L-3	N-3	P-3	B-4	E-4	F-4	M-4	N-4	A.5-1.1, N.5-3.9	D.3-4.4	P-3
SIZE	24" x 30"	24" x 30"	24" x 24"	24" x 24"	24" x 30"	24" x 30"	24" x 30"	24" x 30"	24" x 30"	18" x 18"	18" x 18"	24" x 24"
TOP OF 5TH LEVEL SLAB EL. = 46'-0" U.N.O.	4'-0"	4'-0"		4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"			
TOP OF 4TH LEVEL SLAB EL. = 34'-6" U.N.O.	(12) #11	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8			
TOP OF 3RD LEVEL SLAB EL. = 23'-0" U.N.O.	(12) #11	(10) #8	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	10'-0"	10'-0"	
TOP OF 2ND LEVEL SLAB EL. = 11'-6" U.N.O.	(12) #11	(10) #9	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(4) #9	(4) #9	
TOP OF 1ST LEVEL SLAB EL. = 0'-0" U.N.O.	(12) #11	(10) #9	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(4) #9	(4) #9	4'-0"
TOP OF PILE CAP SEE FOUND. PLAN	(12) #11	(10) #9	(8) #8	(8) #8	(10) #8	(10) #8	(10) #8	(10) #8	(10) #8	(4) #9	(4) #9	(8) #8
	#3 TIES @ 10" O.C.	#3 TIES @ 13" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 9" O.C.	#3 TIES @ 10" O.C.	#3 TIES @ 9" O.C.	#3 TIES @ 12" O.C.	#3 TIES @ 13" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 15" O.C.
										#3 TIES @ 9" O.C.	#3 TIES @ 15" O.C.	#3 TIES @ 15" O.C.

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR # 2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE

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FOUNDATION DETAILS - COLUMN SCH.

S1.5

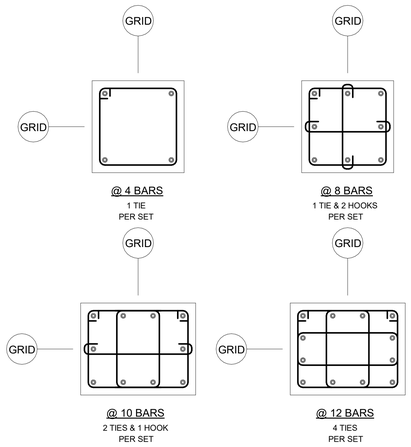
COLUMN REINFORCING

1. ALL SPLICES, LAPS, ETC. ARE TO CONFORM TO ACI 318-19.

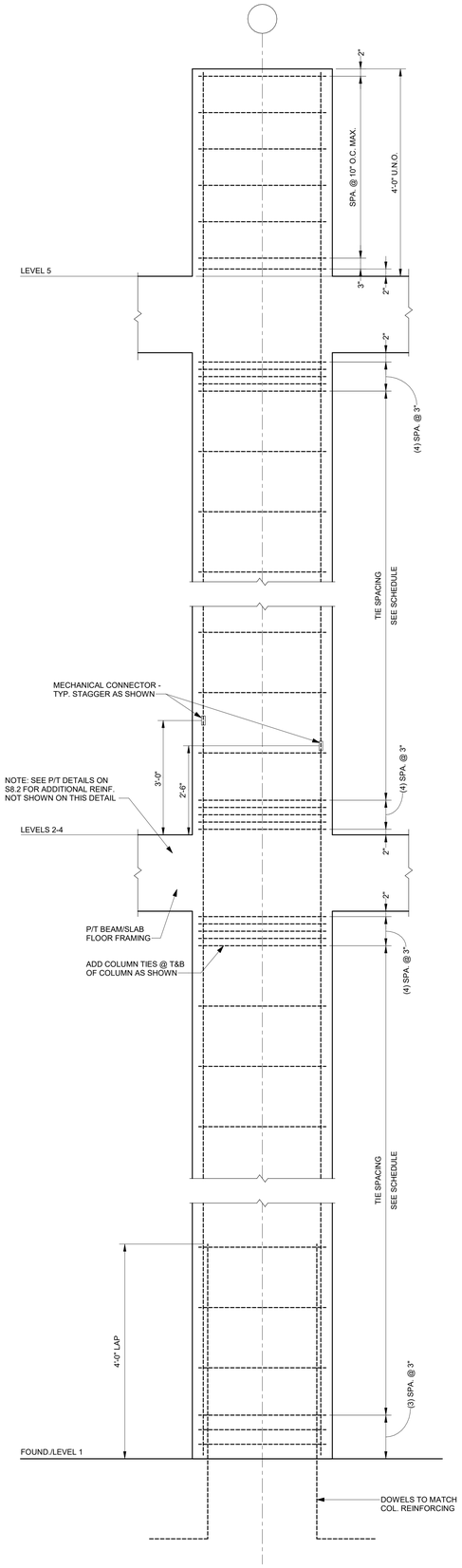
2. LAP SPLICES ARE TO BE CLASS B TENSION LAP SPLICES.

3. FULL MECHANICAL SPLICES OR FULL WELDED SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR.

4. THE CONTRACTOR IS TO SUBMIT SPECIFICATIONS AND INSTALLATION DETAILS FOR THE WELDED OR MECHANICAL CONNECTIONS TO THE ARCHITECT FOR APPROVAL PRIOR TO PREPARING THE REINFORCING STEEL SHOP DRAWINGS.



TYPICAL RECTANGULAR COLUMN TIE DETAILS



TYPICAL COLUMN REINFORCING DETAIL

NO SCALE

ALTERNATE NOTE:

ALTERNATE #1:
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ALTERNATE #2:
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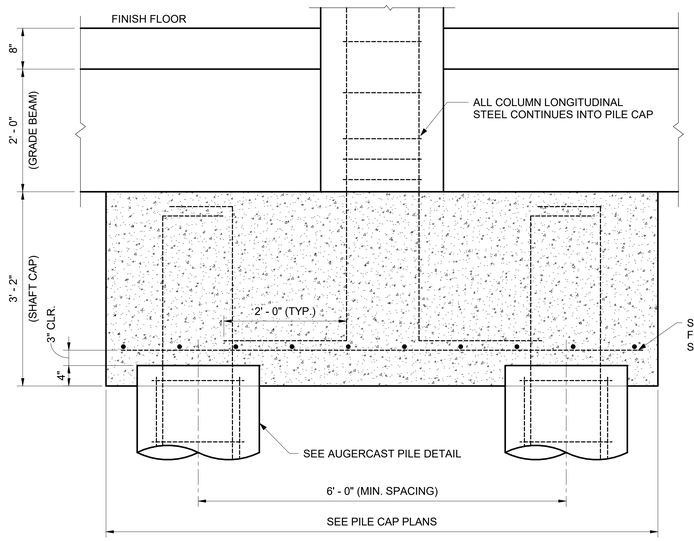
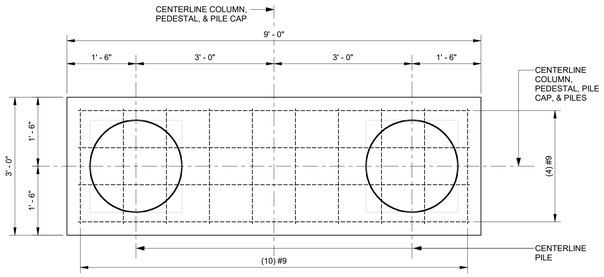
FOUNDATION DETAILS - COLUMN REINF.

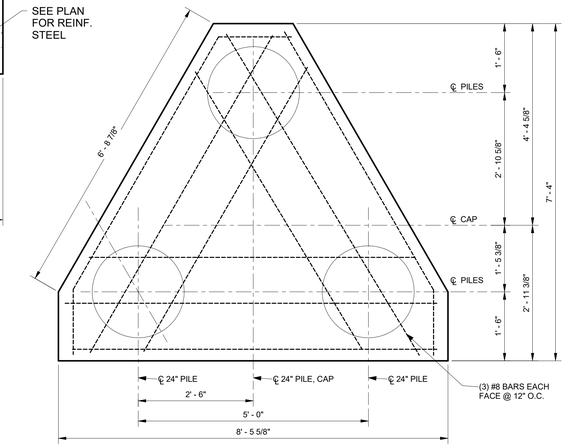
S1.6



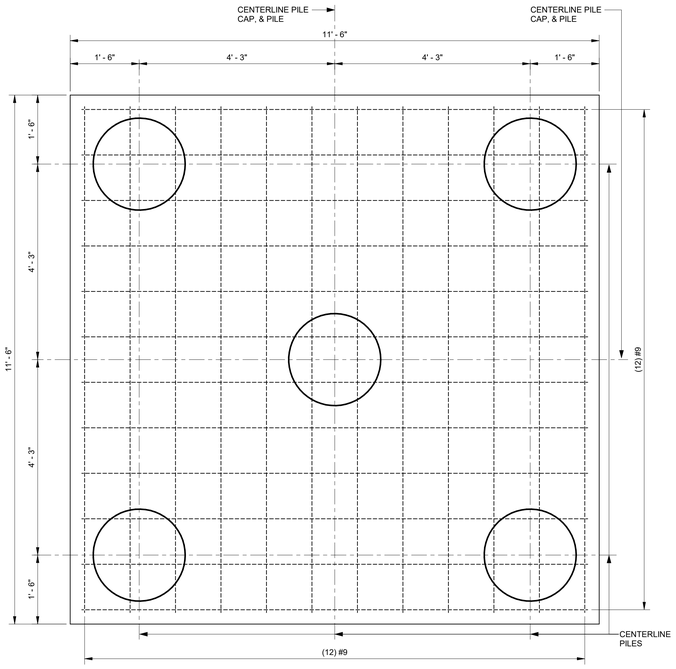
PILE CAP ELEVATION



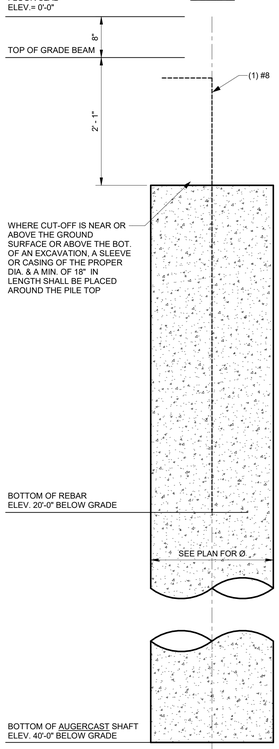
(2) 24"Ø AUGERCAST PILE CAP PLAN DETAIL



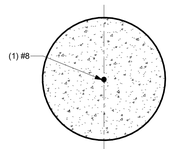
(3) 24"Ø AUGERCAST PILE CAP PLAN



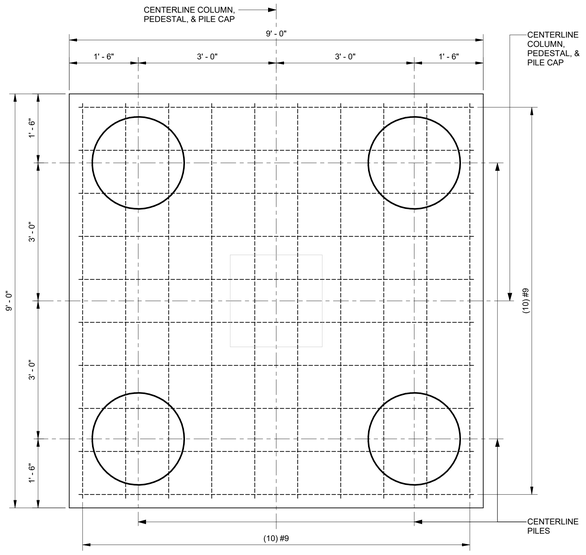
(5) 24"Ø AUGERCAST PILE CAP PLAN DETAIL



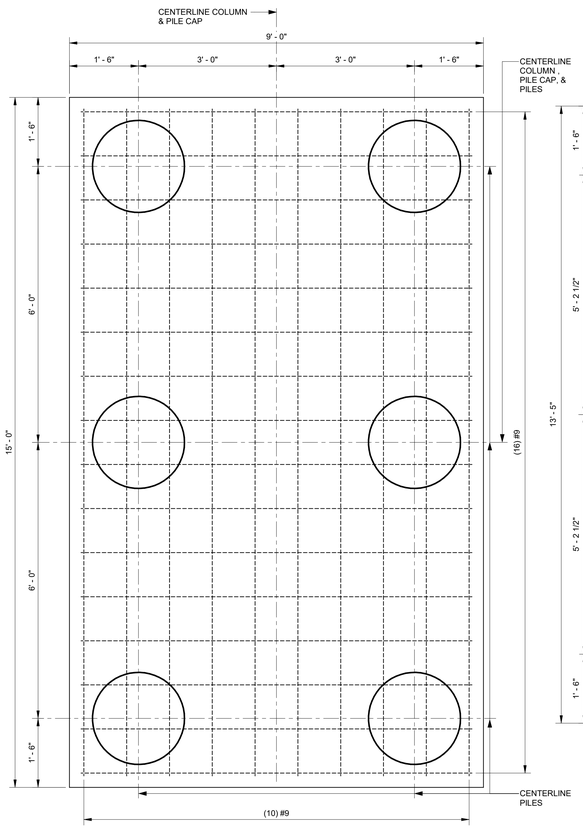
TYPICAL AUGERCAST PILE ELEVATION VIEW



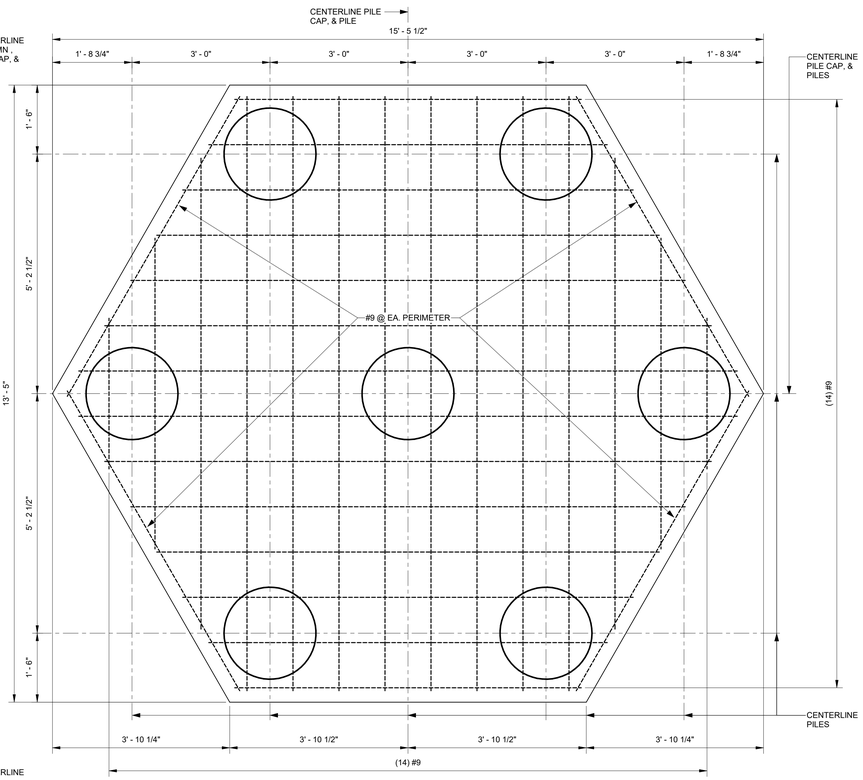
PLAN VIEW



(4) 24"Ø AUGERCAST PILE CAP PLAN DETAIL



(6) 24"Ø AUGERCAST PILE CAP PLAN DETAIL



(7) 24"Ø AUGERCAST PILE CAP PLAN DETAIL

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North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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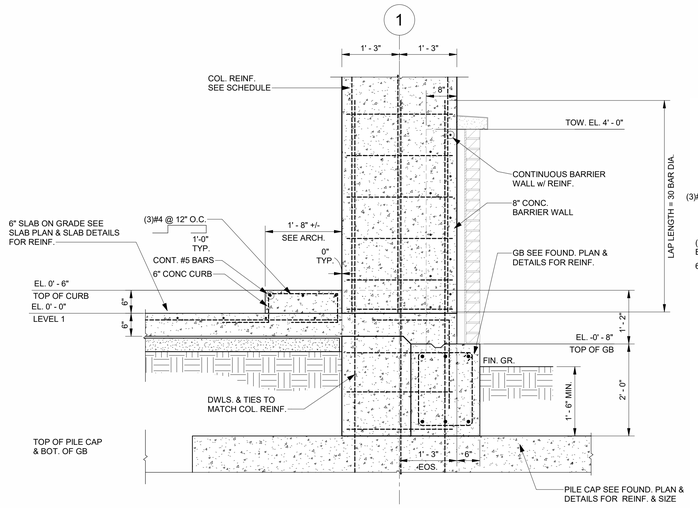
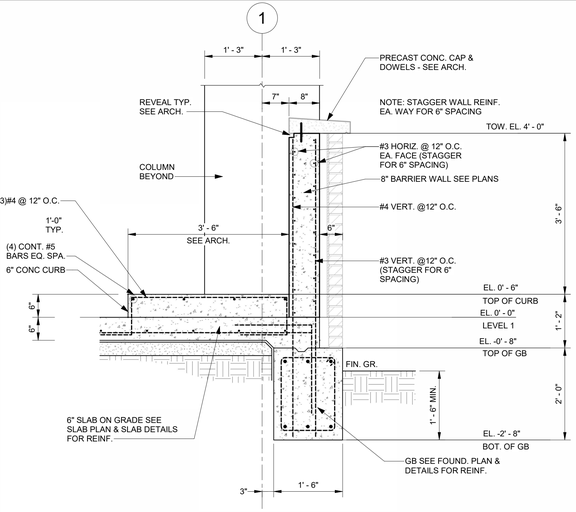
FOUNDATION DETAILS - PILES & PILE CAPS

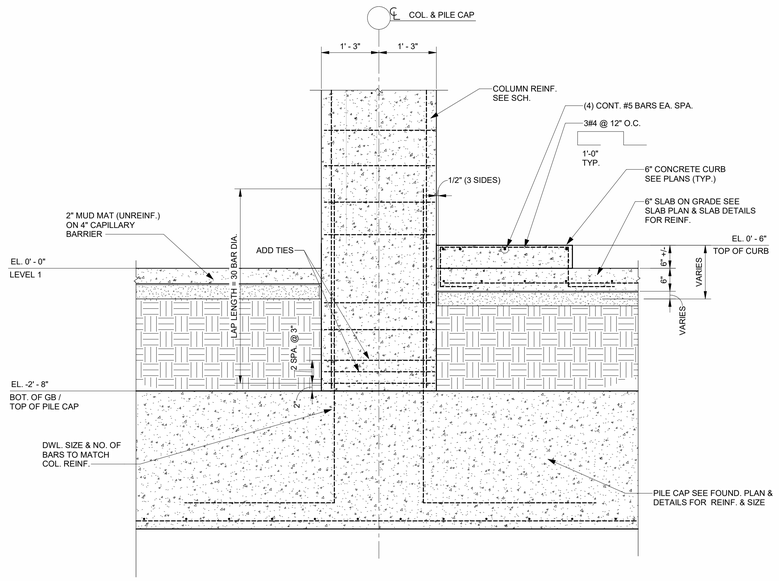
S1.7



1 SECTION
3/4" = 1'-0"

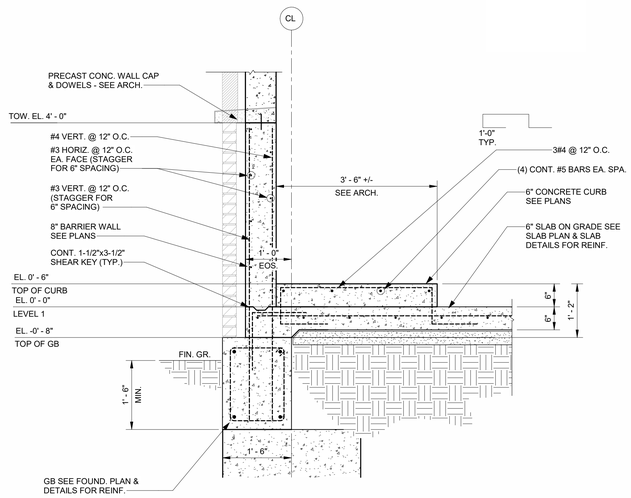


2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

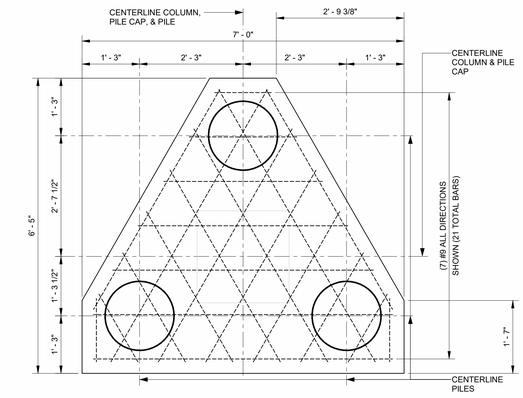
4 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

(2) 18"Ø AUGERCAST PILE CAP PLAN DETAIL



(3) 18"Ø AUGERCAST PILE CAP PLAN DETAIL

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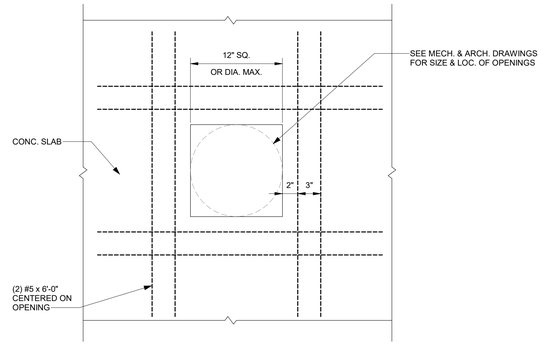
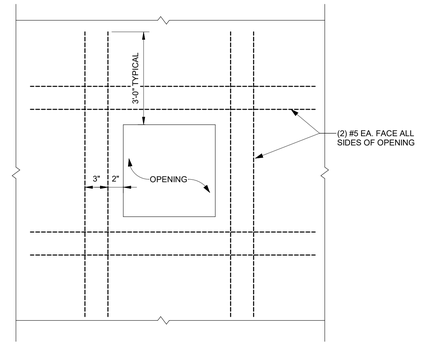
FOUNDATION
DETAILS

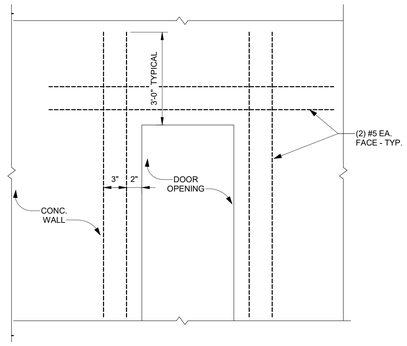
S1.8



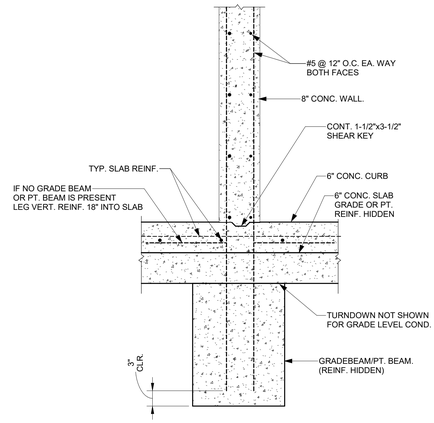
TYPICAL DETAIL AT FLOOR AND ROOF SLAB OPENINGS



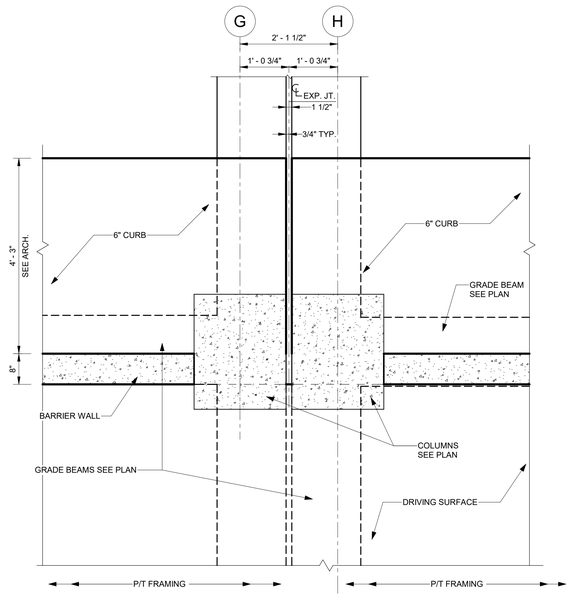
OPENING IN CONCRETE WALL DETAIL



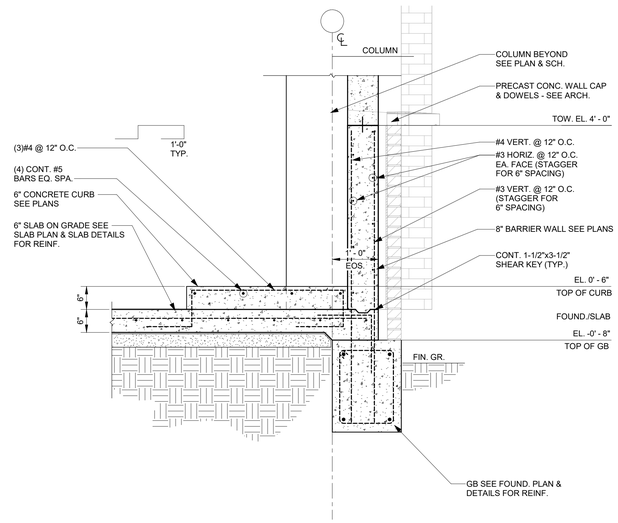
DOOR OPENING IN CONCRETE WALL DETAIL



TYPICAL 8" CONC. WALL PARTITION



A DETAIL
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

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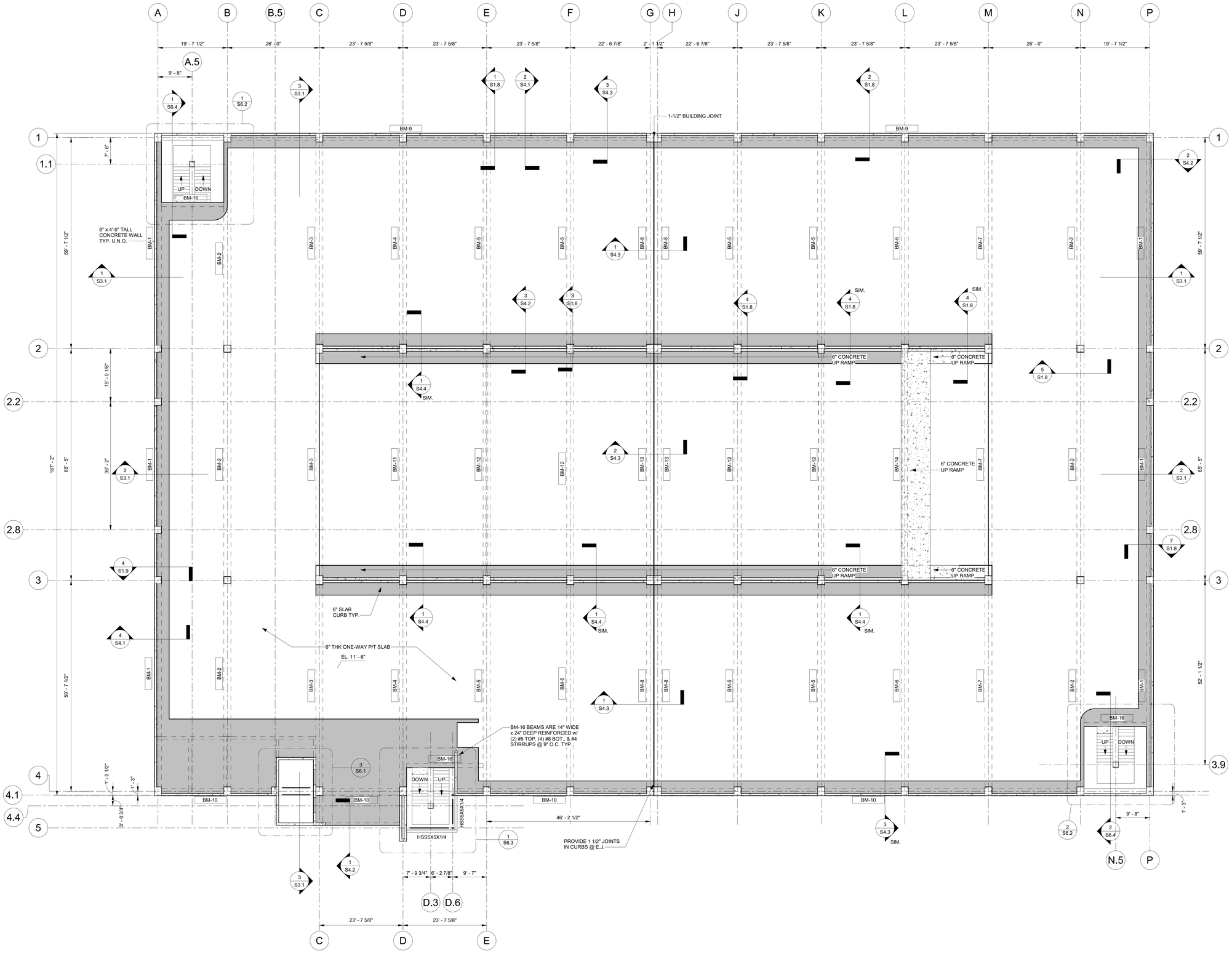
FOUNDATION DETAILS

S1.9



LEVEL 2 FRAMING PLAN

3/32" = 1'-0"

DRAINAGE NOTE:

FOR DRAINAGE AND SLOPE OF CONCRETE SLABS REF. ARCHITECTURE DESIGN DOCUMENTS. ALL TOC. ELS. GIVEN BY ARCH. DOCUMENTS TO SUPERSEDE STRUCTURAL DOCUMENTS.

CONCRETE CURB NOTE:

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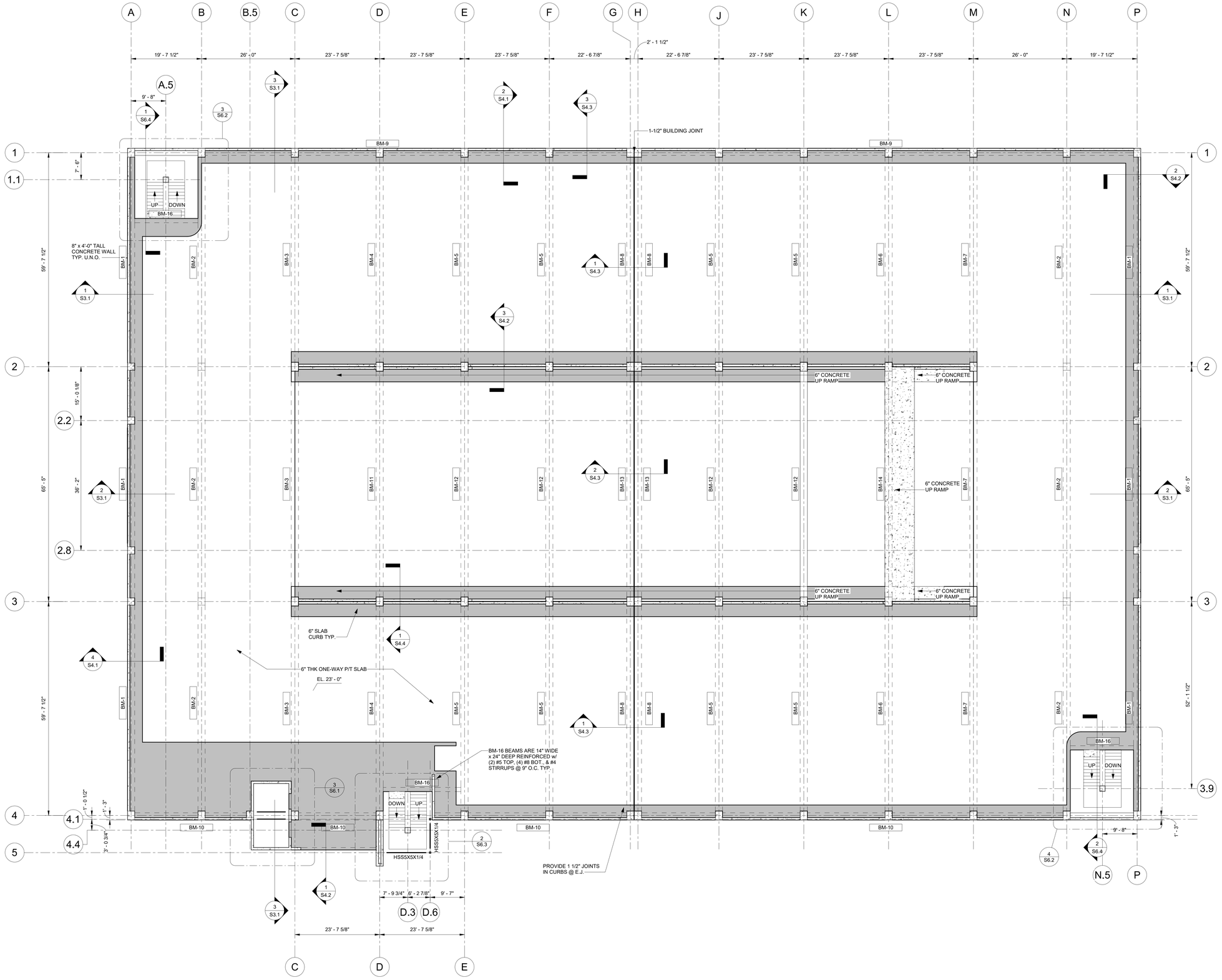
LEVEL 2 FRAMING PLAN

S2.1



LEVEL 3 FRAMING PLAN
3/32" = 1'-0"

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR # 2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE

DRAINAGE NOTE:

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CONCRETE CURB NOTE:

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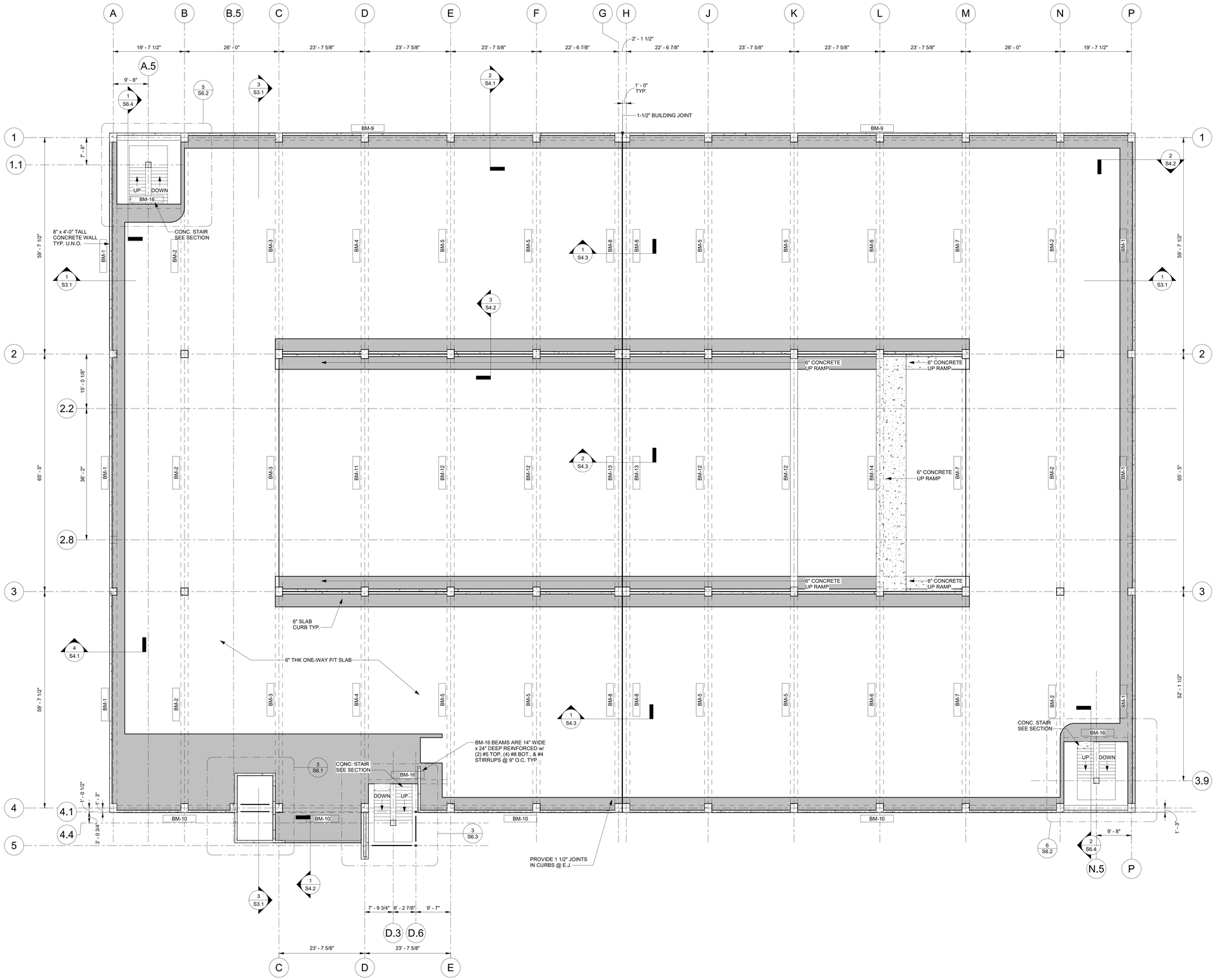
LEVEL 3 FRAMING PLAN

S2.2



LEVEL 4 FRAMING PLAN (ALTERNATE #1)
3/32" = 1'-0"

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

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DRAINAGE NOTE:

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CONCRETE CURB NOTE:

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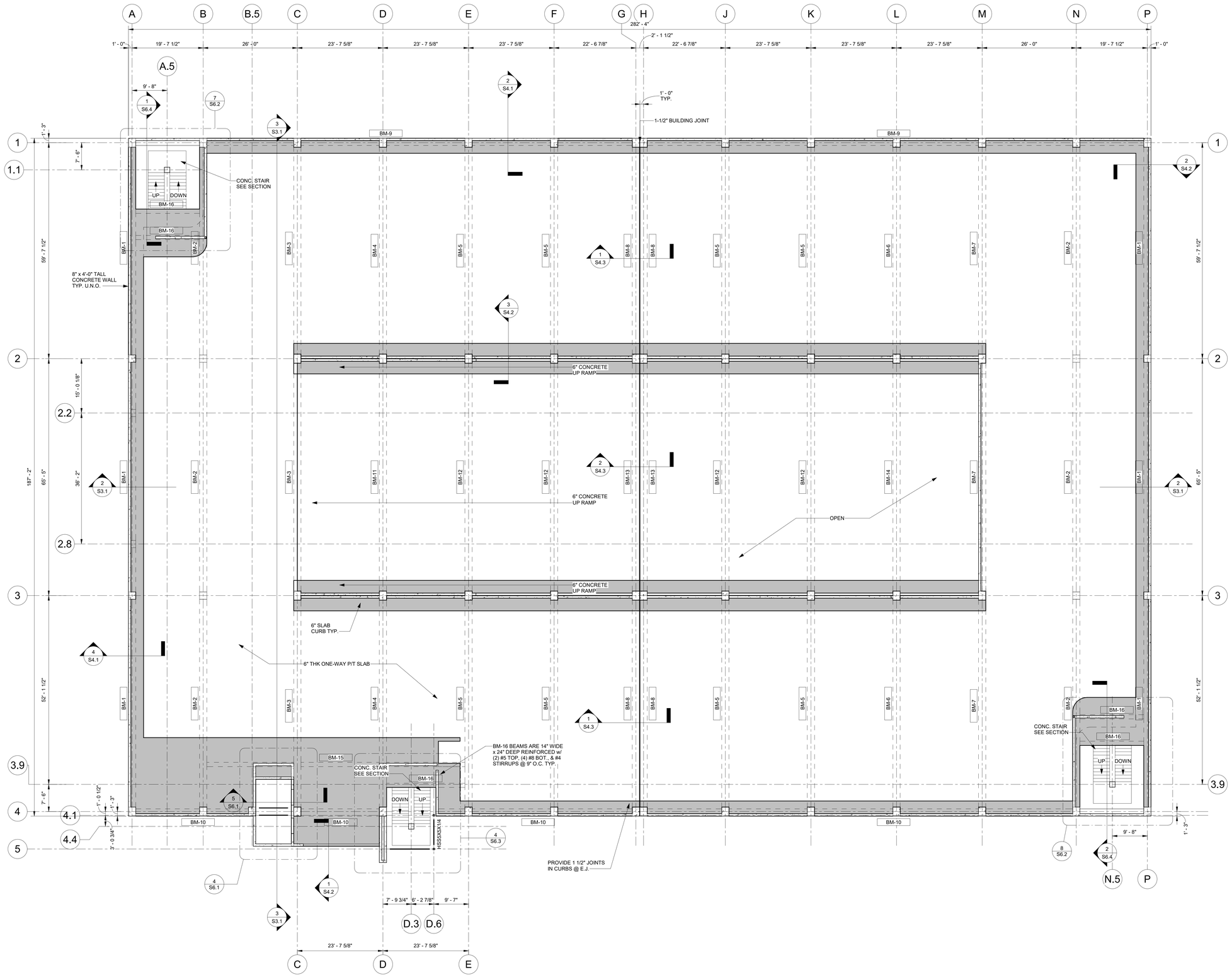
LEVEL 4 FRAMING PLAN (ALTERNATE #1)

S2.3



LEVEL 5 FRAMING PLAN (ALTERNATE #2)

3/32" = 1'-0"

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR # 2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE

DRAINAGE NOTE:

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CONCRETE CURB NOTE:

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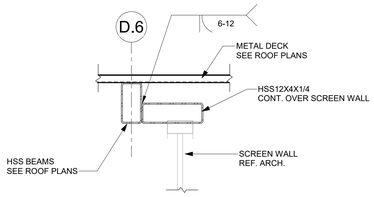
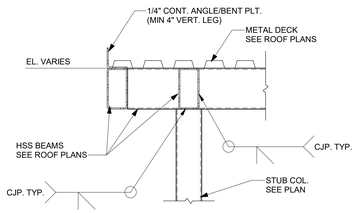
LEVEL 5 FRAMING PLAN (ALTERNATE #2)

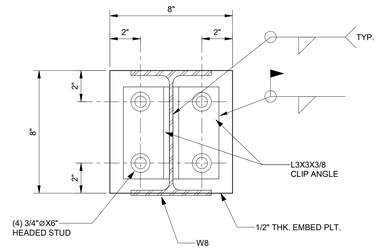
S2.4



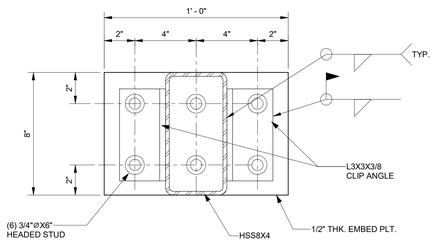
1 SECTION
1" = 1'-0"



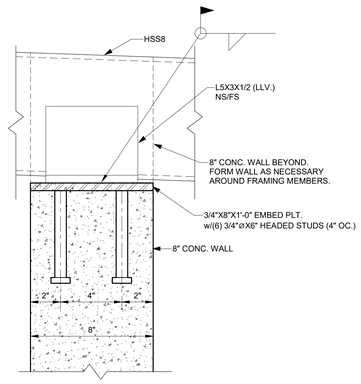
TYPICAL ROOF FRAMING DETAIL



W8 SIDE-WALL EMBED DETAIL



HSS SIDE-WALL EMBED DETAIL



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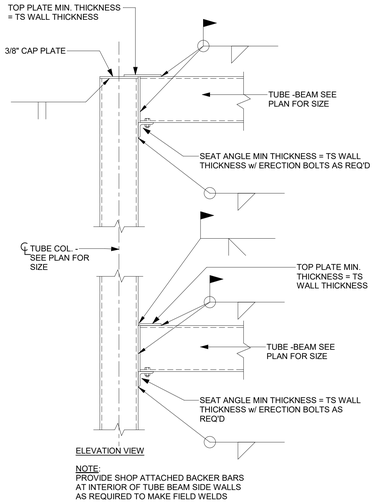

TYPICAL FIXED HSS BEAM TO
HSS COLUMN CONNECTION

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

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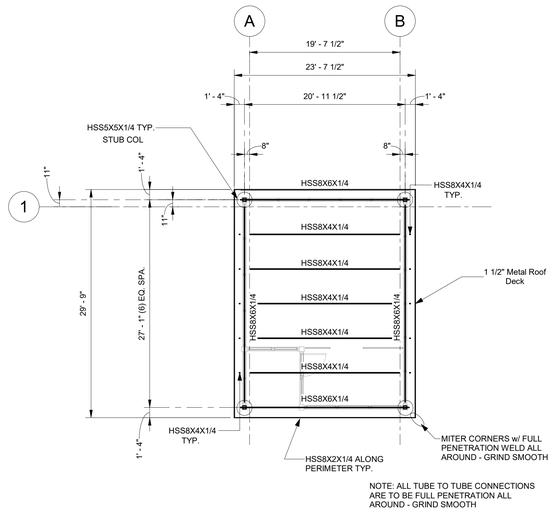
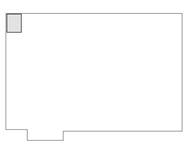
GENERAL NOTE:

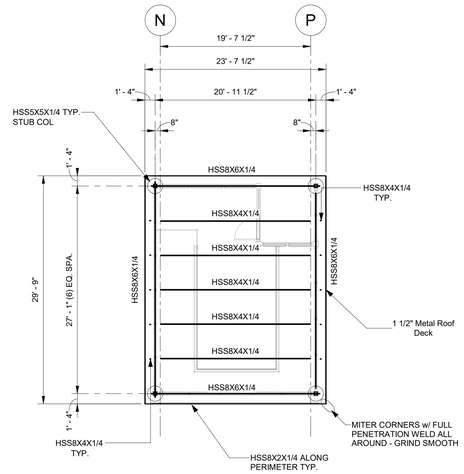
REF. ARCH. FOR AESS WELDING REQUIREMENTS.



LOW ROOF FRAMING PLAN
1/8" = 1'-0"

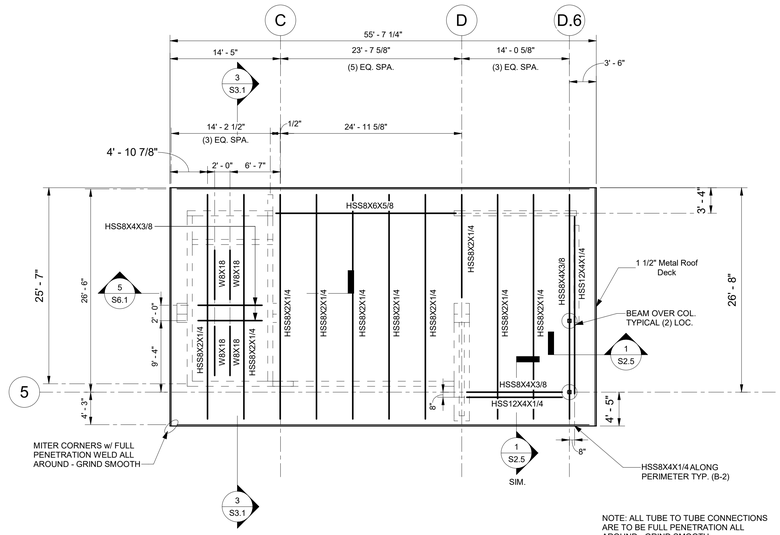


KEY PLAN

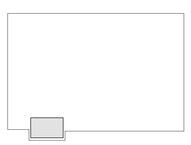


LOW ROOF FRAMING PLAN
1/8" = 1'-0"

KEY PLAN



HIGH ROOF FRAMING PLAN
1/8" = 1'-0"



KEY PLAN

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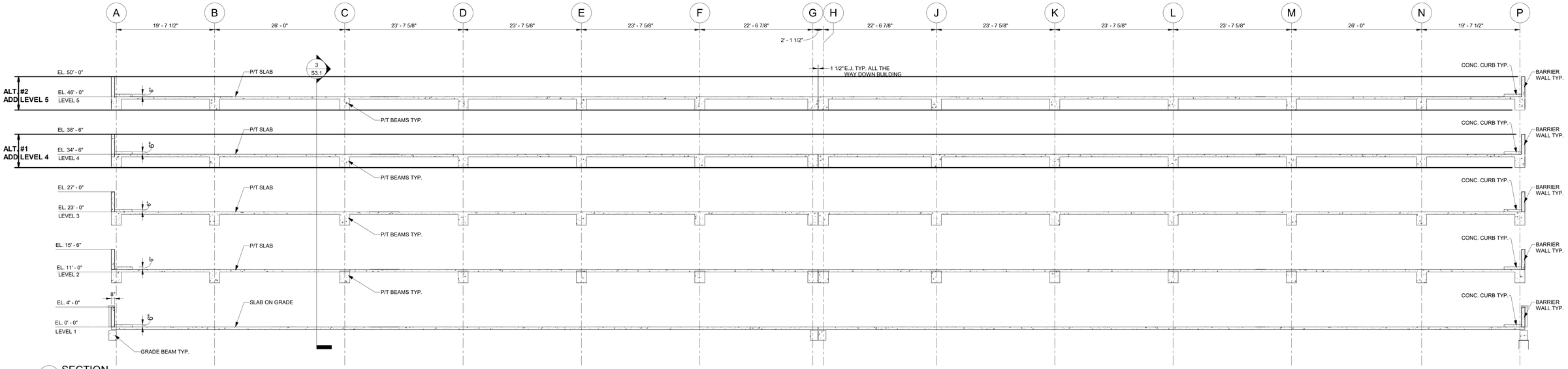
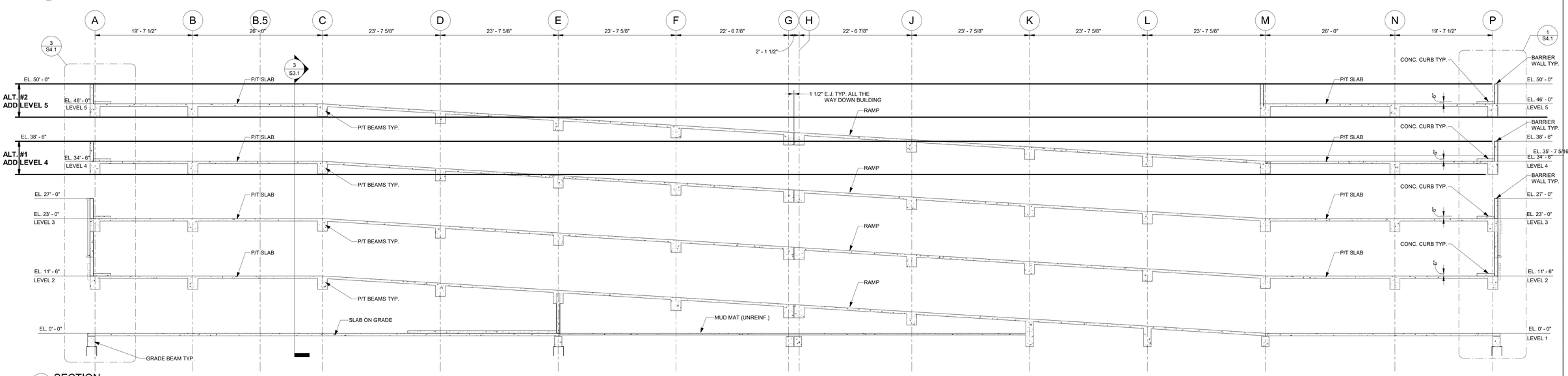
ROOF FRAMING
PLANS

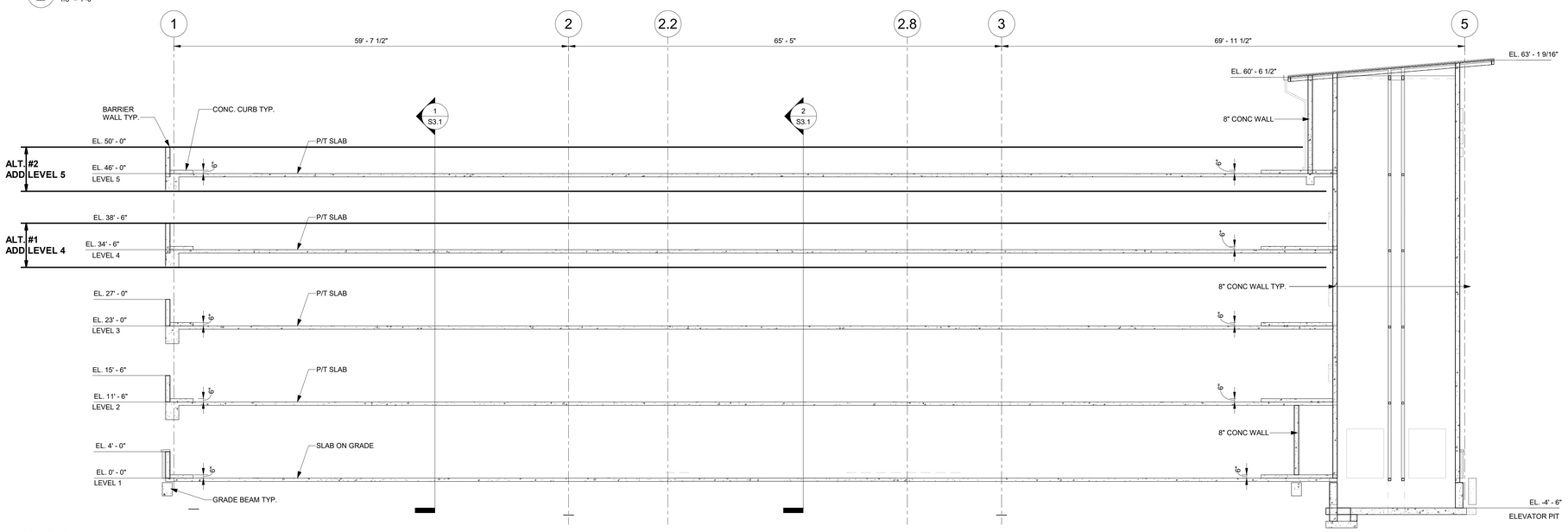
S2.5



1 SECTION
1/8" = 1'-0"



2 SECTION
1/8" = 1'-0"



3 SECTION
1/8" = 1'-0"

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BUILDING SECTIONS

S3.1

GENERAL NOTE:

DRIP EDGES, REVEALS, AND GROOVES FOR CONCRETE WALLS AND OTHER CONCRETE MEMBERS MAY NOT BE EXPLICITLY SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURE DESIGN DRAWINGS FOR LOCATIONS & SIZE OF SUCH ITEMS.

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
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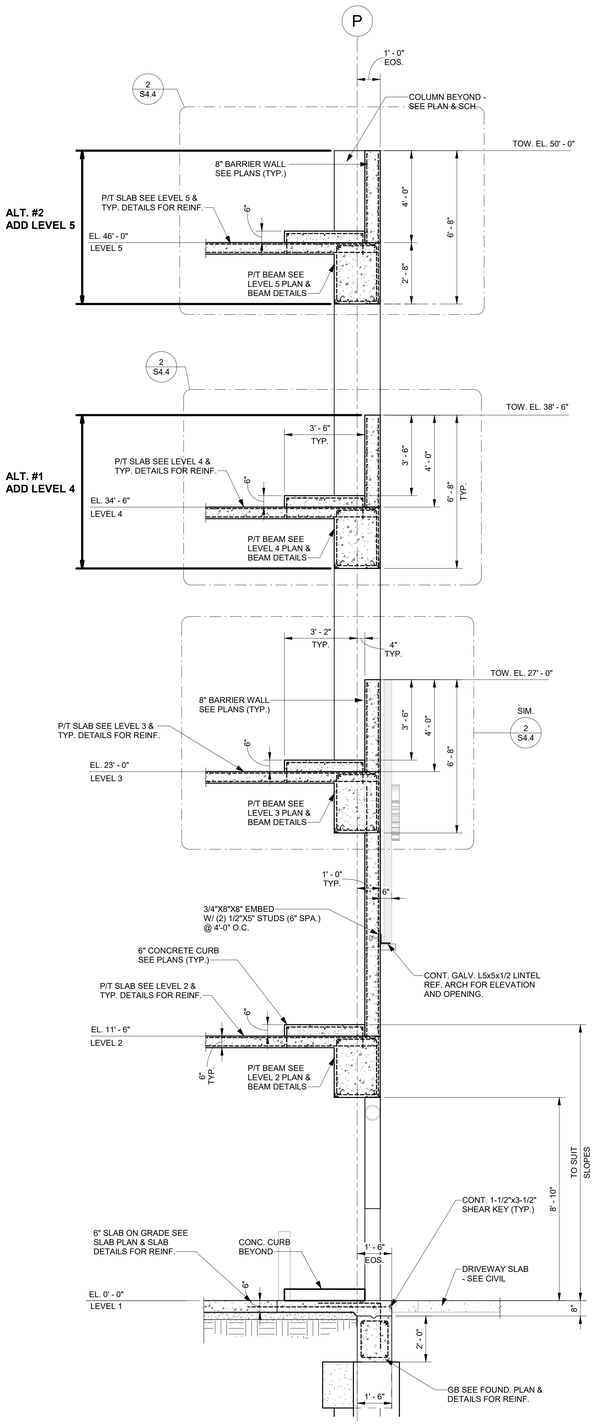
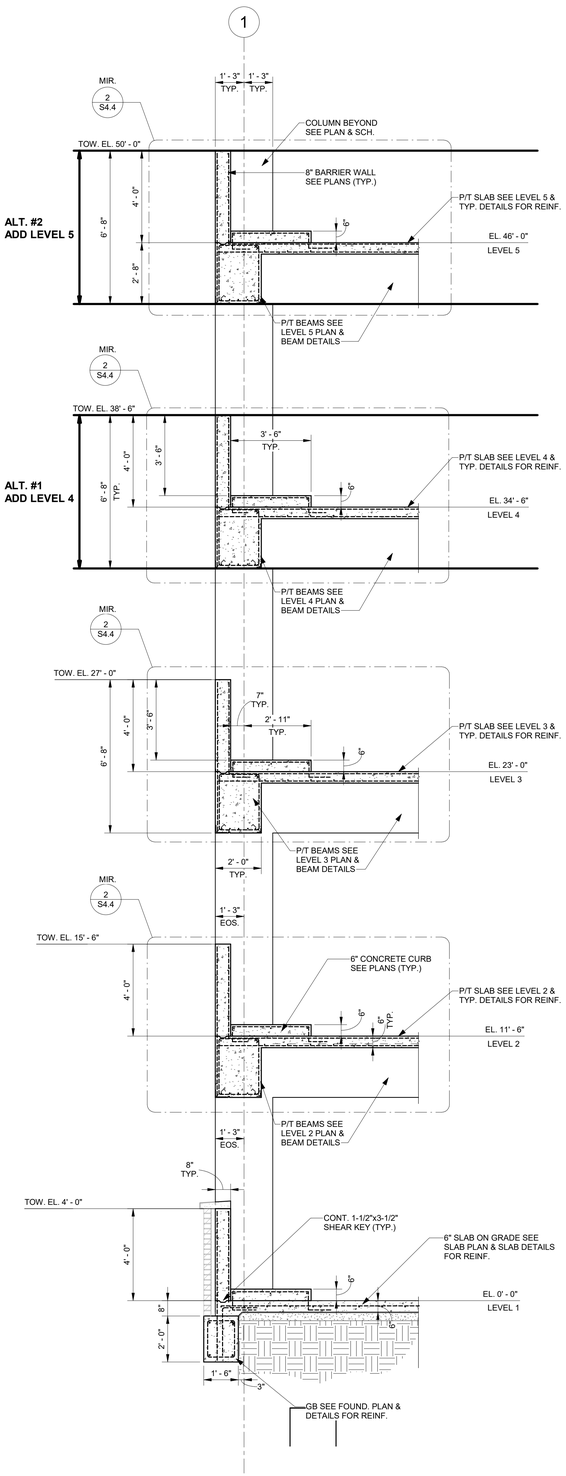
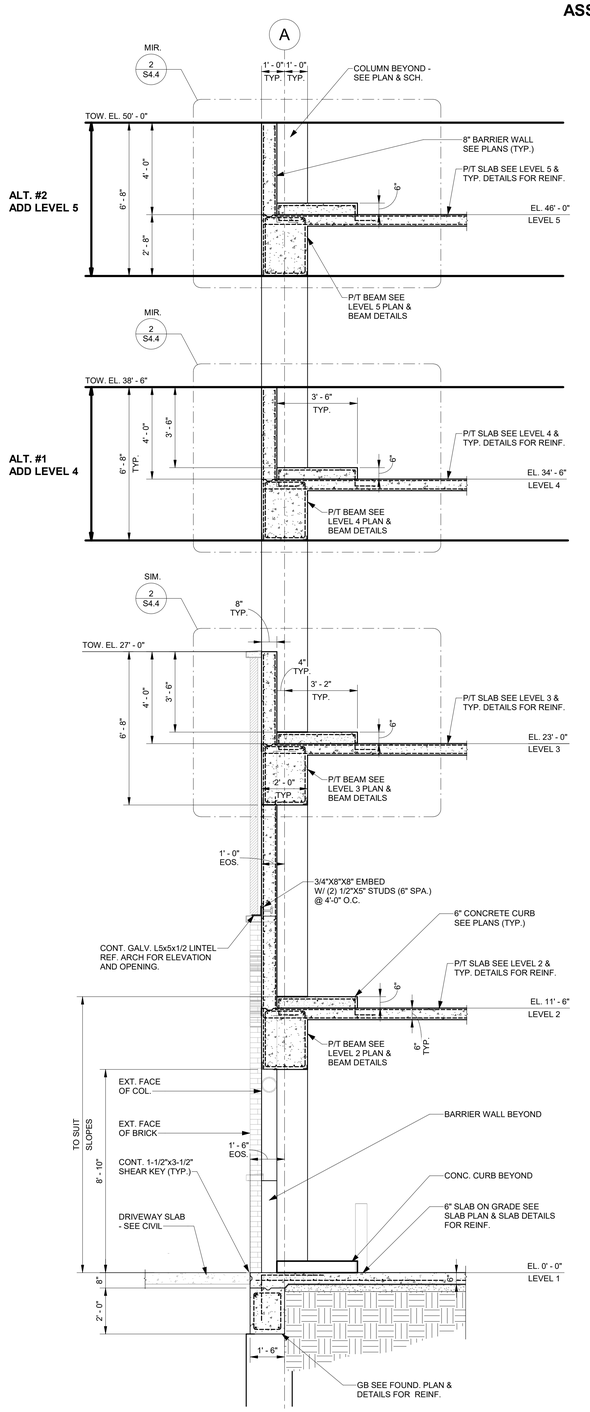
ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR #2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE



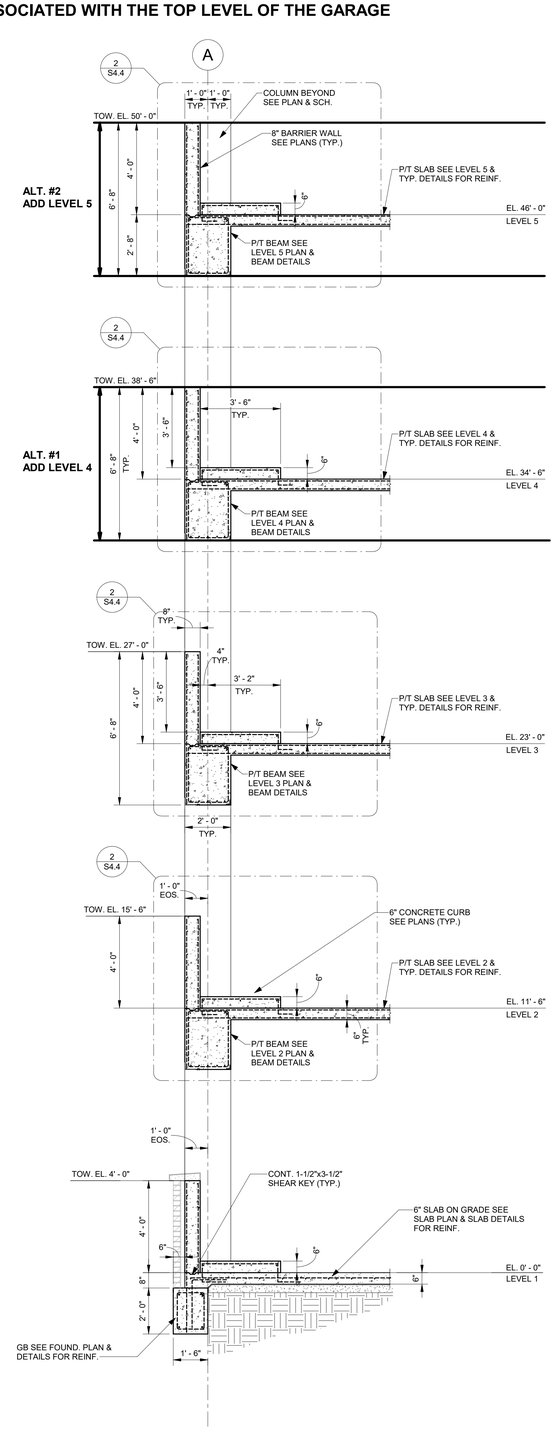
1 SECTION
3/8" = 1'-0"



2 SECTION
3/8" = 1'-0"



3 SECTION
3/8" = 1'-0"



4 SECTION
3/8" = 1'-0"

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PROFESSIONAL ENGINEER
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North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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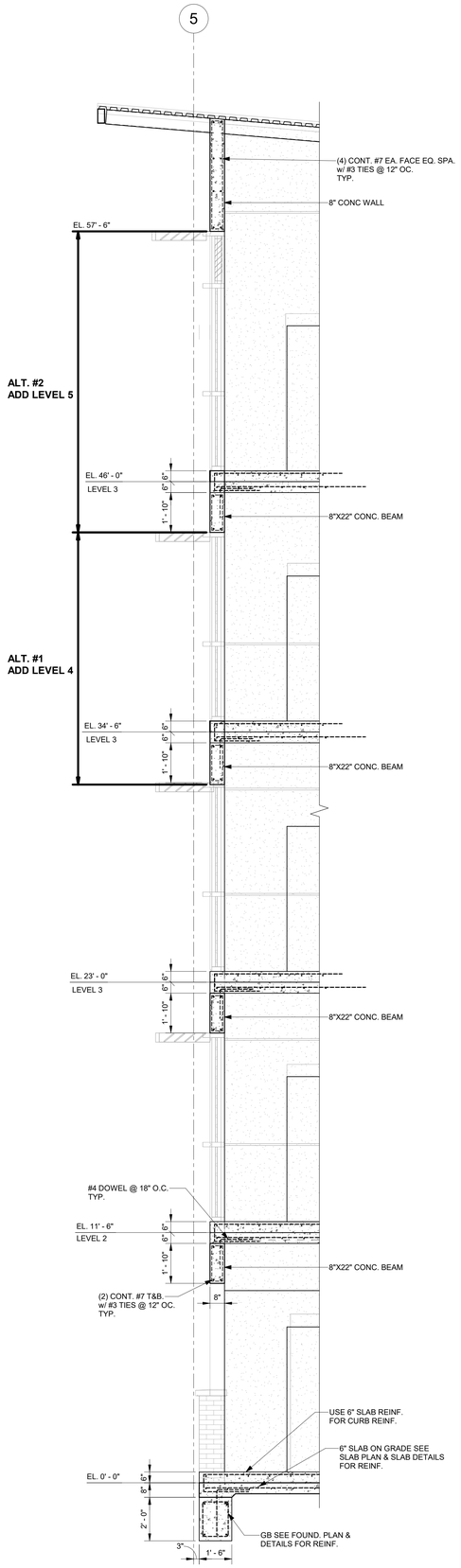
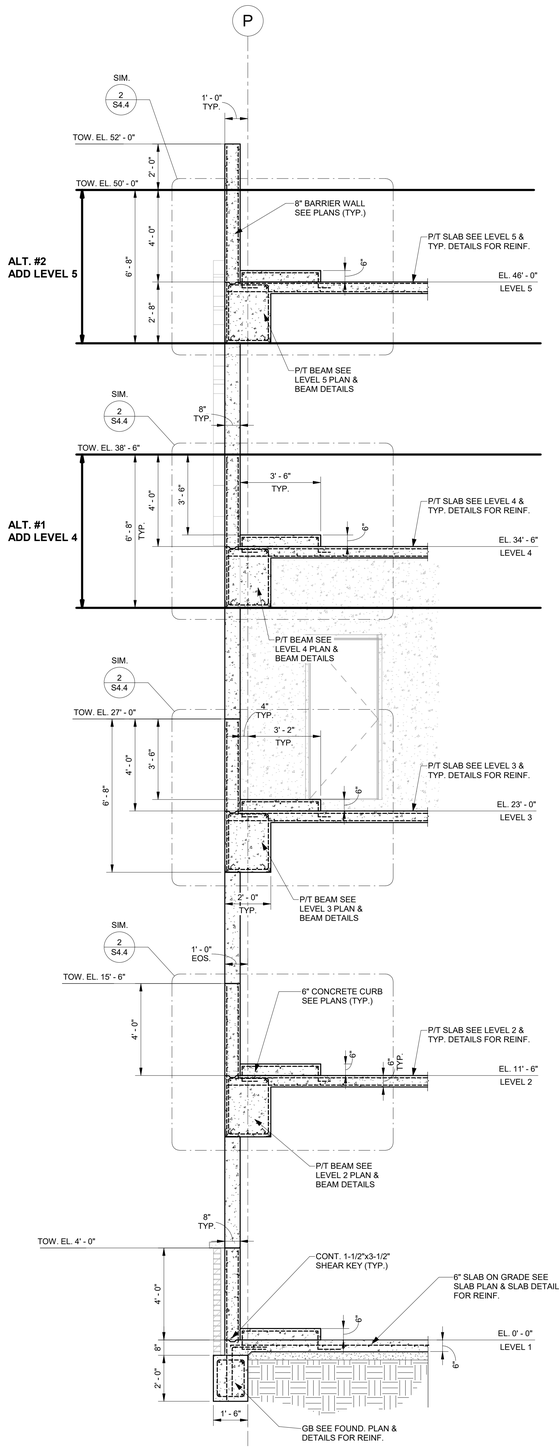
WALL SECTIONS

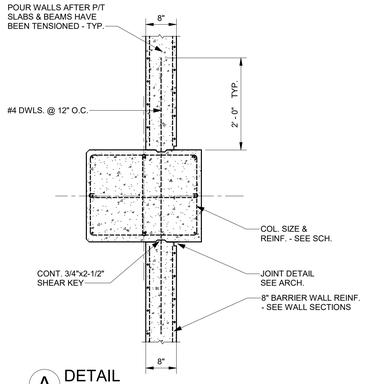
S4.1

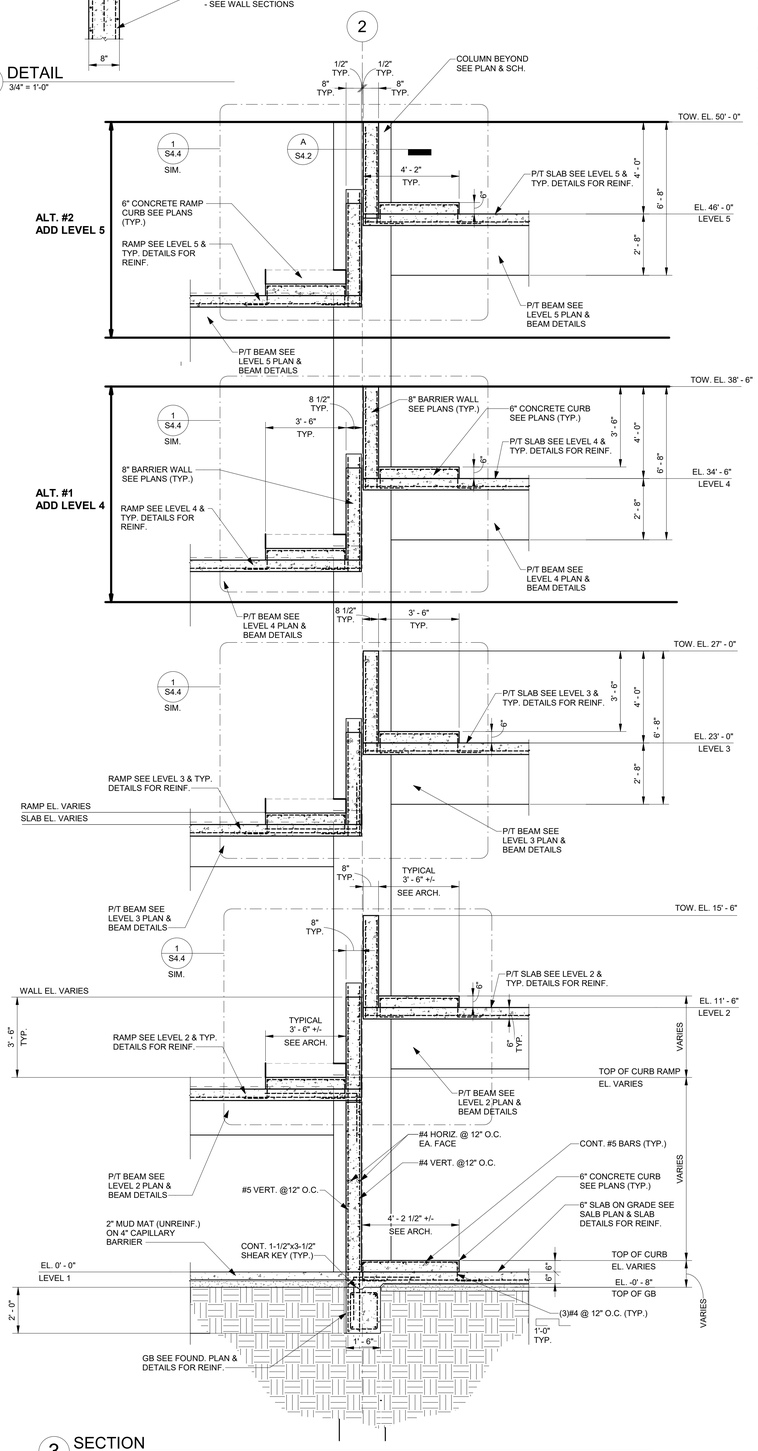


1 SECTION
3/8" = 1'-0"



2 SECTION
3/8" = 1'-0"





3 SECTION
3/8" = 1'-0"

GENERAL NOTE:

DRIP EDGES, REVEALS, AND GROOVES FOR CONCRETE WALLS AND OTHER CONCRETE MEMBERS MAY NOT BE EXPLICITLY SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURE DESIGN DRAWINGS FOR LOCATIONS & SIZE OF SUCH ITEMS.

ALTERNATE NOTE:

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WHLC ARCHITECTURE

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North Oaks Health System

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Hammond, Louisiana

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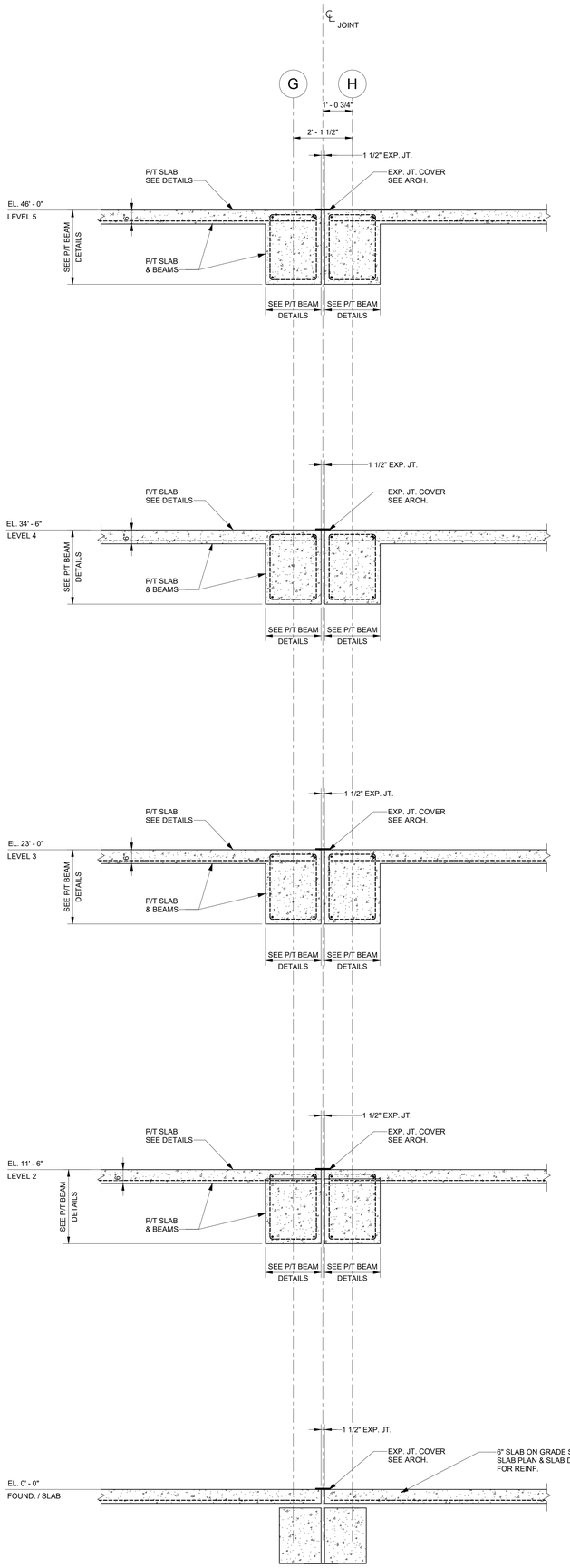
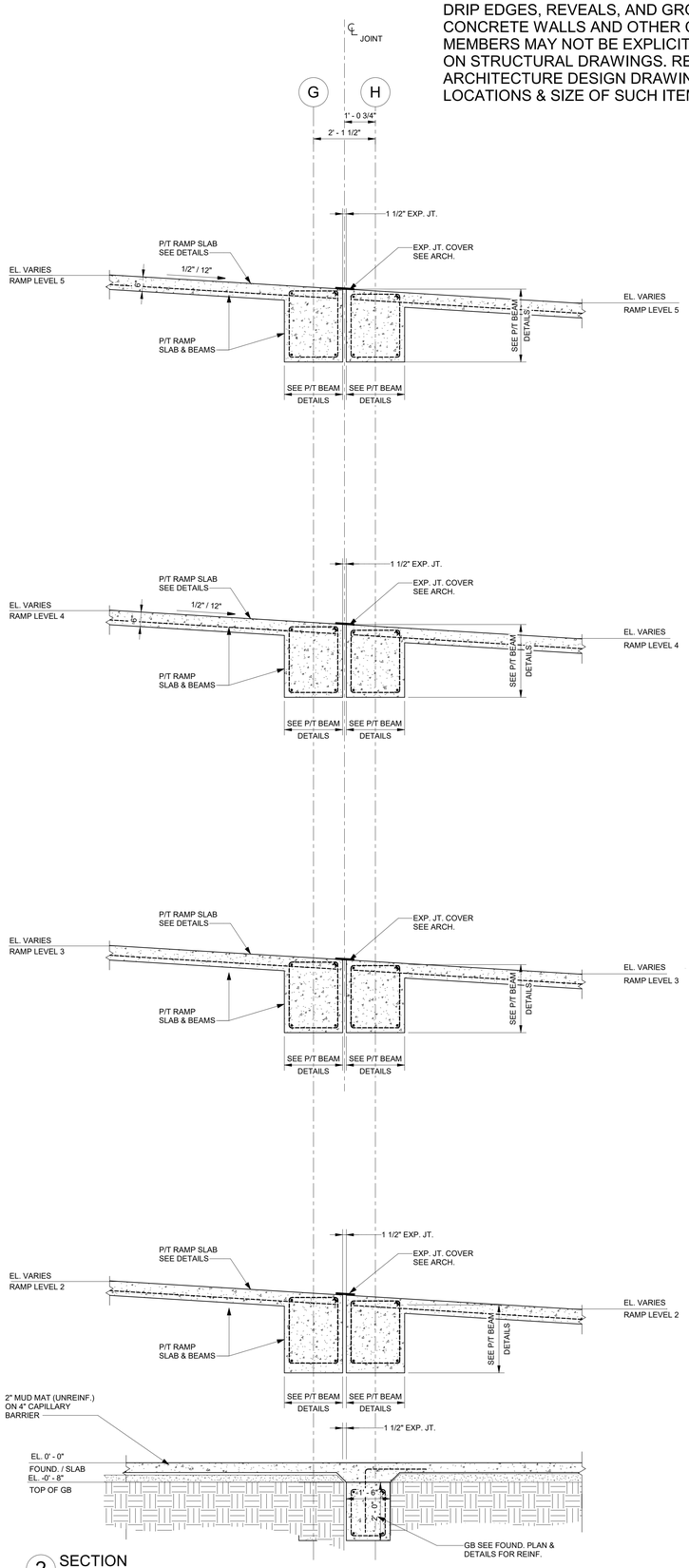
WALL SECTIONS

S4.2



1 SECTION
1/2" = 1'-0"



2 SECTION
1/2" = 1'-0"

GENERAL NOTE:

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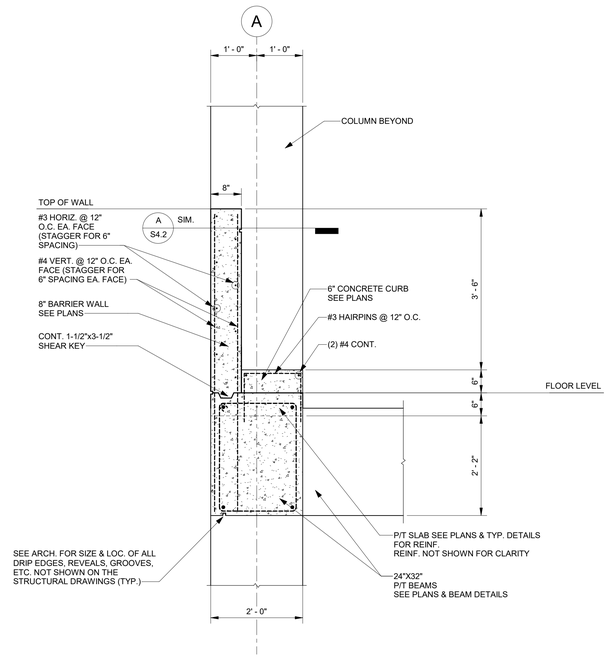
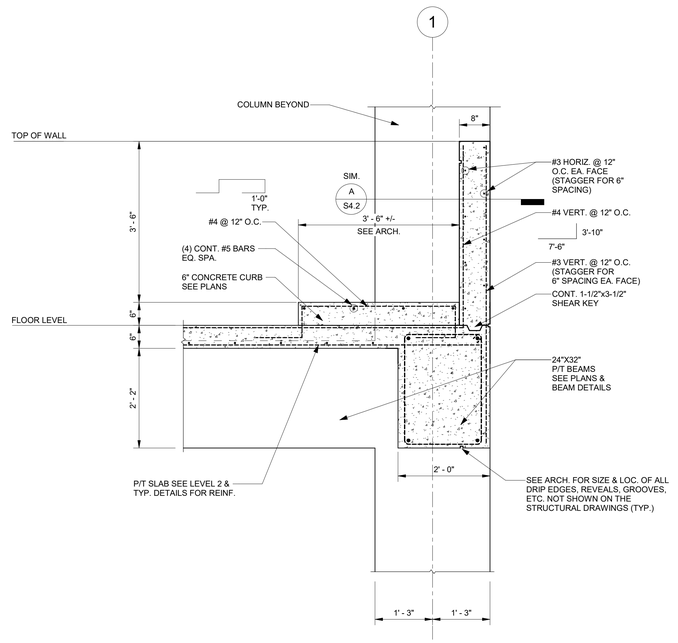


4 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

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WALL SECTIONS

S4.3

GENERAL NOTE:

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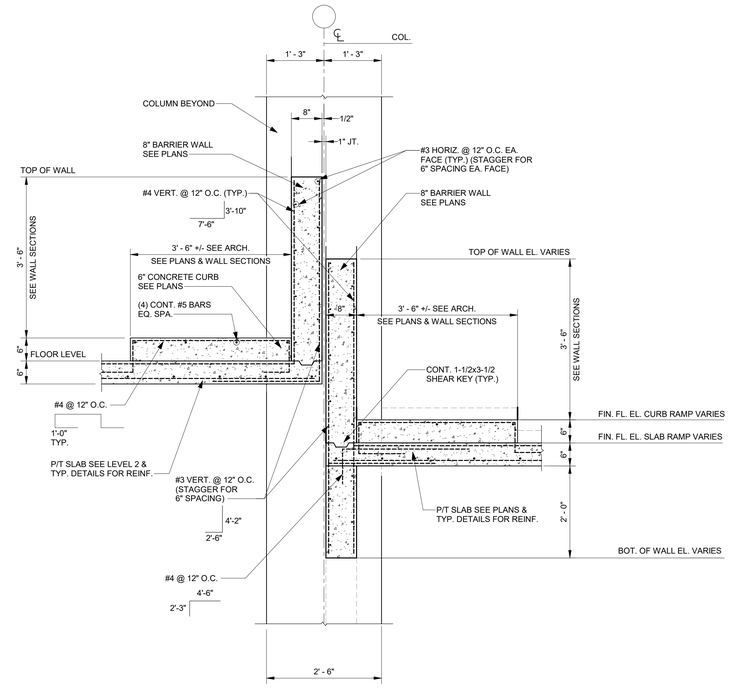
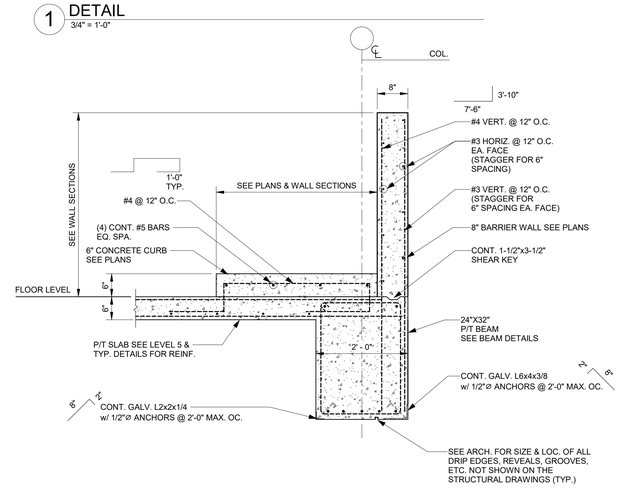
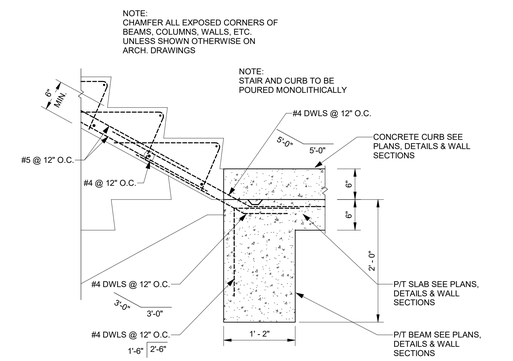


1 DETAIL
3/4" = 1'-0"



2 DETAIL
3/4" = 1'-0"



3 DETAIL
1" = 1'-0"

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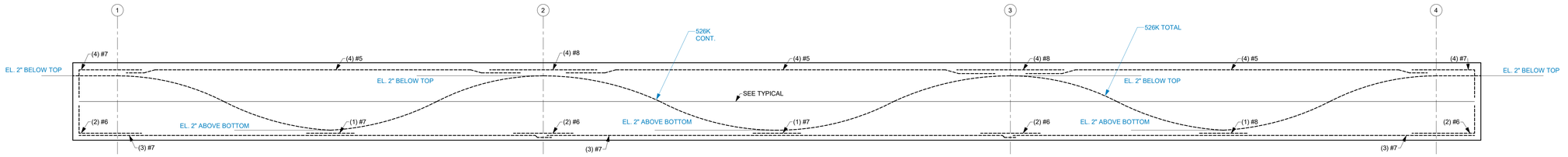
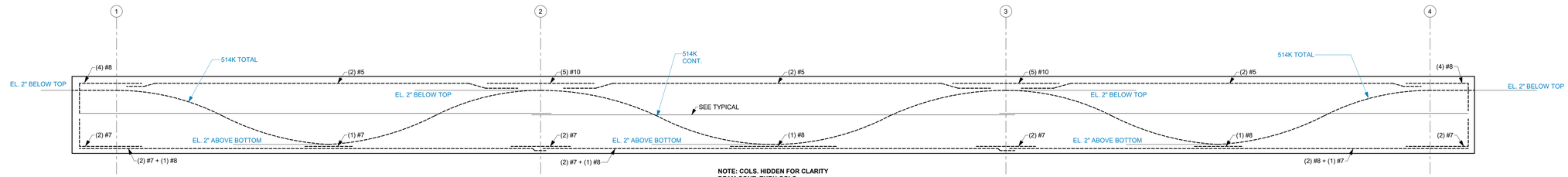
ENLARGED DETAILS

S4.4



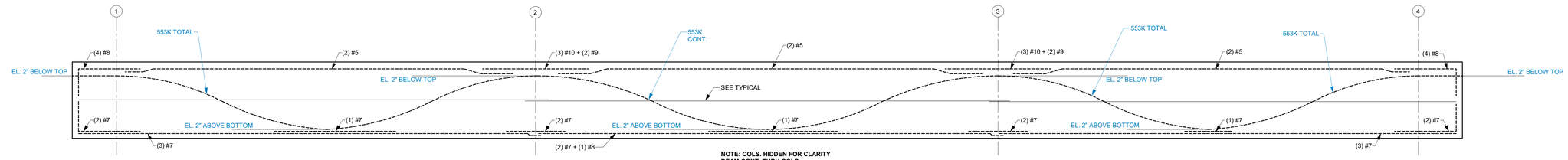
NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

BM-1 GRID A & P (EDGE BEAMS) - LEVEL 2 TO 5 - 24"W x 32"H
3/4" = 1'-0"



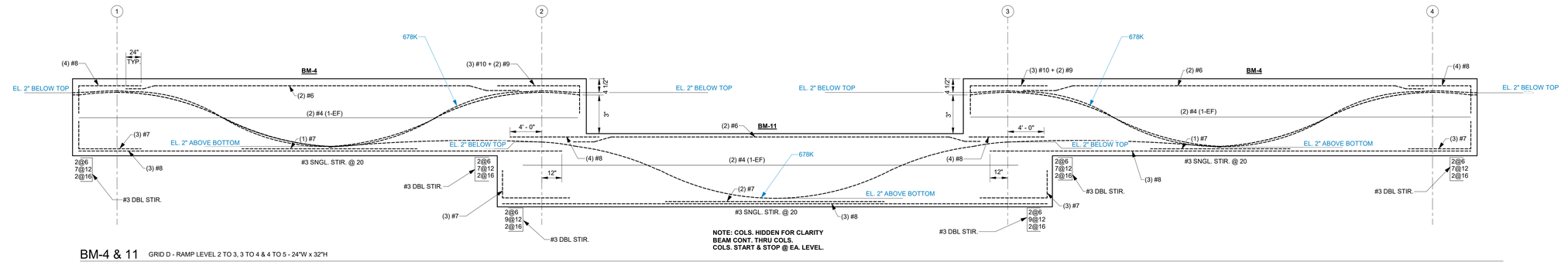
NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

BM-2 GRID B & N - LEVEL 2 TO 5 - 24"W x 32"H
3/4" = 1'-0"



NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

BM-3 GRID C - LEVEL 2 TO 5 - 24"W x 32"H
3/4" = 1'-0"



NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

BM-4 & 11 GRID D - RAMP LEVEL 2 TO 3, 3 TO 4 & 4 TO 5 - 24"W x 32"H
3/4" = 1'-0"

WHLC ARCHITECTURE

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North Oaks Health System

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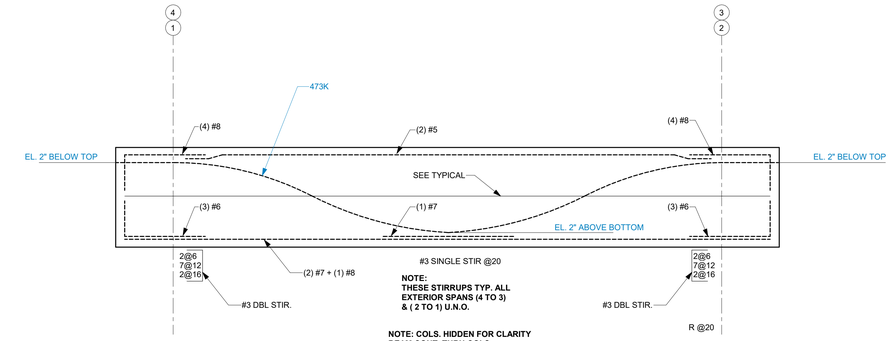
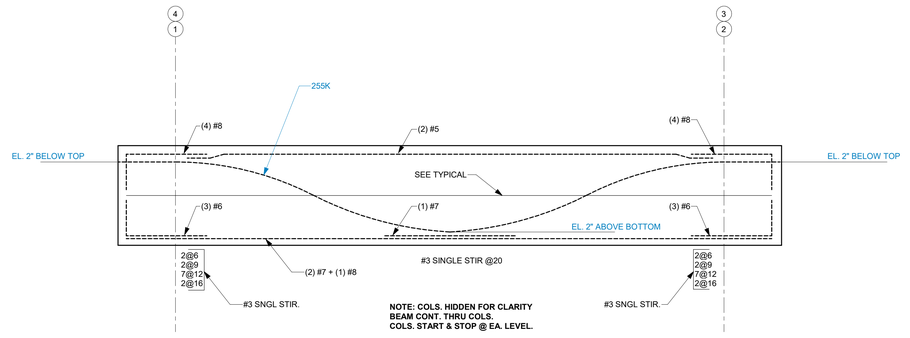
LVL 2-5 P/T BEAM DETAILS

S5.1



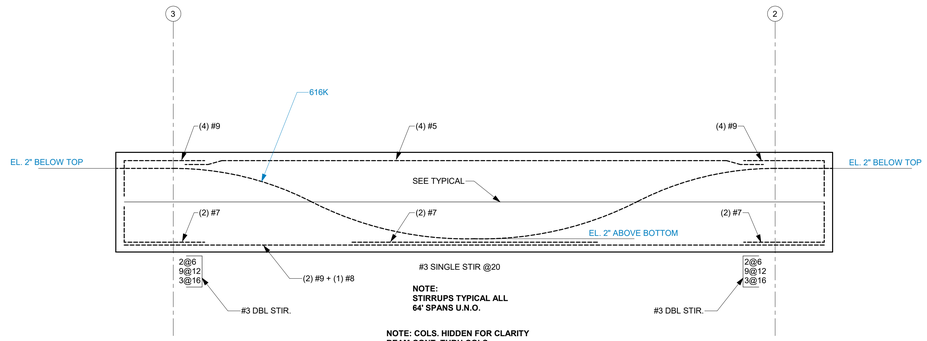
BM-5 GRID E, F, J & K - LEVEL 2, 3, 4 & 5 - 24"W x 32"H

3/4" = 1'-0"



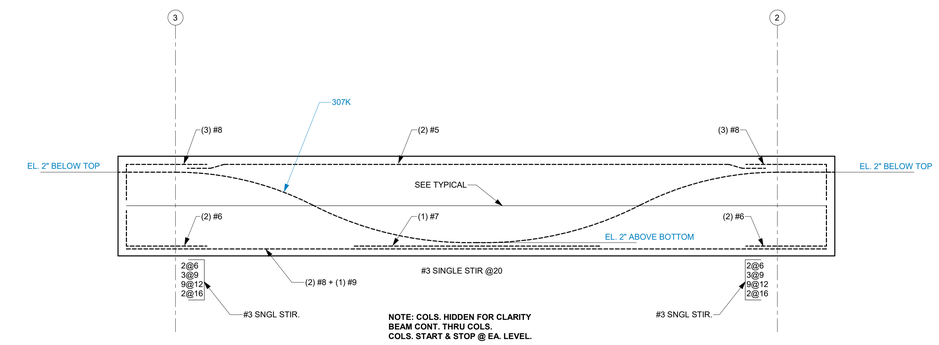
BM-8 GRID G & H - LEVEL 2, 3, 4 & 5 - 24"W x 32"H

3/4" = 1'-0"



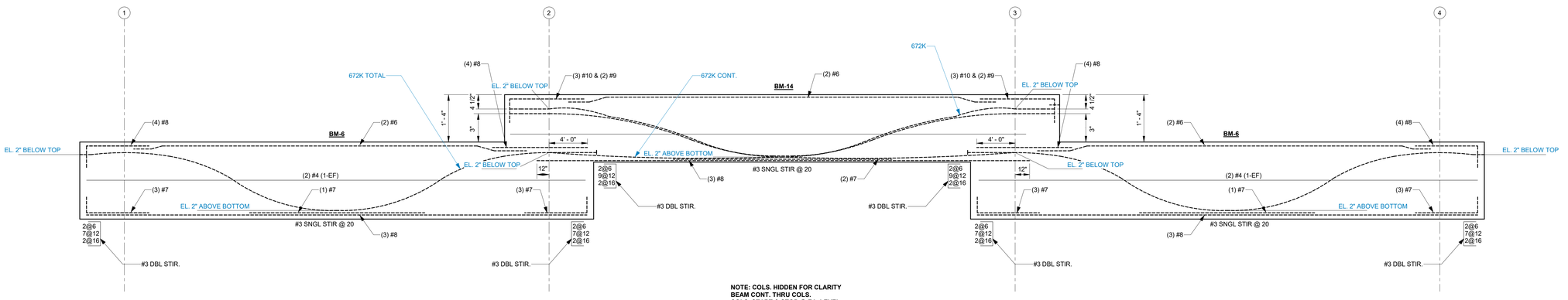
BM-12 GRID E, F, J & K - RAMP LEVEL 2 TO 3, LEVEL 3 TO 4, & LEVEL 4 TO 5 - 24"W x 32"H

3/4" = 1'-0"



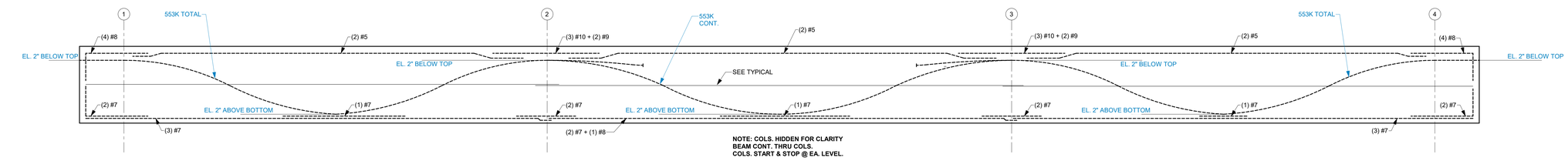
BM-13 GRID G & H - RAMP LEVEL 2 TO 3, LEVEL 3 TO 4, & LEVEL 4 TO 5 - 24"W x 32"H

3/4" = 1'-0"



BM-6 & 14 GRID L - RAMP LEVEL 2 TO 3, 3 TO 4 & 4 TO 5 - 24"W x 32"H

3/4" = 1'-0"



BM-7 GRID M - LEVEL 2 TO 5 - 24"W x 32"H

3/4" = 1'-0"

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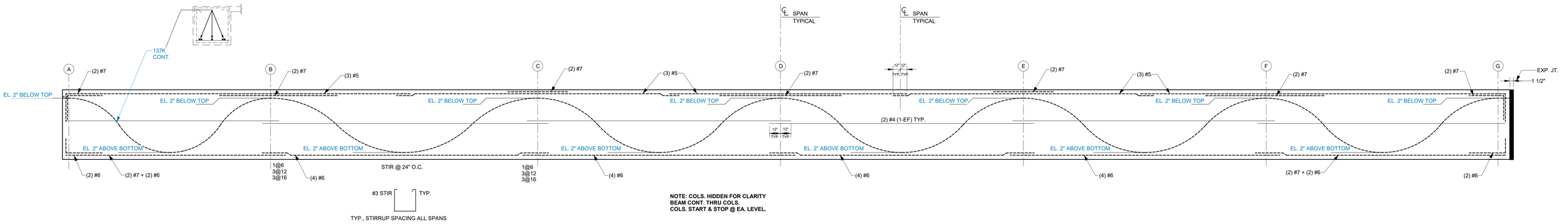
LVL 2-5 P/T BEAM DETAILS

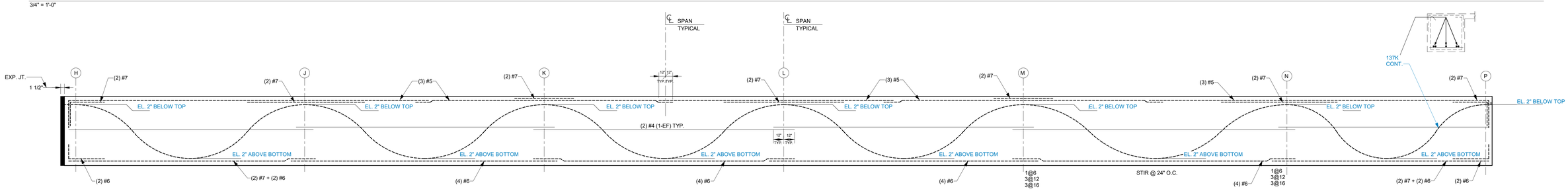
S5.2



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

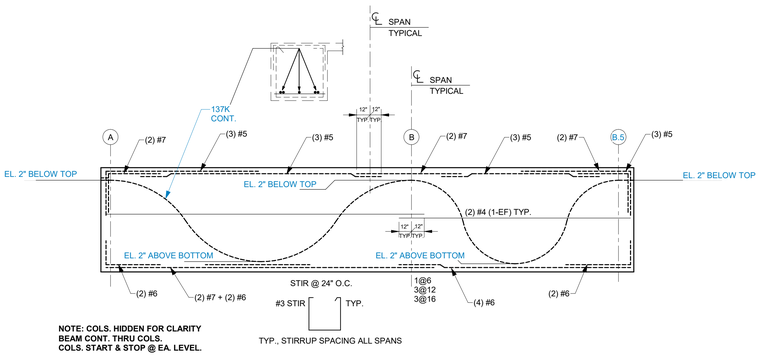
BM-9
GRID 1 - LEVEL 2 - 5 - 24"W x 32"H
3/4" = 1'-0"



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

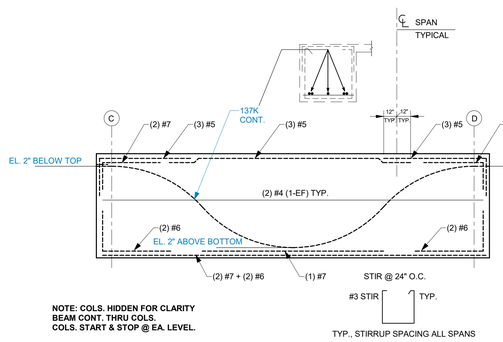
BM-9
GRID 1 - LEVEL 2 - 5 - 24"W x 32"H
3/4" = 1'-0"



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

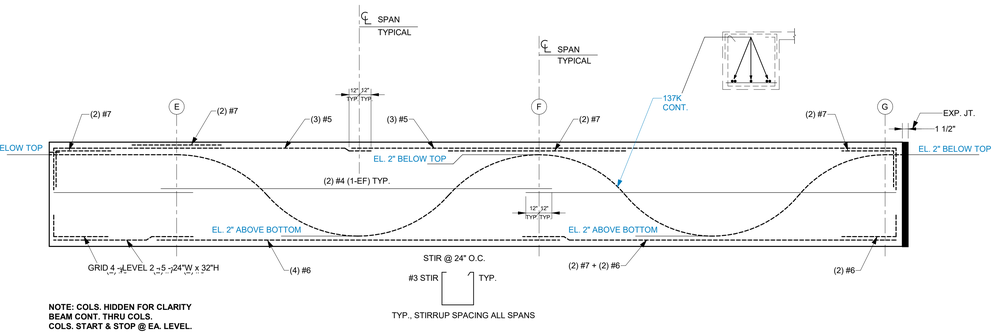
BM-10
GRID 4 - LEVEL 2 - 5 - 24"W x 32"H
3/4" = 1'-0"



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

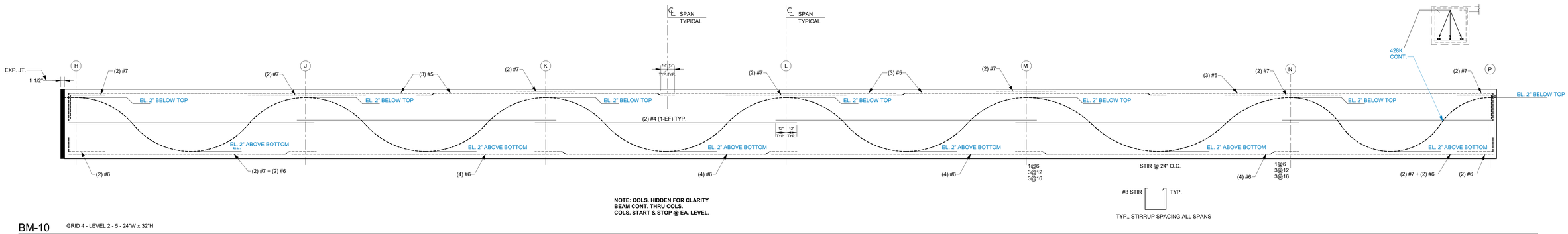
BM-10
GRID 4 - LEVEL 2 - 5 - 24"W x 32"H
3/4" = 1'-0"



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
BEAM CONT. THRU COLS.
COLS. START & STOP @ EA. LEVEL.

BM-10
3/4" = 1'-0"



TYP., STIRRUP SPACING ALL SPANS

NOTE: COLS. HIDDEN FOR CLARITY
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COLS. START & STOP @ EA. LEVEL.

BM-10
GRID 4 - LEVEL 2 - 5 - 24"W x 32"H
3/4" = 1'-0"

WHLC ARCHITECTURE

STATE OF LOUISIANA
JAMES R. LeBOEUF
License No. 35008
PROFESSIONAL ENGINEER
IN
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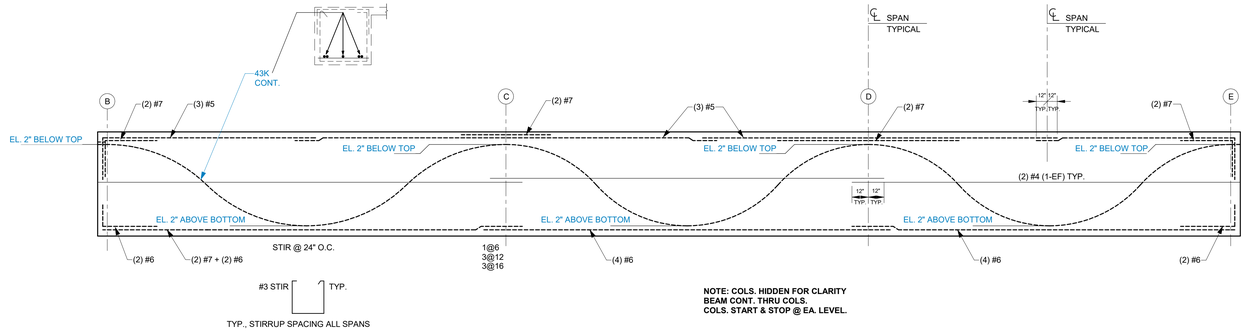
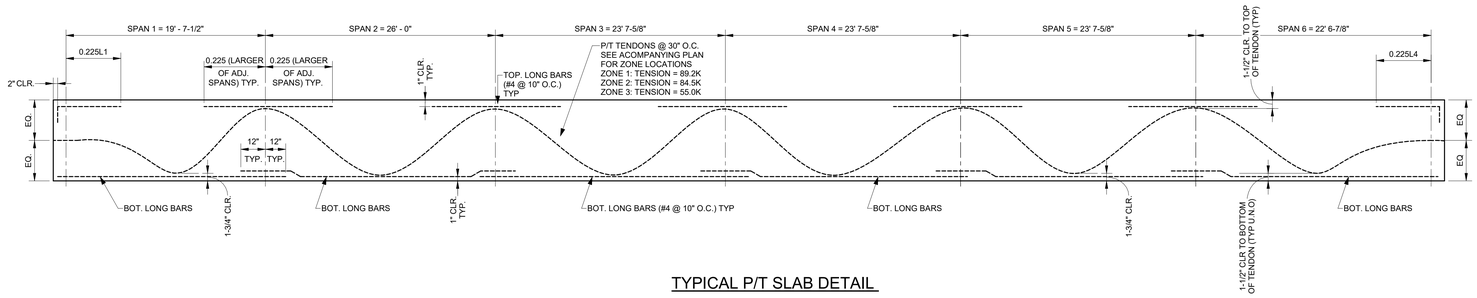
LVL 2-5 P/T BEAM DETAILS

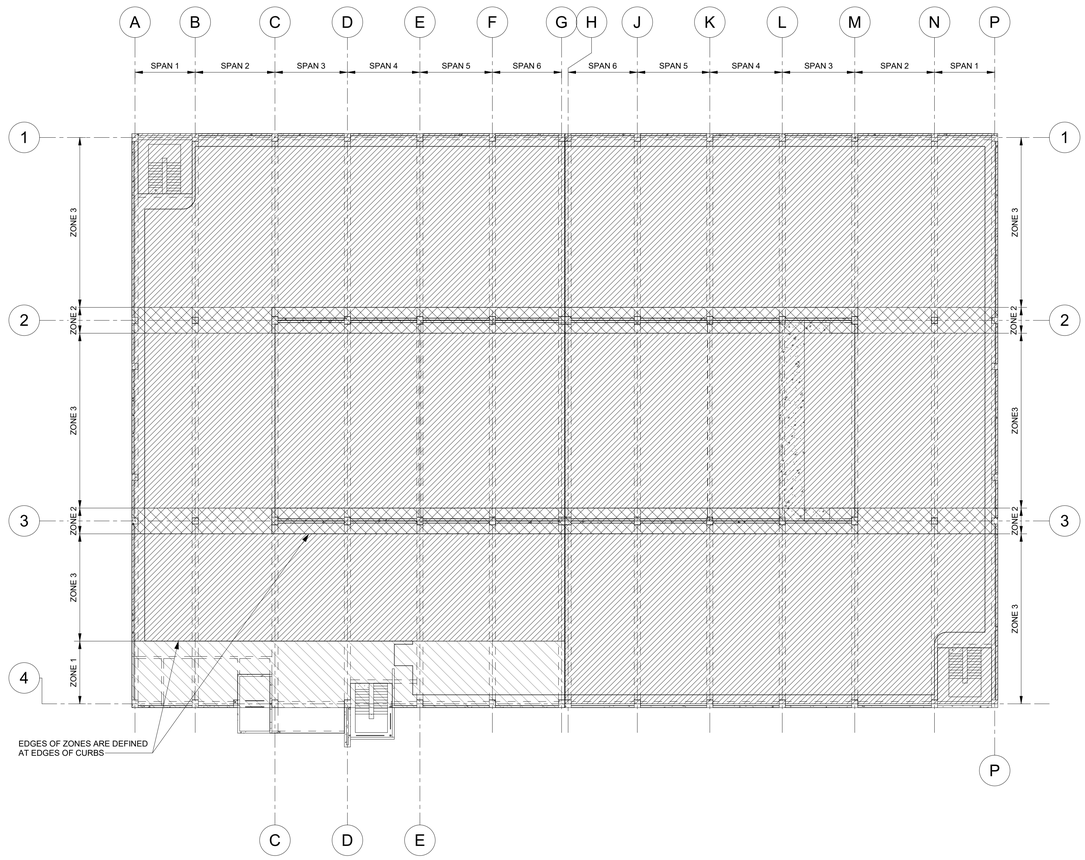
S5.3



BM-15 LEVEL 3 - 5 - 14"W x 24"H
3/4" = 1'-0"



TYPICAL P/T SLAB DETAIL



PT SLAB ZONES
1" = 20'-0"

WHLC ARCHITECTURE

STATE OF LOUISIANA
JAMES R. LeBOEUF
License No. 35008
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
09-09-2026

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

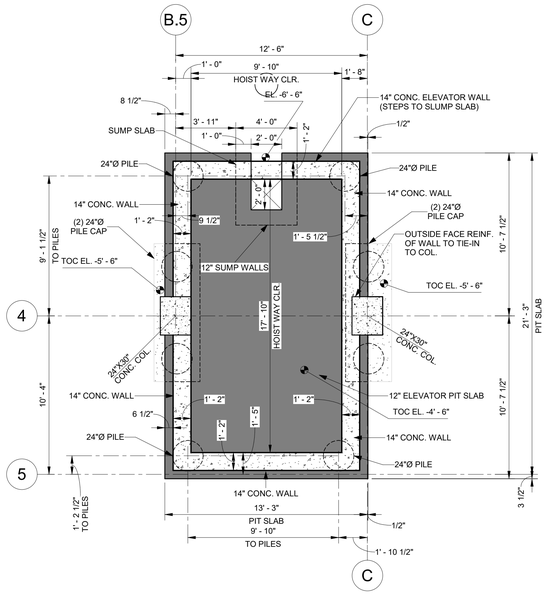
Hammond, Louisiana

washer hill lipscomb cabanias architecture, llc
copyright 2023
1744 oakdale dr baton rouge, la
t. 225.767.1530 f. 225.767.0018
www.whlcarchitecture.com

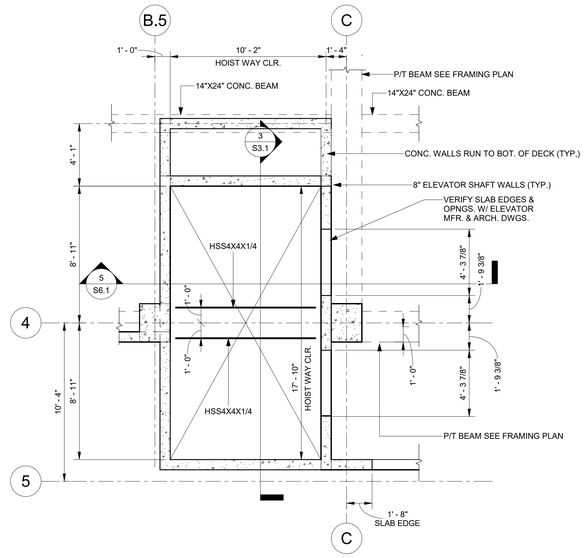
CONSTRUCTION DOCUMENTS
09-09-2026
26-020

LVL 3-5 P/T BEAM & SLAB DETAIL

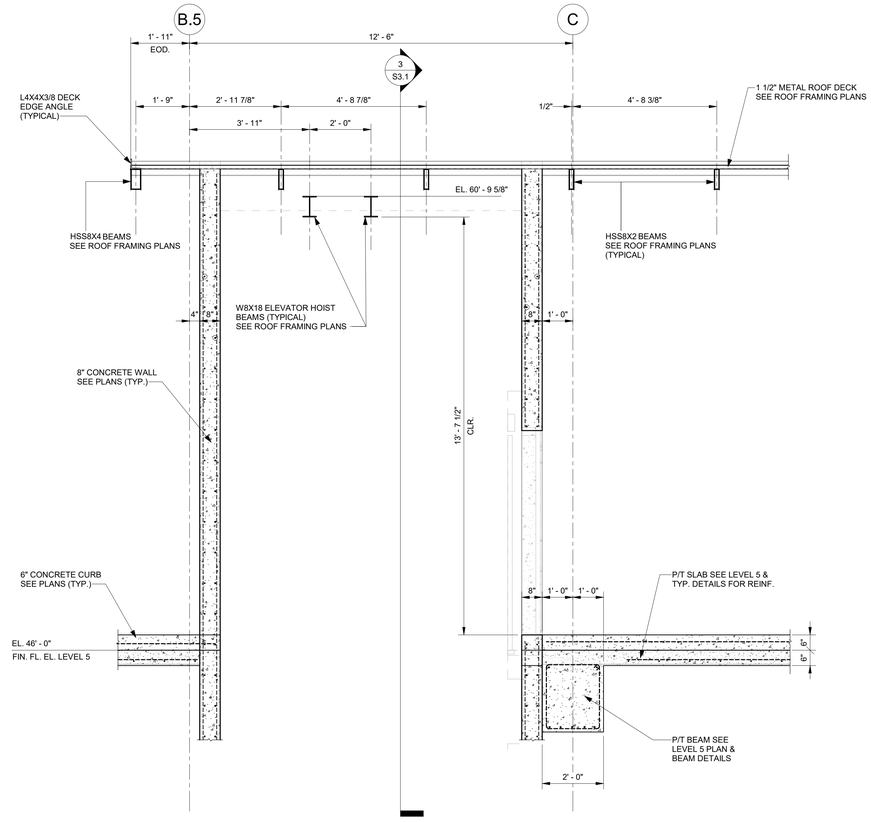
S5.4



1 ELEVATOR - FOUNDATION PIT PLAN
1/4" = 1'-0"

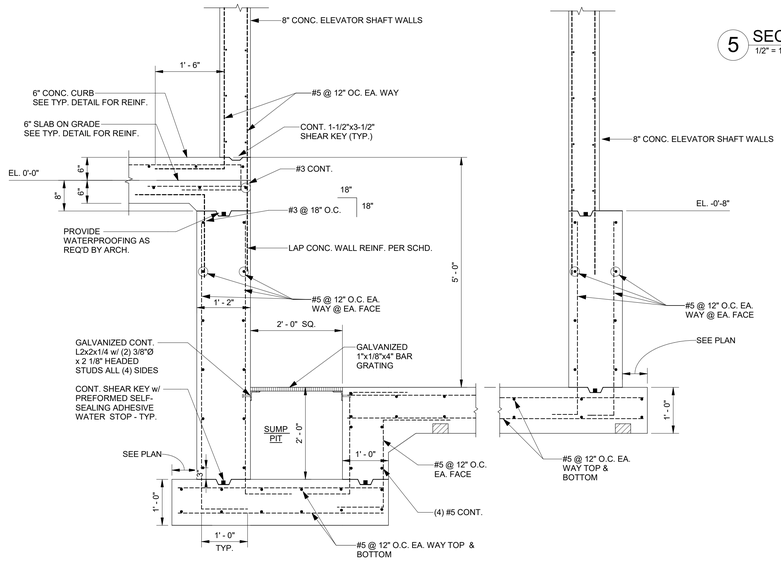


4 ELEVATOR - TOP LEVEL FRAMING PLAN
1/4" = 1'-0"



2 ELEVATOR - SLAB PLAN
1/4" = 1'-0"

3 ELEVATOR - INTERMEDIATE LEVELS FRAMING PLAN
1/4" = 1'-0"



TYPICAL ELEVATOR PIT DETAIL

5 SECTION
1/2" = 1'-0"

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR # 2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE

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ENLARGED ELEVATOR PLANS

S6.1

ALTERNATE NOTE:

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DRAINAGE NOTE:

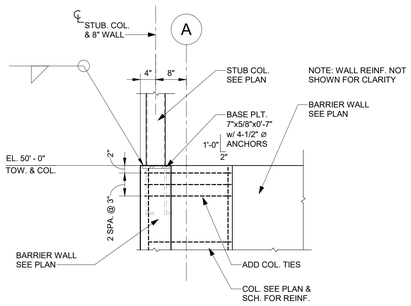
FOR DRAINAGE AND SLOPE OF CONCRETE SLABS REF. ARCHITECTURE DESIGN DOCUMENTS. ALL TOC. ELS. GIVEN BY ARCH. DOCUMENTS TO SUPERSEDE STRUCTURAL DOCUMENTS.

STAIR NOTES:

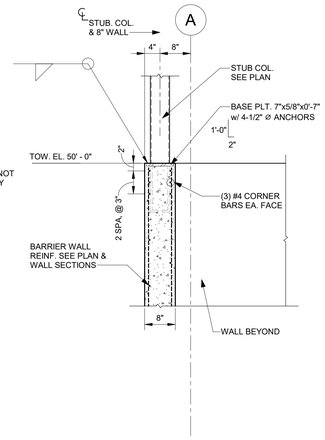
REF. ARCH FOR TOE/WP. DIMENSIONS.

CONCRETE CURB NOTE:

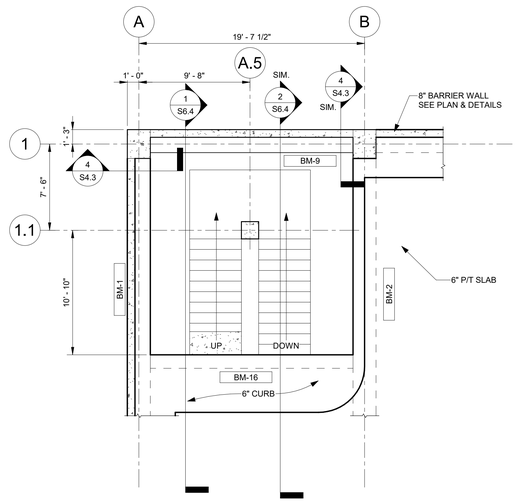
FOR EXACT LAYOUT AND GEOMETRY OF 6" CONCRETE CURBS REFER TO ARCHITECTURE DESIGN DOCUMENTS. ALL SLAB EDGES GIVEN BY ARCH. FOR CONCRETE CURB TO SUPERSEDE STRUCTURAL DOCUMENTS. DIMENSIONS PROVIDED ARE REFERENCE ONLY.



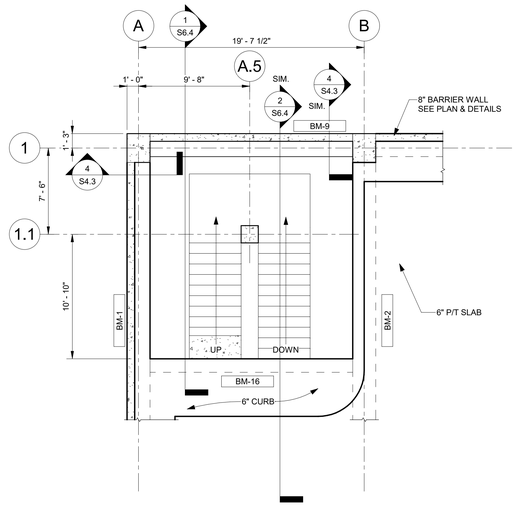
A DETAIL
3/4" = 1'-0"



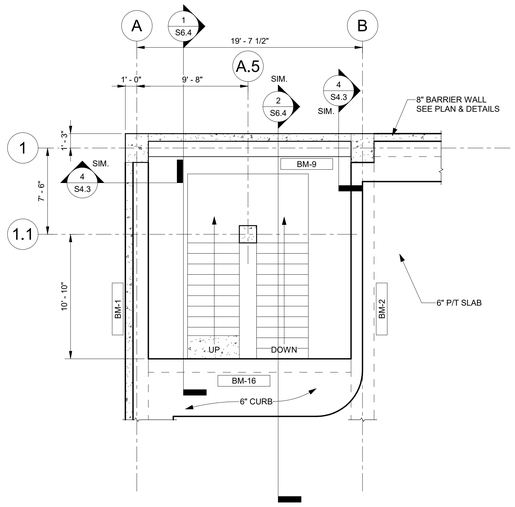
B SECTION
3/4" = 1'-0"



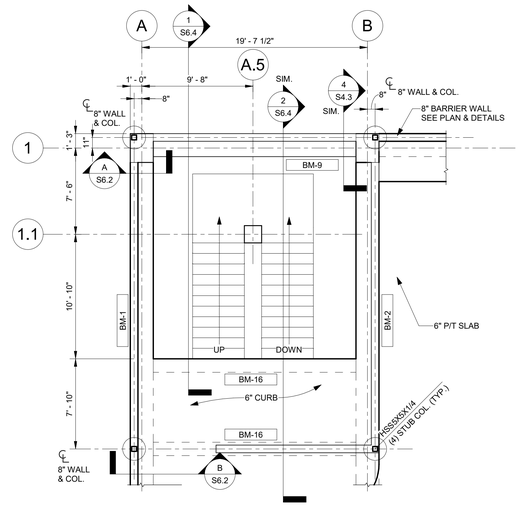
LEVEL 2 FRAMING PLAN - ENLG. STAIR 1
3/16" = 1'-0"



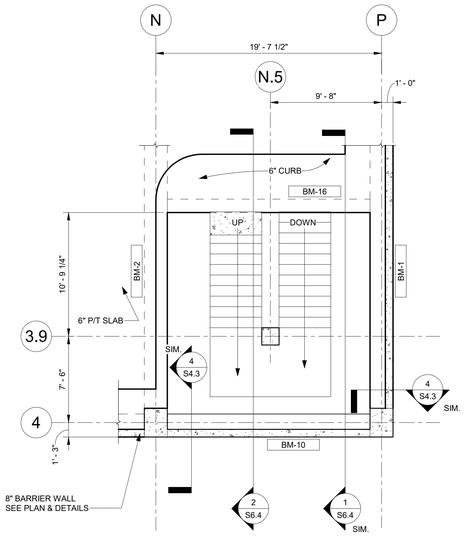
LEVEL 3 FRAMING PLAN - ENLG. STAIR 1
3/16" = 1'-0"



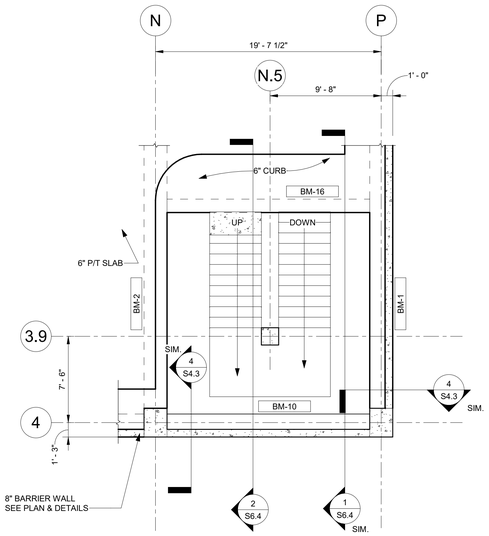
LEVEL 4 FRAMING PLAN (ALTERNATE #1) - ENLG. STAIR 1
3/16" = 1'-0"



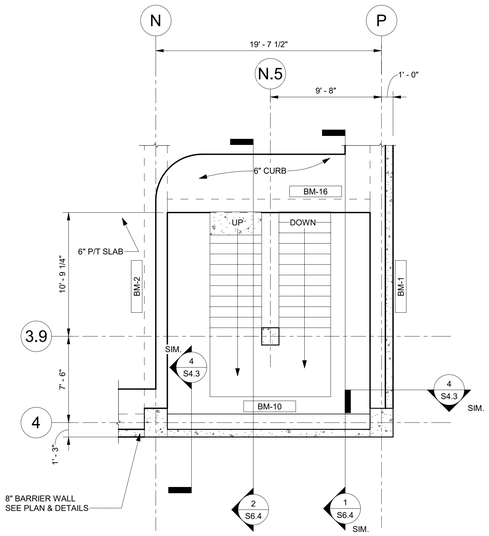
LEVEL 5 FRAMING PLAN (ALTERNATE #2) - ENLG. STAIR 1
3/16" = 1'-0"



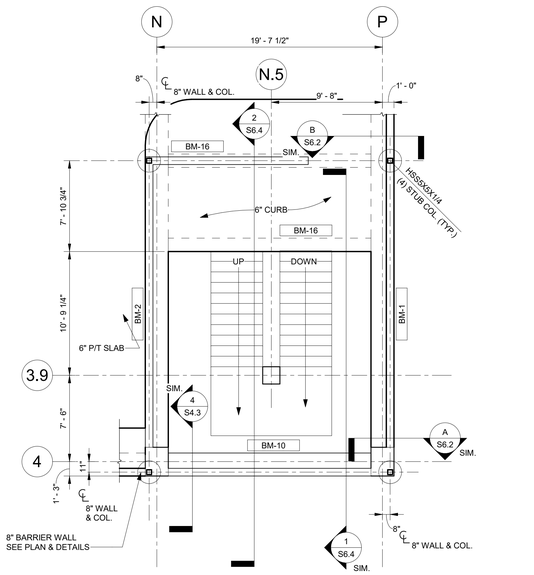
LEVEL 2 FRAMING PLAN - ENLG. STAIR 2
3/16" = 1'-0"



LEVEL 3 FRAMING PLAN - ENLG. STAIR 2
3/16" = 1'-0"



LEVEL 4 FRAMING PLAN (ALTERNATE #1) - ENLG. STAIR 2
3/16" = 1'-0"



LEVEL 5 FRAMING PLAN (ALTERNATE #2) - ENLG. STAIR 2
3/16" = 1'-0"

WHLC ARCHITECTURE

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09-09-2026
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ENLARGED STAIR PLANS

S6.2

ALTERNATE NOTE:

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DRAINAGE NOTE:

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STAIR NOTES:

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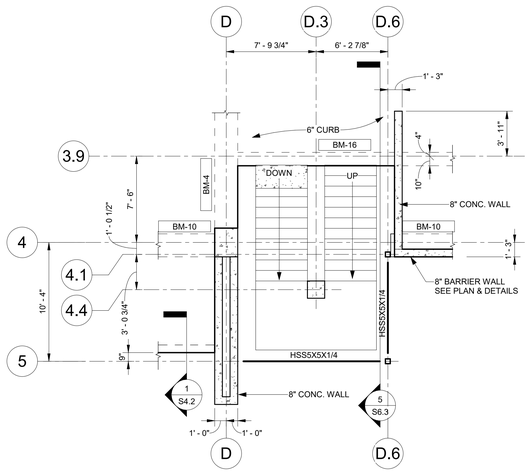
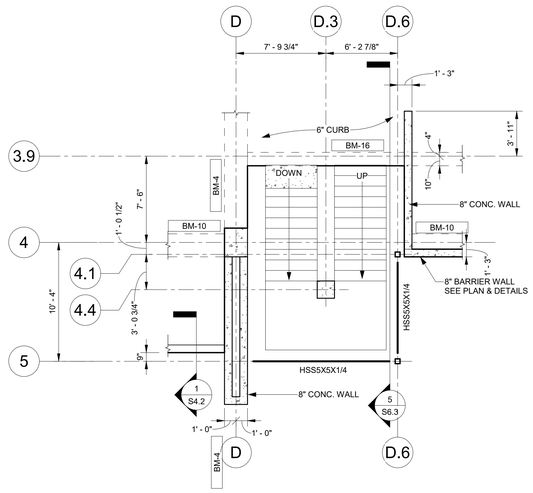
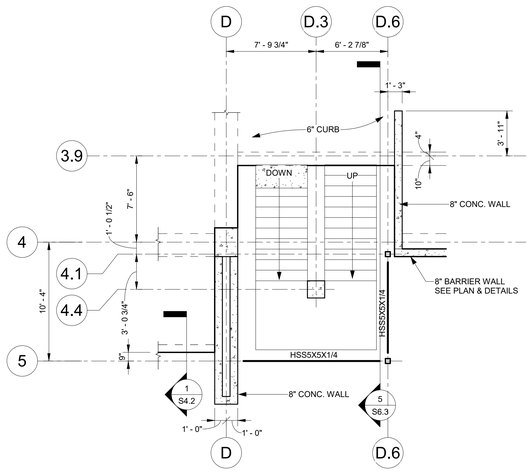


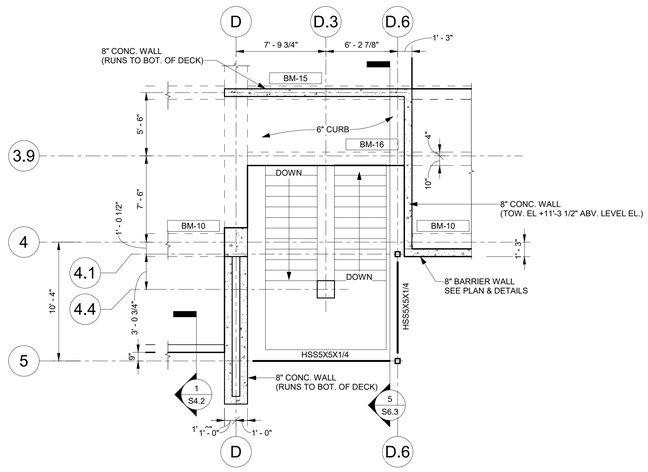
LEVEL 2 FRAMING PLAN - ENLARGED STAIR 3
3/16" = 1'-0"



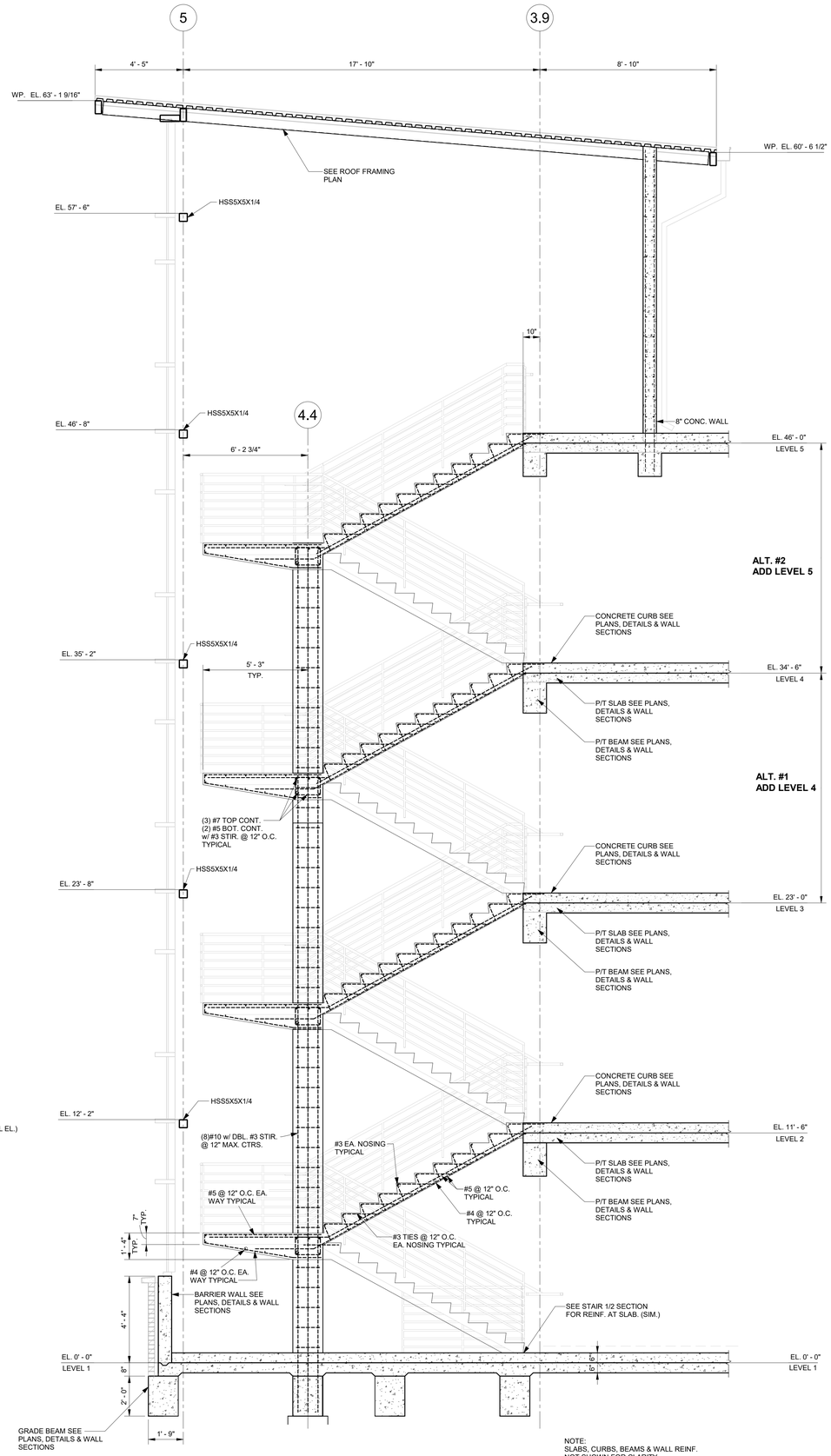
LEVEL 4 FRAMING PLAN (ALTERNATE #1) - STAIR 3
3/16" = 1'-0"



LEVEL 3 FRAMING PLAN - ENLARGED STAIR 3
3/16" = 1'-0"



LEVEL 5 FRAMING PLAN (ALTERNATE #2)/TOP LEVEL - STAIR 3
3/16" = 1'-0"



5 SECTION
3/8" = 1'-0"

WHLC ARCHITECTURE

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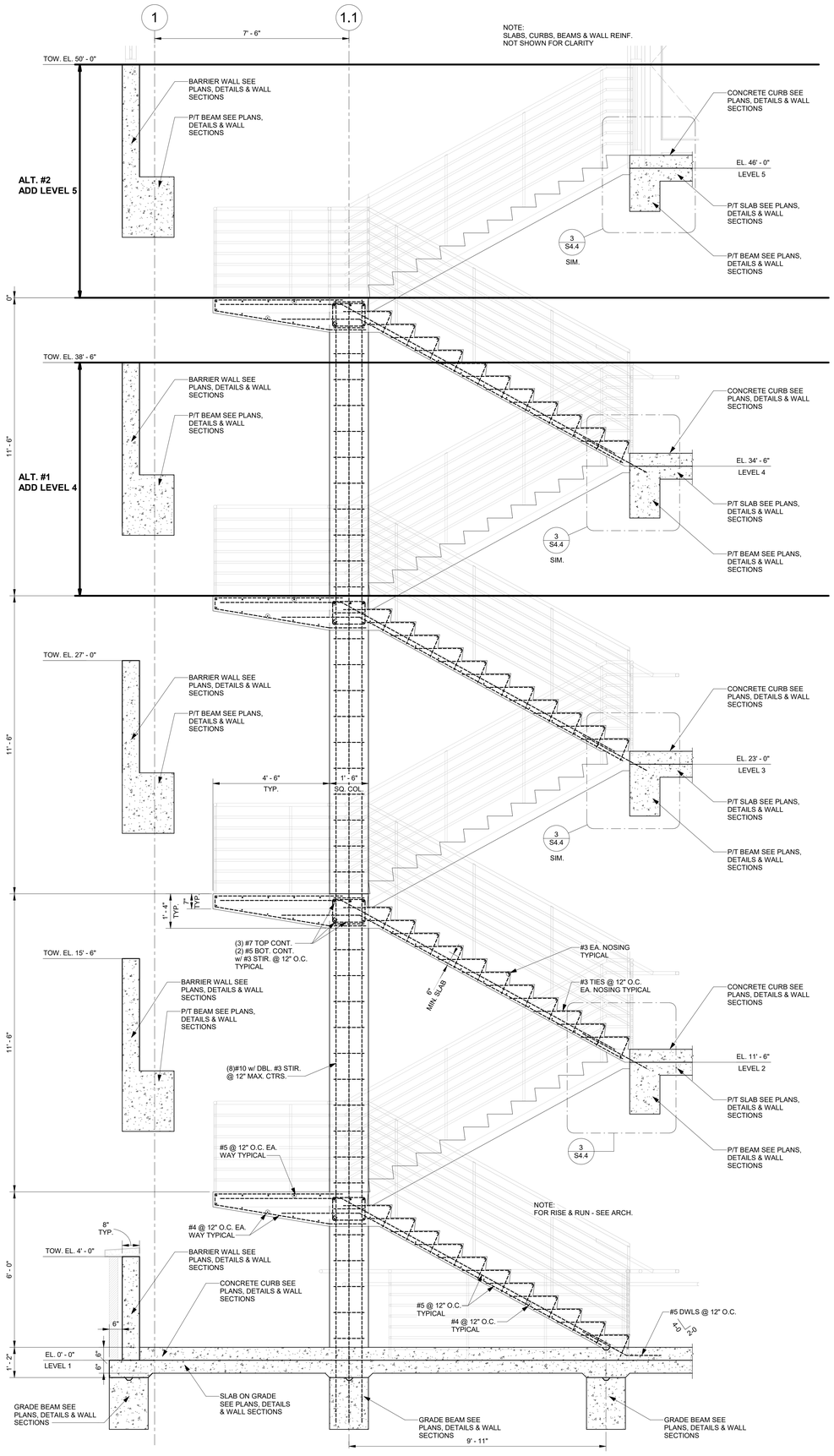
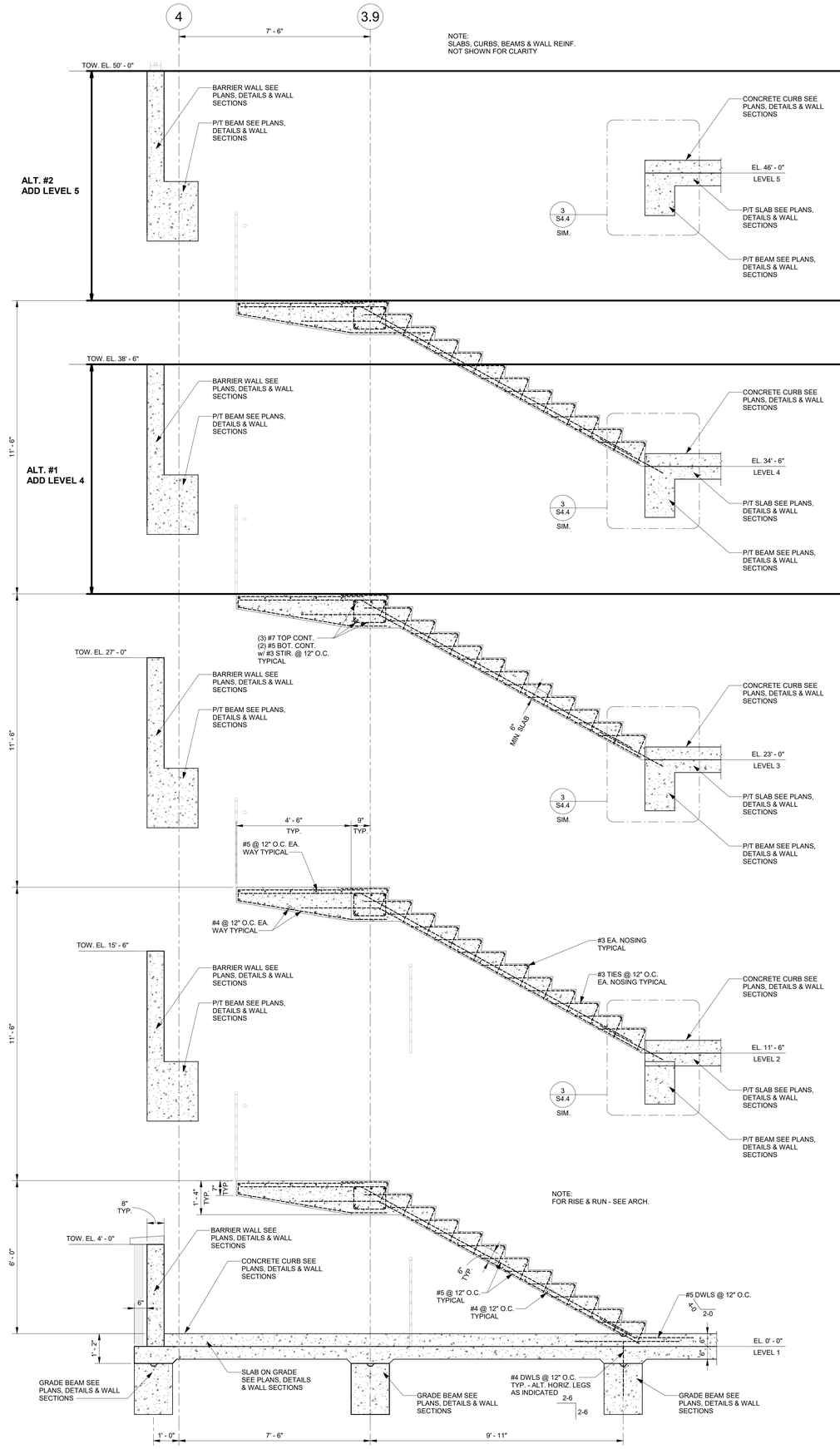
CONSTRUCTION DOCUMENTS
09-09-2026
26-020

ENLARGED STAIR PLANS/SECTIONS

S6.3



1 SECTION
1/2" = 1'-0"



2 SECTION
1/2" = 1'-0"

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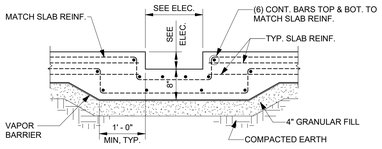
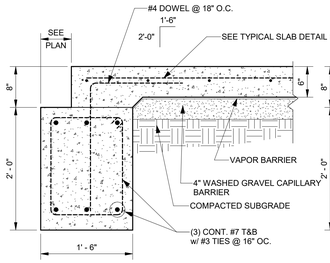
STAIR SECTIONS

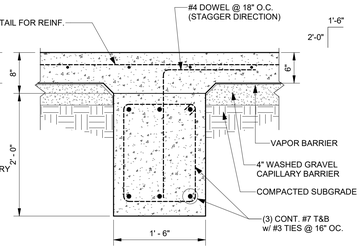
S6.4



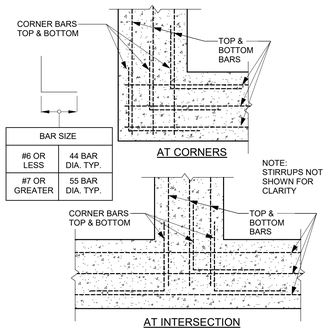
TYPICAL TRENCH DETAIL



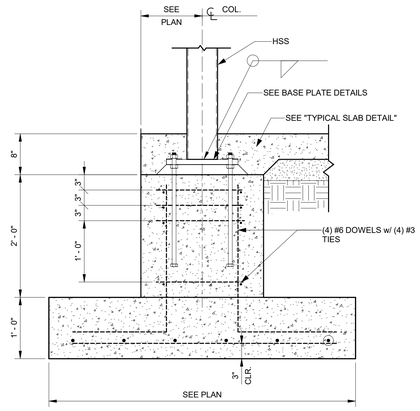
EXTERIOR GRADE BEAM DETAIL



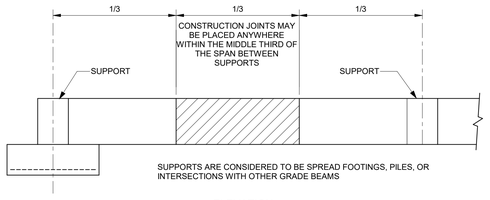
INTERIOR GRADE BEAM DETAIL



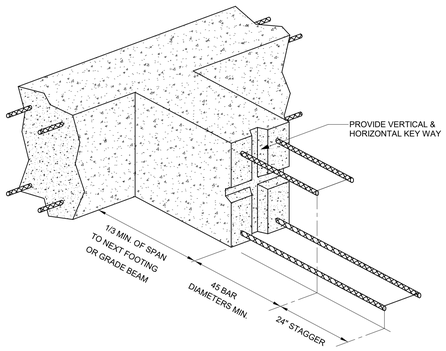
TYPICAL BEAM REINFORCING DETAIL



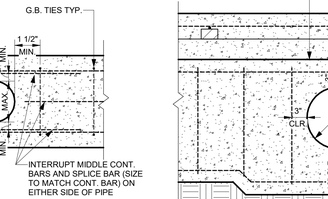
TYPICAL EXTERIOR TUBE COLUMN FOOTING DETAIL



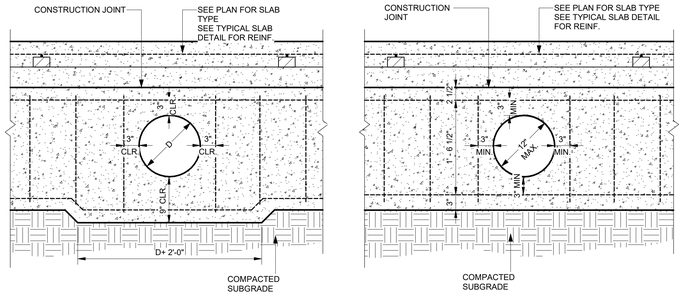
ELEVATION



TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL



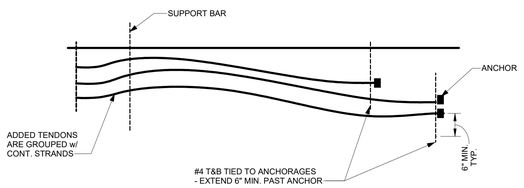
TYPICAL GRADE BEAM VERTICAL PIPE PENETRATION DETAIL



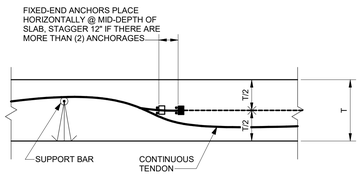
GREATER THAN 12" PIPE

12" OR SMALLER PIPE

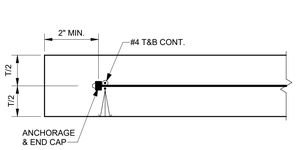
TYPICAL GRADE BEAM HORIZONTAL PIPE PENETRATION DETAIL



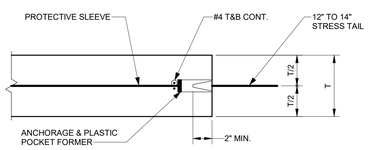
PLAN VIEW



ELEVATION VIEW



FIXED END



STRESSING END

SLAB TENDON ANCHORAGE TYPICAL DETAIL

ADDED TENDON ANCHORAGE TYPICAL DETAIL

SOIL AND FOUNDATION NOTES:

1. THIS FOUNDATION DESIGN WAS BASED ON AND IS RELIANT UPON THE GEOTECHNICAL INVESTIGATION FOR THIS PROJECT AS PREPARED BY
2. STRICT ADHERENCE TO THIS PLAN AND GEOTECHNICAL REPORT RECOMMENDATIONS IS REQUIRED. A COPY OF THEIR REPORT IS AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW.
3. UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT, ALL FILL AND BACKFILL UNDER THE BUILDING AND FIVE FEET BEYOND THE BUILDING FOUNDATION SHALL BE SELECT MATERIAL COMPACTED TO WITHIN 95% OF THE STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
4. UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT, ALL FILL AND BACKFILL MATERIAL SHALL HAVE A "CL" CLASSIFICATION WITH A LIQUID LIMIT LESS THAN 45 AND A PLASTICITY INDEX BETWEEN 8 AND 25.
5. EARTH FORMS ARE ACCEPTABLE PROVIDED THE SOIL IS FIRM ENOUGH TO MAINTAIN STABILITY OF THE EXCAVATIONS BEFORE AND DURING THE INSTALLATION OF CONCRETE.

DEEP FOUNDATION CAPACITY:

PILE TYPE = AUGER CAST PILES		
DIAMETER (IN)	LENGTH (FT)	CAPACITY (KIPS)
18	40	184
24	40	260

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE AND REINFORCING STEEL SHALL CONFORM TO THE LATEST ACI CODE.
2. UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE PLANS, ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
3. UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE PLANS, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
4. WHERE REINFORCING STEEL IS CALLED TO BE WELDED, WELDABLE REINFORCING STEEL SHALL BE USED.
5. PROVIDE ALL NECESSARY REINFORCING STEEL ACCESSORIES REQUIRED TO SECURELY HOLD THE REINFORCING STEEL IN THE POSITION SHOWN ON THESE PLANS.
6. ALL REINFORCING IN MEMBERS IN CONTACT WITH THE EARTH BUT NOT FORMED AGAINST EARTH SHALL HAVE A MINIMUM OF TWO (2) INCHES OF CONCRETE COVER.
7. ALL REINFORCING IN FACES OF MEMBERS FORMED AGAINST THE EARTH SHALL HAVE A MINIMUM OF THREE (3) INCHES OF CONCRETE COVER.
8. ALL REINFORCING BAR LAPS SHALL BE 44 BAR DIAMETERS FOR #6 OR SMALLER AND 55 BAR DIAMETERS FOR #7 OR LARGER. GRADE BEAM TOP BARS SHALL BE SPLICED WITHIN THE MIDDLE THIRD OF BEAM SPAN. GRADE BEAM BOTTOM BARS SHALL BE SPLICED AT BEAM SUPPORTS.

POST- INSTALLED ANCHOR NOTES:

1. ALL POST-INSTALLED ANCHORS SHALL HAVE A CODE REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION. THE CONTRACTOR SHALL INCLUDE THE CODE REPORT WITH THE POST-INSTALLED ANCHOR SUBMITTAL.
2. THE CONTRACTOR SHALL SUBMIT ANCHOR PRODUCT DATA IN ACCORDANCE WITH THE SUBMITTAL REQUIREMENTS CALLED FOR IN THE CONSTRUCTION DOCUMENTS. ANCHOR PRODUCT DATA SHALL INCLUDE ALLOWABLE ANCHOR SHEAR AND TENSILE FORCES FOR THE APPROPRIATE APPLICATION.
3. FOR ANCHORING INTO CONCRETE:
   A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193.
   B. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308.
4. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING AISC SPECIFICATIONS:
   WIDE FLANGE SHAPES: ASTM A992 GRADE 50
   CHANNEL, ANGLE, TEE & MISC. PLATES: ASTM A36
   TUBE STEEL: ASTM A500 GRADE B (46 KSI)
   PIPE: ASTM A53 GRADE B
5. THE CONTRACTOR SHALL CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER OF RECORD INDICATING TRAINING HAS TAKEN PLACE.
6. FOR ADHESIVE ANCHORS, ALL HOLES MUST BE CLEANED WITH A HOLE CLEANING BRUSH PRIOR TO THE INSTALLATION OF ADHESIVE. CLEAN HOLES PER MANUFACTURER'S RECOMMENDATIONS. CLEANING HOLES WITH AN AIR COMPRESSOR IS NOT ALLOWED.
7. POST-INSTALLED ANCHORS SHALL NOT BE PLACED IN CONCRETE THAT IS LESS THAN 7 DAYS OLD.

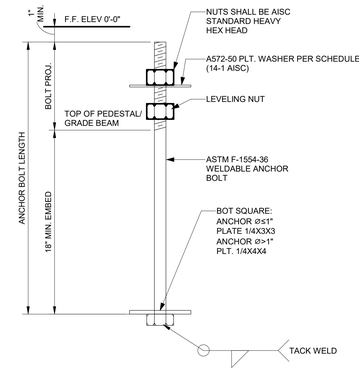
STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC SPECIFICATION.
2. STEEL JOISTS SHALL CONFORM TO THE LATEST VERSION OF THE SJI SPECIFICATIONS.
3. WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS CODE.
4. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING AISC SPECIFICATIONS:
   WIDE FLANGE SHAPES: ASTM A992 GRADE 50
   CHANNEL, ANGLE, TEE & MISC. PLATES: ASTM A 36
   TUBE STEEL: ASTM A500 GRADE B (46 KSI)
   PIPE: ASTM A53 GRADE B
5. VERIFY ALL DIMENSIONS, SIZES AND CONDITIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS OR FABRICATION OF STEEL.
6. ALL WELDS SHALL BE MADE WITH E70 ELECTRODES UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ALL OPENINGS. SEE TYPICAL ROOF OPENING DETAIL FOR REQUIRED FRAMING.
8. ANY STRUCTURAL STEEL ITEMS CALLED FOR IN THE CONSTRUCTION DOCUMENTS, OTHER THAN ON THE STRUCTURAL DRAWINGS, SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
9. ANY STRUCTURAL STEEL REQUIRED BY THE ELEVATOR SUB-CONTRACTOR NOT SHOWN ON THESE DRAWINGS SHALL BE PROVIDED BY THE ELEVATOR SUB-CONTRACTOR. THE PRICE OF THIS STRUCTURAL STEEL SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

BOLT SCHEDULE	
BEAM DEPTH	MIN. NO. BOLTS
8"-10"	2
12"-14"	3
16"	4
18"	5
21"	6
24"	7

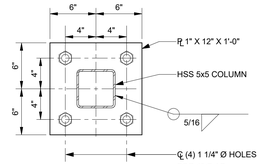
ROOF NOTES:

1. ROOF DECKS INDICATED ON THE DRAWINGS SHALL BE AS FOLLOWS:
   STEEL ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, TYPE "B" GALVANIZED METAL DECK (SEE SPECIFICATIONS)
2. ALL DECK TO BE CONTINUOUS OVER A MINIMUM OF 2 SPANS. SEE ALSO SPECIFICATIONS.
3. ALL ROOFS ARE DESIGNED WITH THE ASSUMPTION THAT IF THE PRIMARY DRAINS ARE STOPPED UP, THERE ARE ADEQUATE OVERFLOW SCUPPERS THAT WILL NOT ALLOW MORE THAN 4" OF WATER ON THE ROOFS. IF THERE ARE AREAS THAT DO NOT CONFORM TO THIS, IMMEDIATELY NOTIFY THE ARCHITECT SO THAT CORRECTIVE ACTION CAN BE TAKEN.



ANCHOR BOLT

ALL WASHERS UNO. SHALL BE PLAIN HARDENED STEEL FABRICATED IN ACCORDANCE WITH ASTM F436-04 STANDARD SPECIFICATION FOR HARDENED STEEL WASHERS.



HSS5X5 BASE PLATE - STANDARD

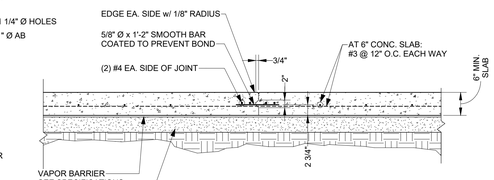
SUPERIMPOSED DESIGN LOADS:

1. LIVE LOADS
   FIRST FLOOR:
   ALL SPACES = 100 PSF + 20 PSF PARTITION
   SECOND FLOOR:
   ALL ROOMS = 100 PSF
   ROOF = 20 PSF
2. SEISMIC LOADS:
   OCCUPANCY CATEGORY = II
   Ss = 0.091
   S1 = 0.06
   SITE CLASS = D
   Sds = 0.097
   Sd1 = 0.097
   DESIGN CATEGORY = B
   LATERAL SYSTEM
   Cs = Sd1/(R/Ie) = .0323
   R = 3
   ANALYSIS PROCEDURE = ASCE 7-16/IBC 2015
3. WIND LOADS:
   VELOCITY = 132 MPH
   RISK CATEGORY = III
   EXPOSURE = B
   ANALYSIS PROCEDURE = ASCE 7-16/IBC 2021
   COMPONENT AND CLADDING PRESSURE/SUCTION:

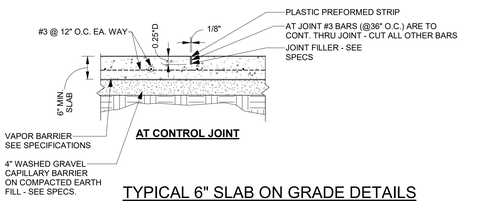
ROOF/ WALL ZONE	TRIBUTARY AREA (SQ. FT.)	SUCTION / PRESSURE (PSF)
1	10 OR LESS	-66.2 / 25.0
	20	-63.2 / 23.5
	50	-57.3 / 22.6
	100	-54.4 / 22.1
	200	-50.9 / 22.1
	500	-45.6 / 22.1
	1000	-45.6 / 22.1
1'	10 OR LESS	-42.6 / 25.0
	20	-42.6 / 23.5
	50	-42.6 / 22.6
	100	-42.6 / 22.1
	200	-38.1 / 22.1
	500	-32.3 / 22.1
	1000 OR MORE	-27.9 / 22.1
2	10 OR LESS	-83.8 / 25.0
	20	-80.3 / 23.5
	50	-72.0 / 22.6
	100	-69.1 / 22.1
	200	-63.2 / 22.1
	500	-57.3 / 22.1
	1000 OR MORE	-57.3 / 22.1
3	10 OR LESS	-110.3 / 25.0
	20	-101.4 / 23.5
	50	-89.7 / 22.6
	100	-77.9 / 22.1
	200	-69.1 / 22.1
	500	-57.3 / 22.1
	1000 OR MORE	-57.3 / 22.1
4	10 OR LESS	-48.5 / 45.6
	20	-47.0 / 42.6
	50	-45.6 / 41.2
	100	-42.6 / 39.7
	200	-41.2 / 38.2
	500	-39.7 / 36.8
	1000 OR MORE	-39.7 / 36.8
5	10 OR LESS	-57.3 / 45.6
	20	-54.4 / 42.6
	50	-51.5 / 41.2
	100	-48.5 / 39.7
	200	-42.6 / 38.2
	500	-39.7 / 36.8
	1000 OR MORE	-39.7 / 36.8

CONTROL JOINT NOTES:

1. CONTROL JOINTS SHALL BE SPACED @ 15'-0" ON CENTER MAX EACH WAY.
2. CONTROL JOINTS CAN BE SAWED JOINTS OR CONSTRUCTION JOINTS.
3. CONTROL JOINTS SHALL BE AT LEAST 5'-0" FROM GRADE BEAM CENTERLINES.
4. CONTROL JOINT LOCATIONS SHALL BE COORDINATED WITH FLOOR FINISHES.
5. CONTRACTOR SHALL SUBMIT A CONTROL JOINT PLAN TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY FLOOR SLABS.



AT EXPANSION & CONSTRUCTION JOINT



AT CONTROL JOINT

TYPICAL 6" SLAB ON GRADE DETAILS

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NORTH OAKS HEALTH SYSTEM
PARKING GARAGE
Hammond, Louisiana

North Oaks Health System

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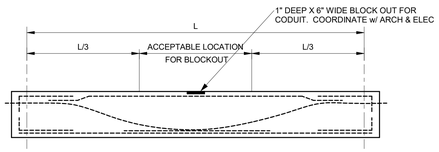
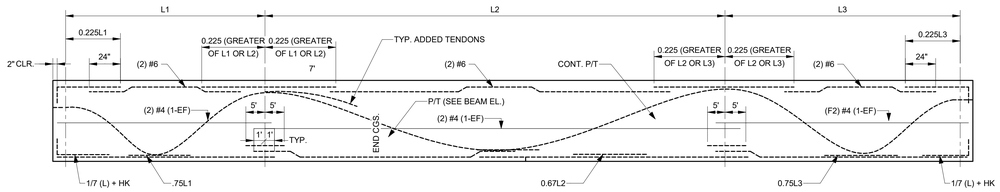
GENERAL NOTES AND TYPICAL DETAILS

S7.1

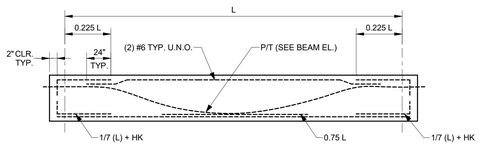


CONDUIT BLOCK OUT DETAIL



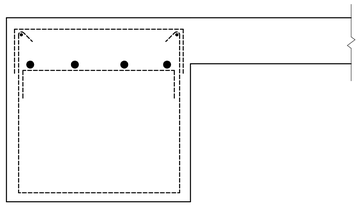
TYPICAL MULTI - SPAN BEAM

ALL BEAMS:
TYPICAL STIRRUPS U.N.O. ON BEAM ELEVATIONS
#4 STIRRUPS @ SPACING FROM COLUMN FACE
EA. END 1 @ 4"; 3@ 8"; 7 x 12"; REM. @ 21"

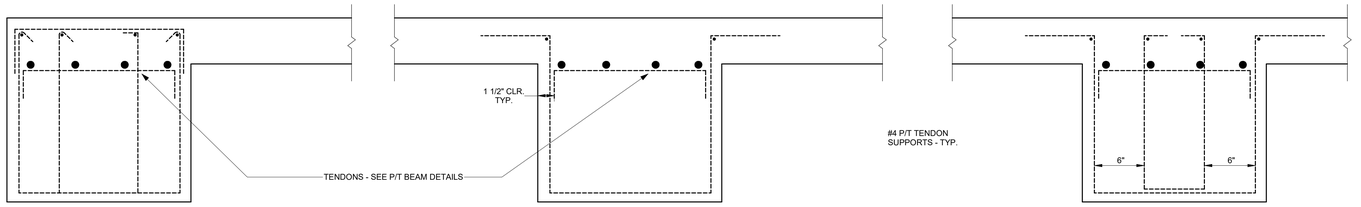


1-SPAN BEAM
TYPICAL U.N.O.

(SEE BEAM EL. FOR REBAR SIZE & QUANTITY)



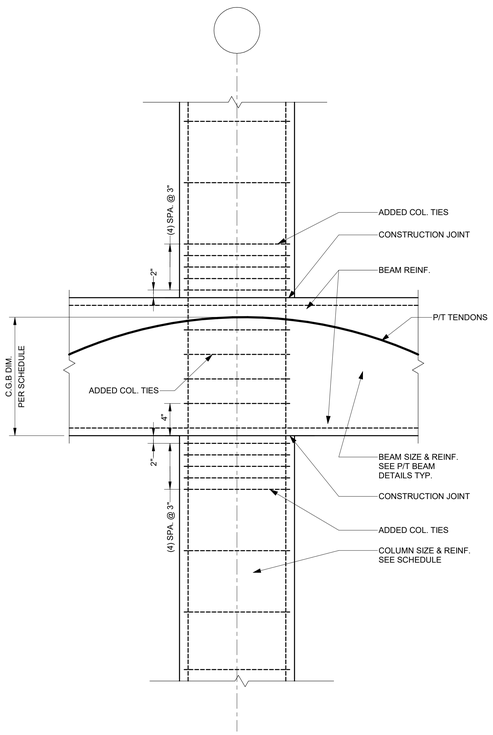
TYPICAL SINGLE STIRRUPS @ EDGE BEAMS



TYPICAL DOUBLE STIRRUPS @ EDGE BEAMS

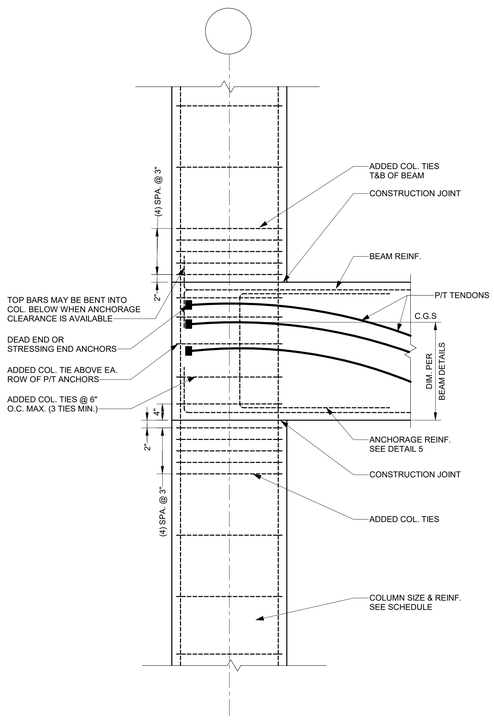
TYPICAL SINGLE STIRRUPS @ INTERIOR BEAMS

TYPICAL DOUBLE STIRRUPS @ INTERIOR BEAMS



P/T BEAM/COLUMN DETAIL 1

NO SCALE



P/T BEAM/COLUMN DETAIL 2

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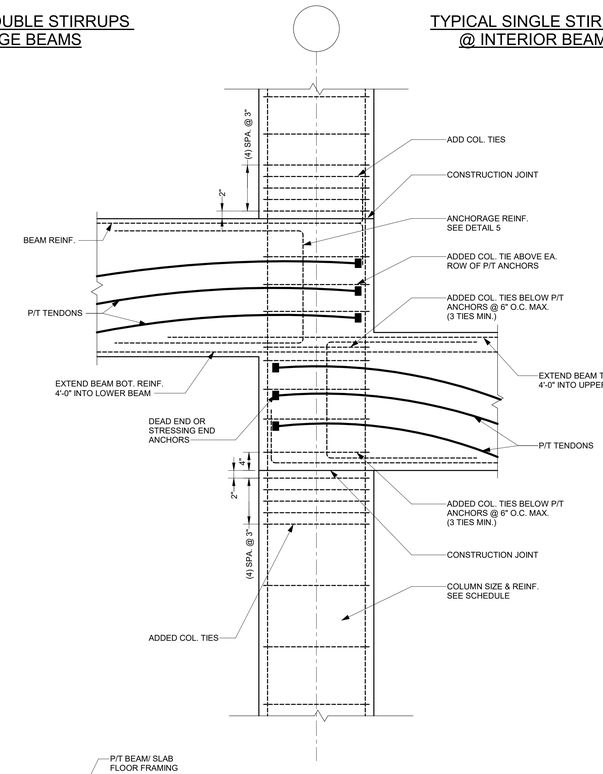
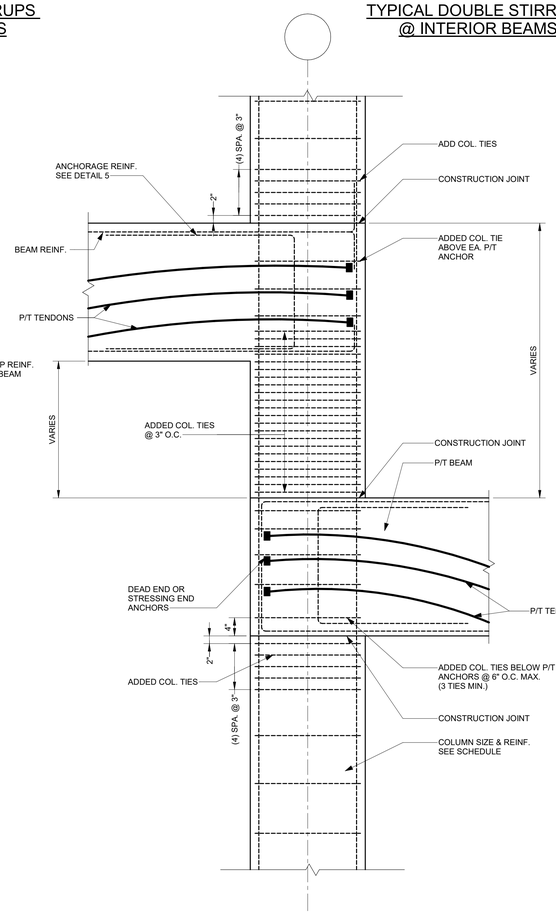


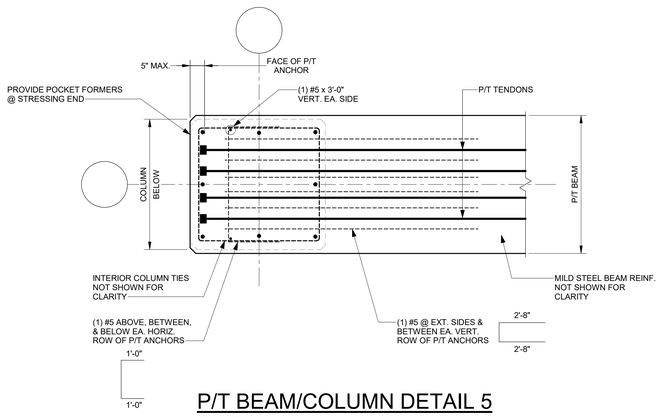
P/T BEAM/COLUMN DETAIL 3

NO SCALE



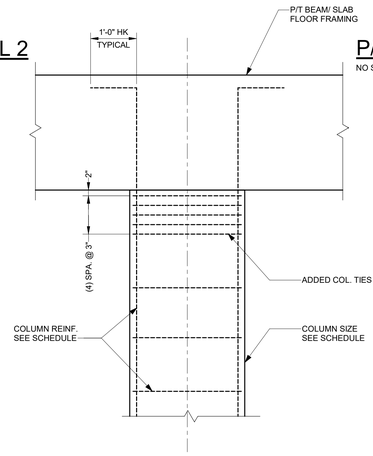
P/T BEAM/COLUMN DETAIL 4

NO SCALE



P/T BEAM/COLUMN DETAIL 5

NO SCALE



TOP OF INTERIOR COLUMN TYPICAL DETAIL

NO SCALE

ALTERNATE NOTE:

ALTERNATE #1:
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALTERNATE #2:
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ALL DETAILS AND DESIGN FOR THE TOP LEVEL OF GARAGE IN THESE PLANS ARE TO BE INSTALLED AS SHOW IF ALTERNATE # 1 OR #2 ARE NOT ACCEPTED. STAIR TERMINATIONS, ELEVATOR, ROOFS, ETC. EVERYTHING ASSOCIATED WITH THE TOP LEVEL OF THE GARAGE

WHLC ARCHITECTURE

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09-09-2026

North Oaks Health System

NORTH OAKS HEALTH
PARKING GARAGE

Hammond, Louisiana

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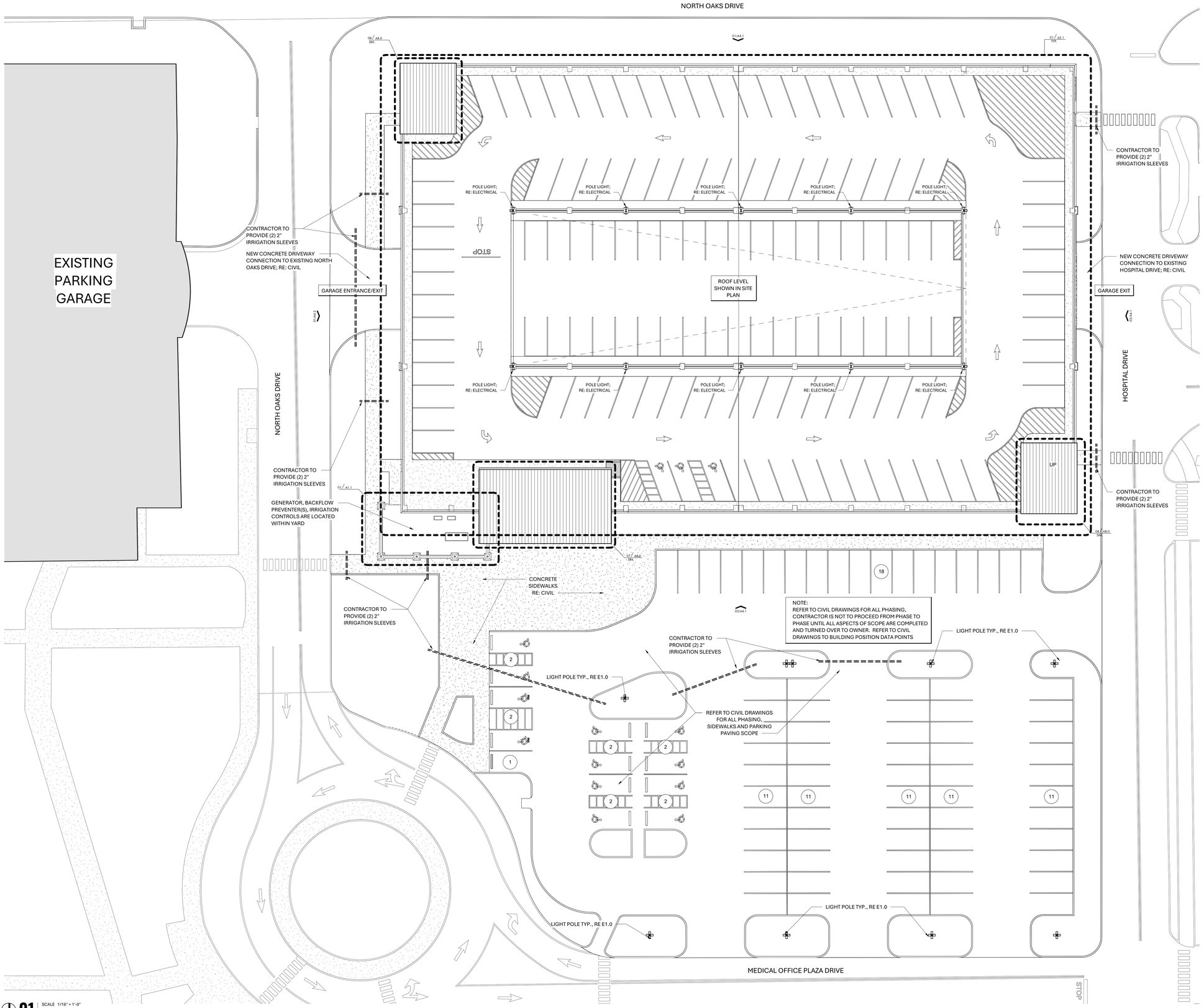
TYPICAL DETAILS

S7.2



01 SCALE 1/16" = 1'-0"
SITE PLAN

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- window identification; re: A9.X - A9.X
- elevation identification
- elevation marker
- detail reference bubble
- section reference marker; re: building sections

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

NOTE:
ALL DETAILS AND DRAWINGS IN THESE CONTRACT DOCUMENTS ILLUSTRATE BOTH ADD-ALTERNATES FOR A COMPLETE FIVE-LEVEL PARKING GARAGE.

BE ADVISED:
ALL DETAILS AND ITEMS SHOWN FOR THE TOP LEVEL ARE PART OF THE CONTRACT FOR THE TOP LEVEL AND ARE TO BE INSTALLED, REGARDLESS IF ADD-ALTERNATE NO.1 OR NO.2 ARE ACCEPTED. THIS INCLUDES BUT ARE NOT LIMITED TO THE FOLLOWING: STAIR TERMINATIONS & ROOFS, STOREFRONT ENCLOSURES, CURTAINWALL, TRAFFIC COATING, POLE LIGHTING, BOLLARDS, ETC.

WHLC ARCHITECTURE

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

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ARCHITECTURAL SITE PLAN

A1.0

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
- camera's
- painted parking lot striping. re: spec.'s
- signage indication; re: A11.0

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

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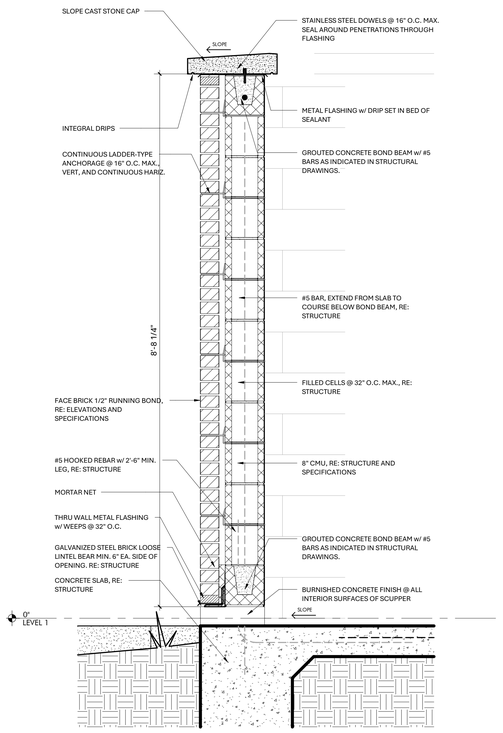
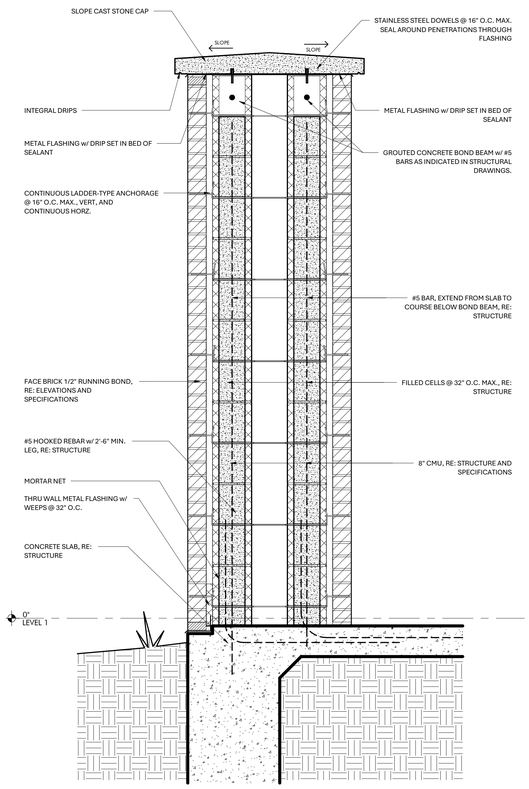
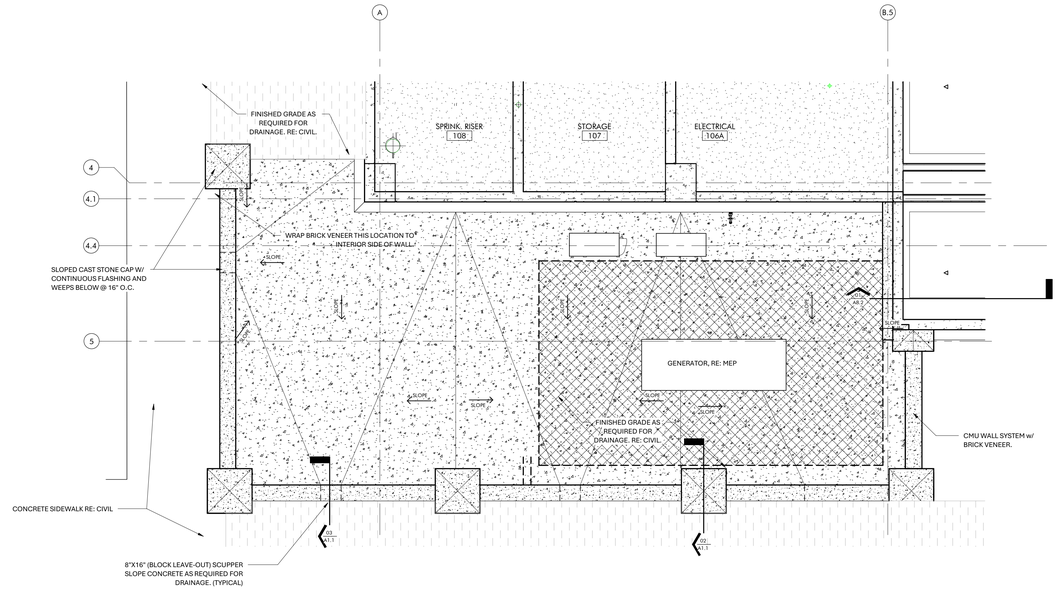


03 SCALE 1" = 1'-0"
UTILITY YARD WALL MASONRY LEAVE-OUT SCUPPER



02 SCALE 1" = 1'-0"
UTILITY YARD PILASTER / COLUMN



01 SCALE 1/4" = 1'-0"
UTILITY PLAN

WHLC ARCHITECTURE

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE
Hammond, Louisiana

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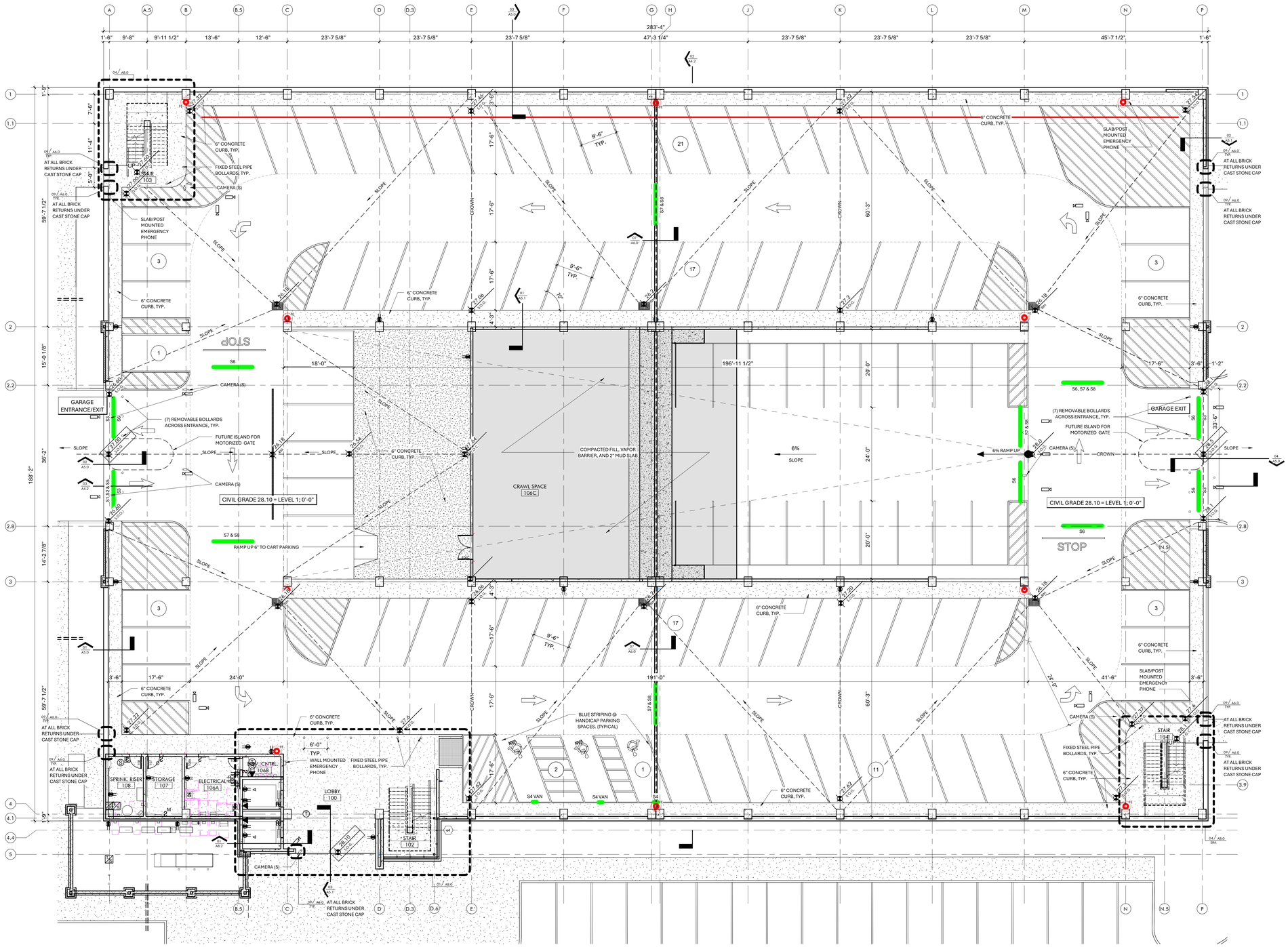
ENLARGED SITE PLANS AND SITE DETAILS

A1.1



01 LEVEL 1 FLOOR PLAN
SCALE 3/32" = 1'-0"

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
- camera's
- painted parking lot striping. re: spec.'s
- signage indication; re: A11.0

ADD-ALTERNATE NOTE

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ADD-ALTERNATE NO.2
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NOTE:
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BE ADVISED:
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PARKING SCHEDULE

Type	ADA PARKING STALL COUNT	STANDARD PARKING STALL COUNT
LEVEL 1		
ADA CAR (9'X18') - 70 DEGREE	1	0
ADA VAN (9'X18') - 70 DEGREE	2	0
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE	0	5
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	13
	3	84
LEVEL 2		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 3		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 4		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 5		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
	15	596

WHLC ARCHITECTURE

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE
Hammond, Louisiana

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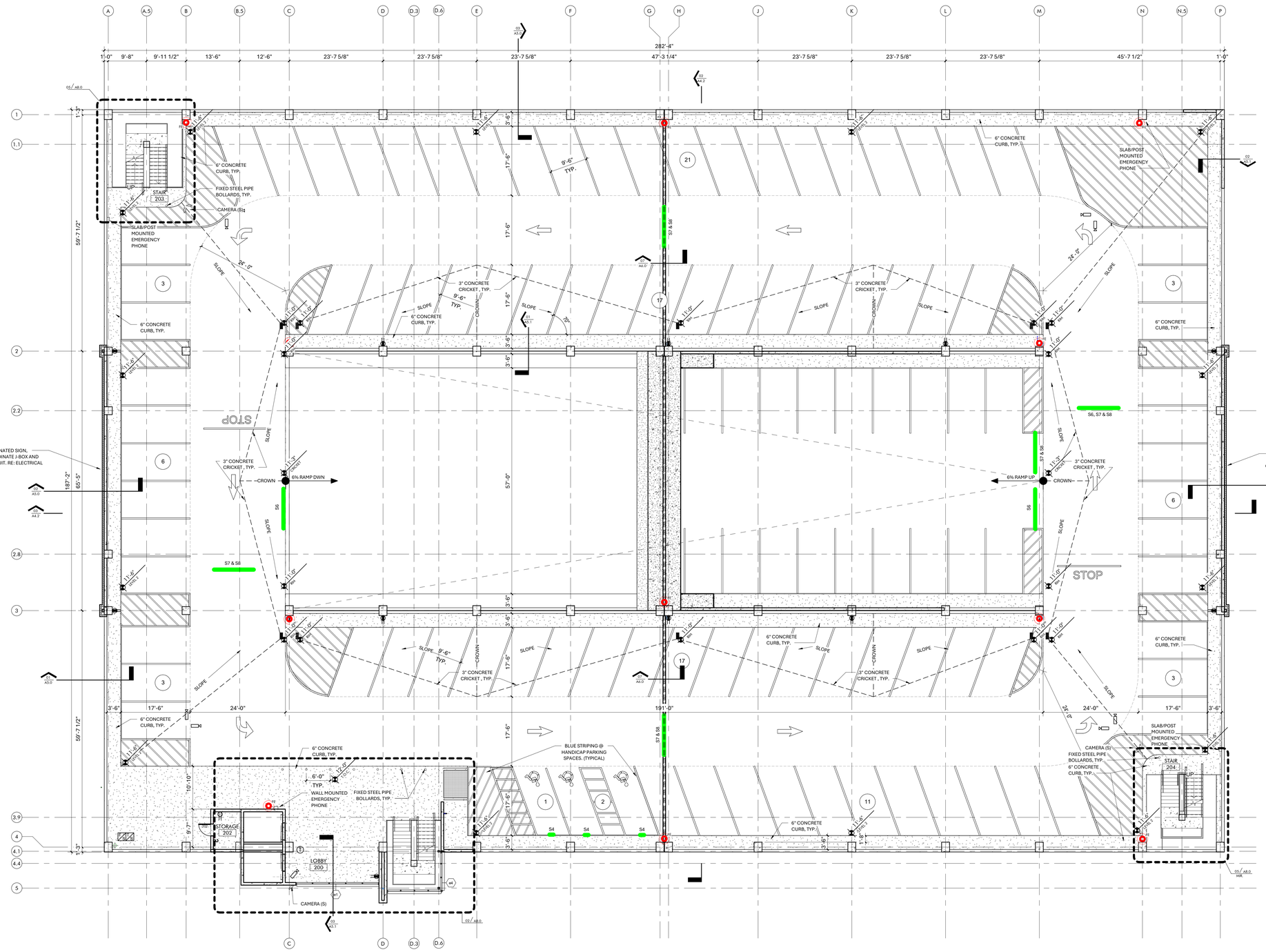
LEVEL 1 FLOOR PLAN

A2.1



01 SCALE 3/32" = 1'-0"
LEVEL 2 FLOOR PLAN

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
- camera's
- painted parking lot striping. re: spec.'s
- signage indication; re: A11.0

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

NOTE:
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PARKING SCHEDULE

Type	ADA PARKING STALL COUNT	STANDARD PARKING STALL COUNT
LEVEL 1		
ADA CAR (9'X18') - 70 DEGREE	1	0
ADA VAN (9'X18') - 70 DEGREE	2	0
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE	0	5
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	13
	3	84
LEVEL 2		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 3		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 4		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 5		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
	15	596

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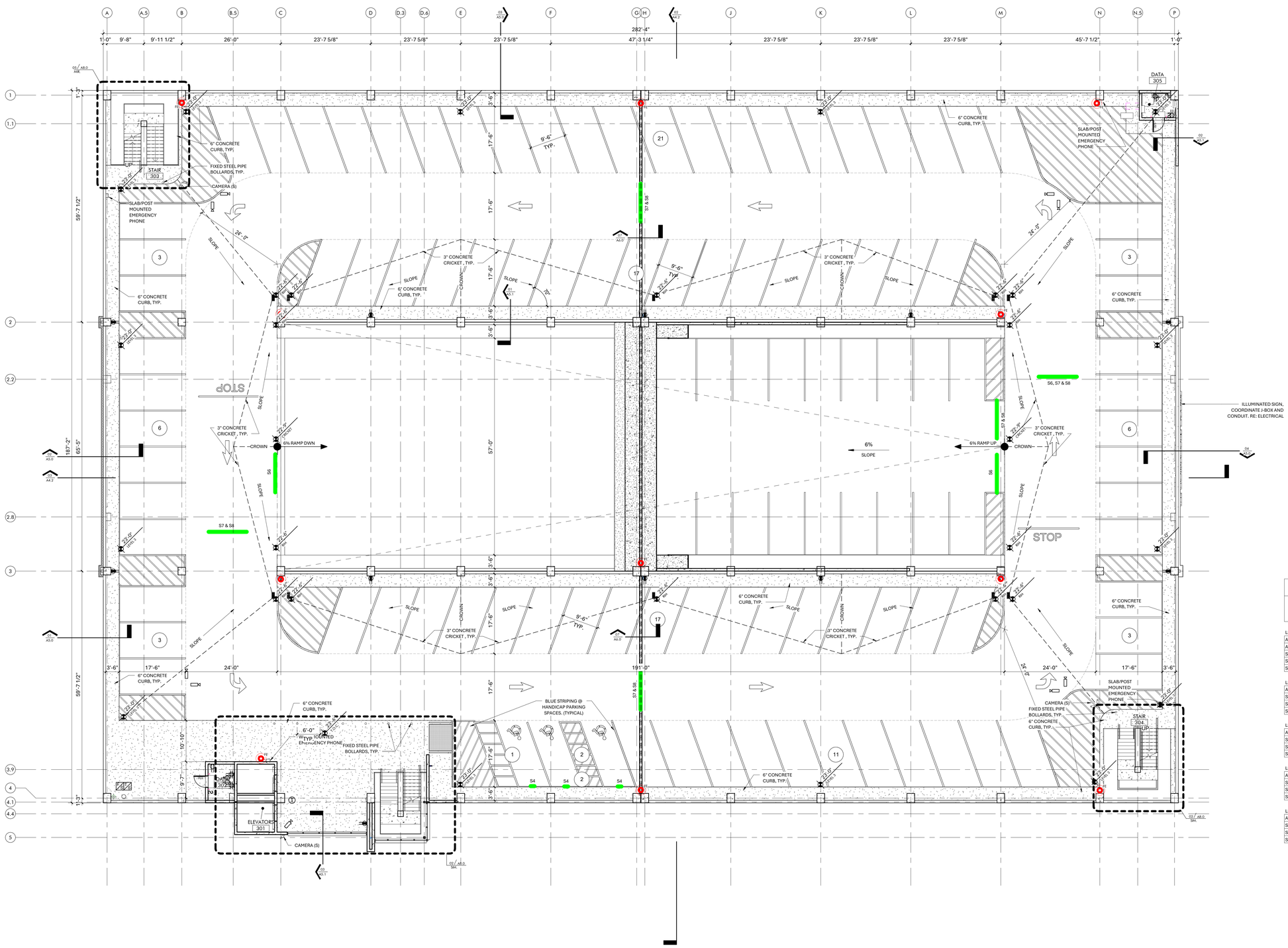
LEVEL 2 FLOOR PLAN

A2.2



01 SCALE 3/32" = 1'-0"
LEVEL 3 FLOOR PLAN

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- ROOM NAME / 101 — room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
- camera's
- painted parking lot striping. re: spec.'s
- Sx — signage indication; re: A11.0

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PARKING SCHEDULE

Type	ADA PARKING STALL COUNT	STANDARD PARKING STALL COUNT
LEVEL 1		
ADA CAR (9'X18') - 70 DEGREE	1	0
ADA VAN (9'X18') - 70 DEGREE	2	0
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE	0	5
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	13
	3	84
LEVEL 2		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 3		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 4		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 5		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
	15	596

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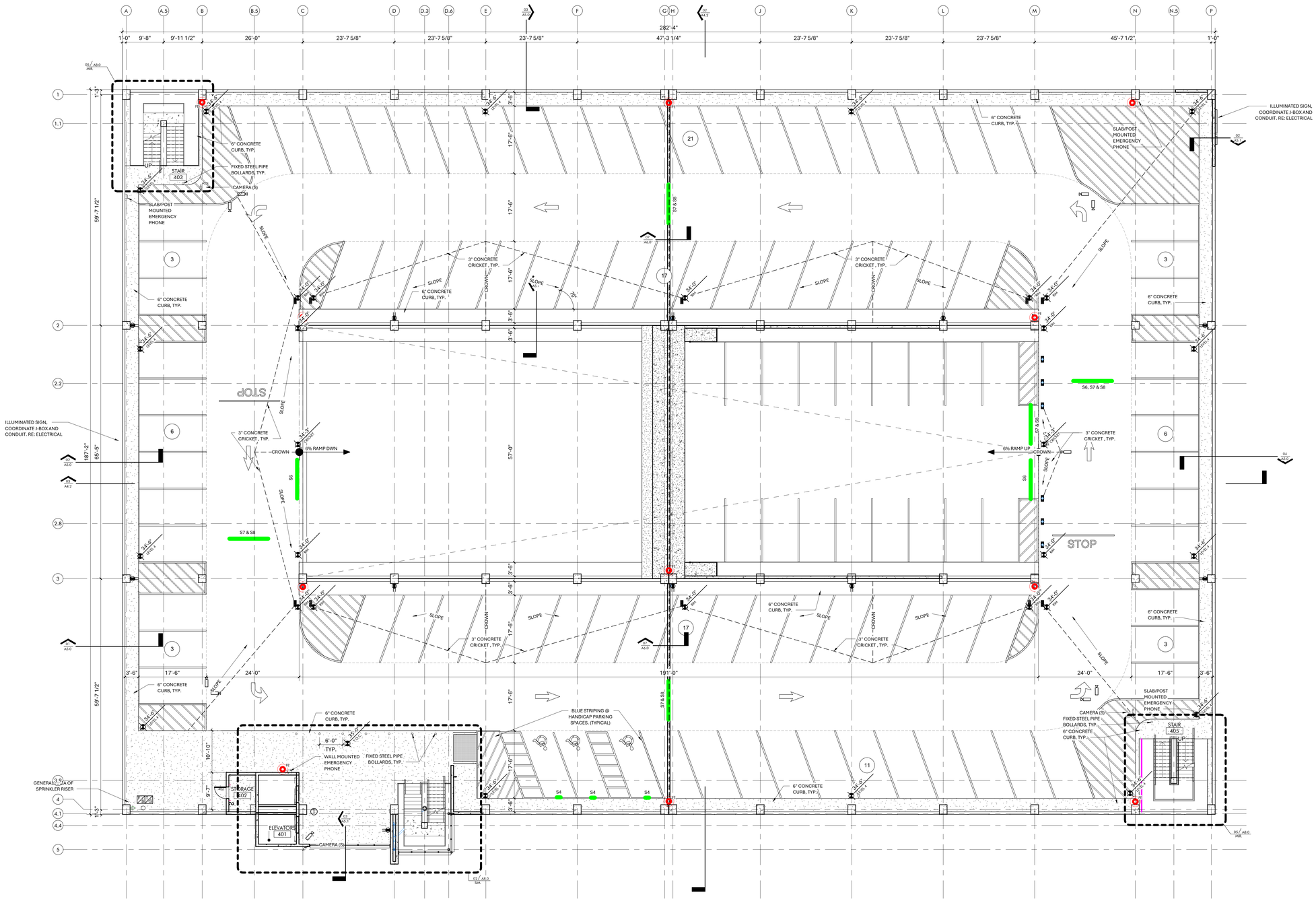
LEVEL 3 FLOOR PLAN

A2.3



01 SCALE 3/32" = 1'-0"
LEVEL 4 FLOOR PLAN (ADD-ALTERNATE NO.1)

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
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ADD-ALTERNATE NOTE

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PARKING SCHEDULE

Type	ADA PARKING STALL COUNT	STANDARD PARKING STALL COUNT
LEVEL 1		
ADA CAR (9'X18') - 70 DEGREE	1	0
ADA VAN (9'X18') - 70 DEGREE	2	0
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE	0	5
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	13
	3	84
LEVEL 2		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 3		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 4		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 5		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
	15	596

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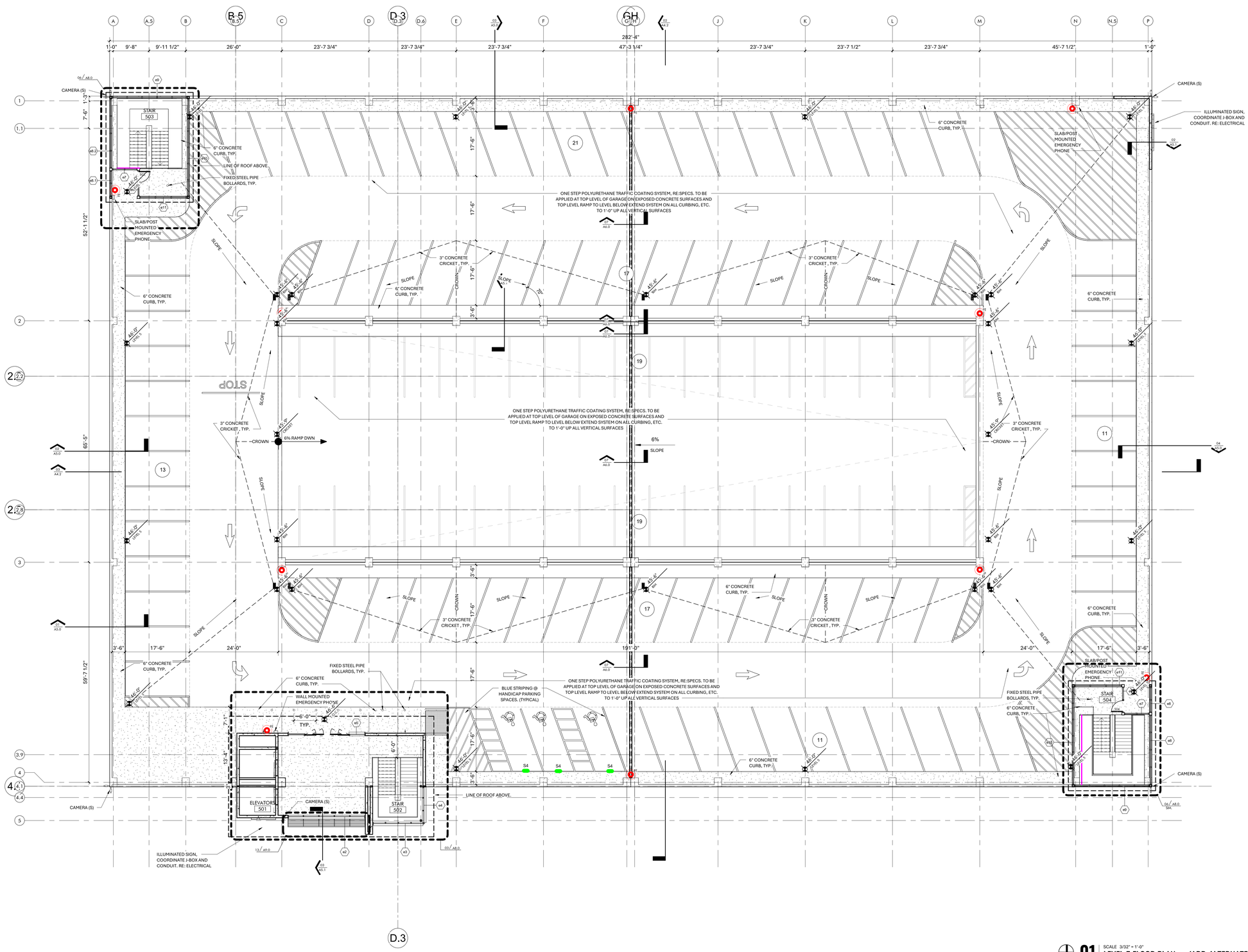
LEVEL 4 FLOOR PLAN (ADD ALTERNATE #1)

A2.4



01 SCALE 3/32" = 1'-0"
LEVEL 5 FLOOR PLAN (ADD-ALTERNATE NO.2)

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- room name and number
- elevation identification
- window identification; re: A9.0
- floor plan detail reference bubble
- section reference marker; re: building sections
- cast in place concrete. re; structure
- cast in place concrete sidewalks/paving. re; structure
- wall mounted fire extinguisher
- camera's
- painted parking lot striping. re: spec.'s
- signage indication; re: A11.0

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

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PARKING SCHEDULE

Type	ADA PARKING STALL COUNT	STANDARD PARKING STALL COUNT
LEVEL 1		
ADA CAR (9'X18') - 70 DEGREE	1	0
ADA VAN (9'X18') - 70 DEGREE	2	0
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE	0	5
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	13
	3	84
LEVEL 2		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 3		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 4		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
LEVEL 5		
ADA CAR (9'X18') - 70 DEGREE	3	0
STANDARD (9'-6"X16'-6") - 90 DEGREE 2	0	38
STANDARD (9'-6"X18') - 70 DEGREE	0	66
STANDARD (9'-6"X18') - 90 DEGREE (17'-6" DEEP)	0	24
	3	128
	15	596

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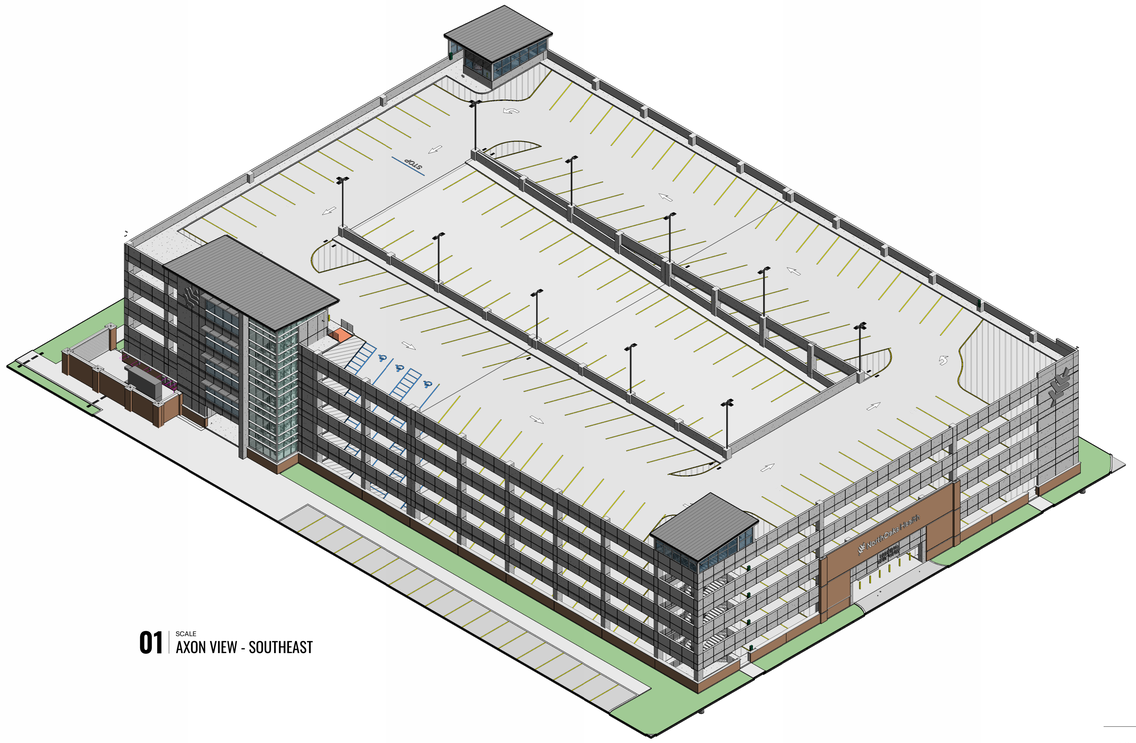
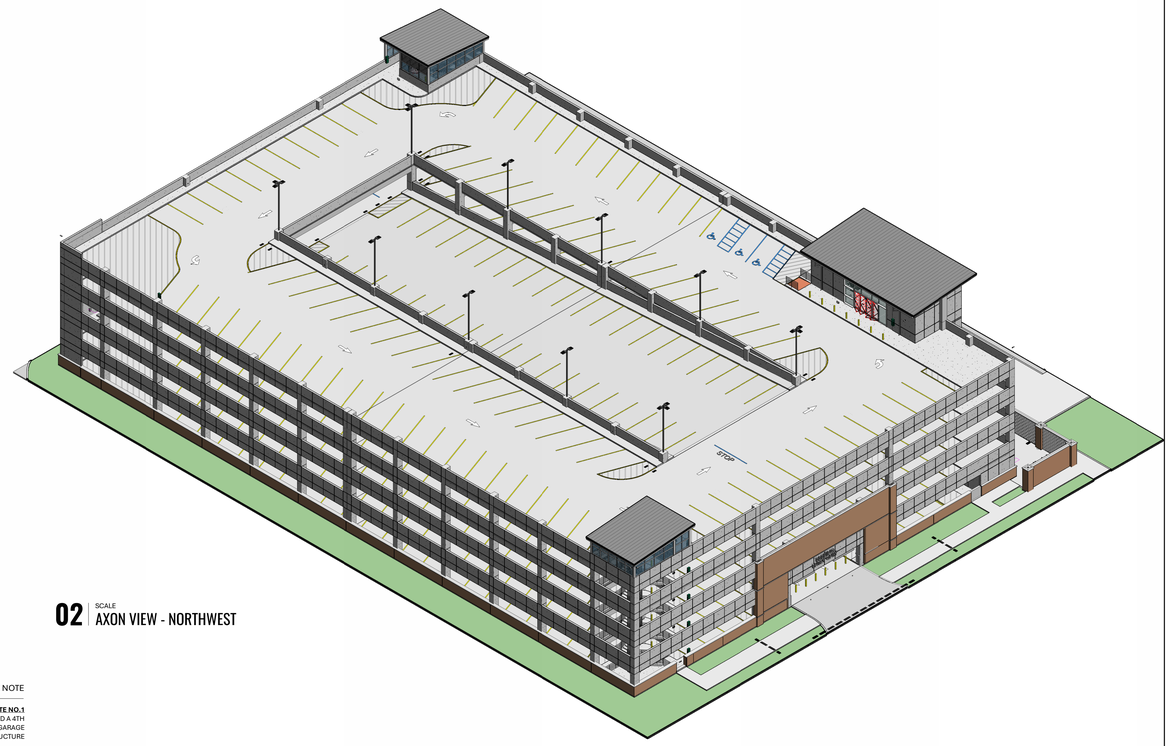
LEVEL 5 FLOOR PLAN (ADD ALTERNATE #2)

A2.5



01 SCALE
AXON VIEW - SOUTHEAST



02 SCALE
AXON VIEW - NORTHWEST

ADD-ALTERNATE NOTE

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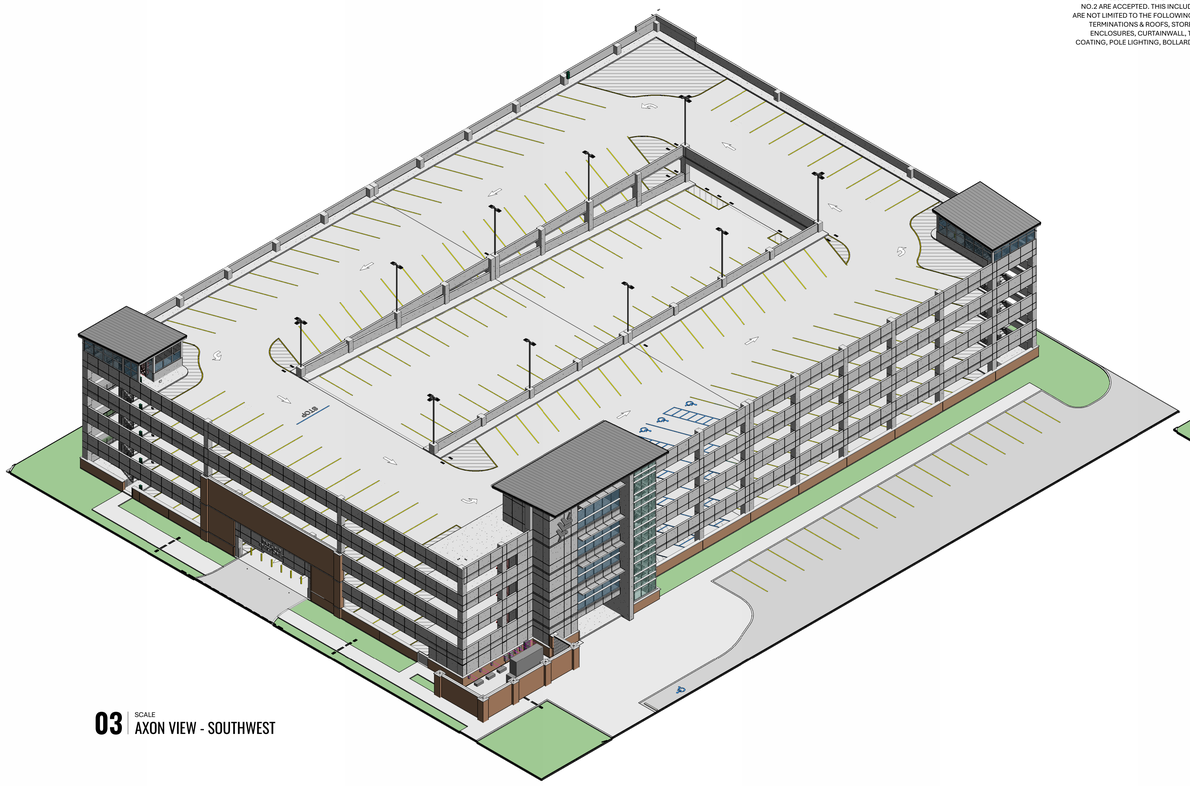
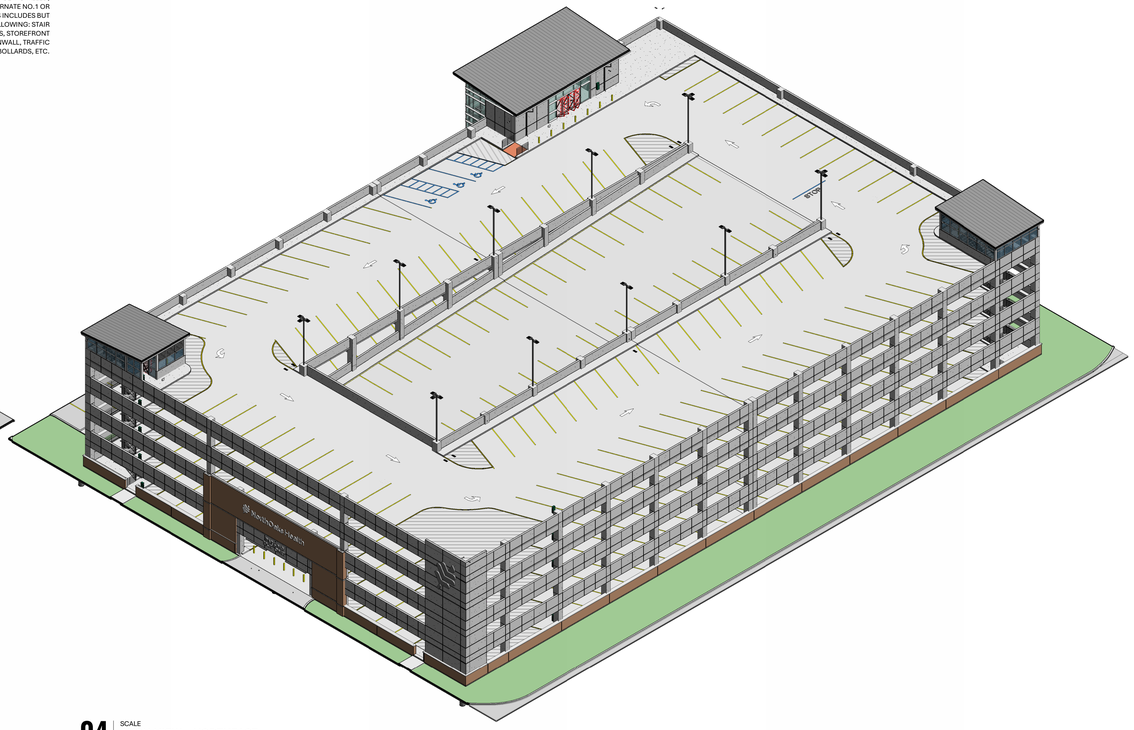


03 SCALE
AXON VIEW - SOUTHWEST



04 SCALE
AXON VIEW - NORTHEAST

WHLC ARCHITECTURE

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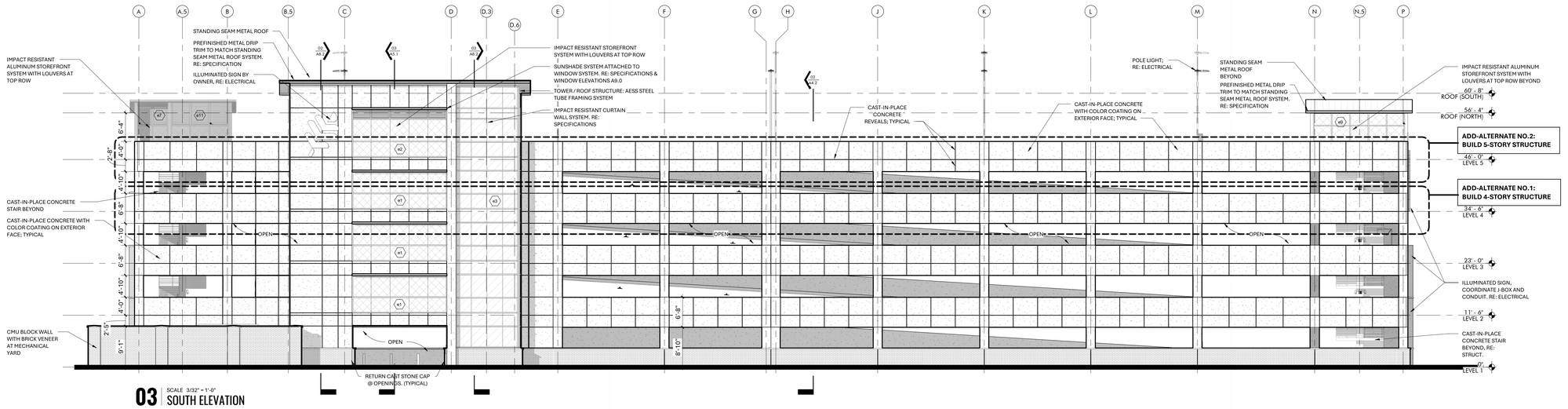
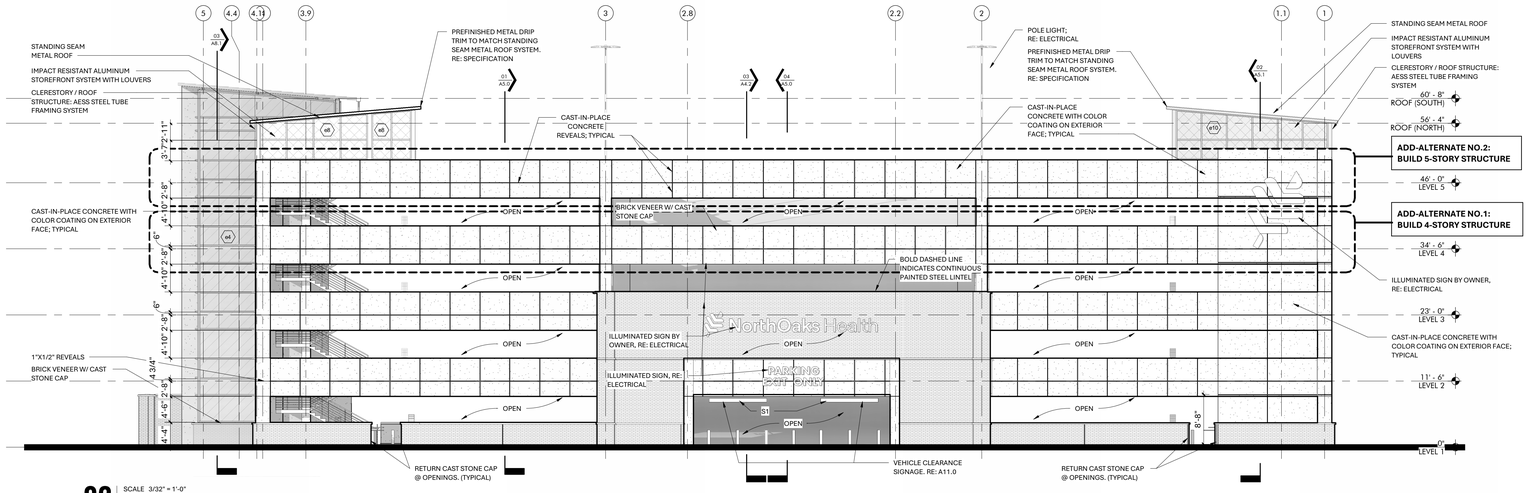
AXONOMETRIC VIEWS

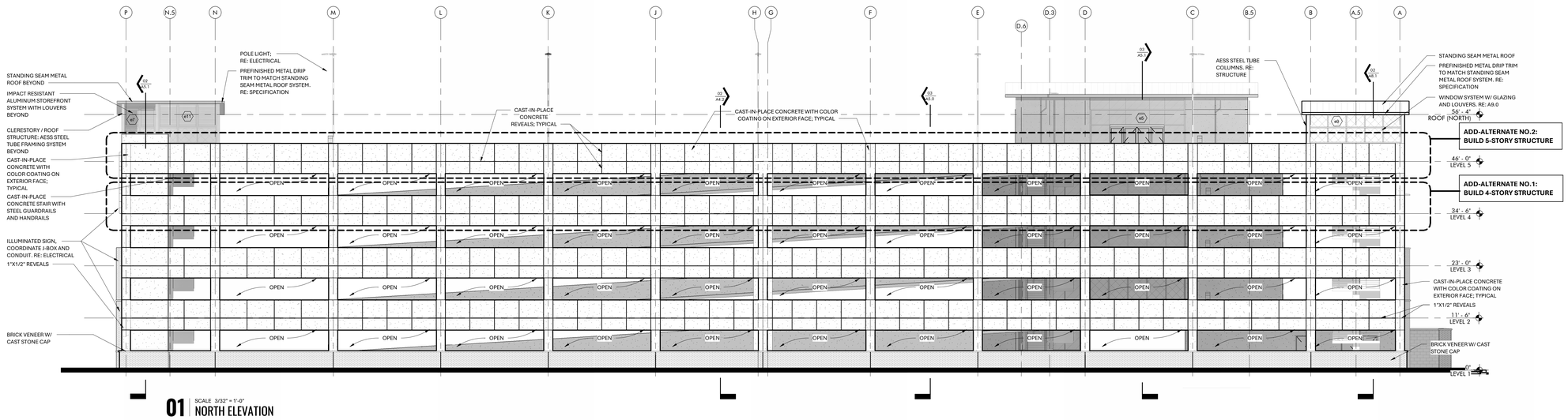
A4.0



03 SCALE 3/32" = 1'-0"
SOUTH ELEVATION



02 SCALE 3/32" = 1'-0"
EAST ELEVATION



01 SCALE 3/32" = 1'-0"
NORTH ELEVATION

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- window identification; re: A9.X - A9.X
- elevation identification
- elevation marker
- detail reference bubble
- section reference marker; re: building sections

ADD-ALTERNATE NOTE

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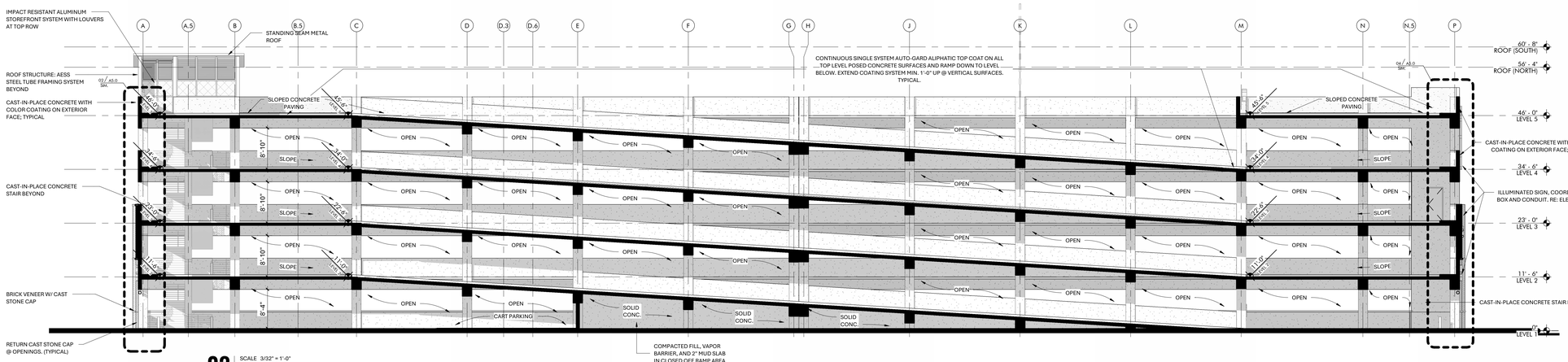
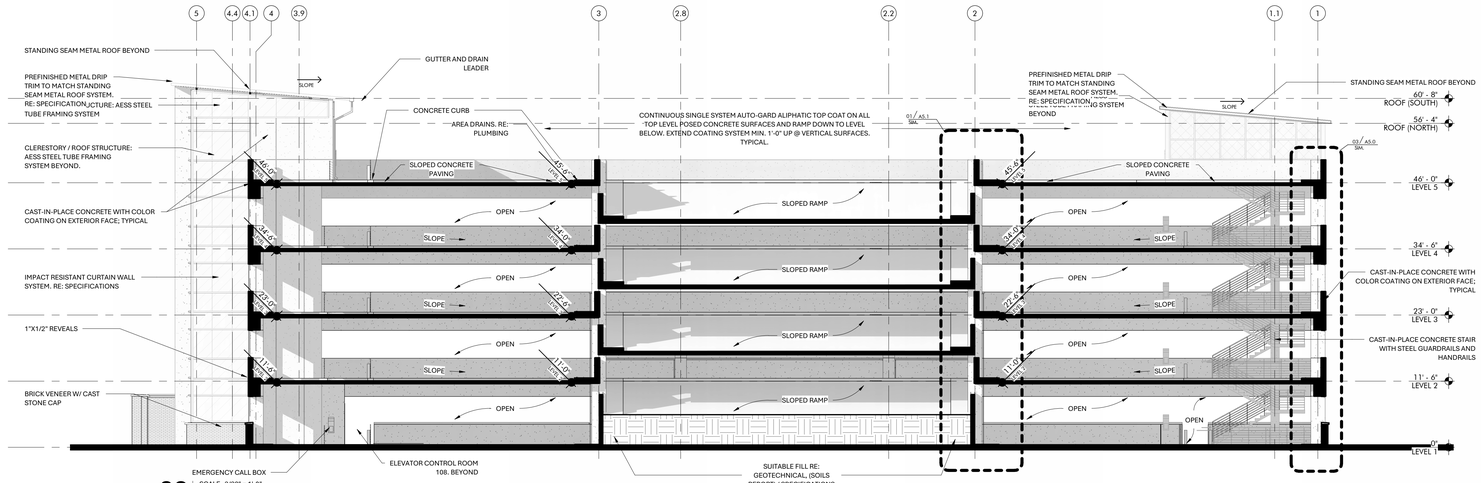
EXTERIOR ELEVATIONS

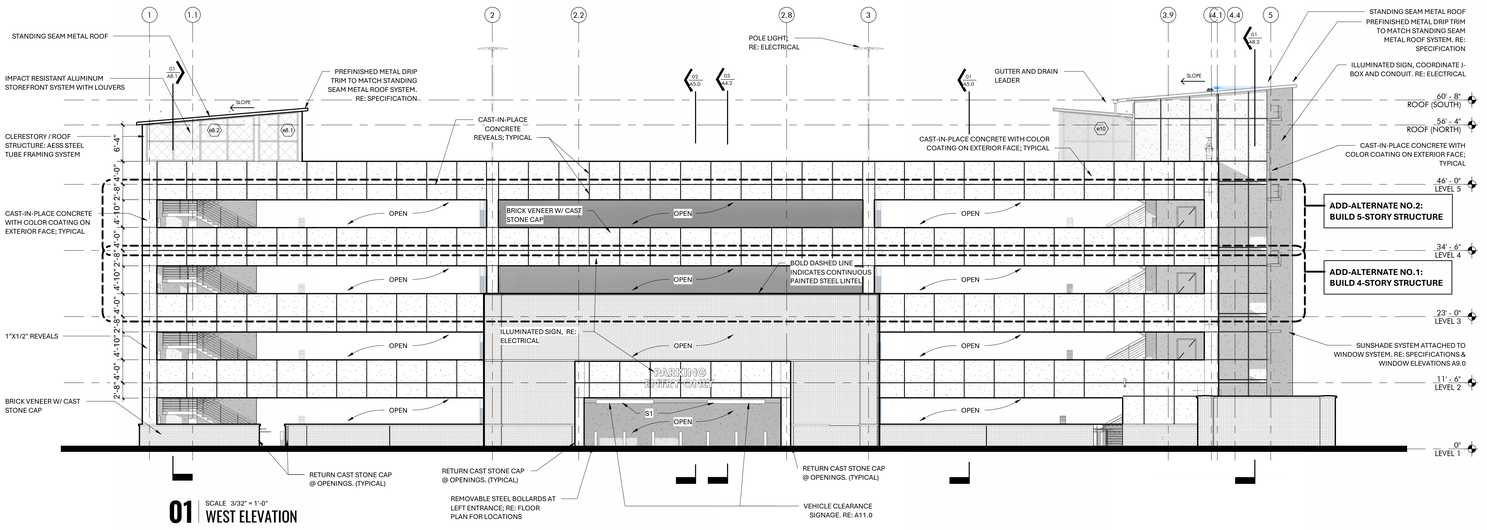
A4.1



03 SCALE 3/32" = 1'-0"
BUILDING SECTION



02 SCALE 3/32" = 1'-0"
BUILDING SECTION



01 SCALE 3/32" = 1'-0"
WEST ELEVATION

symbol legend

- door identification; re: door schedule
- column grid identification; re: structure
- window identification; re: A9.X - A9.X
- elevation identification
- elevation marker
- detail reference bubble
- section reference marker; re: building sections

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CONSTRUCTION DOCUMENTS
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EXTERIOR ELEVATIONS

A4.2

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
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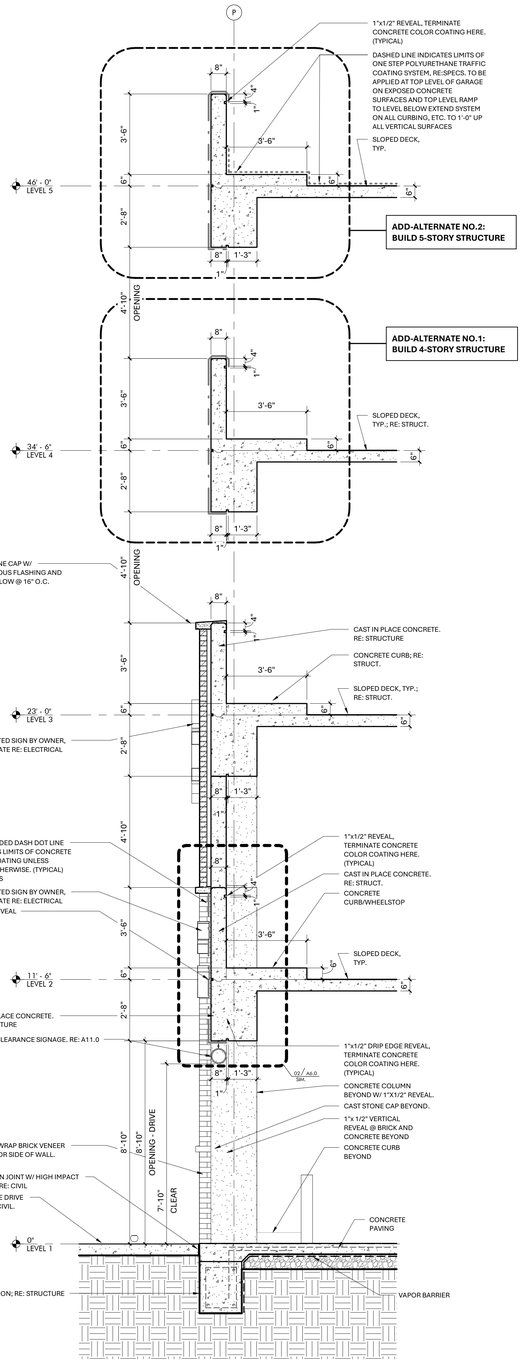
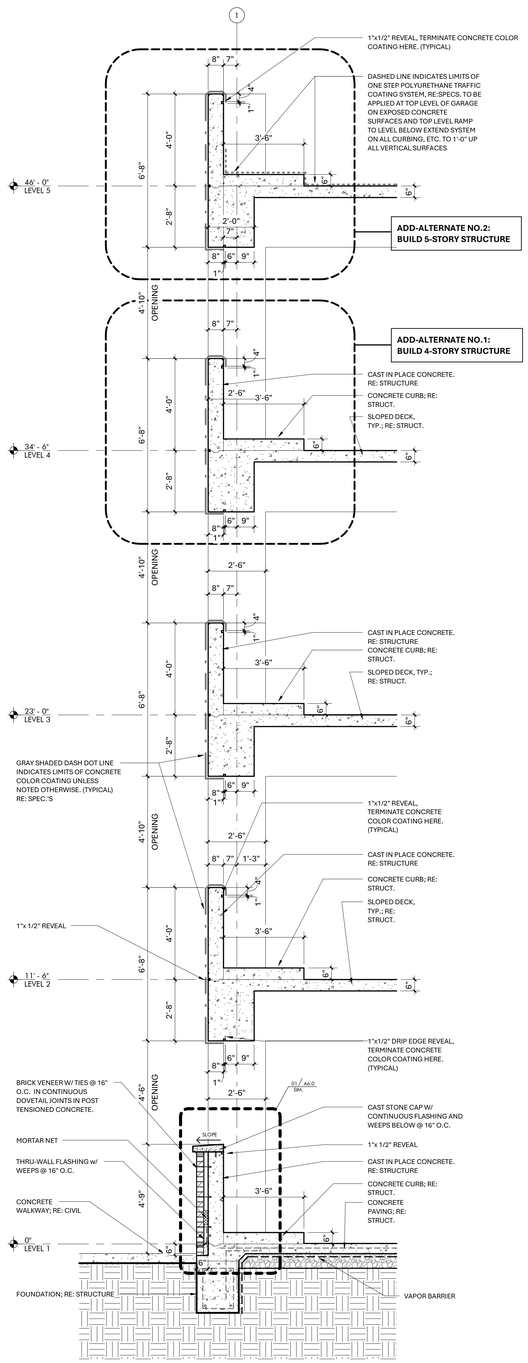
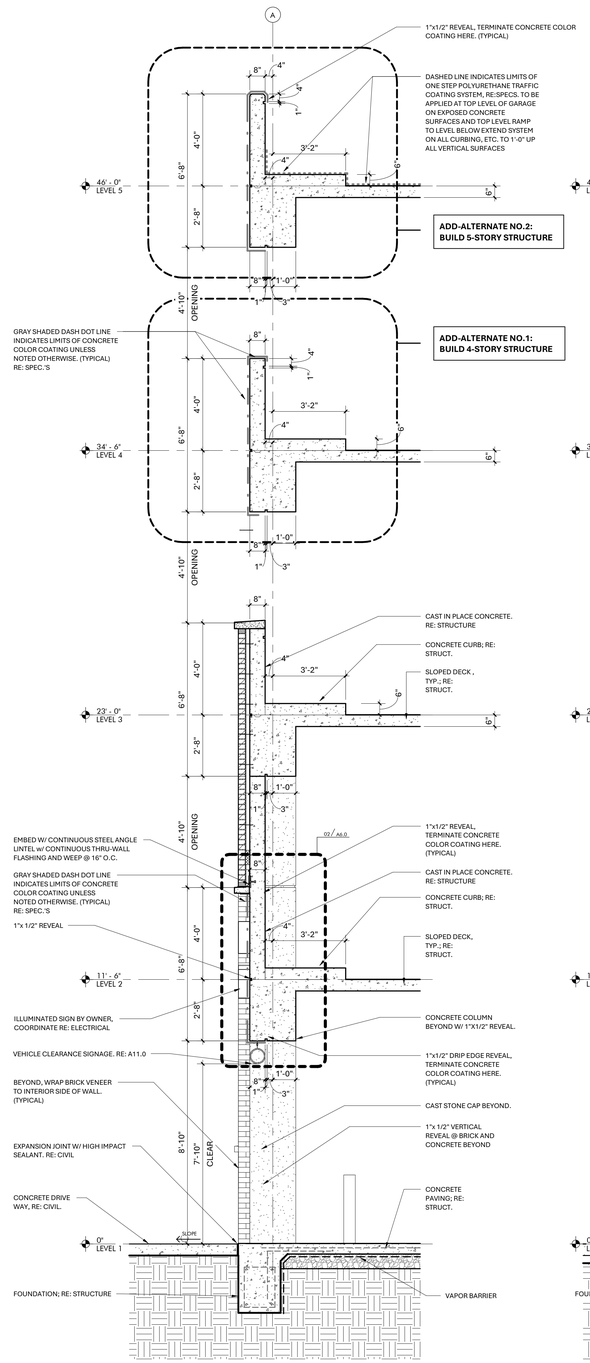


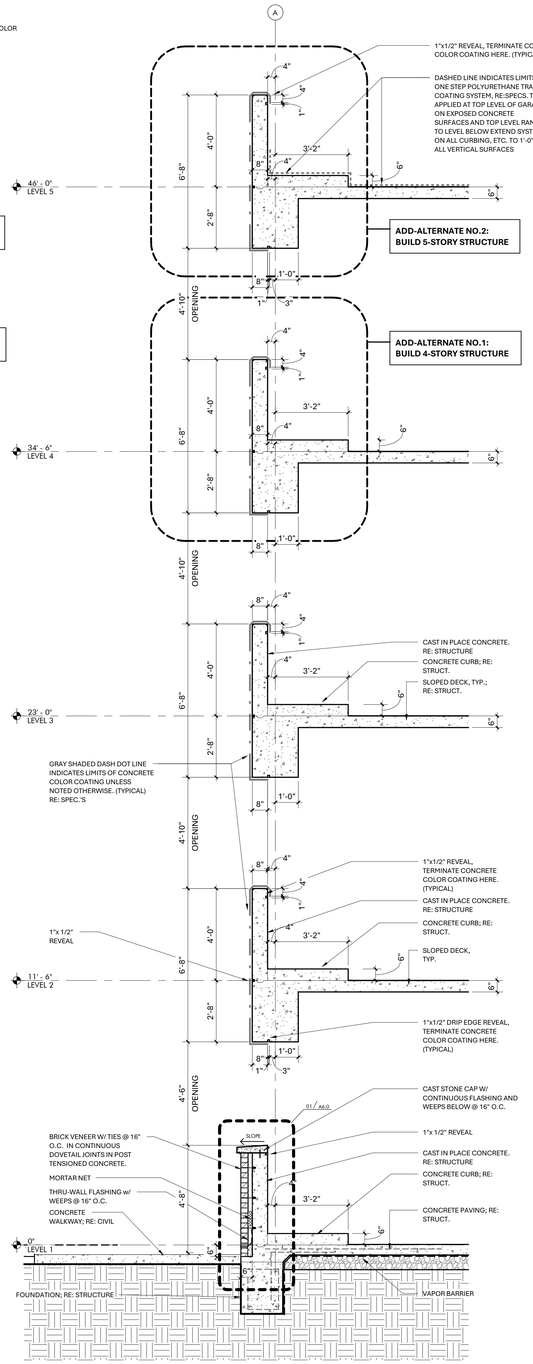
04 SCALE 3/8" = 1'-0"
WALL SECTION 03



03 SCALE 3/8" = 1'-0"
WALL SECTION



02 SCALE 3/8" = 1'-0"
WALL SECTION



01 SCALE 3/8" = 1'-0"
WALL SECTIONS

WHLC ARCHITECTURE

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Hammond, Louisiana

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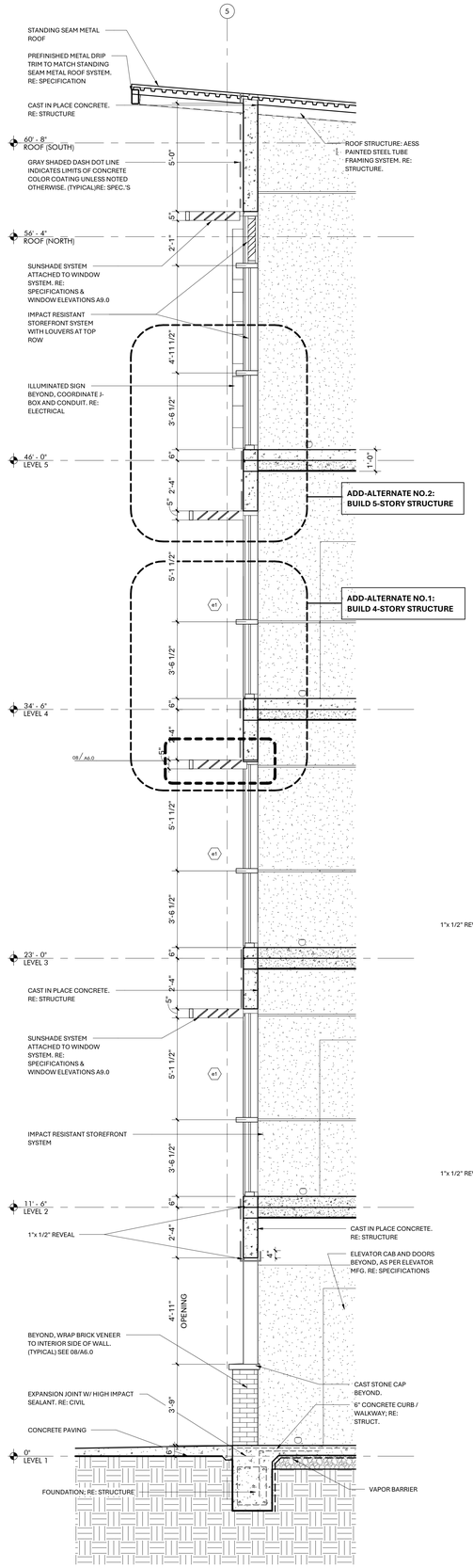
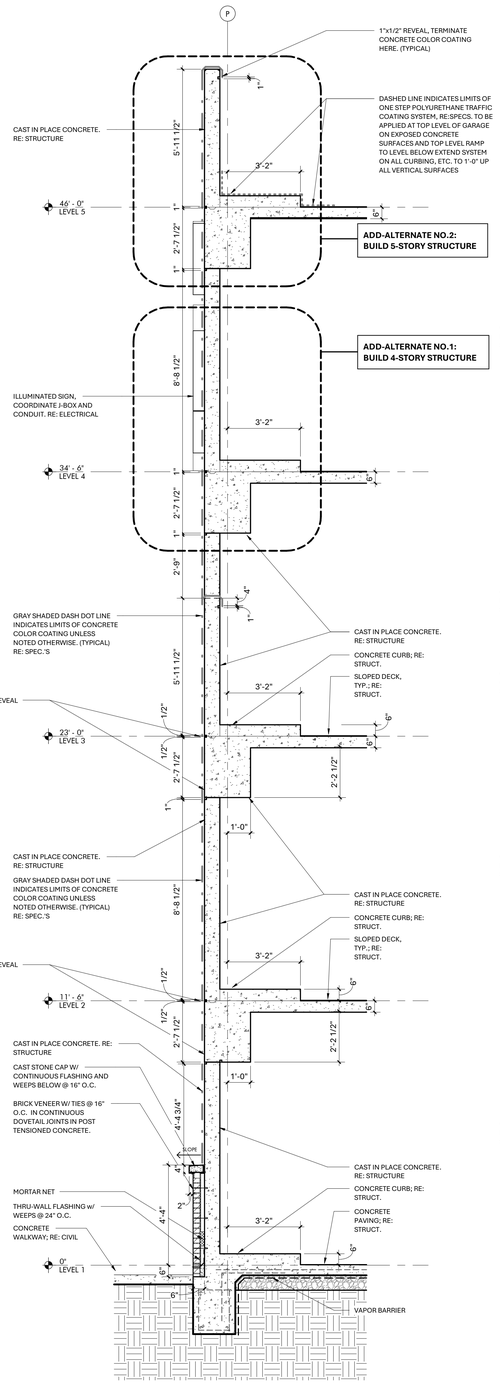
WALL SECTIONS

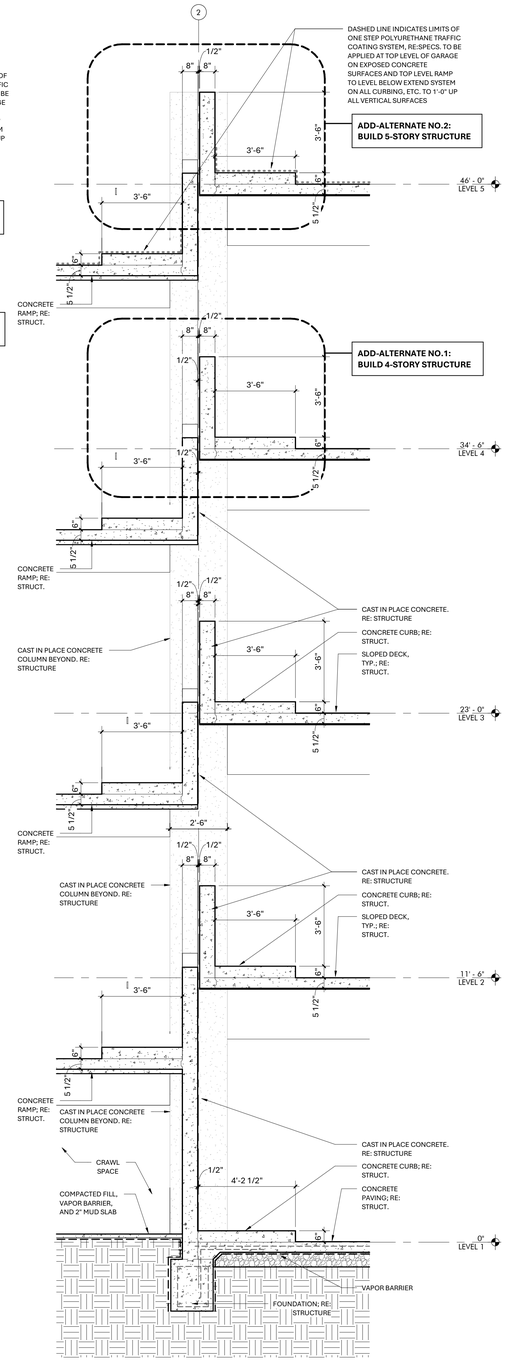
A5.0



03 SCALE 3/8" = 1'-0"
WALL SECTION



02 SCALE 3/8" = 1'-0"
WALL SECTION



01 SCALE 3/8" = 1'-0"
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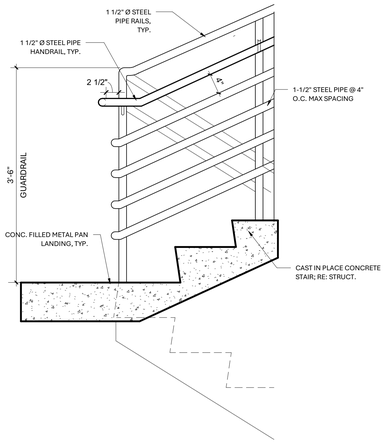
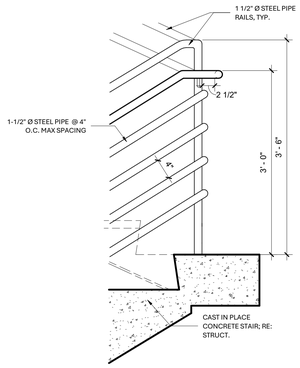
WALL SECTIONS

A5.1



20 SCALE 1" = 1'-0"
STAIR INTERMEDIATE LANDING DETAIL



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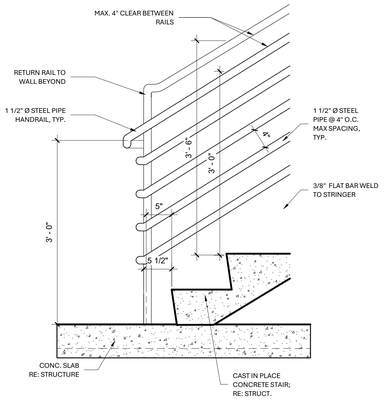
STAIR INTERMEDIATE LANDING DETAIL



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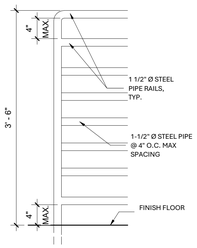
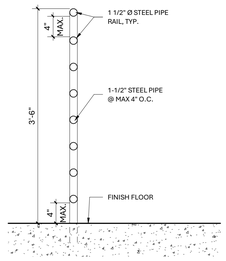
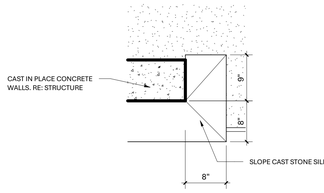
STAIR LANDING DETAIL 2



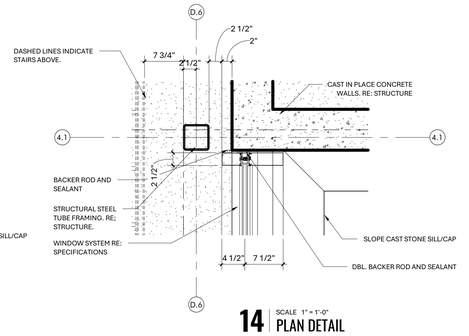
17 SCALE 1" = 1'-0"
GUARDRAIL ELEVATION DETAIL



16 SCALE 1" = 1'-0"
GUARDRAIL SECTION



15 SCALE 1" = 1'-0"
PLAN DETAIL



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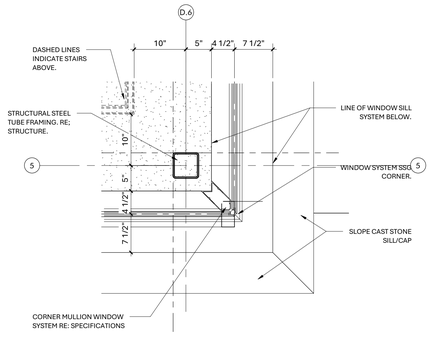
PLAN DETAIL



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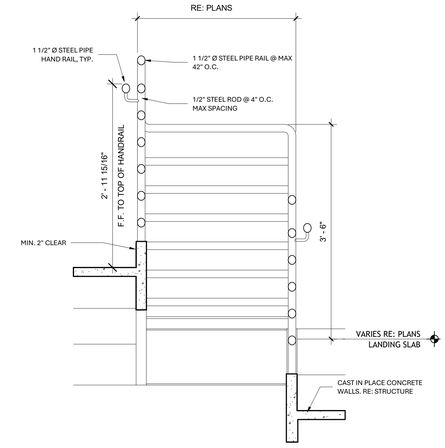
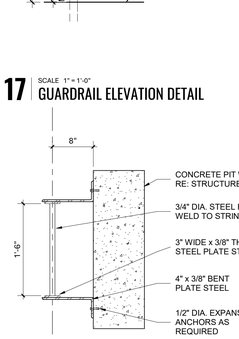
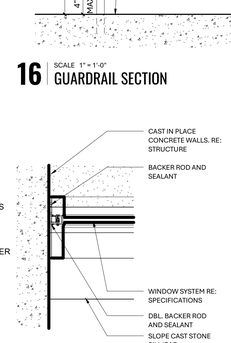
PLAN DETAIL



12 SCALE 1" = 1'-0"
GUARDRAIL SECTION 1



11 SCALE 1" = 1'-0"
ELEVATOR LADDER PLAN



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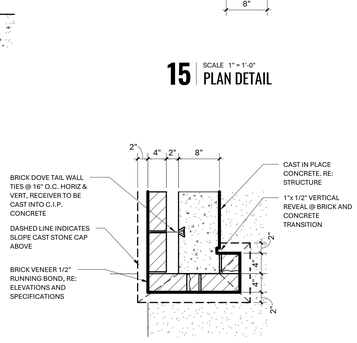
PLAN DETAIL



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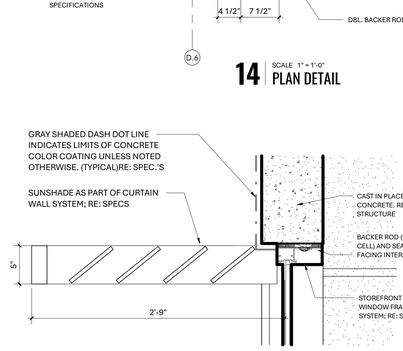
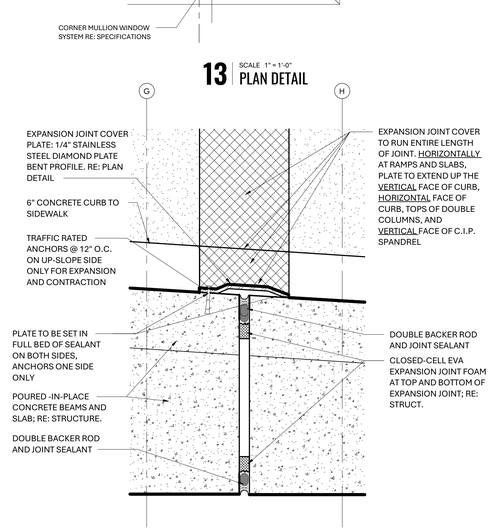
PLAN DETAIL



08 SCALE 1 1/2" = 1'-0"
SECTION DETAIL



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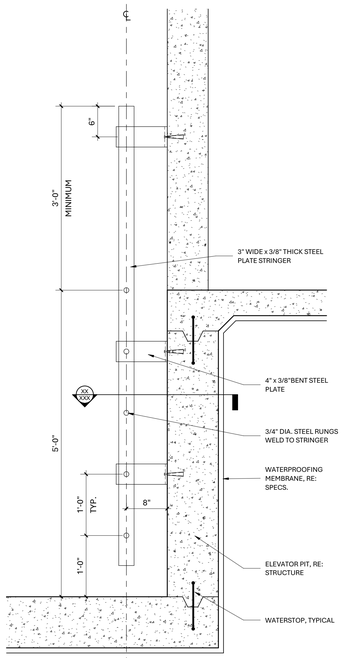
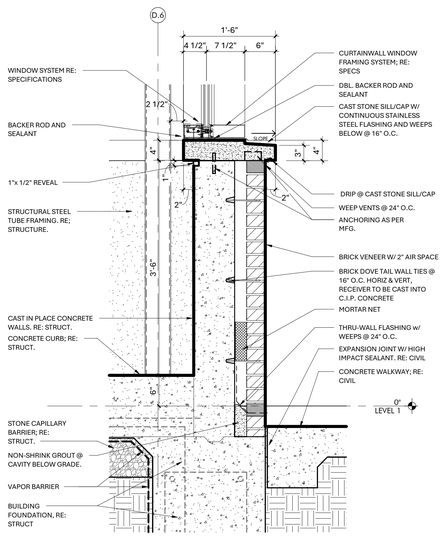
SECTION DETAIL



06 SCALE 1" = 1'-0"
ELEVATOR LADDER ELEVATION



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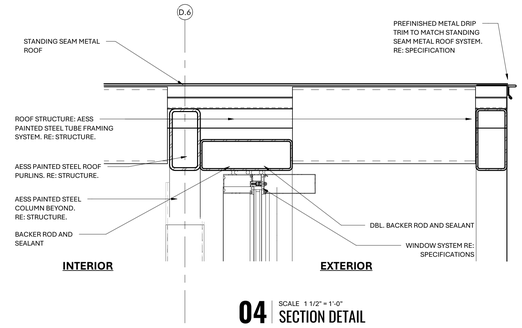
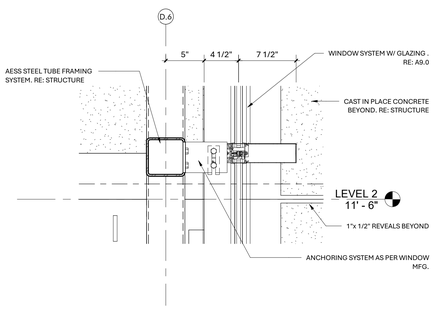
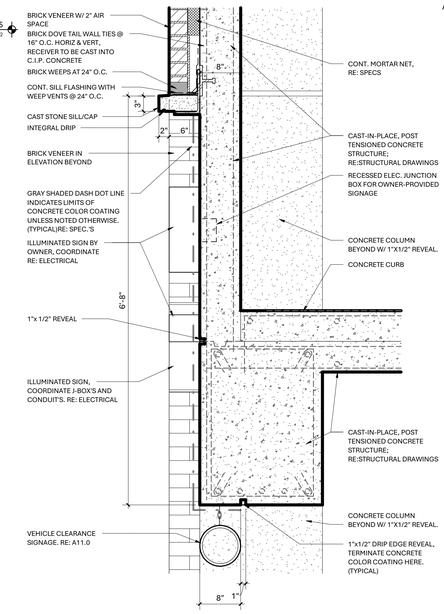
SECTION DETAIL



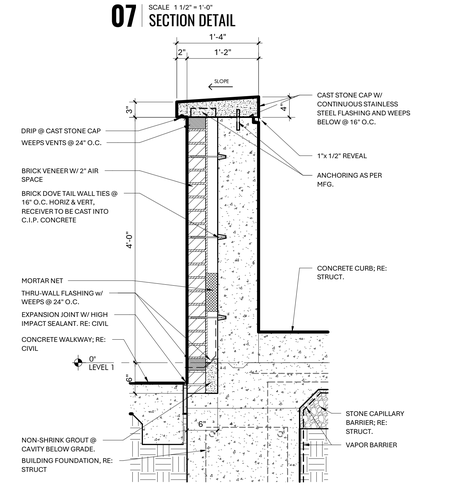
04 SCALE 1 1/2" = 1'-0"
SECTION DETAIL



03 SCALE 1 1/2" = 1'-0"
SECTION DETAIL



02 SCALE 1" = 1'-0"
SECTION DETAIL - DRIVE



01 SCALE 1" = 1'-0"
SECTION DETAIL - CAST STONE

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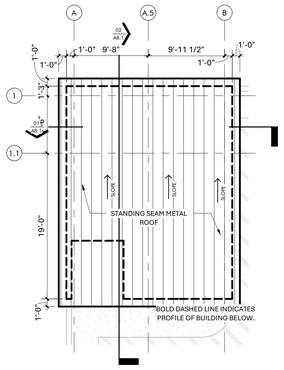
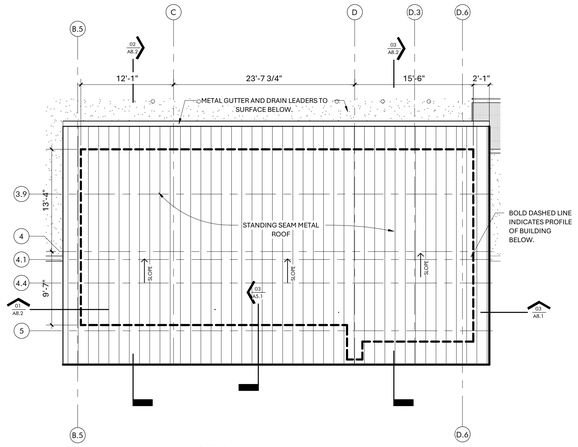
ENLARGED SECTION & PLAN DETAILS

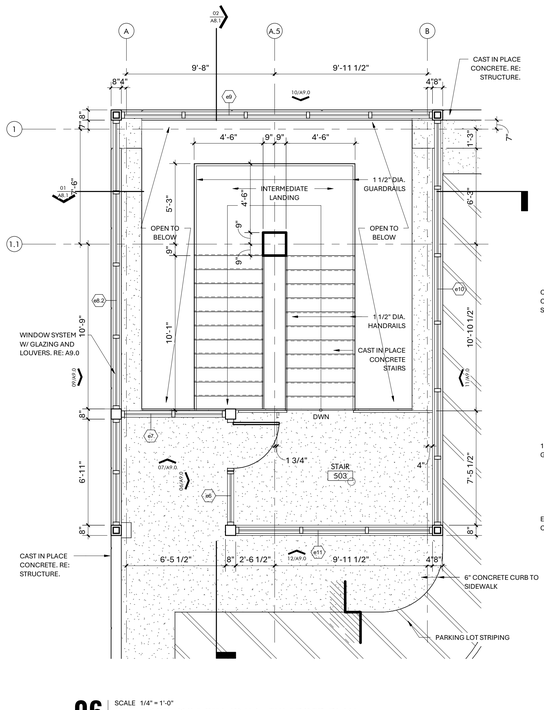
A6.0



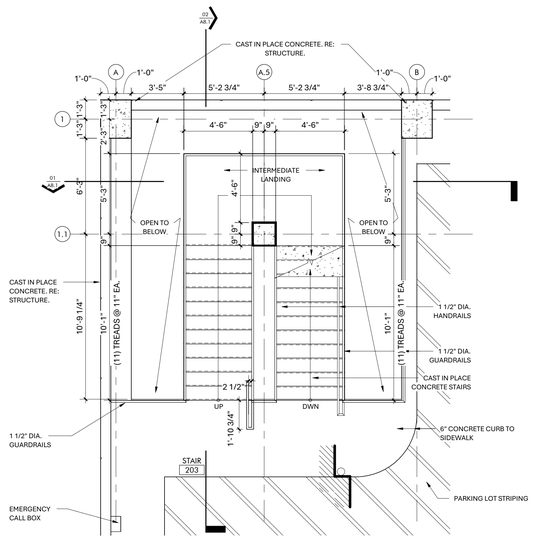
08 SCALE 1/8" = 1'-0"
STAIR 103 ENLARGED PLAN - ROOF



07 SCALE 1/8" = 1'-0"
LOBBY ENLARGED PLAN - ROOF



06 SCALE 1/4" = 1'-0"
STAIR 103, (104 SIM./O.H.), ENLARGED PLAN - LEVEL 5



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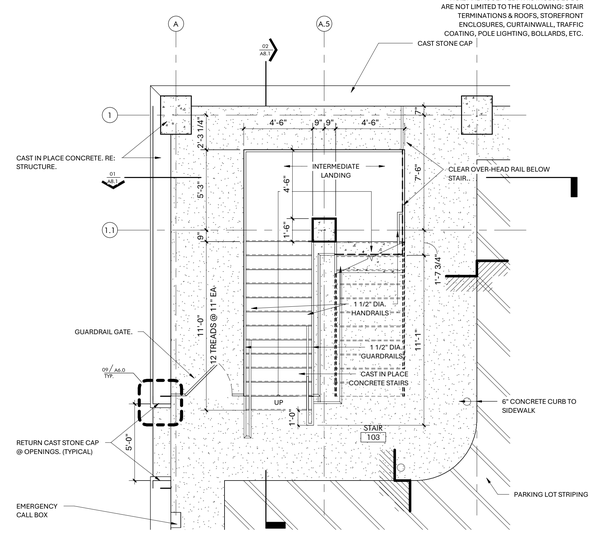
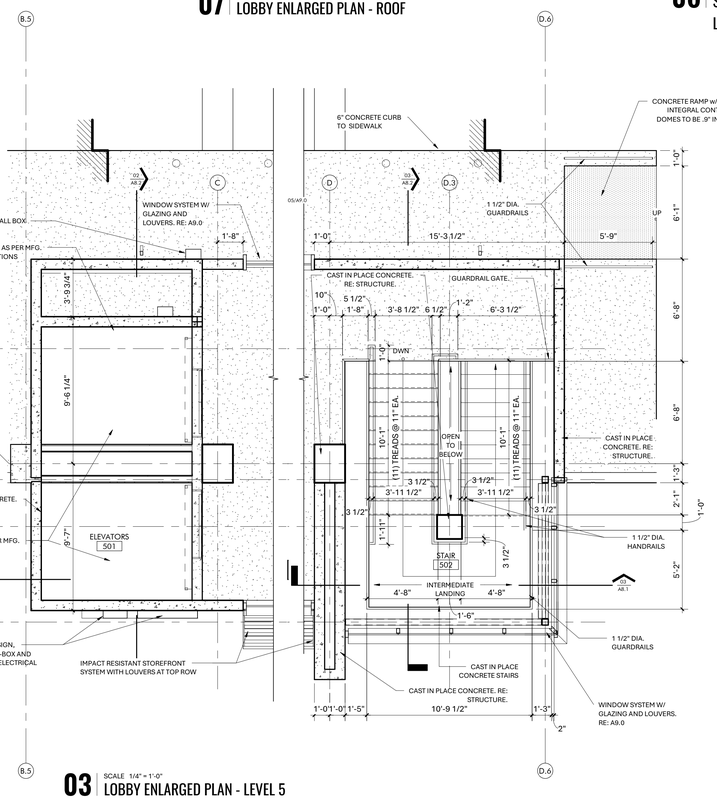
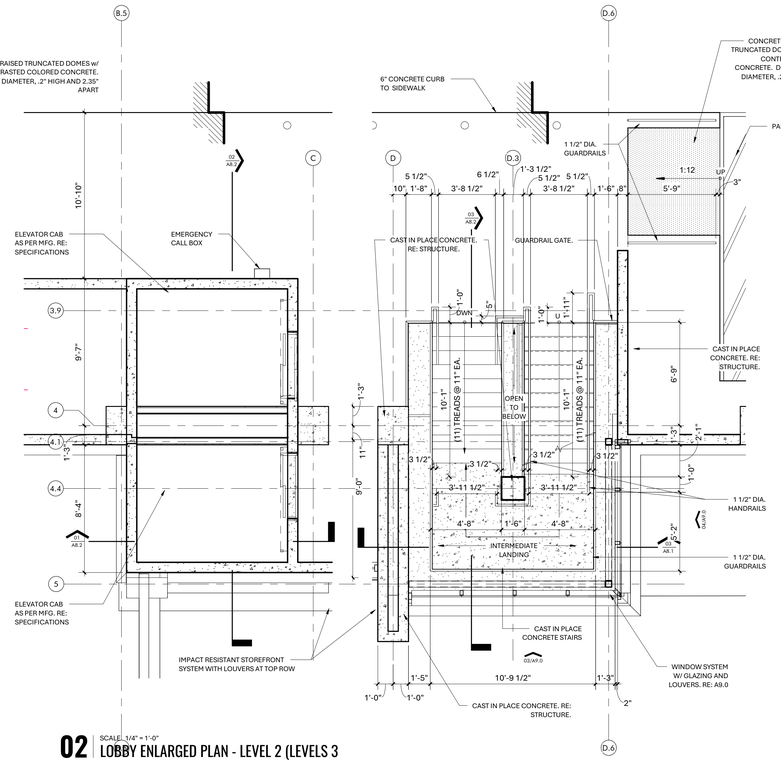
STAIR 103, (104 SIM./O.H.), ENLARGED PLAN - LEVEL 2-4



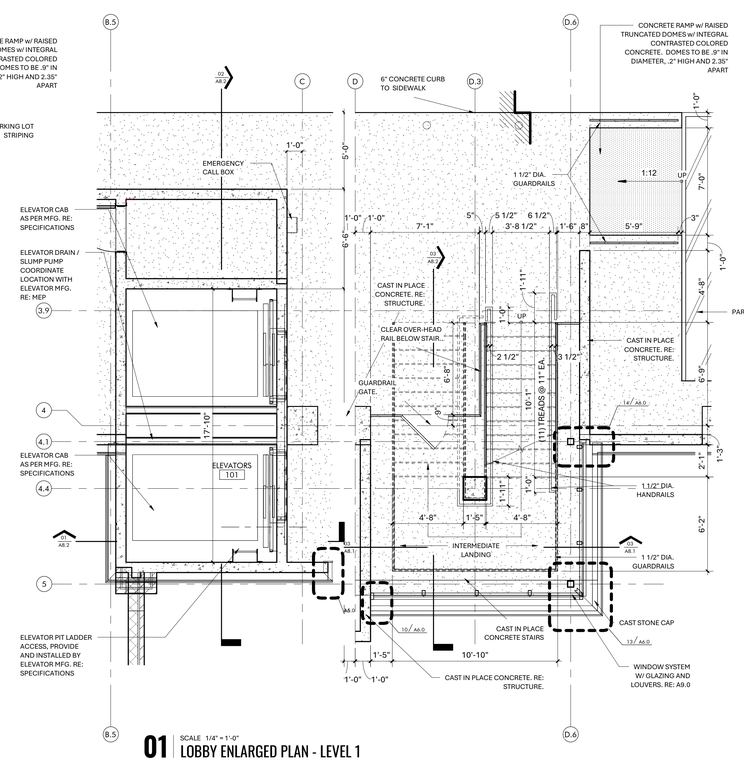
04 SCALE 1/4" = 1'-0"
STAIR 103, (104 SIM./O.H.), ENLARGED PLAN - LEVEL 1



03 SCALE 1/4" = 1'-0"
LOBBY ENLARGED PLAN - LEVEL 5



02 SCALE 1/4" = 1'-0"
LOBBY ENLARGED PLAN - LEVEL 2 (LEVELS 3 AND 4 TYPICAL)



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LOBBY ENLARGED PLAN - LEVEL 1

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ENLARGED STAIR AND ELEVATOR PLANS

A8.0

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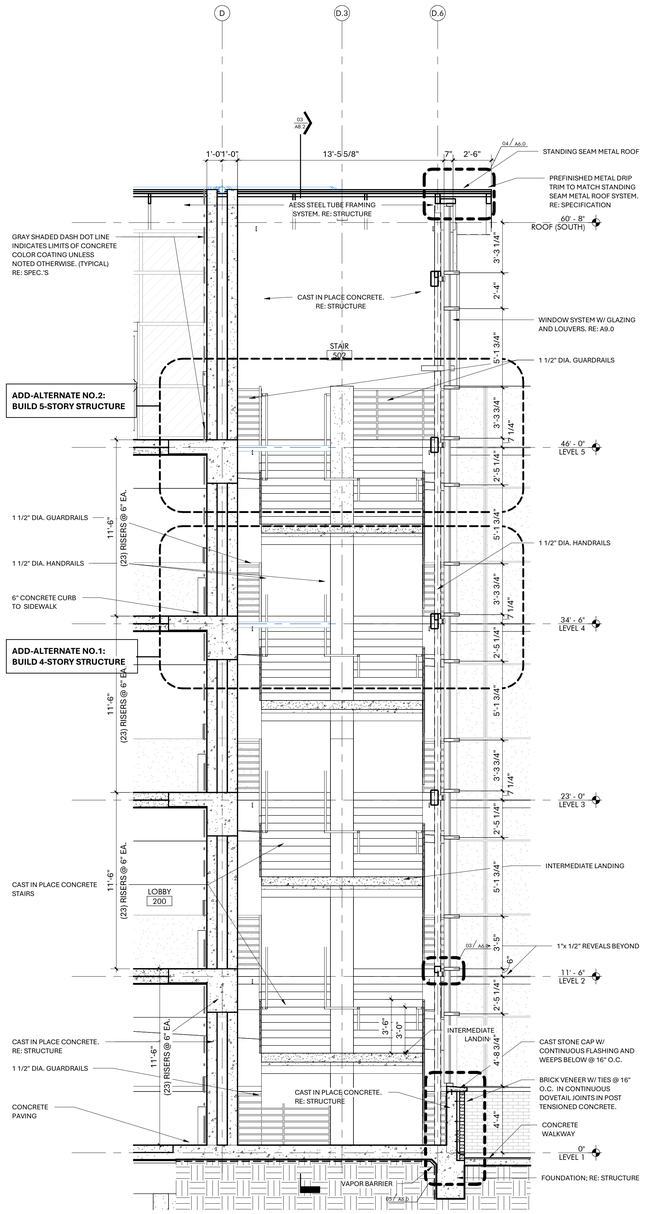
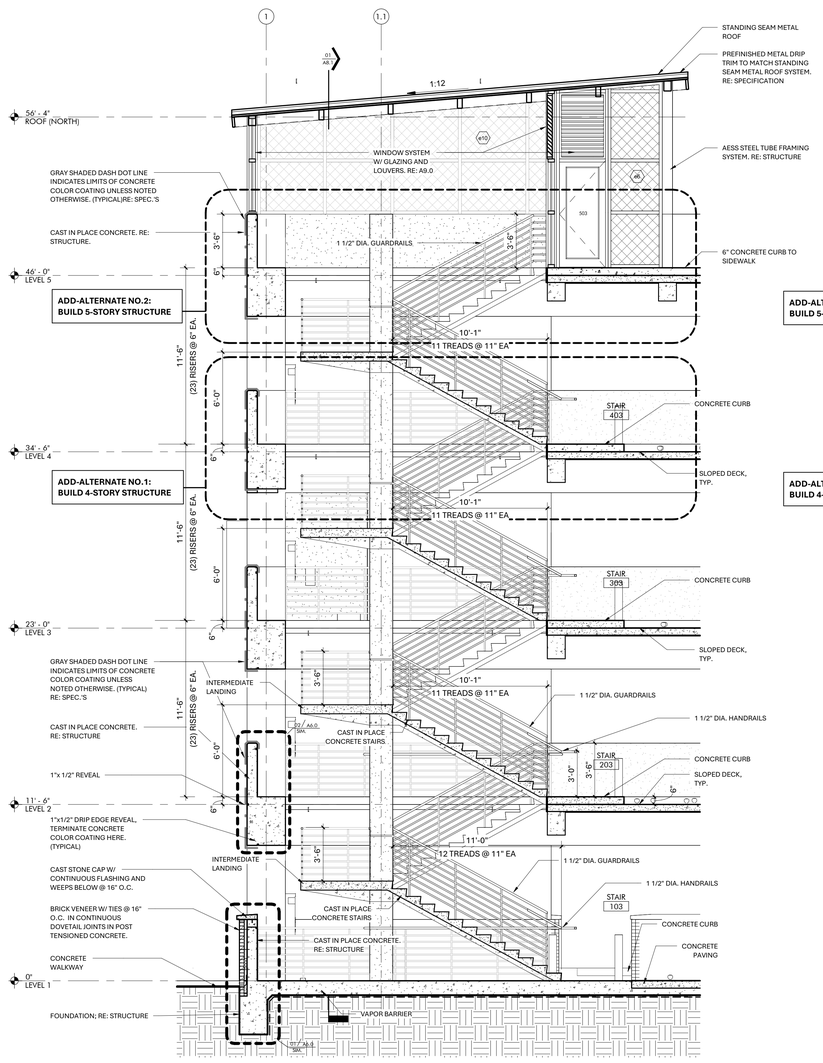
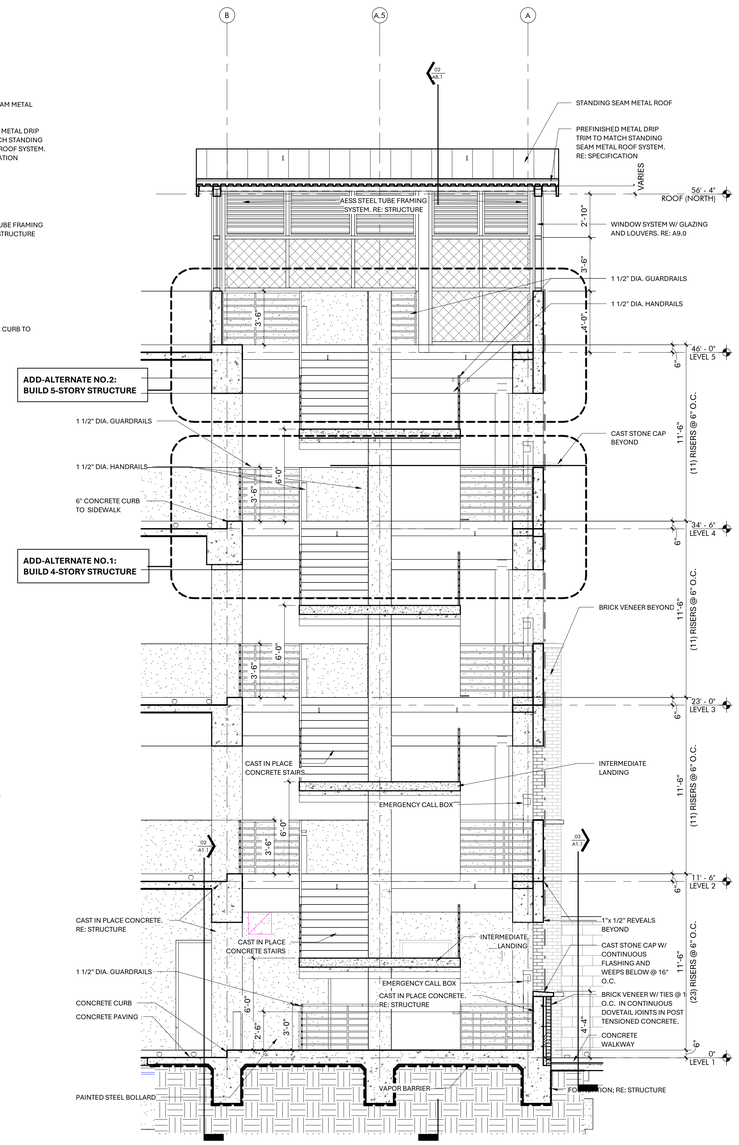


03 SCALE 1/4" = 1'-0"
LOBBY STAIR SECTION



02 SCALE 1/4" = 1'-0"
STAIR 103 SECTION



01 SCALE 1/4" = 1'-0"
STAIR 103 SECTION

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STAIR SECTIONS

A8.1

ADD-ALTERNATE NOTE

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REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

NOTE:
ALL DETAILS AND DRAWINGS IN THESE CONTRACT DOCUMENTS ILLUSTRATE BOTH ADD-ALTERNATES FOR A COMPLETE FIVE-LEVEL PARKING GARAGE.

BE ADVISED:
ALL DETAILS AND ITEMS SHOWN AT THE TOP LEVEL ARE PART OF THE CONTRACT FOR ADD-ALTERNATE NO.2 AND ARE INCLUDED, REGARDLESS IF ADD-ALTERNATE NO.1 OR NO.2 ARE ACCEPTED. THIS INCLUDES BUT ARE NOT LIMITED TO: PARAPETS, EXPANSION TERMINATIONS & ROOFS, STOREFRONT ENCLOSURES, CURTAINWALL, TRAFFIC COATING, CELL EDITING, BALUSTERS, ETC.

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

North Oaks Health System

washer hill lipscomb
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catalanlic. #0019811 | lic. #37633

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CONSTRUCTION DOCUMENTS
09.09.2026
26-020

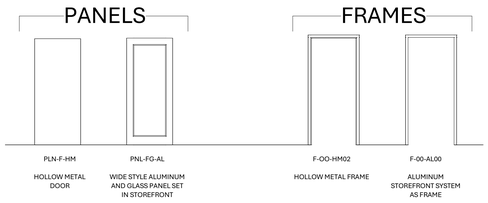
STAIR & ELEVATOR SECTIONS

A8.2

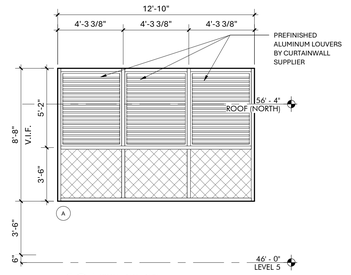
WHLC ARCHITECTURE

DOOR SCHEDULE

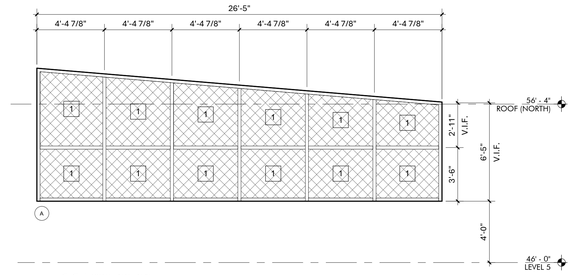
NO.	ROOM NAME	RATING (MINS)	PANEL					HEIGHT	FRAME		COMMENTS
			NO. OF PANELS	PANEL 1 TYPE	PANEL 2 TYPE	WIDTH			FRAME TYPE	FRAME DEPTH	
						PANEL 1	PANEL 2				
106A	ELECTRICAL	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
106B	ELEV. CNTRL	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
106C	CRAWL SPACE	0	2	PNL-F-HM	PNL-F-HM	3' - 1 7/32"	3' - 1 7/32"	4' - 6"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
107	STORAGE	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
108	SPRINK. RISER	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
202	STORAGE	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
302	DATA	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
305	DATA	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
402	STORAGE	0	1	PNL-F-HM		3' - 0"		7' - 0"	F-00-HM02	9"	Ensure to install exterior weather seals and thresholds
503	STAIR	0	1	PNL-FG-AL1 : PNL-FG-AL 2		3' - 0"		7' - 0"	F-00-AL00	6"	Ensure to install exterior weather seals and thresholds
504	STAIR	0	1	PNL-FG-AL1 : PNL-FG-AL 2		3' - 0"		7' - 0"	F-00-AL00	6"	Ensure to install exterior weather seals and thresholds



14 SCALE 1/4" = 1'-0" | DOOR LEGEND



12 SCALE 1/4" = 1'-0" | e11



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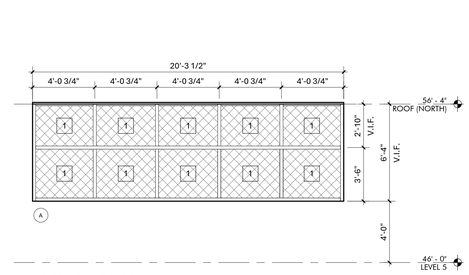

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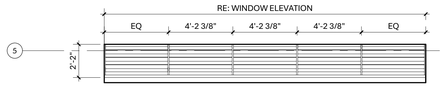
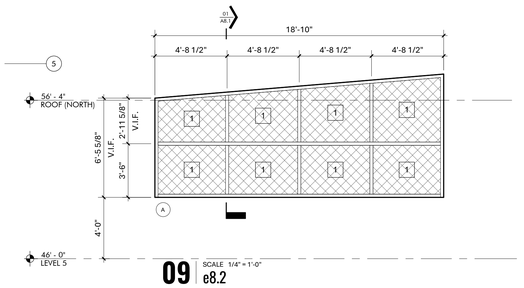
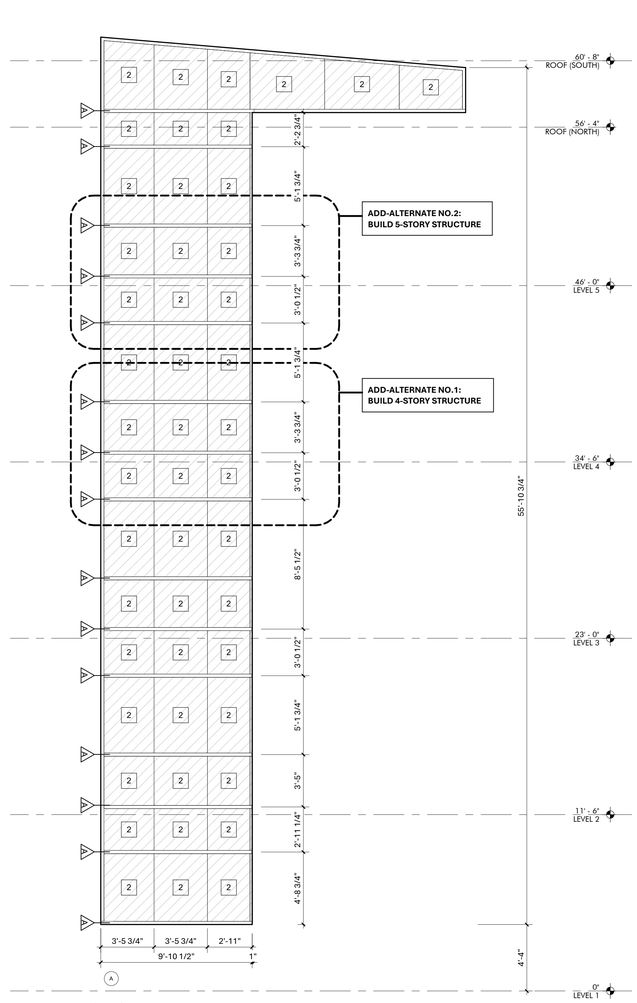


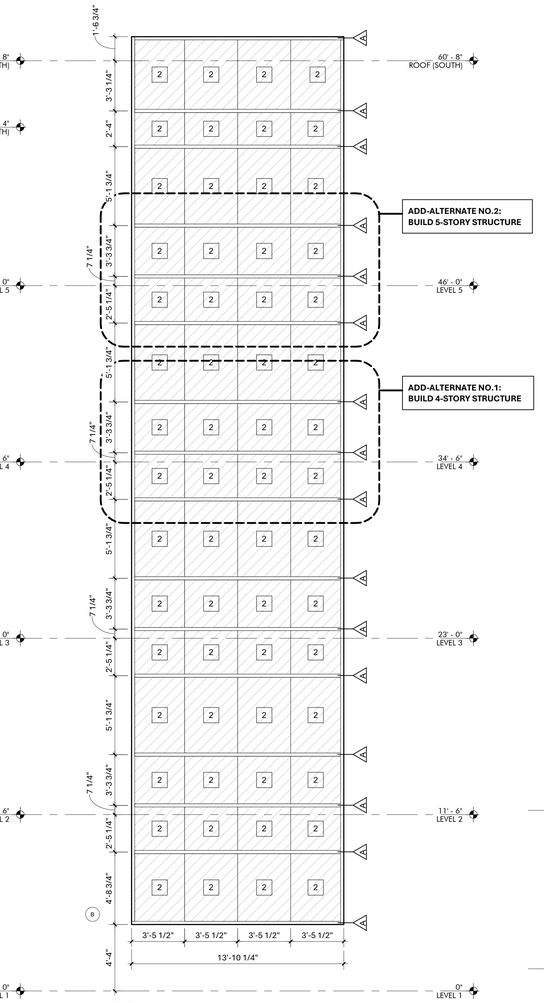
13 SCALE 1/4" = 1'-0" | TYPICAL SUNSHADE DETAIL



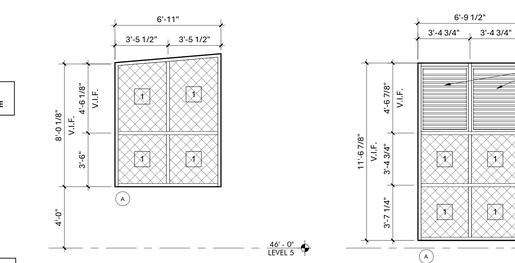
09 SCALE 1/4" = 1'-0" | e8.2



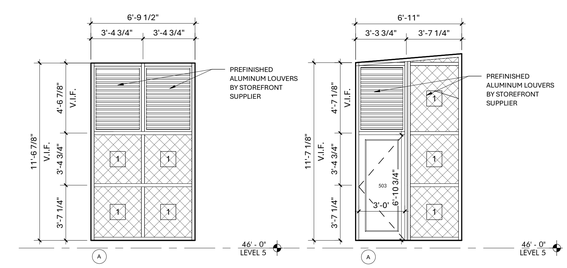
04 SCALE 1/4" = 1'-0" | e4



03 SCALE 1/4" = 1'-0" | e3

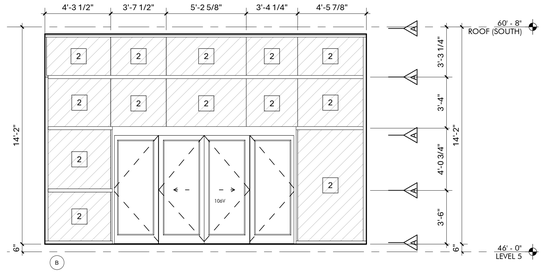


08 SCALE 1/4" = 1'-0" | e8.1

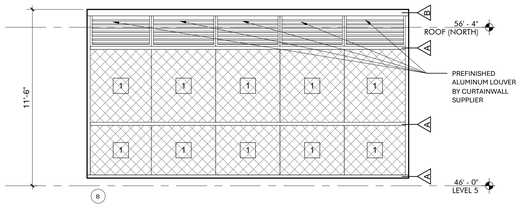


07 SCALE 1/4" = 1'-0" | e7

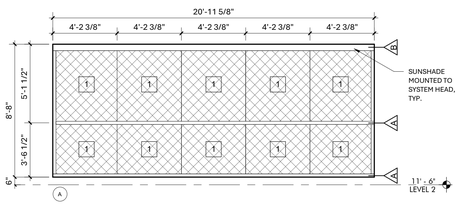
06 SCALE 1/4" = 1'-0" | e6



05 SCALE 1/4" = 1'-0" | e5



02 SCALE 1/4" = 1'-0" | e2



01 SCALE 1/4" = 1'-0" | e1

symbol legend

- glass type, re: "glass types" below and specs
- window frame system, re: "frame types" below and specs
- mullion cover size
- window identification number, re: plans and elevations for locations

glass types / metal panel

- 1 insulated blue tint vision glass, re: specs
- 2 insulated green tint vision glass, re: specs

mullion cover size

- a 4" exterior mullion cover
- b aluminum sunshade by storefront manufacturer; re: specs

hatch legend

- insulated blue tint vision glass, re: specs
- insulated green tint vision glass, re: specs

frame types

- A storefront type A, re: specs
- B curtain wall type B, re: specs

general notes

overall dimensions are given for rough openings

prior to fabrication, all door and window openings to be field verified to meet manufactures tolerances for head, jamb and sill conditions

all curtain wall framing, storefront framing, brake metal enclosures, gypsum board receivers and aluminum extrusions are to have matching finish unless noted otherwise

all glazing shall conform to large and small missile impact resistance ratings as mandated by governing authorities having jurisdiction over the project side

re: A10.1 for typical waterproofing details regarding head, jamb, and sill details

glazing shall be tempered where required by code

scale

1/4" = 1'-0"

unless otherwise noted, glazing elevations are shown from exterior or hall side

ADD-ALTERNATE NOTE

ADD-ALTERNATE NO.1
REQUIRES THE CONTRACTOR TO ADD A 4TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

ADD-ALTERNATE NO.2
REQUIRES THE CONTRACTOR TO ADD A 5TH FLOOR DECK TO THE PARKING GARAGE STRUCTURE

NOTE:
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BE ADVISED:
ALL DETAILS AND ITEMS SHOWN FOR THE TOP LEVEL ARE PART OF THE CONTRACT FOR THE TOP LEVEL AND ARE TO BE INSTALLED, REGARDLESS IF ADD-ALTERNATE NO.1 OR NO.2 ARE ACCEPTED. THIS INCLUDES BUT ARE NOT LIMITED TO THE FOLLOWING: STAIR TERMINATIONS & ROOFS, STOREFRONT ENCLOSURES, CURTAINWALL, TRAFFIC COATING, POLE LIGHTING, BOLLARDS, ETC.

WHLC ARCHITECTURE

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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CONSTRUCTION DOCUMENTS
09.09.2026
26-020

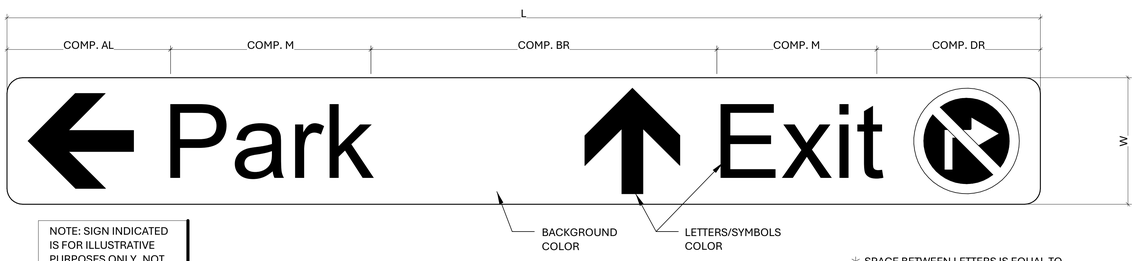
DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS

A9.0

SIGN SCHEDULE

MARK	SIZE W	SIZE L	TEXT/MESSAGE	SIGN TYPE	BACKGROUND COLOR	LETTERS COLOR	REMARKS
S1	10"∅	8'-0"	8'-8" Clearance 8'-8"	PVC	WHITE	BLACK	GENERAL CONTRACTOR TO VERIFY OVERHEAD CLEARANCES PRIOR TO SIGN MNF.
S2	1'-0"	8'-0"	Entrance	EP	PER OWNER	PER OWNER	MOUNT BOTTOM OF SIGN MIN. 2" ABOVE OPENING
S3	1'-0"	8'-0"	Do Not Enter	EP	BLACK	WHITE	MOUNT BOTTOM OF SIGN MIN. 2" ABOVE OPENING
S4				R			VAN WHERE DESIGNATED, MOUNT MIN. 60" A.F.F.
S5	1'-0"	8'-0"	Van Accessible Entrance	EP	PER OWNER	PER OWNER	MOUNT BOTTOM OF SIGN MIN. 2" ABOVE OPENING
S6	1'-0"	4'-0"	Exit	V	BLACK	WHITE	
S7	1'-0"	4'-0"	Park	V	BLACK	WHITE	
S8	10"∅	10'-0"	8'-8" Clearance 8'-8"	PVC	WHITE	BLACK	GENERAL CONTRACTOR TO VERIFY OVERHEAD CLEARANCES PRIOR TO SIGN MNF.

EXAMPLE SIGN



NOTE: SIGN INDICATED IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT IN CONTRACT

✳ SPACE BETWEEN LETTERS IS EQUAL TO VERT. STROKE WIDTH OF LETTERS (UNLESS REQUIRED TO MAKE SIGN DIMENSIONS WORK ±25% OF STROKE WIDTH)

SIGNAGE GENERAL NOTES

1. LETTERFORMS SHALL BE HELVETICA MEDIUM, OF SIZE AS SHOWN ON SIGN SCHEDULE, UNLESS NOTED. UPPER AND LOWER CASE SHALL BE USED ON ALL DIRECTIONAL TRAFFIC AND PEDESTRIAN SIGNS, UNLESS NOTED.

2. SIGN CONTRACTOR SHALL REVIEW SIGN LOCATIONS PRIOR TO INSTALLATION WITH OWNER/ENGINEER TO COORDINATE WITH LIGHTING SYSTEM. SIGN AND LIGHT LOCATIONS PER SPECIFICATIONS.

3. SIGNS SHALL BE MOUNTED LEVEL AND PLUMB, UNLESS NOTED.

4. WHERE TWO (2) SIGNS ARE MOUNTED BACK TO BACK, SMALLEST L DIMENSION SHALL INCREASE TO MATCH LARGEST L DIMENSION.

5. MAXIMUM BOLT INSERT EMBEDMENT LENGTH 1-1/4", UNLESS NOTED.

6. DO NOT SCALE DRAWINGS.

7. BACKS AND EDGES OF ALL ALUMINUM SIGNS MOUNTED DIRECTLY TO STRUCTURE SHALL BE PAINTED (SIGN BACKGROUND COLOR) TO PREVENT CATHODIC REACTION.

8. SEE ARCHITECTURAL PLANS FOR PARKING LAYOUT AND SIGN LOCATIONS.

9. ILLUMINATED SIGNS TO BE U.L. LISTED OR APPROVED EQUIVALENT.

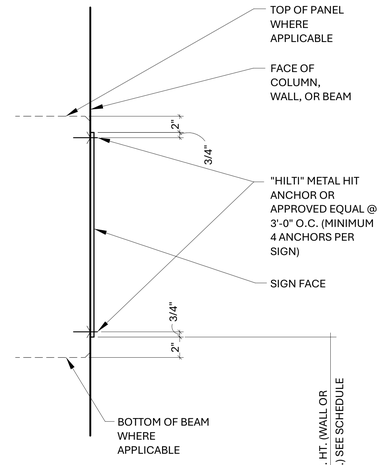
10. REFLECTIVE GRAPHICS AND COPY COLORS ARE 3M. ALL NON-REFLECTIVE COLORS ARE PANTONE.

FEDERAL SIGNS

R1-1	STOP
R1-2	YIELD
R3-1	NO RIGHT TURN
R3-2	NO LEFT TURN
R5-1	DO NOT ENTER
R5-1a	WRONG WAY
W17-1	SPEED HUMP
W11-2	PEDESTRIAN CROSSWALK

SIGN TYPES LEGEND

MARK	TYPE
V -	VEHICULAR (REFLECTIVE)
R -	REGULATORY (REFLECTIVE)
PVC -	PVC CLEARANCE
EP -	EXTERIOR PANEL

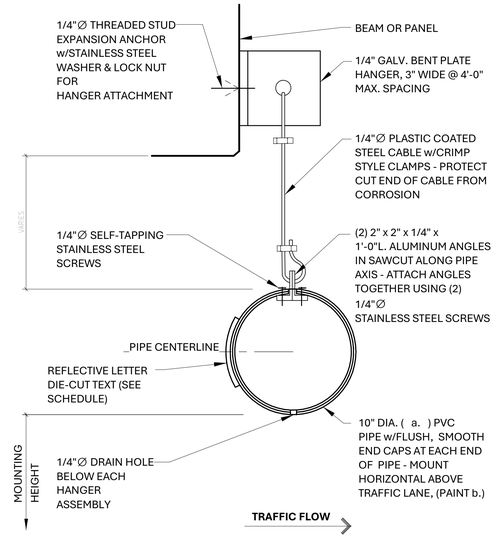


CONTRACTOR NOTE:

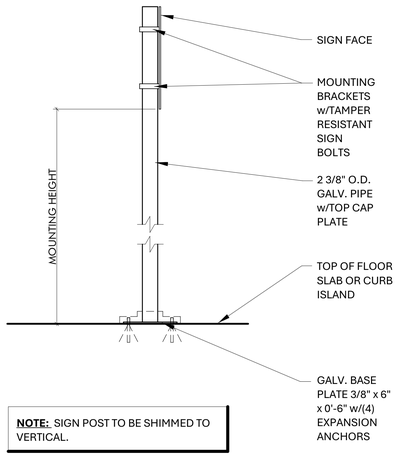
1. DO NOT OVERDRIVE ANCHORS. OVERDRIVEN ANCHORS WILL DAMAGE SIGNS.

2. WHERE TOP OF PANEL OR BOTTOM OF BEAM CONDITION OCCURS; MAINTAIN A CONSTANT 2" DIMENSION FROM TOP OF PANEL OR BOTTOM OF BEAM TO SIGN AS SHOWN.

05 SCALE 1" = 1'-0" SIGN DETAIL

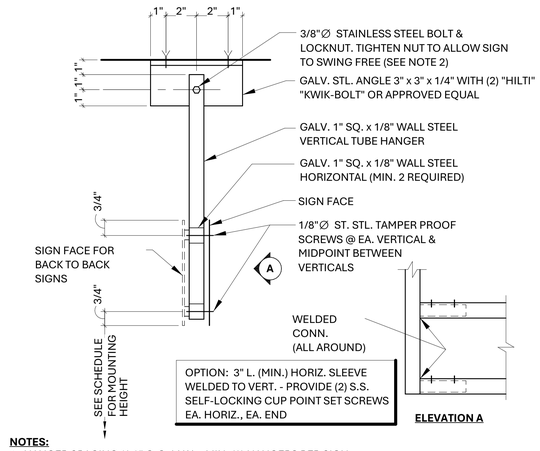


04 SCALE 1" = 1'-0" SIGN DETAIL



NOTE: SIGN POST TO BE SHIMMED TO VERTICAL.

03 SCALE 1" = 1'-0" SIGN DETAIL

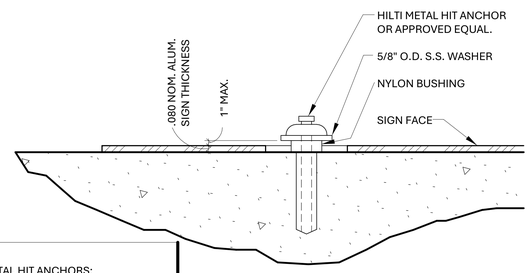


NOTES:
1. HANGER SPACING 3'-0" O.C. MAX. - MIN. (2) HANGERS PER SIGN

2. OPTIONAL HANGER CONNECTION - 3/8"∅ STAINLESS STEEL CLEVIS PIN w/HAIRPIN COTTER

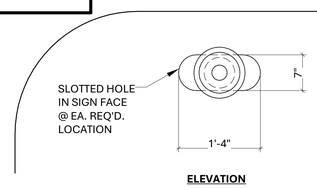
3. MAX. SIGN CANTILIVER 1'-0"

02 SCALE 1" = 1'-0" SIGN DETAIL



NOTES:
1. DO NOT OVERDRIVE METAL HIT ANCHORS; OVERDRIVEN ANCHORS WILL DAMAGE BUSHING & SIGNS.
2. USE THIS MOUNTING DETAIL ON BUMPER WALLS, COLUMNS, PANELS & BEAMS AT TOP TIER & IN CONDITIONS WHERE SIGN FACE IS EXPOSED TO DIRECT SUNLIGHT.

SECTION



ELEVATION

01 SCALE 1" = 1'-0" SIGN DETAIL

WHLC ARCHITECTURE

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

washer hill lipscomb cabaniss architecture, llc

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www.whlcarchitecture.com

CONSTRUCTION DOCUMENTS
09.09.2026
26-020

SIGN DETAILS

A11.0

1 GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY
3. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS
4. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED
6. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS
7. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS
8. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED
9. LOCATE ALL TEMPERATURE PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY
10. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED
11. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
12. COORDINATE ALL EQUIPMENT CONNECTION WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
13. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION
14. MINIMUM CONCRETE PAD THICKNESS SHALL BE 4 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS
15. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED
16. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION

2 PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE
2. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEMS BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES
3. UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS, ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE SAME SIZE AS NOTED ON THE PLUMBING FIXTURE SCHEDULE
4. UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED
5. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE
6. WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS
7. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING
8. ALL PIPING SHALL CLEAR DOORS AND WINDOWS
9. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS
10. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS
11. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION
12. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTION TO EQUIPMENT AND CONTROLS
13. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS
14. UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC
15. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED (EDIT HORIZONTAL CLEANOUT SPACING TO SUIT CODE AND PROJECT REQUIREMENTS)
16. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR BUILDING DRAINS 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR BUILDING DRAINS LARGER THAN 6 INCHES
17. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS)
18. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED
19. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER
20. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS

3 SYMBOL LEGEND

- NEW WORK
- EXISTING WORK TO REMAIN
- EXISTING WORK TO BE DEMOLISHED
- NEW EQUIPMENT OR FIXTURE
- MATCHLINE (1 / M101)
- GRID LINE (1)
- SECTION SYMBOL (1 / M101 — SHEET NUMBER; SECTION)
- DETAIL SYMBOL (1 / M101 — SHEET NUMBER; DETAIL)
- DIFFUSER TAG (A 500 / 10"ø — NECK SIZE; MARK; CFM)
- SHEET REFERENCE TAG (RE: 1 / M101 — SHEET NUMBER; VIEW NUMBER)
- GENERAL NOTE (1)
- DEMO NOTE (1)
- REVISION TAG (1)
- TIE INTO
- THERMOSTAT SYMBOL (T$_{RM}$)

4 DUCTWORK LEGEND

- INTERNALLY INSULATED DUCT
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- RECTANGULAR SUPPLY DUCT UP
- RECTANGULAR SUPPLY DUCT DN
- RECTANGULAR RETURN DUCT UP
- RECTANGULAR RETURN DUCT DN
- RECTANGULAR EXHAUST DUCT UP
- RECTANGULAR EXHAUST DUCT DN
- ROUND SUPPLY DUCT UP
- ROUND SUPPLY DUCT DN
- ROUND RETURN DUCT UP
- ROUND RETURN DUCT DN
- ROUND EXHAUST DUCT UP
- ROUND EXHAUST DUCT DOWN
- MITERED 90º ELBOW WITH DOUBLE DEFLECTION TURNING VANES
- MITERED 45º ELBOW WITH DOUBLE DEFLECTION TURNING VANES
- RADIUS ELBOW
- RECTANGULAR TRANSITION; SYMMETRIC
- RECTANGULAR TRANSITION; ASYMMETRIC
- DUCT WITH FLEXIBLE CONNECTION
- 45º LEAD-IN WITH MANUAL VOLUME DAMPER
- 45º RECTANGULAR TAP
- CHANGE IN RECTANGULAR DUCT ELEVATION; RISE
- CHANGE IN ROUND DUCT ELEVATION; DROP
- DUCT WITH MANUAL VOLUME DAMPER
- DUCT WITH BACK DRAFT DAMPER
- DUCT WITH FIRE DAMPER
- DUCT WITH SMOKE DAMPER
- DUCT WITH COMBINATION FIRE/SMOKE DAMPER
- DUCT WITH MOTORIZED DAMPER
- DUCT WITH HUMIDIFIER
- DUCT WITH ACCESS DOOR
- R/A GRILLE; SEE SCHEDULE FOR SIZE
- E/A GRILLE; SEE SCHEDULE FOR SIZE
- 4-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 3-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 2-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 1-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE

5 PIPING LEGEND

- SANITARY VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- SS — SANITARY SEWER PIPING
- GW — GREASE WASTE PIPING
- SD — STORM DRAIN PIPING
- FW — FIRE WATER PIPING
- G — GAS PIPING
- VAC — VACUUM PIPING
- O — OXYGEN PIPING
- N — NITROGEN PIPING
- A — AIR PIPING
- NO — NITROUS OXIDE PIPING
- 90º ELBOW
- 45º ELBOW
- TRANSITION
- 45º WYE
- SANITARY TEE
- COMBINATION WYE AND 8TH
- COUPLING
- DOUBLE SANITARY VENT
- DOUBLE SANITARY TEE
- DOUBLE SANITARY LONG SWEEP TEE
- DOUBLE WYE
- CAP
- HOSE BIBB
- DOWNSPOUT NOZZLE
- BALL VALVE
- CHECK VALVE
- GATE VALVE
- DS — DOMESTIC WATER SHUTOFF RE: DETAIL
- SOLENOID VALVE
- GASCOCK
- INLINE RECIRCULATION PUMP

6 FIRE PROTECTION LEGEND

- SPRINKLER RISER
- SIAMESE CONNECTION
- CONCEALED POPOUT HEAD - WET PIPE
- UPRIGHT PENDANT HEAD - WET PIPE
- PENDANT HEAD - WET PIPE
- UPRIGHT PENDANT HEAD - ANTI-FREEZE
- PENDANT HEAD - ANTI-FREEZE
- CONCEALED POPOUT HEAD - DRY PIPE
- UPRIGHT PENDANT HEAD - DRY PIPE
- PENDANT HEAD - DRY PIPE

7 MECHANICAL NOTES

1. DUCTWORK DIMENSIONS GIVEN ARE METAL TO METAL
2. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR BRANCH DUCT SIZE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS
3. REFER TO MECHANICAL SCHEDULE SHEET FOR EQUIPMENT, DIFFUSER, AND GRILLE SCHEDULES
4. INSTALL TRANSITION DUCT FROM INLET AND OUTLET OF EQUIPMENT TO DUCT SIZE SHOWN ON PLANS; CONSULT EQUIPMENT MANUFACTURER FOR INLET AND OUTLET SIZE
5. ALL DUCT ELBOWS, BENDS, AND TEES SHALL BE PROVIDED WITH DOUBLE THICKNESS TURNING VANES OR RADIUS ELBOWS UNLESS SHOWN OR NOTED OTHERWISE. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS OF 1.5 TIMES THE WIDTH OF THE DUCT
6. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR COORDINATION WITH MECHANICAL DRAWINGS. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER
7. EQUIPMENT SIZES AND SERVICE SPACE REQUIREMENTS VARY AMONG MANUFACTURERS; CONSULT MANUFACTURER DATA FOR SPACE REQUIREMENTS AND VERIFY SPACE ADEQUACY
8. DO NOT BLOCK TUBE PULL, FILTER PULL, COIL PULL, SAFETY OR SERVICE CLEARANCE SPACE ON EQUIPMENT WITH PIPING, DUCTWORK, ETC. FLANGED OR REMOVABLE SECTIONS MAY BE USED IN SOME INSTANCES WHERE TIGHT CLEARANCES EXIST; VERIFY WITH ARCHITECT IN SUCH CASE
9. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN DRAWINGS FOR COORDINATION OF MECHANICAL ITEMS TO BE INSTALLED IN CEILING AND MAKE MINOR DUCT MODIFICATIONS TO SUIT
10. PROVIDE ESCUTCHEONS AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES WALL
11. ROOM NUMBERS AND NAMES ON THE CONSTRUCTION DOCUMENTS ARE FOR CONSTRUCTION PURPOSES ONLY AND CAN CHANGE DURING CONSTRUCTION; OBTAIN FINAL ROOM NUMBERS AND NAMES FROM THE ARCHITECT
12. WHERE CONCEALED BY INACCESSIBLE FINISHES, PROVIDE ACCESS DOORS TO ALL VALVE BOXES, VALVES, DUCT STATIC PRESSURE SENSORS, MANUAL VOLUME DAMPERS, FIRE DAMPERS, FIRE/SMOKE CONTROLS, AIR VENTS, DRAIN CONNECTIONS AND ALL OTHER ITEMS REQUIRING PERIODIC MAINTENANCE, OPERATION, OR ADJUSTMENT. ACCESS DOORS ARE TO BE SIZED AND LOCATED FOR EASY PERFORMANCE OF THE FUNCTION INTENDED. COORDINATE LOCATION OF ACCESS DOORS WITH ALL TRADES AFFECTED
13. ALL EQUIPMENT INSTALLATIONS SHALL BE INSTALLED TO MEET THE INSTALLATION AND OPERATION REQUIREMENT OF THE EQUIPMENT MANUFACTURER AND ALL CODES AND REGULATIONS IN EFFECT IN THE AREA WHERE WORK IS DONE
14. THE CONDENSATE DRAIN LINE SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE FLOOR DRAIN; ELEVATE UNIT TO ACCOMMODATE P-TRAP
15. ALL EQUIPMENT AND DEVICES TO BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF CONTRACT DRAWINGS, SPECIFICATIONS, MANUFACTURERS RECOMMENDATIONS, AND ACCORDING TO CODE
16. ALL EQUIPMENT TO BE TAGGED AND IDENTIFIED ACCORDING TO THE IDENTIFICATION NUMBER OR DESIGNATION ON THE MECHANICAL DRAWING EQUIPMENT SCHEDULES
17. ALL HVAC EQUIPMENT SHALL MEET THE REQUIREMENTS OF ASHRAE STANDARD 90.1-2004
18. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOTE BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS
19. UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) AFF. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION
20. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS
21. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARROVER
22. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECITON TO THE EQUIPMENT UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS
23. UNLESS OTHERWISE NOTED, ALL DUCTOWRK IS OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED
24. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET
25. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS
26. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS
27. REFER TO HVAC SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

8 FIRE PROTECTION NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE FIRE PROTECTION SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND COMPLYING WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND ALL STATE AND LOCAL REGULATIONS
2. PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE BUILDING, COMPLETE IN ALL RESPECTS AND READY FOR OPERATION INCLUDING ALL TEST AND DRAIN LINES, PRESSURE GAUGES, HANGERS AND SUPPORTS, SIGNS, AND OTHER STANDARD APPURTENANCES. WIRING SHALL BE PROVIDED UNDER THE ELECTRICAL DIVISION.
3. SPRINKLER HEAD LAYOUT AND PIPING ARE SHOWN IN APPROXIMATE LOCATIONS; EXACT NUMBER OF HEADS REQUIRED, PIPING SIZES, ETC SHALL BE AS SUBMITTED IN THE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SUBMITTAL TO THE STATE FIRE MARCHAL
4. ALL SHUTOFF VALVES IN SPRINKLER, STANDPIPE, AND COMBINED SYSTEMS SHALL BE APPROVED INDICATING TYPE.
5. COORDINATE SPRINKLER HEAD LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR MODIFICATIONS TO SUIT.
6. SPRINKLERS INSTALLED IN CEILING OF FINISHED AREAS SHALL BE SYMMETRICAL IN RELATION TO CEILING SYSTEM COMPONENTS AND CENTERED IN THE CEILING TILE.
7. HVAC EQUIPMENT, SUPPLY DUCT, EXHAUST DUCT, AND PIPING SHALL HAVE PRECEDENCE IN DETERMINING EXACT HEIGHTS AND LOCATION FOR ALL SPRINKLER HEADS AND PIPING MAINS

9 ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	BTU	BRITISH THERMAL UNIT	CONC	CONCRETE	DN	DOWN	EWC	ELECTRIC WATER COOLER	FPI	FINS PER INCH	LPC	LOW PRESSURE CONDENSATE	MIN	MINIMUM	R/A	RETURN AIR	VD	VOLUME DAMPER
ABV	ABOVE	BTUH	BRITISH THERMAL UNIT/HOUR	CONT	CONTINUATION	DP	PRESSURE DROP	EWT	ENTERING WATER TEMPERATURE	FPM	FEET PER MINUTE	LPS	LOW PRESSURE STEAM	MOCP	MAXIMUM OVERCURRENT PROTECTION	REF	REFRIGERANT	VRV	VARIABLE REFRIGERANT VOLUME
ACC	AIR COOLED CHILLER	CAP	CAPACITY	COP	COEFFICIENT OF PERFORMANCE	DWG	DRAWING	EXH	EXHAUST	FSD	COMBINATION FIRE SMOKE DAMPER	LWB	LEAVING WET BULB TEMPERATURE	MUA	MAKE-UP AIR UNIT	RLA	RATED LOAD AMPS	VTR	VENT THROUGH ROOF
AFF	ABOVE FINISHED ROOF	CAV	CONSTANT AIR VOLUME	CRAH	COMPUTER ROOM AIR HANDLER	DX	DIRECT EXPANSION	FA	FREE AREA (SQUARE FEET)	FT	FEET	LWT	LEAVING WATER TEMPERATURE	NC	NORMALLY CLOSED	RPM	REVOLUTIONS PER MINUTE	W	WATTS
AFR	ABOVE FINISHED ROOF	CC	COOLING COIL	CV	CONSTANT VOLUME	EA	EACH	FC	FLEXIBLE CONNECTION	GPM	GALLONS PER MINUTE	MAV	MANUAL AIR VENT	NIC	NOT IN CONTRACT	RTU	ROOFTOP UNIT	WB	WET BULB
AHU	AIR HANDLING UNIT	CD	CONDENSATE DRAIN	CWR	CHILLED WATER RETURN	E/A	EXHAUST AIR	FCU	FAN COIL UNIT	HC	HEATING COIL	MAX	MAXIMUM	NO	NORMALLY OPEN	S/A	SUPPLY AIR	WCC	WATER COOLED CHILLER
A	AMPS	CDWS	CONDENSER WATER SUPPLY	CWS	CHILLED WATER SUPPLY	EAT	ENTERING AIR TEMPERATURE	FD	FIRE DAMPER	HHWR	HOT WATER RETURN	MBH	1000 BTUH	NPSH	NET POSITIVE SUCTION HEAD	SEN	SENSIBLE		
ARCH	ARCHITECTURAL	CDWR	CONDENSER WATER RETURN	dB	DECIBEL	EF	EXHAUST FAN	FLA	FULL LOAD AMPS	HHWS	HOT WATER SUPPLY	MCA	MINIMUM CIRCUIT AMPACITY	O/A	OUTSIDE AIR	TOT	TOTAL		
BDD	BACKDRAFT DAMPER	CFM	CUBIC FEET PER MINUTE	DB	DRY BULB	ELEC	ELECTRICAL	FLT	FILTER	KW	KILOWATT	MFG	MANUFACTURER	OBD	OPPOSED BLADE DAMPER	V	VOLTS		
BHP	BRAKE HORSEPOWER	CLG	CEILING	DG	DOOR GRILLE	ESP	EXTERNAL STATIC PRESSURE	FPB	FAN POWER BOX	LAT	LEAVING AIR TEMPERATURE	MHP	MOTOR HORSEPOWER	QTY	QUANTITY	VAV	VARIABLE AIR VOLUME		

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS

MECHANICAL/PLUMBING SHEET INDEX

M0.0	MECHANICAL COVER SHEET
M1.0	LEVEL 1 HVAC PLAN
M1.2	LEVEL 2 HVAC PLAN
M1.3	LEVEL 3 HVAC PLAN
M1.4	LEVEL 4 HVAC PLAN ADD ALTERNATE #1
M1.5	LEVEL 5 HVAC PLAN ADD ALTERNATE #2
M2.0	HVAC SCHEDULES AND DETAILS
P1.1	LEVEL 1 PLUMBING PLAN
P1.2	LEVEL 2 PLUMBING PLAN
P1.3	LEVEL 3 PLUMBING PLAN
P1.4	LEVEL 4 PLUMBING PLAN ADD ALTERNATE #1
P1.5	LEVEL 5 PLUMBING PLAN ADD ALTERNATE #2
P1.6	LEVEL 1 UTILITY PLAN
P1.7	LEVEL 2 UTILITY PLAN
P1.8	LEVEL 3 UTILITY PLAN
P1.9	LEVEL 4 UTILITY PLAN ADD ALTERNATE #1
P1.10	LEVEL 5 UTILITY PLAN ADD ALTERNATE #2
P1.11	DOMESTIC WATER PIPING DIAGRAM
P2.0	PLUMBING SCHEDULES & DETAILS
SP1.1	LEVEL 1 SPRINKLER PLAN
SP1.2	LEVEL 2 SPRINKLER PLAN
SP1.3	LEVEL 3 SPRINKLER PLAN
SP1.4	LEVEL 4 SPRINKLER PLAN ADD ALTERNATE #1
SP1.5	LEVEL 5 SPRINKLER PLAN ADD ALTERNATE #2
SP2.0	SPRINKLER DETAILS

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MECHANICAL COVER SHEET

M0.0

keyplan

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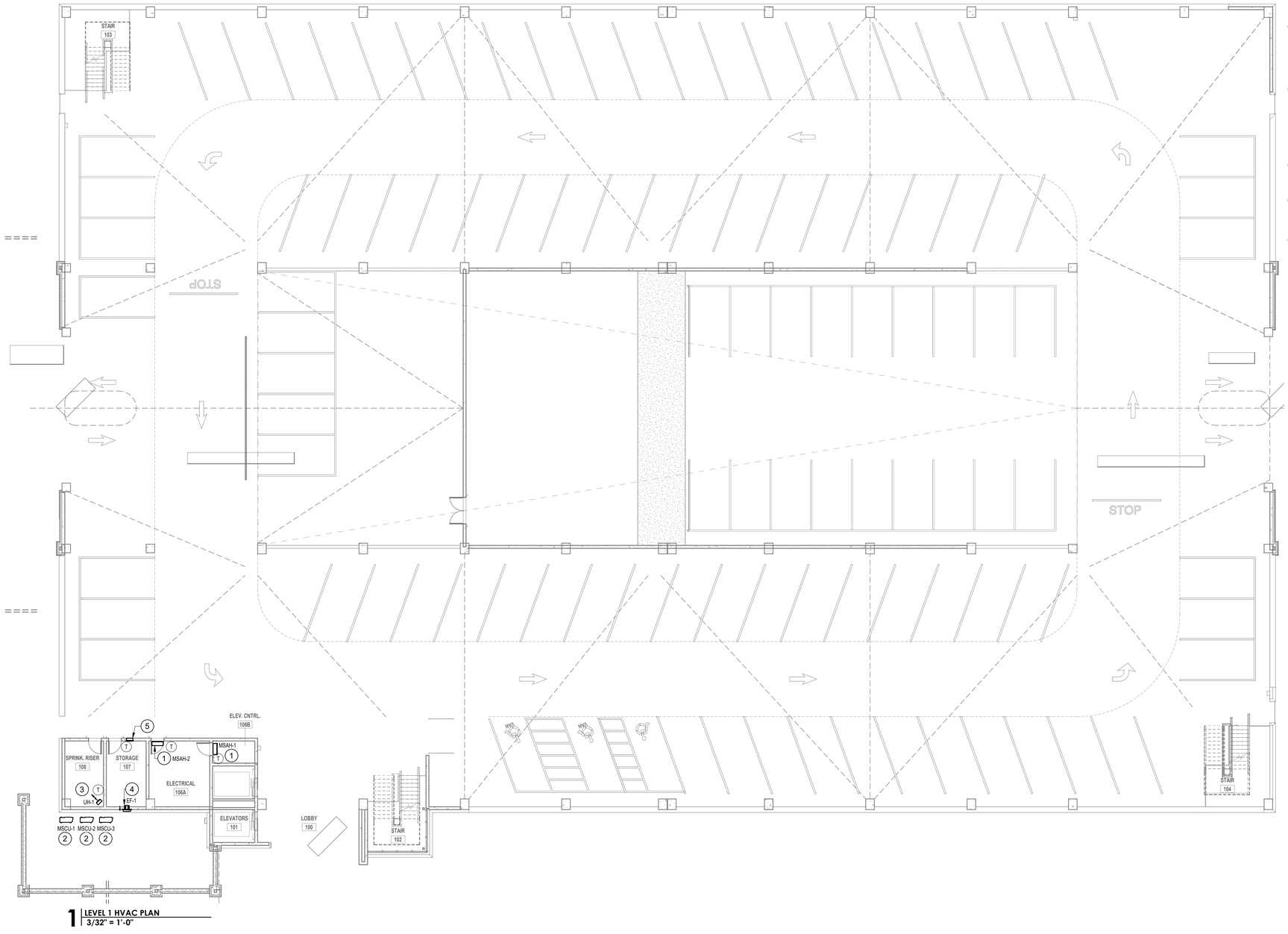
North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana



1 **LEVEL 1 HVAC PLAN**
3/32" = 1'-0"

HVAC PLAN KEY NOTES:

1. MINI SPLIT AIR HANDLING UNIT W/ INTEGRAL CONDENSATE PUMP. SEE SCHEDULE. MSAH SHALL BE MOUNTED HIGH ABOVE THE DOOR. 1" INSULATED COPPER CONDENSATE DRAIN LINE FROM CONDENSATE PUMP (PROVIDED WITH UNIT) TO ADJACENT HUB DRAIN. PROVIDE INDIRECT CONNECTION WITH TRAP. RE: PLUMBING FOR DRAIN LOCATION.
2. MINI-SPLIT CONDENSING UNIT ON HOUSEKEEPING PAD. ROUTE REFRIGERANT PIPING CONCEALED IN WALLS/CEILING ABOVE TO RESPECTIVE WALL MOUNTED UNIT. CONTRACTOR SHALL MAINTAIN ALL NECESSARY MANUFACTURER'S REQUIREMENTS AROUND UNITS FOR SERVICING. CONTRACTOR MUST COORDINATE WITH STRUCTURAL FOR EXACT ROUTING AND ADJUST AS NECESSARY TO ACCOMMODATE STRUCTURE.
3. ELECTRIC UNIT HEATER, 5 KW, MODINE OR APPROVED MANUFACTURER. SET THERMOSTAT TO 40 DEGREES. MOUNT HEATER MINIMUM OF 7'6" A.F.F.
4. SIDEWALL PROPELLER TYPE EXHAUST FAN WITH GRAVITY LOUVER. FAN SHALL BE CONTROLLED BY THERMOSTAT, SAME HEIGHT AS LIGHT / OCCUPANCY SENSOR. RE: SCHEDULE.
5. 18X18" GRAVITY WALL LOUVER, DOUBLE FLANGE, ALUMINUM, INSECT SCREEN AND SECURITY BARS. INTERLOCK LOUVER WITH EXHAUST FAN, EF-2. GREENHECK ESD OR APPROVED MODEL.

keyplan

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LEVEL 1 HVAC PLAN

M1.0

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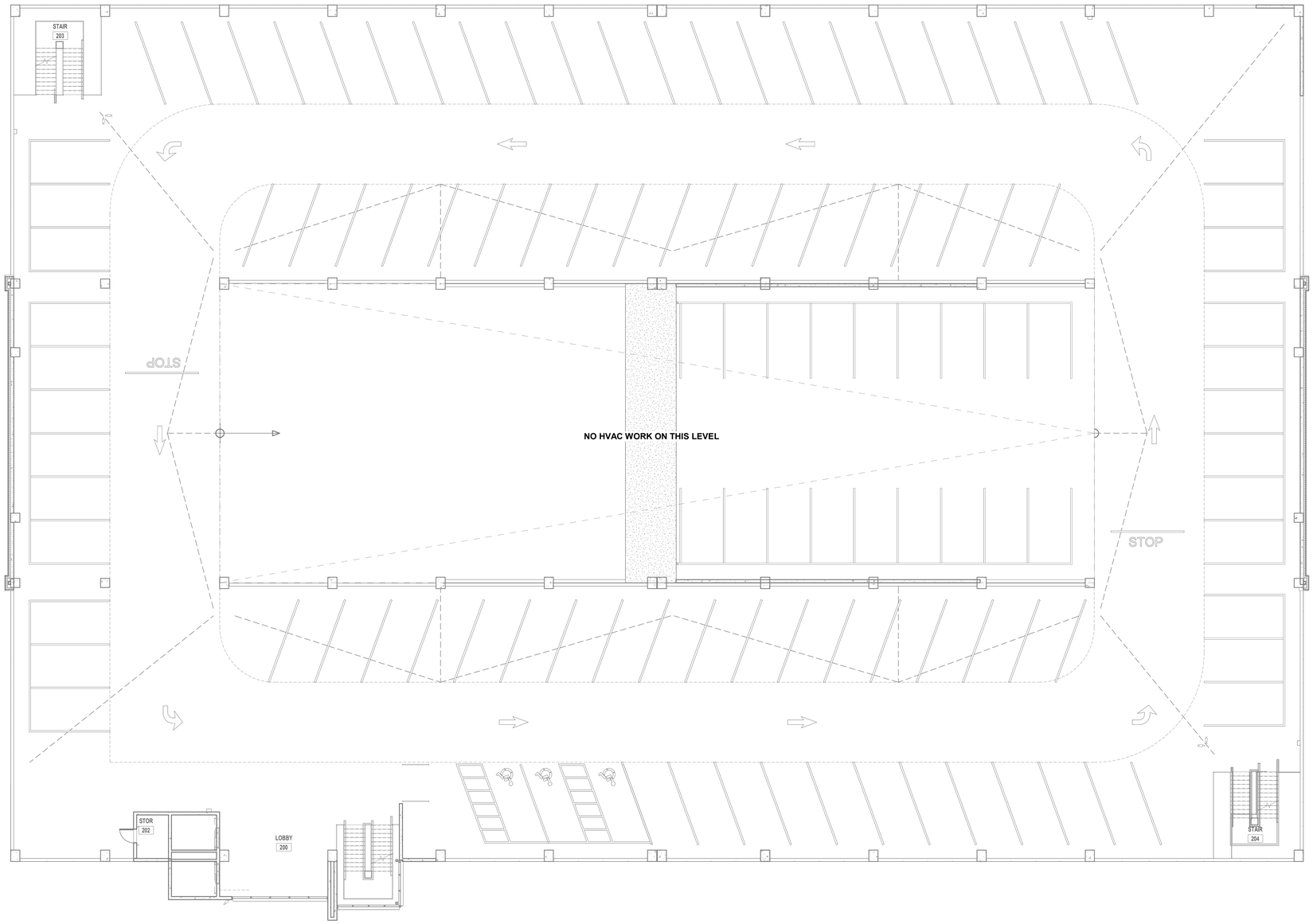

1 LEVEL 2 HVAC PLAN
3/32" = 1'-0"

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LEVEL 2 HVAC PLAN

M1.2

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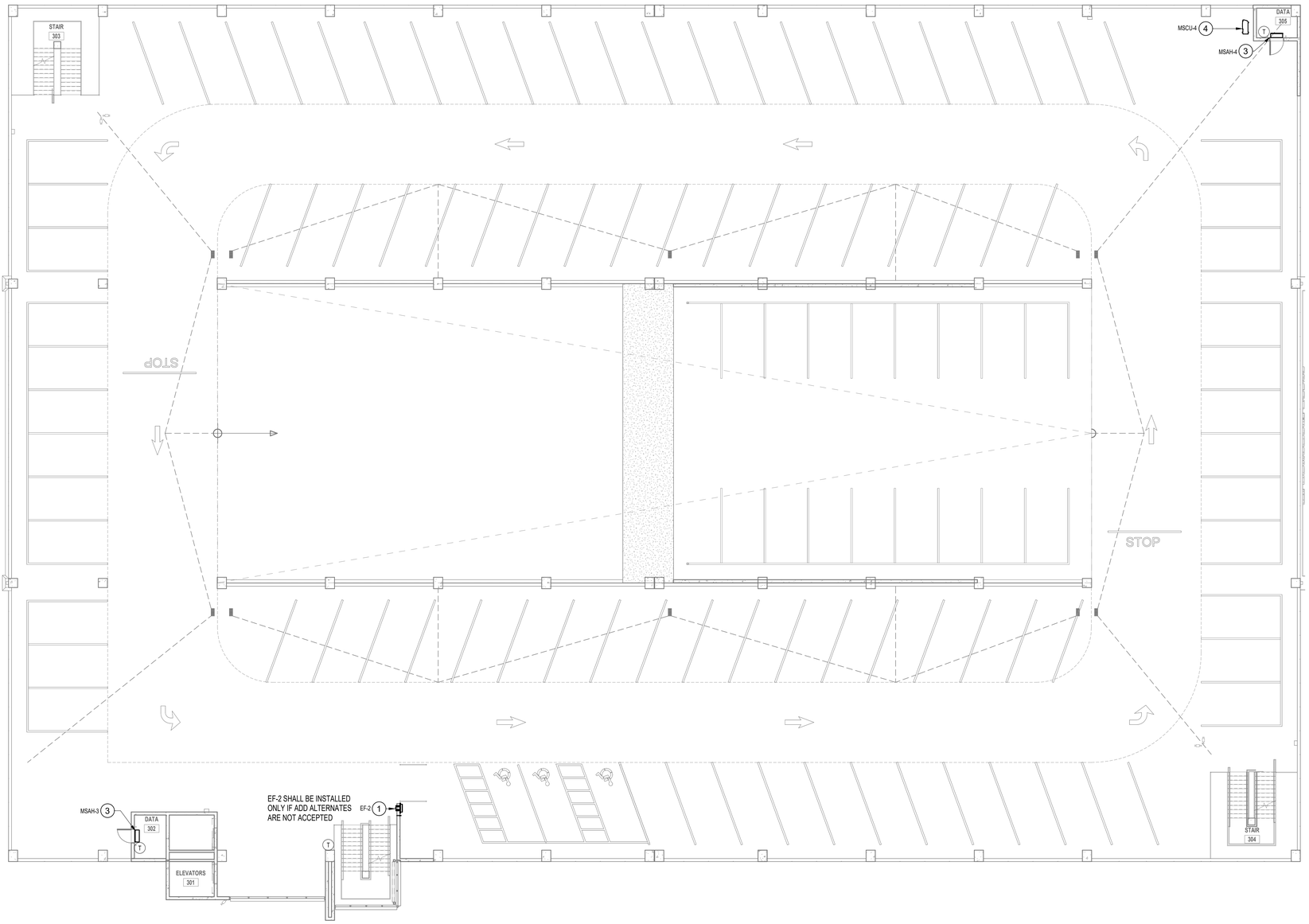

1 **LEVEL 3 HVAC PLAN**
3/32" = 1'-0"

HVAC PLAN KEY NOTES:

1. UNDER BASE BID, SIDEWALL PROPELLER TYPE EXHAUST FAN WITH GRAVITY LOUVER. FAN SHALL BE CONTROLLED BY THERMOSTAT IN LOCKABLE BOX, SAME HEIGHT AS LIGHT / OCCUPANCY SENSOR. RE: SCHEDULE.
   UNDER ADD ALTERNATES #1 OR #2, THIS FAN WILL NOT BE LOCATED ON THE THIRD FLOOR ROOF.
2. UNDER BASE BID, SIDEWALL PROPELLER TYPE EXHAUST FAN WITH GRAVITY LOUVER. FAN SHALL BE CONTROLLED BY THERMOSTAT IN LOCKABLE BOX, SAME HEIGHT AS LIGHT / OCCUPANCY SENSOR. RE: SCHEDULE.
   UNDER ADD ALTERNATES #1 OR #2, THIS FAN WILL NOT BE LOCATED ON THE THIRD FLOOR ROOF.
3. MINI SPLIT AIR HANDLING UNIT W/ INTEGRAL CONDENSATE PUMP. SEE SCHEDULE. MSAH SHALL BE MOUNTED HIGH ABOVE THE DOOR. 1" INSULATED COPPER CONDENSATE DRAIN LINE FROM CONDENSATE PUMP (PROVIDED WITH UNIT) TO ADJACENT HUB DRAIN. PROVIDE INDIRECT CONNECTION WITH TRAP. RE: PLUMBING FOR DRAIN LOCATION.
4. MINI-SPLIT CONDENSING UNIT ON HOUSEKEEPING PAD. ROUTE REFRIGERANT PIPING CONCEALED IN WALLS/CEILING ABOVE TO RESPECTIVE WALL MOUNTED UNIT. CONTRACTOR SHALL MAINTAIN ALL NECESSARY MANUFACTURER'S REQUIREMENTS AROUND UNITS FOR SERVICING. CONTRACTOR MUST COORDINATE WITH STRUCTURAL FOR EXACT ROUTING AND ADJUST AS NECESSARY TO ACCOMMODATE STRUCTURE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

keyplan

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WHLC ARCHITECTURE

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North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

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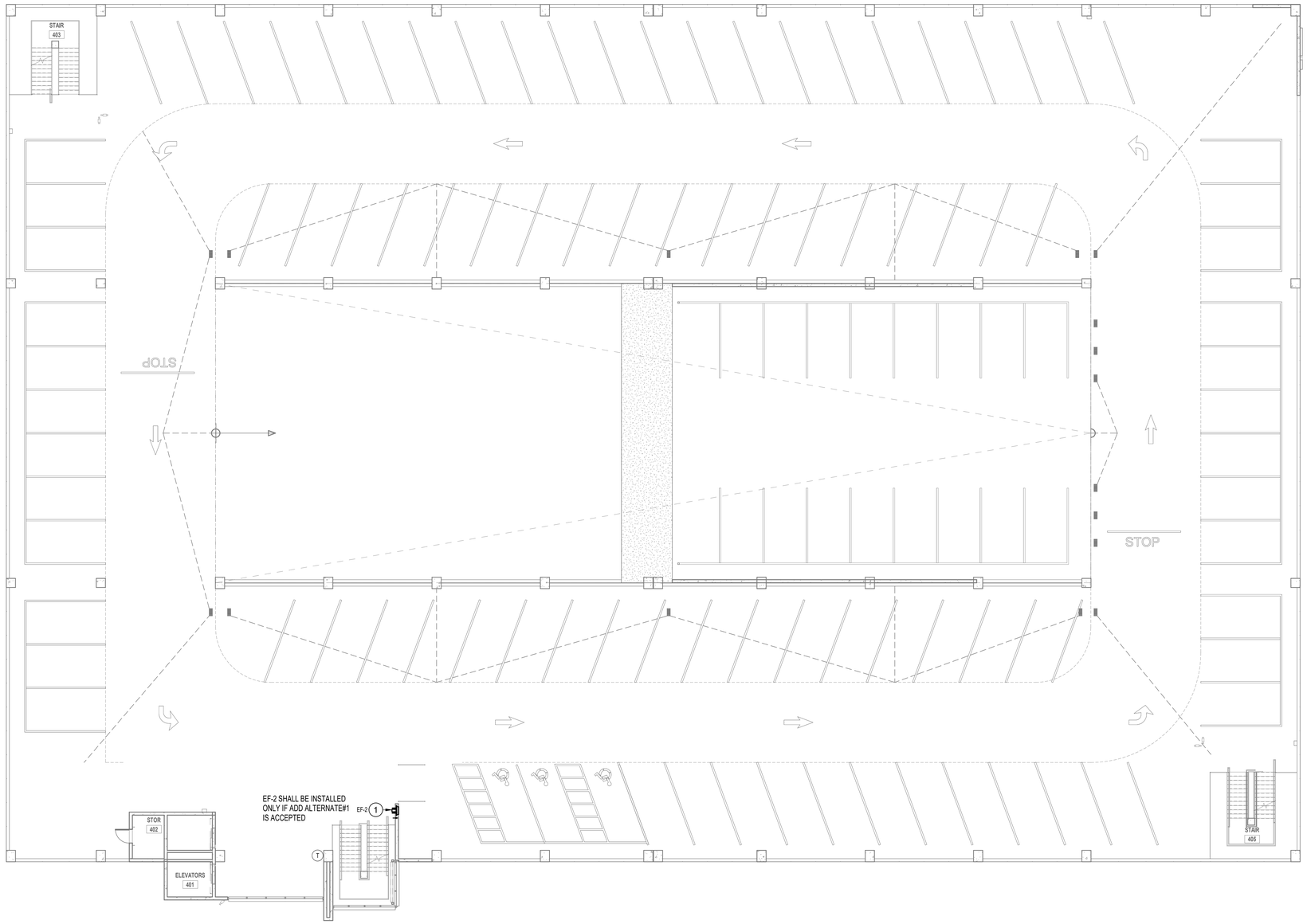
LEVEL 3 HVAC PLAN

M1.3



1 LEVEL 4 HVAC PLAN ADD ALTERNATE #1
3/32" = 1'-0"

HVAC PLAN KEY NOTES:

1. UNDER ADD ALTERNATE #2, SIDEWALL PROPELLER TYPE EXHAUST FAN WITH GRAVITY LOUVER. FAN SHALL BE CONTROLLED BY THERMOSTAT IN LOCKABLE BOX, SAME HEIGHT AS LIGHT / OCCUPANCY SENSOR. RE: SCHEDULE.

keyplan

WHLC ARCHITECTURE

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LEVEL 4 HVAC PLAN
ADD ALTERNATE #1

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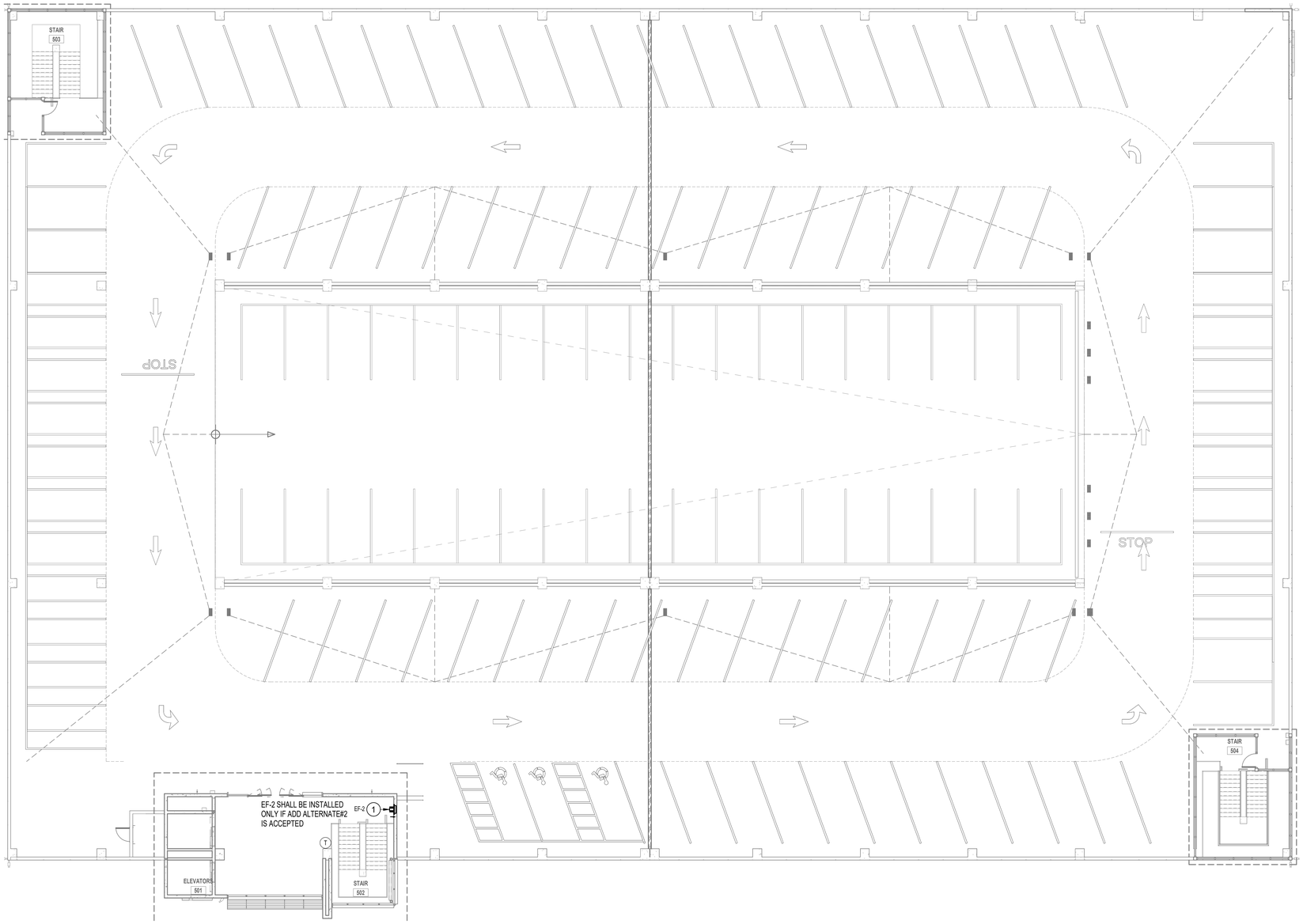
M1.4



HVAC PLAN KEY NOTES:

1. UNDER ADD ALTERNATE #2. SIDEWALL PROPELLER TYPE EXHAUST FAN WITH GRAVITY LOUVER. FAN SHALL BE CONTROLLED BY THERMOSTAT IN LOCKABLE BOX, SAME HEIGHT AS LIGHT / OCCUPANCY SENSOR. RE: SCHEDULE.

1 LEVEL 5 HVAC PLAN ADD ALTERNATE #2
3/32" = 1'-0"

keyplan

WHLC ARCHITECTURE

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North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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SEPTEMBER 9, 2026
26-020

LEVEL 5 HVAC PLAN
ADD ALTERNATE #2

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TLA PROJECT # 26-115 (KGV / KMB)
Frank Saville Thompson - License No. 28854
Landon David Burns - License No. 46484

M1.5

Mini Split Air HandlingUnit Equipment Schedule

MARK	LG Model Name	Type	Quantity	Nominal Capacity(BTU/h)		Corrected Capacity(BTU/h)			Room Design Temp.(Return Air Temp.)(°F)			Piping Connections(inch)		Power Supply	Weight (lbs)	Dimension (inch)	Sound Pressure Level (dB(A))
				Cooling	Heating	Cooling	Sensible Cooling	Heating	Cooling DBT	Cooling WBT	Heating DBT	Liquid	Gas			(W x H x D)	
MSAH-1	KNSAE121A	Wall Mounted	1	11016.46	8577.68	11016.46	8206.64	8577.68	80.00	67.0	70.0	1/4	3/8	1/208~230/60	19.2	32-15/16x12-1/8x7-7/16	42/36/28
MSAH-2	KNSAE121A	Wall Mounted	1	11016.46	8577.68	11016.46	8206.64	8577.68	80.00	67.0	70.0	1/4	3/8	1/208~230/60	19.2	32-15/16x12-1/8x7-7/16	42/36/28
MSAH-3	KNSAE121A	Wall Mounted	1	11016.46	8577.68	11016.46	8206.64	8577.68	80.00	67.0	70.0	1/4	3/8	1/208~230/60	19.2	32-15/16x12-1/8x7-7/16	42/36/28
MSAH-4	KNSAE121A	Wall Mounted	1	11016.46	8577.68	11016.46	8206.64	8577.68	80.00	67.0	70.0	1/4	3/8	1/208~230/60	19.2	32-15/16x12-1/8x7-7/16	42/36/28

1. EXTERNAL STATIC PRESSURE LOSSES DO NOT INCLUDE LOSS FOR DIRTY FILTER.
2. ELECTRICAL SHALL PROVIDE DISCONNECT FOR UNIT.
3. REFRIGERANT LINES MUST BE SIZED STRICTLY TO MANUFACTURER'S RECOMMENDATIONS.
4. UNIT SHALL COME EQUIPPED WITH CONDENSATE DRAIN PUMP.
5. ROUTE CONDENSATE DRAIN TO NEAREST PLUMBING VENT OR HUB DRAIN. MAINTAIN 1" AIR GAP AT TERMINATION POINT.

Multi, Single Condensing Unit Equipment Schedule

MARK	LG Model Name	Type	Quantity	Total Capacity(BTU/h)		Corrected Capacity(BTU/h)		Rated Power Input (kW)		Corrected Power Input(kW)		Outdoor Temperature(°F)			Refrig	Power Supply	Sound Pressure Level (dB(A))	Weight (lbs)	Dimension (inch)
				Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling DBT	Cooling WBT	Heating DBT					(W x H x D)
MSCU-1	KUSAE121A	Single Zone High Wall	1	11000	12000	11016.46	8577.68	0.92	1.02	0.00	0.00	95.0	80.0	25.0	R32	1/208~230/60	50/50	55.3	28-7/32x19-1/2x9-1/16
MSCU-2	KUSAE121A	Single Zone High Wall	1	11000	12000	11016.46	8577.68	0.92	1.02	0.00	0.00	95.0	80.0	25.0	R32	1/208~230/60	50/50	55.3	28-7/32x19-1/2x9-1/16
MSCU-3	KUSAE121A	Single Zone High Wall	1	11000	12000	11016.46	8577.68	0.92	1.02	0.00	0.00	95.0	80.0	25.0	R32	1/208~230/60	50/50	55.3	28-7/32x19-1/2x9-1/16
MSCU-4	KUSAE121A	Single Zone High Wall	1	11000	12000	11016.46	8577.68	0.92	1.02	0.00	0.00	95.0	80.0	25.0	R32	1/208~230/60	50/50	55.3	28-7/32x19-1/2x9-1/16

1. LOW AMBIENT TO 30°F.
2. UNIT SHALL HAVE INVERTER COMPRESSOR.
3. UNIT SHALL HAVE SINGLE POINT ELECTRICAL CONNECTION.
4. REFRIGERANT LINES MUST BE SIZED STRICTLY TO MANUFACTURER'S RECOMMENDATIONS.
5. UNIT SHALL BE A MINIMUM OF 18 SEER.
6. UNIT SHALL HAVE FAN GUARD.

ELECTRIC UNIT HEATER SCHEDULE

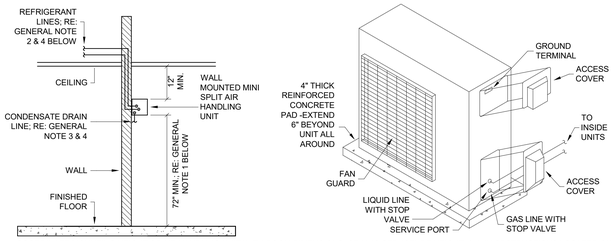
NO.	BTUH OUTPUT	AMPS	CFM	KW	MOTOR HP	ELECTRIC SERVICE	CONTROL VOLT	WEIGHT	REMARKS
UH-1	17	6	350	5	1/100	460V/3□/60Hz	24	27 LBS	QMARK MUH0541 OR APPROVED EQUAL

FURNISH AND INSTALL A THERMOSTAT, LOW VOLTAGE CONTROL WIRING AND CONDUIT, ETC.
LOCATE THE THERMOSTAT AS DIRECTED BY ENGINEER. UNIT HEATER SHALL HAVE HORIZONTAL DISCHARGE AND SUPPORT MOUNTING BRACKETS. THE THERMOSTAT SHALL BE SET FOR 40° F. BTUH, CFM, AIR TEMP RISE, KW AND HP LISTED ABOVE ARE MIN VALUES.

SIDEWALL EXHAUST FAN SCHEDULE

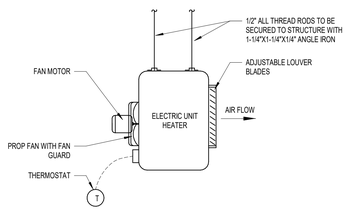
PLAN MARK	SERVICE	TOTAL CFM	S.P. LOSS IN. W.C.	HORSEPOWER	FAN RPM	DRIVE TYPE	MAXIMUM SONES	ELECTRIC SERVICE	REMARKS
EF-1	BASE BID - FIRST FLOOR STORAGE ROOM	400	0.25	1/20	1550	DIRECT	5	115/1/60	GREENHECK SE1-10-428-PX-QD OR COOK APPROVED EQUAL
EF-2	BASE BID - ON THIRD FLOOR LEVEL ADD ALT - ON FOURTH FLOOR LEVEL ADD ALT - ON FIFTH FLOOR LEVEL	1500	0.58	3/4	1486	DIRECT	12.2	208/1/60	GREENHECK SE-16-428-VG OR COOK APPROVED EQUAL

1. PROVIDE BACKDRAFT DAMPER ON DISCHARGE OF FAN.
2. PROVIDE SOLID STATE SPEED CONTROLLER, CONTROLLER MUST BE ACCESSIBLE FROM FACE OF FAN.

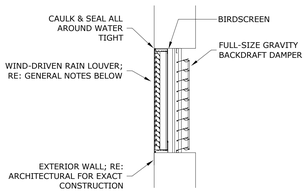


1. COORDINATE MOUNTING HEIGHT OF AIR HANDLING UNIT WITH ROOM DIMENSIONS, CEILING STRUCTURE HEIGHT, & ANY OBSTRUCTIONS LOCATED ON WALL. AIR HANDLING UNIT TO BE FURNISHED & INSTALLED WITH ALL NECESSARY HARDWARE FOR PROPER MOUNTING FROM FACTORY (I.E. BRACKETS, FASTENERS, WASHERS, ETC.) RE: MANUFACTURERS RECOMMENDATIONS & REQUIREMENTS FOR MOUNTING OF UNIT.
2. ALL REFRIGERANT LINES SHALL BE SIZED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. REFRIGERANT LINES SHALL BE ROUTED THRU WALL/ROOF & EXPOSED THRU ATTIC OR CEILING SPACE TO RESPECTIVE CONDENSING UNIT LOCATED AT EXTERIOR. SEAL ALL EXTERIOR WALL/ROOF PENETRATIONS WATER TIGHT.
3. CONDENSATE DRAIN LINE SHALL BE INSTALLED WITH "P-TRAP" & INSULATED. CONDENSATE DRAIN LINE SHALL BE ROUTED WITH DISCHARGE TO NEAREST HUB DRAIN OR PLUMBING VENT, PROVIDE P-TRAP & MUST MAINTAIN MINIMUM 2" AIR GAP BETWEEN DRAIN TERMINATION & HUB DRAIN RIM OR PLUMBING VENT P-TRAP.
4. ALL REFRIGERANT & CONDENSATE DRAIN LINES SHALL BE ROUTED IN SUCH A MANNER AS TO NOT BLOCK OR OBSTRUCT ANY ACCESS (FILTER, COOLING COIL, FAN, ETC.) TO AIR HANDLING UNIT.

1 DETAIL - WALL MOUNTED MINI SPLIT AIR HANDLING UNIT
NTS

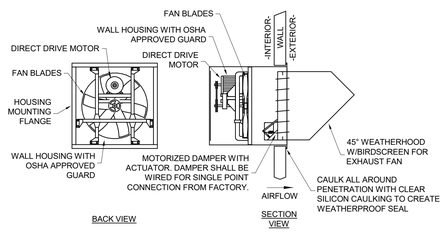


2 DETAIL - UNIT HEATER
NTS



GENERAL NOTES:
1. LOUVER MUST BE WIND-DRIVEN RAIN LOUVER, 5.5" DEEP FRAME, ALUMINUM CONSTRUCTION, AMCA 550 QUALIFIED. LOUVER SHALL BE FURNISHED & INSTALLED WITH A FRAMED, REMOVABLE BIRD SCREEN MOUNTED ON REAR OF LOUVER. REFER TO PLAN FOR LOUVER SIZE(S). COORDINATE EXACT MOUNTING HEIGHT OF LOUVER WITH ARCHITECT, UNLESS OTHERWISE NOTED ON PLANS.
2. REFER TO MANUFACTURER'S INSTALLATION GUIDE & RECOMMENDATIONS FOR EXACT MOUNTING REQUIREMENTS OF LOUVER IN EXTERIOR WALL.
3. ALL EXHAUST OUTLETS & AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10'-0" APART, UNLESS OTHERWISE NOTED ON PLANS.

3 DETAIL - EXTERIOR LOUVER
NTS



4 DETAIL - SIDEWALL PROPELLER FAN
NTS

WHLC ARCHITECTURE

Frank Saville Thompson
License No. 28854
Professional Engineer
In the State of Louisiana
Mechanical Engineering

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

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HVAC SCHEDULES AND DETAILS

M2.0

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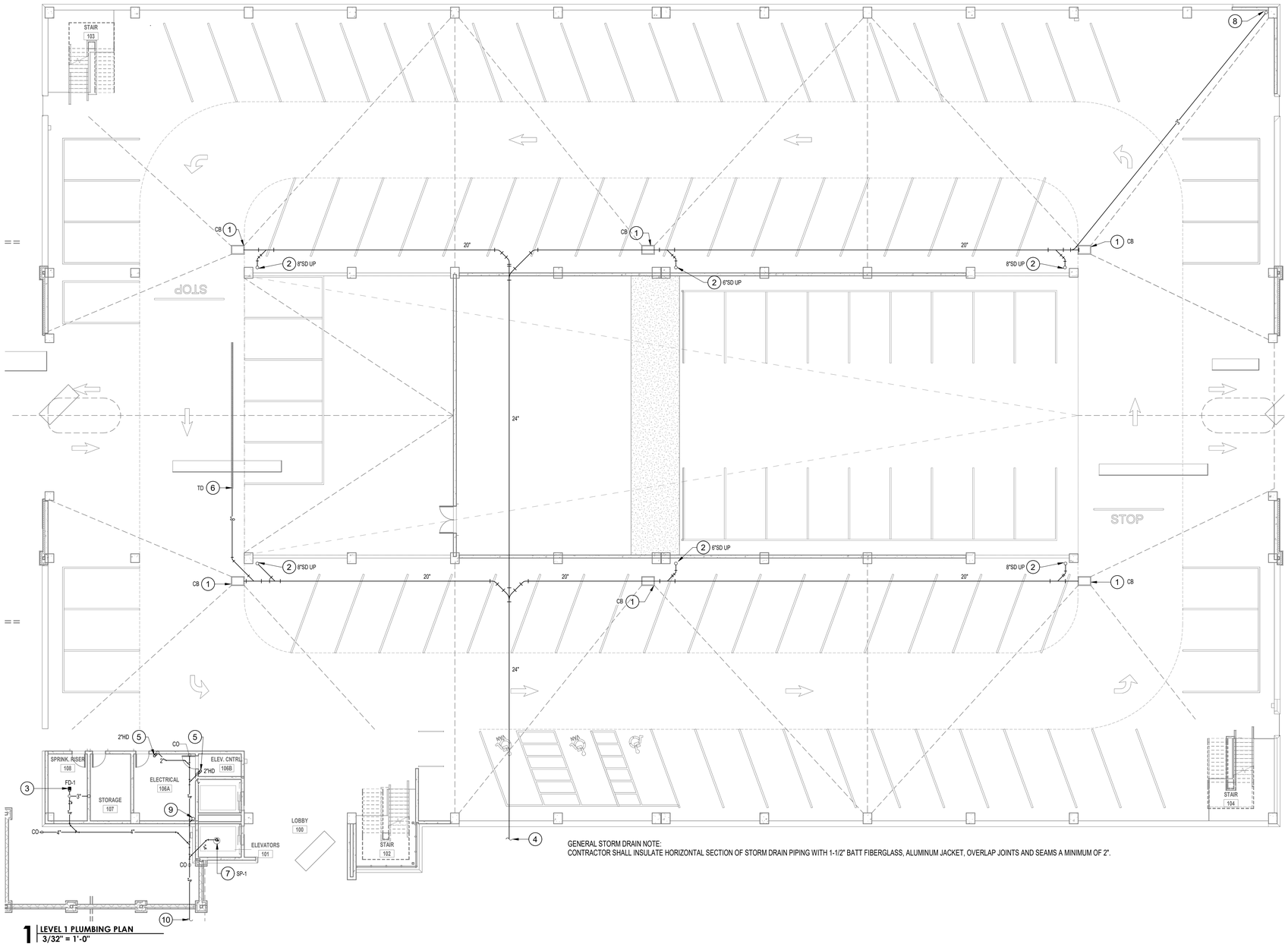

1 LEVEL 1 PLUMBING PLAN
3/32" = 1'-0"

PLUMBING PLAN KEY NOTES:

1. ROUTE 6" SD (STORM DRAIN) AND CONNECT TO CATCH BASIN (CB), TYPICAL. RE: CIVIL DRAWINGS FOR CATCH BASIN SPECIFICATIONS.
2. ROUTE SD, SIZED AS SHOWN, UP ALONG COLUMN TO SERVE TRENCH DRAINS ON FLOORS ABOVE. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
3. 4"W, 3"V TO NEW 4" FLOOR DRAIN (FD-1). PROVIDE BACKWATER VALVE PRIOR TO VENT PIPING.
4. RE: CIVIL FOR CONTINUATION OF 24" STORM SEWER TO CATCH BASIN.
5. 2"HD IN CEILING SPACE FOR MINI SPLIT AHU CONDENSATE DRAIN. PROVIDE INDIRECT CONNECTION.
6. ROUTE 8" SD (STORM DRAIN) AND CONNECT TO TRENCH DRAIN (TD).
7. ELEVATOR SUMP PUMP, RE: SCHEDULE AND DETAIL, SHEET P2.0. PROVIDE 4" DRAIN LINE.
8. ROUTE 3" SD UP SECURED ALONG COLUMN AND TO FLOOR ABOVE. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
9. ROUTE 3"W UP SECURED TO WALL AND UP TO FLOOR ABOVE. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
10. RE: CIVIL FOR CONTINUATION OF 4"W TO CATCH BASIN.

GENERAL STORM DRAIN NOTE:
CONTRACTOR SHALL INSULATE HORIZONTAL SECTION OF STORM DRAIN PIPING WITH 1-1/2" BATT FIBERGLASS, ALUMINUM JACKET, OVERLAP JOINTS AND SEAMS A MINIMUM OF 2".

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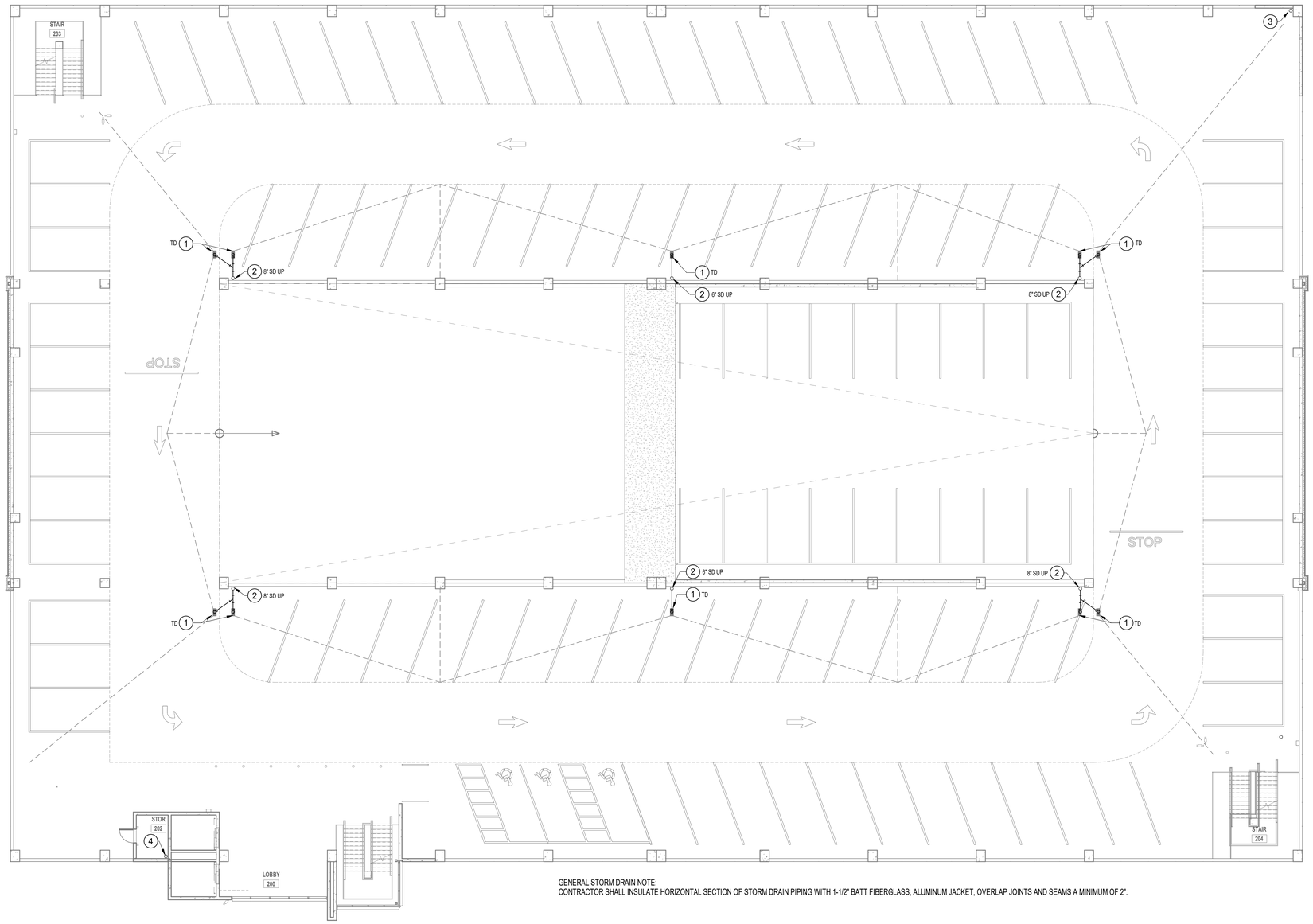
LEVEL 1 PLUMBING PLAN

P1.1



PLUMBING PLAN KEY NOTES:

1. ROUTE 6" SD (STORM DRAIN) AND CONNECT TO TRAFFIC GRADE HEAVY DUTY TRENCH DRAIN (TD), TYPICAL. ROUTE HORIZONTAL PIPING AS HIGH AS POSSIBLE TO STRUCTURE.
2. ROUTE SD, SIZED AS SHOWN, UP ALONG COLUMN TO SERVE TRENCH DRAINS ON FLOORS ABOVE, TYPICAL. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
3. ROUTE 3" SD UP SECURED ALONG COLUMN AND TO FLOOR ABOVE. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
4. ROUTE 3"W UP ALONG WALL FROM FLOOR BELOW AND UP TO FLOOR ABOVE.

GENERAL STORM DRAIN NOTE:
CONTRACTOR SHALL INSULATE HORIZONTAL SECTION OF STORM DRAIN PIPING WITH 1-1/2" BATT FIBERGLASS, ALUMINUM JACKET, OVERLAP JOINTS AND SEAMS A MINIMUM OF 2".

1 LEVEL 2 PLUMBING PLAN
3/32" = 1'-0"

keyplan

WHLC ARCHITECTURE

STATE OF LOUISIANA
FRANK SAVILLE THOMPSON
28854
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

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LEVEL 2 PLUMBING PLAN

P1.2

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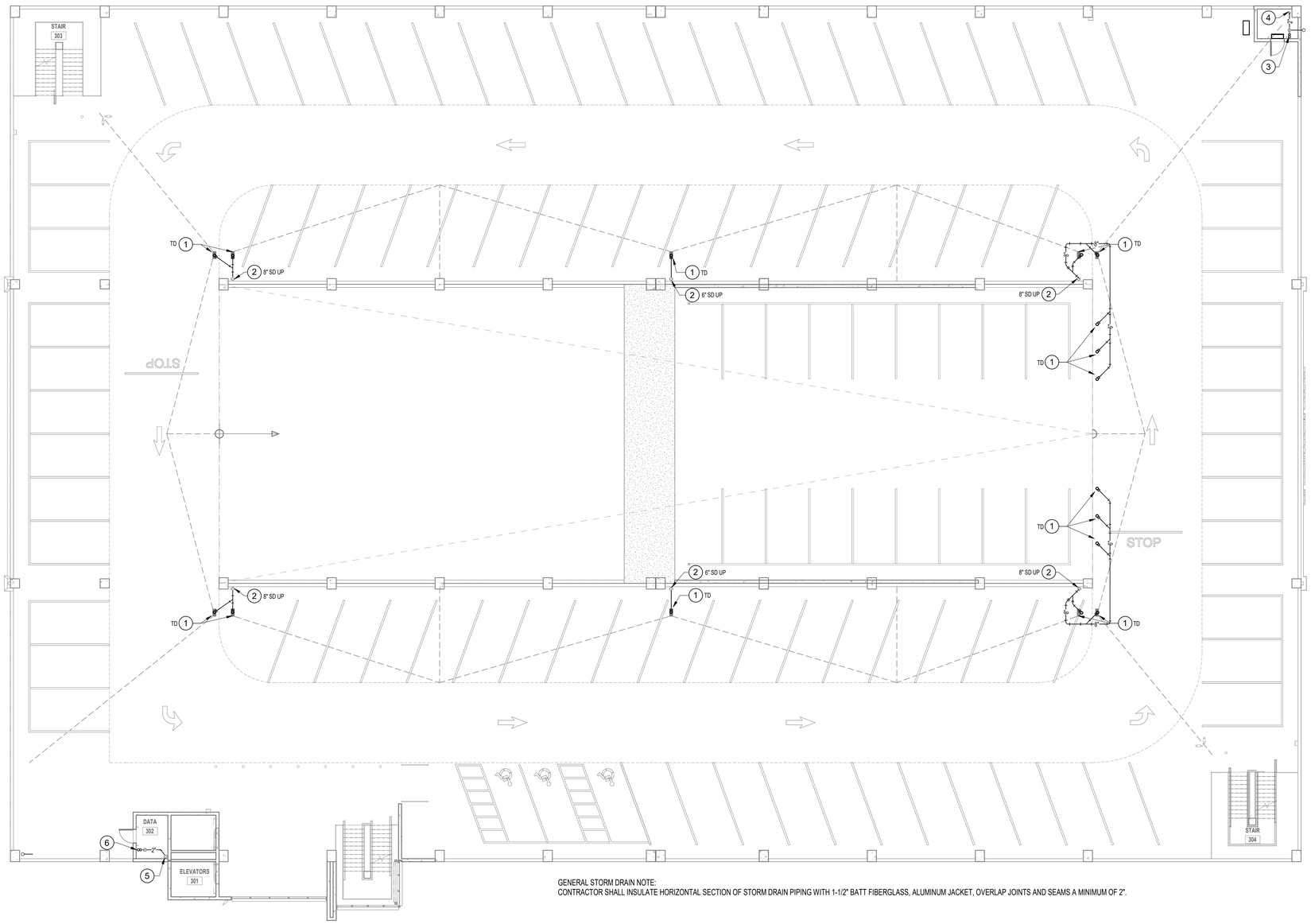

PLUMBING PLAN KEY NOTES:

1. ROUTE 6" SD (STORM DRAIN) AND CONNECT TO TRAFFIC GRADE HEAVY DUTY TRENCH DRAIN (TD). TYPICAL. ROUTE HORIZONTAL PIPING AS HIGH AS POSSIBLE TO STRUCTURE.
2. ROUTE 6" SD UP ALONG COLUMN TO SERVE TRENCH DRAINS ON FLOORS ABOVE IF ADD ALTERNATES ARE ACCEPTED, TYPICAL. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
3. 2"SD, 2" V FOR 2" HD MOUNTED HIGH FOR CONDENSATE OF MINI-SPLIT AIR HANDLING UNIT. TURN VENT UP OUTSIDE EXTERIOR WALL. HORIZONTAL PIPING SHALL BE INSULATED.
4. ROUTE 3" SD UP ALONG COLUMN FROM FLOOR BELOW.
5. ROUTE 3" SD UP SECURED ALONG COLUMN AND TO FLOOR ABOVE. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.
6. 2"W, 2"V FOR 2" HD MOUNTED HIGH FOR CONDENSATE OF MINI-SPLIT AIR HANDLING UNIT. TURN VENT UP OUTSIDE EXTERIOR WALL. HORIZONTAL PIPING SHALL BE INSULATED.

GENERAL STORM DRAIN NOTE:
CONTRACTOR SHALL INSULATE HORIZONTAL SECTION OF STORM DRAIN PIPING WITH 1-1/2" BATT FIBERGLASS, ALUMINUM JACKET, OVERLAP JOINTS AND SEAMS A MINIMUM OF 2".

1 LEVEL 3 PLUMBING PLAN
3/32" = 1'-0"

keyplan

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IN MECHANICAL ENGINEERING

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LEVEL 3 PLUMBING PLAN

P1.3

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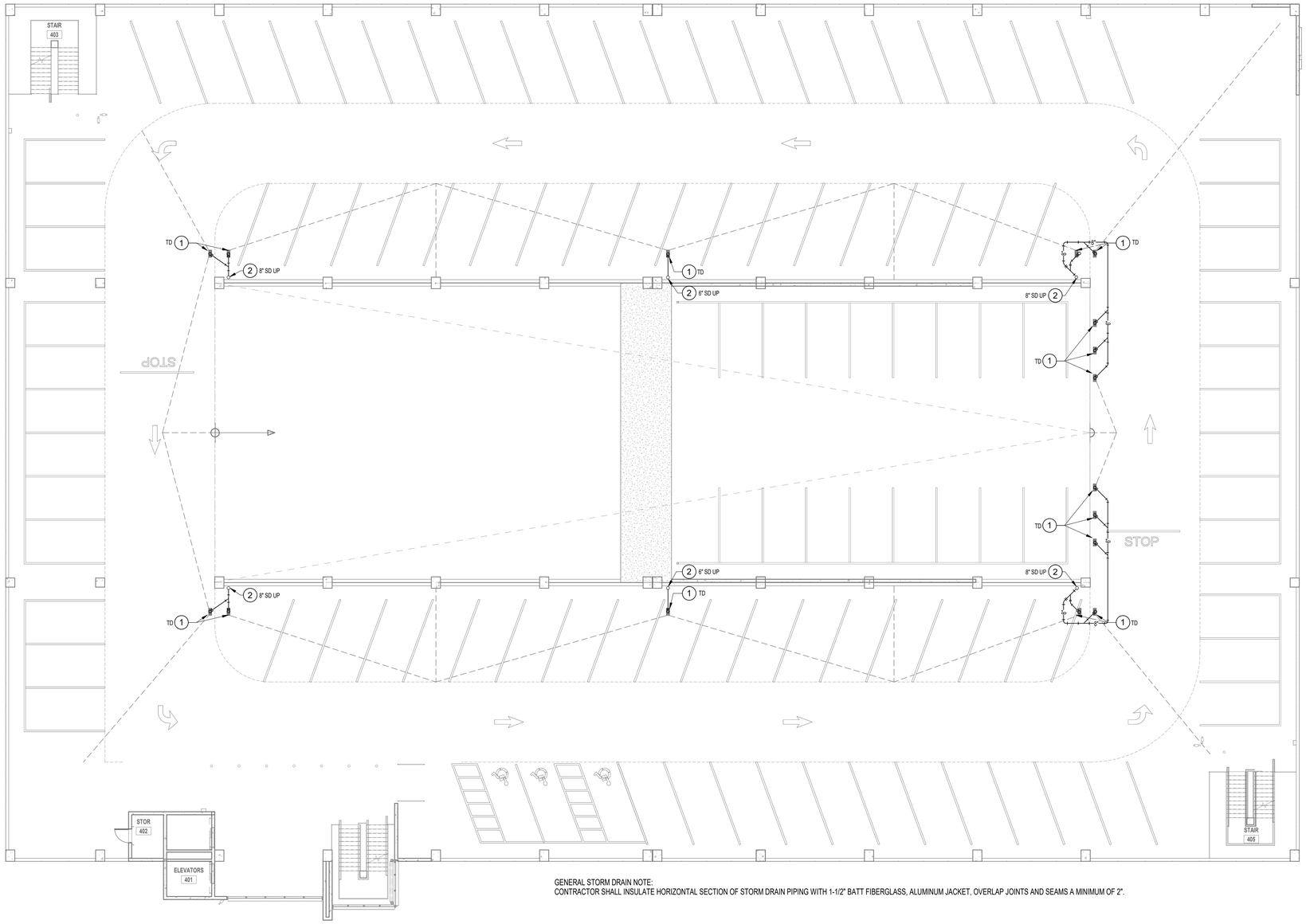

PLUMBING PLAN KEY NOTES:

1. ROUTE 6" SD (STORM DRAIN) AND CONNECT TO TRAFFIC GRADE HEAVY DUTY TRENCH DRAIN (TD), TYPICAL. ROUTE HORIZONTAL PIPING AS HIGH AS POSSIBLE TO STRUCTURE.
2. ROUTE 6" SD UP ALONG COLUMN TO SERVE TRENCH DRAINS ON FLOORS ABOVE IF ADD ALTERNATE #2 IS ACCEPTED, TYPICAL. PROVIDE CLEAN OUT TEE AT BASE OF RISER AT EACH LEVEL.

GENERAL STORM DRAIN NOTE:
CONTRACTOR SHALL INSULATE HORIZONTAL SECTION OF STORM DRAIN PIPING WITH 1-1/2" BATT FIBERGLASS, ALUMINUM JACKET, OVERLAP JOINTS AND SEAMS A MINIMUM OF 2".

1 LEVEL 4 PLUMBING PLAN ADD ALTERNATE #1
3/32" = 1'-0"

keyplan

WHLC ARCHITECTURE

FRANK SAVILLE THOMPSON
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LICENSED PROFESSIONAL ENGINEER
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LEVEL 4 PLUMBING PLAN ADD ALTERNATE #1

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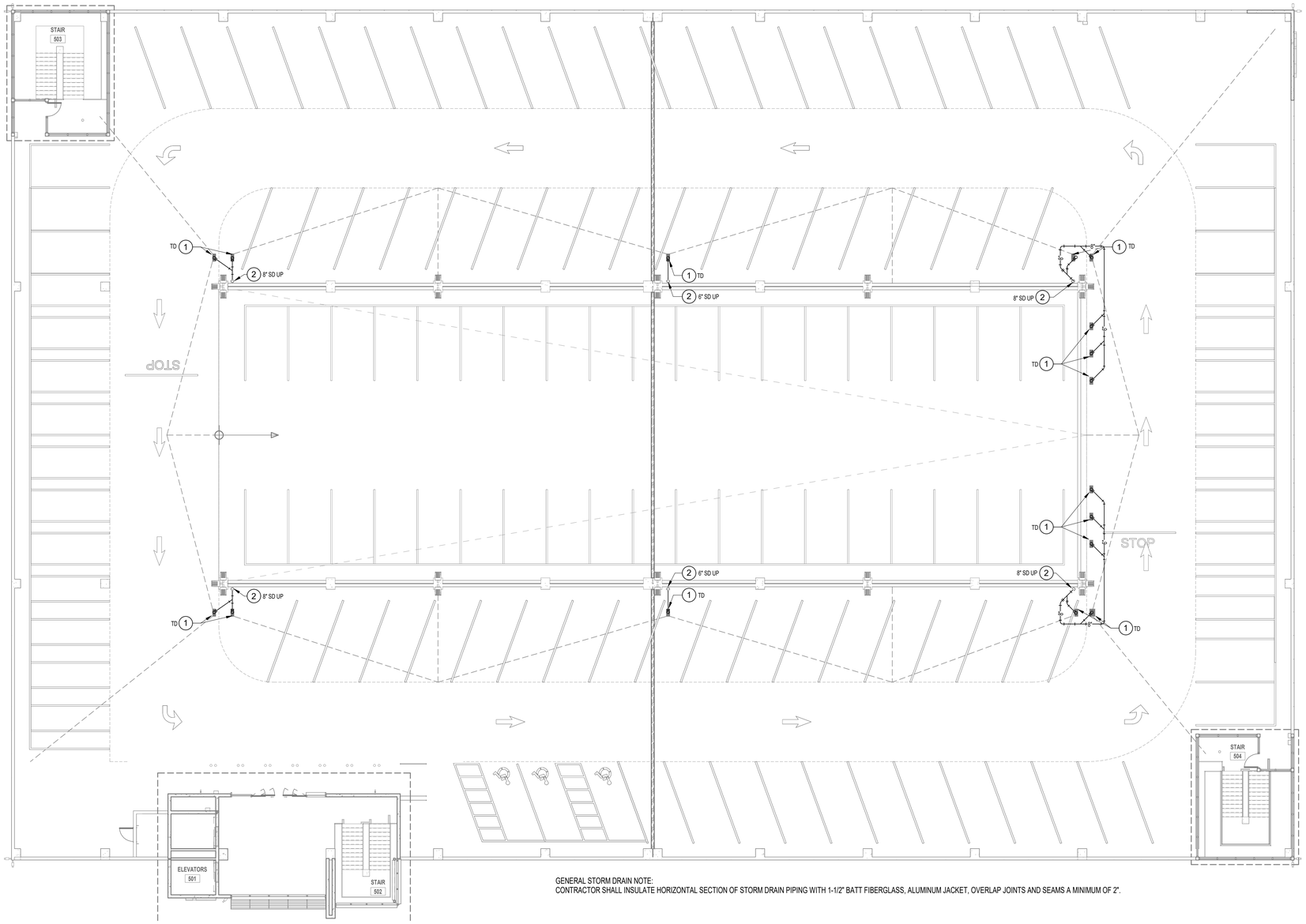

PLUMBING PLAN KEY NOTES:

1. ROUTE 6" SD (STORM DRAIN) AND CONNECT TO TRAFFIC GRADE HEAVY DUTY TRENCH DRAIN (TD), TYPICAL. ROUTE HORIZONTAL PIPING AS HIGH AS POSSIBLE TO STRUCTURE.
2. ROUTE 6" SD DOWN ALONG COLUMN TO SERVE TRENCH DRAINS ON FLOORS BELOW, TYPICAL. PROVIDE CLEAN OUT TEE AT BASE OF RISER ON EACH LEVEL.

GENERAL STORM DRAIN NOTE:
CONTRACTOR SHALL INSULATE HORIZONTAL SECTION OF STORM DRAIN PIPING WITH 1-1/2" BATT FIBERGLASS, ALUMINUM JACKET, OVERLAP JOINTS AND SEAMS A MINIMUM OF 2".

1 LEVEL 5 PLUMBING PLAN ADD ALTERNATE #2
3/32" = 1'-0"

keyplan

WHLC ARCHITECTURE

FRANK SAVILLE THOMPSON 28854 PROFESSIONAL ENGINEER IN LOUISIANA

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LEVEL 5 PLUMBING PLAN ADD ALTERNATE #2

P1.5

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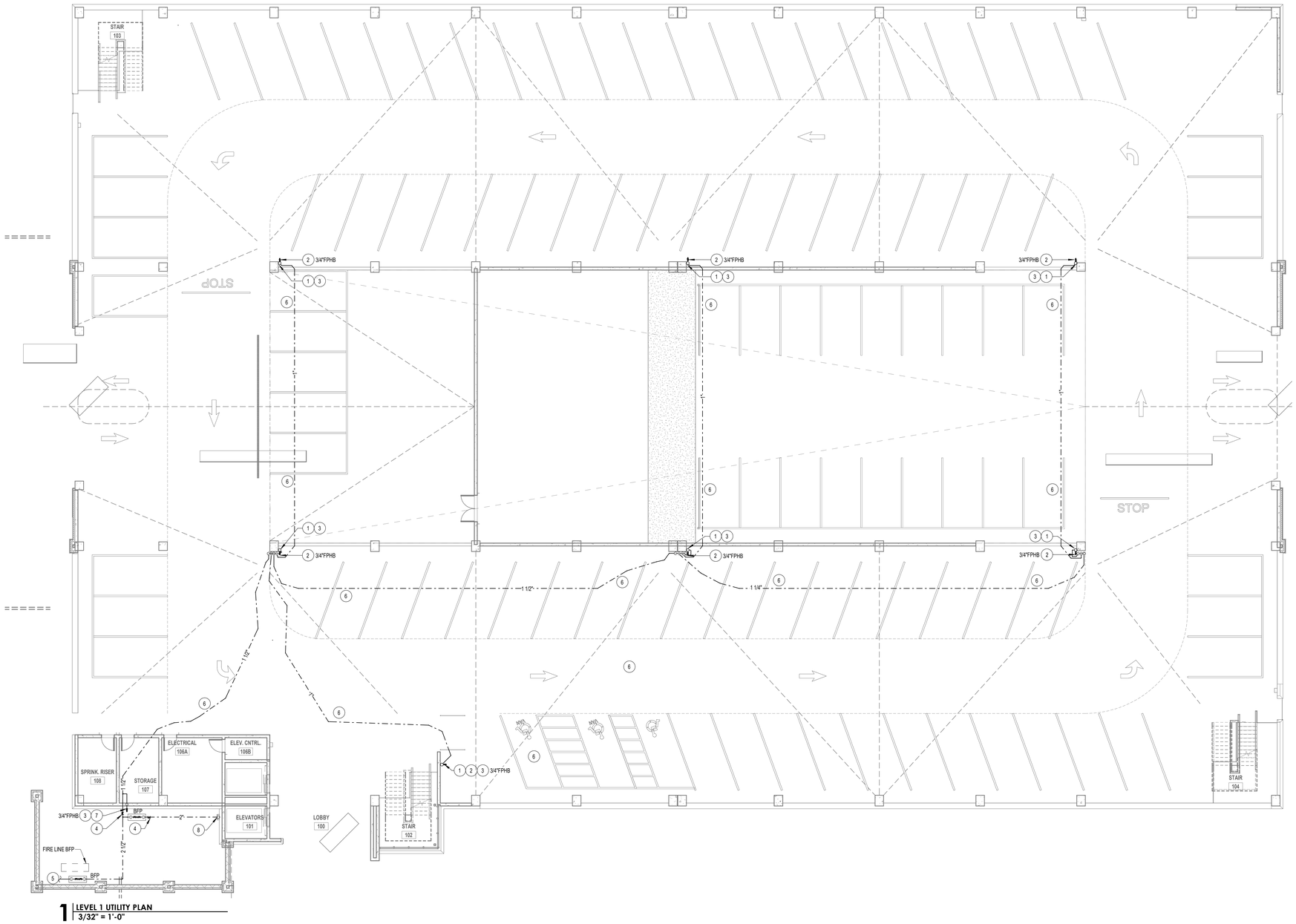

1 **LEVEL 1 UTILITY PLAN**
3/32" = 1'-0"

UTILITY PLAN NOTES:

1. DOMESTIC COLD WATER (CW) SHUT OFF VALVE (BALL VALVE), LOCATED IN VERTICAL RISER, TYPICAL ALL RISERS.
2. 1" CW UP FROM BELOW SLAB TO 3/4" FREEZE PROOF HOSE BIBB (FPHB) ON THIS LEVEL. HOSE BIBB SHALL BE MOUNTED ON THE RISER PIPE AT 18" A.F.F.
3. ALL EXPOSED PIPING SHALL BE BRACED AND SECURED TO PARTIAL HEIGHT WALL. ROUTE 1" UP TO SERVE HOSE BIBBS ON FLOORS ABOVE. CONTRACTOR MUST COORDINATE AND ADJUST PIPING AS REQUIRED TO ACCOMMODATE STRUCTURE. ALL EXPOSED WATER PIPING SHALL BE INSULATED WITH MINIMUM 16 MIL ALUMINUM JACKET.
4. UNDERGROUND WATER SHUTOFF VALVE IN CAST IRON BOX LABELED "WATER".
5. RE: CIVIL FOR CONTINUATION OF DOMESTIC WATER. PROVIDE BACKFLOW PREVENTOR (BFP) WITH HOT BOX, 1.5 KW HEAT, 120/1/60.
6. ALL CW PIPING ON THIS LEVEL IS UNDERGROUND UNLESS NOTED OTHERWISE.
7. 3/4" CW PIPING ROUTED UNDERGROUND AND UP TO 3/4" FREEZEPROOF HOSE BIBB. PROVIDE SHUT OFF VALVE AND BFP IN ACCESSIBLE LOCATION.
8. 2" CW TO OWNER PROVIDED RAINBIRD TYPE IRRIGATION CONTROLLER. CONTROLLER IN LOCATION DETERMINED BY ARCHITECT. PROVIDE BACKFLOW PREVENTOR (BFP) WITH HOT BOX, 1.5 KW HEAT, 120/1/60.

keyplan

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North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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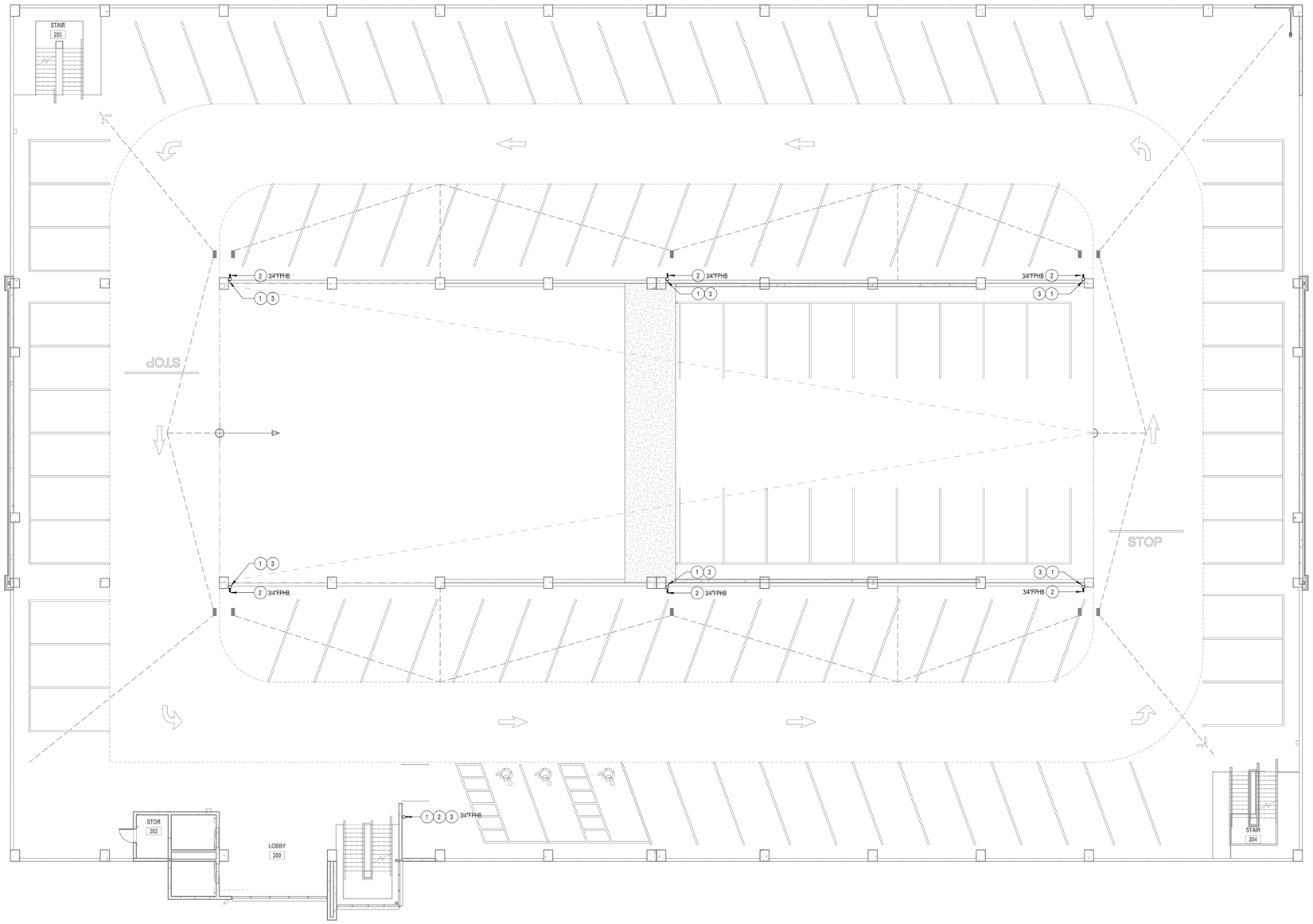
LEVEL 1 UTILITY PLAN

P1.6



UTILITY PLAN NOTES:

1. DOMESTIC COLD WATER (CW) SHUT OFF VALVE (BALL VALVE), LOCATED IN VERTICAL RISER, TYPICAL ALL RISERS.
2. 1" CW UP FROM BELOW SLAB TO 3/4" FREEZE PROOF HOSE BIBB (FPHB) ON THIS LEVEL. HOSE BIBB SHALL BE MOUNTED ON THE RISER PIPE AT 18" A.F.F.
3. ALL EXPOSED PIPING SHALL BE BRACED AND SECURED TO PARTIAL HEIGHT WALL. ROUTE 1" UP TO SERVE HOSE BIBBS ON FLOORS ABOVE. CONTRACTOR MUST COORDINATE AND ADJUST PIPING AS REQUIRED TO ACCOMMODATE STRUCTURE. ALL EXPOSED WATER PIPING SHALL BE INSULATED WITH MINIMUM 16 MIL ALUMINUM JACKET.

1 LEVEL 2 UTILITY PLAN
3/32" = 1'-0"

keyplan

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FRANK SAVILLE THOMPSON 28854 PROFESSIONAL ENGINEER IN CIVIL CALIFORNIA

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LEVEL 2 UTILITY PLAN

P1.7

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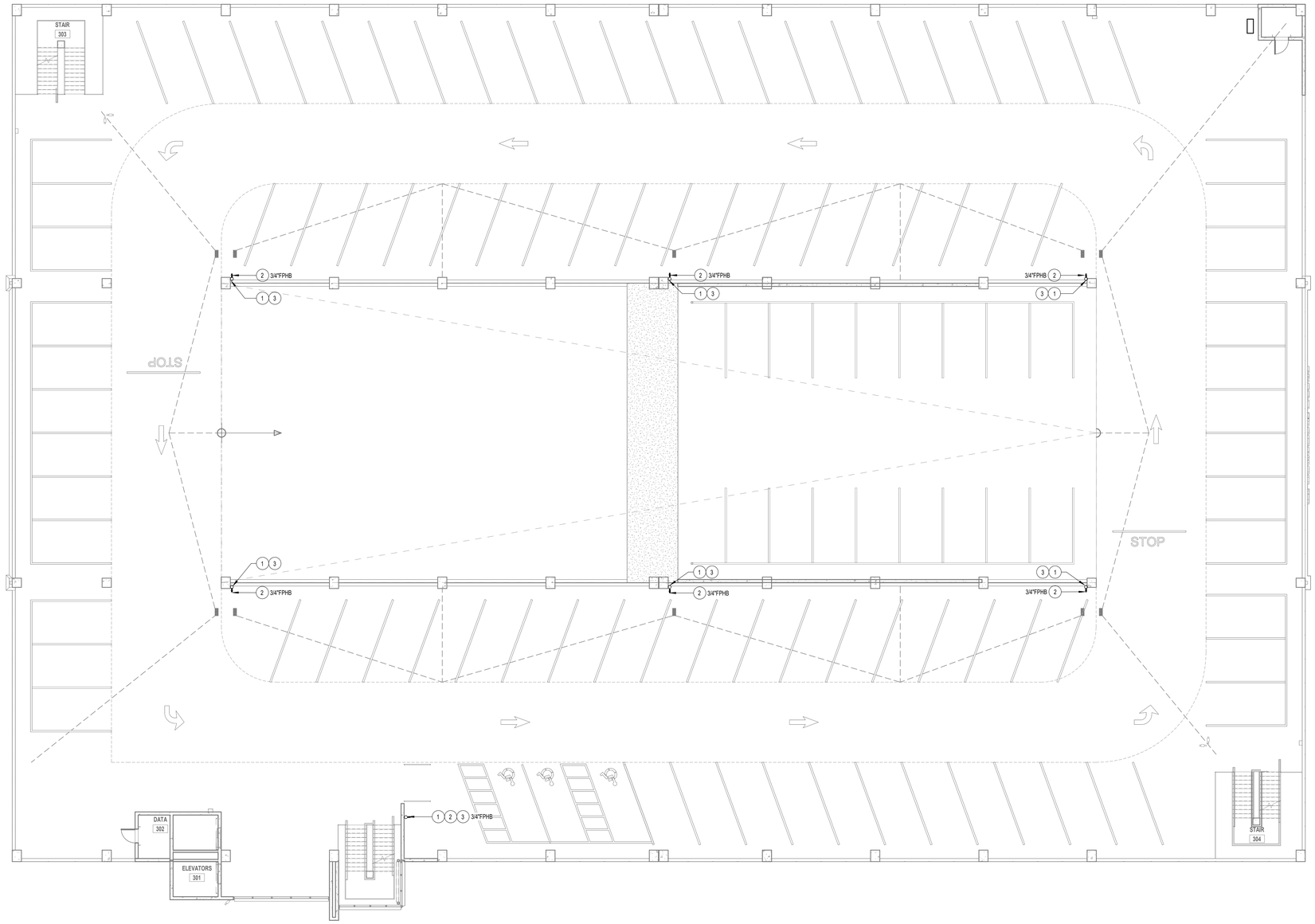

UTILITY PLAN NOTES:

1. DOMESTIC COLD WATER (CW) SHUT OFF VALVE (BALL VALVE), LOCATED IN VERTICAL RISER, TYPICAL ALL RISERS.
2. 1" CW UP FROM BELOW SLAB TO 3/4" FREEZE PROOF HOSE BIBB (FPHB) ON THIS LEVEL. HOSE BIBB SHALL BE MOUNTED ON THE RISER PIPE AT 18" A.F.F.
3. ALL EXPOSED PIPING SHALL BE BRACED AND SECURED TO PARTIAL HEIGHT WALL. ROUTE 1" UP TO SERVE HOSE BIBBS ON FLOORS ABOVE IF ADD ALTERNATES ARE ACCEPTED. CONTRACTOR MUST COORDINATE AND ADJUST PIPING AS REQUIRED TO ACCOMMODATE STRUCTURE. ALL EXPOSED WATER PIPING SHALL BE INSULATED WITH MINIMUM 16 MIL ALUMINUM JACKET.

1 LEVEL 3 UTILITY PLAN
3/32" = 1'-0"

keyplan

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FRANK SAVILLE THOMPSON 28854 LICENSED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING 09-01-26

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LEVEL 3 UTILITY PLAN

P1.8

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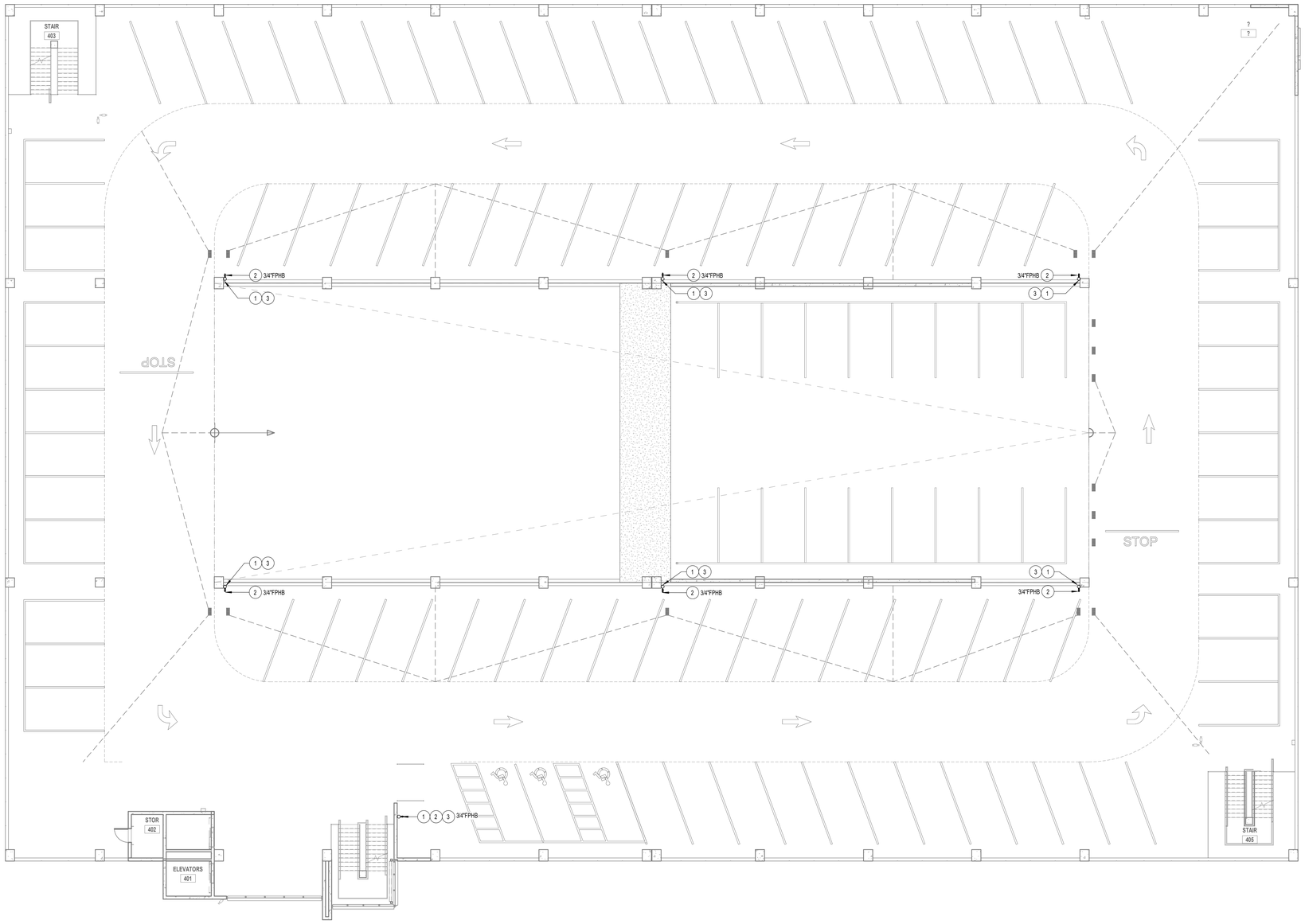

1 LEVEL 4 UTILITY PLAN ADD ALTERNATE #1
3/32" = 1'-0"

UTILITY PLAN NOTES:

1. DOMESTIC COLD WATER (CW) SHUT OFF VALVE (BALL VALVE), LOCATED IN VERTICAL RISER, TYPICAL ALL RISERS.
2. 1" CW UP FROM BELOW SLAB TO 3/4" FREEZE PROOF HOSE BIBB (FPHB) ON THIS LEVEL. HOSE BIBB SHALL BE MOUNTED ON THE RISER PIPE AT 18" A.F.F.
3. ALL EXPOSED PIPING SHALL BE BRACED AND SECURED TO PARTIAL HEIGHT WALL. ROUTE 1" UP TO SERVE HOSE BIBBS ON FLOOR ABOVE IF ADD ALTERNATE #2 IS ACCEPTED . CONTRACTOR MUST COORDINATE AND ADJUST PIPING AS REQUIRED TO ACCOMMODATE STRUCTURE. ALL EXPOSED WATER PIPING SHALL BE INSULATED WITH MINIMUM 16 MIL ALUMINUM JACKET.

keyplan

WHLC ARCHITECTURE

STATE OF LOUISIANA
FRANK LOUIS ANDERSON
RIBBON
PROFESSIONAL ENGINEER
IN
CIVIL
LICENSED
PROFESSIONAL ENGINEER
09/09/26

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LEVEL 4 UTILITY PLAN ADD ALTERNATE #1

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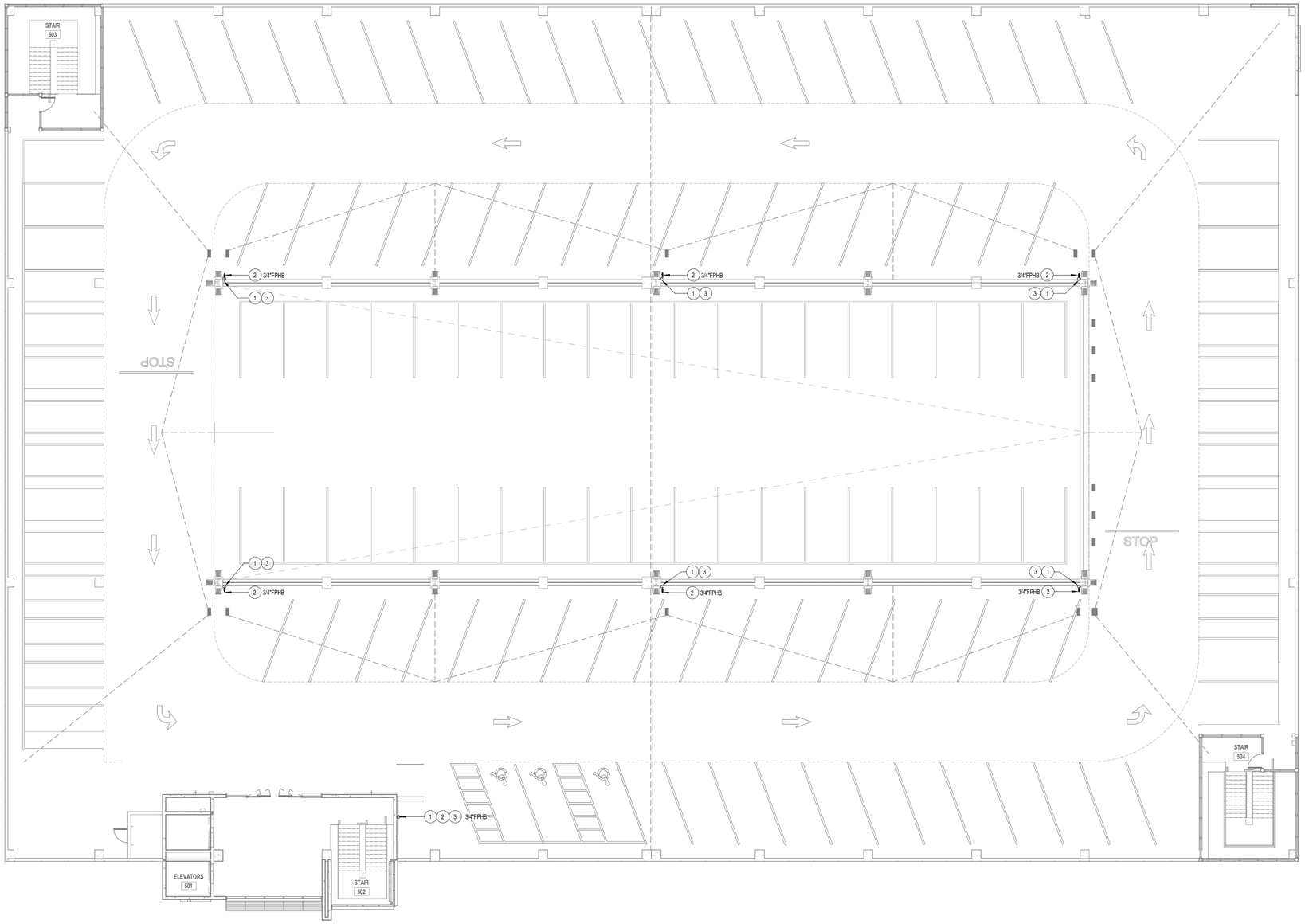

UTILITY PLAN NOTES:

1. DOMESTIC COLD WATER (CW) SHUT OFF VALVE (BALL VALVE), LOCATED IN VERTICAL RISER, TYPICAL ALL RISERS.
2. 1" CW UP FROM BELOW SLAB TO 3/4" FREEZE PROOF HOSE BIBB (FPHB) ON THIS LEVEL. HOSE BIBB SHALL BE MOUNTED ON THE RISER PIPE AT 18" A.F.F..
3. ALL EXPOSED PIPING SHALL BE BRACED AND SECURED TO PARTIAL HEIGHT WALL CONTRACTOR MUST COORDINATE AND ADJUST PIPING AS REQUIRED TO ACCOMMODATE STRUCTURE. ALL EXPOSED WATER PIPING SHALL BE INSULATED WITH MINIMUM 16 MIL ALUMINUM JACKET.

1 LEVEL 5 UTILITY PLAN ADD ALTERNATE #2
3/32" = 1'-0"

keyplan

WHLC ARCHITECTURE

FRANK SAVILLE THOMPSON 28854 REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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LEVEL 5 UTILITY PLAN ADD ALTERNATE #2

P1.10

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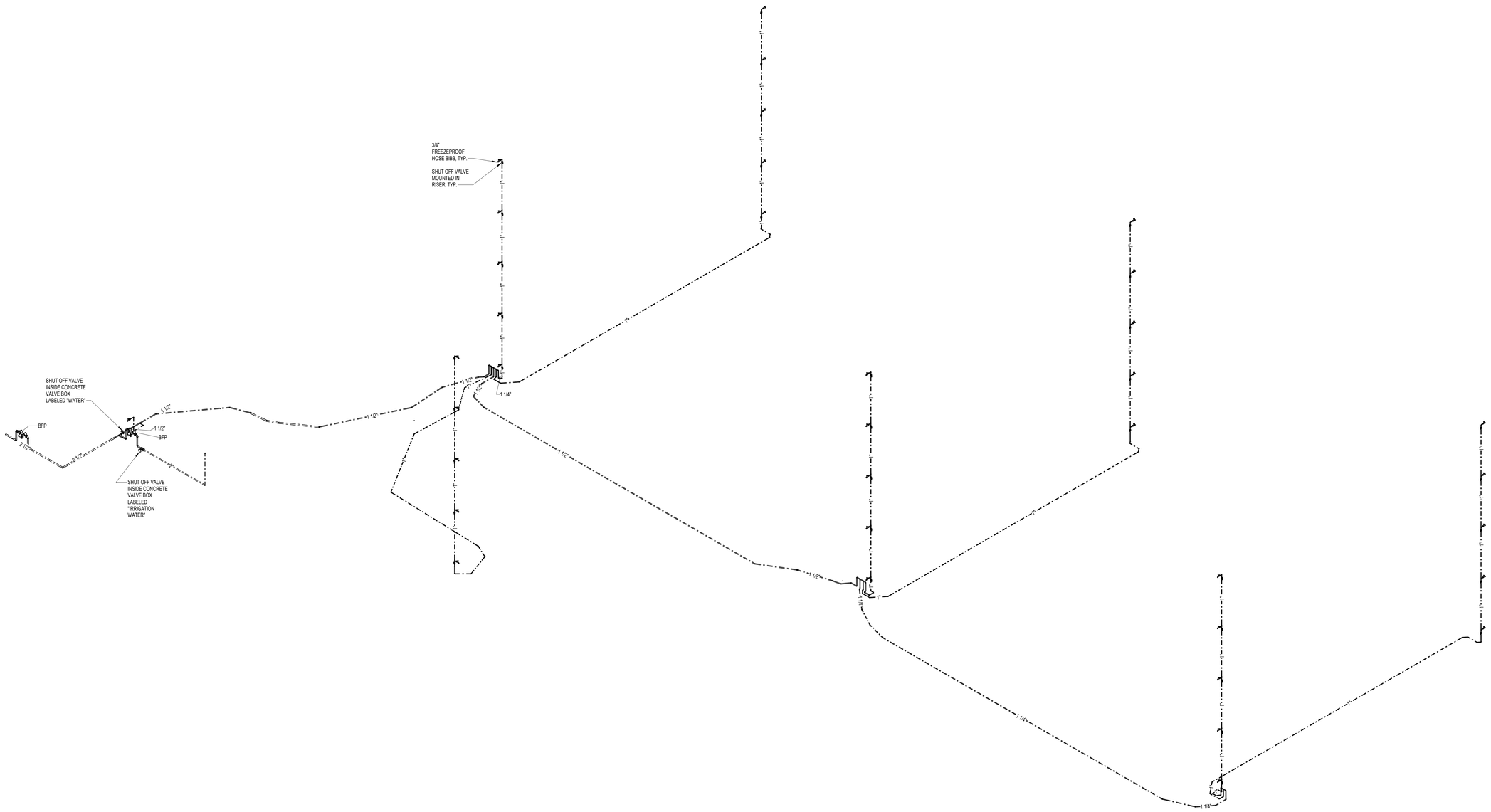

1 DOMESTIC WATER RISER DIAGRAM

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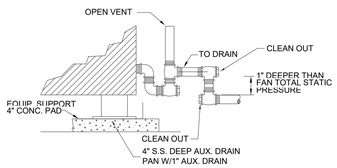
DOMESTIC WATER PIPING DIAGRAM

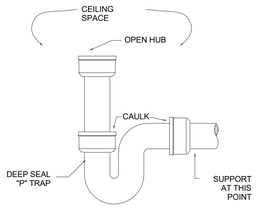
P1.11

PLUMBING FIXTURE SCHEDULE - CONTRACTOR MUST VERIFY MOUNTING HEIGHTS ON ALL PLUMBING FIXTURES PRIOR TO ORDERING AND ROUGH-IN, NO EXCEPTIONS							
TAG	FIXTURE DESCRIPTION	MANUFACTURER AND MODEL NUMBER	CONNECTION SIZE				NOTES
			CW	HW	SAN.	VENT	
FPHB	EXTERIOR ¾" HOSE BIBB, NARROW WALL, WITH LOOSE KEY	WADE 8709 WOODFORD B26P3/4 MIFAB HY-5000-NPB	¾"	--	--	--	PROVIDE 2 LOOSE KEYS PER HYDRANT. CONTRACTOR SHALL PROVIDE ISOLATION VALVE IN CEILING PRIOR TO THE HOSE BIBB. CONTRACTOR MUST SECURE EXTERIOR HOSE BIBB PIPING TO NEAREST COLUMN AND MUST INSULATE AND WRAP WITH ALUMINUM JACKET.
TD	39.4" LONG W/ 8"INTERNAL WIDTH TRENCH DRAIN W/GALVANIZED STEEL INTEGRAL RAIL, DUCTILE IRON SLOTTED HEELPROOF GRATE WITH CONCRETE CHANNEL	MIFAB T1760-PB-13-BO4 8"WIDE W/ MIFAB T200-PGE-4-HP GRATE, MIFAB T1700 CONCRETE CHANNEL	--	--	6"SD	--	
FD-1	FLOOR DRAIN 4" DIAMETER (SEE PLANS FOR SIZE), ROUND TOP AND FLASHING COLLAR, ADJ. STAINLESS STEEL STRAINER HEAD, TRAP PRIMER CONNECTION, PROVIDE BACKWATER VALVE	MIFAB F100(4) P-C-S6-3 JAY R. SMITH 2005 WADE 1100G	--	--	4"	3"	ALL FLOOR DRAINS SHALL BE INSTALLED WITH ½" TRAP PRIMER. SEE PLANS FOR SANITARY SEWER AND VENT CONNECTION SIZES. BACKWATER VALVE - SIOUX CHIEF 869 SERIES, 4" SCHEDULE 40 HUB PVC VALVE BODY WITH ACCESS SLEEVE KIT
RD	CAST IRON ROOF DRAIN WITH ADJUSTABLE EXTENSION AND CAST IRON ROOF GUARD	MIFAB R1200-M SERIES W/R1200-RG JAY R. SMITH 1015-CID WADE 3000ADF-f2	--	--	--	--	SEE PLANS FOR ROOF DRAIN AND STORM DRAIN PIPING CONNECTION SIZES. EMERGENCY ROOF DRAINS TO BE SAME MODEL AND TYPE AS STANDARD ROOF DRAINS.
CO	CLEANOUT PLUG W/ NICKEL BRONZE ROUND TOP ALL CLEANOUTS LOCATED IN GARAGE SHALL BE TRAFFIC RATED, NO EXCEPTIONS	MIFAB C1100-XR WADE 6004TY.1 ZURN Z1400	--	--	--	--	SEE PLANS FOR SIZE
HD	CAST IRON HUB DRAIN WITH SEDIMENT BUCKET	MIFAB 1100-C-DD WATTS FD200-DD-1 ZURN Z211-S-Y	--	--	2"	2"	
CB	CATCH BASIN RE: CIVIL FOR SPECS						

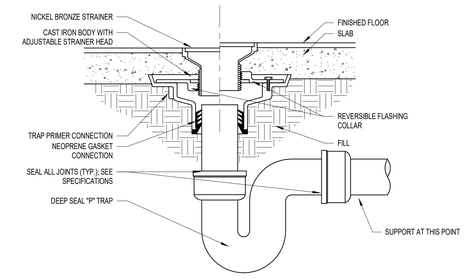
ELEVATOR SUMP PUMP SCHEDULE								
NOTES: 1. PUMP TO BE MOUNTED AND SECURED TO WALL								
					ELECTRIC SERVICE			
MARK	DESCRIPTION	FLOW	DP	POWER	VOLTS	PH	FREQ	ACCEPTABLE MANUFACTURERS
SP-1	ELEVATOR SUMP PUMP	10 GPM	15 ftH2O	0.34 hp	115 V	1	60 Hz	HYDROMATIC HTS33 SERIES; LIBERTY 230 SERIES
SP-2	ELEVATOR SUMP PUMP	10 GPM	15 ftH2O	0.33 hp	115 V	1	60 Hz	HYDROMATIC HTS33 SERIES; LIBERTY 230 SERIES



1 DETAIL - CONDENSATE DRAIN
NTS

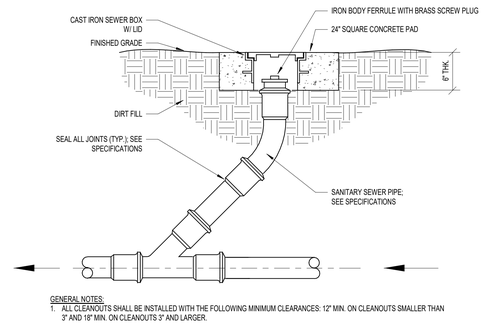


2 DETAIL - HUB DRAIN
NTS



GENERAL NOTES:
1. ALL FLOOR DRAINS SHALL BE INSTALLED WITH A 1/2" TRAP PRIMER.
2. COORDINATE ROUGH IN HEIGHT OF ALL FLOOR DRAINS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED.

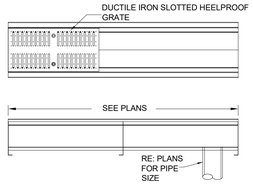
3 DETAIL - FLOOR DRAIN
NOT TO SCALE



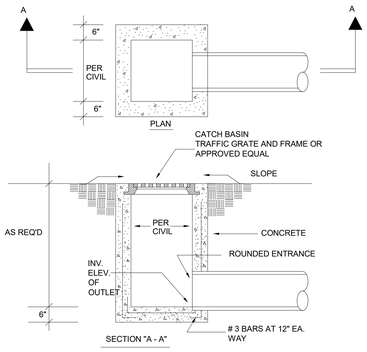
GENERAL NOTES:
1. ALL CLEANOUTS SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM CLEARANCES: 12" MIN. ON CLEANOUTS SMALLER THAN 3" AND 18" MIN. ON CLEANOUTS 3" AND LARGER.

4 DETAIL - EXTERIOR CLEANOUT
NOT TO SCALE

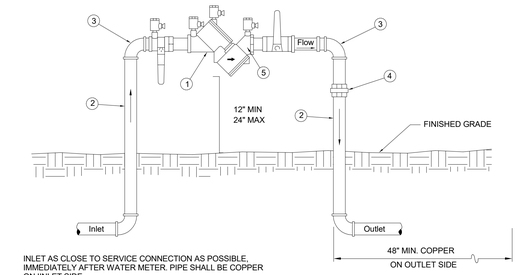
CONTRACTOR IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION, LOCAL CODES AND MANUFACTURER'S REQUIREMENTS. TRENCH DRAIN SHALL BE HEAVTY DUTY TRAFFIC RATED.



5 DETAIL - TRENCH DRAIN
NTS



6 DETAIL - CATCH BASIN
NTS



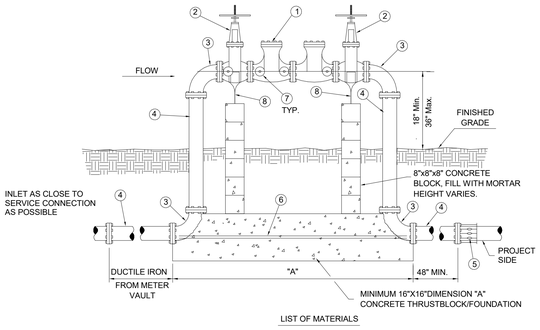
INLET AS CLOSE TO SERVICE CONNECTION AS POSSIBLE. IMMEDIATELY AFTER WATER METER. PIPE SHALL BE COPPER ON IINLET SIDE.

LIST OF MATERIALS

1. APPROVED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
2. PIPE SPOOL, TYPE "L" HARD COPPER, 3/4" THRU 2-1/2"
3. 90° ELL, COPPER, 3/4" THRU 2-1/2"
4. PIPE UNION, BRASS OR COPPER
5. TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH CAPS INSTALLED, 4 (FOUR) REQUIRED.

GANERAL NOTES:
1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTING AGENT.
2. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS.
3. APPROVAL FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM AMERICAN SOCIETY OF SANITATION ENGINEERS.
4. PROVIDE HOT BOX WITH 1.5 KW HEAT, RE: ELECTRICAL.

7 DETAIL - BACKFLOW PREVENTER - DOMESTIC WATER
NOT TO SCALE



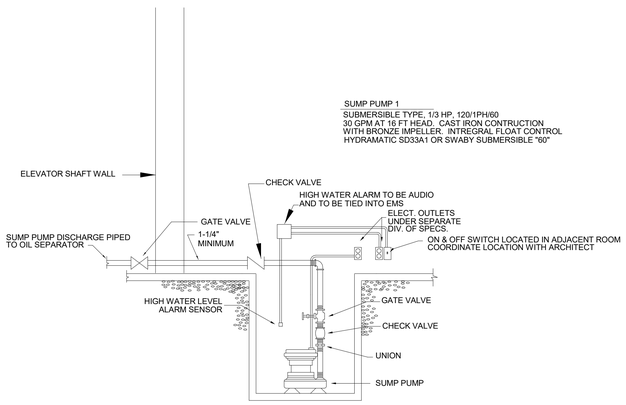
LIST OF MATERIALS

1. APPROVED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY
2. RESILIENT SEATED GATE VALVE, O.S.&Y. FOR FIRE LINE CONNECTION
3. 90° ELL, FLANGED D.I.P. 3" THRU 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
4. PIPE SPOOL, FLANGED D.I.P. 3" THRU 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
5. FLANGED ADAPTER WHEN REQUIRED.
6. 3/4" ZINC COATED THREADED ROD FOR 6" AND LARGER 5/8" ROD ON 3" TO 4", BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES
7. TEST COCKS WITH BRASS PLUGS OR ADAPTERS WITH CAPS INSTALLED. (4 REQUIRED)
8. ADJUSTABLE METAL PIPE SUPPORTS AND CONCRETE BLOCK SUPPORTS WITH 1" ADJUSTING ROD AND NUT ASSEMBLIES 4" AND LARGER. INSTALL ABOVE GRADE.

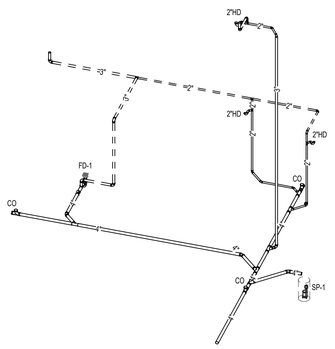
GENERAL NOTES:
1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTING AGENT.
2. BACKFLOW PREVENTERS SHALL BE FREEZE PROTECTED BY HOT BOX WITH 1.5 KW HEAT, RE: ELECTRICAL.
3. BACKFLOW PREVENTERS ON FIRE LINES REQUIRE TAMPER SWITCHES ON SHUT OFF VALVES.
4. VERTICAL INSTALLATIONS OF ASSEMBLIES ON FIRE SPRINKLER SYSTEMS ARE ALLOWED USING ASSEMBLIES APPROVED FOR USE IN THE VERTICAL POSITION ON FIRE SYSTEMS.
5. BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES

8 DETAIL - BACKFLOW PREVENTER - FIRE PROTECTION
NOT TO SCALE



9 DETAIL - SUMP PUMP
NTS



10 SANITARY RISER DIAGRAM

keyplan

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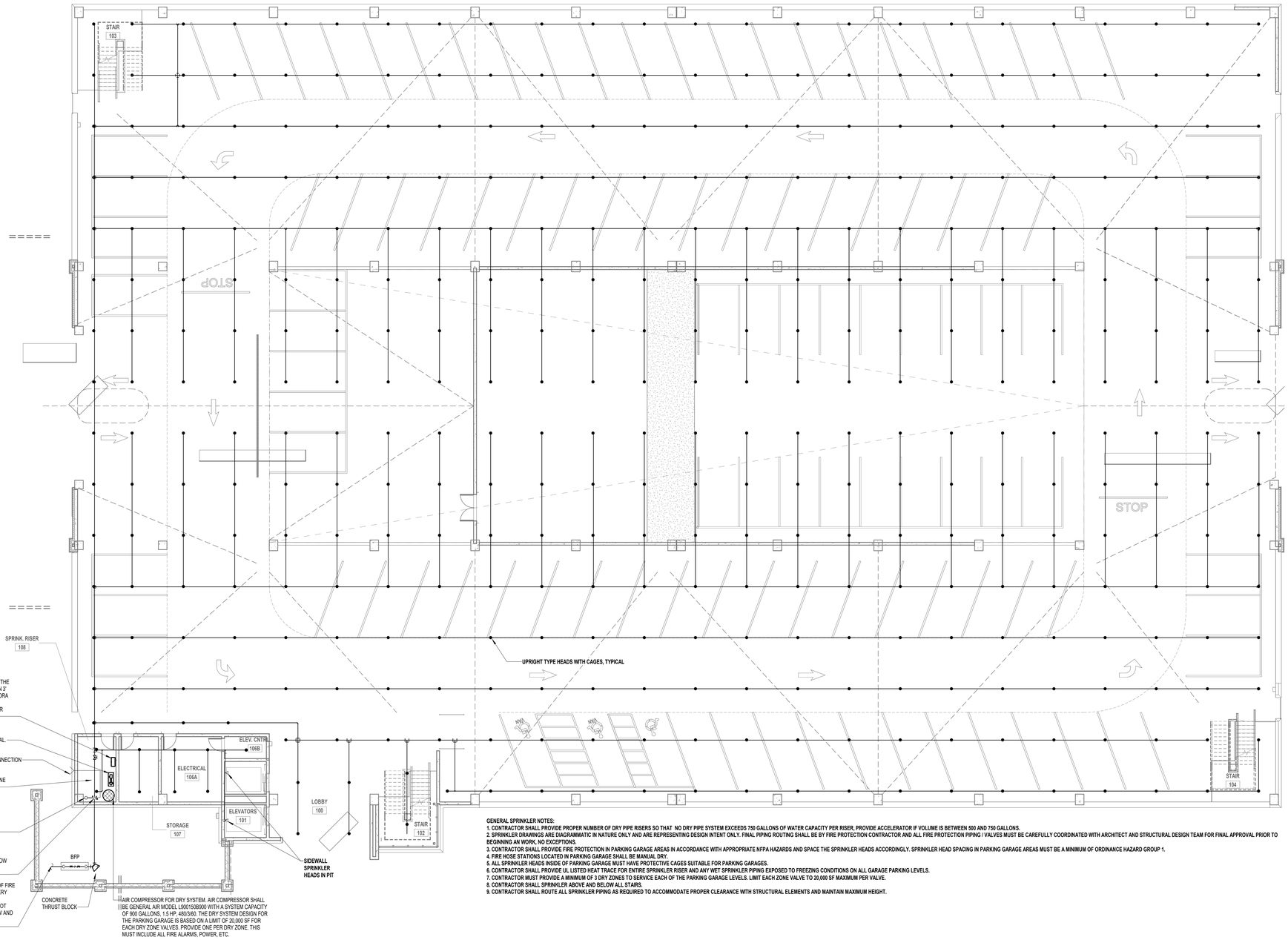
PLUMBING SCHEDULES & DETAILS

P2.0

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

North Oaks Health System



GENERAL SPRINKLER NOTES:

1. CONTRACTOR SHALL PROVIDE PROPER NUMBER OF DRY PIPE RISERS SO THAT NO DRY PIPE SYSTEM EXCEEDS 750 GALLONS OF WATER CAPACITY PER RISER, PROVIDE ACCELERATOR IF VOLUME IS BETWEEN 500 AND 750 GALLONS.
2. SPRINKLER DRAWINGS ARE DIAGRAMMATIC IN NATURE ONLY AND ARE REPRESENTING DESIGN INTENT ONLY. FINAL PIPING ROUTING SHALL BE BY FIRE PROTECTION CONTRACTOR AND ALL FIRE PROTECTION PIPING / VALVES MUST BE CAREFULLY COORDINATED WITH ARCHITECT AND STRUCTURAL DESIGN TEAM FOR FINAL APPROVAL PRIOR TO BEGINNING AN WORK, NO EXCEPTIONS.
3. CONTRACTOR SHALL PROVIDE FIRE PROTECTION IN PARKING GARAGE AREAS IN ACCORDANCE WITH APPROPRIATE NFPA HAZARDS AND SPACE THE SPRINKLER HEADS ACCORDINGLY. SPRINKLER HEAD SPACING IN PARKING GARAGE AREAS MUST BE A MINIMUM OF ORDINANCE HAZARD GROUP 1.
4. FIRE HOSE STATIONS LOCATED IN PARKING GARAGE SHALL BE MANUAL DRY.
5. ALL SPRINKLER HEADS INSIDE OF PARKING GARAGE MUST HAVE PROTECTIVE CAGES SUITABLE FOR PARKING GARAGES.
6. CONTRACTOR SHALL PROVIDE UL LISTED HEAT TRACE FOR ENTIRE SPRINKLER RISER AND ANY WET SPRINKLER PIPING EXPOSED TO FREEZING CONDITIONS ON ALL GARAGE PARKING LEVELS.
7. CONTRACTOR MUST PROVIDE A MINIMUM OF 3 DRY ZONES TO SERVICE EACH OF THE PARKING GARAGE LEVELS. LIMIT EACH ZONE VALVE TO 20,000 SF MAXIMUM PER VALVE.
8. CONTRACTOR SHALL SPRINKLER ABOVE AND BELOW ALL STAIRS.
9. CONTRACTOR SHALL ROUTE ALL SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE PROPER CLEARANCE WITH STRUCTURAL ELEMENTS AND MAINTAIN MAXIMUM HEIGHT.

1 LEVEL 1 SPRINKLER PLAN
3/32" = 1'-0"

keyplan

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NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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LEVEL 1 SPRINKLER PLAN

SP1.1

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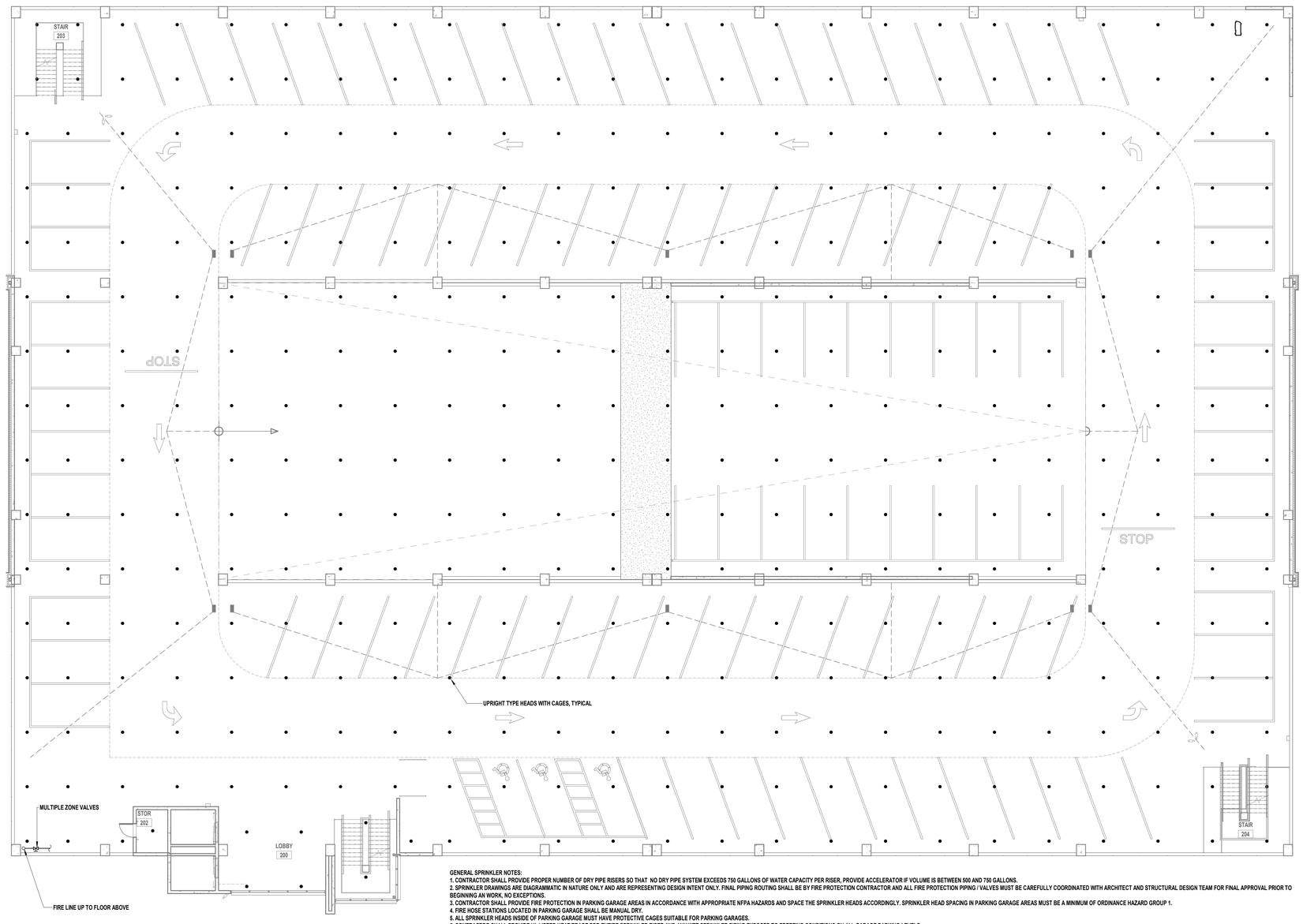

REFER TO SHEET SP1.1 FOR GENERAL SPRINKLER PIPING ROUTING DESIGN CONCEPT

1 LEVEL 2 SPRINKLER PLAN
3/32" = 1'-0"

GENERAL SPRINKLER NOTES:

1. CONTRACTOR SHALL PROVIDE PROPER NUMBER OF DRY PIPE RISERS SO THAT NO DRY PIPE SYSTEM EXCEEDS 750 GALLONS OF WATER CAPACITY PER RISER, PROVIDE ACCELERATOR IF VOLUME IS BETWEEN 500 AND 750 GALLONS.
2. SPRINKLER DRAWINGS ARE DIAGRAMMATIC IN NATURE ONLY AND ARE REPRESENTING DESIGN INTENT ONLY. FINAL PIPING ROUTING SHALL BE BY FIRE PROTECTION CONTRACTOR AND ALL FIRE PROTECTION PIPING / VALVES MUST BE CAREFULLY COORDINATED WITH ARCHITECT AND STRUCTURAL DESIGN TEAM FOR FINAL APPROVAL PRIOR TO BEGINNING AN WORK, NO EXCEPTIONS.
3. CONTRACTOR SHALL PROVIDE FIRE PROTECTION IN PARKING GARAGE AREAS IN ACCORDANCE WITH APPROPRIATE NFPA HAZARDS AND SPACE THE SPRINKLER HEADS ACCORDINGLY. SPRINKLER HEAD SPACING IN PARKING GARAGE AREAS MUST BE A MINIMUM OF ORDINANCE HAZARD GROUP 1.
4. FIRE HOSE STATIONS LOCATED IN PARKING GARAGE SHALL BE MANUAL DRY.
5. ALL SPRINKLER HEADS INSIDE OF PARKING GARAGE MUST HAVE PROTECTIVE CAGES SUITABLE FOR PARKING GARAGES.
6. CONTRACTOR SHALL PROVIDE UL LISTED HEAT TRACE FOR ENTIRE SPRINKLER RISER AND ANY WET SPRINKLER PIPING EXPOSED TO FREEZING CONDITIONS ON ALL GARAGE PARKING LEVELS.
7. CONTRACTOR MUST PROVIDE A MINIMUM OF 3 DRY ZONES TO SERVICE EACH OF THE PARKING GARAGE LEVELS. LIMIT EACH ZONE VALVE TO 20,000 SF MAXIMUM PER VALVE.
8. CONTRACTOR SHALL SPRINKLER ABOVE AND BELOW ALL STAIRS.
9. CONTRACTOR SHALL ROUTE ALL SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE PROPER CLEARANCE WITH STRUCTURAL ELEMENTS AND MAINTAIN MAXIMUM HEIGHT.

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WHLC ARCHITECTURE

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Hammond, Louisiana

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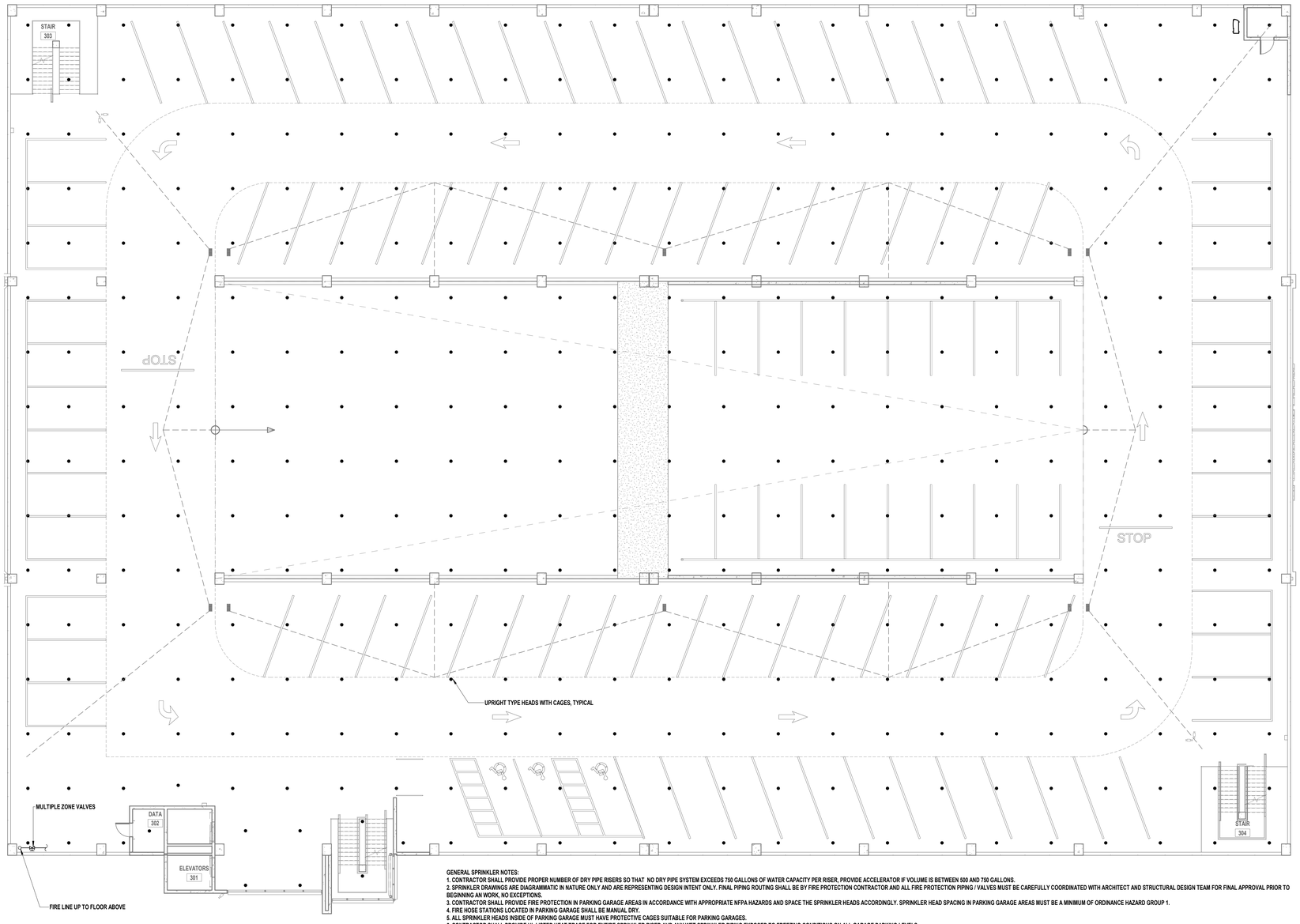
LEVEL 2 SPRINKLER PLAN

SP1.2



REFER TO SHEET SP1.1 FOR GENERAL SPRINKLER PIPING ROUTING DESIGN CONCEPT

1 LEVEL 3 SPRINKLER PLAN
3/32" = 1'-0"

GENERAL SPRINKLER NOTES:
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7. CONTRACTOR MUST PROVIDE A MINIMUM OF 3 DRY ZONES TO SERVICE EACH OF THE PARKING GARAGE LEVELS. LIMIT EACH ZONE VALVE TO 20,000 SF MAXIMUM PER VALVE.
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9. CONTRACTOR SHALL ROUTE ALL SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE PROPER CLEARANCE WITH STRUCTURAL ELEMENTS AND MAINTAIN MAXIMUM HEIGHT.

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LEVEL 3 SPRINKLER PLAN

SP1.3

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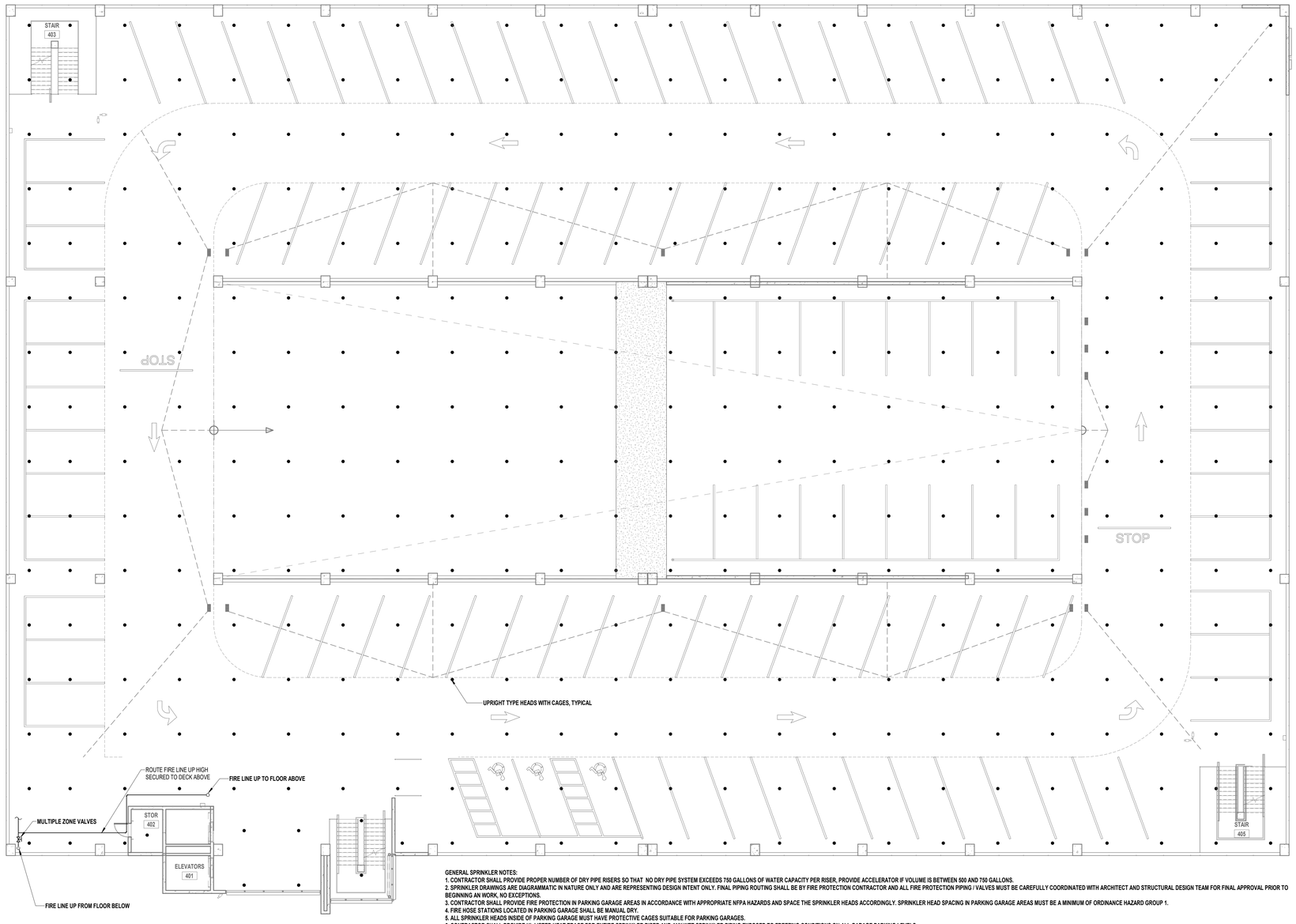

REFER TO SHEET SP1.1 FOR GENERAL SPRINKLER PIPING ROUTING DESIGN CONCEPT

1 LEVEL 4 SPRINKLER PLAN ADD ALTERNATE #2
3/32" = 1'-0"

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LEVEL 4 SPRINKLER PLAN ADD ALTERNATE #1

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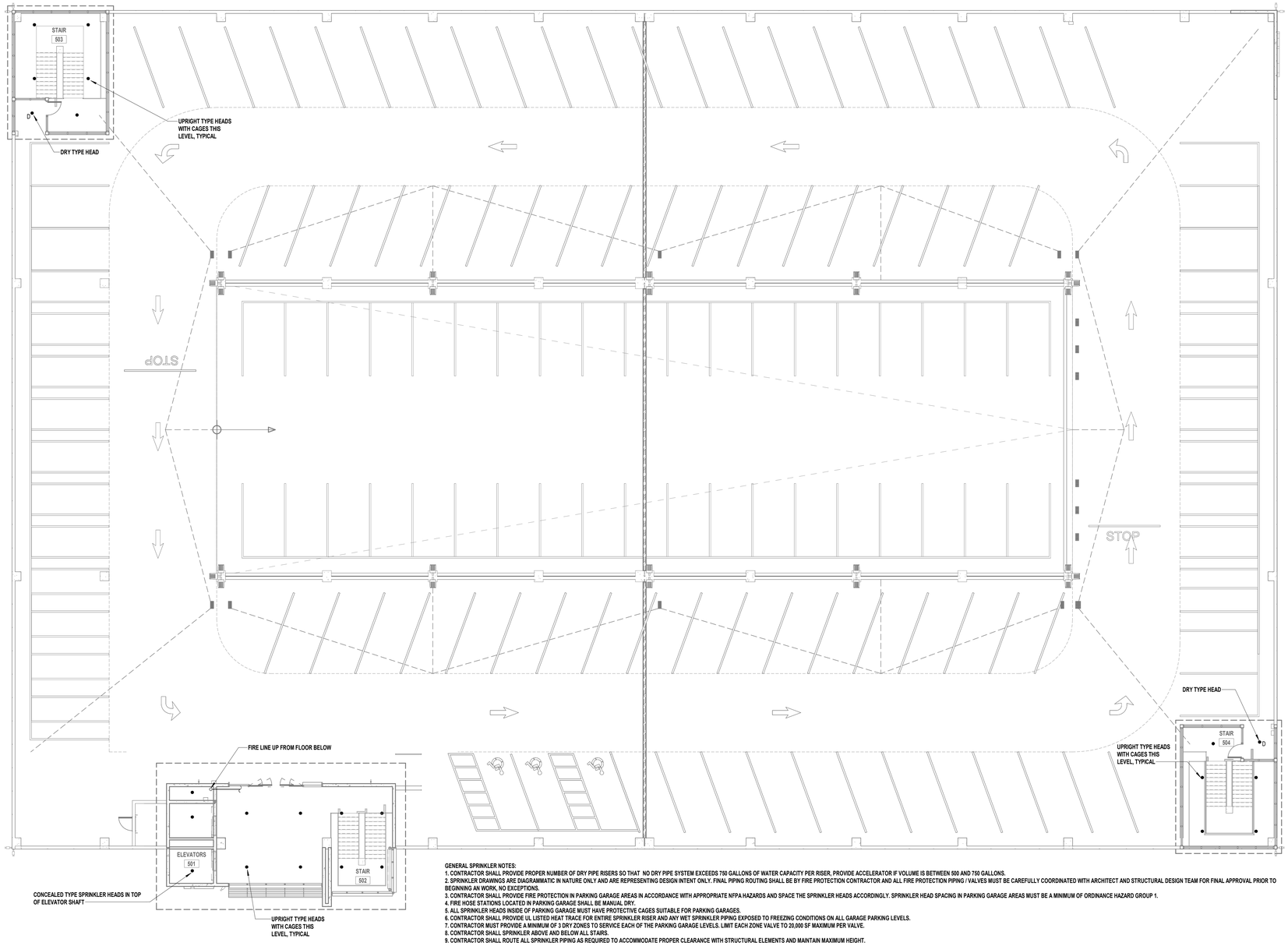

1 LEVEL 5 SPRINKLER PLAN ADD ALTERNATE #2
3/32" = 1'-0"

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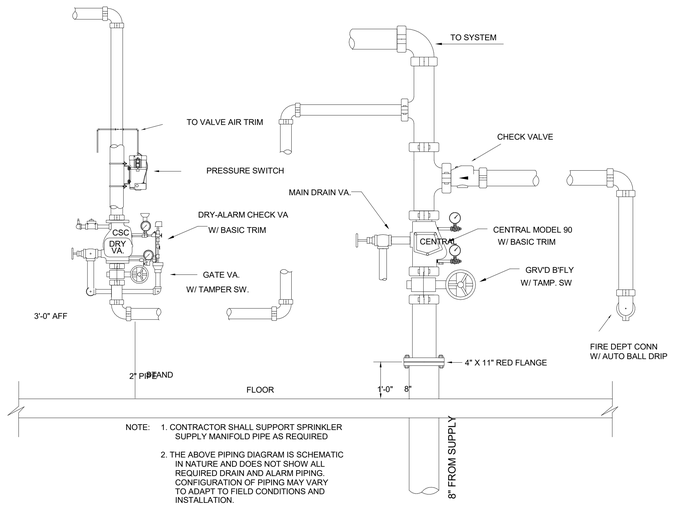
North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

LEVEL 5 SPRINKLER PLAN ADD ALTERNATE #2

SP1.5

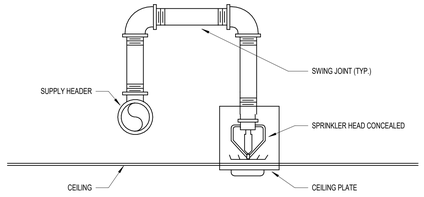


NOTE: 1. CONTRACTOR SHALL SUPPORT SPRINKLER SUPPLY MANIFOLD PIPE AS REQUIRED

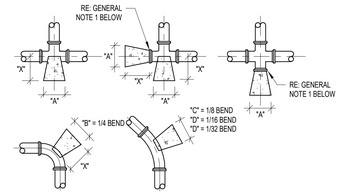
2. THE ABOVE PIPING DIAGRAM IS SCHEMATIC IN NATURE AND DOES NOT SHOW ALL REQUIRED DRAIN AND ALARM PIPING. CONFIGURATION OF PIPING MAY VARY TO ADAPT TO FIELD CONDITIONS AND INSTALLATION.

NOTE: PROVIDE AIR COMPRESSOR POWER, CONTROLS POWER, ETC. TO ACCOMMODATE DRY SYSTEM.

1 DETAIL - WET / DRY SPRINKLER RISER
NTS



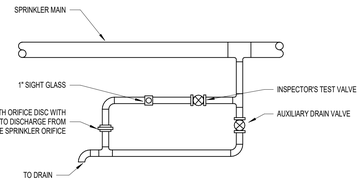
2 DETAIL - CONCEALED SPRINKLER HEAD
1/8" = 1'-0"



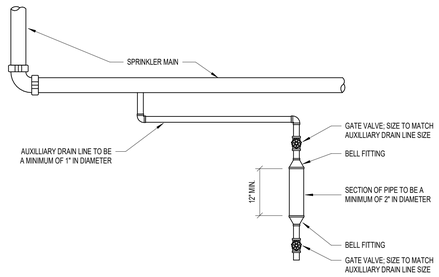
PIPE SIZE	"A" PLUGS & TEES	"B" 90° BENDS	"C" 45° BENDS	"D" 22.25° & 11.25° BENDS	DEPTH OF BLOCK
6"	1'-3"	2'-0"	1'-8"	1'-0"	1'-0"
8"	1'-3"	2'-4"	1'-10"	1'-3"	1'-3"
10"	1'-3"	2'-4"	1'-10"	1'-3"	1'-3"

GENERAL NOTES:
1. CONCRETE BLOCK SHALL BEAR AGAINST PLUG OR BLIND FLANGE ONLY AND SHALL NOT ENCASE TEE OR CROSS.
2. ALL BENDS, TEES, WYES, AND PLUGS TO HAVE STANDARD BLOCKING AS PER SCHEDULE AND DETAIL DIMENSION "X" TO BE A MINIMUM OF 1'-0"; DIMENSION TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH WALL.

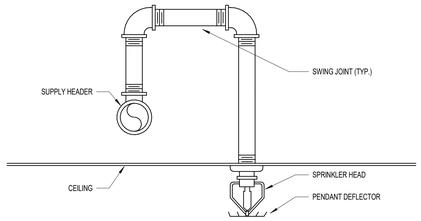
3 DETAIL - CONCRETE THRUST BLOCKS
1/8" = 1'-0"



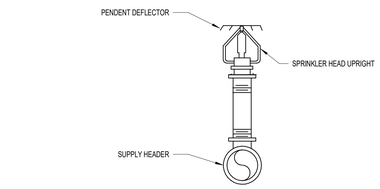
4 DETAIL - INSPECTOR'S TEST VALVE
1/8" = 1'-0"



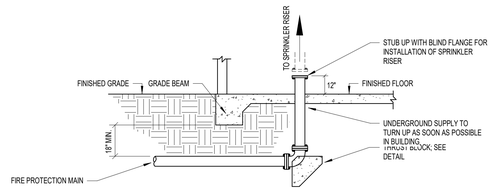
5 DETAIL - LOW POINT AUXILLIARY DRAIN
NTS



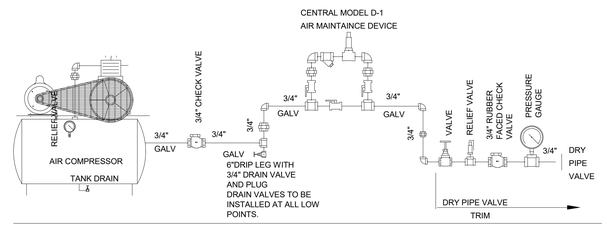
6 DETAIL - PENDANT SPRINKLER HEAD
1/8" = 1'-0"



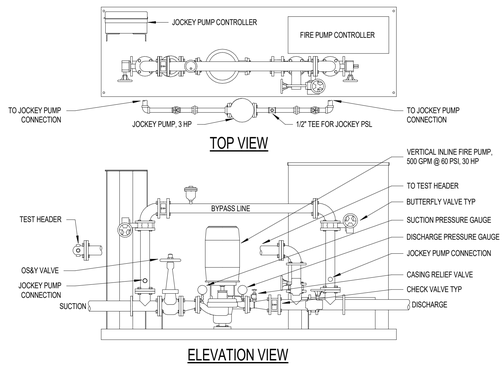
7 DETAIL - UPRIGHT SPRINKLER HEAD
1/8" = 1'-0"



8 DETAIL - FIRE PROTECTION MAIN
NOT TO SCALE



9 DETAIL - AIR COMPRESSOR SETUP SCHEMATIC
NTS



10 DETAIL - FIRE PUMP
NTS

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SPRINKLER DETAILS

SP2.0

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ELECTRICAL SYMBOL LEGEND

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

GENERAL

Symbol	Description
1	KEYNOTE
A-1,3	CIRCUIT TAG; PANEL AND CIRCUIT DESIGNATION AS INDICATED; E.G. PANEL "A", CIRCUIT #1,3

WIRE, CONDUIT, AND RACEWAY

Symbol	Description
	ABOVE-SLAB CONDUIT & WIRE/CABLING
	BELOW-SLAB CONDUIT & WIRE/CABLING; 3/4" MINIMUM CONDUIT SIZE UON
	HOMERUN TO PANEL; TICK MARKS INDICATED NUMBER OF WIRES

DISTRIBUTION

Symbol	Description
	PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT AS NOTED; INSTALL WITH SUFFICIENT WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.
GEN-ANNC	GENERATOR REMOTE ANNUNCIATOR PANEL; PROVIDE CONDUIT/CABLING TO GENERATOR AS REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS.

EQUIPMENT CONNECTIONS

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

Symbol	Description
	FUSED SAFETY DISCONNECT SWITCH; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH; DO NOT MOUNT DIRECTLY TO EQUIPMENT
J	JUNCTION BOX
M	JUNCTION BOX FOR MOTORIZED DAMPER
S^M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED; DO NOT MOUNT DIRECTLY TO EQUIPMENT; WHEN LOCATED ABOVE CEILING, MOUNT TO STRUCTURAL MEMBER NEARBY.
	ELECTRICAL MOTOR, HORSEPOWER AS NOTED

POWER DEVICES

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

Symbol	Description
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING; SUBSCRIPT (WHEN USED): CR - CORD REEL
	ABOVE-COUNTER DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	GFCI DUPLEX RECEPTACLE
	ABOVE-COUNTER GFCI DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	QUADRAPLEX RECEPTACLE
	ABOVE-COUNTER QUADRAPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	SPECIAL PURPOSE RECEPTACLE; VERIFY NEMA CONFIGURATION WITH THE MANUFACTURER OF THE EQUIPMENT SERVED
	VOICE/DATA/POWER FLUSH FLOOR BOX
	DUPLEX RECEPTACLE FLUSH FLOOR BOX
	QUADRAPLEX RECEPTACLE FLUSH FLOOR BOX

PUBLIC ADDRESS

(PROVIDE 3/4"EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

Symbol	Description
PA	PA SYSTEM SPEAKER
V	PA SYSTEM SPEAKER VOLUME CONTROL
I	PA SYSTEM SPEAKER MOUNT CALL-IN SWITCH

TELECOMMUNICATIONS

(JACKET COLORS TO BE PER THE OWNER'S STANDARDS IF APPLICABLE)

Symbol	Description
	TELECOM TERMINAL BOARD; 0'-1" THICK AC INDOOR GRADE, FIRE RETARDANT PLYWOOD, PAINTED AS SPECIFIED BY THE ARCHITECT OR OWNER
#	DUPLEX DATA OUTLET; REFER TO TELECOMMUNICATIONS NOTES FOR MORE INFORMATION. PROVIDE (2) CABLES UNLESS INDICATED OTHERWISE BY NUMBER ADJACENT TO SYMBOL.
	DUPLEX DATA OUTLET, AS ABOVE, MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING
#	DUPLEX DATA OUTLET, AS ABOVE, MOUNTED ABOVE COUNTER. PROVIDE (2) CABLES UNLESS INDICATED OTHERWISE BY NUMBER ADJACENT TO SYMBOL.
	DUPLEX DATA FLUSH FLOOR BOX; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, TWO (2) CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD
WAP	WIRELESS ACCESS POINT (BY OWNER); PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) CAT 6 CABLE FROM THE ACCESS POINT LOCATION TO THE TELECOM TERMINAL BOARD
TV	LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL TV WALL BOX WITH ONE DUPLEX RECEPTACLE, ONE DUPLEX DATA OUTLET, ONE COAX OUTLET, AND ONE HDMI OUTLET; PROVIDE 1"C, TWO (2) CAT 6 CABLES AND 1"C, ONE (1) CATV CABLE FROM THE BOX TO THE TELECOM TERMINAL BOARD; PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.
TV	LEGRAND EVOLUTION FLOOR MOUNTED (OR POKE THROUGH) 4-GANG OR APPROVED EQUAL COMBO RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER A SINGLE PLATE), AND HDMI; PROVIDE 1-1/4"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, FOUR (4) CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINAL BOARD. ROUTE 1"C WITH HDMI CABLE FROM THE BOX TO THE TV WALL BOX IN THE SAME ROOM. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.
FF #	WALL MOUNTED LEGRAND EVOLUTION OR APPROVED EQUAL FURNITURE FEED. BOX SHALL INCLUDE POWER AND DATA. NUMBER OF DATA CABLES INDICATED BY # ADJACENT TO SYMBOL. PROVIDE 1-1/4" C. TO LOCATION ABOVE ACCESSIBLE CEILING FOR DATA CABLING. PROVIDE CONDUIT/CONDUCTOR FOR POWER PER PANEL SCHEDULE. CONTRACTOR SHALL MAKE ALL TERMINATIONS TO SYSTEMS FURNITURE PROVIDED BY OTHERS.
FF #	FLOOR MOUNTED (OR POKE THROUGH) LEGRAND EVOLUTION OR APPROVED EQUAL FURNITURE FEED. BOX SHALL INCLUDE POWER AND DATA. NUMBER OF DATA CABLES INDICATED BY # ADJACENT TO SYMBOL. PROVIDE 1-1/4" C. TO LOCATION ABOVE ACCESSIBLE CEILING FOR DATA CABLING. PROVIDE CONDUIT/CONDUCTOR FOR POWER PER PANEL SCHEDULE. CONTRACTOR SHALL MAKE ALL TERMINATIONS TO SYSTEMS FURNITURE PROVIDED BY OTHERS.

LIGHTING

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

Symbol	Description
Aa	LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; FIXTURES WITH HALFSHADED REGION SHALL BE EMERGENCY PROVIDE BATTERY BACKUP OR CONNECT TO EMERGENCY CIRCUIT AS INDICATED; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES
X	EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.
OS	CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER
VS	CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION
P	PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES
S	SWITCH; SUBSCRIPT (WHEN USED): NONE - SINGLE POLE TOGGLE SWITCH 3 - THREE-WAY SWITCH D - LINEAR SLIDE DIMMER SWITCH 3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH O - WALL MOUNTED OCCUPANCY SENSOR 3O - THREE-WAY SWITCH WITH OCCUPANCY SENSOR V- VACANCY SENSOR VD - VACANCY SENSOR WITH DIMMER SWITCH a,b,c etc. - SWITCH ID

FIRE ALARM

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND CONDUIT AND CABLING PER THE MANUFACTURER'S SPECIFICATIONS)

Symbol	Description
FACP	FIRE ALARM CONTROL PANEL
F	FIRE ALARM SYSTEM PULL STATION
	FIRE ALARM SYSTEM STROBE
H	FIRE ALARM SYSTEM HORN/STROBE
S	FIRE ALARM SYSTEM SPEAKER/STROBE
	FIRE ALARM SYSTEM CEILING MOUNT STROBE
H	FIRE ALARM SYSTEM CEILING MOUNT HORN/STROBE
S	FIRE ALARM SYSTEM CEILING MOUNT SPEAKER/STROBE
C	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR
T	FIRE ALARM SYSTEM THERMAL DETECTOR
D	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
S	FIRE ALARM SYSTEM SMOKE DETECTOR
S^S	FIRE ALARM SYSTEM SMOKE ALARM
DH	FIRE ALARM SYSTEM MAGNETIC DOOR HOLD OPEN
F/S	FIRE ALARM SYSTEM FLOW SWITCH
T/S	FIRE ALARM SYSTEM TAMPER SWITCH

SECURITY (EQUIPMENT PROVIDED BY OWNER/OTHERS)

(EQUIPMENT PROVIDED BY OTHERS)

Symbol	Description
KP	JUNCTION BOX FOR KEYPAD; INSTALL 48" AFF AND PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
EP	OWNER FURNISHED, CONTRACTOR INSTALLED AND CONNECTED EMERGENCY PHONE "ETP-MTE ECO TOWER" SERIES; PROVIDE (2) 3/4" CONDUIT AND CABLING ROUTED FROM UNDERNEATH PEDESTAL TO THE NEAREST DATA RACK
DC	JUNCTION BOX FOR DOOR CONTACT (MAGNETIC LOCK); PROVIDE 3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
CR	JUNCTION BOX FOR CARD READER; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
ES	JUNCTION BOX FOR ELECTRIC STRIKE LOCK; ; PROVIDE 3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
•	JUNCTION BOX FOR DOOR OPERATOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING NEAR THE CONTROLLED DOOR
MD	JUNCTION BOX FOR MOTION DETECTOR; PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
	JUNCTION BOX FOR CEILING MOUNTED CAMERA; PROVIDE 1"C WITH (1) CAT 6 CABLE FROM THE JUNCTION BOX TO NEAREST TELECOM RACK WITH NVR
	JUNCTION BOX FOR WALL MOUNTED CAMERA; PROVIDE 1"C WITH (1) CAT 6 CABLE FROM THE JUNCTION BOX TO NEAREST TELECOM RACK WITH NVR

ELECTRICAL SHEET INDEX

E0.0	ELECTRICAL COVER SHEET
E0.1	ELECTRICAL SITE PLAN - DEMO
E1.0	ELECTRICAL SITE PLAN - NEW
E1.1	ELECTRICAL POWER PLAN - 1ST FLOOR
E1.2	ELECTRICAL POWER PLAN - 2ND&3RD FLOOR
E1.3	ELECTRICAL POWER PLAN - 4TH&5TH FLOOR
E5.0	ONE-LINE/RISER DIAGRAM - ELECTRICAL
E6.0	ELECTRICAL PANEL SCHEDULES
E7.0	ELECTRICAL DETAILS

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.
2. THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH, INSTALL, & CONNECT". EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED.
3. ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
4. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVIEWED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
5. BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, ETC.
6. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDING OF EQUIPMENT, DISCONNECT SWITCHES, PANELBOARDS, FOUNDATIONAL STEEL, BLDG STEEL, METAL PIPING, AND TELECOMMUNICATION RACKS, ETC. REGARDLESS OF DEPICTION ON PLAN.
8. CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC-FLASH STUDIES.
9. MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL.
10. THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.
11. DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.
12. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.
13. NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
14. OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
15. COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
16. COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID.
17. WARNING TAPE SHALL BE INSTALLED 6" INCHES BELOW GRADE OVER ALL CONDUITS INCLUDING BUT NOT LIMITED TO FEEDERS, DATA, AND BRANCH CIRCUITS. TAPE SHALL BE PERMANENT AND DISPLAY MESSAGE DESCRIBING THE TYPE OF SERVICE BURIED BENEATH IT.
18. ALL CONDUIT SIZES SHOWN ARE MINIMUM SIZES WHICH SHALL BE UTILIZED. CONTRACTOR SHALL VERIFY THAT ALL WIRING AND CABLES UTILIZED MEET NEC FILL REQUIREMENTS PRIOR TO INSTALLATION OF CONDUIT. ANY CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING.
19. CONTRACTOR SHALL COORDINATE ALL CONDUIT WALL AND FLOOR PENETRATIONS WITH ALL TRADES AS REQUIRED. ALL PENETRATIONS SHALL BE SEALED WATERTIGHT.
20. CONTRACTOR SHALL MATCH NEMA RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT PLUGS.
21. CONTRACTOR SHALL PROVIDE HOUSEKEEPING PAD UNDER ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT PROVIDED IN THIS PROJECT.
22. PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
23. ALL 120V, 20 AMP BRANCH CIRCUITS OVER 75' SHALL BE A MINIMUM OF #10.
24. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRAL. NO NEUTRAL SHARING SHALL BE PERMISSIBLE FOR 120V & 277V CIRCUITS.
25. FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS (36") CONDUIT BENDS.
26. ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.
27. PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
28. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS.
29. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R MINIMUM.
30. PROVIDE GFCI RECEPTACLES:
    A. ALL EXTERIOR LOCATIONS
    B. ALL COMMERCIAL KITCHENS
    C. LAUNDRY AREAS
    D. WITHIN 6' OF A SINK
    E. FOR VENDING MACHINES
31. FOR UNDERGROUND CONDUIT RUNS, PROVIDE (1) PULL BOX FOR EVERY 500-FEET OF CONDUIT LENGTH AND FOR EVERY 360° OF CONDUIT BENDS, UNLESS OTHERWISE INDICATED MORE FREQUENTLY. FOR PULL BOXES LOCATED WITHIN DRIVABLE SURFACES, ENSURE THAT THE PULL BOX IS TRAFFIC RATED. IN THE EVENT THAT A PULL BOX IS REQUIRED ON A UTILITY CONDUIT RUN, ENSURE THAT THE PULL BOX MEETS ALL REQUIREMENTS OF THAT UTILITY.

LIGHTING GENERAL NOTES

1. VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
3. VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE.
4. EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING.
5. WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO ROUGH-IN.
6. MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED.
7. VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE.
8. ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0'-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF THE MIRROR UNLESS OTHERWISE NOTED.
9. VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL PHOTOELECTRIC CELLS MUST FACE NORTH.
10. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.
11. COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE SPACE.
12. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.
13. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES. SWITCHES SHALL BE INSTALLED ON STRIKE SIDE OF DOOR UNLESS OBSTRUCTED BY GLAZING OR GRAPHICS.
14. LIGHT SWITCHES SHALL BE GANGED UNDER A SINGLE PLATE WHERE GROUPED TOGETHER
15. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGN LOCATION TO ENSURE THE SIGN IS VISIBLE THROUGHOUT CORRIDOR SEGMENT. ADJUSTMENTS GREATER THAN 10' FROM LOCATION SHOWN ON PLAN SHALL BE REVIEWED BY ENGINEER PRIOR TO ROUGH-IN.
16. CONTRACTOR SHALL ENSURE THAT DOOR SWINGS ARE NOT GOING TO BE IMPEDED BY THE INSTALLATION OF A LIGHT FIXTURE, FIRE ALARM DEVICE, SENSOR, EXIT SIGN, ETC.
17. ALL SITE LIGHTING FIXTURES SHALL INCLUDE A POLE FOUNDATION; REFER TO POLE FOUNDATION DETAIL FOR SPECIFIC REQUIREMENTS.

SPECIAL SYSTEMS GENERAL NOTES

1. VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR.
2. INTERCONNECT THE HOOD EXHAUST AND SUPPLY FANS WITH HOOD EXTINGUISHING SYSTEM SUCH THAT WHEN HOOD EXTINGUISHING SYSTEM IS ACTIVATED, THE EQUIPMENT BELOW THE HOOD AND HOOD SUPPLY FAN ARE DE-ENERGIZED AND THE HOOD EXHAUST FAN WILL START IF NOT RUNNING.
3. INTERCONNECT THE HOOD EXTINGUISHING SYSTEM WITH THE FIRE ALARM SYSTEM IF APPLICABLE.
4. PROVIDE AN ADDITIONAL 10%, OR ONE (1), WHICHEVER IS GREATER, OF THE FOLLOWING DEVICES WHICH ARE INCLUDED IN THE PROJECT, AND INSTALL THEM AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR AHJ DURING THE COURSE OF THE PROJECT. PROVIDE ALL REQUIRED CONDUIT, INTERCONNECTIONS, CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER: INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, THERMAL DETECTORS, ETC.), NOTIFICATION APPLIANCES (STROBES, HORN STROBES, SPEAKER STROBES, SPEAKERS, DUCT DETECTORS, ETC.), AND MONITORING MODULES.
5. VERIFY REQUIRED QUANTITY OF DUCT DETECTORS WITH DUCTWORK CONFIGURATION AS IT IS ACTUALLY INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

TELECOMMUNICATIONS GENERAL NOTES

1. PROVIDE 1" CONDUIT AND TWO (2) CAT 6 CABLES AT EACH DATA OUTLET SHOWN. CABLING SHALL ROUTE TO TELEPHONE BACKBOARD IN IT ROOM. ALL TERMINATIONS SHALL BE BY CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE THE DATA RACK, ALL ITEMS INCLUDED IN THE DATA RACK, AND ANY NECESSARY TELEPHONE EQUIPMENT.
3. PLYWOOD FOR BACKBOARDS SHALL BE 0'-1" AC INDOOR GRADE, FIRE RETARDANT, AND PAINTED AS SPECIFIED.
4. COMMON BOND RACKS, PATCH PANELS, CABLE SHIELDS, PROTECTORS, AND THE BUILDING MAIN ELECTRICAL GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AWG INSULATED AND STRANDED COPPER. FASTENERS SHALL BE RECESSED AND ANCHORED.
5. THE CONTRACTOR IS CAUTIONED TO INSURE NO PAINT PRODUCTS COME IN CONTACT WITH ANY SPECIAL SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, CABLES, COAX, CONDUCTORS, AND JACKS DURING CONSTRUCTION. IF ANY PAINT PRODUCT IS PLACED ON ANY COMPONENT, THE COMPONENT SHALL BE REPLACED FROM ITS POINT OF ORIGIN TO THE POINT OF TERMINATION.
6. CONTRACTOR SHALL COORDINATE JACKET COLORS WITH OWNER'S IT REPRESENTATIVE PRIOR TO PURCHASE. IN THE EVENT THAT THE OWNER DOES NOT HAVE A STANDARD FOR COLORS JACKETS SHALL BE AS FOLLOWS.
    - DATA: BLUE
    - VOICE: WHITE
    - WAP: YELLOW
    - CAMERA: GREEN

IDENTIFICATION OF EQUIPMENT GENERAL NOTES

1. ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: PUNCHED OR DRILLED FOR SCREW MOUNTING. WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. LETTERING AND BACKGROUND COLORS AS INDICATED BELOW:
    A. POWER CIRCUITS:
        a. NORMAL: WHITE LETTERING ON BLACK BACKGROUND.
        b. EMERGENCY LEGALLY REQUIRED STANDBY OR ESSENTIAL ELECTRICAL SYSTEM PRIOR TO ATS: BLACK LETTERING ON YELLOW BACKGROUND.
        c. EMERGENCY OPTIONAL STANDBY: WHITE LETTERING ON PURPLE BACKGROUND.
        d. UPS: BLACK LETTERING ON ORANGE BACKGROUND.
    B. FIRE ALARM SYSTEM: BLACK LETTERING ON RED BACKGROUND.
2. LABELING INSTRUCTIONS
    A. INDOOR EQUIPMENT: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH- HIGH LETTERS ON 1-1/2-INCH- HIGH LABEL; WHERE 2 LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.
    B. OUTDOOR EQUIPMENT: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL.
    C. EQUIPMENT TO BE LABELED SHALL INCLUDE BUT NOT BE LIMITED TO:
        - PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES.
        - TRANSFORMERS.
        - EMERGENCY SYSTEM BOXES AND ENCLOSURES.
        - RECEPTACLES WITH PANEL AND CIRCUIT NUMBERS.
        - DISCONNECT SWITCHES.
        - ENCLOSED CIRCUIT BREAKERS.
        - POWER TRANSFER EQUIPMENT. (ATS/MTS)
        - FIRE-ALARM CONTROL PANEL AND ANNUNCIATORS
        - ALL JUNCTION BOXES. LABEL TO INCLUDE CIRCUIT NUMBERS (PANEL AND NUMBER).
        - ALL LIGHTING SWITCH PLATES SHALL HAVE CIRCUIT NUMBERS ON THE BACK OF THE PLATE. (PANEL AND NUMBER).

DEMOLITION GENERAL NOTES

1. THE LOCATIONS OF EXISTING CIRCUITS AND EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND WIRING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSE BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEMS.
2. THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.
3. ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF AS REQUIRED. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE.
4. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD, UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
5. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AS SPECIFIED.
6. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
7. CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL DEVICES/EQUIPMENT AND DATA WIRING NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
9. DISCONNECT AND REMOVE ABANDONED PANELBOARDS, DISTRIBUTION EQUIPMENT, LIGHTING, AND DEVICES. REMOVE ASSOCIATED CONDUIT TO NEAREST ABOVE CEILING JUNCTION BOX.
10. IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS THAT OF THE EXISTING AT NO COST TO THE OWNER.
11. EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE GIVEN BY RFI.
12. COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS.
13. WHERE EXISTING CIRCUITS ARE BEING REMOVED IN EXISTING PANELS, PROVIDE A NEW, NEATLY TYPED DIRECTORY WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED. ANY EXISTING BREAKERS THAT ARE NOT FEEDING DEVICES SHALL REMAIN AND BE LABELED AS A "SPARE."
14. IN AREAS WHERE CEILINGS ARE REMOVED AND ELECTRICAL/DATA SYSTEMS ARE EXPOSED, ALL EXISTING DATA CABLING SHALL BE REMOVED FROM OPEN EXPOSURE AND REINSTALLED WITHIN EMT CONDUIT UNTIL SUCH TIME AS THE WIRING IS CONCEALED WITHIN A CEILING OR WALL CAVITY. ALL TYPE MC CABLE WITHIN THESE AREAS SHALL BE REMOVED AND REPLACED WITH CONDUCTORS INSTALLED IN EMT CONDUIT.RE-ROUTING OF EXISTING TYPE MC CABLE IN LIEU OF REMOVAL AND REPLACEMENT WILL BE PERMITTED ONLY WHERE THE REVISED ROUTING IS FULLY CONCEALED WITHIN BUILDING CONSTRUCTION AND DOES NOT RESULT IN EXCESSIVE VOLTAGE DROP OR NONCOMPLIANCE WITH APPLICABLE CODES AND STANDARDS.
15. WHERE EXISTING WIRING IS ENCOUNTERED DURING CEILING DEMOLITION THAT IS SUPPORTED BY THE CEILING SYSTEM, ALL MC CABLE AND DATA CABLING SHALL BE RE-SUPPORTED FROM THE BUILDING STRUCTURE IN ACCORDANCE WITH NEC REQUIREMENTS. SUPPORT FROM CEILING GRID SYSTEMS SHALL NOT BE PERMITTED, REGARDLESS OF WHETHER A NEW CEILING SYSTEM IS INSTALLED.
16. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR DETERMINING THE FULL EXTENT OF WORK REQUIRED UNDER THESE CONDITIONS. WHERE EXISTING CONDITIONS ARE NOT FULLY VISIBLE OR ACCESSIBLE, THE CONTRACTOR SHALL INCLUDE ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR CONDITIONS THAT COULD REASONABLY BE ANTICIPATED.

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS

ABBREVIATIONS

A	AMPERE(S)
AC	ABOVE COUNTER (6" ABOVE BACKSPLASH)
AF	AMPERE(S) FUSED
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BG	BELOW GRADE
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CTRL	CONTROLLER
D	TO BE DEMOLISHED
DISC.	DISCONNECT
DIST.	DISTRIBUTION
DWG	DRAWING
E	EXISTING TO REMAIN
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMER.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIP.	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRICAL WATER HEATER
EXIST.	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FA ANNC	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FC	FOOTCANDLE
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERE(S)
FOC	FIBER OPTIC CABLE
G, GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HP	HORSEPOWER
KAIC	1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS
KWH	1,000 WATT HOURS
KVA	1,000 VOLT AMPERES
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCM/KCMIL	1,000 CIRCULAR MILS
MECH.	MECHANICAL
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NU	WEATHERPROOF IN-USE COVER
OH	OVERHEAD
OHE	OVERHEAD ELECTRICAL
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCPT	RECEPTACLE
REQ'D	REQUIRED
SF	SUPPLY FAN
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
STD	STANDARD
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUND BUS
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS
TTB	TELECOM TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP.	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY, INC.
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

keyplan

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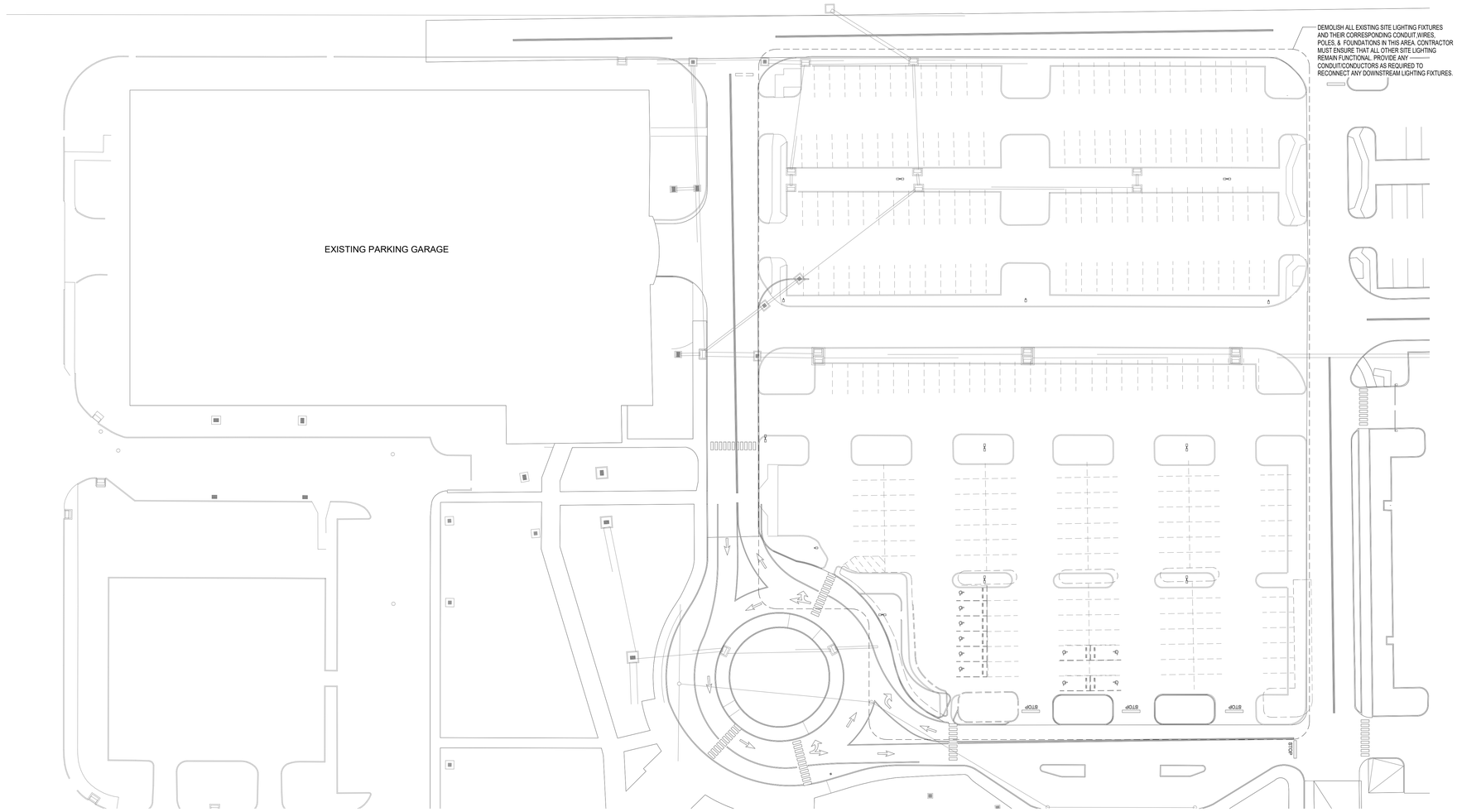
ELECTRICAL COVER SHEET

E0.0



1 | **ELECTRICAL SITE PLAN - DEMO**
1" = 30'-0"

keyplan

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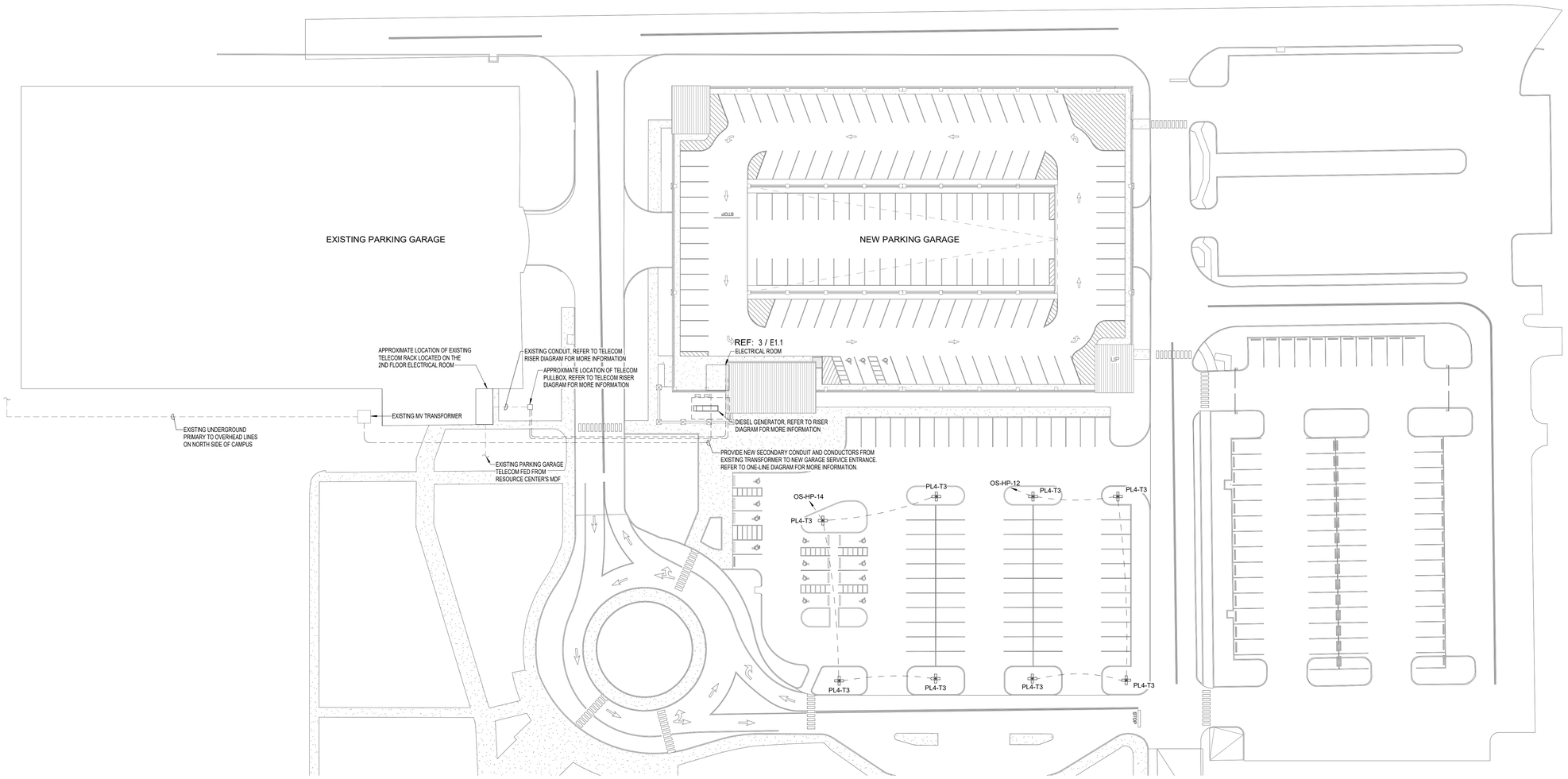
ELECTRICAL SITE PLAN - DEMO

E0.1

ELECTRICAL KEYED NOTES:
1. SITE LIGHTING FIXTURES SHALL BE MOUNTED ON POLES THAT EXTEND UP TO 26' TO MATCH EXISTING SITE LIGHTING POLES.



1 ELECTRICAL SITE PLAN
1" = 30'-0"

keyplan

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ELECTRICAL SITE PLAN - NEW

E1.0

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LIGHTING FIXTURE SCHEDULE

NOTES:
** FINISH TO BE SELECTED BY ARCHITECT | FIXTURE COUNT IS PROVIDED FOR REFERENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QTY.

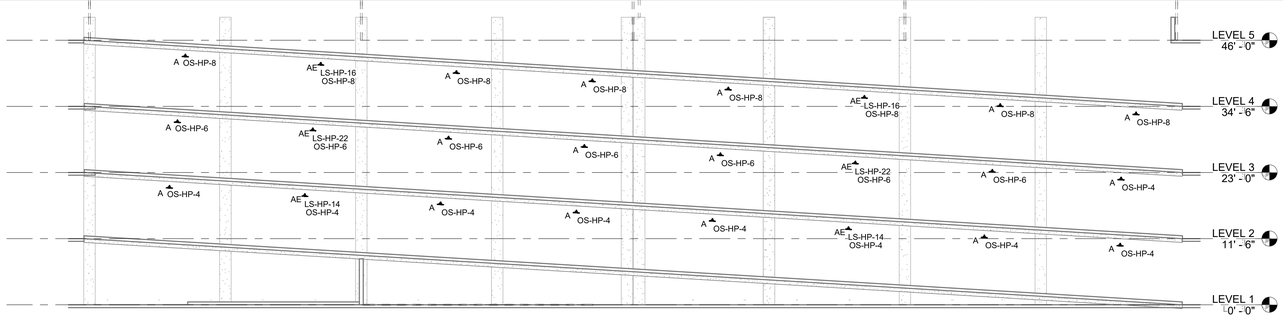
MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING	APPROVED FIXTURES				COUNT
								MANUFACTURER	CATALOG NO.	OPTION 2		
										MANUFACTURER	CATALOG NO.	
A	19" DIAMETER LED ROUND GARAGE LIGHT	LED	UNV	57 VA	4,000	7,200	PENDANT	OPTEC LED LIGHTING	OLPG1-057-UNVL-40/80-5W-PD12-WH	ALS	CPX-63-SC-T4-WH-HD	200
AE	19" DIAMETER LED ROUND GARAGE LIGHT WITH UL924 DEVICE	LED	UNV	57 VA	4,000	7,200	PENDANT	OPTEC LED LIGHTING	OLPG1-057-UNVL-40/80-5W-PD12-WH	ALS	CPX-63-SC-T4-WH-HD	78
B	8" DIAMETER LED SEMI-CIRCLE WALL SCONCE	LED	UNV	20 VA	3,500	2,000	SURFACE	COOPER	674-31-WP-L3/830-UNV-ALP	VISA LIGHTING	OW1307-L30K(H)-MVOLT-**-**	38
C	LED AREA LIGHT WITH SLIPFITTER MOUNT TO ANGLE FIXTURE FOR UPLIGHTING.	LED	UNV	150 VA	4,000	25,500	SLIPFITTER	ASD LIGHTING	ASD-LSB5B-PRO-150BK | ASD-SF-SLB5	LITHONIA LIGHTING	EAX2-ALO-SWW2-S0-UVOLT-UPM-PER-DDB | EAX-UPM-DDB-M6	3
PL2-T3	PARKING LOT FIXTURE WITH TWO HEADS AT 180 DEGREES. POLE SHALL BE PROVIDED WITH FOUNDATION REFER TO DETAILS FOR MORE INFORMATION.	LED	UNV	300 VA	4,000	25,500/HEAD	SSS POLE	ASD LIGHTING	ASD-LSB5B-PRO-150**-ASD-09MW	LITHONIA LIGHTING	EAX2-ALO-SWW2-S0-UVOLT-UPM-PER-DDB	6
PL3-T3	PARKING LOT FIXTURE WITH THREE HEADS. POLE SHALL BE PROVIDED WITH FOUNDATION REFER TO DETAILS FOR MORE INFORMATION.	LED	UNV	450 VA	4,000	25,500/HEAD	SSS POLE	ASD LIGHTING	ASD-LSB5B-PRO-150**-ASD-09MW	LITHONIA LIGHTING	EAX2-ALO-SWW2-S0-UVOLT-UPM-PER-DDB	4
PL4-T3	PARKING LOT FIXTURE WITH 4 HEADS. POLE SHALL BE PROVIDED WITH FOUNDATION REFER TO DETAILS FOR MORE INFORMATION.	LED	UNV	600 VA	4,000	25,500/HEAD	SSS POLE	ASD LIGHTING	ASD-LSB5B-PRO-150**-ASD-09MW	LITHONIA LIGHTING	EAX2-ALO-SWW2-S0-UVOLT-UPM-PER-DDB	8
S4	4' LED STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	30 VA	4,000	6,000	SUSPENDED	COOPER	4SLSTPSLC-UNV-BSL6	COOPER	4SLSTPSLC-UNV	2
S4E	4' LED STRIP LIGHT WITH SEMI-FROSTED LENS AND UL924 DEVICE. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	30 VA	4,000	6,000	SUSPENDED	COOPER	4SLSTPSLC-UNV-BSL6	LITHONIA LIGHTING	CSS-L48-6000LM-MVOLT-MIN10-ZT-40K-80CRI-GTD-**	3
S8	8' LED STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	50 VA	4,000	12,000	SUSPENDED	COOPER	8SLSTPSLC-UNV	LITHONIA LIGHTING	CSS-L96-12000LM-MVOLT-MIN10-ZT-40K-80CRI-GTD-**	2
S8E	8' LED STRIP LIGHT WITH SEMI-FROSTED LENS AND UL924 DEVICE. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	50 VA	4,000	12,000	SUSPENDED	COOPER	8SLSTPSLC-UNV	LITHONIA LIGHTING	CSS-L96-12000LM-MVOLT-MIN10-ZT-40K-80CRI-GTD-**	2
V4	4' LED VAPORTIGHT LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED	UNV	30 VA	4,000	4,600	SUSPENDED	METALUX	4APVTLD-SL3C3	LITHONIA LIGHTING	CSVT-L48-5000LM-LPPFL-MD-GZ10-40K-80CRI	2
W	ARCHITECTURAL LED WALL PACK WITH INTEGRAL MOTION AND PHOTOCELL FOR MOUNTING HEIGHTS BETWEEN 8'-15'.	LED	UNV	50 VA	4,000	6,000	WALL	LUMARK	AXCL6A-**- WPS4XX	LITHONIA LIGHTING	WST-P3-40K-MVOLT -NLAIR2 PIR	2
WE	ARCHITECTURAL LED WALL PACK WITH INTEGRAL EMERGENCY BATTERY BACKUP AND INTEGRAL MOTION SENSOR AND PHOTOCELL FOR 8-15- MOUNTING HEIGHTS.	LED	UNV	50 VA	4,000	6,000	WALL	LUMARK	AXCL6A-**- WPS4XX-CBP	LITHONIA LIGHTING	WST-P3-40K-MVOLT -NLAIR2 PIR E7WC	1
X	EXIT SIGN WITH RED LETTERS. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED. FIXTURE SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP AND SELF-DIAGONSTICS.	LED	UNV	1 VA	N/A	N/A	CEILING/WALL	SURE LITES	LPXW6XRWH	SURE LITES	WLTE-W-2-**	20

ELECTRICAL GENERAL NOTES

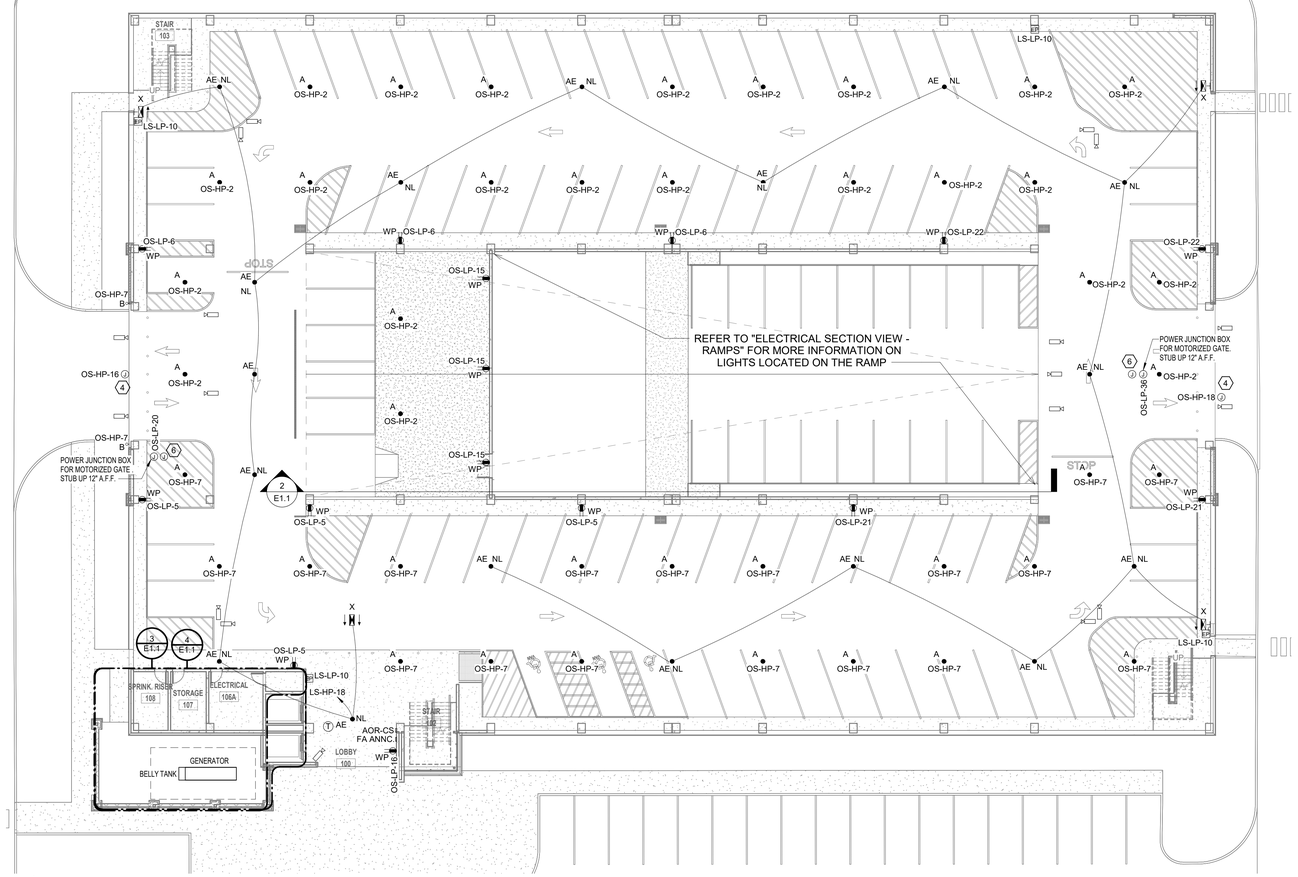
1. ROUTE ALL SECURITY CABLING BACK TO NEAR SECURITY PANEL.

ELECTRICAL KEYED NOTES

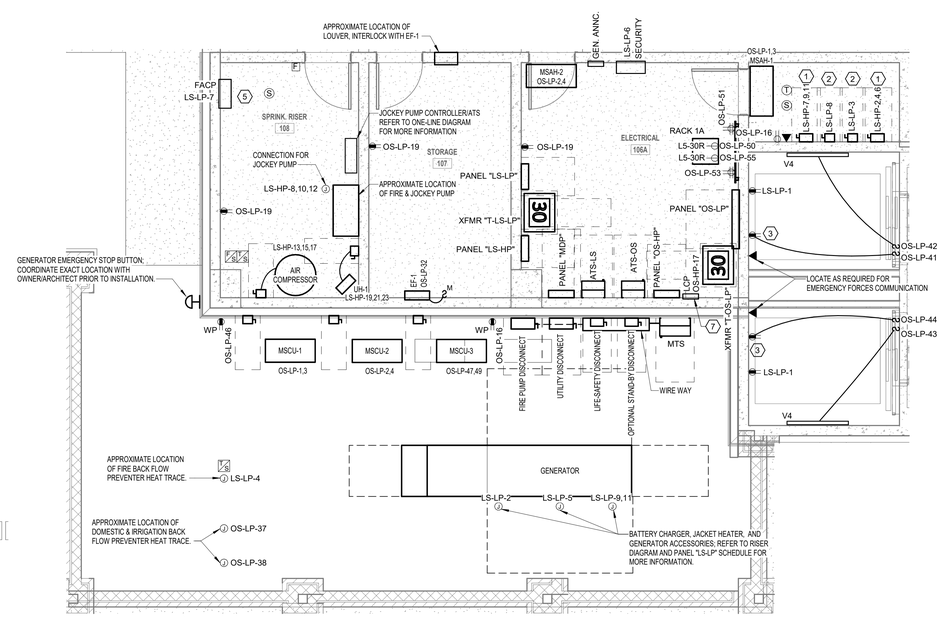
1. 60A/3P/N1 BUSSMAN ELEVATOR POWER MODULE. PROVIDE 480V 3Ø 40A CIRCUIT TO 60A/3P/N1 BUSSMAN ELEVATOR POWER MODULE. POWER MODULE SHALL INCLUDE SHUNT TRIP, CONTROL TRANSFORMER, TEST KEY, PILOT LIGHT, NEUTRAL LUG, AUXILIARY CONTACTS, AND FIRE ALARM MONITORING-RELAY. CONTRACTOR SHALL INTERCONNECT POWER MODULE TO ELEVATOR CONTROLLER, AND FIRE ALARM SYSTEM AS REQUIRED.
2. 30A/1P/NF/N1 LOCKABLE DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING
3. LOCATE AS REQUIRED FOR SUMP PUMP
4. APPROXIMATE LOCATION OF BUILDING SIGNAGE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5. CONNECT TO THE ADJACENT PARKING GARAGE FIRE ALARM CONTROL PANEL. PROVIDE SIEMENS EQUIPMENT NO OTHERS SHALL BE ACCEPTED.
6. PROVIDE (2) 1" CONDUIT STUB UP 12" A.F.F. FROM DATA RACK LOCATED IN "ELECTRICAL 106" TO TELECOM JUNCTION BOX FOR MOTORIZED GATE
7. BACNET CAPABLE LCP TO BE INTERCONNECTED TO BMCS. ALL PARKING LOT LIGHTING (WITH THE EXCEPTION OF NIGHT LIGHTS) SHALL BE CONTROLLED VIA TIMECLOCK AND LOW VOLTAGE PHOTOCELL.



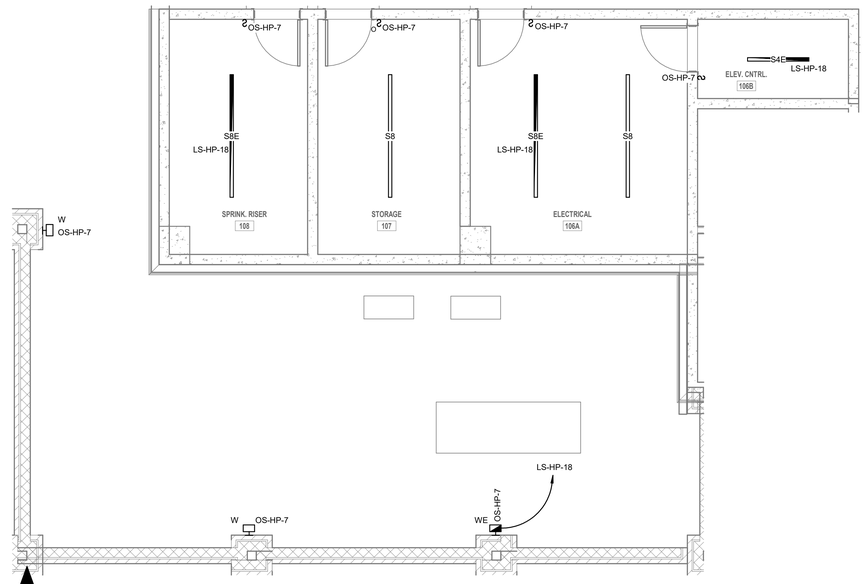
2 ELECTRICAL SECTION VIEW - RAMPS
3/32" = 1'-0"



1 ELECTRICAL POWER & LIGHTING PLAN - LEVEL 1
1/16" = 1'-0"



3 ELECTRICAL POWER PLAN - LEVEL 1 - ENLARGED VIEW - BOH
1/4" = 1'-0"



4 ELECTRICAL POWER PLAN - LEVEL 1 - ENLARGED LIGHTING VIEW - BOH
1/4" = 1'-0"

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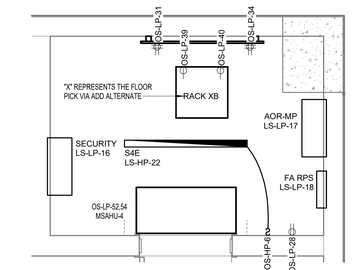
ELECTRICAL POWER PLAN - 1ST FLOOR

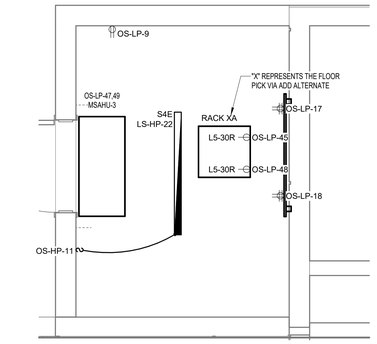
E1.1

1 ELECTRICAL POWER PLAN - LEVEL 2
1/16" = 1'-0"

2 ELECTRICAL POWER PLAN - LEVEL 3
1/16" = 1'-0"



3 ELECTRICAL POWER PLAN - LEVEL 3 - ENLARGED VIEW - NORTH DATA ROOM
1/2" = 1'-0"



4 ELECTRICAL POWER PLAN - LEVEL 3 - ENLARGED VIEW - SOUTH DATA ROOM
1/2" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. ALL STAIR LIGHTING FIXTURES SHALL BE NIGHT LIGHT.

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ELECTRICAL POWER PLAN - 2ND&3RD FLOOR

E1.2

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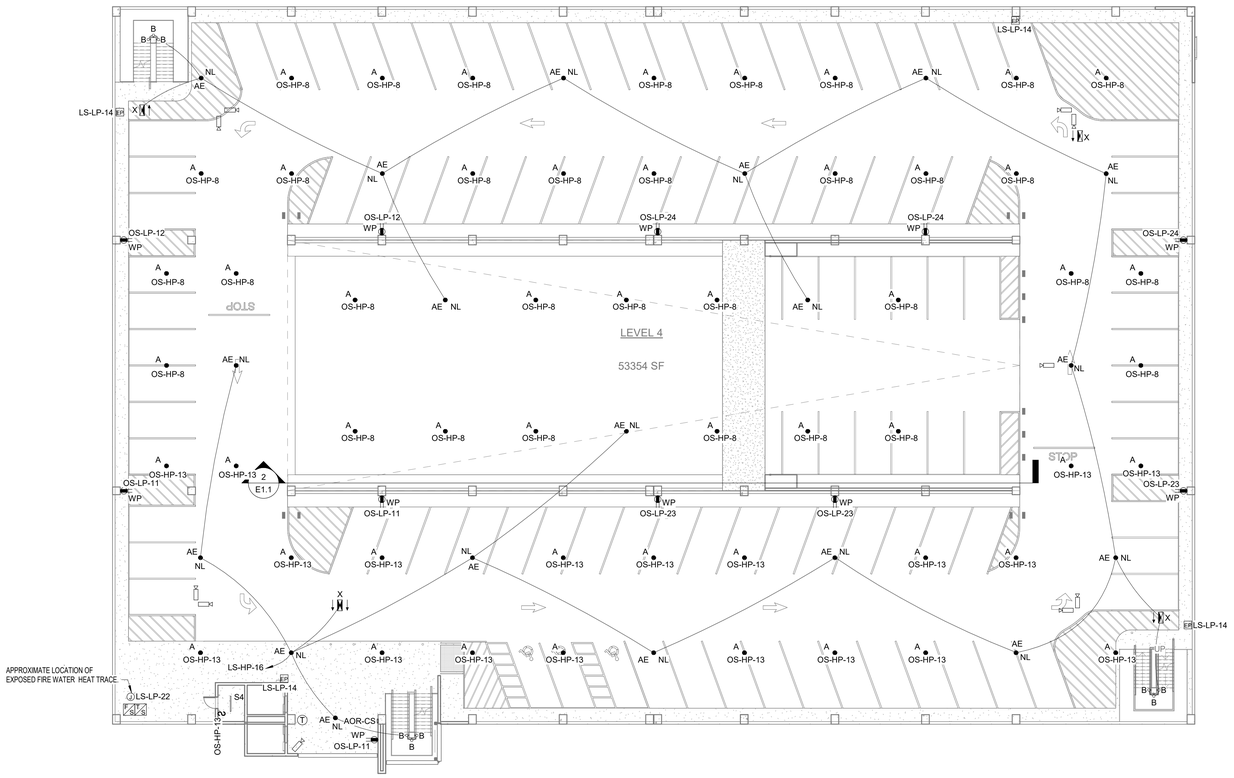
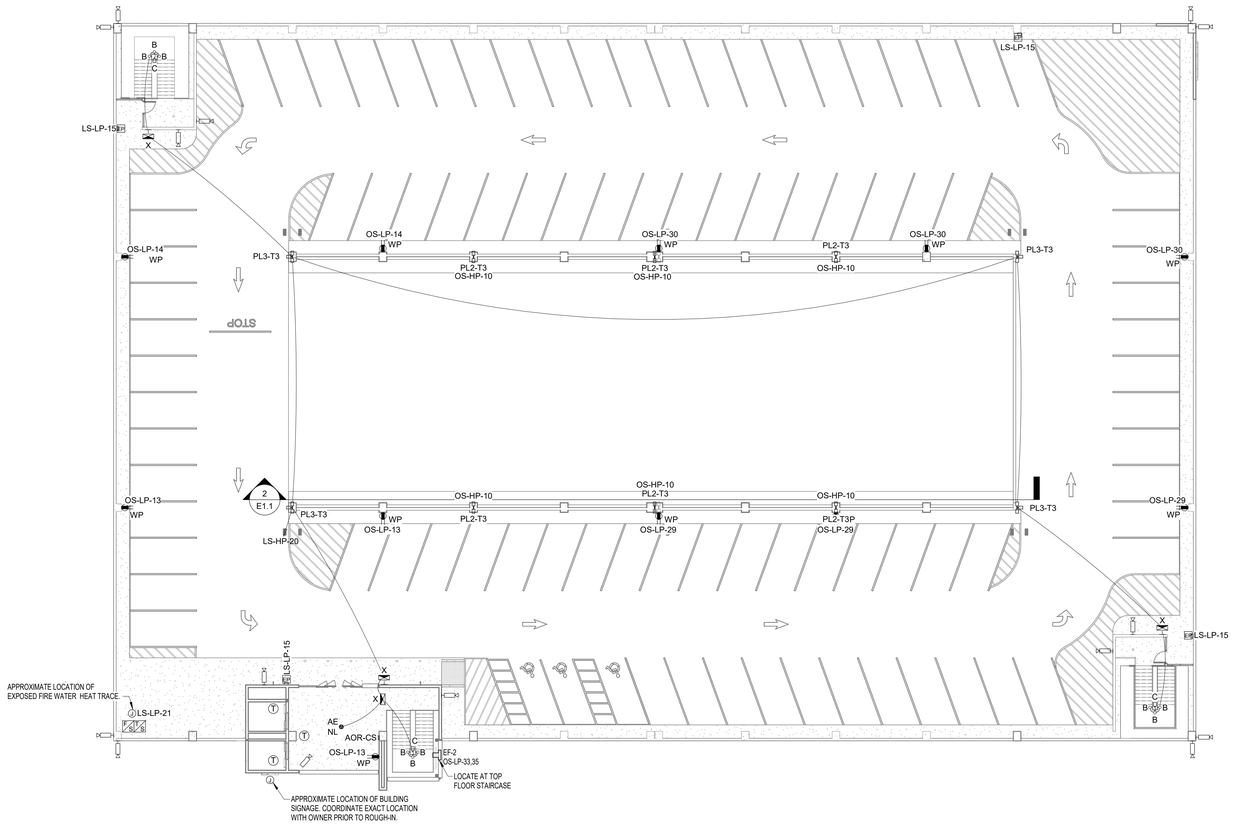
ELECTRICAL GENERAL NOTES:

1. SITE LIGHTING FIXTURES SHALL BE MOUNTED ON 3'-6" CONCRETE WALL AND/ ON A POLE THAT EXTEND UP TO 23' TO MATCH EXISTING GARAGE LIGHTING POLES.
2. ROUTE ALL SECURITY CABLING BACK TO ROOM "ELECTRICAL 106"
3. ALL STAIR LIGHTING FIXTURES SHALL BE NIGHT LIGHT.
4. PROVIDE AN OBSTRUCTION LIGHT (FL810LNV-R-AC-S-PM OR APPROVED EQUAL) ON EACH AREA LIGHT FIXTURE.



1 ELECTRICAL POWER PLAN - LEVEL 4 (ALTERNATE#1)
1/16" = 1'-0"



2 ELECTRICAL POWER PLAN - LEVEL 5 (ALTERNATE#2)
1/16" = 1'-0"

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ELECTRICAL POWER PLAN - 4TH&5TH FLOOR

E1.3

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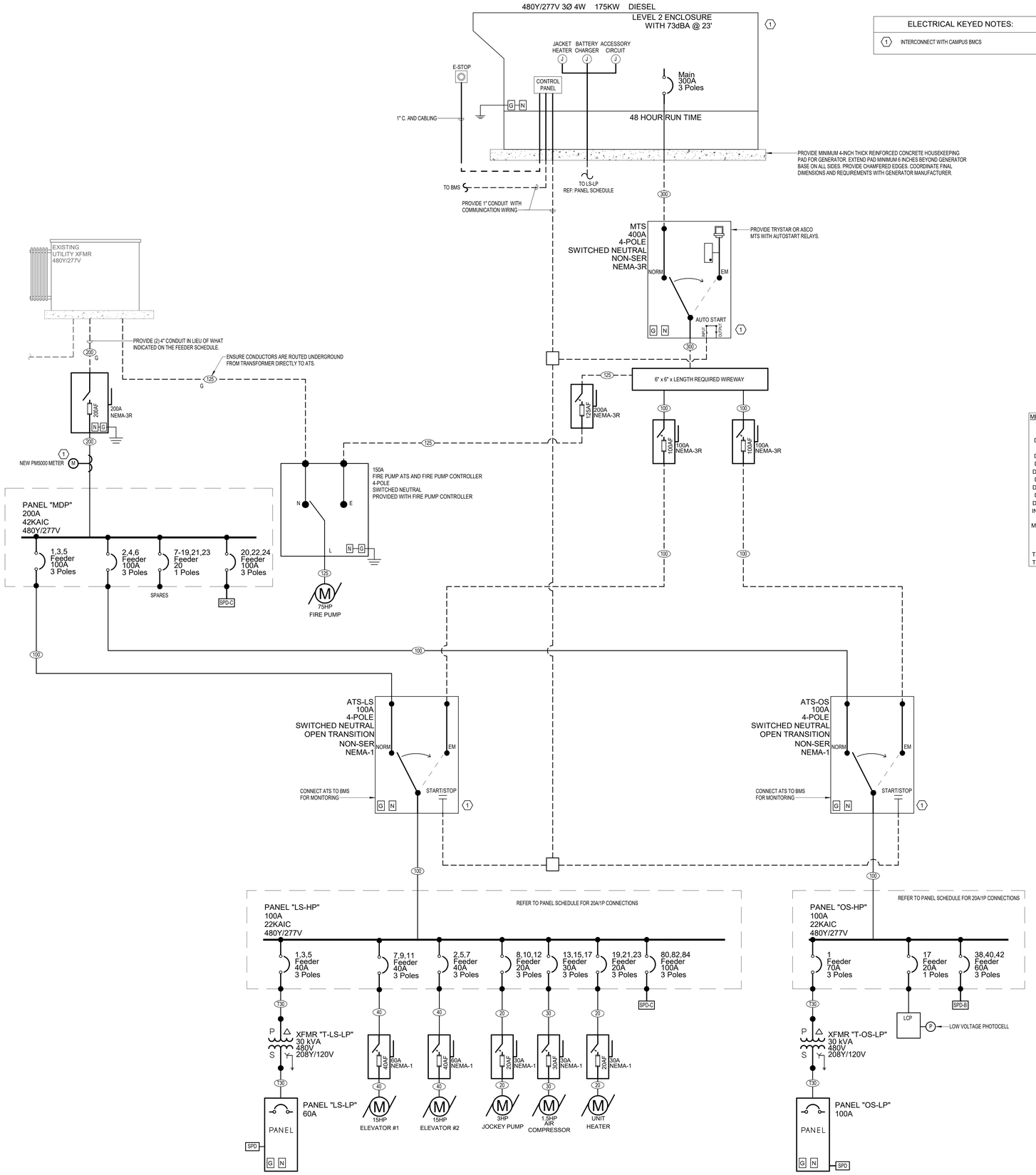

ELECTRICAL KEYED NOTES:

1. INTERCONNECT WITH CAMPUS BMCS

DRY TYPE TRANSFORMER SCHEDULE
480V DELTA - 208 WYE

MARK	KVA	PRIMARY AMPS	SECONDARY AMPS	480 VOLT OVERCURRENT PROTECTION (SEE NOTE #3)	208 VOLT OVERCURRENT PROTECTION (SEE NOTE #1 & #3)	480V FEEDER	208V FEEDER	GROUNDING ELECTRODE CONDUCTOR (SEE NOTE #2)
T9	9	11	25	20A/3P	30A/3P	3#12, 1#12 GND & 3/4" C.	4#10, 1#6 GND & 1" C.	1#8
T15	15	18	42	40A/3P	50A/3P	3#8, 1#10 GND & 3/4" C.	4#8, 1#8 GND & 1" C.	1#8
T30	30	36	83	70A/3P	100A/3P	3#4, 1#8 GND & 1" C.	4#3, 1#6 GND & 1-1/4" C.	1#6

NOTES:
1. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN (10) FEET OF THE TRANSFORMER SECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER) OR A INDIVIDUALLY MOUNTED CIRCUIT BREAKER
2. TRANSFORMER BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR (COPPER OR ALUMINUM CONDUCTORS), BOND THE NEUTRAL OF THE TRANSFORMER SECONDARY TO THE TRANSFORMER CASE, WITH BONDING JUMPER. GROUND THE CASE OF THE TRANSFORMER WITH THE GROUNDING ELECTRODE CONDUCTOR TO THE NEAREST AVAILABLE EFFECTIVELY GROUNDED STRUCTURAL METAL MEMBER OF THE STRUCTURE, OR THE NEAREST AVAILABLE EFFECTIVELY GROUNDED METAL WATER PIPE OR OTHER ELECTRODES AS SPECIFIED IN NEC ARTICLE 250 WHERE THE PRECEDING ELECTRODES ARE NOT AVAILABLE.
3. IN THE EVENT THAT THE OVERCURRENT DEVICE INDICATED IN THE PANEL SCHEDULE DIFFERS FROM THE SIZE INDICATED IN THE TABLE CONTRACTOR SHALL CONTACT ENGINEER FOR CLARIFICATION.

SURGE PROTECTIVE DEVICE SCHEDULE

DESIGNATION	MODEL OR EQUAL	SURGE RATING (PER MODE)	VOLTAGE	MODES OF PROTECTION	AUDIBLE ALARM	TRANSIENT COUNTER	MODBUS & INTERNET CONNECTIVITY	INTEGRAL DISCONNECT	CIRCUIT BREAKER	FEEDER
SPD "C"	ABB #CG-2004803YPNM2F	200kA	277/480V, 3Ø,4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	100A-3P	5#2 IN 1-1/4" C
SPD "B"	ABB #CG-1004803YPNM2F	100kA	277/480V, 3Ø,4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	60A-3P	5#6 IN 1" C
SPD "A"	ABB #CG-0502083YPNM2F	50kA	120/208V, 3Ø,4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	60A-3P	5#6 IN 1" C

MECHANICAL CONNECTION SCHEDULE

1. WHERE THE BREAKER RATING OF EQUIPMENT SERVED IS GREATER THAN THE DISCONNECT RATING ILLUSTRATED IN THE SCHEDULE. CONTRACTOR SHALL UPSIZE ACCORDINGLY TO PROVIDE PROPER PROTECTION TO THE EQUIPMENT SERVED.

MARK	CIRCUIT	REMARKS
AIR COMPRESSOR	LS-HP-13,15,17	DS-30
EF-1	OS-LP-32	TS-SPST
EF-2	OS-LP-33,35	DS-30R
MSAH-1	OS-LP-1,3	MINI-AHU
MSAH-2	OS-LP-2,4	MINI-AHU
MSAHU-3	OS-LP-47,49	MINI-AHU
MSAHU-4	OS-LP-52,54	MINI-AHU
MSCU-1	OS-LP-1,3	DS-30R
MSCU-2	OS-LP-2,4	DS-30R
MSCU-3	OS-LP-47,49	DS-30R
MSCU-4	OS-LP-52,54	DS-30R
UH-1	LS-HP-19,21,23	DS-30

MECHANICAL EQUIPMENT SCHEDULE REMARKS KEY:

DS-30	PROVIDE 30A/FUSED DISCONNECT.
DS-30R	PROVIDE 30A/FUSED/N3R DISCONNECT.
DS-60	PROVIDE 60A/FUSED DISCONNECT.
DS-60R	PROVIDE 60A/FUSED/N3R DISCONNECT.
DS-100	PROVIDE 100A/FUSED DISCONNECT.
DS-100R	PROVIDE 100A/FUSED/N3R DISCONNECT.
DS-200	PROVIDE 200A/FUSED DISCONNECT.
DS-200R	PROVIDE 200A/FUSED/N3R DISCONNECT.
DS-400	PROVIDE 400A/FUSED DISCONNECT.
DS-400R	PROVIDE 400A/FUSED/N3R DISCONNECT.
IN SIGHT	EQUIPMENT IS WITHIN SIGHT OF PANELBOARD PER NEC 110.29. PANELBOARD BREAKER SHALL ACT AS MEANS OF DISCONNECT.
MINI-AHU	PROVIDE 1" C. AND CONDUCTORS TO ASSOCIATED OUTDOOR UNIT PER MANUFACTUER INSTRUCTIONS FOR POWER AND CONTROL. PROVIDE DPST HEAVY DUTY TOGGLE SWITCH FOR LOCAL MEANS OF DISCONNECT.
PC-30	PROVIDE 30A PLUG AND CORD KIT.
TS-DPST	PROVIDE DOUBLE POLE SINGLE THROW (DPST) 30A HEAVY DUTY MOTOR RATED TOGGLE SWITCH.
TS-SPST	PROVIDE SINGLE POLE SINGLE THROW (SPST) 30A HEAVY DUTY MOTOR RATED TOGGLE SWITCH.

4-WIRE FEEDER SCHEDULE - COPPER

STD. FUSE OR BKR TRIP SIZE	# OF SETS	THHN/THWN-2/XHHW CONDUCTORS	CONDUIT SIZE (MINIMUM)	GROUNDING ELECTRODE CONDUCTOR (REFER TO SUBSCRIPT GEC)
20	1	4#12, 1#12 GND	3/4"	#8
30	1	4#10, 1#10 GND	3/4"	#8
40	1	4#8, 1#10 GND	3/4"	#8
50	1	4#8, 1#10 GND	3/4"	#8
60	1	4#6, 1#10 GND	1"	#8
90 100	1	4#3, 1#8 GND	1-1/4"	#8
125	1	4#1, 1#6 GND	1-1/2"	#6
200	1	4#3/0, 1#6 GND	2"	#4
300	1	4#350 KCMIL, 1#3 GND	3"	#2

NOTES:
1. ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER DIAGRAM.
2. ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
3. REFER TO THE 2020 EDITION OF THE NEC FOR CONDUIT TYPES REQUIRED PER THEIR TABLES.
4. GROUND SIZES INDICATED IN SCHEDULE ARE PER NEC 250.122. REFER TO NEC 250.66 FOR GROUND SIZE AT SEPARATELY DERIVED SYSTEMS.

SUBSCRIPTS:
"VD" - INDICATES UPSIZED FOR VOLTAGE DROP (XXX VD)
"N" - INDICATES NO NEUTRAL REQUIRED (XXX N)
"G" - INDICATES NO GROUND REQUIRED (XXX G)
"GEC" - INDICATES GROUND WIRE SHALL BE PER NEC 250.66. REFER TO GROUNDING ELECTRODE CONDUCTOR GEC COLUMN FOR SIZING INFORMATION. (XXX GEC)

1 ONE-LINE DIAGRAM
NONE

WHLC ARCHITECTURE

STATE OF LOUISIANA
SAMUEL DAVID BURNS
License No. 46484
PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE
Hammond, Louisiana

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ONE-LINE/RISER DIAGRAM - ELECTRICAL

E5.0

THOMPSON LUKE & ASSOCIATES, L.L.C.
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(225)293-9474 | www.tlaeng.com | office@tlaeng.com
TLA PROJECT # 26-115
Frank Saville Thompson - License No. 28854
Landon David Burns - License No. 46484

Branch Panel: MDP

Location: ELECTRICAL 106A
Supply From:
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000
Mains Rating: 200 A
MCB Rating: 200 A

Panel Schedule Notes:
1L - REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION.
PROVIDE DOOR-IN-DOOR BRANCH PANEL.

ABR	CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT	ABR
	1	100 A	3	1L	1L	1L	PANEL "OS-HP"	18.4 kVA	24.4 kVA					PANEL "LS-HP"	1L	1L	1L	3	100 A	2	
--	3	--	--	--	--	--	--			13.7 kVA	24.7 kVA			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					13.4 kVA	20.3 kVA	--	--	--	--	--	--	6	--
--	7	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	8	--
--	9	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	10	--
--	11	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	12	--
--	13	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	14	--
--	15	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	16	--
--	17	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	18	--
--	19	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPD-C	--	--	--	3	100 A	20	--
--	21	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			--	--	--	--	--	--	22	--
--	23	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	--	--	--	--	--	--	24	--
								42744 VA		38351 VA		33701 VA									
								157 A		141 A		122 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Elevator	34920 VA	95.00%	33174 VA	
Other	34868 VA	100.00%	34868 VA	**Total Conn. Load:** 114787 VA
Receptacle	17460 VA	78.64%	13730 VA	**Total Est. Demand:** 115540 VA
Lighting	25105 VA	125.00%	31382 VA	**Total Conn.:** 138 A
Miscellaneous	2720 VA	100.00%	2720 VA	**Total Est. Demand:** 139 A

Load Summary Notes:

Branch Panel: LS-LP

Location: ELECTRICAL 106A
Supply From: T-LS-LP
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Rating: 60 A
MCB Rating: 60 A

Panel Schedule Notes:
PROVIDE DOOR-IN-DOOR BRANCH PANEL.

ABR	CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT	ABR
	1	20 A	1	2#12	#12	3/4"	ELEV PIT RECEPT	0.4 kVA	0.5 kVA					GEN. ACCESSORY	3/4"	#12	2#12	1	20 A	2	
	3	20 A	1	2#12	#12	3/4"	ELEV CAB LGT			0.1 kVA	1.5 kVA			HEAT TRACE	3/4"	#12	2#12	1	20 A	4	
	5	20 A	1	2#12	#12	3/4"	GEN. BATTERY					0.5 kVA	0.5 kVA	SECURITY	3/4"	#12	2#12	1	20 A	6	
	7	20 A	1	2#12	#12	3/4"	FACP	0.5 kVA	0.1 kVA					ELEV CAB LGT	3/4"	#12	2#12	1	20 A	8	
	9	20 A	2	3#12	#12	3/4"	GEN. JACKET HEATER			0.8 kVA	2.0 kVA			1ST FLR EM PHONE	3/4"	#12	2#12	1	20 A	10	
--	11	--	--	--	--	--	--					0.8 kVA	2.0 kVA	2ND FLR EM PHONE	3/4"	#12	2#12	1	20 A	12	
	13	20 A	1	2#10	#10	3/4"	3RD FLR EM PHONE	2.0 kVA	2.0 kVA					4TH FLR EM PHONE	3/4"	#10	2#10	1	20 A	14	
	15	20 A	1	2#10	#10	3/4"	5TH FLR EM PHONE			2.0 kVA	0.5 kVA			SECURITY	3/4"	#10	2#10	1	20 A	16	
	17	20 A	1	2#10	#10	3/4"	AOR - MAIN PANEL					0.5 kVA	0.7 kVA	FA REMOTE POWER	3/4"	#10	2#10	1	20 A	18	
	19	20 A	1	2#12	#12	3/4"	2ND FLR FIRE HEAT TRACE	0.5 kVA	0.5 kVA					3RD FLR FIRE HEAT TRACE	3/4"	#12	2#12	1	20 A	20	
	21	20 A	1	2#10	#10	3/4"	5TH FLR FIRE HEAT TRACE			0.5 kVA	0.5 kVA			4TH FLR FIRE HEAT TRACE	3/4"	#10	2#10	1	20 A	22	
--	23	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	24	--
--	25	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	26	--
--	27	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	28	--
--	29	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	30	--
--	31	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	32	--
--	33	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	34	--
--	35	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	36	--
--	37	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPD-C	--	--	--	3	100 A	38	--
--	39	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			--	--	--	--	--	--	40	--
--	41	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	--	--	--	--	--	--	42	--
								6410 VA		7800 VA		4970 VA									
								55 A		67 A		41 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	16100 VA	100.00%	16100 VA	
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:** 19180 VA
Miscellaneous	2720 VA	100.00%	2720 VA	**Total Est. Demand:** 19180 VA
				Total Conn.: 53 A
				Total Est. Demand: 53 A

Load Summary Notes:

Branch Panel: OS-LP

Location: ELECTRICAL 106A
Supply From: T-OS-LP
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: 2

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Rating: 100 A
MCB Rating: 100 A

Panel Schedule Notes:
PROVIDE DOOR-IN-DOOR BRANCH PANEL.

ABR	CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT	ABR
	1	20 A	2	3#12	#12	3/4"	MSCU/MSAHU-1	0.5 kVA	0.5 kVA					MSCU/MSAHU-2	3/4"	#12	3#12	2	20 A	2	
--	3	--	--	--	--	--	--			0.5 kVA	0.5 kVA			--	--	--	--	--	--	4	--
	5	20 A	1	2#12	#12	3/4"	1ST FLR RECEPT					0.7 kVA	0.5 kVA	1ST FLR RECEPT	3/4"	#12	2#12	1	20 A	6	
	7	20 A	1	2#10	#10	3/4"	2ND FLR RECEPT	0.7 kVA	0.4 kVA					2ND FLR RECEPT	3/4"	#10	2#10	1	20 A	8	
	9	20 A	1	2#10	#10	3/4"	3RD FLR RECEPT			0.7 kVA	0.4 kVA			3RD FLR RECEPT	3/4"	#10	2#10	1	20 A	10	
	11	20 A	1	2#10	#10	3/4"	4TH FLR RECEPT					0.5 kVA	0.4 kVA	4TH FLR RECEPT	3/4"	#10	2#10	1	20 A	12	
	13	20 A	1	2#10	#10	3/4"	5TH FLR RECEPT	0.5 kVA	0.4 kVA					5TH FLR RECEPT	3/4"	#10	2#10	1	20 A	14	
	15	20 A	1	2#12	#12	3/4"	1ST FLR RECEPT			0.5 kVA	0.5 kVA			1ST FLR RECEPT	3/4"	#12	2#12	1	20 A	16	
	17	20 A	1	2#12	#12	3/4"	TTB QUAD					0.4 kVA	0.4 kVA	TTB QUAD	3/4"	#12	2#12	1	20 A	18	
	19	20 A	1	2#12	#12	3/4"	1ST FLR BOH RECEPT	0.7 kVA	0.5 kVA					MOTORIZED GATE	3/4"	#12	2#12	1	20 A	20	
	21	20 A	1	2#12	#12	3/4"	1ST FLR RECEPT			0.4 kVA	0.4 kVA			1ST FLR RECEPT	3/4"	#12	2#12	1	20 A	22	
	23	20 A	1	2#10	#10	3/4"	4TH FLR RECEPT					0.5 kVA	0.5 kVA	4TH FLR RECEPT	3/4"	#10	2#10	1	20 A	24	
	25	20 A	1	2#10	#10	3/4"	2ND FLR RECEPT	0.5 kVA	0.5 kVA					2ND FLR RECEPT	3/4"	#10	2#10	1	20 A	26	
	27	20 A	1	2#10	#10	3/4"	3RD FLR RECEPT			0.5 kVA	0.7 kVA			3RD FLR RECEPT	3/4"	#10	2#10	1	20 A	28	
	29	20 A	1	2#10	#10	3/4"	5TH FLR RECEPT					0.5 kVA	0.5 kVA	5TH FLR RECEPT	3/4"	#10	2#10	1	20 A	30	
	31	20 A	1	2#10	#10	3/4"	TTB QUAD	0.4 kVA	0.6 kVA					EF-1	3/4"	#12	2#12	1	20 A	32	
	33	20 A	2	3#10	#10	3/4"	EF-2			0.3 kVA	0.4 kVA			TTB QUAD	3/4"	#10	2#10	1	20 A	34	
--	35	--	--	--	--	--	--					0.3 kVA	0.5 kVA	MOTORIZED GATE	3/4"	#12	2#12	1	20 A	36	
	37	20 A	1	2#12	#12	3/4"	HEAT TRACE	1.5 kVA	1.5 kVA					HEAT TRACE	3/4"	#12	2#12	1	20 A	38	
	39	30 A	1	2#10	#10	3/4"	LOCKABLE TTB RECEPT			0.4 kVA	0.4 kVA			LOCKABLE TTB RECEPT	3/4"	#10	2#10	1	30 A	40	
	41	20 A	1	2#12	#12	3/4"	ELEV SUMP PUMP					0.2 kVA	0.0 kVA	ELEV PIT LGT	3/4"	#12	2#12	1	20 A	42	
	43	20 A	1	2#12	#12	3/4"	ELEV PIT LGT	0.0 kVA	0.2 kVA					ELEV SUMP PUMP	3/4"	#12	2#12	1	20 A	44	
	45	30 A	1	2#10	#10	3/4"	LOCKABLE TTB RECEPT			0.4 kVA	0.2 kVA			IRRIGATION CONTROL	3/4"	#12	2#12	1	20 A	46	
	47	20 A	2	3#12	#12	3/4"	MSCU/MSAHU-3					0.5 kVA	0.4 kVA	LOCKABLE TTB RECEPT	3/4"	#10	2#10	1	30 A	48	
--	49	--	--	--	--	--	--	0.5 kVA	0.4 kVA					LOCKABLE TTB RECEPT	3/4"	#10	2#10	1	20 A	50	
	51	20 A	1	2#12	#12	3/4"	TTB QUAD			0.4 kVA	0.5 kVA			MSCU/MSAHU-4	3/4"	#10	3#10	2	20 A	52	
	53	20 A	1	2#12	#12	3/4"	TTB QUAD					0.4 kVA	0.5 kVA	--	--	--	--	--	--	54	--
	55	30 A	1	2#10	#10	3/4"	LOCKABLE TTB RECEPT	0.4 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	56	--
--	57	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	58	--
--	59	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	60	--
--	61	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	62	--
--	63	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	64	--
--	65	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	66	--
--	67	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	68	--
--	69	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	70	--
--	71	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	72	--
--	73	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	74	--
--	75	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	76	--
--	77	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	78	--
--	79	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPD-A	--	--	--	3	60 A	80	--
--	81	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			--	--	--	--	--	--	82	--
--	83	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	--	--	--	--	--	--	84	--
								10670 VA		7950 VA		7760 VA									
								89 A		66 A		65 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	9280 VA	100.00%	9280 VA	
Receptacle	17100 VA	79.24%	13550 VA	**Total Conn. Load:** 26380 VA
Lighting	60 VA	125.00%	75 VA	**Total Est. Demand:** 22830 VA
				Total Conn.: 73 A
				Total Est. Demand: 63 A

Load Summary Notes:

Branch Panel: LS-HP

Location: ELECTRICAL 106A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Rating: 100 A
MLO Rating: 100 A

Panel Schedule Notes:
PROVIDE DOOR-IN-DOOR BRANCH PANEL.

ABR	CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT	ABR
	1	70 A	3	1L	1L	1L	XFMR "T-LS-HP"	6.4 kVA	5.8 kVA					ELEV #2	3/4"	#10	4#8	3	40 A	2	
--	3	--	--	--	--	--	--			7.8 kVA	5.8 kVA			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					5.0 kVA	5.8 kVA	--	--	--	--	--	--	6	--
	7	40 A	3	4#8	#10	3/4"	ELEV #1	5.8 kVA	0.2 kVA					JOCKEY PUMP	3/4"	#12	4#12	3	20 A	8	
--	9	--	--	--	--	--	--			5.8 kVA	0.2 kVA			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					5.8 kVA	0.2 kVA	--	--	--	--	--	--	12	--
	13	30 A	3	4#10	#10	3/4"	AIR COMPRESSOR	0.8 kVA	1.4 kVA					2ND FLR EM LGT	3/4"	#10	2#10	1	20 A	14	
--	15	--	--	--	--	--	--			0.8 kVA	1.3 kVA			4TH FLR EM LGT	3/4"	#10	2#10	1	20 A	16	
--	17	--	--	--	--	--	--					0.8 kVA	1.0 kVA	1ST FLR EM LGT	3/4"	#12	2#12	1	20 A	18	
	19	20 A	3	4#12	#12	3/4"	UH-1	1.7 kVA	2.5 kVA					TOP LEVEL LGT	3/4"	#10	2#10	1	20 A	20	
--	21	--	--	--	--	--	--			1.7 kVA	1.3 kVA			3RD FLR EM LGT	3/4"	#10	2#10	1	20 A	22	
--	23	--	--	--	--	--	--					1.7 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	24	--
--	25	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	26	--
--	27	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	28	--
--	29	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	30	--
--	31	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	32	--
--	33	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	34	--
--	35	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	36	--
--	37	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPD-B	--	--	--	3	60 A	38	--
--	39	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			--	--	--	--	--	--	40	--
--	41	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	--	--	--	--	--	--	42	--
								24379 VA		24693 VA		20296 VA									
								90 A		91 A		73 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Elevator	34920 VA	95.00%	33174 VA	
Other	24088 VA	100.00%	24088 VA	**Total Conn. Load:** 69358 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:** 69432 VA
Lighting	7354 VA	125.00%	9192 VA	**Total Conn.:** 83 A
Miscellaneous	2720 VA	100.00%	2720 VA	**Total Est. Demand:** 84 A

Load Summary Notes:

Branch Panel: OS-HP

Location: ELECTRICAL 106A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Rating: 100 A
MLO Rating: 100 A

Panel Schedule Notes:
PROVIDE DOOR-IN-DOOR BRANCH PANEL.

ABR	CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT	ABR
	1	70 A	3	1L	1L	1L	XFMR "T-OS-LP"	10.7 kVA	1.3 kVA					1ST FLR LGT	3/4"	#12	2#12	1	20 A	2	
	3									8.0 kVA	2.0 kVA			2ND FLR LGT	3/4"	#10	2#10	1	20 A	4	
--	5	--	--	--	--	--	--					7.8 kVA	1.9 kVA	3RD FLR LGT	3/4"	#10	2#10	1	20 A	6	
	7	20 A	1	2#12	#12	3/4"	1ST FLR LGT	1.2 kVA	1.9 kVA					4TH FLR LGT	3/4"	#10	2#10	1	20 A	8	
	9	20 A	1	2#10	#10	3/4"	2ND FLR LGT			1.1 kVA	1.8 kVA			TOP LEVEL LGT	3/4"	#10	2#10	1	20 A	10	
	11	20 A	1	2#10	#10	3/4"	3RD FLR LGT					1.1 kVA	2.4 kVA	SITE LGT	3/4"	#10	2#10	1	20 A	12	
	13	20 A	1	2#10	#10	3/4"	4TH FLR LGT	1.1 kVA	2.4 kVA					SITE LGT	3/4"	#10	2#10	1	20 A	14	
	15	20 A	1	2#12	#12	3/4"	BUILDING SIGNAGE			0.5 kVA	0.5 kVA			BUILDING SIGNAGE	3/4"	#12	2#12	1	20 A	16	
	17	20 A	1	2#12	#12	3/4"	LCP					0.0 kVA	0.5 kVA	BUILDING SIGNAGE	3/4"	#12	2#12	1	20 A	18	
--	19	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	20	--
--	21	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	22	--
--	23	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	24	--
--	25	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	26	--
--	27	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	28	--
--	29	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	30	--
--	31	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	32	--
--	33	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPARE	--	--	--	1	20 A	34	--
--	35	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	36	--
--	37	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA					SPD-B	--	--	--	3	60 A	38	--
--	39	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			--	--	--	--	--	--	40	--
--	41	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA	--	--	--	--	--	--	42	--
								18368 VA		13672 VA		13427 VA									
								66 A		49 A		48 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	10780 VA	100.00%	10780 VA	
Receptacle	17100 VA	79.24%	13550 VA	**Total Conn. Load:** 45466 VA
Lighting	17752 VA	125.00%	22190 VA	**Total Est. Demand:** 46342 VA
Miscellaneous	0 VA	0.00%	0 VA	**Total Conn.:** 55 A
				Total Est. Demand: 56 A

Load Summary Notes:

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PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING

North Oaks Health System

NORTH OAKS HEALTH PARKING GARAGE

Hammond, Louisiana

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ELECTRICAL PANEL SCHEDULES

E6.0

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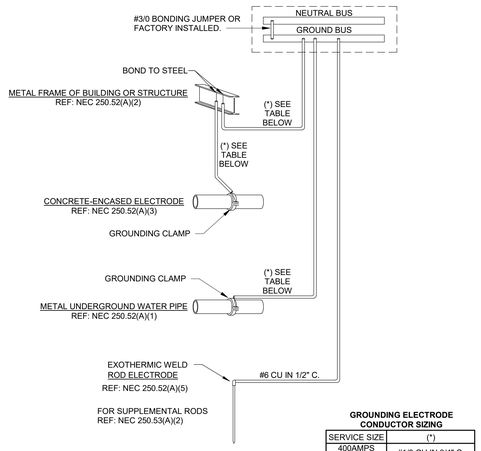
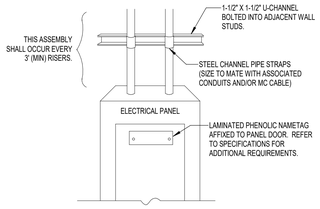


GROUNDING ELECTRODE CONDUCTOR SIZING

SERVICE SIZE	(*)
400AMPS OR LESS	#1/0 CU IN 3/4" C.
600 OR 800AMPS	#2/0 CU IN 3/4" C.
1,000AMPS OR MORE	#3/0 CU IN 1" C.

1 DETAIL - BUILDING GROUNDING
N.T.S.



2 DETAIL - CONDUIT SUPPORT
N.T.S.

TYPICAL PANELBOARD PLAQUE

(INDICATE PANEL DESIGNATION)

__/__ VOLTS __ PHASE __ WIRE
__ AMPS MAIN __
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.

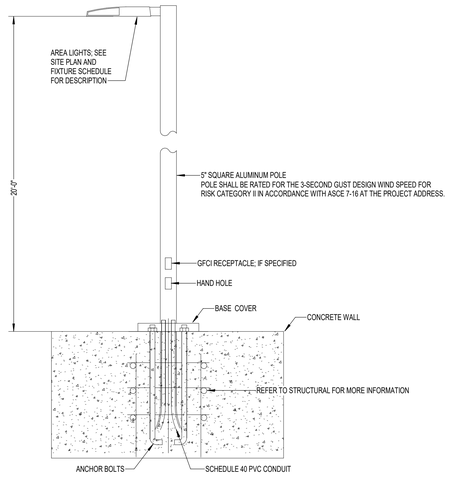
LABLING SHALL ADHERE TO NEC 408.4(B) SOURCE OF SUPPLY

TYPICAL DISCONNECT PLAQUE

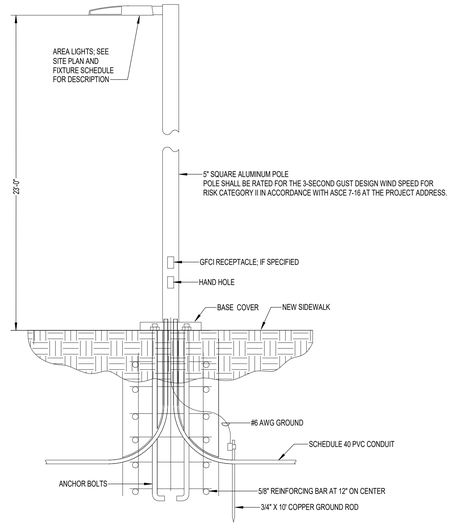
(INDICATE EQUIPMENT DESCRIPTION)

FUSED AT ___ AMPERES
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

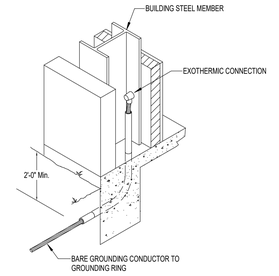
3 DETAIL - EQUIPMENT SIGNAGE
N.T.S.



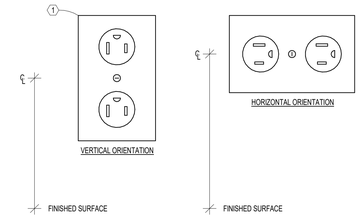
4 DETAIL - PARKING GARAGE POLE
N.T.S.



5 DETAIL - PARKING LOT POLE
N.T.S.



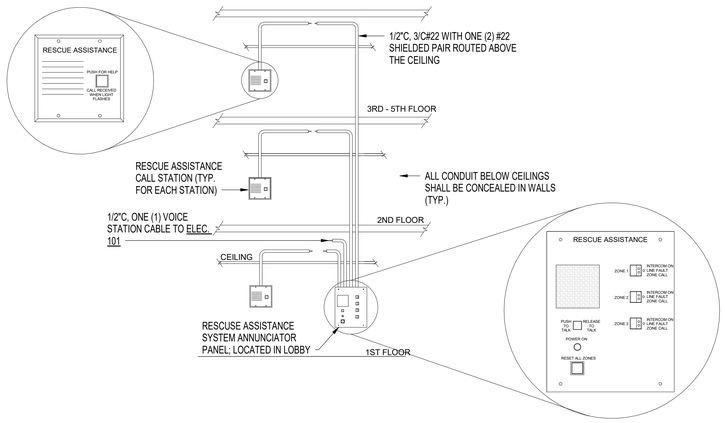
6 DETAIL - STEEL MEMBER GROUNDING
N.T.S.



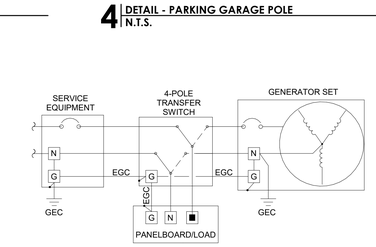
KEYNOTES

1. REFER TO SPECIFICATIONS FOR RECEPTACLE REQUIREMENTS.
2. UNLESS DENOTED OTHERWISE ON PLANS, MOUNTING HEIGHT IS FROM FINISHED SURFACE (FLOOR/GRADE/COUNTER TOP/ETC...) TO CENTERLINE OF DEVICE.

7 DETAIL - RECEPTACLE
N.T.S.

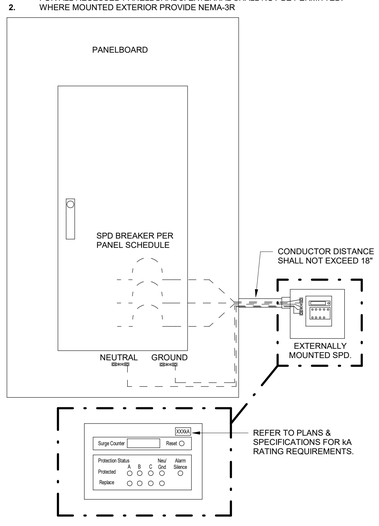


8 DETAIL - RESCUE ASSISTANCE SYSTEM
N.T.S.



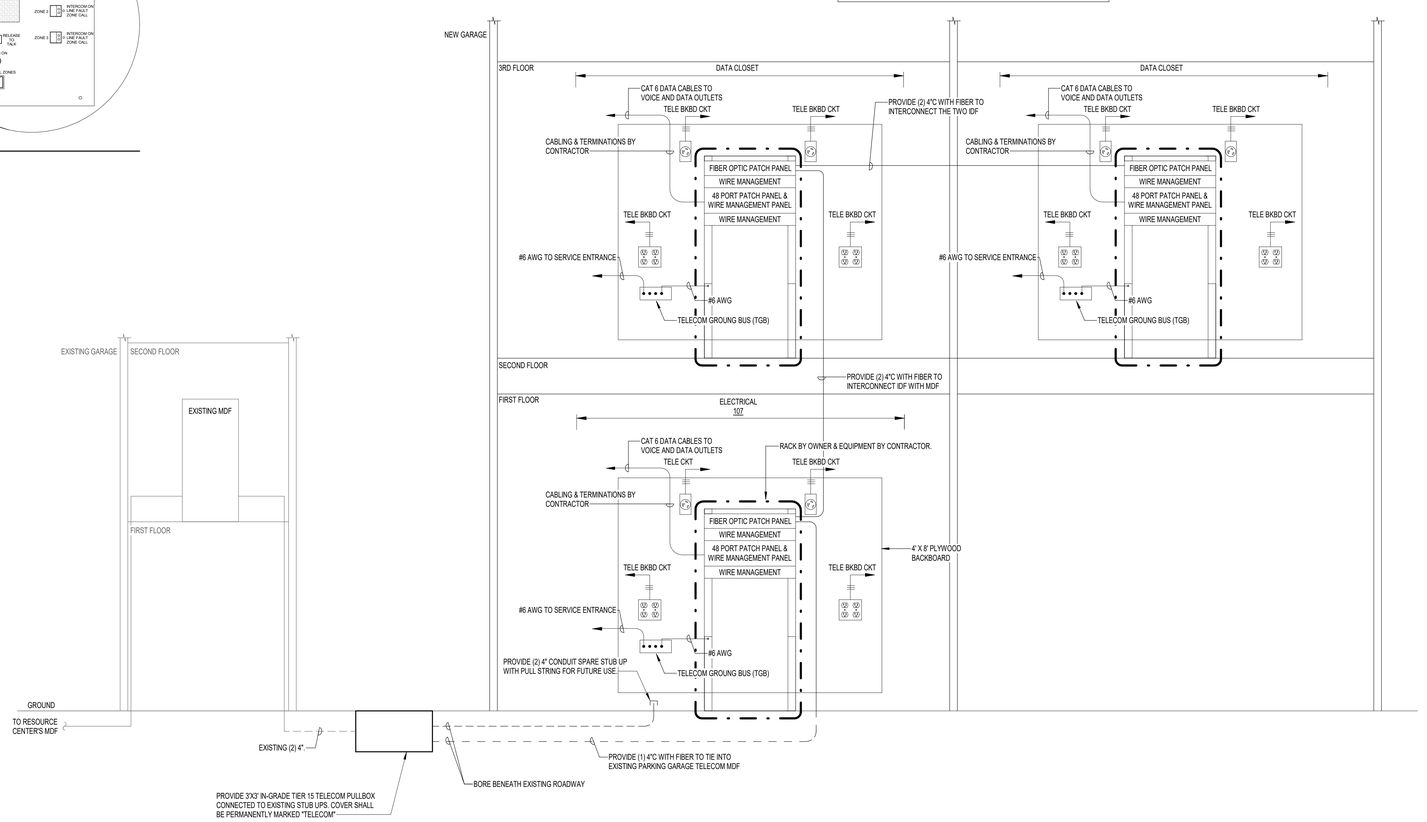
9 DETAIL - 4-POLE ATS GROUNDING
N.T.S.

DETAIL NOTES:
1. INTERNALLY MOUNTED SURGE PROTECTION DEVICES SHALL BE REQUIRED FOR ALL RECESSED PANELBOARDS. EXTERNAL SHALL NOT BE PERMITTED.
2. WHERE MOUNTED EXTERIOR PROVIDE NEMA-3R



10 DETAIL - SPD INSTALLATION
N.T.S.

NOTE: ALL CABLING SHALL BE HUBBELL PREMISE. NO OTHERS SHALL BE PERMISSIBLE.



11 DETAIL - TELEPHONE BACKBOARD
N.T.S.

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09-25-26

North Oaks Health System

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Hammond, Louisiana

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ELECTRICAL DETAILS

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