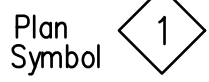


ABBREVIATIONS

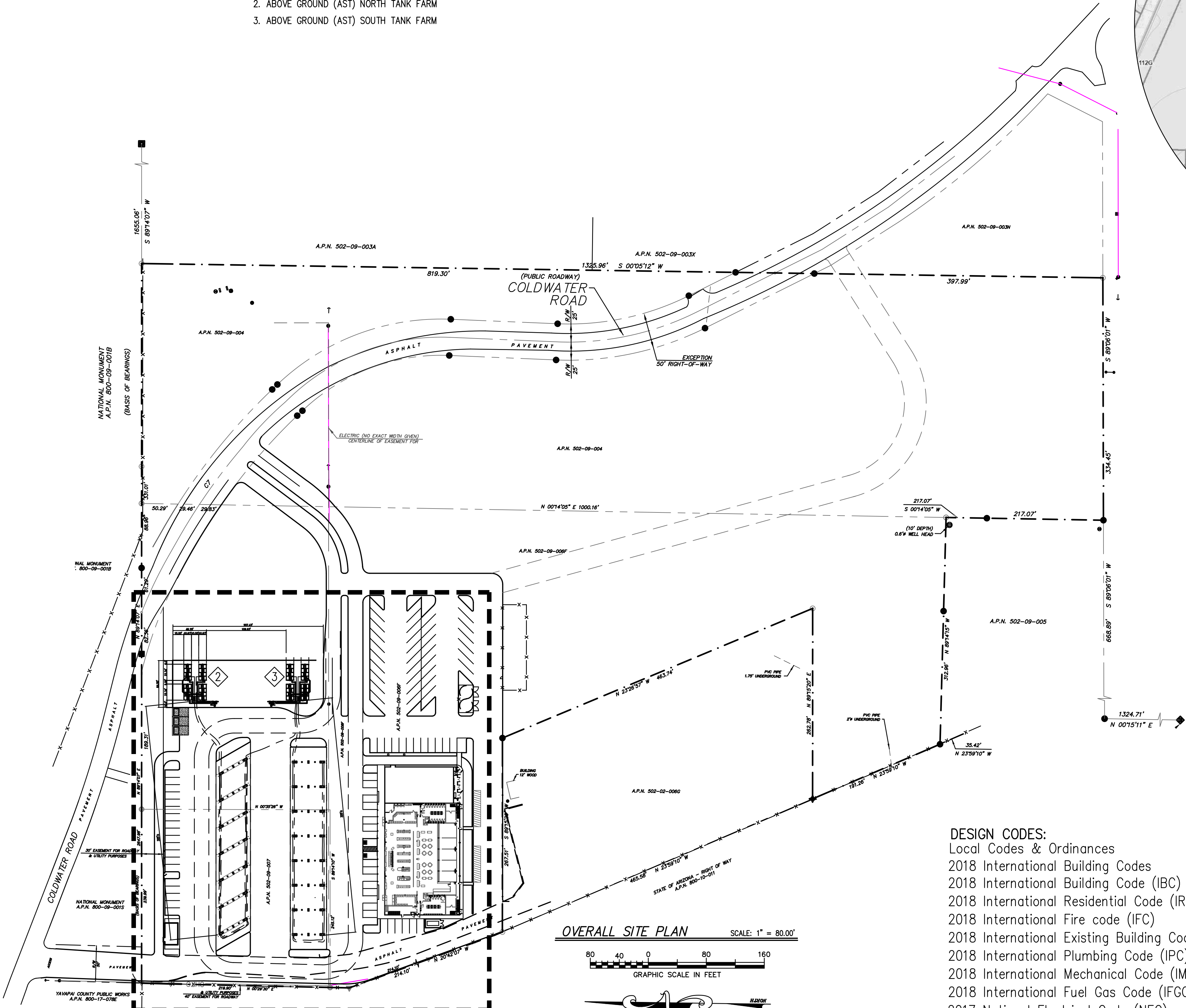
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COMPOUND
ABS	Acrylonitrile-butadiene-styrene
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AST	ABOVE GROUND STORAGE TANK
ALT	ALTERNATE
BLDG	BUILDING
BLK	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BOT	BOTTOM
BTWN	BETWEEN
BRD	BOARD
BRDR	BOARDER
BTU	BRITISH THERMAL UNIT
BWP	BRACED WALL PANEL
CALCS	CALCULATIONS
C.J.	CONTROL JOINT
CLG.	CEILING
C.G.	CORNER GUARD
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL	DOUBLE
DEV. LEN.	DEVELOPED LENGTH
D.H.W.	DOUBLE HUNG WINDOW
D.L.	DEAD LOAD
DR.	DOOR
DWL.	DRYWALL
DWC	DRAINAGE
DWL	DRYWALL
DWV	DRAINAGE WASTE VENT
EA	EACH
E.B.	EYEBROW
EF	EACH FACE
ELEC	ELECTRICAL
EL. ELEV.	ELEVATION
E.W.	EACH WAY
EXT.	EXTERIOR
F.E.	FINISH ELEVATION
F.F.E.	FINISH FLOOR ELEVATION
F.G.	FINISH GRADE
FIN.	FINISHED
F.N.	FIELD NAILING
FND.	FOUNDATION
F.O.	FACE OF
F.R.	FIRE RESISTANT
FRMG.	FRAMING
FS	FLOOR SINK
FTG	FOOTING
FRP	FIBERGLASS REINFORCED PANEL
GA.	GAUGE
GLB	GLUE LAMINATED BEAM
GALV.	GALVANIZED
GRD.	GRADE
GWB	GYPSON WALL BOARD
GYP. BD.	GYPSON BOARD
H.C.	HOLLOW CORE
HDR.	HEADER
HGT.	HEIGHT
HORIZ.	HORIZONTAL
HR.	HOUR
H.S.	HORIZONTAL SLIDER
HVAC	HEATING, VENTILATION AND AIR-CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IRC	INTERNATIONAL RESIDENTIAL CODE
INSUL.	INSULATION
K	THOUSAND
LAV.	LAVATORY
LDGR.	LEDGER
LIN.	LINEN
L.L.	LIVE LOAD
MAX	MAXIMUM
M.C.	MEDICINE CABINET
MFG.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLDG.	MOULDING
M.T.	METAL THRESHOLD
MTL.	METAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NPW	NON-POTABLE WATER
N.T.S.	NOT TO SCALE
O.H.D.	OVERHEAD
O.C. O/C	ON CENTER
(O.C.)	OWNER FURNISHED CONTRACTOR INSTALLED
(O.O.)	OWNER FURNISHED OWNER INSTALLED
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
P.B.	PARTICLE BOARD
PLT.	PLATE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
P.T.	PREASSURE TREATED
PR.	PAIR
QTY.	QUANTITY
R	RADIUS
REINF.	REINFORCEMENT
REQD.	REQUIRED
REV.	REVERSE(D)
RF.	ROOF
RO	ROUGH OPENING
R.P.B.P	REDUCED PRESSURE PRINCIPLE BACK-FLOW PREVENTION
R&S	ROD & SHELF
S.C.	SOLID CORE
S.D.	SMOKE DETECTOR
S.G.D.	SLIDING GLASS DOOR
SHLF.	SHELF
SIM.	SIMILAR
S.& S.	SHIRT & SKIRT
SH.& PL.	SHELF & POLE
STL.	STEEL
STND.	STANDARD
STO.	STORAGE
SUSP.	SUSPENDED
T/O	TOP OF
TYP.	TYPICAL
UST	UNDERGROUND STORAGE TANK
VNT	VENT THRU ROOF
W/	WITH

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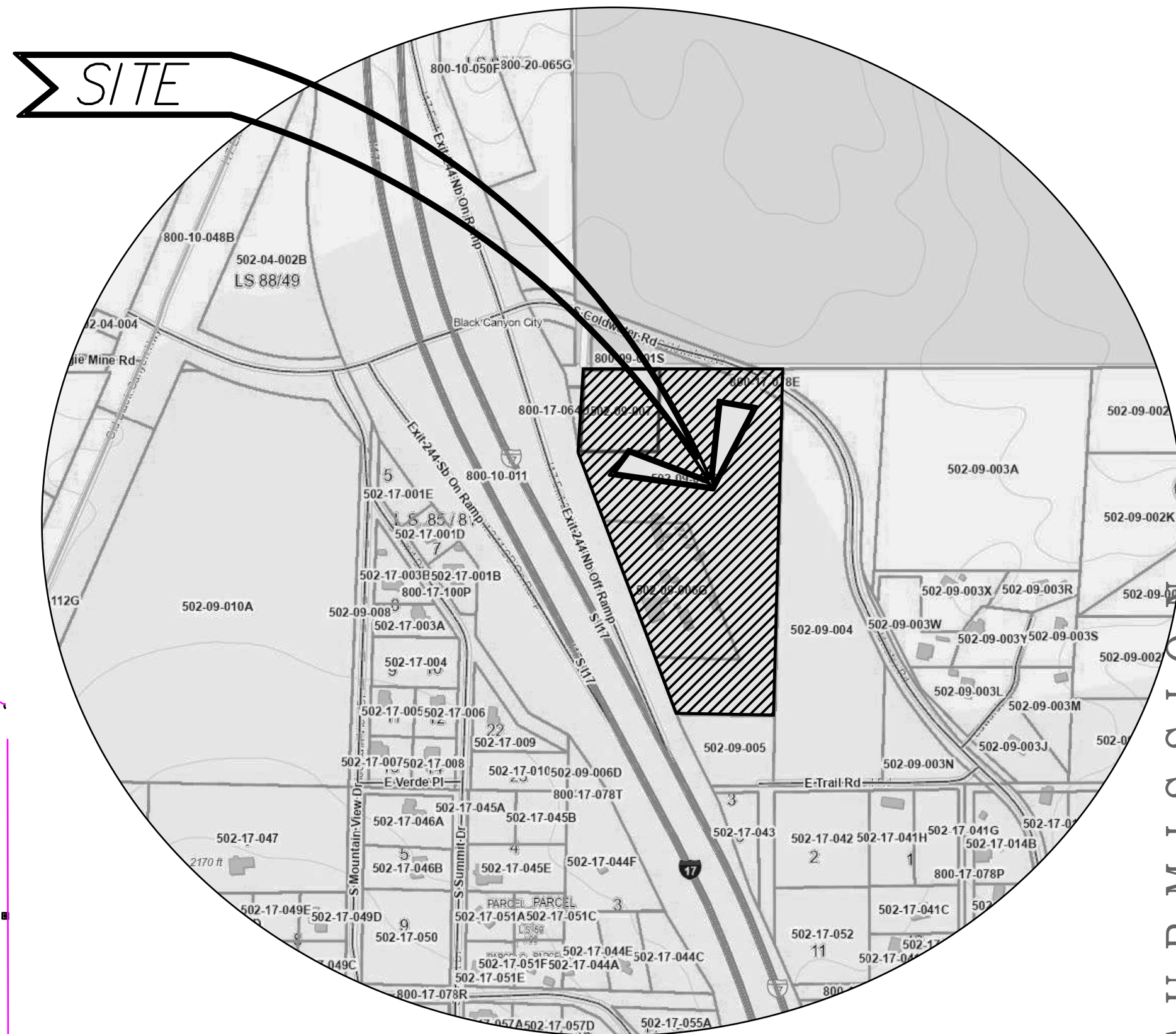
KEY NOTES



1. APPROXIMATE LOCATION OF UTILITY ROOM (#119 - SEE ARCHITECTURAL DOCUMENTS). SUGGEST THE VEEDER ROOT PANEL BE LOCATED WITHIN THIS SPACE (VERIFY WITH BOTH ARCHITECT AND SERVICE STATION COMPLIANCE).
VEEDER-ROOT REQUIRES THE USE OF SHIELDED CABLE FOR ALL PROBES AND SENSORS REGARDLESS OF CONDUIT MATERIAL OR APPLICATION.
2. ABOVE GROUND (AST) NORTH TANK FARM
3. ABOVE GROUND (AST) SOUTH TANK FARM



SEE PETROLEUM SITE PLAN
ON SHEET PP-SITE, AND
PIPING ON SHEET PP-1.0



VICINITY MAP SCALE: NONE

INDEX TO DRAWINGS

PETROLEUM DRAWINGS

1 of 16	PP-COVER	PETROLEUM DRAWINGS COVER
2 of 16	PP-SITE	PETROLEUM DRAWINGS COVER
3 of 16	PP-1.0	AUTO FUEL SYSTEM PIPING & TANK FARM
4 of 16	PP-1.1	TRUE NORTH TANK DETAILS
5 of 16	PP-1.2	TANK DETAILS
6 of 16	PP-1.3	OPW PIPING NOTES AND NORTHERN TANK NOTES
7 of 16	PP-2.0	SOUTH CANOPY FUEL SYSTEM ILLUSTRATION
8 of 16	PP-2.1	SOUTH CANOPY DISPENSER, LIGHTS & AST ELECTRICAL
9 of 16	PP-2.2	SOUTH CANOPY DISPENSERS SINGLE LINE
10 of 16	PP-3.0	NORTH CANOPY FUEL SYSTEM ILLUSTRATION
11 of 16	PP-3.1	NORTH CANOPY DISPENSER, LIGHTS & AST ELECTRICAL
12 of 16	PP-3.2	NORTH CANOPY DISPENSERS SINGLE LINE
13 of 16	PP-4.0	PETROLEUM PRODUCT DETAILS
14 of 16	PP-4.1	PETROLEUM PRODUCT DETAILS
15 of 16	PP-4.2	PETROLEUM PRODUCT DETAILS
16 of 16	PP-SP	GENERAL NOTES & SPECS

THESE DOCUMENTS PROVIDE FOR THE INSTALLATION OF PETROLEUM PRODUCTS ONLY. STRUCTURE AND ALL OTHER ON AND OFF SITE IMPROVEMENTS BY OTHERS, AND SEPRATE INSTRUMENT. OUTSIDE SCOPE OF WORK OF THESE DOCUMENTS.

DESIGN CODES:
Local Codes & Ordinances
2018 International Building Codes
2018 International Building Code (IBC)
2018 International Residential Code (IRC)
2018 International Fire code (IFC)
2018 International Existing Building Code (IEBC)
2018 International Plumbing Code (IPC)
2018 International Mechanical Code (IMC)
2018 International Fuel Gas Code (IFGC)
2017 National Electrical Code (NEC)
(A.P.I.) American Petroleum Institute Standards.

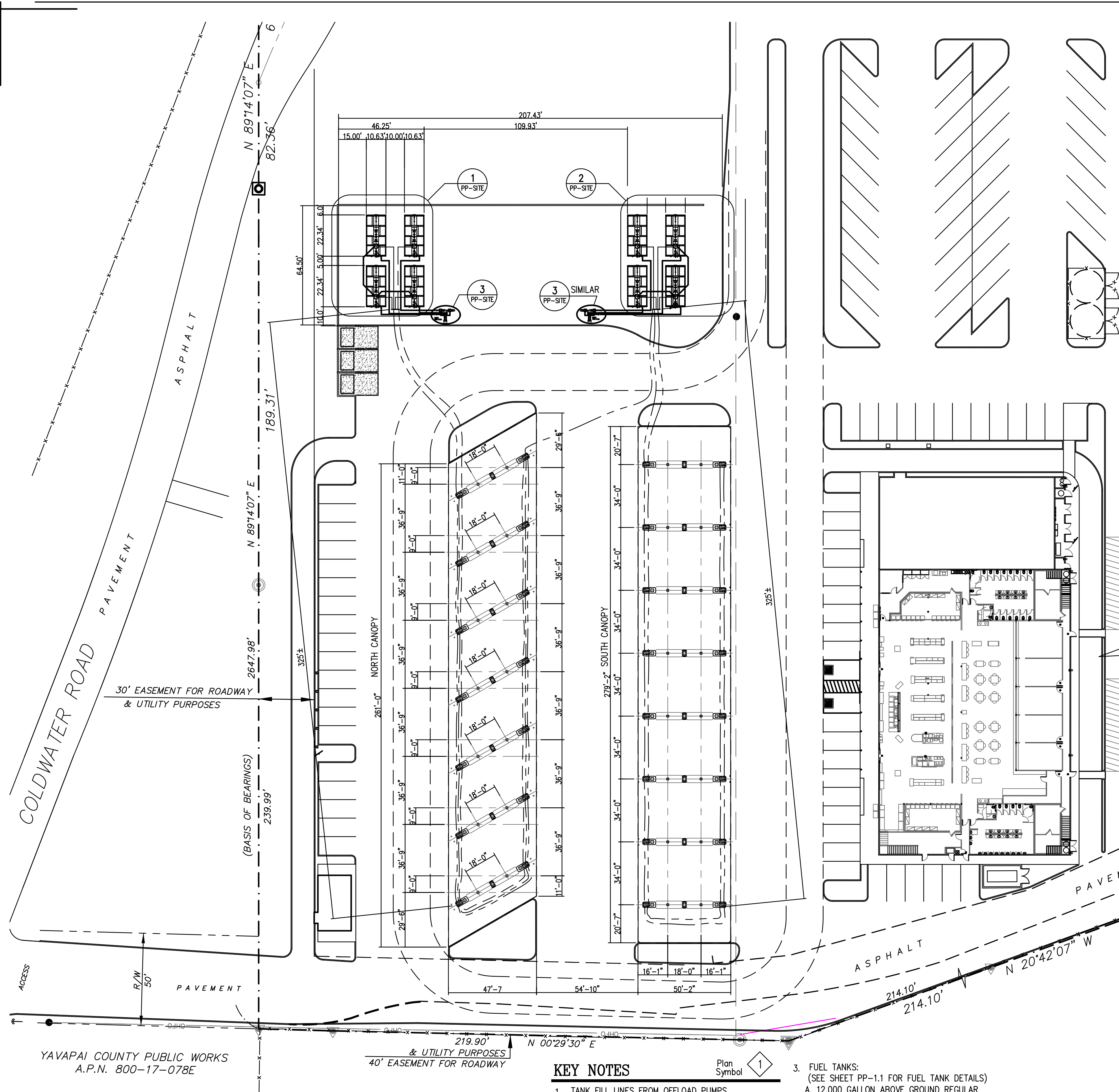
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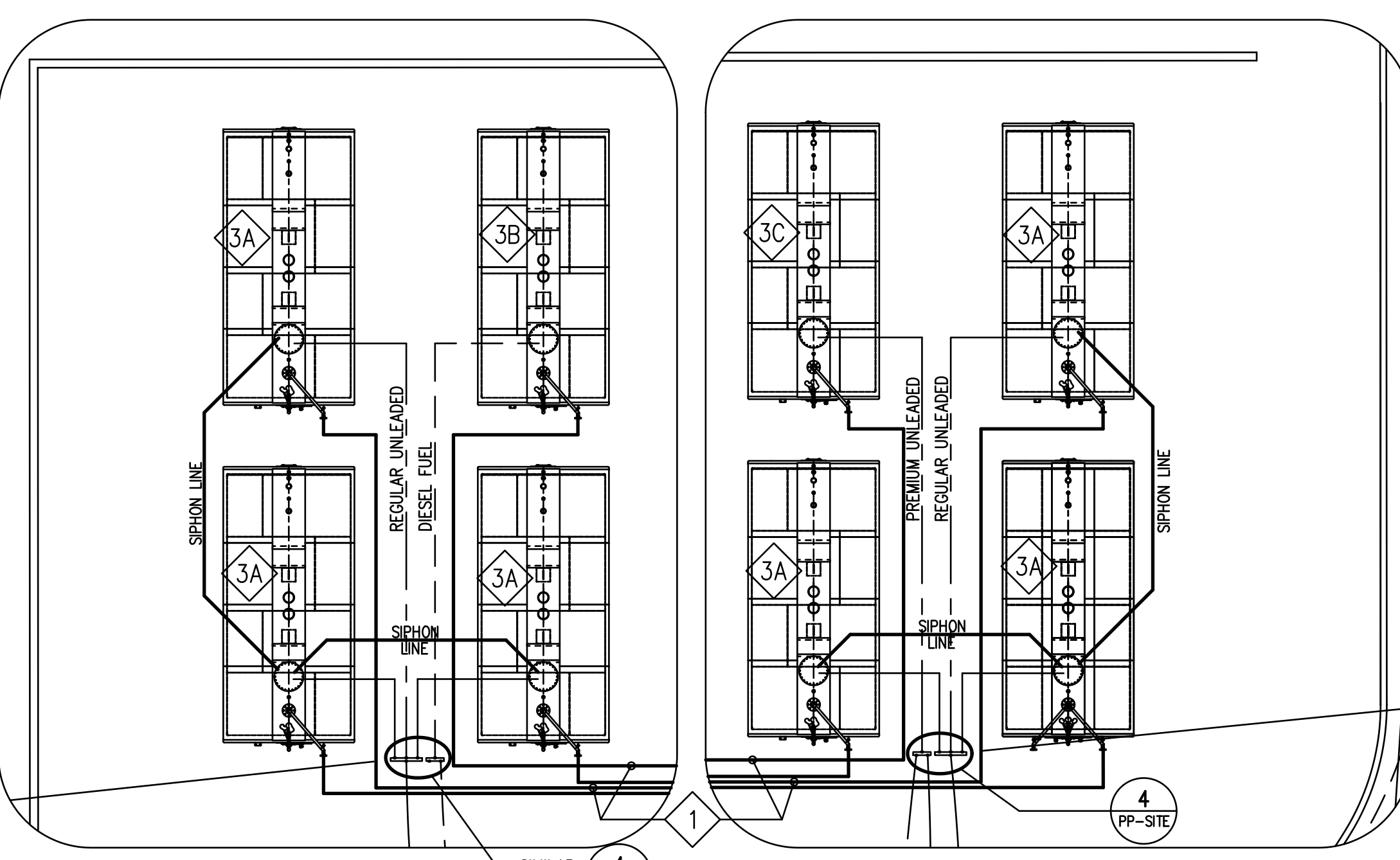
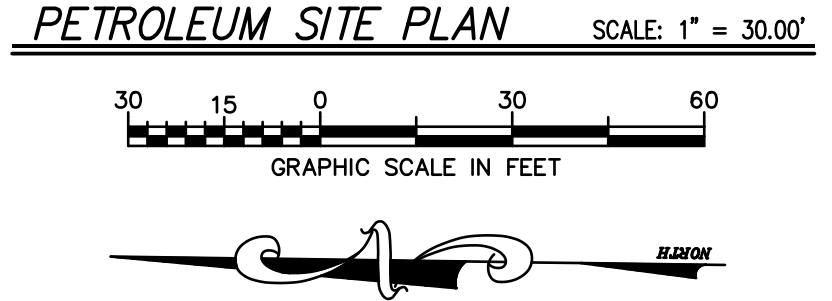
MARK	DATE	NOTES

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SCALE:	AS NOTED
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SHEET TITLE:	PETROLEUM DRAWINGS COVER & SITE
SHEET NUMBER:	PP-Cover
1 of 1	



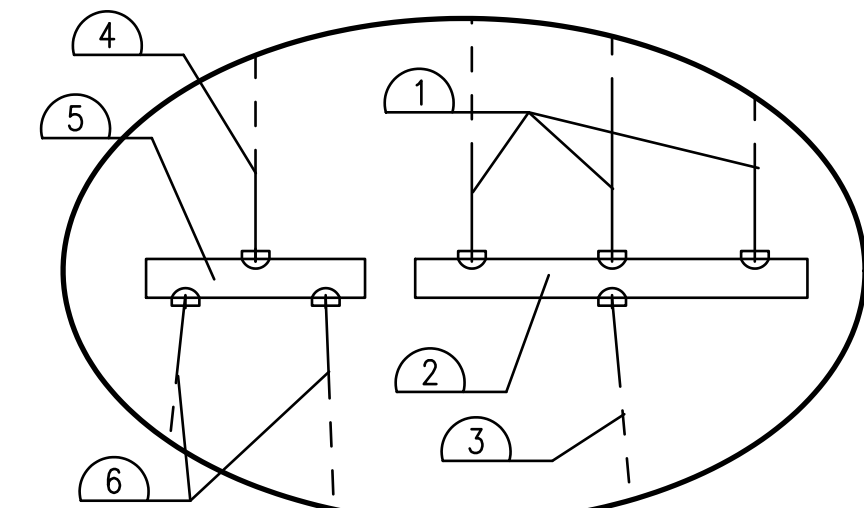
KEY NOTES

- TANK FILL LINES FROM OFFLOAD PUMPS. (3) VALVED FILL LINES TO 12K REGULAR UNLEADED TANKS AT EACH TANK FARM. FILL LINES TO BE CLEARLY LABELED WHICH TANK THEY GO TO. (SEE PETROLEUM SITE PLAN ON THIS SHEET)
- NOV SYSTEMS 3" LCX DOUBLE WALL FIBERGLASS SIPHON LINE TO EQUALIZE (3) 12,000 GALLON REGULAR UNLEADED FUEL TANKS.
- FUEL TANKS: (SEE SHEET PP-1.1 FOR FUEL TANK DETAILS)
 - 12,000 GALLON ABOVE GROUND REGULAR UNLEADED FUEL STORAGE TANKS (AST).
 - 12,000 GALLON ABOVE GROUND DIESEL FUEL STORAGE TANK (AST).
 - 12,000 GALLON ABOVE GROUND PREMIUM UNLEADED FUEL STORAGE TANK (AST).
- SIGN & NFPA PLACARD



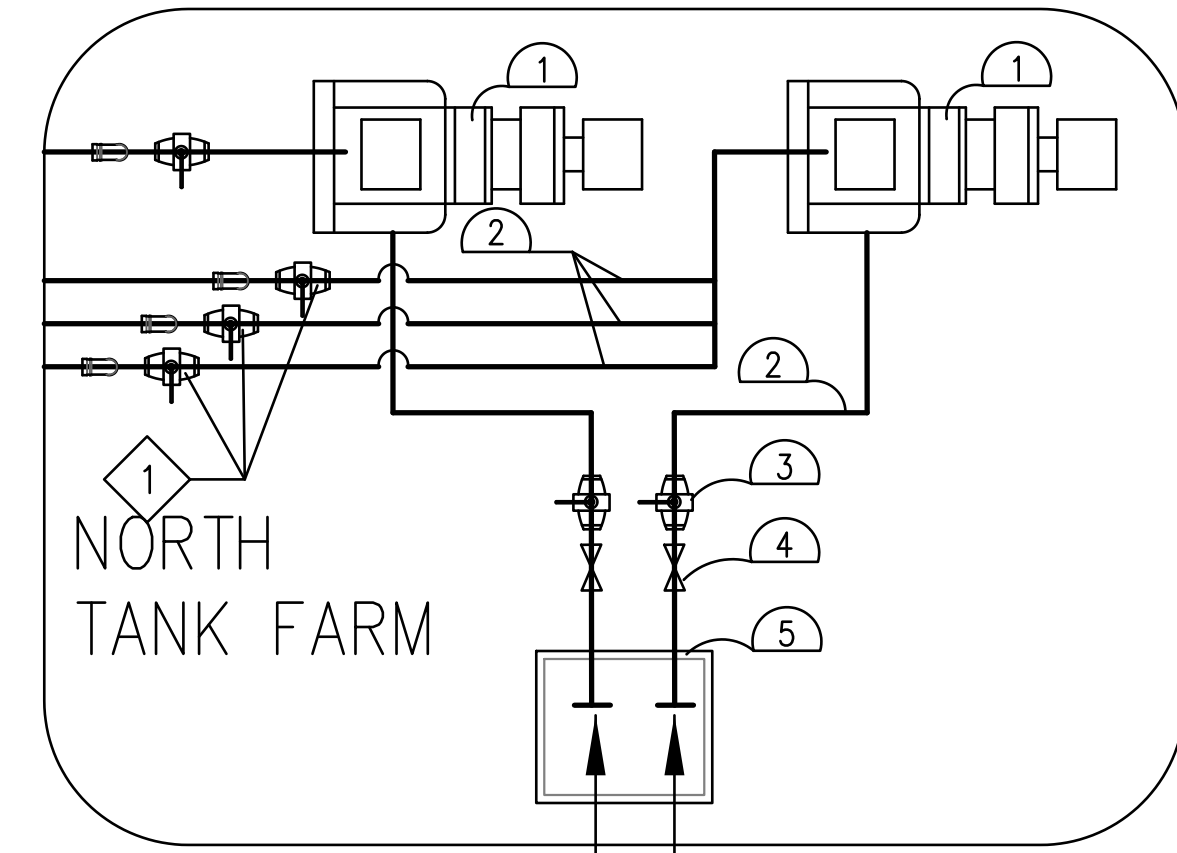
1 AST: NORTH TANK FARM
PP-SITE SCALE: 1"= 10.00'

2 AST: SOUTH TANK FARM
PP-SITE SCALE: 1"= 10.00'



4 FUEL PIPING MANIFOLD
PP-SITE SCALE: NONE

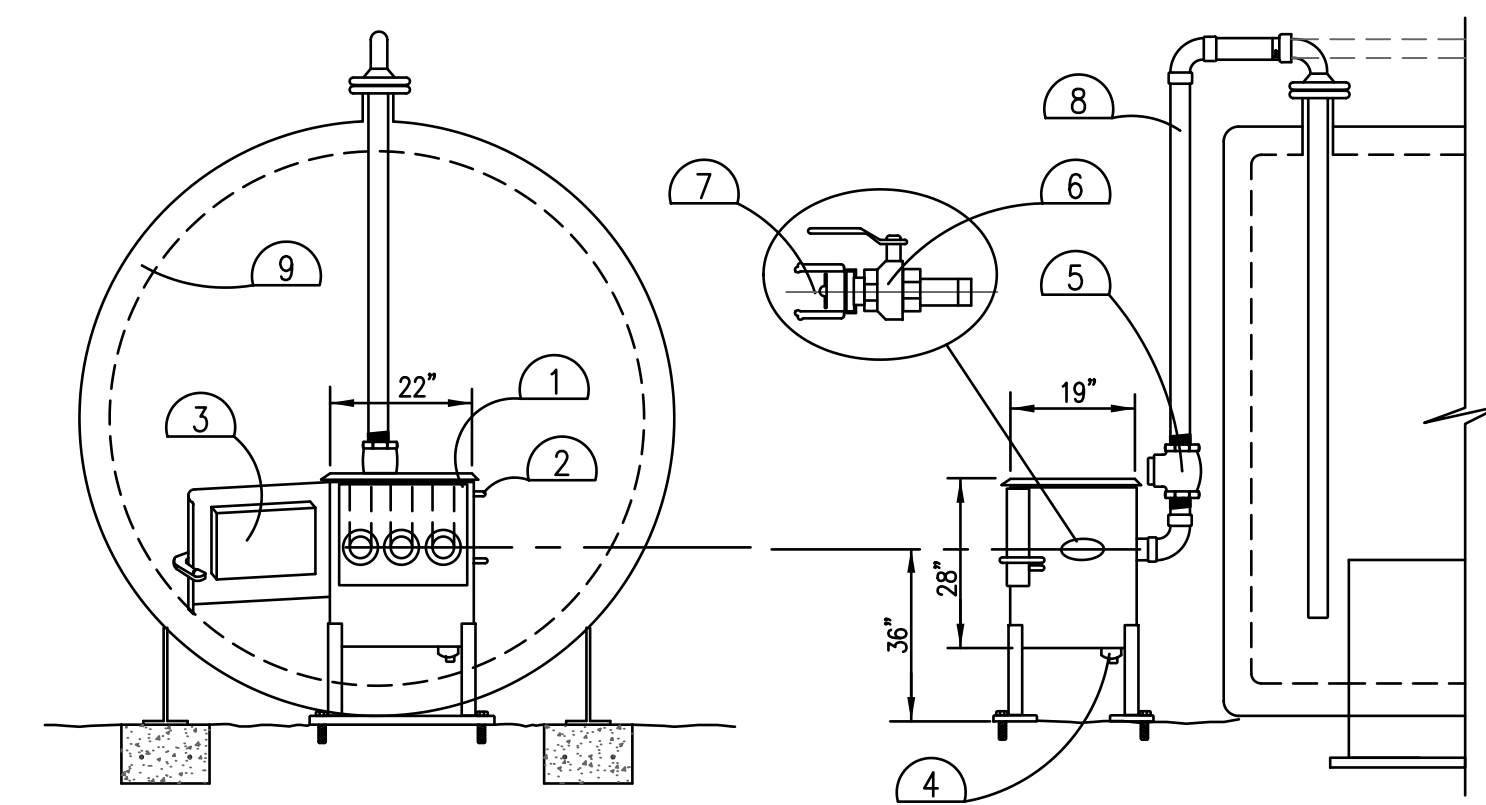
- REGULAR UNLEADED LINES FROM (3) AST TURBIN PUMPS
- FUEL DELIVERY MANIFOLD: TIE ALL THREE LINES FROM (3) 12K TANKS TO A SINGLE DISPENSER DELIVERY LINE
- 3 IN. REGULAR UNLEADED FUEL LINE TO DISPENSERS (SEE PIPING PLAN ON SHEET PP-1.0)
- PREMIUM UNLEADED LINE FROM AST TURBIN PUMPS
- FUEL DELIVERY MANIFOLD: DELIVERING PREMIUM UNLEADED TO BOTH NORTH AND SOUTH CANOPY'S
- PREMIUM UNLEADED LINES TO BOTH NORTH AND SOUTH CANOPY'S



REGULAR UNLEADED
DIESEL AT NORTH TAN FARM
PREMIUM UNLEADED AT SOUTH

3 OFFLOAD PUMPS
PP-SITE SCALE: 1/2"= 1'-0"

- GORMAN RUPP OFF-LOAD PUMP ASSEMBLY ~ 10 HP. ~ 1750 RPM.
- C.I. PIPE FROM FILL CONTAINMENT BOX TO AST'S.
- GATE VALVE WITH EXPANSION RELIEF.
- CHECK VALVE
- BAKER INDUSTRIES #700 SERIES GROUND LEVEL SPILL CONTAINMENT UNIT.

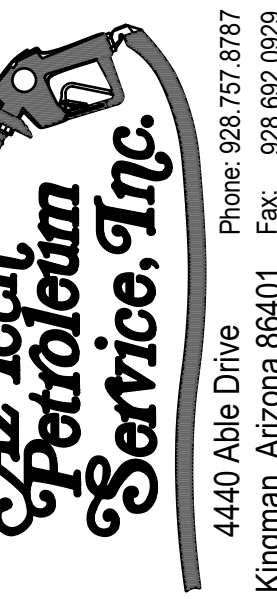


5 GROUND LEVEL SPILL CONTAINMENT UNIT
PP-SITE

- 20 GALLON SPILL CONTAINMENT UNIT
- GROUND STUD.
- LOCKABLE, HINGED DOOR, WITH TANK FILL RECORD STORAGE INSIDE.
- BOTTOM SLOPES TO 1/2" F.P.T. DRAINAGE COCK.
- 3" CHECK VALVE.
- 3" BALL VALVE.
- 3" MALE CAMLOCK AND DUST CAP.
- 3" PRODUCT FILL PIPING.
- FUEL TANKS BEYOND.

N.T.S.

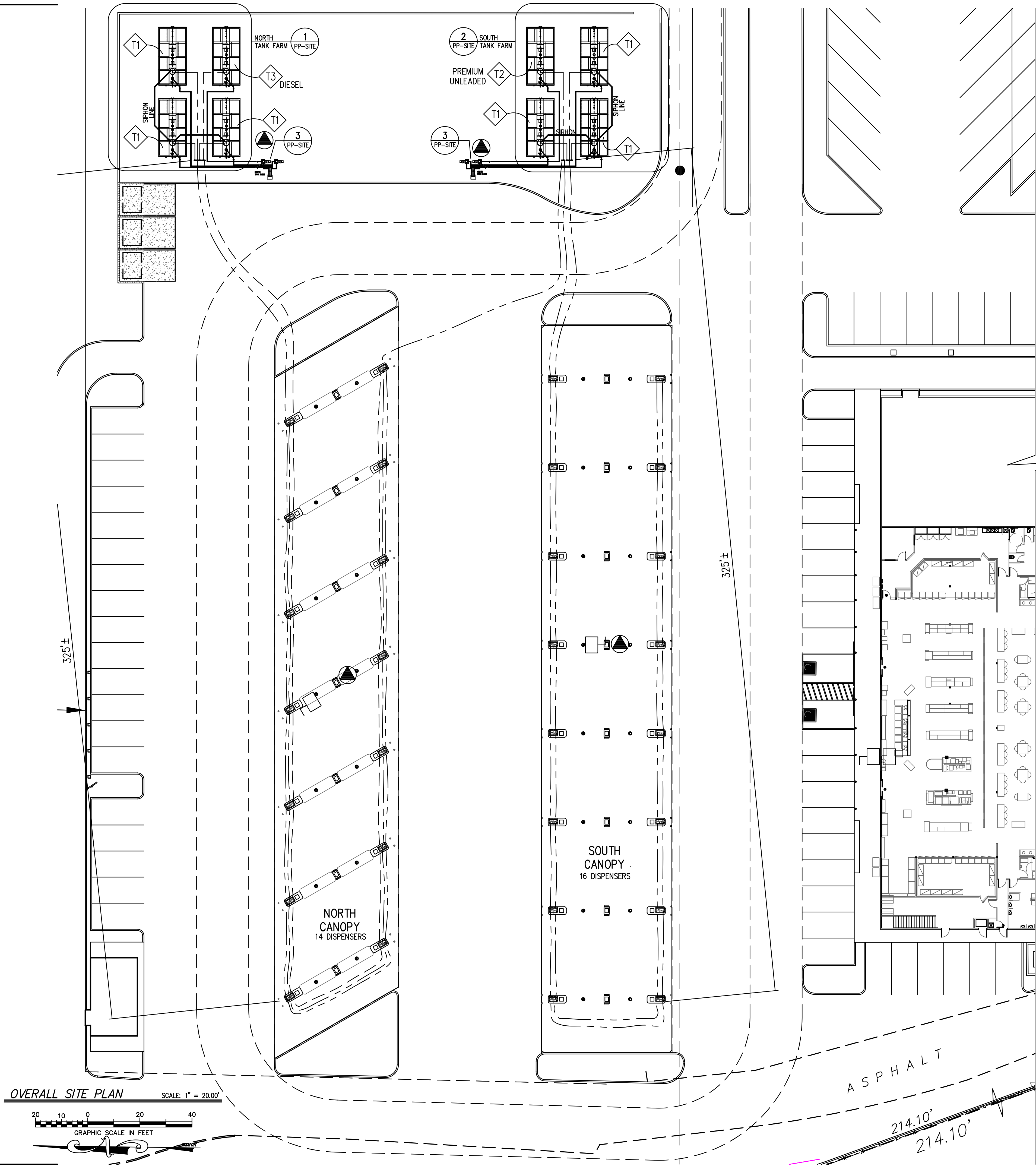
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SHEET NUMBER:	2
PP-SITE	of



KEY NOTES

- CANOPY PER DIMS, CALCS, SPECS AND DRAWINGS FROM ACCREDITED PROVIDER.
- CONTAINMENT SOLUTIONS PETROLEUM TANK FARM:
 - T1 12,000 GALLON REGULAR UNLEADED.
 - T2 12,000 GAL. PREMIUM UNLEADED.
 - T3 12,000 GAL. DIESEL
- A. OPW FLEXWORKS 1.5" DOUBLE WALL FLEXIBLE UNDERGROUND PIPING
 - A. DIESEL: _____
 - B. REGULAR UNLEADED _____
 - C. PREMIUM UNLEADED _____
- FIRE EXTINGUISHER (4 A 80 BC, OR BETTER) MOUNTED TO COLUMN AT DISPENSER, OR ON POLE MOUNTED CABINET AT TANK FARM. (SITE VERIFY LOCATION)
- 2018 IFC - Chapter 23: Motor Fuel-Dispensing Facilities and Repair Garages 2305.5 Fire extinguishers. Approved portable fire extinguishers complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided and located such that an extinguisher is not more than 75 feet (22 860 mm) from pumps, dispensers or storage tank fill-pipe openings.
- 2303.2 emergency disconnect switches:

An approved, clearly identified and readily accessible emergency disconnect switch shall be provided at an approved location to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or other emergency. an emergency disconnect switch for exterior fuel dispensers shall be located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, the fuel dispensers. for interior fuel-dispensing operations, the emergency disconnect switch shall be installed at an approved location. such devices shall be distinctly labeled as: emergency fuel shutoff. signs shall be provided in approved locations.

2303.2.1 Height:
The height of the emergency disconnect switch shall be not less than 42 inches (1067 mm) and not more than 48 inches (1372 mm) measured vertically, from the floor level to the activating button.

GENERAL NOTES

- Encore 3+1 dispensers with new piping and dispenser sumps.
- All piping, fill caps, vapor recovery fittings, manholes, etc. shall be color-coded with paint per latest "api" requirements.
- Pitch all vapor recovery and vent piping up min. 1/8 in. per foot from piping sumps to dispensers or vent.
- All work near gasoline dispensing area and storage tank area shall be done in accordance with class 1 division 1 hazardous location national electric code requirements.
- During construction and prior to final acceptance by the owner all tanks shall be ballasted as required per manufacturers instructions & recommendations. upon final acceptance by owner contractor shall empty tank(s) completely for initial product fill. no gasoline shall be provided prior to acceptance of installation. submerged pumps are not to be used for water removal.
- Installation of petroleum storage tanks, submersible pumps, dispensers and system accessories shall be in strict accordance with manufacturers instructions and recommendations.
- Gasoline storage and dispensing systems shall be in accordance with all applicable codes and standards.
- 2018 IFC: 2305.6 Warning signs.

Warning signs shall be conspicuously posted within sight of each dispenser in the fuel-dispensing area and shall state the following:

 - No smoking.
 - Shut off motor.
 - Discharge your static electricity before fueling by touching a metal surface away from the nozzle.
 - To prevent static charge, do not reenter your vehicle while gasoline is pumping.
 - If a fire starts, do not remove nozzle --back away immediately.
- It is unlawful and dangerous to dispense gasoline into unapproved containers.
- No filling of portable containers in or on a motor vehicle. place container on ground before filling.
- All hazardous explosive electrical connections to comply with the 2017 NEC.
- Work to comply with applicable requirements of 2018 IFC Chapter 57: Flammable and Combustible Liquids
- 2306.7.5 Dispenser hose
Dispenser hoses shall be not more than 18 feet (5486 mm) in length unless otherwise approved. Dispenser hoses shall be listed and approved. When not in use, hoses shall be reeled, racked or otherwise protected from damage.

Maximum Flow GPM	Vent line diameters Pipe Length*		
	50 FEET	100 FEET	200 FEET
100	1½-inch	1½-inch	1½-inch
200	1½-inch	1½-inch	1½-inch
300	1½-inch	1½-inch	1½-inch
400	1½-inch	1½-inch	2-inch
500	1½-inch	1½-inch	2-inch
600	1½-inch	2-inch	2-inch
700	2-inch	2-inch	2-inch
800	2-inch	2-inch	3-inch
900	2-inch	2-inch	3-inch
1,000	2-inch	2-inch	3-inch

*Vent lines of 50 feet, 100 feet, and 200 feet of pipe plus 7 ell

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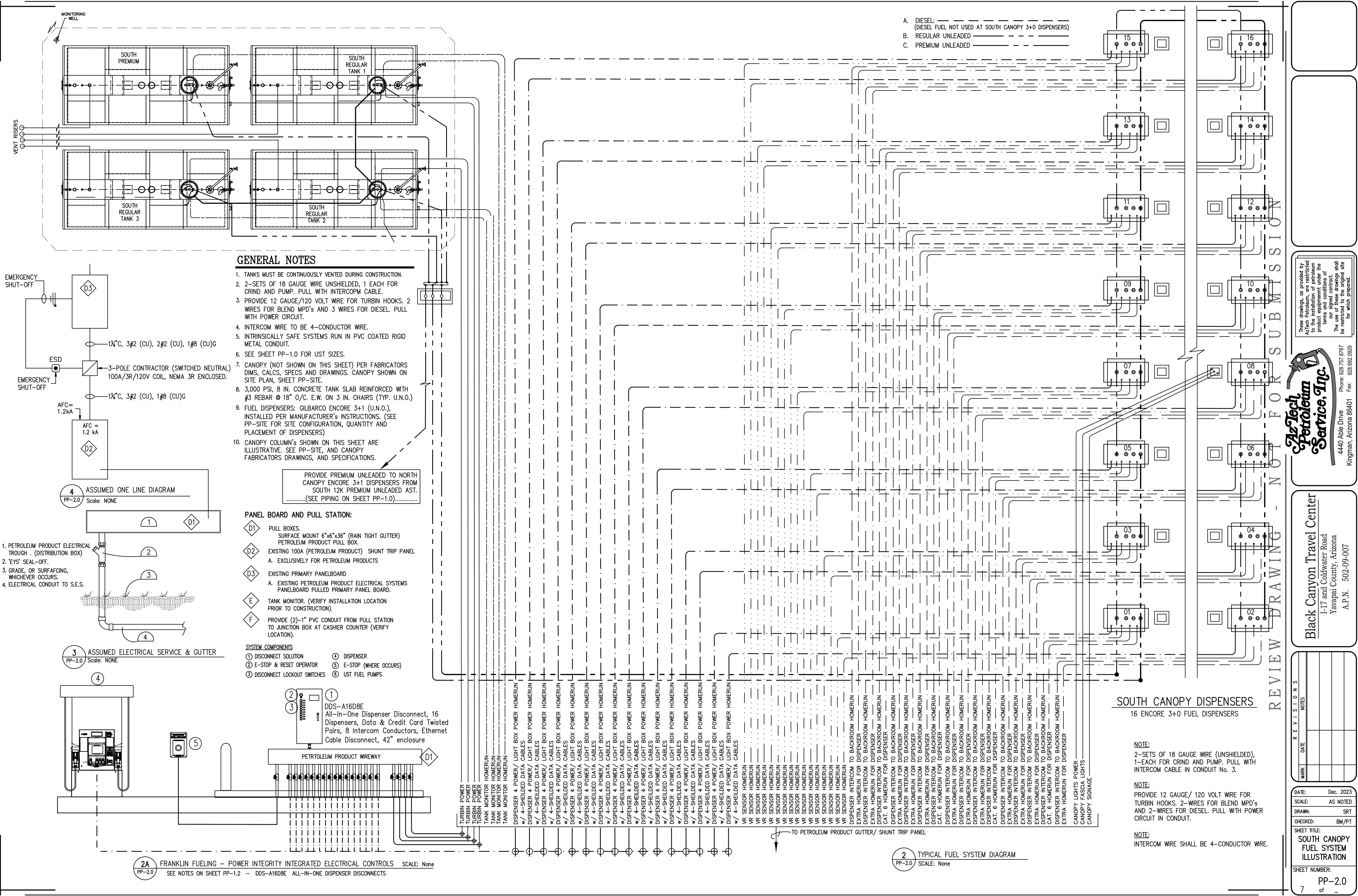
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SHEET TITLE: PETROLEUM PIPING PLAN
SHEET NUMBER: 3 of 10
PP-1.0



GENERAL NOTES

- 1. TANKS MUST BE CONTINUOUSLY VENTED DURING CONSTRUCTION.
- 2--SETS OF 18 GAUGE WIRE UNSHIELDED, 1 EACH FOR GRIND AND PUMP. PULL WITH INTERCOFM CABLE.
- 3. PROVIDE 12 GAUGE/120 VOLT WIRE FOR TURBIN HOOKS. 2 WIRES FOR BLEND MPD's AND 3 WIRES FOR DIESEL. PULL WITH POWER CIRCUIT.
- 4. INTERCOM WIRE TO BE 4--CONDUCTOR WIRE.
- 5. INTRINSICALLY SAFE SYSTEMS RUN IN PVC COATED RIGID METAL CONDUIT.
- 6. SEE SHEET PP-1.0 FOR UST SIZES.
- 7. CANOPY (NOT SHOWN ON THIS SHEET) PER FABRICATORS DIMS, CALCS, SPECS AND DRAWINGS. CANOPY SHOWN ON SITE PLAN, SHEET PP-SITE.
- 8. 3,000 PSI, 8 IN. CONCRETE TANK SLAB REINFORCED WITH #3 REBAR @ 18" O/C. E.W. ON 3 IN. CHAIRS (TYP. U.N.O.)
- 9. FUEL DISPENSERS: GILBARCO ENCORE 3+1 (U.N.O.), INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE PP-SITE FOR SITE CONFIGURATION, QUANTITY AND PLACEMENT OF DISPENSERS)
- 10. CANOPY COLUMN'S SHOWN ON THIS SHEET ARE ILLUSTRATIVE. SEE PP-SITE, AND CANOPY FABRICATORS DRAWINGS, AND SPECIFICATIONS.

PROVIDE PREMIUM UNLEADED TO NORTH CANOPY ENCORE 3+1 DISPENSERS FROM SOUTH 12K PREMIUM UNLEADED AST.(SEE PIPING ON SHEET PP-1.0).....

PANEL BOARD AND PULL STATION:

- D1 PULL BOXES. SURFACE MOUNT 6"x6"x36" (RAIN TIGHT GUTTER) PETROLEUM PRODUCT PULL BOX.
- D2 EXISTING 100A (PETROLEUM PRODUCT) SHUNT TRIP PANEL. A. EXCLUSIVELY FOR PETROLEUM PRODUCTS
- D3 EXISTING PRIMARY PANELBOARD. A. EXISTING PETROLEUM PRODUCT ELECTRICAL SYSTEMS PANELBOARD PULLED PRIMARY PANEL BOARD.
- E TANK MONITOR. (VERIFY INSTALLATION LOCATION PRIOR TO CONSTRUCTION).
- F PROVIDE (2)--1" PVC CONDUIT FROM PULL STATION TO JUNCTION BOX AT CASHIER COUNTER (VERIFY LOCATION).

SYSTEM COMPONENTS

- 1 DISCONNECT SOLUTION
- 2 E--STOP & RESET OPERATOR
- 3 DISCONNECT LOCKOUT SWITCHES
- 4 DISPENSER
- 5 E--STOP (WHERE OCCURS)
- 6 UST FUEL PUMPS

- 1 DDS-A16D8E All-In-One Dispenser Disconnect, 16 Dispensers, Data & Credit Card Twisted Pairs, 8 Intercom Conductors, Ethernet Cable Disconnect, 42" enclosure
- 2
- 3

PETROLEUM PRODUCT WIREWAY

SOUTH CANOPY DISPENSERS
16 ENCORE 3+0 FUEL DISPENSERS

NOTE:
2--SETS OF 18 GAUGE WIRE (UNSHIELDED), 1--EACH FOR GRIND AND PUMP. PULL WITH INTERCOM CABLE IN CONDUIT No. 3.

NOTE:
PROVIDE 12 GAUGE/ 120 VOLT WIRE FOR TURBIN HOOKS. 2--WIRES FOR BLEND MPD's AND 2--WIRES FOR DIESEL. PULL WITH POWER CIRCUIT IN CONDUIT.

NOTE:
INTERCOM WIRE SHALL BE 4--CONDUCTOR WIRE.

- A. DIESEL: (DIESEL FUEL NOT USED AT SOUTH CANOPY 3+0 DISPENSERS)
- B. REGULAR UNLEADED
- C. PREMIUM UNLEADED

2 TYPICAL FUEL SYSTEM DIAGRAM
PP-2.0 SCALE: None

2A FRANKLIN FUELING -- POWER INTEGRITY INTEGRATED ELECTRICAL CONTROLS
PP-2.0 SEE NOTES ON SHEET PP-1.2 - DDS-A16D8E ALL-IN-ONE DISPENSER DISCONNECTS

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SHEET TITLE: SOUTH CANOPY FUEL SYSTEM ILLUSTRATION
SHEET NUMBER: PP-2.0 of 7