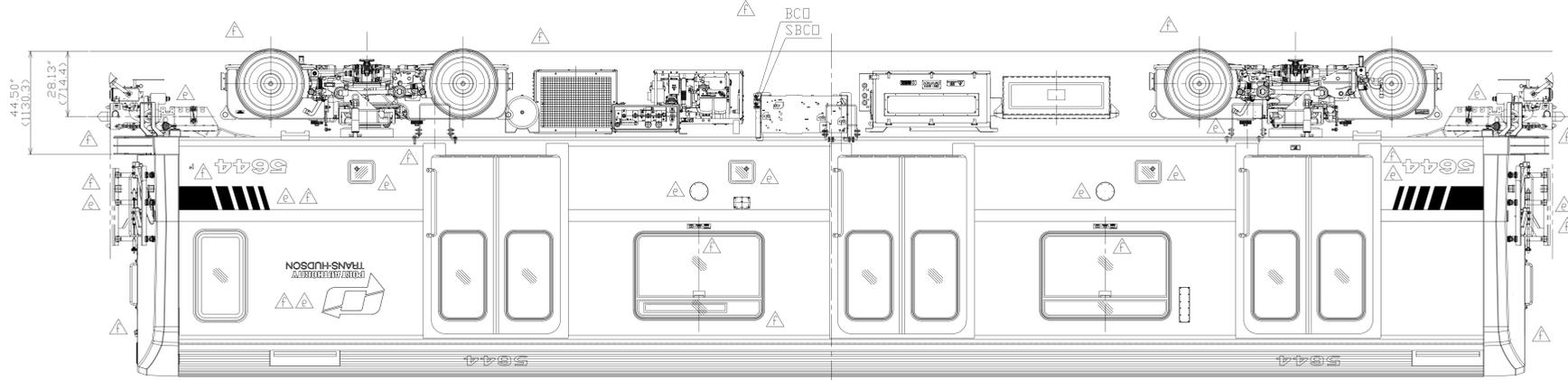
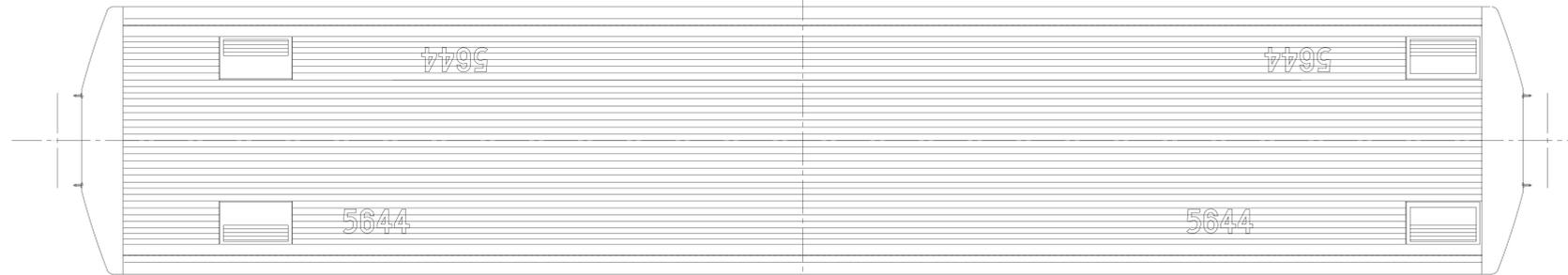


J815E0-710E1



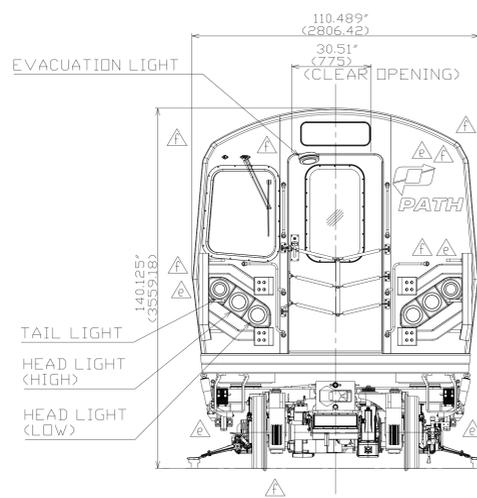
EXTERIOR ELEVATION-R SIDE

(R SIDE)

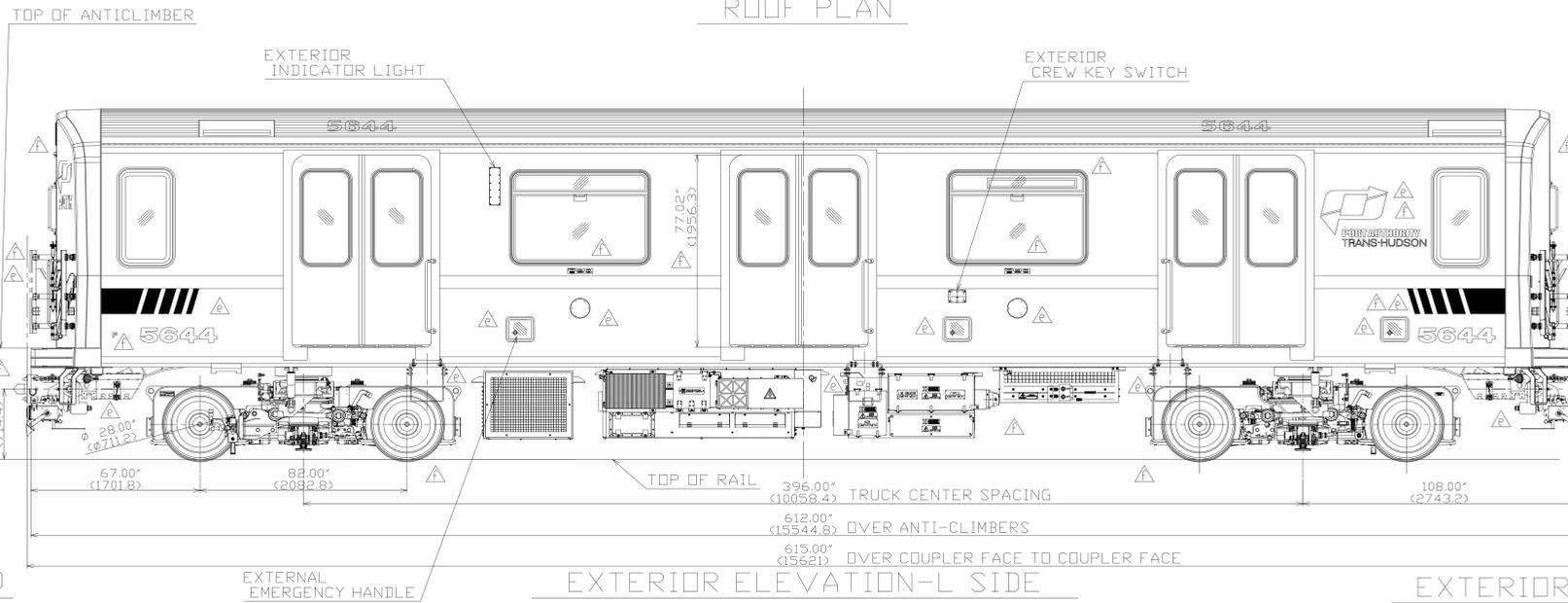


ROOF PLAN

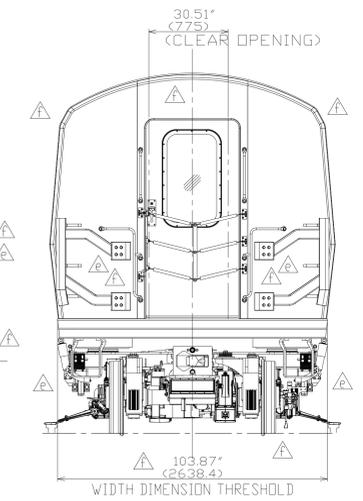
(L SIDE)



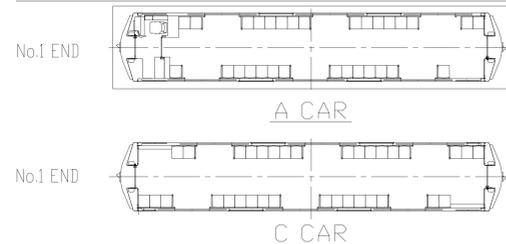
EXTERIOR ELEVATION-NO.1 END



EXTERIOR ELEVATION-L SIDE



EXTERIOR ELEVATION-NO.2 END



APPLICABLE CAR	SET/CAR	WT/CAR	EFFECTIVITY
A	1		ALL CARS
C			

Subject to the Authority's rights and Allowable Uses granted per Article 105 of the PATH New Railcar Procurement Contract Number 460005779, KAWASAKI RAIL CAR, INC. reserves all rights in and to any patents, trademarks, trade secrets and other intellectual property and proprietary information contained in this drawing, which are the property of KAWASAKI RAIL CAR, INC. or its licensees.

UNLESS OTHERWISE SPECIFIED	
TOLERANCE OF DIMENSIONS	
0.02"±0.12"	0.5 - 3 ±0.01 (0.2)
0.12"±0.24"	3 - 6 ±0.01 (0.3)
0.24"±0.24"	6 - 30 ±0.02 (0.5)
1.20"±4.70"	30 - 120 ±0.03 (0.8)
4.70"±12.5"	120 - 315 ±0.05 (1.2)
12.5"±40.0"	315 - 1000 ±0.08 (2.0)
40.0"±80.0"	1000 - 2000 ±0.12 (3.0)
OVER 80.0" (2000)	±0.25 (6.0)
ANGLES ±1°	
DRILLED HOLE DIA TOLERANCES	
0.12"±0.24"	3 - 5 ±0.006 (0.15)
0.24"±0.47"	6 - 15 ±0.010 (0.25)
0.47"±0.98"	12 - 25 ±0.012 (0.30)
0.98"±1.97"	25 - 50 ±0.016 (0.40)

CLASSIFICATION	SCALE
形状区分	縮尺
1	1:32
2	
3	
4	
5	

REV.	ECCO.ND.	DESCRIPTION	DATE	[DRAWN/CHECKED/APP'D]
07RC0090	UPDATED.		'07.07.26	
e	UPDATED.		'06.06.02	M.I. M.I. T.Y.
d	ADDED CAR NO. AND UPDATE.		'06.01.23	M.I. M.I. T.Y.
c	CHANGED PATH LOGO & END GATE.		'05.11.28	M.I. M.I. T.Y.
b	CHANGED CARBODY LENGTH.		'05.11.16	H.Y. H.Y. T.Y.
a	SEE 2/4.		'05.10.19	H.Y. H.Y. T.Y.

2005.10.07

川崎重工 KAWASAKI HEAVY INDUSTRIES, LTD.
 GENERAL ARRANGEMENT
 形式図 (A CAR)

PORT AUTHORITY
TRANS-HUDSON CORPORATION

Parsons Brinckerhoff
Engineers - Architects - Planners

Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

ALVIN R. JAHNELKA
NO. 9393
PROFESSIONAL
ENGINEER

Alvin R. Jahnelka

Title
SHOP BUILDINGS
GROUND LEVEL
PLUMBING
AREA 10

CERTIFIED "AS BUILT"
(BASED ON CORRECTED FIELD DRAWINGS)
ENGINEERING PROGRAM MANAGER
INTERSTATE TRANSPORTATION
DATE 3/19/86

1-20-85	AS BUILT	M.H.
7-15-88	REVISED AIR PIPE IN PIT	H.E.

No.	Date	Revision	Approved
-----	------	----------	----------

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to PATH and may not be used without its written consent.

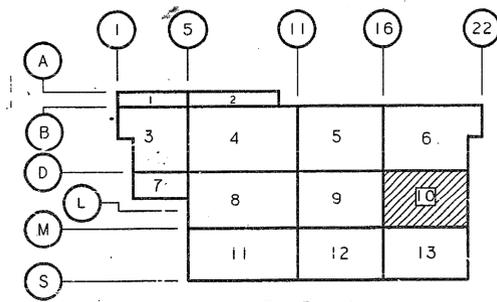
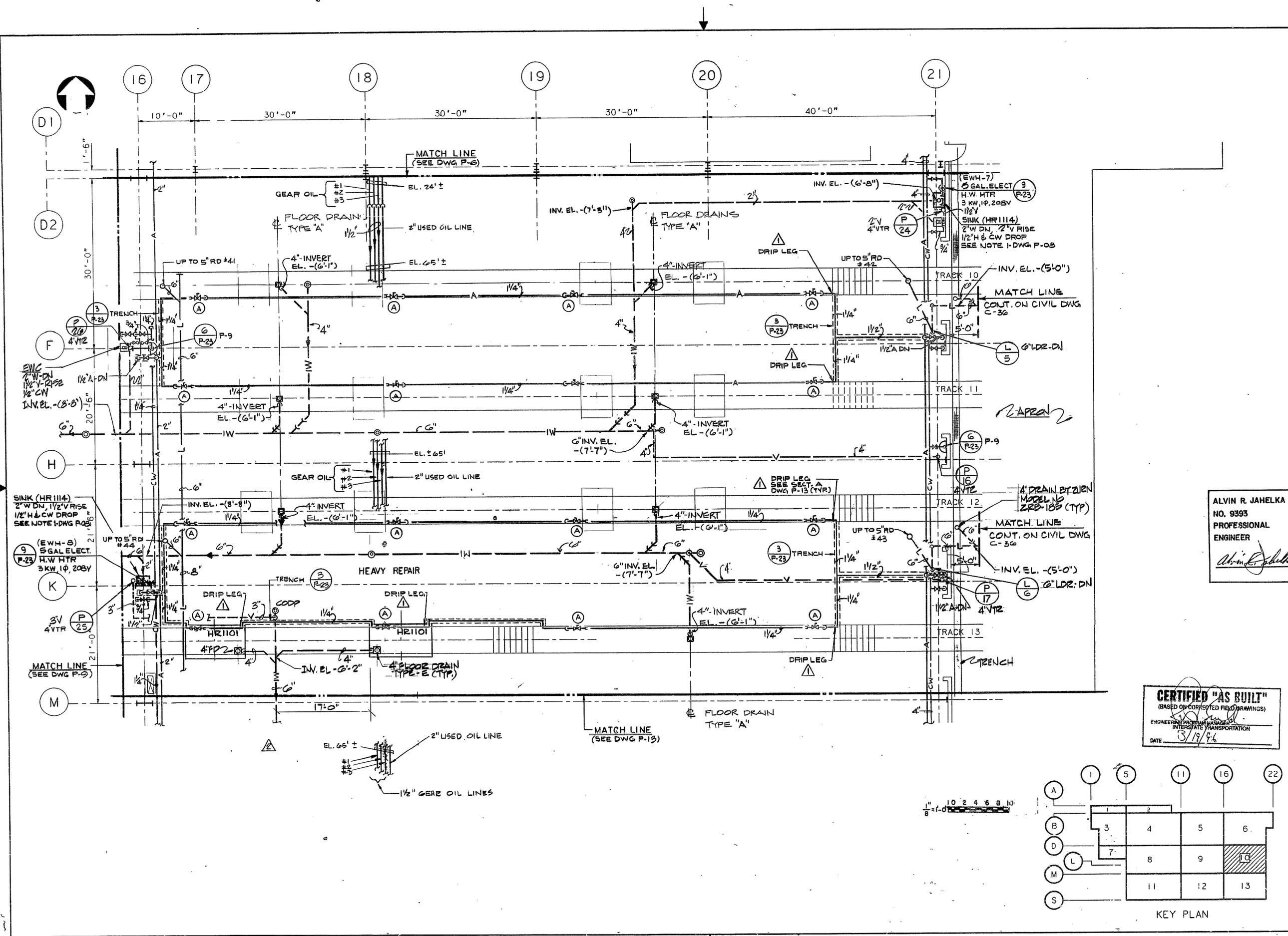
H.E. S.K. A.J.R.

Checked By Drawn By Task Leader

Date 6/7/88 Scale 1/8" = 1'-0"

Contract Number Drawing Number

PAT-150.153 P-10



PORT AUTHORITY
TRANS-HUDSON CORPORATION

Parsons
Brinckerhoff
Engineers - Architects - Planners

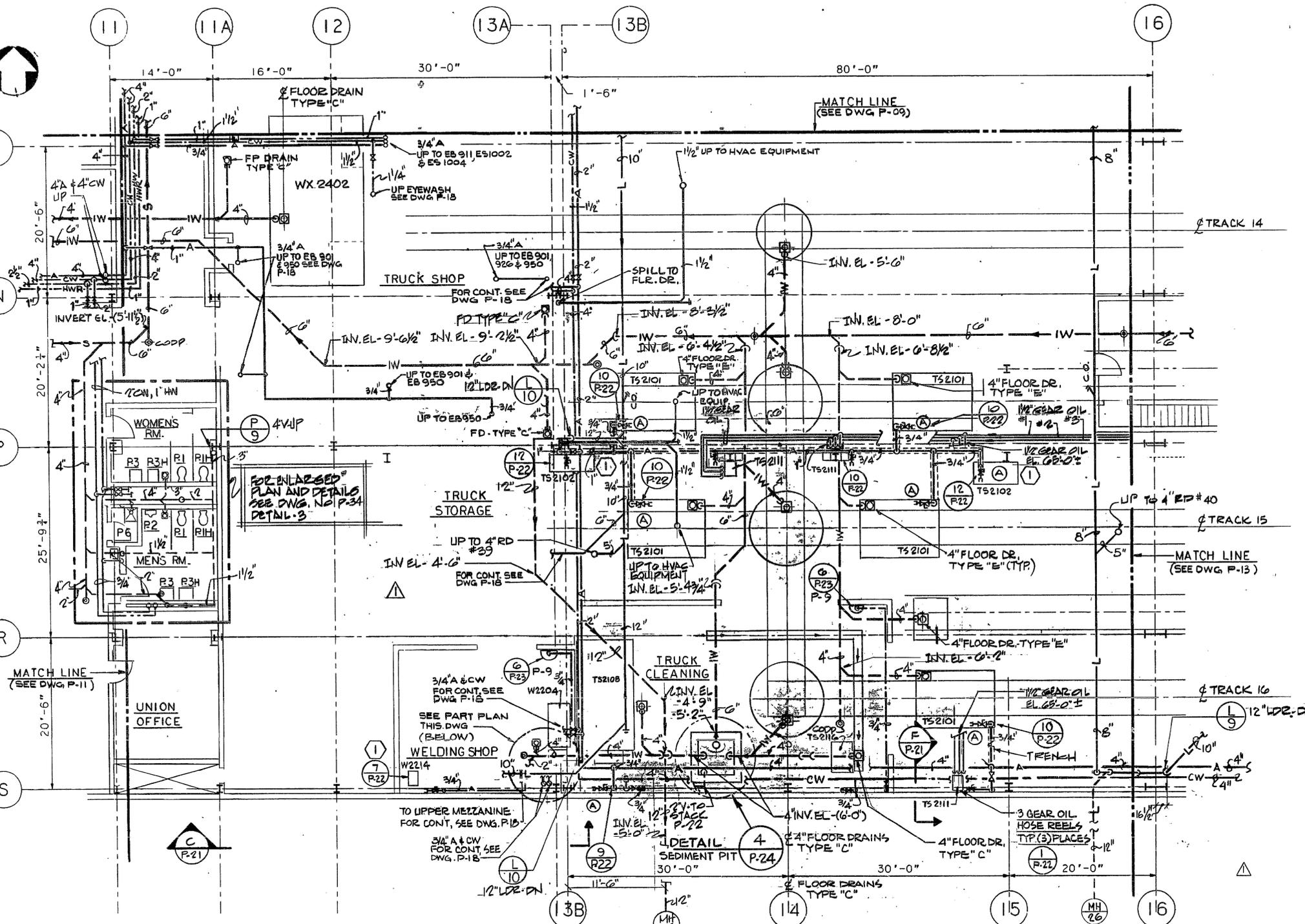
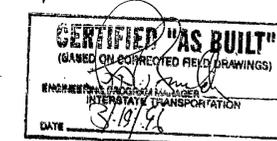
Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

ALVIN R. JAHNELKA
NO. 9393
PROFESSIONAL
ENGINEER

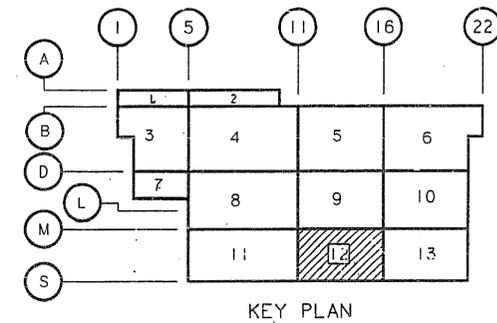
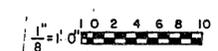
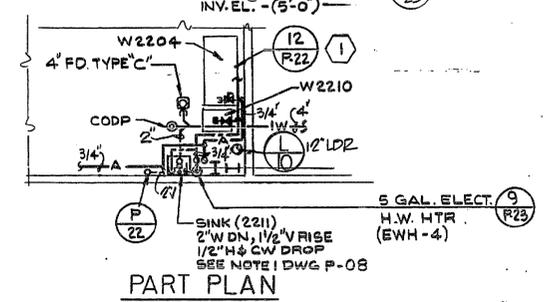


Title
SHOP BUILDINGS
GROUND LEVEL PLUMBING
AREA 12



AIR PRESSURE REDUCING VALVE SCHEDULE

1	PRESS. RED. VALVE REDUCTION FROM 125 TO 50 PSIG
---	---



1-20-98	AS BUILT	M.D.
No.	Date	Revision
		Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to PATH and may not be used without its written consent.

H.E. N.K. A.R.J.
Checked By Drawn By Task Leader
Date 6/17/88 Scale 1/8" = 1'-0"
Contract Number Drawing Number
PAT-150.153 P-12

PORT AUTHORITY
TRANS-HUDSON CORPORATION

Parsons
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Engineers - Architects - Planners

Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

ALVIN R. JAHNELKA
NO. 9393
PROFESSIONAL
ENGINEER

Title
**SHOP BUILDINGS
GROUND LEVEL
PLUMBING
AREA 13**

CERTIFIED "AS BUILT"
(BASED ON CORRECTED FIELD DRAWINGS)
ENGINEERING PROGRAM MANAGER
INTERSTATE TRANSPORTATION
DATE: 3/19/88

No.	Date	Revision	Approved
1-20-95		AS BUILT	M.H.
7-15-88		ADDED SECTION 2 REVISED AIR PIPE IN PIT	H.E.

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to PATH and may not be used without its written consent.

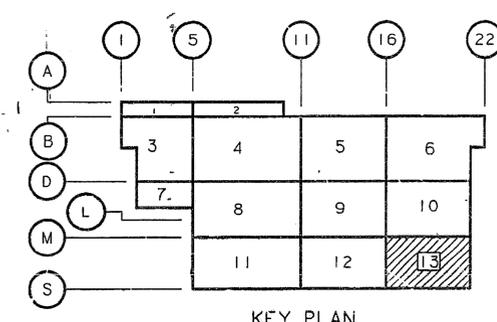
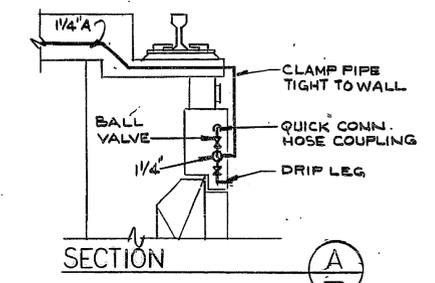
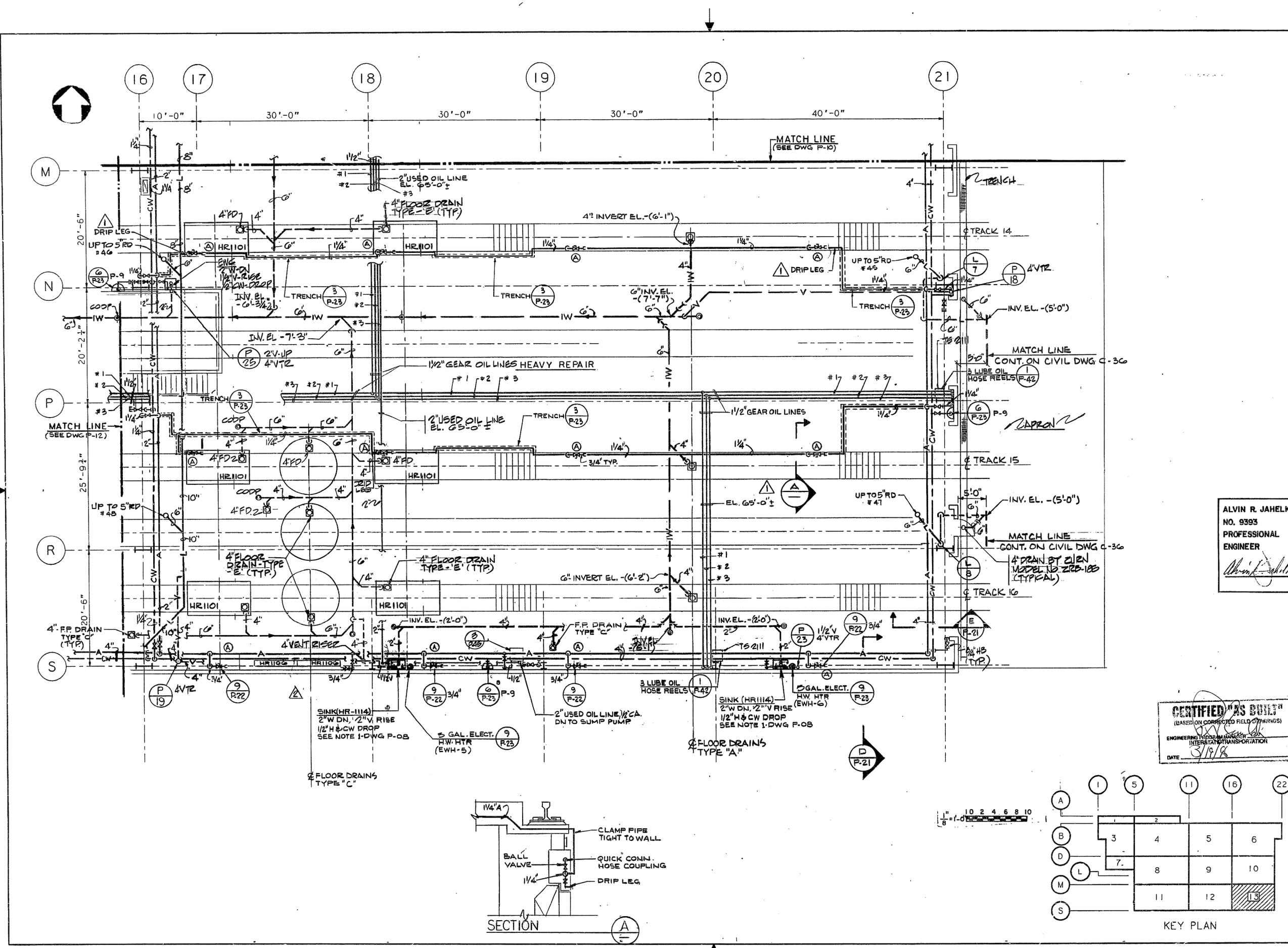
H.E. N.K. A.R.J.

Checked By _____ Drawn By _____ Task Leader

Date: 6/7/88 Scale: 1/8" = 1'-0"

Contract Number _____ Drawing Number

PAT-150.153 P-13





PORT AUTHORITY
TRANS-HUDSON CORPORATION

ENGINEER OF DESIGN, R.T.F.

A.J. Grumdel
CHIEF CIVIL ENGINEER

Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

The
SHOP SUPERSTRUCTURE

SITE PLAN

3/1/91	AS BUILT	N.O.
1/1/0	REVISED COORDINATE SINCE COMMENCE	RC
No.	Date	Revision
		Approved

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to PATH and may not be
used without it's written consent.

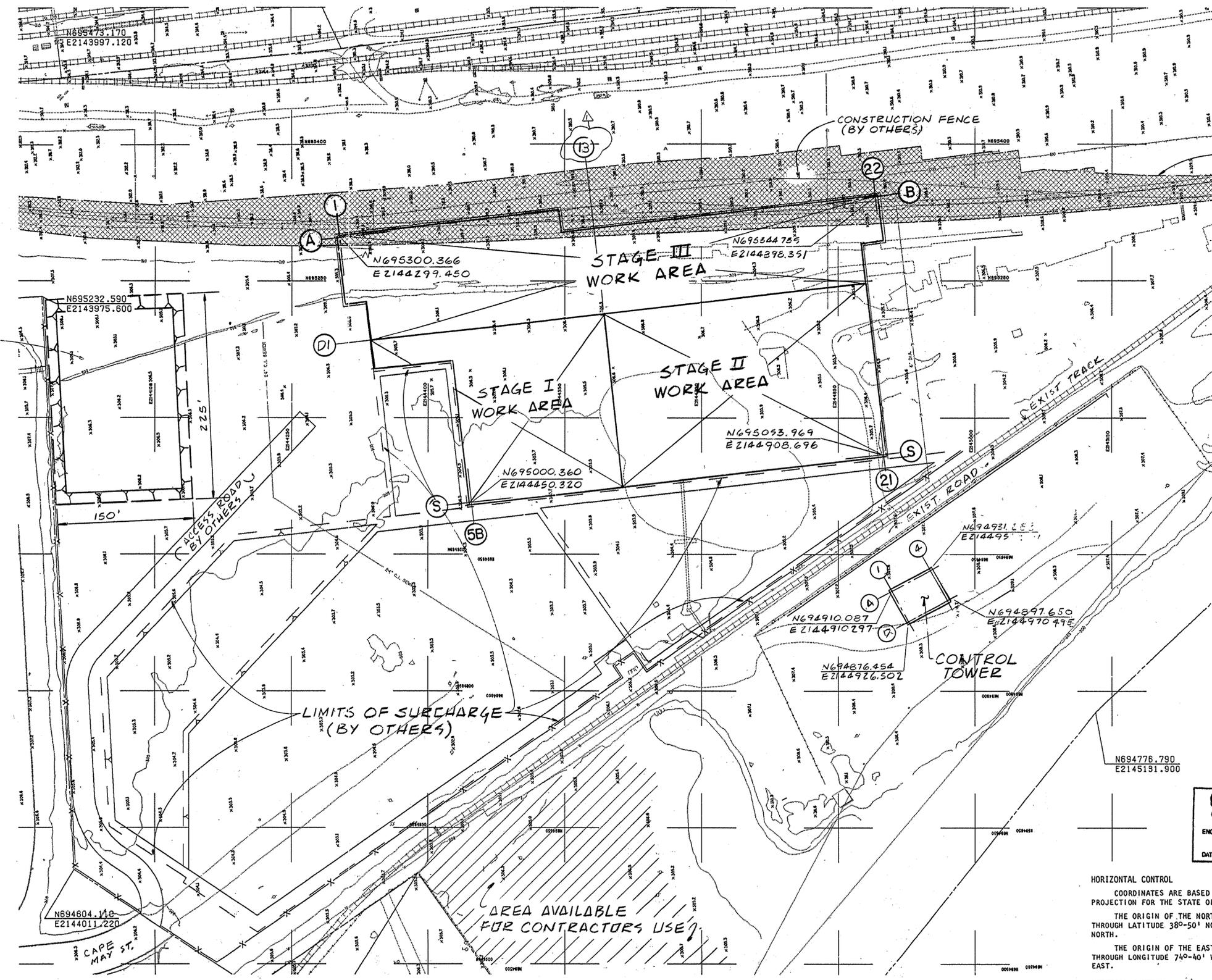
W. K. WITTEL P. C. C. M.
Designed by Drawn by Task Leader

P. C. C. M.
Checked by Senior Engineer

Date
Contract Number Drawing Number
PAT-150.149 C-1

STOCKPILE
(BY OTHERS)

WORK AREA UNDER CONTROL
OF OTHER CONTRACTOR?
UNTIL APPROX. 12/31/87



CERTIFIED "AS BUILT"
(BASED ON CORRECTED FIELD DRAWINGS)
A.J. Grumdel
ENGINEERING PROGRAM MANAGER
INTERSTATE TRANSPORTATION
DATE 12/29/85

HORIZONTAL CONTROL
COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR
PROJECTION FOR THE STATE OF NEW JERSEY.
THE ORIGIN OF THE NORTH COORDINATE IS A LINE DRAWN
THROUGH LATITUDE 38°-50' NORTH AND IS EQUAL TO 0.000'
NORTH.
THE ORIGIN OF THE EAST COORDINATE IS A LINE DRAWN
THROUGH LONGITUDE 74°-40' WEST AND IS EQUAL TO 2,000,000'
EAST.
VERTICAL CONTROL
ELEVATION 300.00' EQUALS 2.653' ABOVE MEAN SEA LEVEL AT
SANDY HOOK, N.J. AS ESTABLISHED BY THE NATIONAL OCEAN SURVEY.

GENERAL

1. REFERENCE ELEVATION 0'-0" IS FUTURE TOP OF RAIL ELEVATION 308.51'. SEE DRAWING C-1 FOR DATUM.
2. ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS ONLY AS COMPLETED STRUCTURES. THE CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETE. THE CONTRACTOR SHALL ALSO INSURE THAT HIS OPERATIONS AND PROCEDURES PROVIDE NO LOADINGS GREATER THAN THE DESIGN LOADS ON ANY MEMBER.
3. CONTRACTOR SHALL MAINTAIN, PROTECT AND PROVIDE ADEQUATE TEMPORARY SUPPORTS AS REQUIRED FOR THE EXECUTION OF THIS CONTRACT. THE CONTRACTOR'S DESIGN CALCULATIONS AND DRAWINGS DESCRIBING THE TEMPORARY SUPPORTS AND SEQUENCE OF CONSTRUCTION SHALL BE REVIEWED AND SIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW JERSEY, AND BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
4. DOWELS, ANCHOR BOLTS AND SIMILAR ITEMS CALLED FOR IN THE PRESENT CONTRACT, FOR UTILIZATION IN FUTURE CONTRACTS, SHOULD BE FULLY PROTECTED BY THE CONTRACTOR.

CONCRETE

JOINTS SHALL BE PROVIDED AS SHOWN ON CONTRACT DRAWINGS OR AS APPROVED BY THE ENGINEER.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL

ALL CONNECTIONS SHALL BE SHOP WELDED OR HIGH STRENGTH BOLTED, UNLESS OTHERWISE NOTED.

HIGH STRENGTH BOLTS SHALL BE ASTM A325 SLIP CRITICAL TYPE. THE SIZE SHALL BE 3/4" DIAMETER FOR GIRTS AND PURLINS AND 7/8" DIAMETER FOR OTHER MEMBERS UNLESS OTHERWISE NOTED. ALL CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.

CONNECTIONS SHALL BE DESIGNED FOR THE SHEAR, THRUST AND MOMENT REACTIONS INDICATED ON THE DRAWINGS OR 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD IN KIPS AS SHOWN IN PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION IF NO REACTIONS ARE SHOWN.

IN ADDITION, THE DETAILS OF CONNECTIONS, SIZE AND LENGTH OF WELDS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SHOULD BE IN ACCORDANCE WITH AISC PUBLICATION "DETAILING FOR STEEL CONSTRUCTION", 1983.

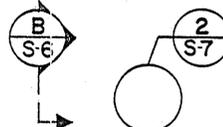
CONNECTIONS OF BRACING MEMBERS SHALL BE DESIGNED FOR THE FORCES INDICATED OR 50% OF THE TENSION CAPACITY OF THE MEMBERS OR TWO BOLTS WHICHEVER IS GREATER.

GUSSET PLATES SHALL BE AS REQUIRED BY STRESS. AND SHALL HAVE A MINIMUM THICKNESS OF 3/8".

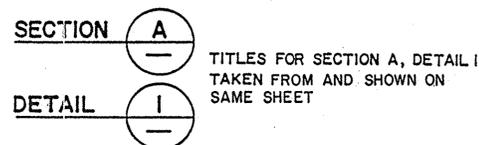
COLUMNS ENDS SHALL BE MILLED TO BEAR.



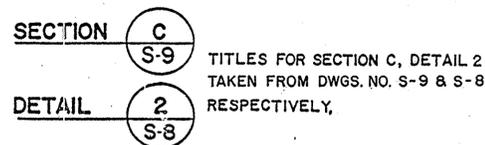
SECTION A, DETAIL 1
TAKEN FROM AND SHOWN ON
SAME SHEET.



SECTION B, DETAIL 2
DRAWN ON DWGS. NO.
S-6 & S-7 RESPECTIVELY.



TITLES FOR SECTION A, DETAIL 1
TAKEN FROM AND SHOWN ON
SAME SHEET



TITLES FOR SECTION C, DETAIL 2
TAKEN FROM DWGS. NO. S-9 & S-8
RESPECTIVELY.

NOTE:
ALL CONCRETE PIERS, ANCHOR BOLTS AND DOWELS SHOWN IN THESE DRAWINGS, BY OTHERS (NOT IN THIS CONTRACT) AND ARE SHOWN FOR INFORMATION ONLY.

PORT AUTHORITY
TRANS-HUDSON CORPORATION

ROBERT WARSHAW
N.J. P. E. 10135

Parsons
Brinckerhoff
Engineers - Architects - Planners

Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

Title
SHOP SUPERSTRUCTURE
GENERAL NOTES
AND SYMBOLS

3/1/91	AS BUILT	N.O.
No.	Date	Revision
		Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to PATH and may not be used without its written consent.

K. U. C. C. N. S.
Checked by Drawn by Task Leader

Date OCT. 15, 1987 Scale NONE

Contract Number Drawing Number
PAT - 150.149 S-1



PORT AUTHORITY
TRANS-HUDSON CORPORATION

Ujay Chandra
VIJAY CHANDRA
N.J.P.E 30875

Parsons
Brinckerhoff
Engineers - Architects - Planners

Engineering Department
Design Divisions

MAIN REPAIR
FACILITY AND YARD
AT HARRISON
AND KEARNY

Title
SHOP FOUNDATIONS
MAIN BUILDING
FOUNDATION PLAN
AREA 12

No.	Date	Revision	Approved
1/2/88		ADD DOWELS, NOTES & TEXT, REVISE FTG.	K.U.
12/20/87		COMBINED 2-FEA TO F4 & F4A AND F4A TO F4. REVISED DIMENSIONS & F4A. REMOVE 6-FEA. 1-FEA EXCEPT. CHANGED F4B TO F4F & F12A TO F12 AND 1-F12. ADDED F4, F8B & NOTES.	K.U.
11/2/87		RELOCATED FTG. F4 & CHANGE SIZE OF FTG. S. AS SHOWN PER ADDENDUM #1	

No. Date Revision Approved

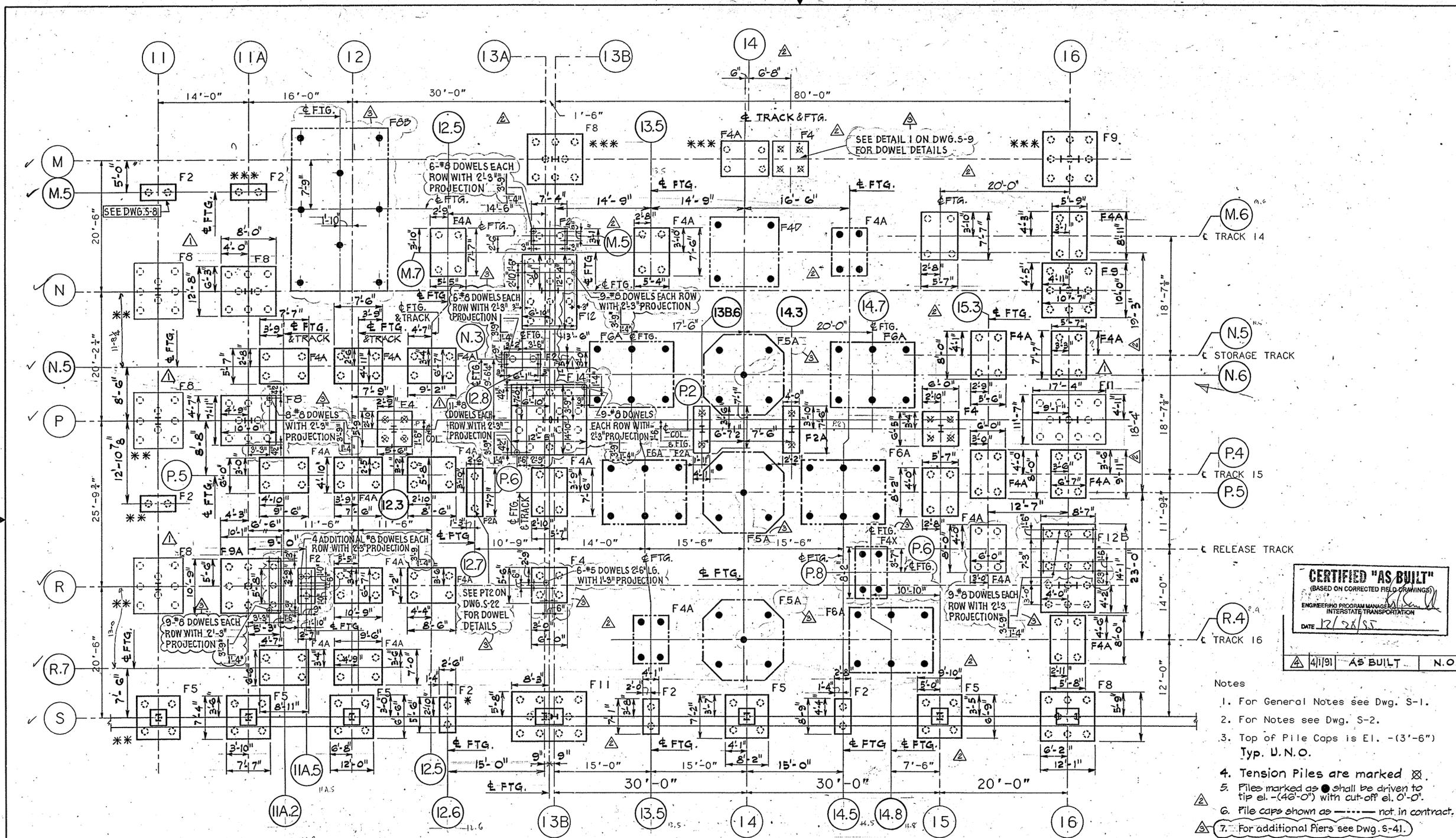
This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to PATH and may not be used without its written consent.

KS DV NS

Checked By Drawn By Task Leader

Date SEPT. 10, 1987 Scale 1/8" = 1'-0"

Contract Number Drawing Number
PAT 150.150 S-12

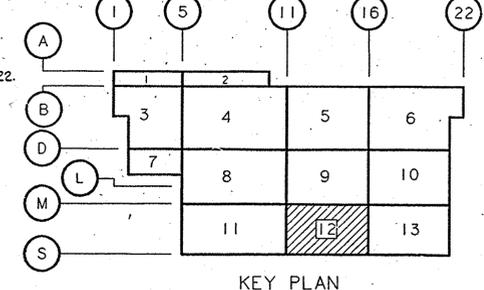


CERTIFIED "AS BUILT"
(BASED ON CORRECTED FIELD DRAWINGS)
ENGINEER'S PROGRAM MANAGER
INTERSTATE TRANSPORTATION
DATE 12/28/85

- Notes
1. For General Notes see Dwg. S-1.
 2. For Notes see Dwg. S-2.
 3. Top of Pile Caps is El. -(3'-6") Typ. U.N.O.
 4. Tension Piles are marked ⊗.
 5. Piles marked as ● shall be driven to tip el. -(42'-0") with cut-off el. 0'-0".
 6. Pile caps shown as ----- not in contract.
 7. For additional Piers see Dwg. S-41.

* FOR HORIZONTAL DOWELS FROM GR. BM. TO FUTURE GR. BM. SEE DETAIL ①, DWG. S-29.
** SEE DWG. S-11
*** SEE DWG. S-9.

8. For Dowel Details on Ftg. F4A see PT4 on Dwg. S-22.
9. For Dowel Details on Ftg. F2 see Dwg. S-29, (except on Col. Line ⑤).
10. For Pile Designations and Locations, see Data Entry Sheets 1-109.



KEY PLAN