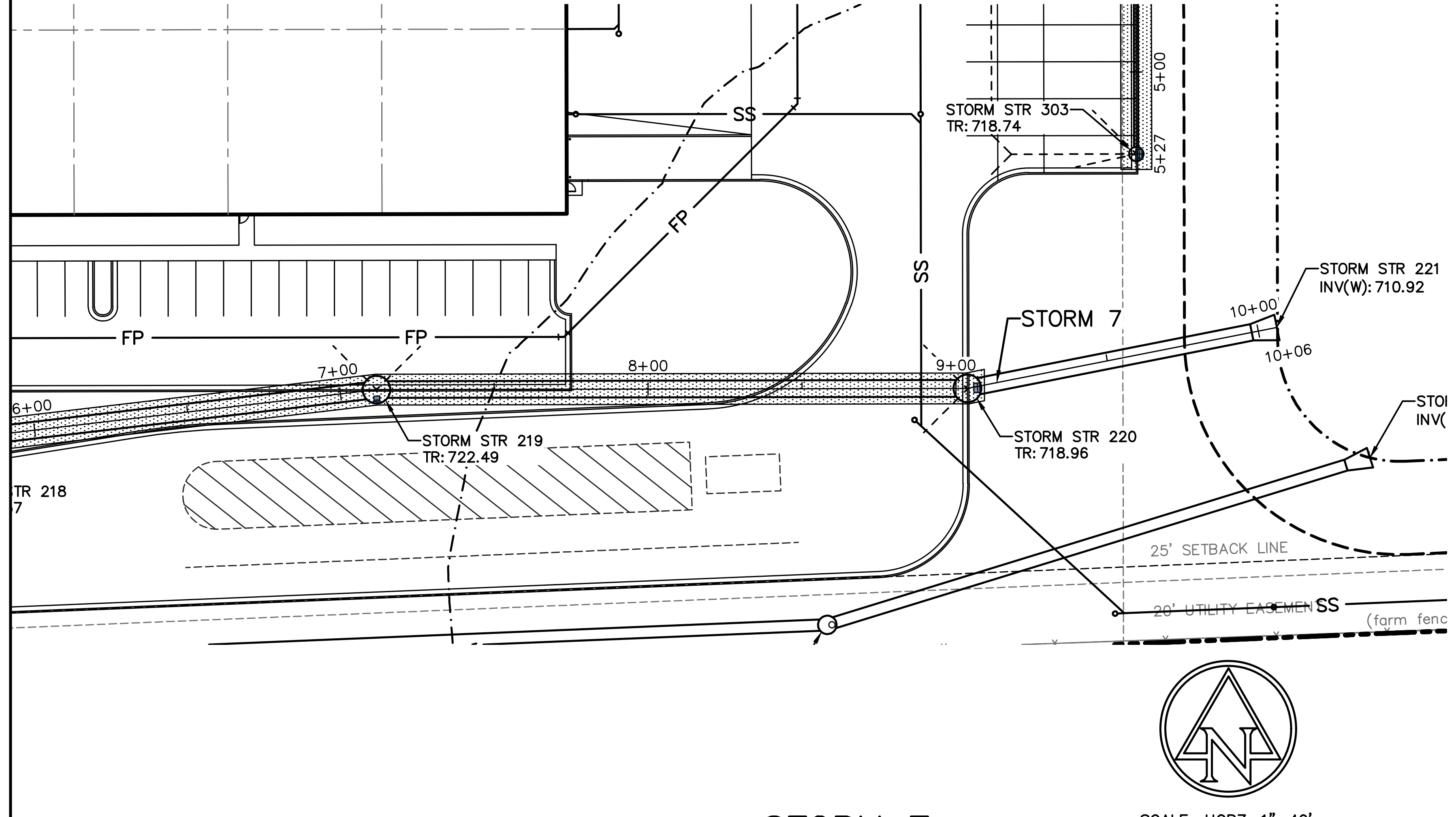
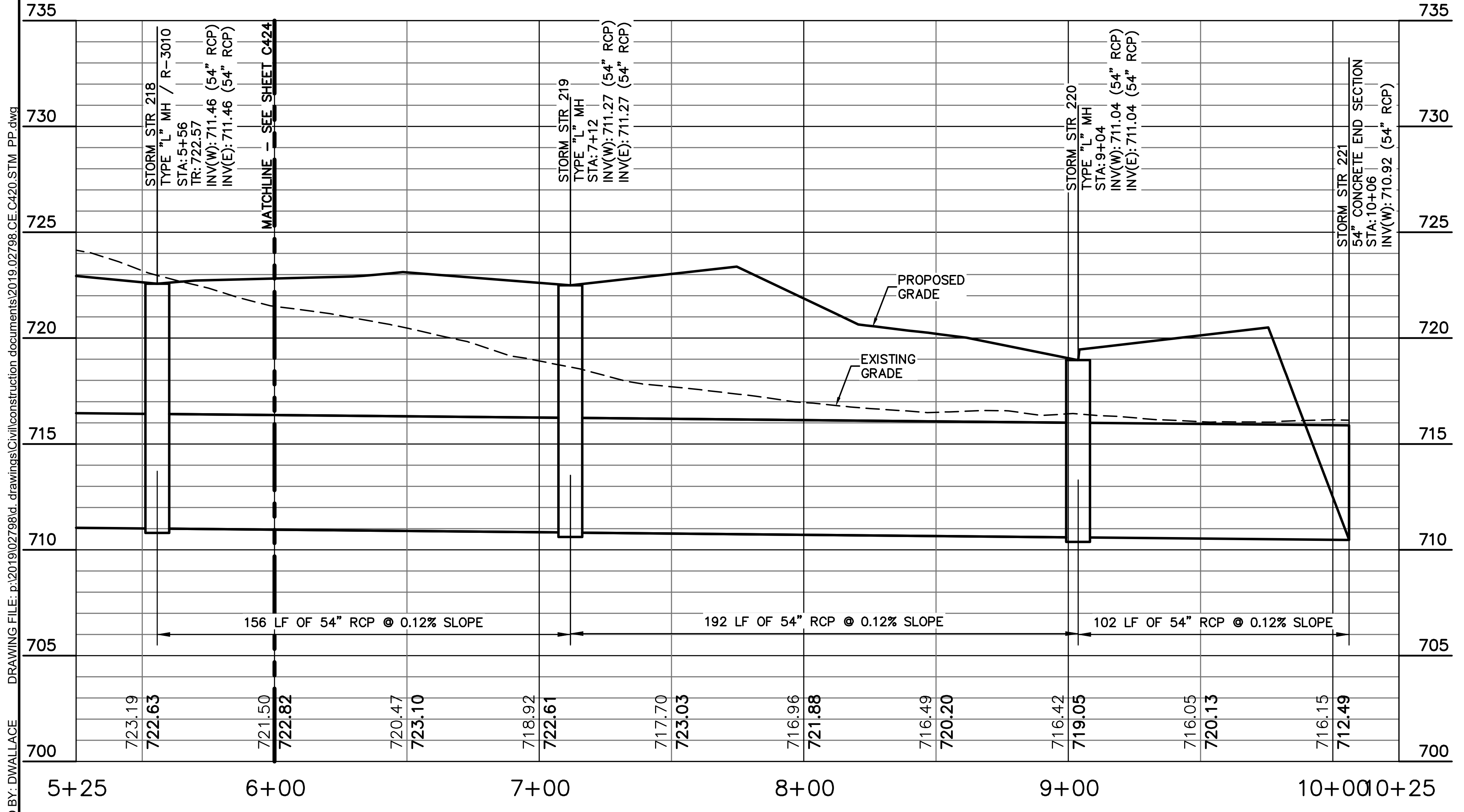
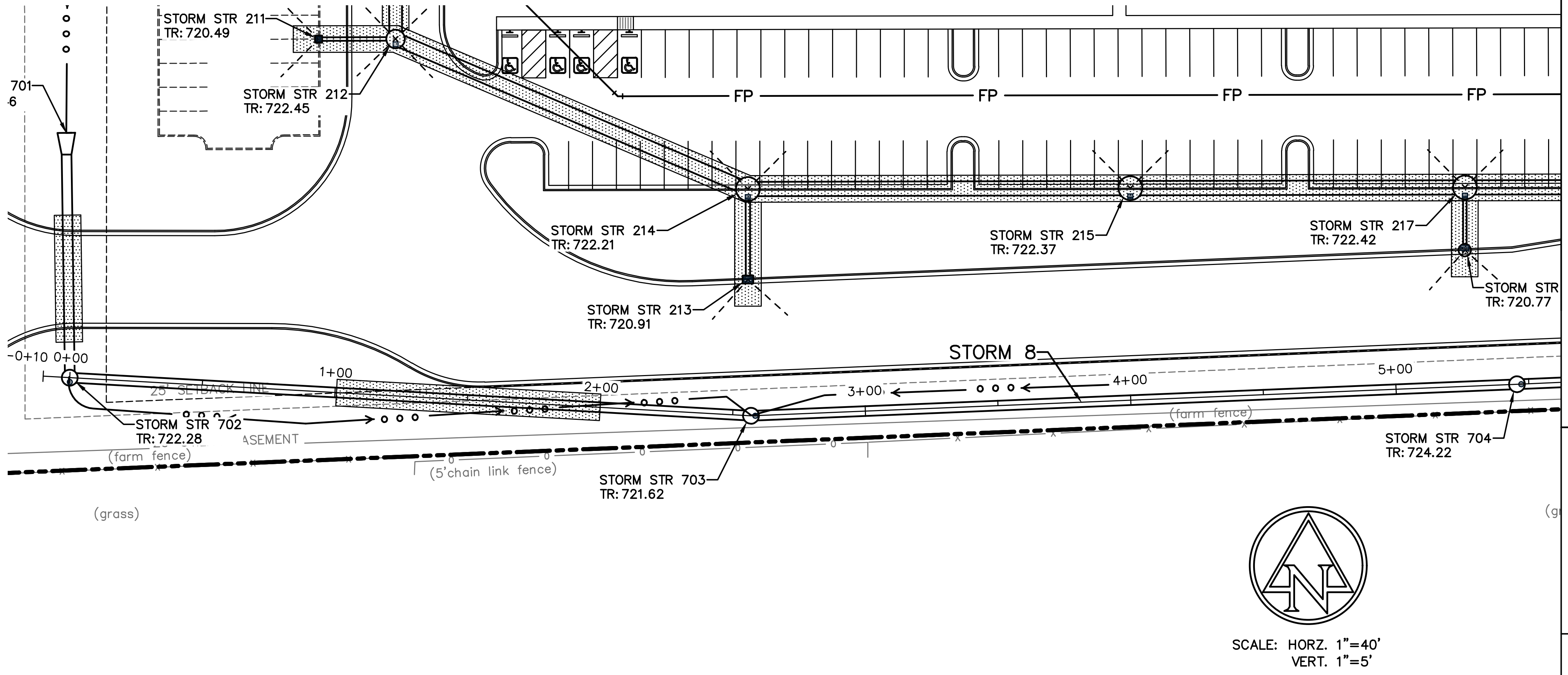

STORM STR 303
TR: 718.74
STORM STR 221
INV(W): 710.92
STORM 7
STORM STR 219
TR: 722.49
STORM STR 220
TR: 718.96
TR 218
SS
FP
FP
FP
6+00
7+00
8+00
9+00
10+00
10+06
5+00
5+27
25' SETBACK LINE
20' UTILITY EASEMENT
(form fenc

STORM 7

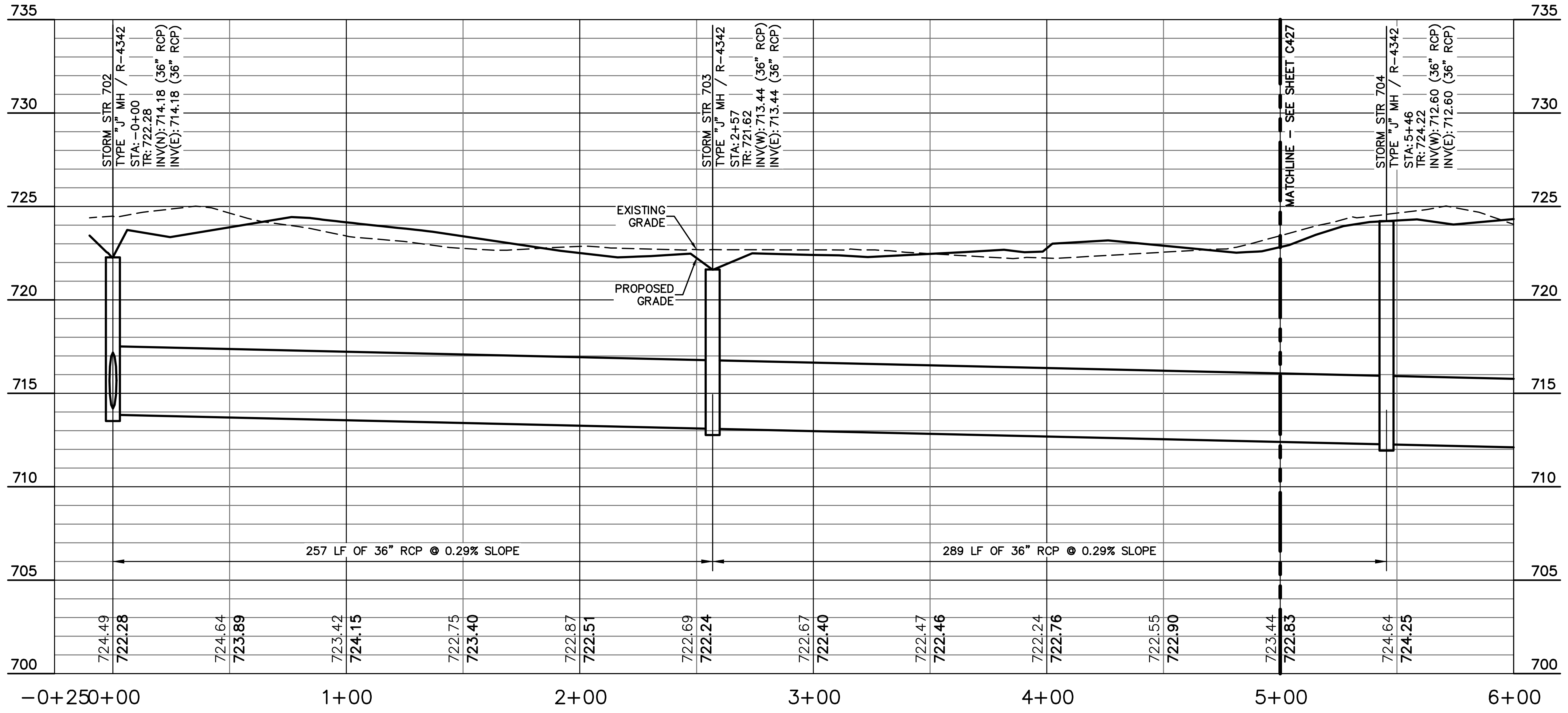
SCALE: HORZ. 1"=40'
VERT. 1"=5'


STORM STR 218
TYPE "L" MH / R-3010
STA: 5+56
TR: 722.57
INV(W): 711.46 (54" RCP)
INV(E): 711.46 (54" RCP)
MATCHLINE – SEE SHEET C424
STORM STR 219
TYPE "L" MH
STA: 7+12
INV(W): 711.27 (54" RCP)
INV(E): 711.27 (54" RCP)
STORM STR 220
TYPE "L" MH
STA: 9+04
INV(W): 711.04 (54" RCP)
INV(E): 711.04 (54" RCP)
STORM STR 221
54" CONCRETE END SECTION
STA: 10+06
INV(W): 710.92 (54" RCP)
PROPOSED GRADE
EXISTING GRADE
156 LF OF 54" RCP @ 0.12% SLOPE
192 LF OF 54" RCP @ 0.12% SLOPE
102 LF OF 54" RCP @ 0.12% SLOPE
735
730
725
720
715
710
705
700
723.19 722.63
721.50 722.82
720.47 723.10
718.92 722.61
717.70 723.03
716.96 721.88
716.49 720.20
716.42 719.05
716.05 720.13
716.15 712.49
5+25
6+00
7+00
8+00
9+00
10+00
10+25


STORM STR 211
TR: 720.49
STORM STR 212
TR: 722.45
701
STORM STR 214
TR: 722.21
STORM STR 213
TR: 720.91
STORM STR 215
TR: 722.37
STORM STR 217
TR: 722.42
STORM STR
TR: 720.77
FP
FP
FP
FP
STORM 8
-0+10
0+00
1+00
2+00
3+00
4+00
5+00
25' SETBACK LINE
STORM STR 702
TR: 722.28
ASEMENT
(farm fence)
(5' chain link fence)
STORM STR 703
TR: 721.62
STORM STR 704
TR: 724.22
(farm fence)
(grass)

STORM 8

SCALE: HORZ. 1"=40'
VERT. 1"=5'


STORM STR 702
TYPE "J" MH / R-4342
STA: -0+00
TR: 722.28
INV(N): 714.18 (36" RCP)
INV(E): 714.18 (36" RCP)
STORM STR 703
TYPE "J" MH / R-4342
STA: 2+57
TR: 721.62
INV(W): 713.44 (36" RCP)
INV(E): 713.44 (36" RCP)
MATCHLINE – SEE SHEET C427
STORM STR 704
TYPE "J" MH / R-4342
STA: 5+46
TR: 724.22
INV(W): 712.60 (36" RCP)
INV(E): 712.60 (36" RCP)
EXISTING GRADE
PROPOSED GRADE
257 LF OF 36" RCP @ 0.29% SLOPE
289 LF OF 36" RCP @ 0.29% SLOPE
735
730
725
720
715
710
705
700
724.49 722.28
724.64 723.89
723.42 724.15
722.75 723.40
722.87 722.51
722.69 722.24
722.67 722.40
722.47 722.46
722.24 722.76
722.55 722.90
723.44 722.83
724.64 724.25
-0+25
0+00
1+00
2+00
3+00
4+00
5+00
6+00

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18–83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X' ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926–1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736–6174
GAS	VECTREN	JON EASTHAM	(765) 287–2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885–2404

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

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TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

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81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLA
REGISTERED
No. PE11800804
STATE OF INDIANA
PROFESSIONAL ENGINEER
APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

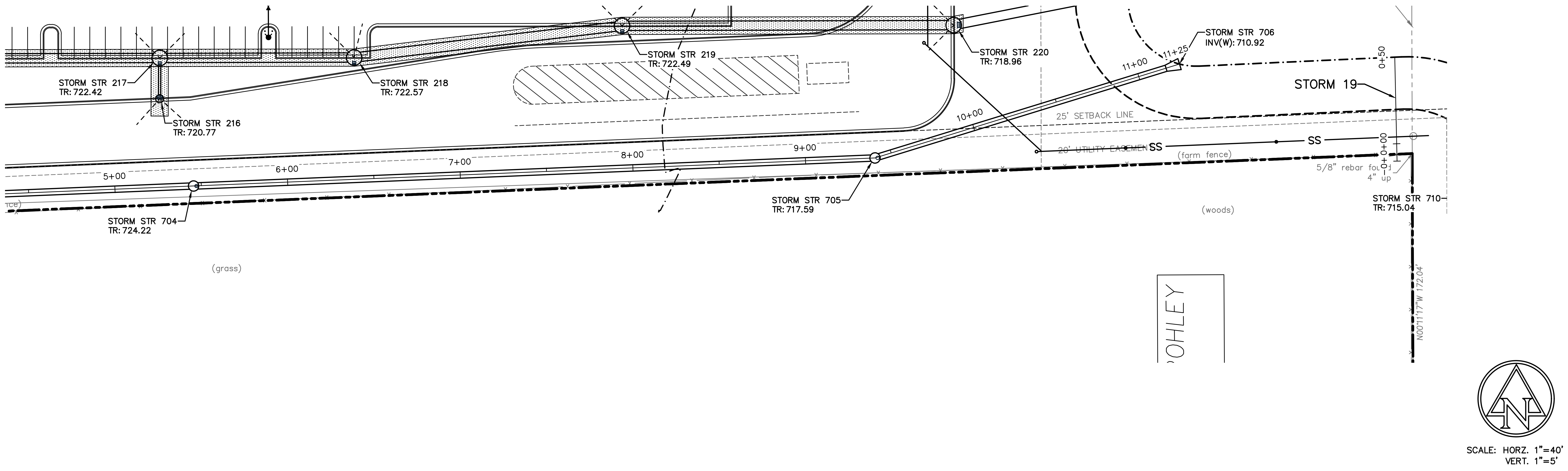
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

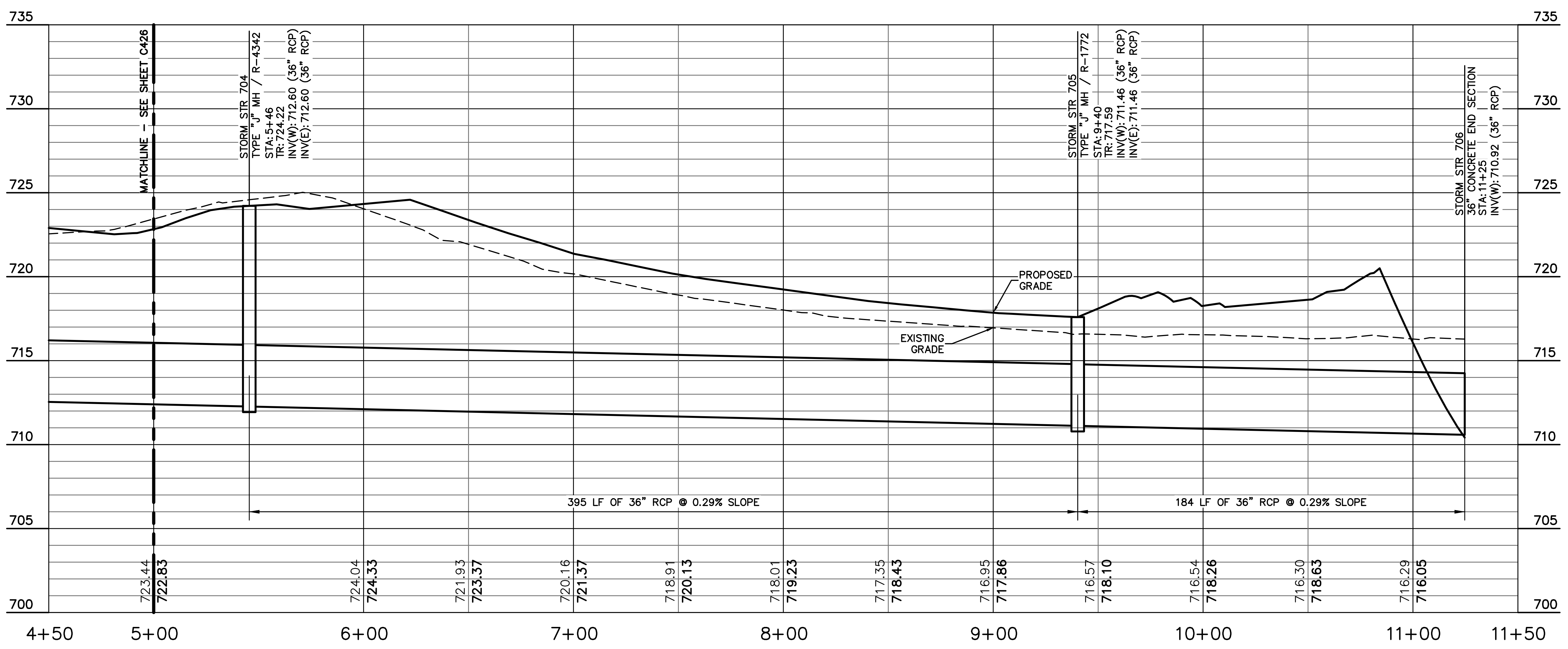
STORM SEWER PLAN AND PROFILE

C425

PLOT DATE: 12/3/2020 11:57 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: DWALLACE
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM PP.dwg


STORM STR 217
TR: 722.42
STORM STR 216
TR: 720.77
STORM STR 218
TR: 722.57
STORM STR 219
TR: 722.49
STORM STR 220
TR: 718.96
STORM STR 706
INV(W): 710.92
STORM 19
STORM STR 704
TR: 724.22
STORM STR 705
TR: 717.59
STORM STR 710
TR: 715.04
5+00
6+00
7+00
8+00
9+00
10+00
11+00
11+25
0+50
0+00
25' SETBACK LINE
20' UTILITY EASEMENT
SS
(farm fence)
5/8" rebar found 4" up
(woods)
(grass)
OHLEY
N00°11'17"W 172.04'
SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 8


735
730
725
720
715
710
705
700
MATCHLINE – SEE SHEET C426
STORM STR 704
TYPE "J" MH / R–4342
STA: 5+46
TR: 724.22
INV(W): 712.60 (36" RCP)
INV(E): 712.60 (36" RCP)
STORM STR 705
TYPE "J" MH / R–1772
STA: 9+40
TR: 717.59
INV(W): 711.46 (36" RCP)
INV(E): 711.46 (36" RCP)
STORM STR 706
36" CONCRETE END SECTION
STA: 11+25
INV(W): 710.92 (36" RCP)
PROPOSED GRADE
EXISTING GRADE
395 LF OF 36" RCP @ 0.29% SLOPE
184 LF OF 36" RCP @ 0.29% SLOPE
723.44
722.83
724.04
724.33
721.93
723.37
720.16
721.37
718.91
720.13
718.01
719.23
717.35
718.43
716.95
717.86
716.57
718.10
716.54
718.26
716.30
718.63
716.29
716.05
4+50
5+00
6+00
7+00
8+00
9+00
10+00
11+00
11+50

EXISTING LEGEND

⊜	BEEHIVE INLET	○	STAND PIPE
⊡	COMBINATION POLE		STUMP
Ⓔ	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN	◈	TEMPORARY BENCH MARK
⊢	GUY WIRE	⊕	TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
⊕	INLET		TELEPHONE PEDESTAL
▭	MAILBOX	⊠	TRANSFORMER
✳	PINE		TREE
●	POST		VENT
□	POWER POLE	Ⓦ	WELL
▨	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18–83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

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CHISELED "X' ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

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GAS	VECTREN	JON EASTHAM	(765) 287–2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885–2404

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CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

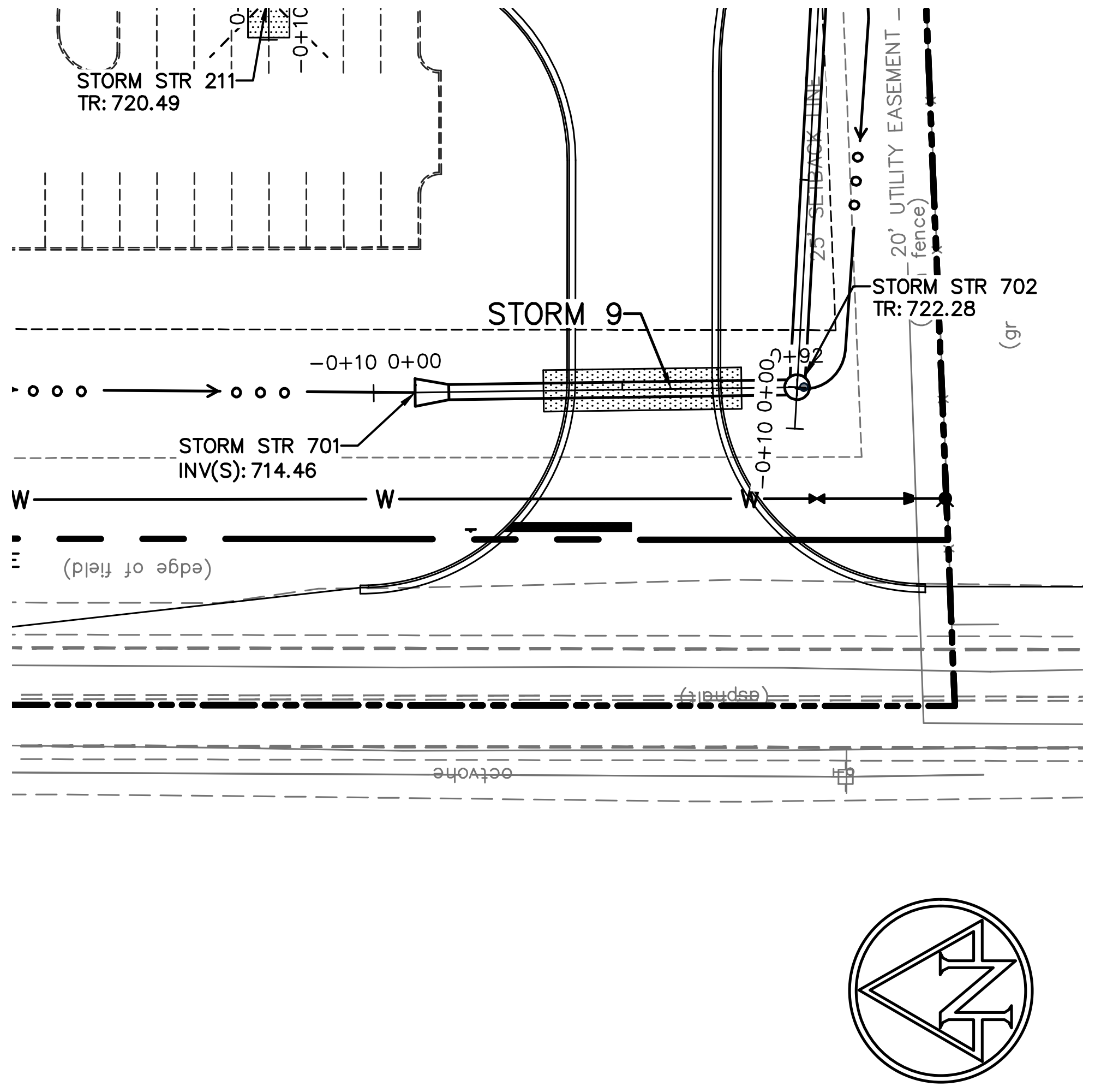
NO.	DESCRIPTION	DATE

Project Number 2019.02798

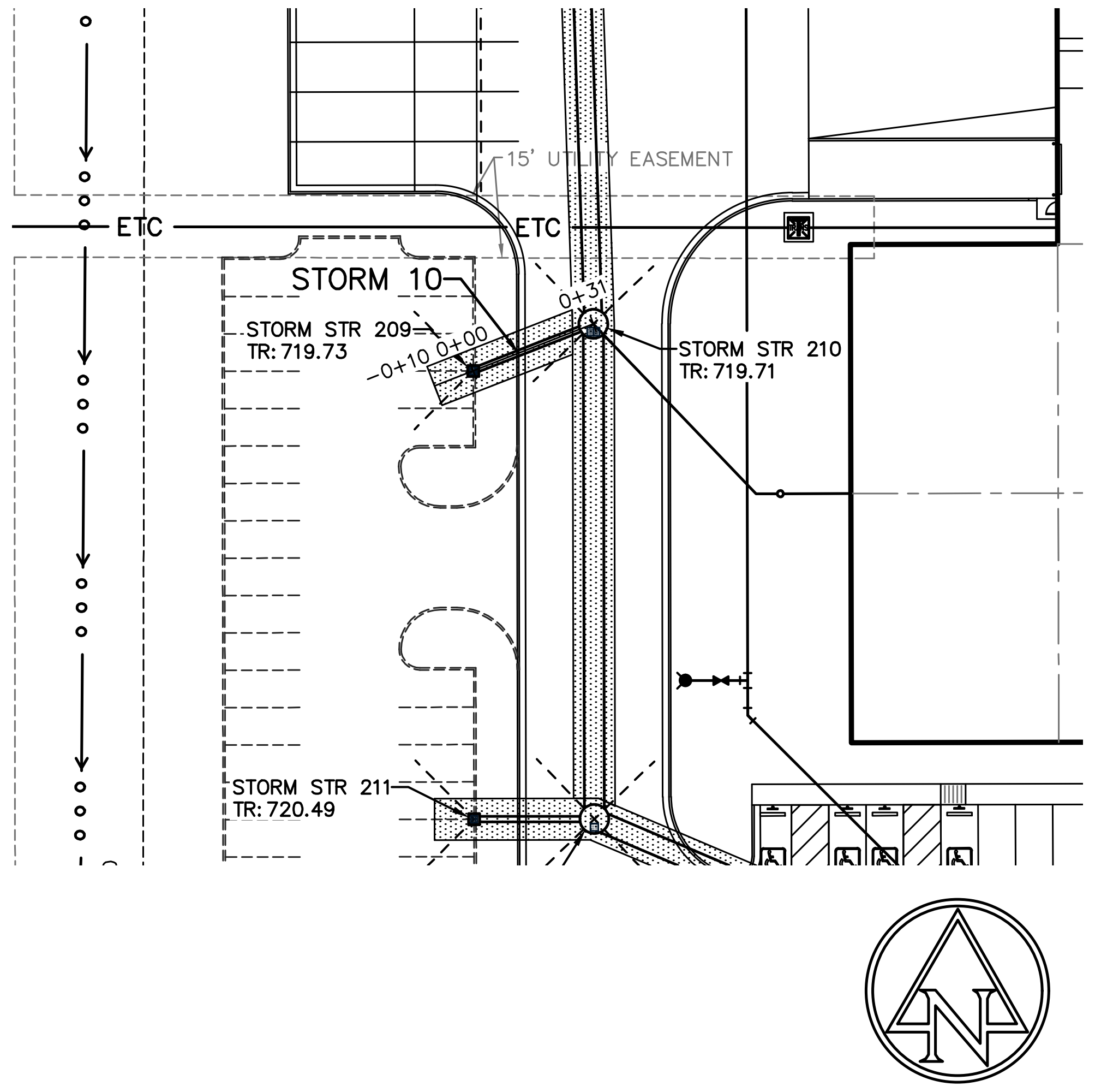
STORM SEWER PLAN AND PROFILE

C426

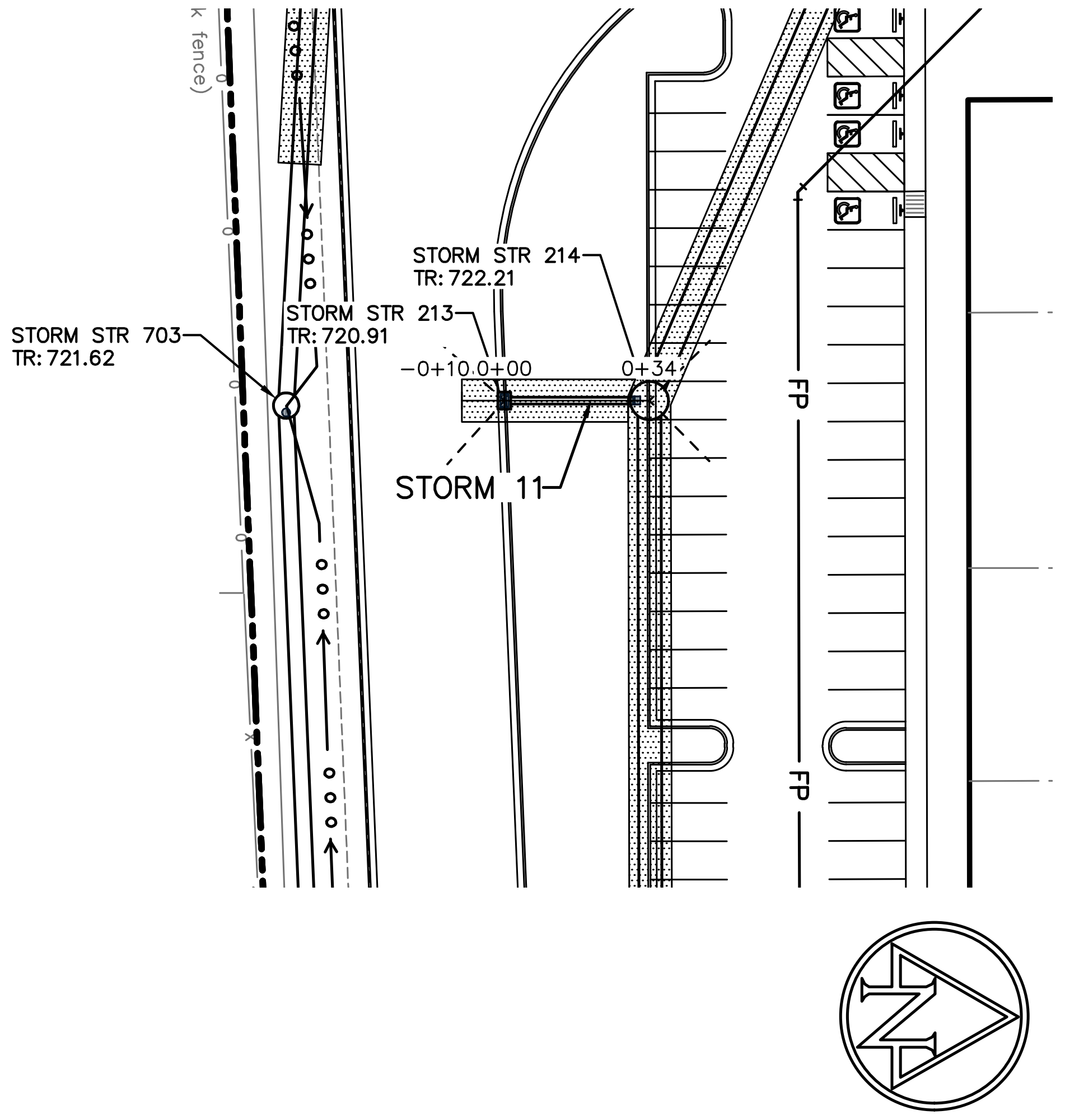
PLOT DATE: 12/3/2020 11:57 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: DWALLACE
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM PP.dwg


STORM STR 211
TR: 720.49
STORM 9
STORM STR 702
TR: 722.28
20' UTILITY EASEMENT
25' SETBACK LINE
fence)
(gr
−0+10 0+00
0+92
−0+10 0+00
STORM STR 701
INV(S): 714.46
W
W
W
(edge of field)
(asphalt)
octvohe

SCALE: HORZ. 1"=40'
VERT. 1"=5'

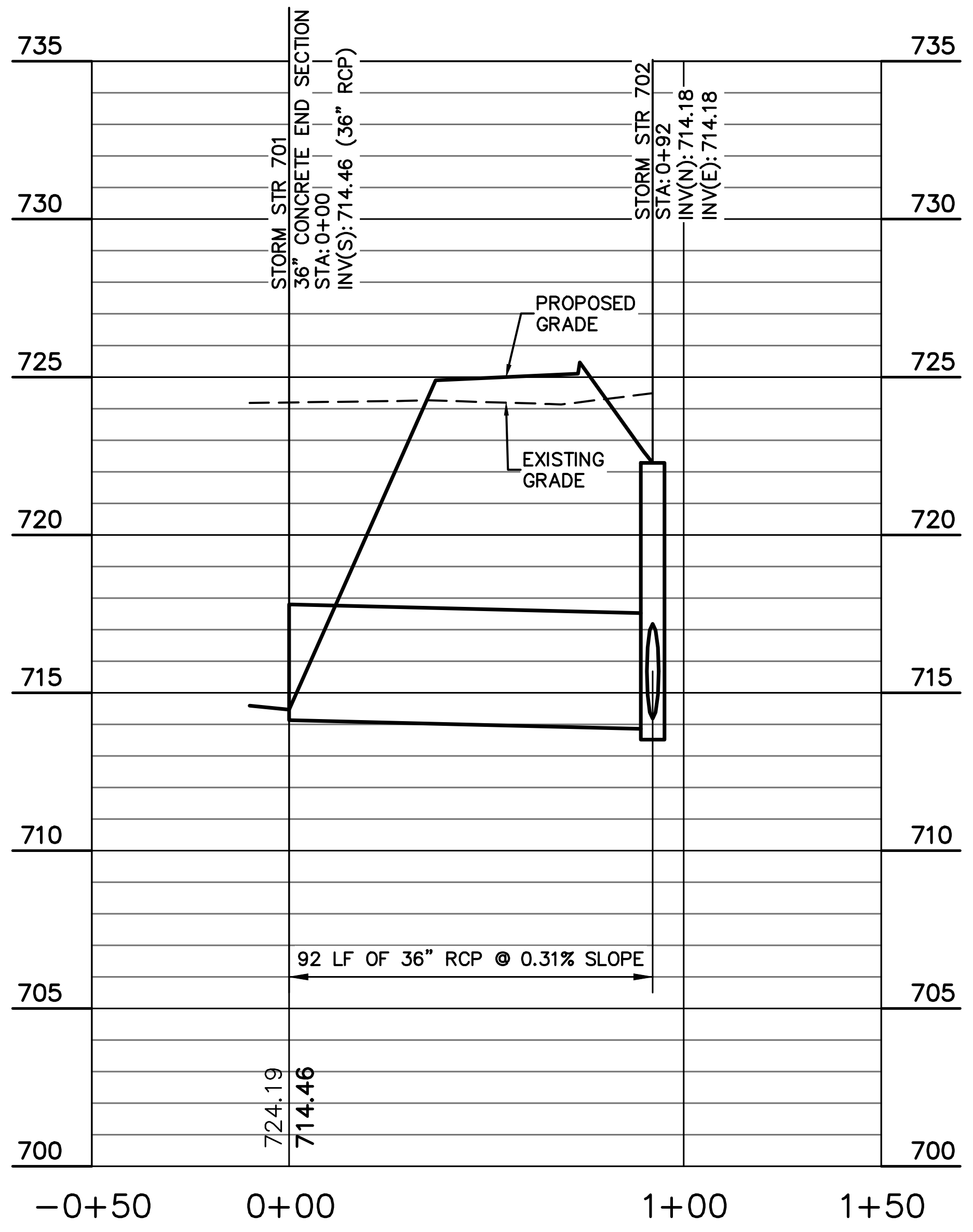

15' UTILITY EASEMENT
ETC
ETC
STORM 10
STORM STR 209
TR: 719.73
−0+10 0+00
0+31
STORM STR 210
TR: 719.71
STORM STR 211
TR: 720.49

SCALE: HORZ. 1"=40'
VERT. 1"=5'

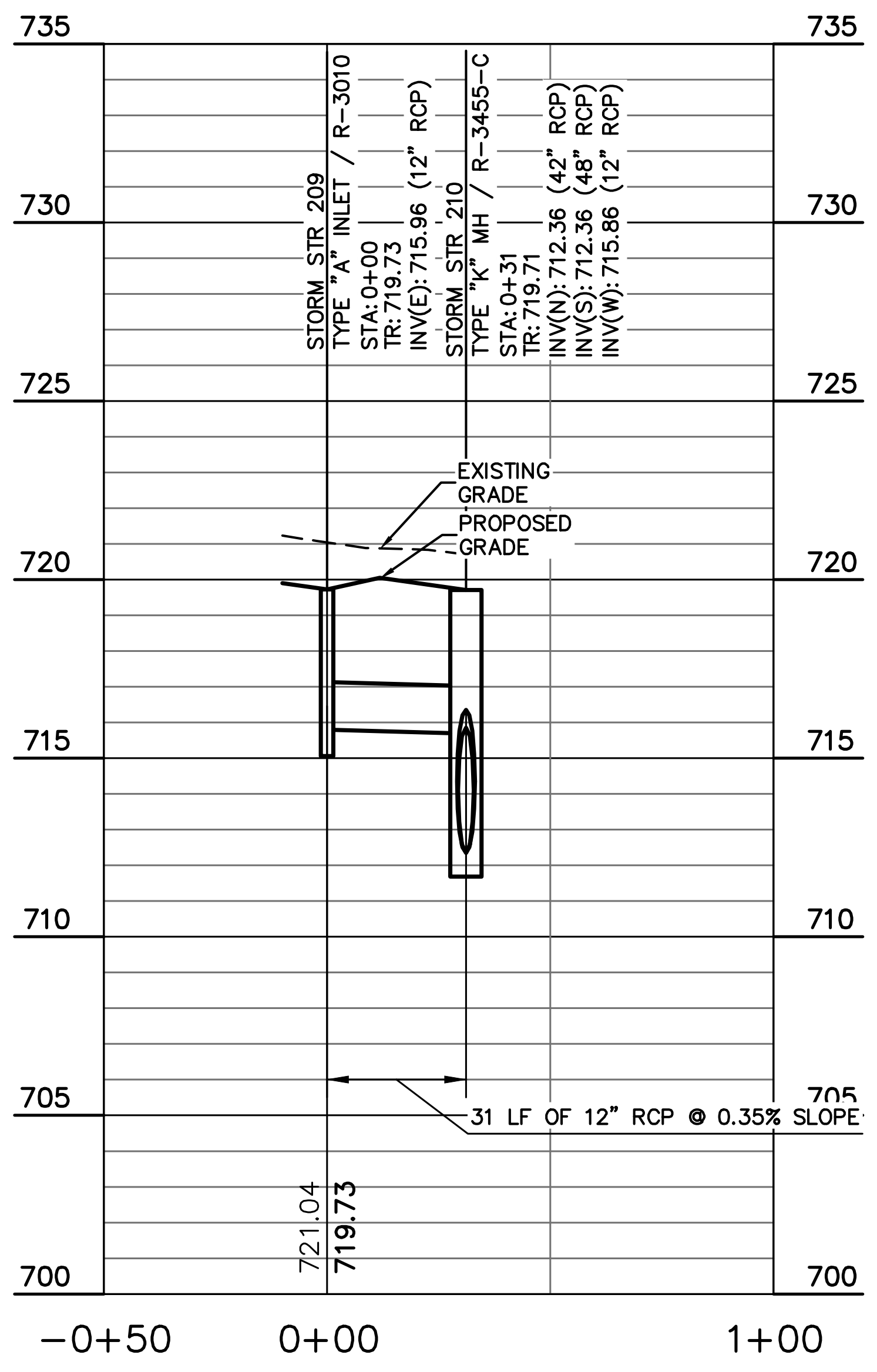

fence)
STORM STR 703
TR: 721.62
STORM STR 213
TR: 720.91
STORM STR 214
TR: 722.21
−0+10 0+00
0+34
STORM 11
FP
FP

SCALE: HORZ. 1"=40'
VERT. 1"=5'

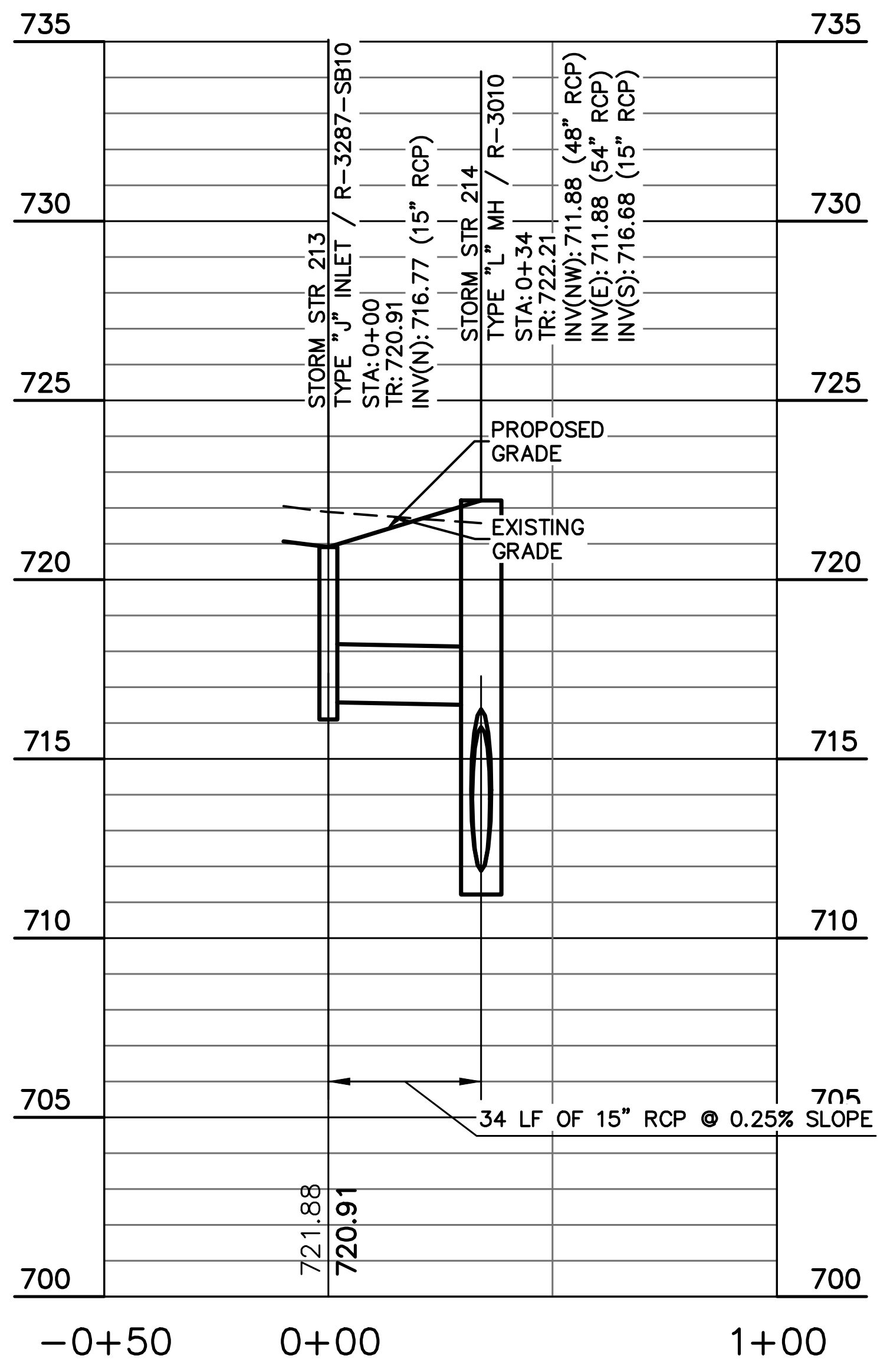
STORM 9


735
730
725
720
715
710
705
700
STORM STR 701
36" CONCRETE END SECTION
STA: 0+00
INV(S): 714.46 (36" RCP)
STORM STR 702
STA: 0+92
INV(N): 714.18
INV(E): 714.18
PROPOSED GRADE
EXISTING GRADE
92 LF OF 36" RCP @ 0.31% SLOPE
724.19
714.46
−0+50
0+00
1+00
1+50

STORM 10


735
730
725
720
715
710
705
700
STORM STR 209
TYPE "A" INLET / R−3010
STA: 0+00
TR: 719.73
INV(E): 715.96 (12" RCP)
STORM STR 210
TYPE "K" MH / R−3455−C
STA: 0+31
TR: 719.71
INV(N): 712.36 (42" RCP)
INV(S): 712.36 (48" RCP)
INV(W): 715.86 (12" RCP)
EXISTING GRADE
PROPOSED GRADE
31 LF OF 12" RCP @ 0.35% SLOPE
721.04
719.73
−0+50
0+00
1+00

STORM 11


735
730
725
720
715
710
705
700
STORM STR 213
TYPE "J" INLET / R−3287−SB10
STA: 0+00
TR: 720.91
INV(N): 716.77 (15" RCP)
STORM STR 214
TYPE "L" MH / R−3010
STA: 0+34
TR: 722.21
INV(NW): 711.88 (48" RCP)
INV(E): 711.88 (54" RCP)
INV(S): 716.68 (15" RCP)
PROPOSED GRADE
EXISTING GRADE
34 LF OF 15" RCP @ 0.25% SLOPE
721.88
720.91
−0+50
0+00
1+00

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18−83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X' ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

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3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926−1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736−6174
GAS	VECTREN	JON EASTHAM	(765) 287−2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736−3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736−3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885−2404

!! CAUTION !!

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Suite 105
Indianapolis, IN 46256

317.567.6100

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9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

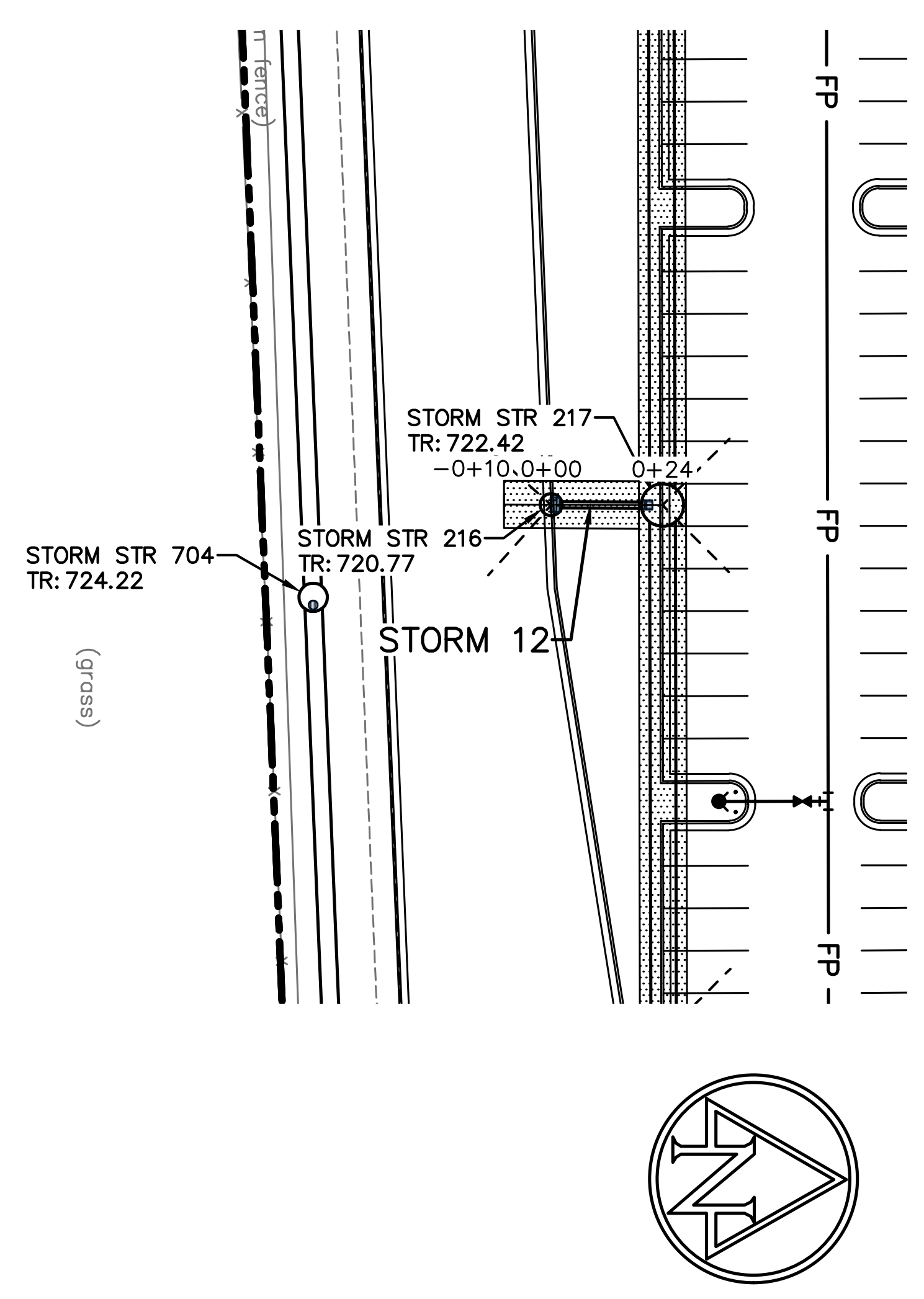
NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

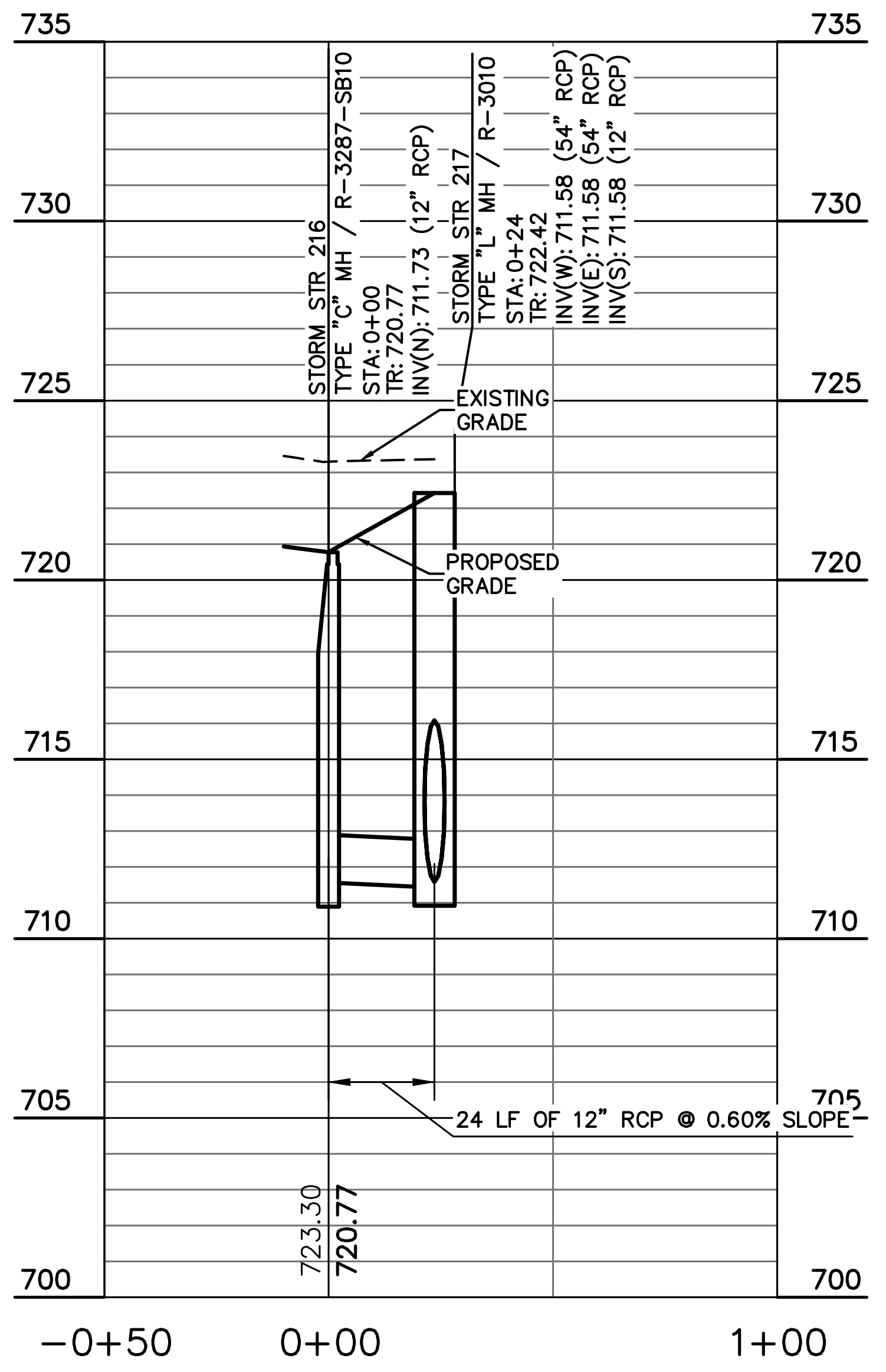
C427

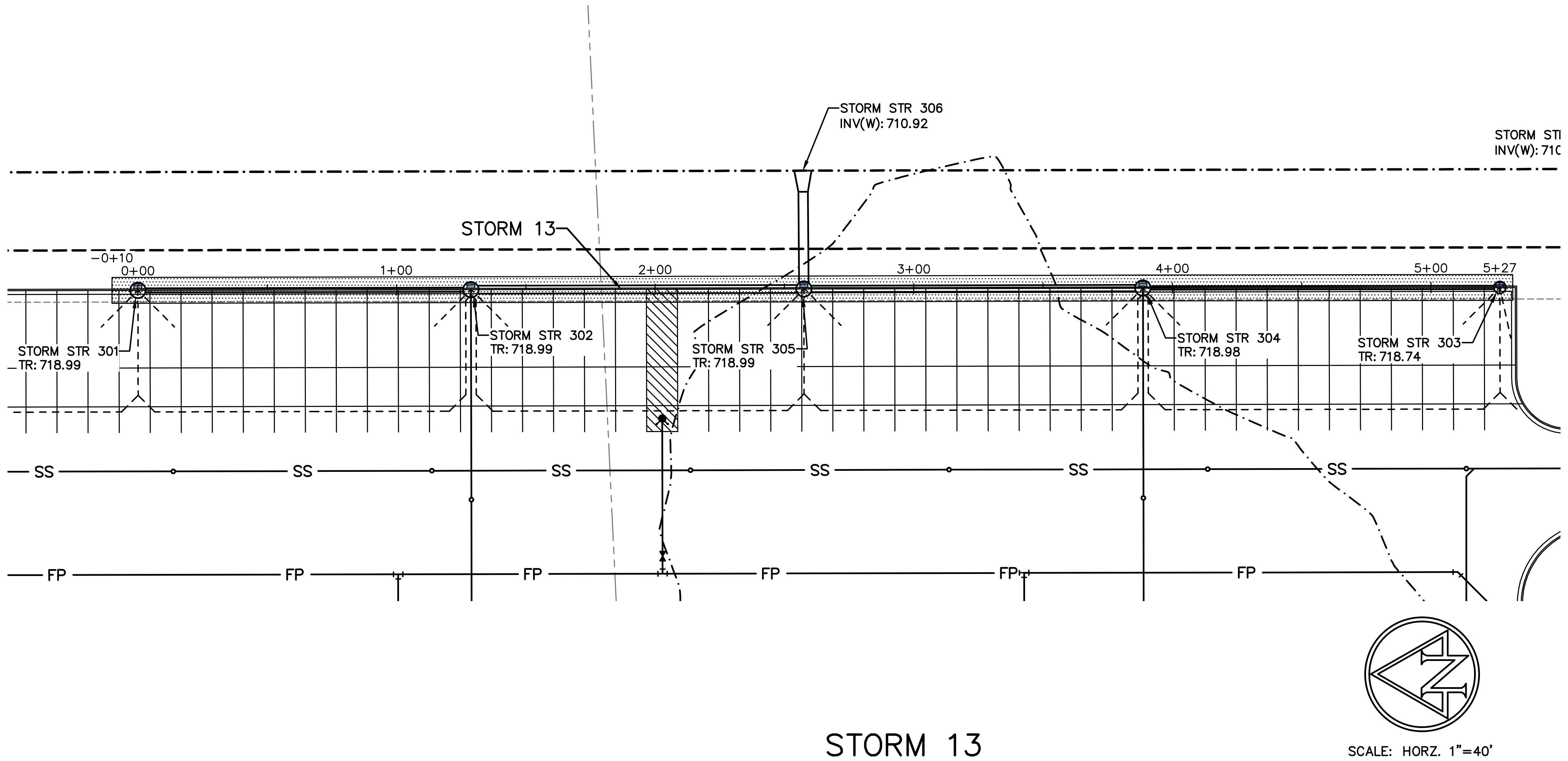
PLOT DATE: 12/3/2020 11:58 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: DWALLACE
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM PP.dwg


(fence)
STORM STR 217
TR: 722.42
−0+10
0+00
0+24
STORM STR 704
TR: 724.22
STORM STR 216
TR: 720.77
STORM 12
(grass)
FP

SCALE: HORZ. 1"=40'
VERT. 1"=5'

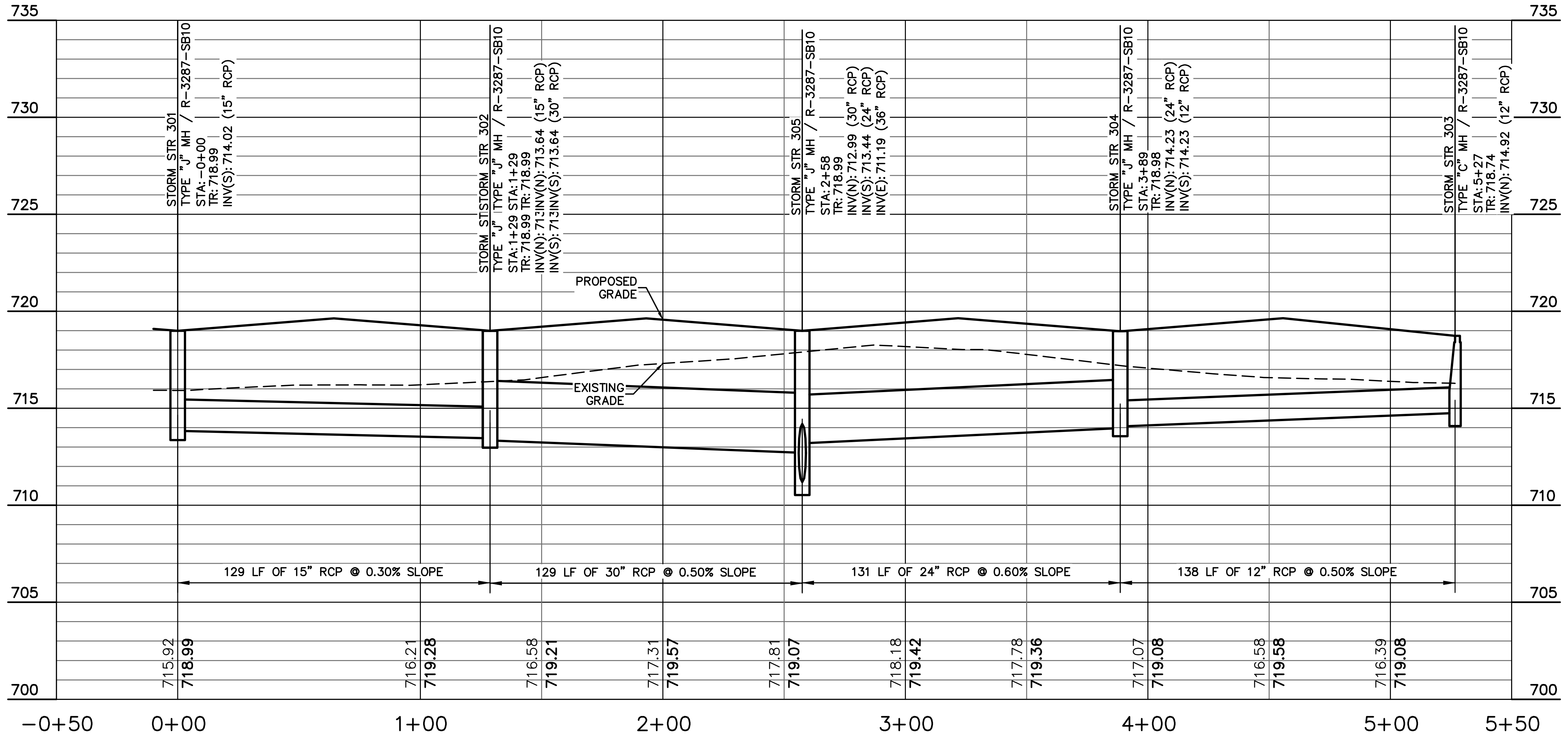
STORM 12


735
730
725
720
715
710
705
700
STORM STR 216
TYPE "C" MH / R−3287−SB10
STA: 0+00
TR: 720.77
INV(N): 711.73 (12" RCP)
STORM STR 217
TYPE "L" MH / R−3010
STA: 0+24
TR: 722.42
INV(W): 711.58 (54" RCP)
INV(E): 711.58 (54" RCP)
INV(S): 711.58 (12" RCP)
EXISTING GRADE
PROPOSED GRADE
24 LF OF 12" RCP @ 0.60% SLOPE
723.30
720.77
−0+50
0+00
1+00


STORM STR 306
INV(W): 710.92
STORM STR
INV(W): 710
STORM 13
−0+10
0+00
1+00
2+00
3+00
4+00
5+00
5+27
STORM STR 301
TR: 718.99
STORM STR 302
TR: 718.99
STORM STR 305
TR: 718.99
STORM STR 304
TR: 718.98
STORM STR 303
TR: 718.74
SS
FP

STORM 13

SCALE: HORZ. 1"=40'
VERT. 1"=5'


735
730
725
720
715
710
705
700
STORM STR 301
TYPE "J" MH / R−3287−SB10
STA: −0+00
TR: 718.99
INV(S): 714.02 (15" RCP)
STORM STSTORM STR 302
TYPE "J" ITYPE "J" MH / R−3287−SB10
STA: 1+29 STA: 1+29
TR: 718.99 TR: 718.99
INV(N): 713INV(N): 713.64 (15" RCP)
INV(S): 713INV(S): 713.64 (30" RCP)
STORM STR 305
TYPE "J" MH / R−3287−SB10
STA: 2+58
TR: 718.99
INV(N): 712.99 (30" RCP)
INV(S): 713.44 (24" RCP)
INV(E): 711.19 (36" RCP)
STORM STR 304
TYPE "J" MH / R−3287−SB10
STA: 3+89
TR: 718.98
INV(N): 714.23 (24" RCP)
INV(S): 714.23 (12" RCP)
STORM STR 303
TYPE "C" MH / R−3287−SB10
STA: 5+27
TR: 718.74
INV(N): 714.92 (12" RCP)
PROPOSED GRADE
EXISTING GRADE
129 LF OF 15" RCP @ 0.30% SLOPE
129 LF OF 30" RCP @ 0.50% SLOPE
131 LF OF 24" RCP @ 0.60% SLOPE
138 LF OF 12" RCP @ 0.50% SLOPE
715.92
718.99
716.21
719.28
716.58
719.21
717.31
719.57
717.81
719.07
718.18
719.42
717.78
719.36
717.07
719.08
716.58
719.58
716.39
719.08
−0+50
0+00
1+00
2+00
3+00
4+00
5+00
5+50

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18−83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X' ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

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STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736−3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885−2404

!! CAUTION !!

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JUSTIN ERIC OLASH
PE11800804
NOT FOR CONSTRUCTION
APPROVAL PENDING

Justin Olash

CERTIFIED BY

ISSUANCE INDEX
DATE:
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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

C428

PLOT DATE: 12/3/2020 1:30 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: MIRVING
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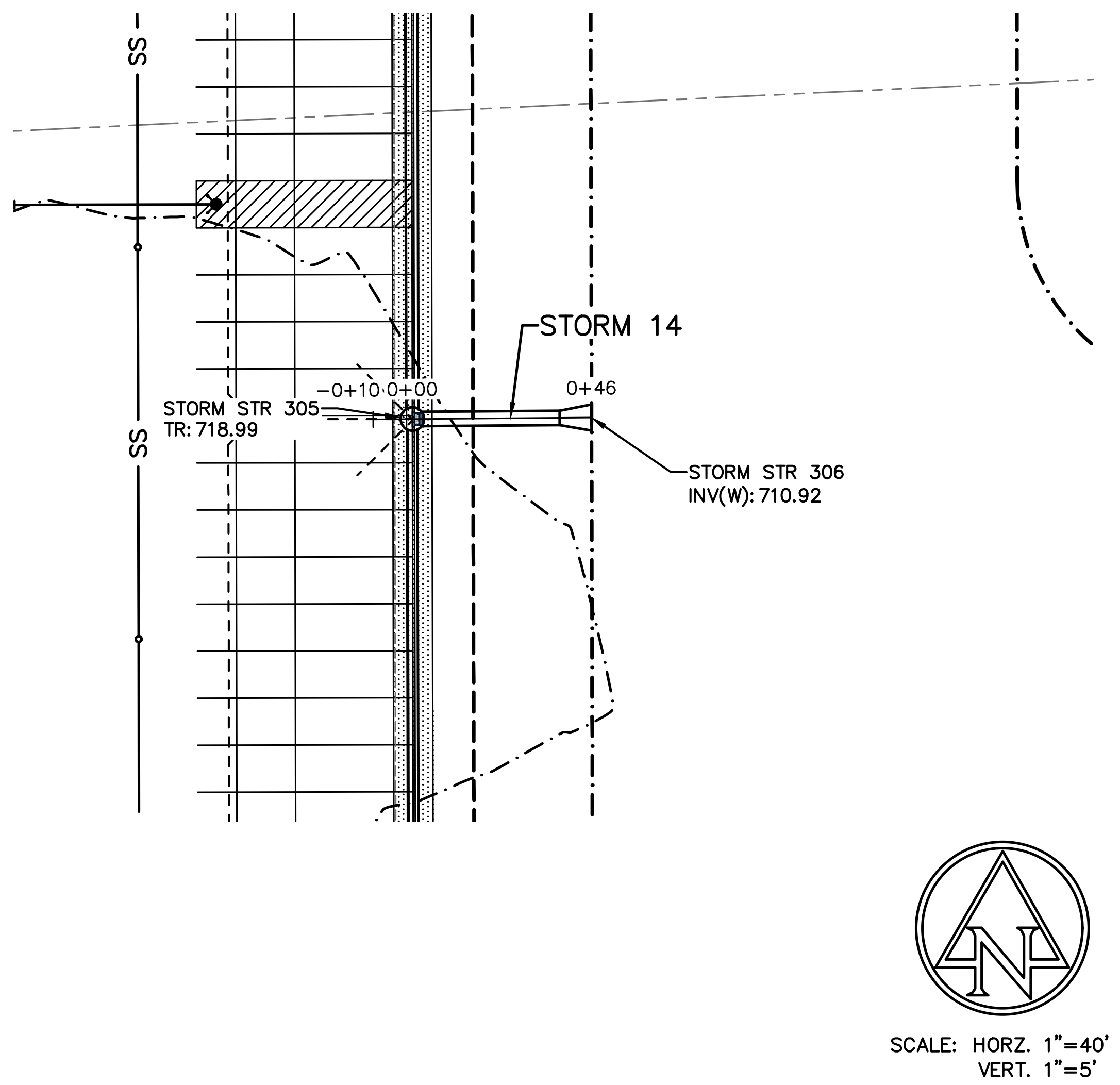
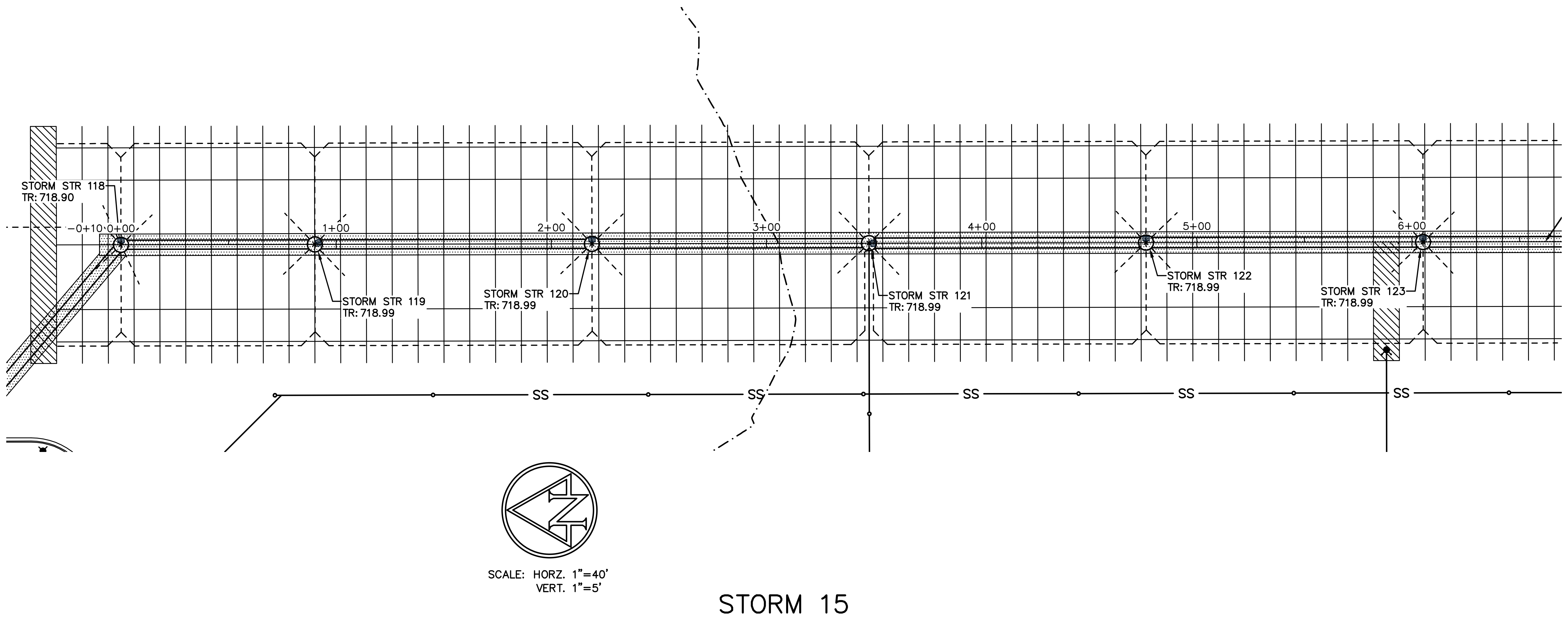
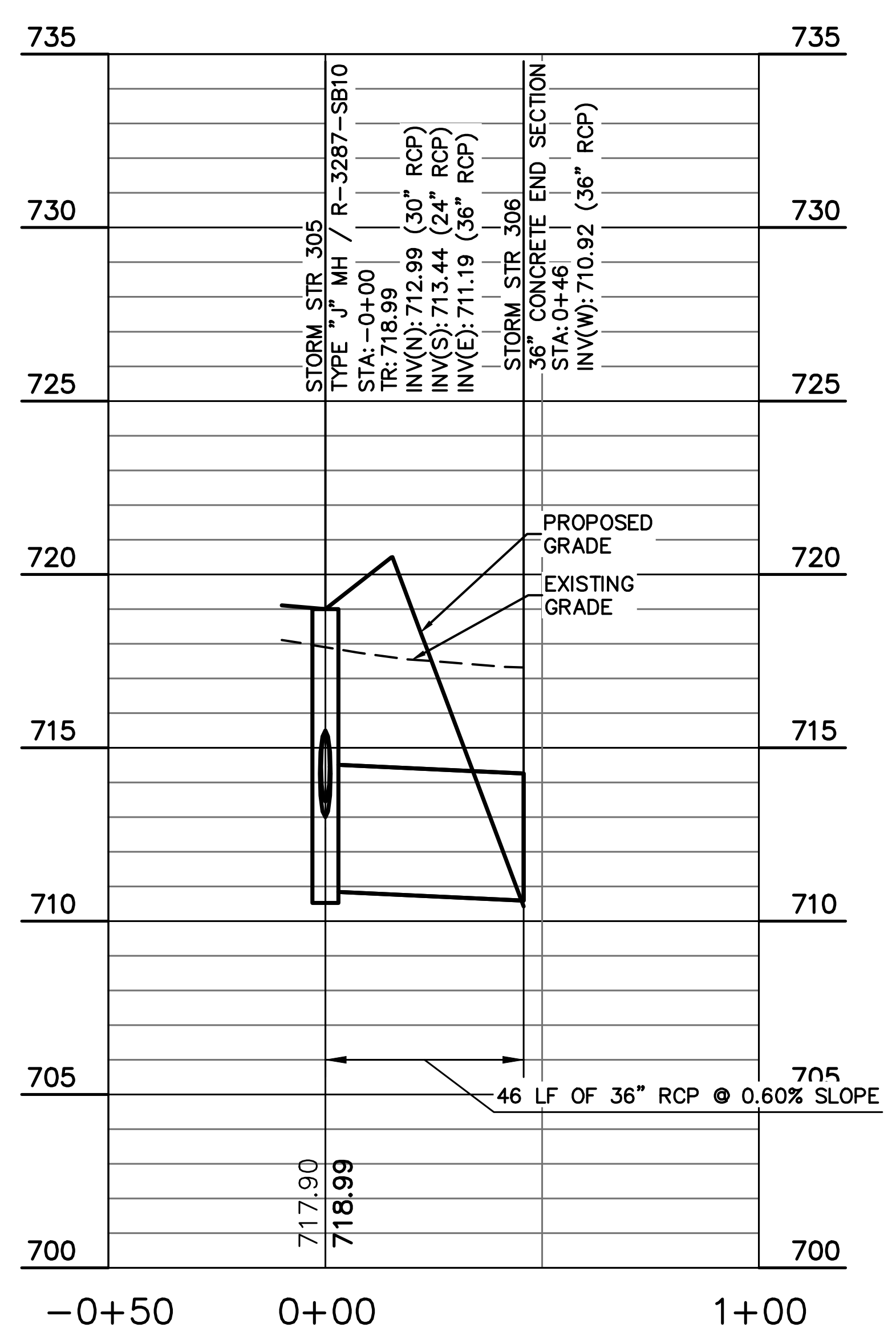
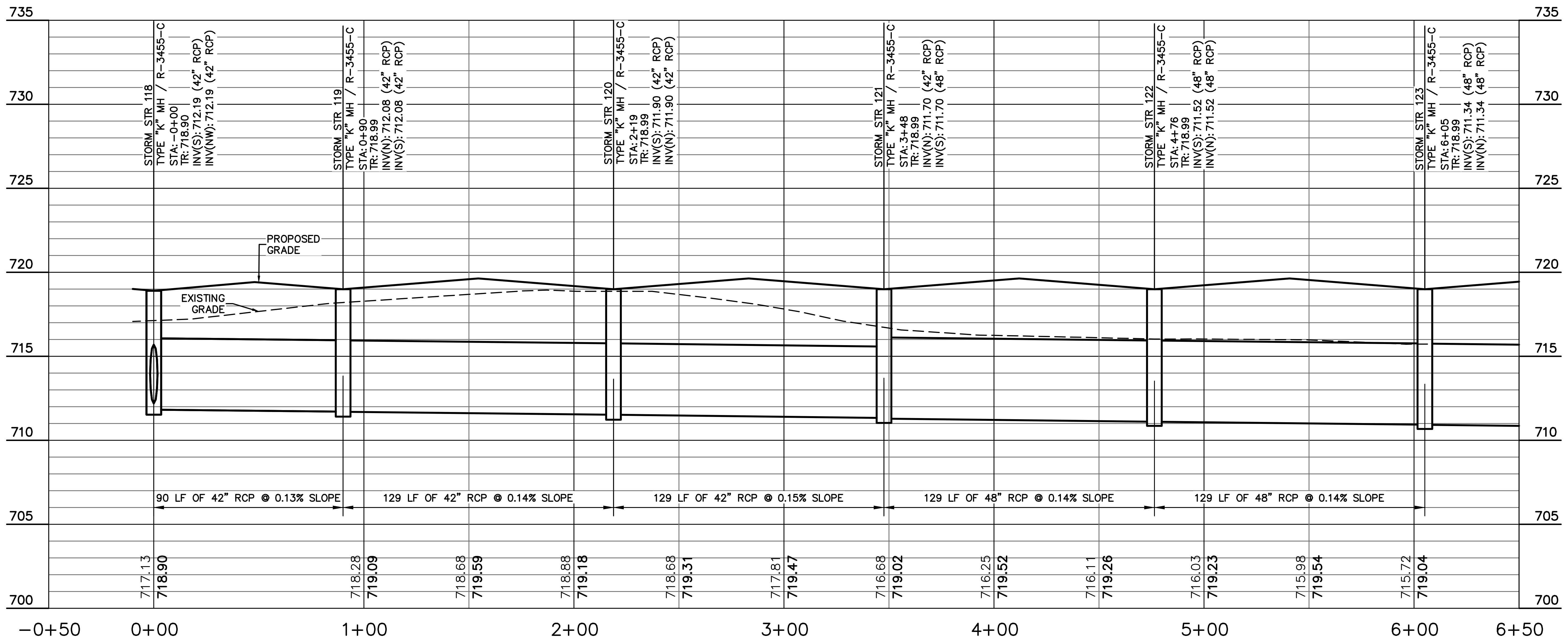

SS
STORM 14
STORM STR 305
TR: 718.99
−0+10
0+00
0+46
STORM STR 306
INV(W): 710.92
SCALE: HORZ. 1"=40'
VERT. 1"=5'


STORM STR 118
TR: 718.90
−0+10
0+00
1+00
2+00
3+00
4+00
5+00
6+00
STORM STR 119
TR: 718.99
STORM STR 120
TR: 718.99
STORM STR 121
TR: 718.99
STORM STR 122
TR: 718.99
STORM STR 123
TR: 718.99
SS
SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 14


735
730
725
720
715
710
705
700
STORM STR 305
TYPE "J" MH / R−3287−SB10
STA: −0+00
TR: 718.99
INV(N): 712.99 (30" RCP)
INV(S): 713.44 (24" RCP)
INV(E): 711.19 (36" RCP)
STORM STR 306
36" CONCRETE END SECTION
STA: 0+46
INV(W): 710.92 (36" RCP)
PROPOSED GRADE
EXISTING GRADE
46 LF OF 36" RCP @ 0.60% SLOPE
717.90
718.99
−0+50
0+00
1+00

STORM 15


735
730
725
720
715
710
705
700
STORM STR 118
TYPE "K" MH / R−3455−C
STA: −0+00
TR: 718.90
INV(S): 712.19 (42" RCP)
INV(NW): 712.19 (42" RCP)
STORM STR 119
TYPE "K" MH / R−3455−C
STA: 0+90
TR: 718.99
INV(N): 712.08 (42" RCP)
INV(S): 712.08 (42" RCP)
STORM STR 120
TYPE "K" MH / R−3455−C
STA: 2+19
TR: 718.99
INV(S): 711.90 (42" RCP)
INV(N): 711.90 (42" RCP)
STORM STR 121
TYPE "K" MH / R−3455−C
STA: 3+48
TR: 718.99
INV(N): 711.70 (42" RCP)
INV(S): 711.70 (48" RCP)
STORM STR 122
TYPE "K" MH / R−3455−C
STA: 4+76
TR: 718.99
INV(S): 711.52 (48" RCP)
INV(N): 711.52 (48" RCP)
STORM STR 123
TYPE "K" MH / R−3455−C
STA: 6+05
TR: 718.99
INV(S): 711.34 (48" RCP)
INV(N): 711.34 (48" RCP)
PROPOSED GRADE
EXISTING GRADE
90 LF OF 42" RCP @ 0.13% SLOPE
129 LF OF 42" RCP @ 0.14% SLOPE
129 LF OF 42" RCP @ 0.15% SLOPE
129 LF OF 48" RCP @ 0.14% SLOPE
129 LF OF 48" RCP @ 0.14% SLOPE
717.13
718.90
718.28
719.09
718.68
719.59
718.88
719.18
718.68
719.31
717.81
719.47
716.68
719.02
716.25
719.52
716.11
719.26
716.03
719.23
715.98
719.54
715.72
719.04
−0+50
0+00
1+00
2+00
3+00
4+00
5+00
6+00
6+50

EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
			TELEPHONE PEDESTAL
	INLET	⊠	TRANSFORMER
	MAILBOX		TREE
	PINE		VENT
●	POST	Ⓦ	WELL
	POWER POLE		
⊘	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

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ELEV = 731.40

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MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

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2. MANNINGS COEFFICIENT
   n = 0.012
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STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736−3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885−2404

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CERTIFIED BY

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

C429

PLOT DATE: 12/3/2020 11:58 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: DWALLACE
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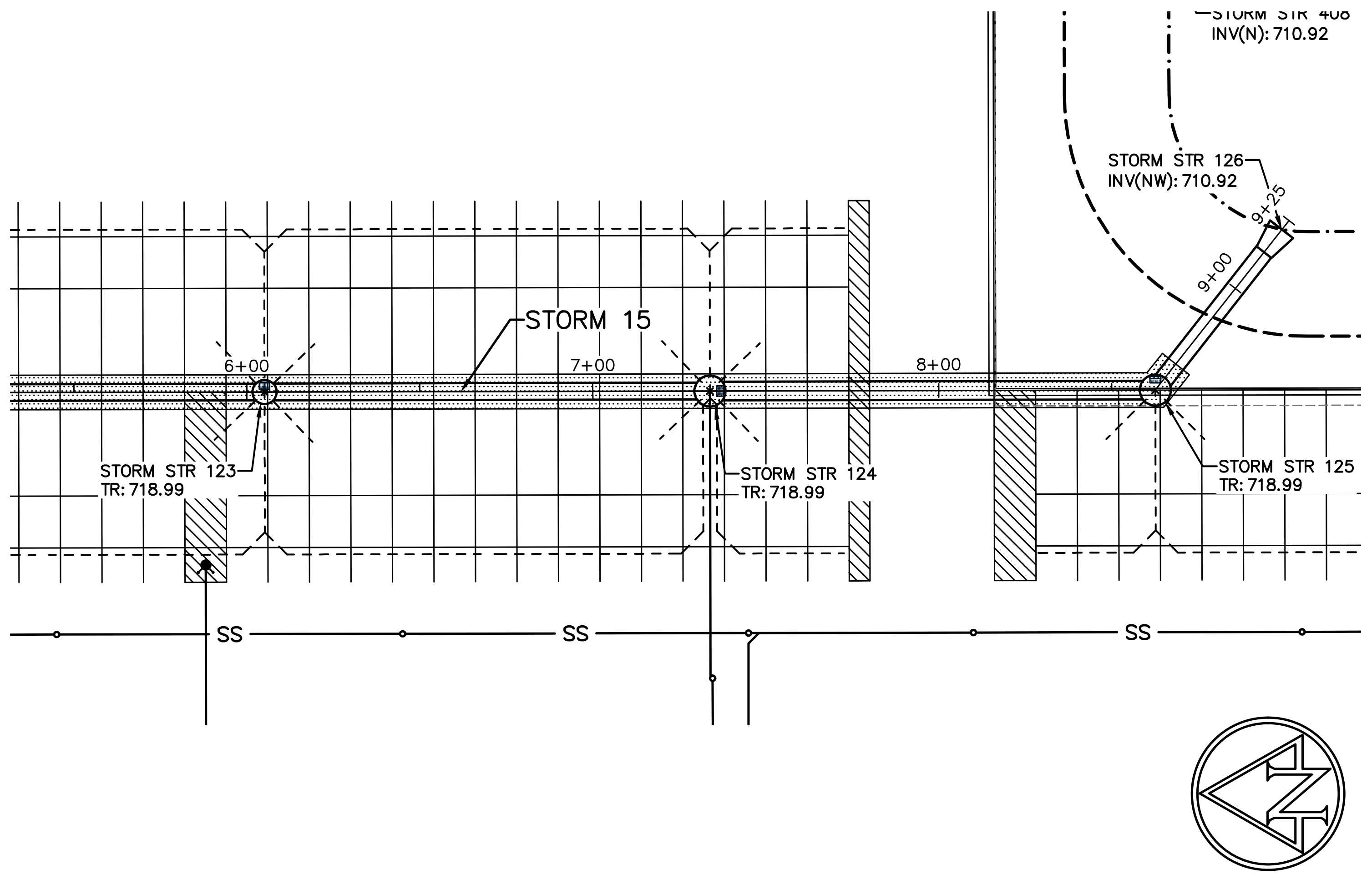
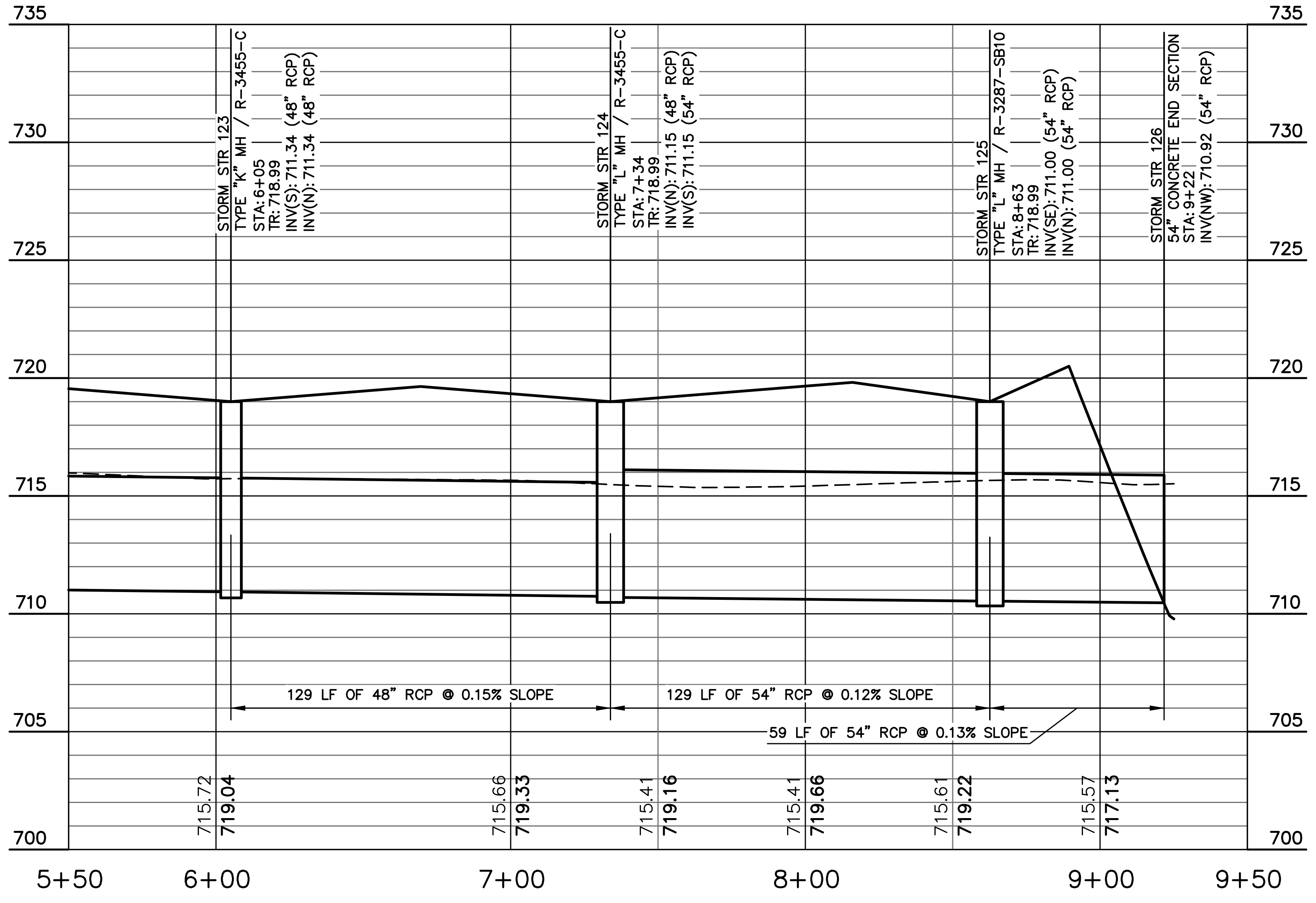

STORM STR 408
INV(N): 710.92
STORM STR 126
INV(NW): 710.92
9+25
9+00
STORM 15
6+00
7+00
8+00
STORM STR 123
TR: 718.99
STORM STR 124
TR: 718.99
STORM STR 125
TR: 718.99
SS
SS
SS

STORM 15

SCALE: HORZ. 1"=40'
VERT. 1"=5'


735
730
725
720
715
710
705
700
STORM STR 123
TYPE "K" MH / R-3455-C
STA: 6+05
TR: 718.99
INV(S): 711.34 (48" RCP)
INV(N): 711.34 (48" RCP)
STORM STR 124
TYPE "L" MH / R-3455-C
STA: 7+34
TR: 718.99
INV(N): 711.15 (48" RCP)
INV(S): 711.15 (54" RCP)
STORM STR 125
TYPE "L" MH / R-3287-SB10
STA: 8+63
TR: 718.99
INV(SE): 711.00 (54" RCP)
INV(N): 711.00 (54" RCP)
STORM STR 126
54" CONCRETE END SECTION
STA: 9+22
INV(NW): 710.92 (54" RCP)
129 LF OF 48" RCP @ 0.15% SLOPE
129 LF OF 54" RCP @ 0.12% SLOPE
59 LF OF 54" RCP @ 0.13% SLOPE
715.72
719.04
715.66
719.33
715.41
719.16
715.41
719.66
715.61
719.22
715.57
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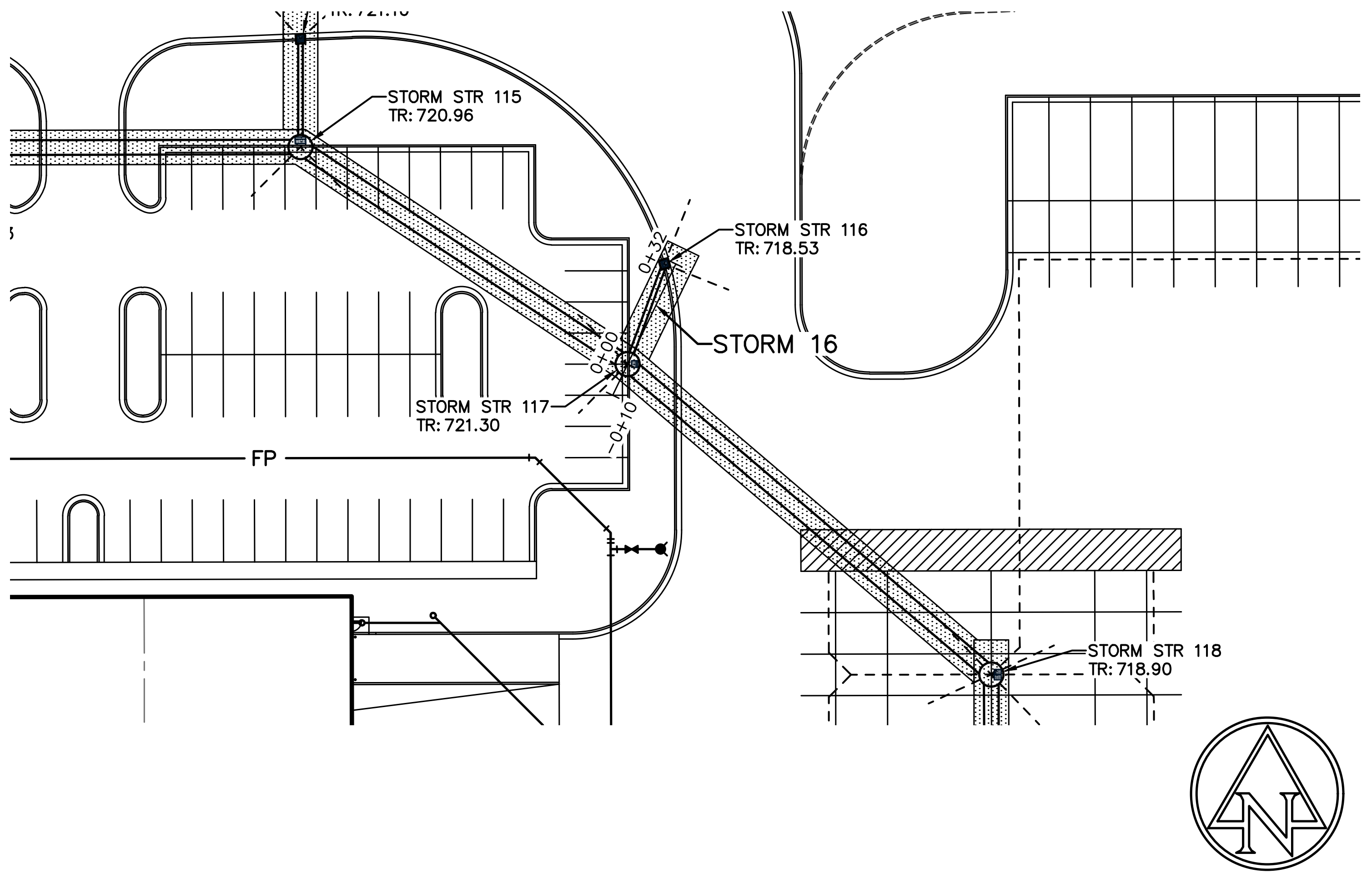
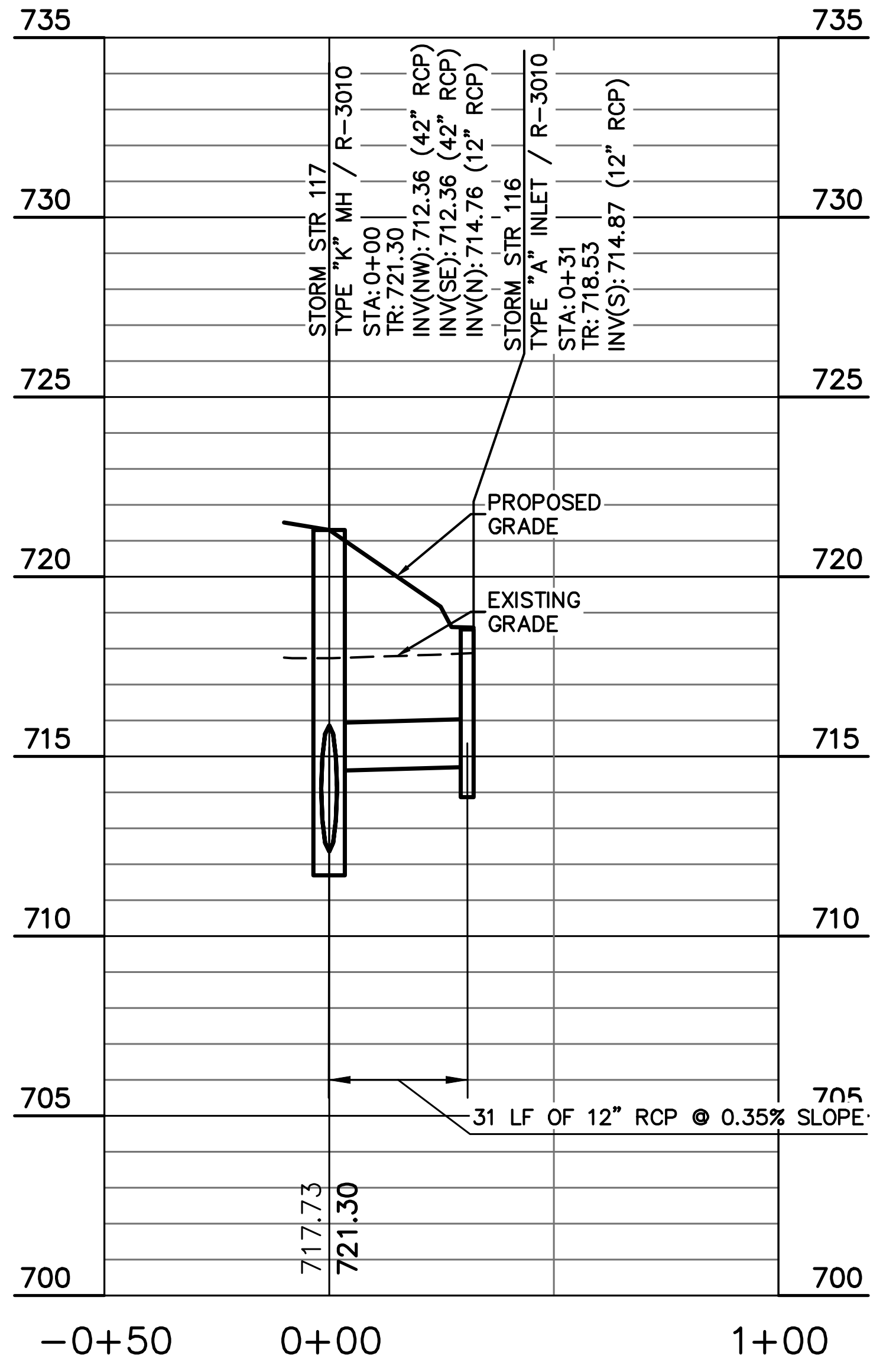
8+00
9+00
9+50


STORM STR 115
TR: 720.96
STORM STR 116
TR: 718.53
STORM 16
STORM STR 117
TR: 721.30
FP
STORM STR 118
TR: 718.90

SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 16


735
730
725
720
715
710
705
700
STORM STR 117
TYPE "K" MH / R-3010
STA: 0+00
TR: 721.30
INV(NW): 712.36 (42" RCP)
INV(SE): 712.36 (42" RCP)
INV(N): 714.76 (12" RCP)
STORM STR 116
TYPE "A" INLET / R-3010
STA: 0+31
TR: 718.53
INV(S): 714.87 (12" RCP)
PROPOSED GRADE
EXISTING GRADE
31 LF OF 12" RCP @ 0.35% SLOPE
717.73
721.30
-0+50
0+00
1+00

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18–83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:
1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:
1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926–1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736–6174
GAS	VECTREN	JON EASTHAM	(765) 287–2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736–3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885–2404

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Indianapolis, IN 46256

317.567.6100

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9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

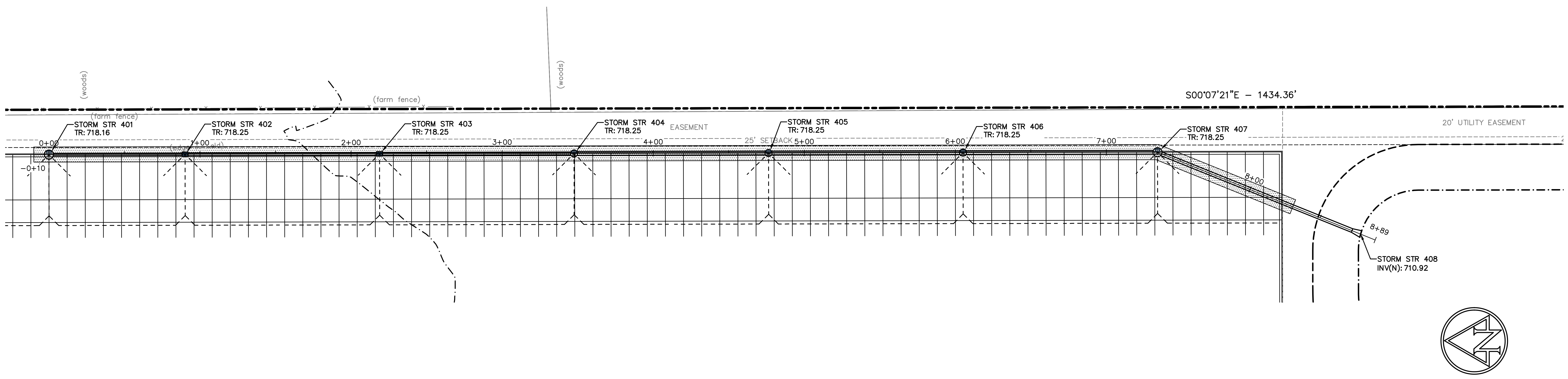
NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

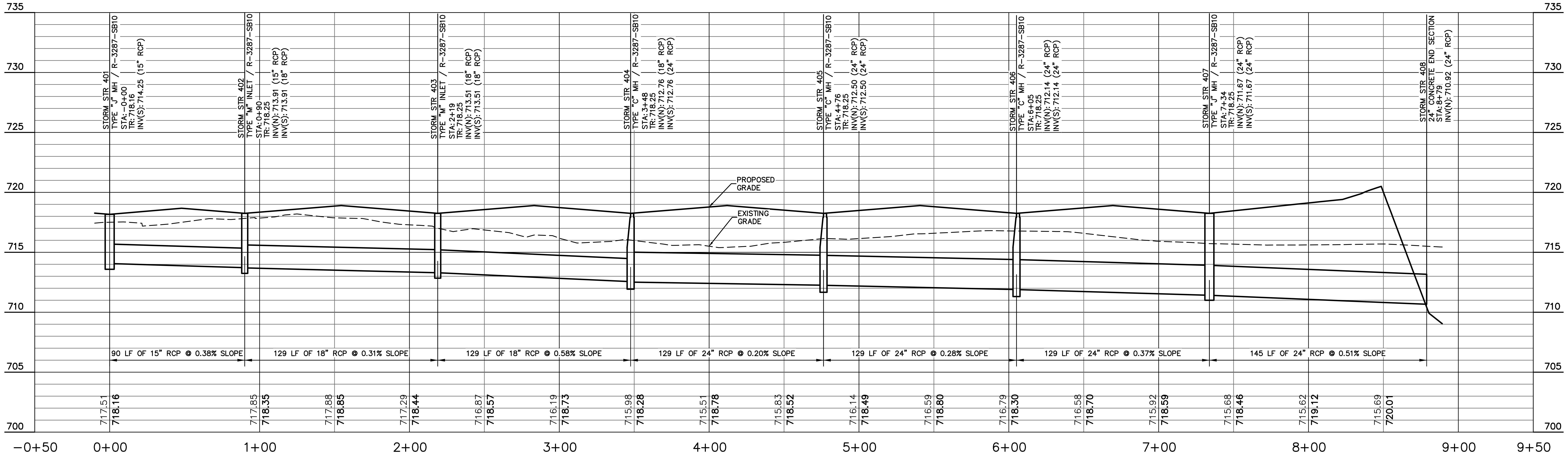
C430

PLOT DATE: 12/3/2020 11:59 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: DWALLACE
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM_PP.dwg


(woods)
(woods)
(farm fence)
(farm fence)
(edge of field)
S00°07'21"E – 1434.36'
STORM STR 401
TR: 718.16
STORM STR 402
TR: 718.25
STORM STR 403
TR: 718.25
STORM STR 404
TR: 718.25
EASEMENT
STORM STR 405
TR: 718.25
25' SETBACK
STORM STR 406
TR: 718.25
STORM STR 407
TR: 718.25
20' UTILITY EASEMENT
STORM STR 408
INV(N): 710.92
−0+10
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
8+89

SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 17


STORM STR 401
TYPE "J" MH / R–3287–SB10
STA:–0+00
TR: 718.16
INV(S): 714.25 (15" RCP)
STORM STR 402
TYPE "M" INLET / R–3287–SB10
STA:0+90
TR: 718.25
INV(N): 713.91 (15" RCP)
INV(S): 713.91 (18" RCP)
STORM STR 403
TYPE "M" INLET / R–3287–SB10
STA:2+19
TR: 718.25
INV(N): 713.51 (18" RCP)
INV(S): 713.51 (18" RCP)
STORM STR 404
TYPE "C" MH / R–3287–SB10
STA:3+48
TR: 718.25
INV(N): 712.76 (18" RCP)
INV(S): 712.76 (24" RCP)
STORM STR 405
TYPE "C" MH / R–3287–SB10
STA:4+76
TR: 718.25
INV(N): 712.50 (24" RCP)
INV(S): 712.50 (24" RCP)
STORM STR 406
TYPE "C" MH / R–3287–SB10
STA:6+05
TR: 718.25
INV(N): 712.14 (24" RCP)
INV(S): 712.14 (24" RCP)
STORM STR 407
TYPE "J" MH / R–3287–SB10
STA:7+34
TR: 718.25
INV(N): 711.67 (24" RCP)
INV(S): 711.67 (24" RCP)
STORM STR 408
24" CONCRETE END SECTION
STA:8+79
INV(N): 710.92 (24" RCP)
PROPOSED GRADE
EXISTING GRADE
90 LF OF 15" RCP @ 0.38% SLOPE
129 LF OF 18" RCP @ 0.31% SLOPE
129 LF OF 18" RCP @ 0.58% SLOPE
129 LF OF 24" RCP @ 0.20% SLOPE
129 LF OF 24" RCP @ 0.28% SLOPE
129 LF OF 24" RCP @ 0.37% SLOPE
145 LF OF 24" RCP @ 0.51% SLOPE
735
730
725
720
715
710
705
700
717.51 718.16
717.85 718.35
717.88 718.85
717.29 718.44
716.87 718.57
716.19 718.73
715.98 718.28
715.51 718.78
715.83 718.52
716.14 718.49
716.59 718.80
716.79 718.30
716.58 718.70
715.92 718.59
715.68 718.46
715.62 719.12
715.69 720.01
−0+50
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
9+50

PLOT DATE: 12/3/2020 11:59 AM
PLOT SCALE: 1:2.5849
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DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM_PP.dwg

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18–83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

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ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

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WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885–2404

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www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLAS
PE11800804

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APPROVAL PENDING

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

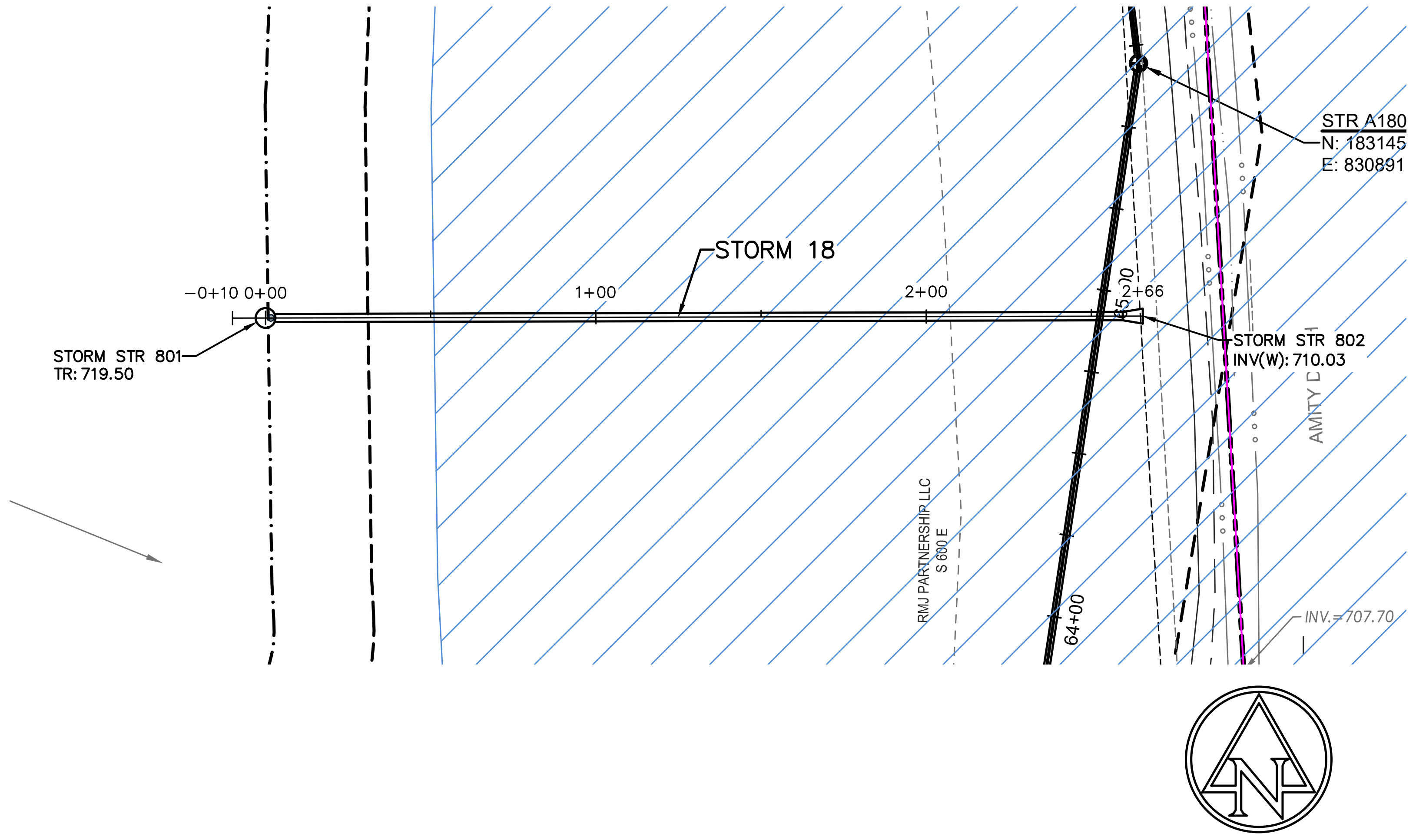
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

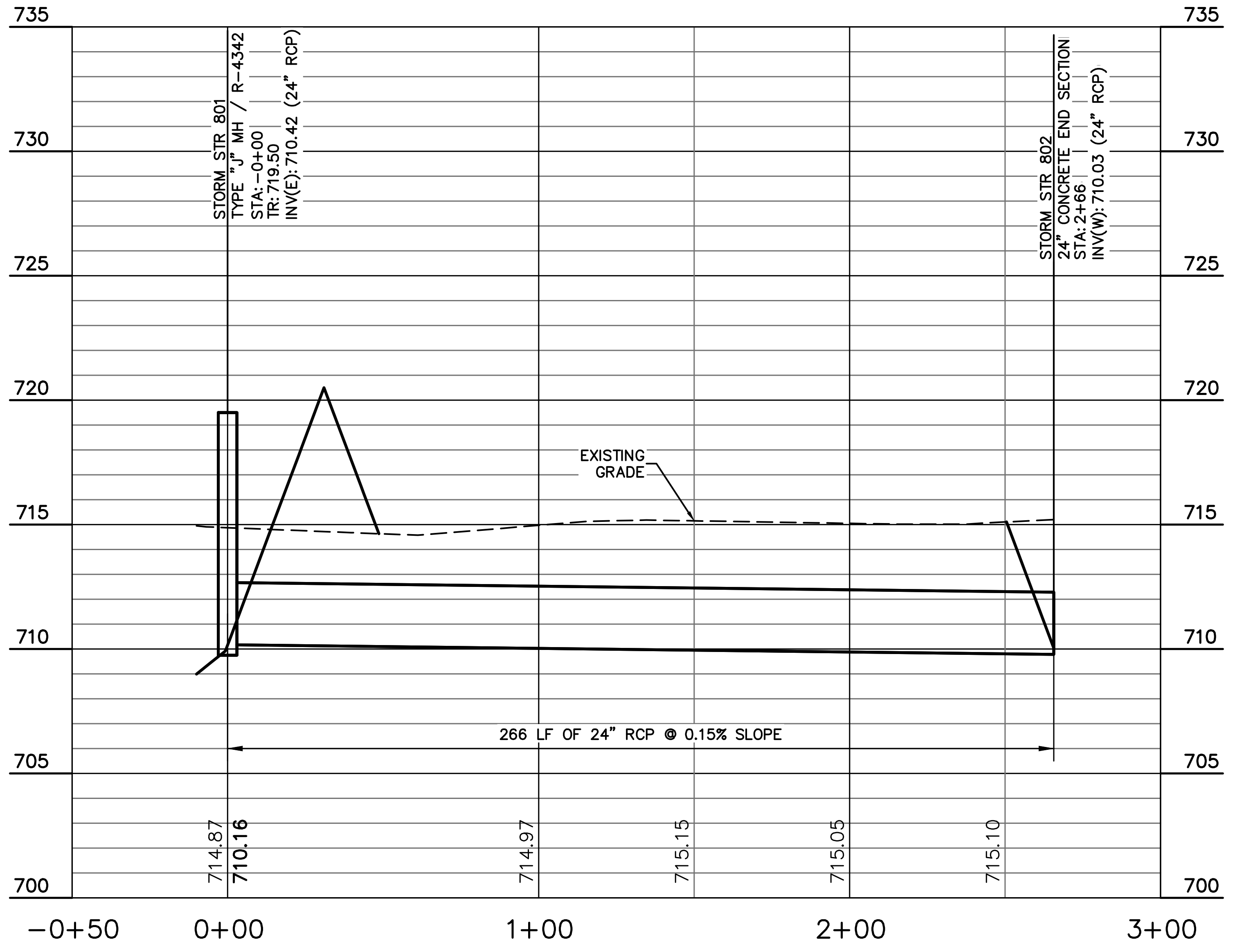
STORM SEWER PLAN AND PROFILE

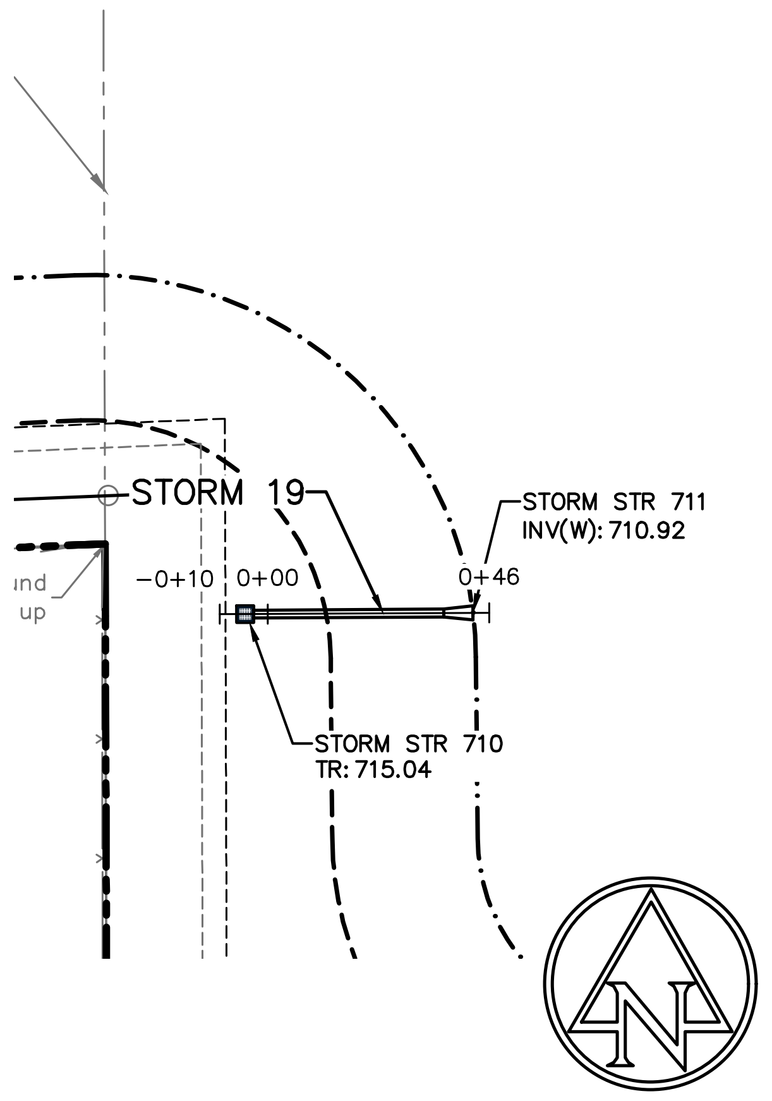
C431


STORM 18
-0+10 0+00
1+00
2+00
2+66
STORM STR 801
TR: 719.50
STORM STR 802
INV(W): 710.03
STR A180
N: 183145
E: 830891
RMJ PARTNERSHIP LLC
S 600 E
AMITY D
64+00
INV.=707.70

SCALE: HORZ. 1"=40'
VERT. 1"=5'

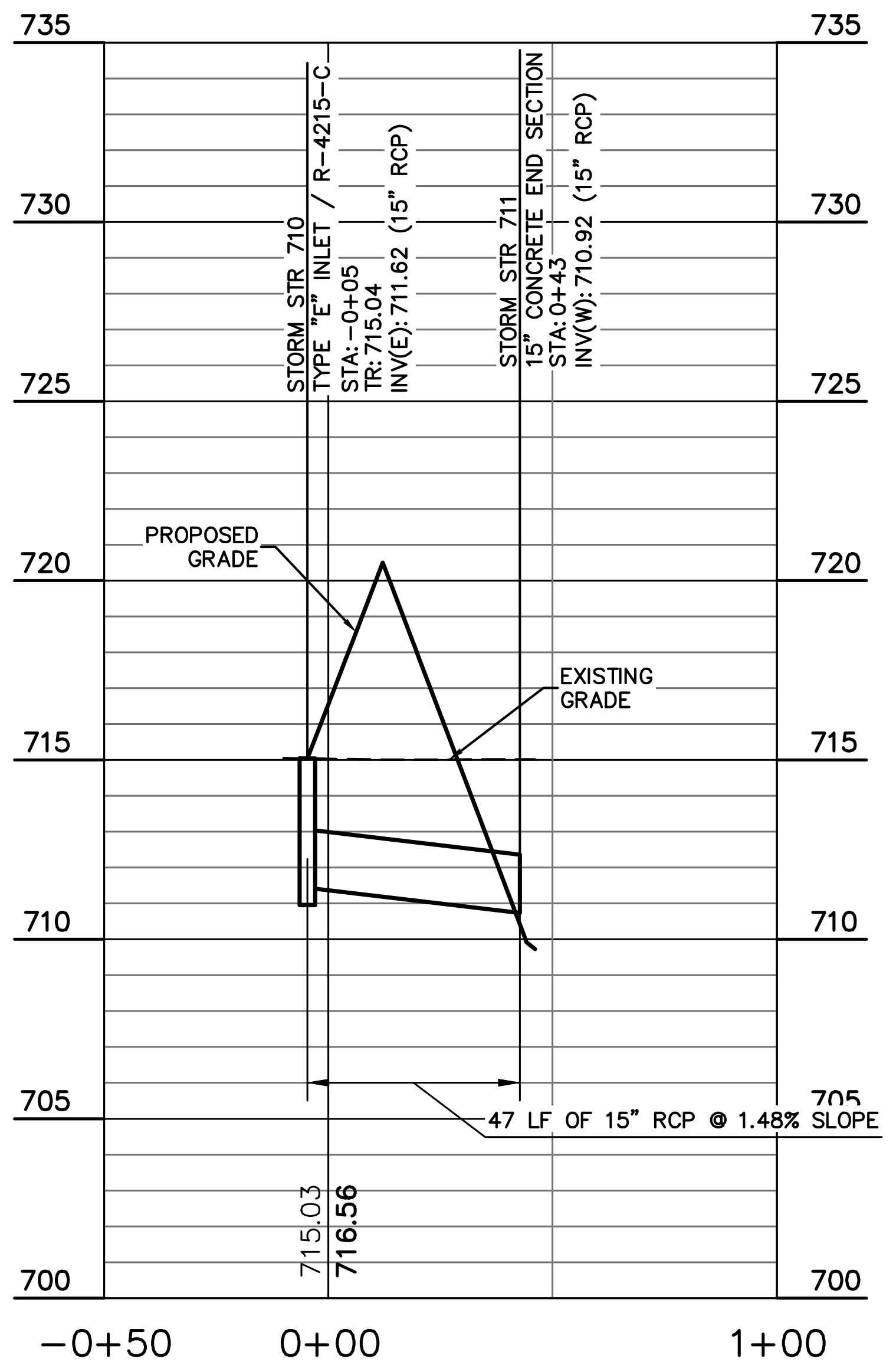
STORM 18


735
730
725
720
715
710
705
700
STORM STR 801
TYPE "J" MH / R-4342
STA: -0+00
TR: 719.50
INV(E): 710.42 (24" RCP)
STORM STR 802
24" CONCRETE END SECTION
STA: 2+66
INV(W): 710.03 (24" RCP)
EXISTING GRADE
266 LF OF 24" RCP @ 0.15% SLOPE
714.87
710.16
714.97
715.15
715.05
715.10
-0+50
0+00
1+00
2+00
3+00


STORM 19
-0+10 0+00
0+46
STORM STR 711
INV(W): 710.92
STORM STR 710
TR: 715.04

SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 19


735
730
725
720
715
710
705
700
STORM STR 710
TYPE "E" INLET / R-4215-C
STA: -0+05
TR: 715.04
INV(E): 711.62 (15" RCP)
STORM STR 711
15" CONCRETE END SECTION
STA: 0+43
INV(W): 710.92 (15" RCP)
PROPOSED GRADE
EXISTING GRADE
47 LF OF 15" RCP @ 1.48% SLOPE
715.03
716.56
-0+50
0+00
1+00

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
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- TRANSFORMER
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BENCHMARK DATA

(NAVD '88)

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MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

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MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

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REVISION SCHEDULE

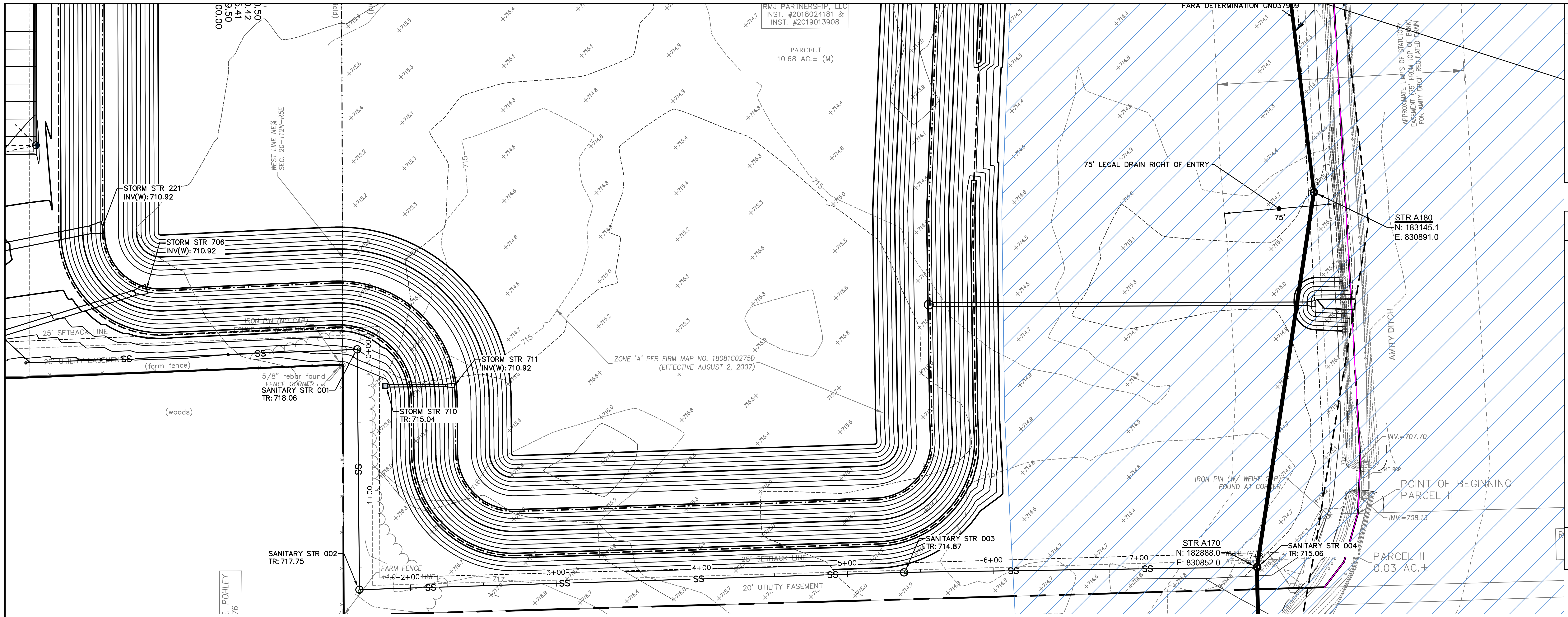
NO.	DESCRIPTION	DATE

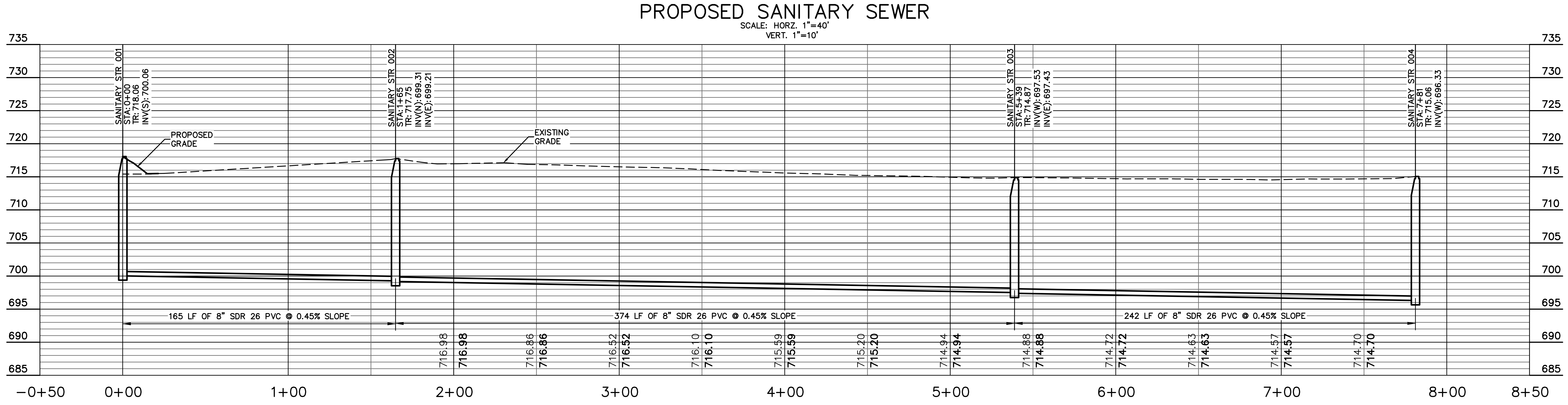
Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

C432

PLOT DATE: 12/3/2020 1:28 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C420.STM PP.dwg


STORM STR 221
INV(W): 710.92
STORM STR 706
INV(W): 710.92
STORM STR 711
INV(W): 710.92
STORM STR 710
TR: 715.04
SANITARY STR 001
TR: 718.06
5/8" rebar found
FENCE CORNER
SANITARY STR 002
TR: 717.75
SANITARY STR 003
TR: 714.87
SANITARY STR 004
TR: 715.06
STR A180
N: 183145.1
E: 830891.0
STR A170
N: 182888.0
E: 830852.0
PARCEL I
10.68 AC.± (M)
PARCEL II
0.03 AC.±
POINT OF BEGINNING
PARCEL II
75' LEGAL DRAIN RIGHT OF ENTRY
75'
ZONE "A" PER FIRM MAP NO. 18081C0275D
(EFFECTIVE AUGUST 2, 2007)
WEST LINE NE¼
SEC. 20-T12N-R5E
25' SETBACK LINE
20' UTILITY EASEMENT
IRON PIN (NO CAP)
IRON PIN W/ WEIHE CAP
FOUND AT CORNER
AMITY DITCH
INV.=707.70
INV.=708.13
(farm fence)
FARM FENCE
(woods)
RMJ PARTNERSHIP, LLC
INST. #2018024181 &
INST. #2019013908
FARA DETERMINATION GN037909
1+00
2+00
3+00
4+00
5+00
6+00
7+00
SS



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
	TELEPHONE PEDESTAL
INLET	TRANSFORMER
MAILBOX	TREE
PINE	VENT
POST	WELL
POWER POLE	
RIGHT OF WAY MONUMENT	
SIGN	

BENCHMARK DATA

(NAVD '88)

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MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

!! CAUTION !!

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CALL TOLL FREE
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– INDIANA UNDERGROUND –

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Suite 105
Indianapolis, IN 46256
317.567.6100

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9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

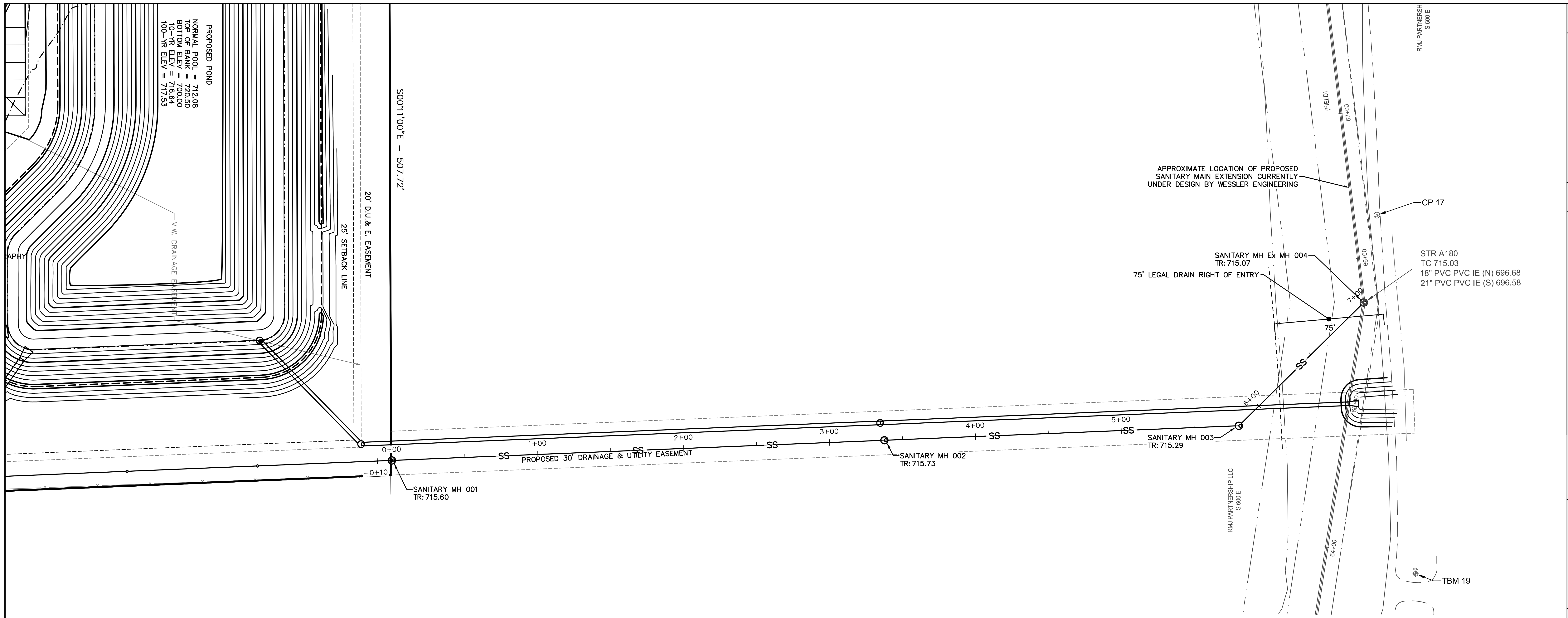
NO.	DESCRIPTION	DATE

Project Number 2019.02798

SANITARY SEWER PLAN & PROFILE

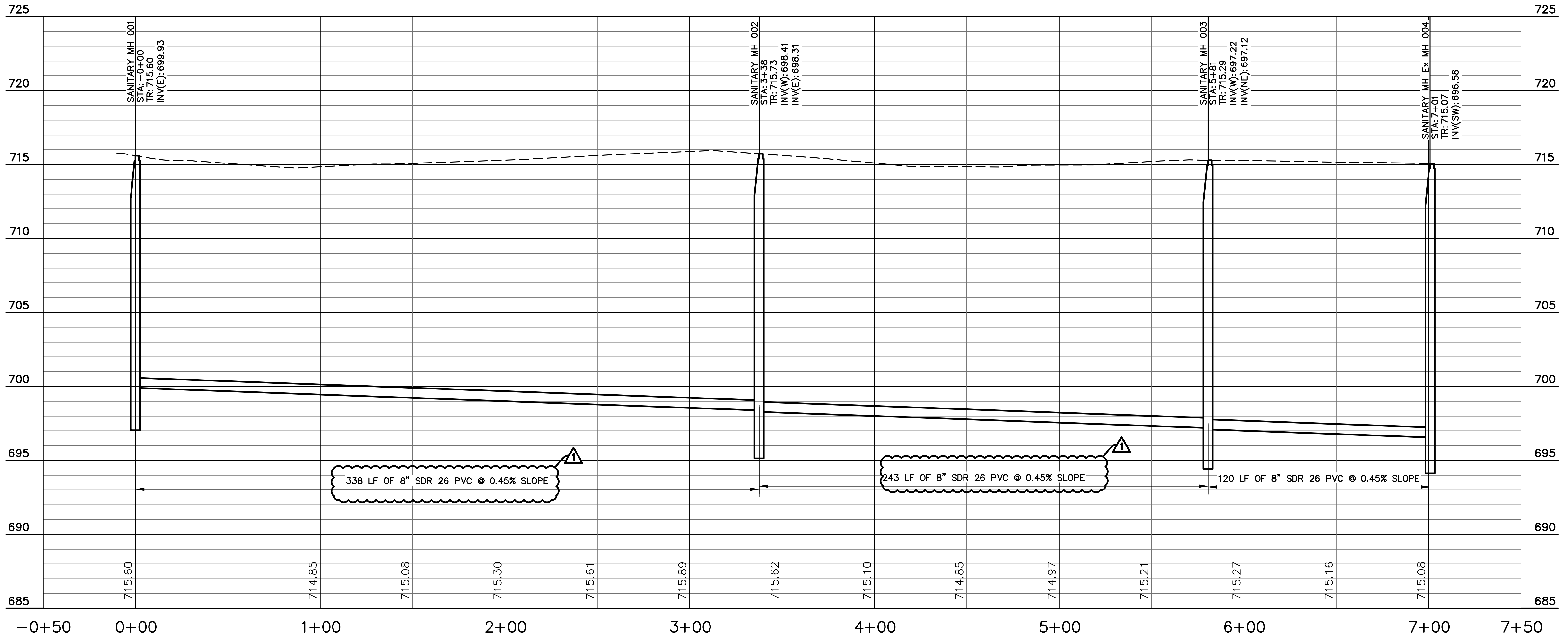
C450

PLOT DATE: 12/3/2020 12:00 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C450.SAN PP.dwg


PROPOSED POND
NORMAL POOL = 712.08
TOP OF BANK = 720.50
BOTTOM ELEV = 700.00
10-YR ELEV = 716.64
100-YR ELEV = 717.53
S00°11'00"E – 507.72'
20' D.U.& E. EASEMENT
25' SETBACK LINE
V.W. DRAINAGE EASEMENT
APHY
0+00
–0+10
1+00
2+00
3+00
4+00
5+00
6+00
7+00
SS
PROPOSED 30' DRAINAGE & UTILITY EASEMENT
SANITARY MH 001
TR: 715.60
SANITARY MH 002
TR: 715.73
SANITARY MH 003
TR: 715.29
SANITARY MH Ex MH 004
TR: 715.07
75' LEGAL DRAIN RIGHT OF ENTRY
75'
APPROXIMATE LOCATION OF PROPOSED SANITARY MAIN EXTENSION CURRENTLY UNDER DESIGN BY WESSLER ENGINEERING
CP 17
STR A180
TC 715.03
18" PVC PVC IE (N) 696.68
21" PVC PVC IE (S) 696.58
(FIELD)
67+00
66+00
65+00
64+00
RMJ PARTNERSHIP LLC
S 600 E
TBM
TBM 19

SCALE: HORZ. 1"=40'
VERT. 1"=5'

SANITARY 1


725
720
715
710
705
700
695
690
685
SANITARY MH 001
STA: -0+00
TR: 715.60
INV(E): 699.93
SANITARY MH 002
STA: 3+38
TR: 715.73
INV(W): 698.41
INV(E): 698.31
SANITARY MH 003
STA: 5+81
TR: 715.29
INV(W): 697.22
INV(NE): 697.12
SANITARY MH Ex MH 004
STA: 7+01
TR: 715.07
INV(SW): 696.58
338 LF OF 8" SDR 26 PVC @ 0.45% SLOPE
243 LF OF 8" SDR 26 PVC @ 0.45% SLOPE
120 LF OF 8" SDR 26 PVC @ 0.45% SLOPE
1
1
715.60
714.85
715.08
715.30
715.61
715.89
715.62
715.10
714.85
714.97
715.21
715.27
715.16
715.08
-0+50
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
7+50

EXISTING LEGEND

	BEEHIVE INLET	○	STAND PIPE
	COMBINATION POLE		STUMP
E	ELECTRIC METER BOX		SUB SURFACE DRAIN
G	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE	⊕	TEST HOLE
HB	HOSE BIB	T	TELEPHONE MARKER SIGN
	INLET	T	TELEPHONE PEDESTAL
	MAILBOX	☒	TRANSFORMER
	PINE		TREE
●	POST		VENT
	POWER POLE	W	WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X' ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

STORM SEWER NOTES:

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT
   n = 0.012
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

▨ GRANULAR BACKFILL REQUIRED

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
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GENERAL NOTES:

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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLASHUK
PE11800804

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
3/2/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

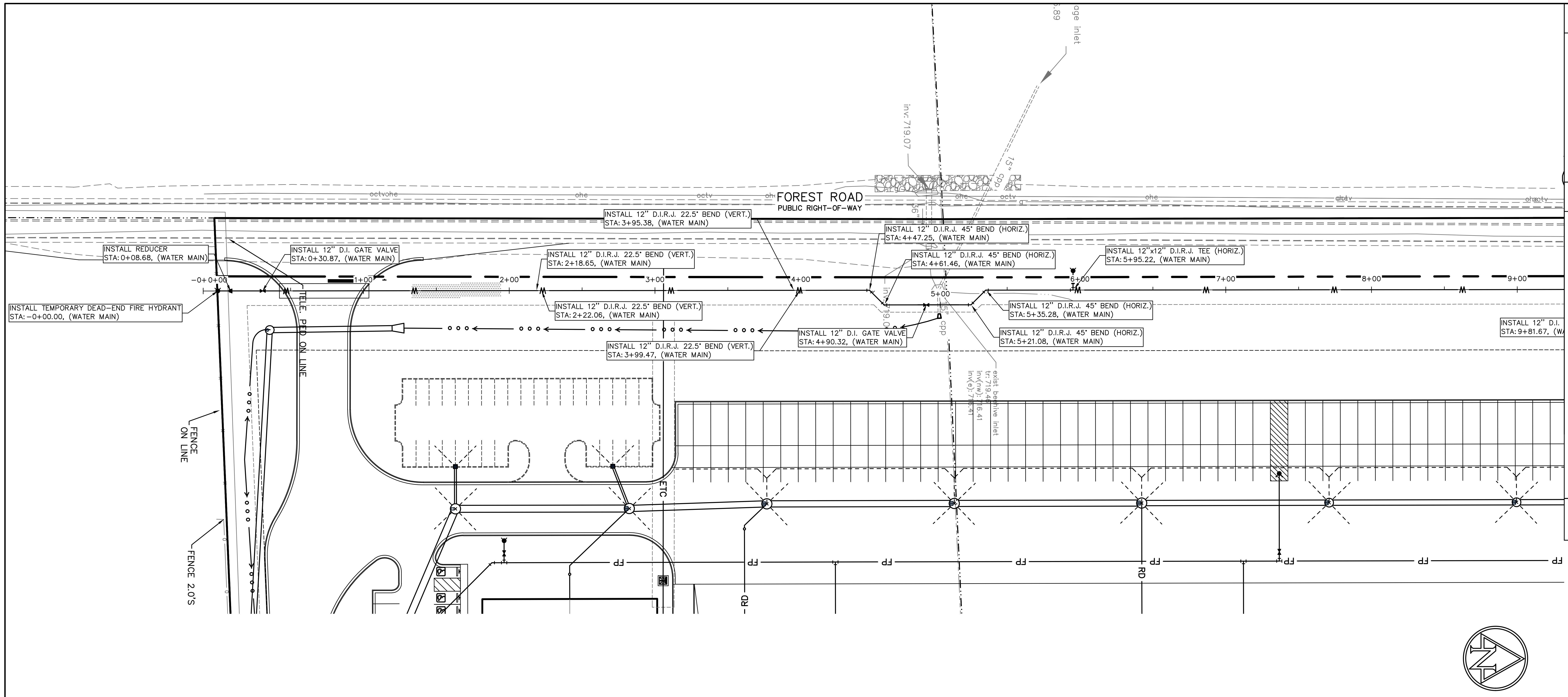
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	DPW COMMENTS	2/25/20
2	SITE REVISIONS	3/13/20
3	IAW COMMENTS	4/20/20

Project Number 2019.02798

SANITARY SEWER PLAN AND PROFILE

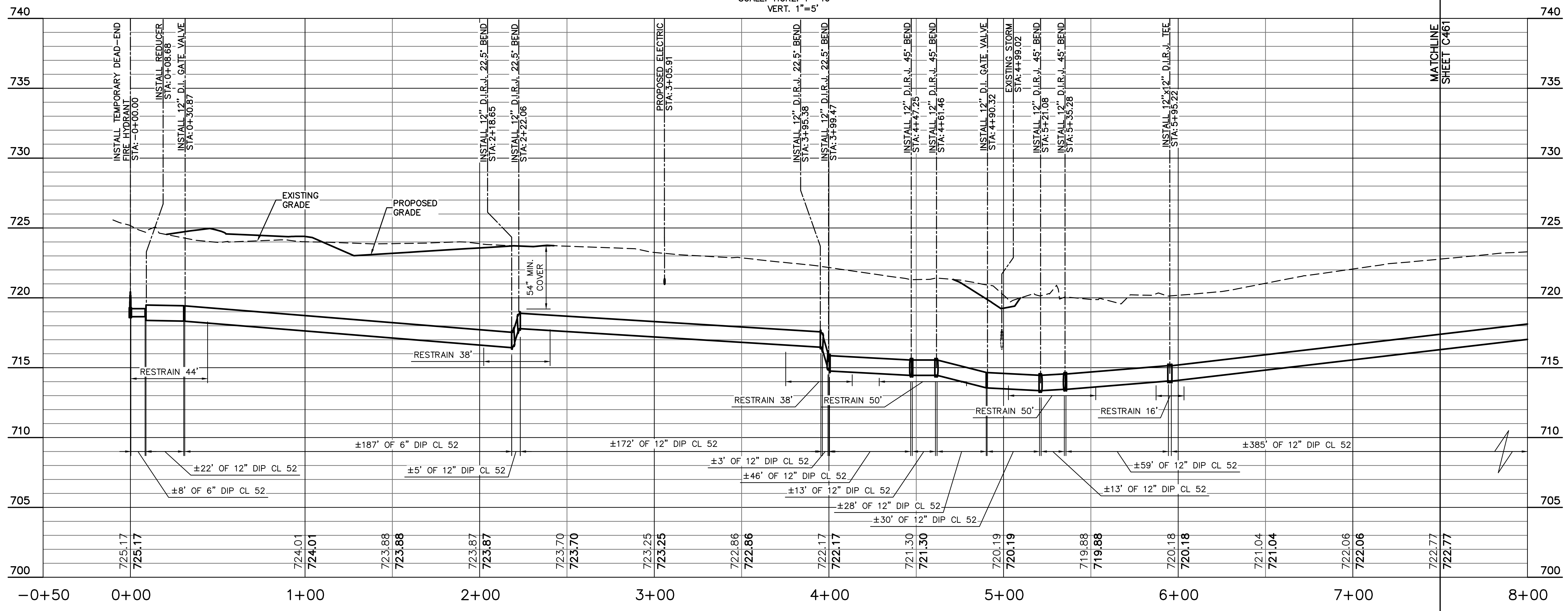
C450



FOREST ROAD
PUBLIC RIGHT–OF–WAY
octvohe
ohe
octv
INSTALL REDUCER
STA: 0+08.68, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE
STA: 0+30.87, (WATER MAIN)
INSTALL TEMPORARY DEAD–END FIRE HYDRANT
STA: –0+00.00, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.)
STA: 2+18.65, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.)
STA: 2+22.06, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.)
STA: 3+95.38, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.)
STA: 3+99.47, (WATER MAIN)
INSTALL 12" D.I.R.J. 45° BEND (HORIZ.)
STA: 4+47.25, (WATER MAIN)
INSTALL 12" D.I.R.J. 45° BEND (HORIZ.)
STA: 4+61.46, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE
STA: 4+90.32, (WATER MAIN)
INSTALL 12" D.I.R.J. 45° BEND (HORIZ.)
STA: 5+21.08, (WATER MAIN)
INSTALL 12" D.I.R.J. 45° BEND (HORIZ.)
STA: 5+35.28, (WATER MAIN)
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.)
STA: 5+95.22, (WATER MAIN)
INSTALL 12" D.I.
STA: 9+81.67, (W
–0+ 0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
TELE. PED ON LINE
FENCE ON LINE
FENCE 2.0'S
inv: 719.07
15" cpp
36"
exist beehive inlet
tr: 719.46
inv(nw): 716.41
inv(e): 716.41
FP
RD

WATER MAIN

SCALE: HORZ. 1"=40'
VERT. 1"=5'



740
735
730
725
720
715
710
705
700
INSTALL TEMPORARY DEAD–END FIRE HYDRANT
STA: –0+00.00
INSTALL REDUCER
STA: 0+08.68
INSTALL 12" D.I. GATE VALVE
STA: 0+30.87
INSTALL 12" D.I.R.J. 22.5° BEND
STA: 2+18.65
INSTALL 12" D.I.R.J. 22.5° BEND
STA: 2+22.06
PROPOSED ELECTRIC
STA: 3+05.91
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STA: 3+95.38
INSTALL 12" D.I.R.J. 22.5° BEND
STA: 3+99.47
INSTALL 12" D.I.R.J. 45° BEND
STA: 4+47.25
INSTALL 12" D.I.R.J. 45° BEND
STA: 4+61.46
INSTALL 12" D.I. GATE VALVE
STA: 4+90.32
EXISTING STORM
STA: 4+99.02
INSTALL 12" D.I.R.J. 45° BEND
STA: 5+21.08
INSTALL 12" D.I.R.J. 45° BEND
STA: 5+35.28
INSTALL 12"x12" D.I.R.J. TEE
STA: 5+95.22
MATCHLINE
SHEET C461
EXISTING GRADE
PROPOSED GRADE
54" MIN. COVER
RESTRAIN 44'
RESTRAIN 38'
RESTRAIN 38'
RESTRAIN 50'
RESTRAIN 50'
RESTRAIN 16'
±187' OF 6" DIP CL 52
±172' OF 12" DIP CL 52
±385' OF 12" DIP CL 52
±22' OF 12" DIP CL 52
±8' OF 6" DIP CL 52
±5' OF 12" DIP CL 52
±3' OF 12" DIP CL 52
±46' OF 12" DIP CL 52
±13' OF 12" DIP CL 52
±28' OF 12" DIP CL 52
±30' OF 12" DIP CL 52
±59' OF 12" DIP CL 52
±13' OF 12" DIP CL 52
725.17 725.17
724.01 724.01
723.88 723.88
723.87 723.87
723.70 723.70
723.25 723.25
722.86 722.86
722.17 722.17
721.30 721.30
720.19 720.19
719.88 719.88
720.18 720.18
721.04 721.04
722.06 722.06
722.77 722.77
–0+50
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00

EXISTING LEGEND

	BEEHIVE INLET	○	STAND PIPE
	COMBINATION POLE		STUMP
E	ELECTRIC METER BOX		SUB SURFACE DRAIN
G	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
HB	HOSE BIB	T	TELEPHONE MARKER SIGN
	INLET	T	TELEPHONE PEDESTAL
	MAILBOX	☒	TRANSFORMER
	PINE		TREE
●	POST		VENT
	POWER POLE	W	WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

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(NAVD '88)

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GAS	VECTREN	JON EASTHAM	(765) 287–2119
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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLASTIC
No. PE11800804
STATE OF INDIANA

APPROVAL PENDING
NOT FOR CONSTRUCTION

Justin Olastic

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

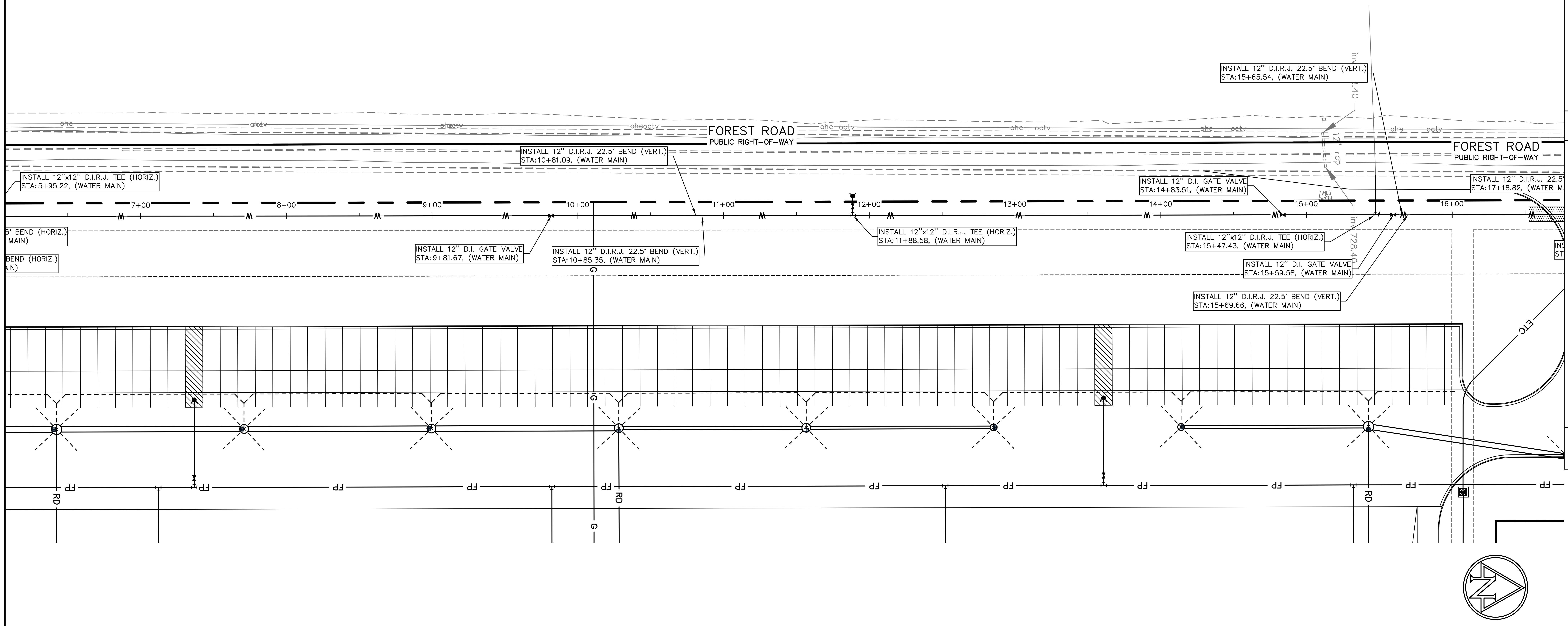
NO.	DESCRIPTION	DATE

Project Number 2019.02798

WATER MAIN PLAN & PROFILE

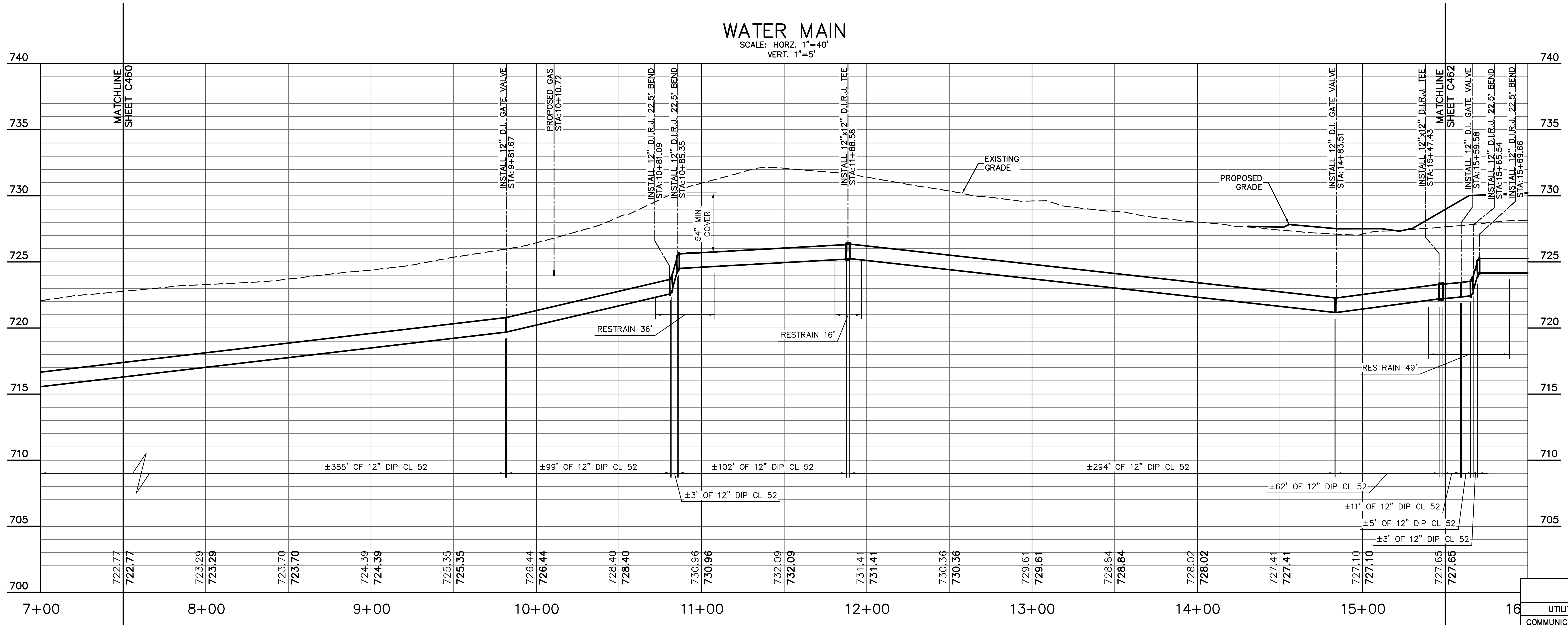
C460

PLOT DATE: 12/3/2020 12:00 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C460.WATER PP.dwg


FOREST ROAD
PUBLIC RIGHT-OF-WAY
ohe
octv
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA: 5+95.22, (WATER MAIN)
5° BEND (HORIZ.) MAIN)
BEND (HORIZ.) AIN)
INSTALL 12" D.I. GATE VALVE STA: 9+81.67, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA: 10+81.09, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA: 10+85.35, (WATER MAIN)
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA: 11+88.58, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA: 14+83.51, (WATER MAIN)
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA: 15+47.43, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA: 15+59.58, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA: 15+65.54, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA: 15+69.66, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° STA: 17+18.82, (WATER M
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
12" rcp
inv 728.40
inv 728.40
ETC
G
RD
FP

WATER MAIN

SCALE: HORZ. 1"=40'
VERT. 1"=5'


MATCHLINE SHEET C460
INSTALL 12" D.I. GATE VALVE STA: 9+81.67
PROPOSED GAS STA: 10+10.72
INSTALL 12" D.I.R.J. 22.5° BEND STA: 10+81.09
INSTALL 12" D.I.R.J. 22.5° BEND STA: 10+85.35
INSTALL 12"x12" D.I.R.J. TEE STA: 11+88.58
INSTALL 12" D.I. GATE VALVE STA: 14+83.51
INSTALL 12"x12" D.I.R.J. TEE STA: 15+47.43
MATCHLINE SHEET C462
INSTALL 12" D.I. GATE VALVE STA: 15+59.58
INSTALL 12" D.I.R.J. 22.5° BEND STA: 15+65.54
INSTALL 12" D.I.R.J. 22.5° BEND STA: 15+69.66
EXISTING GRADE
PROPOSED GRADE
54" MIN. COVER
RESTRAIN 36'
RESTRAIN 16'
RESTRAIN 49'
±385' OF 12" DIP CL 52
±99' OF 12" DIP CL 52
±3' OF 12" DIP CL 52
±102' OF 12" DIP CL 52
±294' OF 12" DIP CL 52
±62' OF 12" DIP CL 52
±11' OF 12" DIP CL 52
±5' OF 12" DIP CL 52
±3' OF 12" DIP CL 52
740
735
730
725
720
715
710
705
700
722.77
723.29
723.70
724.39
725.35
726.44
728.40
730.96
732.09
731.41
730.36
729.61
728.84
728.02
727.41
727.10
727.65
7+00
8+00
9+00
10+00
11+00
12+00
13+00
14+00
15+00
16

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

▨ GRANULAR BACKFILL REQUIRED

GENERAL NOTES:

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2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
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GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLA
No. PE11800804
STATE OF INDIANA
APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

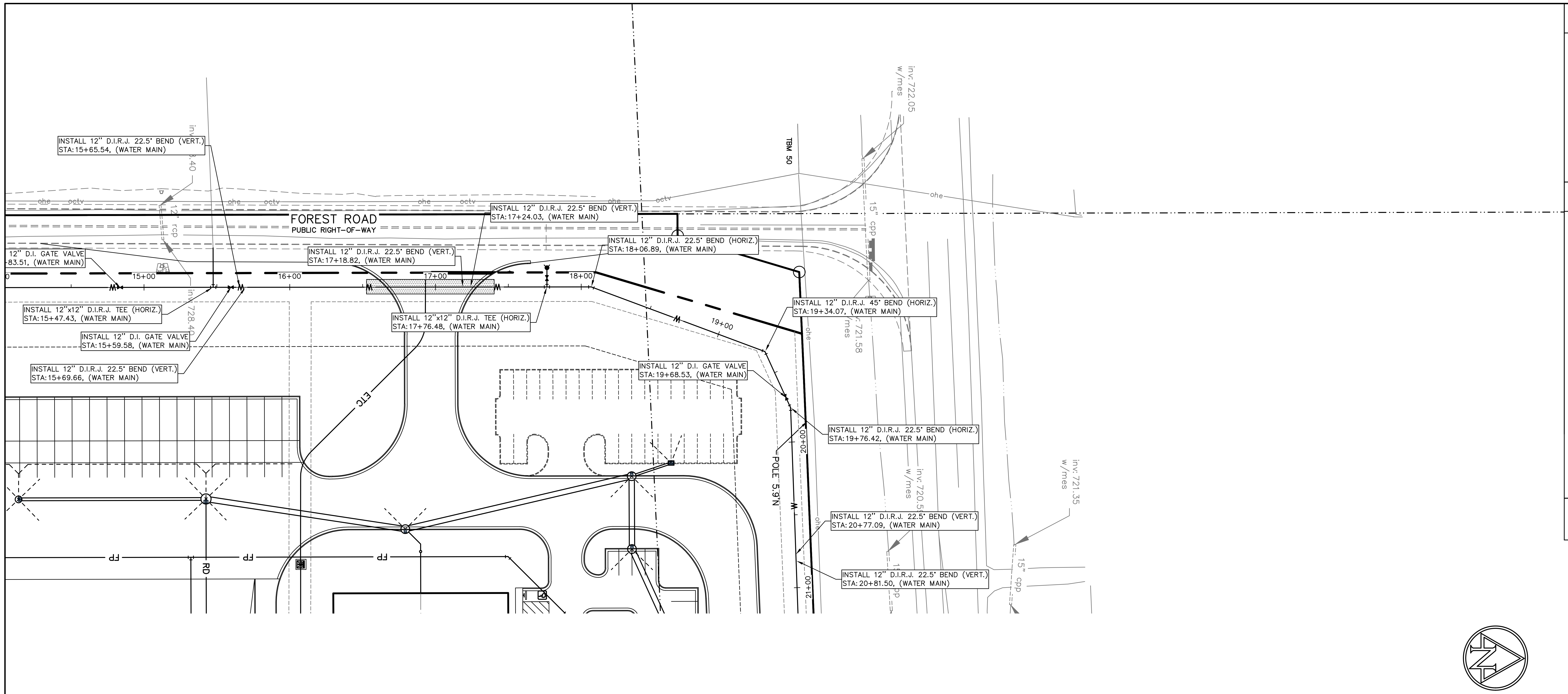
NO.	DESCRIPTION	DATE

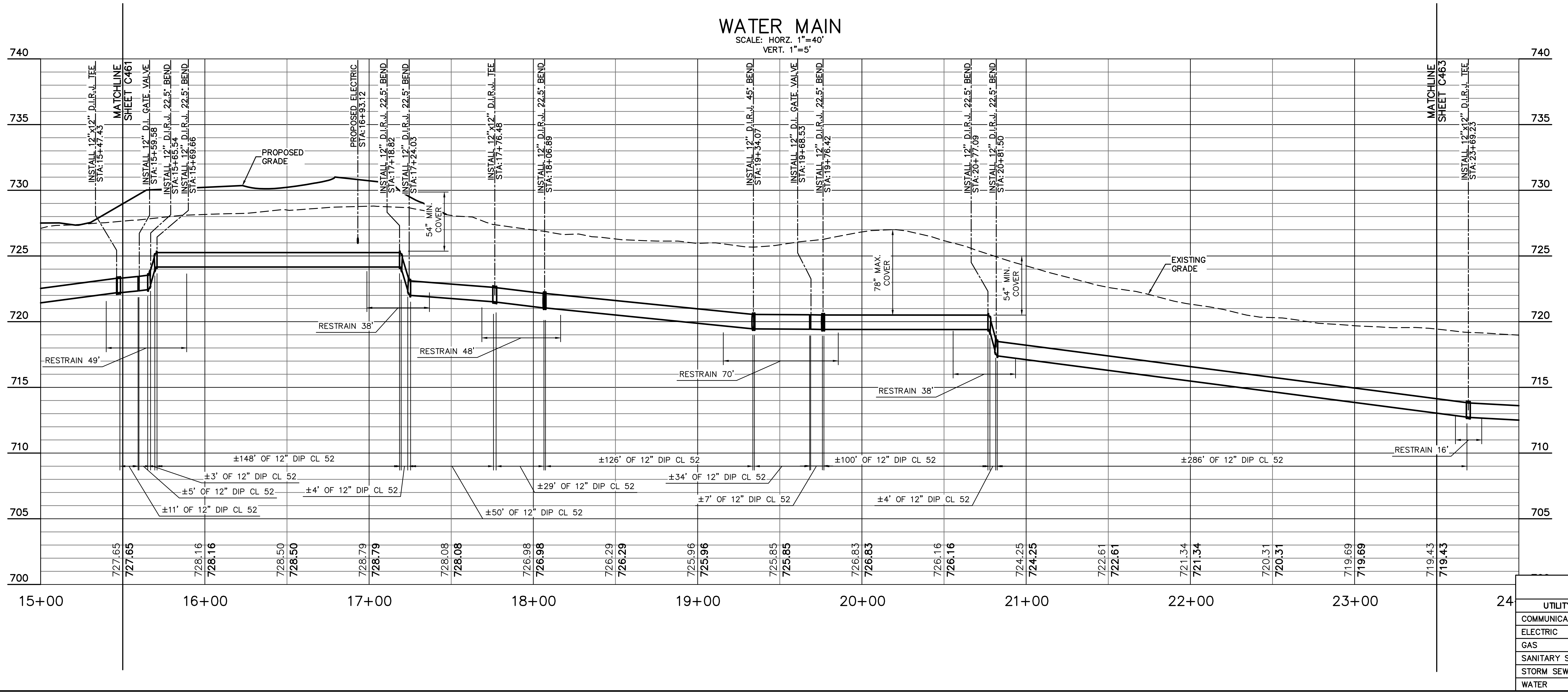
Project Number 2019.02798

WATER MAIN PLAN & PROFILE

C461

PLOT DATE: 12/3/2020 12:00 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C460.WATER PP.dwg


INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:15+65.54, (WATER MAIN)
FOREST ROAD
PUBLIC RIGHT-OF-WAY
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:17+24.03, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (HORIZ.) STA:18+06.89, (WATER MAIN)
12" D.I. GATE VALVE -83.51, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:17+18.82, (WATER MAIN)
15+00
16+00
17+00
18+00
19+00
20+00
21+00
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA:15+47.43, (WATER MAIN)
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA:17+76.48, (WATER MAIN)
INSTALL 12" D.I.R.J. 45° BEND (HORIZ.) STA:19+34.07, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA:15+59.58, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:15+69.66, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA:19+68.53, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (HORIZ.) STA:19+76.42, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:20+77.09, (WATER MAIN)
INSTALL 12" D.I.R.J. 22.5° BEND (VERT.) STA:20+81.50, (WATER MAIN)
ETC
POLE 5.9'N
TBM 50
inv. 722.05 w/mes
inv. 721.58 w/mes
inv. 720.5 w/mes
inv. 721.35 w/mes
inv. 728.40
12" rcp
15" cpp
ohe
octv
FP
RD


WATER MAIN
SCALE: HORZ. 1"=40'
VERT. 1"=5'
740
735
730
725
720
715
710
705
700
INSTALL 12"x12" D.I.R.J. TEE STA:15+47.43
MATCHLINE SHEET C461
INSTALL 12" D.I. GATE VALVE STA:15+59.58
INSTALL 12" D.I.R.J. 22.5° BEND STA:15+65.54
INSTALL 12" D.I.R.J. 22.5° BEND STA:15+69.66
PROPOSED GRADE
PROPOSED ELECTRIC STA:16+93.12
INSTALL 12" D.I.R.J. 22.5° BEND STA:17+18.82
INSTALL 12" D.I.R.J. 22.5° BEND STA:17+24.03
54" MIN. COVER
INSTALL 12"x12" D.I.R.J. TEE STA:17+76.48
INSTALL 12" D.I.R.J. 22.5° BEND STA:18+06.89
INSTALL 12" D.I.R.J. 45° BEND STA:19+34.07
INSTALL 12" D.I. GATE VALVE STA:19+68.53
INSTALL 12" D.I.R.J. 22.5° BEND STA:19+76.42
78" MAX. COVER
INSTALL 12" D.I.R.J. 22.5° BEND STA:20+77.09
INSTALL 12" D.I.R.J. 22.5° BEND STA:20+81.50
54" MIN. COVER
EXISTING GRADE
MATCHLINE SHEET C463
INSTALL 12"x12" D.I.R.J. TEE STA:23+69.23
RESTRAIN 49'
RESTRAIN 38'
RESTRAIN 48'
RESTRAIN 70'
RESTRAIN 38'
RESTRAIN 16'
±148' OF 12" DIP CL 52
±3' OF 12" DIP CL 52
±5' OF 12" DIP CL 52
±11' OF 12" DIP CL 52
±4' OF 12" DIP CL 52
±126' OF 12" DIP CL 52
±29' OF 12" DIP CL 52
±50' OF 12" DIP CL 52
±34' OF 12" DIP CL 52
±7' OF 12" DIP CL 52
±100' OF 12" DIP CL 52
±4' OF 12" DIP CL 52
±286' OF 12" DIP CL 52
727.65 727.65
728.16 728.16
728.50 728.50
728.79 728.79
728.08 728.08
726.98 726.98
726.29 726.29
725.96 725.96
725.85 725.85
726.83 726.83
726.16 726.16
724.25 724.25
722.61 722.61
721.34 721.34
720.31 720.31
719.69 719.69
719.43 719.43
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24

EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
	TELEPHONE PEDESTAL
INLET	TRANSFORMER
MAILBOX	TREE
PINE	VENT
POST	WELL
POWER POLE	
RIGHT OF WAY MONUMENT	
SIGN	

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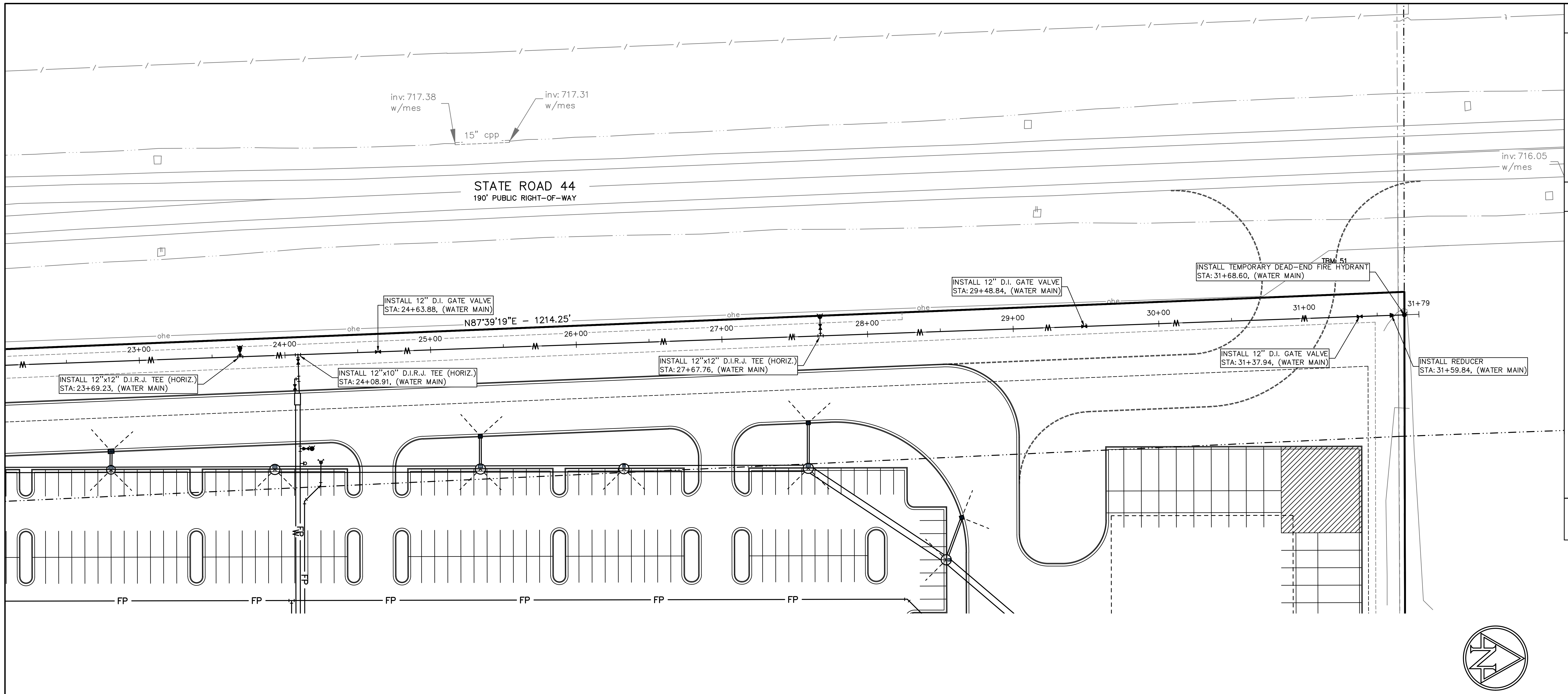
NO.	DESCRIPTION	DATE

Project Number 2019.02798

WATER MAIN PLAN & PROFILE

C462

DRAWING FILE: p:\2019\02798\d_drawings\Civil\construction documents\2019.02798 CE C460 WATER PP.dwg
EDITED BY: MIRVING
EDIT DATE: 12/2/2020
PLOT DATE: 12/2/2020 12:01 PM
PLOT SCALE: 1:2.5849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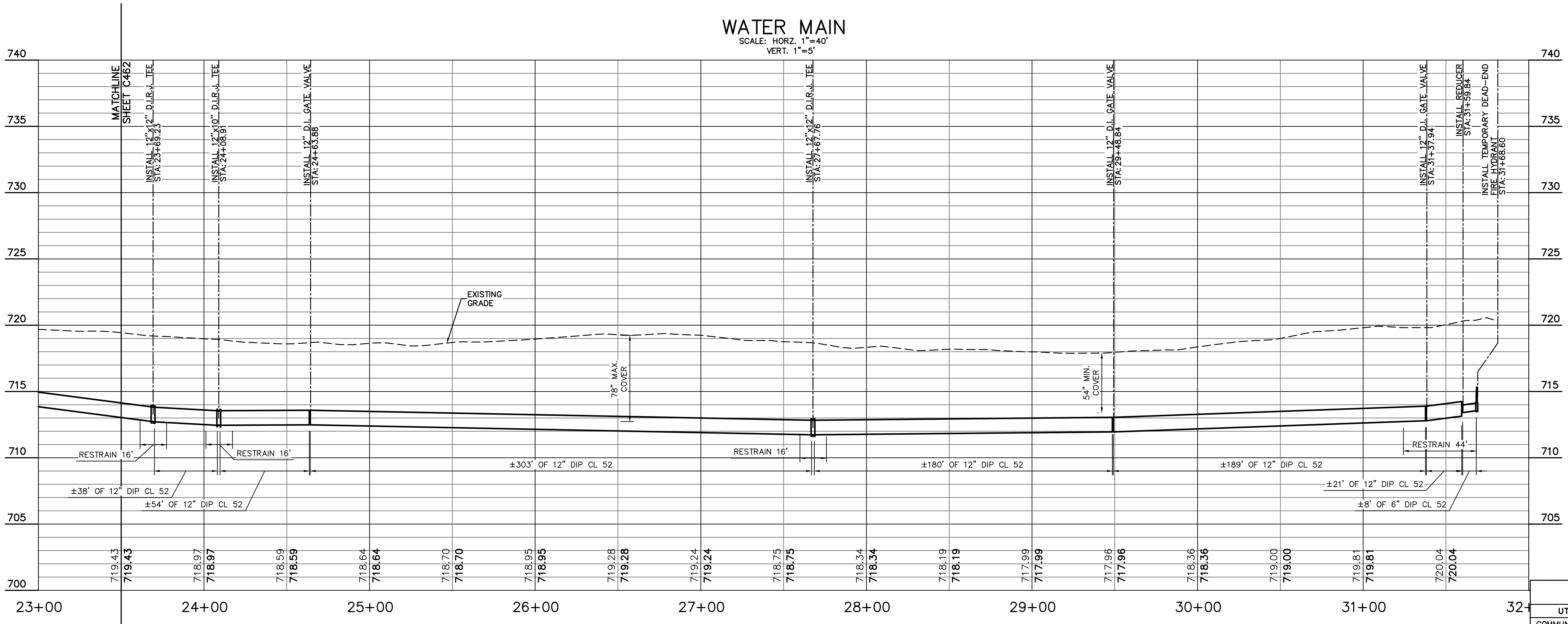
w/mes
inv: 717.31
w/mes
15" cpp
STATE ROAD 44
190' PUBLIC RIGHT-OF-WAY
inv: 716.05
w/mes
N87°39'19"E – 1214.25'
ohe
23+00
24+00
25+00
26+00
27+00
28+00
29+00
30+00
31+00
31+79
TBM 51
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA: 23+69.23, (WATER MAIN)
INSTALL 12"x10" D.I.R.J. TEE (HORIZ.) STA: 24+08.91, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA: 24+63.88, (WATER MAIN)
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.) STA: 27+67.76, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA: 29+48.84, (WATER MAIN)
INSTALL 12" D.I. GATE VALVE STA: 31+37.94, (WATER MAIN)
INSTALL REDUCER STA: 31+59.84, (WATER MAIN)
INSTALL TEMPORARY DEAD-END FIRE HYDRANT STA: 31+68.60, (WATER MAIN)
FP

WATER MAIN

SCALE: HORZ. 1"=40'
VERT. 1"=5'


740
735
730
725
720
715
710
705
700
MATCHLINE SHEET C462
INSTALL 12"x12" D.I.R.J. TEE STA: 23+69.23
INSTALL 12"x10" D.I.R.J. TEE STA: 24+08.91
INSTALL 12" D.I. GATE VALVE STA: 24+63.88
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INSTALL REDUCER STA: 31+59.84
INSTALL TEMPORARY DEAD-END FIRE HYDRANT STA: 31+68.60
EXISTING GRADE
78" MAX. COVER
54" MIN. COVER
RESTRAIN 16'
RESTRAIN 16'
RESTRAIN 16'
RESTRAIN 44'
±38' OF 12" DIP CL 52
±54' OF 12" DIP CL 52
±303' OF 12" DIP CL 52
±180' OF 12" DIP CL 52
±189' OF 12" DIP CL 52
±21' OF 12" DIP CL 52
±8' OF 6" DIP CL 52
719.43
718.97
718.59
718.64
718.70
718.95
719.28
719.24
718.75
718.34
718.19
717.99
717.96
718.36
719.00
719.81
720.04
23+00
24+00
25+00
26+00
27+00
28+00
29+00
30+00
31+00
32+

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- ● POST
- POWER POLE
- ⊠ RIGHT OF WAY MONUMENT
- SIGN
- ○ STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- ⊕ TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- ⊠ TRANSFORMER
- TREE
- VENT
- Ⓦ WELL

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C463

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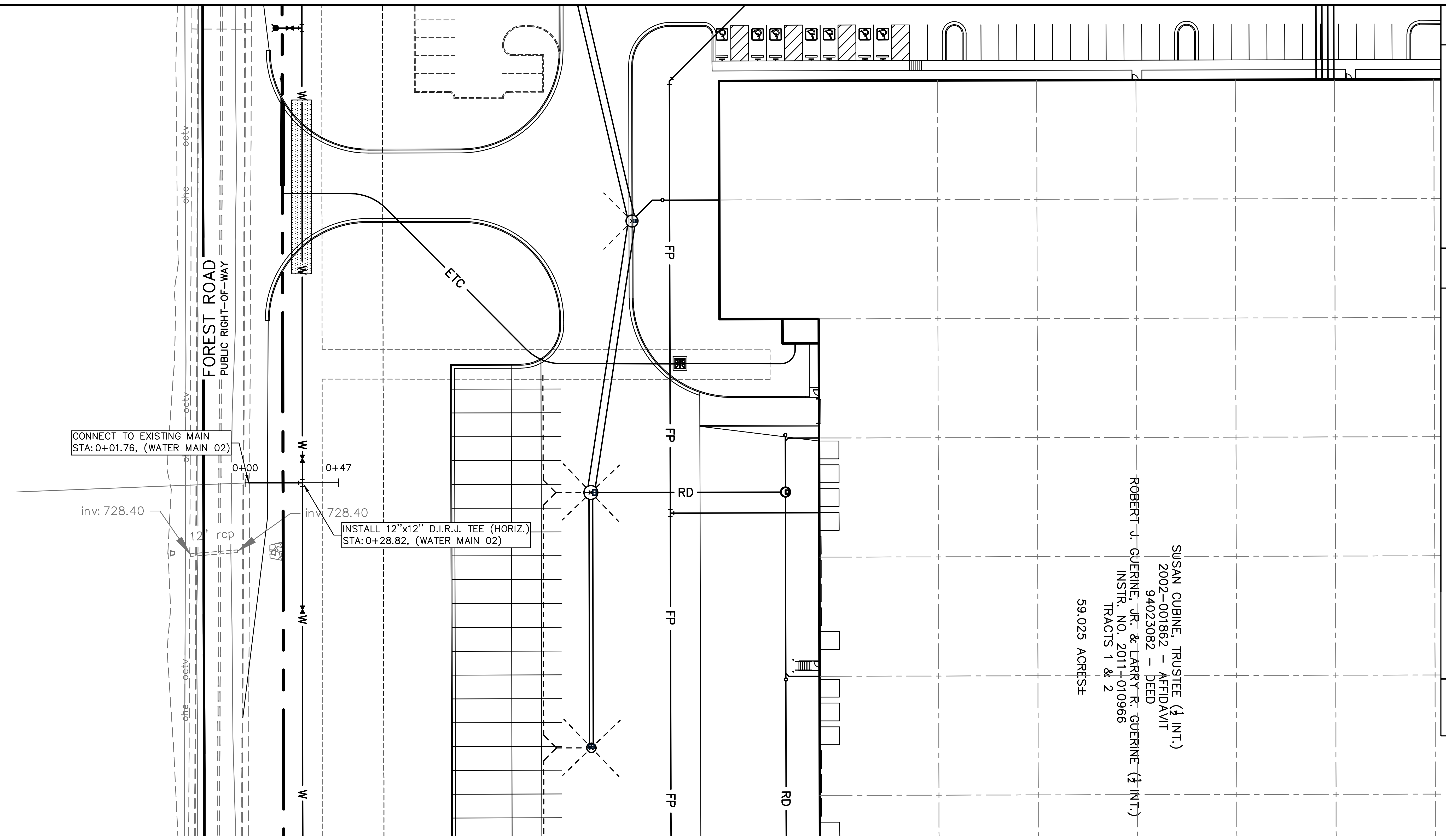
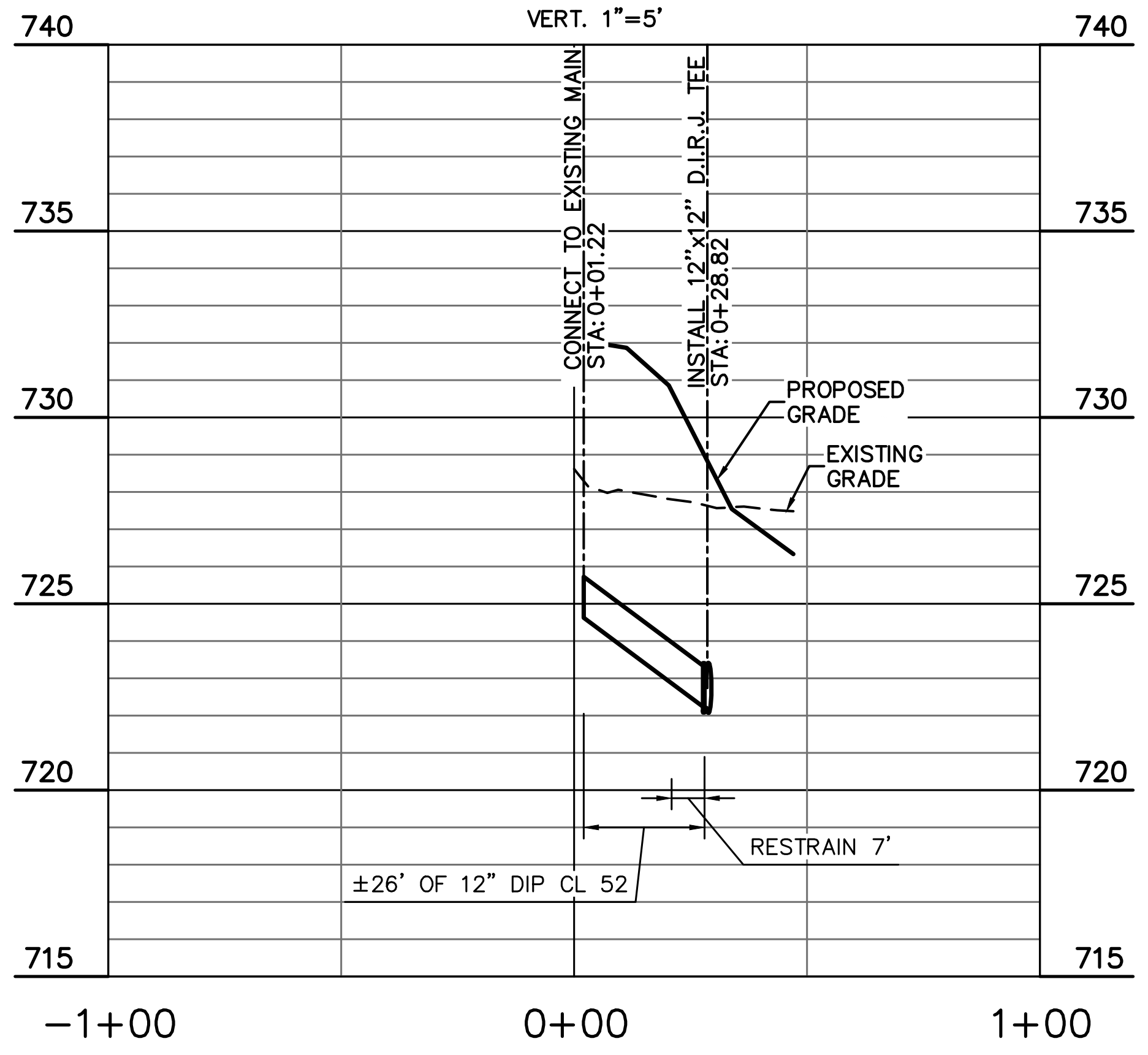
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C460.WATER PP.dwg


FOREST ROAD
PUBLIC RIGHT-OF-WAY
CONNECT TO EXISTING MAIN
STA: 0+01.76, (WATER MAIN 02)
0+00
0+47
INSTALL 12"x12" D.I.R.J. TEE (HORIZ.)
STA: 0+28.82, (WATER MAIN 02)
inv: 728.40
inv: 728.40
12" rcp
octv
ohe
W
ETC
FP
RD
SUSAN CUBINE, TRUSTEE (½ INT.)
2002-001862 – AFFIDAVIT
94023082 – DEED
ROBERT J. GUERINE, JR. & LARRY R. GUERINE (½ INT.)
INSTR. NO. 2011-010966
TRACTS 1 & 2
59.025 ACRES±

WATER MAIN 02

SCALE: HORZ. 1"=40'
VERT. 1"=5'


740
735
730
725
720
715
-1+00
0+00
1+00
CONNECT TO EXISTING MAIN
STA: 0+01.22
INSTALL 12"x12" D.I.R.J. TEE
STA: 0+28.82
PROPOSED GRADE
EXISTING GRADE
RESTRAIN 7'
±26' OF 12" DIP CL 52

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
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- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
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- TRANSFORMER
- TREE
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CALL TOLL FREE
"811" OR 1-800-382-5544
– INDIANA UNDERGROUND –

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256
317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

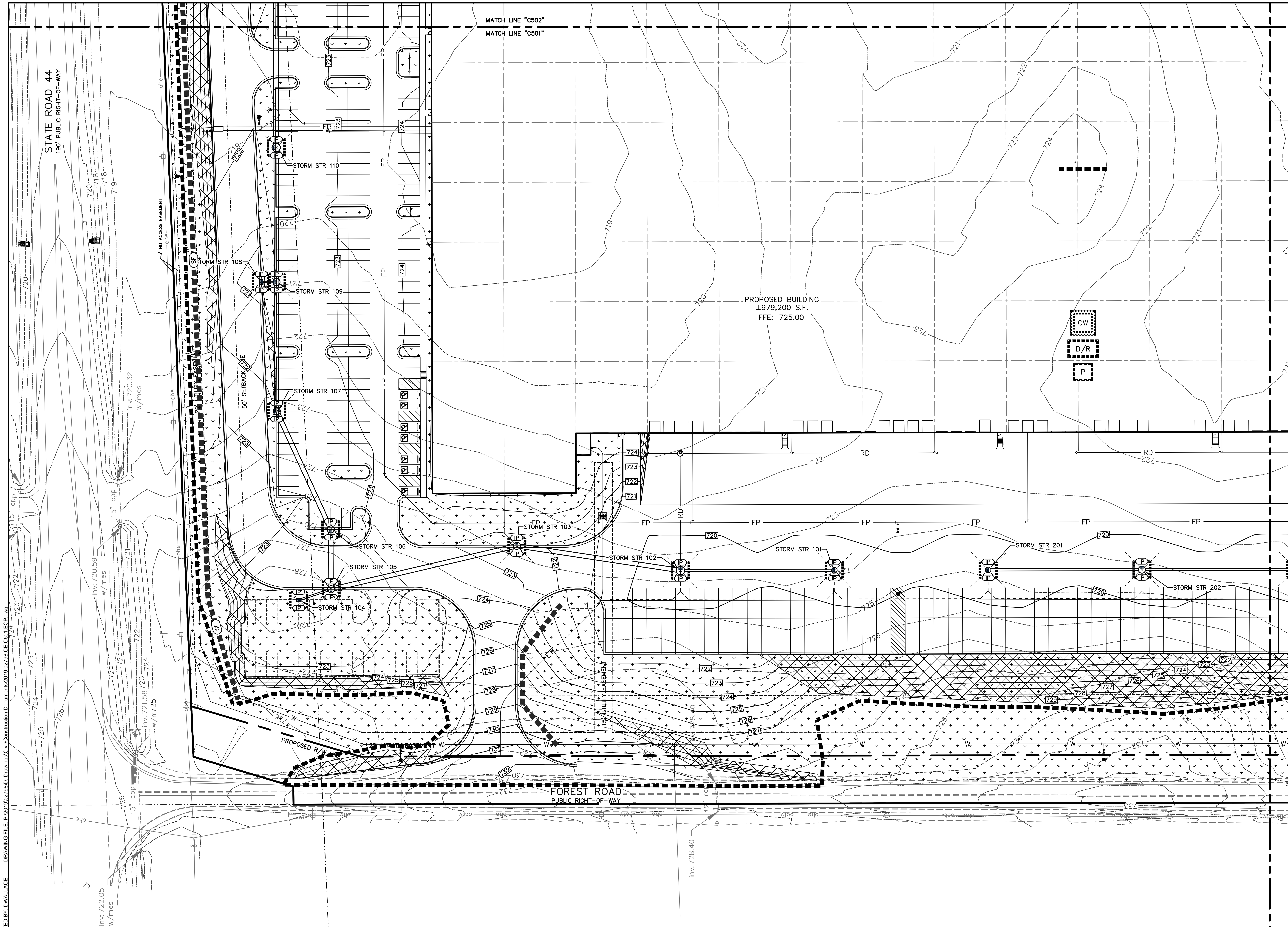
NO.	DESCRIPTION	DATE

Project Number 2019.02798

WATER MAIN PLAN & PROFILE

C464

PLOT DATE: 12/3/2020 12:01 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: p:\2019\02798\d. drawings\Civil\construction documents\2019.02798.CE.C460.WATER PP.dwg


MATCH LINE "C502"
MATCH LINE "C501"
STATE ROAD 44
190' PUBLIC RIGHT-OF-WAY
5' NO ACCESS EASEMENT
50' SETBACK
STORM STR 110
STORM STR 109
STORM STR 108
STORM STR 107
STORM STR 106
STORM STR 105
STORM STR 104
STORM STR 103
STORM STR 102
STORM STR 101
STORM STR 201
STORM STR 202
PROPOSED BUILDING
±979,200 S.F.
FFE: 725.00
CW
D/R
P
FP
RD
15' UTILITY EASEMENT
PROPOSED R/W
FOREST ROAD
PUBLIC RIGHT-OF-WAY
inv. 720.32 w/mes
inv. 720.59 w/mes
inv. 721.58 w/n725
inv. 722.05 w/mes
inv. 728.40
15" cpp
SCALE: 1"=40'
0' 40' 80'
MATCH LINE "C501"
MATCH LINE "C504"

EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

EROSION CONTROL LEGEND

SF	SILT FENCE
	CONSTRUCTION LIMITS
IP	INLET PROTECTION
	AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
	EROSION CONTROL BLANKET WITH SEEDING
	GRAVEL CONSTRUCTION ENTRANCE
	STAGING AREA
CW	CONCRETE WASHOUT
D/R	DUMPSTER / RECYCLING AREA
P	PORT-O-LET
N.O.I.	N.O.I. SIGN POSTING
	OUTLET PROTECTION
	ROCK DONUT
	ROCK CHECK DAM

GENERAL NOTES:

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– INDIANA UNDERGROUND –

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GAS	VECTREN	JON EASTHAM	(765) 287-2119
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STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

PLOT DATE: 12/3/2020 1:07 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: DWALLACE
DRAWING FILE: P:\2019\02798\D_Drawings\Civil\Construction Documents\2019.02798 CE C501 ECP.dwg

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256
317.567.6100

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www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLAS
No. PE11800804

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

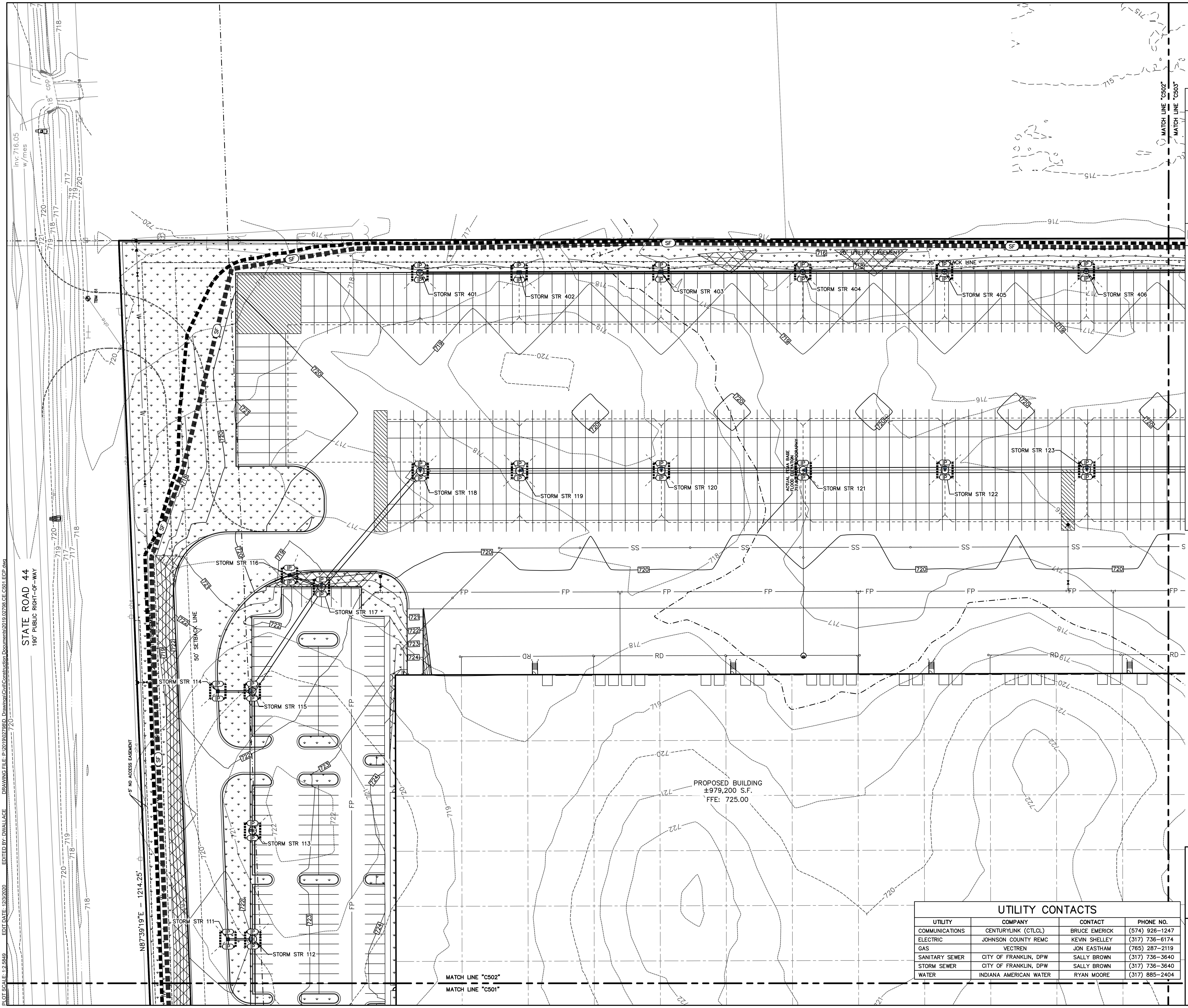
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

EROSION CONTROL PLAN

C501


STATE ROAD 44
190' PUBLIC RIGHT-OF-WAY
MATCH LINE "C502"
MATCH LINE "C503"
MATCH LINE "C502"
MATCH LINE "C501"
STORM STR 401
STORM STR 402
STORM STR 403
STORM STR 404
STORM STR 405
STORM STR 406
STORM STR 118
STORM STR 119
STORM STR 120
STORM STR 121
STORM STR 122
STORM STR 123
STORM STR 116
STORM STR 117
STORM STR 114
STORM STR 115
STORM STR 113
STORM STR 111
STORM STR 112
25' UTILITY EASEMENT
25' BACK LINE
50' SETBACK LINE
5' NO ACCESS EASEMENT
N87°39'19"E - 1214.25'
PROPOSED BUILDING
±979,200 S.F.
FFE: 725.00
SF
IP
SS
FP
RD
718
719
720
721
722
723
724
716
717
715

SCALE: 1"=40'

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

EROSION CONTROL LEGEND

SF	SILT FENCE
▬ ▬ ▬	CONSTRUCTION LIMITS
IP	INLET PROTECTION
▨	AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
▨	EROSION CONTROL BLANKET WITH SEEDING
▨	GRAVEL CONSTRUCTION ENTRANCE
▨	STAGING AREA
CW	CONCRETE WASHOUT
D/R	DUMPSTER / RECYCLING AREA
P	PORT-O-LET
N.O.I.	N.O.I. SIGN POSTING
●	OUTLET PROTECTION
●	ROCK DONUT
▨	ROCK CHECK DAM

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WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

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TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLAS
REGISTERED
No. PE1[illegible]
STATE OF INDIANA
PROFESSIONAL ENGINEER

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

EROSION CONTROL PLAN

C502

PLOT DATE: 12/3/2020 1:07 PM EDIT DATE: 12/3/2020 EDITED BY: DWALLACE DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C501.ECP.dwg
PLOT SCALE: 1:2.5849

UTILITY CONTACTS

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COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926–1247
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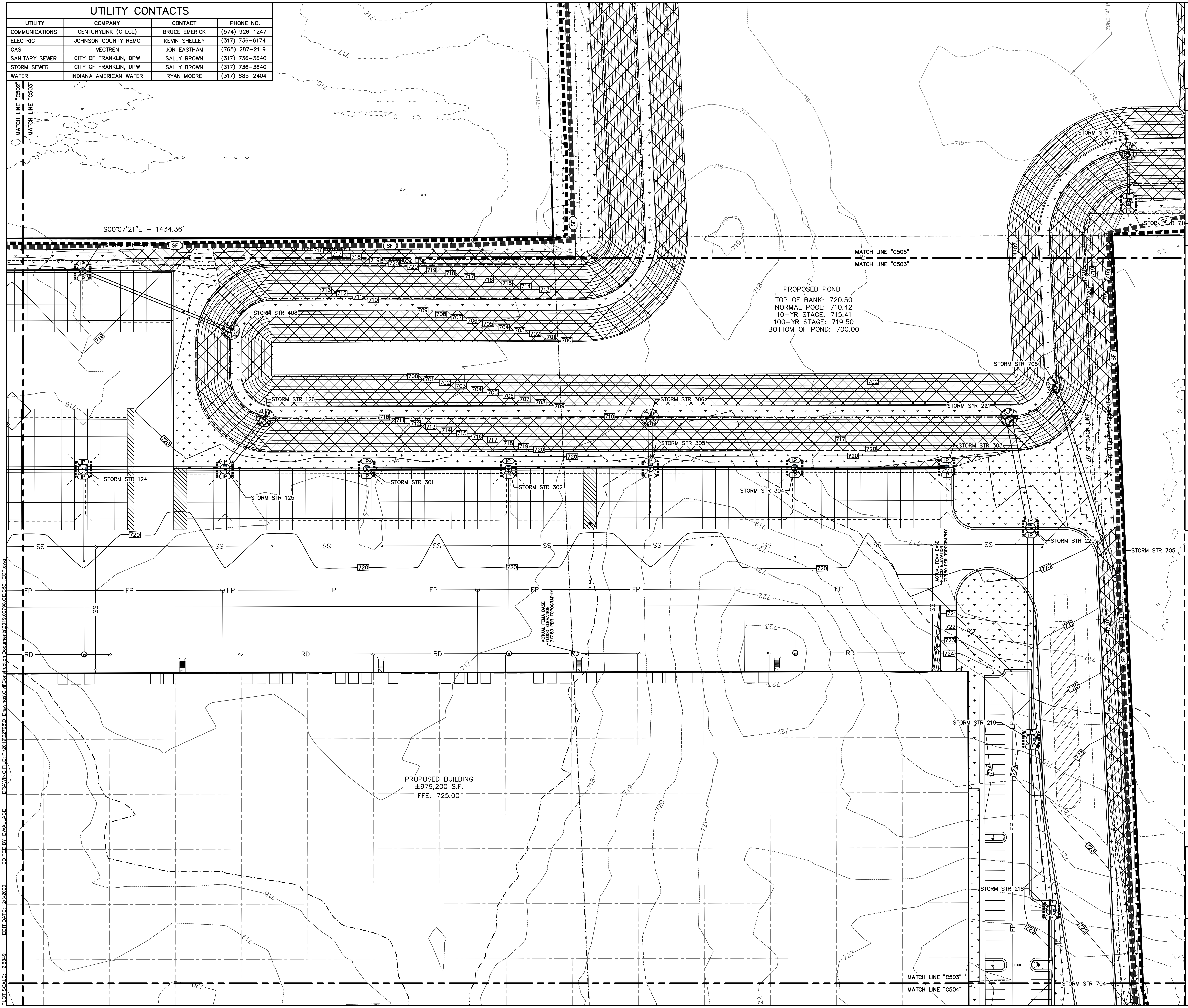
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MATCH LINE "C503"
S00°07'21"E – 1434.36'
MATCH LINE "C505"
MATCH LINE "C503"
PROPOSED POND
TOP OF BANK: 720.50
NORMAL POOL: 710.42
10–YR STAGE: 715.41
100–YR STAGE: 719.50
BOTTOM OF POND: 700.00
STORM STR 408
STORM STR 126
STORM STR 306
STORM STR 305
STORM STR 221
STORM STR 303
STORM STR 706
STORM STR 711
STORM STR 124
STORM STR 125
STORM STR 301
STORM STR 302
STORM STR 304
STORM STR 220
STORM STR 705
STORM STR 219
STORM STR 218
STORM STR 704
25' SETBACK LINE
ACTUAL FEMA BASE FLOOD ELEVATION 717.50 PER TOPOGRAPHY
PROPOSED BUILDING
±979,200 S.F.
FFE: 725.00
MATCH LINE "C503"
MATCH LINE "C504"
SF
IP
SS
FP
RD

SCALE: 1"=40'

0' 40' 80'

EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

EROSION CONTROL LEGEND

SF	SILT FENCE
■ ■ ■ ■	CONSTRUCTION LIMITS
IP	INLET PROTECTION
▨	AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
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▨	GRAVEL CONSTRUCTION ENTRANCE
▨	STAGING AREA
CW	CONCRETE WASHOUT
D/R	DUMPSTER / RECYCLING AREA
P	PORT–O–LET
N.O.I.	N.O.I. SIGN POSTING
●	OUTLET PROTECTION
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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLASH
PE11800804
APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

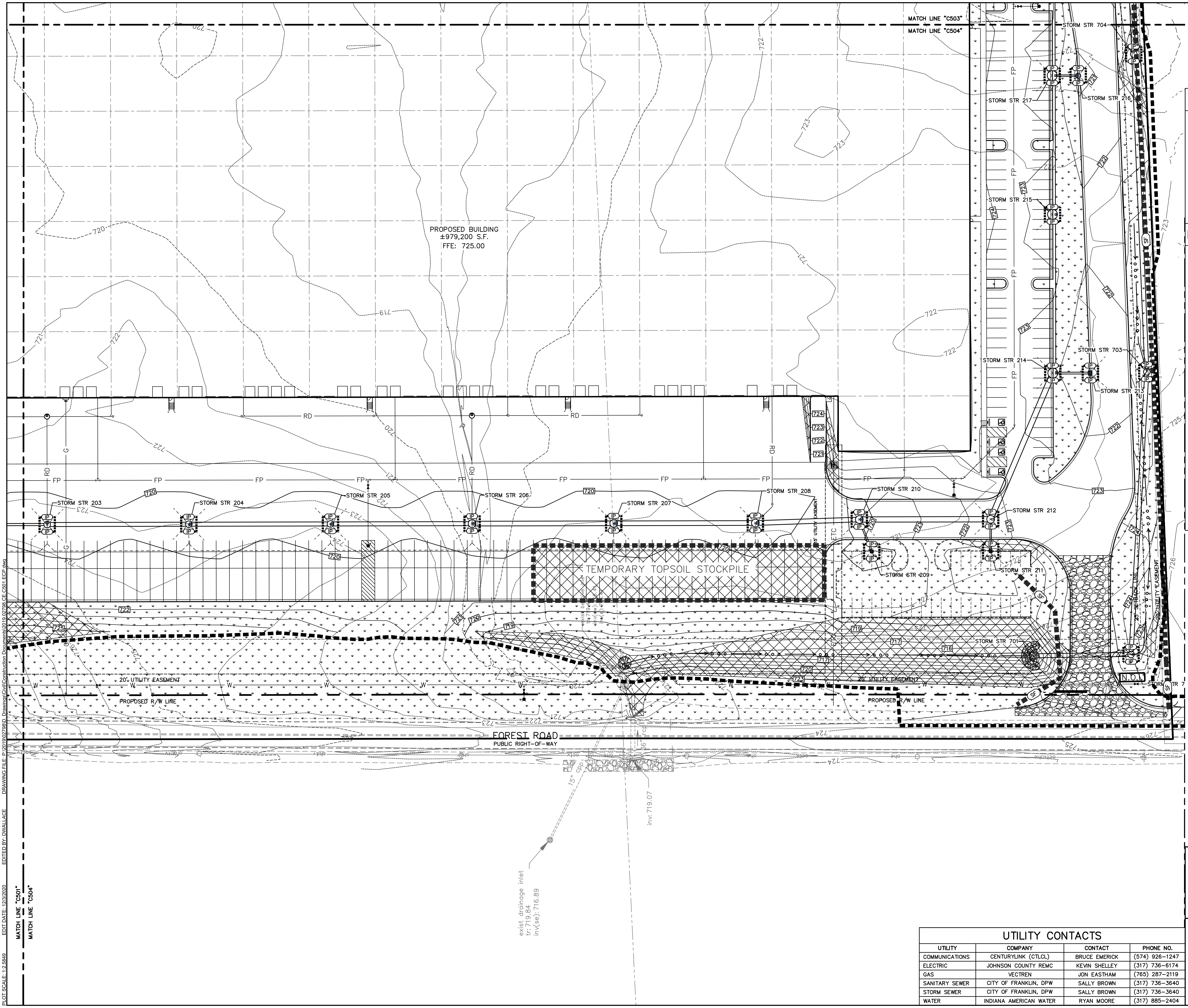
NO.	DESCRIPTION	DATE

Project Number 2019.02798

EROSION CONTROL PLAN

C503

PLOT DATE: 12/3/2020 1:08 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: DWALLACE
DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C501.ECP.dwg


MATCH LINE "C503"
MATCH LINE "C504"
MATCH LINE "C501"
MATCH LINE "C504"
PROPOSED BUILDING
±979,200 S.F.
FFE: 725.00
STORM STR 704
STORM STR 217
STORM STR 216
STORM STR 215
STORM STR 214
STORM STR 703
STORM STR 213
STORM STR 203
STORM STR 204
STORM STR 205
STORM STR 206
STORM STR 207
STORM STR 208
STORM STR 210
STORM STR 212
STORM STR 209
STORM STR 211
STORM STR 701
TEMPORARY TOPSOIL STOCKPILE
20' UTILITY EASEMENT
PROPOSED R/W LINE
FOREST ROAD
PUBLIC RIGHT-OF-WAY
N.O.I.
SF
IP
RD
FP
G
W
ETC
720
721
722
723
724
725
726
717
716
719
inv: 719.07
exist drainage inlet
tr: 719.84
inv(se): 716.89
15" cpp
SCALE: 1"=40'
0'
40'
80'

PLOT DATE: 12/3/2020 1:08 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: DWALLACE
DRAWING FILE: P:\2019\02798\D_Drawings\Civil\Construction Documents\2019.02798.CE.C501.ECP.dwg

EXISTING LEGEND

- BEEHIVE INLET
- COMBINATION POLE
- ELECTRIC METER BOX
- GAS MARKER SIGN
- GUY WIRE
- HOSE BIB
- INLET
- MAILBOX
- PINE
- POST
- POWER POLE
- RIGHT OF WAY MONUMENT
- SIGN
- STAND PIPE
- STUMP
- SUB SURFACE DRAIN
- TEMPORARY BENCH MARK
- TEST HOLE
- TELEPHONE MARKER SIGN
- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

EROSION CONTROL LEGEND

SF	SILT FENCE
▬ ▬ ▬	CONSTRUCTION LIMITS
IP	INLET PROTECTION
↓ ↓ ↓	AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
▨	EROSION CONTROL BLANKET WITH SEEDING
▨	GRAVEL CONSTRUCTION ENTRANCE
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CW	CONCRETE WASHOUT
D/R	DUMPSTER / RECYCLING AREA
P	PORT-O-LET
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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

JUSTIN ERIC OLAS
REGISTERED
PROFESSIONAL ENGINEER
STATE OF INDIANA

Justin Olah

CERTIFIED BY

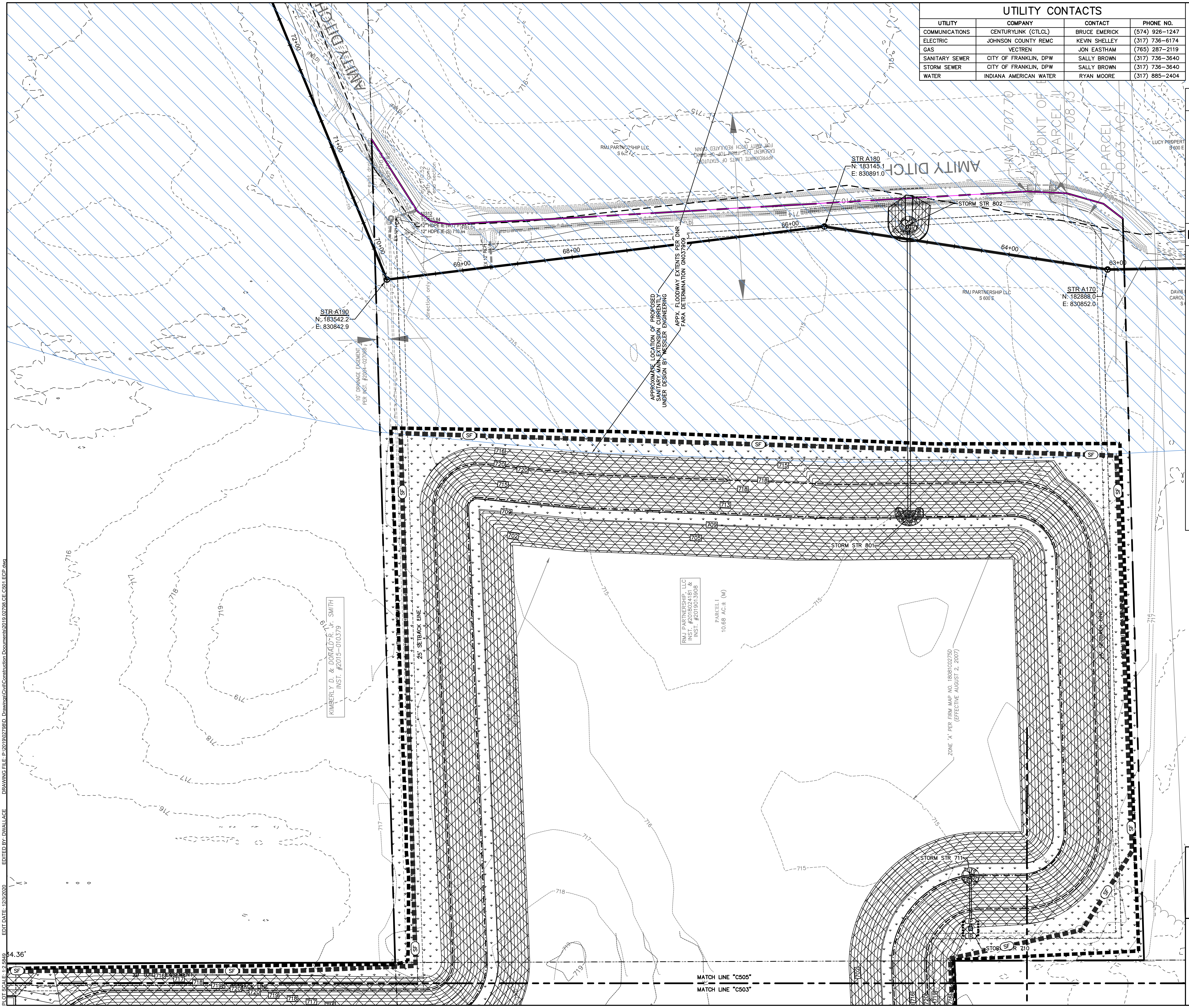
ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

EROSION CONTROL PLAN

C504


AMITY DITCH
AMITY DITCH
72+00
71+00
70+00
69+00
68+00
66+00
64+00
63+00
STR A190
N: 183542.2
E: 830842.9
STR A180
N: 183145.1
E: 830891.0
STR A170
N: 182888.0
E: 830852.0
STORM STR 802
STORM STR 801
STORM STR 711
STORM STR 710
APPROXIMATE LOCATION OF PROPOSED SANITARY MAIN EXTENSION CURRENTLY UNDER DESIGN BY WESSLER ENGINEERING
APPX. FLOODWAY EXTENTS PER DNR FARA DETERMINATION GN037909
RMJ PARTNERSHIP LLC
RMJ PARTNERSHIP, LLC INST. #2018024181 & INST. #2019013908
PARCEL I 10.68 AC.± (M)
KIMBERLY D. & DONALD R. Jr. SMITH INST. #2015-010379
25' SETBACK LINE
ZONE 'A' PER FIRM MAP NO. 18081C0275D (EFFECTIVE AUGUST 2, 2007)
10' DRAINAGE EASEMENT
LUCY PROPERTY
DAVIS CAROL
SF
716
720
715
718
713
709
705
702
717
719
MATCH LINE "C505"
MATCH LINE "C503"
34.36'

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0' 40' 80'

SCALE: 1"=40'

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- ELECTRIC METER BOX
- GAS MARKER SIGN
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- TELEPHONE PEDESTAL
- TRANSFORMER
- TREE
- VENT
- WELL

EROSION CONTROL LEGEND

SF	SILT FENCE
■ ■ ■ ■	CONSTRUCTION LIMITS
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▨	EROSION CONTROL BLANKET WITH SEEDING
▨	GRAVEL CONSTRUCTION ENTRANCE
▨	STAGING AREA
CW	CONCRETE WASHOUT
D/R	DUMPSTER / RECYCLING AREA
P	PORT–O–LET
N.O.I.	N.O.I. SIGN POSTING
●	OUTLET PROTECTION
●	ROCK DONUT
▨	ROCK CHECK DAM

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1–800–382–5544
– INDIANA UNDERGROUND –

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

EROSION CONTROL PLAN

C505

PLOT DATE: 12/3/2020 1:08 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/3/2020
EDITED BY: DWALLACE
DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C501.ECP.dwg

SITE NAME

The area scheduled for construction is known as "I–65 South Logistics Center" (hereinafter referred to as the "Project").

PROJECT LOCATION

The property is located at the southeast corner of State Road 44 and Forest Road in Franklin, Indiana, at a latitude of 39°28'52" N and a longitude of 86°00'02" W.

OWNER'S INFORMATION

Name:	GDI Construction
Address:	9775 Crosspoint Boulevard, Suite 105 Indianapolis, IN 46256
Representative:	Phil Gross
Title:	Preconstruction Manager
Telephone:	(317) 567–6106

OPERATOR'S INFORMATION

Name:	GDI Construction
Address:	9775 Crosspoint Boulevard, Suite 105 Indianapolis, IN 46256
Representative:	Phil Gross
Title:	Preconstruction Manager
Telephone:	(317) 567–6106

NOTICE OF INTENT

All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on–site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements:

a) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.
b) The party has day–to–day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A2 11" x 17" PLAT

Refer to the Site Plan.

A3 PROJECT NARRATIVE

This project consists of the development of approximately 69 acres in Franklin, IN. The development includes the construction of one (1) industrial warehouse facility of 979,200 sf with associated infrastructure including, but not limited to the following activities: removal and stockpiling of topsoil, installation of sanitary sewers and laterals, water laterals, and other utilities, and installation of a wet detention pond. The site shall be paved and landscaped.

A4 VICINITY MAP

Refer to Title Sheet.

A5 LEGAL DESCRIPTION OF THE PROJECT SITE

Refer to Sheet C100 Overall Existing Topography and Demolition Plan

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS

The site will not be subdivided; therefore, there are no individual lots on the property. The proposed site improvements are shown on the included plans.

A7 HYDROLOGIC UNIT CODE (HUC)

05120204090070

A8 STATE AND FEDERAL WATER QUALITY PERMITS

IDEM Rule 5

A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE

Stormwater drainage from the site will be conveyed by a proposed storm sewer to a proposed wet detention pond located on the east side of the site. The wet detention pond will discharge to Amity Ditch.

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE

No wetlands, lakes or watercourses have been identified on the site that may be impacted by stormwater discharges as a result of the proposed construction activities.

A11 IDENTIFICATION OF ALL RECEIVING WATERS

Amity Ditch is the ultimate receiving water for the project area.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER

There are no locations on site where surface water may be discharged into ground water.

A13 100–YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES

The lot is located in an special flood hazard zone Flood Zone "A" (areas determined to be inside the 0.2 percent annual chance floodplain) as indicated on the Johnson County, Indiana Flood Insurance Rate Map 18081C0232D and 18081C0275D dated August 2, 2007.

A14 PRE–CONSTRUCTION AND POST–CONSTRUCTION ESTIMATE OF PEAK DISCHARGE

Pre–construction 10–year discharge:	13.51 cfs
Post–construction 10–year discharge:	6.29 cfs

A15 ADJACENT LAND USE

North:	Agriculture
East:	Agriculture
South:	Agriculture
West:	Agriculture

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER

Approximate areas of existing vegetative cover are as shown on the Existing Topography Plan.

A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS

The Natural Resources Conservation Service (NRCS) Web Soil Survey of Johnson County, Indiana, indicates Brookston silty clay loam, Crosby silt loam, and Miami silt loam are located on the site.

The on–site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS

Locations of stormwater systems: Refer to the Utility Plan or Storm Sewer Plan and Profiles
Size of storm sewer: Refer to the Utility Plan or Storm Sewer Plan and Profiles
Details of storm inlets and manholes: Refer to Site Details

A20 PLANS FOR ANY OFF–SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT

Offsite construction activity will include utility installation.

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL

Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.

A22 EXISTING SITE TOPOGRAPHY

Refer to the Existing Topography Plan.

A23 PROPOSED FINAL SITE TOPOGRAPHY

Refer to the Grading Plan.

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

The following potential pollutant sources may be associated with construction activities on site:

1. Material storage areas (more specifically described below)
2. Construction waste material
3. Fuel storage areas and fueling stations
4. Exposed soils
5. Leaking vehicles and equipment
6. Sanitary waste from temporary toilet facilities
7. Litter
8. Windblown dust
9. Soil tracking off site from construction equipment

The following construction materials may be staged or stored on site at various points during development of the site:

1. Structural fill
2. Pavement Base Stone
3. HDPE, PVC, RCP or Ductile Iron pipe
4. Precast concrete, HDPE or PVC drainage and sanitary structures
5. Rock rip–rap

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND–DISTURBING ACTIVITIES

Preconstruction Activity
- The exact locations of all existing utilities within the project limits are to be verified prior to construction.
- Schedule pre–construction meeting with local stormwater authority.
- Install protection fencing for existing trees to remain in place within the project limits.
- Install protection fencing for existing karst in areas adjacent to project limits.

Construction Site Access
- Install gravel construction entrance.
- Post the NOI at the construction entrance.
- Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas and stabilize construction routes.

Perimeter Controls
- Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed.

Initial Land Clearing and Grading Activities
- Add protection measures to existing inlets.
- Strip the topsoil and stabilize the topsoil stockpile.

Secondary Land Grading Activities
- Begin site grading/construction of detention basins and stabilize any soil stockpiles that will be left dormant for more than 10 days.
- Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams and stabilize slopes with erosion control blankets.
- Install storm sewer system and install inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets.

Surface Stabilization
- Apply temporary seeding and stabilize slopes in areas where rough grading has been completed.
- Apply permanent seeding and stabilize slopes in areas where final grading has been completed.

Building Construction
- Prior to building construction install stone surface for paved areas.
- Building pads left dormant for more than 10 days, must be temporarily seeded.
- Start building construction. Install staging area for building materials and stabilize.

Final Shaping/Landscaping
- Utilize topsoil salvage in applicable areas and apply permanent seeding.
- Apply permanent seeding the perimeter of the site.
- Complete utility installation, curbs, paving and building construction.
- Install landscaping plant material and stabilize all disturbed areas.
- Remove all erosion and sediment control practices when areas have a uniform grass cover.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS

The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures.

B7 RUNOFF CONTROL MEASURES

Runoff control measures will include silt fence and rock donuts.

B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS

Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS

Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more.
Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS

A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
C. Slow–release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water–insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent
D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
G. Install erosion control blankets as indicated on the plan.
H. Protect seeded areas against erosion by spreading clean, seed–free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1–1/2 inches loose measurements over seeded areas.
I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN

Solid Waste Disposal
No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste
Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on–site location of the facility.

Dust Control/Off–Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off–site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Sanitary/Septic
Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on–site location of said facilities.

Water Source
Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas
Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage
Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on–site location of the storage areas.

Material Handling and Spill Prevention
Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1–800–424–8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout
All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan
Minor – Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean–up spill material and any subsequently contaminated soil and dispose of properly.

Semi–Significant Spills – Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean–up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if the spill could be a safety issue.
- Contact supervisors and designated site inspectors immediately.
- Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills – More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazardous material spill.
- Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
  - •• Name, address and phone number of person making the spill report
  - •• The location of the spill
  - •• The time of the spill
  - •• Identification of the spilled substance
  - •• Approximate quantity of the substance that has been spilled or may be further spilled
  - •• The duration and source of the spill
  - •• Name and location of the damaged waters
  - •• Name of spill response organization
  - •• What measures were taken in the spill response
  - •• Other information that may be significant

Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency.

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

Inspection Schedule/Reporting
All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on–site reports may be requested by inspections conducted by the local governing authority.

Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off–site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off–site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections
All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re–anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one–half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather–related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re–graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one–half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re–graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built–up sediment will occur when the sediment reaches one–third the height of the fence.
8. Stabilized Construction Entrance: Periodic re–grading and top dressing with additional stone.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off–site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination
Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

Since the entire site is under a single ownership, there are not any individual building lots.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

The proposed land use is an industrial warehouse. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de–icing materials.

Pollutant Source: Building
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash dumpster
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Parking lot
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de–icing materials, paint fragments from parking stall stripes, concrete fragments, wind–blown litter from off–site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and landscape areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

The stormwater detention pond will remain in place as permanent features after construction is completed. The purpose of the these measures is to restrict stormwater discharges and provide a sediment removal function.

C3 DESCRIPTION OF PROPOSED POST–CONSTRUCTION STORMWATER QUALITY MEASURES

Wet Detention Pond
A wet detention pond detains storm water runoff long enough for contaminated sediments to settle and remain in the pond and allow the water in the pond to be displaced by the next rain event. The sedimentation process removes particulates, organic matter, and metals from the water while nutrients are removed through biological uptake. By capturing and retaining runoff, wet ponds control both storm water quality and quantity.

Good Housekeeping Measures
Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post–construction stormwater quality BMPs.

The proposed wet detention pond will be located on the east side of the site.

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST–CONSTRUCTION STORMWATER QUALITY MEASURES

Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described below. Refer to the BMP Operations and Maintenance Manual for more detailed maintenance requirements.

Detention Ponds (Wet or Dry)
Inspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM WATER POLLUTION PREVENTION PLAN

C510

PLOT DATE: 12/3/2020 1:08 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C510.SWPPP.dwg

SPECIFICATIONS

CONTRIBUTING DRAINAGE AREA
- TWO ACRES MAXIMUM..

RIPRAP CHECK DAM
- DAM HEIGHT – TWO FEET MAXIMUM; CENTER OF THE DAM TO BE AT LEAST NINE INCHES LOWER THAN THE POINTS OF CONTACT BETWEEN THE UPPERMOST POINTS OF THE RIPRAP DAM AND CHANNEL BANKS.
- SIDE SLOPE – RATIO OF 2:1 OR FLATTER.
- SPACING – TOE OF THE UPSTREAM DAM AT SAME ELEVATION AS OVERFLOW WEIR OF THE DOWNSTREAM DAM.

OVERFLOW AREAS
- STABILIZED TO REDUCE SCOUR/EROSION ALONG SIDES AND BELOW THE DAM.

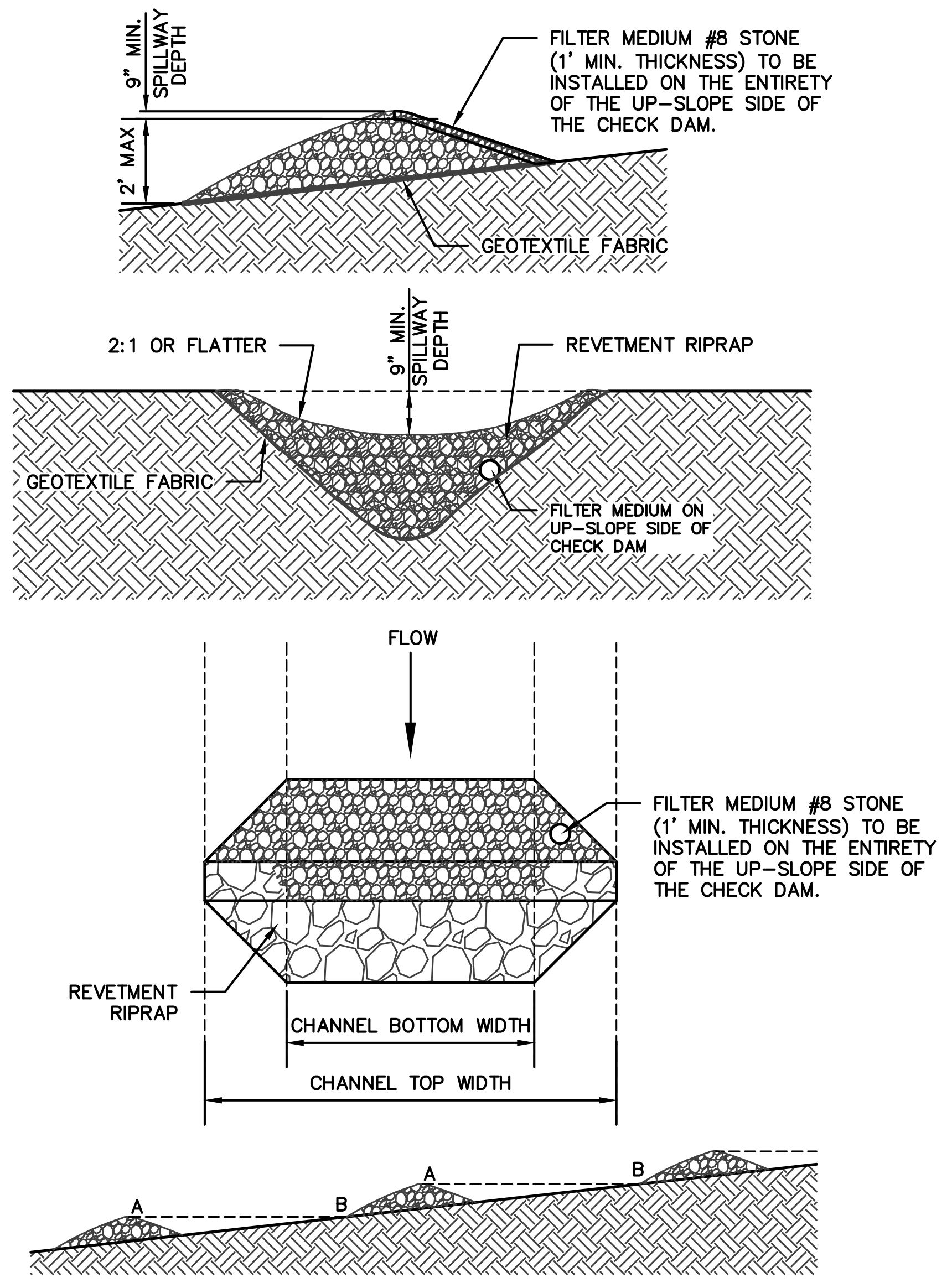
FILTER MEDIUM
- PLACED ON UP–SLOPE SIDE OF DAM.
- HEIGHT – TO BASE OF OVERFLOW WEIR NOTCH.

MATERIALS
- GEOTEXTILE FABRIC (8 OUNCE OR HEAVIER; NON–WOVEN).
- INDIANA DEPARTMENT OF TRANSPORTATION REVETMENT RIPRAP FOR DAM.
- INDOT CA NO. 5 AGGREGATE FOR USE AS FILTER MEDIUM (AGGREGATE MUST BE WELL–GRADED).

NOTE: INDOT CA NO. 8 AGGREGATE IS ACCEPTABLE IF NO. 5 IS NOT AVAILABLE. THE USE OF NO. 8 AGGREGATE MAY RESULT IN MORE FREQUENT OVERTOPPING OF THE STRUCTURE AND WILL INCREASE THE FREQUENCY OF STRUCTURE MAINTENANCE.

INSTALLATION
1. LAY OUT THE LOCATION OF THE CHECK DAM.
2. EXCAVATE A CUTOFF TRENCH INTO THE CHANNEL BOTTOM AND DITCH BANKS, EXTENDING IT A MINIMUM OF 18 INCHES BEYOND THE TOP OF THE DITCH BANK.
3. INSTALL AND ANCHOR FILTER FABRIC IN THE CHANNEL AND CUTOFF TRENCH.
4. PLACE RIPRAP IN THE CUTOFF TRENCH AND CHANNEL TO THE LINES AND DIMENSIONS SHOWN IN THE CONSTRUCTION PLANS. THE CENTER OF EACH DAM MUST BE AT LEAST NINE INCHES LOWER THAN THE UPPERMOST POINTS OF CONTACT BETWEEN THE RIPRAP DAM AND CHANNEL BANKS.
5. EXTEND THE RIPRAP AT LEAST 18 INCHES BEYOND THE TOP OF THE CHANNEL BANKS TO KEEP OVERFLOW FROM ERODING AREAS ADJACENT TO THE CHANNEL BANKS BEFORE IT RE–ENTERS THE CHANNEL.
6. PLACE FILTER MEDIUM (INDOT CA NO. 5 AGGREGATE) ON THE UP–SLOPE SIDE OF THE DAM. PLACE FILTER MEDIUM OVER THE ENTIRE FACE OF THE DAM UP TO THE BASE OF THE OVERFLOW WEIR NOTCH.
7. STABILIZE THE CHANNEL ABOVE THE UPPERMOST DAM.
8. INSTALL AN EROSION–RESISTANT LINING IN THE CHANNEL BELOW THE LOWERMOST DAM. THE LINING SHOULD EXTEND A MINIMUM DISTANCE OF SIX FEET BELOW THE DAM.
9. ADDITIONAL SEDIMENT STORAGE CAN BE PROVIDED BY EXCAVATING A SMALL SEDIMENT TRAP ON THE UPSTREAM SIDE OF THE CHECK DAM.

MAINTENANCE
- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL AN EROSION–RESISTANT LINER IN THAT PORTION OF THE CHANNEL.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE–HALF THE HEIGHT OF THE DAM TO MAINTAIN CHANNEL CAPACITY, ALLOW DRAINAGE THROUGH THE DAM, AND PREVENT LARGE FLOW FROM DISPLACING SEDIMENT.
- ADD RIPRAP AND AGGREGATE AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION OF THE DAMS.
- WHEN DAMS ARE NO LONGER NEEDED, REMOVE THE RIPRAP AND AGGREGATE AND STABILIZE THE CHANNEL, USING AN EROSION–RESISTANT LINING IF NECESSARY. (RIPRAP AND AGGREGATE FROM THE DAM MAY BE REMOVED OR UTILIZED TO STABILIZE THE CHANNEL.)


9" MIN. SPILLWAY DEPTH
2' MAX
FILTER MEDIUM #8 STONE (1' MIN. THICKNESS) TO BE INSTALLED ON THE ENTIRETY OF THE UP–SLOPE SIDE OF THE CHECK DAM.
GEOTEXTILE FABRIC
2:1 OR FLATTER
9" MIN. SPILLWAY DEPTH
REVETMENT RIPRAP
GEOTEXTILE FABRIC
FILTER MEDIUM ON UP–SLOPE SIDE OF CHECK DAM
FLOW
FILTER MEDIUM #8 STONE (1' MIN. THICKNESS) TO BE INSTALLED ON THE ENTIRETY OF THE UP–SLOPE SIDE OF THE CHECK DAM.
REVETMENT RIPRAP
CHANNEL BOTTOM WIDTH
CHANNEL TOP WIDTH
A
B
A
B

A = CREST OF DAM
B = TOE OF DAM

NOTE: DO NOT USE CHECK DAMS IN PERENNIAL STREAMS.

ROCK CHECK DAM

NOT TO SCALE (REV. 03/18)

SPECIFICATIONS

DRAINAGE AREA
- LIMITED TO ONE–QUARTER ACRE PER 100 LINEAR FEET OF FENCE.
- FURTHER RESTRICTED BY SLOPE STEEPNESS (SEE TABLE 1).

EFFECTIVE LIFE
- SIX MONTHS (MAXIMUM).

LOCATION
- INSTALLED PARALLEL TO THE SLOPE CONTOUR.
- MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A BROAD, SHALLOW SEDIMENT POOL.
- ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR).

SPACING

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

PERCENT SLOPE		MAXIMUM DISTANCE
< 2%	< 50:1	100 FEET
2% – 5%	50:1 TO 20:1	75 FEET
5% – 10%*	20:1 TO 10:1	50 FEET
10% – 20%*	10:1 TO 5:1	25 FEET
> 20%	> 5:1	15 FEET

*CONSIDER OTHER ALTERNATIVES.
NOTE: MULTIPLE ROWS OF SILT FENCE ARE NOT RECOMMENDED ON THE SAME SLOPE.

TRENCH
- DEPTH: EIGHT INCHES MINIMUM.
- WIDTH: FOUR INCHES MINIMUM.
- AFTER INSTALLING THE FENCE, BACKFILL WITH SOIL MATERIAL AND COMPACT (TO BURY AND ANCHOR THE LOWER PORTION OF THE FENCE FABRIC).

NOTE: AN ALTERNATIVE TO TRENCHING IS TO USE MECHANICAL EQUIPMENT TO PLOW IN THE SILT FENCE.

MATERIALS AND SILT FENCE SPECIFICATIONS
- FABRIC – WOVEN OR NON–WOVEN GEOTEXTILE FABRIC, MEETING SPECIFIED MINIMUMS OUTLINED IN TABLE 2.

TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

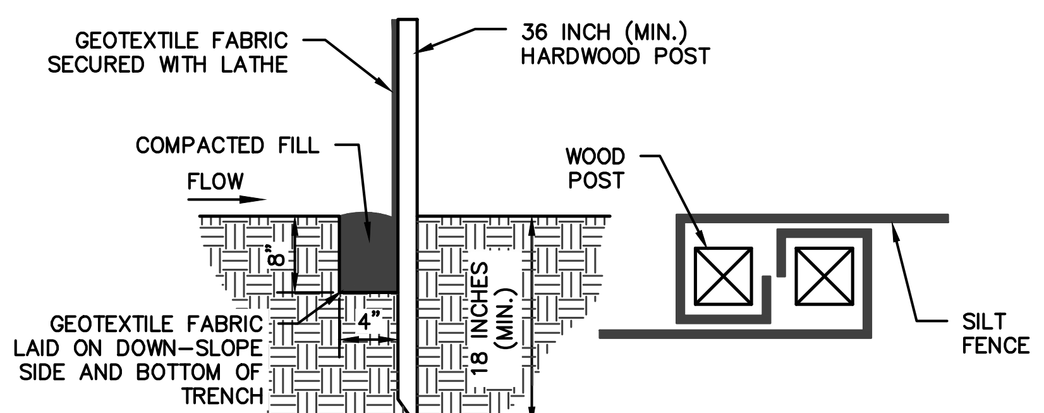
PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON–WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
TEXTILE STRENGTH AT 20% ELONGATION		
STANDARD STRENGTH	30 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH
EXTRA STRENGTH	50 LBS. PER LINEAL INCH	70 LBS. PER LINEAL INCH
SLURRY FLOW RATE	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT
UV RESISTANCE	70%	85%
POST SPACING	7 FEET	5 FEET

NOTE: SILT FENCES CAN BE PURCHASED COMMERCIALLY.
- HEIGHT – A MINIMUM OF 18 INCHES ABOVE GROUND LEVEL (30 INCHES MAXIMUM).
- REINFORCEMENT – FABRIC SECURELY FASTENED TO POSTS WITH WOOD LATHE.
- SUPPORT POSTS – 2x2 INCH HARDWOOD POSTS. STEEL FENCE POSTS MAY BE SUBSTITUTED FOR HARDWOOD POSTS (STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC).
- SPACING – EIGHT FEET MAXIMUM IS FENCE IS SUPPORTED BY WIRE MESH FENCING, SIX FEET MAXIMUM FOR EXTRA–STRENGTH FABRIC WITHOUT WIRE BACKING.

INSTALLATION
1. LAY OUT THE LOCATION OF THE FENCE SO THAT IS IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT–INCH DEEP BY FOUR–INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP–SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN–SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF TWO FENCES, USE THE JOINT METHOD SHOWN.
5. LAY THE FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP–SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON–SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS (REFER TO TABLES 1 AND 2 FOR SPACING AND GEOTEXTILE SPECIFICATIONS) AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

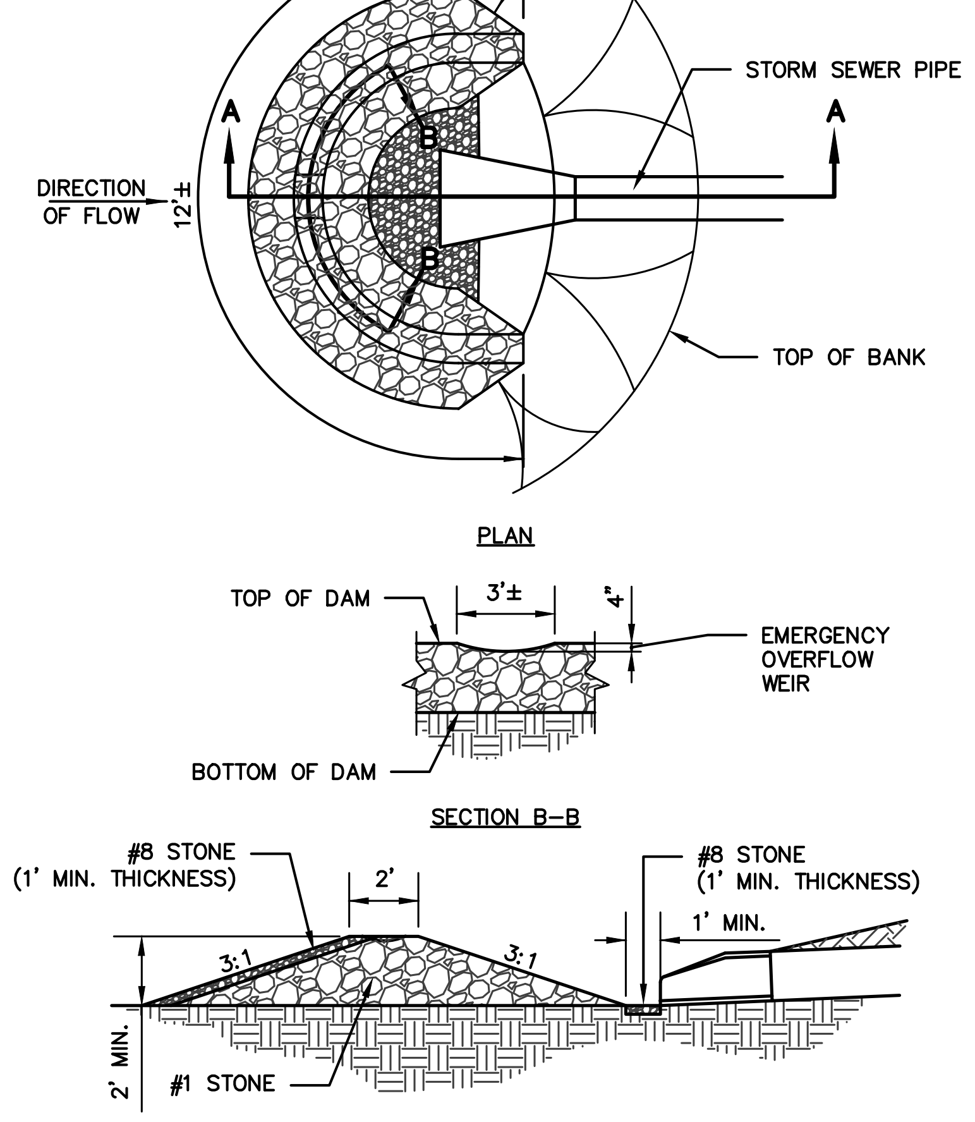
MAINTENANCE
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ON–HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.


GEOTEXTILE FABRIC SECURED WITH LATHE
36 INCH (MIN.) HARDWOOD POST
COMPACTED FILL
FLOW
WOOD POST
8"
4"
18 INCHES (MIN.)
GEOTEXTILE FABRIC LAID ON DOWN–SLOPE SIDE AND BOTTOM OF TRENCH
SILT FENCE

NOTE: SILT FENCE IS NOT RECOMMENDED FOR USE AS A DIVERSION AND SHOULD NOT BE USED ACROSS A STREAM, CHANNEL, DITCH, SWALE, OR ANYWHERE THAT CONCENTRATED FLOW IS ANTICIPATED.

SILT FENCE CONSTRUCTION

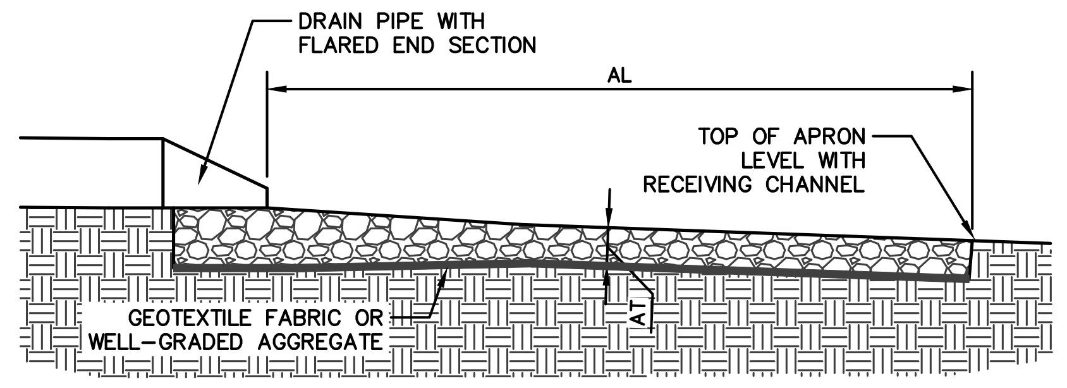
NOT TO SCALE (REV. 01/17)

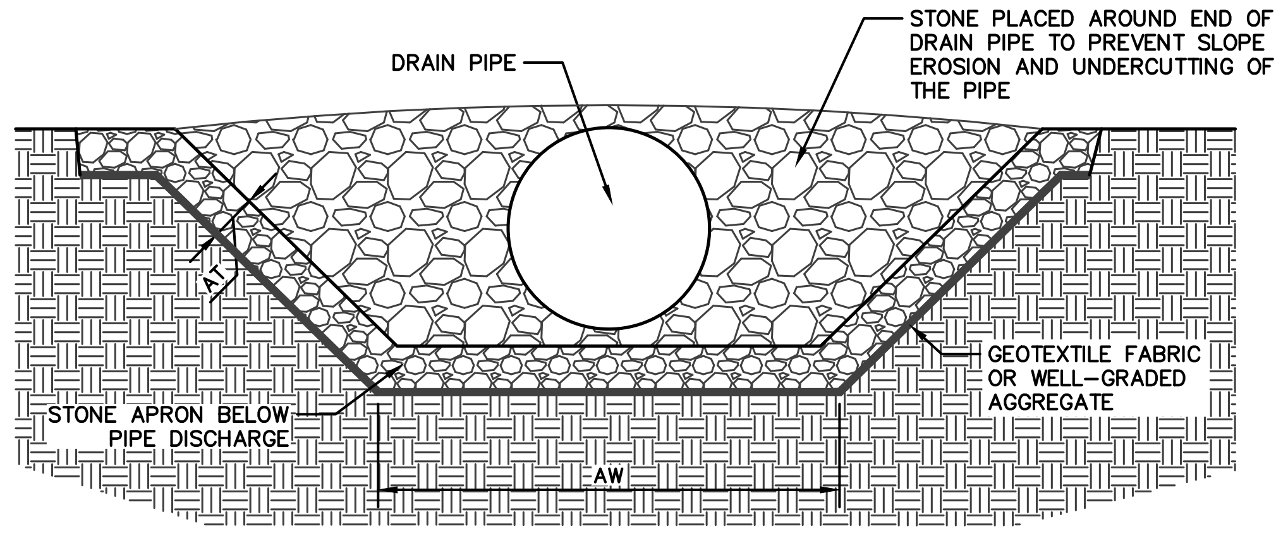


MAINTENANCE
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT AND CONSTRUCTION MATERIAL, AND RE–STABILIZE.

ROCK DONUT DETAIL

NOT TO SCALE (REV. 01/17)


DRAIN PIPE WITH FLARED END SECTION
AL
TOP OF APRON LEVEL WITH RECEIVING CHANNEL
GEOTEXTILE FABRIC OR WELL–GRADED AGGREGATE
AT


DRAIN PIPE
STONE PLACED AROUND END OF DRAIN PIPE TO PREVENT SLOPE EROSION AND UNDERCUTTING OF THE PIPE
AT
GEOTEXTILE FABRIC OR WELL–GRADED AGGREGATE
STONE APRON BELOW PIPE DISCHARGE
AW

AL = APRON LENGTH (FEET)
AW = APRON WIDTH (FEET)
AT = APRON THICKNESS (FEET)

NOTE: AW IS THE APRON WIDTH AT THE NARROW END OF THE APRON.

SPECIFICATIONS

CAPACITY
- PEAK RUNOFF FROM A 10–YEAR FREQUENCY, 24–HOUR STORM EVENT OR THE DESIGN DISCHARGE OF THE WATER CONVEYANCE STRUCTURE, WHICHEVER IS GREATER.

MAXIMUM VELOCITY
- TEN FEET PER SECOND.

APRON
- ALIGNED STRAIGHT WITH CHANNEL FLOW. IF A CURVE IS NECESSARY TO ALIGN THE APRON WITH THE RECEIVING STREAM, LOCATE THE CURVE IN THE UPSTREAM SECTION OF THE APRON.
- THICKNESS
  - 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A d_{50} STONE SIZE OF 15 INCHES OR LARGER.
  - 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A d_{50} STONE SIZE OF 15 INCHES OR LESS.

TABLE 1. SIZING FOR FLOW DISSIPATERS AT CULVERT PIPE OUTLETS

PIPE SIZE	MEDIAN RIPRAP DIAMETER	APRON WIDTH*	APRON LENGTH**
8 IN.	6 IN. MIN.	2 TO 3 FT.	5 TO 7 FT.
12 IN.	6 IN. MIN.	3 TO 4 FT.	6 TO 10 FT.
15 IN.	6 IN. MIN.	4 TO 6 FT.	6 TO 12 FT.
18 IN.	6 IN. MIN.	4 TO 6 FT.	8 TO 16 FT.
21 IN.	6 IN. MIN.	6 TO 8 FT.	8 TO 16 FT.
24 IN.	9 IN. MIN.	6 TO 8 FT.	12 TO 18 FT.
30 IN.	9 IN. MIN.	8 TO 10 FT.	14 TO 20 FT.
36 IN.	9 IN. MIN.	10 TO 12 FT.	16 TO 22 FT.
42 IN.	9 IN. MIN.	12 TO 14 FT.	18 TO 24 FT.
48 IN.	12 IN. MIN.	12 TO 14 FT.	18 TO 26 FT.
54 IN.	12 IN. MIN.	14 TO 16 FT.	22 TO 28 FT.
60 IN.	12 IN. MIN.	15 TO 17 FT.	22 TO 32 FT.
66 IN.	12 IN. MIN.	17 TO 19 FT.	24 TO 36 FT.
72 IN.	12 IN. MIN.	18 TO 20 FT.	26 TO 40 FT.
84 IN.	18 IN. MIN.	21 TO 23 FT.	30 TO 44 FT.

*APRON WIDTH AT THE NARROW END OF APRON (PIPE OR CHANNEL OUTLET).
**SELECT LENGTH TAKING INTO CONSIDERATION THE LOW FLOW (NO PRESSURE HEAD) OR HIGH FLOW (PRESSURE HEAD) CONDITIONS OF THE CULVERT PIPE.

MATERIALS
- RIPRAP
  - HARD, ANGULAR, HIGHLY WEATHER RESISTANT.
  - SPECIFIC GRAVITY OF AT LEAST 2.5.
  - SIZE AND GRADATION THAT WILL WITHSTAND VELOCITIES OF STORM WATER DISCHARGE FLOW DESIGN.
  - WELL–GRADED MIXTURE OF STONE WITH 50 PERCENT OF THE STONE PIECES, BY WEIGHT, LARGER THAN THE d_{50} SIZE AND THE DIAMETER OF THE LARGEST STONE EQUAL TO 1.5 TIMES THE d_{50} SIZE.
- GEOTEXTILE FABRIC OR WELL–GRADED AGGREGATE (INDOT CA NO. 9, 11, OR 12).

INSTALLATION
1. DIVERT SURFACE WATER RUNOFF AROUND THE STRUCTURE DURING CONSTRUCTION SO THAT THE SITE CAN BE PROPERLY DEWATERED FOR FOUNDATION PREPARATION.
2. EXCAVATE FOUNDATION AND APRON AREA SUBGRADES BELOW DESIGN ELEVATION TO ALLOW FOR THIS THICKNESS OF FILTER MEDIUM AND RIPRAP.
3. COMPACT ANY FILL USED IN SUBGRADE PREPARATION TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL MATERIAL.
4. SMOOTH SUBGRADE ENOUGH TO PROTECT GEOTEXTILE FABRIC FROM TEARING.
5. PLACE GEOTEXTILE FABRIC OR AGGREGATE BEDDING MATERIAL (FOR STABILIZATION AND FILTRATION) ON THE COMPACTED AND SMOOTHED FOUNDATION.
6. INSTALL RIPRAP TO THE LINES AND ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS. BLEND RIPRAP SMOOTHLY TO SURROUNDING GRADE. IF THE CHANNEL IS WELL DEFINED, EXTEND THE APRON ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION OF SIX INCHES ABOVE THE MAXIMUM TAILWATER DEPTH OR THE TOP OF THE BANK, WHICHEVER IS LESS.
7. IF GEOTEXTILE FABRIC TEARS WHEN PLACING RIPRAP, REPAIR IMMEDIATELY BY LAYING AND STAPLING A PIECE OF FABRIC OVER DAMAGED AREA, OVERLAPPING THE UNDAMAGED AREAS BY AT LEAST 12 INCHES.
8. CONSTRUCT A SMALL PLUNGE POOL WITHIN THE OUTLET APRON. (RIPRAP APRONS MUST BE LEVEL WITH OR SLIGHTLY LOWER THAN THE RECEIVING CHANNEL AND SHOULD NOT PRODUCE AN OVERFALL OR RESTRICT FLOW OF THE WATER CONVEYANCE STRUCTURE.)

MAINTENANCE
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.
- CHECK FOR EROSION OR SCOURING AROUND SIDES OF THE APRON; REPAIR IMMEDIATELY.
- CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.

RIPRAP OUTLET PROTECTION

NOT TO SCALE (REV. 12/17)

SEEDING SPECIFICATIONS

SEEDBED PREPARATION
- GRADE AND APPLY SOIL AMENDMENTS.

SEEDING FREQUENCY
- SEED ROUGH GRADED AREAS DAILY WHILE SOIL IS STILL LOOSE AND MOIST.

DENSITY OF VEGETATIVE COVER
- EIGHTY PERCENT OR GREATER OVER THE SOIL SURFACE.

MATERIALS
- SOIL AMENDMENTS – SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST (CONTACT YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOIL INFORMATION, INCLUDING AVAILABLE SOIL TESTING SERVICES) OR 400 TO 600 POUNDS OF 12–12–12 ANALYSIS FERTILIZER, OR EQUIVALENT. CONSIDER THE USE OF REDUCED PHOSPHOROUS APPLICATION WHERE SOIL TESTS INDICATE ADEQUATE PHOSPHOROUS LEVELS IN THE SOIL PROFILE.
- SEED – SELECT APPROPRIATE PLANT SPECIES SEED OR SEED MIXTURES ON THE BASIS OF QUICK GERMINATION, GROWTH, AND TIME OF YEAR TO BE SEEDED (SEE TABLE 1).
- MULCH – STRAW, HAY, WOOD FIBER, ETC. (TO PROTECT SEEDBED, RETAIN MOISTURE, AND ENCOURAGE PLANT GROWTH). ANCHORED TO PREVENT REMOVAL BY WIND OR WATER OR COVERED WITH MANUFACTURED EROSION CONTROL BLANKETS.

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

SEED SPECIES*	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES**
WHEAT OR RYE	150 LBS.	1 TO 1–1/2 INCHES	SEPT. 15–OCT. 30
SPRING OATS	100 LBS.	1 INCH	MARCH 1–APRIL 15
ANNUAL RYEGRASS	40 LBS.	1/4 INCH	MARCH 1–MAY 1 AUG. 1–SEPT. 1
GERMAN MILLET	40 LBS.	1 TO 2 INCHES	MAY 1–JUNE 1
SUDANGRASS	35 LBS.	1 TO 2 INCHES	MAY 1–JULY 30
BUCKWHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15–JUNE 1
CORN (BROADCAST)	300 LBS.	1 TO 2 INCHES	MAY 11–AUG. 10
SORGHUM	35 LBS.	1 TO 2 INCHES	MAY 1–JULY 15

*PERENNIAL SPECIES MAY BE USED AS A TEMPORARY COVER, ESPECIALLY IF THE AREA TO BE SEEDED WILL REMAIN IDLE FOR MORE THAN ONE YEAR.
**SEEDING DONE OUTSIDE THE OPTIMUM SEEDING DATES INCREASES THE CHANCES OF SEEDING FAILURE. DATES MAY BE EXTENDED OR SHORTENED BASED ON THE LOCATION OF THE PROJECT WITHIN THE STATE.

NOTES:
MULCH ALONE IS AN ACCEPTABLE TEMPORARY COVER AND MAY BE USED IN LIEU OF TEMPORARY SEEDING, PROVIDED THAT IT IS APPROPRIATELY ANCHORED.

A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED FLOW.

SEEDING APPLICATION

SEEDBED PREPARATION
1. TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS.
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12–12–12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

SEEDING
1. SELECT A SEED SPECIES OR AN APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE 1.
2. APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE 1.

   NOTES:
   1. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED–TO–SOIL CONTACT BY FIRMING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEED OPERATIONS.
   2. DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
   3. IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
3. APPLY MULCH AND ANCHOR IT IN PLACE.

SEEDING MAINTENANCE
- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
- IF NITROGEN DEFICIENCY IS APPARENT, TOP–DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.

MULCH SPECIFICATIONS

MATERIALS

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

MATERIAL*	RATE PER ACRE	COMMENTS
STRAW OR HAY	2 TONS	SHOULD BE DRY, FREE OF UNDESIRABLE SEEDS. SPREAD BY HAND OR MACHINE. MUST BE CRIMPED OR ANCHORED (SEE TABLE 2).
WOOD FIBER OR CELLULOSE	1 TON	APPLY WITH A HYDRAULIC MULCH MACHINE AND USE WITH TACKING AGENT.

*MULCHING IS NOT RECOMMENDED IN CONCENTRATED FLOWS. CONSIDER EROSION CONTROL BLANKETS OR OTHER STABILIZATION METHODS.

COVERAGE
- THE MULCH SHOULD HAVE A UNIFORM DENSITY OF AT LEAST 75 PERCENT OVER THE SOIL SURFACE.

ANCHORING

TABLE 2. MULCH ANCHORING METHODS

ANCHORING METHOD*	HOW TO APPLY
MULCH ANCHORING TOOL OR FARM DISK (DULL, SERRATED, AND BLADES SET STRAIGHT)	CRIMP OR PUNCH THE STRAW OR HAY TWO TO FOUR INCHES INTO THE SOIL. OPERATE MACHINERY ON THE CONTOUR OF THE SLOPE.
CLEATING WITH DOZER TRACKS	OPERATE DOZER UP AND DOWN SLOPE TO PREVENT FORMATION OF RILLS BY DOZER CLEATS.
WOOD HYDROMULCH FIBERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
SYNTHETIC TACKIFIERS, BINDERS, OR SOIL STABILIZERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
NETTING (SYNTHETIC OR BIODEGRADABLE MATERIAL)	INSTALL NETTING IMMEDIATELY AFTER APPLYING MULCH. ANCHOR NETTING WITH STAPLES. EDGES OF NETTING STRIPS SHOULD OVERLAP WITH EACH UP–SLOPE STRIP OVERLAPPING FOUR TO SIX INCHES OVER THE ADJACENT DOWN–SLOPE STRIP. BEST SUITED TO SLOPE APPLICATIONS. IN MOST INSTANCES, INSTALLATION DETAILS ARE SITE SPECIFIC, SO MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.

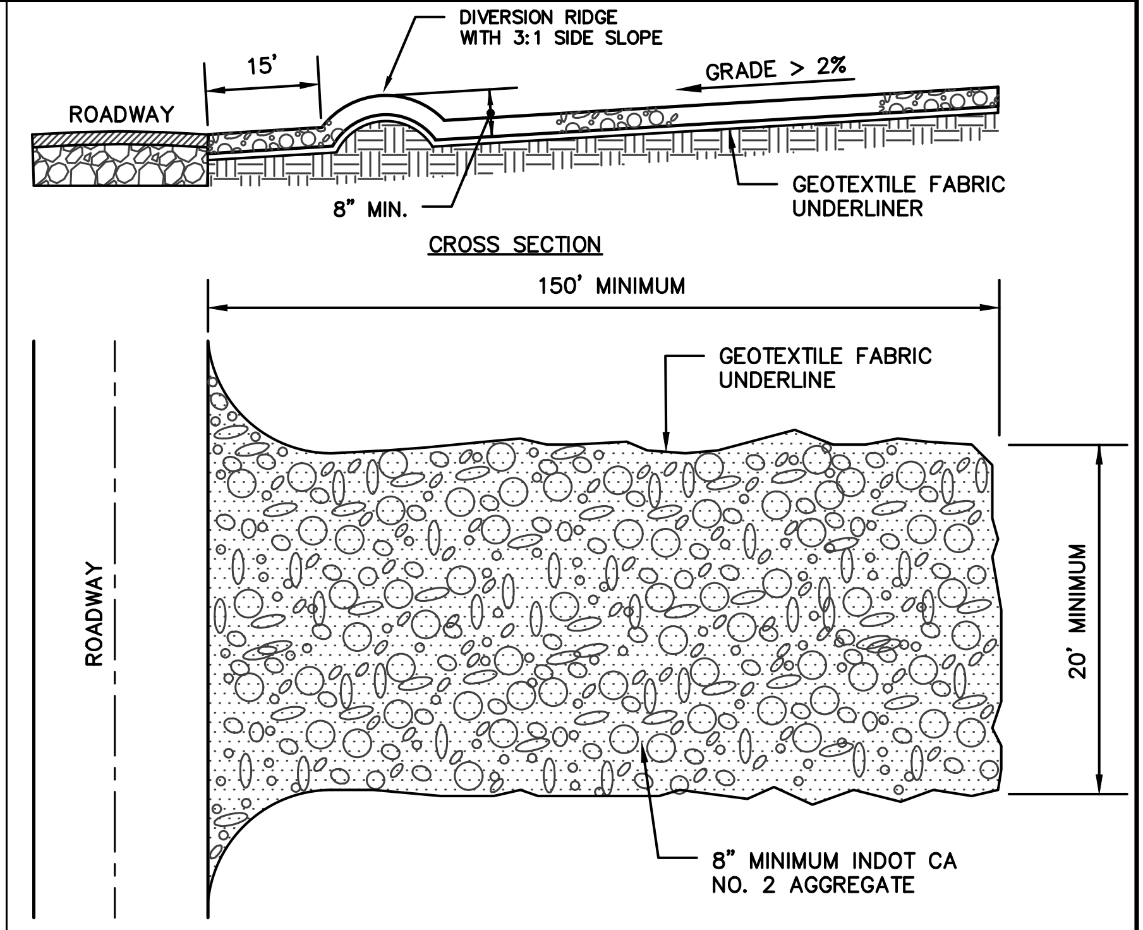
*ALL FORMS OF MULCH MUST BE ANCHORED TO PREVENT DISPLACEMENT BY WIND AND/OR WATER.

MULCH APPLICATION
1. APPLY MULCH AT THE RECOMMENDED RATE SHOWN IN TABLE 1.
2. SPREAD THE MULCH MATERIAL UNIFORMLY BY HAND, HAYFORK, MULCH BLOWER, OR HYDRAULIC MULCH MACHINE. AFTER SPREADING, NO MORE THAN 25 PERCENT OF THE GROUND SHOULD BE VISIBLE.
3. ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION. THE MULCH CAN BE ANCHORED USING ONE OF THE METHODS LISTED BELOW:
   a. CRIMP WITH A MULCH ANCHORING TOOL, A WEIGHTED FARM DISK WITH DULL SERRATED BLADES SET STRAIGHT, OR TRACK CLEATS OF A BULLDOZER,
   b. APPLY HYDRAULIC MULCH WITH SHORT CELLULOSE FIBERS,
   c. APPLY A LIQUID TACKIFIER, OR
   d. COVER WITH NETTING SECURED BY STAPLES.

MULCH MAINTENANCE
- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH; REPAIR DAMAGED AREAS, RESEED, APPLY NEW MULCH AND ANCHOR THE MULCH IN PLACE.
- CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- IF EROSION IS SEVER OR RECURRING, USE EROSION CONTROL BLANKETS OR OTHER MORE SUBSTANTIAL STABILIZATION METHODS TO PROTECT THE AREA.

TEMPORARY SEEDING WITH MULCH

NOT TO SCALE (REV. 01/17)


DIVERSION RIDGE WITH 3:1 SIDE SLOPE
15'
GRADE > 2%
ROADWAY
8" MIN.
GEOTEXTILE FABRIC UNDERLINER
CROSS SECTION
150' MINIMUM
GEOTEXTILE FABRIC UNDERLINE
ROADWAY
20' MINIMUM
8" MINIMUM INDOT CA NO. 2 AGGREGATE

SPECIFICATIONS

LOCATION
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.

DIMENSIONS
- WIDTH: TWENTY (20) FEET MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT ROADWAY, WHICHEVER IS GREATER.
- LENGTH: ONE–HUNDRED FIFTY (150) FEET MINIMUM (LENGTH CAN BE SHORTER FOR SMALLER SITES).
- THICKNESS: EIGHT (8) INCHES MINIMUM.

MATERIALS
- ONE (1) TO TWO AND ONE–HALF (2–1/2) INCH DIAMETER WASHED AGGREGATE (INDOT CA NO. 2).
- ONE–HALF (1/2) TO ONE AND ONE–HALF (1–1/2) INCH WASHED AGGREGATE (INDOT CA NO. 53); OPTIONAL, USED PRIMARILY WHERE THE PURPOSE OF THE PAD IS TO KEEP SOIL FROM ADHERING TO VEHICLE TIRES.
- GEOTEXTILE FABRIC UNDERLAYMENT (USED AS A SEPARATE LAYER TO PREVENT INTERMIXING OF AGGREGATE AND THE UNDERLYING SOIL MATERIAL AND TO PROVIDE GREATER BEARING STRENGTH WHEN ENCOUNTERING WET CONDITIONS OR SOILS WITH SEASONAL HIGH WATER TABLE LIMITATIONS).

INSTALLATION
1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO (2) PERCENT, CONSTRUCT AN EIGHT (8) INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3–TO–1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD (SEE CROSS–SECTION VIEW ABOVE).
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE
- INSPECT DAILY.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOP–DRESS WITH CLEAN AGGREGATE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
- FLUSHING SHOULD ONLY BE USED IF THE WATER FROM THE CONSTRUCTION DRIVE CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

GRAVEL CONSTRUCTION ENTRANCE (SITES LARGER THAN TWO ACRES)

NOT TO SCALE (REV. 01/17)

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

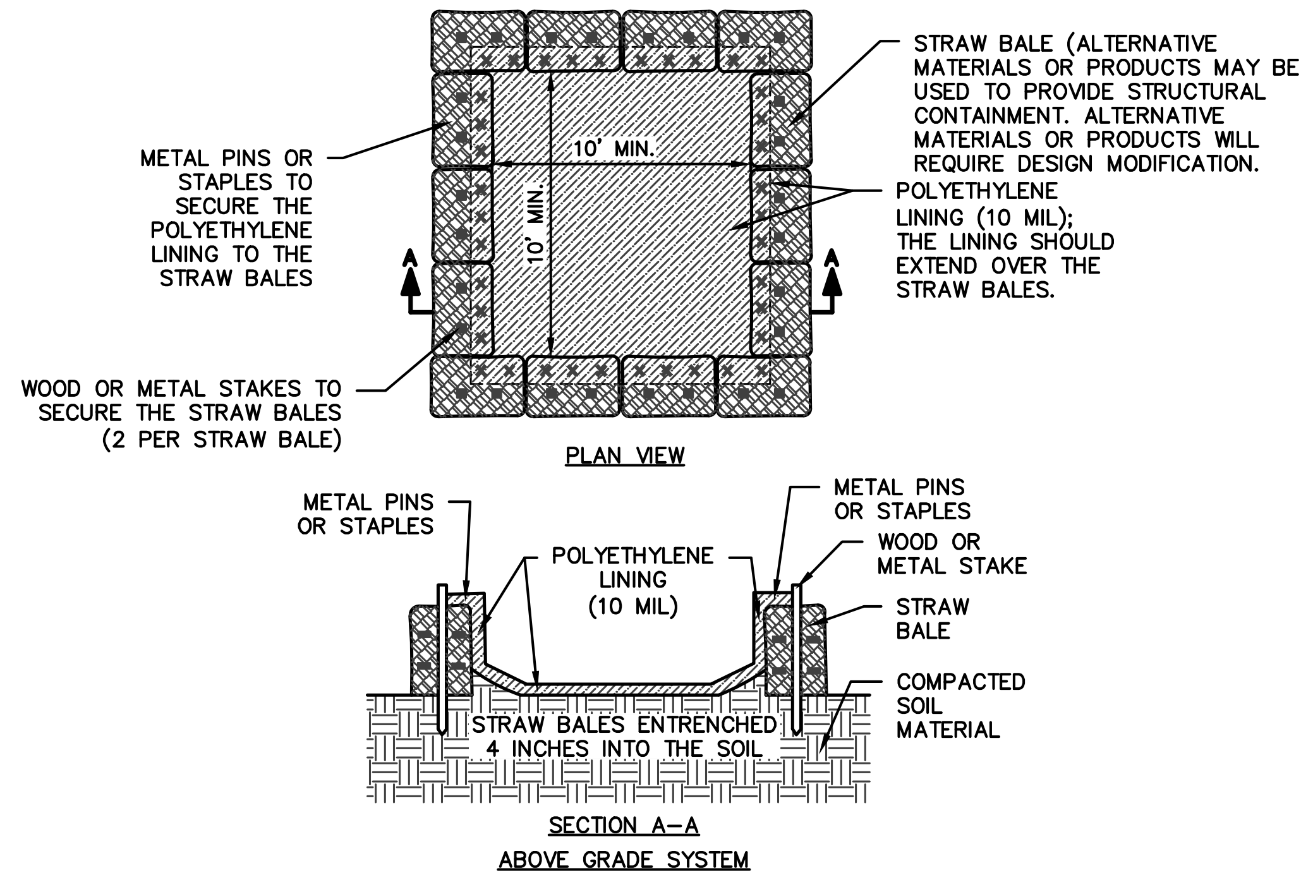
EROSION CONTROL DETAILS

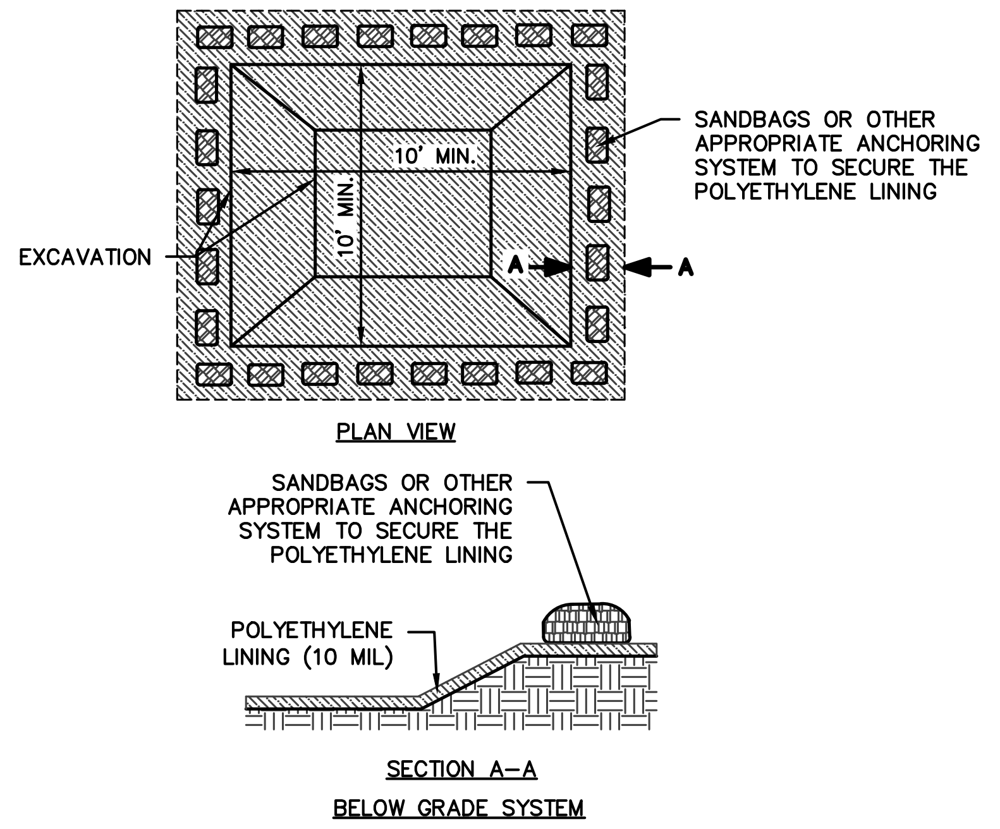
C520

PLOT DATE: 12/3/2020 1:08 PM EDIT DATE: 3/13/2020 EDITED BY: DWALLACE DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C520.ECD.dwg
PLOT SCALE: 1:2.5849

CONCRETE WASH OUT

NOT TO SCALE (REV. 01/17)


METAL PINS OR STAPLES TO SECURE THE POLYETHYLENE LINING TO THE STRAW BALES
WOOD OR METAL STAKES TO SECURE THE STRAW BALES (2 PER STRAW BALE)
10' MIN.
10' MIN.
A
STRAW BALE (ALTERNATIVE MATERIALS OR PRODUCTS MAY BE USED TO PROVIDE STRUCTURAL CONTAINMENT. ALTERNATIVE MATERIALS OR PRODUCTS WILL REQUIRE DESIGN MODIFICATION.
POLYETHYLENE LINING (10 MIL); THE LINING SHOULD EXTEND OVER THE STRAW BALES.
PLAN VIEW
METAL PINS OR STAPLES
POLYETHYLENE LINING (10 MIL)
METAL PINS OR STAPLES
WOOD OR METAL STAKE
STRAW BALE
COMPACTED SOIL MATERIAL
STRAW BALES ENTRENCHED 4 INCHES INTO THE SOIL
SECTION A–A
ABOVE GRADE SYSTEM


EXCAVATION
10' MIN.
10' MIN.
A
A
SANDBAGS OR OTHER APPROPRIATE ANCHORING SYSTEM TO SECURE THE POLYETHYLENE LINING
PLAN VIEW
SANDBAGS OR OTHER APPROPRIATE ANCHORING SYSTEM TO SECURE THE POLYETHYLENE LINING
POLYETHYLENE LINING (10 MIL)
SECTION A–A
BELOW GRADE SYSTEM

MATERIALS
- MINIMUM OF TEN MIL POLYETHYLENE SHEETING THAT IS FREE OF HOLES, TEARS, AND OTHER DEFECTS. THE SHEETING SELECTED SHOULD BE OF AN APPROPRIATE SIZE TO FIT THE WASHOUT SYSTEM WITHOUT SEAMS OR OVERLAP OF THE LINING (DESIGNED AND INSTALLED SYSTEMS).
- SIGNAGE.
- ORANGE SAFETY FENCING OR EQUIVALENT.
- STRAW BALES, SANDBAGS (BAGS SHOULD BE ULTRAVIOLET–STABILIZED GEOTEXTILE FABRIC), SOIL MATERIAL, OR OTHER APPROPRIATE MATERIALS THAT CAN BE USED TO CONSTRUCT A CONTAINMENT SYSTEM (ABOVE GRADE SYSTEMS).
- METAL PINS OR STAPLES AT A MINIMUM OF SIX INCHES IN LENGTH, SANDBAGS, OR ALTERNATIVE FASTENER TO SECURE POLYETHYLENE LINING TO THE CONTAINMENT SYSTEM.
- NON–COLLAPSING AND NON–WATER HOLDING COVER FOR USE DURING RAIN EVENTS (OPTIONAL).

INSTALLATION

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED SYSTEMS
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
- DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
- A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
- INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
- PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
- PLACE A NON–COLLAPSING, NON–WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
- INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
- POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE
- INSPECT DAILY AND AFTER EACH STORM EVENT.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
- THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NO EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FUTURE DEWATERING.
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

SPECIFICATIONS

SITE MANAGEMENT
- COMPLETE CONSTRUCTION/INSTALLATION OF THE SYSTEM AND HAVE WASHOUT LOCATIONS OPERATIONAL PRIOR TO CONCRETE DELIVERY.
- DO NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES, OR STREETS.
- NEVER WASH OUT INTO A STORM SEWER DRAINAGE SYSTEM. THESE SYSTEMS ARE TYPICALLY CONNECTED TO A NATURAL CONVEYANCE SYSTEM.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS.
- IT IS RECOMMENDED THAT WASHOUT SYSTEMS BE RESTRICTED TO WASHING CONCRETE FROM MIXER AND PUMP TRUCKS AND NOT USED TO DISPOSE OF EXCESS CONCRETE OR RESIDUAL LOADS DUE TO THE POTENTIAL TO EXCEED THE DESIGN CAPACITY OF THE WASHOUT SYSTEM. SMALL AMOUNTS OF EXCESS OR RESIDUAL CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
- INSTALL SYSTEMS AT STRATEGIC LOCATIONS THAT ARE CONVENIENT AND IN CLOSE PROXIMITY TO WORK AREAS AND IN SUFFICIENT NUMBER TO ACCOMMODATE THE DEMAND FOR DIPOSAL.
- INSTALL SIGNAGE IDENTIFYING THE LOCATION OF CONCRETE WASHOUT SYSTEMS.

LOCATION
- LOCATE CONCRETE WASHOUT SYSTEMS AT LEAST 50 FEET FROM ANY CREEKS, WETLANDS, DITCHEST, KARST FEATURES, OR STORM DRAINS/MANMADE CONVEYANCE SYSTEMS.
- TO THE EXTENT PRACTICAL, LOCATE CONCRETE WASHOUT SYSTEMS IN RELATIVELY FLAT AREAS THAT HAVE ESTABLISHED VEGETATIVE COVER AND DO NOT RECEIVE RUNOFF FROM ADJACENT LAND AREAS.
- LOCATE IN AREAS THAT PROVIDE EASY ACCESS FOR CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT.
- LOCATE AWAY FROM OTHER CONSTRUCTION TRAFFIC TO REDUCE THE POTENTIAL FOR DAMAGE TO THE SYSTEM.

GENERAL DESIGN CONSIDERATIONS
- THE STRUCTURE OR SYSTEM SHALL BE DESIGNED TO CONTAIN THE ANTICIPATED WASHOUT WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- THE SYSTEM SHALL BE DESIGNED, TO THE EXTENT PRACTICAL, TO ELIMINATE RUNOFF FROM ENTERING THE WASHOUT SYSTEM.
- RUNOFF FROM A RAINSTORM OR SNOWMELT SHOULD NOT CARRY WASTES AWAY FROM THE WASHOUT LOCATION.
- WASHOUT WILL NOT IMPACT FUTURE LAND USES (I.E., OPEN SPACES, LANDSCAPED AREAS, HOME SITES, PARKS).
- WASHOUT SYSTEMS/CONTAINMENTS MEASURES MAY ALSO BE UTILIZED ON SMALLER INDIVIDUAL BUILDING SITES. THE DESIGN AND SIZE OF THE SYSTEM CAN BE ADJUSTED TO ACCOMMODATE THE EXPECTED CAPACITY.

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
- SELF–CONTAINED STURDY CONTAINMENT SYSTEMS THAT ARE DELIVERED TO A SITE AND LOCATED AT STRATEGIC LOCATIONS FOR CONCRETE DISPOSAL.
- THESE SYSTEMS ARE MANUFACTURED TO RESIST DAMAGE FROM CONSTRUCTION EQUIPMENT AND PROTECT AGAINST LEAKS OR SPILLS.
- MANUFACTURER OR SUPPLIER PROVIDES THE CONTAINERS. THE PROJECT SITE MANAGER MAINTAINS THE SYSTEM OR THE SUPPLIER PROVIDES COMPLETE SERVICE THAT INCLUDES MAINTENANCE AND DISPOSAL.
- UNITS ARE OFTEN AVAILABLE WITH OR WITHOUT RAMPS. UNITS WITH RAMPS LEND THEMSELVES TO ACCOMMODATE PUMP TRUCKS.
- MAINTAIN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED UNITS

THESE UNITS ARE DESIGNED AND INSTALLED ON SITE. THEY TEND TO BE LESS RELIABLE THAN PREFABRICATED SYSTEMS ARE OFTEN PRONE TO FAILURE. CONCRETE WASHOUT SYSTEMS CAN BE CONSTRUCTED ABOVE OR BELOW GRADE. IT IS NOT UNCOMMON TO HAVE A SYSTEM THAT IS PARTLY BELOW GRADE WITH AN ADDITIONAL CONTAINMENT STRUCTURE ABOVE GRADE.
- WASHOUT SYSTEMS SHALL UTILIZE A PIT OR BERMED AREA DESIGNED AND MAINTAINED AT A CAPACITY TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- THE VOLUME OF THE SYSTEM MUST ALSO BE DESIGNED TO CONTAIN RUNOFF THAT DRAINS TO THE SYSTEM AND RAINFALL THAT ENTERS THE SYSTEM FOR A TWO–YEAR FREQUENCY, 24–HOUR STORM EVENT.

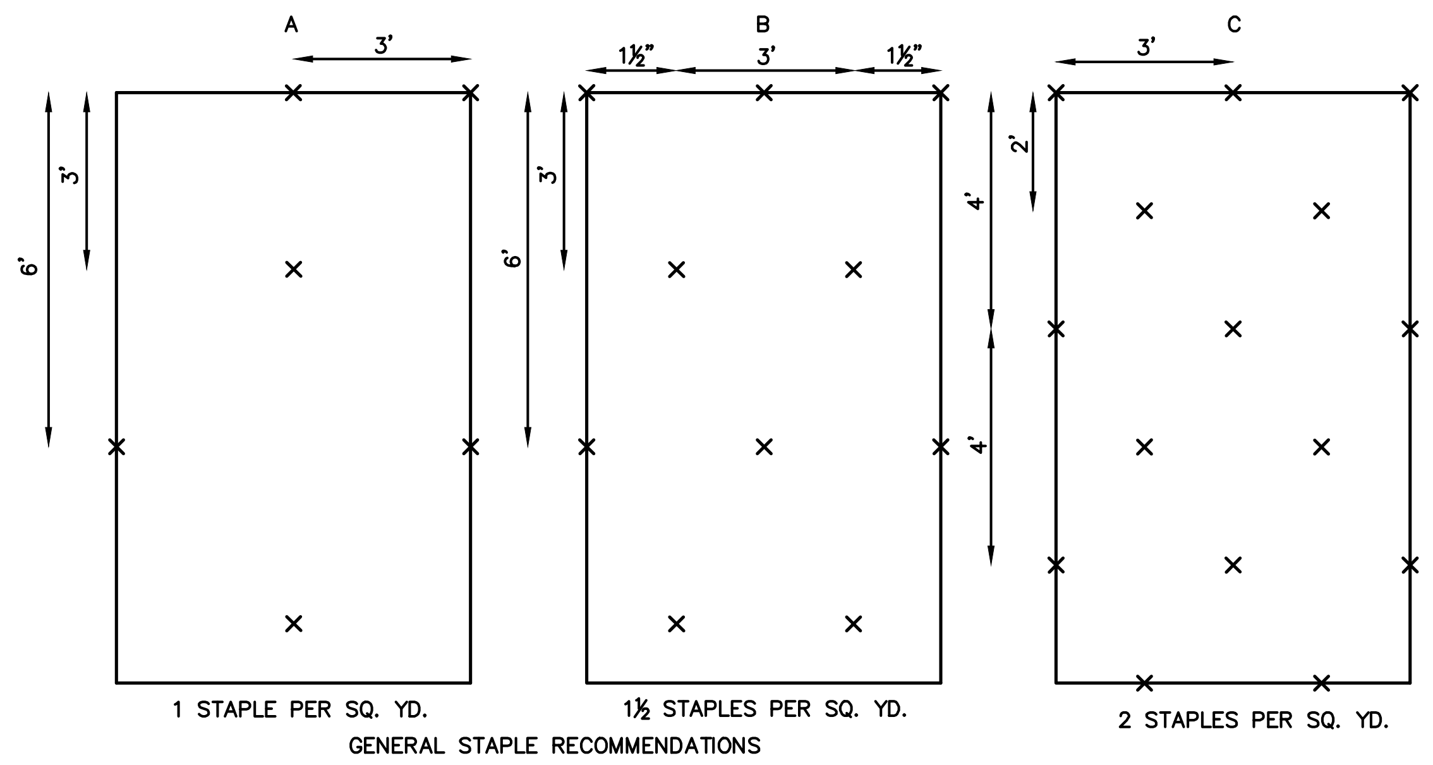
BELOW GRADE SYSTEM
- A WASHOUT SYSTEM INSTALLED BELOW GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE PIT MAY BE LIMITED BY THE SIZE OF THE POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE ADEQUATE SIZE TO EXTEND OVER THE ENTIRE EXCAVATION.
- INCLUDE A MINIMUM 12–INCH FREEBOARD TO REASONABLY ENSURE THAT THE STRUCTURE WILL NOT OVERTOP DURING A RAIN EVENT.
- LINE THE PIT WITH TEN MIL POLYETHYLENE LINING TO CONTROL SEEPAGE.
- THE BOTTOM OF EXCAVATED PIT SHOULD BE ABOVE THE SEASONAL HIGH WATER TABLE.

ABOVE GRADE SYSTEM
- A SYSTEM DESIGNED AND BUILT ABOVE GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE CONTAINMENT SYSTEM MAY BE LIMITED BY THE SIZE OF POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE OF ADEQUATE SIZE TO EXTEND OVER THE BERM OR CONTAINMENT SYSTEM.
- THE SYSTEM DESIGN MAY UTILIZE AN EARTHEN BERM, STRAW BALES, SANDBAGS, OR OTHER ACCEPTABLE BARRIERS THAT WILL MAINTAIN ITS SHAPE AND INTEGRITY AND SUPPORT THE POLYETHYLENE LINING.
- INCLUDE A MINIMUM FOUR–INCH FREEBOARD AS PART OF THE DESIGN.

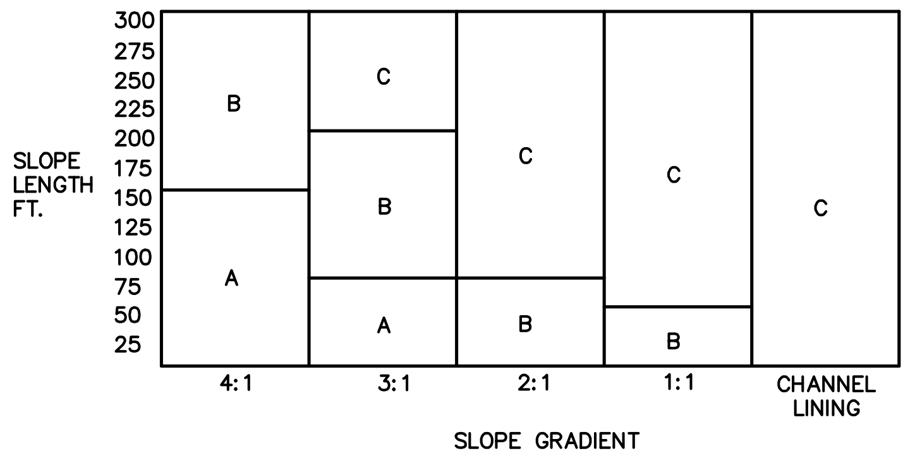
WASHOUT PROCEDURES
- DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER THE POUR. EVERY EFFORT SHOULD BE MADE TO EMPTY THE CHUTES AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
- AT THE WASHOUT LOCATION, SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON–WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
- REMOVE AS MUCH MUD AS POSSIBLE WHEN WASHING OUT.
- STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE CONTAINMENT SYSTEM IS LEAKING OR OVERFLOWING AND INEFFECTIVE.
- DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE. BACK FLUSHING SHOULD BE RESTRICTED TO THE PLANT AS IT GENERATES LARGE VOLUMES OF WASTE THAT MORE THAN LIKELY WILL EXCEED THE CAPACITY OF MOST WASHOUT SYSTEMS. IF AN EMERGENCY ARISES, BACK FLUSH SHOULD ONLY BY PERFORMED WITH THE PERMISSION OF AN ON–SITE MANAGER FOR THE PROJECT.
- DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE SOLVENTS OR ACIDS THAT MAY BE USED AT THE TARGET PLANT.

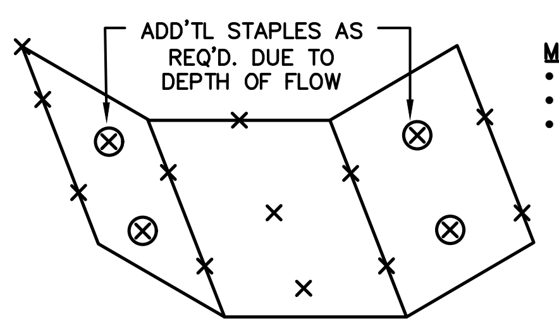
EROSION CONTROL BLANKET

NOT TO SCALE (REV. 01/17)


A
3'
3'
6'
1 STAPLE PER SQ. YD.
B
1½"
3'
1½"
3'
6'
1½ STAPLES PER SQ. YD.
C
3'
2'
4'
4'
2 STAPLES PER SQ. YD.

GENERAL STAPLE RECOMMENDATIONS




ADD'TL STAPLES AS REQ'D. DUE TO DEPTH OF FLOW

SPECIFICATIONS

EFFECTIVE LIFE
- THE FUNCTIONAL LIFE OF AN EROSION CONTROL BLANKET IS DEPENDENT ON THE MATERIALS USED.

ANCHORING
- STAPLES, PINS OR STAKES USED TO PREVENT MOVEMENT OR DISPLACEMENT OF BLANKET. (FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.)

MATERIALS
- ORGANIC (STRAW, EXCELSIOR, WOVEN PAPER, COCONUT FIBER, ETC.) OR SYNTHETIC MULCH INCORPORATED WITH A POLYPROPYLENE, NATURAL FIBER OR SIMILAR NETTING MATERIAL. (THE NETTING MAY BE BIODEGRADABLE, PHOTODEGRADABLE OR PERMANENT.)

NOTE: SOME EROSION CONTROL BLANKET NETTINGS MAY POSE A THREAT TO CERTAIN SPECIES OF WILDLIFE IF THEY BECOME ENTANGLED IN THE NETTING MATRIX.

- SIX TO 12–INCH STAPLES, PINS, OR STAKES.

INSTALLATION
1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S RECOMMENDATIONS.
2. PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
3. LAY EROSION CONTROL BLANKETS ON THE SEEDED AREA SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL WITH EACH UP–SLOPE OR UP–STREAM BLANKET OVERLAPPING THE DOWN–SLOPE OR DOWN–STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
4. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITIONAL CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
5. ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE
- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

NOTES

CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

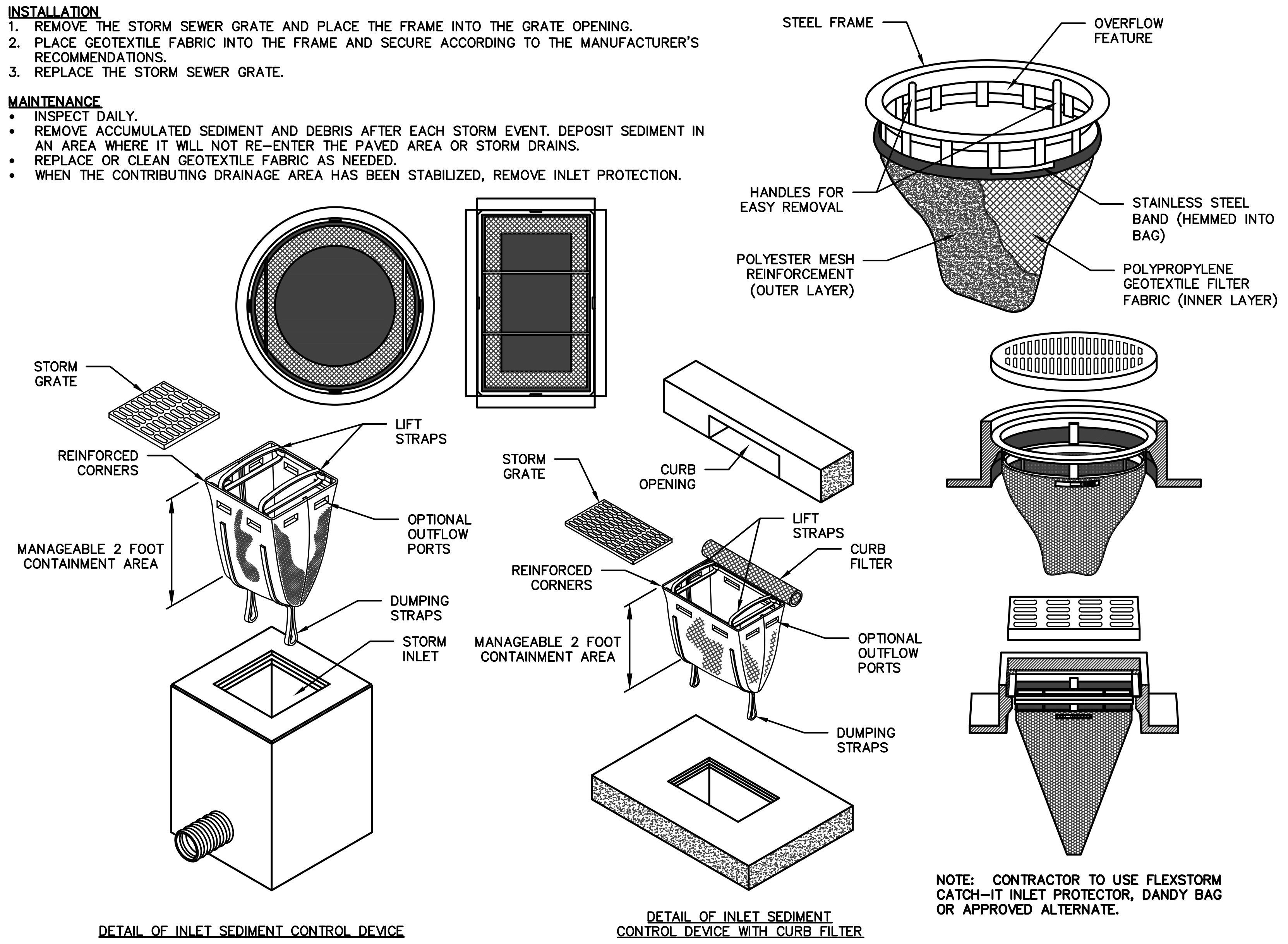
AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

DROP–IN INLET PROTECTION

NOT TO SCALE (REV. 01/17)

INSTALLATION
1. REMOVE THE STORM SEWER GRATE AND PLACE THE FRAME INTO THE GRATE OPENING.
2. PLACE GEOTEXTILE FABRIC INTO THE FRAME AND SECURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
3. REPLACE THE STORM SEWER GRATE.

MAINTENANCE
- INSPECT DAILY.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE–ENTER THE PAVED AREA OR STORM DRAINS.
- REPLACE OR CLEAN GEOTEXTILE FABRIC AS NEEDED.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE INLET PROTECTION.


STEEL FRAME
OVERFLOW FEATURE
HANDLES FOR EASY REMOVAL
STAINLESS STEEL BAND (HEMMED INTO BAG)
POLYESTER MESH REINFORCEMENT (OUTER LAYER)
POLYPROPYLENE GEOTEXTILE FILTER FABRIC (INNER LAYER)
STORM GRATE
LIFT STRAPS
REINFORCED CORNERS
OPTIONAL OUTFLOW PORTS
MANAGEABLE 2 FOOT CONTAINMENT AREA
DUMPING STRAPS
STORM INLET
DETAIL OF INLET SEDIMENT CONTROL DEVICE
CURB OPENING
STORM GRATE
LIFT STRAPS
CURB FILTER
REINFORCED CORNERS
OPTIONAL OUTFLOW PORTS
MANAGEABLE 2 FOOT CONTAINMENT AREA
DUMPING STRAPS
DETAIL OF INLET SEDIMENT CONTROL DEVICE WITH CURB FILTER

NOTE: CONTRACTOR TO USE FLEXSTORM CATCH–IT INLET PROTECTOR, DANDY BAG OR APPROVED ALTERNATE.

DROP–IN INLET PROTECTION TO BE USED IN PAVED AREAS.

SILT FENCE INLET PROTECTION

NOT TO SCALE (REV. 01/17)

SPECIFICATIONS

NOTE: ALTERNATIVE SUPPORT SYSTEMS MAY BE SUBSTITUTED FOR HARDWOOD POSTS AND CROSS BRACES.

CONTRIBUTING DRAINAGE AREA
- ONE ACRE MAXIMUM.

EFFECTIVE LIFE
- SIX MONTHS (MAXIMUM).

CAPACITY
- RUNOFF FROM A TWO–YEAR FREQUENCY, 24–HOUR STORM EVENT ENTERING A STORM DRAIN WITHOUT BYPASS FLOW.

GEOTEXTILE STRUCTURE
- HEIGHT – 12 TO 18 INCHES, MEASURED FROM THE TOP OF STORM DRAIN INLET.
- POST SPACING – 36–INCH MAXIMUM SPACING BETWEEN POSTS.
- FRAME SUPPORT – BRACING TO STRENGTHEN INTEGRITY OF THE STRUCTURE. (STRUCTURE MUST WITHSTAND 1½–FOOT HEAD OF WATER AND SEDIMENT WITHOUT COLLAPSING OR WITHSTANDING.)

MATERIALS
- SUPPORT POSTS
  - 2 x 2 INCH OR 2 x4 INCH HARDWOOD POSTS.
  - THREE FEET LENGTH, MINIMUM.
- 1 x 2 INCH OR 1 x 3 INCH HARDWOOD CROSS BRACING LUMBER.
- LATHE.
- STAPLES OR NAILS.
- GEOTEXTILE FABRIC.

TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

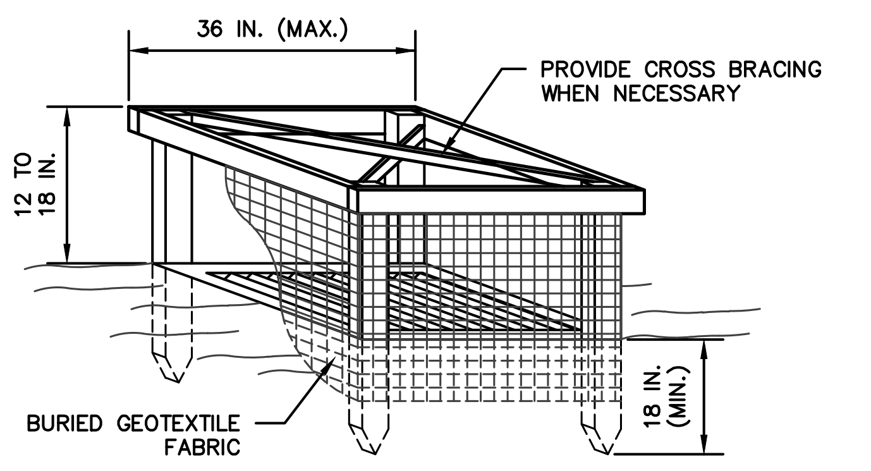
PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON–WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
UV RESISTANCE (INHIBITORS AND STABILIZERS TO ENSURE SIX MONTH MINIMUM LIFE AT TEMPERATURES 0° TO 120° F)	70%	85%
TEXTILE STRENGTH AT 20% ELONGATION STANDARD STRENGTH EXTRA STRENGTH	30 LBS. PER LINEAL INCH 50 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH 70 LBS. PER LINEAL INCH
SLURRY FLOW RATE	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT

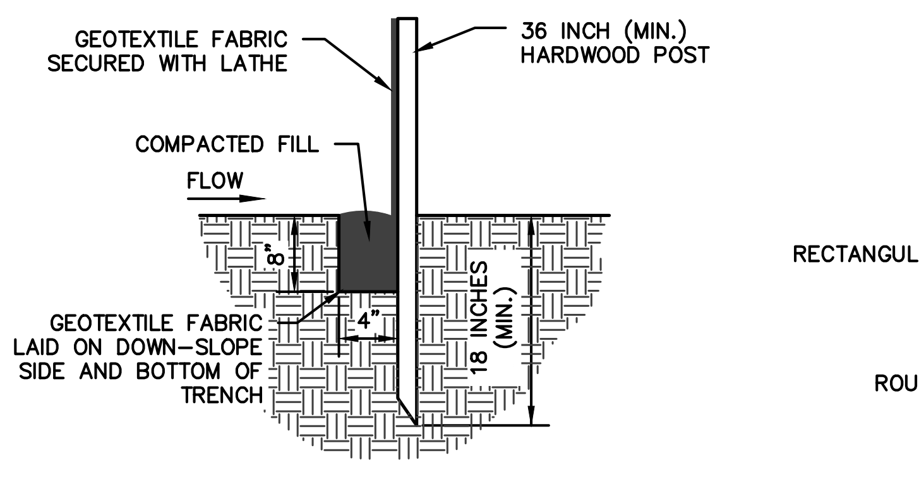
INSTALLATION
1. DIG AN EIGHT–INCH DEEP, FOUR–INCH WIDE TRENCH AROUND THE PERIMETER OF THE INLET.
2. IF USING PRE–ASSEMBLED GEOTEXTILE FABRIC AND POSTS, DRIVE THE POSTS INTO THE SOIL, TIGHTLY STRETCHING THE GEOTEXTILE FABRIC BETWEEN POSTS AS EACH IS DRIVEN. (POSTS MUST BE PLACED ON THE INLET SIDE OF THE ANCHOR TRENCH WITH THE GEOTEXTILE FABRIC ON THE SIDE OF THE TRENCH FARTHEST FROM THE INLET.)

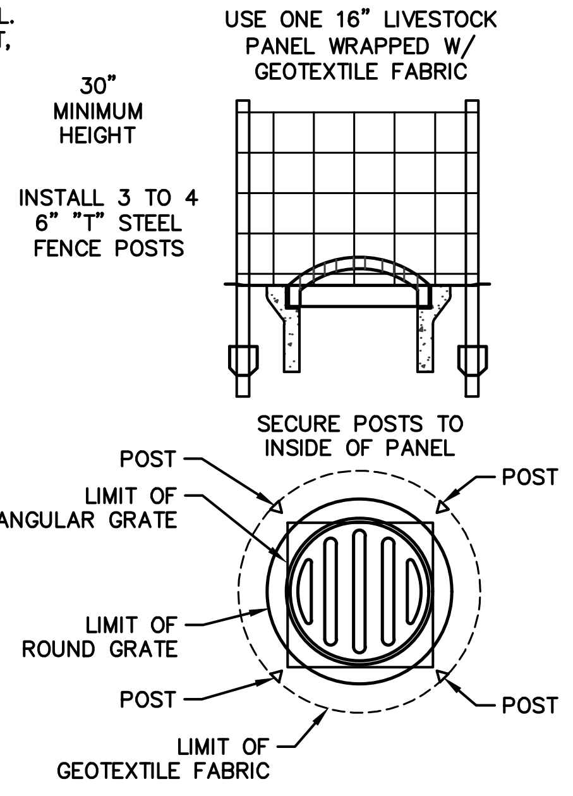
   NOTE: IF ASSEMBLING THE GEOTEXTILE FABRIC AND POSTS ON–SITE, DRIVE THE POSTS INTO THE SOIL AND THEN SECURE THE GEOTEXTILE FABRIC TO THE POSTS BY PLACING A PIECE OF LATHE OVER THE FABRIC AND FASTENING IT TO THE POST (STRETCHING THE FABRIC BETWEEN POSTS AS IT IS FASTENED).
3. USE THE WRAP JOIN METHOD WHEN JOINING POSTS.
4. PLACE THE BOTTOM 12 INCHES OF GEOTEXTILE FABRIC INTO THE EIGHT–INCH DEEP TRENCH, LAYING THE REMAINING FOUR INCHES IN THE BOTTOM OF THE TRENCH AND EXTENDING AWAY FROM THE INLET.
5. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.
6. BRACE THE POSTS BY NAILING BRACES INTO EACH CORNER POST OR UTILIZE RIGID PANELS TO SUPPORT FABRIC.

NOTE: IN SITUATIONS WHERE STORM WATER MAY BYPASS THE STRUCTURE, EITHER:
- SET THE TOP OF THE GEOTEXTILE FABRIC FILTER AT LEAST SIX INCHES LOWER THAN THE GROUND ELEVATION ON THE DOWN–SLOPE SIDE OF THE STORM DRAIN INLET,
- BUILD A TEMPORARY DIKE, COMPACTED TO SIX INCHES HIGHER THAN THE FABRIC, ON THE DOWN–SLOPE SIDE OF THE STORM DRAIN INLET, AND/OR
- USE IN CONJUNCTION WITH EXCAVATED DROP INLET PROTECTION.

MAINTENANCE
- INSPECT DAILY.
- INSPECT GEOTEXTILE FABRIC AND MAKE NEEDED REPAIRS IMMEDIATELY.
- REMOVE SEDIMENT FROM POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM EVENT. AVOID DAMAGING OR UNDERCUTTING FABRIC DURING SEDIMENT REMOVAL.
- WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE SEDIMENT, PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL, GRADE AREA TO THE ELEVATION OF THE STORM DRAIN INLET TOP, THEN STABILIZE IMMEDIATELY.


36 IN. (MAX.)
PROVIDE CROSS BRACING WHEN NECESSARY
12 TO 18 IN.
18 IN. (MIN.)
BURIED GEOTEXTILE FABRIC


GEOTEXTILE FABRIC SECURED WITH LATHE
36 INCH (MIN.) HARDWOOD POST
COMPACTED FILL
FLOW
8"
4"
18 INCHES (MIN.)
GEOTEXTILE FABRIC LAID ON DOWN–SLOPE SIDE AND BOTTOM OF TRENCH


USE ONE 16" LIVESTOCK PANEL WRAPPED W/ GEOTEXTILE FABRIC
30" MINIMUM HEIGHT
INSTALL 3 TO 4 6" "T" STEEL FENCE POSTS
SECURE POSTS TO INSIDE OF PANEL
POST
LIMIT OF RECTANGULAR GRATE
POST
LIMIT OF ROUND GRATE
POST
POST
LIMIT OF GEOTEXTILE FABRIC

NOTE: THIS MEASURE IS NOT RECOMMENDED FOR PAVED SURFACES DUE TO INABILITY TO ENTRENCH THE FABRIC AND LACK OF AN ANCHORING SYSTEM.

GDI CONSTRUCTION
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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

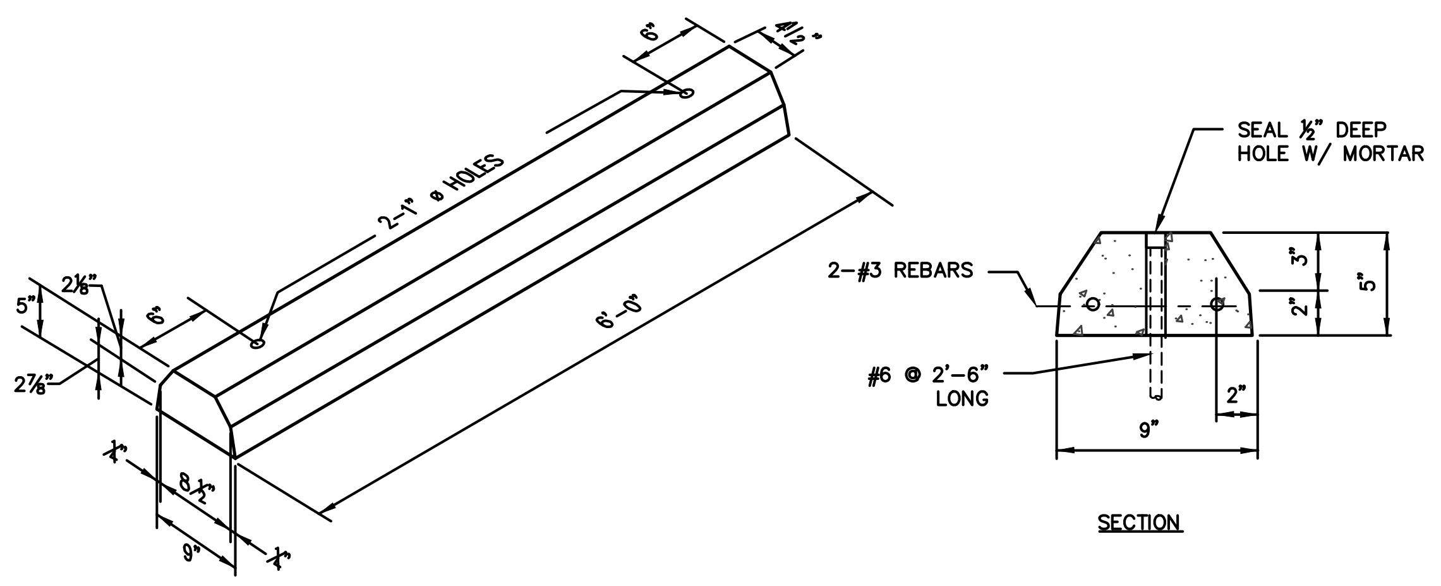
NO.	DESCRIPTION	DATE

Project Number 2019.02798

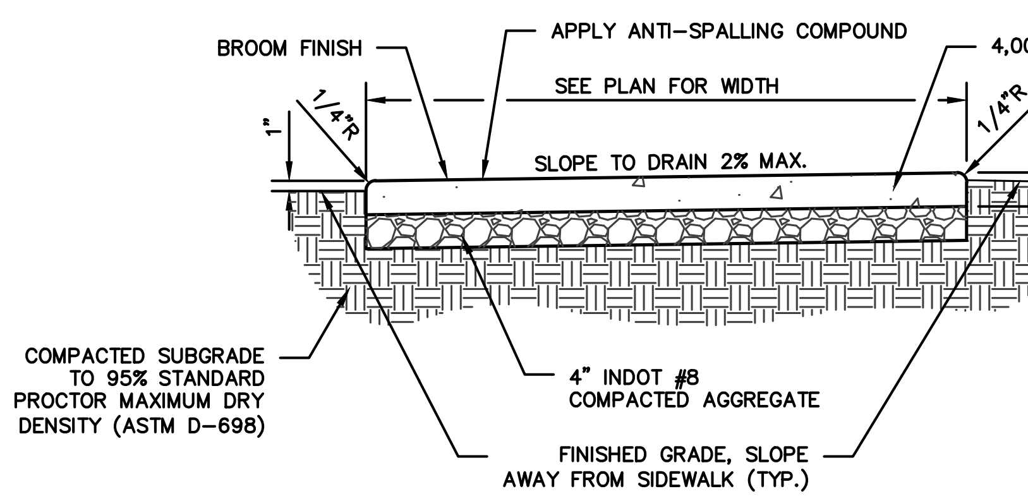
EROSION CONTROL DETAILS

C521

PLOT DATE: 12/2/2020 1:08 PM PLOT SCALE: 1:2.5849 EDIT DATE: 3/13/2020 EDITED BY: DWALLACE DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C520.ECD.dwg

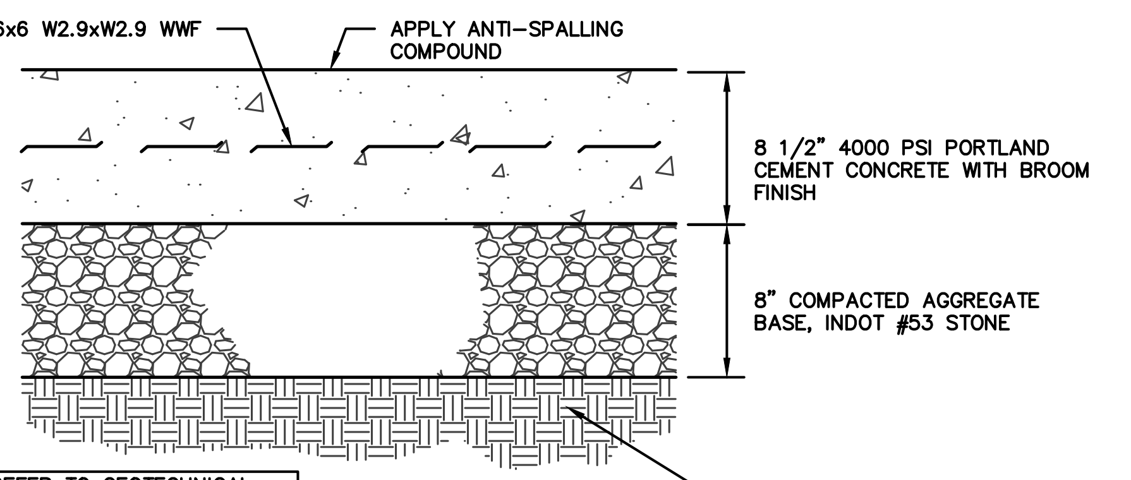

6"
4 1/2"
2-1" ø HOLES
6'-0"
5"
2 1/8"
2 7/8"
6"
1/4"
8 1/2"
9"
SEAL ½" DEEP HOLE W/ MORTAR
2-#3 REBARS
#6 @ 2'-6" LONG
3"
2"
5"
2"
9"
SECTION

CONCRETE WHEEL STOPS
NOT TO SCALE (REV. 01/17)


BROOM FINISH
APPLY ANTI-SPALLING COMPOUND
4,000 PSI CONCRETE
SEE PLAN FOR WIDTH
1/4"R
1"
4"
SLOPE TO DRAIN 2% MAX.
COMPACTED SUBGRADE TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698)
4" INDOT #8 COMPACTED AGGREGATE
FINISHED GRADE, SLOPE AWAY FROM SIDEWALK (TYP.)

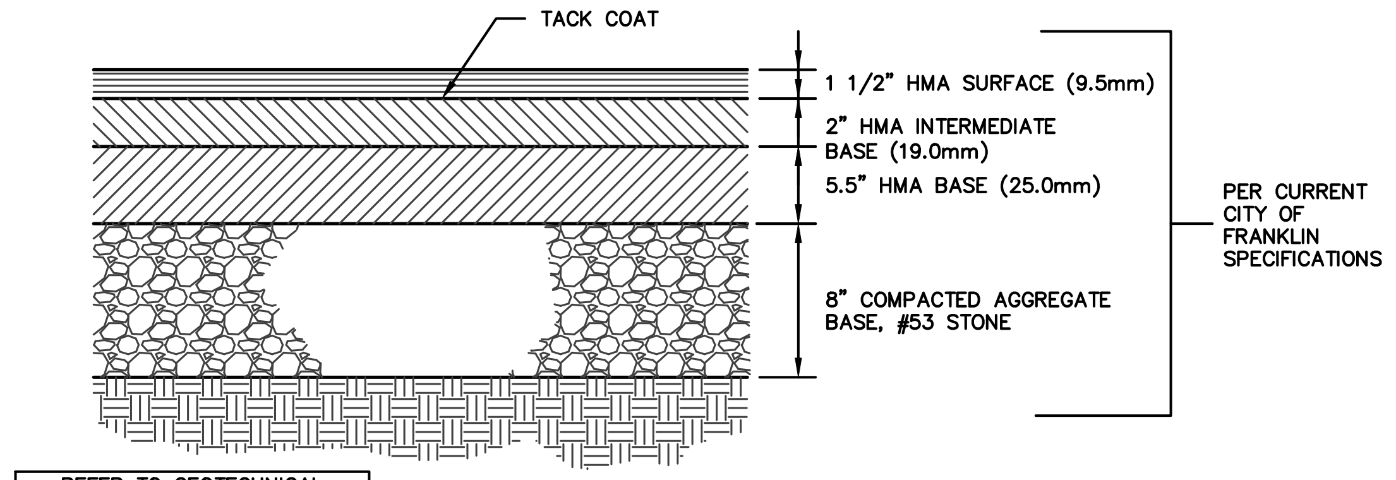
NOTE:
PROVIDE EXPANSION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS. CONTROL JOINTS AT 5'-0" O.C. OR AS SHOWN ON SITE PLANS, WITH EXPANSION JOINTS AT 30'-0" O.C. MAX.

CONCRETE SIDEWALK
NOT TO SCALE (REV. 10/17)


6x6 W2.9xW2.9 WWF
APPLY ANTI-SPALLING COMPOUND
8 1/2" 4000 PSI PORTLAND CEMENT CONCRETE WITH BROOM FINISH
8" COMPACTED AGGREGATE BASE, INDOT #53 STONE
COMPACTED SUBGRADE TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698)

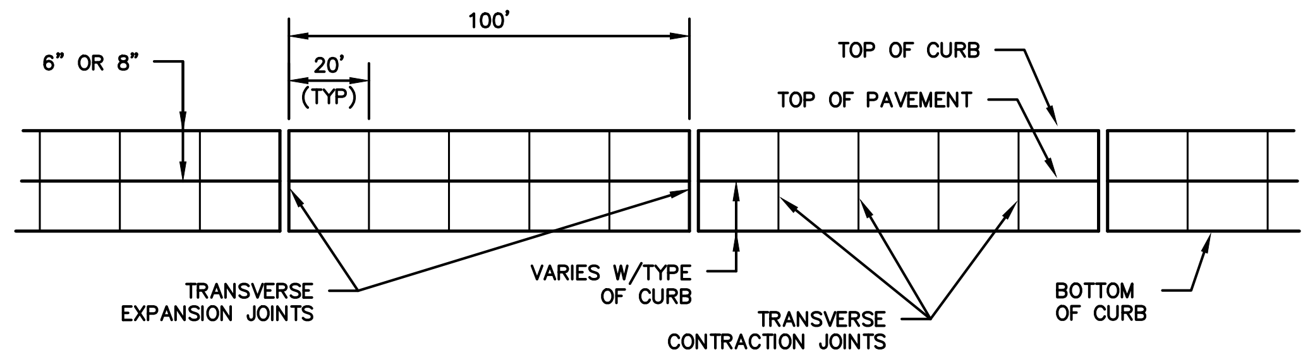
REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE PREPARATION.

HEAVY DUTY CONCRETE PAVEMENT
NOT TO SCALE (REV. 06/17)

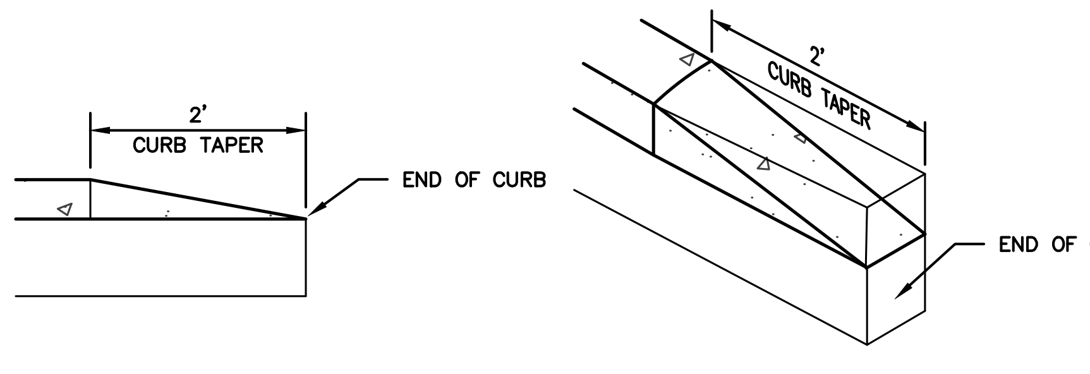

TACK COAT
1 1/2" HMA SURFACE (9.5mm)
2" HMA INTERMEDIATE BASE (19.0mm)
5.5" HMA BASE (25.0mm)
8" COMPACTED AGGREGATE BASE, #53 STONE
PER CURRENT CITY OF FRANKLIN SPECIFICATIONS

REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE PREPARATION.

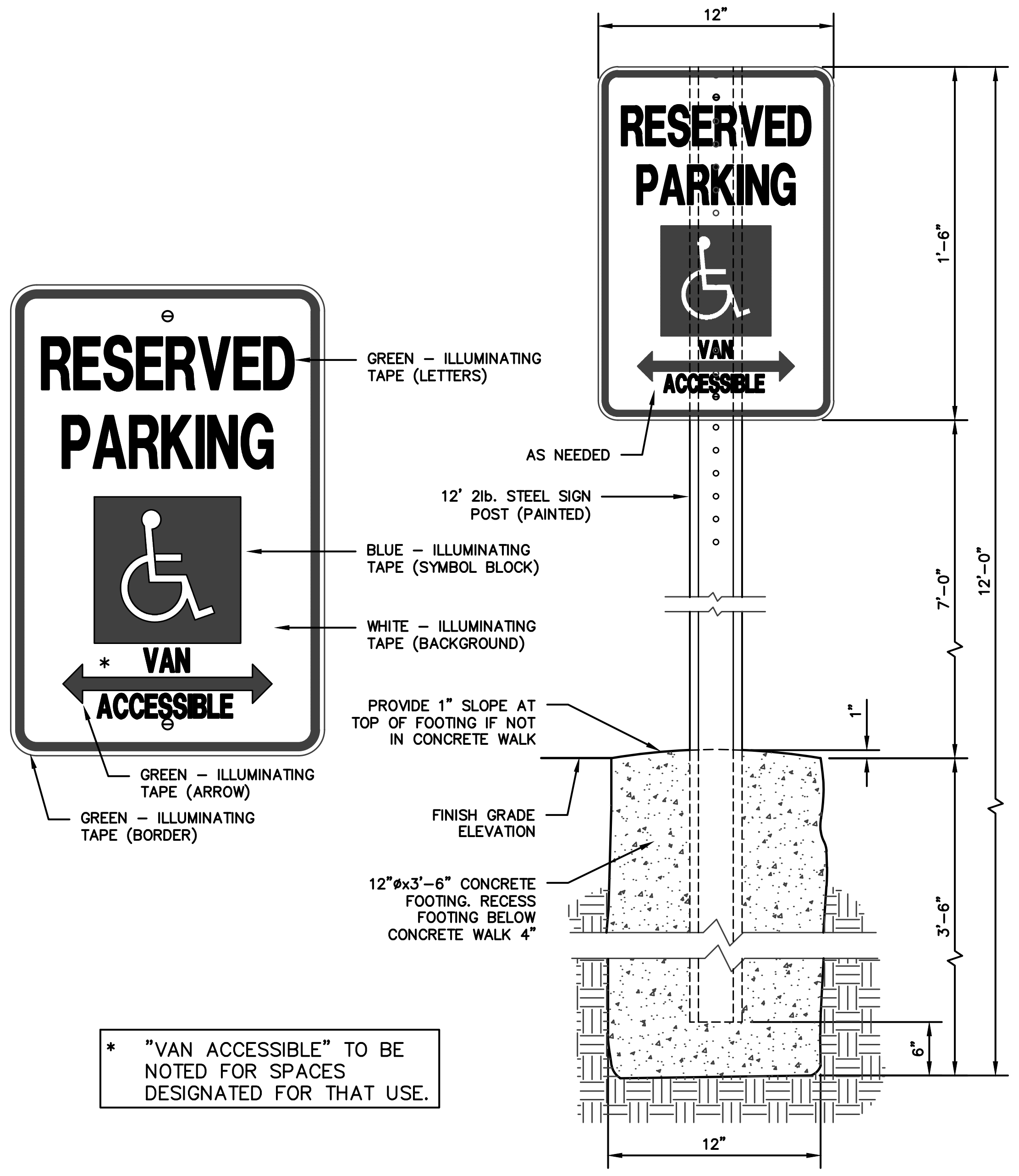
RIGHT OF WAY PAVEMENT SECTION
NOT TO SCALE (REV. 06/17)


6" OR 8"
100'
20' (TYP)
TOP OF CURB
TOP OF PAVEMENT
TRANSVERSE EXPANSION JOINTS
VARIES W/TYPE OF CURB
TRANSVERSE CONTRACTION JOINTS
BOTTOM OF CURB

CURB JOINT DETAIL
NOT TO SCALE (REV. 01/17)

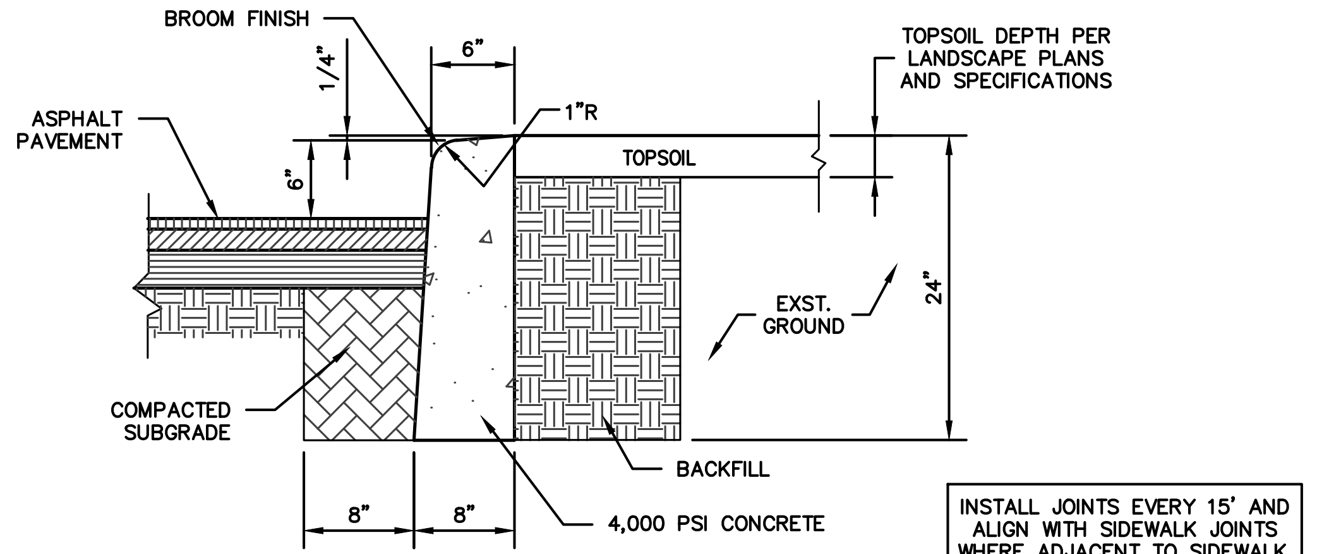

2'
CURB TAPER
END OF CURB
2'
CURB TAPER
END OF CURB

CURB TAPER DETAIL
NOT TO SCALE (REV. 01-17)


12"
RESERVED PARKING
VAN ACCESSIBLE
1'-6"
7'-0"
12'-0"
3'-6"
6"
1"
12"
RESERVED PARKING
VAN ACCESSIBLE
GREEN – ILLUMINATING TAPE (LETTERS)
AS NEEDED
12' 2lb. STEEL SIGN POST (PAINTED)
BLUE – ILLUMINATING TAPE (SYMBOL BLOCK)
WHITE – ILLUMINATING TAPE (BACKGROUND)
PROVIDE 1" SLOPE AT TOP OF FOOTING IF NOT IN CONCRETE WALK
GREEN – ILLUMINATING TAPE (ARROW)
GREEN – ILLUMINATING TAPE (BORDER)
FINISH GRADE ELEVATION
12"øx3'-6" CONCRETE FOOTING. RECESS FOOTING BELOW CONCRETE WALK 4"

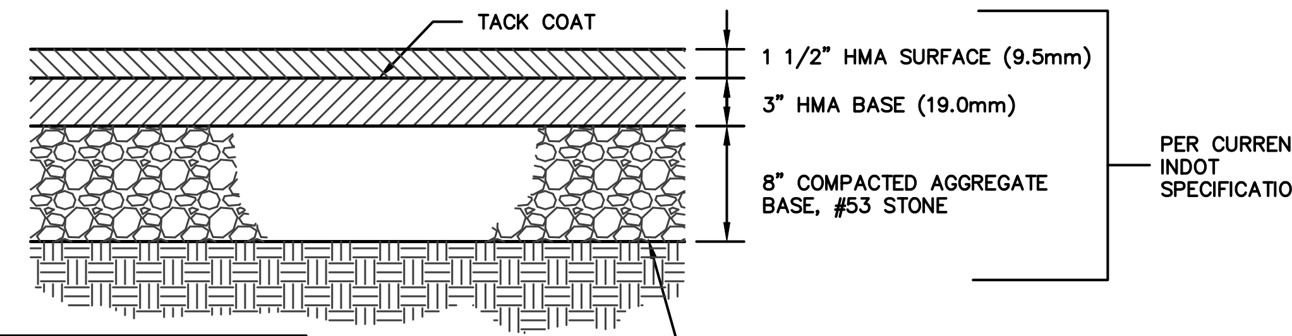
* "VAN ACCESSIBLE" TO BE NOTED FOR SPACES DESIGNATED FOR THAT USE.

ADA ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE (REV. 01/17)


BROOM FINISH
1/4"
6"
1"R
ASPHALT PAVEMENT
6"
TOPSOIL
TOPSOIL DEPTH PER LANDSCAPE PLANS AND SPECIFICATIONS
EXST. GROUND
24"
COMPACTED SUBGRADE
BACKFILL
8"
8"
4,000 PSI CONCRETE

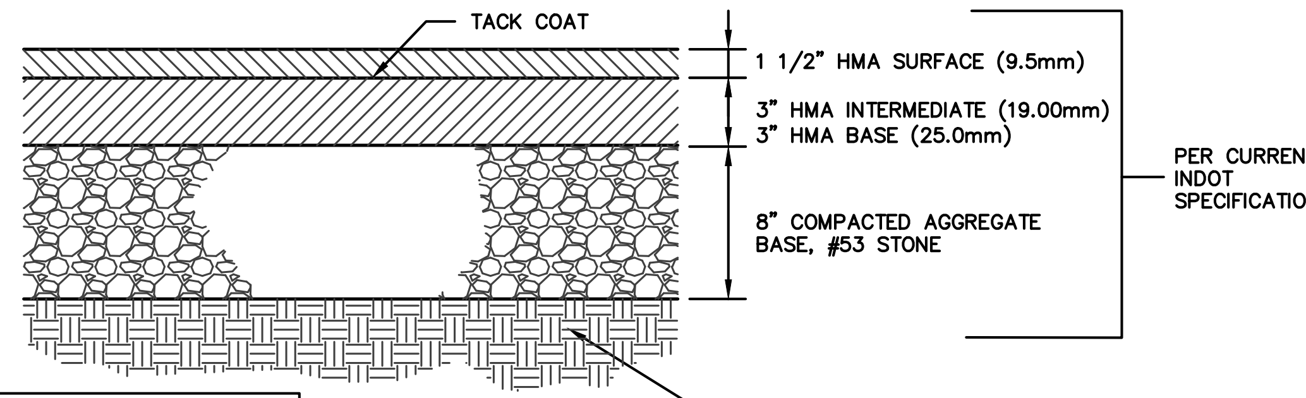
INSTALL JOINTS EVERY 15' AND ALIGN WITH SIDEWALK JOINTS WHERE ADJACENT TO SIDEWALK.

6" CONCRETE CURB
NOT TO SCALE (REV. 01/17)


TACK COAT
1 1/2" HMA SURFACE (9.5mm)
3" HMA BASE (19.0mm)
8" COMPACTED AGGREGATE BASE, #53 STONE
PER CURRENT INDOT SPECIFICATIONS
COMPACTED SUBGRADE TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698)

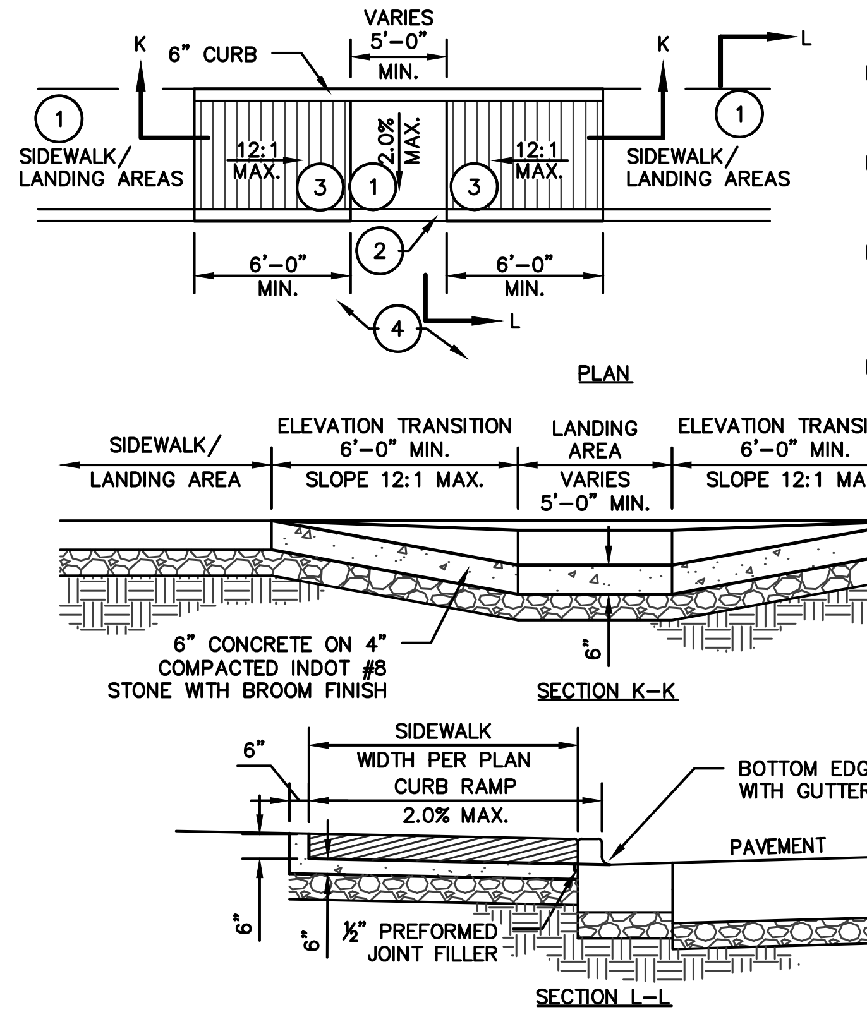
REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE PREPARATION.

LIGHT DUTY ASPHALT PAVEMENT
NOT TO SCALE (REV. 09/19)


TACK COAT
1 1/2" HMA SURFACE (9.5mm)
3" HMA INTERMEDIATE (19.00mm)
3" HMA BASE (25.0mm)
8" COMPACTED AGGREGATE BASE, #53 STONE
PER CURRENT INDOT SPECIFICATIONS
COMPACTED SUBGRADE TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698)

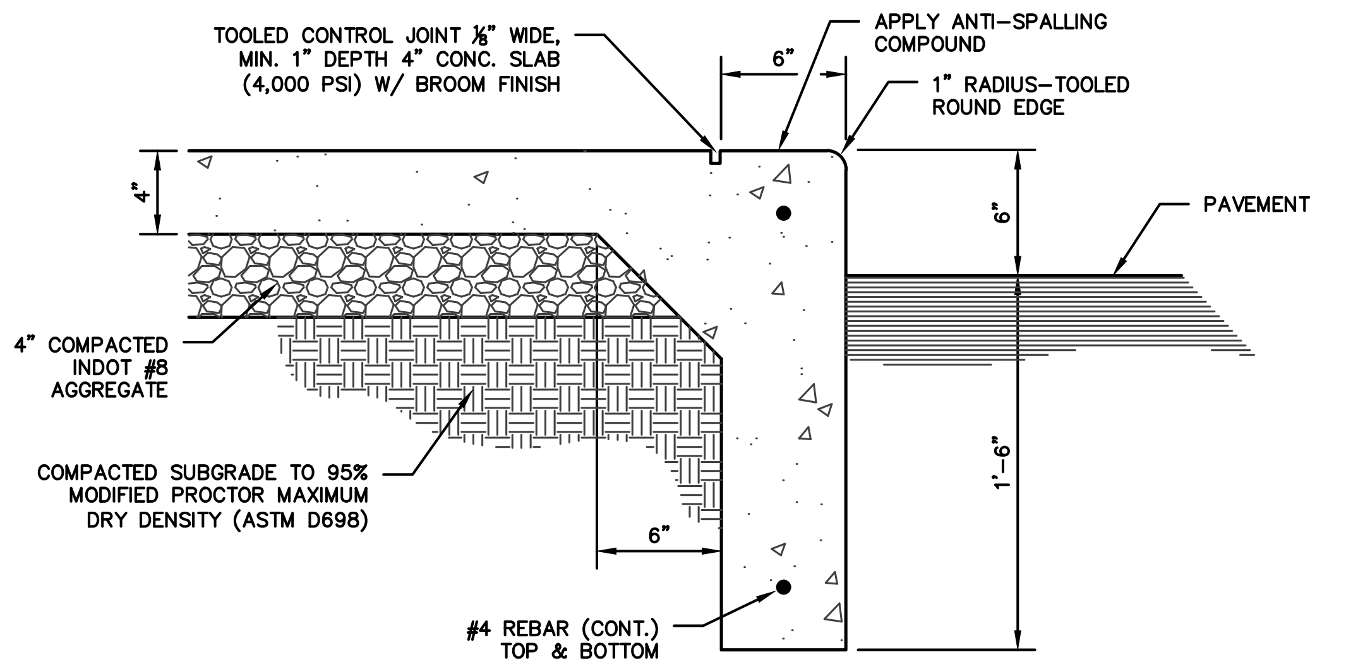
REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE PREPARATION.

HEAVY DUTY ASPHALT PAVEMENT
NOT TO SCALE (REV. 06/17)


VARIES 5'-0" MIN.
K
6" CURB
K
L
①
SIDEWALK/ LANDING AREAS
12:1 MAX.
2.0% MAX.
③
①
③
12:1 MAX.
①
SIDEWALK/ LANDING AREAS
6'-0" MIN.
②
6'-0" MIN.
④
L
PLAN
SIDEWALK/ LANDING AREA
ELEVATION TRANSITION 6'-0" MIN. SLOPE 12:1 MAX.
LANDING AREA VARIES 5'-0" MIN.
ELEVATION TRANSITION 6'-0" MIN. SLOPE 12:1 MAX.
SIDEWALK/ LANDING AREA
6" CONCRETE ON 4" COMPACTED INDOT #8 STONE WITH BROOM FINISH
6"
SECTION K-K
6"
SIDEWALK WIDTH PER PLAN
CURB RAMP
2.0% MAX.
BOTTOM EDGE OF RAMP TO BE FLUSH WITH GUTTER FLOWLINE OR PAVEMENT
PAVEMENT
6"
6"
½" PREFORMED JOINT FILLER
SECTION L-L

NOTES:
1. ① LANDING AREAS AT TOP OF BOTTOM OF RAMP SHALL HAVE A MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION.
2. ② THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE PAVEMENT OR GUTTER LINE.
3. ③ TOOLED GROOVES ON SIDEWALK ELEVATION TRANSITION. GROOVES SHALL BE 0.3" DEEP AND SPACED 2" O.C. ALONG SIDEWALK ELEVATION TRANSITION.
4. ④ APPROACH AREA SHALL BE SLOPED AT 50:1 MAXIMUM TRANSVERSELY

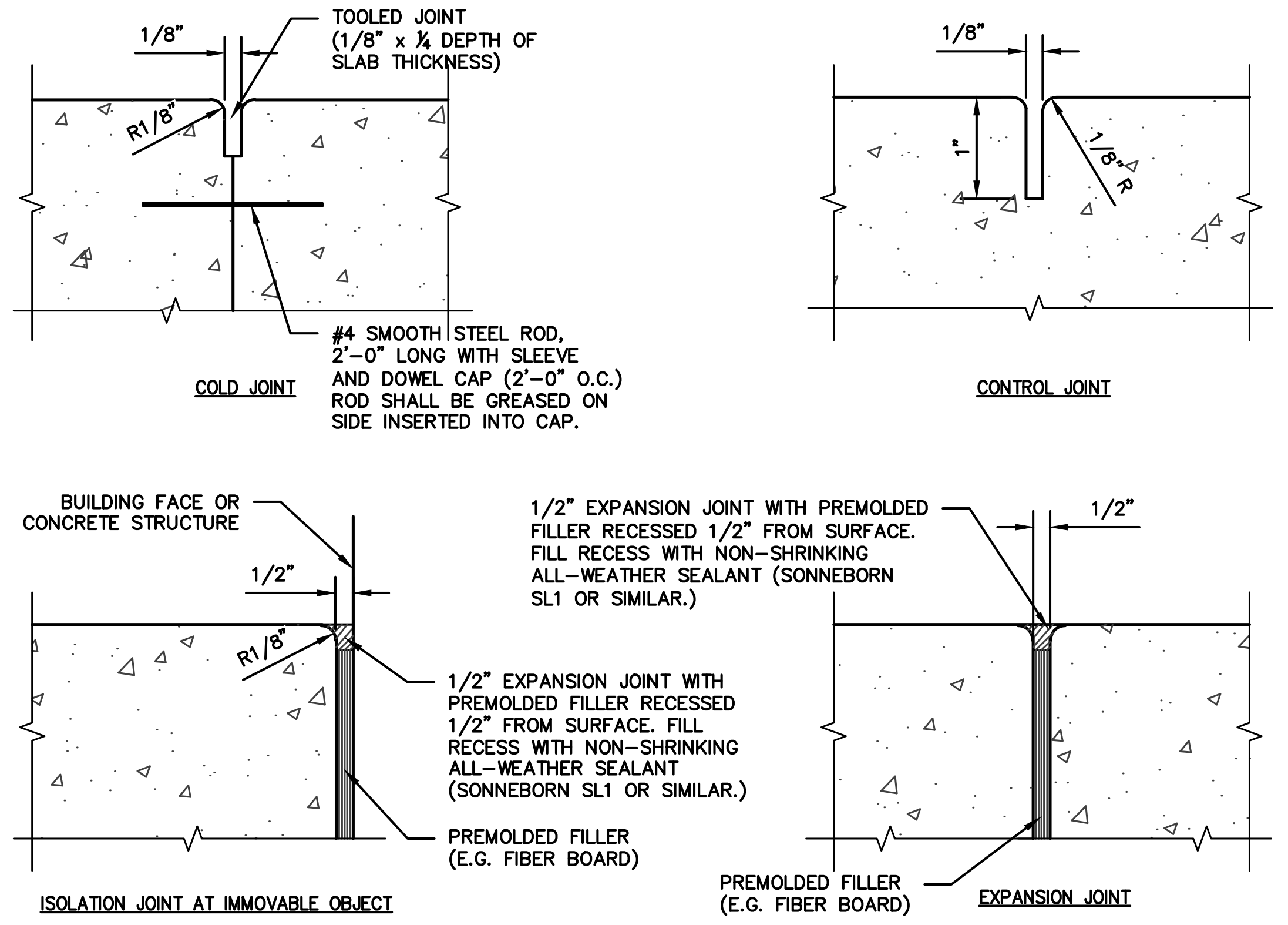
ADA ACCESSIBLE RAMP, TYPE 'K'
NOT TO SCALE (REV. 12/17)


TOOLED CONTROL JOINT ⅛" WIDE, MIN. 1" DEPTH 4" CONC. SLAB (4,000 PSI) W/ BROOM FINISH
6"
APPLY ANTI-SPALLING COMPOUND
1" RADIUS-TOOLED ROUND EDGE
4"
6"
PAVEMENT
4" COMPACTED INDOT #8 AGGREGATE
COMPACTED SUBGRADE TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D698)
6"
1'-6"
#4 REBAR (CONT.) TOP & BOTTOM

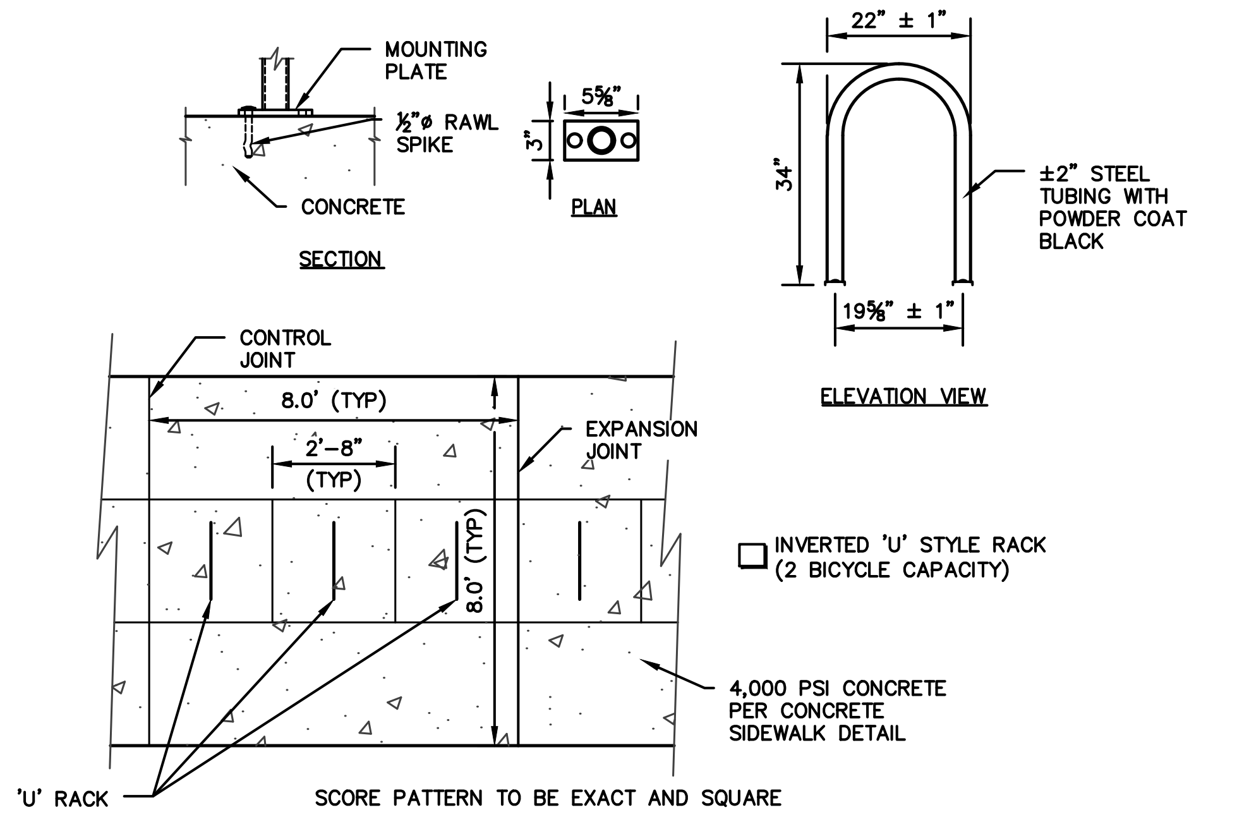
REFER TO TYPICAL CONCRETE JOINT DETAILS ON THIS SHEET FOR JOINTING INFORMATION.

NOTE:
PROVIDE ISOLATION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS. CONTROL JOINTS AT 5'-0" O.C. OR AS SHOWN ON SITE PLANS, WITH EXPANSION JOINTS AT 30'-0" O.C. MAX.

COMBINED CONCRETE CURB AND WALK
NOT TO SCALE (REV. 01/17)

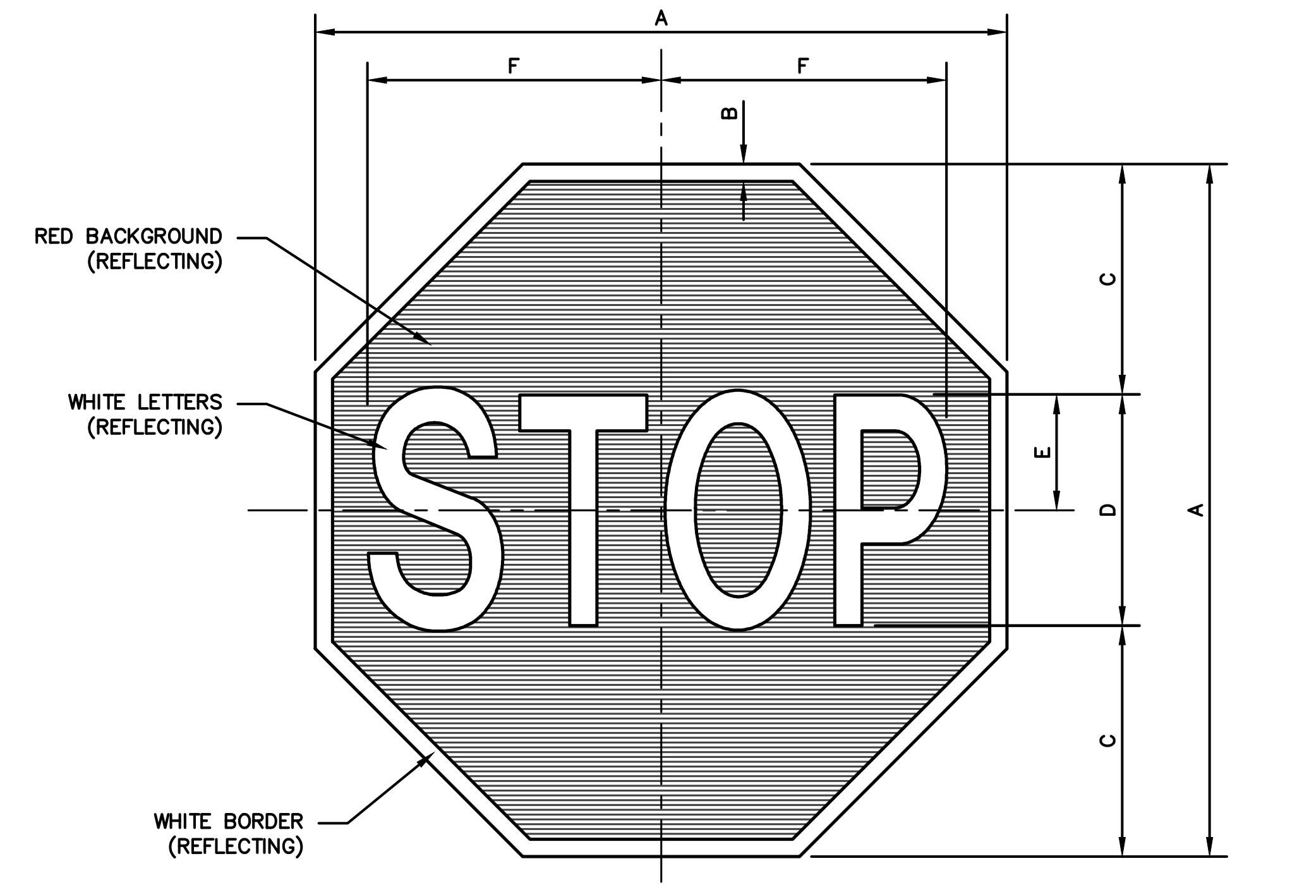

1/8"
TOOLED JOINT (1/8" x ¼ DEPTH OF SLAB THICKNESS)
R1/8"
#4 SMOOTH STEEL ROD, 2'-0" LONG WITH SLEEVE AND DOWEL CAP (2'-0" O.C.) ROD SHALL BE GREASED ON SIDE INSERTED INTO CAP.
COLD JOINT
1/8"
1"
1/8"R
CONTROL JOINT
BUILDING FACE OR CONCRETE STRUCTURE
1/2"
R1/8"
1/2" EXPANSION JOINT WITH PREMOLDED FILLER RECESSED 1/2" FROM SURFACE. FILL RECESS WITH NON-SHRINKING ALL-WEATHER SEALANT (SONNEBORN SL1 OR SIMILAR.)
PREMOLDED FILLER (E.G. FIBER BOARD)
ISOLATION JOINT AT IMMOVABLE OBJECT
1/2" EXPANSION JOINT WITH PREMOLDED FILLER RECESSED 1/2" FROM SURFACE. FILL RECESS WITH NON-SHRINKING ALL-WEATHER SEALANT (SONNEBORN SL1 OR SIMILAR.)
1/2"
PREMOLDED FILLER (E.G. FIBER BOARD)
EXPANSION JOINT

TYPICAL CONCRETE JOINT DETAILS
NOT TO SCALE (REV. 01/17)


MOUNTING PLATE
½"ø RAWL SPIKE
CONCRETE
SECTION
5⅝"
3"
PLAN
22" ± 1"
34"
±2" STEEL TUBING WITH POWDER COAT BLACK
19⅝" ± 1"
ELEVATION VIEW
CONTROL JOINT
8.0' (TYP)
2'-8" (TYP)
8.0' (TYP)
EXPANSION JOINT
☐ INVERTED 'U' STYLE RACK (2 BICYCLE CAPACITY)
4,000 PSI CONCRETE PER CONCRETE SIDEWALK DETAIL
'U' RACK
SCORE PATTERN TO BE EXACT AND SQUARE

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. U RACKS TO BE POWDER COATED BLACK
3. SEE SITE PLAN FOR LOCATION.
4. RACK TO BE SURFACE MOUNTED TO CONCRETE PAD PER MANUFACTURER'S RECOMMENDATIONS.

BIKE RACK ('U' STYLE)
NOT TO SCALE (REV. 01/17)


A
F
F
B
RED BACKGROUND (REFLECTING)
WHITE LETTERS (REFLECTING)
STOP
C
E
D
A
C
WHITE BORDER (REFLECTING)

* REDUCE SPACING 40%

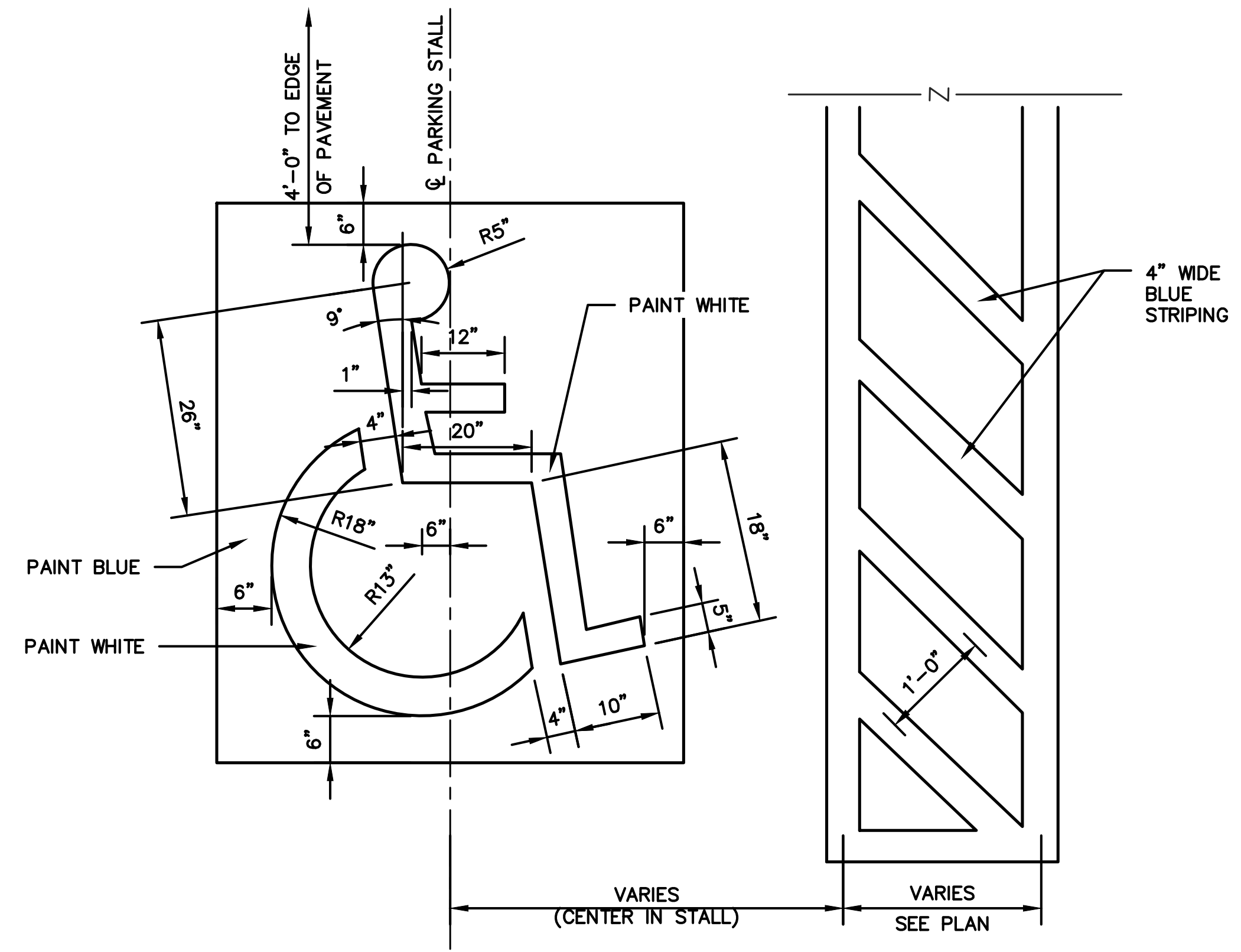
SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
STD.	30	3/4"	10	10C	5	12 1/2"

R1-1

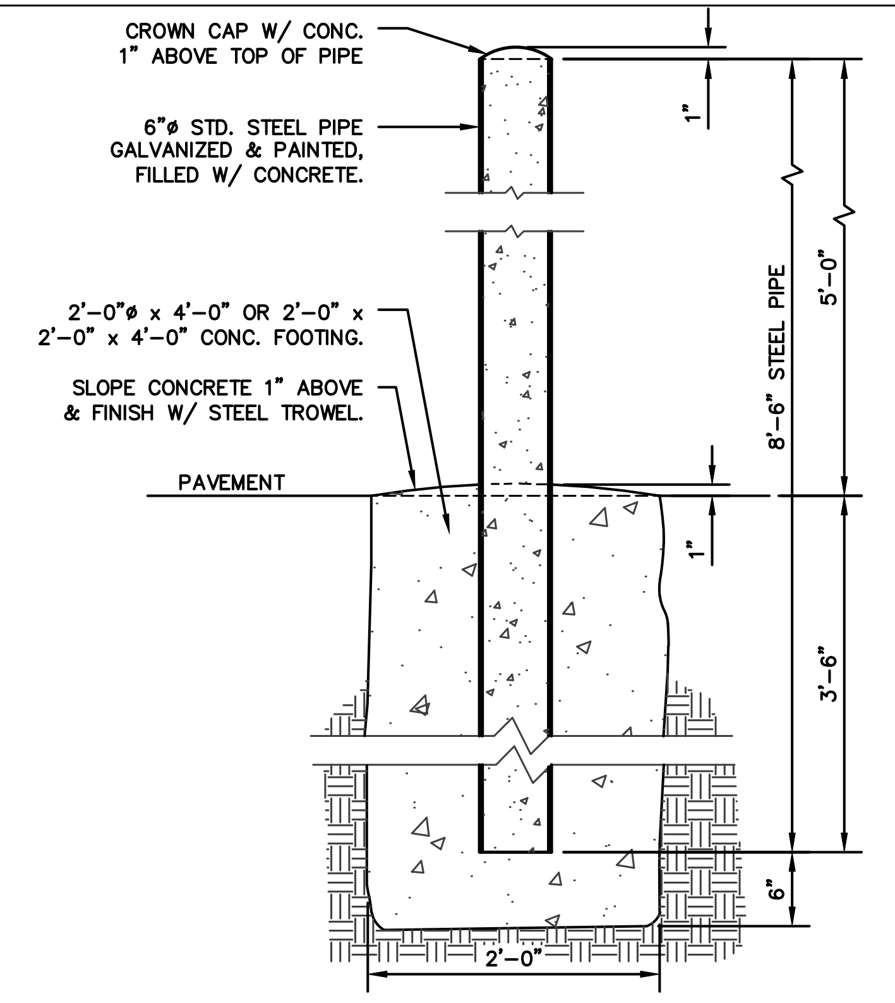
NOTES:
MOUNTING HEIGHT – 7' ABOVE GRADE.

COLORS
LEGEND – WHITE (REFLECTIVE)
BACKGROUND – RED (REFLECTIVE)

STOP SIGN DETAIL
NOT TO SCALE (REV. 05/18)


4'-0" TO EDGE OF PAVEMENT
℄ PARKING STALL
6"
R5"
9°
12"
1"
26"
4"
20"
PAINT WHITE
R18"
6"
R13"
PAINT BLUE
6"
PAINT WHITE
6"
18"
5"
4"
10"
6"
4" WIDE BLUE STRIPING
1'-0"
VARIES (CENTER IN STALL)
VARIES SEE PLAN

ADA PARKING SYMBOL AND STRIPING
NOT TO SCALE (REV. 01/17)


CROWN CAP W/ CONC. 1" ABOVE TOP OF PIPE
1"
6"ø STD. STEEL PIPE GALVANIZED & PAINTED, FILLED W/ CONCRETE.
8'-6" STEEL PIPE
5'-0"
2'-0"ø x 4'-0" OR 2'-0" x 2'-0" x 4'-0" CONC. FOOTING.
SLOPE CONCRETE 1" ABOVE & FINISH W/ STEEL TROWEL.
PAVEMENT
1"
3'-6"
6"
2'-0"

CONCRETE BOLLARD DETAIL
NOT TO SCALE (REV. 07/19)

PLOT DATE: 12/3/2020 1:08 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C600.SD.dwg

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81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLAS...
No. PE11800804
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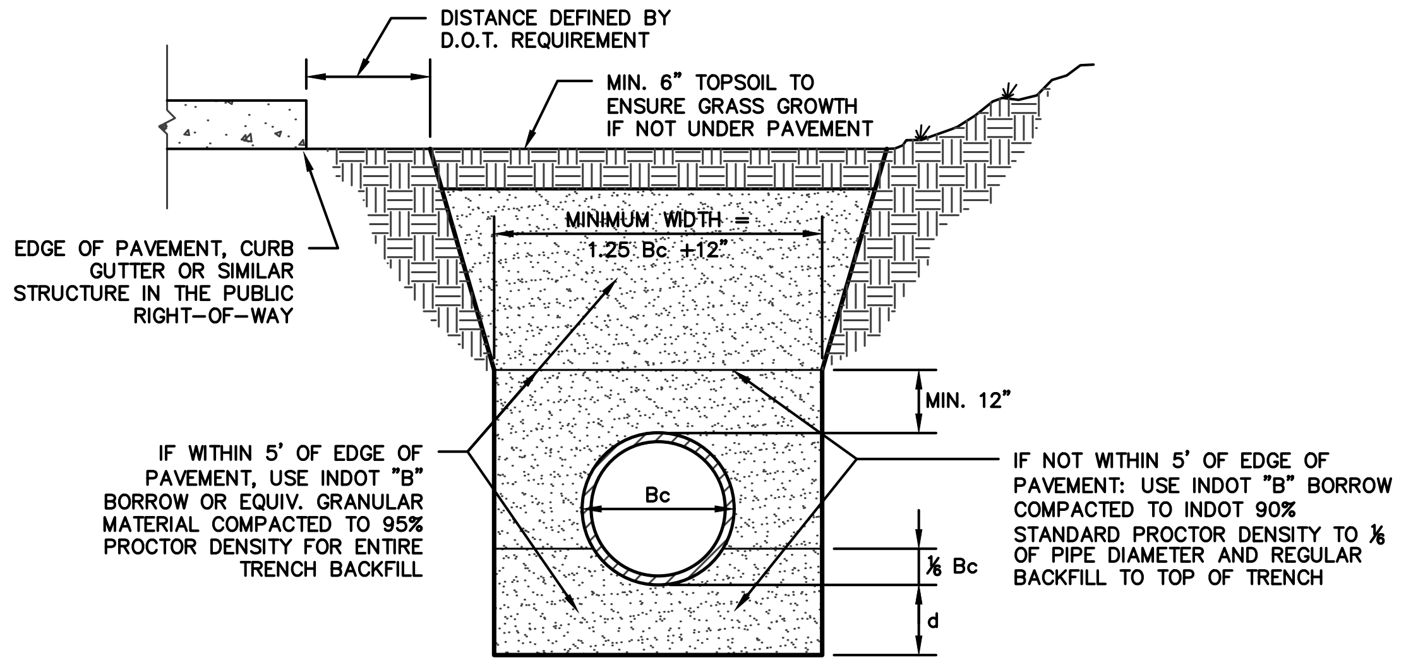
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

SITE DETAILS

C600


DISTANCE DEFINED BY D.O.T. REQUIREMENT
MIN. 6" TOPSOIL TO ENSURE GRASS GROWTH IF NOT UNDER PAVEMENT
EDGE OF PAVEMENT, CURB GUTTER OR SIMILAR STRUCTURE IN THE PUBLIC RIGHT-OF-WAY
MINIMUM WIDTH = 1.25 Bc +12"
MIN. 12"
Bc
⅙ Bc
d
IF WITHIN 5' OF EDGE OF PAVEMENT, USE INDOT "B" BORROW OR EQUIV. GRANULAR MATERIAL COMPACTED TO 95% PROCTOR DENSITY FOR ENTIRE TRENCH BACKFILL
IF NOT WITHIN 5' OF EDGE OF PAVEMENT: USE INDOT "B" BORROW COMPACTED TO INDOT 90% STANDARD PROCTOR DENSITY TO ⅙ OF PIPE DIAMETER AND REGULAR BACKFILL TO TOP OF TRENCH

LEGEND
Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

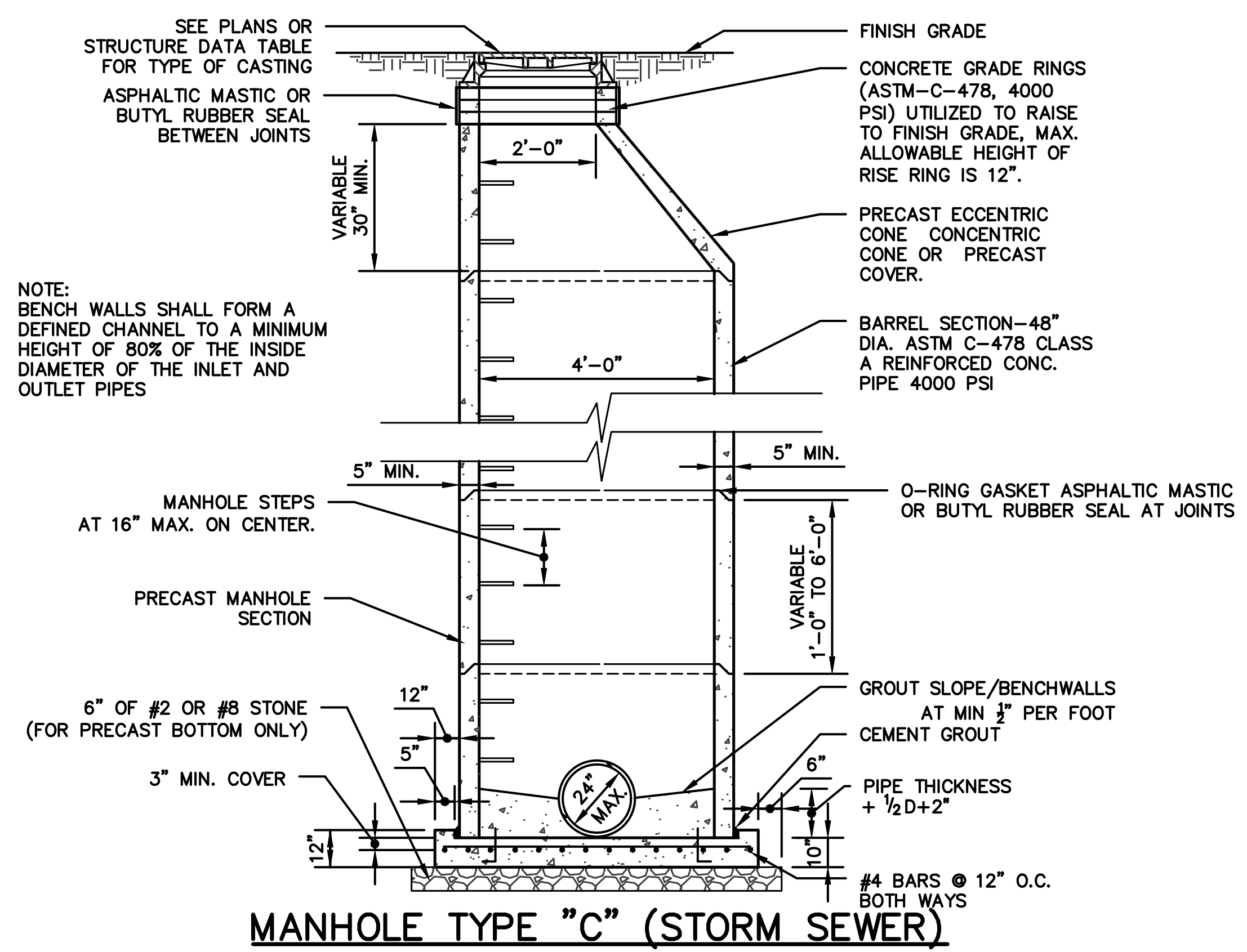
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

D	d (MIN)
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

REINFORCED CONCRETE PIPE (RCP) BEDDING DETAIL

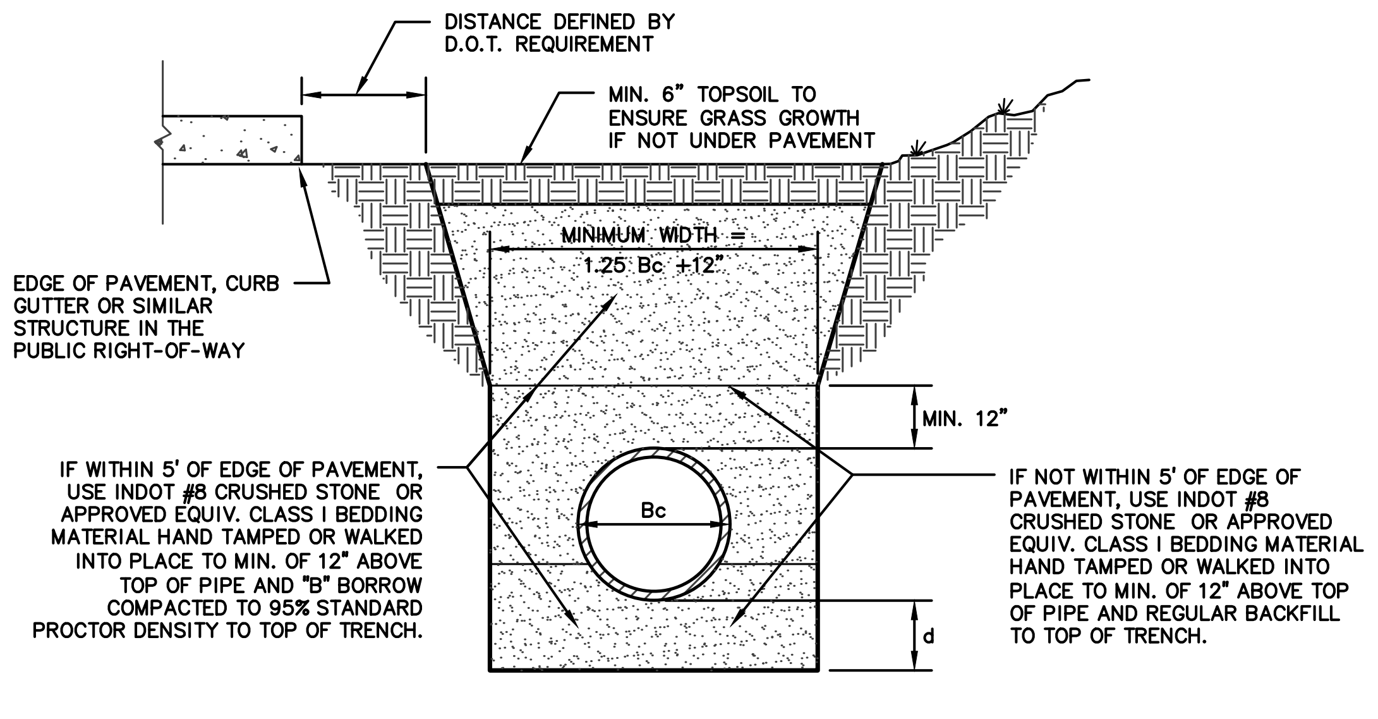
NOT TO SCALE (REV. 12/17)


SEE PLANS OR STRUCTURE DATA TABLE FOR TYPE OF CASTING
ASPHALTIC MASTIC OR BUTYL RUBBER SEAL BETWEEN JOINTS
VARIABLE 30" MIN.
2'-0"
4'-0"
5" MIN.
MANHOLE STEPS AT 16" MAX. ON CENTER.
PRECAST MANHOLE SECTION
6" OF #2 OR #8 STONE (FOR PRECAST BOTTOM ONLY)
3" MIN. COVER
12"
5"
12"
24" MAX.
FINISH GRADE
CONCRETE GRADE RINGS (ASTM-C-478, 4000 PSI) UTILIZED TO RAISE TO FINISH GRADE, MAX. ALLOWABLE HEIGHT OF RISE RING IS 12".
PRECAST ECCENTRIC CONE CONCENTRIC CONE OR PRECAST COVER.
BARREL SECTION-48" DIA. ASTM C-478 CLASS A REINFORCED CONC. PIPE 4000 PSI
5" MIN.
O-RING GASKET ASPHALTIC MASTIC OR BUTYL RUBBER SEAL AT JOINTS
VARIABLE 1'-0" TO 6'-0"
GROUT SLOPE/BENCHWALLS AT MIN ½" PER FOOT
CEMENT GROUT
6"
PIPE THICKNESS + ½D+2"
10"
#4 BARS @ 12" O.C. BOTH WAYS

NOTE:
BENCH WALLS SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES

MANHOLE TYPE "C" (STORM SEWER)

NOT TO SCALE (REV. 06/17)


DISTANCE DEFINED BY D.O.T. REQUIREMENT
MIN. 6" TOPSOIL TO ENSURE GRASS GROWTH IF NOT UNDER PAVEMENT
EDGE OF PAVEMENT, CURB GUTTER OR SIMILAR STRUCTURE IN THE PUBLIC RIGHT-OF-WAY
MINIMUM WIDTH = 1.25 Bc +12"
MIN. 12"
Bc
d
IF WITHIN 5' OF EDGE OF PAVEMENT, USE INDOT #8 CRUSHED STONE OR APPROVED EQUIV. CLASS I BEDDING MATERIAL HAND TAMPED OR WALKED INTO PLACE TO MIN. OF 12" ABOVE TOP OF PIPE AND "B" BORROW COMPACTED TO 95% STANDARD PROCTOR DENSITY TO TOP OF TRENCH.
IF NOT WITHIN 5' OF EDGE OF PAVEMENT, USE INDOT #8 CRUSHED STONE OR APPROVED EQUIV. CLASS I BEDDING MATERIAL HAND TAMPED OR WALKED INTO PLACE TO MIN. OF 12" ABOVE TOP OF PIPE AND REGULAR BACKFILL TO TOP OF TRENCH.

LEGEND
Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

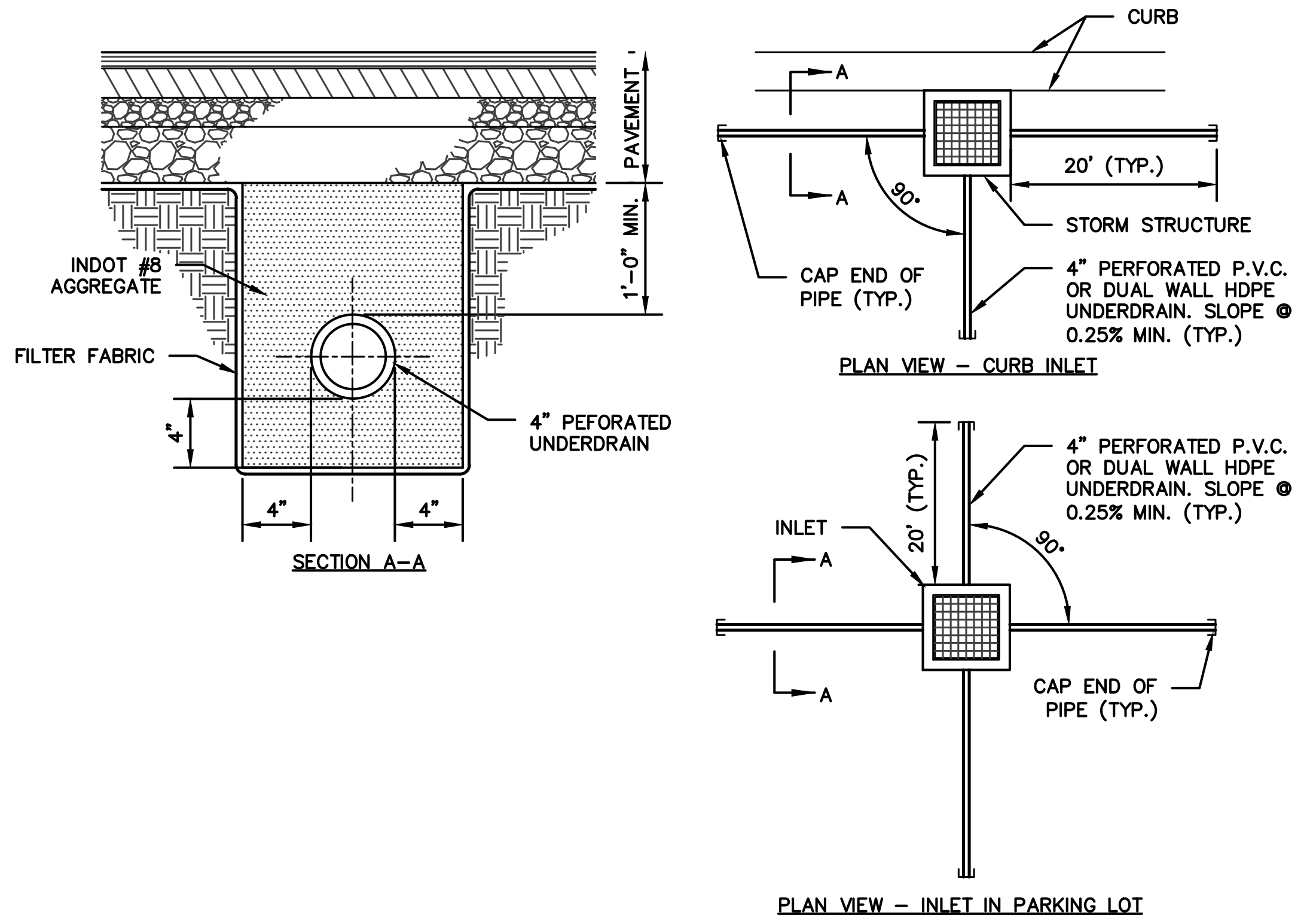
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

D	d (MIN)
27" & SMALLER	4"
30" TO 60"	4"
66" & LARGER	4"

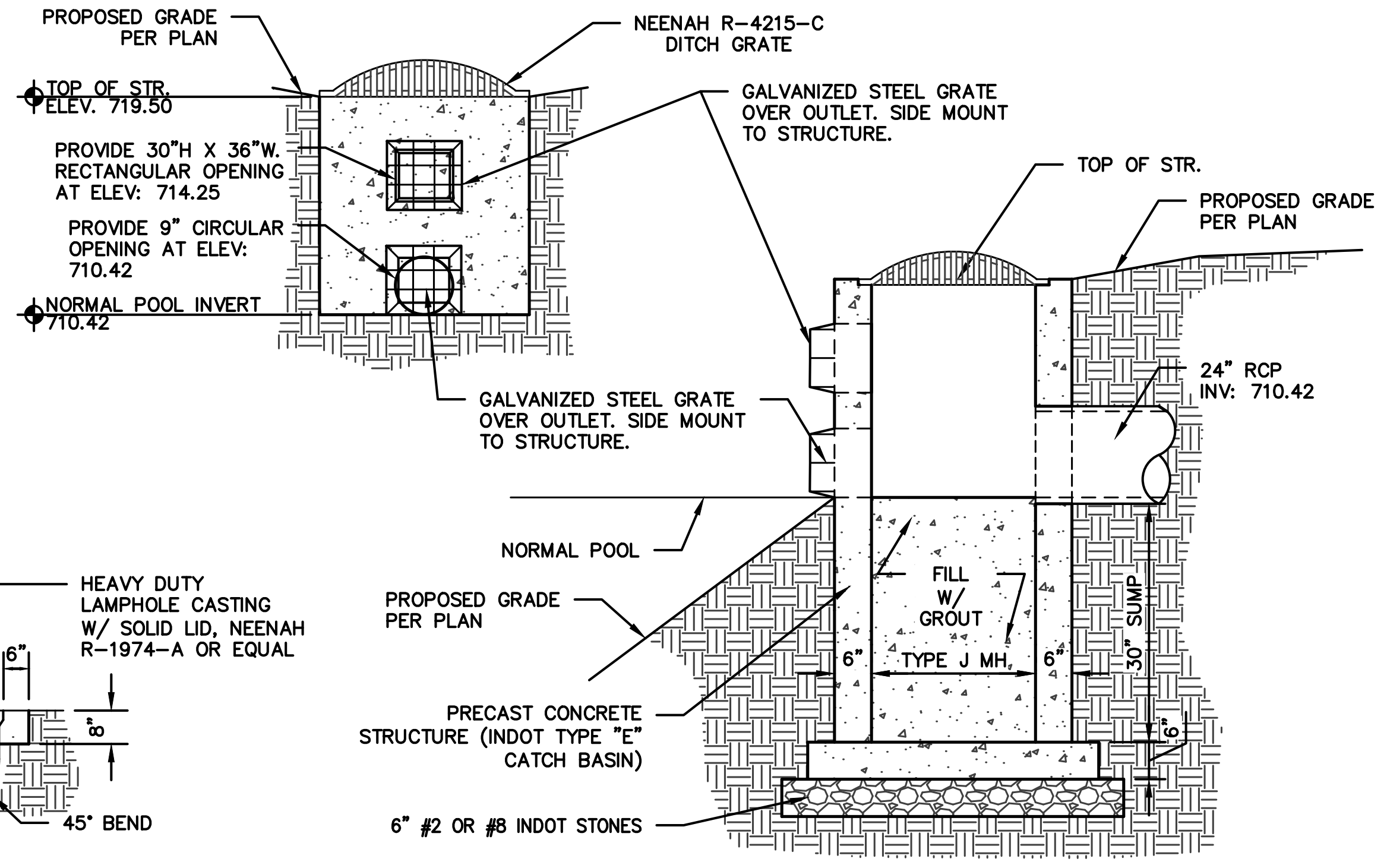
PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL

NOT TO SCALE (REV. 12/17)


PAVEMENT
1'-0" MIN.
INDOT #8 AGGREGATE
FILTER FABRIC
4" PEFORATED UNDERDRAIN
4"
4"
4"
SECTION A-A
CURB
A
A
90°
20' (TYP.)
STORM STRUCTURE
CAP END OF PIPE (TYP.)
4" PERFORATED P.V.C. OR DUAL WALL HDPE UNDERDRAIN. SLOPE @ 0.25% MIN. (TYP.)
PLAN VIEW – CURB INLET
4" PERFORATED P.V.C. OR DUAL WALL HDPE UNDERDRAIN. SLOPE @ 0.25% MIN. (TYP.)
INLET
20' (TYP.)
90°
CAP END OF PIPE (TYP.)
PLAN VIEW – INLET IN PARKING LOT

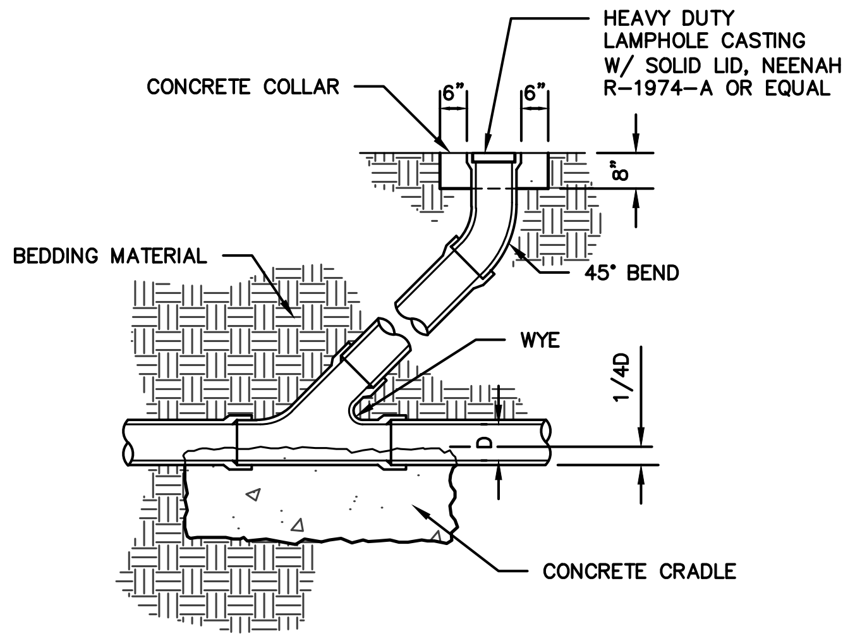
PAVEMENT UNDERDRAIN DETAIL

NOT TO SCALE (REV. 07/18)


PROPOSED GRADE PER PLAN
TOP OF STR. ELEV. 719.50
PROVIDE 30"H X 36"W. RECTANGULAR OPENING AT ELEV: 714.25
PROVIDE 9" CIRCULAR OPENING AT ELEV: 710.42
NORMAL POOL INVERT 710.42
NEENAH R-4215-C DITCH GRATE
GALVANIZED STEEL GRATE OVER OUTLET. SIDE MOUNT TO STRUCTURE.
GALVANIZED STEEL GRATE OVER OUTLET. SIDE MOUNT TO STRUCTURE.
TOP OF STR.
PROPOSED GRADE PER PLAN
24" RCP INV: 710.42
NORMAL POOL
PROPOSED GRADE PER PLAN
FILL W/ GROUT
6"
TYPE J MH
6"
30" SUMP
6"
PRECAST CONCRETE STRUCTURE (INDOT TYPE "E" CATCH BASIN)
6" #2 OR #8 INDOT STONES

POND OUTLET STRUCTURE DETAIL

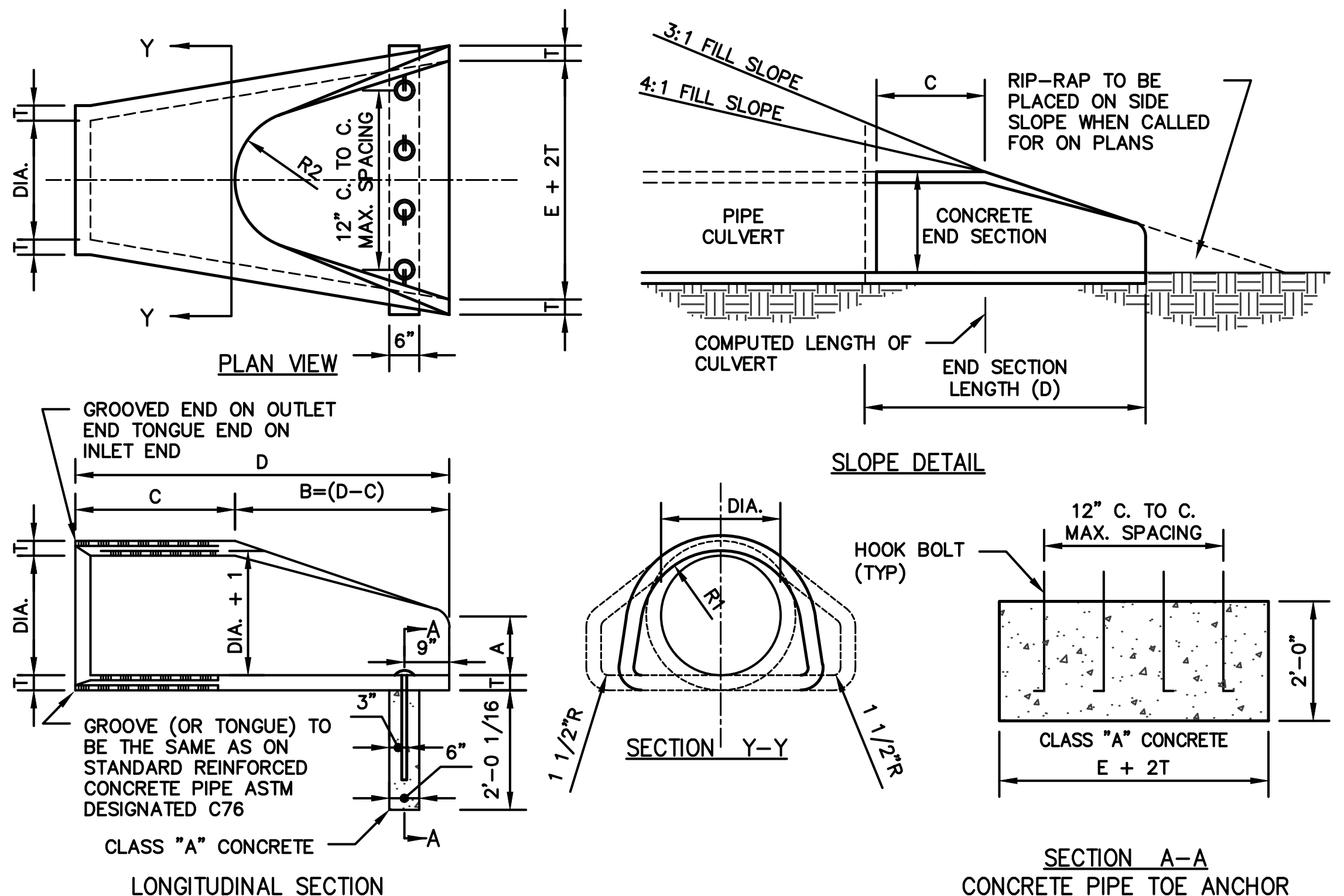
NOT TO SCALE (REV. 06/18)


CONCRETE COLLAR
6"
6"
HEAVY DUTY LAMPHOLE CASTING W/ SOLID LID, NEENAH R-1974-A OR EQUAL
8"
BEDDING MATERIAL
45° BEND
WYE
1/4D
D
CONCRETE CRADLE

NOTE:
BEDDING MATERIAL TO BE IN ACCORDANCE WITH PLASTIC PIPE (PVC AND HDPE) BEDDING DETAIL.

CLEANOUT DETAIL

NOT TO SCALE (REV. 01/17)


Y
Y
DIA.
T
T
R2
12" C. TO C. MAX. SPACING
E + 2T
T
T
6"
PLAN VIEW
3:1 FILL SLOPE
4:1 FILL SLOPE
C
RIP-RAP TO BE PLACED ON SIDE SLOPE WHEN CALLED FOR ON PLANS
PIPE CULVERT
CONCRETE END SECTION
COMPUTED LENGTH OF CULVERT
END SECTION LENGTH (D)
SLOPE DETAIL
GROOVED END ON OUTLET END TONGUE END ON INLET END
D
C
B=(D-C)
DIA.
DIA. + 1
A
9"
A
T
3"
6"
2'-0 1/16
GROOVE (OR TONGUE) TO BE THE SAME AS ON STANDARD REINFORCED CONCRETE PIPE ASTM DESIGNATED C76
CLASS "A" CONCRETE
A
LONGITUDINAL SECTION
DIA.
R1
1 1/2"R
1 1/2"R
SECTION Y-Y
12" C. TO C. MAX. SPACING
HOOK BOLT (TYP)
2'-0"
CLASS "A" CONCRETE
E + 2T
SECTION A-A
CONCRETE PIPE TOE ANCHOR

NOTES:

CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 FOR THE SIZE OF CONNECTING PIPE.

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

VARIATIONS IN DIMENSIONS – THE THICKNESS OR THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76.

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS.

DIA.	T (MIN.)	A*	C*	D*	E*	R1	R2
12"	2"	5"	4'-3"	6'-2"	2'-0"	10 1/8"	9"
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	12 1/2"	11"
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	15 1/2"	12"
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	16 1/8"	13"
24"	3"	12"	2'-8"	6'-3"	4'-0"	16 3/16"	14"
27"	3 1/4"	13"	2'-5"	6'-3"	4'-6"	18 3/16"	14 1/2"
30"	3 1/2"	14"	1'-10"	6'-3"	5'-0"	18 1/2"	15"
33"	3 3/4"	15"	3'-6"	8'-3"	5'-6"	23 3/4"	17 1/2"
36"	4"	17"	3'-1"	8'-3"	6'-0"	24 3/16"	20"
42"	4 1/2"	21"	2'-11"	8'-2"	7'-0"	27 1/2"	22"
48"	5"	24"	2'-2"	8'-2"	8'-0"	28 1/2"	22"
54"	5 1/2"	27"	2'-9"	8'-2"	9'-0"	33 1/8"	24"
60	6"	30"	3'-3"	8'-3"	10'-0"	36 11/16"	24"
66"	6 1/2"	30"	2'-3"	8'-3"	11'-0"	36 1/8"	24"
72"	7"	36"	1'-5"	8'-3"	9'-0"	*	*
84"	8"	36"	1'-5"	9'-3 1/2"	10'-0"	*	*

* RADIUS COMES FURNISHED BY MANUFACTURER

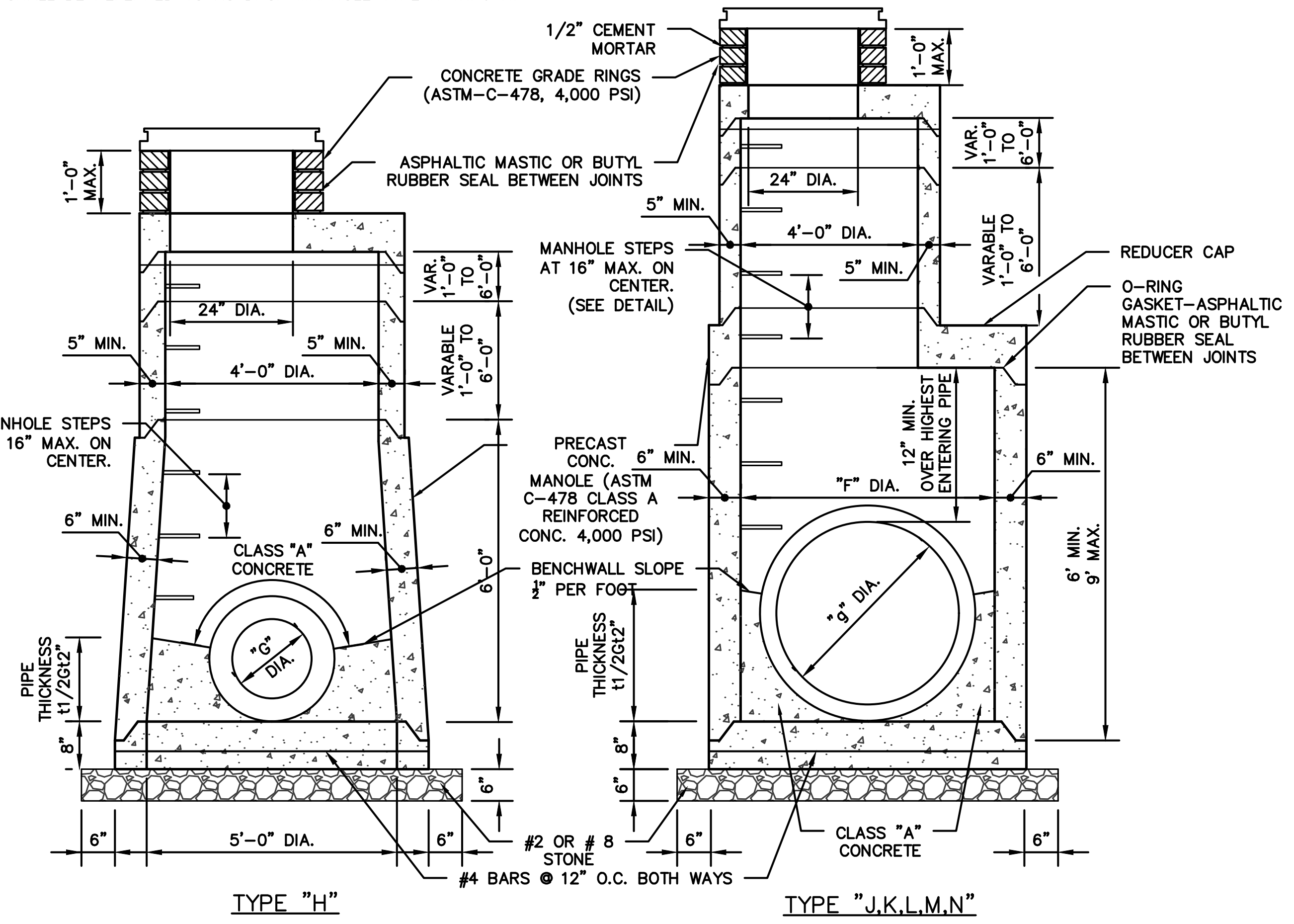
PRECAST CONCRETE END SECTION DETAIL

NOT TO SCALE (REV. 06/18)

MANHOLE

TYPE	"G"	"F"	MAXIMUM PIPE SIZE RT. ANGLE TO MAINLINE	MAXIMUM PIPE SIZE FOR MAINLINE
H	24"to36"		30"	36"
J	24"to36"	60"	33"	36"
K	36"x48"	72"	36"	48"
L	48"x54"	96"	48"	54"
M	54"x72"	102"	66"	72"
N	72"x84"	108"	72"	84"

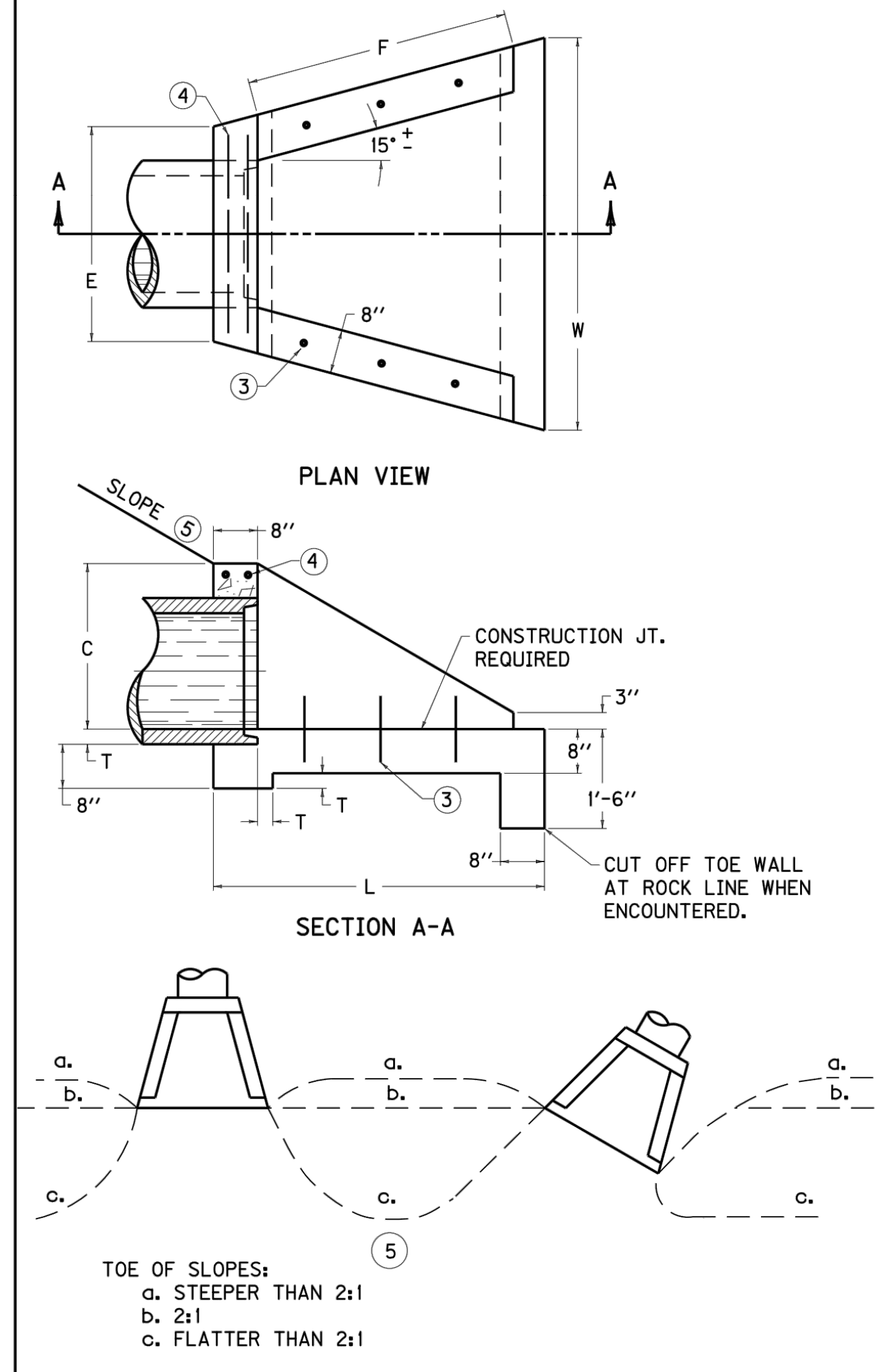
NOTES:
DROP PIPE MAY BE USED WITH MANHOLE'S TYPE H THRU N AND SHALL BE REFERRED TO AS DROP MANHOLE TYPE H THRU N.


1/2" CEMENT MORTAR
CONCRETE GRADE RINGS (ASTM-C-478, 4,000 PSI)
ASPHALTIC MASTIC OR BUTYL RUBBER SEAL BETWEEN JOINTS
1'-0" MAX.
24" DIA.
5" MIN.
4'-0" DIA.
5" MIN.
VAR. 1'-0" TO 6'-0"
VARABLE 1'-0" TO 6'-0"
MANHOLE STEPS AT 16" MAX. ON CENTER.
6" MIN.
CLASS "A" CONCRETE
6" MIN.
"G" DIA.
6'-0"
PIPE THICKNESS t1/2Gt2"
8"
6"
6"
5'-0" DIA.
6"
TYPE "H"
1'-0" MAX.
VAR. 1'-0" TO 6'-0"
24" DIA.
5" MIN.
4'-0" DIA.
5" MIN.
MANHOLE STEPS AT 16" MAX. ON CENTER. (SEE DETAIL)
VARABLE 1'-0" TO 6'-0"
REDUCER CAP
O-RING GASKET-ASPHALTIC MASTIC OR BUTYL RUBBER SEAL BETWEEN JOINTS
PRECAST CONC. MANOLE (ASTM C-478 CLASS A REINFORCED CONC. 4,000 PSI)
6" MIN.
12" MIN. OVER HIGHEST ENTERING PIPE
"F" DIA.
6" MIN.
6' MIN. 9' MAX.
BENCHWALL SLOPE ½" PER FOOT
"g" DIA.
PIPE THICKNESS t1/2Gt2"
8"
6"
#2 OR # 8 STONE
6"
CLASS "A" CONCRETE
6"
#4 BARS @ 12" O.C. BOTH WAYS
TYPE "J,K,L,M,N"

NOTE: BENCH WALLS SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES

MANHOLES TYPE "H,J,K,L,M & N" DETAIL

NOT TO SCALE (REV. 06/17)


F
④
15° ±
A
A
E
8"
W
③
PLAN VIEW
SLOPE ⑤
8"
④
C
CONSTRUCTION JT. REQUIRED
3"
8"
1'-6"
T
8"
T
T
③
8"
L
CUT OFF TOE WALL AT ROCK LINE WHEN ENCOUNTERED.
SECTION A-A
a.
b.
c.
a.
b.
c.
a.
b.
c.
⑤

TOE OF SLOPES:
- a. STEEPER THAN 2:1
- b. 2:1
- c. FLATTER THAN 2:1

PIPE DIA. OR EQUIV. DIA.	PIPE SHAPE ⑨	DIMENSIONS C	DIMENSIONS E	DIMENSIONS F	DIMENSIONS L	DIMENSIONS W	DIMENSIONS T	CLASS A CONC C. Y.	REINF STEEL LBS.
12″	○	1′-9″	2′-6″	2′-3″	3′-6″	4′-0″	2″	0.58	7
15″	○	2′-0″	2′-9″	2′-9″	4′-0″	4′-9″	2¼″	0.75	
	⌓	1′-9″	3′-0″	2′-6″	3′-6″	4′-9″		0.68	8
18″	○	2′-3″	3′-0″	3′-6″	4′-6″	5′-3″	2½″	0.93	
	⌓	2′-0″	3′-6″	3′-0″	4′-0″	5′-6″	2¾″	0.89	
	⬭								
21″	○	2′-6″	3′-3″	4′-0″	5′-0″	6′-0″		1.14	
	⌓	2′-3″	3′-0″	3′-6″	4′-6″	6′-0″		1.07	9
24″	○	2′-9″	3′-6″	4′-6″	5′-6″	6′-6″	3″	1.35	8
	⌓	2′-6″	4′-0″	4′-0″	5′-0″	6′-9″	3¼″	1.30	9
	⬭								
27″	○	3′-0″	3′-9″	5′-0″	6′-0″	7′-0″		1.57	
	⬭	2′-9″	4′-6″	4′-3″	5′-3″	7′-3″	3½″	1.51	10

NOTES

1. DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR CORRUGATED METAL PIPE.
2. REINFORCING STEEL : MINIMUM GRADE 40, BARS EVENLY SPACED.

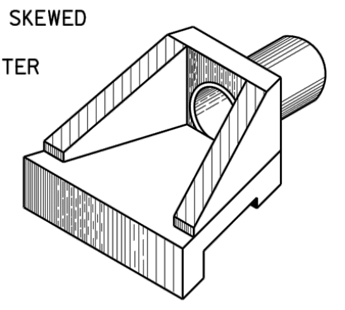
③ 6 - NO. 4 x 1′-0″ DOWEL BARS.

④ 2 - NO. 4 x (E DIMENSION MINUS 4″).

⑤ SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.

6. VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
7. WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.

⑨ HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12″- 27″ EQUIVALENT PIPE SIZES. SEE CURRENT STD. DWG. RDI-016, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.



ISOMETRIC VIEW

KENTUCKY
DEPARTMENT OF HIGHWAYS

SLOPED & FLARED
HEADWALLS FOR
12″ TO 27″ PIPE

STANDARD DRAWING NO. RDH-020-03
SUBMITTED 12-1-99
APPROVED 12-1-99

DETAIL PROVIDED AT JOHNSON CO. REQUEST

HEADWALL FOR DISCHARGE TO AMITY DITCH

NOT TO SCALE (REV. 06/17)

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.

9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

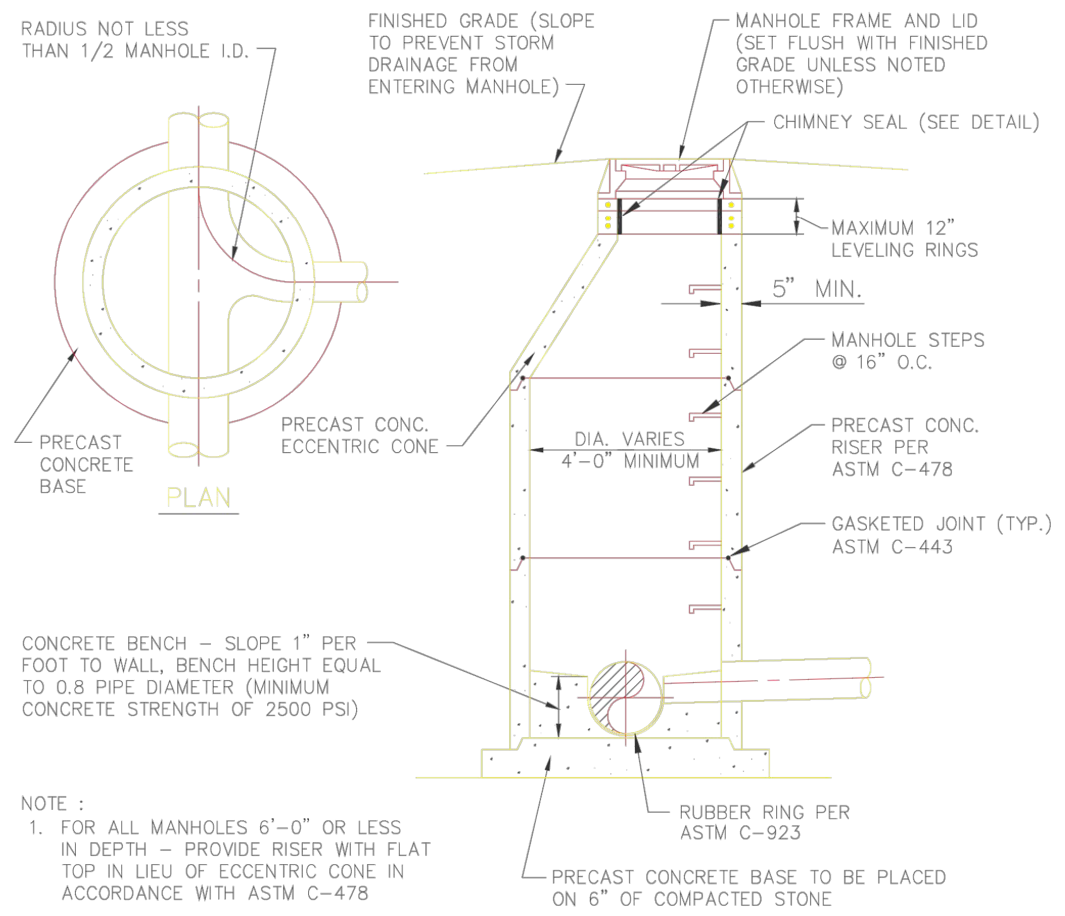
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

SITE DETAILS

C601


RADIUS NOT LESS THAN 1/2 MANHOLE I.D.
FINISHED GRADE (SLOPE TO PREVENT STORM DRAINAGE FROM ENTERING MANHOLE)
MANHOLE FRAME AND LID (SET FLUSH WITH FINISHED GRADE UNLESS NOTED OTHERWISE)
CHIMNEY SEAL (SEE DETAIL)
MAXIMUM 12" LEVELING RINGS
5" MIN.
MANHOLE STEPS @ 16" O.C.
PRECAST CONCRETE BASE
PLAN
PRECAST CONC. ECCENTRIC CONE
DIA. VARIES 4'-0" MINIMUM
PRECAST CONC. RISER PER ASTM C-478
GASKETED JOINT (TYP.) ASTM C-443
CONCRETE BENCH - SLOPE 1" PER FOOT TO WALL, BENCH HEIGHT EQUAL TO 0.8 PIPE DIAMETER (MINIMUM CONCRETE STRENGTH OF 2500 PSI)
RUBBER RING PER ASTM C-923
PRECAST CONCRETE BASE TO BE PLACED ON 6" OF COMPACTED STONE

NOTE :

1. FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH - PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478
2. THE CROWN OF THE INFLUENT PIPE SHALL BE AT OR ABOVE THE CROWN OF THE OUTLET PIPE
3. DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMMING LINE AND BOTTOM OF MANHOLE IS GREATER THAN TWO FEET.

STANDARD MANHOLE DETAIL

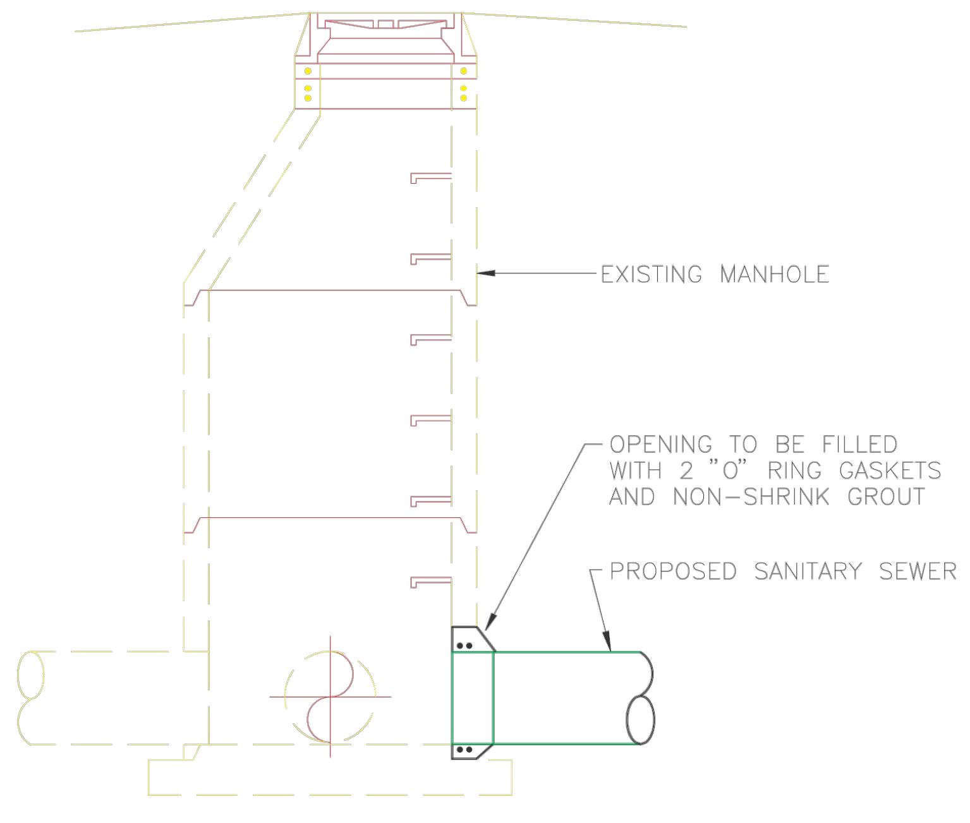
REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 5-1


EXISTING MANHOLE
OPENING TO BE FILLED WITH 2 "O" RING GASKETS AND NON-SHRINK GROUT
PROPOSED SANITARY SEWER

TYPICAL EXISTING MANHOLE ENTRY DETAIL

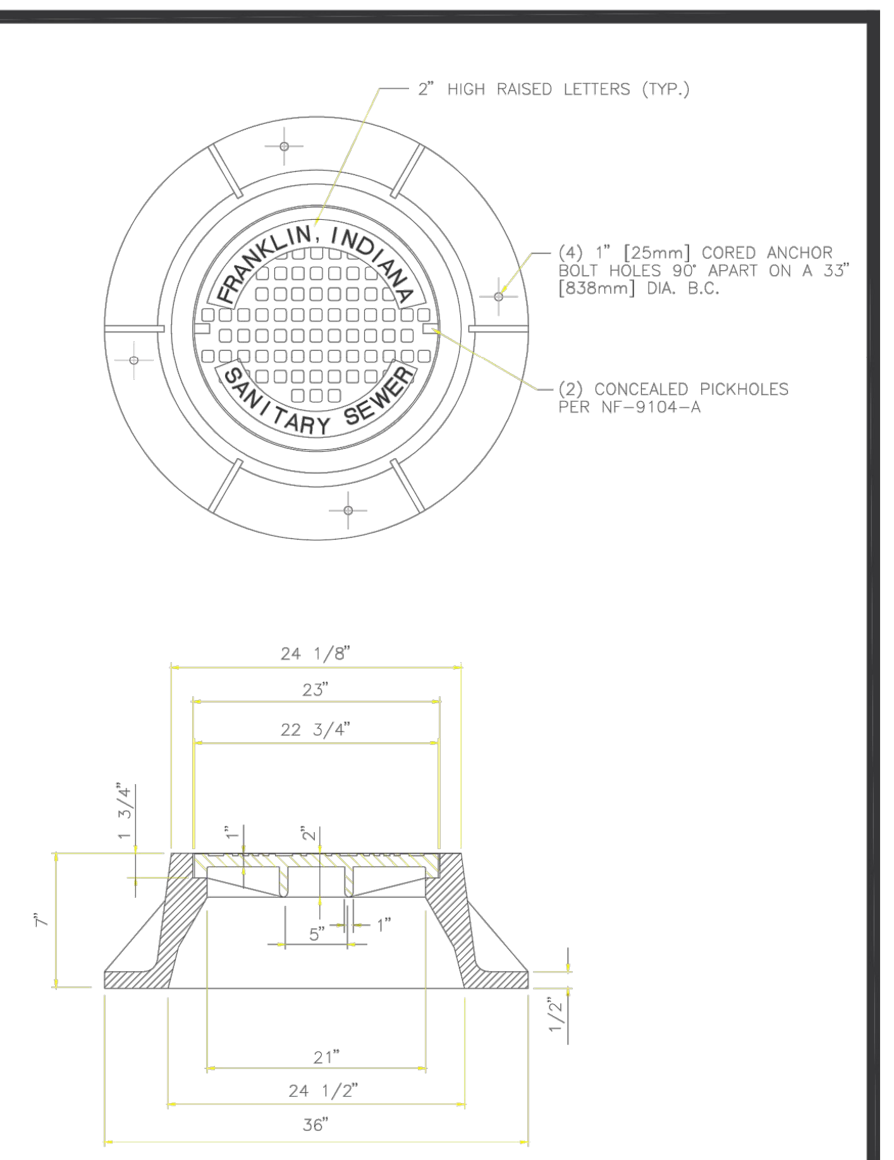
REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 5-5


2" HIGH RAISED LETTERS (TYP.)
FRANKLIN, INDIANA
SANITARY SEWER
(4) 1" [25mm] CORED ANCHOR BOLT HOLES 90° APART ON A 33" [838mm] DIA. B.C.
(2) CONCEALED PICKHOLES PER NF-9104-A
24 1/8"
23"
22 3/4"
1 3/4"
1"
2"
7"
5"
1"
1/2"
21"
24 1/2"
36"

LID: EAST JORDAN
1875 AVH
FRAME: EAST JORDAN
1875-22

NOTE: METAL: CAST GRAY IRON ASTM A-48 CL.358
FINISH: NOT PAINTED

STANDARD FRAME AND LID

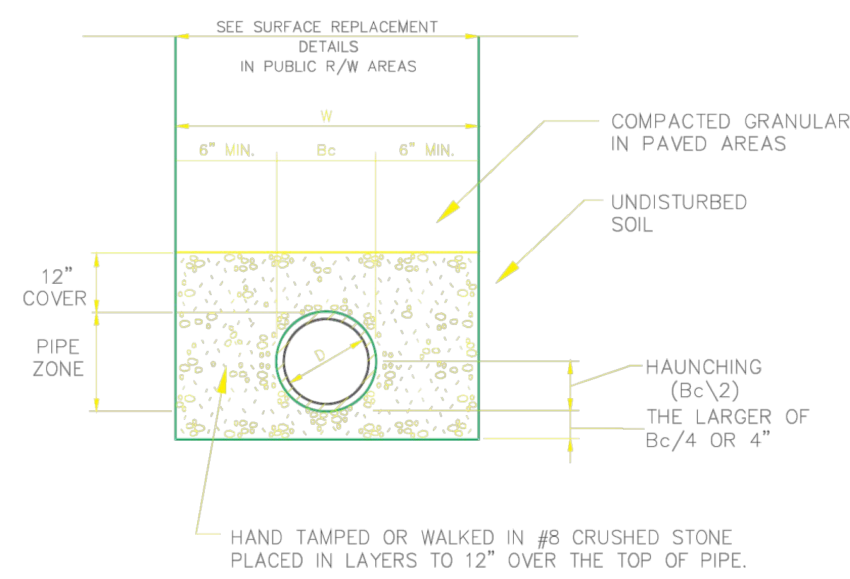
REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 5-8


SEE SURFACE REPLACEMENT DETAILS IN PUBLIC R/W AREAS
W
6" MIN.
Bc
6" MIN.
COMPACTED GRANULAR IN PAVED AREAS
UNDISTURBED SOIL
12" COVER
PIPE ZONE
D
HAUNCHING (Bc\2)
THE LARGER OF Bc/4 OR 4"
HAND TAMPED OR WALKED IN #8 CRUSHED STONE PLACED IN LAYERS TO 12" OVER THE TOP OF PIPE.

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

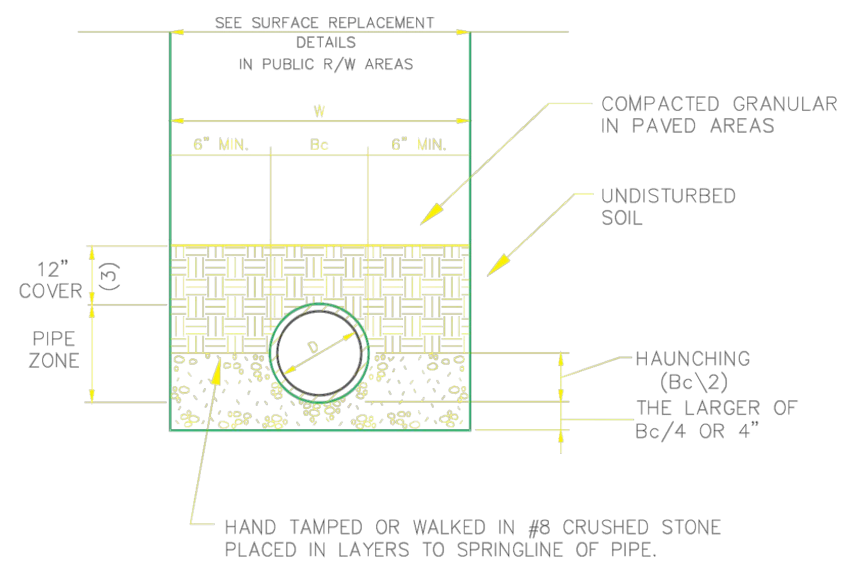
REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-1


SEE SURFACE REPLACEMENT DETAILS IN PUBLIC R/W AREAS
W
6" MIN.
Bc
6" MIN.
COMPACTED GRANULAR IN PAVED AREAS
UNDISTURBED SOIL
12" COVER
(3)
PIPE ZONE
D
HAUNCHING (Bc\2)
THE LARGER OF Bc/4 OR 4"
HAND TAMPED OR WALKED IN #8 CRUSHED STONE PLACED IN LAYERS TO SPRINGLINE OF PIPE.

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)

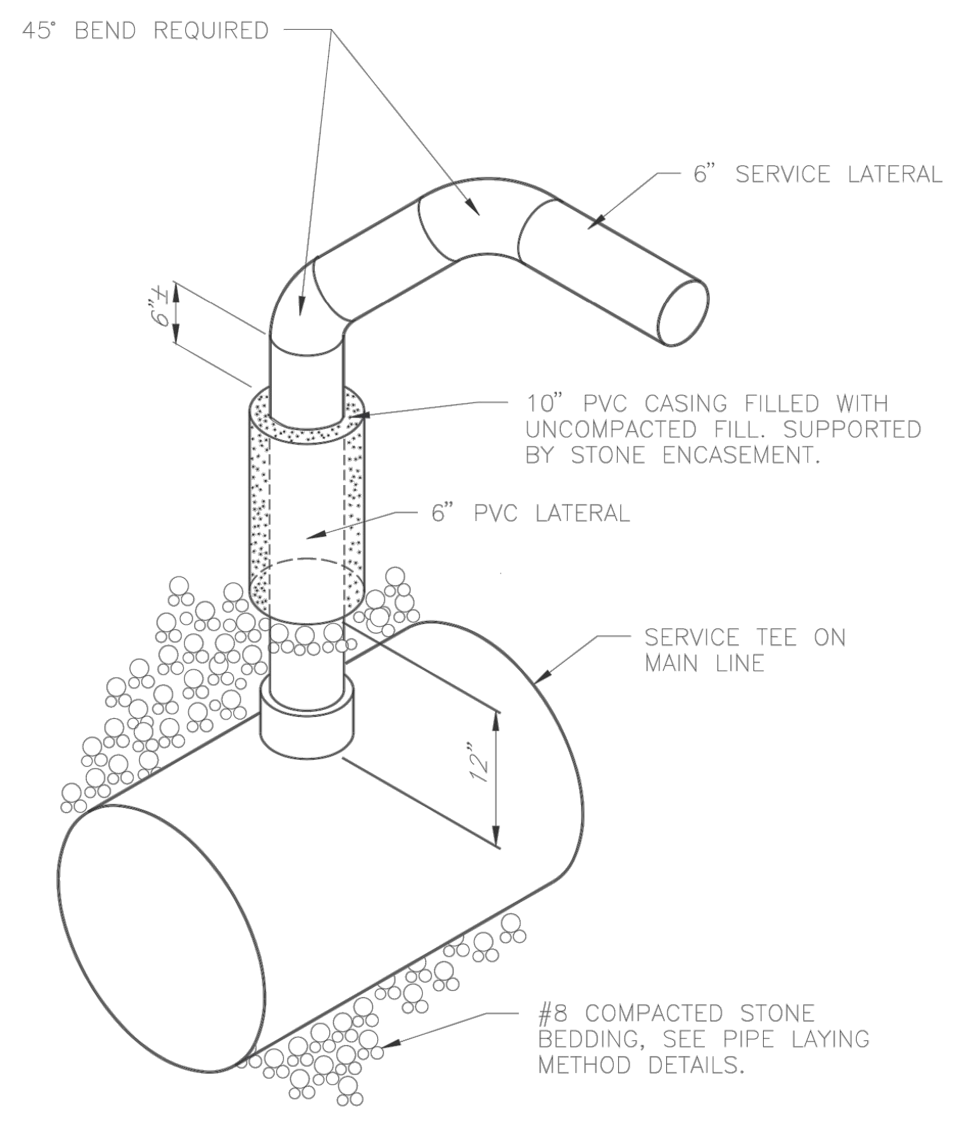
REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-2


45° BEND REQUIRED
6" SERVICE LATERAL
6"±
10" PVC CASING FILLED WITH UNCOMPACTED FILL. SUPPORTED BY STONE ENCASEMENT.
6" PVC LATERAL
SERVICE TEE ON MAIN LINE
12"
#8 COMPACTED STONE BEDDING, SEE PIPE LAYING METHOD DETAILS.

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

REVISION DATE

CITY of FRANKLIN, INDIANA

DPW

FIGURE

Illustration 7-5

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9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLAS
No. PE11800804

APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

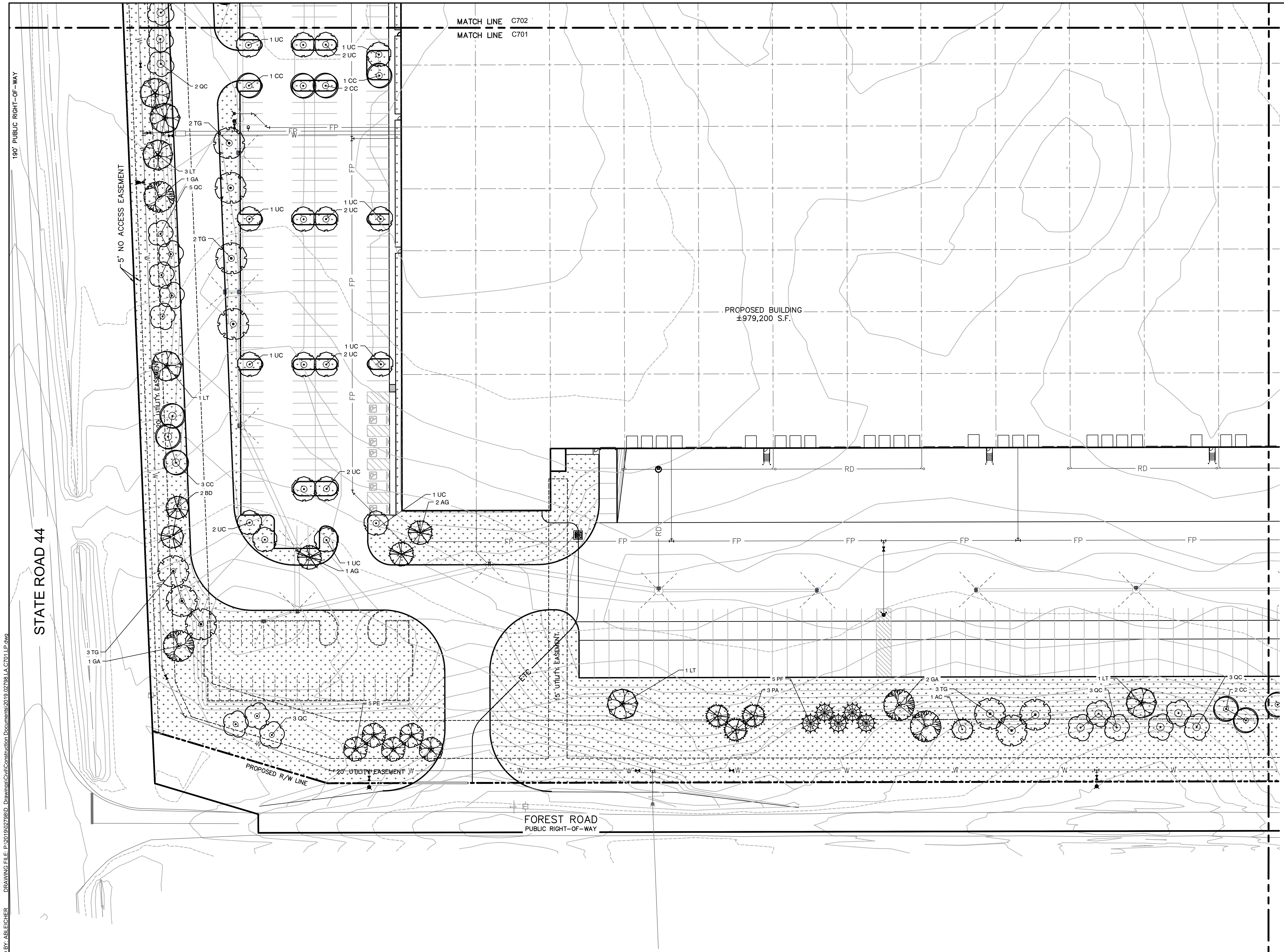
NO.	DESCRIPTION	DATE

Project Number 2019.02798

CITY OF FRANKLIN STANDARD DETAILS

C602

PLOT DATE: 12/3/2020 1:09 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 12/2/2020
EDITED BY: MIRVING
DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.CE.C600.SD.dwg



SCALE: 1"=40'

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
2. A MINIMUM OF 4" OF TOPSOIL ($\frac{2}{3}$ TOPSOIL, $\frac{1}{3}$ MULCH AND SOIL CONDITIONER) SHALL BE PLACED ON ALL AREAS TO BE SEEDED, SODDED AND PLANTED. PLANTING SOIL MIX SHALL BE FREE FROM SUBSOIL, VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL, AS DETERMINED BY SOILS ENGINEER, FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
3. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
4. ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURER'S RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
5. FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE.
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7. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
8. PLANTINGS SHOULD BE INSTALLED BETWEEN APRIL 1ST AND MAY 31ST, OR BETWEEN SEPTEMBER 1ST AND OCTOBER 31ST TO AVOID UNFAVORABLE WEATHER CONDITIONS. LANDSCAPE AND TURF PLANTED OUTSIDE OF THESE PERIODS WILL REQUIRE ADDITIONAL MEASURES TO MAINTAIN ACCEPTABLE HEALTH.
9. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION AND AS DIRECTED BY OWNER.
10. ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
11. ALL DISTURBED LAWN AREAS SHALL BE SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
12. LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY SEED OR SOD WORK.
13. ALL LAWN IS TO BE A BLEND PER THE PLANT SCHEDULE. SEED AREAS ARE TO HAVE 0% NOXIOUS WEED AND FREE OF DISEASE.
14. PROTECT LAWN SEEDED AREAS WITH STRAW MULCH. SPREAD MULCH UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1 $\frac{1}{2}$ INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.

LANDSCAPE LEGEND

✺	DECIDUOUS SHADE TREE
✹	EVERGREEN TREE
✹ ⬡	SHRUBS AND ORNAMENTAL GRASSES
○	MULCH BED/ TREE RING (DOUBLE-SHREDDED HARDWOOD BARK MULCH)
—	SPADE EDGE SEE DETAIL 04 ON SHEET C710

ORDINANCE NOTES

STREET TREES:
- (1) TREE REQUIRED PER 35 LF OF FRONTAGE

STATE ROAD 44: (1,243 LF): 35.5 TREES REQUIRED / 36 TREES PROVIDED
FOREST DRIVE. (1,950 LF): 55.7 TREES REQUIRED / 79 TREES PROVIDED

LOT INTERIOR LANDSCAPE:
TREES PROVIDED: 226 TREES

PARKING LOT PERIMETER
MINIMUM 10' BUFFER FROM ALL R.O.W. PLANTINGS REQUIRED FOR MULTI-FAMILY AND COMMERCIAL USES. PERIMETER SHRUBS NOT REQUIRED.

PARKING LOT INTERIOR:
5% OPEN SPACE REQUIRED FOR ALL PAVED SURFACES; ALL ISLANDS ARE TO BE A MINIMUM OF 300 SF; (1) SHADE TREE REQUIRED PER 300 SF.

TOTAL IMPERVIOUS DRIVE AREA: 741,154 SF
REQUIRED OPEN SPACE (5.0%): 37,057 SF / PROVIDED (5.25%): 38,912 SF

CONCEPT PLANT SCHEDULE

▨	LAWN SEED- SUN AND PARTIAL SHADE MIX See general notes for additional lawn seed mixes and installation requirements.	1,022,122 sf
	Festuca arundinacea / Turf Type Fescue Hybrid	817,697 sf
	Poa pratensis / Kentucky Bluegrass Hybrid	204,424 sf

PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	COND.	SIZE	SPACING
AC	1	Abies concolor / White Fir	Cont, B&B	6` HT	As shown
PA	6	Picea abies / Norway Spruce	Cont, B&B	6` HT	As shown
PF	10	Pinus flexilis `Vanderwolf`s Pyramid` / Vanderwolf`s Pyramid Pine	Cont, B&B	6` HT	As shown
SHADE TREES	**QTY**	**BOTANICAL / COMMON NAME**	**COND.**	**SIZE**	**SPACING**
AG	31	Acer saccharum `Green Mountain` TM / Green Mountain Sugar Maple	B & B	2.5" Cal.	As shown
BD	28	Betula nigra `BNMTF` TM / Dura Heat River Birch - Multi-Stem; 3 to 5 Canes	B & B	8` HT.	As shown
CC	24	Carpinus caroliniana / American Hornbeam	B & B	2.5" Cal.	As shown
GA	9	Ginkgo biloba `Autumn Gold` TM / Maidenhair Tree	B & B	2.5" Cal.	As shown
LT	16	Liriodendron tulipifera / Tulip Tree	B & B	2.5" Cal.	As shown
PO	10	Platanus occidentalis / American Sycamore	B & B	2.5" Cal.	As Shown
PE	11	Platanus x acerifolia `Exclamation` TM / Exclamation London Plane Tree	B & B	2.5" Cal.	As shown
QC	25	Quercus coccinea / Scarlet Oak	B & B	2.5" Cal.	As shown
TA	14	Taxodium distichum `Autumn Gold` / Autumn Gold Bald Cypress	B & B	2.5" Cal.	As Shown
TG	18	Tilia cordata `Greenspire` / Greenspire Littleleaf Linden	B & B	2.5" Cal.	As shown
UC	23	Ulmus x `Frontier` / Frontier Hybrid Elm	B & B	2.5" Cal.	As shown

MATCH LINE C701
MATCH LINE C704

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256
317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

ARTHUR E. BLEICHER
REGISTERED LANDSCAPE ARCHITECT
STATE OF INDIANA
APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

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DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

NO.	DESCRIPTION	DATE

Project Number 2019.02798

LANDSCAPE PLAN

C701

CONCEPT PLANT SCHEDULE

▨	LAWN SEED- SUN AND PARTIAL SHADE MIX See general notes for additional lawn seed mixes and installation requirements.	1,022,122 sf
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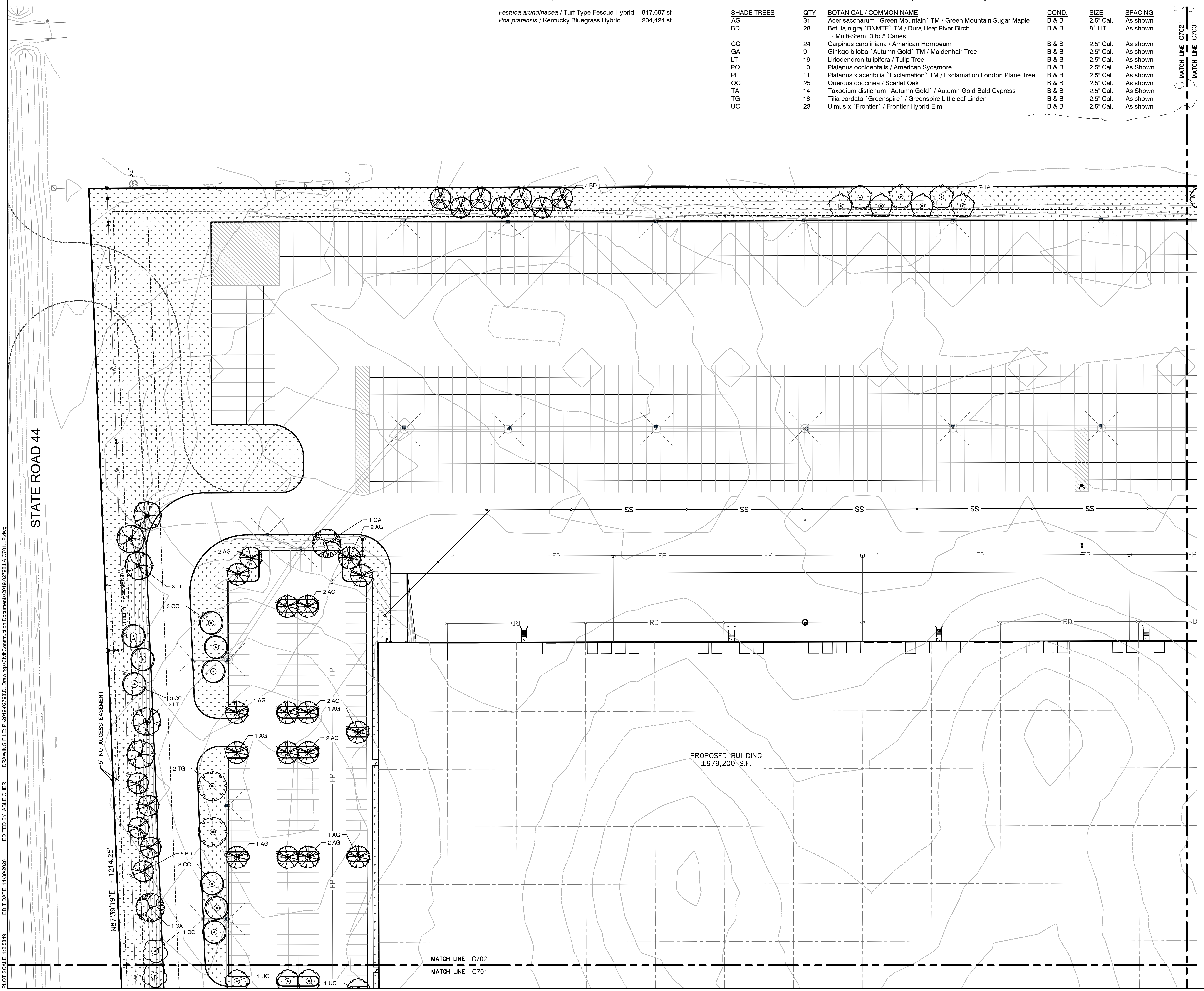

0' 40' 80'
SCALE: 1"=40'

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○	MULCH BED/ TREE RING (DOUBLE-SHREDDED HARDWOOD BARK MULCH)
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**I-65 SOUTH
LOGISTICS CENTER
LOT 1**

81/89 Forest Road
Franklin, Indiana

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
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CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

LANDSCAPE PLAN

C702

PLOT DATE: 12/1/2020 10:25 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 11/30/2020
EDITED BY: ABLEICHER
DRAWING FILE: P:\2019\02798\D_Drawings\Civil\Construction Documents\2019.02798 LA C701 LP.dwg

CONCEPT PLANT SCHEDULE

▨	LAWN SEED- SUN AND PARTIAL SHADE MIX See general notes for additional lawn seed mixes and installation requirements.	1,022,122 sf
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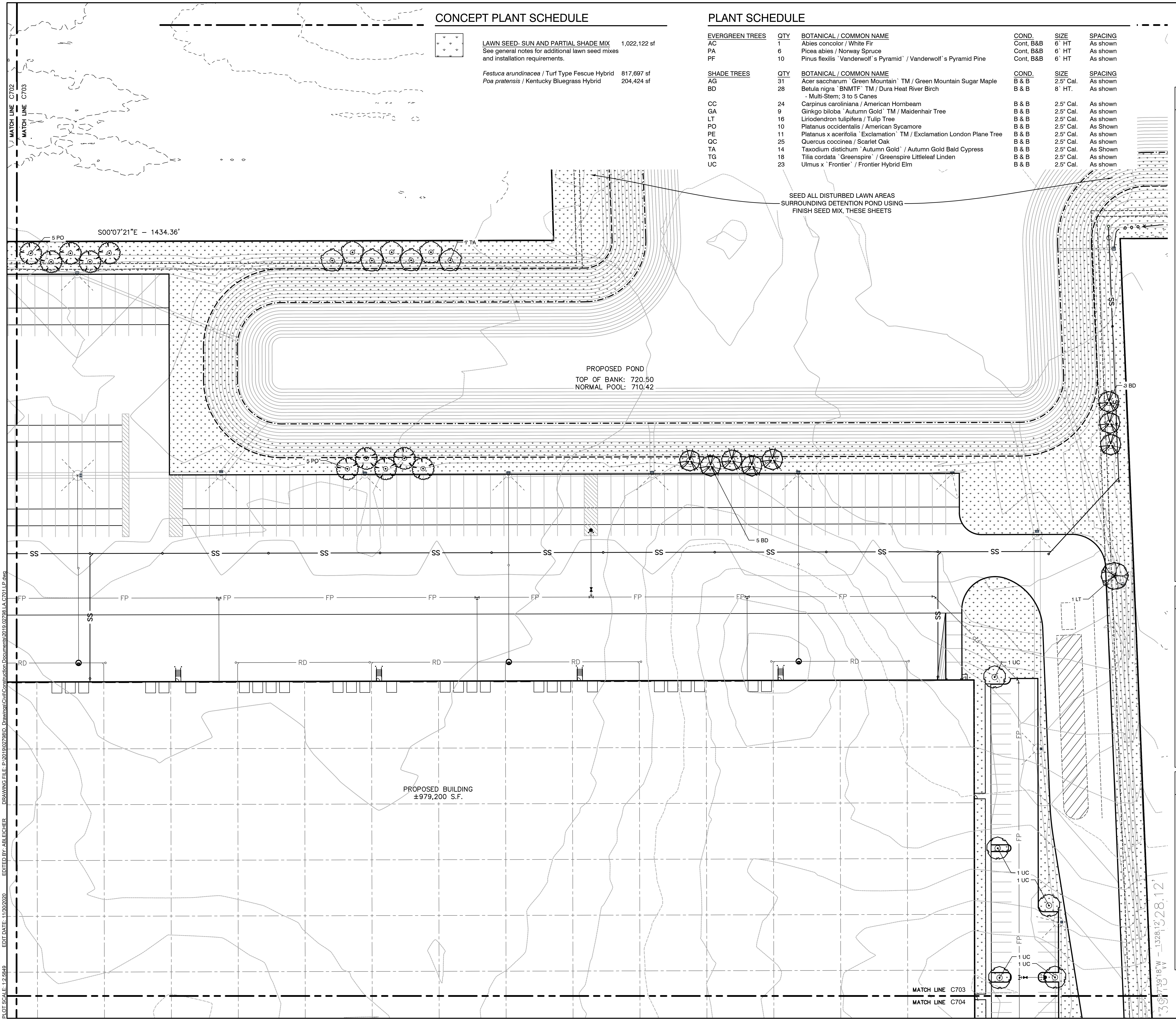

SEED ALL DISTURBED LAWN AREAS SURROUNDING DETENTION POND USING FINISH SEED MIX, THESE SHEETS

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7. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
8. PLANTINGS SHOULD BE INSTALLED BETWEEN APRIL 1ST AND MAY 31ST, OR BETWEEN SEPTEMBER 1ST AND OCTOBER 31ST TO AVOID UNFAVORABLE WEATHER CONDITIONS. LANDSCAPE AND TURF PLANTED OUTSIDE OF THESE PERIODS WILL REQUIRE ADDITIONAL MEASURES TO MAINTAIN ACCEPTABLE HEALTH.
9. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION AND AS DIRECTED BY OWNER.
10. ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
11. ALL DISTURBED LAWN AREAS SHALL BE SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
12. LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY SEED OR SOD WORK.
13. ALL LAWN IS TO BE A BLEND PER THE PLANT SCHEDULE. SEED AREAS ARE TO HAVE 0% NOXIOUS WEED AND FREE OF DISEASE.
14. PROTECT LAWN SEEDED AREAS WITH STRAW MULCH. SPREAD MULCH UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1 $\frac{1}{2}$ INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.

LANDSCAPE LEGEND

✺	DECIDUOUS SHADE TREE
✹	EVERGREEN TREE
✹ ⬡	SHRUBS AND ORNAMENTAL GRASSES
○	MULCH BED/ TREE RING (DOUBLE-SHREDDED HARDWOOD BARK MULCH)
—	SPADE EDGE SEE DETAIL 04 ON SHEET C710

ORDINANCE NOTES

STREET TREES:
- (1) TREE REQUIRED PER 35 LF OF FRONTAGE

STATE ROAD 44: (1,243 LF): 35.5 TREES REQUIRED / 36 TREES PROVIDED
FOREST DRIVE. (1,950 LF): 55.7 TREES REQUIRED / 79 TREES PROVIDED

LOT INTERIOR LANDSCAPE:
TREES PROVIDED: 226 TREES

PARKING LOT PERIMETER

MINIMUM 10' BUFFER FROM ALL R.O.W. PLANTINGS REQUIRED FOR MULTI-FAMILY AND COMMERCIAL USES. PERIMETER SHRUBS NOT REQUIRED.

PARKING LOT INTERIOR:

5% OPEN SPACE REQUIRED FOR ALL PAVED SURFACES; ALL ISLANDS ARE TO BE A MINIMUM OF 300 SF; (1) SHADE TREE REQUIRED PER 300 SF.

TOTAL IMPERVIOUS DRIVE AREA: 741,154 SF
REQUIRED OPEN SPACE (5.0%): 37,057 SF / PROVIDED (5.25%): 38,912 SF

GDI CONSTRUCTION
9775 Crosspoint Blvd
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317.567.6100

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www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

ARTHUR E. BLEICHER
APPROVAL PENDING
NOT FOR CONSTRUCTION

CERTIFIED BY

ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

LANDSCAPE PLAN

C703

PLOT DATE: 12/1/2020 10:31 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 11/30/2020
EDITED BY: ABLEICHER
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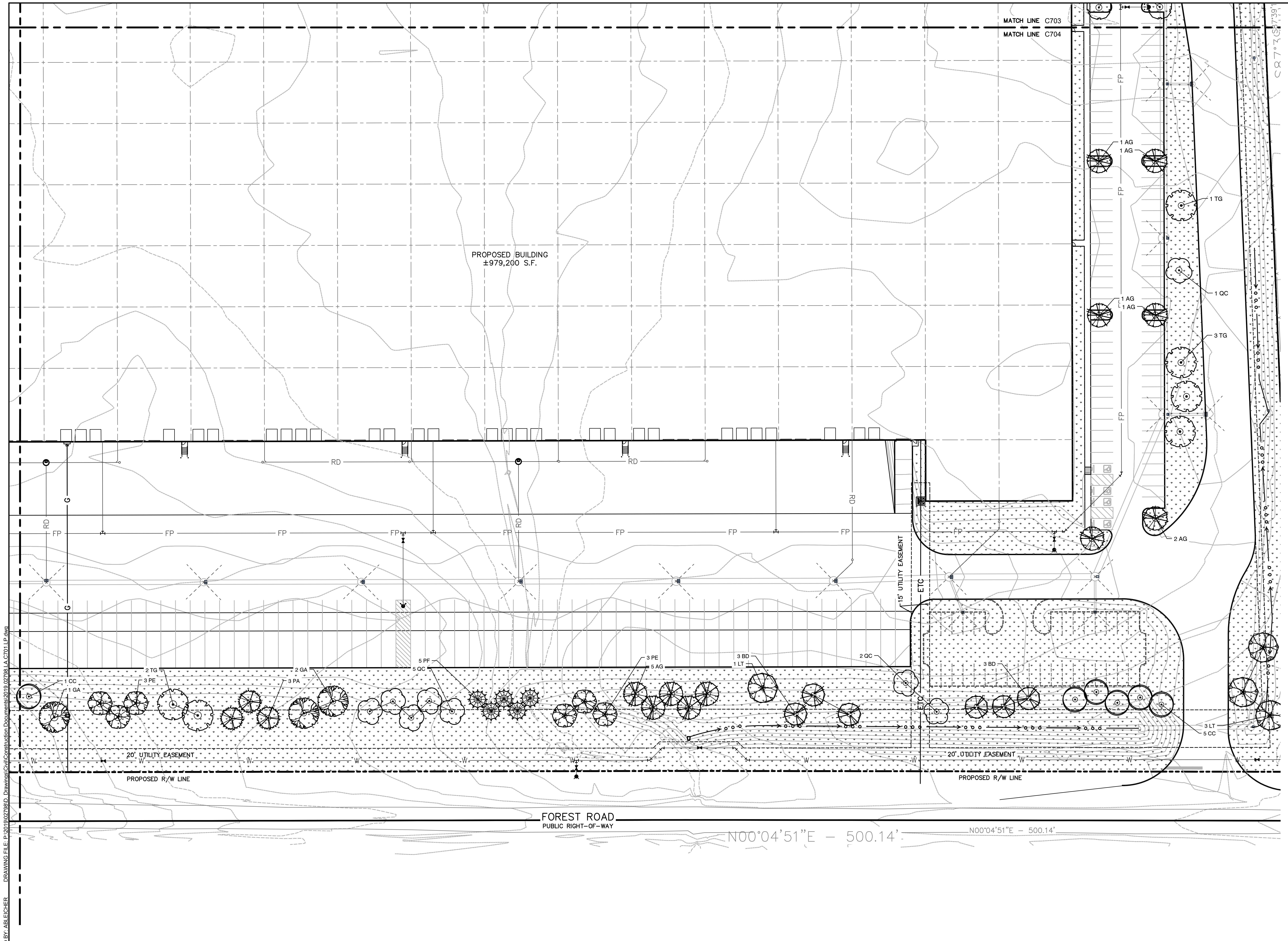

0' 40' 80'
SCALE: 1"=40'

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
2. A MINIMUM OF 4" OF TOPSOIL ($\frac{2}{3}$ TOPSOIL, $\frac{1}{3}$ MULCH AND SOIL CONDITIONER) SHALL BE PLACED ON ALL AREAS TO BE SEEDED, SODDED AND PLANTED. PLANTING SOIL MIX SHALL BE FREE FROM SUBSOIL, VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL, AS DETERMINED BY SOILS ENGINEER, FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
3. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
4. ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURER'S RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
5. FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE.
6. NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTOR'S OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
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11. ALL DISTURBED LAWN AREAS SHALL BE SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
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LANDSCAPE LEGEND

⊛	DECIDUOUS SHADE TREE
✹	EVERGREEN TREE
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—	SPADE EDGE SEE DETAIL 04 ON SHEET C710

ORDINANCE NOTES

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CONCEPT PLANT SCHEDULE

▨	LAWN SEED- SUN AND PARTIAL SHADE MIX See general notes for additional lawn seed mixes and installation requirements.	1,022,122 sf
	Festuca arundinacea / Turf Type Fescue Hybrid	817,697 sf
	Poa pratensis / Kentucky Bluegrass Hybrid	204,424 sf

PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	COND.	SIZE	SPACING
AC	1	Abies concolor / White Fir	Cont, B&B	6` HT	As shown
PA	6	Picea abies / Norway Spruce	Cont, B&B	6` HT	As shown
PF	10	Pinus flexilis \`Vanderwolf\`s Pyramid\` / Vanderwolf\`s Pyramid Pine	Cont, B&B	6` HT	As shown
SHADE TREES	**QTY**	**BOTANICAL / COMMON NAME**	**COND.**	**SIZE**	**SPACING**
AG	31	Acer saccharum \`Green Mountain\` TM / Green Mountain Sugar Maple	B & B	2.5" Cal.	As shown
BD	28	Betula nigra \`BNMTF\` TM / Dura Heat River Birch - Multi-Stem; 3 to 5 Canes	B & B	8` HT.	As shown
CC	24	Carpinus caroliniana / American Hornbeam	B & B	2.5" Cal.	As shown
GA	9	Ginkgo biloba \`Autumn Gold\` TM / Maidenhair Tree	B & B	2.5" Cal.	As shown
LT	16	Liriodendron tulipifera / Tulip Tree	B & B	2.5" Cal.	As shown
PO	10	Platanus occidentalis / American Sycamore	B & B	2.5" Cal.	As Shown
PE	11	Platanus x acerifolia \`Exclamation\` TM / Exclamation London Plane Tree	B & B	2.5" Cal.	As shown
QC	25	Quercus coccinea / Scarlet Oak	B & B	2.5" Cal.	As shown
TA	14	Taxodium distichum \`Autumn Gold\` / Autumn Gold Bald Cypress	B & B	2.5" Cal.	As Shown
TG	18	Tilia cordata \`Greenspire\` / Greenspire Littleleaf Linden	B & B	2.5" Cal.	As shown
UC	23	Ulmus x \`Frontier\` / Frontier Hybrid Elm	B & B	2.5" Cal.	As shown

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I-65 SOUTH LOGISTICS CENTER LOT 1

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ARTHUR E. BLEICHER
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ISSUANCE INDEX
DATE:
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REVISION SCHEDULE

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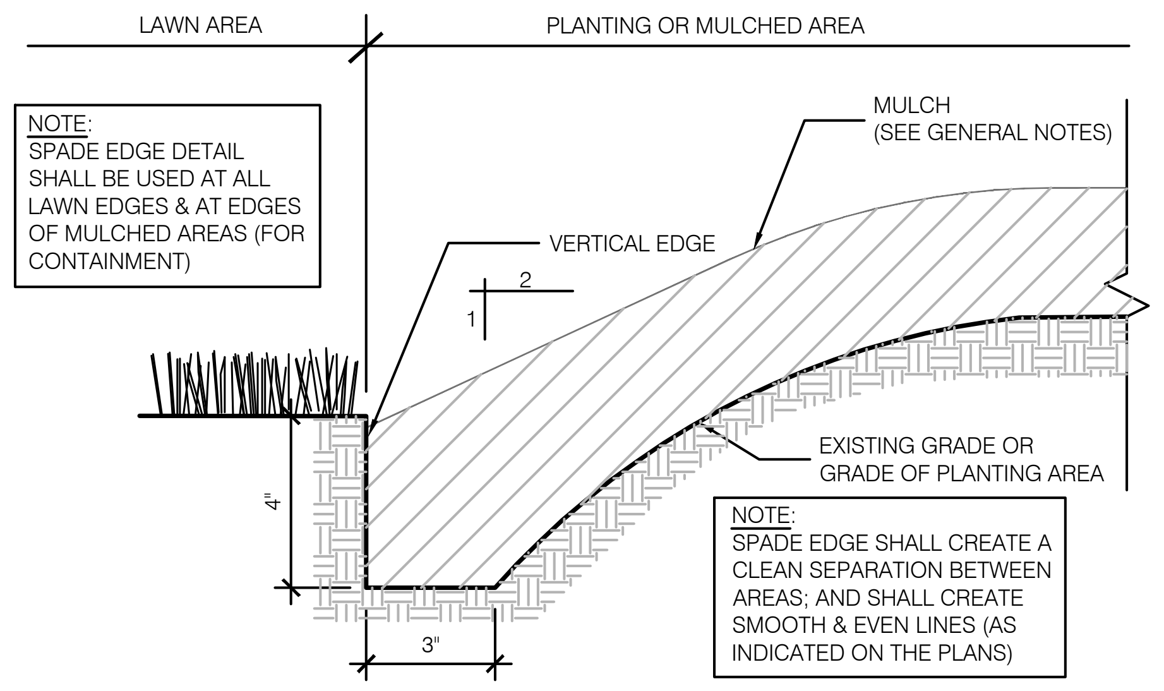
Project Number 2019.02798

LANDSCAPE PLAN

C704

PLOT DATE: 11/30/2020 2:06 PM
PLOT SCALE: 1:2.5849 EDIT DATE: 11/30/2020 EDITED BY: ANOENS DRAWING FILE: P:\2019\02798\D. Drawings\Civil\Construction Documents\2019.02798.LA.C701.LP.dwg

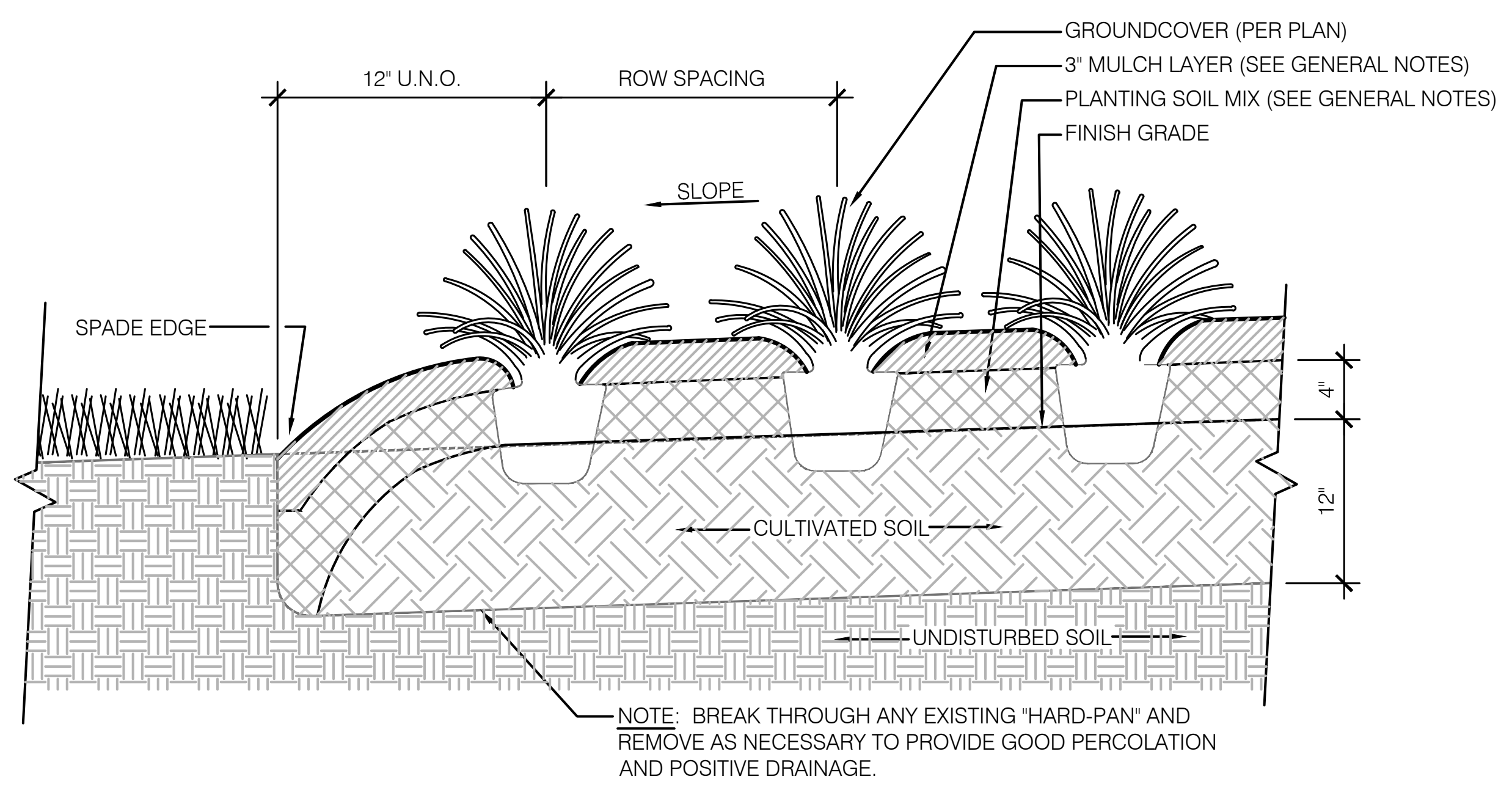
NOTE:
SPADE EDGE DETAIL SHALL BE USED AT ALL LAWN EDGES & AT EDGES OF MULCHED AREAS (FOR CONTAINMENT)


LAWN AREA
PLANTING OR MULCHED AREA
MULCH
(SEE GENERAL NOTES)
VERTICAL EDGE
2
1
EXISTING GRADE OR
GRADE OF PLANTING AREA
4"
3"

NOTE:
SPADE EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS; AND SHALL CREATE SMOOTH & EVEN LINES (AS INDICATED ON THE PLANS)

04 SPADE EDGE DETAIL

C710


12" U.N.O.
ROW SPACING
GROUNDCOVER (PER PLAN)
3" MULCH LAYER (SEE GENERAL NOTES)
PLANTING SOIL MIX (SEE GENERAL NOTES)
FINISH GRADE
SLOPE
SPADE EDGE
4"
12"
CULTIVATED SOIL
UNDISTURBED SOIL

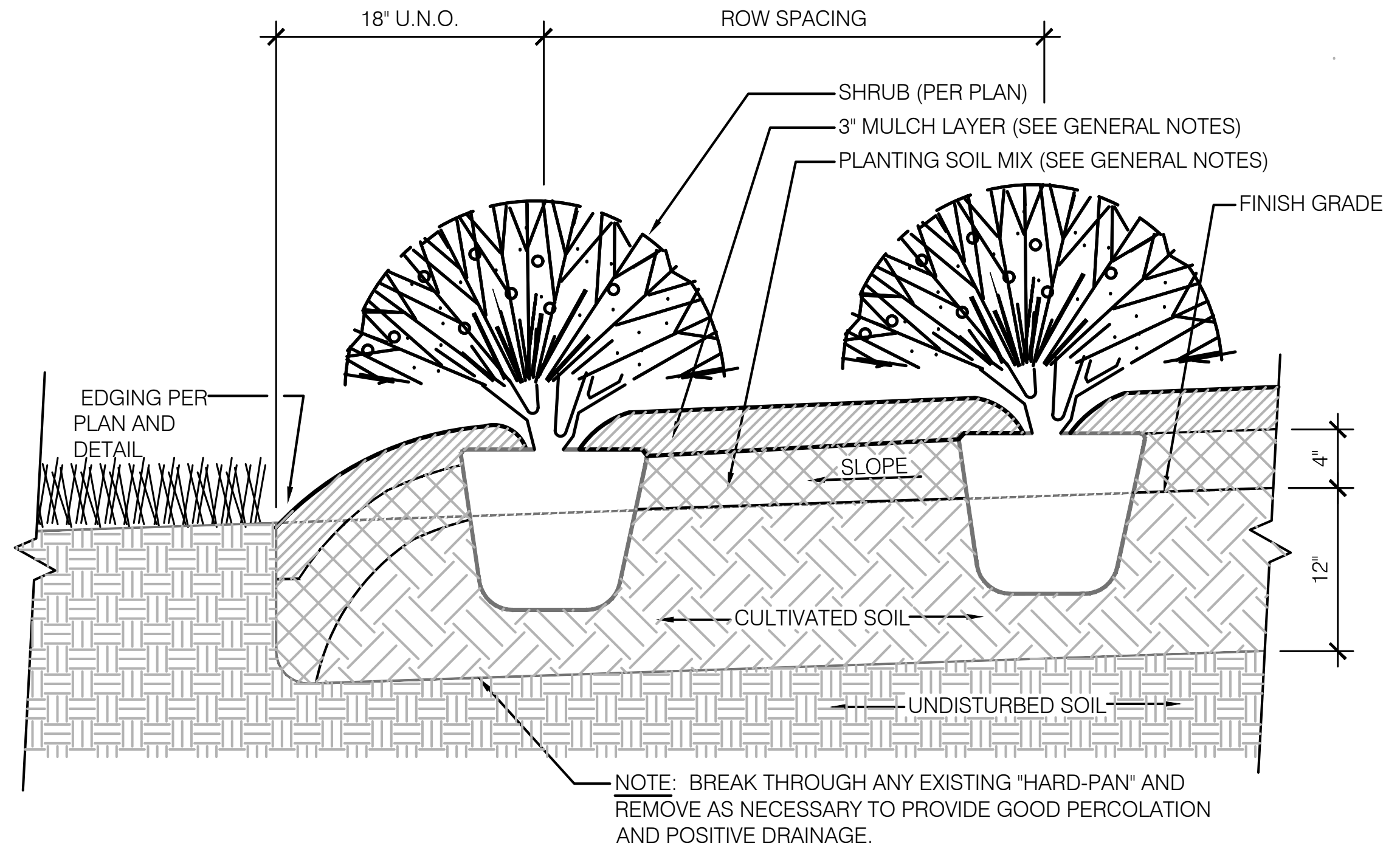
NOTE: BREAK THROUGH ANY EXISTING "HARD-PAN" AND REMOVE AS NECESSARY TO PROVIDE GOOD PERCOLATION AND POSITIVE DRAINAGE.

PLANTING PROCEDURE

1. LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
2. ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
3. INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

03 GROUNDCOVER PLANTING DETAIL

C710


18" U.N.O.
ROW SPACING
SHRUB (PER PLAN)
3" MULCH LAYER (SEE GENERAL NOTES)
PLANTING SOIL MIX (SEE GENERAL NOTES)
FINISH GRADE
EDGING PER PLAN AND DETAIL
SLOPE
4"
12"
CULTIVATED SOIL
UNDISTURBED SOIL

NOTE: BREAK THROUGH ANY EXISTING "HARD-PAN" AND REMOVE AS NECESSARY TO PROVIDE GOOD PERCOLATION AND POSITIVE DRAINAGE.

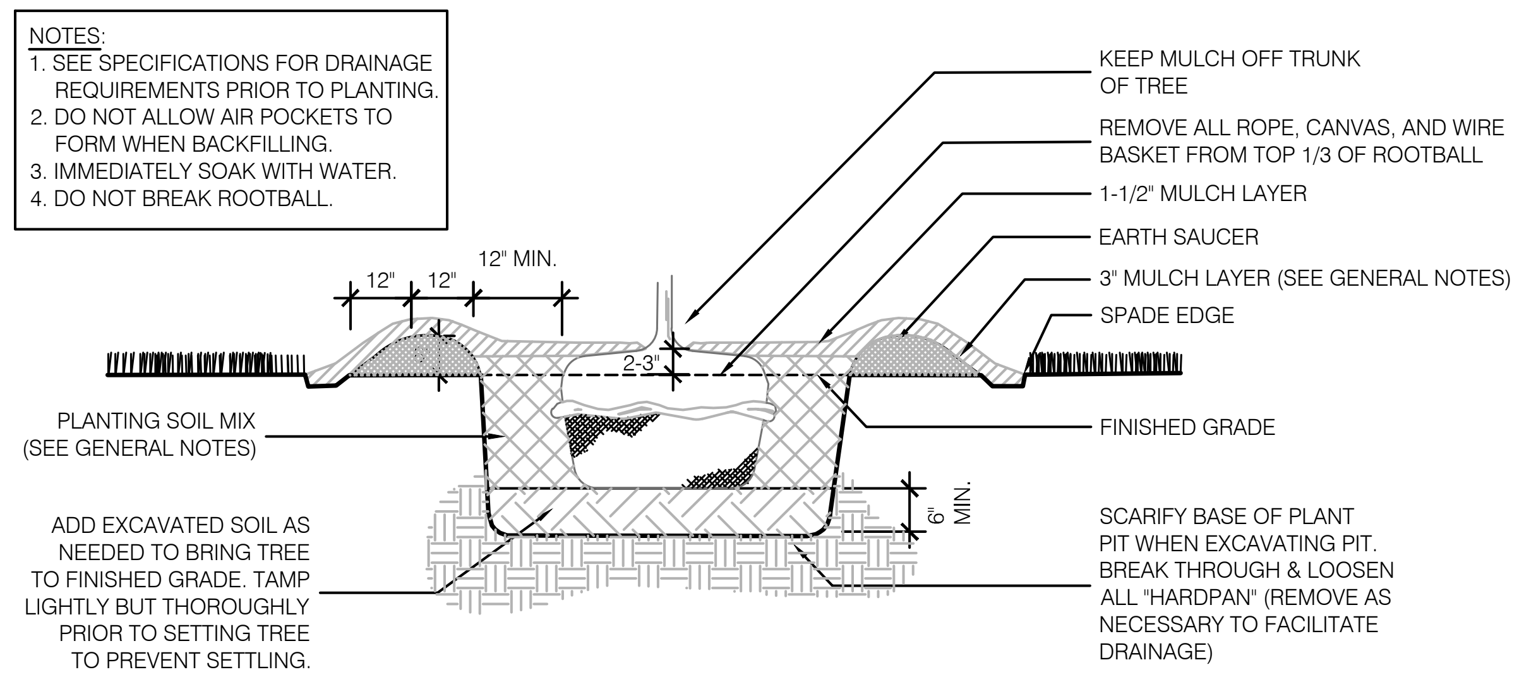
PLANTING PROCEDURE

1. LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
2. ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
3. INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

02 SHRUB PLANTING DETAIL

C710

NOTES:
1. SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS PRIOR TO PLANTING.
2. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
3. IMMEDIATELY SOAK WITH WATER.
4. DO NOT BREAK ROOTBALL.


12"
12"
12" MIN.
2-3"
6" MIN.
KEEP MULCH OFF TRUNK OF TREE
REMOVE ALL ROPE, CANVAS, AND WIRE BASKET FROM TOP 1/3 OF ROOTBALL
1-1/2" MULCH LAYER
EARTH SAUCER
3" MULCH LAYER (SEE GENERAL NOTES)
SPADE EDGE
FINISHED GRADE
PLANTING SOIL MIX
(SEE GENERAL NOTES)

ADD EXCAVATED SOIL AS NEEDED TO BRING TREE TO FINISHED GRADE. TAMP LIGHTLY BUT THOROUGHLY PRIOR TO SETTING TREE TO PREVENT SETTLING.

SCARIFY BASE OF PLANT PIT WHEN EXCAVATING PIT. BREAK THROUGH & LOOSEN ALL "HARDPAN" (REMOVE AS NECESSARY TO FACILITATE DRAINAGE)

PLANTING PROCEDURE

1. EXCAVATE ROOTBALL PIT
2. ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
3. BACKFILL WITH SOIL MIX & "WATER IN"
4. COMPLETE BACKFILLING, CONSTRUCT SAUCER, SPADE EDGE & ADD MULCH
5. STAKE & GUY SECURELY (AS REQUIRED)

01 TREE PLANTING DETAIL

C710

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LOT 1**

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ARTHUR E. BLEICH

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CERTIFIED BY

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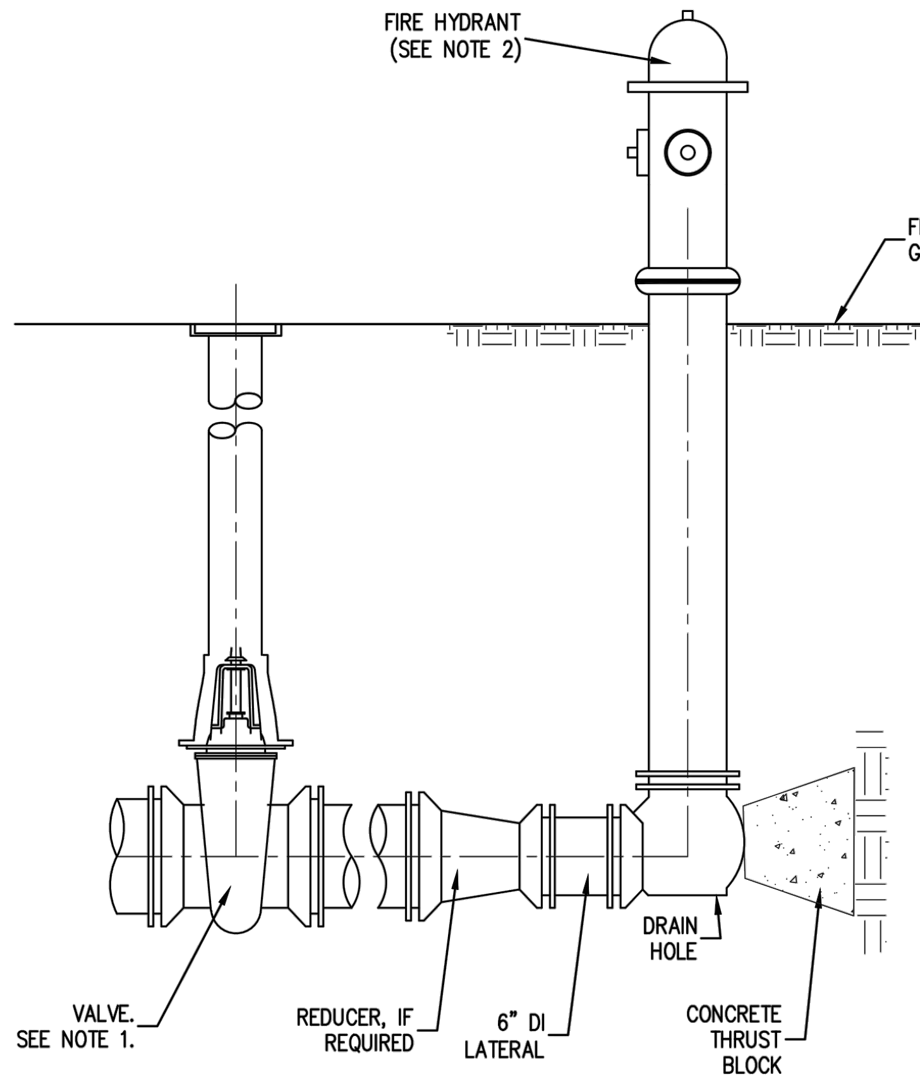
Project Number 2019.02798

LANDSCAPE DETAILS

C710


FIRE HYDRANT (SEE NOTE 2)
FINISHED GRADE
VALVE. SEE NOTE 1.
REDUCER, IF REQUIRED
6" DI LATERAL
DRAIN HOLE
CONCRETE THRUST BLOCK

SECTION

NOTE:
1. RESTRAIN VALVE AS A DEAD-END.
2. INSTALL FIRE HYDRANT PER INSTALLATION STANDARD DETAIL. HYDRANT AUXILIARY VALVE NOT REQUIRED.

TEMPORARY DEAD-END FIRE HYDRANT

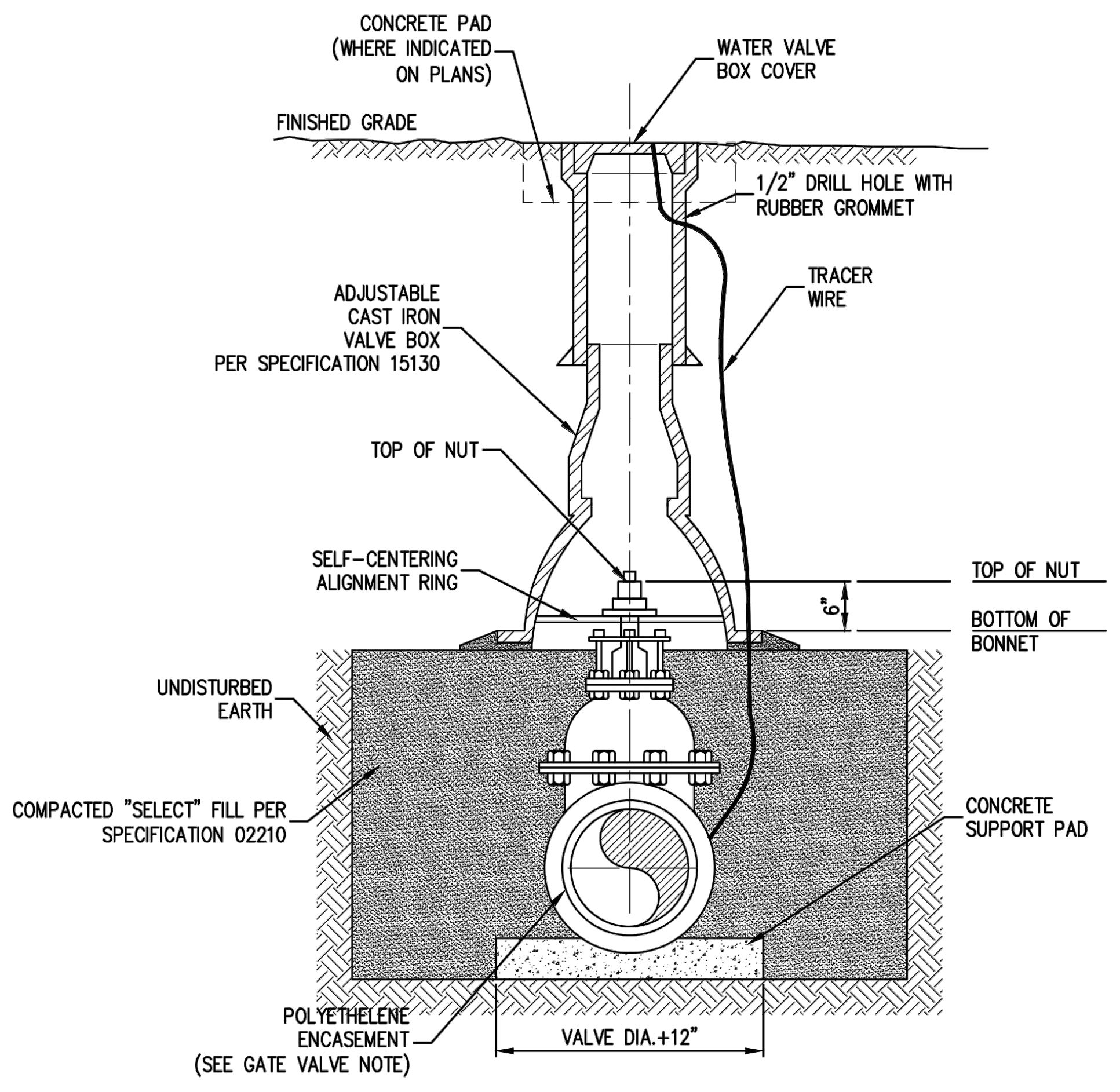
N.T.S.

STANDARD DETAIL

TEMPORARY DEAD-END FIRE HYDRANT DETAIL

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

DATE:	JANUARY, 2018	DRAWN BY:	S. FORD
LATEST REV:	JULY, 2018	APP'D BY:	E.N.


CONCRETE PAD (WHERE INDICATED ON PLANS)
WATER VALVE BOX COVER
FINISHED GRADE
1/2" DRILL HOLE WITH RUBBER GROMMET
ADJUSTABLE CAST IRON VALVE BOX PER SPECIFICATION 15130
TRACER WIRE
TOP OF NUT
SELF-CENTERING ALIGNMENT RING
6"
TOP OF NUT
BOTTOM OF BONNET
UNDISTURBED EARTH
COMPACTED "SELECT" FILL PER SPECIFICATION 02210
CONCRETE SUPPORT PAD
POLYETHELENE ENCASEMENT (SEE GATE VALVE NOTE)
VALVE DIA.+12"

GATE VALVE (12" AND SMALLER)

N.T.S.

GATE VALVE NOTE
THE POLYETHELENE ENCASEMENT SHALL BE INSTALLED UP TO THE OPERATING NUT, AND OVER THE LOWER PORTION OF THE VALVE BOX, LEAVING THE OPERATING NUT EXPOSED AND FREE TO BE OPERATED WITHIN THE VALVE BOX.

STANDARD DETAIL

GATE VALVE (12" AND SMALLER)

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
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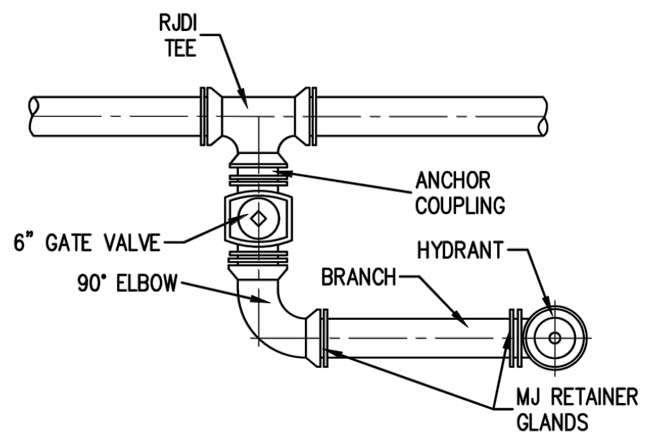
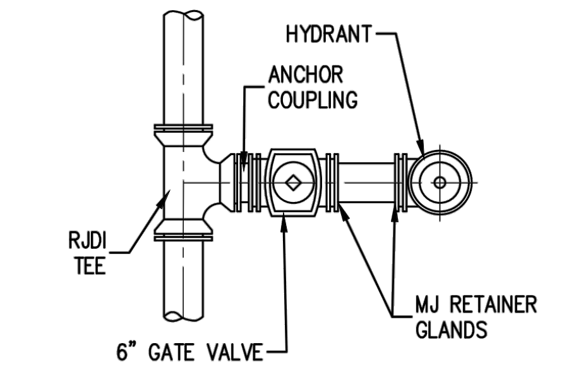
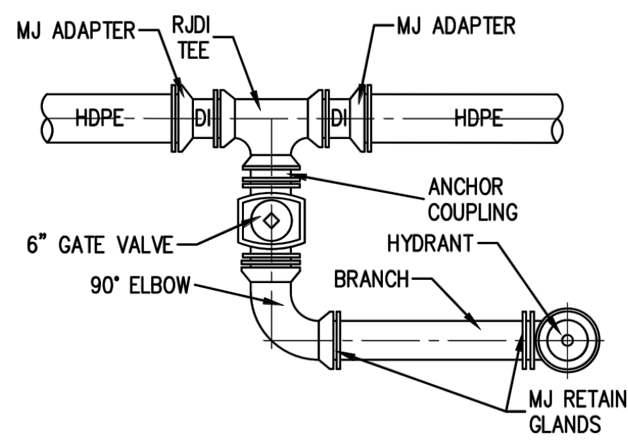

RJDI TEE
ANCHOR COUPLING
6" GATE VALVE
90° ELBOW
BRANCH
HYDRANT
MJ RETAINER GLANDS

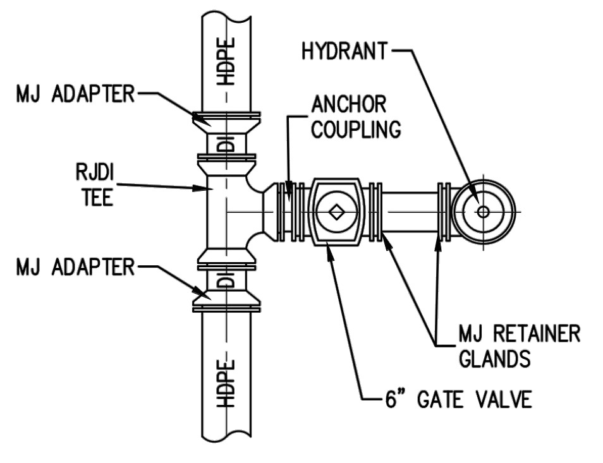
PARALLEL TO MAIN


HYDRANT
ANCHOR COUPLING
RJDI TEE
6" GATE VALVE
MJ RETAINER GLANDS

PERPENDICULAR TO MAIN


MJ ADAPTER
RJDI TEE
MJ ADAPTER
HDPE
DI
DI
HDPE
ANCHOR COUPLING
6" GATE VALVE
HYDRANT
90° ELBOW
BRANCH
MJ RETAINER GLANDS

PARALLEL TO HDPE MAIN


HDPE
DI
HDPE
HYDRANT
MJ ADAPTER
ANCHOR COUPLING
RJDI TEE
MJ ADAPTER
MJ RETAINER GLANDS
6" GATE VALVE

PERPENDICULAR TO HDPE MAIN

STANDARD DETAIL

FIRE HYDRANT INSTALLATION DETAILS

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

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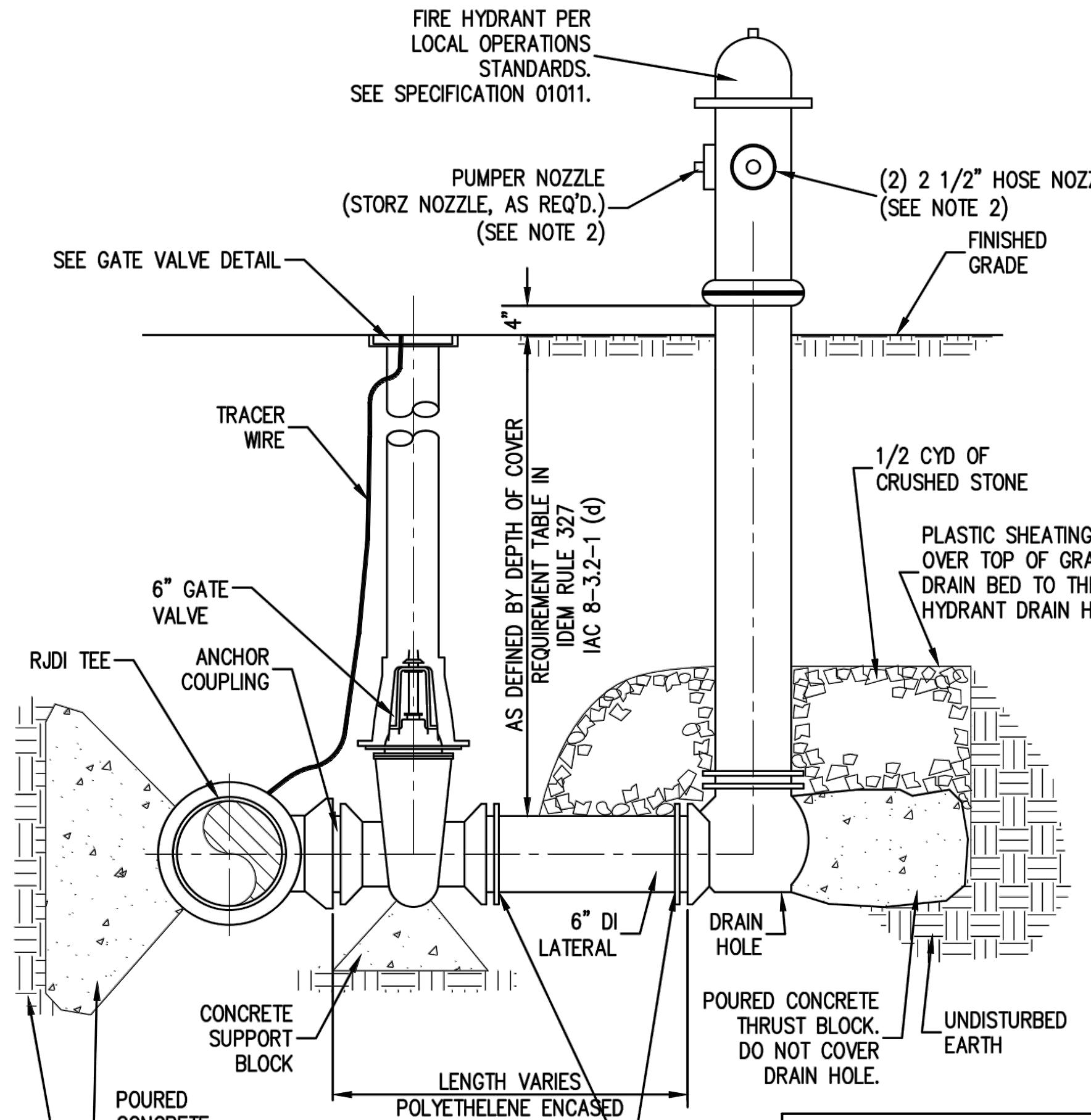

FIRE HYDRANT PER LOCAL OPERATIONS STANDARDS. SEE SPECIFICATION 01011.
PUMPER NOZZLE (STORZ NOZZLE, AS REQ'D.) (SEE NOTE 2)
(2) 2 1/2" HOSE NOZZLES (SEE NOTE 2)
SEE GATE VALVE DETAIL
FINISHED GRADE
4"
TRACER WIRE
AS DEFINED BY DEPTH OF COVER REQUIREMENT TABLE IN IDEM RULE 327 IAC 8-3.2-1 (d)
1/2 CYD OF CRUSHED STONE
PLASTIC SHEATING DRAPED OVER TOP OF GRAVEL. DRAIN BED TO THE HYDRANT DRAIN HOLES.
6" GATE VALVE
RJDI TEE
ANCHOR COUPLING
6" DI LATERAL
DRAIN HOLE
CONCRETE SUPPORT BLOCK
POURED CONCRETE THRUST BLOCK. DO NOT COVER DRAIN HOLE.
UNDISTURBED EARTH
LENGTH VARIES POLYETHELENE ENCASED (SEE NOTE 1)
POURED CONCRETE THRUST BLOCK
MJ RETAINER GLANDS
UNDISTURBED EARTH

SECTION

1. ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW: 1500 GPM = BLUE, 1000–1499 GPM = GREEN, 500–999 GPM ORANGE
2. ALL HYDRANTS ARE TO HAVE A S.T.O.R.Z. CONNECTION

NOTE:
1. THE FIRE HYDRANT LATERAL, GATE VALVE, AND FIRE HYDRANT BARREL SHALL BE ENCASED IN POLYETHYLENE ENCASEMENT UP TO FINISHED GRADE PER SPECIFICATION 15130 PRIOR TO BACKFILL. THE POLYETHYLENE ENCASEMENT SHALL NOT INTERFERE WITH THE DRAIN HOLE.
2. WHEN INSTALLED BEHIND CURB, PUMPER AND HOSE NOZZLES TO BE AT LEAST 18"–24", DEPENDING ON LOCAL REQUIREMENTS, FROM FACE OF CURB.

FIRE HYDRANT DETAILS

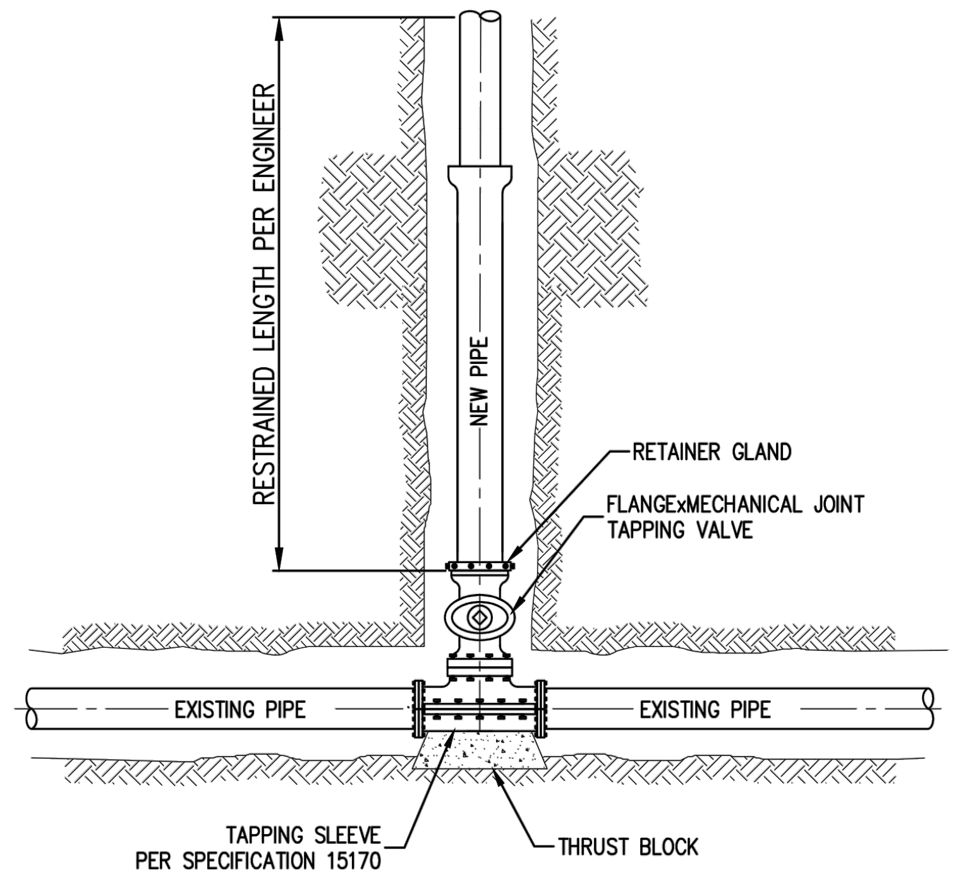
N.T.S.

STANDARD DETAIL

FIRE HYDRANT DETAIL

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

DATE:	JANUARY, 2018	DRAWN BY:	S. FORD
LATEST REV:	JULY, 2018	APP'D BY:	E.N.


RESTRAINED LENGTH PER ENGINEER
NEW PIPE
RETAINER GLAND
FLANGExMECHANICAL JOINT TAPPING VALVE
EXISTING PIPE
EXISTING PIPE
TAPPING SLEEVE PER SPECIFICATION 15170
THRUST BLOCK

NOTE:
1. RETAINER GLAND PER SPECIFICATION 15130.
2. TAPPING SLEEVE FOR HDPE PIPE MUST BE APPROVED FOR THE APPLICATION BY THE MANUFACTURER AND INAWC.

TAPPING SLEEVE AND TAPPING VALVE DETAIL

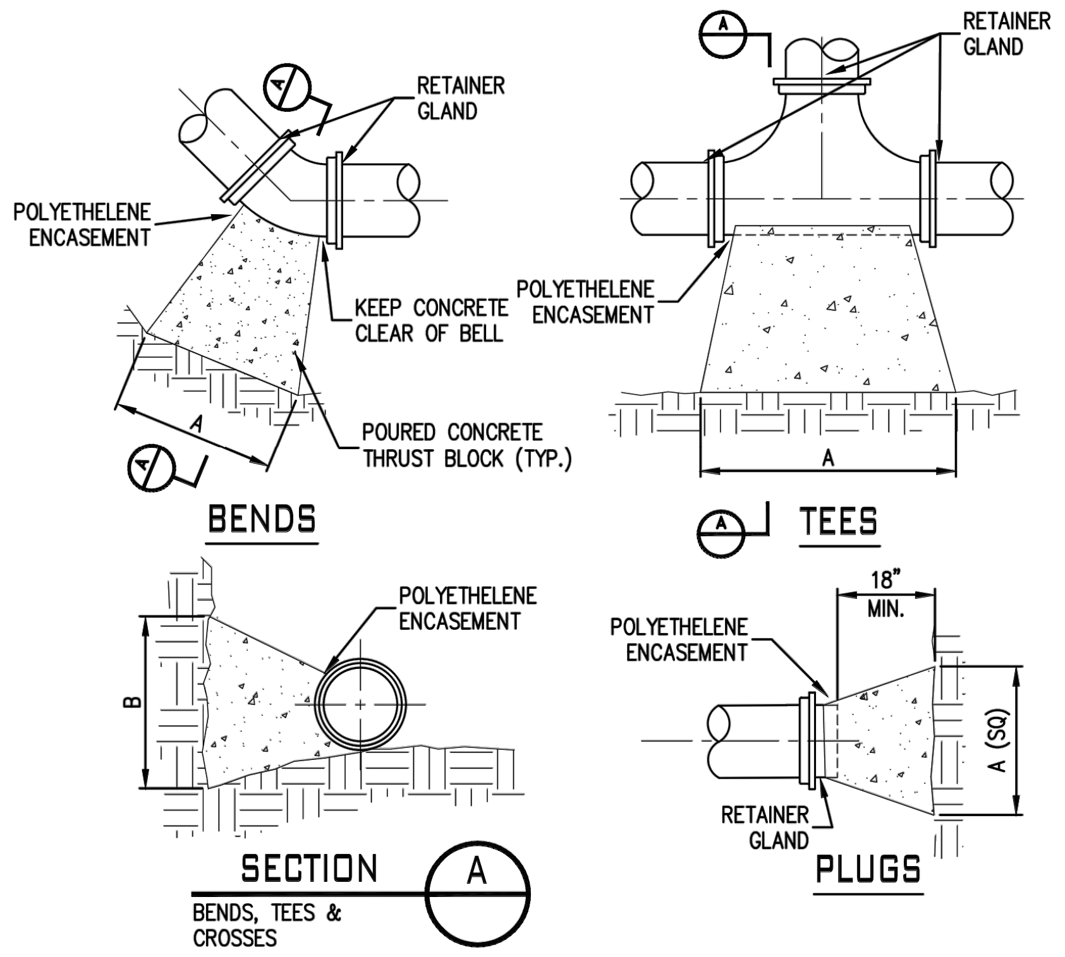
N.T.S.

STANDARD DETAIL

TAPPING SLEEVE AND TAPPING VALVE

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

DATE:	JANUARY, 2018	DRAWN BY:	S. FORD
LATEST REV:	JANUARY, 2018	APP'D BY:	E.N.


RETAINER GLAND
POLYETHELENE ENCASEMENT
KEEP CONCRETE CLEAR OF BELL
POURED CONCRETE THRUST BLOCK (TYP.)
A
A
BENDS
RETAINER GLAND
POLYETHELENE ENCASEMENT
A
A
TEES
POLYETHELENE ENCASEMENT
B
POLYETHELENE ENCASEMENT
18" MIN.
A (SQ)
RETAINER GLAND
SECTION A
BENDS, TEES & CROSSES
PLUGS

THRUST BLOCK DETAIL

N.T.S.

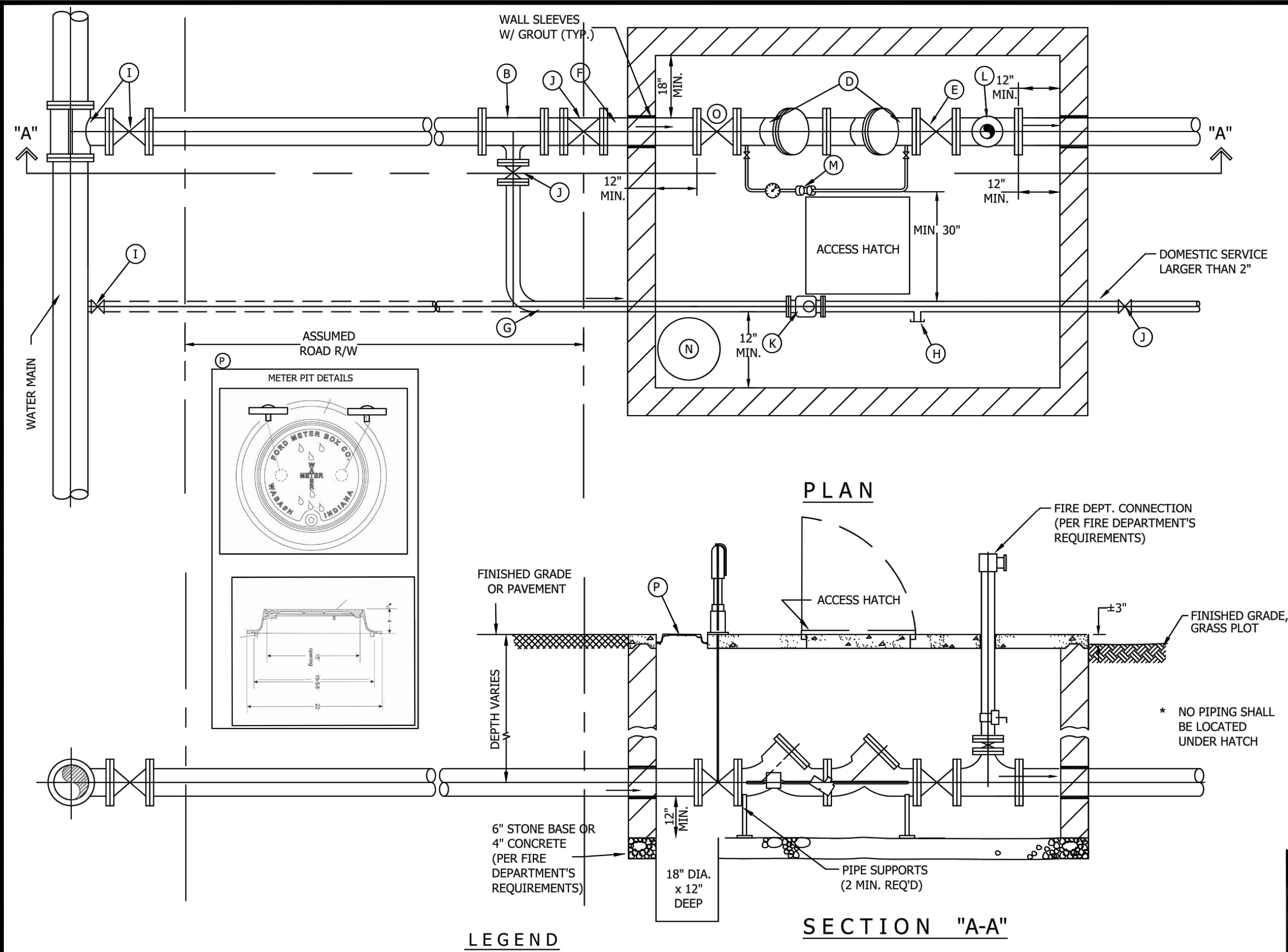
NOTES:
1. THRUST BLOCK DIMENSIONS SHALL BE PROVIDED BY THE DESIGN ENGINEER.
2. THRUST BLOCKS SHALL BE INSTALLED AGAINST UNDISTURBED SOIL WITH ADEQUATE BEARING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. DESIGN TO BE BASED ON 200 PSI HYDROSTATIC WATER PRESSURE (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER).
6. INSTALL POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS PRIOR TO POURING CONCRETE.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. ALL ANCHOR BOLTS SHALL BE CORROSION RESISTANT, AND SIZED PER SPECIFICATION.
10. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
11. CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
12. FOR UNSTABLE SOIL CONDITIONS, THE ENGINEER SHALL VERIFY THRUST BLOCK DIMENSIONS.

STANDARD DETAIL

THRUST BLOCKS

INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

DATE:	JANUARY, 2018	DRAWN BY:	S. FORD
LATEST REV:	JANUARY, 2018	APP'D BY:	E.N.


WATER MAIN
"A"
"A"
WALL SLEEVES W/ GROUT (TYP.)
18" MIN.
12" MIN.
12" MIN.
12" MIN.
MIN. 30"
ACCESS HATCH
DOMESTIC SERVICE LARGER THAN 2"
ASSUMED ROAD R/W
12" MIN.
METER PIT DETAILS
FORD METER BOX CO.
WABASH INDIANA
METER
PLAN
FIRE DEPT. CONNECTION (PER FIRE DEPARTMENT'S REQUIREMENTS)
FINISHED GRADE OR PAVEMENT
ACCESS HATCH
±3"
FINISHED GRADE, GRASS PLOT
DEPTH VARIES
* NO PIPING SHALL BE LOCATED UNDER HATCH
12" MIN.
6" STONE BASE OR 4" CONCRETE (PER FIRE DEPARTMENT'S REQUIREMENTS)
18" DIA. x 12" DEEP
PIPE SUPPORTS (2 MIN. REQ'D)
SECTION "A-A"
A B C D E F G H I J K L M N O P

LEGEND

Ⓐ	NOT USED	Ⓕ	FIRE LINE
Ⓑ	RJDI TEE	Ⓖ	DOMESTIC SERVICE (SEE NOTE 8)
Ⓒ	NOT USED	Ⓗ	2" TEST PLUG (SEE NOTE 8)
Ⓓ	DOUBLE CHECK DETECTOR ASSEMBLY	Ⓘ	TAPPING SLEEVE W/ TAPPING VALVE & BOX (COORDINATE W/ LOCAL UTILITY SUPERINTENDENT/MANAGER)
Ⓔ	FLANGED OS & Y VALVE	Ⓙ	RJDI GATE VALVE
Ⓚ	DOMESTIC SERVICE METER (SEE NOTE 8)	Ⓟ	SUMP PUMP LID
Ⓛ	FLANGED TEE		
Ⓜ	DETECTOR METER (SEE NOTE 8)		
Ⓝ	SUMP PIT		
Ⓞ	FLANGED OS&Y VALVE WITH PIT TYPE POST INDICATOR		

NOTES:

1. CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPERTENCES EXCEPT AS NOTED BELOW.
2. VAULT CONSTRUCTION MATERIALS SHALL BE 8"x8"x16" CMU, OR PRECAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION.
3. INSIDE DIMENSIONS PER DRAWING NOTES. VAULT TO BE SET LENGTHWISE WITH SERVICE.
4. TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT IS TO BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED IN GRASS PLOT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
5. BOTTOM OF VAULT TO BE EITHER A MINIMUM OF 6" OF CRUSHED STONE OR 4" CONCRETE PER FIRE DEPARTMENT'S REQUIREMENT. MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.
6. DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&Y GATE VALVE ON INLET & OUTLET SIDES. DETECTOR METER IS FURNISHED BY UTILITY AND INSTALLED BY CUSTOMER. STAINLESS STEEL BOLTS ARE REQUIRED.
7. ACCESS HATCH IN TOP OF VAULT SHALL BE 30"x30" ALUMINUM BILCO J-2AL, BILCO PCM-2, HALLIDAY W1S3030 OR EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE. IF THE LOCAL FIRE DEPARTMENT REQUIRES A SUMP PUMP IN THE VAULT, ELECTRICAL DISCONNECT IS REQUIRED ON TOP OF VAULT, INSTALLED ABOVE GRADE, PER LOCAL ELECTRICAL CODE.
8. A COMBINATION VAULT CAN BE USED ONLY IF METER IS LARGER THAN 2".
   a. METERS TO BE LOCATED A MAXIMUM 18" FROM HINGE SIDE OF HATCH.
   b. A 2" TEST PLUG SHALL BE INSTALLED AT LEAST 2 PIPE DIAMETERS DOWNSTREAM OF 3" OR LARGER METERS.
9. AS DIRECTED BY LOCAL OPERATIONS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED.
10. THE LID AND RING THAT WILL BE REQUIRED IS FORD A53-TT OR FORD A53-T. THE A53-TT WILL BE USED FOR ALL VAULTS WITH THE DOMESTIC METER INSIDE. THE A53-T WITH BE USED FOR ALL VAULTS WITH THE DCDA ONLY LOCATED INSIDE THE VAULT.

INDIANA AMERICAN WATER

SCALE: NO SCALE	LONG SIDE VAULT DETAIL		
REVISIONS	STANDARD FOR COMBINED FIRE SERVICE & METER VAULT FOR 3" AND LARGER SINGLE METER CONFIGURATION		
	DRAWN BY: R.K.B.	DATE: 2/2017	CHECKED: A.C.
	AUTOCAD FILE: FS-M-V-single larger than 2-short long side.DWG	APPROVED:	1 of 1

GDI CONSTRUCTION
9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

JUSTIN ERIC OLA... REGISTERED No. PE11800804 STATE OF INDIANA PROFESSIONAL ENGINEER
APPROVAL PENDING NOT FOR CONSTRUCTION

CERTIFIED BY

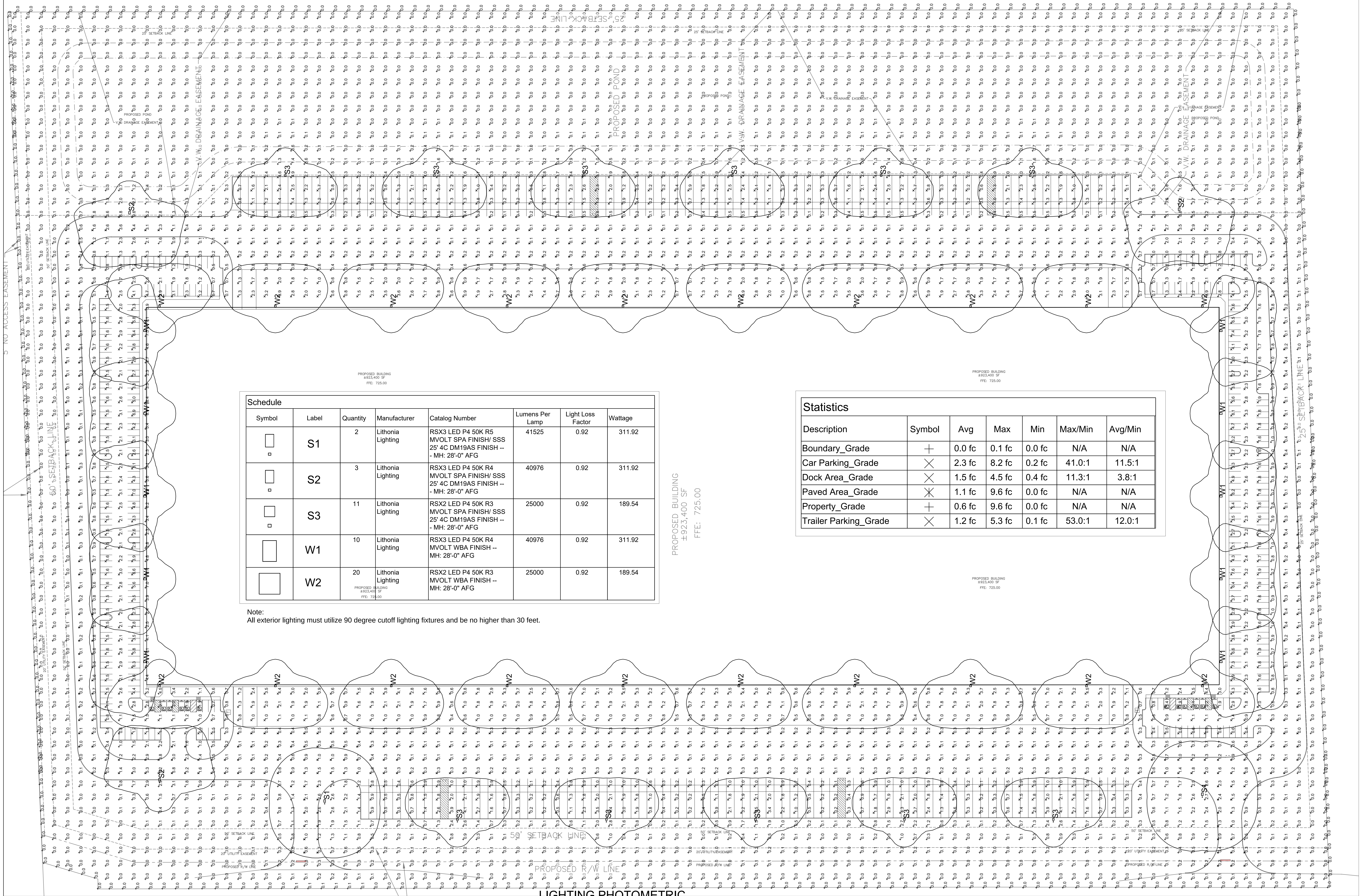
ISSUANCE INDEX
DATE:
12/03/2020
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

INDIANA AMERICAN WATER STANDARD DETAILS

C800



Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Lumens Per Lamp	Light Loss Factor	Wattage
▯	S1	2	Lithonia Lighting	RSX3 LED P4 50K R5 MVOLT SPA FINISH/ SSS 25' 4C DM19AS FINISH -- - MH: 28'-0" AFG	41525	0.92	311.92
▯	S2	3	Lithonia Lighting	RSX3 LED P4 50K R4 MVOLT SPA FINISH/ SSS 25' 4C DM19AS FINISH -- - MH: 28'-0" AFG	40976	0.92	311.92
▯	S3	11	Lithonia Lighting	RSX2 LED P4 50K R3 MVOLT SPA FINISH/ SSS 25' 4C DM19AS FINISH -- - MH: 28'-0" AFG	25000	0.92	189.54
▯	W1	10	Lithonia Lighting	RSX3 LED P4 50K R4 MVOLT WBA FINISH -- MH: 28'-0" AFG	40976	0.92	311.92
▢	W2	20	Lithonia Lighting	RSX2 LED P4 50K R3 MVOLT WBA FINISH -- MH: 28'-0" AFG	25000	0.92	189.54

Note:
All exterior lighting must utilize 90 degree cutoff lighting fixtures and be no higher than 30 feet.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Boundary_Grade	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Car Parking_Grade	×	2.3 fc	8.2 fc	0.2 fc	41.0:1	11.5:1
Dock Area_Grade	×	1.5 fc	4.5 fc	0.4 fc	11.3:1	3.8:1
Paved Area_Grade	⋇	1.1 fc	9.6 fc	0.0 fc	N/A	N/A
Property_Grade	+	0.6 fc	9.6 fc	0.0 fc	N/A	N/A
Trailer Parking_Grade	×	1.2 fc	5.3 fc	0.1 fc	53.0:1	12.0:1

LIGHTING PHOTOMETRIC

SCALE: $\frac{1}{64}$" = 1FT

Disclaimer
This lighting submittal is strictly based on the information provided to LIGHTsource, and is provided without warranty as to accuracy, completeness, reliability or otherwise. If the information (including but not limited to floor-plans, reflected ceiling plans, electrical plans and specifications) provided to Acuity Brands is incomplete or not current (i.e., newer versions exist), the accuracy of proposed design may be adversely affected. Once this lighting submittal is received by the customer or end-user (as applicable),it is the obligation of the customer or end-user (as applicable) to consult with a professional engineering advisor to determine whether the proposed design meets the applicable project requirements for lighting system performance, code compliance, safety, suitability and effectiveness for use in a particular application. In no event will LIGHTsource be responsible for any loss resulting from any use of any information contained in this lighting submittal.

GENERAL NOTES

GENERAL PLAN NOTES:

- MH: 28'-0" A.F.G.
- POINTS CALCULATED AT: GRADE
- LIGHT LOSS FACTOR: AS NOTED

****
FOR PRICING CONTACT
JANINE BURKHART 317-698-4175
****

No.	Revision/Issue	Date

Firm Name and Address

LIGHT|source
THE LIGHTING & CONTROLS EXPERTS
8719 CASTLE PARK DRIVE
INDIANAPOLIS, IN 46256
WWW.LIGHTSOURCEINDIANA.COM
p:317-598-6900

Project Name and Address

FRANKLIN
INDUSTRIAL
DEVELOPMENT
SITE LIGHTING PHOTOMETRIC

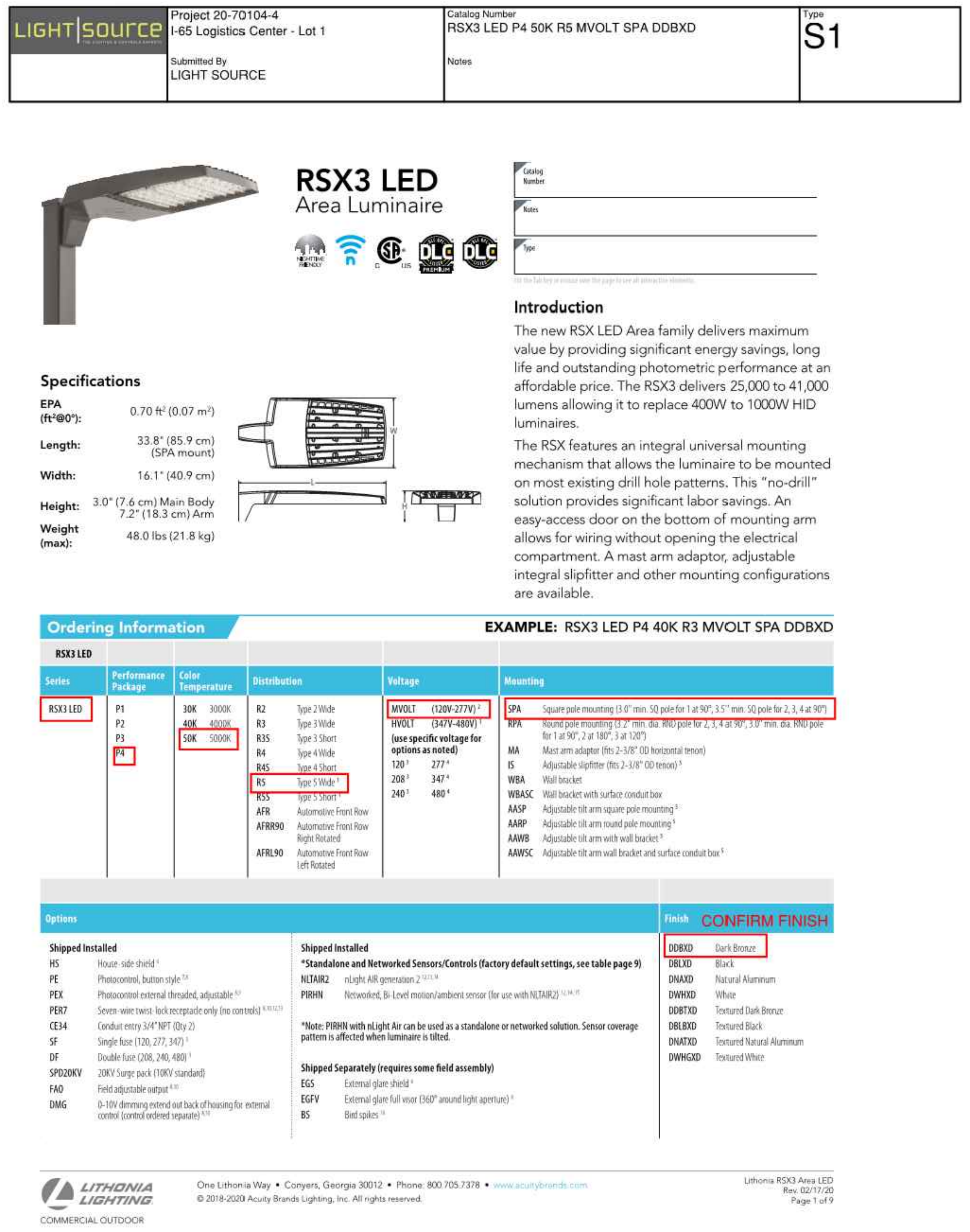
Drawn By
MJC

Scale
$\frac{1}{64}$" = 1'-0"

Date
2/5/20

Drawing #
LS-20-5028

Sheet No.
E101



LIGHT|source	Project 20-70104-4 I-65 Logistics Center - Lot 1	Catalog Number RSX3 LED P4 50K R5 MVOLT SPA DDBXD	Type S1
	Submitted By LIGHT SOURCE	Notes	

RSX3 LED
Area Luminaire

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA (ft²@0°):	0.70 ft² (0.07 m²)
Length:	33.8" (85.9 cm) (SPA mount)
Width:	16.1" (40.9 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm
Weight (max):	48.0 lbs (21.8 kg)

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX3 delivers 25,000 to 41,000 lumens allowing it to replace 400W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX3 LED P4 40K R3 MVOLT SPA DDBXD

RSX3 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX3 LED	P1	30K 3000K	R2 Type 2 Wide	MVOLT (120V-277V) [2]	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°)
	P2	40K 4000K	R3 Type 3 Wide	HVOLT (347V-480V) [1]	RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°)
	P3	50K 5000K	R3S Type 3 Short	**(use specific voltage for options as noted)**	
	P4		R4 Type 4 Wide		MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon)
			R4S Type 4 Short	120 [3] 277 [4]	IS Adjustable slipfitter (fits 2-3/8" OD tenon) [5]
			R5 Type 5 Wide [1]	208 [3] 347 [4]	WBA Wall bracket
			R5S Type 5 Short [1]	240 [3] 480 [4]	WBASC Wall bracket with surface conduit box
			AFR Automotive Front Row		AASP Adjustable tilt arm square pole mounting [5]
			AFRR90 Automotive Front Row Right Rotated		AARP Adjustable tilt arm round pole mounting [5]
			AFRL90 Automotive Front Row Left Rotated		AAWB Adjustable tilt arm with wall bracket [5]
					AAWSC Adjustable tilt arm wall bracket and surface conduit box [5]

Options

Shipped Installed

HS	House-side shield [4]
PE	Photocontrol, button style [7,8]
PEX	Photocontrol external threaded, adjustable [8,9]
PER7	Seven-wire twist-lock receptacle only (no controls) [8,10,12,13]
CE34	Conduit entry 3/4" NPT (Qty 2)
SF	Single fuse (120, 277, 347) [3]
DF	Double fuse (208, 240, 480) [3]
SPD20KV	20KV Surge pack (10KV standard)
FAO	Field adjustable output [8,10]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) [8,10]

Shipped Installed

***Standalone and Networked Sensors/Controls (factory default settings, see table page 9)**

NLTAIR2	nLight AIR generation 2 [12,13,14]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [12,14,15]

***Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.**

Shipped Separately (requires some field assembly)

EGS	External glare shield [4]
EGFV	External glare full visor (360° around light aperture) [4]
BS	Bird spikes [16]

Finish CONFIRM FINISH

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured Dark Bronze
DBLBXD	Textured Black
DNATXD	Textured Natural Aluminum
DWHGXD	Textured White

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.705.7378 • www.acuitybrands.com
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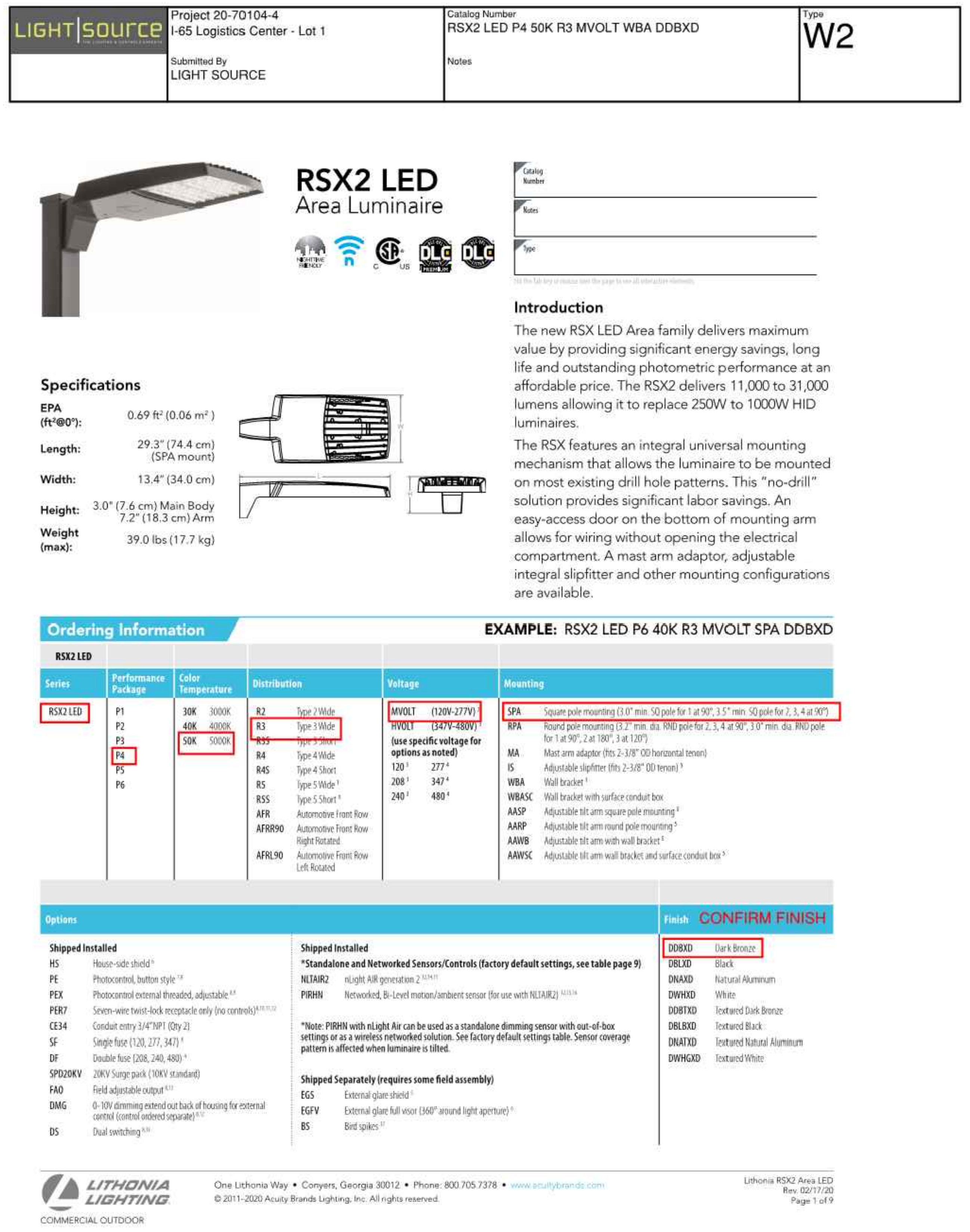
Lithonia RSX3 Area LED
Rev. 02/17/20
Page 1 of 9



LIGHT|source	Project 20-70104-4 I-65 Logistics Center - Lot 1	Catalog Number RSX2 LED P4 50K R3 MVOLT WBA DDBXD	Type W2
	Submitted By LIGHT SOURCE	Notes	

RSX2 LED
Area Luminaire

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA (ft²@0°):	0.69 ft² (0.06 m²)
Length:	29.3" (74.4 cm) (SPA mount)
Width:	13.4" (34.0 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm
Weight (max):	39.0 lbs (17.7 kg)

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

RSX2 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX2 LED	P1	30K 3000K	R2 Type 2 Wide	MVOLT (120V-277V) [2]	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°)
	P2	40K 4000K	R3 Type 3 Wide	HVOLT (347V-480V) [3]	RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°)
	P3	50K 5000K	R3S Type 3 Short	**(use specific voltage for options as noted)**	
	P4		R4 Type 4 Wide		MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon)
	P5		R4S Type 4 Short	120 [3] 277 [4]	IS Adjustable slipfitter (fits 2-3/8" OD tenon) [3]
	P6		R5 Type 5 Wide [1]	208 [3] 347 [4]	WBA Wall bracket [1]
			R5S Type 5 Short [1]	240 [3] 480 [4]	WBASC Wall bracket with surface conduit box
			AFR Automotive Front Row		AASP Adjustable tilt arm square pole mounting [5]
			AFRR90 Automotive Front Row Right Rotated		AARP Adjustable tilt arm round pole mounting [5]
			AFRL90 Automotive Front Row Left Rotated		AAWB Adjustable tilt arm with wall bracket [5]
					AAWSC Adjustable tilt arm wall bracket and surface conduit box [5]

Options

Shipped Installed

HS	House-side shield [6]
PE	Photocontrol, button style [7,8]
PEX	Photocontrol external threaded, adjustable [8,9]
PER7	Seven-wire twist-lock receptacle only (no controls) [8,10,11,12]
CE34	Conduit entry 3/4" NPT (Qty 2)
SF	Single fuse (120, 277, 347) [4]
DF	Double fuse (208, 240, 480) [4]
SPD20KV	20KV Surge pack (10KV standard)
FAO	Field adjustable output [8,13]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) [8,12]
DS	Dual switching [8,19]

Shipped Installed

***Standalone and Networked Sensors/Controls (factory default settings, see table page 9)**

NLTAIR2	nLight AIR generation 2 [12,14,15]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [12,13,14]

***Note: PIRHN with nLight Air can be used as a standalone dimming sensor with out-of-box settings or as a wireless networked solution. See factory default settings table. Sensor coverage pattern is affected when luminaire is tilted.**

Shipped Separately (requires some field assembly)

EGS	External glare shield [5]
EGFV	External glare full visor (360° around light aperture) [6]
BS	Bird spikes [17]

Finish CONFIRM FINISH

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured Dark Bronze
DBLBXD	Textured Black
DNATXD	Textured Natural Aluminum
DWHGXD	Textured White

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

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Lithonia RSX2 Area LED
Rev. 02/17/20
Page 1 of 9

GENERAL NOTES

GENERAL PLAN NOTES:

- MH: 28'-0" A.F.G.
- POINTS CALCULATED AT: GRADE
- LIGHT LOSS FACTOR: AS NOTED

****

FOR PRICING CONTACT
JANINE BURKHART 317-698-4175

****

No.	Revision/Issue	Date

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Firm Name and Address

LIGHT|source
THE LIGHTING & CONTROLS EXPERTS

8719 CASTLE PARK DRIVE
INDIANAPOLIS, IN 46256
WWW.LIGHTSOURCEINDIANA.COM
p:317-598-6900

Project Name and Address

FRANKLIN INDUSTRIAL DEVELOPMENT

SITE LIGHTING PHOTOMETRIC

Drawn By
MJC

Scale
$\frac{1}{64}$" = 1'-0"

Date
2/5/20

Drawing #
LS-20-5028

Sheet No.
E102