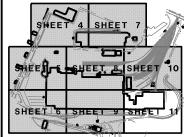
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Mannik & Smith

Civil Engineering, Surveying and Environmental Consulting



KEY PLAN

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Δ	11/9/2012	LLH	SITE PLAN SUBMITTA
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BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA

PRINT NAME: <u>Jeffrey Lynn Snyder</u>

SIGNATURE: ____

DATE: _____ LICENSE # _50097

BUILDING SLAB REMOVAL

ASPHALT SURFACE REMOVAL

CONCRETE SURFACE REMOVAL

--- SAWCUT AS REQUIRED

PHASE 2 SLAB AND PAVEMENT SURFACE REMOVAL

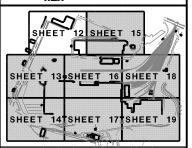
PROJECT
TWIN CITIES ASSEMBLY PLANT
SAINT PAUL, MINNESOTA

FORDLAND

Mannlk 🖄 Smith

Civil Engineering, Surveying and Environmental Cons-

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TO VERIFY EXISTING UTILITY LOCATIONS.
REFER TO GRADING AND DRAINAGE SHEETS FOR STORM SEWERS TO REMAIN.

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UTILITY COORDINATION NOTES

FOR REMOVAL OF EXISTING ABOVE GROUND GAS, METERS AND UNDERGROUND CAPS CONTACT XCEL ENERGY BUILDERS AND REQUEST REMOVALS, I-800-628-2121. PROVIDE ADEQUATE NOTICE TO MAINTAIN PROJECT

SERVICE FOR DISCONNECTION AND CAPPING OF EXISTING AND ABANDONED WATER SERVICES. CAPS MUST BE OBSERVED BY SAINT PAUL BACKFILL AND CLOSING OF PERMIT. EXISTING WATER METER. NEW METERING

CONTRACTOR.

SCHEDULE.

COORDINATE WITH SAINT PAUL REGIONAL WATER REGIONAL WATER SERVICE INSPECTOR PRIOR TO COORDINATE WITH SAINT PAUL REGIONAL WATER SERVICE FOR REMOVAL AND/OR RELOCATION OF MANHOLE FURNISHED AND INSTALLED BY

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GENERAL NOTES

SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING
UTILITIES. INFORMATION OBTAINED SHALL BE REVIEWED WITH ENGINEER FOR AGREEMENT PRIOR

CONTRACTOR SHALL REPAIR IMMEDIATELY, AT HIS OWN EXPENSE, ANY DAMAGE EXTERIOR TO THE LIMITS OF PHASE 2 AND 3 TO EXISTING UTILITIES, CURBS, DRIVEWAYS, LANDSCAPING AND OTHER STRUCTURES TO THE ENGINEER'S AND OWNER'S SATISFACTION.

CONTRACTOR SHALL COORDINATE INSPECTIONS WITH CITY OF SAINT PAUL FOR CLOSING OPEN WATER AND SEWER PERMITS. CONTRACTOR SHALL COORDINATE WITH UTILITY

COMPANIES AS NECESSARY TO ENSURE THE

BUILDINGS TO REMAIN. ALL UTILITY CAPS SHALL MEET THE REOUIREMENTS OF MINNESOTA STATE PLUMBING CODE. UTILIZE MECHANICAL FITTINGS AS NECESSARY FOR PIPE MATERIAL TRANSITIONS.

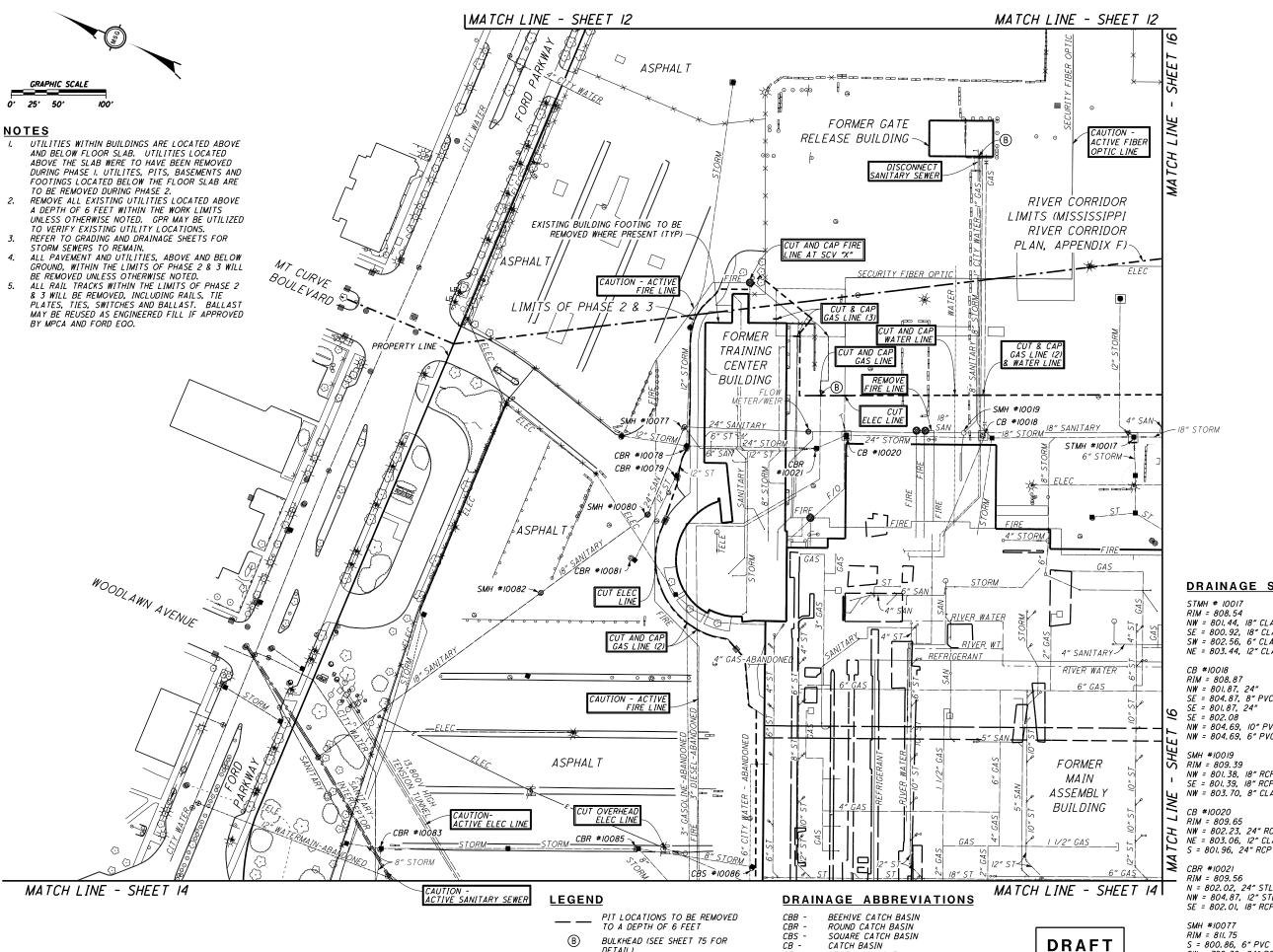
TO A DEPTH OF 6 FEET $^{\circ}$

BULKHEAD (SEE SHEET 75 FOR DFTAIL) --- SAWCUT AS REQUIRED

PROJECT
ES ASSEMBLY PL
PAUL, MINNESOTA

IN CITI SAINT

FEET



DETAIL)

--- SAWCUT AS REQUIRED

STORM MANHOLE

SANITARY MANHOLE

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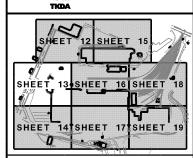
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DATE: _____ LICENSE # 50097

DRAINAGE STRUCTURE DETAILS

CBR #10078 RIM = 811.33 N = 804.43, 12" RCP

RIM = 810.84E = 804.55, 12" RCP W = 804.55, 12" RCP

SMH #10080

RIM = 811.02

NW = 799.23

CBR #10081

RIM = 810.17

SMH #10082

RIM = 810.51

CBR #10083

RIM = 807.93

E = 804.22, 12" RCP

W = 804.48, 12" RCP

S = 803.77, 24" RCP

E = 799.20, 24" RCP SE = 799.53, 15" RCP

E = 805.48, 12" RCP

NE = 798.60. 18" RCP

NW = 798.51, 18" RCP

NW = 806.33, 8" PVC

NW = 806.28, 8" CLAY

STMH # 10017 RIM = 808.54NW = 801.44. 18" CLAY SE = 800.92, 18" CLAY SW = 802.56, 6" CLAY NE = 803.44, 12" CLAY

RIM = 808.87 NW = 801.87, 24" SE = 804.87, 8" PVC SE = 801.87, 24" SE = 802.08 NW = 804.69. 10" PVC NW = 804.69, 6" PVC

SMH #10019 RIM = 809.39 NW = 801.38, 18" RCP SE = 801.39, 18" RCP NW = 803.70. 8" CLAY

CB #10020 RIM = 809.65NW = 802.23, 24" RCP NE = 803.06, 12" CLAY S = 801.96, 24" RCP

> RIM = 809.56 N = 802.02, 24" STL NW = 804.87. 12" STI SE = 802.01, 18" RCP

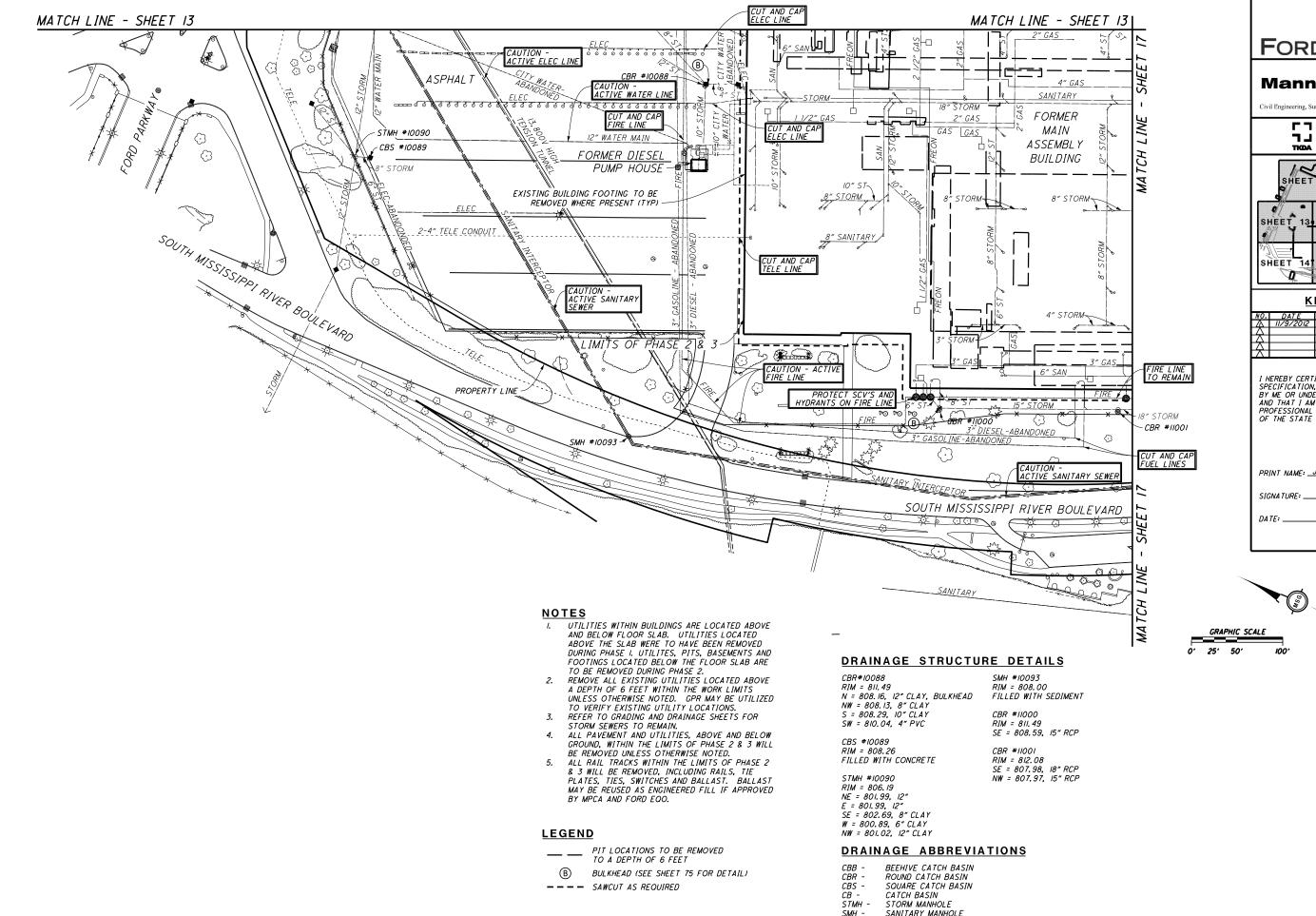
SE = 799.46, 24" RCP

CBR #10085 RIM = 809.81 W = 808.16, 8" CLAY SW = 799.38, 24" RCP

CBS #10086 RIM = 812.01 TWIN CITI

PROJECT ES ASSEMBLY PL/ PAUL, MINNESOTA

W = 809.66, 8" STL



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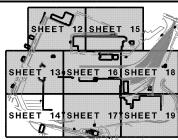
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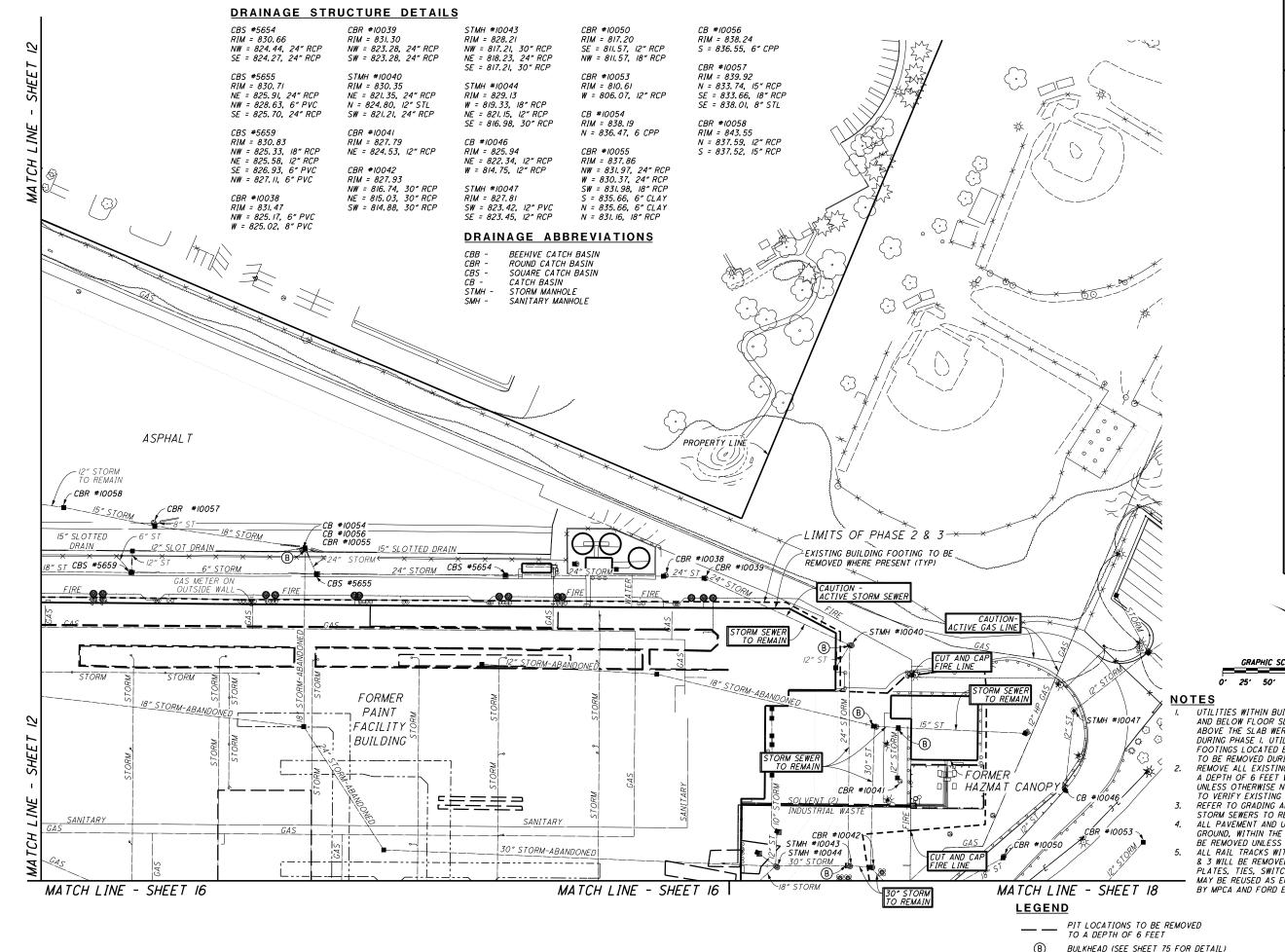
PRINT NAME: <u>Jeffrey Lynn Snyder</u>

DATE: _____ LICENSE # 50097

PROJECT
TWIN CITIES ASSEMBLY PLANT
SAINT PAUL, MINNESOTA

14

SANITARY MANHOLE



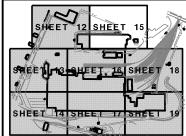
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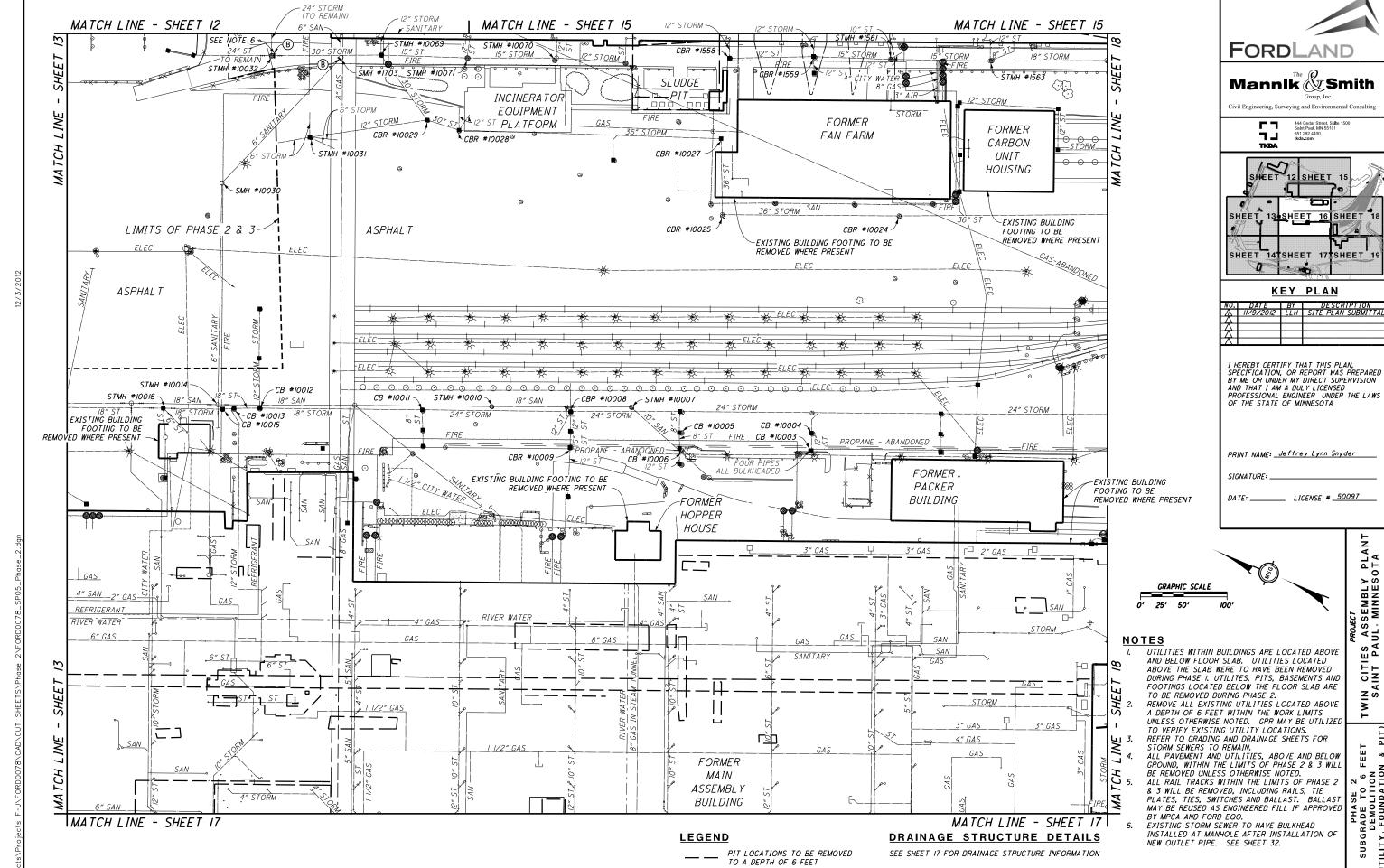
BULKHEAD (SEE SHEET 75 FOR DETAIL)

--- SAWCUT AS REQUIRED

PROJECT IES ASSEMBLY PLANT PAUL, MINNESOTA

IN CITI SAINT

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BULKHEAD (SEE SHEET 75 FOR DETAIL)

--- SAWCUT AS REQUIRED

0





IMATCH LINE - SHEET 16

8" SANITARY

8" STORM■

S" SANITARY

****BC

RIM = 831.80

CBR #1559

RIM = 832 01

STMH #1561

RIM = 831 79

STMH #1563

RIM = 831.97

NE = 827.70, 12" STL SE = 827.68, 12" RCP

NW = 827.45, 12" RCP

NE = 828.36, 12" STL

SW = 827.21, 12" CLAY

NW = 826.24, 15" RCP

SE = 827.94, 12" STL

SE = 826.24, 15" RCP

SE = 830.27. 8" PVC

NW = 824.08, 15" RCP

NE = 826.21, 10" CLAY

SE = 827.17. 15" RCP

CAUTION - ACTIVE SANITARY SEWE

SOUTH RIVER MISSISSIPPI BLVD

24" STORM

0

CB #10003 RIM = 807.37 NW = 799.62, 24" RCP, BULKHEAD NE = 799.81, 12" RCP, BULKHEAD W = 800.18, 8" STL, BULKHEAD SE = 799.81, 24" RCP, BULKHEAD CB #10004 RIM = 807.55CB #10005 RIM = 807.61

1,3

NE = 803.41, 8" STL SW = 803.56, 8" STL CB #10006 RIM = 807.53 SW = 804.08, 12" RCP

NE = 803.74. 8" STL STMH #10007 RIM = 807.77NW = 805.86, 18" RCP SW = 805.77, 10" PVC

NW = 800.25, 24" RCP SE = 800.19, 24" RCP NE = 801.07, 24" CLAY SW = 801.45, 12" STL SW = 803.14, 12" RCP

DRAINAGE STRUCTURE DETAILS - FROM PAGE 26 CBR #10009 RIM = 807.87SW = 804.48, 12" CLAY NE = 803.93, 6" STL

Ť

- CBR' #11002 B

_____CBR_#1<u>1010</u> ___

BUILDING RAZED

AS PART OF PHASE I.

FOUNDATION REMAINS.

MAINTAIN EXISTING SANITARY

Men washing the

SEWER FROM WWT AND HYDRO PLANT

W2 W2 W2

MAINTAIN EXISTING SANITARY SEWER FROM WWTP AND HYDRO PLANT

STMH #10010 RIM = 808 33

NW = 805.03, 18" RCP SE = 804.94, 18" RCP CB #IOOII RIM = 808.16

SW = 803.57, 8" CLAY CB #10012 RIM = 808.83

NW = 800.88, 18" RCP NE = 805.48. 12" PVC SE = 800.78, 18" RCP CB #10013 RIM = 808.66

NW = 801.01, 18" RCP SE = 800.93, 18" RCP SW = 802.01, 12" PVC SW = 803.96, 12" PVC

STMH #10014 RIM = 807.81 NW = 803.09, 18" RCP NE = 804.01. 6" STL SE = 803.31, 18" RCP

FORMER

MAIN

ASSEMBL Y

BUILDING

6" SAN

SW = 803.43, 6" STL CB #10015 RIM = 807.75NW = 801.03 18" RCP SE = 800.87, 18" PVC

STMH #10016 RIM = 808 20 NW = 802.50, 18" RCP SE = 802.61, 18" RCP SW = 803.18, 6" STL

CBR #10024 RIM = 809.55NW = 802.33, 36" SE = 802.36, 36"

RIM = 811.11

CBR #10025 RIM = 809.32NE = 803.16. 36" RCP SE = 803.06, 36" RCP CBR #10027

NW = 803.56, 36" RCP SE = 814.92, 30" RCP SW = 803.66. 36" RCP

CBR #10028 RIM = 813.82 N = 805.62, 30" RCP NE = 807.33, 12" RCP, BULKHEAD E = 808.80, 12" RCP

CAUTION - ACTIV SANITARY SEWER

(3

B

(3) (B)*

SWY WY WY

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SEE NOTE 6

REMOVED WHERE PRESENT (TYP)

EXISTING BUILDING FOOTING TO BE

CAUTION ACTIVE

IRE LINE

CAUTION - ACTIVE STORM SEWER

STMH #10069

RIM = 827.44

STMH #10070

RIM = 831.75

STMH #IOO71

RIM = 853.74

NW = 813.32, 30" RCP SW = 812.91, 30" RCP

SE = 820.44, 15" RCP

NE = 823.09, 12" STL

NW = 822.23, 15" RCP

NF = 827.00. 12" STI

SE = 822.23, 12" RCP

NW = 843.14, 15" RCP

NE = 848.91, 12" STL

SE = 843.14. 15" RCF

SE = 805.20, 36" RCP CBR #10029 RIM = 814.01NW = 808 45 12" RCP NF = 807.46. 30" RCP

SE = 806.96, 30" RCP SMH #10030 RIM = 813.51SW = 806.56, 6" E = 806.56, 6"

STMH #10031 RIM = 818.63NW = 814.69, 6" PVC S = 814.78. 6" PVC SE = 814.65, 6" PVC NE = 814.65, 6" PVC SE = 814.57, 12" RCP

STMH #10032 RIM = 825.46NW = 816 80 24" RCP NE = 816.28, 24" RCP

DRAINAGE STRUCTURE **DETAILS - THIS PAGE**

CB #10092 RIM = 807.96NE = 802.51, 8" CLAY N = 802.56. 6" CLAY S = 802.47, 12" CLAY

18" ST

4" GAS SANITARY

CUT AND CAP FIR LINE AT SCV "F"

GAS

PROPERTY LINE

CAUTION - ACTIV SANITARY SEWER

CUT AND CAP AIR LINE AT PROPERTY LINE

-

-

4" STORM-

GAS

800

CBR #11002 RIM = 812.08NW = 807.17, 15" RCP SE = 807.13, 18" RCP

SMH #11004 RIM = 809.89

CBR #IIOIO RIM = 811.98 NW = 806.55, 18" RCP SE = 806.52, 18" RCP

CBR #11013 RIM = 811.21 NW = 808.02, 15" RCP

LEGEND

PIT LOCATIONS TO BE REMOVED TO A DEPTH OF 6 FEET

BULKHEAD (SEE SHEET 75 FOR DETAIL)

--- SAWCUT AS REQUIRED



S" GAS

Ø

DRAINAGE ABBREVIATIONS BEEHIVE CATCH BASIN CBB CBR ROUND CATCH BASIN

CBS -SQUARE CATCH BASIN CB -CATCH RASIN STORM MANHOLE STMH SANITARY MANHOLE

NOTES

MATCH LINE - SHEET 161

4" SANITARY

2" GAS

CBR #11013 =

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 \bigcirc

LIMITS OF PHASE

SOUTH MISSISSIPPI RIVER BOULEVARD

6" GAS

_

~ 8" ST

4 1/2 GAS

2" GAS

15" STORM B CB #10092

Z

UTILITIES WITHIN BUILDINGS ARE LOCATED ABOVE AND BELOW FLOOR SLAB. UTILITIES LOCATED ABOVE THE SLAB WERE TO HAVE BEEN REMOVED DURING PHASE I. UTILITES, PITS, BASEMENTS AND FOOTINGS LOCATED BELOW THE FLOOR SLAB ARE TO BE REMOVED DURING PHASE 2.

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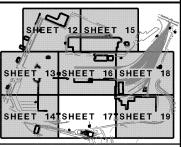
ALL UTILITIES WITHIN STEAM TUNNEL WILL BE CUT AND CAPPED AT PROPERTY LINE



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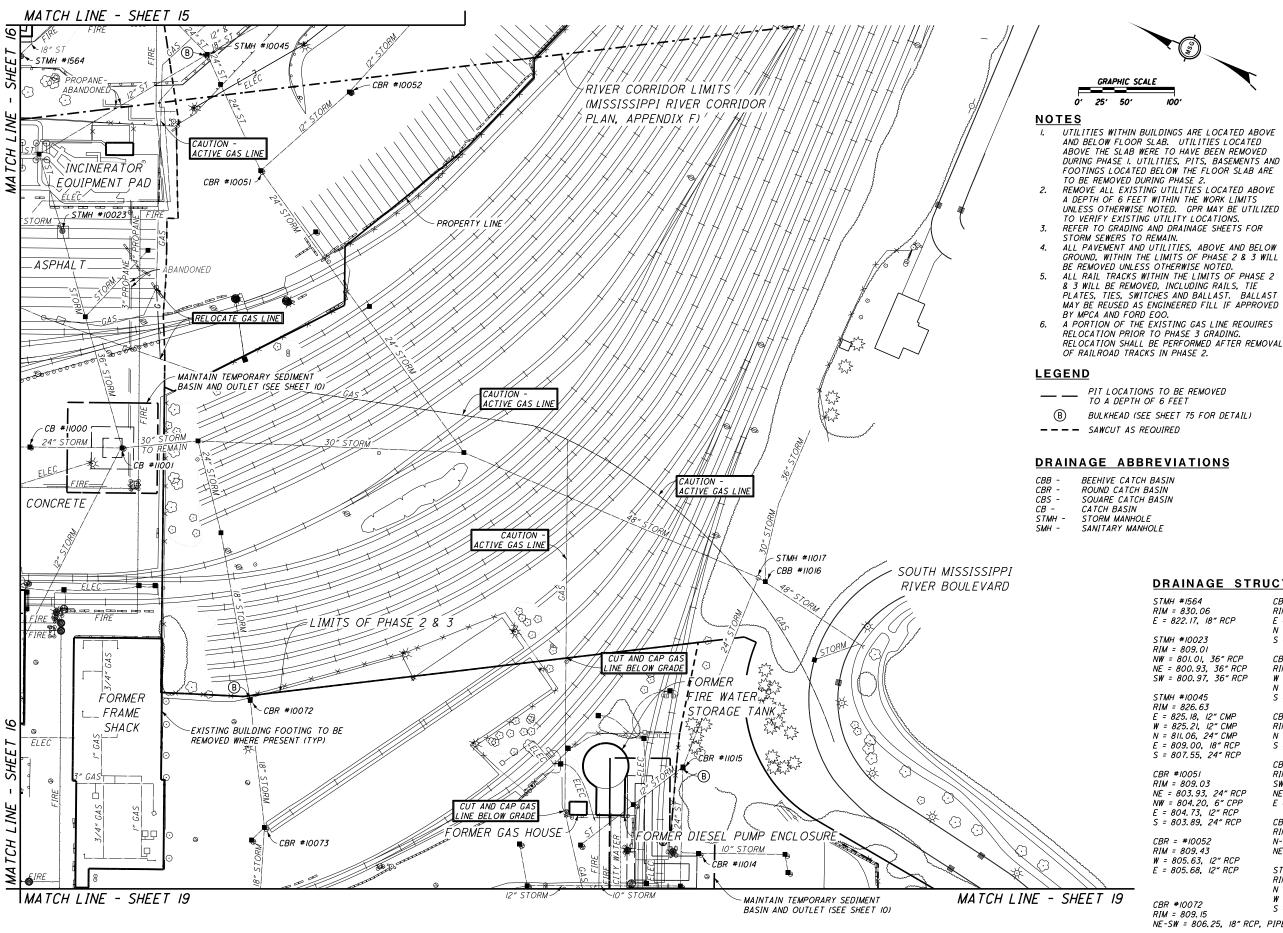
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DATE: _____ LICENSE # 50097

GRAPHIC SCALE 0' 25' 50'

PROJECT IES ASSEMBLY PLANT PAUL, MINNESOTA TWIN CITII

> FEET PH SUBGRADE DEM



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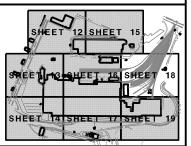
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DRAINAGE STRUCTURE DETAILS

STMH #1564 CBR #11000 RIM = 830.06RIM = 809.67 E = 800.23, 10" CLAY N = 799.82, UNKNOWN E = 822.17, 18" RCP STMH #10023 S = 799.72, UNKNOWN RIM = 809.01 CBR #11001

RIM = 808.75

W = 798.55, 18" RCP

N = 798.49, 24" RCP

S = 798.49, 24" RCP

CBR #11014 RIM = 807.92 N = 802.47, 10" PVC S = 802.57, 10" PVC

RIM = 801.22 N-S = 795.52, 54" RCP

NE = 796.62, 30"

STMH #IIOI7 RIM = 804.76

STMH #10045 RIM = 826.63E = 825.18, 12" CMP W = 825.21, 12" CMP N = 811.06. 24" CMP

CBR #11015 CBR #10051 RIM = 808.61 RIM = 809.03 SW = 799.57, 24" RCP NE = 800.10, 12" CLAY E = 799.51, 24" RCP NE = 803.93, 24" RCP NW = 804.20. 6" CPP E = 804.73, 12" RCP CBB #11016

CBR = #10052 RIM = 809.43W = 805.63, 12" RCP

E = 805.68. 12" RCF

N = 795.56, 54" RCP W = 795.36, 54 RCP S = 795.46, 54" RCP CBR #10072 RIM = 809.15 NE-SW = 806.25, 18" RCP, PIPE OPEN

CBR #10073 RIM = 808.99NE-W = 806.56, 18" RCP PROJECT
TWIN CITIES ASSEMBLY PLANT
SAINT PAUL, MINNESOTA

FEET

LEGEND

(B)

PIT LOCATIONS TO BE REMOVED

BULKHEAD (SEE SHEET 75 FOR DETAIL)

TO A DEPTH OF 6 FEET

--- SAWCUT AS REQUIRED

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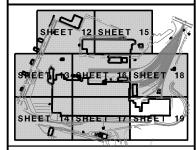
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GRAPHIC SCALE o. 25. 50.

NE = 800.30, 12" RCP NE = 800.00, 12" PVC SE = 800.21, 12" RCP SW = 799.76, 15" RCP

E = 807.27, 12" RCP

DRAINAGE ABBREVIATIONS

BEEHIVE CATCH BASIN ROUND CATCH BASIN SOUARE CATCH BASIN CBS -CB -CATCH BASIN STORM MANHOLE SANITARY MANHOLE

PROJECT
TWIN CITIES ASSEMBLY PLANT
SAINT PAUL, MINNESOTA

FEET

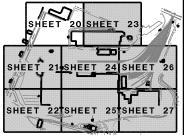
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APPROXIMATE SAND TUNNEL ELEVATION = 725± FT SAND TUNNEL HEIGHT APPROXIMATELY 15± FT FORMER PAINT FACILITY FFE = 833 FT

PROJECT
TWIN CITIES ASSEMBLY PLANT
SAINT PAUL, MINNESOTA

PHASE 2 SUBGRADE BELOW 6 FEET DEMOLITION/ABANDONMENT (UTILITY, PIT & TUNNEL)