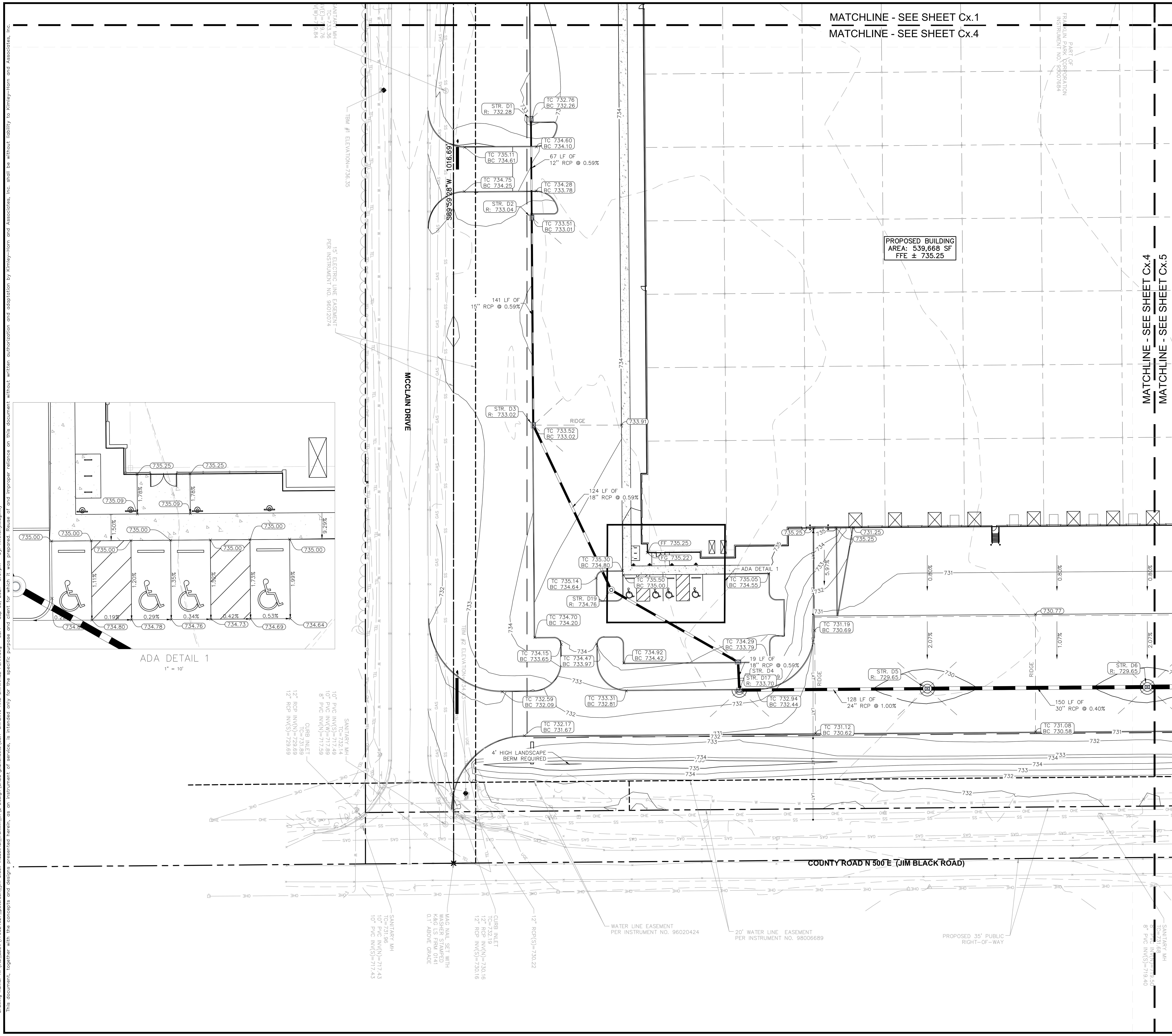

Indiana Utilities Protection Service

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NORTH

GRAPHIC SCALE IN FEET
0 15' 30' 60'

GRADING LEGEND

XXX.XX	FINISHED GRADE SPOT ELEVATION
TC XXX.XX BC XXX.XX	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
FL XXX.XX	FLOW LINE SPOT ELEVATION
ME XXX.XX	MATCH EXISTING SPOT ELEVATION
FF XXX.XX	FINISHED FLOOR SPOT ELEVATION
FG XXX.XX	FINISHED GRADE NEAR BUILDING SPOT ELEVATION
TW XXX.XX	TOP OF WALL SPOT ELEVATION
BW XXX.XX	BOTTOM OF WALL SPOT ELEVATION
R XXX.XX	RIM ELEVATION
STR XX R XXX.XX	STRUCTURE ID & RIM ELEVATION
STR XX INV XXX.XX	STRUCTURE ID & INVERT ELEVATION
620	PROPOSED CONTOUR
RIDGE	RIDGE LINE
X.XX%	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY
	PROPOSED SWALE
	PROPOSED STORM SEWER
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER STRUCTURES
	PROPOSED LIGHT POLES
	PROPOSED TRANSFORMER PAD

GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

No.	REVISIONS	DATE	BY

Kimley»Horn

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SCALE: AS NOTED
DESIGNED BY: AMM
DRAWN BY: CPP
CHECKED BY: WAB

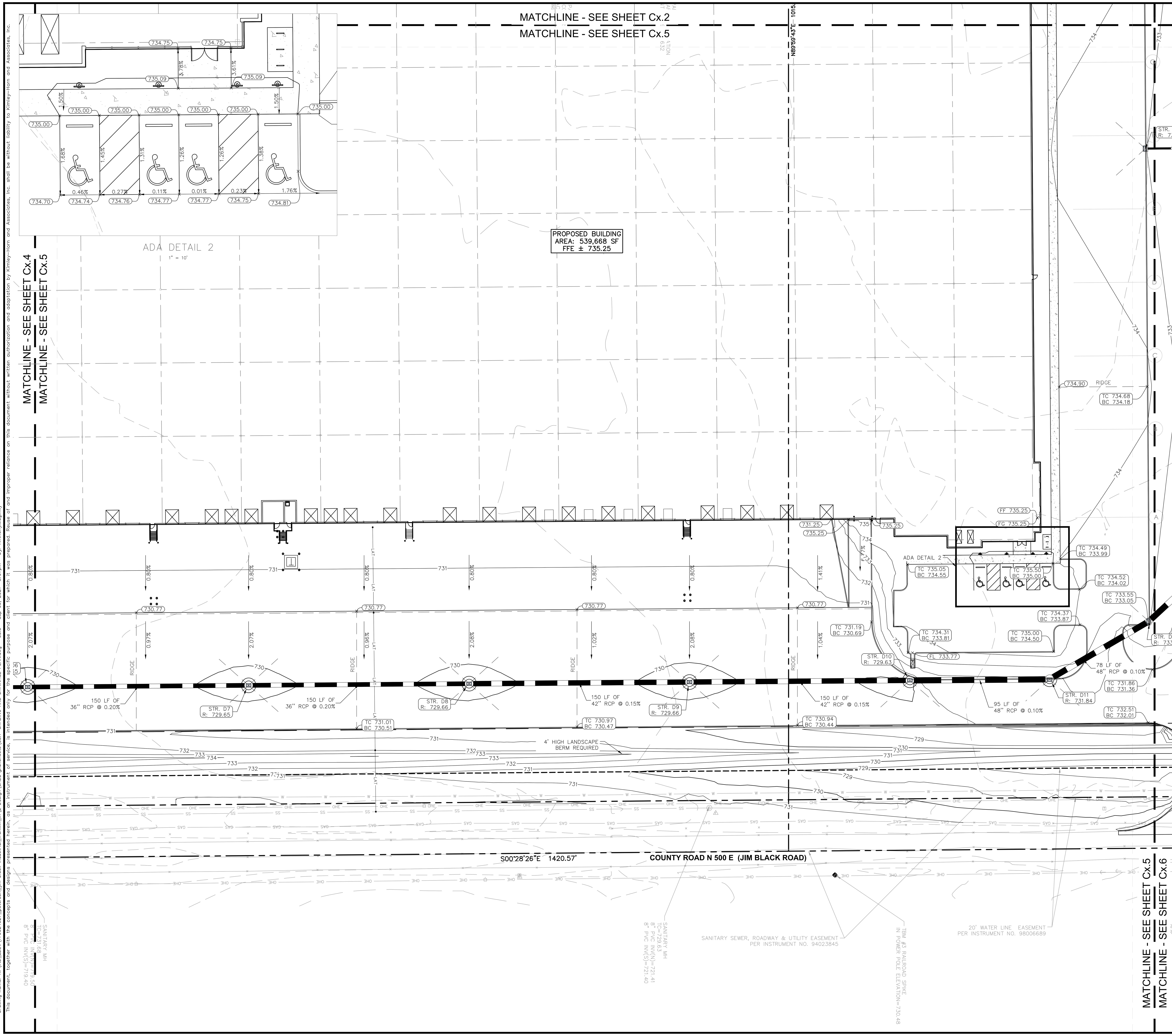
WILLIAM A. BU... REGISTERED PROFESSIONAL ENGINEER ... INDIANA
NOT APPROVED FOR CONSTRUCTION
9/9/2021

PETERSON

GRADING AND DRAINAGE PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C5.4



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GRAPHIC SCALE IN FEET
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GRADING LEGEND

XXX.XX	FINISHED GRADE SPOT ELEVATION
TC XXX.XX / BC XXX.XX	TOP OF CURB / BOTTOM OF CURB SPOT ELEVATION
FL XXX.XX	FLOW LINE SPOT ELEVATION
ME XXX.XX	MATCH EXISTING SPOT ELEVATION
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TW XXX.XX	TOP OF WALL SPOT ELEVATION
BW XXX.XX	BOTTOM OF WALL SPOT ELEVATION
R XXX.XX	RIM ELEVATION
STR XX / R XXX.XX	STRUCTURE ID & RIM ELEVATION
STR XX / INV XXX.XX	STRUCTURE ID & INVERT ELEVATION
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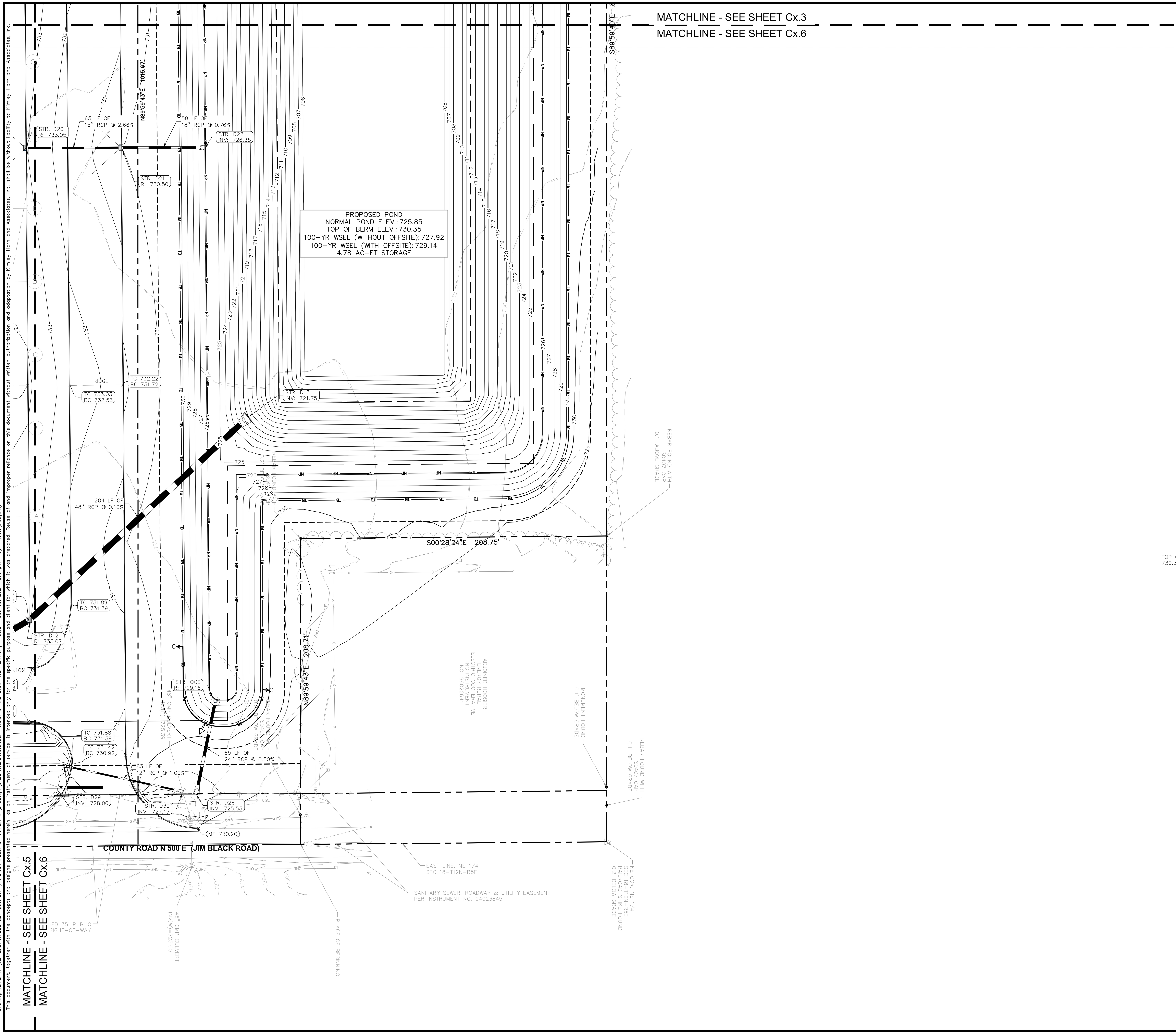

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GRAPHIC SCALE IN FEET
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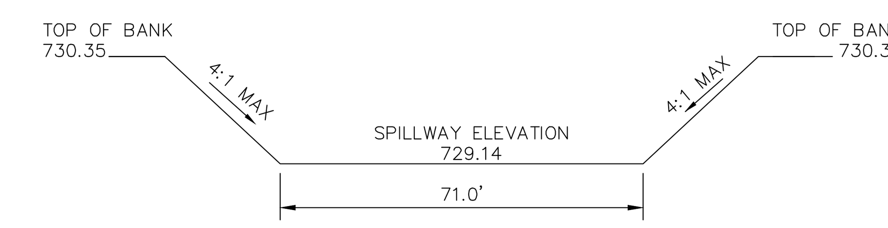
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
	PROPOSED WATER STRUCTURES
	PROPOSED LIGHT POLES
	PROPOSED TRANSFORMER PAD

CLAY POND LINER ARE REQUIRED IF SIGNIFICANT SAND AND GRAVEL STRATIFICATIONS ARE ENCOUNTERED DURING EXCAVATION OF THE POND.



EMERGENCY OVERFLOW WEIR SECTION C-C
N.T.S.

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9/9/2021

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FRANKLIN INDUSTRIAL
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ORIGINAL ISSUE: 9/9/2021
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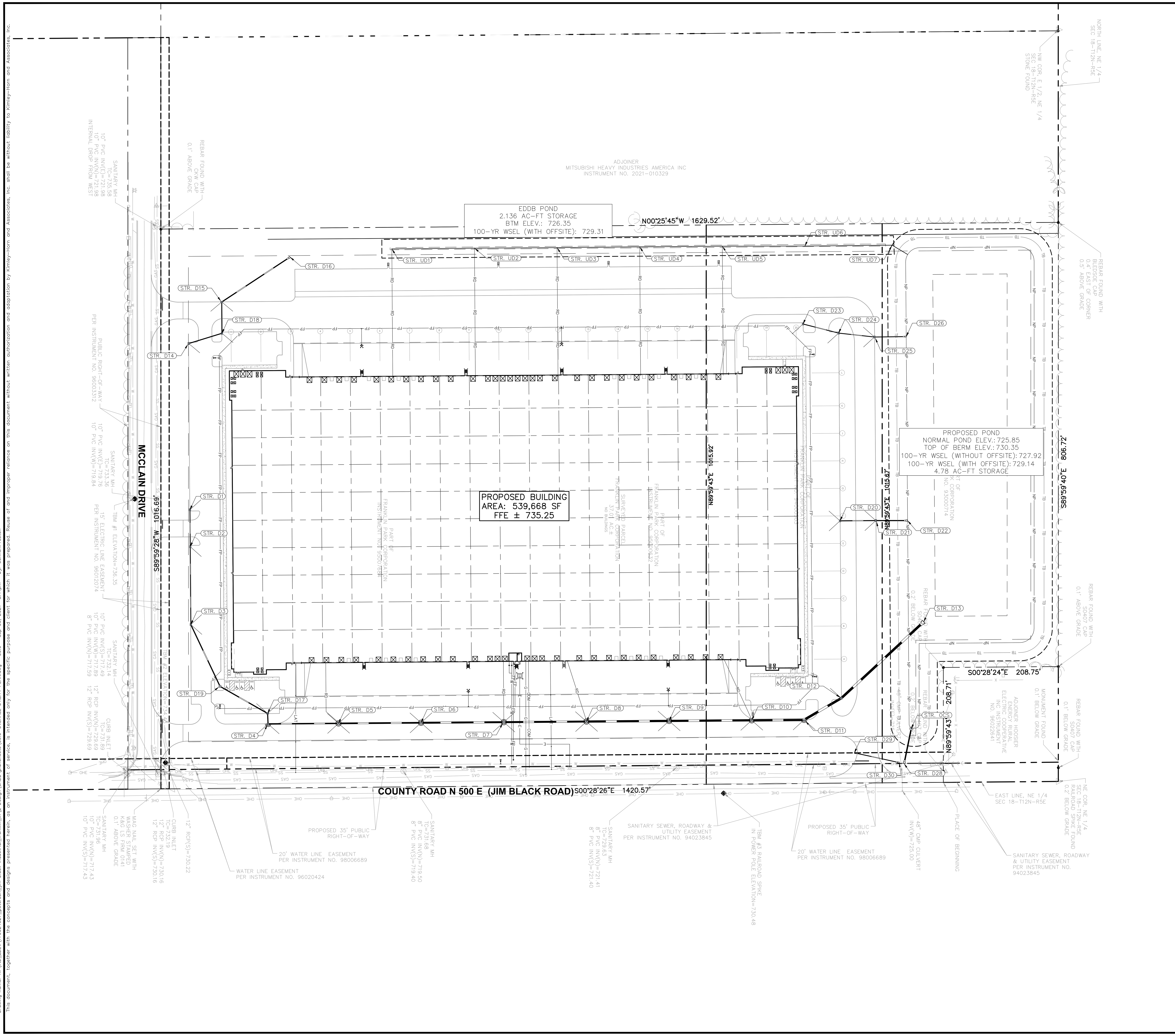

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NORTH

GRAPHIC SCALE IN FEET
0 40' 80' 160'

UTILITY LEGEND

——E——	PROPOSED UNDERGROUND ELECTRIC LINE
——G——	PROPOSED GAS LINE (BY GAS COMPANY)
——T——	PROPOSED PHONE LINE
——RD——	PROPOSED ROOF DRAIN LINE
— — —	PROPOSED UNDERDRAIN
←	PROPOSED SWALE
▬▬	PROPOSED STORM SEWER LINE
STR. XX	STRUCTURE ID
	PROPOSED STORM STRUCTURES
——SS——	PROPOSED SANITARY SEWER LINE
——LAT——	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
——W——	PROPOSED WATER LINE
——FP——	PROPOSED FIRE PROTECTION LINE
	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
	PROPOSED TRANSFORMER PAD (BY OTHERS)

EXISTING LEGEND

STORM INLET	PS PARKING SPACE
CURB INLET	H/C PARKING SPACE
SANITARY SEWER MANHOLE (SSMH)	TRAFFIC SIGNAL POLE
STORM DRAIN MANHOLE (SDMH)	LIGHT POLE
TELEPHONE MANHOLE (TMH)	TREE
RIGHT OF WAY MONUMENT	MAILBOX
WATER VALVE	MONITOR WELL
POWER POLE	
POWER METER	
TELEPHONE BOX/PEDESTAL	
ELECTRICAL MANHOLE	

——FIB——	UNDERGROUND FIBER OPTIC
——CBL——	UNDERGROUND CABLE
——[E]——	UNDERGROUND ELECTRIC
• • • •	DITCH FLOWLINE
——SD——	STORM DRAIN
——SS——	SEWER LINE
——GAS——	GAS LINE
——W——	WATER LINE

GENERAL PLAN NOTES

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9/9/2021

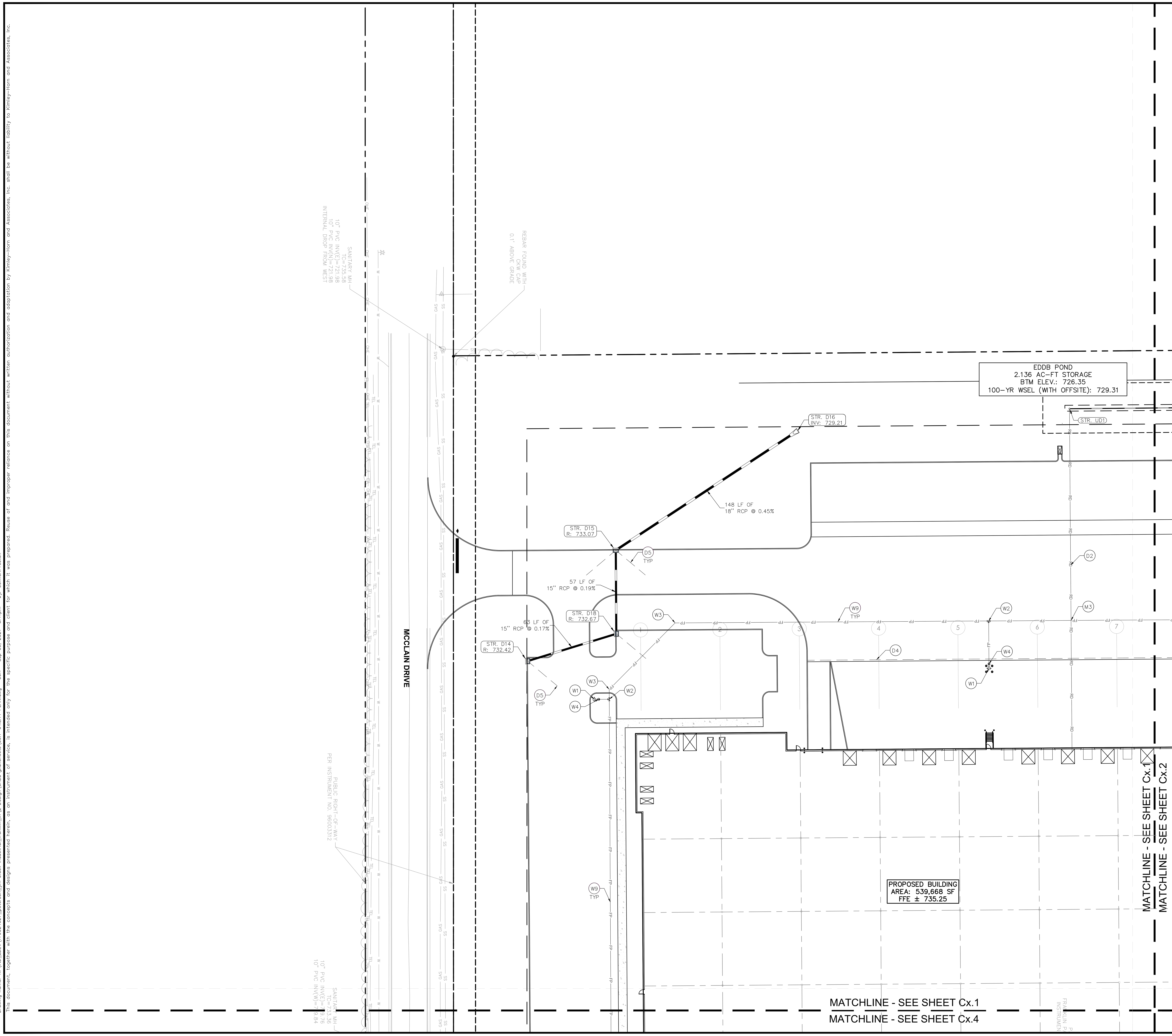
PETERSON

OVERALL UTILITY PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.0

Drawing name: K:\IND_LDEV\170024027_peterson_jim black industrial_franklin_in\2 Design\CADD\plansheets\C6.0-OVERALL UTILITY PLAN.dwg C6.0 Sep 09, 2021 3:11pm by: Connor.Preston



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NORTH

GRAPHIC SCALE IN FEET
0 15' 30' 60'

UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
- STRUCTURE ID
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY LATERAL LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE STORM SEWER
D1. ROOF DRAIN CLEANOUT
D2. ROOF DRAIN LINE
D3. CONNECT ROOF DRAIN TO STRUCTURE
D4. PERFORATED UNDERDRAIN
D5. SPIDER DRAIN

(S) SANITARY SEWER
S1. SANITARY CLEANOUT
S2. SANITARY LATERAL LINE

(W) WATER LINE
W1. FIRE HYDRANT AND VALVE ASSEMBLY
W2. WATER TEE
W3. WATER BEND
W4. GATE VALVE
W5. WATER METER
W6. FIRE DEPT CONNECTION (FDC)
W7. POST INDICATOR VALVE (PIV)
W8. CONNECT TO EXISTING WATER (TAP OR TEE)
W9. WATER LINE

(G) GAS LINE
G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE
E1. ELECTRIC SERVICE LINE
E2. ELECTRIC TRANSFORMER
E3. TELECOMMUNICATIONS LINE

(M) MISCELLANEOUS
M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
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WILLIAM A. BU... REGISTERED PROFESSIONAL ENGINEER, INDIANA
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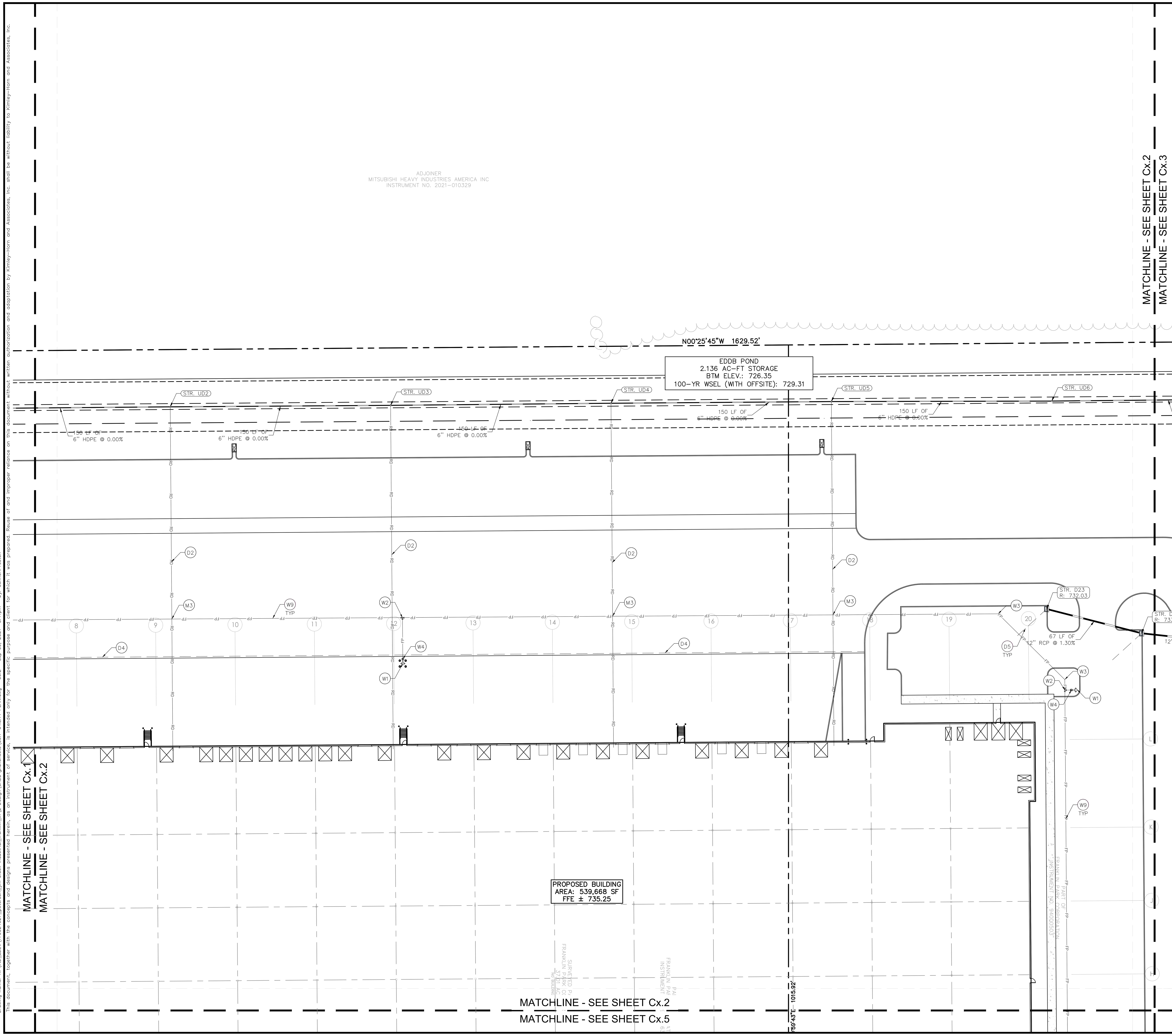
9/9/2021

PETERSON

UTILITY PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.1



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NORTH

GRAPHIC SCALE IN FEET
0 15' 30' 60'

UTILITY LEGEND

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G	PROPOSED GAS LINE (BY GAS COMPANY)
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	PROPOSED UNDERDRAIN
	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
STR XX	STRUCTURE ID
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LAT	PROPOSED SANITARY LATERAL LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM/SANITARY CLEANOUT
W	PROPOSED WATER LINE
FP	PROPOSED FIRE PROTECTION LINE
WV	PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
	PROPOSED WATER BENDS & TEE
	PROPOSED LIGHT POLE
T	PROPOSED TRANSFORMER PAD (BY OTHERS)

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ORIGINAL ISSUE: 9/9/2021
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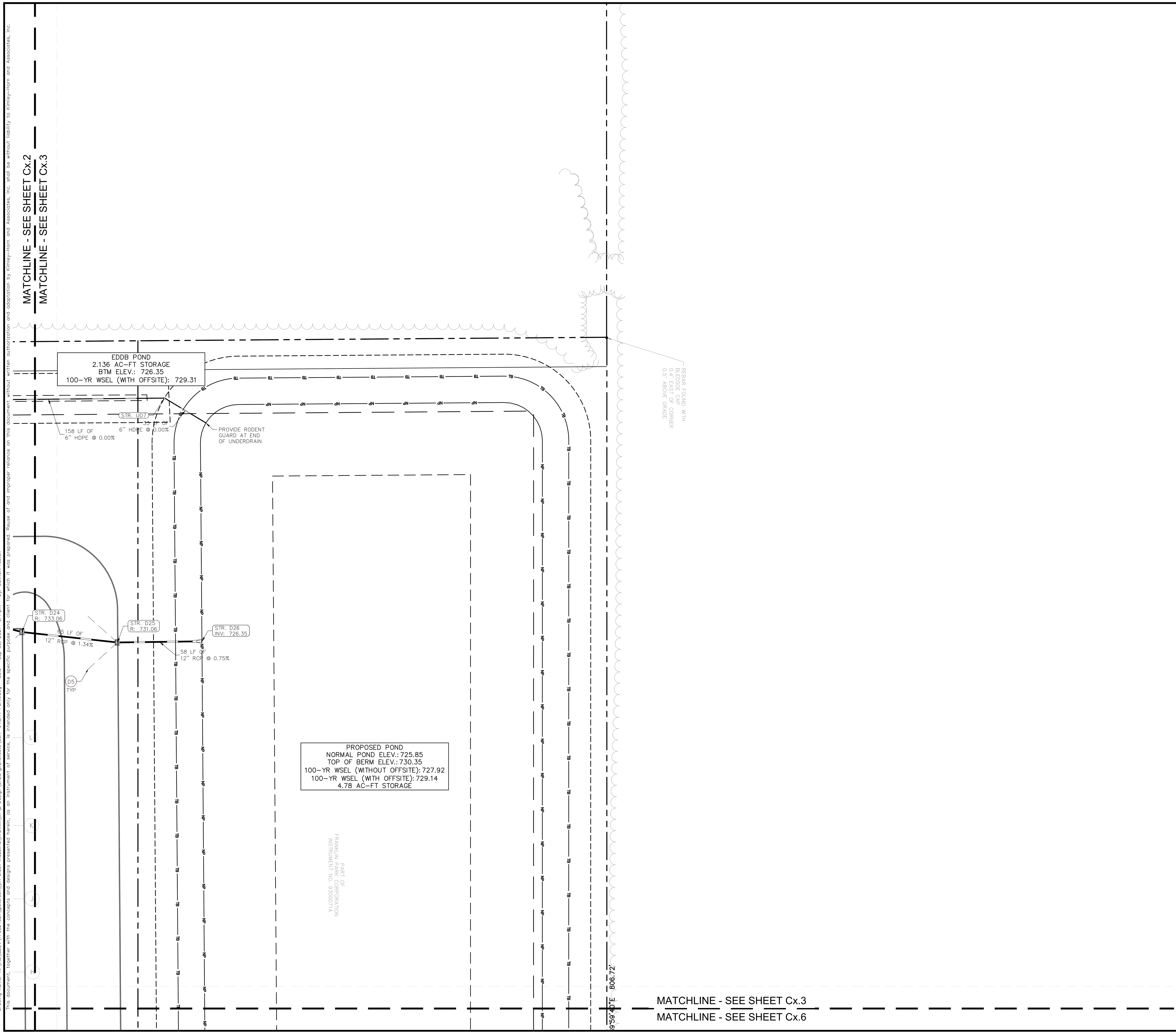

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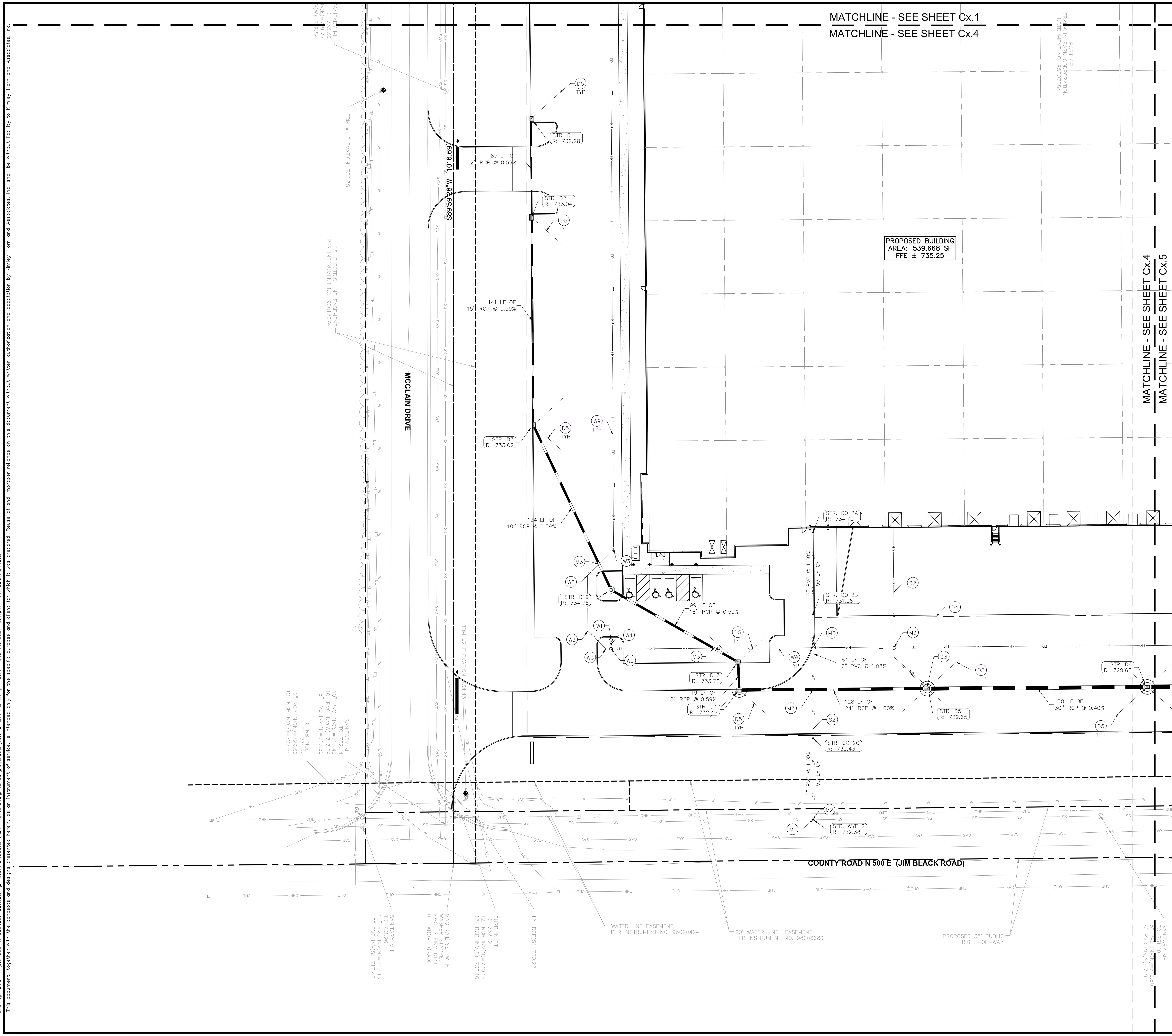

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GENERAL PLAN NOTES

REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC GENERAL PLAN NOTES.)

No.	REVISIONS	DATE	BY

Kimley»Horn
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SCALE: AS NOTED
DESIGNED BY: AMM
DRAWN BY: CPP
CHECKED BY: WAB

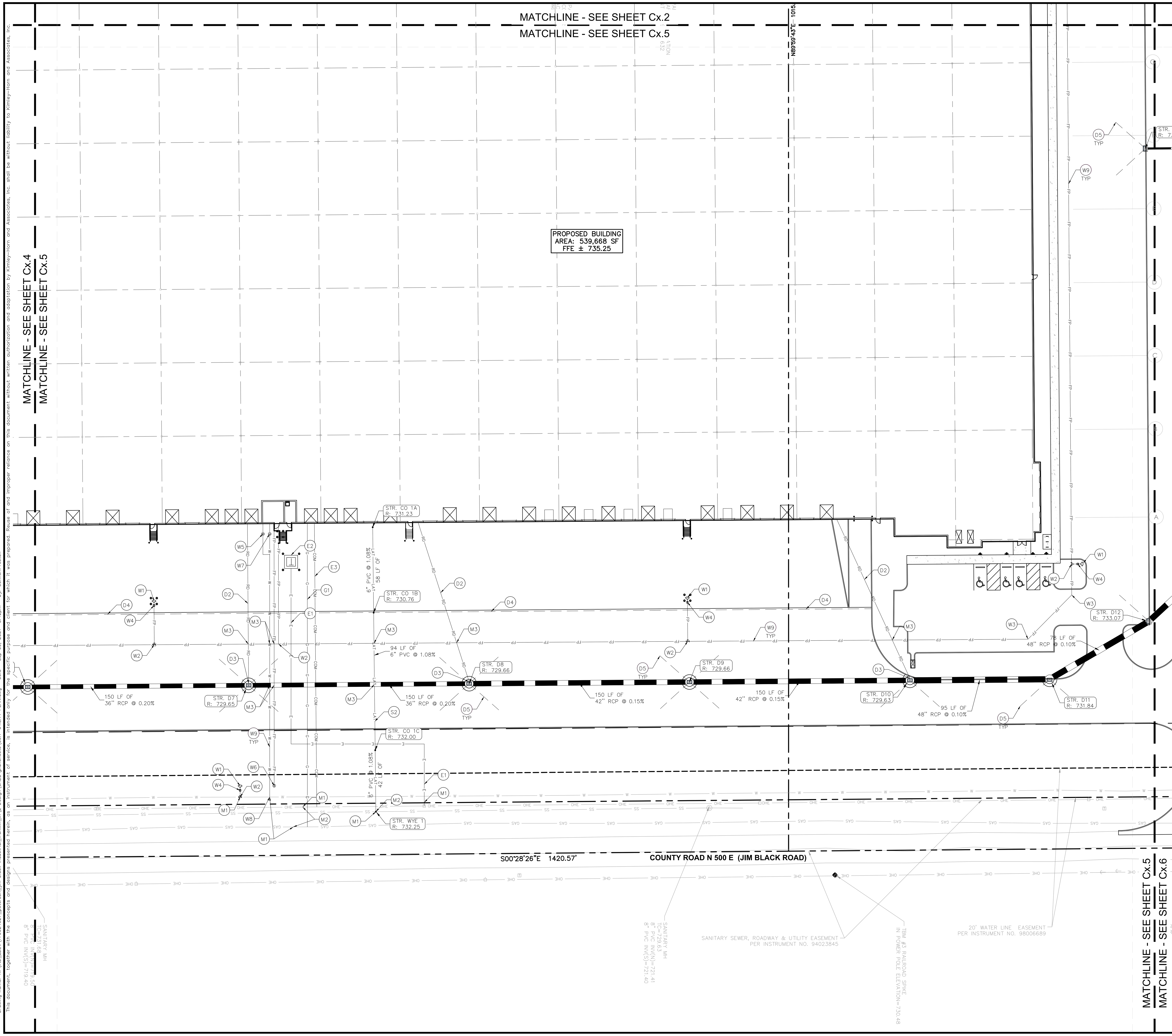
WILLIAM A. BU... REGISTERED PROFESSIONAL ENGINEER INDIANA
NOT APPROVED FOR CONSTRUCTION
9/9/2021

PETERSON

UTILITY PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.4



Indiana Utilities Protection Service

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NORTH

GRAPHIC SCALE IN FEET
0 15' 30' 60'

UTILITY LEGEND

PROPOSED UNDERGROUND ELECTRIC LINE
PROPOSED GAS LINE (BY GAS COMPANY)
PROPOSED PHONE LINE
PROPOSED ROOF DRAIN LINE
PROPOSED UNDERDRAIN
PROPOSED SWALE
PROPOSED STORM SEWER LINE
STR XX — STRUCTURE ID
PROPOSED STORM STRUCTURES
PROPOSED SANITARY SEWER LINE
PROPOSED SANITARY LATERAL LINE
PROPOSED SANITARY MANHOLE
PROPOSED STORM/SANITARY CLEANOUT
PROPOSED WATER LINE
PROPOSED FIRE PROTECTION LINE
PROPOSED WATER VALVE BOX, PIV, METER FIRE HYDRANT, FIRE DEPT CONN. & VAULT
PROPOSED WATER BENDS & TEE
PROPOSED LIGHT POLE
PROPOSED TRANSFORMER PAD (BY OTHERS)

KEY NOTES

(D) DRAINAGE STORM SEWER
D1. ROOF DRAIN CLEANOUT
D2. ROOF DRAIN LINE
D3. CONNECT ROOF DRAIN TO STRUCTURE
D4. PERFORATED UNDERDRAIN
D5. SPIDER DRAIN

(S) SANITARY SEWER
S1. SANITARY CLEANOUT
S2. SANITARY LATERAL LINE

(W) WATER LINE
W1. FIRE HYDRANT AND VALVE ASSEMBLY
W2. WATER TEE
W3. WATER BEND
W4. GATE VALVE
W5. WATER METER
W6. FIRE DEPT CONNECTION (FDC)
W7. POST INDICATOR VALVE (PIV)
W8. CONNECT TO EXISTING WATER (TAP OR TEE)
W9. WATER LINE

(G) GAS LINE
G1. GAS SERVICE LINE

(E) ELECTRIC / TELEPHONE / CABLE
E1. ELECTRIC SERVICE LINE
E2. ELECTRIC TRANSFORMER
E3. TELECOMMUNICATIONS LINE

(M) MISCELLANEOUS
M1. CONTRACTOR TO COORDINATE CONNECTION WITH UTILITY PROVIDER.
M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITY TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
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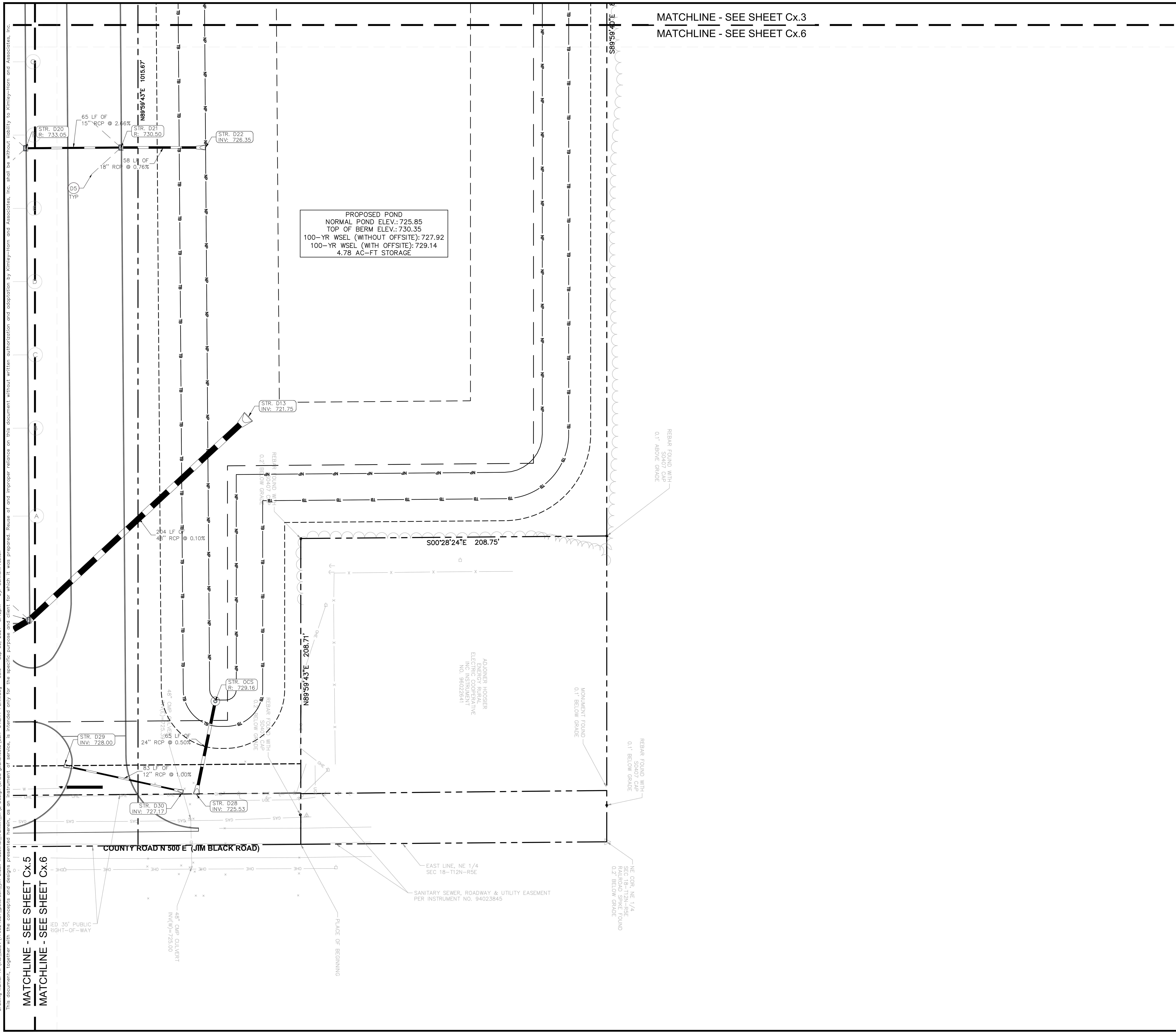
UTILITY PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.5

Drawing name: K:\IND_LDEV\170024027_peterson_jim black industrial_franklin_in\2 Design\CADD\plansheets\C6.1-UTILITY PLAN.dwg C6.5 Sep 09, 2021 3:12pm by: Connor.Preston



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NORTH

GRAPHIC SCALE IN FEET
0 15' 30' 60'

UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
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KEY NOTES

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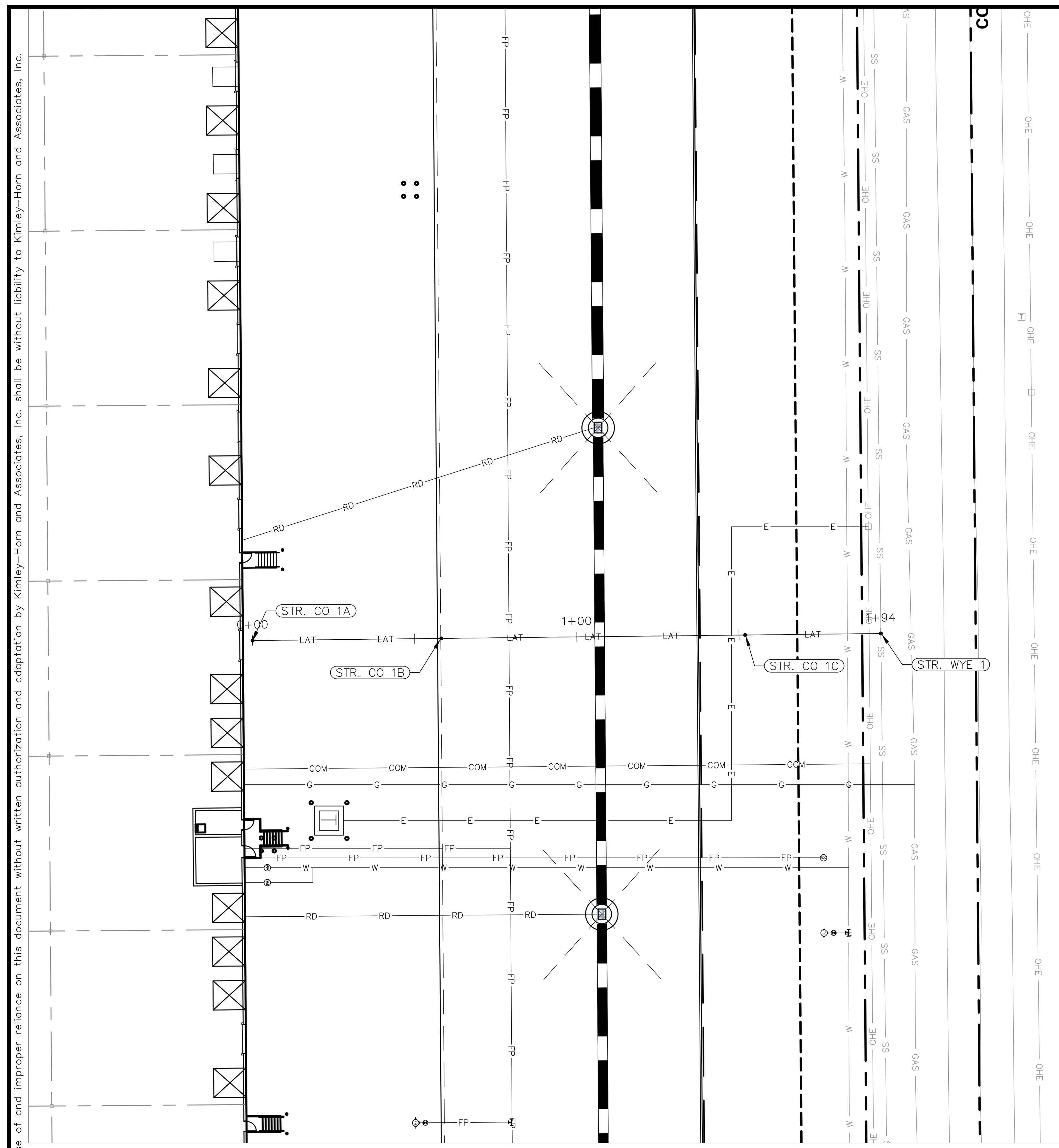
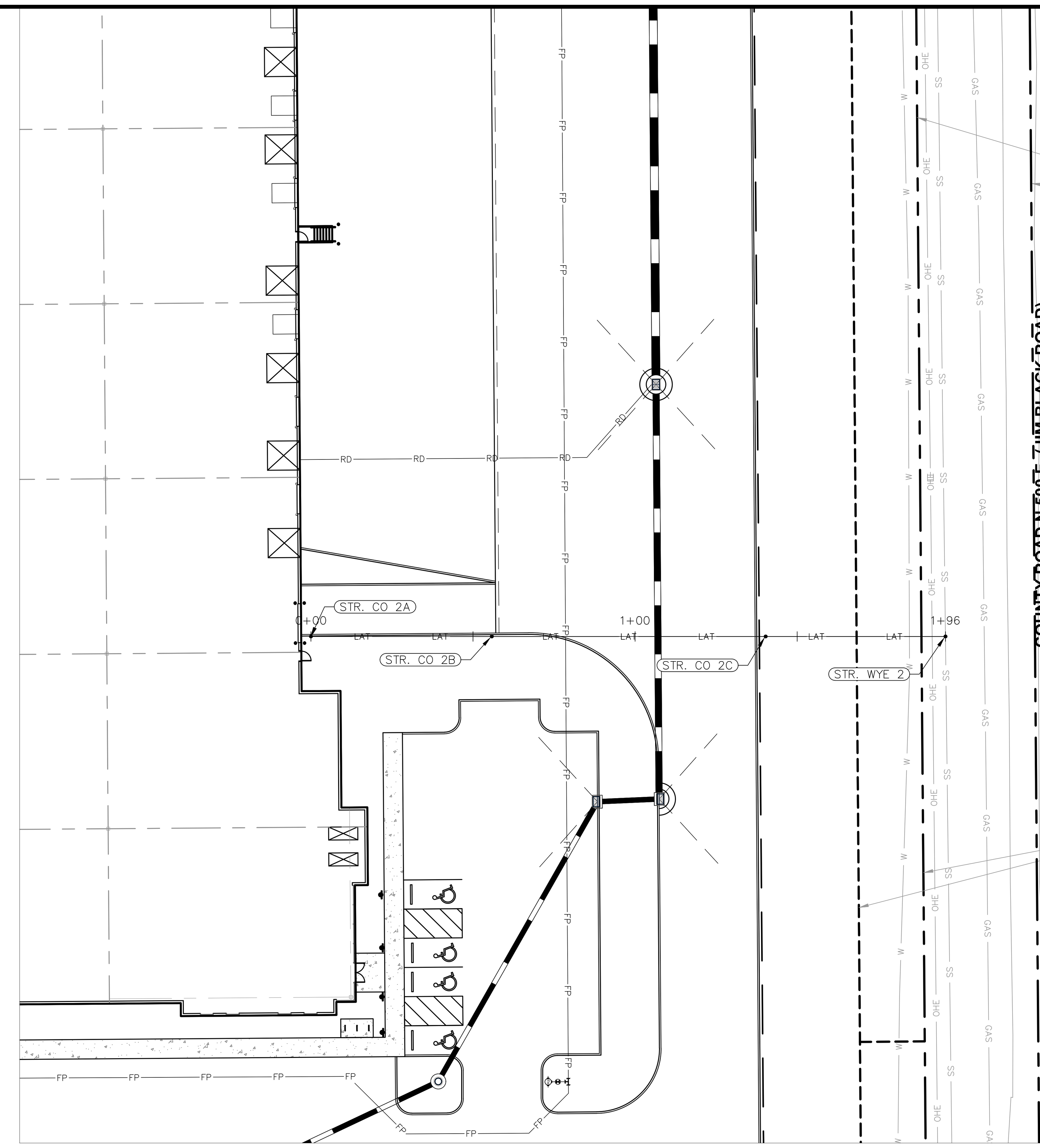
PETERSON

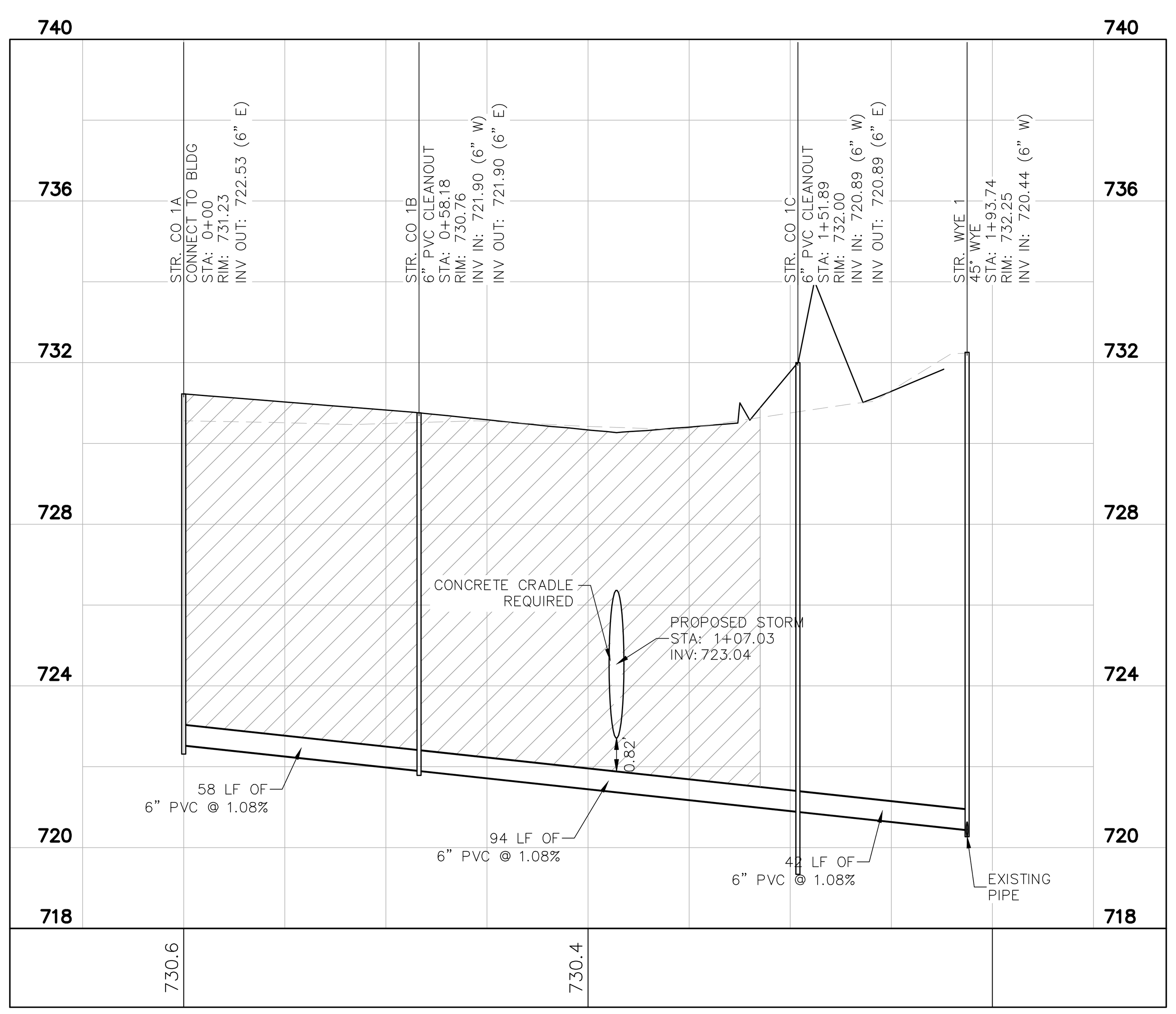
UTILITY PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

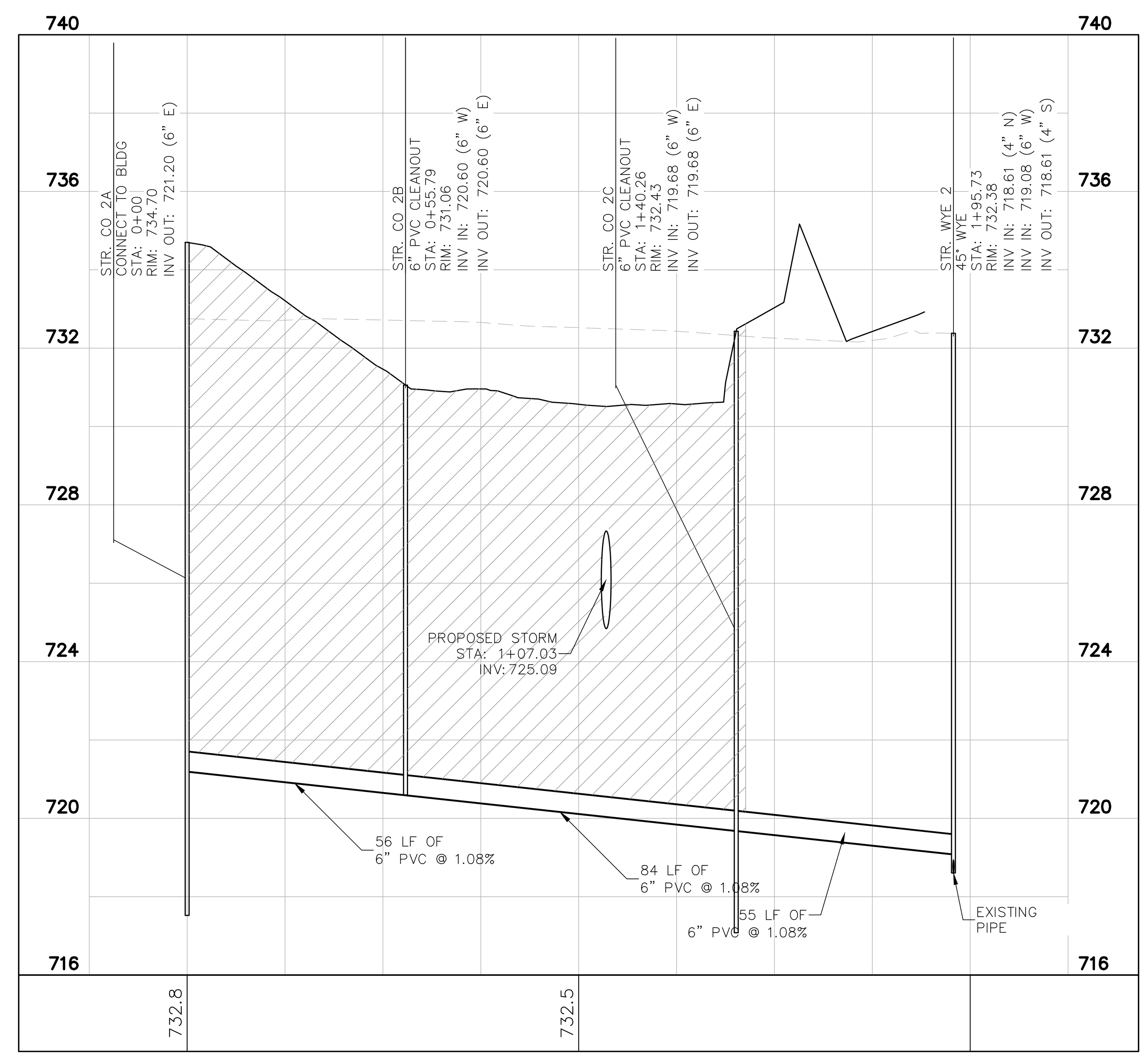
ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.6







PROPOSED SANITARY LATERAL 1
H: 1"=30 | V: 1"=3



PROPOSED SANITARY LATERAL 2
H: 1"=30 | V: 1"=3

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NORTH

GRAPHIC SCALE IN FEET
0 ### ### ###

PLAN & PROFILE LEGEND

- FULL DEPTH GRANULAR BACKFILL REQUIRED (PLAN VIEW)
- FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
- EXISTING PROFILE GRADE
- PROPOSED PROFILE GRADE

UTILITY LEGEND

- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED ROOF DRAIN LINE
- PROPOSED UNDERDRAIN
- PROPOSED SWALE
- PROPOSED STORM SEWER LINE
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- PROPOSED WATER BENDS & TEE
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (BY OTHERS)

PLAN & PROFILE NOTES

1. FULL DEPTH GRANULAR BACKFILL REQUIRED FOR ALL TRENCHES UNDER AND WITHIN 5 FEET OF PAVEMENT.

EXISTING LEGEND

- STORM INLET
- CURB INLET
- SANITARY SEWER MANHOLE (SSMH)
- STORM DRAIN MANHOLE (SDMH)
- TELEPHONE MANHOLE (TMH)
- RIGHT OF WAY MONUMENT
- WATER VALVE
- POWER POLE
- POWER METER
- TELEPHONE BOX/PEDESTAL
- ELECTRICAL MANHOLE
- PS — PARKING SPACE
- H/C PARKING SPACE
- TRAFFIC SIGNAL POLE
- LIGHT POLE
- TREE
- MAILBOX
- MONITOR WELL
- FIB — UNDERGROUND FIBER OPTIC
- CBL — UNDERGROUND CABLE
- [E] — UNDERGROUND ELECTRIC
- DITCH FLOWLINE
- SD — STORM DRAIN
- SS — SEWER LINE
- GAS — GAS LINE
- W — WATER LINE

GENERAL PLAN NOTES

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WILLIAM A. B... REGISTERED ... PROFESSIONAL ENGINEER INDIANA
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9/9/2021

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SANITARY PLAN AND PROFILE

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.7

PROFILE LEGEND

(hatched)	FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
(dashed line)	EXISTING PROFILE GRADE
(solid line)	PROPOSED PROFILE GRADE

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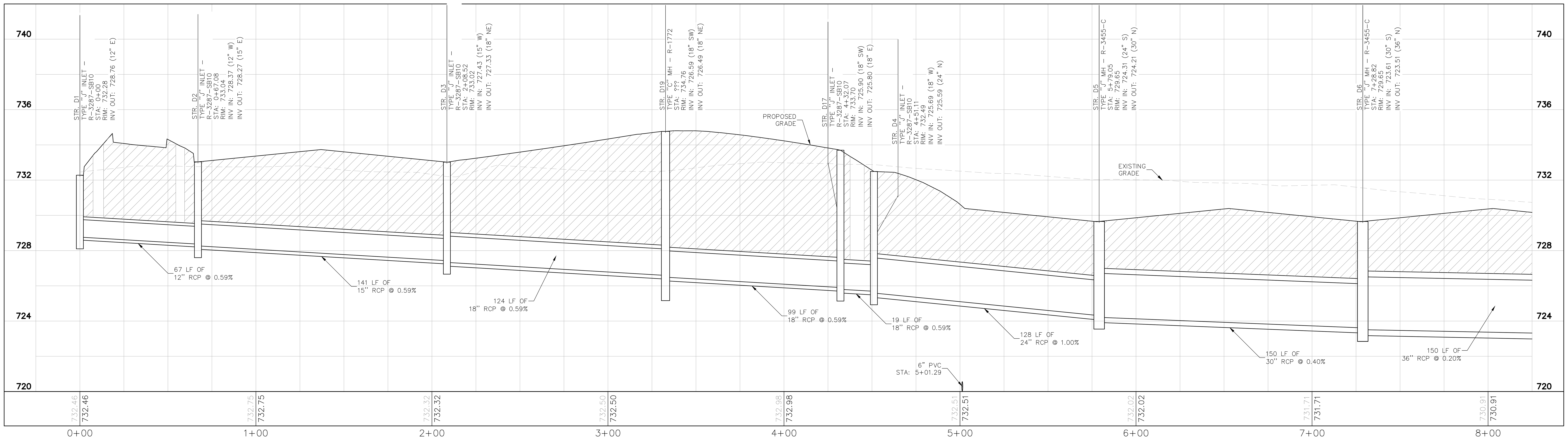
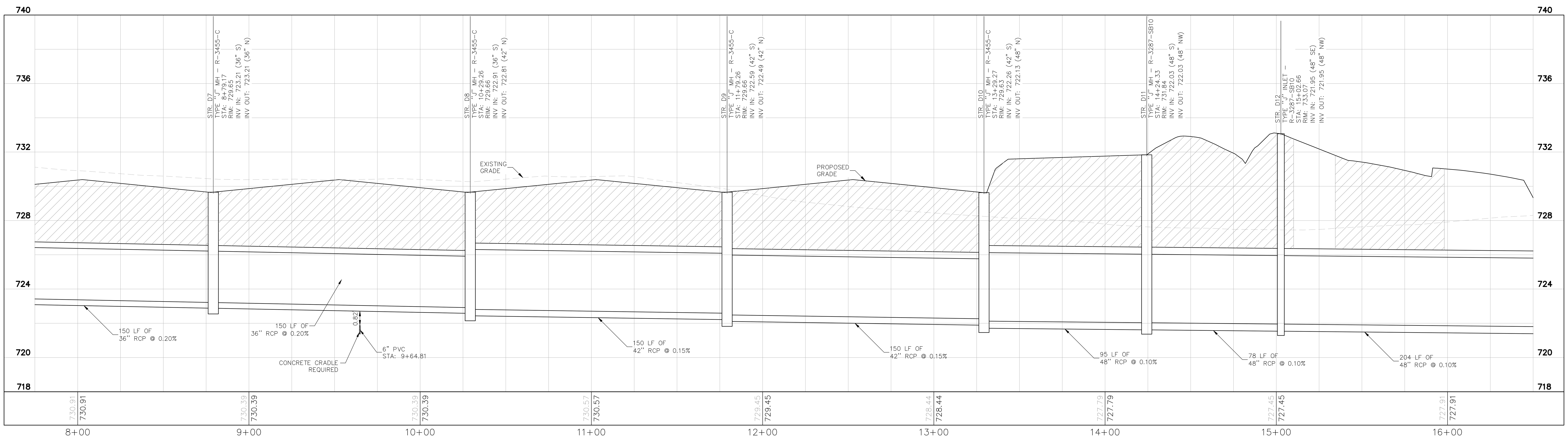


PROPOSED STORM 1
H: 1"=30 | V: 1"=3



PROPOSED STORM 1
H: 1"=30 | V: 1"=3

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STORM PROFILE

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C6.8

Drawing name: K:\IND_LDEV\170024027_peterson_jim black industrial_franklin_in\2 Design\CADD\plansheets\C6.1-STORM PROFILE.dwg C6.8 Sep 09, 2021 2:22pm by: Kendall.Gindling

PROFILE LEGEND

(hatched)	FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)
(dashed line)	EXISTING PROFILE GRADE
(solid line)	PROPOSED PROFILE GRADE

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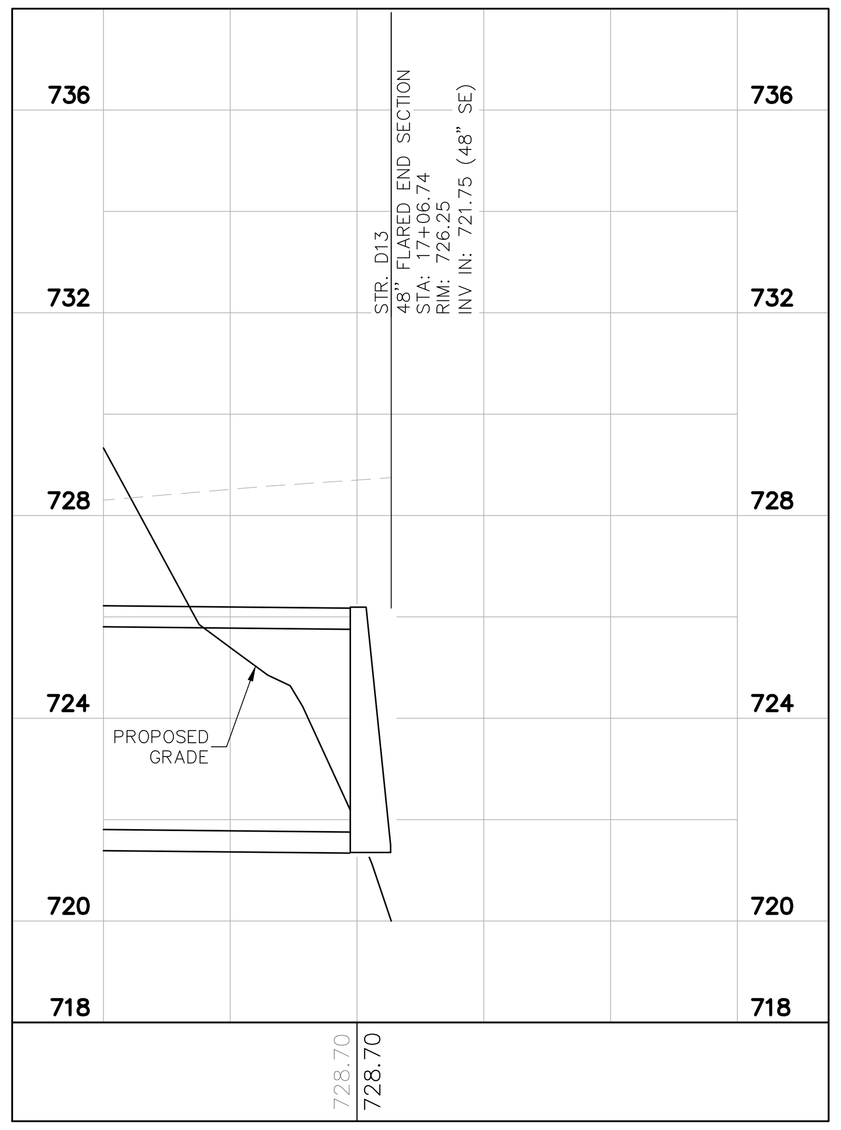
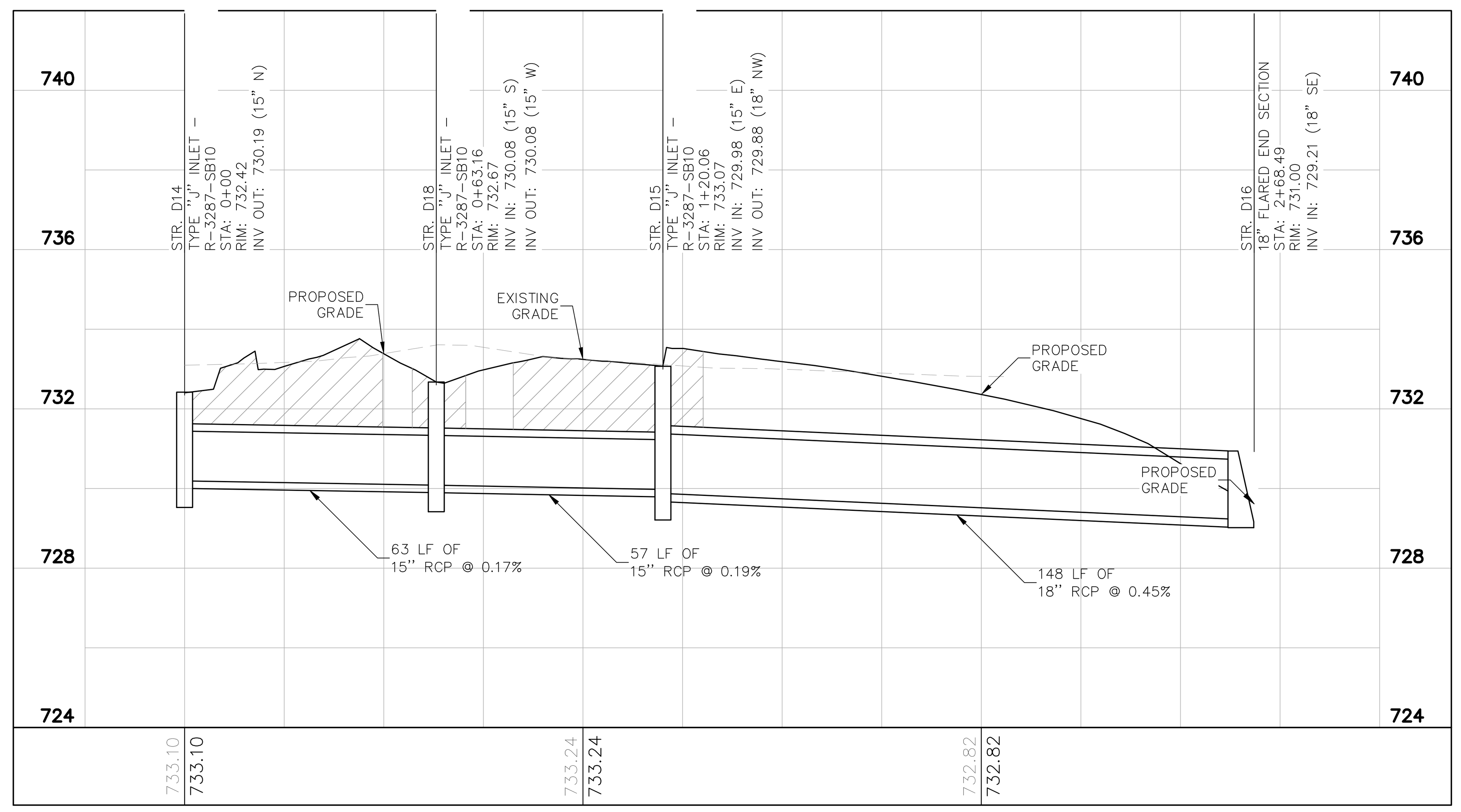
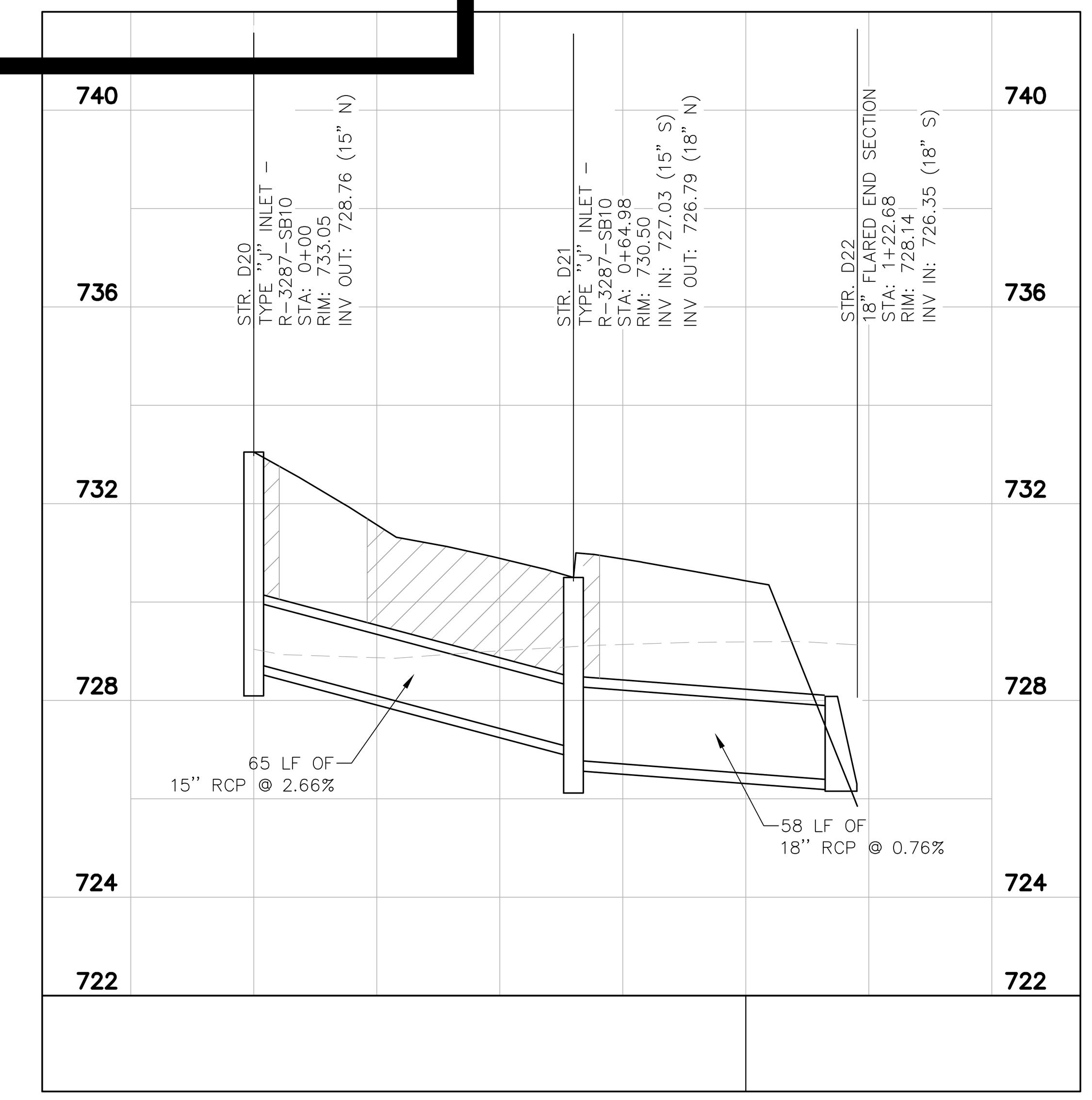


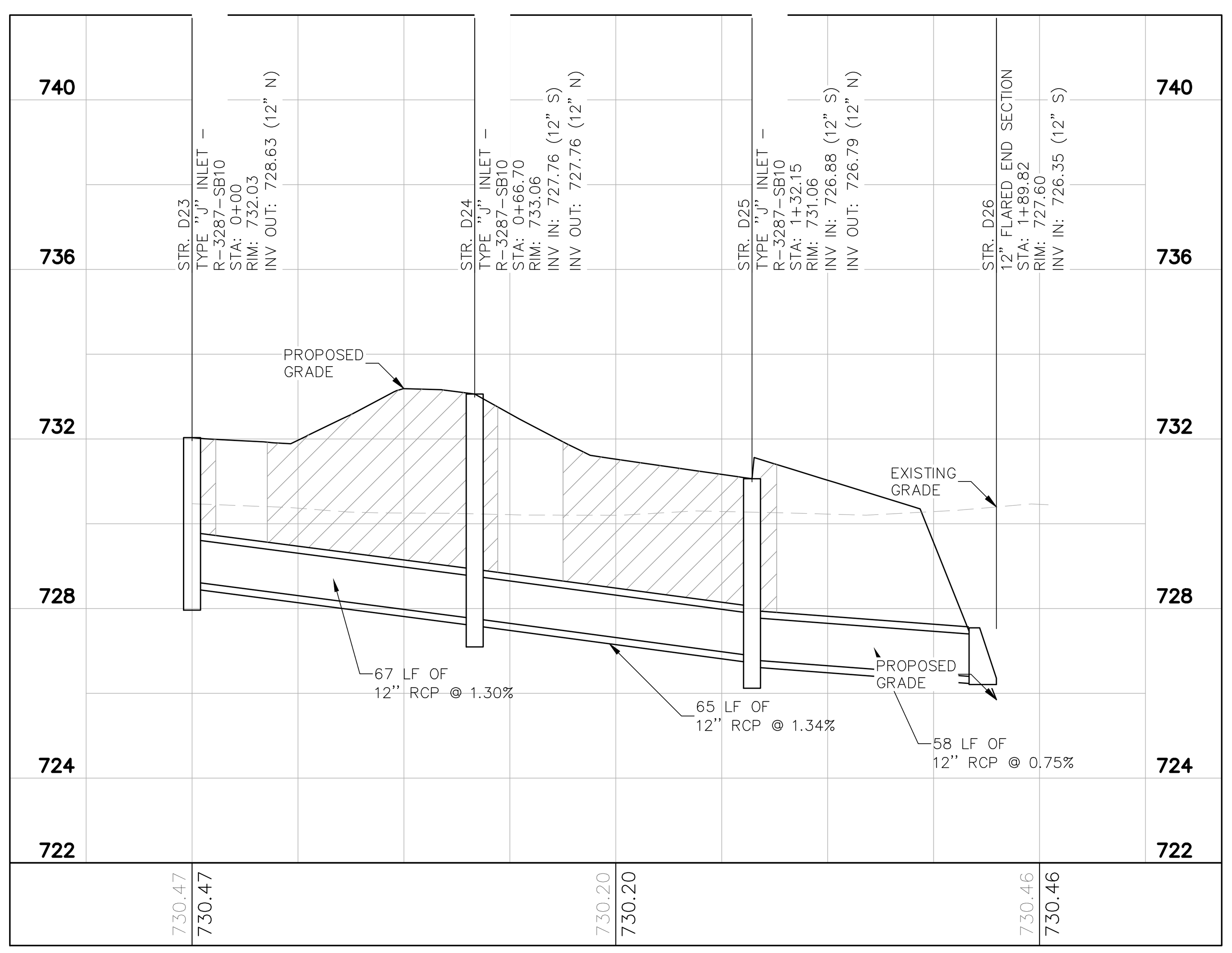
PROPOSED STORM 1
H: 1"=30 | V: 1"=3



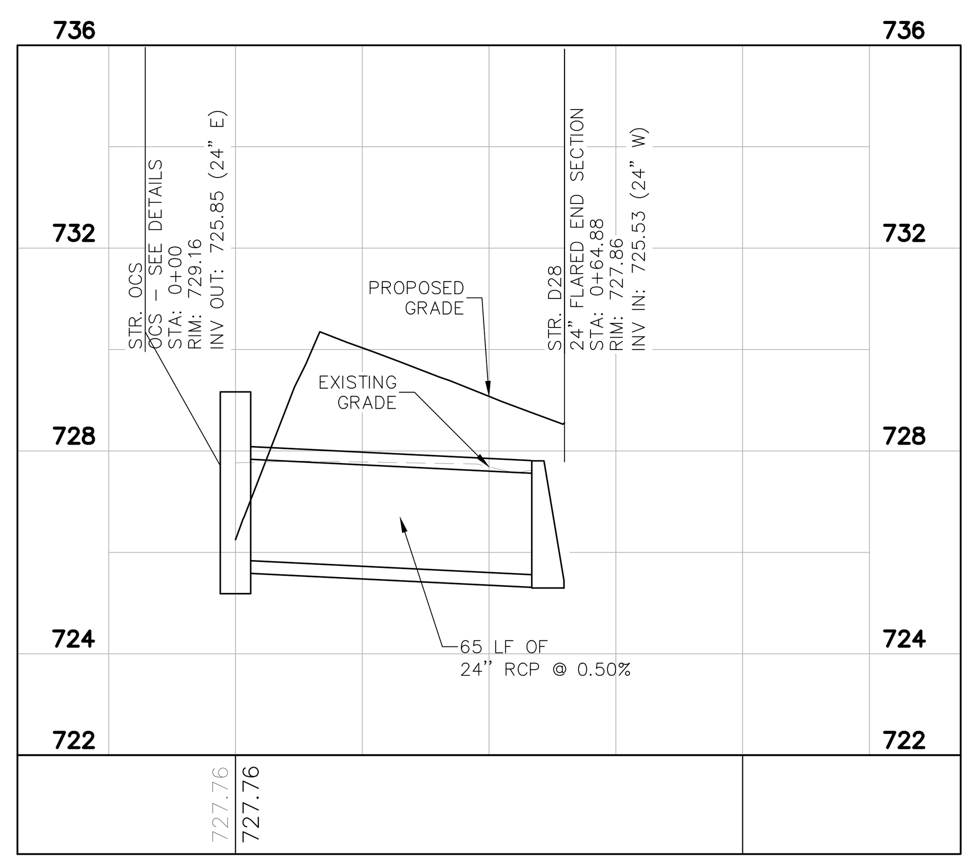
PROPOSED STORM 2
H: 1"=30 | V: 1"=3



PROPOSED STORM 4
H: 1"=30 | V: 1"=3



PROPOSED STORM 5
H: 1"=30 | V: 1"=3



PROPOSED OCS
H: 1"=30 | V: 1"=3

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STORM PROFILE

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
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STORM SEWER STRUCTURE DATA TABLE
NOTE: DEBRIS GUARD REQUIRED ON ALL END SECTIONS
ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE–DRAINS TO WATERWAY"

STR. NO:	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS
D1	TYPE "J" INLET – R-3287-SB10	732.28		12" RCP 728.76 (E) [D2]	67'	12"	0.59%	D2	
D2	TYPE "J" INLET – R-3287-SB10	733.04	12" RCP 728.37 (W) [D1]	15" RCP 728.27 (E) [D3]	141'	15"	0.59%	D3	
D3	TYPE "J" INLET – R-3287-SB10	733.02	15" RCP 727.43 (W) [D2]	18" RCP 727.33 (NE) [D19]	124'	18"	0.59%	D19	
D4	TYPE "J" INLET – R-3287-SB10	732.49	18" RCP 725.69 (W) [D17]	24" RCP 725.59 (N) [D5]	128'	24"	1.00%	D5	
D5	TYPE "J" MH – R-3455-C	729.65	24" RCP 724.31 (S) [D4]	30" RCP 724.21 (N) [D6]	150'	30"	0.40%	D6	
D6	TYPE "J" MH – R-3455-C	729.65	30" RCP 723.61 (S) [D5]	36" RCP 723.51 (N) [D7]	150'	36"	0.20%	D7	
D7	TYPE "J" MH – R-3455-C	729.65	36" RCP 723.21 (S) [D6]	36" RCP 723.21 (N) [D8]	150'	36"	0.20%	D8	
D8	TYPE "J" MH – R-3455-C	729.66	36" RCP 722.91 (S) [D7]	42" RCP 722.81 (N) [D9]	150'	42"	0.15%	D9	
D9	TYPE "J" MH – R-3455-C	729.66	42" RCP 722.59 (S) [D8]	42" RCP 722.49 (N) [D10]	150'	42"	0.15%	D10	
D10	TYPE "J" MH – R-3455-C	729.63	42" RCP 722.26 (S) [D9]	48" RCP 722.13 (N) [D11]	95'	48"	0.10%	D11	
D11	TYPE "J" MH – R-3287-SB10	731.84	48" RCP 722.03 (S) [D10]	48" RCP 722.03 (NW) [D12]	78'	48"	0.10%	D12	
D12	TYPE "J" INLET – R-3287-SB10	733.07	48" RCP 721.95 (SE) [D11]	48" RCP 721.95 (NW) [D13]	204'	48"	0.10%	D13	
D13	48" FLARED END SECTION		48" RCP 721.75 (SE) [D12]						
D14	TYPE "J" INLET – R-3287-SB10	732.41		15" RCP 730.19 (N) [D18]	63'	15"	0.17%	D18	
D15	TYPE "J" INLET – R-3287-SB10	733.07	15" RCP 729.98 (E) [D18]	18" RCP 729.88 (NW) [D16]	148'	18"	0.45%	D16	
D16	18" FLARED END SECTION		18" RCP 729.21 (SE) [D15]						
D17	TYPE "J" INLET – R-3287-SB10	733.70	18" RCP 725.90 (SW) [D19]	18" RCP 725.80 (E) [D4]	19'	18"	0.59%	D4	
D18	TYPE "J" INLET – R-3287-SB10	732.67	15" RCP 730.08 (S) [D14]	15" RCP 730.08 (W) [D15]	57'	15"	0.19%	D15	
D19	TYPE "C" MH – R-1772	734.76	18" RCP 726.59 (SW) [D3]	18" RCP 726.49 (NE) [D17]	99'	18"	0.59%	D17	
D20	TYPE "J" INLET – R-3287-SB10	733.05		15" RCP 728.76 (N) [D21]	65'	15"	2.66%	D21	
D21	TYPE "J" INLET – R-3287-SB10	730.50	15" RCP 727.03 (S) [D20]	18" RCP 726.79 (N) [D22]	58'	18"	0.76%	D22	
D22	18" FLARED END SECTION		18" RCP 726.35 (S) [D21]						
D23	TYPE "J" INLET – R-3287-SB10	732.03		12" RCP 728.63 (N) [D24]	67'	12"	1.30%	D24	
D24	TYPE "J" INLET – R-3287-SB10	733.06	12" RCP 727.76 (S) [D23]	12" RCP 727.76 (N) [D25]	65'	12"	1.34%	D25	
D25	TYPE "J" INLET – R-3287-SB10	731.06	12" RCP 726.88 (S) [D24]	12" RCP 726.79 (N) [D26]	58'	12"	0.75%	D26	
D26	12" FLARED END SECTION		12" RCP 726.35 (S) [D25]						
D28	24" FLARED END SECTION		24" RCP 725.53 (W) [OCS]						
D29	12" FLARED END SECTION			12" RCP 728.00 (N) [D30]	83'	12"	1.00%	D30	
D30	12" FLARED END SECTION		12" RCP 727.17 (S) [D29]						
OCS	OCS – SEE DETAILS	729.16		24" RCP 725.85 (E) [D28]	65'	24"	0.50%	D28	
UD1	CLEANOUT	726.54		6" HDPE 726.00 (N) [UD2]	150'	6"	0.00%	UD2	
UD2	CLEANOUT	726.54	6" HDPE 726.00 (S) [UD1]	6" HDPE 726.00 (N) [UD3]	150'	6"	0.00%	UD3	
UD3	CLEANOUT	726.54	6" HDPE 726.00 (S) [UD2]	6" HDPE 726.00 (N) [UD4]	150'	6"	0.00%	UD4	
UD4	CLEANOUT	726.54	6" HDPE 726.00 (S) [UD3]	6" HDPE 726.00 (N) [UD5]	150'	6"	0.00%	UD5	
UD5	CLEANOUT	726.54	6" HDPE 726.00 (S) [UD4]	6" HDPE 726.00 (N) [UD6]	150'	6"	0.00%	UD6	
UD6	CLEANOUT	726.54	6" HDPE 726.00 (S) [UD5]	6" HDPE 726.00 (N) [UD7]	158'	6"	0.00%	UD7	
UD7	CLEANOUT	727.54	6" HDPE 726.00 (S) [UD6]	6" HDPE 726.00 (NE) []	33'	6"	0.00%		

SANITARY SEWER STRUCTURE DATA TABLE

STR. NO:	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS
CO 1A	CONNECT TO BLDG	731.23		6" PVC 722.53 (E) [CO 1B]	58'	6"	1.08%	CO 1B	
CO 1B	6" PVC CLEANOUT	730.76	6" PVC 721.90 (W) [CO 1A]	6" PVC 721.90 (E) [CO 1C]	100'	6"	1.08%	CO 1C	
CO 1C	6" PVC CLEANOUT	733.47	6" PVC 720.82 (W) [CO 1B]	6" PVC 720.82 (E) [WYE 1]	36'	6"	1.08%	WYE 1	
CO 2A	CONNECT TO BLDG	734.70		6" PVC 721.20 (E) [CO 2B]	56'	6"	1.08%	CO 2B	
CO 2B	6" PVC CLEANOUT	731.06	6" PVC 720.60 (W) [CO 2A]	6" PVC 720.60 (E) [CO 2C]	100'	6"	1.08%	CO 2C	
CO 2C	6" PVC CLEANOUT	734.87	6" PVC 719.52 (W) [CO 2B]	6" PVC 719.52 (E) [WYE 2]	40'	6"	1.08%	WYE 2	
WYE 1	45° WYE	732.25	6" PVC 720.44 (W) [CO 1C]						
WYE 2	45° WYE	732.38	EXISTING PIPE 718.61 (N) [26] 6" PVC 719.08 (W) [CO 2C]	EXISTING PIPE 718.61 (S) [27]	250'	4"	0.41%	27	

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STRUCTURE DATA TABLE

FRANKLIN INDUSTRIAL
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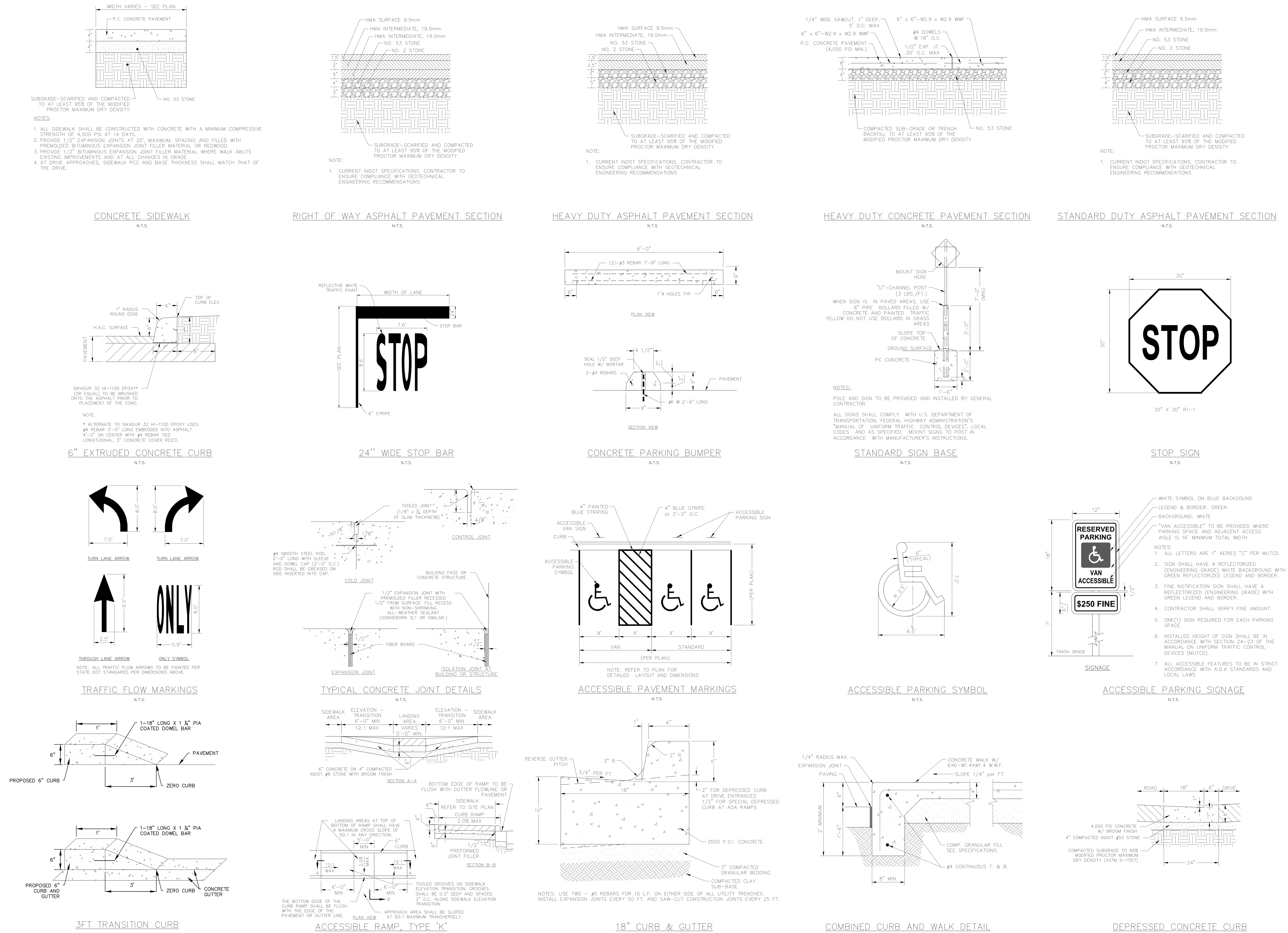
ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER

C6.10



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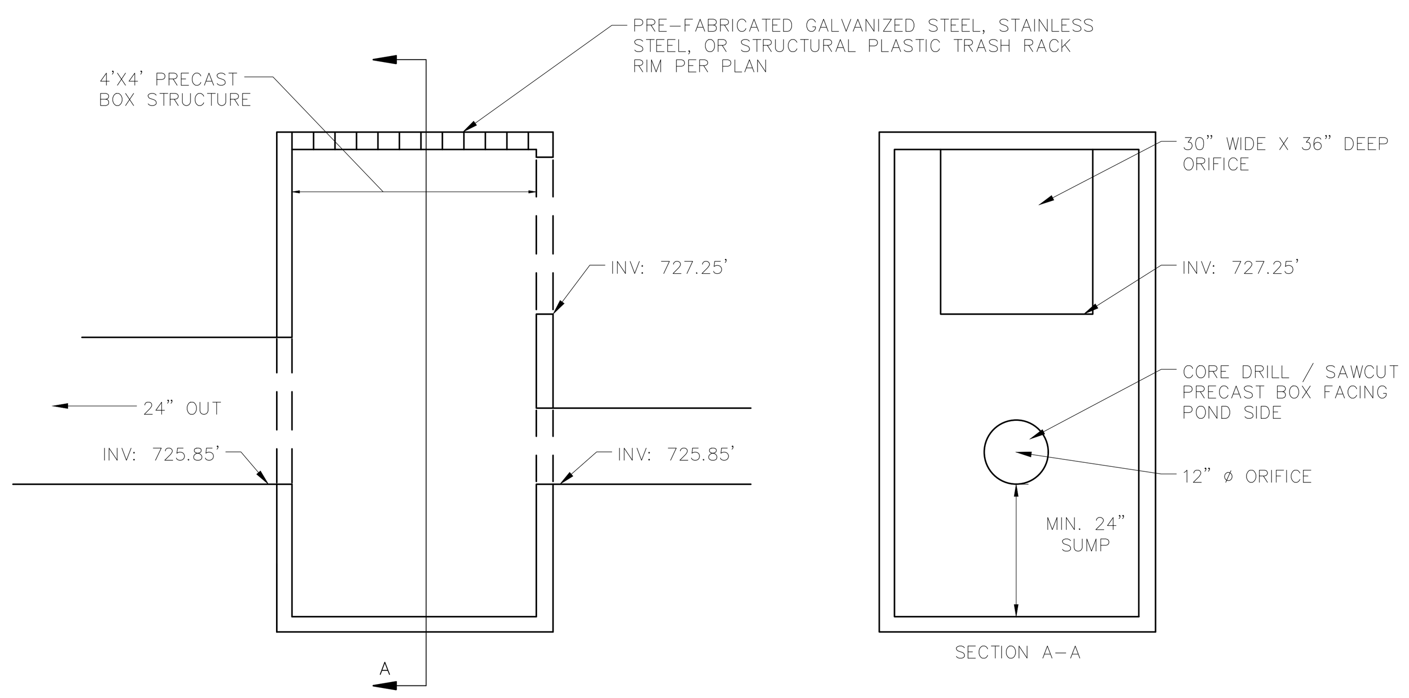
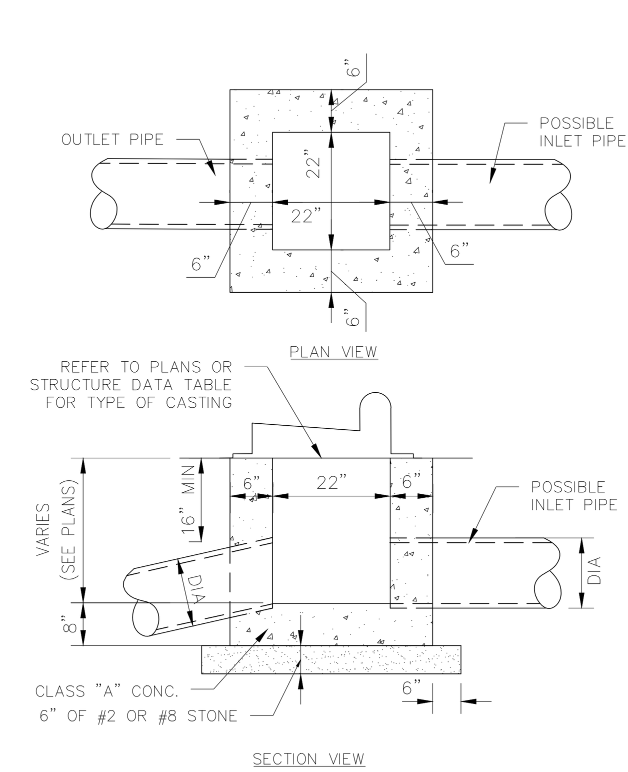
ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C7.0



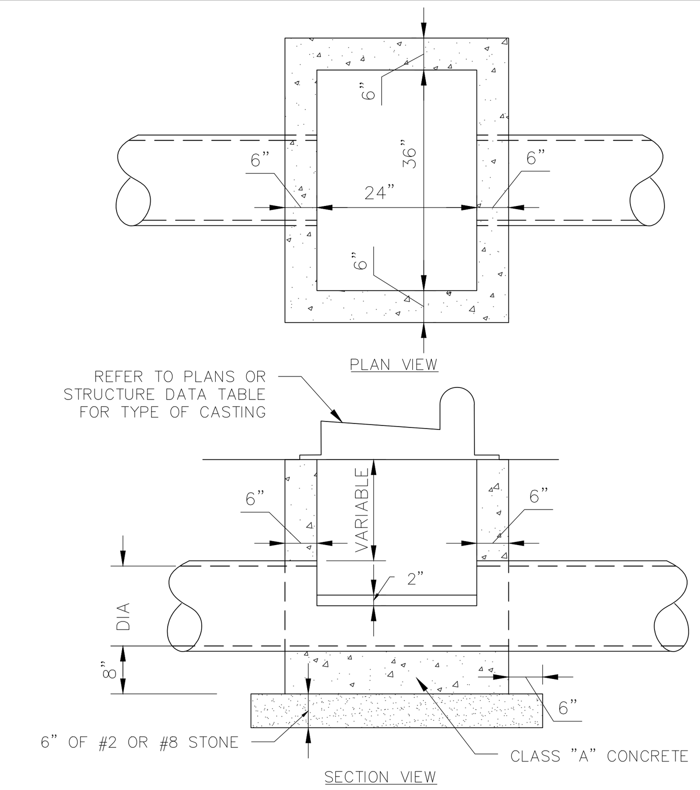
OUTLET CONTROL STRUCTURE

N.T.S.



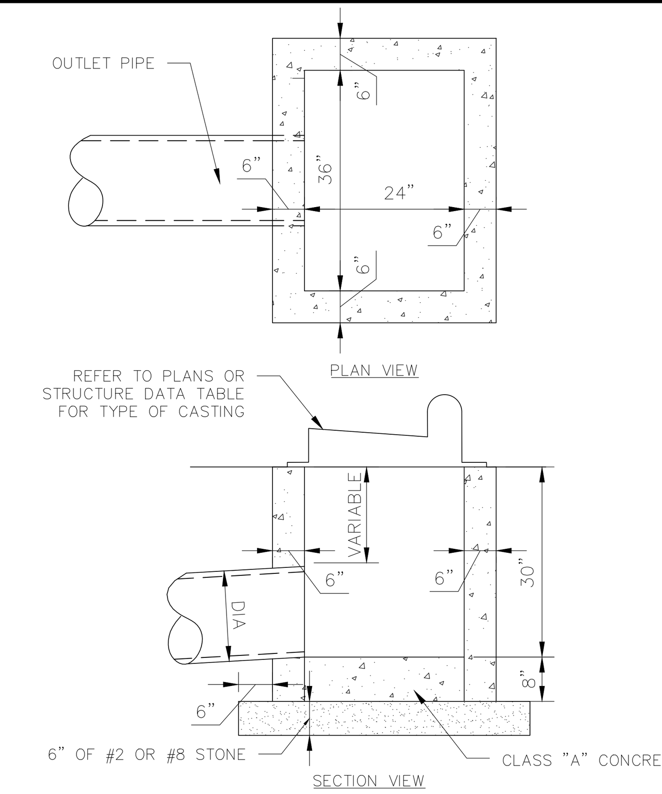
INLET TYPE "A" DETAIL

N.T.S.



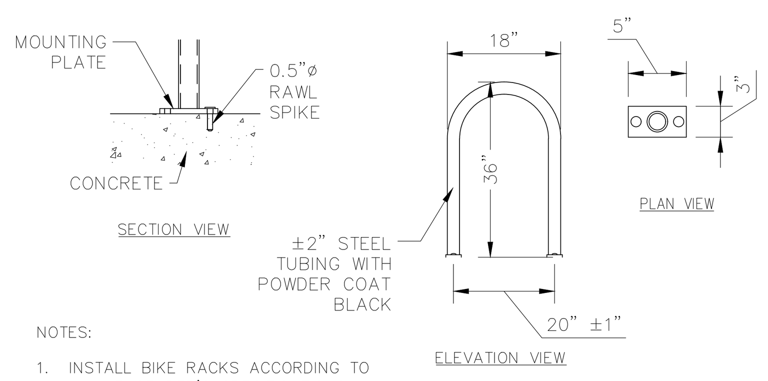
INLET TYPE "M" DETAIL

N.T.S.



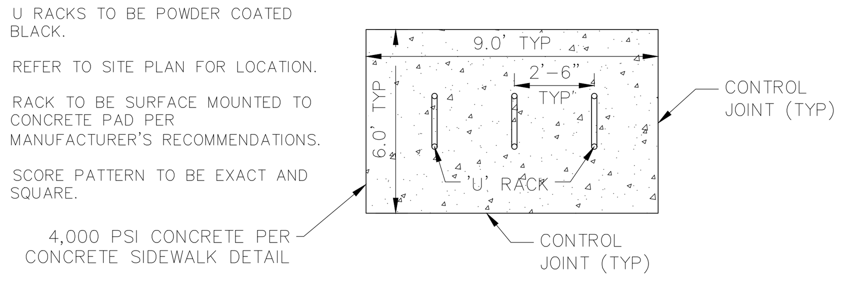
INLET TYPE "J" DETAIL

N.T.S.



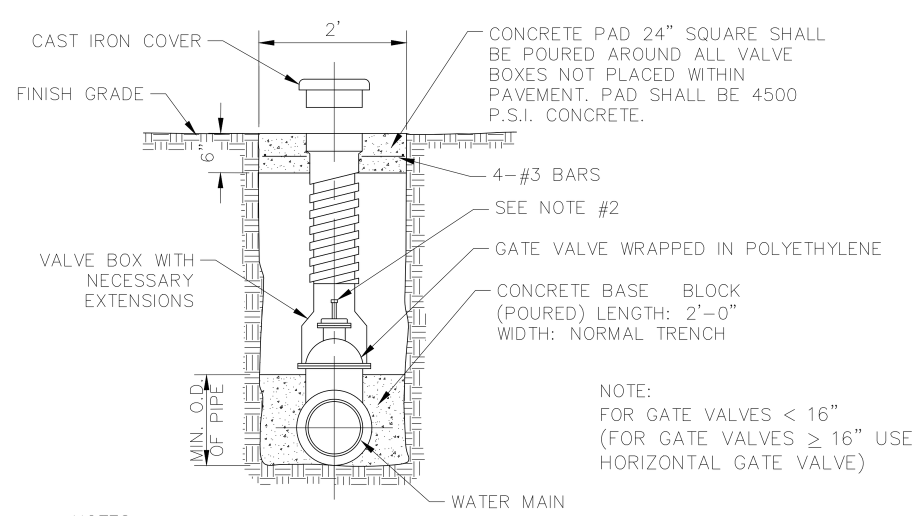
NOTES:

1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. U RACKS TO BE POWDER COATED BLACK.
3. REFER TO SITE PLAN FOR LOCATION.
4. RACK TO BE SURFACE MOUNTED TO CONCRETE PAD PER MANUFACTURER'S RECOMMENDATIONS.
5. SCORE PATTERN TO BE EXACT AND SQUARE.



BIKE RACK ('U' STYLE)

N.T.S.

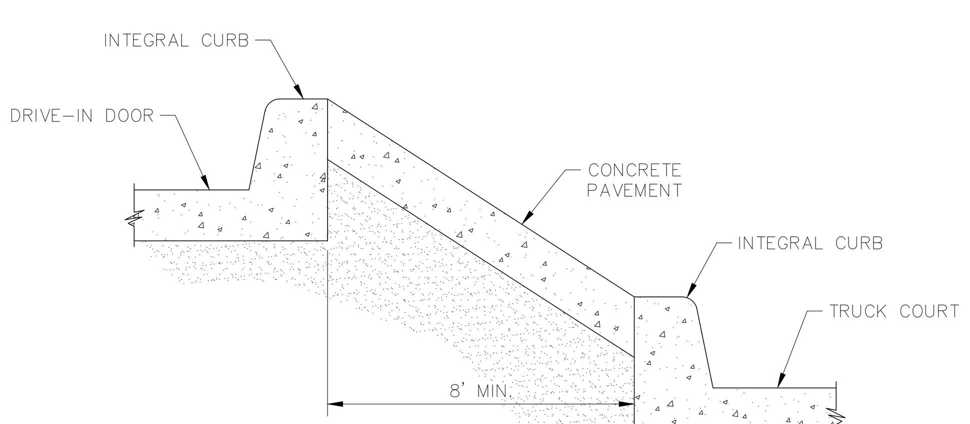


NOTES:

1. 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED IF THE OPERATING NUT FOR ANY VALVE IS LOCATED IN EXCESS OF 4' BELOW THE TOP OF THE VALVE BOX. THIS EXTENSION SHALL BE SUFFICIENT LENGTH TO ENSURE THAT THE TOP IS WITHIN 4' OF THE VALVE BOX LID.
3. DUCTILE IRON OR C-900 PVC PIPE SHALL BE USED FOR VALVE STACKS WITH VALVE BOX CASTING.
4. PLACE A BLUE DOT (3") ON NEAREST CURB FACE TO VALVE.

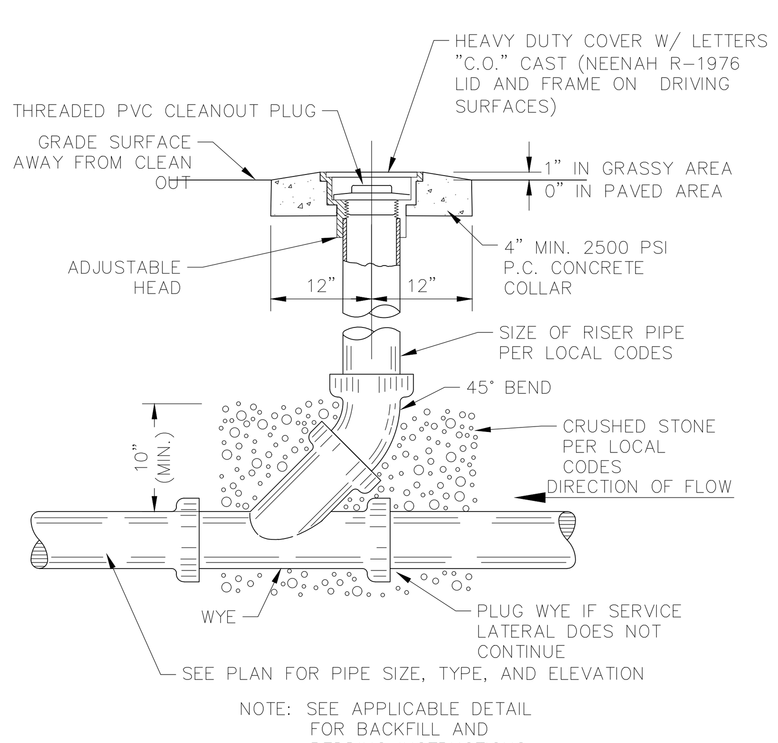
TYPICAL VALVE SETTING AND BOX

N.T.S.



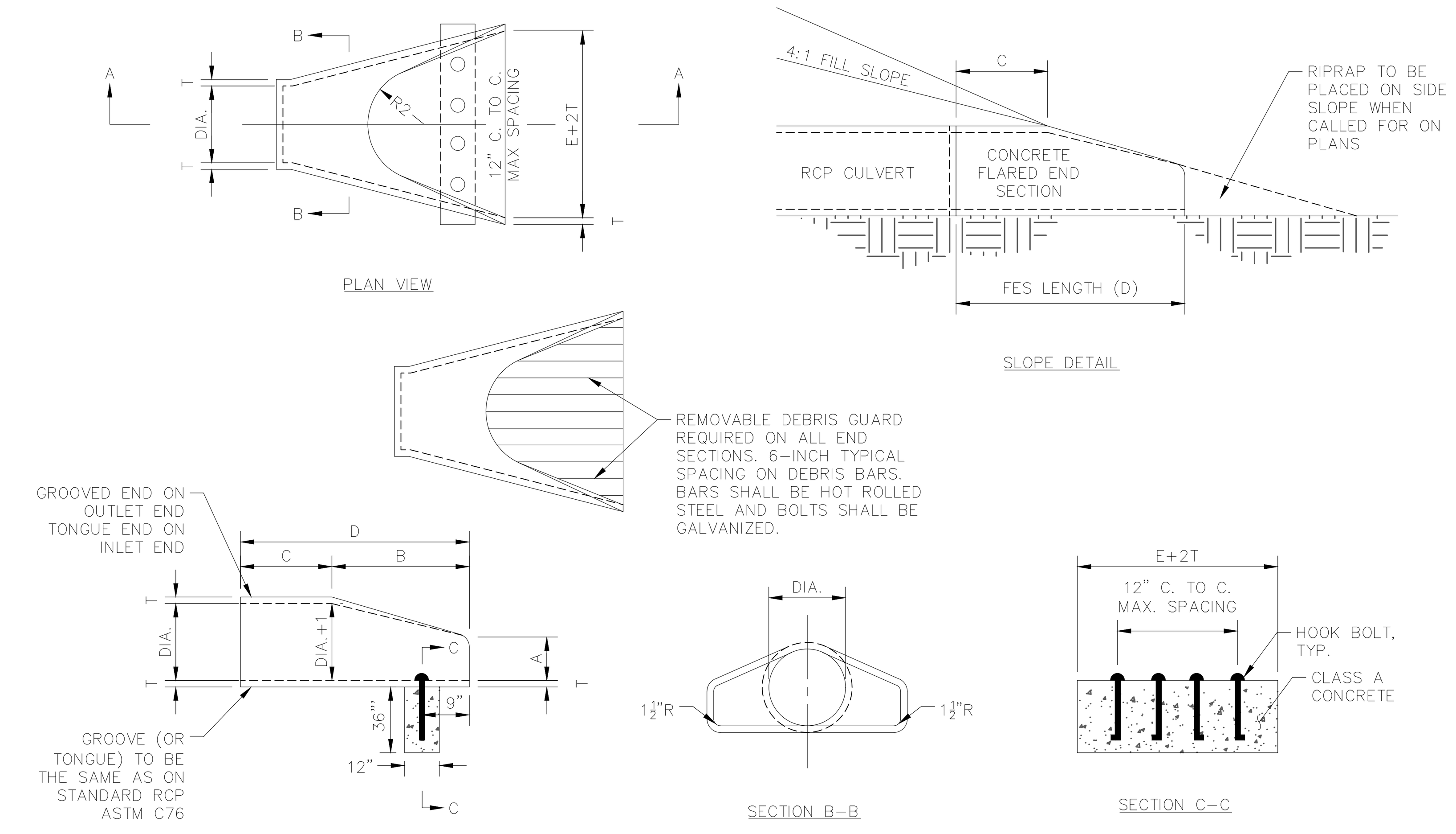
DRIVE-IN DOOR TO DOCK TRANSITION

N.T.S.



SANITARY/STORM CLEAN-OUT

N.T.S.



NOTES:

1. CONCRETE AND REINFORCEMENT IN THE PRECAST FES SHALL BE THE SAME GRADE AND STRENGTH AS LISTED IN ASTM C76.
2. THE END OF THE PIPE CULVERT SHALL BE P LACED IN THE FES SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.
3. IN 3:1 OR 4:1 FILL SLOPE, CHANGE THE SLOPE OF THE FES TO TO PROVIDE A SMOOTH TRANSITION APPROXIMATELY 10' IN LENGTH.
4. THE FES AND PIPE CULVERT DIMENSIONS SHALL MEET ASTM C76.
5. CONCRETE KEY-IN TOES SHALL BE REQUIRED ON ALL FES.

DIA.	T (MIN)	A*	C*	D*	E*	K	R1	R2	~WEIGHT (LB)
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	$10\frac{1}{8}$"	9"	800
15"	$2\frac{1}{4}$"	7"	4'-0"	6'-3"	2'-6"	1.5	$12\frac{1}{2}$"	11"	1100
18"	$2\frac{1}{2}$"	11"	4'-1"	6'-2"	3'-0"	1.8	$15\frac{1}{2}$"	12"	1300
21"	$2\frac{3}{4}$"	11"	3'-6"	6'-3"	3'-6"	2.1	$16\frac{1}{8}$"	13"	1500
24"	3"	12"	2'-8"	6'-3"	4'-0"	2.3	$16\frac{3}{16}$"	14"	1800
27"	$3\frac{1}{4}$"	13"	2'-5"	6'-3"	4'-6"	2.6	$18\frac{3}{16}$"	$14\frac{1}{2}$"	2100
30"	$3\frac{1}{2}$"	14"	1'-10"	6'-3"	5'-0"	2.9	$18\frac{1}{2}$"	15"	2400
33"	$3\frac{3}{4}$"	15"	3'-6"	8'-3"	5'-6"	3.1	$23\frac{3}{4}$"	$17\frac{1}{2}$"	4100
36"	4"	17"	3'-1"	8'-3"	6'-0"	3.4	$24\frac{3}{16}$"	20"	4200

* 1" TOLERANCE

END SECTION AND KEY-IN DETAIL

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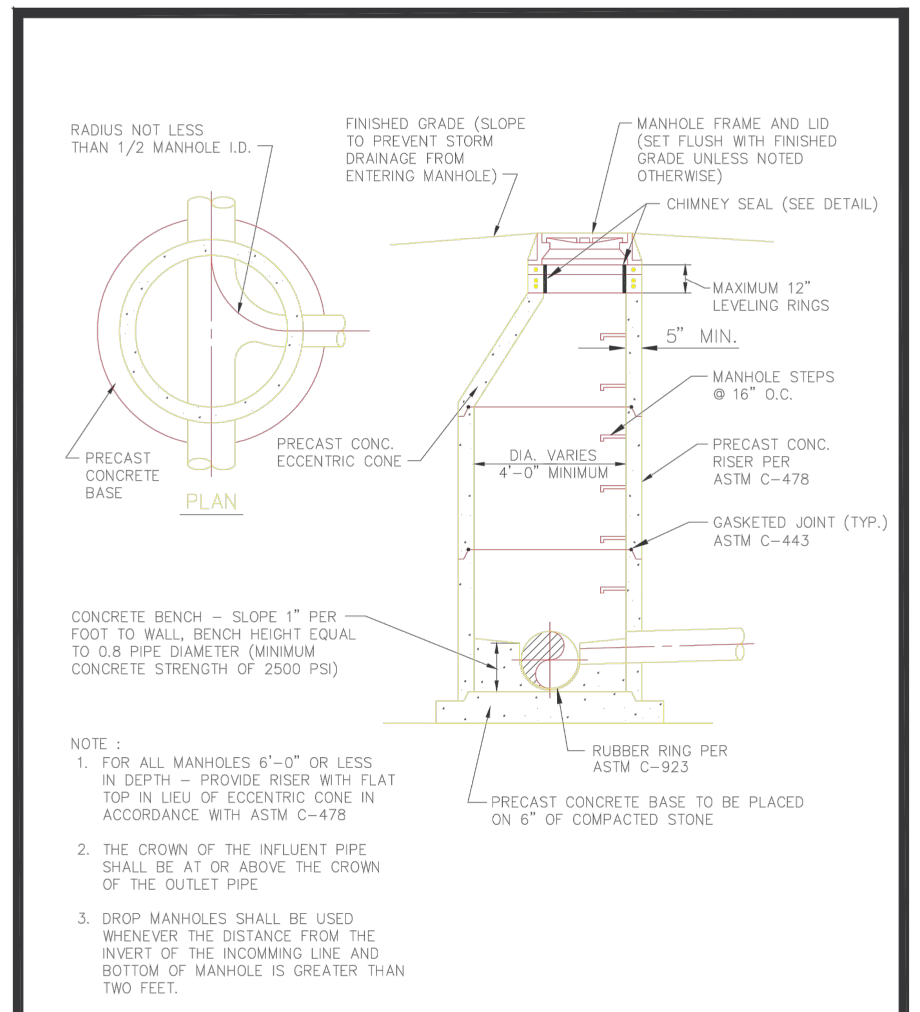
ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER

C7.1



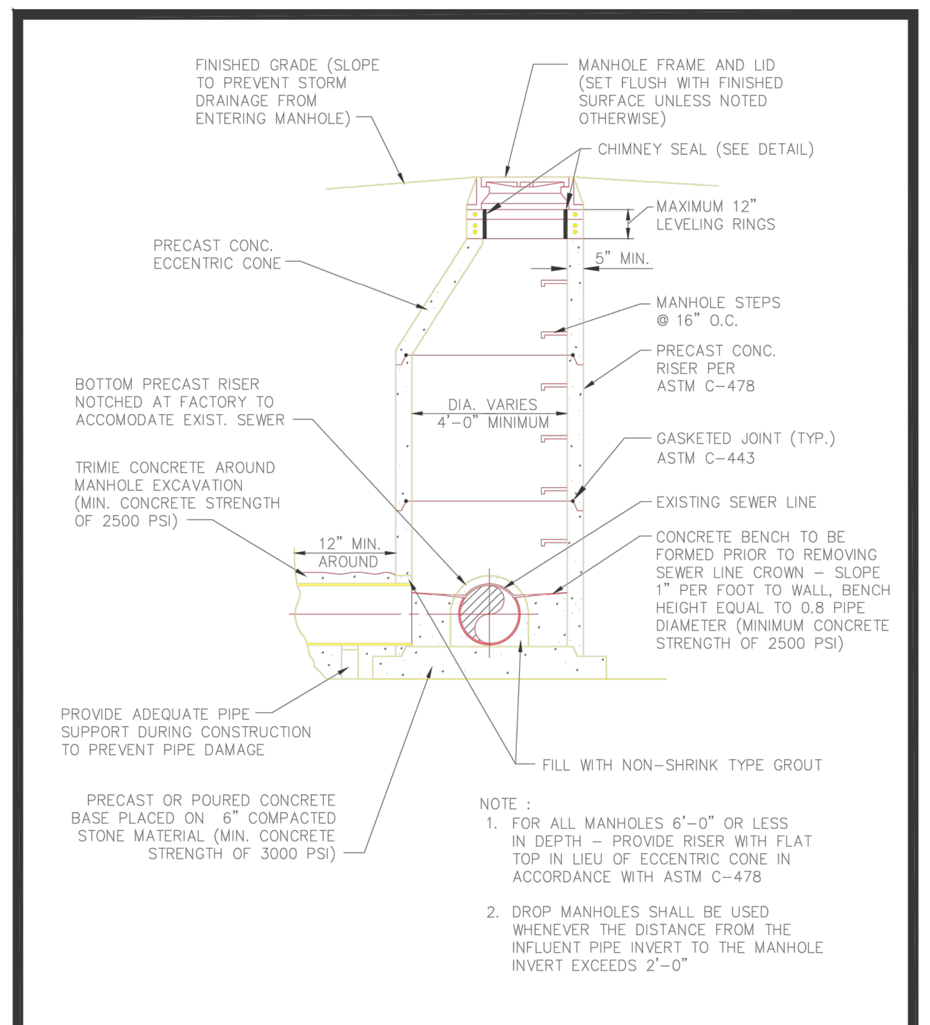
STANDARD MANHOLE DETAIL

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 5-1



PRECAST MANHOLE ADDED OVER EXISTING SEWER

CITY of FRANKLIN, INDIANA

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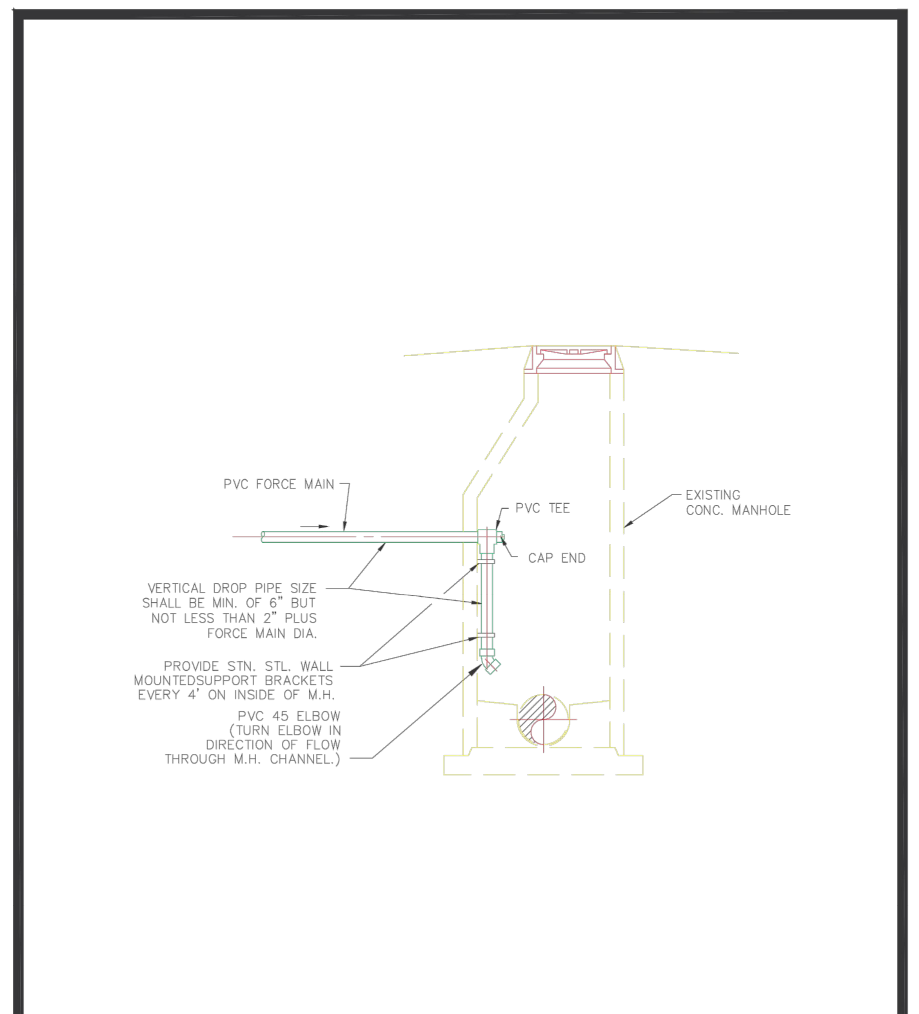
FIGURE

Illustration 5-2



FORCE MAIN DROP INTO EXISTING MANHOLE

CITY of FRANKLIN, INDIANA

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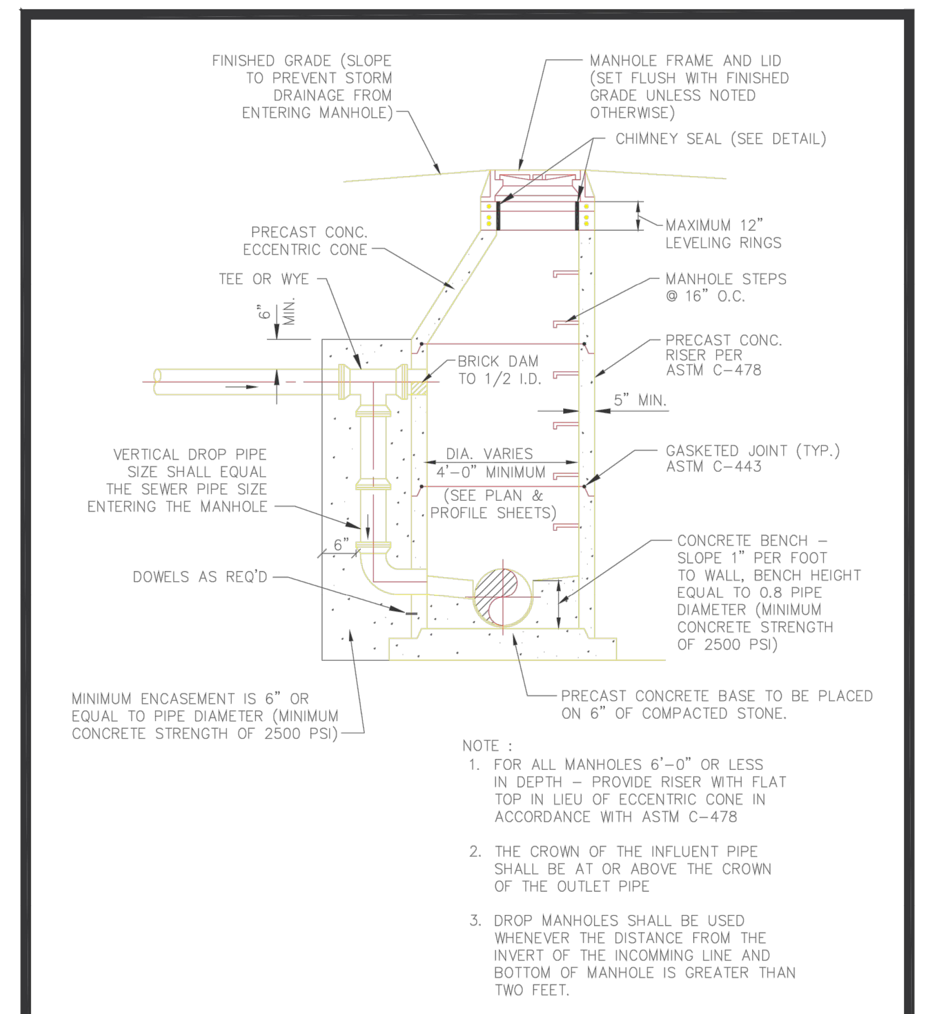
FIGURE

Illustration 5-3



PRECAST DROP MANHOLE DETAIL

CITY of FRANKLIN, INDIANA

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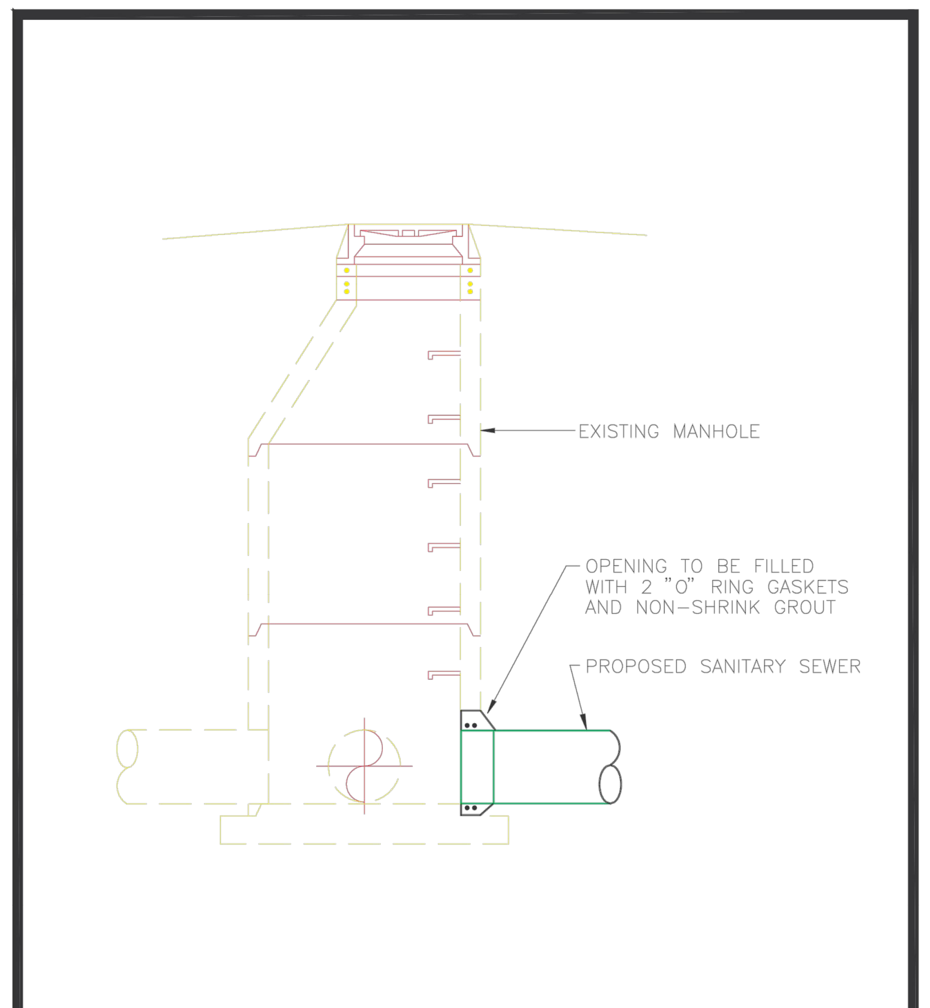
FIGURE

Illustration 5-4



TYPICAL EXISTING MANHOLE ENTRY DETAIL

CITY of FRANKLIN, INDIANA

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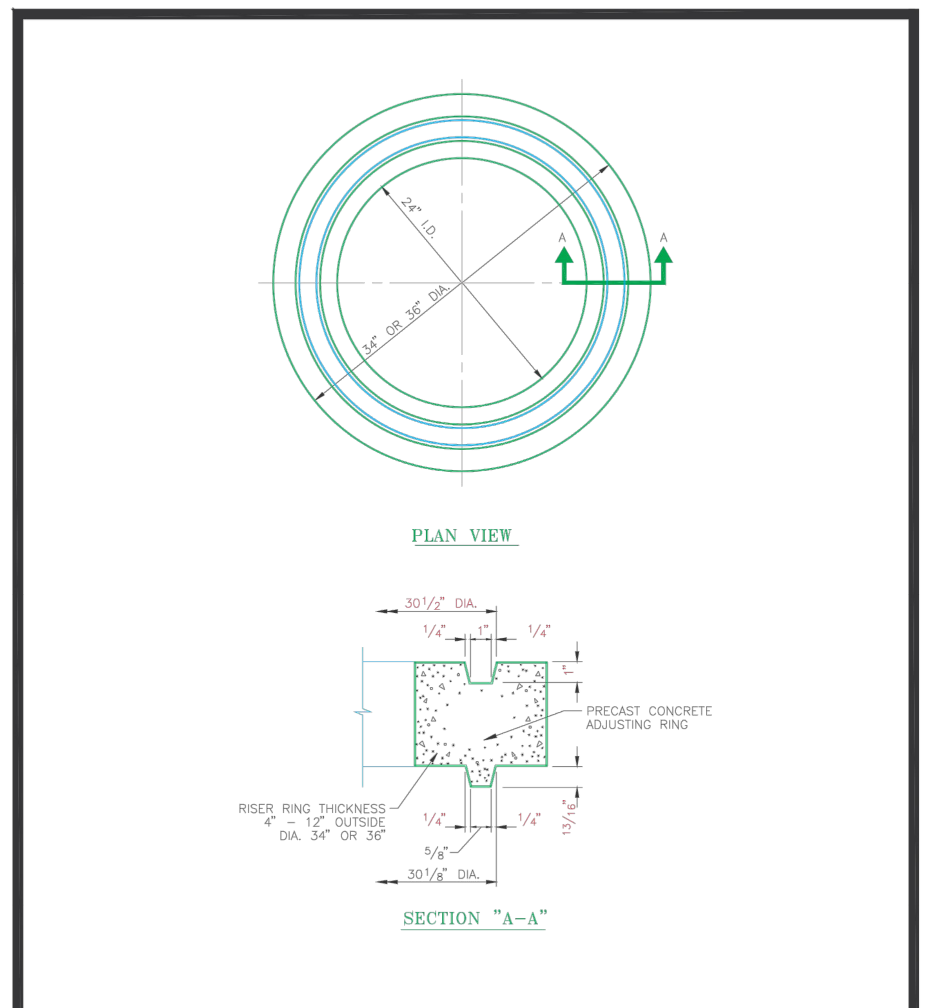
FIGURE

Illustration 5-5



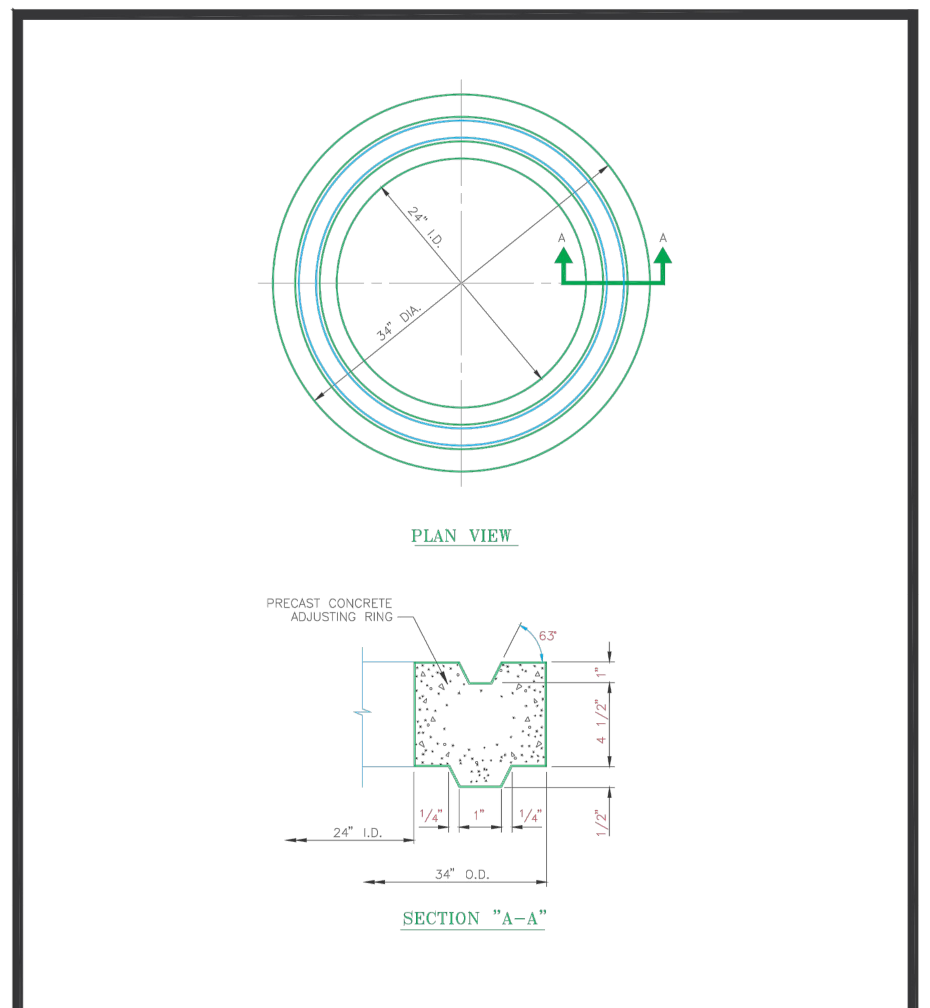
TYPICAL 5/8" ADJUSTING RING

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 5-6



TYPICAL 1" ADJUSTING RING

CITY of FRANKLIN, INDIANA

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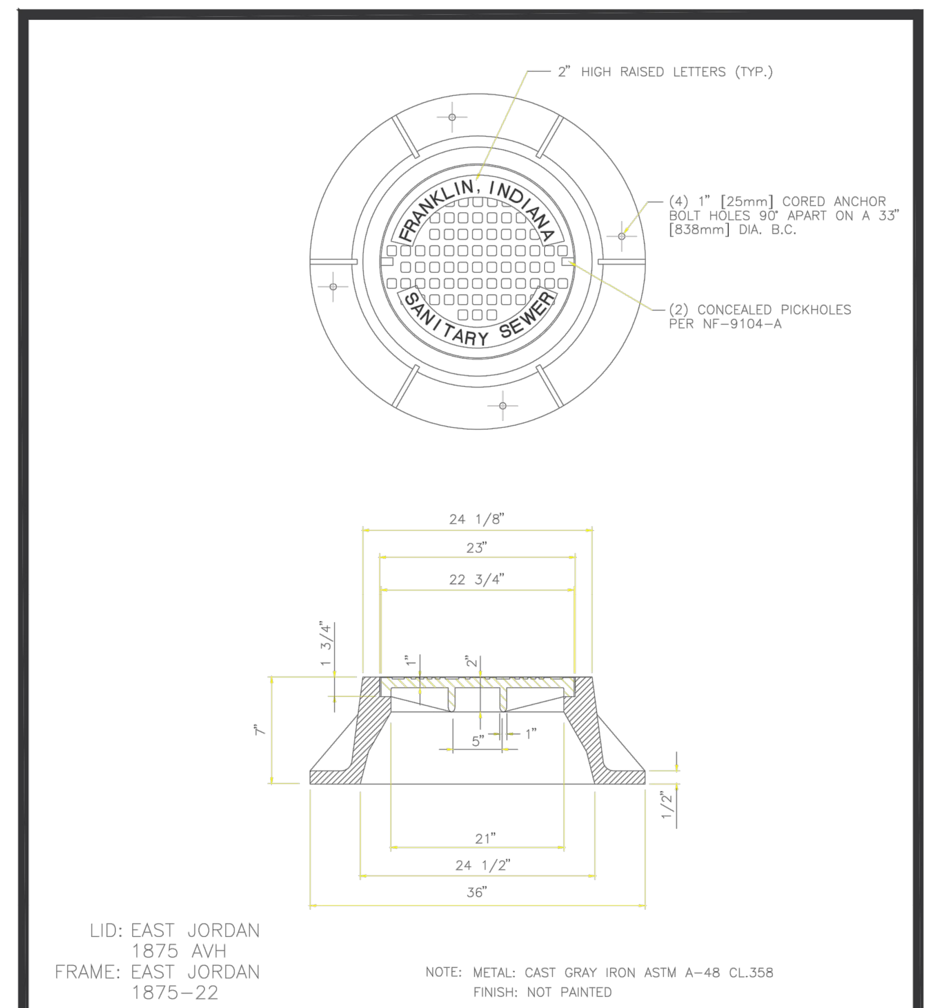
FIGURE

Illustration 5-7



STANDARD FRAME AND LID

CITY of FRANKLIN, INDIANA

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FIGURE

Illustration 5-8

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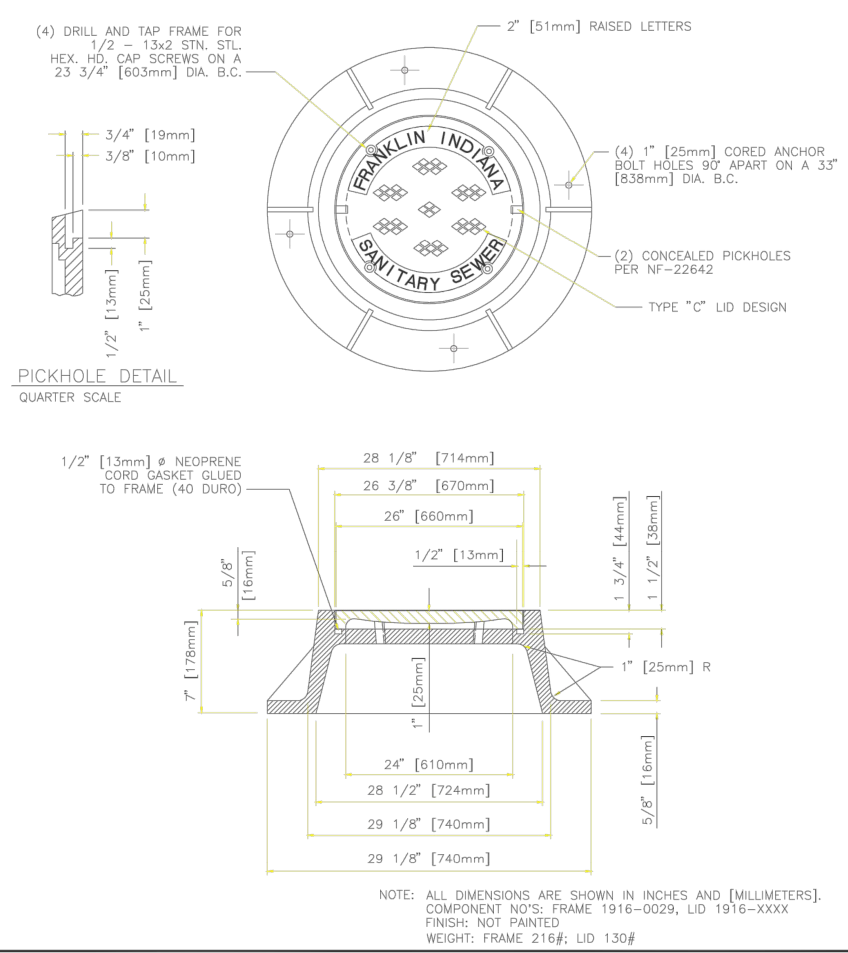
ORIGINAL ISSUE: 9/9/2021

KHA PROJECT NO. 170024027

SHEET NUMBER

C7.2



TYPICAL WATERTIGHT FRAME AND LID

CITY of FRANKLIN, INDIANA

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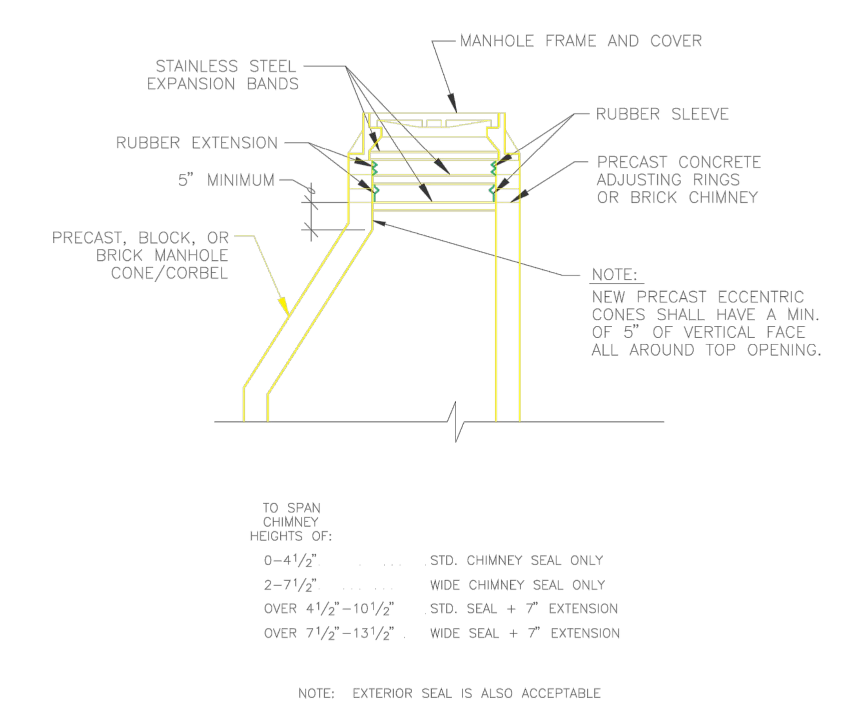
FIGURE

Illustration 5-9



TYPICAL CHIMNEY SEAL DETAIL

CITY of FRANKLIN, INDIANA

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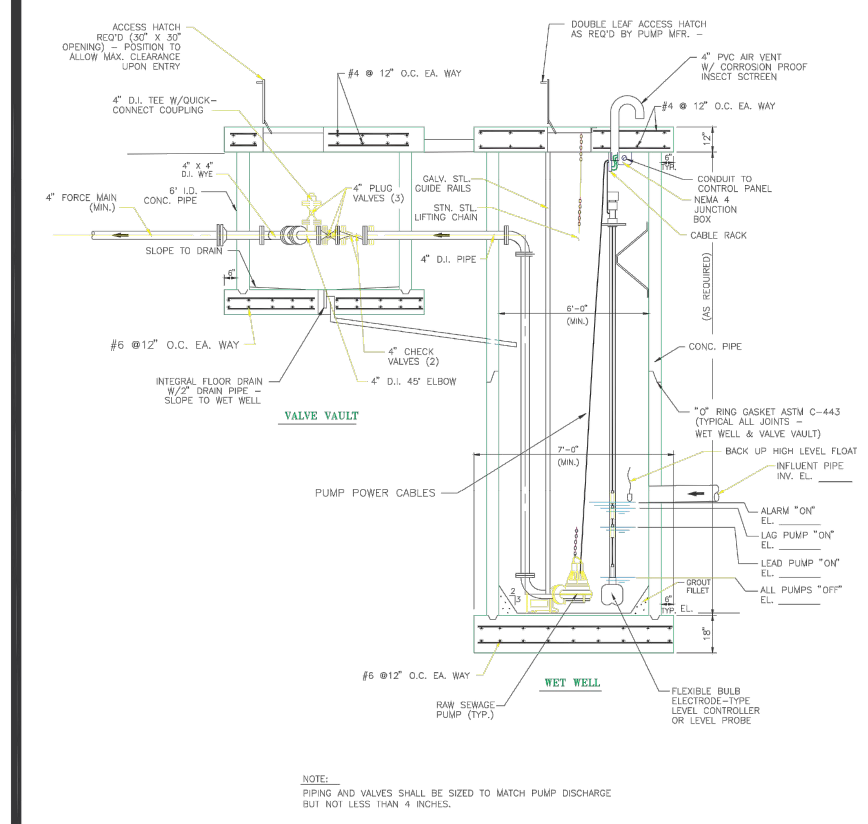
FIGURE

Illustration 5-10



TYPICAL PUMP STATION SECTION

CITY of FRANKLIN, INDIANA

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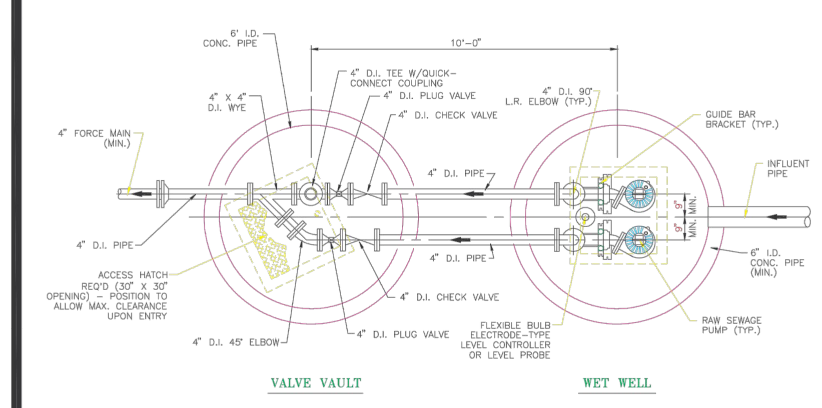
FIGURE

Illustration 6-1



NOTE:
PIPING AND VALVES SHALL BE SIZED TO MATCH PUMP DISCHARGE, BUT NOT LESS THAN 4 INCHES.

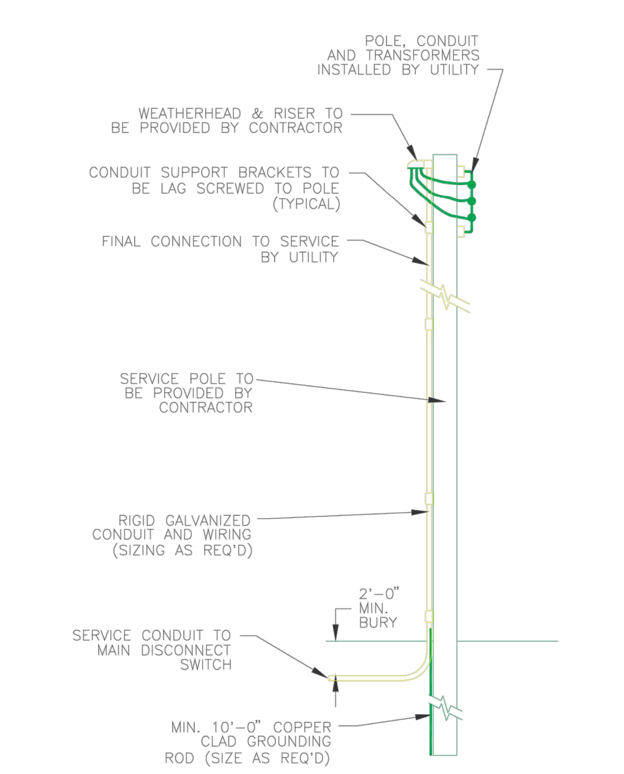
TYPICAL PUMP STATION PLAN

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 6-2



SERVICE POLE ELECTRIC DETAIL

CITY of FRANKLIN, INDIANA

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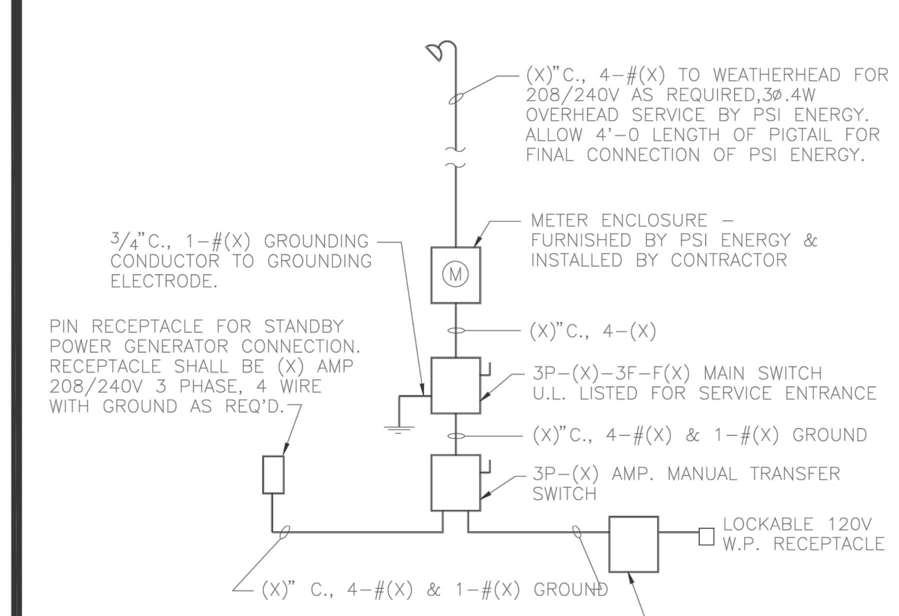
FIGURE

Illustration 6-3



NOTES:

MAIN SWITCH, MANUAL TRANSFER SWITCH AND PUMP CONTROL PANEL SHALL BE MOUNTED IN NEMA 3R OR 4X STAINLESS STEEL ENCLOSURES.

(X) – INDICATES VARIABLE SIZING REQUIREMENTS.

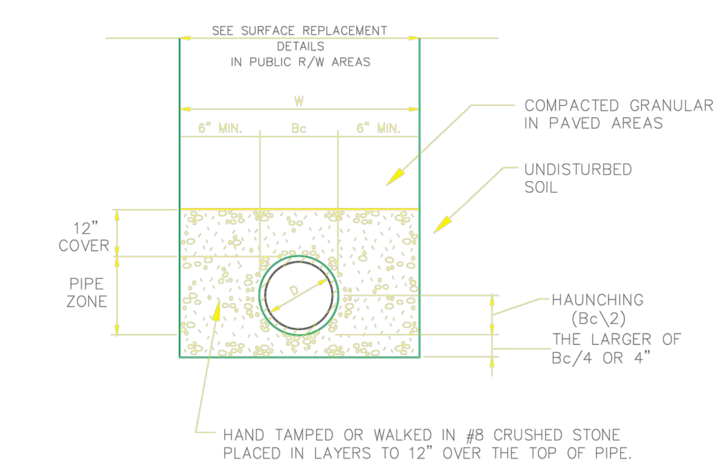
TYPICAL LIFT STATION
POWER DISTRIBUTION SCHEMATIC DETAIL

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 6-4



W = MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOR SIX (6) FEET FOR 27" THROUGH 48" PIPE
D = PIPE DIAMETER (INTERNAL)
Bc = PIPE DIAMETER (EXTERNAL)

NOTES:

1. BEDDING STOPS AT A POINT 12" ABOVE THE TOP OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA STATE HIGHWAY COMMISSION SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. OTHERWISE, COMPACTED GRANULAR BACKFILL MATERIAL SHALL ONLY BE USED UNDER PAVEMENT SURFACES OR OTHER SPECIFICALLY DESIGNATED AREAS.

FIRST CLASS PIPE LAYING METHOD FOR:
1) FLEXIBLE (PVC, RPVC, ABS & HDPE PIPE) AND
2) DUCTILE IRON WITHIN PVM'T LIMITS

CITY of FRANKLIN, INDIANA

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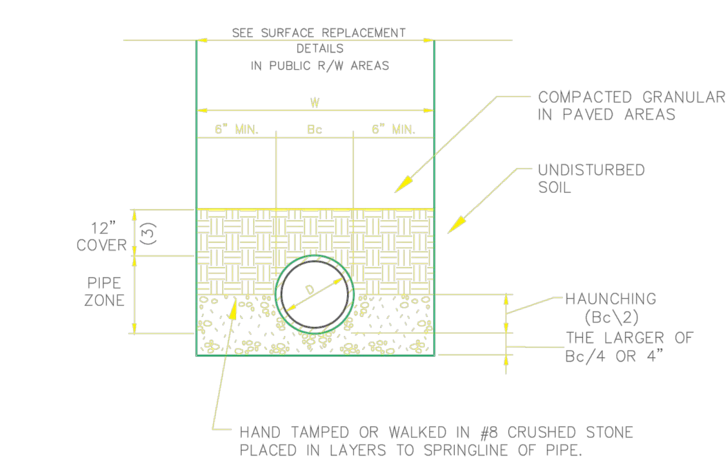
FIGURE

Illustration 7-1



W = MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOR SIX (6) FEET FOR 27" THROUGH 48" PIPE
D = PIPE DIAMETER (INTERNAL)
Bc = PIPE DIAMETER (EXTERNAL)

NOTES:

1. BEDDING STOPS AT SPRINGLINE OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA STATE HIGHWAY COMMISSION SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. OTHERWISE, COMPACTED GRANULAR BACKFILL MATERIAL SHALL ONLY BE USED UNDER PAVEMENT SURFACES OR OTHER SPECIFICALLY DESIGNATED AREAS.
3. GRANULAR FILL IN PAVED AREAS

FIRST CLASS PIPE LAYING METHOD FOR:
RIGID CONDUITS (RCP & CMP)

CITY of FRANKLIN, INDIANA

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FIGURE

Illustration 7-2

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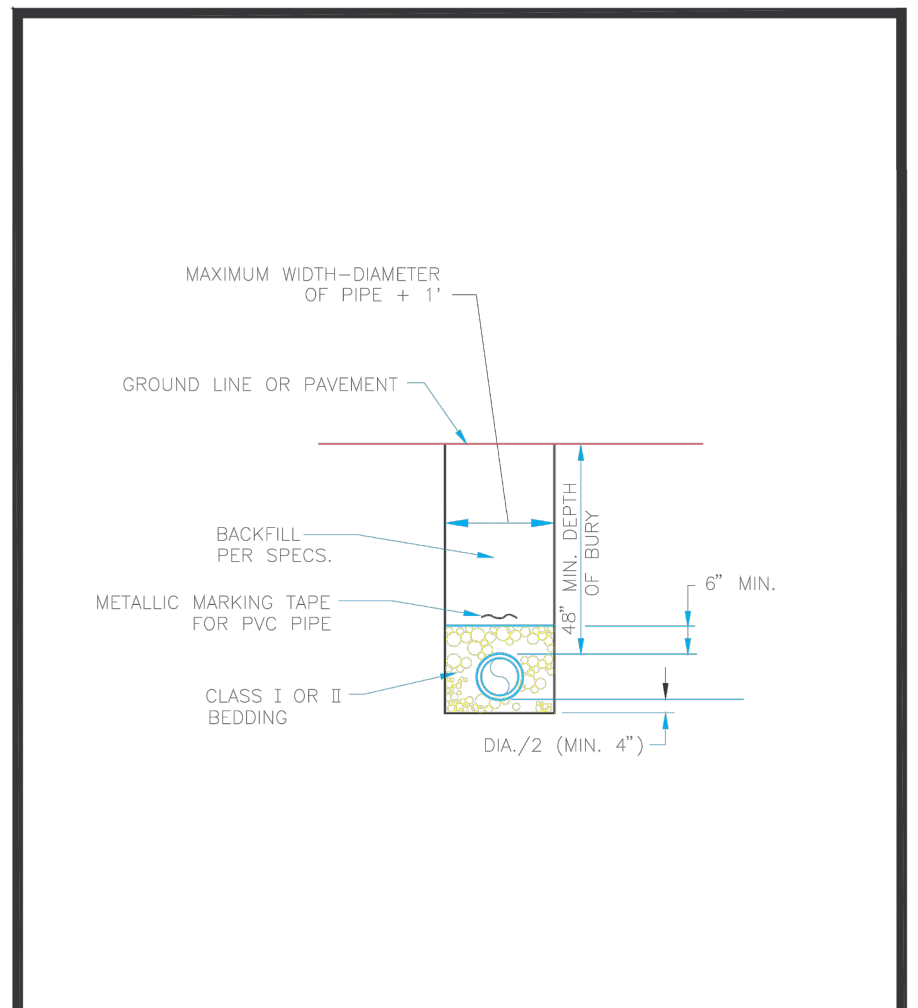
ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C7.3



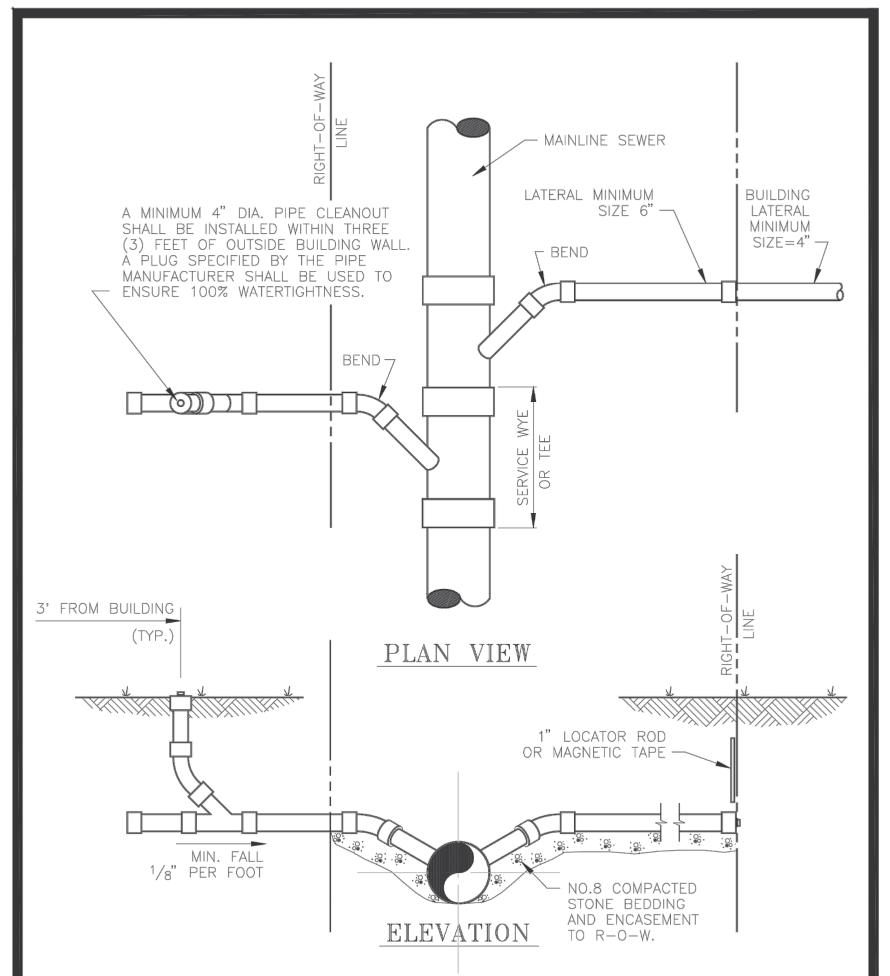
FORCE MAIN PIPE TRENCH DETAIL

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-3



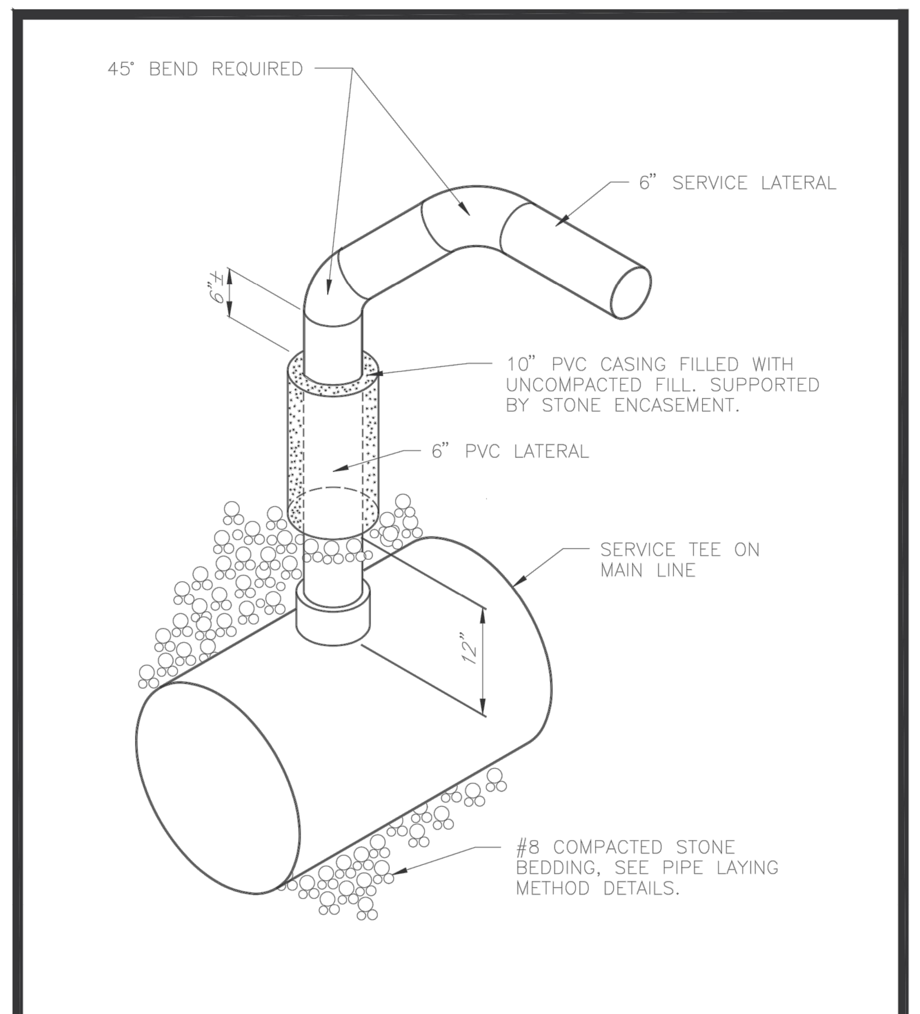
SERVICE CONNECTION FOR SHALLOW SEWERS (LESS THAN 15' DEEP)

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-4



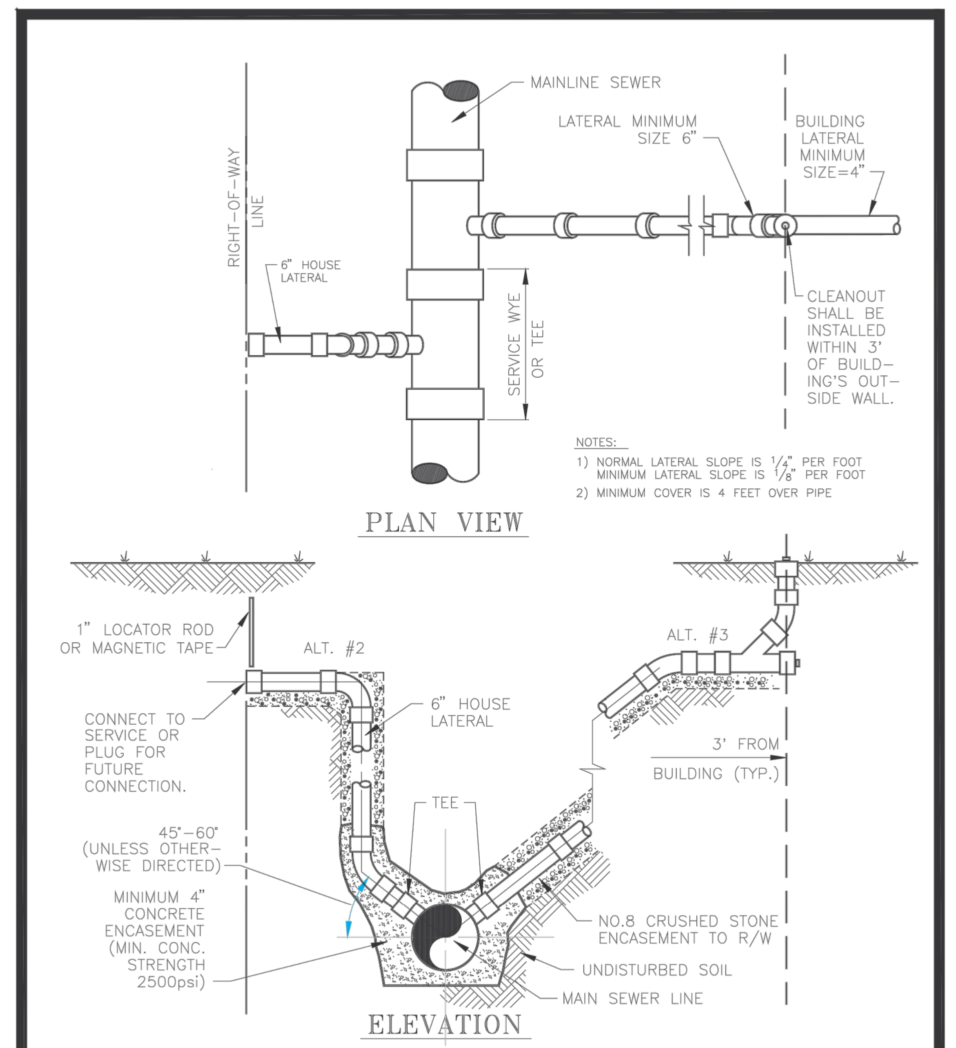
DEEP LATERAL INSTALLATION OVER 15' DEEP (ALT. #1)

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-5



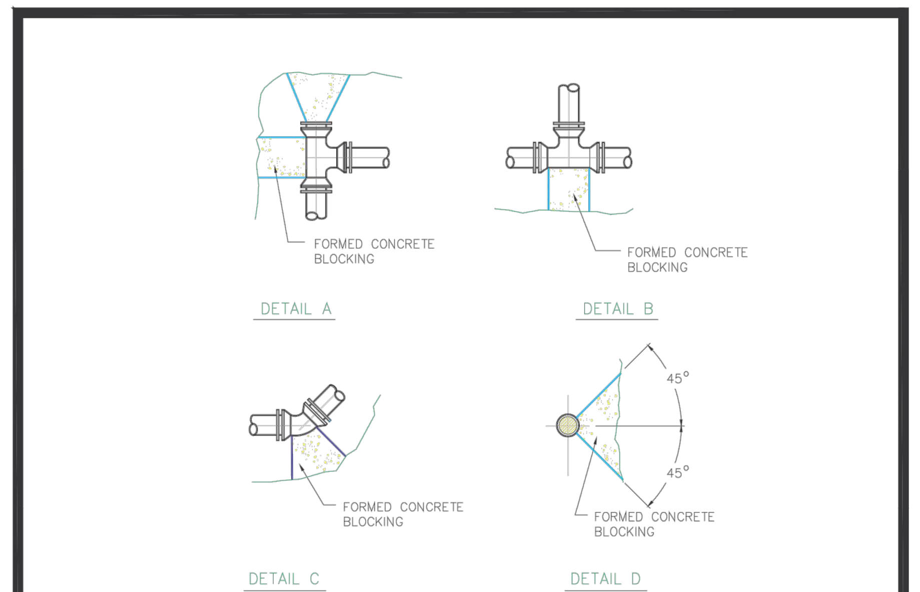
SERVICE CONNECTION FOR SHALLOW SEWERS (ALT.#2 & ALT.#3) (LESS THAN 15' DEEP)

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-6



AREA IN SQUARE FEET REQUIRED FOR CONCRETE THRUST BLOCKING					
SIZE	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	6.5	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.5	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0

NOTES:

1. THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING LOAD OF 2,000 lb./SQ. FT.
2. GREASE ALL PIPE SURFACES PRIOR TO PLACEMENT OF CONCRETE

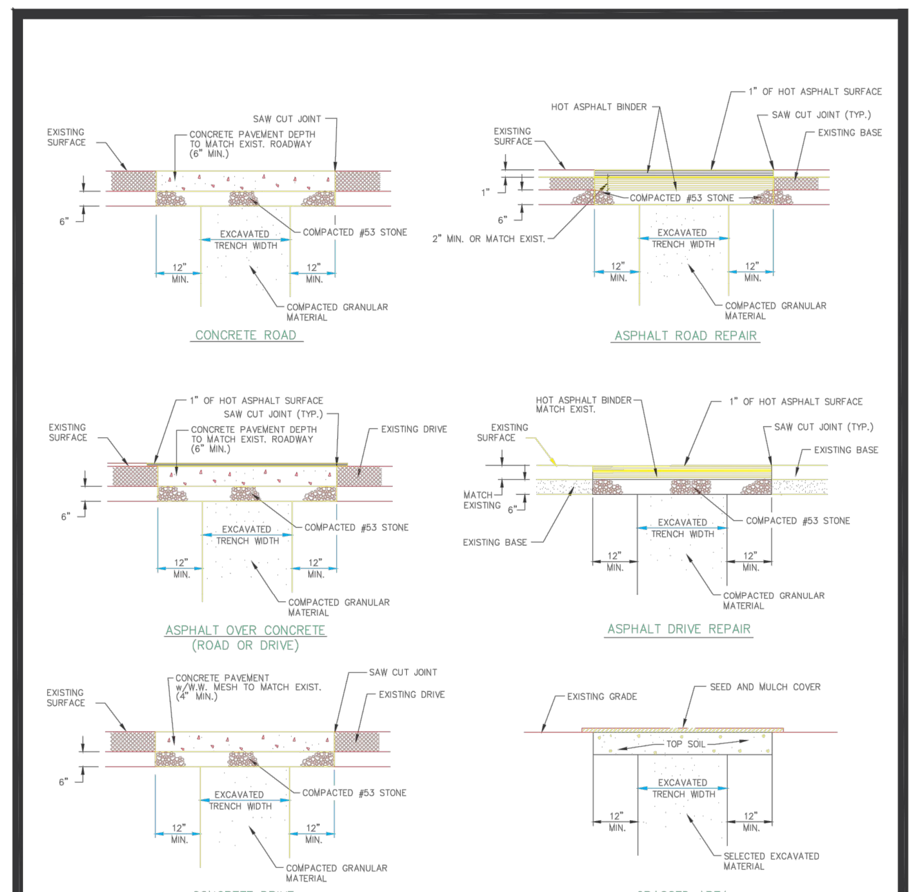
THRUST BLOCKING DETAILS FOR FORCE MAIN

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-7



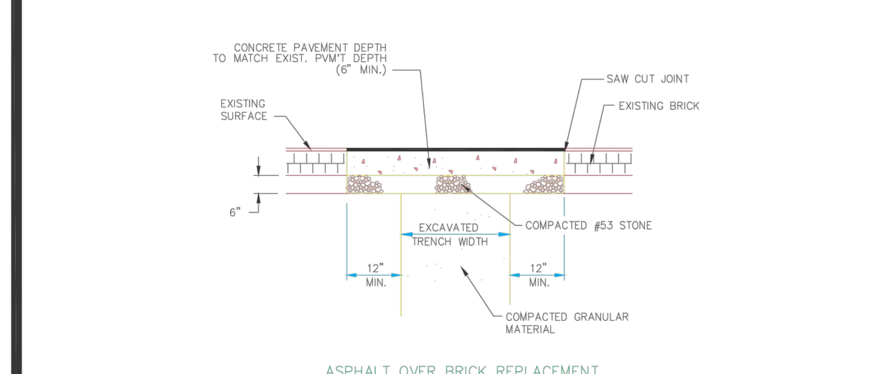
TYPICAL SURFACE REPLACEMENT DETAILS

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 8-1



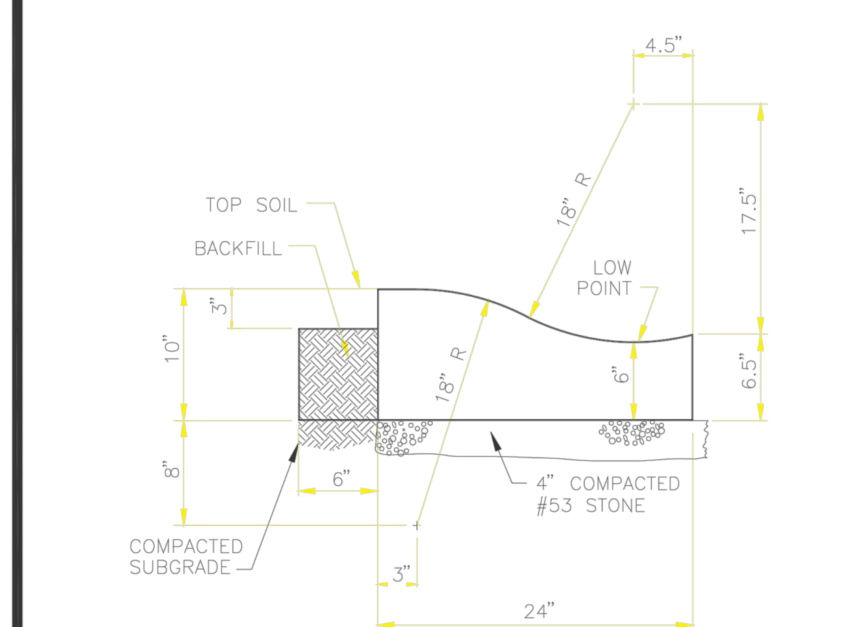
FORCE MAIN DROP INTO EXISTING MANHOLE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 8-2



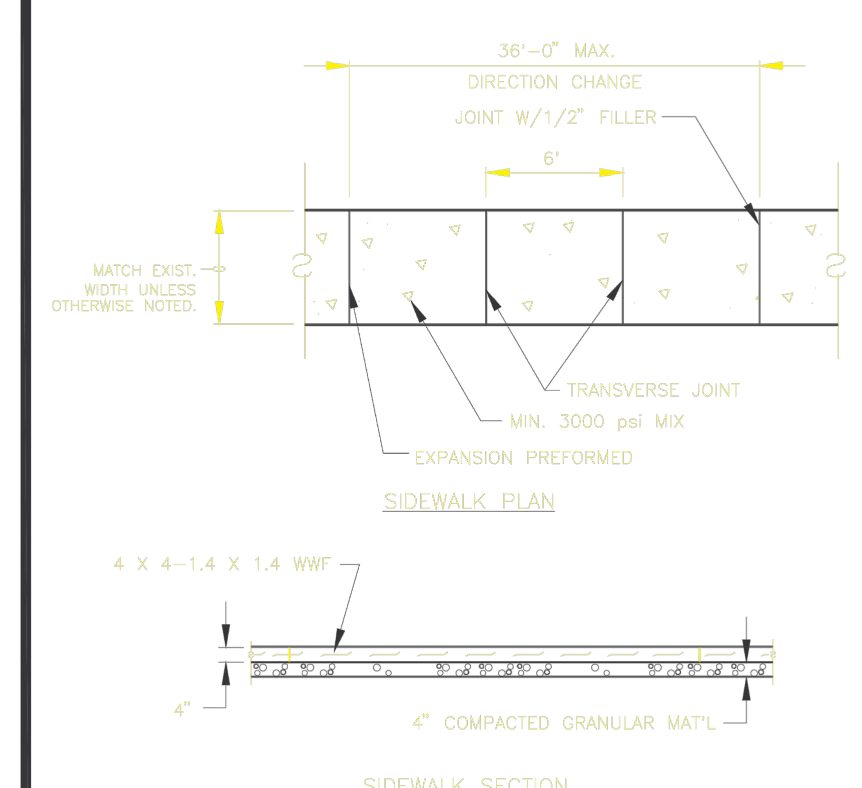
TYPICAL CONCRETE ROLL CURB AND GUTTER

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 8-3



TYPICAL SIDEWALK REPLACEMENT DETAIL

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 8-4

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 317-218-9560
WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
DESIGNED BY: AMM
DRAWN BY: CPP
CHECKED BY: WAB

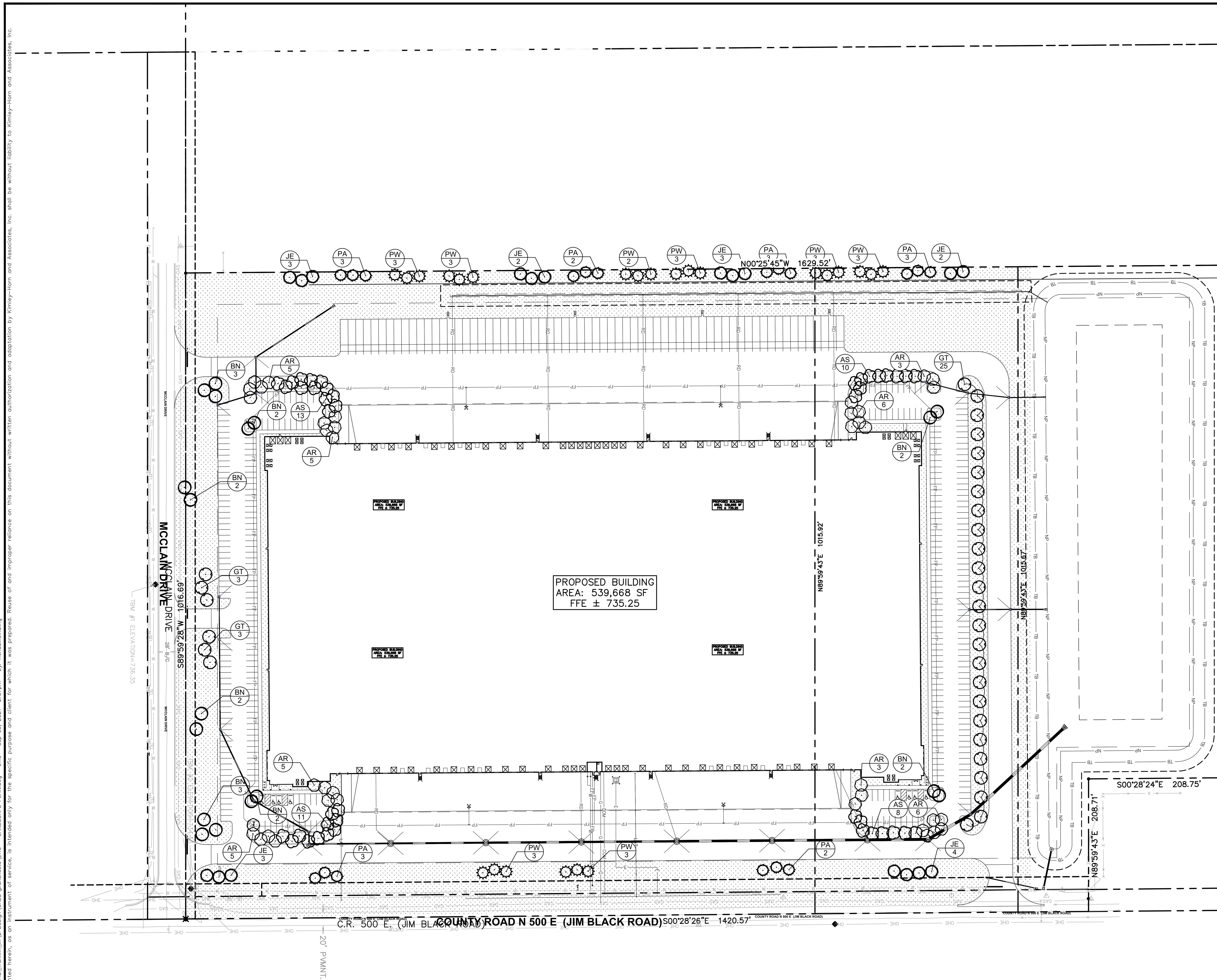
NOT APPROVED FOR CONSTRUCTION
9/9/2021

PETERSON

CONSTRUCTION DETAILS

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
C7.4



Indiana Utilities Protection Service
Call 811 before you dig

NORTH

GRAPHIC SCALE IN FEET
0 40' 80' 160'

EXISTING LEGEND

	STORM INLET	PS	PARKING SPACE
	CURB INLET		H/C PARKING SPACE
Ⓢ	SANITARY SEWER MANHOLE (SSMH)		TRAFFIC SIGNAL POLE
Ⓓ	STORM DRAIN MANHOLE (SDMH)		LIGHT POLE
Ⓣ	TELEPHONE MANHOLE (TMH)		TREE
	RIGHT OF WAY MONUMENT		MAILBOX
	WATER VALVE		MONITOR WELL
	POWER POLE		
	POWER METER		
	TELEPHONE BOX/PEDESTAL		
Ⓔ	ELECTRICAL MANHOLE		

FIB	UNDERGROUND FIBER OPTIC
CBL	UNDERGROUND CABLE
[E]	UNDERGROUND ELECTRIC
	DITCH FLOWLINE
SD	STORM DRAIN
SS	SEWER LINE
GAS	GAS LINE
W	WATER LINE

BENCHMARKS

TEMPORARY SITE BENCHMARKS:
(LOCATIONS SHOWN ON SURVEY)

SBM #1 TOP NORTH-NORTHEAST FLANGE BOLT, ON FIRE HYDRAINT ALONG SOUTH SIDE OF MCCLAIN DRIVE, LOCATED 525' MORE OR LESS WEST OF THE INTERSECTION OF MCCLAIN DRIVE AND C.R. 500 EAST.
ELEVATION=736.35 (NAVD 1988)

SBM #2 TOP NORTH-NORTHWEST FLANGE BOLT ON FIRE HYDRAINT LOCATED IN NORTHWEST QUADRANT OF INTERSECTION OF MCCLAIN DRIVE AND C.R. 500 EAST.
ELEVATION=734.43 (NAVD 1998)

SBM #3 RAILROAD SPIKE IN POWER POLE ALONG EAST SIDE OF C.R. 500 EAST, LOCATED 1,055' MORE OR LESS NORTH OF THE INTERSECTION OF MCCLAIN DRIVE AND C.R. 500 EAST.
ELEVATION=730.48 (NAVD 1988)

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LANDSCAPE PLAN

FRANKLIN INDUSTRIAL
JIM BLACK RD. & MCCLAIN DR., FRANKLIN, IN

ORIGINAL ISSUE: 9/9/2021
KHA PROJECT NO. 170024027
SHEET NUMBER
L1.0

Indiana Utilities Protection Service
Call 811
before you dig

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
AR	38	ACER RUBRUM	RED MAPLE	B & B	2.5" CAL MIN	
AS	42	ACER SACCHARUM	SUGAR MAPLE	B & B	2.5" CAL MIN	
BN	18	BETULA NIGRA	RIVER BIRCH MULTI-TRUNK	B & B		5' HT MIN
GT	31	GLEDITSIA TRIACANTHOS F. INERMIS	THORNLESS HONEY LOCUST	B & B	2.5" CAL MIN	
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT
JE	18	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	B & B		5' HT MIN
PA	18	PICEA ABIES	NORWAY SPRUCE	B & B		5' HT MIN
PW	24	PINUS ALBA	WHITE PINE	B & B		5' HT MIN

ORDINANCE CHART

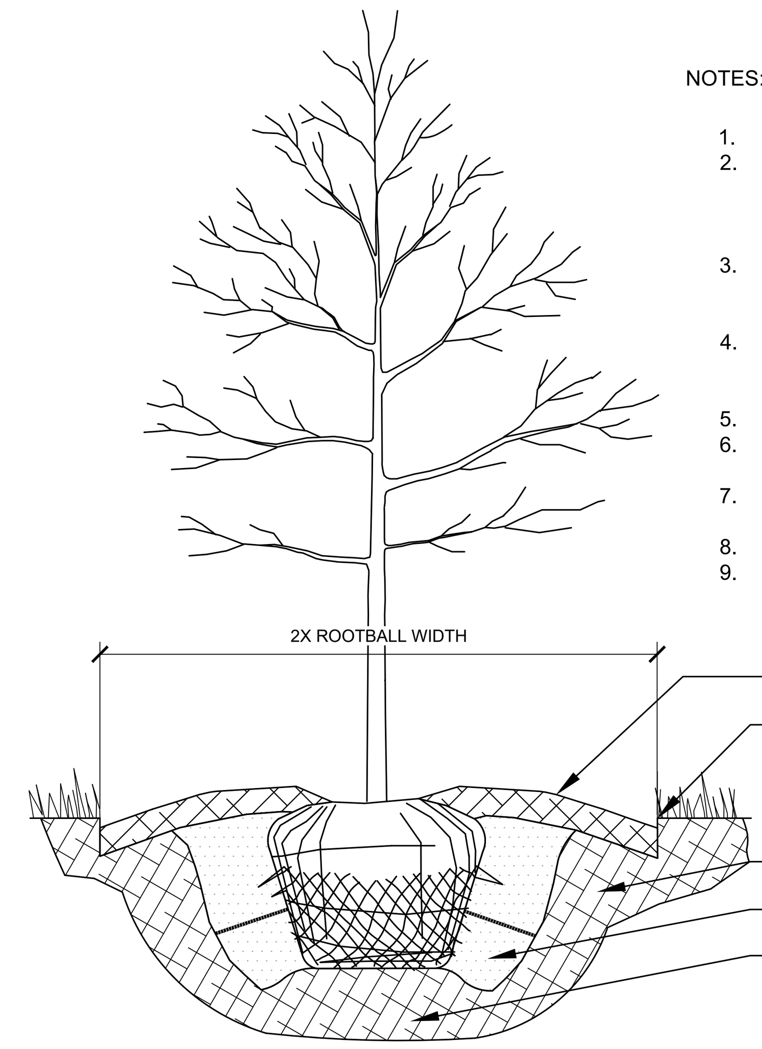
ZONING: IG - INDUSTRIAL, GENERAL		
REQUIREMENT	REQUIRED	PROVIDED
SITE INTERIOR		
• 1 shade or evergreen tree / 5,000 SF of yard area	• 372,384 SF / 5,000 = 74 Trees	• 74 Trees
PARKING LOT INTERIOR		
• 1 shade or evergreen tree / 300 SF • 5% of paved area must be parking islands	• 32,673 SF / 300 = 109 trees	• 109 Trees

SEEDING LEGEND

PERMANENT SEEDING
AMERITURF FRONTRUNNER BLEND TALL FESCUE; APPLY AT A RATE OF 350 LBS/ACRE (8LBS/1000 SQFT)

LANDSCAPE NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION AND PLANTING.
2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
4. ALL NURSERY STOCK SHALL BE WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. DECIDUOUS TREES SHALL BE FREE OF FRESH SCARS. TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS A PART OF THIS CONTRACT.
5. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
6. AMENDED SOIL SHALL BE PROVIDED AND GRADED BY THE GENERAL CONTRACTOR UP TO A 6" DEPTH BELOW FINISHED GRADE IN TURF AREAS AND A 12" DEPTH IN PLANTING AREAS.
7. PLANTING AREA TOPSOIL SHALL BE AMENDED WITH 25% SPHAGNUM PEATMOSS, 5% HUMUS AND 65% PULVERIZED SOIL FOR ALL SHRUB, ORNAMENTAL GRASS, PERENNIAL AND ANNUAL BEDS. AMENDED TURF AREA SOIL SHALL BE STANDARD TOPSOIL.
8. SEED LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED MIXES.
9. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES, SHRUB, PERENNIAL, AND GROUNDCOVER AREAS. TREES PLACED IN AREA COVERED BY TURF SHALL RECEIVE A 4 FT WIDE MAXIMUM TREE RING WITH 3" DEPTH SHREDDED HARDWOOD MULCH. A SPADED BED EDGE SHALL SEPARATE MULCH BEDS FROM TURF OR SEEDED AREAS. A SPADED EDGE IS NOT REQUIRED ALONG CURBED EDGES.
10. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLAN.
11. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
12. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR OTHERWISE NOT EXHIBITING SUPERIOR QUALITY.
13. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED BY LANDSCAPE CONTRACTOR DURING WARRANTY PERIOD IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.

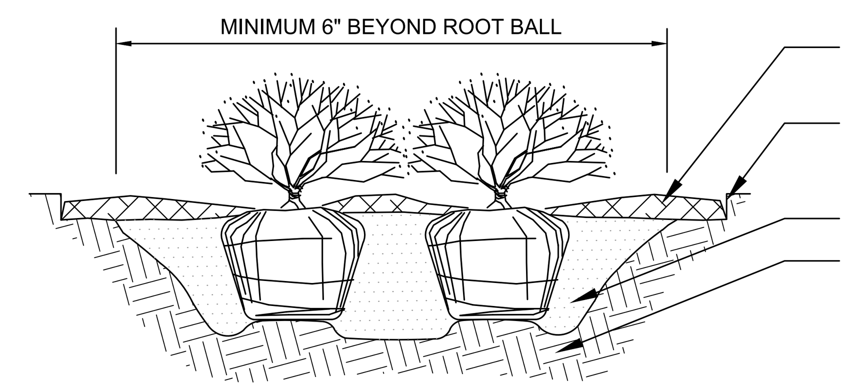


NOTES:

1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. IF LANDSCAPE PLANTINGS ARE WITHIN OR ADJACENT TO AREAS WHERE LIME STABILIZATION OCCURS, CONTRACTOR SHALL FULLY REMOVE SOIL CONTAINING LIME STABILIZATION AND REPLACE WITH HIGH QUALITY PLANTING SOIL.
3. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
4. REMOVE WIRE BASKET AND BURLAP DOWN FOUR TO SIX INCHES BELOW TOP OF ROOT BALL. REMOVE ALL TWINE AND (IF USED), SYNTHETIC MATERIAL. REMOVE OR CORRECT GIRDLING ROOTS.
5. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
6. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY. HIGH CLAY OR POOR SOIL SHALL RECEIVE SOIL AMENDMENT PER LANDSCAPE NOTES.
7. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
8. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE.
9. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.

1 TREE PLANTING

NTS



NOTES:

1. APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL OR CONTAINER ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL (CONTAINER) SHALL BE ONE INCH ABOVE SURROUNDING GRADE. FOR LARGER SHRUBS WITHIN PLANTING BED DIG A DEEPER PIT ONLY FOR THOSE SHRUBS.
3. REMOVE BURLAP FROM TOP HALF THE LENGTH OF ROOTBALL. TWINE AND (IF USED) SYNTHETIC MATERIAL SHALL BE REMOVED FROM PLANTING BED. FOR CONTAINER GROWN SHRUBS, REMOVE CONTAINER AND LOOSEN ROOTS PRIOR TO INSTALLATION.
4. REMOVE OR CORRECT GIRDLING ROOTS.
5. PLUMB AND BACKFILL WITH AMENDED SOIL PER LANDSCAPE NOTES. WATER THOROUGHLY WITHIN TWO HOURS.
6. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR SHRUBS EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.

2 SHRUB PLANTING

NTS

EXISTING LEGEND

STORM INLET
CURB INLET
SANITARY SEWER MANHOLE (SSMH)
STORM DRAIN MANHOLE (SDMH)
TELEPHONE MANHOLE (TMH)
RIGHT OF WAY MONUMENT
WATER VALVE
POWER POLE
POWER METER
TELEPHONE BOX/PEDESTAL
ELECTRICAL MANHOLE
PS PARKING SPACE
H/C PARKING SPACE
TRAFFIC SIGNAL POLE
LIGHT POLE
TREE
MAILBOX
MONITOR WELL

FIB UNDERGROUND FIBER OPTIC
CBL UNDERGROUND CABLE
[E] UNDERGROUND ELECTRIC
DITCH FLOWLINE
SD STORM DRAIN
SS SEWER LINE
GAS GAS LINE
W WATER LINE

BENCHMARKS

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(LOCATIONS SHOWN ON SURVEY)

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No. | REVISIONS | DATE | BY

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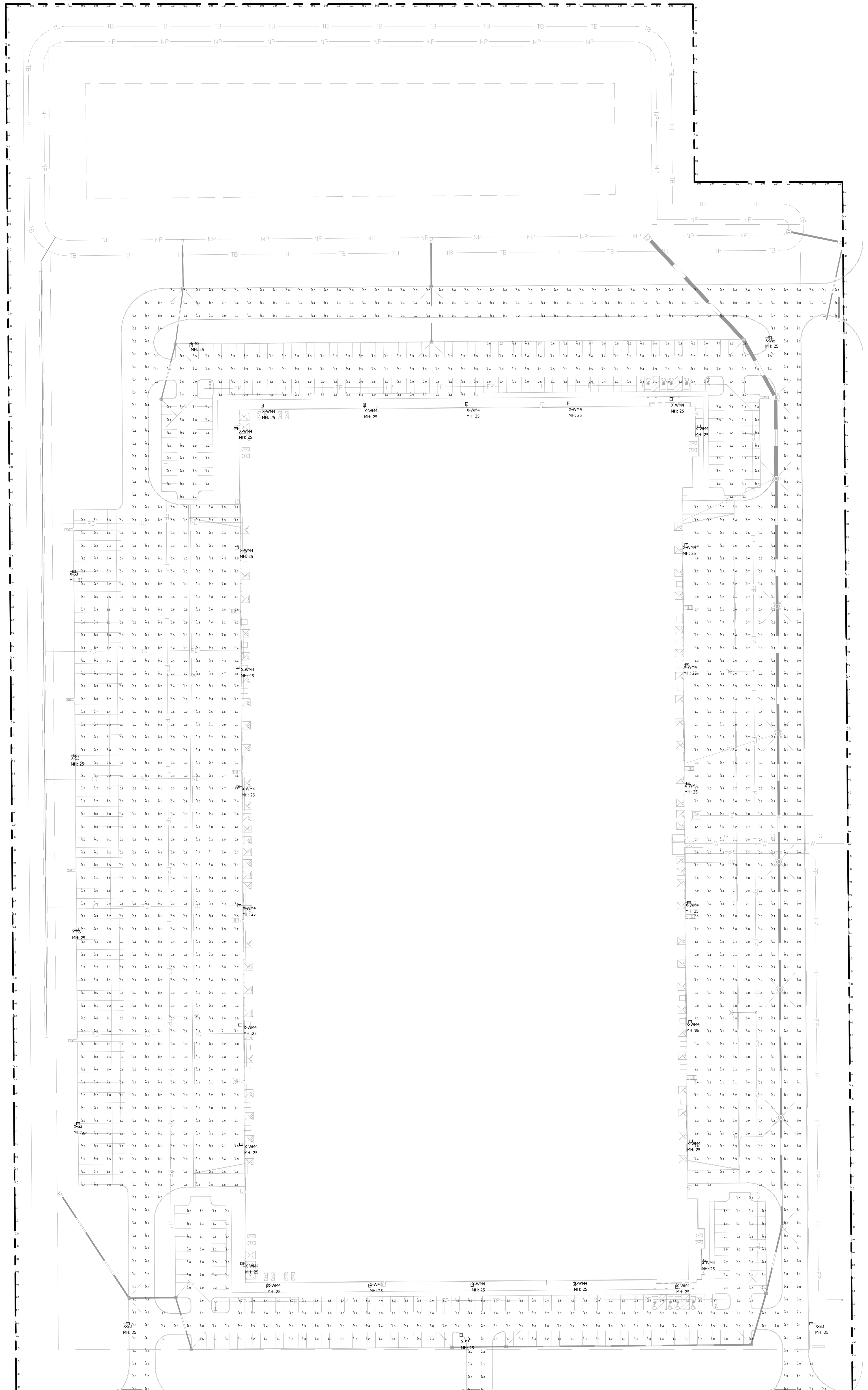

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Lum. Watts	Description
	6	X-S3	SINGLE	25804	0.900	187	MRM-LED-24L-SIL-3-50-70CRI
	3	X-S5	SINGLE	24490	0.900	187	MRM-LED-24L-SIL-5W-50-70CRI
	26	X-WM4	WALL MOUNT	32656	0.900	247	MRM-LED-30L-SIL-FT-50-70CRI

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Car Parking & Drive (Bottom)	Illuminance	Fc	2.29	5.9	0.4	5.73	14.75
Car Parking & Drive (Top)	Illuminance	Fc	2.06	5.5	0.3	6.87	18.33
Property Line	Illuminance	Fc	0.03	0.4	0.0	N.A.	N.A.
Trailer Paved Areas & Drives	Illuminance	Fc	1.14	7.8	0.0	N.A.	N.A.

LIGHTING NOTES:

- Mounting Height = 25'
- Light Loss Factor = 0.90
- Footcandle Values Calculated @ Grade
- Reflectance Values - 80/50/20 (office spaces)
  50/30/20 (warehouse areas)

National Lighting Vendor:

For pricing and technical assistance contact:
Russ Miller of CBMC INC, tel# 317-697-7510,
rmiller@cbmcinc.com

All electrical work shall comply with National, State, and Local codes including and not limited to the National Electric Code, NFPA 101 Life Safety Code, ASHREA and /or IECC Energy Codes.

CBMC · LIGHTING SOLUTIONS

5855 KOPETSKY DR. SUITE G. | INDIANAPOLIS, IN 46217
317-780-8350| WWW.CBMCINC.COM

SEE MORE

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with IESNA approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and LED lumen package, location adjustments, and other variable field conditions.

Contractor to check and verify all dimensions on site before commencing any work shown.

Franklin Industrial

SITE LAYOUT

Scale:	1" = 80'	Drawing No:	LP1
Date:	9/9/21	Project No:	
Drawn By:	SJM	CB19245-SITE	-