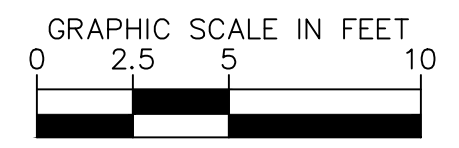
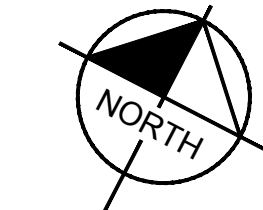


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LEGEND

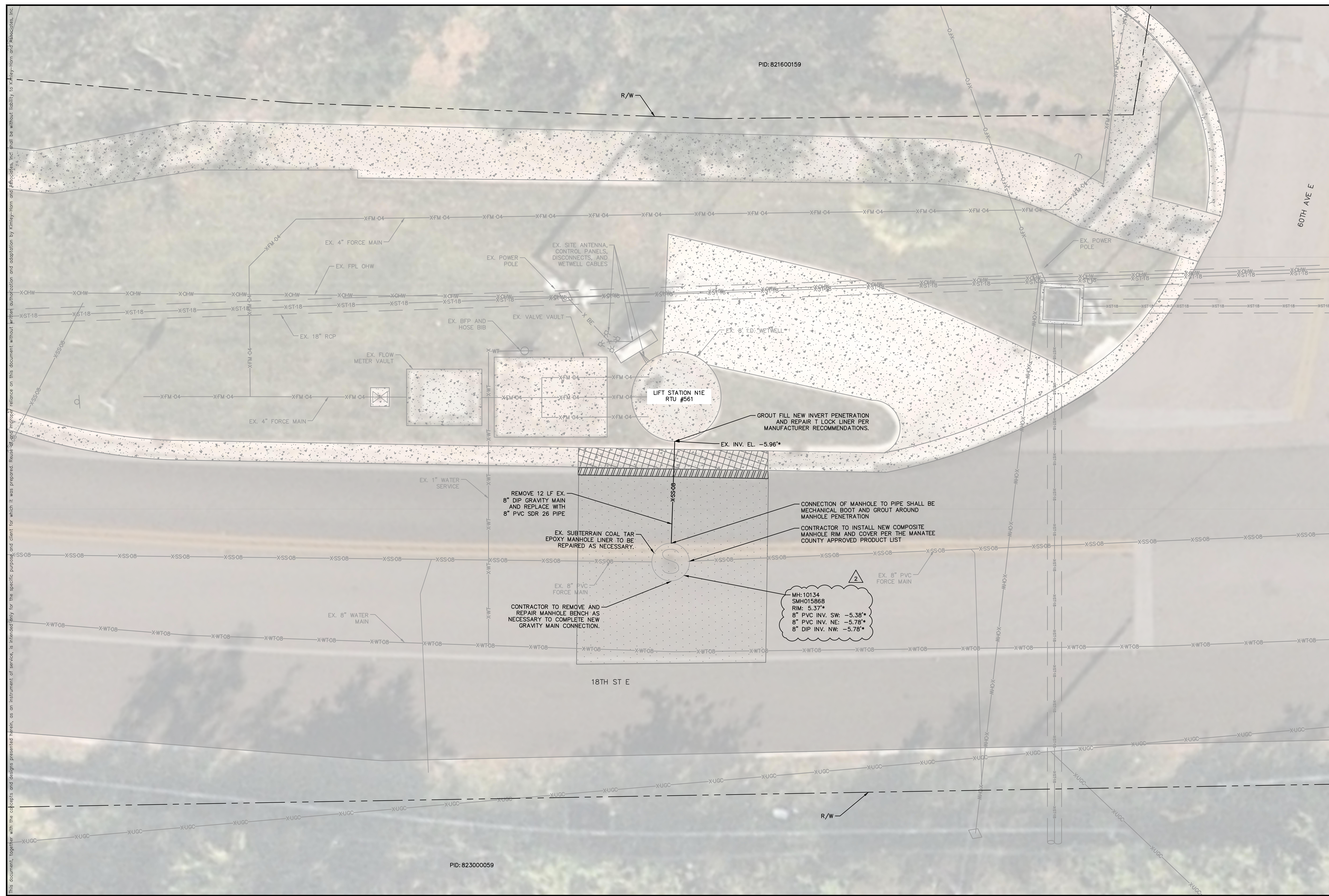
- OPEN CUT
- SIDEWALK/CONCRETE DRIVEWAY RESTORATION
- ASPHALT DRIVEWAY RESTORATION
- ASPHALT FULL ROAD RESTORATION
- CURB RESTORATION
- ASPHALT MILLINGS RESTORATION
- DEMOLISH/REMOVE

NOTES:

1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
2. EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION.
3. WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

(* ELEVATIONS ARE BASED ON MANATEE COUNTY RECORD DRAWINGS OBTAINED FROM MANATEE COUNTY GIS. A SURVEY OF THE EXISTING SITE AND INFRASTRUCTURE WAS NOT PERFORMED TO CONFIRM THE ELEVATIONS. CONTRACTOR TO CONFIRM DEPTH OF PIPE PRIOR TO BIDDING.

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



PID: 823000059

No.	REVISIONS	DATE	BY
1	ADDENDUM 2	10/23/23	

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400106
 DATE
OCT 2023
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY GMB
 CHECKED BY JWW

Manatee County FLORIDA

NORTH COUNTY METAL GRAVITY SEWER PIPE REPLACEMENTS

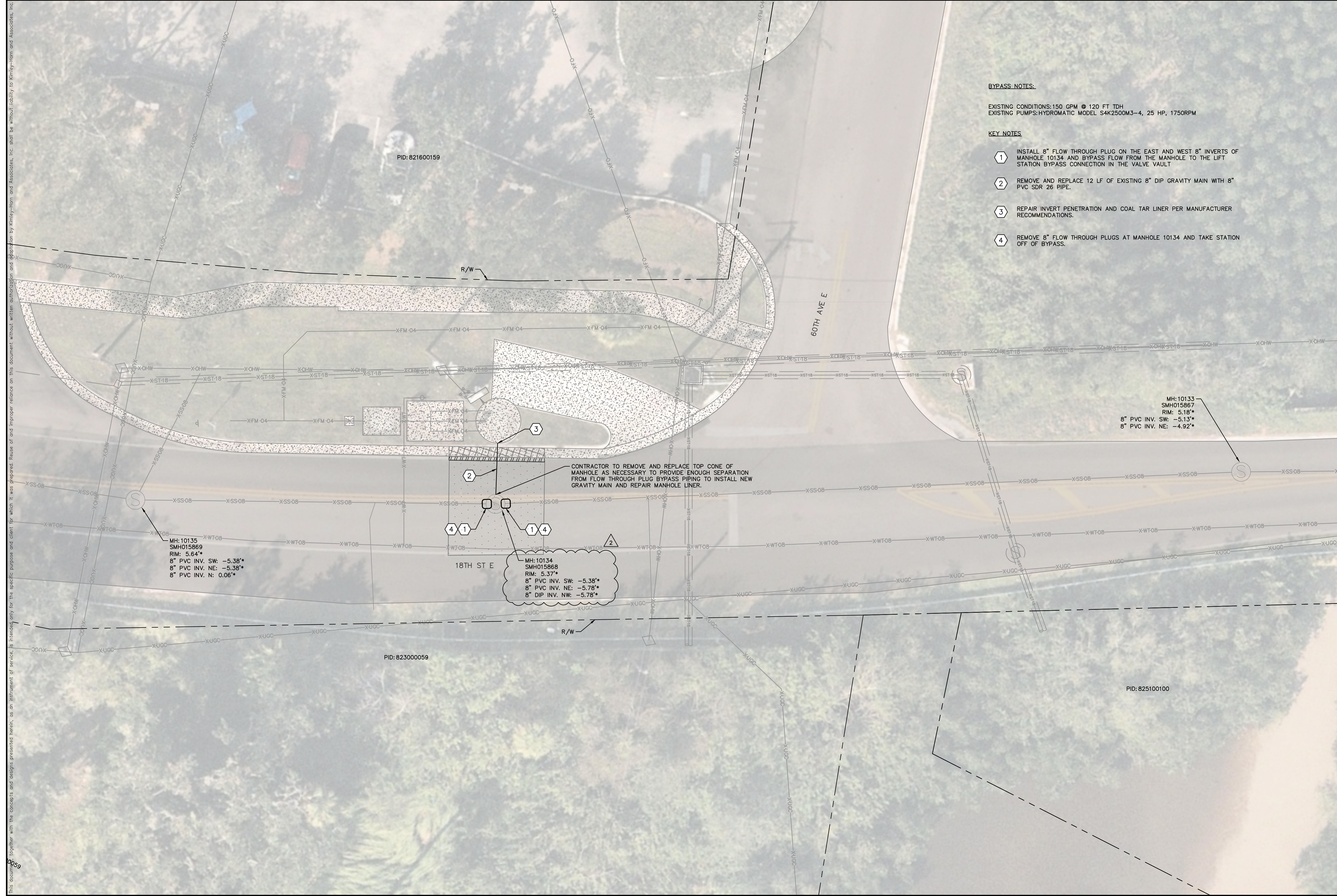
MANATEE COUNTY

LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER
87501

RTU 561 - LS N1E

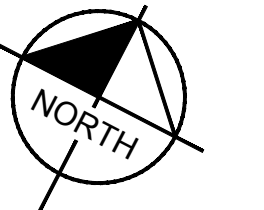
FL DATE:

SHEET NUMBER
C-3



BYPASS NOTES:
 EXISTING CONDITIONS: 150 CPM @ 120 FT TDH
 EXISTING PUMPS: HYDROMATIC MODEL S4K2500M3-4, 25 HP, 1750RPM

- KEY NOTES**
- 1 INSTALL 8" FLOW THROUGH PLUG ON THE EAST AND WEST 8" INVERTS OF MANHOLE 10134 AND BYPASS FLOW FROM THE MANHOLE TO THE LIFT STATION BYPASS CONNECTION IN THE VALVE VAULT
 - 2 REMOVE AND REPLACE 12 LF OF EXISTING 8" DIP GRAVITY MAIN WITH 8" PVC SDR 26 PIPE.
 - 3 REPAIR INVERT PENETRATION AND COAL TAR LINER PER MANUFACTURER RECOMMENDATIONS.
 - 4 REMOVE 8" FLOW THROUGH PLUGS AT MANHOLE 10134 AND TAKE STATION OFF OF BYPASS.



- LEGEND**
- OPEN CUT
 - SIDEWALK/CONCRETE DRIVEWAY RESTORATION
 - ASPHALT DRIVEWAY RESTORATION
 - ASPHALT FULL ROAD RESTORATION
 - CURB RESTORATION
 - ASPHALT MILLINGS RESTORATION
 - DEMOLISH/REMOVE

- NOTES:**
1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
 2. EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION.
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MH:10135
 SMH015869
 RIM: 5.64*
 8" PVC INV. SW: -5.38*
 8" PVC INV. NE: -5.38*
 8" PVC INV. N: 0.06*

MH:10134
 SMH015868
 RIM: 5.37*
 8" PVC INV. SW: -5.38*
 8" PVC INV. NE: -5.78*
 8" DIP INV. NW: -5.78*

MH:10133
 SMH015867
 RIM: 5.18*
 8" PVC INV. SW: -5.13*
 8" PVC INV. NE: -4.92*

CONTRACTOR TO REMOVE AND REPLACE TOP CONE OF MANHOLE AS NECESSARY TO PROVIDE ENOUGH SEPARATION FROM FLOW THROUGH PLUG BYPASS PIPING TO INSTALL NEW GRAVITY MAIN AND REPAIR MANHOLE LINER.

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1	ADDENDUM 2	10/23/23	

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
 148400106
 DATE
 OCT 2023
 SCALE AS SHOWN
 DESIGNED BY MAS
 DRAWN BY GMB
 CHECKED BY JWJ

Manatee County
 NORTH COUNTY METAL GRAVITY SEWER
 PIPE REPLACEMENTS
 MANATEE COUNTY

LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER
 87501

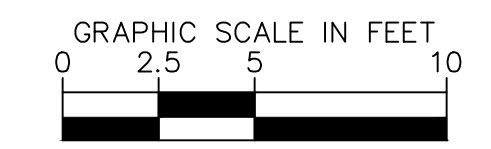
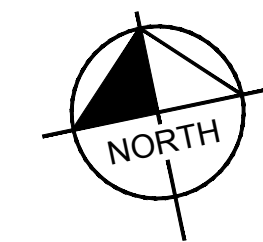
**BYPASS PLAN -
 RTU 561 - LS N1E**

SHEET NUMBER
C-4

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



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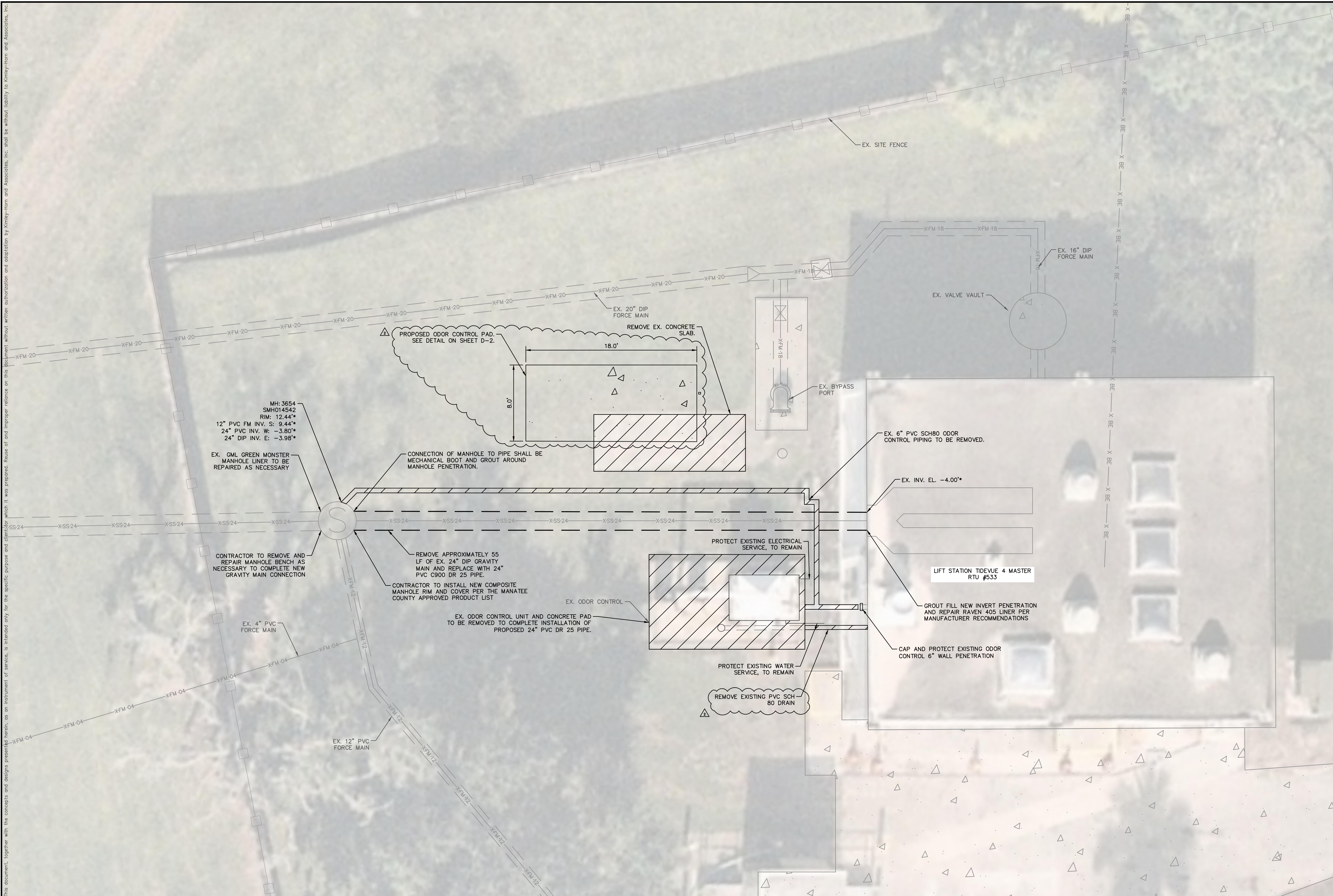
LEGEND

OPEN CUT	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
ASPHALT DRIVEWAY RESTORATION	
ASPHALT FULL ROAD RESTORATION	
CURB RESTORATION	
ASPHALT MILLINGS RESTORATION	
DEMOLISH/REMOVE	

- NOTES:**
- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
 - EXISTING GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION.
 - WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

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GROUNDWATER / DEWATERING NOTE:
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Manatee County FLORIDA

NORTH COUNTY METAL GRAVITY SEWER PIPE REPLACEMENTS

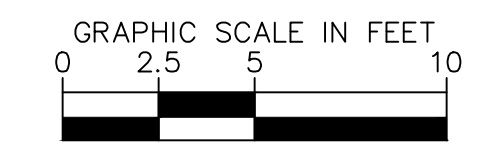
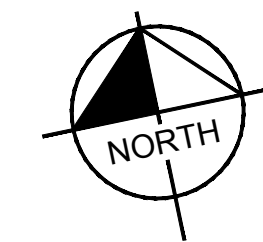
MANATEE COUNTY

LICENSED PROFESSIONAL
 MICHAEL A. SEMAGO, P.E.
 FL LICENSE NUMBER
87501

RTU 533 - TIDEVUE 4 MLS

FL DATE:

SHEET NUMBER
C-5



LEGEND

- OPEN CUT
- SIDEWALK/CONCRETE DRIVEWAY RESTORATION
- ASPHALT DRIVEWAY RESTORATION
- ASPHALT FULL ROAD RESTORATION
- CURB RESTORATION
- ASPHALT MILLINGS RESTORATION
- DEMOLISH/REMOVE

NOTES:

1. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
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BYPASS NOTES:

EXISTING CONDITIONS: 1629 GPM @ 150 FT TDH
EXISTING PUMPS: HYDROMATIC MODEL SD4T1000M4.4, 100 HP

KEY NOTES:

1. INSTALL 24" FLOW THROUGH PLUG ON THE WEST 24" INVERT AND BYPASS FLOW FROM THE MANHOLE TO THE LIFT STATION WET WELL.
2. CUT 90° BEND INTO THE EXISTING 12" FORCE MAIN AND INSTALL TEMPORARY 12" FORCE MAIN PIPING TO THE LIFT STATION WET WELL THROUGH THE WET WELL TEMPORARY BUILDING DOOR. CONTRACTOR TO INSTALL TEMPORARY PLYWOOD DOOR OVER BYPASS PIPING TO SEAL OFF THE WET WELL.
3. RELOCATE EXISTING WATER SERVICE, ELECTRICAL SERVICE, AND DUCT PIPING. INSTALL NEW DUCT PIPING FROM TEMPORARY SKID THROUGH PLYWOOD DOOR INTO THE WET WELL.
4. REMOVE AND REPLACE 55 LF OF EXISTING 24" D.I. GRAVITY MAIN AND REPLACE WITH 24" PVC C900 DR-25 PIPE UP TO LIFT STATION PENETRATION.
5. COORDINATE WITH MANATEE COUNTY LIFT STATION OPERATIONS TO LOWER OPERATING RANGE IN LIFT STATION WET WELL.
6. GROUT FILL NEW INVERT PENETRATION AND REPAIR FLOW CHANNEL RAVEN 405 LINER AS NECESSARY PER MANUFACTURER RECOMMENDATIONS.
7. REMOVE TEMPORARY 12" BYPASS PIPING AND RECONNECT THE 12" FORCE MAIN TO EXISTING MANHOLE 3654 WITH D.I. SLEEVES AND 12" PVC C900 DR18 PIPE.
8. REMOVE 24" FLOW THROUGH PLUG AT THE MANHOLE INVERT AND TAKE STATION OF BYPASS.
9. INSTALL PERMANENT 16" ODOR CONTROL PVC SCH80 DUCTWORK PIPING AND RECONNECT TO THE WET WELL AND MANHOLE 3654.
10. CONTRACTOR TO INSTALL NEW ODOR CONTROL PAD, PLACE ODOR CONTROL UNIT, INSTALL PVC SCH80 DUCTWORK, RECONNECT ELECTRICAL SERVICE, RECONNECT DRAIN, AND RECONNECT WATER SERVICE. SEE DETAILS ON SHEET D-4 FOR ODOR CONTROL LAYOUT

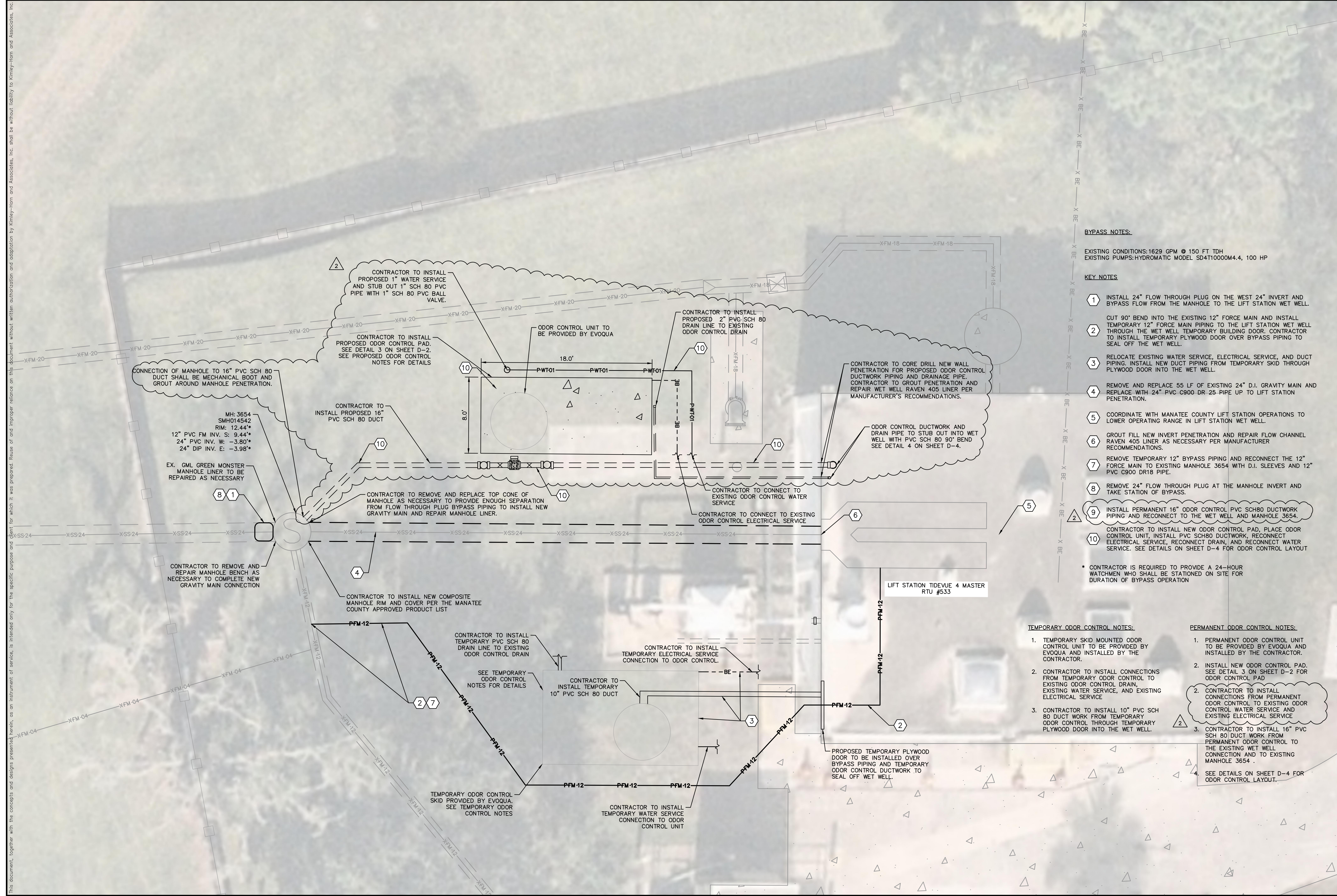
* CONTRACTOR IS REQUIRED TO PROVIDE A 24-HOUR WATCHMEN WHO SHALL BE STATIONED ON SITE FOR DURATION OF BYPASS OPERATION

TEMPORARY ODOR CONTROL NOTES:

1. TEMPORARY SKID MOUNTED ODOR CONTROL UNIT TO BE PROVIDED BY EVOQUA AND INSTALLED BY THE CONTRACTOR.
2. CONTRACTOR TO INSTALL CONNECTIONS FROM TEMPORARY ODOR CONTROL TO EXISTING ODOR CONTROL DRAIN, EXISTING WATER SERVICE, AND EXISTING ELECTRICAL SERVICE
3. CONTRACTOR TO INSTALL 10" PVC SCH 80 DUCT WORK FROM TEMPORARY ODOR CONTROL THROUGH TEMPORARY PLYWOOD DOOR INTO THE WET WELL.

PERMANENT ODOR CONTROL NOTES:

1. PERMANENT ODOR CONTROL UNIT TO BE PROVIDED BY EVOQUA AND INSTALLED BY THE CONTRACTOR.
2. INSTALL NEW ODOR CONTROL PAD. SEE DETAIL 3 ON SHEET D-2 FOR ODOR CONTROL PAD
2. CONTRACTOR TO INSTALL CONNECTIONS FROM PERMANENT ODOR CONTROL TO EXISTING ODOR CONTROL WATER SERVICE AND EXISTING ELECTRICAL SERVICE
3. CONTRACTOR TO INSTALL 16" PVC SCH 80 DUCT WORK FROM PERMANENT ODOR CONTROL TO THE EXISTING WET WELL CONNECTION AND TO EXISTING MANHOLE 3654.
4. SEE DETAILS ON SHEET D-4 FOR ODOR CONTROL LAYOUT.



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No.	REVISIONS	DATE	BY
1	ADDENDUM 2	10/23/23	

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400106
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Manatee County

NORTH COUNTY METAL GRAVITY SEWER PIPE REPLACEMENTS

MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER
87501

BYPASS PLAN - RTU 533 - TIDEVUE 4 MLS

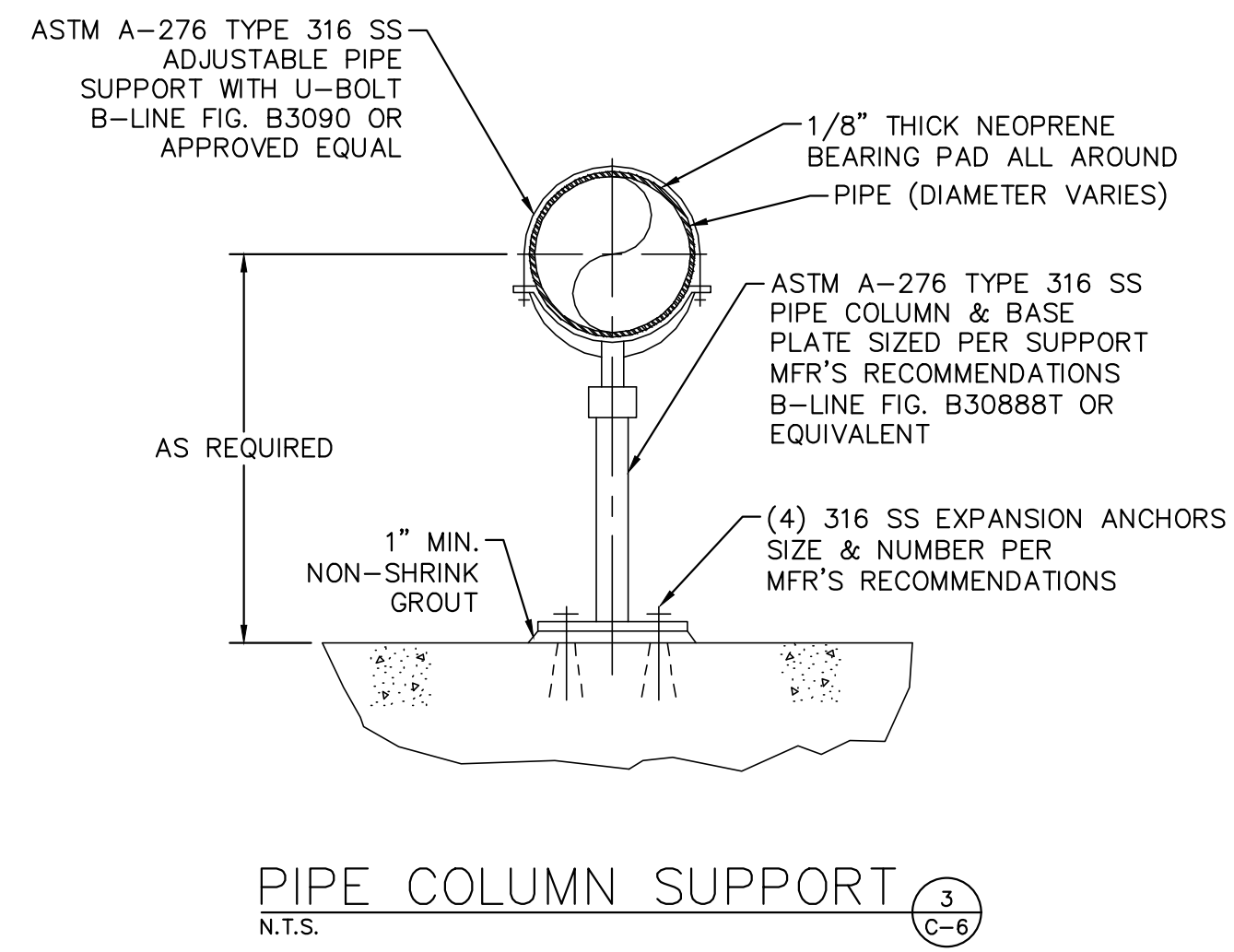
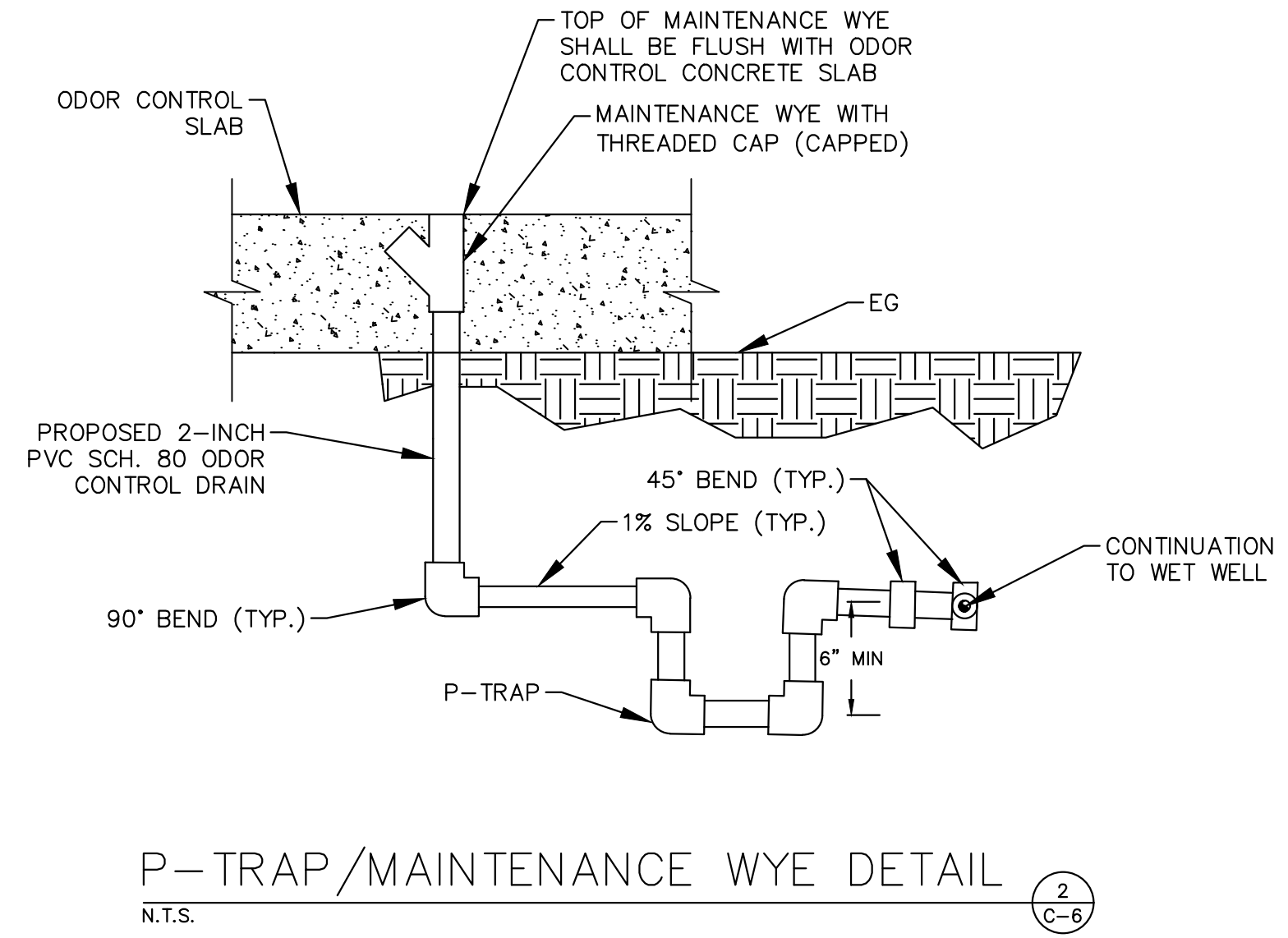
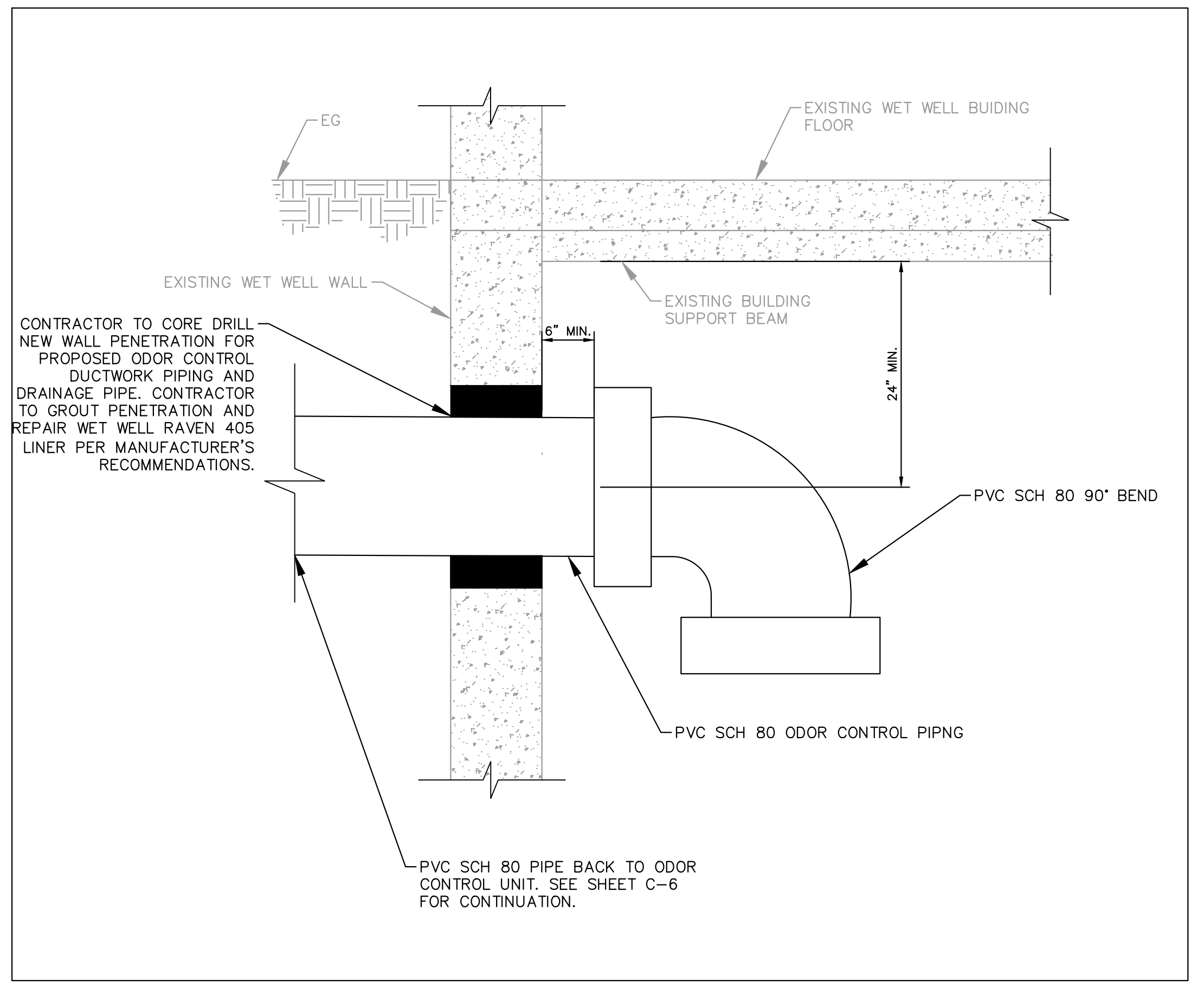
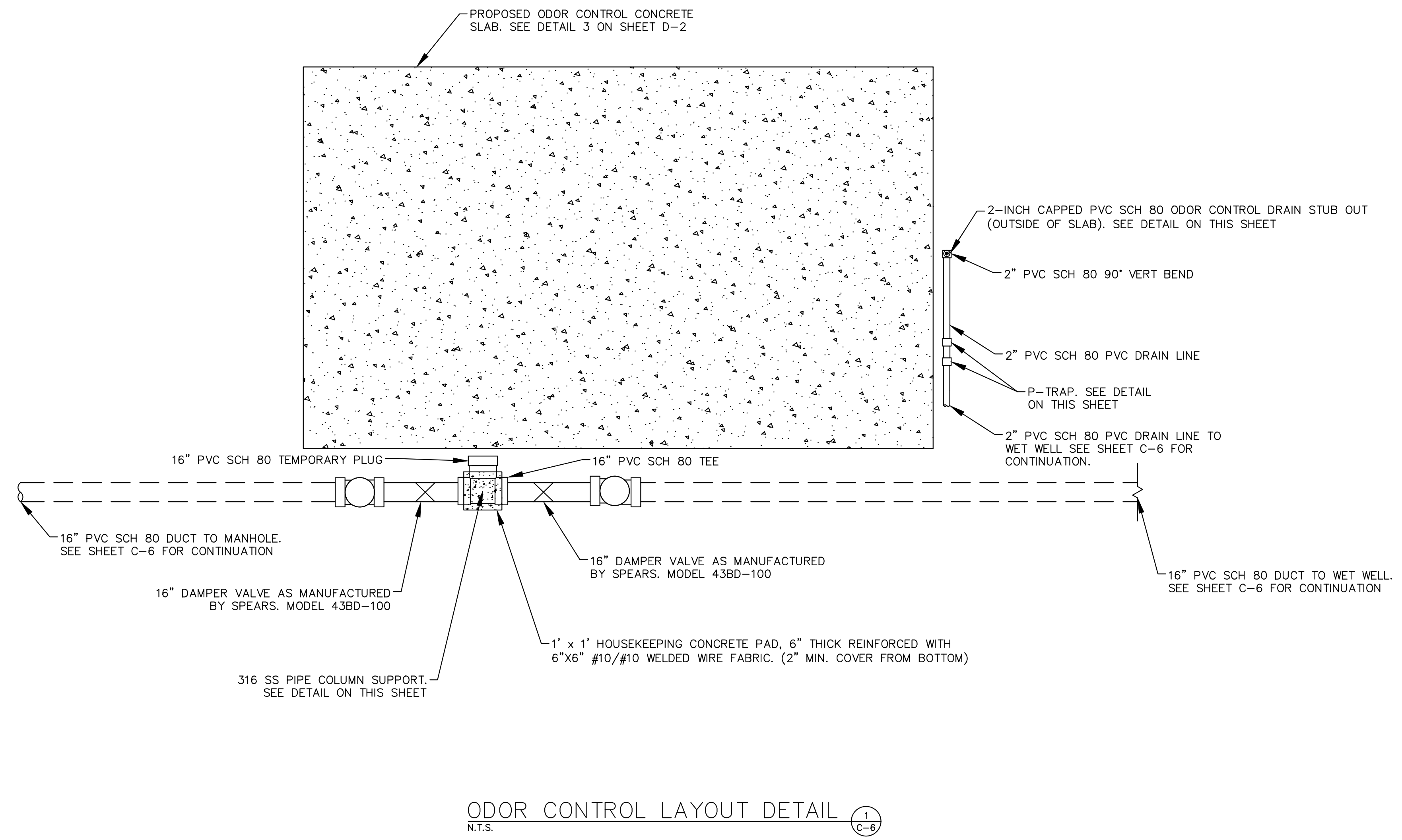
SHEET NUMBER
C-6

GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



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Manatee County FLORIDA

NORTH COUNTY METAL GRAVITY SEWER PIPE REPLACEMENTS

MANATEE COUNTY

LICENSED PROFESSIONAL	MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER	87501

CIVIL DETAILS

SHEET NUMBER	D-4
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