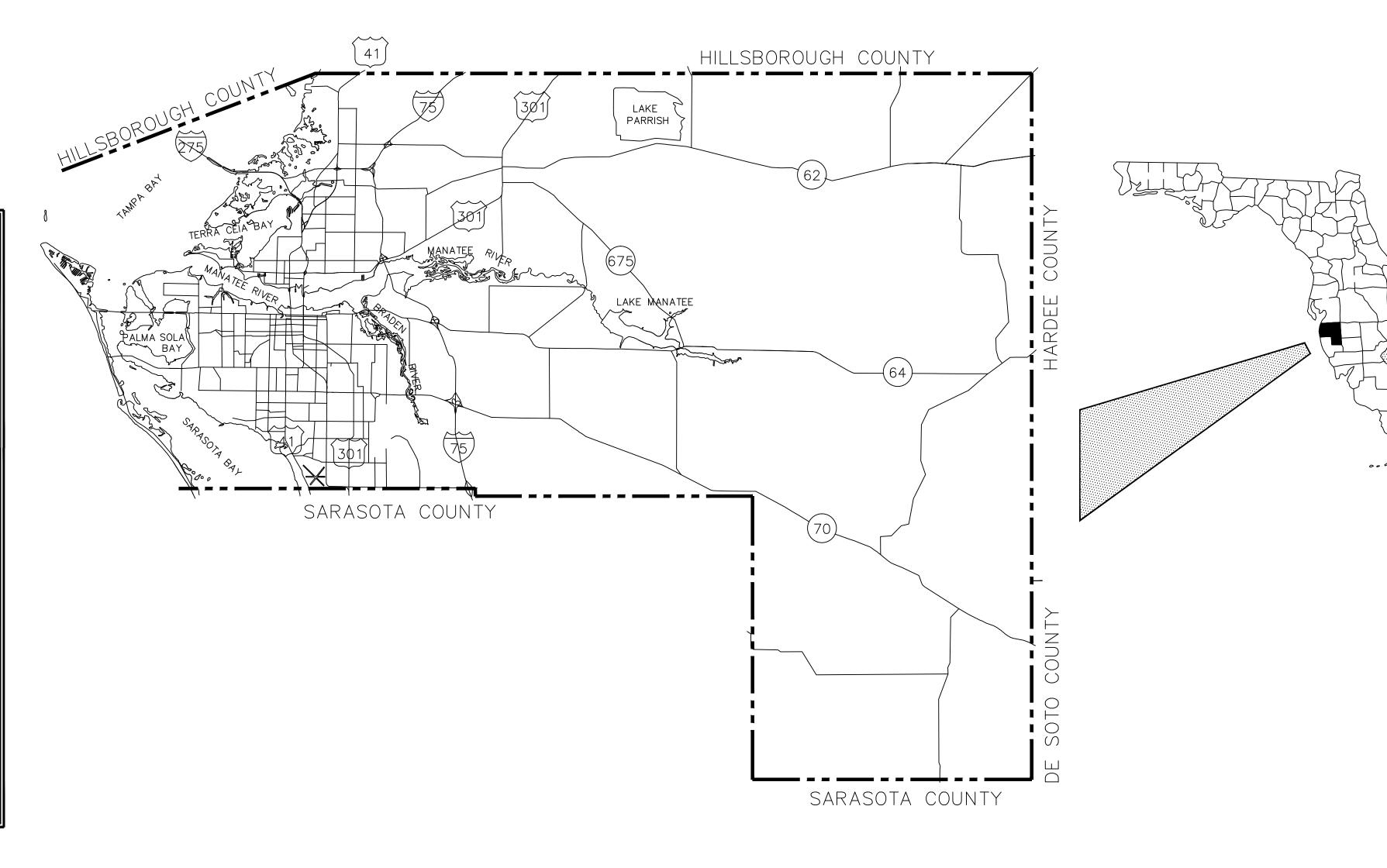
# STORMWATER MANAGEMENT 65TH AVE. W. PIPE REPLACEMENT FROM 12TH ST. W. TO 5TH ST. W. MANATEE COUNTY PROJECT NO. 6046000

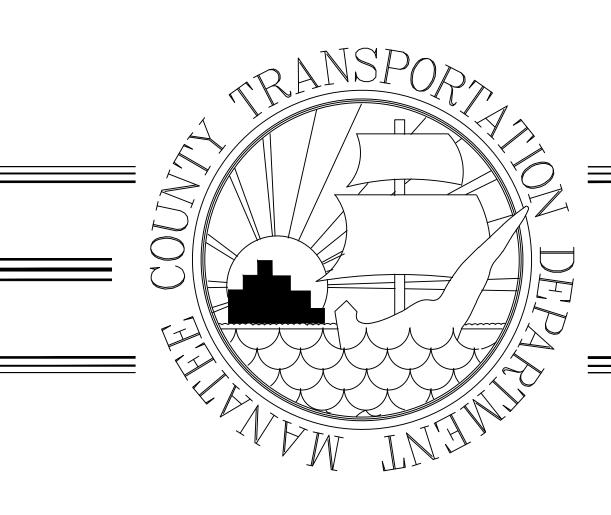
## NOTES :

- 1. Contractor shall locate and stake out all underground utilities (i.e. gas line) prior to any excavation activity. The gas line shall be staked out and top of pipe elevation provided at a minimum of every other lot line. This information shall be provided on the As-Built drawings.
- The contractor shall seek the recommendation of a professional structural engineer who is licensed in the State of Florida for protective measures, if any are needed, prior to any construction to protect existing pool structures or any other structures.

Per Addendum # 1 dated December 2, 2008

- 1. Videotaping requirements as per FDOT Spec
- 430-4.48
  An as-built survey will be required for the final product. The survey needs to reference the contiguous property corners of all the affected lots. Any missing monumentation needs to be replaced as part of the scope of services for the project. The survey shall reflect the location of all new improvements, with the periodic distances from the located property corners.
- 3. Prior to construction, another Public Information Meeting will be scheduled, with the contractor and Public Works staff providing scheduled information to the residents, as well as other pertinent construction information. Attendance at meeting will be considered part of mobilization.
- The residents will be instructed to move any structures. However, the contractor should be prepared to remove or relocate any structures as needed and should plan accordingly with their bid and specifically their line item for Miscellaneous Work and Clean Up. Best efforts need to take place to remove without destruction.
   There are no trees to be replaced as part of this
- 5. There are no trees to be replaced as part of this project.





SHEET No.	DESCRIPTION
1	Cover Sheet
2	Quantity Sheet
3-6	Plan And Profiles
7-9	Fence Location Sheets
10	Detail Sheet

APPROVED BY:

SIA MOLLANAZAR, P.E. NO. 42903

DATE

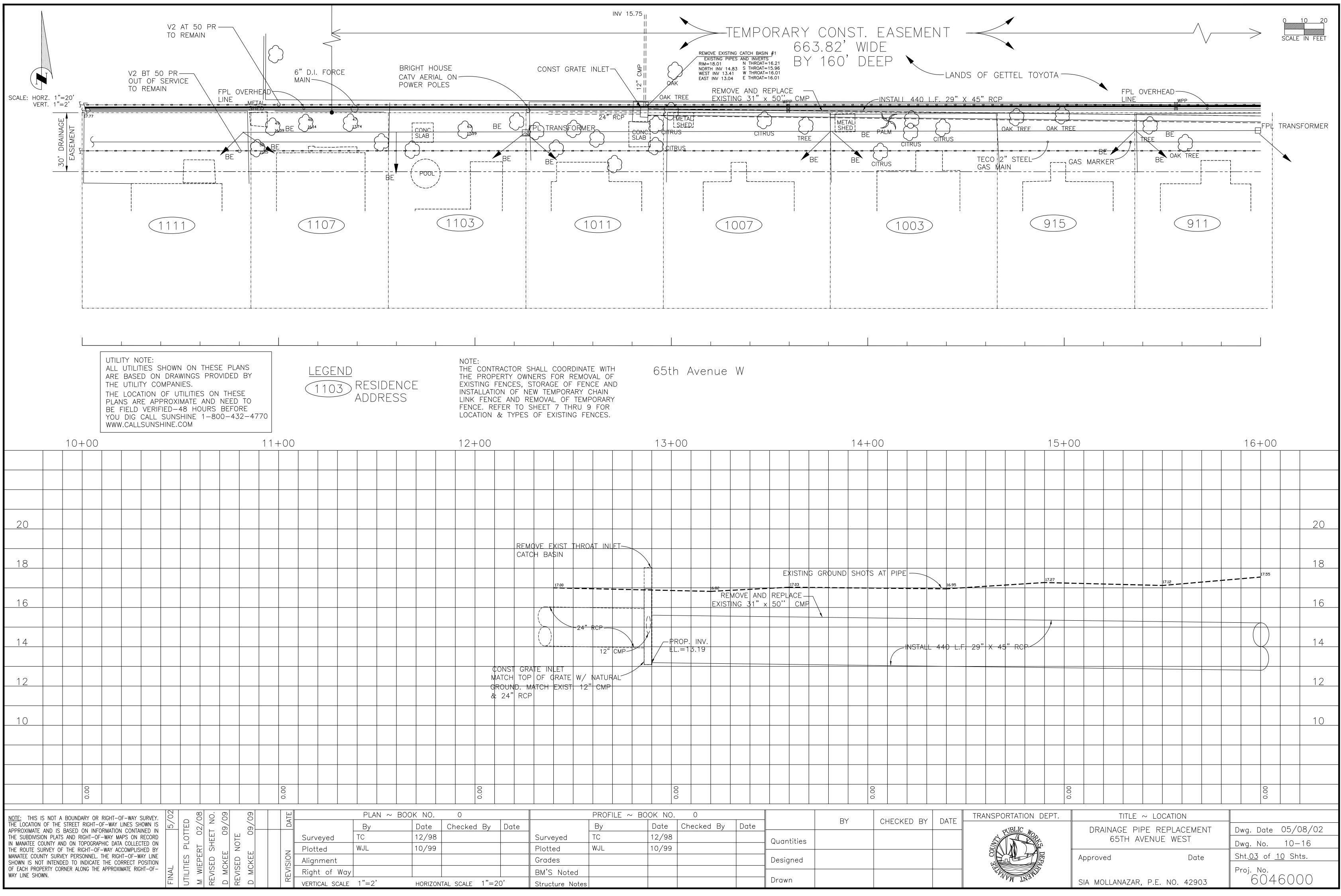
## SUMMARY OF QUANTITIES ITEM NO. FDOT PAY ITEM NO. DESCRIPTION MOBILIZATION 1 2 MAINTENANCE OF TRAFFIC 102-1 3 110-1 CLEARING AND GRUBBING REMOVAL OF EXISTING STRUCTURES (CATCH BASINS) 4 110-3 5 120-1 REGULAR EXCAVATING 6 162-2 TOP SOIL (6" THICK) 7 DRAINAGE STRUCTURE – GRATE INLET 425-11 8 430-141-000 INSTALL 42" RCP CLASS III 9 430-141-000 INSTALL 29" X 45" RCP CLASS III 10 580-332-2 TREE REMOVAL 575-1-1 SODDING (BAHIA) 11 12 REMOVE EXISTING PIPE (20" OR MORE) 1600-900-26 DISCRETIONARY WORK 13 14 MISCELLANEOUS WORK AND CLEAN UP 15 REMOVE EXISTING FENCE 16 INSTALL TEMPORARY CHAIN LINK FENCE AND REMOVAL OF TEMPORARY FENCE. (LOCATION TO BE COORDINATED WITH EACH PROPERTY OWNER). 17 INSTALL WOOD FENCE 18 INSTALL CHAIN LINK FENCE 19 INSTALL PVC FENCE 20 INSTALL HOG WIRE FENCE

## STORMWATER MANAGEMENT QUANTITY SHEET

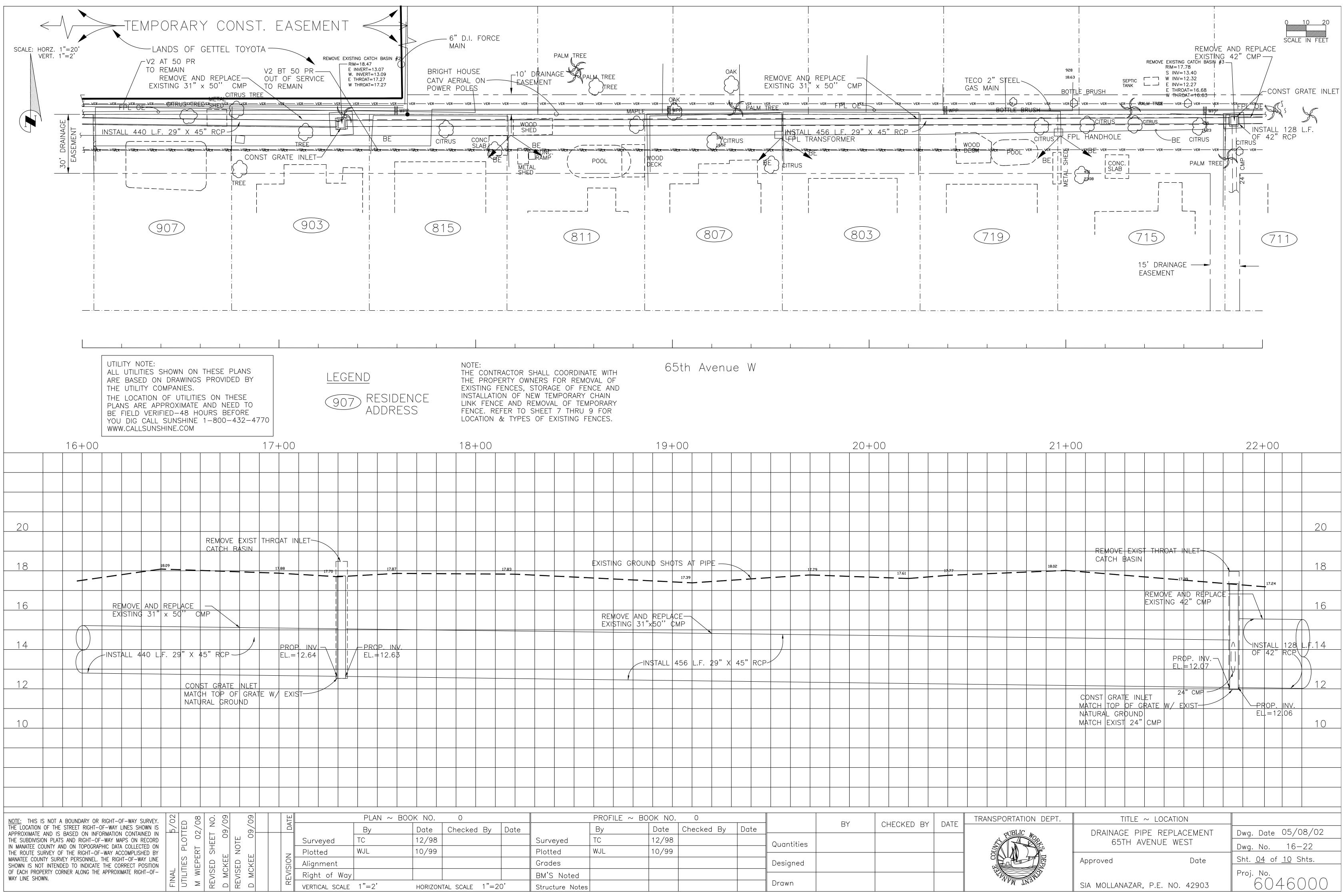
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LS	1
LS	1
EA	5
LS	1
SY	4800
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LF	888
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LF	1800
LS	1
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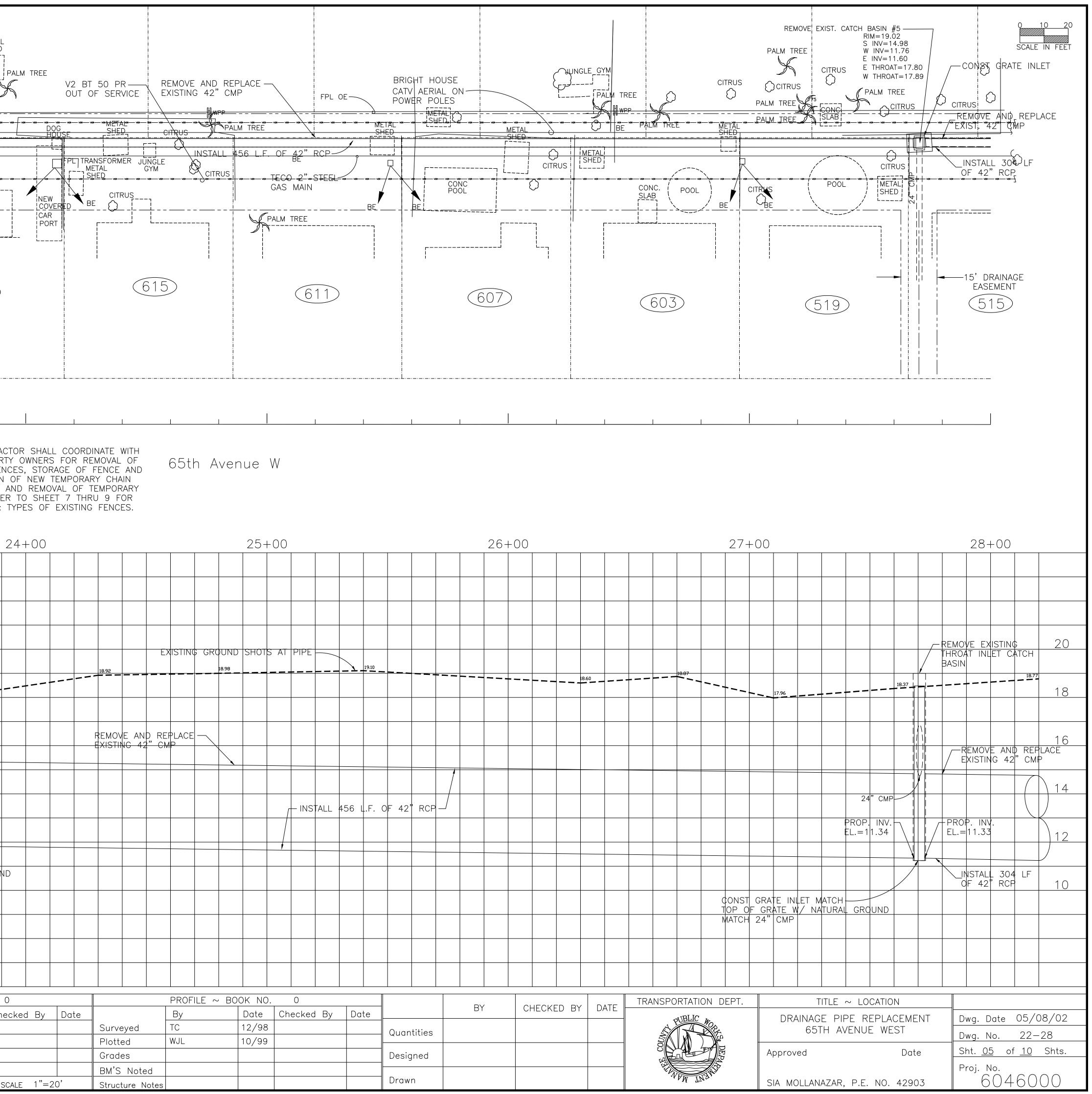


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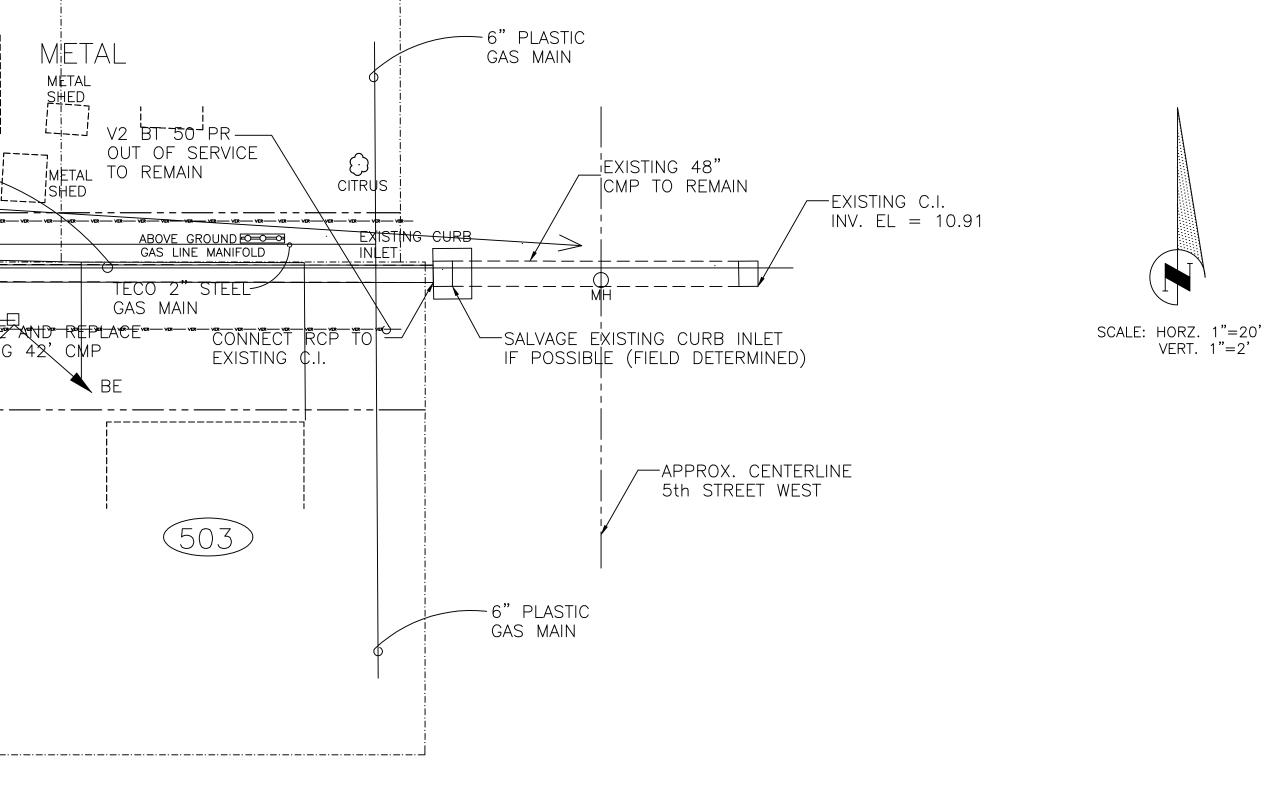
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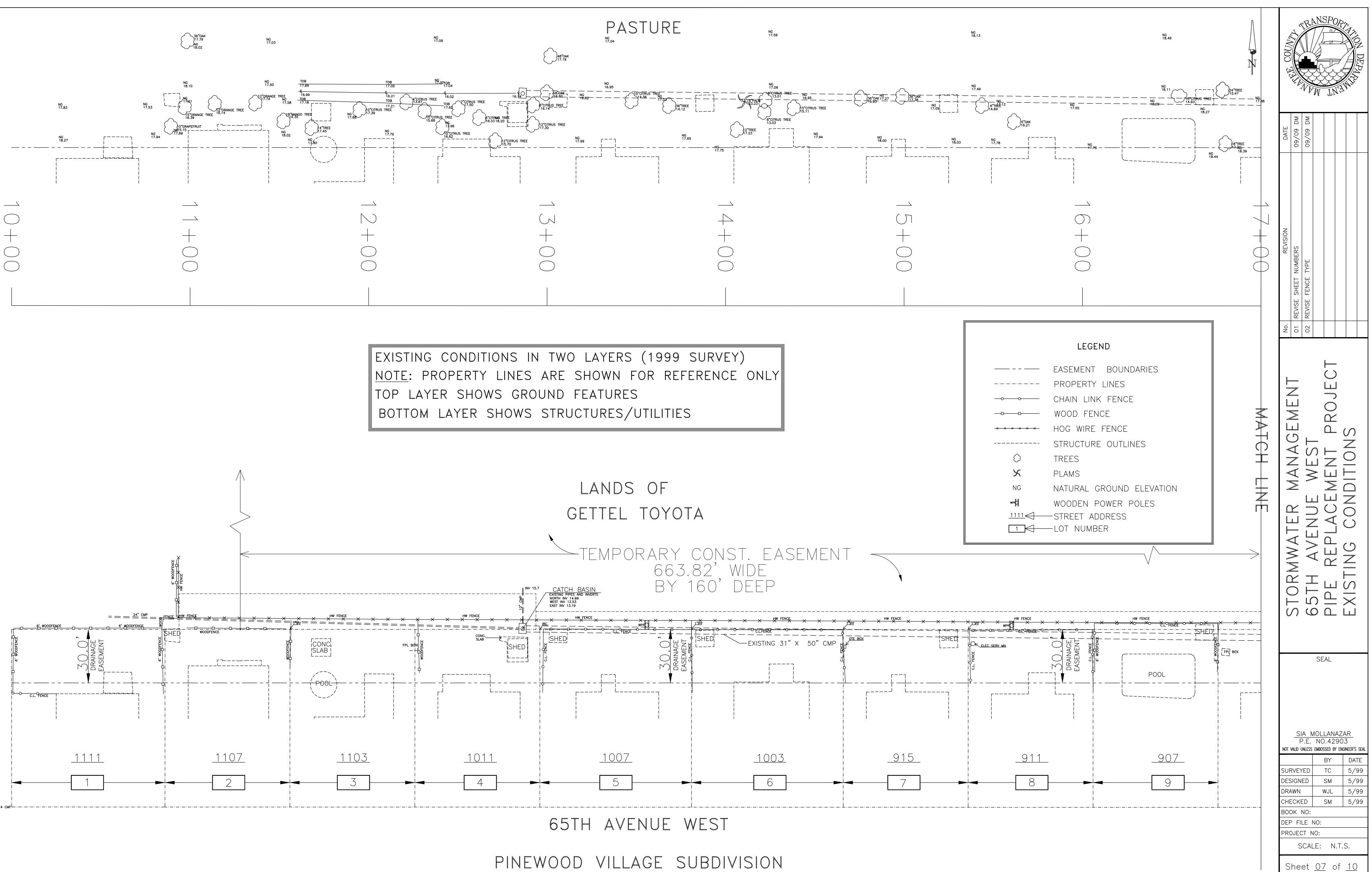
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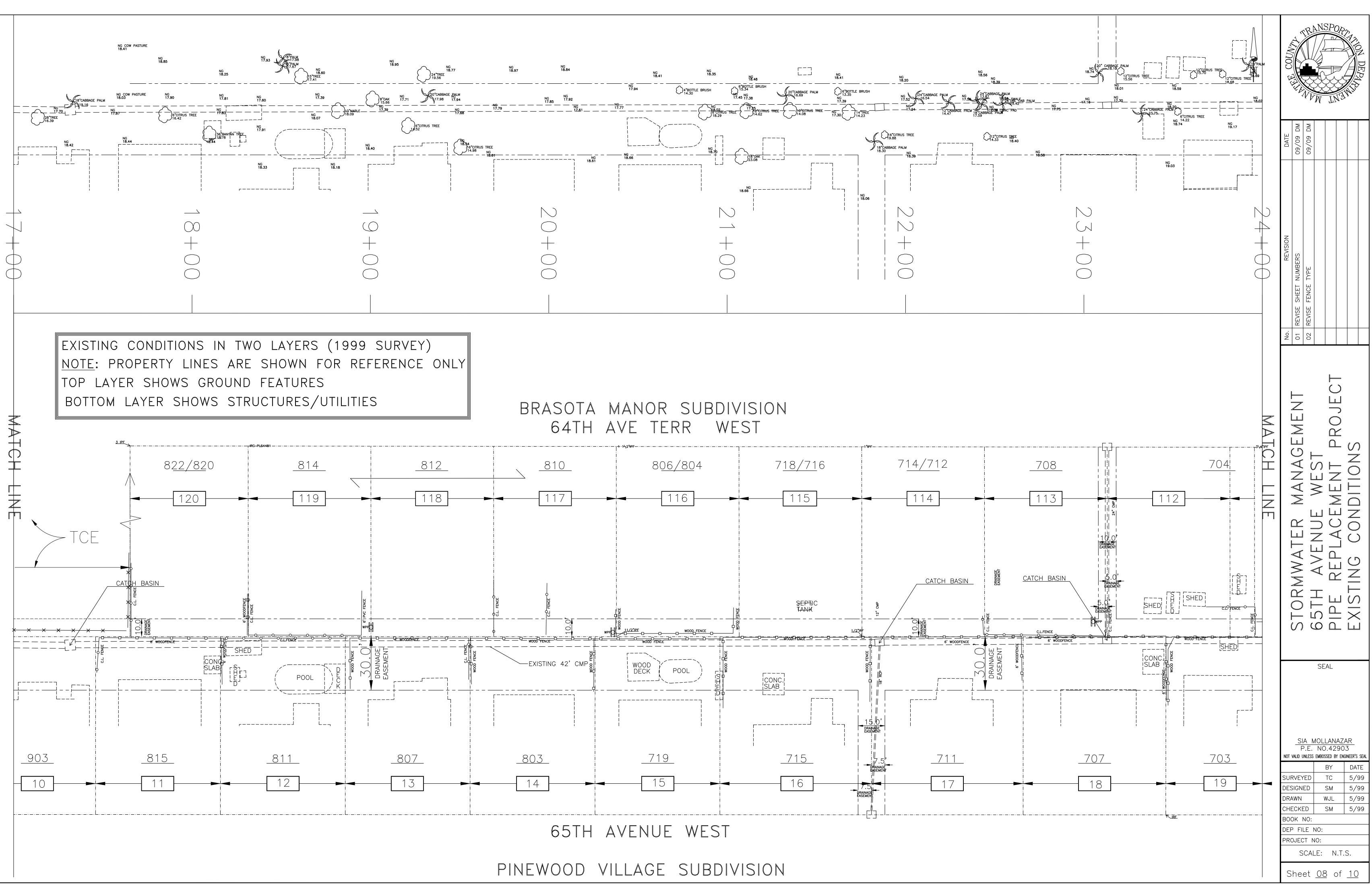
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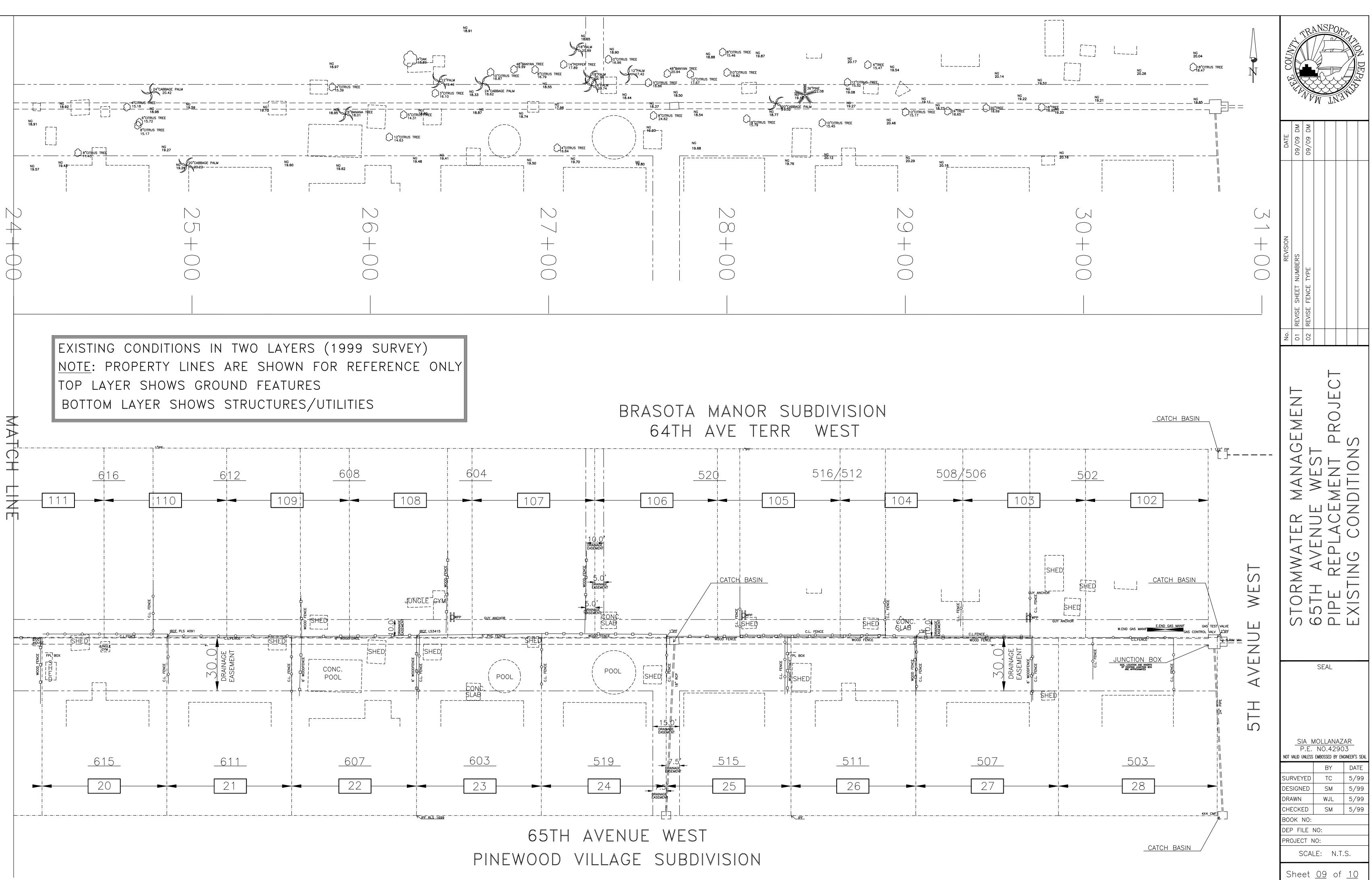
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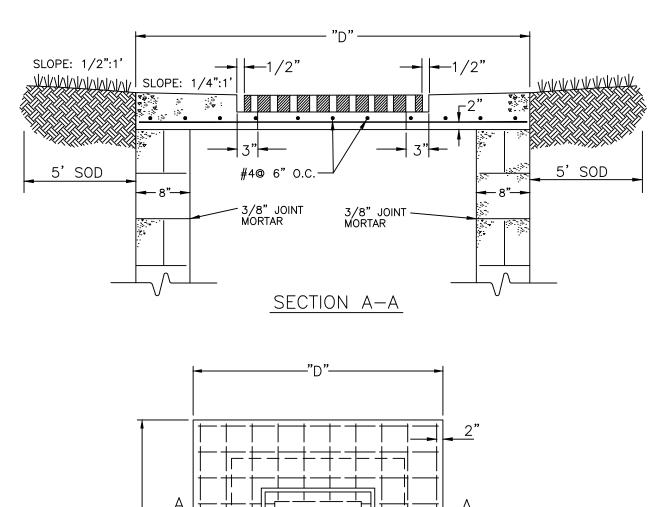
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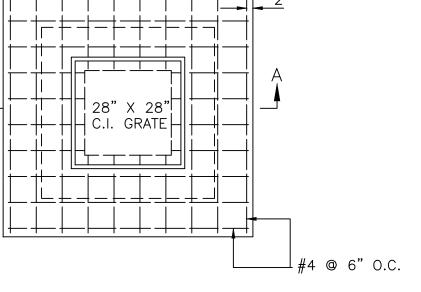
SCALE IN FEET











A) ALTERNATE C.I. GRATES, 18"X 24", 24"X 24", 28"X 36".

- B) SOD TO BE PLACED A MINIMUM OF 5' AROUND BOX.
- C) FOLLOWING MATERIALS ARE SPECIFIED IN FLORIDA D.O.T. SPEC'S., 1986. SEC 345 CONCRETE, SEC 962-8 IRON CASTING, SEC 931-1 REINFORCED STEEL.
- D) FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL).
- E) USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID. (SEE 202.2 D & E)
- F) SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.4 CATCH BASIN.
- G) PRECAST BOXES TO F.D.O.T. SPECIFICATIONS ARE AN ACCEPTABLE ALTERNATE; HOWEVER, PRECAST THIN WALL BOXES AS BEING MANUFACTURED TO F.D.O.T. SPECIFICATIONS ARE NOT ACCEPTABLE (8" ONLY).
- H) INVERT TO BE GROUTED (SEE 202.5).

NON TRAFFIC BEARING GRATE INLET

- PRECAST
- NON-TRAFFIC 6" BLOCK
- 8" EITHER WAY

DIMENSION INDEX													
PIPE SIZE	TYPE	"С'	"D"	"Е"	"F"	"G"	"H"						
12"	RCP	2'8"	4'	5'	4'	5'4"	6'4"						
15"	RCP	"	"	"	"	<b>9</b> 3	"						
18"	RCP	"	"	"	22	"	"						
14"X23"	RCP	**	>>	>>	>>	"	"						
24"	RCP	3'4"	4'8"	5'8"	<b>33</b>	<b>33</b>	>3						
30"	RCP	4'	5'4"	6'4"	"	"	>>						
19"X30"	RCP	<b>33</b>	**	**	>>	>>	"						
24"X38"	RCP	5'	6'4"	"	"	"	>>						
36" 29"x45" 42" 66"	RCP RCP RCP RCP	5' 5' 8'5"	6'4" 6'4" 6'4" 9'9"	" " 10'9"	" " 4'8"	" " 6'0"	" " 7'0"						

### <u>GENERAL NOTES</u>

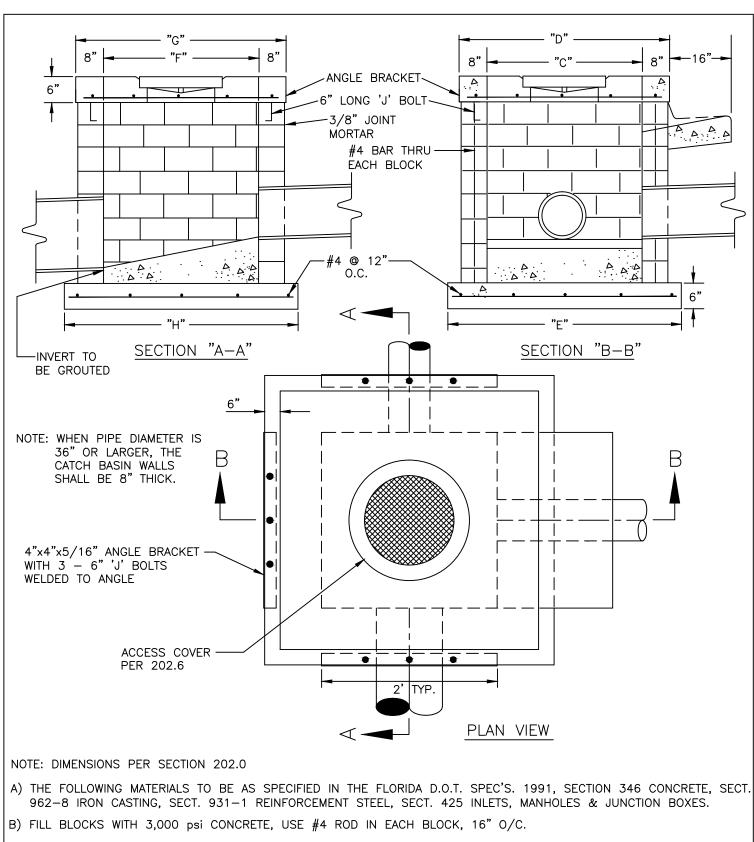
1. CONCRETE SHALL BE CLASS "1" AS SPECIFIED IN SECTION 345 OF FLORIDA D.O.T. SPECIFICATIONS.

2. SEE SECTION 425-2.2 "MORTAR" OF FLORIDA D.O.T. SPECIFICATIONS. 3. IRON CASTING SPECIFIED IN SECTION 962-8 OF FLORIDA D.O.T. SEE SECTION 425-5. SPECIFICATIONS.

4. REINFORCEMENT STEEL AS SPECIFIED IN SECTIONS 415 & 931.1 OF FLORIDA D.O.T. SPECIFICATIONS.

5. SEE SECTION 425-3.2 "GRATINGS" OF FLORIDA D.O.T. SPECIFICATIONS.

6. SEE SECTION 125 "EXCAVATION FOR STRUCTURES" OF FLORIDA D.O.T. SPECIFICATIONS. 7. PRECAST TO BE F.D.O.T. STANDARDS WITH MINIMUM TRAFFIC BEARING 8" THICKNESS.



C) 2" MINIMUM COVER ON ALL REBAR. D) USE #4 REBARS ON 6" CENTERS BOTH WAYS ON LID; NO.4 REBARS ON 12" CENTERS

BOTH WAYS ON FLOOR SLAB.

E) SEE SHEET 202.0 FOR GENERAL NOTES AND DIMENSION INDEX. F) ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".

G) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (2000) ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE. H) ALL PIPE ENTRIES TO CATCH BASIN TO BE GROUTED AND SEALED.

MANATEE COUNTY transportation department			
REV.BY	DATE		

DATE OF APPROVAL

TYPICAL CONC. BLOCK BOX

202.1

MANATEE COUNTY         RANATEE COUNTY         RANSPORTATION         DEPARTMENT			
DRAINAGE PIPE REPLACEMENT	65TH AVE. W. FROM 12TH ST. W. T 5TH ST. W.	urainage Siruciure deiails	
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REVISION	BY	DATE	
SURVEYED	TC	DATE 12/98	
SURVEYED DESIGNED DRAWN	TC WJL WJL	DATE 12/98 10/99 10/99	
SURVEYED DESIGNED	TC WJL	DATE 12/98 10/99	
SURVEYED DESIGNED DRAWN CHECKED FILE NO: PROJECT N	TC WJL WJL SM 0: <u>60460</u>	DATE 12/98 10/99 10/99 10/99	
SURVEYED DESIGNED DRAWN CHECKED FILE NO: PROJECT N VERTICAL S HORIZONTAL	TC WJL WJL SM 0: <u>60460</u> CALE: N <sup>-</sup>	DATE 12/98 10/99 10/99 10/99 00	
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