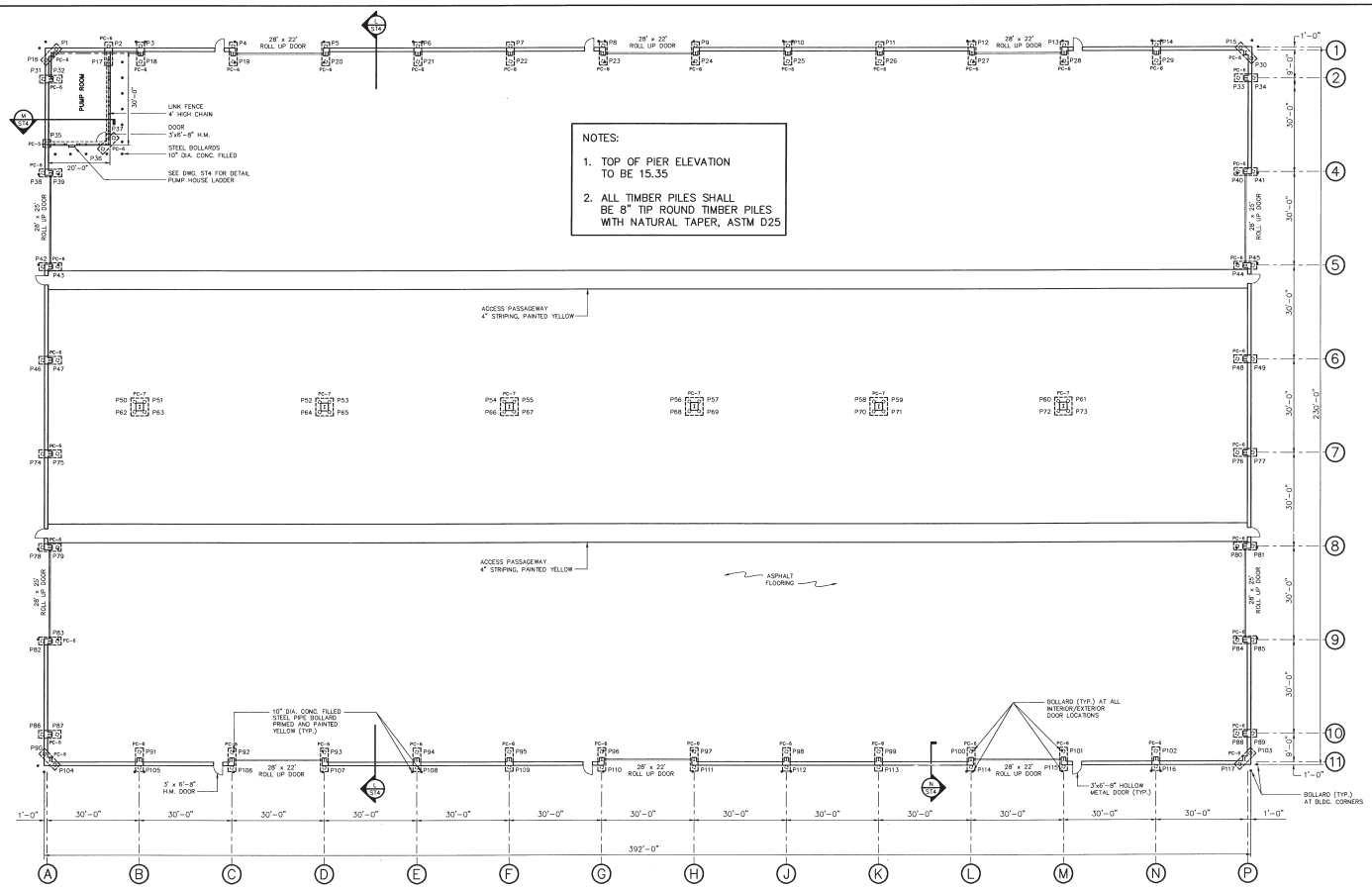
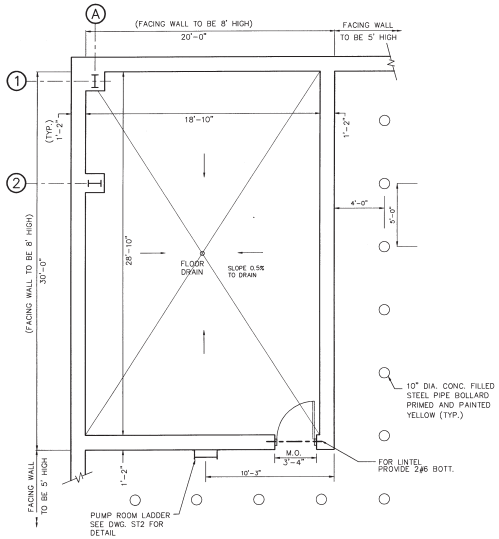


BUILDING FOUNDATION/FLOOR PLAN

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

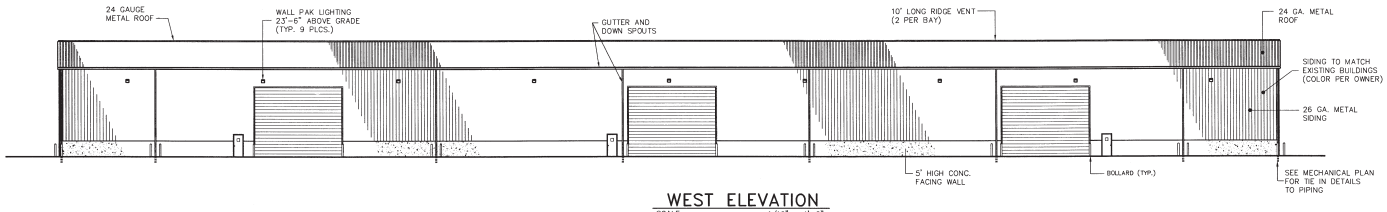


PUMP ROOM FLOOR PLAN

1/4"=1'-0" SCALE:

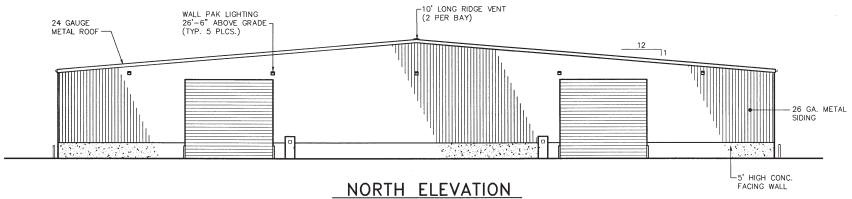
STRUCTURAL PAINTING			
ITEM	GALVANIZE	SHOP PRIME	FIELD FINISH-PAINT*
1. Primary frames, columns, jack beams		✓	✓
2. Secondary structurals (girts, purlins)		✓	
3. Rollup doors	✓	✓	✓
4. Hollow metal doors	✓	✓	✓
5. Door frames	✓	✓	✓
6. Chain link fence	✓		
7. Steel Ladder		✓	✓
8. Pipe Bollards	✓	✓	✓
9. Siding and Roof Protection System	Factory Finish "Keynar 500"		

* All colors selected by Owner.



WEST ELEVATION

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



NORTH ELEVATION

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

BUILDING DATA:

BUILDING AREA	90,160 sq. ft.
USE GROUP	S-1
CONSTRUCTION TYPE	1B, PROTECTED COLUMNS

STRUCTURAL LOADS

MAIN BUILDING

VERTICAL	
GROUND SNOW LOAD	25 P.S.F.
COLLATERAL DEAD LOAD	5 P.S.F.
HORIZONTAL	
WIND SPEED	80 mph
(DOORS)	150 mph
IMPT. FACTOR	1.06
EXPOSURE CATEGORY:	MAIN WIND RESISTANCE – C COMPONENTS AND CLADDING – C

EARTHQUAKE EFFECTIVE PEAK ACCELERATION COEFFICIENT = .06

GENERAL NOTES:

1. THE STATE OF NEW JERSEY APPROVED EDITION OF THE BOCA BASIC BUILDING CODE AT THE TIME OF CONSTRUCTION SHALL ESTABLISH THE CRITERIA FOR ALL DESIGN AND CONSTRUCTION.
2. CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR INTERPRETATION PRIOR TO BEGINNING ANY WORK. THE DISCOVERY OF DISCREPANCIES AFTER THE WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
3. THE CONTRACTOR SHALL EXERCISE UTMOST CARE TO AVOID INFLICTING DAMAGE TO EXISTING STRUCTURES; IF EXISTING STRUCTURES ARE DAMAGED, IT SHALL BE REPAIRED WITHOUT COST TO THE OWNER.
4. DO NOT SCALE THESE DRAWINGS FOR EXACT DIMENSIONS, VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
5. THE BUILDING IS NOT HEATED AND NOT INSULATED.

BUILDING FOUNDATION/FLOOR PLAN AND ELEVATIONS

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

JCA Associates, Inc.
CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS
1256 NORTH CHURCH STREET, SUITE 3
MOORESTOWN, NJ 08057 (856)722-6700

revisions		
no	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 29129
DATE

drawn	designed	checked	approved
JDH			

date 8/11/00	job no. S.PC-00300
scale 1/16"=1'-0"	file no. BB-1637
dwg no.	ST3

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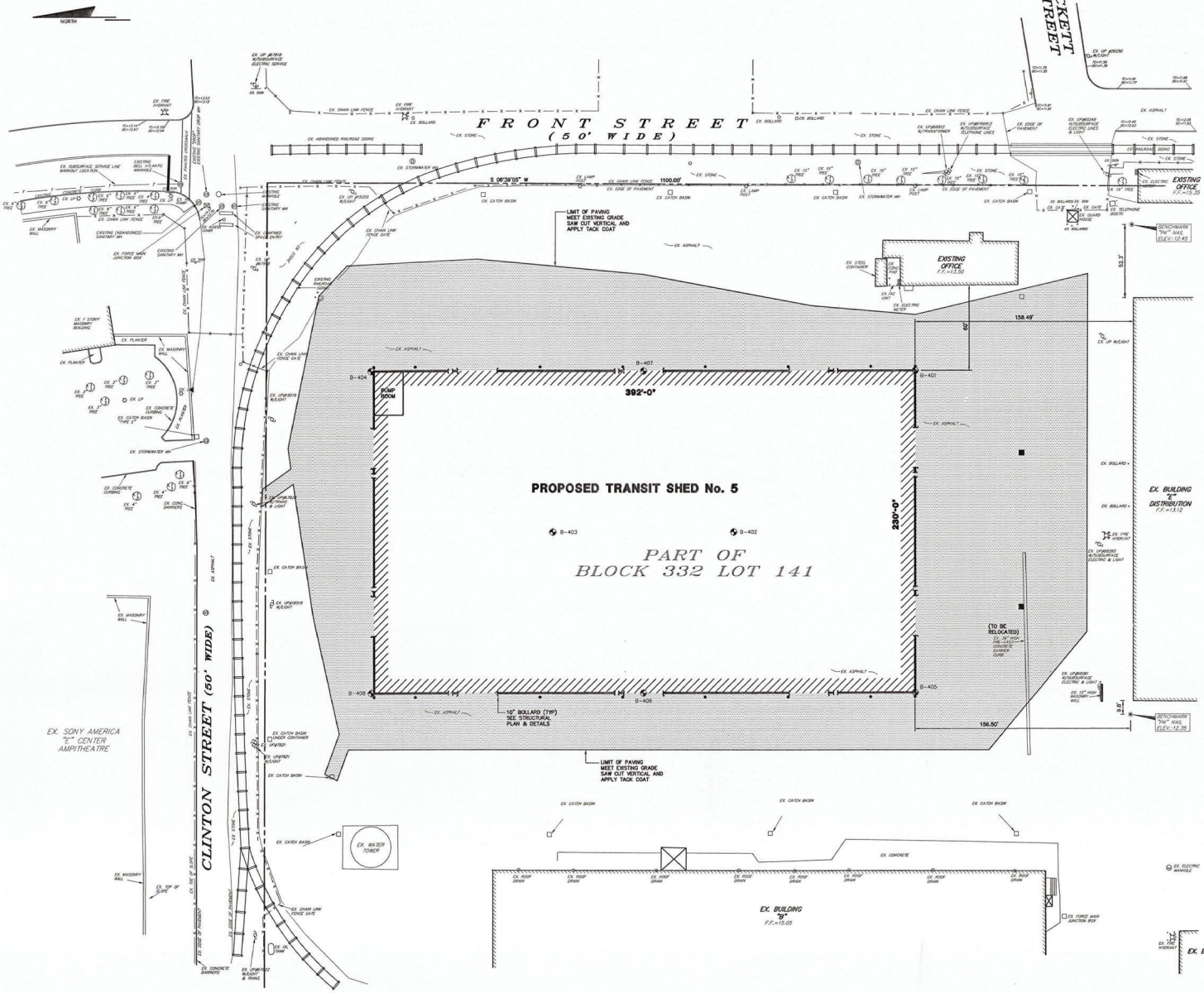

GENERAL NOTES:

1. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN TAKEN FROM VARIOUS SOURCES AND ARE SHOWN FOR DESIGN AND ESTIMATING PURPOSES ONLY. ACTUAL LOCATIONS OF UTILITIES SHALL BE FIELD VERIFIED. ANY DISCREPANCIES OR APPARENT CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION. CONTRACTORS ARE ADVISED TO CALL 1-800-272-1000 BEFORE COMMENCING CONSTRUCTION FOR A MARKOUT OF EXIST. UTILITIES.
2. CONCRETE ENCASEMENT SHALL BE PROVIDED FOR ALL PIPE/UTILITY CROSSINGS WHERE LESS THAN EIGHTEEN INCHES OF CLEARANCE WILL RESULT - SUBJECT TO THE REQUIREMENTS OF THE UTILITY COMPANY.
3. EXISTING UTILITIES INCLUDING VALVE BOXES, CLEAN OUTS, CURB STOPS, MANHOLES, ETC. SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE. STORM DRAINAGE STRUCTURES SHALL NOT BE ADJUSTED UNLESS SPECIFICALLY CALLED FOR.
4. WHERE PROPOSED PAVEMENT WILL ABUT ANY EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW-CUT TO PROVIDE A SMOOTH VERTICAL EDGE. ALL ASPHALT JOINTS SHALL BE SEALED WITH A HOT POURED RUBBER ASPHALT JOINT SEALER CONFORMING TO THE REQUIREMENTS OF ASTM D1190. ALL EXISTING JOINTS SHALL ALSO BE SEALED PRIOR TO PLACEMENT OF THE FABC OVERLAY.
5. THE CONTRACTOR SHALL PROPERLY DISPOSE OF SPOILS AND EXCAVATED MATERIALS.
6. FOR TYPICAL DETAILS REFER TO DETAIL SHEET(S).
7. TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION TO LOCATE UNDER-GROUND UTILITIES.
8. MEET EXISTING GRADES AT ALL LIMITS OF CONSTRUCTION.
9. ALL EXISTING CONDITIONS AND DIMENSIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
11. PROJECT SITE TO BE CLEARED ONLY AS REQUIRED.
12. CONTRACTOR TO REPAIR ALL AREAS OF EXISTING PAVEMENT DISTURBANCE TO EXISTING CONDITIONS.
13. NO CONSTRUCTION OF THE SITE IMPROVEMENTS OR BUILDING SHALL TAKE PLACE PRIOR TO THE ISSUANCE OF CITY STAMPED APPROVED PLANS AS REVISED IN ACCORDANCE WITH THE RESOLUTION OF APPROVAL.
14. THE DEPARTMENT OF PUBLIC WORKS SHALL BE CONTACTED FOR A PRE CONSTRUCTION MEETING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION AND 48 HOURS PRIOR TO ANY DISTURBANCE.
15. ALL NEW ELECTRIC, WATER OR OTHER PUBLIC UTILITIES MUST BE INSTALLED UNDERGROUND.
16. SITE PLAN BASED ON PLAN ENTITLED "EXISTING CONDITIONS PLAN FOR PROPOSED TRANSIT SHED No. 4" PREPARED BY ALBERT A. FRAUNGER, JR. DATED 6-07-2000.
17. CONSTRUCTION REQUIREMENTS FOR UTILITY CROSSING OF CONRAIL LINE. BORE AND JACK.
    A. THIS METHOD CONSISTS OF PUSHING THE PIPE INTO THE EARTH WITH A BORING AUGER ROTATING WITHIN THE PIPE TO REMOVE THE SPOIL.
    B. THE BORING OPERATION SHALL BE PROGRESSED ON A 24-HOUR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT.
    C. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE
    D. IF DURING INSTALLATION AN OBSTRUCTION IS ENCOUNTERED WHICH PREVENTS INSTALLATION OF THE PIPE IN ACCORDANCE WITH THIS SPECIFICATION, THE PIPE SHALL BE ABANDONED IN PLACE AND IMMEDIATELY FILLED WITH GROUT. A NEW INSTALLATION PROCEDURE AND REVISED PLANS MUST BE SUBMITTED TO, AND APPROVED BY, CONRAIL BEFORE WORK CAN RESUME.
    E. THE OVER-CUT BY THE CUTTING HEAD SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE PIPE BY MORE THAN 1/2 INCH (13mm). IF VOIDS SHOULD DEVELOP OR IF THE BORED HOLE DIAMETER IS GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE (PLUS COATING) BY MORE THAN APPROXIMATELY 1 INCH (25mm), GROUTING (SEE SECTION 5.2) OR OTHER METHODS APPROVED BY CONRAIL, SHALL BE EMPLOYED TO FILL SUCH VOIDS.
    F. THE FACE OF THE CUTTING HEAD SHALL BE ARRANGED TO PROVIDE A REASONABLE OBSTRUCTION TO THE FREE FLOW OF SOFT OR POOR MATERIAL.
18. BOUNDARY INFORMATION BASED ON PLAN ENTITLED "MAP OF BOUNDARY SURVEY PREPARED FOR BLOCK 141, LOT1, BLOCK 214, LOT 1, BLOCK 215, LOT 59" PREPARED BY VAN CLEEF ENGINEERING ASSOCIATES, DATED SEPT. 4, 1997, REVISED 2/6/98.
19. CONTRACTOR TO JET-CLEAN ALL EXISTING AND PROPOSED STORM LINES.

LEGEND

EXISTING		PROPOSED
35	CONTOUR ELEVATION	14
35.5	SPOT ELEVATION	14.20
EOP	EDGE OF PAVEMENT	
TC	TOP OF CURB	
BC	BOTTOM OF CURB	
TW	TOP OF WALL	
BW	BOTTOM OF WALL	
	SOIL BORING	
	UTILITY POLE	
	CONCRETE CURB	
	DEPRESSED CURB	
W	WATER MAIN	W
G	GAS MAIN	G
SS	SANITARY SEWER	
ST	STORMWATER	
E	ELECTRIC	E
	CATCH BASIN	
EX.	EXISTING	
	DOWNSPOUT	
	BITUMINOUS PAVING	

NOTE

TAX MAP REFERENCE:
SHEET 40
BLOCK 332
LOTS 41

BENCH MARK: BENCHMARK INFORMATION PROVIDED BY JCA ASSOCIATES, INC. (PROJECT DATUM).

SEE PLAN FOR ACTUAL LOCATION

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SITE PLAN

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

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revisions		
no.	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 27629

date	job no.	dwg no.
8/11/00	SJPC-00300	C5
scale 1"=30'	file no. 88-1633	

drawn JDH | designed | checked | approved

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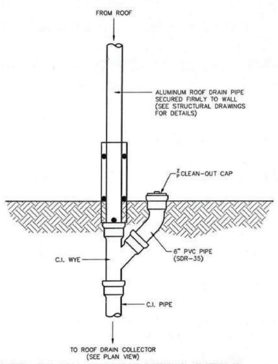
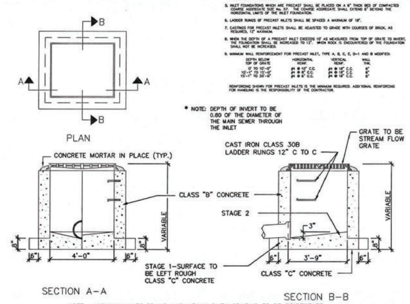


ROOF DRAIN CONNECTION DETAIL

N.T.S.



NOTES:

1. THIS INLET MAY BE CONSTRUCTED OF 8" THK. BRICK, 8" THK. CONCRETE BLOCK OR 6" THK. PRECAST CONCRETE (CLASS "B"). IF BRICK OR CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE.
2. CORBELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF 1/2" PER 8" OF HEIGHT; MAXIMUM CORBEL 6" PER WALL.
3. FOUNDATIONS AND INVERTS SHALL BE CONSTRUCTED IN TWO STAGES, AND THE BOTTOM OF THE FOOTINGS SHALL BE 8" BELOW THE OUTER WALL OF THE LOWEST PIPE IN THE INLET.
4. WHEN THE DEPTH OF AN INLET THAT IS NOT PRECAST EXCEEDS 10' AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8' SHALL BE 12" THICK AND THE DEPTH OF FOUNDATION INCREASED TO 12". WHEN ROCK IS ENCOUNTERED THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
5. INLET FOUNDATIONS WHICH ARE PRECAST SHALL BE PLACED ON A 6" THICK BED OF COMPACTED COARSE AGGREGATE SIZE No. 57. THE COARSE AGGREGATE SHALL EXTEND 6" BEYOND THE HORIZONTAL LIMITS OF THE INLET FOUNDATION.
6. LADDER RUNGS OF PRECAST INLETS SHALL BE SPACED A MAXIMUM OF 18".
7. CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12" MAXIMUM.
8. WHEN THE DEPTH OF A PRECAST INLET EXCEEDS 10' AS MEASURED FROM TOP OF GRATE TO INVERT, THE FOUNDATION SHALL BE INCREASED TO 12". WHEN ROCK IS ENCOUNTERED OF THE FOUNDATION SHALL NOT BE INCREASED.
9. MINIMUM WALL REINFORCEMENT FOR PRECAST INLET, TYPE A, B, C, E, D-1 AND B MODIFIED:

DEPTH BELOW TOP OF GRATE	HORIZONTAL REINF.	VERTICAL REINF.	WALL THK.
0' TO 10'-0"	#4 @ 10" C.C.	#4 @ 18" C.C.	6"
10'-1" TO 15'-0"	#4 @ 8" C.C.	#4 @ 18" C.C.	6"
15'-1" TO 20'-0"	#4 @ 6" C.C.	#4 @ 18" C.C.	6"

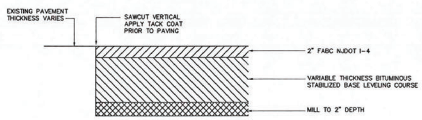
REINFORCING SHOWN FOR PRECAST INLETS IS THE MINIMUM REQUIRED. ADDITIONAL REINFORCING FOR HANDLING IS THE RESPONSIBILITY OF THE CONTRACTOR.

* NOTE: DEPTH OF INVERT TO BE 0.80 OF THE DIAMETER OF THE MAIN SEWER THROUGH THE INLET

NOTE: HIGHWAY INLET FRAME AND HEAVY DUTY GRATING TO BE BRIDESTATE FOUNDRY PATTERN No. 3425 DUCTILE IRON; CAPABLE OF WITHSTANDING 101,000 LB. LOAD OR APPROVED EQUAL.

TYPE E INLET

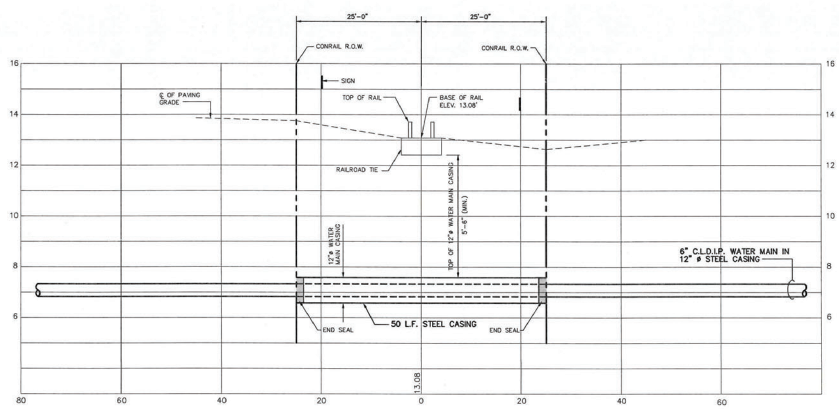
N.T.S.



BUILDING INTERIOR AND EXTERIOR

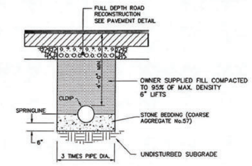
MILL/OVERLAY PAVEMENT DETAIL

N.T.S.



CONRAIL UTILITY CROSSING CROSS SECTION

SCALE: HORIZ: 1"=10' VERT: 1"=2'

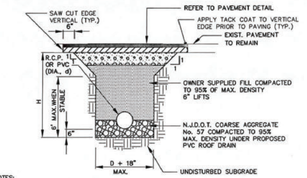


NOTES:

1. THE ENGINEER SHALL DETERMINE WHETHER THE EXCAVATED MATERIAL IS SUITABLE FOR BACKFILL.
2. ALL EXCAVATED MATERIALS FROM THE UTILITY TRENCH SHALL BE STOCKPILED A MINIMUM DISTANCE EQUAL TO THE TRENCH DEPTH FROM THE TRENCH WALL.
3. PROVIDE BRACING, SHEETING AND OTHER TRENCH STABILIZATION METHODS AS REQUIRED.
4. PROVIDE DEWATERING AS REQUIRED. DIRECT DISCHARGE TO STORM DRAINAGE SYSTEM.(SEE SHT. C5 FOR DETAIL)

WATER MAIN INSTALLATION

N.T.S.



NOTES:

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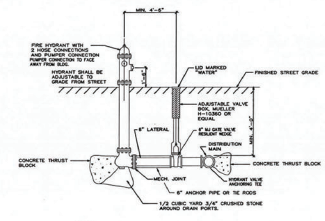
2. ALL EXCAVATED MATERIALS FROM THE UTILITY TRENCH SHALL BE STOCKPILED A MINIMUM DISTANCE EQUAL TO THE TRENCH DEPTH FROM THE TRENCH WALL.
3. PROVIDE BRACING, SHEETING AND OTHER TRENCH STABILIZATION METHODS AS REQUIRED.
4. PROVIDE DEWATERING AS REQUIRED. DIRECT DISCHARGE TO STORM DRAINAGE SYSTEM.

STORM SEWER INSTALLATION

N.T.S.

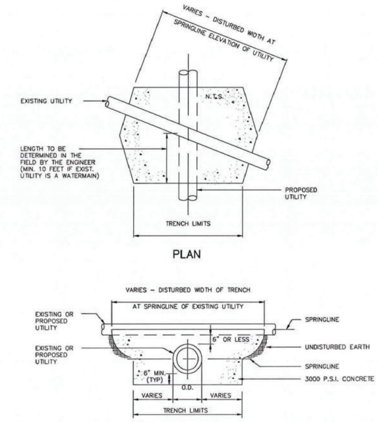


NOTE:

FIRE HYDRANT MODEL NUMBER SHALL BE COORDINATED WITH SOUTH JERSEY PORT CORP. AND CITY OF CAMDEN FIRE DEPARTMENT.

FIRE HYDRANT DETAIL

N.T.S.



NOTE:

WHERE A PROPOSED UTILITY WILL CROSS UNDER OR OVER AN EXISTING SANITARY SEWER, STORM DRAIN OR OTHER UTILITY AND WHERE THE MINIMUM DISTANCE BETWEEN THEM IS 6" OR LESS, THE ENGINEER MAY REQUIRE A CONCRETE CRADLE TO THE SPRINGLINE OF THE UPPER PIPE. THE WIDTH OF THE CRADLE SHALL BE EQUAL TO THE ACTUAL EXCAVATED WIDTH OF THE TRENCH (6" BELOW THE LOWER PIPE) AND VARIES TO THE DISTURBED TRENCH WIDTH AT THE SPRINGLINE OF THE UPPER PIPE. THE LENGTH VARIES AND IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALLOW CONCRETE TO CURE 24 HOURS BEFORE BACKFILLING. NO SEPARATE PAYMENT WILL BE MADE FOR CONCRETE CRADLES AND THE COST OF CONCRETE CRADLES SHALL BE INCLUDED IN THE UNIT PRICE OF THE PROPOSED UNDERGROUND UTILITIES.

CONCRETE CRADLE DETAIL

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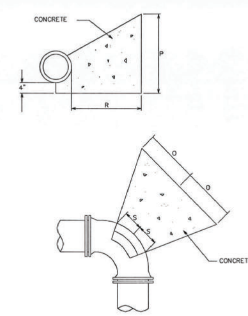
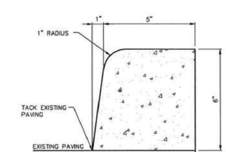


PIPE SIZE	R	P	O	S
6"	20"	12"	12"	6"
8"	20"	16"	16"	6"
10"	20"	21"	20"	9"
12"	20"	27"	22"	10"
14"	21"	30"	27"	12"

CONCRETE THRUST BLOCK

N.T.S.



BITUMINOUS CURB DETAIL

N.T.S.

SITE DETAILS

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS CAMDEN, NEW JERSEY 08104

drawn JDH | designed | checked | approved

JCA Associates, Inc.

CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS
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MOORESTOWN, NJ 08057 (856)722-6700

revisions: no. | date | by

Edwin J. Steck

N.J. PROFESSIONAL ENGINEER No. 29129

date 8/11/00 | job no. SJPC-00300 | dwg no. C8

scale AS NOTED | file no. BB-1636

14 of 19

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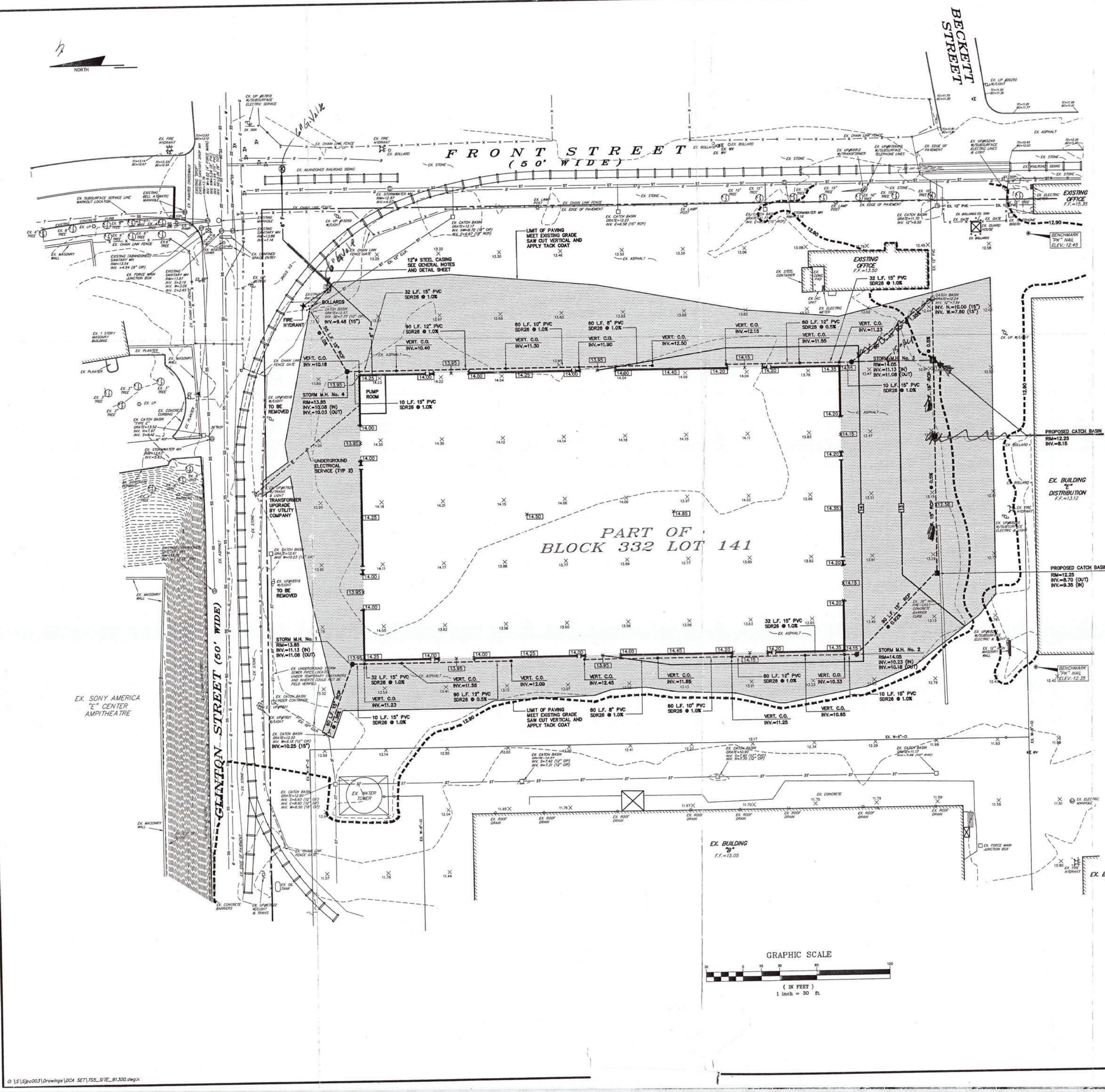

DELAWARE RIVER ESTUARY DATUM CHART

PROVIDED BY ARMY CORPS ENGINEERS AUGUST 1980 ANALYSIS AT THE PHILADELPHIA TIDE GAGE, US ARMY COE DATUM

100 YR RECURRENCE INTERVAL	12.90
50 YR RECURRENCE INTERVAL	12.10
10 YR RECURRENCE INTERVAL	10.50
2 YR RECURRENCE INTERVAL	9.50
1 YR. RECURRENCE INTERVAL	8.70
MEAN DAILY HIGH	6.60
MEAN DAILY LOW	0.50

NOTE

1. ELEVATIONS BASED ON US ARMY CORPS OF ENGINEERS DATUM. TO CONVERT TO USGS DATUM, SUBTRACT 2.90 FT. FROM USCOE ELEVATIONS SHOWN.

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER MAIN TO BE REMOVED
- EXISTING ELECTRIC LINE
- EXISTING STORM AND INLET
- PROPOSED STORM AND MANHOLE
- 12.90 — 100 YEAR FLOOD ELEVATION
- 10.10 — PROPOSED SPOT ELEVATION
- 10 — PROPOSED CONTOUR
- +10.16 — EXISTING SPOT ELEVATION
- 14 — EXISTING CONTOUR

PROVIDED BY ANVIL CONSTRUCTION

"AS-BUILT":
UTILITIES AS installed by SERMALI Contractors Inc.
Prepared by: VGK 3/8/01

REV.	DATE	APPROVED	DESCRIPTION
1	9-13-00		ADDED FLOODPLAIN LIMITS

GRADING & UTILITY PLAN

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

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Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 25025

drawn	designed	checked	date	scale	job no.	file no.	dwg no.
JDH	BAM	[illegible]	8/11/00	1"=30'	SJPC-00300	88-1634	C6

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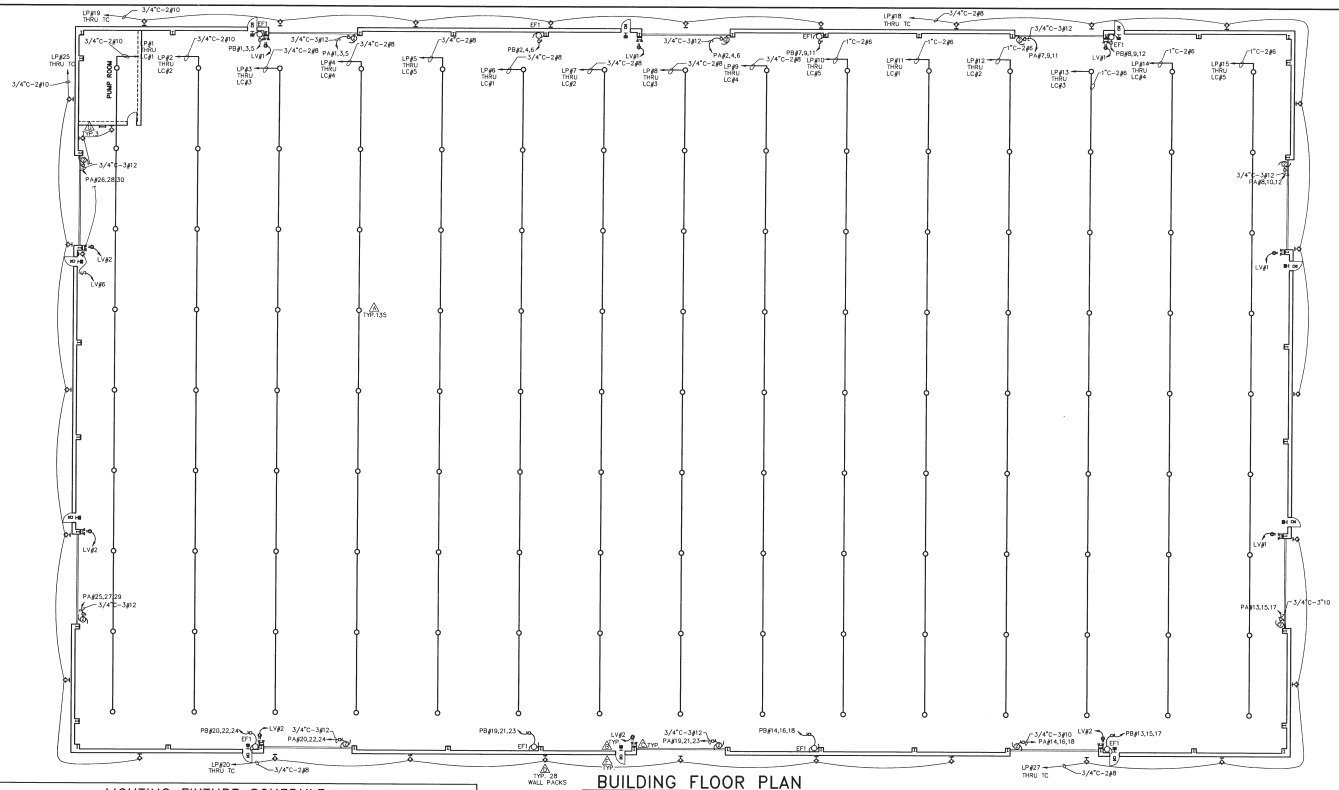


BUILDING FLOOR PLAN

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

PANEL NO. LP	LOCATION: PUMP ROOM	VOLTAGE: 277/480
FRAME RATING 225A F	MAIN BKR. RATING: 175A MCB	PHASE 3ø, 4W

DESCRIPTION: NEHB PANELBOARD, SURFACE MTD., NEMA 1 ENCLOSURE, 30 CKT.

SIZE B	SIZE W	CIRCUIT DESCRIPTION	LOAD	P/P	LOAD	CIRCUIT DESCRIPTION	SIZE B	SIZE W
20	10	HI-BAY LIGHTING	5298	1	2	5298 HI-BAY LIGHTING	20	10
20	8	HI-BAY LIGHTING	5298	3	4	5298 HI-BAY LIGHTING	20	8
20	8	HI-BAY LIGHTING	5298	5	6	5298 HI-BAY LIGHTING	20	8
20	8	HI-BAY LIGHTING	5298	7	8	5298 HI-BAY LIGHTING	20	8
20	8	HI-BAY LIGHTING	5298	9	10	5298 HI-BAY LIGHTING	20	6
20	6	HI-BAY LIGHTING	5298	11	12	5298 HI-BAY LIGHTING	20	6
20	6	HI-BAY LIGHTING	5298	13	14	5298 HI-BAY LIGHTING	20	6
20	6	HI-BAY LIGHTING	5298	15	16	--- SPARE	20	–
20	6	DEDICATED CIRCUIT – EXIT/EM. LTG.	1000	17	18	3532 WALL PACKS	20	8
20	10	WALL PACKS	3532	19	20	3532 WALL PACKS	20	8
20	12	MINI POWER CENTER/PNL. 'LV'	5000	21	22	780 PUMP ROOM LIGHTING	20	12
20	12	" " "	---	23	24	5000 PUMP ROOM UNIT HEATER	15	12
20	10	WALL PACKS	3532	25	26	--- " "	15	12
20	8	WALL PACKS	2355	27	28	--- " "	15	12
20	–	SPARE	---	29	30	--- SPARE	20	–

PANEL NO. LV	LOCATION: PUMP ROOM	VOLTAGE: 120/240
FRAME RATING ———	MAIN BKR. RATING: ———	PHASE 1ø, 3W

DESCRIPTION: MINI POWER CENTER, SQ.'D' #MPZ5S40F, 6 CKT., W/480:120/240 XFMR.

	SIZE B	SIZE W	CIRCUIT DESCRIPTION	LOAD	P/P	LOAD	CIRCUIT DESCRIPTION	SIZE B	SIZE W	
*	20	8	CONVENIENCE RECEPTACLES	900	1	2	900 CONVENIENCE RECEPTACLES	20	8	*
	20	12	CONVENIENCE RECEPTACLES	1080	3	4	250 FIRE ALARM PANEL	20	12	
	20	12	EXHAUST FAN/MOTORIZED LOUVER	500	5	6	300 ACCESS LTG., L.C. CONTROLS	20	12	

*GFCI TYPE CIRCUIT BREAKER.

PANEL NO. PB	LOCATION: PUMP ROOM	VOLTAGE: 277/480
FRAME RATING 100 AF	MAIN BKR. RATING: 100A MCB	PHASE 3ø, 4W

DESCRIPTION: NEHB PANELBOARD, SURFACE MTD., NEMA 1 ENCLOSURE, 42 CKT.

SIZE B	SIZE W	CIRCUIT DESCRIPTION	LOAD	P/P	LOAD	CIRCUIT DESCRIPTION	SIZE B	SIZE W
15	12	EF1, 1.5 HP, 3.0 FLA	3114	1	2	3114 EF 1, 1.5 HP, 3.0 FLA	15	12
15	12	" "	---	3	4	--- " "	15	12
15	12	" "	---	5	6	--- " "	15	12
15	12	EF1, 1.5 HP, 3.0 FLA	3114	7	8	3114 EF 1, 1.5 HP, 3.0 FLA	15	12
15	12	" "	---	9	10	--- " "	15	12
15	12	" "	---	11	12	--- " "	15	12
15	12	EF1, 1.5 HP, 3.0 FLA	3114	13	14	3114 EF 1, 1.5 HP, 3.0 FLA	15	12
15	12	" "	---	15	16	--- " "	15	12
15	12	" "	---	17	18	--- " "	15	12
15	12	EF1, 1.5 HP, 3.0 FLA	3114	19	20	3114 EF 1, 1.5 HP, 3.0 FLA	15	12
15	12	" "	---	21	22	--- " "	15	12
15	12	" "	---	23	24	--- " "	15	12
20	12	AIR COMPRESSOR #1, 5 HP, 7.6 FLA	7889	25	26	7889 AIR COMPRESSOR #2, 5 HP, 7.6 FLA,	15	12
20	12	" "	---	27	28	--- " "	15	12
20	12	" "	---	29	30	--- " "	15	12
20	12	AIR COMPRESSOR #3, 5HP, 7.6 FLA	7889	31	32	--- SPARE – 1POLE	20	–
20	12	" "	---	33	34	--- "	20	–
20	12	" "	---	35	36	--- "	20	–
15	–	SPARE – 3POLE	---	37	38	--- "	20	–
15	–	"	---	39	40	--- "	20	–
15	–	"	---	41	42	--- "	20	–

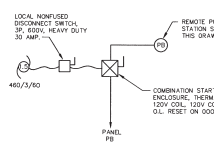
PANEL NO. PA	LOCATION: PUMP ROOM	VOLTAGE: 277/480
FRAME RATING 100 AF	MAIN BKR. RATING: 60A MCB	PHASE 3ø, 4W

DESCRIPTION: NEHB PANELBOARD, SURFACE MTD., NEMA 1 ENCLOSURE, 30 CKT.

SIZE B	SIZE W	CIRCUIT DESCRIPTION	LOAD	P/P	LOAD	CIRCUIT DESCRIPTION	SIZE B	SIZE W
15	12	O.H. DOOR, 2 HP, 3.4 FLA	3530	1	2	3530 O.H. DOOR, 2 HP, 3.4 FLA	15	12
15	12	" "	---	3	4	--- " "	15	12
15	12	" "	---	5	6	--- " "	15	12
15	12	O.H. DOOR, 2 HP, 3.4 FLA	3530	7	8	3530 O.H. DOOR, 2 HP, 3.4 FLA	15	12
15	12	" "	---	9	10	--- " "	15	12
15	12	" "	---	11	12	--- " "	15	12
15	10	O.H. DOOR, 2 HP, 3.4 FLA	3530	13	14	3530 O.H. DOOR, 2 HP, 3.4 FLA	15	10
15	10	" "	---	15	16	--- " "	15	10
15	10	" "	---	17	18	--- " "	15	10
15	12	O.H. DOOR, 2 HP, 3.4 FLA	3530	19	20	3530 O.H. DOOR, 2 HP, 3.4 FLA	15	12
15	12	" "	---	21	22	--- " "	15	12
15	12	" "	---	23	24	--- " "	15	12
15	12	O.H. DOOR, 2 HP, 3.4 FLA	3530	25	26	3530 O.H. DOOR, 2 HP, 3.4 FLA	15	12
15	12	" "	---	27	28	--- " "	15	12
15	12	" "	---	29	30	--- " "	15	12

LIGHTING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER	MODEL No.	LAMPS No.	LAMPS WATTS	TYPE	MOUNTING	REMARKS
A	AMERICAN ELECTRIC	HS400B10HR22	1	400	HPS	PENDANT	MOUNT TO UNDERSIDE OF ROOF TO PROVIDE MAX. MTG. HEIGHT POSSIBLE
B	LIGHTALARMS	LIXQELR	–	2	LED	WALL	EXIT SIGN ABOVE MANDOOR.
C	LIGHTALARMS	2P12X2/LH3-M	2	12	HALOGEN	WALL, 15" AFF	TOK TIME DELAY, EMERGENCY LIGHT
D	AMERICAN ELECTRIC	B82-0H440	1	400	HPS	WALL, 23.5' OR 26.5' AS NOTED ON ST1.	TIME CLOCK CONTROLLED W/WIRE GUARD. # B82-WG
E	METALLUX	AVTL2320R277EB18	2	32	FLUOR.	CEILING	
F	LIGHTALARMS	ELF622D/12V/L12	2	12	INCAN.	WALL	REMOTE HEAD
G	STONCO	VWL28NFL-1	1	28-DBX	FLUOR	WALL	-20°F STARTING



EF 1 WIRING DIAGRAM

N.T.S.

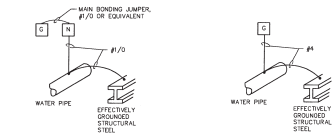
LIGHTING CONTACTOR (L.C.) NO.	TO CONTROL HI-BAY LIGHTING ROW NO.
1	1,6,11
2	2,7,12
3	3,8,13
4	4,9,14
5	5,10,15

NOTE: LIGHTING CONTACTORS (TYP. 5) SHALL BE ELECTRICALLY HELD, 30 AMP, NEMA 1 ENCL, 120V COIL, 277 VOLT LOAD.

NOTE: ALL RACEWAYS SHALL BE RUN @ THE CEILING. RACEWAYS DROPPING TO SERVE EQUIPMENT OR DEVICES DESIRED TO BE ACCESSIBLE AT THE FLOOR LEVEL SHALL BE CONCEALED AT A STEEL COLUMN LINE SO AS TO FURTHER PROTECT FROM PHYSICAL DAMAGE.

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
4. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS IN THE BID DOCUMENTS AND WORK PERFORMED BY OTHERS. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING COMPLETE AND OPERATIONAL SYSTEMS IN ACCORDANCE WITH PERFORMANCE REQUIREMENTS.
5. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNER'S AGENTS.
6. CONTRACTOR TO MAKE ALL ELECTRICAL CONNECTIONS TO EQUIPMENT SUPPLIED BY OTHERS.
7. NO WIRE SHALL BE SMALLER THAN #12 AWG, EXCEPT CONTROL AND SIGNAL CIRCUITS MAY BE RUN WITH #14 AWG. NO CONDUIT SHALL BE SMALLER THAN 3/4" ELECTRICAL TRADE SIZE.
8. HOME RUN CIRCUITS MORE THAN 75 FEET FROM THE PANELBOARD SHALL BE MADE WITH #10 AWG OR LARGER AS REQUIRED TO LIMIT VOLTAGE DROP TO 2% MAXIMUM.
9. RELOCATE EXISTING CIRCUITS AS REQUIRED.
10. ALL CONDUCTORS SHALL BE COPPER W/75 C INSULATION OR GREATER.
11. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
12. THE SHORT-CIRCUIT CURRENT RATINGS OF ALL ELECTRICAL EQUIPMENT SHALL BE EQUAL TO OR GREATER THAN THE AVAILABLE SHORT-CIRCUIT CURRENT PER SPECIFICATION SECTIONS 16470 AND 16475, AND NEC 110-9.
13. IN ACCORDANCE WITH SPECIFICATION SECTION 16110, THE WIRING METHOD SHALL BE:
    A. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
       1. EXPOSED: GALVANIZED RIGID STEEL CONDUIT.
       2. CONCEALED: GALVANIZED RIGID STEEL CONDUIT.
       3. UNDERGROUND, SINGLE RUN: RIGID NONMETALLIC CONDUIT.
       4. UNDERGROUND, GROUPED: RIGID NONMETALLIC CONDUIT.
       5. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
       6. INDOORS OR OUTDOORS: CONNECTION TO VIBRATING EQUIPMENT AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT IN MOIST OR HUMID LOCATION OR CORROSIVE ATMOSPHERE, OR WHERE SUBJECT TO WATER SPRAY OR DRIPPING OIL, GREASE, OR WATER: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
    B. INDOORS: USE THE FOLLOWING WIRING METHODS:
       1. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-OPERATED EQUIPMENT: FLEXIBLE METAL CONDUIT.
       2. PUMP ROOM EXPOSED: INTERMEDIATE OR GALVANIZED RIGID STEEL CONDUIT.
       3. GENERAL FLOOR AREA EXPOSED: GALVANIZED RIGID STEEL CONDUIT.
       4. CONCEALED: ELECTRICAL METALLIC TUBING, OR GALVANIZED RIGID STEEL CONDUIT



ELECTRICAL SERVICE #1 (BUILDING LOADS)

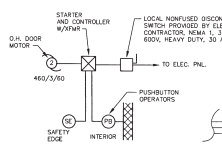
NOT TO SCALE

ELECTRICAL SERVICE #2 (FIRE PUMP)

NOT TO SCALE

GROUNDING DETAILS

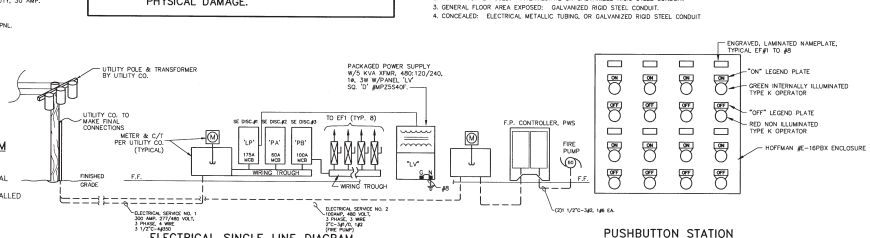
NOT TO SCALE



O.H. DOOR WIRING DIAGRAM

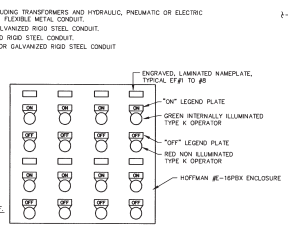
N.T.S.

NOTE: UNLESS OTHERWISE NOTED ALL ELECTRICAL DOOR COMPONENTS SHALL BE SUPPLIED BY O.H. DOOR MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR.



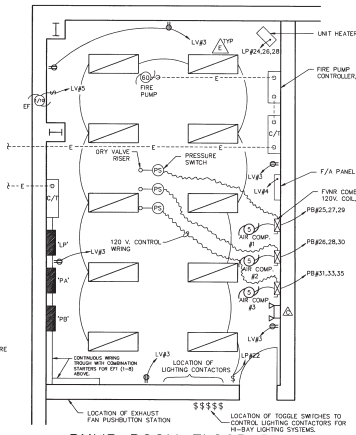
ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.



PUSHBUTTON STATION

(TYPICAL FOR EF1)



PUMP ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"

LEGEND

- DUPLEX RECEPTACLE
- COMBINATION MOTOR STARTER, CB TYPE
- NONFUSED DISCONNECT SWITCH
- GROUND FAULT CIRCUIT INTERRUPTER
- TOGGLE SWITCH
- EXIT SIGN
- LIGHTING FIXTURE TYPE 'X' SEE SCHEDULE
- EMERGENCY LIGHTING UNIT
- MOTOR
- REMOTE HEAD (2 LAMP)
- EXTERIOR LIGHT

ELECTRICAL PLAN

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

JCA Associates, Inc.
CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS
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revisions no.	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 29139

DATE 8/11/00

drawn	designed	checked	approved	scale
JDH				AS NOTED

job no. SJPC-00300
file no. BB-1641
dwg no. E2

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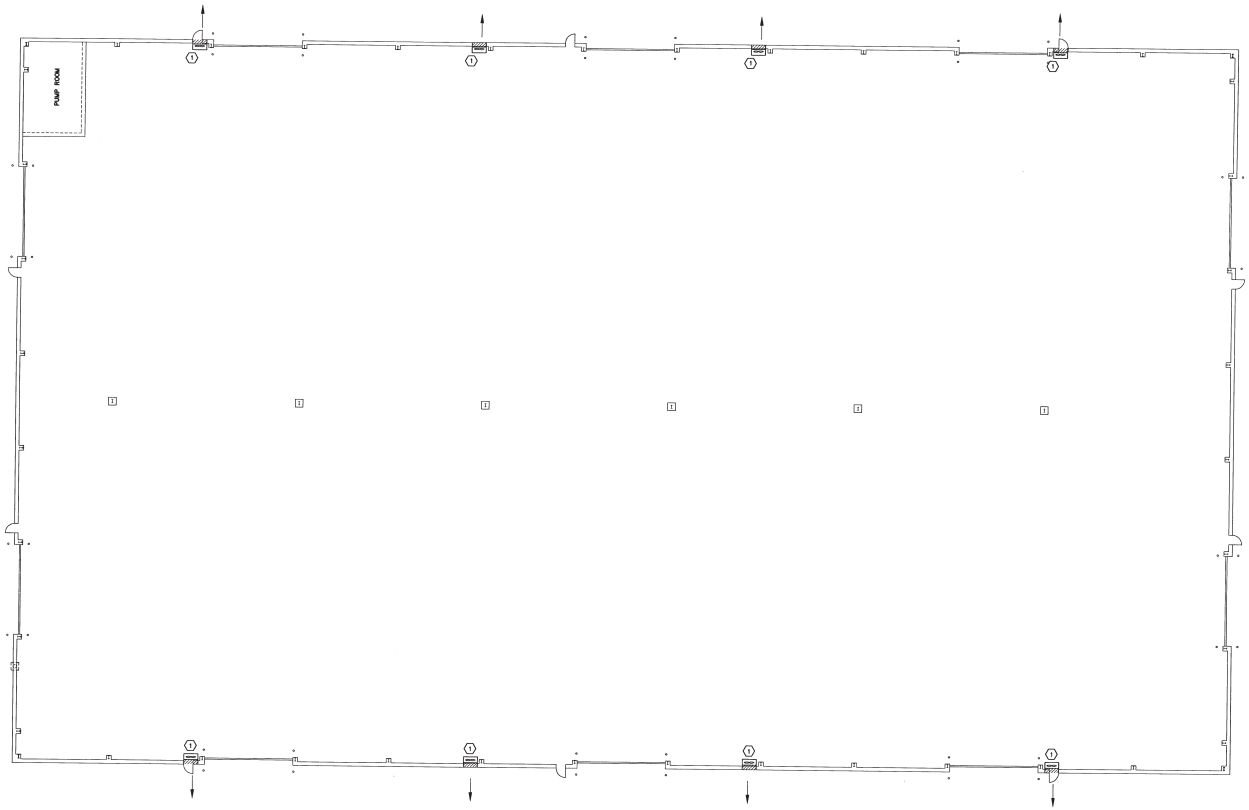
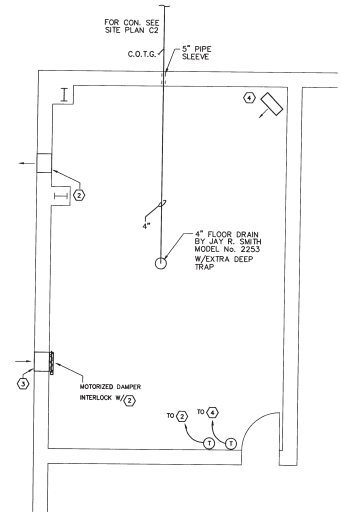


BUILDING FLOOR PLAN

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

NOTE: REFER TO ST DRAWINGS FOR PILE CAP LOCATIONS

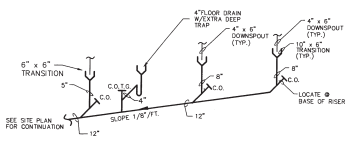


PUMP ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"

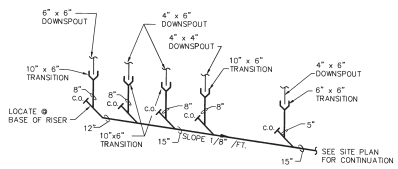
MECHANICAL EQUIPMENT SCHEDULE

1. EXHAUST FAN; PENN VENTILATOR CO. MODEL NO. BHM48, 20,900 CFM @0.125 IN. W.G. E.S.P., 1-1/2 HP, 480V/3ø/60HZ, BELT DRIVE, WALL SHUTTERS TYPE 'WS' (GRAVITY), BACK GUARD & BIRDSCREEN.
2. EXHAUST FAN; PENN VENTILATOR CO. MODEL TD ZEPHYR Z10 (WALL INSTALLATION), 320 CFM @ 0.125 IN. W.G. E.S.P. 1/10 HP, 115V/1ø/60HZ, WALL CAP MODEL NO. SL20, AND WALL MTD. THERMOSTAT, MODEL NO. 2E340 BY DAYTON.
3. OUTSIDE AIR INTAKE LOUVER – PENN VENTILATOR CO. MODEL NO. MO4, 18"x18" LOUVER W/MOTORIZED DAMPER AND BIRDSCREEN.
4. ELECTRIC UNIT HEATER – TRANE MODEL NO. UHEC 053DACA, WALL MOUNTED, 17100 BTUH, 5 KW, 480V/3ø/60HZ, 400 CFM. HORIZONTAL DISCHARGE AND WALL MOUNTED ROOM THERMOSTAT.



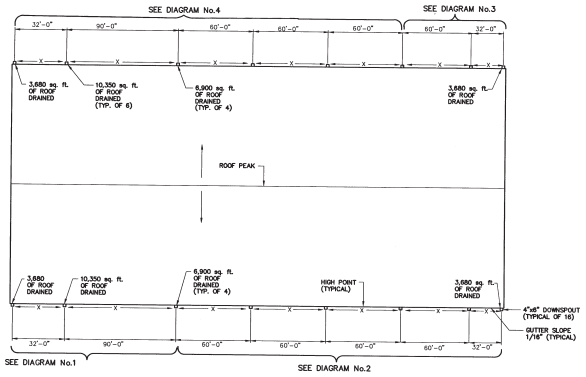
STORM & WASTE DRAINAGE PIPING DIAGRAM No.1

N.T.S.



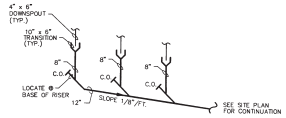
STORM DRAINAGE PIPING DIAGRAM No.2

N.T.S.



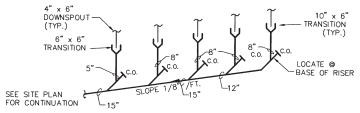
MECHANICAL GENERAL NOTES

1. ALL WORK TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND REGULATIONS GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS & APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
4. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON THE DRAWINGS.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.
6. CONTRACTOR SHALL PROVIDE AND INSTALL DISCONNECT SWITCHES ON INDOOR UNITS.
7. ALL EXTERIOR WALL OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO ROOMS.
8. EXHAUST FANS TO BE INSTALLED BY THIS CONTRACTOR, INCLUDING ALL DUCTWORK, BACK DRAFT DAMPERS, CAPS, SCREENS AND RELATED HARDWARE TO PROVIDE EXHAUST TO EXTERIOR OF BUILDING.
9. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
10. ALL STORM DRAINAGE PIPING SHALL BE SLOPE 1/8" PER FT.
11. ALL STORM DRAINAGE AND WASTE PIPING SHALL BE PVC, SDR 26 TYPE.



STORM DRAINAGE PIPING DIAGRAM No.3

N.T.S.



STORM DRAINAGE PIPING DIAGRAM No.4

N.T.S.

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LEONARD SILVER & ASSOCIATES, INC.
P.O. BOX 2635
CHERRY HILL, NEW JERSEY 08003
Tel: (856)-429-1223 Fax:(856)-428-1959

LEONARD R. SILVER, P.E.
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1256 NORTH CHURCH STREET, SUITE 3
MOORESTOWN, NJ 08057 (856)722-6700

MECHANICAL PLAN

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

drawn	designed	checked	approved
RFK			

revisions		
no.	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 28129
DATE _____

date	job no.	dwg no.
8/11/00	SJPC-00300	M2
scale AS NOTED	file no. BB-1639	17 of 19

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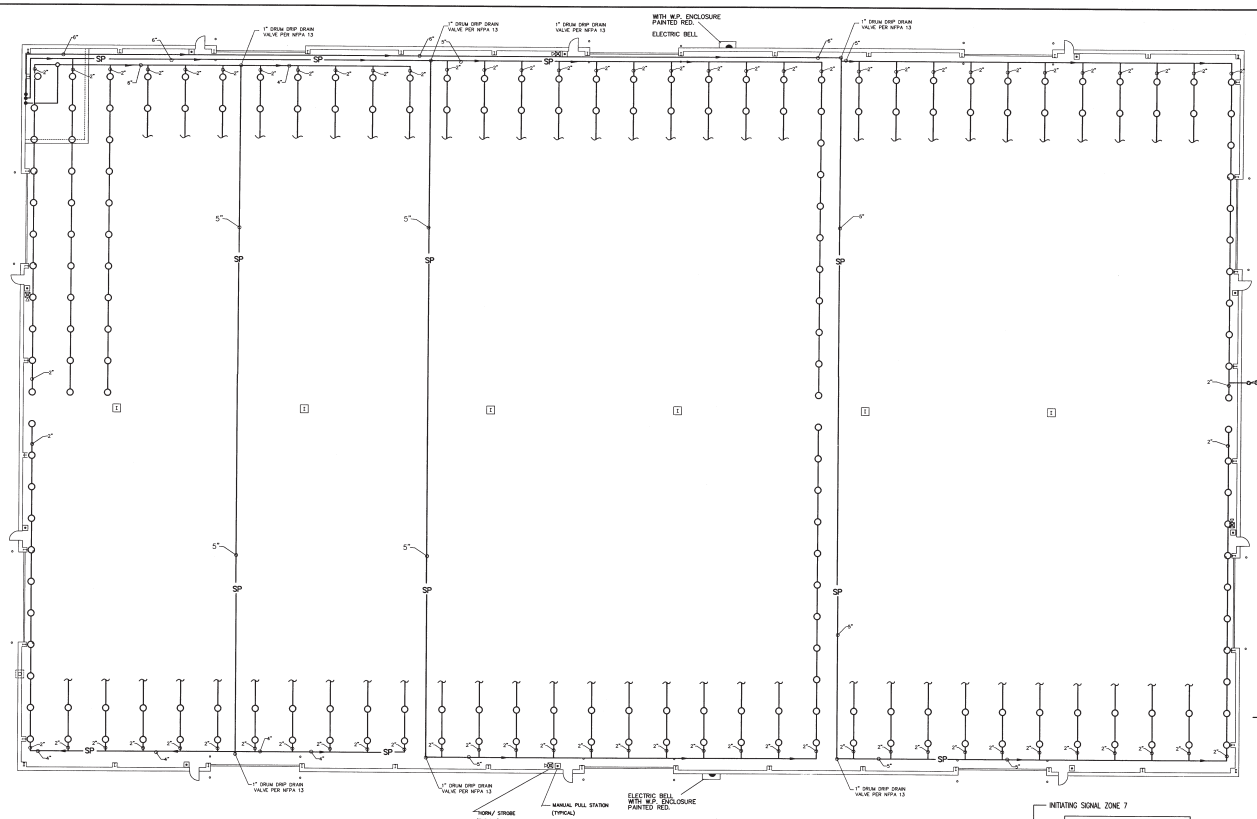
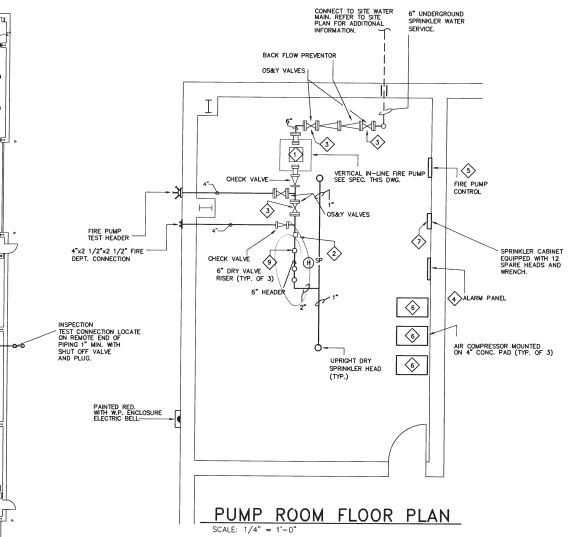


BUILDING FLOOR PLAN

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

NOTE: REFER TO ST DRAWINGS FOR PILE CAP LOCATIONS

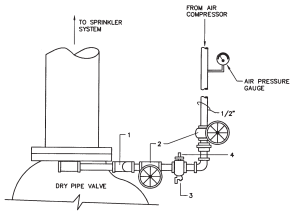


PUMP ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"

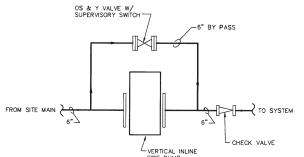
LEGEND

E.O.L.	END OF LINE
B	ELECTRIC BELL
H	HEAT SENSOR
SP	SPRINKLER PIPING
	SPRINKLER HEAD, UPRIGHT, DRY
WF	WATER FLOW SENSOR
T	TAMPER SWITCH



AUTOMATIC AIR COMPRESSOR CONNECTION DIAGRAM

N.T.S.



VERTICAL FIRE PUMP BY PASS DIAGRAM

N.T.S.

NOTE:

ALL PIPING AND SPRINKLER HEADS SHALL BE RUN TIGHT ALONG UNDERSIDE OF ROOF. NO PIPING OR HEADS SHALL BE LOCATED BELOW STEEL MEMBERS.

SPRINKLER DESIGN SPECIFICATIONS

1. SPRINKLER SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE LATEST N.F.P.A. NO. 13 & 20.
2. SYSTEM: DRY
   HAZARD: ORDINARY GROUP II
   SPACING: 130 @/HEAD
   PIPING SIZING: HYDRAULIC
3. ALL HANGERS & LOCATIONS TO BE IN ACCORDANCE WITH THE LATEST N.F.P.A. NO. 13.
4. WATER DATA REQUIRED: SUPPLY PER NFPA 13. CONTRACTOR TO CONFIRM EXISTING WATER SUPPLY.
5. ALL PIPES SHALL BE SCHEDULE 40.
6. TOTAL SPRINKLER HEADS = 728
7. DESIGN DATA: MOST HYDRAULICALLY REMOTE 1950 S.F. @ .20 GPM/FT2 DENSITY

FIRE PROTECTION NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH N.F.P.A CODES, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
4. CONTRACTOR SHALL CONDUCT A SITE SURVEY AND VERIFY ACTUAL CONDITIONS.
5. DO NOT SCALE THIS DWG. FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
6. PROVIDE 3500 PSI CONCRETE PAD FOR FIRE PUMP MIN 12" OVERHANG ON ALL SIDES OF PUMP BASE. HEIGHT SHALL BE DETERMINED BY PIPE ELEVATION.

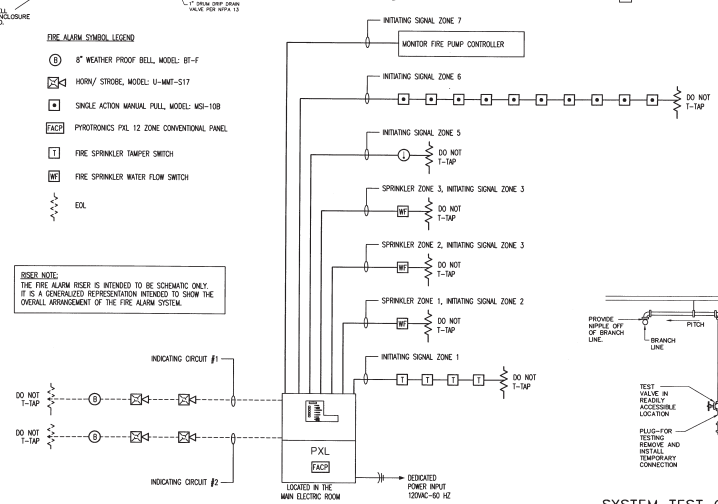
FIRE PROTECTION SYSTEM EQUIPMENT SCHEDULE

1. VERTICAL IN-LINE FIRE PUMP – PEERLESS PUMP CO. MODEL NO. 5FVF11M, 500 GPM, 125 PSI, 63.5 BHP, 60 HP., 3550 RPM, UL, ULC & FM APPROVED.
2. WATER FLOW SWITCH; POTTER ELECTRIC SIGNAL CO. MODEL NO. USR-F SIZE ACCORDINGLY.
3. OUTSIDE SCREW AND YOKE SUPERVISORY SWITCH; POTTER ELECTRIC SIGNAL CO. MODEL NO. OSYSU, SIZE ACCORDINGLY.
4. THE FIRE ALARM CONTROL PANEL; CERBERUS PYROTRONICS PXL, SHALL UTILIZE CONVENTIONAL ZONES, SHALL BE MICROPROCESSOR BASED AND FULLY FIELD PROGRAMMABLE. THE BASE PANEL SHALL INCLUDE 12 INITIATING ZONES, RELAY OUTPUTS FOR GENERAL ALARM AND TROUBLE AND TWO POWER LIMITED INDICATING CIRCUITS CAPABLE OF A TOTAL OF 6 AMPS OF POWER FOR INDICATING APPLIANCES. THE SYSTEM SHALL BE EXPANDABLE VIA A MODEL PZE-48 EXPANDER BOARD WHICH SHALL CONTAIN AN ADDITIONAL 4 CONVENTIONAL ZONES, 4 GENERAL PURPOSE RELAY OUTPUTS AND 4 GENERAL PURPOSE OPEN COLLECTOR OUTPUTS. THE FIRE ALARM SYSTEM SHALL HAVE THE FOLLOWING FEATURES: SUBSEQUENT ALARM AND TROUBLE, WALK TEST FEATURE, BROWN OUT PROTECTION, 24 HOUR BATTERY BACKUP IN STANDBY MODE (5 MIN. OPERATION MODE). THE FOLLOWING SELECTABLE FEATURES: SUPERVISORY ZONES, ALARM VERIFICATION BY ZONE, NON-LATCHING ZONE, ALARM, TROUBLE AND SUPERVISORY HISTORY (150 EVENT), INDICATING CIRCUIT CODING, NON-SILENCEABLE ALARM, SELECTABLE ALARM/TROUBLE REMINDER (UP TO 24 HOURS), 80 LCD CHARACTER DISPLAY, FIELD PROGRAMMABLE, AND ZONE/OUTPUT BYPASS. ANY INITIATING DEVICE ZONE SHALL HAVE THE CAPABILITY OF BEING MAPPED TO ANY OPTIONAL OUTPUT VIA THE SYSTEM PROGRAMMING FUNCTION. THE FIRE ALARM CONTROL PANEL SHALL BE UL/ULC LISTED AND MEET THE REQUIREMENTS OF NFPA 72 FOR LOCAL, AUXILIARY, REMOTE STATION (PROTECTED PREMISES) FIRE ALARM CONTROL FOR AUTOMATIC OR MANUAL SERVICE, AND FOR SPRINKLER SUPERVISORY WATERFLOW SERVICES. IT SHALL MEET NFPA 71 REQUIREMENTS FOR CENTRAL STATION SERVICE WHEN CONNECTED TO A LISTED DIGITAL COMMUNICATOR.
5. FIRE PUMP CONTROL PANEL; JOSLYN CLARK ELECTRIC MAIN FIRE PUMP CONTROLLER MODEL NO. C10670 PART-WINDING TYPE 480V/3Ø. FLOOR MTD., W/CONCRETE PAD, & 6" HIGH, W/6" MIN. ALL SIDES.
6. AIR COMPRESSOR – GENERAL BLOWER CO. MODEL NO. L2000-500B, 5 HP. 910 RPM, 480V/3Ø, 11.9 CFM AND PRESSURE SWITCH-CENTRAL SPRINKLER MODEL NO. PS10A.
7. SPRINKLER HEAD CABINET; CENTRAL SPRINKLER CO. 12 SPRINKLER HEADS CAPACITY W/WRENCH.
8. SPRINKLER HEADS; CENTRAL SPRINKLER CO. MODEL NO. GB BRASS UPRIGHT, 175° F, 1/2" ORIFICE, 1/2" THREAD.
9. DRY PIPE VALVE – CENTRAL SPRINKLER CO. MODEL NO. AG, 6" DRY PIPE VALVE, 175 PSI MAX. WORKING PRESSURE, W/ACCELERATOR – CENTRAL SPRINKLER CO. MODEL B (PART NO. 21370 & TRIM PART NO 21371).
10. LOCATION OF SPRINKLER HEADS AND PIPE SIZE IS GENERAL IN NATURE. CONTRACTOR SHALL CONFIRM ENTIRE SPRINKLER SYSTEM WITH HYDRAULIC CALCULATIONS.
11. PROVIDE SINGLE ACTION MANUAL PULL STATIONS WITHIN 5 FT. OF EACH POINT OF EGRESS.

FIRE ALARM SYMBOL LEGEND

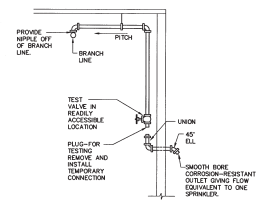
B	6" WEATHER PROOF BELL, MODEL: BT-F
	HORN/ STROBE, MODEL: U-WMT-S17
	SINGLE ACTION MANUAL PULL, MODEL: MSI-10B
FACP	PYROTRONICS PXL 12 ZONE CONVENTIONAL PANEL
T	FIRE SPRINKLER TAMPER SWITCH
WF	FIRE SPRINKLER WATER FLOW SWITCH
	EOL

RISER NOTE:
THE FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. IT IS A GENERALIZED REPRESENTATION INTENDED TO SHOW THE OVERALL ARRANGEMENT OF THE FIRE ALARM SYSTEM.



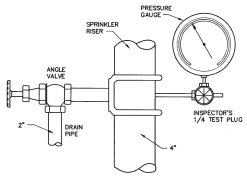
FIRE ALARM RISER – SHED 5

NOT TO SCALE



SYSTEM TEST CONNECTION

N.T.S.



DRAIN CONNECTION FOR SYSTEM RISER

N.T.S.

LSA
CONSULTING ENGINEERS
LEONARD SILVER & ASSOCIATES, INC.
P.O. BOX 2635
CHERRY HILL, NEW JERSEY 08003
Tel: (856)-429-1223 Fax: (856)-428-1959

LEONARD R. SILVER, P.E.
N.J.: GE28728 P.A.032015E

FIRE PROTECTION FLOOR PLAN
TRANSIT SHED No. 5
FOR
SOUTH JERSEY PORT CORPORATION
SITUATE
2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

drawn RFK | designed | checked | approved

JCA Associates, Inc.
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1256 NORTH CHURCH STREET, SUITE 3
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Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 29129

revisions: no. | date | by
DATE
date 8/11/00 | job no. SJPC-00300 | dwg no. FP2
scale AS NOTED | file no. BB-1640

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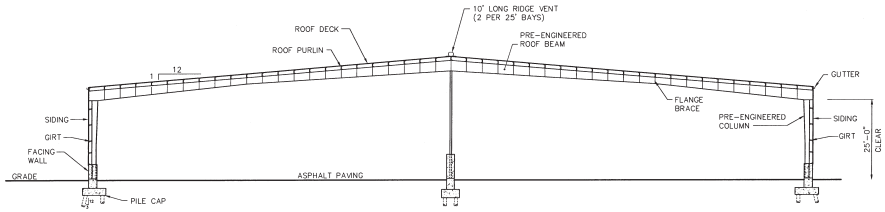
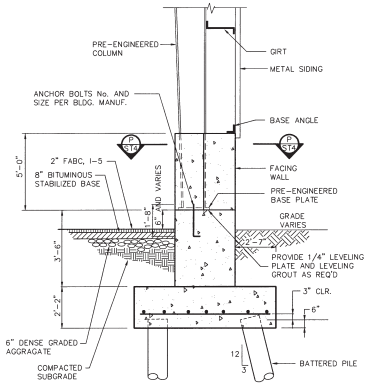
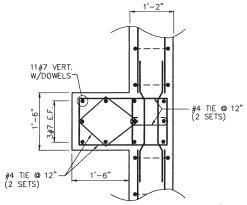


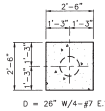
SECTION L ST3
SCALE: 1/18" = 1'-0"



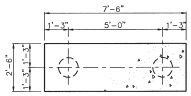
SECTION N ST3
SCALE: 3/8" = 1'-0"



SECTION P ST4
SCALE: 3/4" = 1'-0"



PC-5
PILE CAP DETAIL
SCALE: 3/8" = 1'-0"



PC-6
PILE CAP DETAIL
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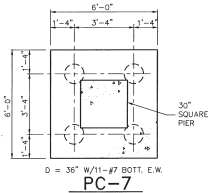

PC-7
PILE CAP DETAIL
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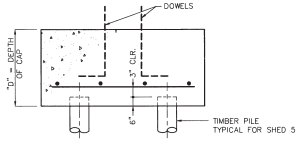

TYPICAL PILE CAP ELEVATION
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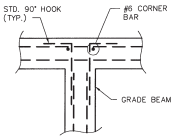

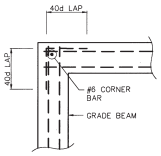

TYPICAL CORNER REINF. DETAILS
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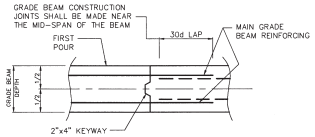
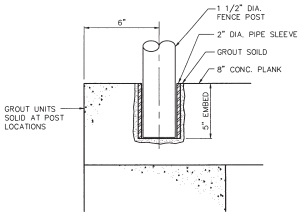


GRADE BEAM CONSTRUCTION JOINT
N.T.S.



FENCE POST DETAIL
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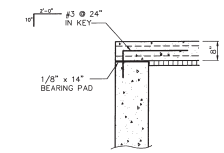

ROOF CROSS SECTION
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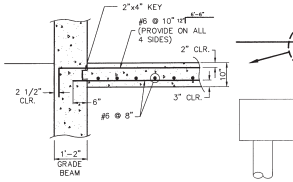

SLAB CROSS SECTION
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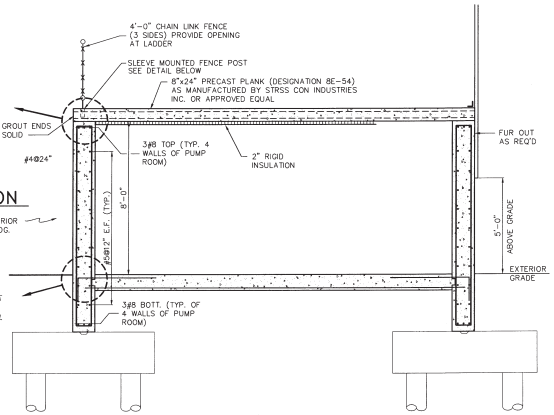
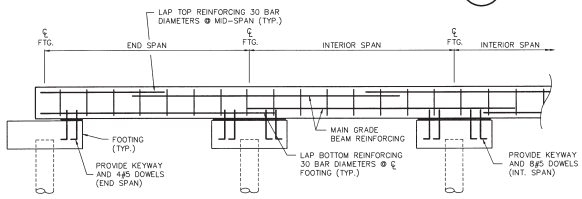


SECTION M ST3
SCALE: 3/8" = 1'-0"



GRADE BEAM REINF. SPLICE LOCATION DIAGRAMS
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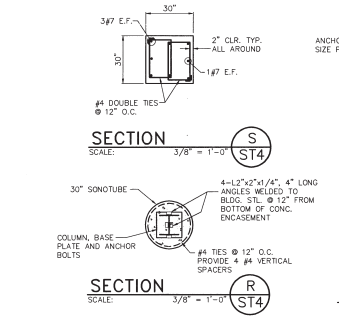
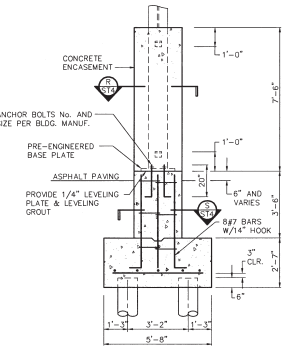
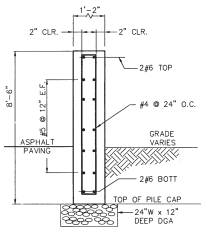


SECTION S ST4
SCALE: 3/8" = 1'-0"

SECTION R ST4
SCALE: 3/8" = 1'-0"



TYPICAL INTERIOR COLUMN PIER AND FOOTING DETAIL
SCALE: 3/8" = 1'-0"



TYPICAL GRADE BEAM AND FACING WALL DETAIL
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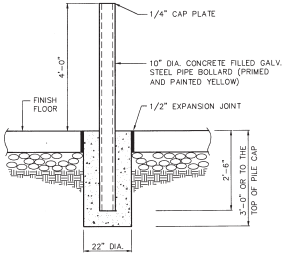

BOLLARD DETAIL
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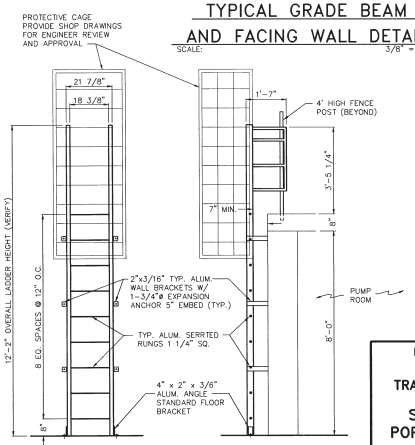

PUMP HOUSE LADDER DETAIL
SCALE: 1/2" = 1'-0"

NOTES:

1. TOP OF PIER ELEVATION TO BE 15.35
2. ALL TIMBER PILES SHALL BE 8" TIP ROUND TIMBER PILES WITH NATURAL TAPER, ASTM D25

BUILDING SECTIONS AND DETAILS

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

JCA Associates, Inc.
CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS
1256 NORTH CHURCH STREET, SUITE 3
MOORESTOWN, NJ 08057 (856)722-6700

revisions		
no.	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 29129

drawn	designed	checked	approved
JDH			

date	job no.	dwg no.
8/11/00	SJPC-00300	ST4
scale: AS NOTED	file no. BB-1638	

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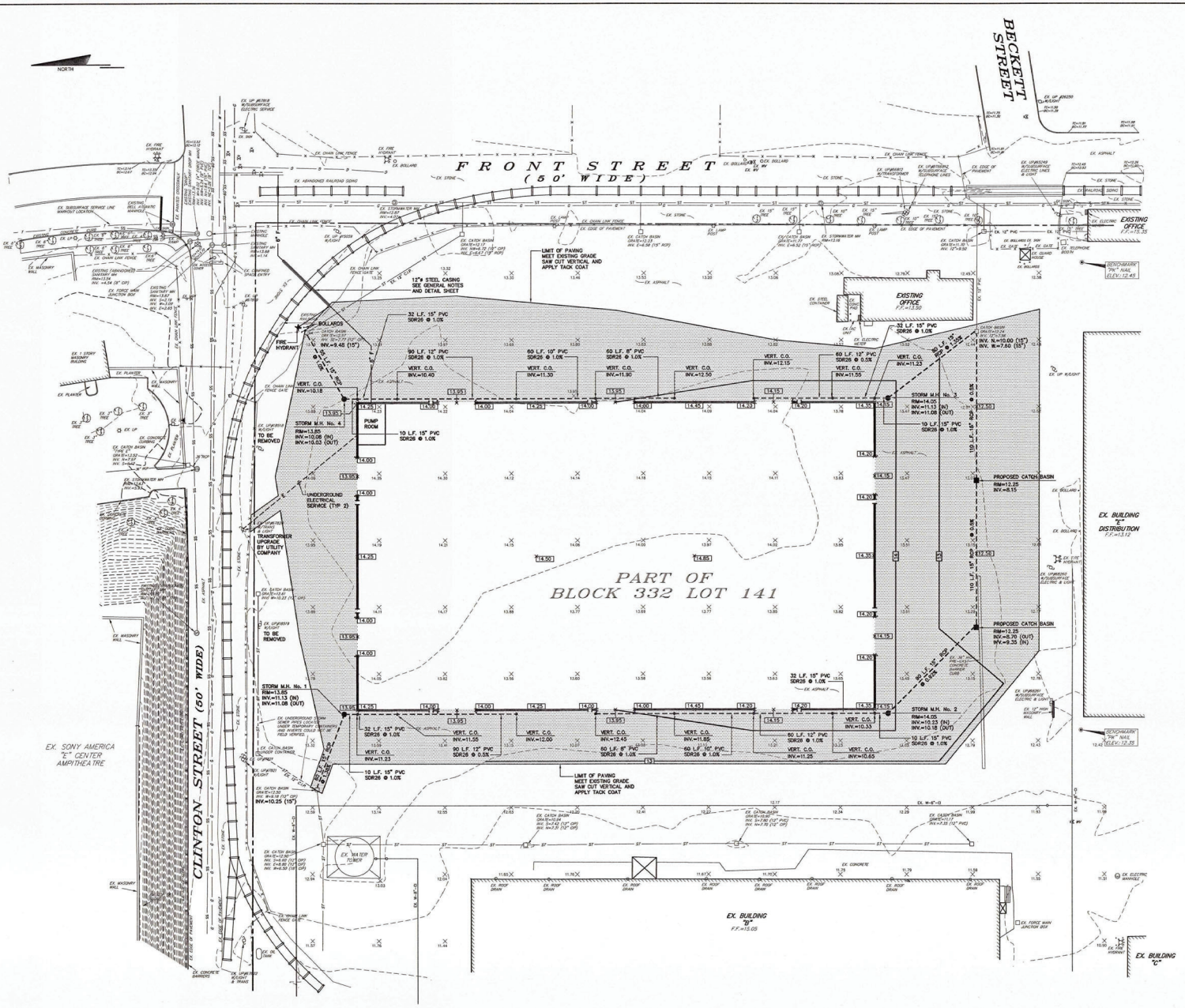

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

GRADING & UTILITY PLAN

TRANSIT SHED No. 5

FOR

SOUTH JERSEY PORT CORPORATION

SITUATE

2nd AND BECKETT STREETS
CAMDEN, NEW JERSEY 08104

JCA Associates, Inc.

CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS
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revisions		
no.	date	by

Edwin J. Steck
N.J. PROFESSIONAL ENGINEER No. 29929
DATE

drawn	designed	checked	approved
JDH			

date	job no.	dwg no.
8/11/00	SJPC-00300	C6
scale 1"=30'	file no. 98-1634	12 of 19

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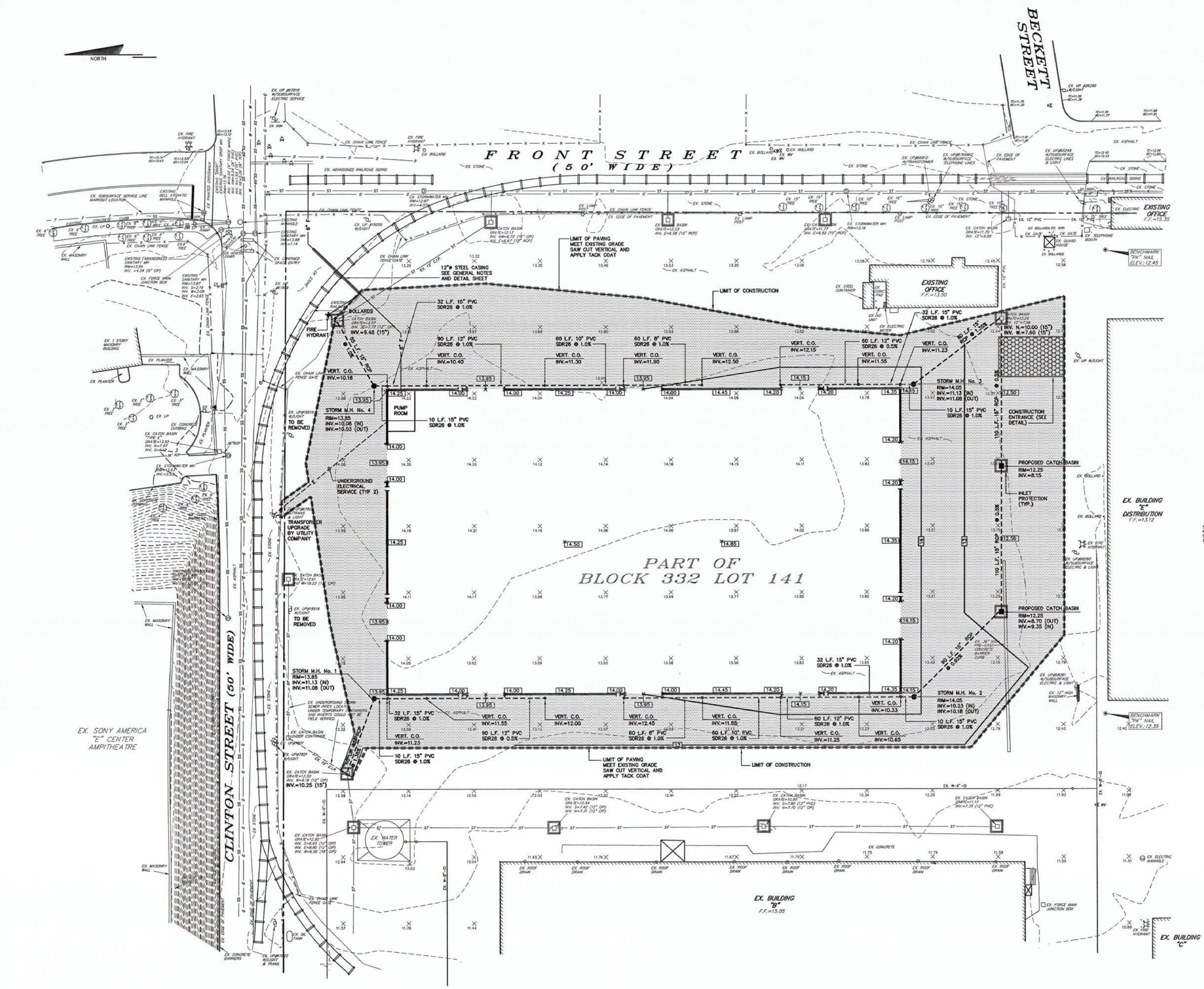
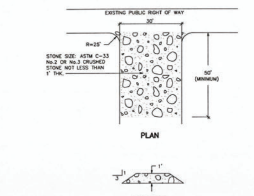


SOIL EROSION AND SEDIMENT CONTROL NOTES

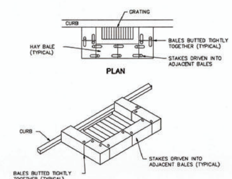
1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (i.e.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. *
7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (i.e.: SLOPES GREATER THAN 3:1). *
8. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50' x 30' x 1' PAD OF 1 1/2 TO 2 INCH STONE, AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE. *
9. IN ACCORDANCE WITH THE STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
10. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
11. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.

    IF THE REMOVAL OR TREATMENT OR THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN THAT N.J.S.A. 4:24-39 et seq. REQUIRED THAT NO CERTIFICATES OF OCCUPANCY SHALL BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. *
14. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
15. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.

* WHERE APPLICABLE.

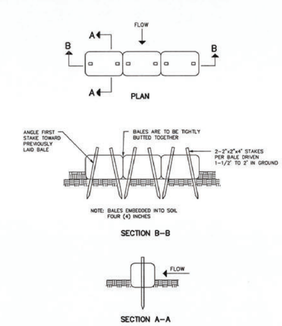


TEMPORARY CONSTRUCTION ENTRANCE DETAIL
N.T.S.

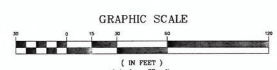


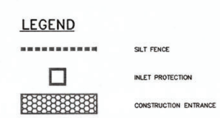
*NOTE: IF FIELD INLET IS (TYPE A OR E), PROTECTION SHALL BE PROVIDED ON ALL 4 SIDES.

CURB INLET PROTECTION
HAY BALE FILTER
N.T.S.



HAY BALE BERM DETAIL
N.T.S.





SOIL EROSION AND SEDIMENT CONTROL PLAN **TRANSIT SHED No. 5** FOR **SOUTH JERSEY PORT CORPORATION** SITUATE 2nd AND BECKETT STREETS CAMDEN, NEW JERSEY 08104	**JCA Associates, Inc.** CONSULTING ENGINEERS, SCIENTISTS, PLANNERS, SURVEYORS AND LICENSED DRILLERS 1256 NORTH CHURCH STREET, SUITE 3 MOORESTOWN, NJ 08057 (856)722-6700	
drawn JDH / designed / checked / approved	revisions: no. / date / by	Edwin J. Steck N.J. PROFESSIONAL ENGINEER No. 29129 DATE
	date 8/11/00 scale 1"=30'	job no. SJPC-00300 file no. BB-1635 dwg no. C7 13 of 19

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