

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX SHEET
2 - 3	TYPICAL SECTIONS & MISCELLANEOUS DETAIL SHEETS
4	EXISTING SITE PLAN
5	PROPOSED SITE PLAN
6	PROPOSED CONTOUR AND ELEVATION SHEET
7	PAVED DITCH DETAILS
8	EROSION CONTROL SHEET
9	NYLOPLAST DETAIL SHEET

UTILITIES	
FIBER OPTICS: JACKSON COUNTY REMC ATTN: LANCE ADAMS 274 E. BASE RD. BROWNSTOWN, IN 47220 812-277-6442 LADAMS@JACKSONREMC.COM	CABLE TV: COMCAST ATTN: TOM DAVIS 1470 JACKSON STREET COLUMBUS, IN 47201 765-692-0676 (WORK) 765-545-0234 (CELL) THOMAS_DAVIS@COMCAST.COM
WATER JACKSON COUNTY WATER ATTN: LARRY MCINTOSH 1119 W SPRING ST BROWNSTOWN, IN 47220 812-358-3654 MANAGER@JACKSONCOUNTYWATER.COM	TELEPHONE: FRONTIER COMMUNICATION ATTN: ROBIN BRANSON 24373 CR 45 ELKHART, IN 56416 574-875-3789 ROBIN.H.BRANSON@FTR.COM

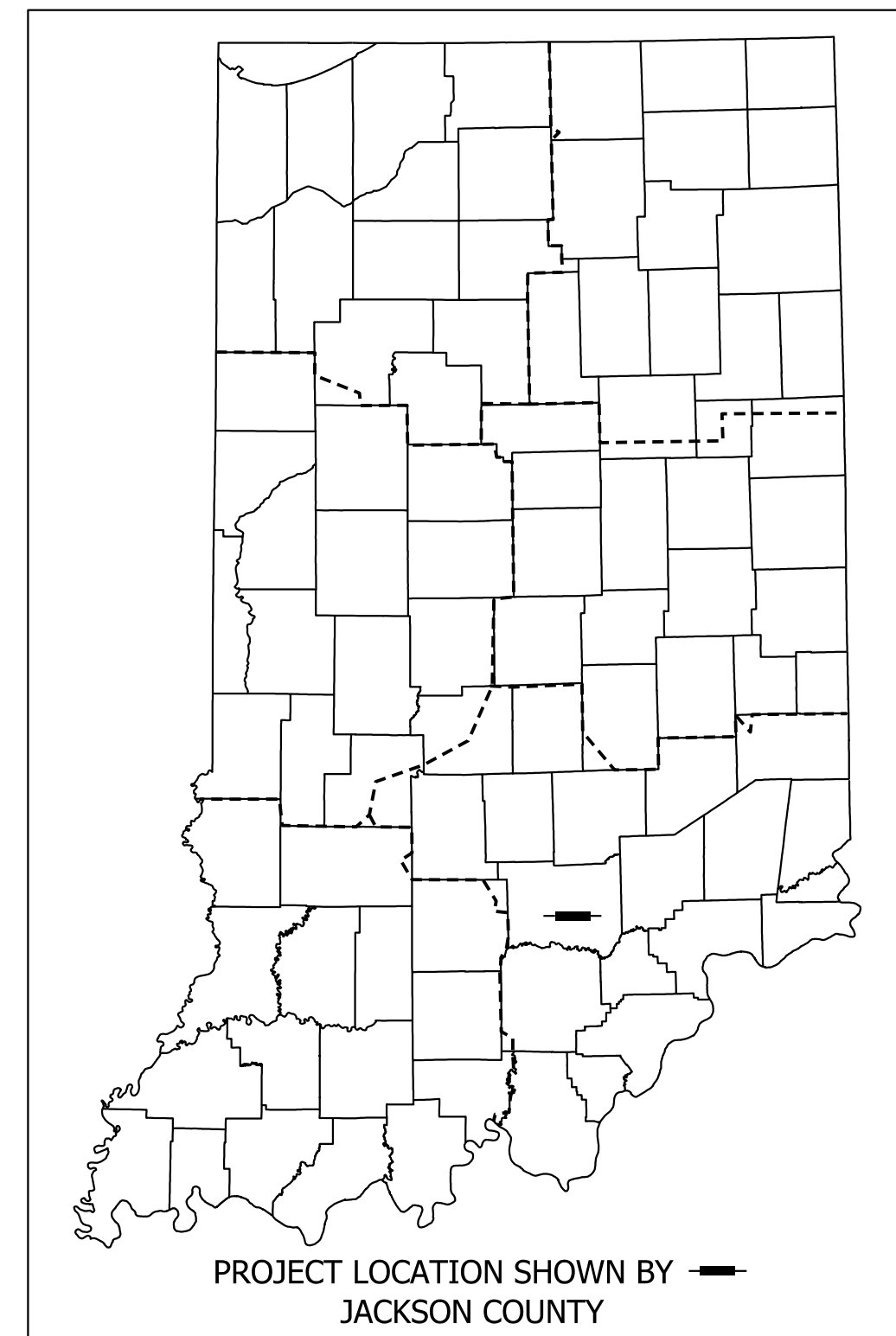
FOR UNDERGROUND UTILITIES, CALL: WITHIN INDIANA
1-800-382-5544 (TOLLFREE)
FROM OUTSIDE INDIANA 1-800-428-5200 (TOLLFREE)

INDIANA DEPARTMENT OF NATURAL RESOURCES

JACKSON - WASHINGTON STATE FOREST

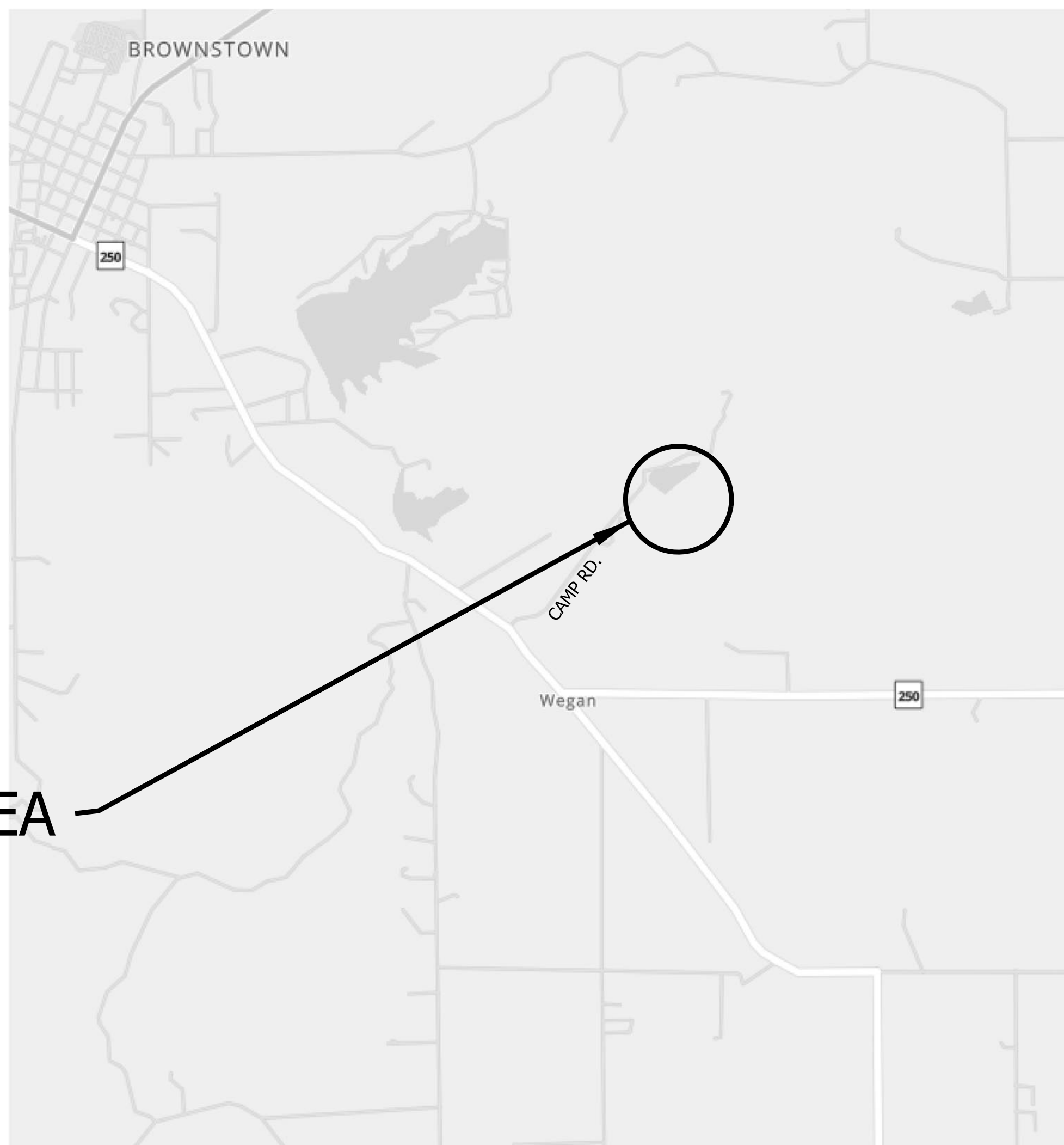
PROJECT NO: ENG # 2409635013

PROJECT DESCRIPTION
RECONSTRUCTION OF PAVEMENT AROUND THE JACKSON - WASHINGTON STATE FOREST PARK OFFICE. THIS PROJECT IS LOCATED IN SECTION 19, T-5-N, R-5-E, BROWNSTOWN TOWNSHIP, JACKSON COUNTY, INDIANA.



CLOUDED AREAS ON PAGES 3-6, & 8
 ADDRESS CHANGES MADE IN
 ADDENDUM #1

 ALL OTHER SHEETS HAVE NO CHANGES.



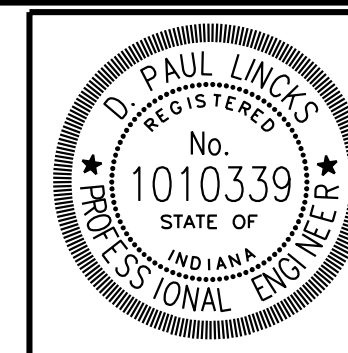
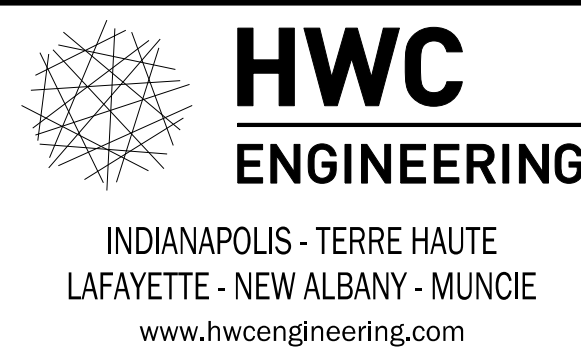
PROJECT AREA

JACKSON COUNTY

1" = 2000'
 LATITUDE = 38°51'38" N
 LONGITUDE = 86°00'26" W

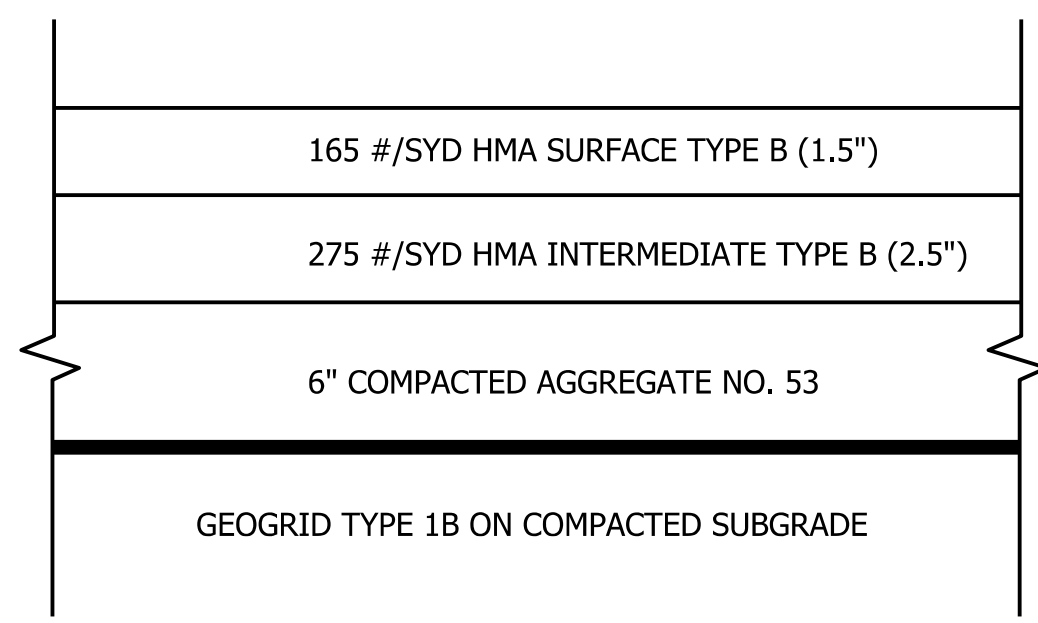
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INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS

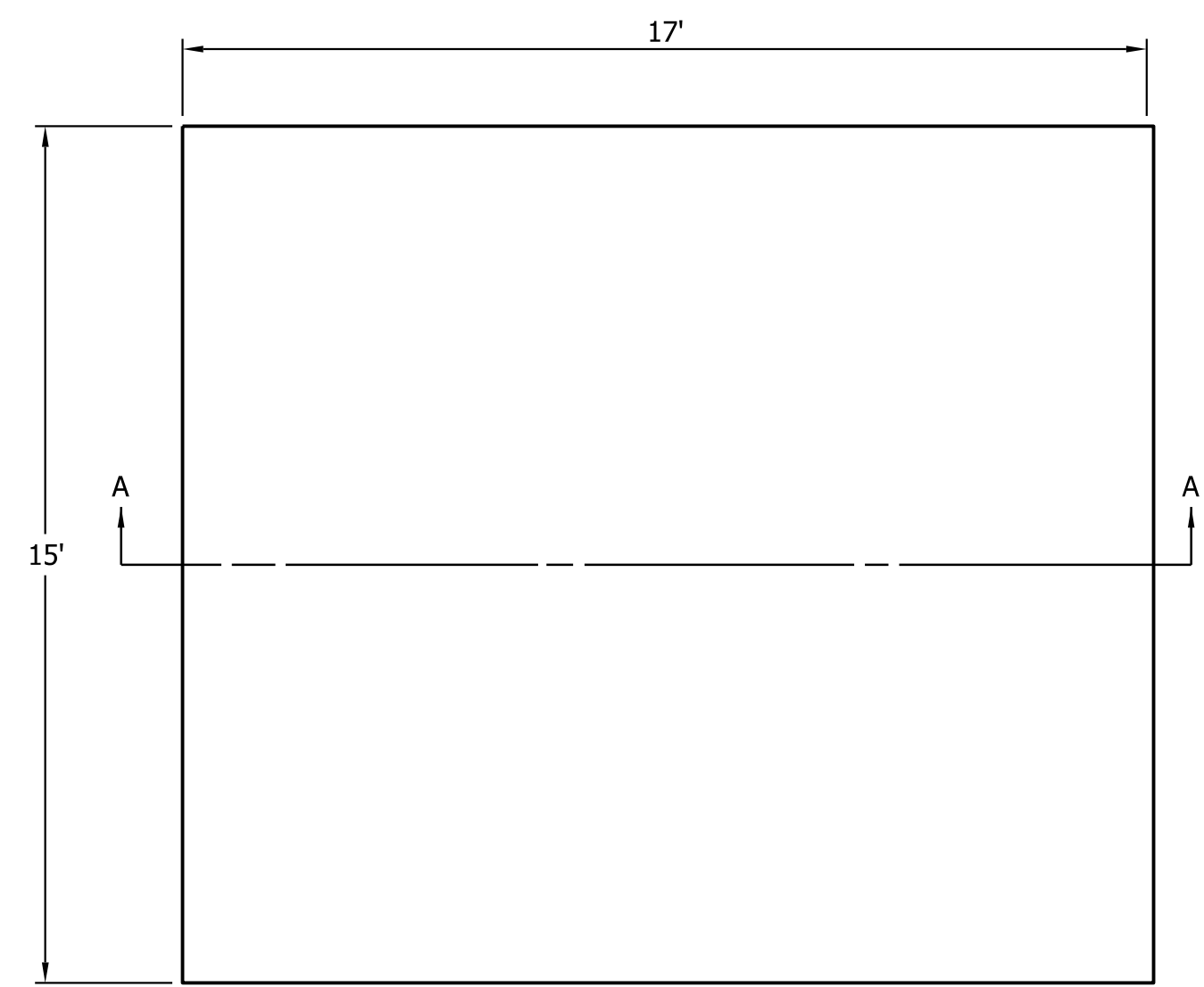


PLANS PREPARED BY:	HWC ENGINEERING	812-675-4458 PHONE NUMBER
CERTIFIED BY:	<i>D. Paul Lincis</i>	9-6-23 DATE

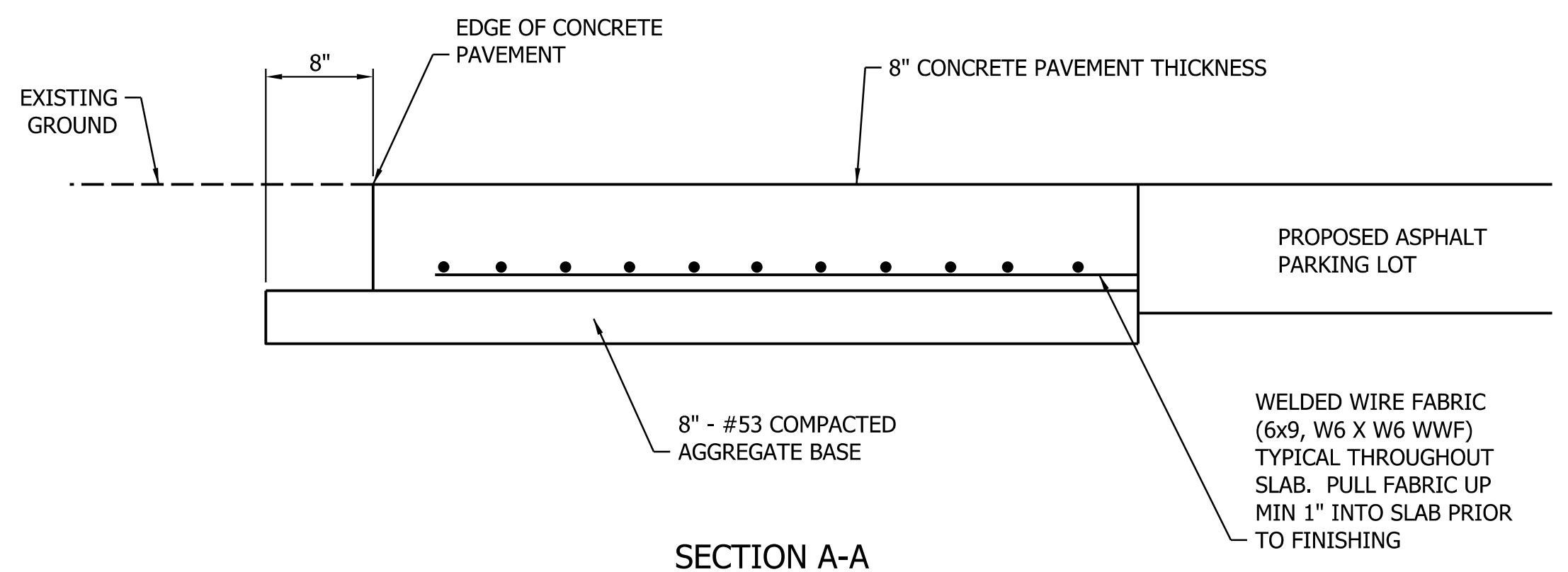
SHEETS		
1	of	9
PROJECT		
ENG # 2409635013		



PARKING LOT PAVEMENT SECTION
DETAIL - NOT TO SCALE



PLAN

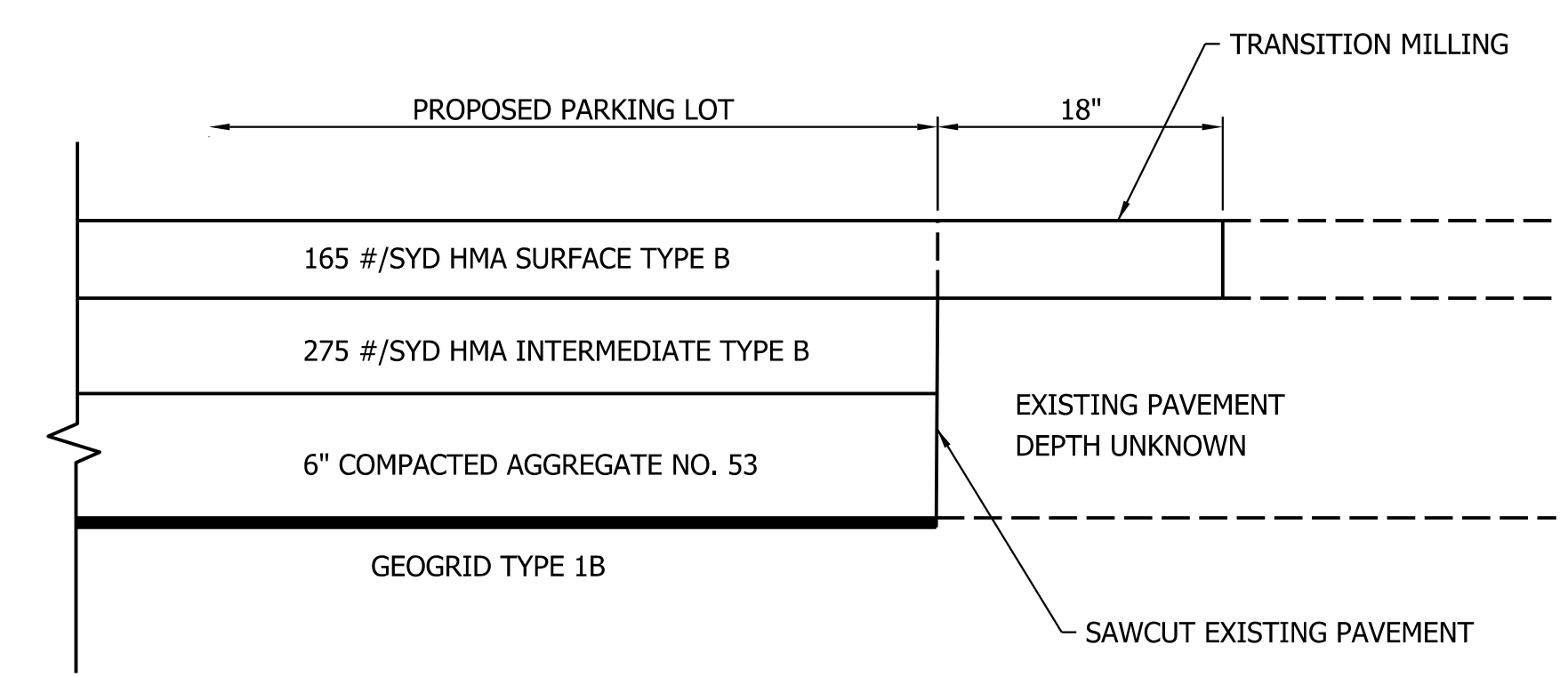


CONCRETE PAD FOR GAS AND DIESEL TANKS
DETAIL - NOT TO SCALE



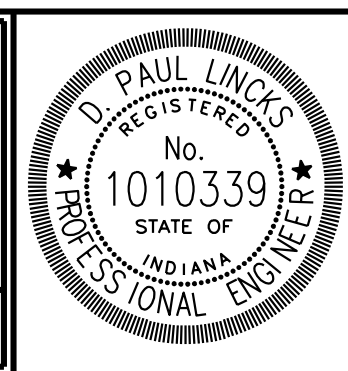
- 1 EX. CONCRETE SIDEWALK TO BE REMOVED & NEW HMA PAVEMENT FOR PARKING LOT INSTALLED
- 2 EX. CONCRETE SIDEWALK TO BE REMOVED & NEW 4" CONCRETE SIDEWALK INSTALLED
- 3 EX. BOTTOM TWO POST AND STEPS TO BE REMOVED PRIOR TO CONSTRUCTION BY DNR. DNR WILL REINSTALL STEPS AFTER CONSTRUCTION IS COMPLETE.
- 4 TO BE EXCAVATED, GRADED AND 4" CONCRETE SIDEWALK TO BE INSTALLED
- 5 DOWNSPOUT TO BE DRAINED OFFSITE (SEE SITE PLAN)
- 6 EXISTING CONCRETE FOOTING FOR STEPS TO REMAIN IN PLACE. NEW SIDEWALK BUILT AROUND FOOTING.

STEP AND CONCRETE DETAILS
FOR BACK OF BUILDING
NOT TO SCALE



SAWCUT DETAIL
NOT TO SCALE

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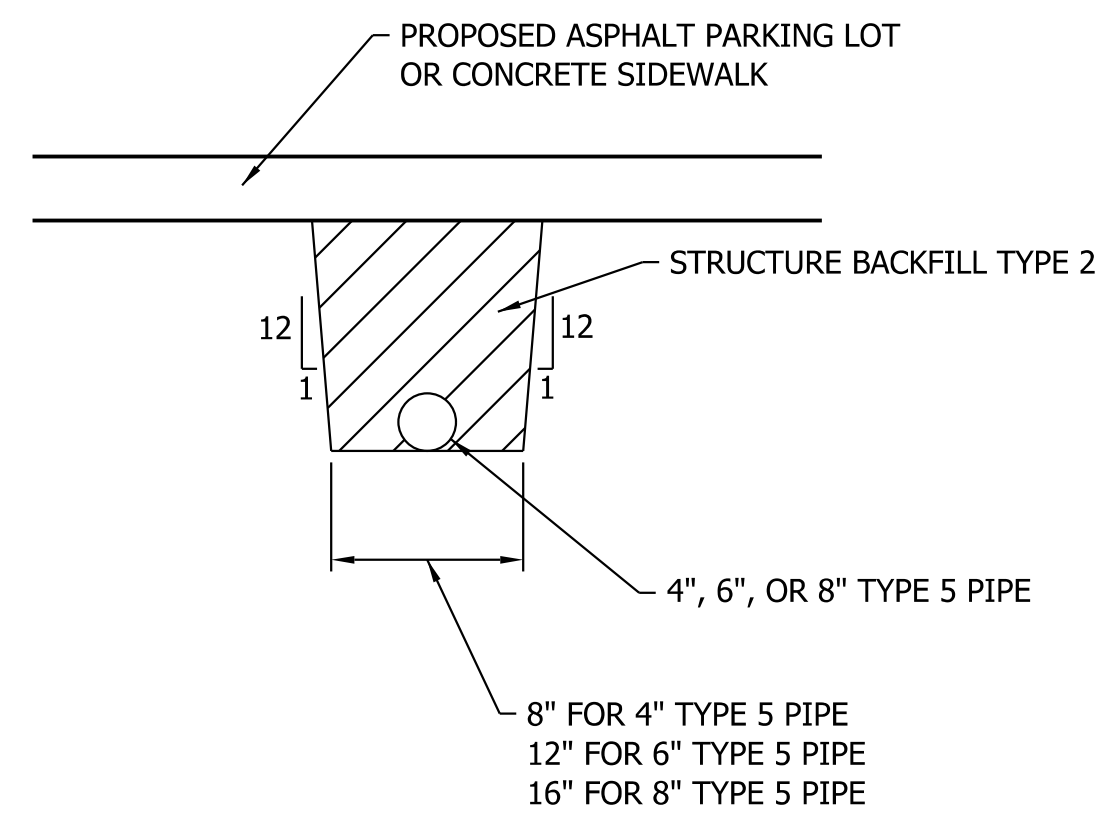


RECOMMENDED FOR APPROVAL	<i>D. Paul Links</i>	9-6-23
DESIGNED:	KAM	DRAWN:
CHECKED:	DPL	CHECKED:

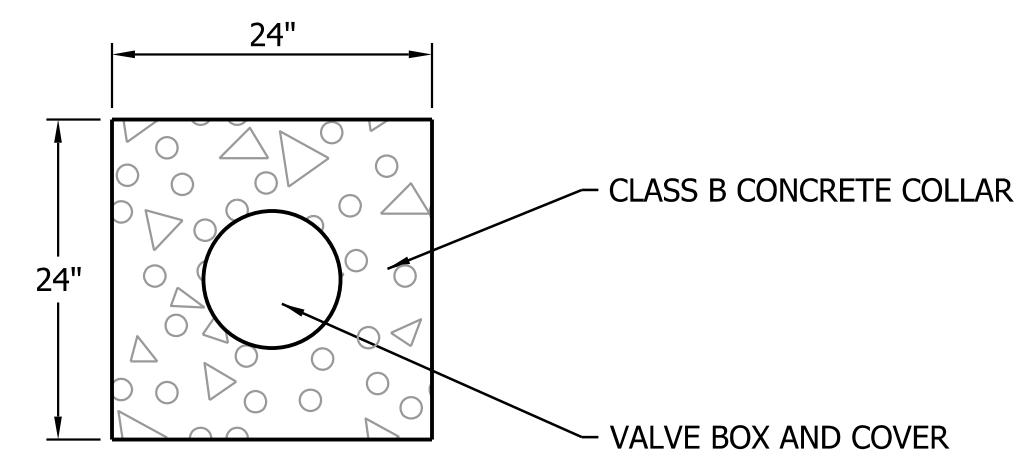
INDIANA DEPARTMENT
OF NATURAL RESOURCES

TYPICAL SECTION &
MISCELLANEOUS DETAILS

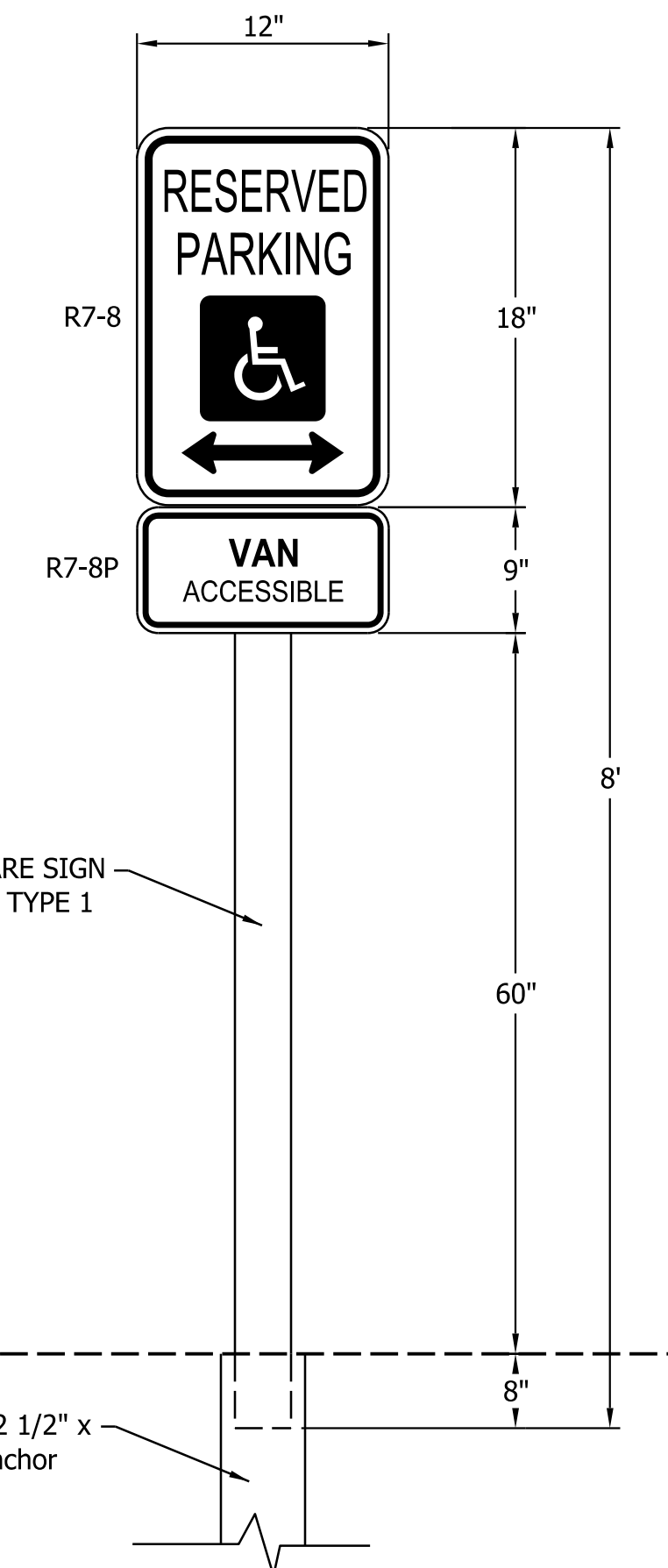
HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	2 of 9
CONTRACT	PROJECT
	ENG # 2409635013



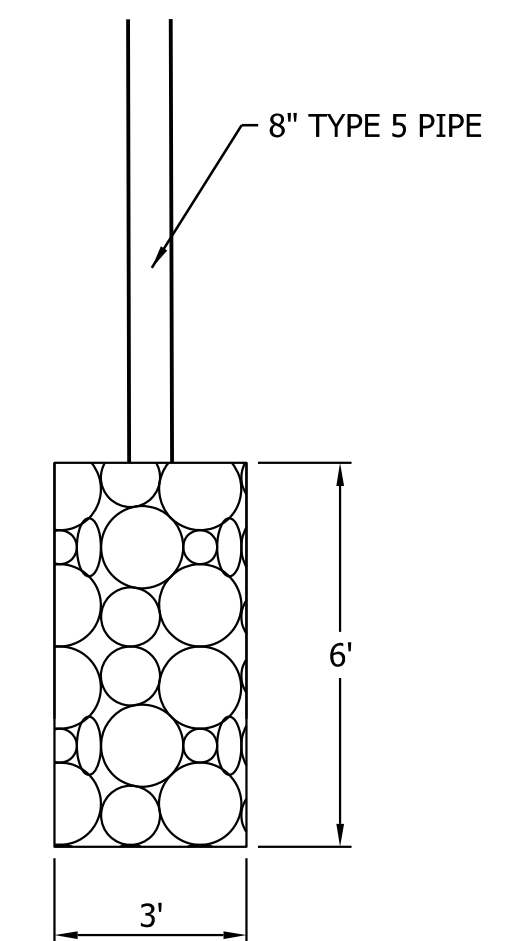
BACKFILL DETAIL
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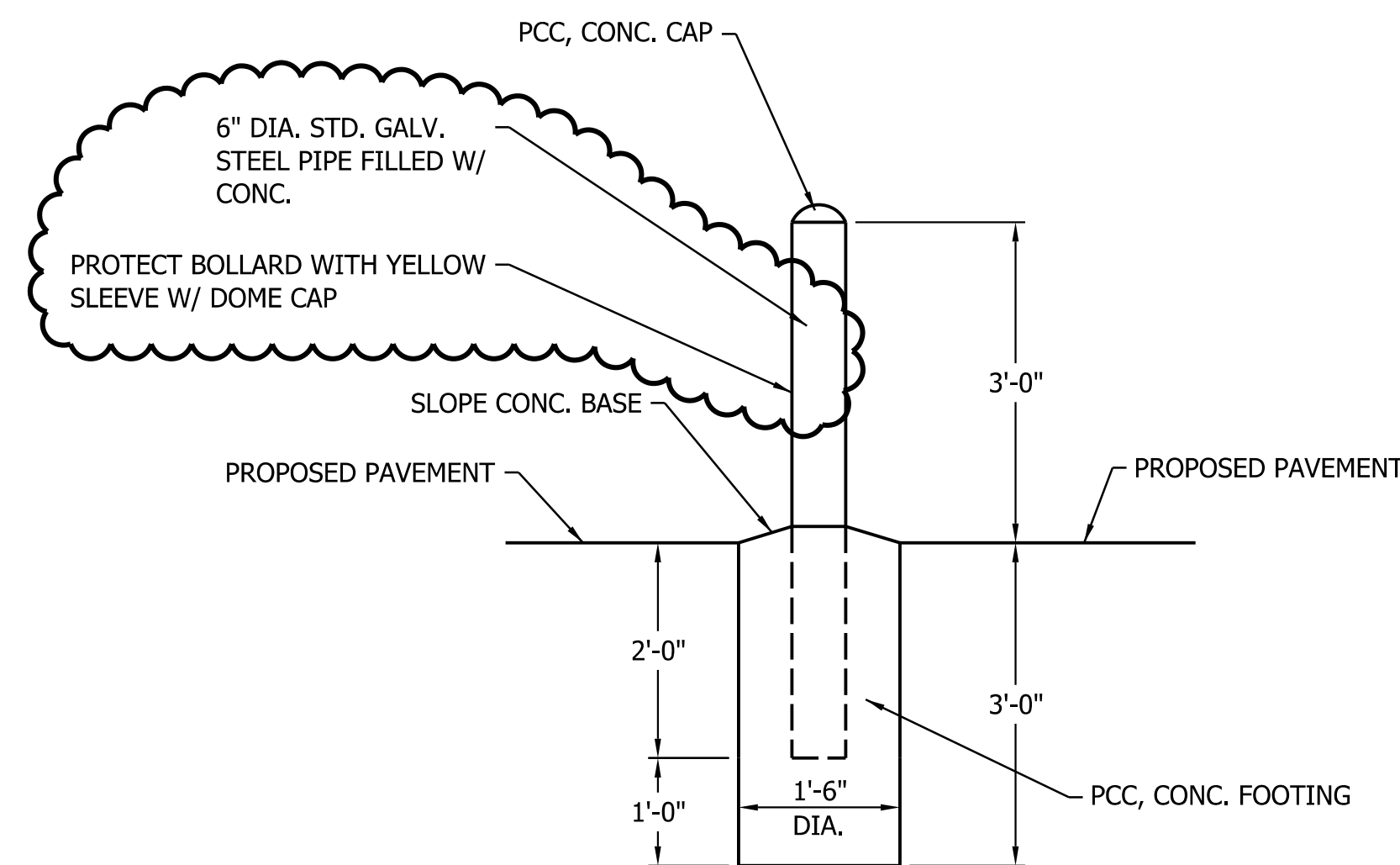
PLAN VIEW



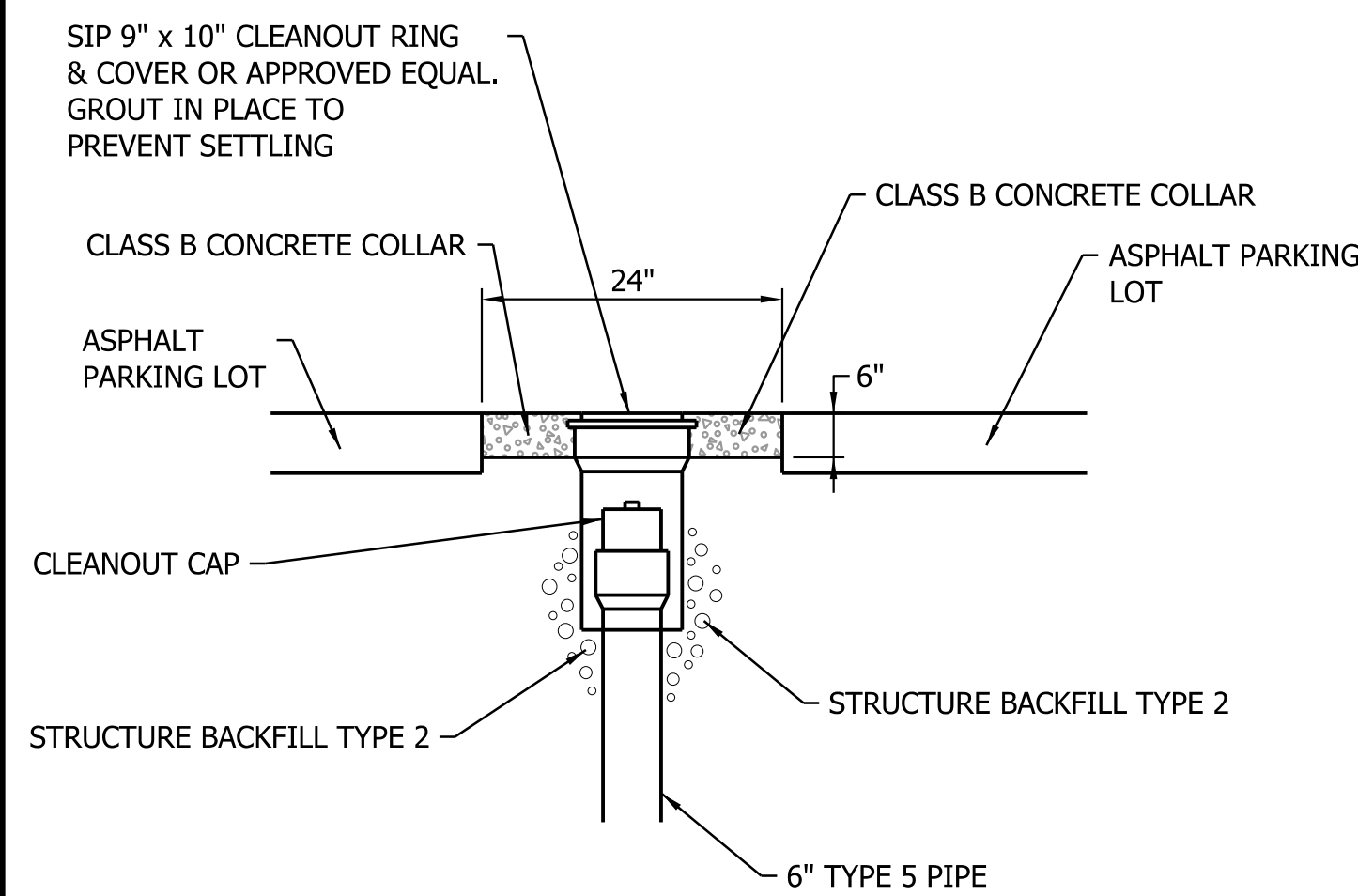
ADA SIGN DETAIL
NOT TO SCALE



PLAN VIEW

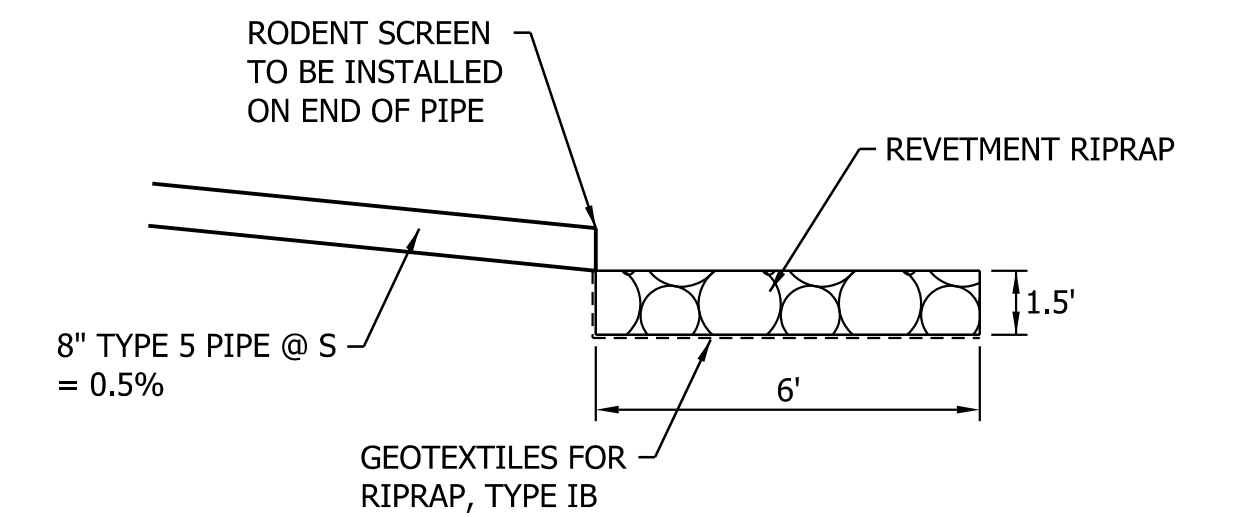


CONCRETE BOLLARD DETAIL
NOT TO SCALE



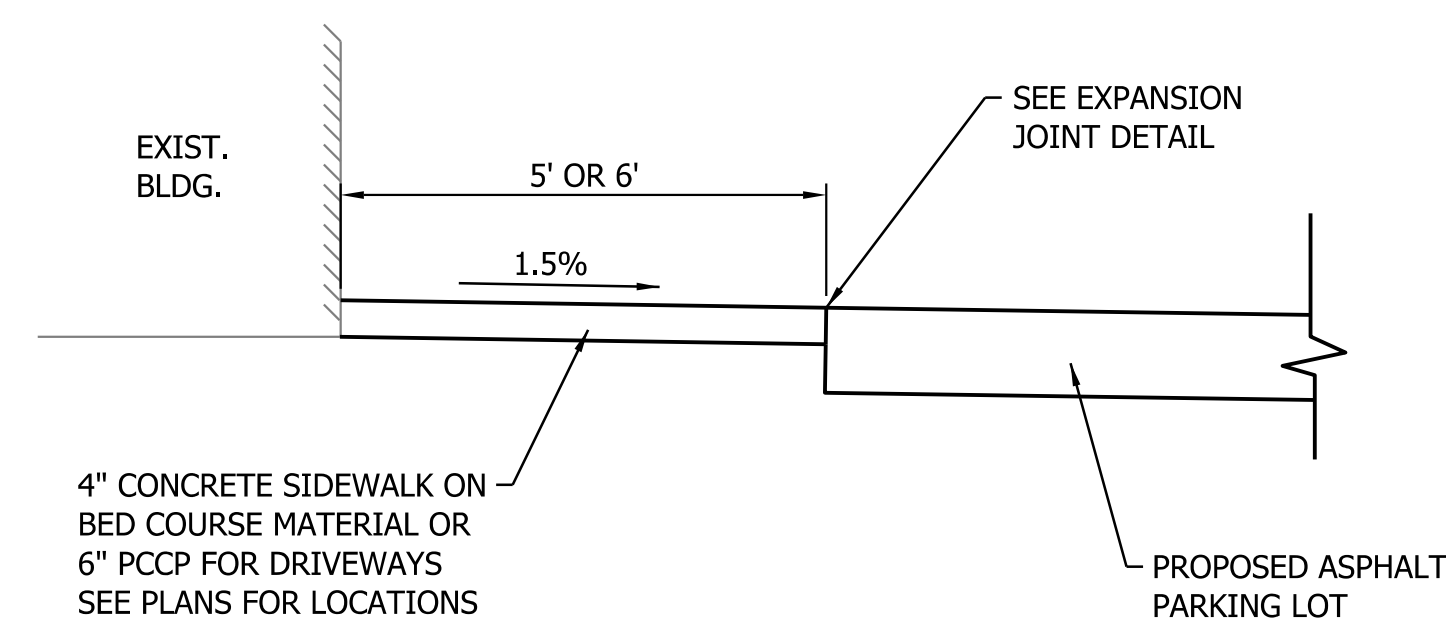
SECTION VIEW

CLEANOUT DETAIL
NOT TO SCALE

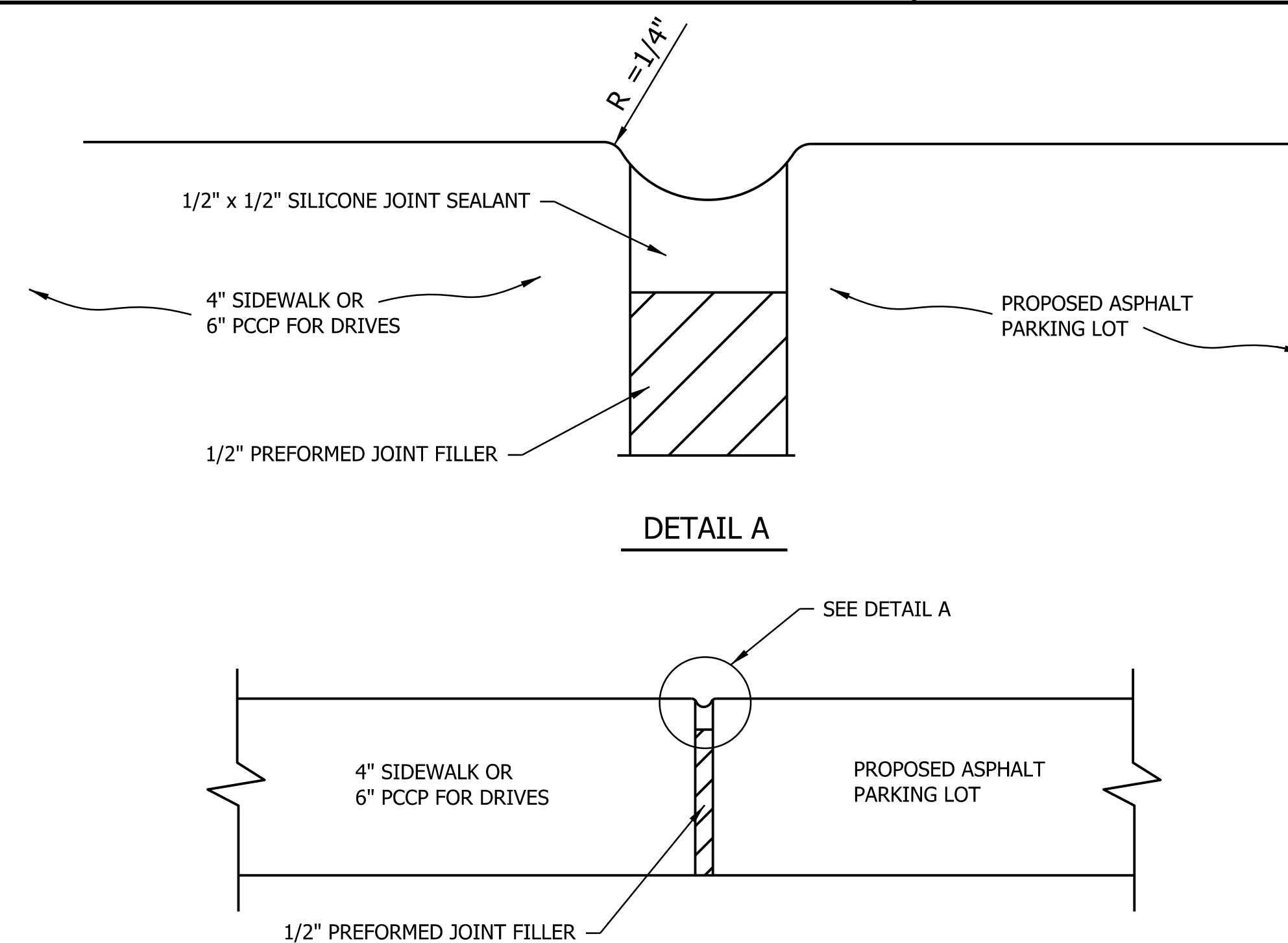


SECTION VIEW

PIPE OUTLET DETAIL
NOT TO SCALE

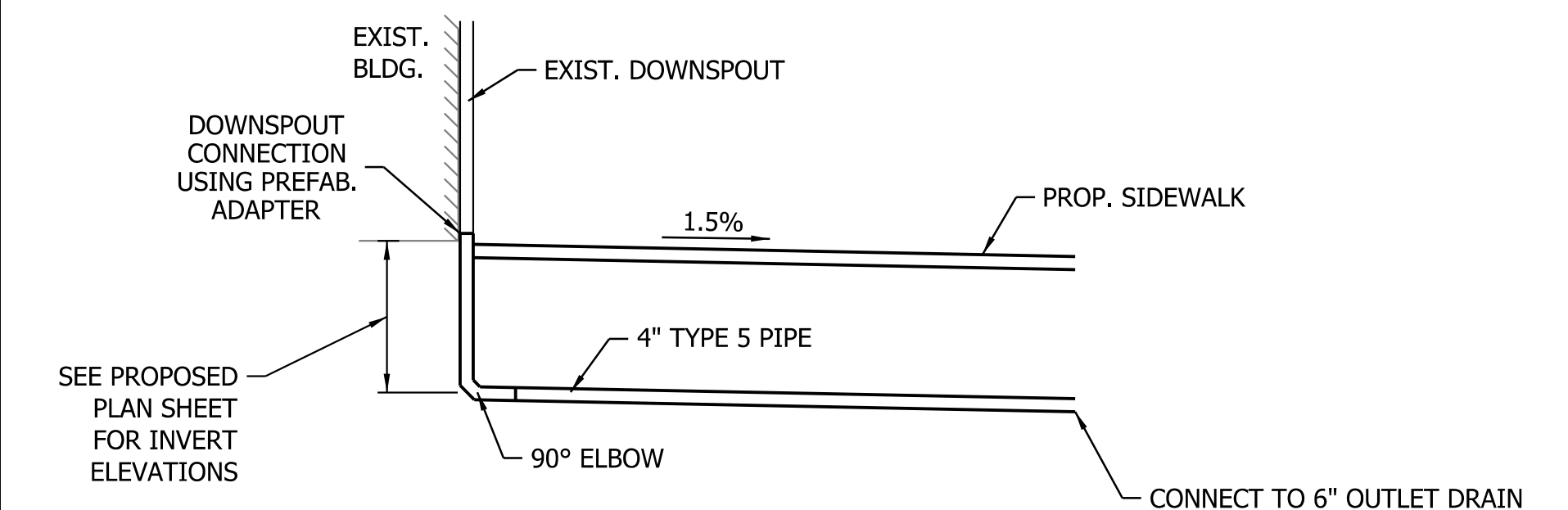


SIDEWALK TYPICAL SECTION
NOT TO SCALE



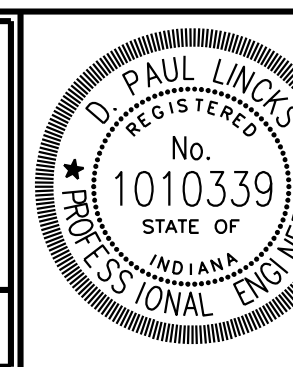
DETAIL A

EXPANSION JOINT DETAIL
NOT TO SCALE



ROOF DRAIN CONNECTION DETAIL
NOT TO SCALE

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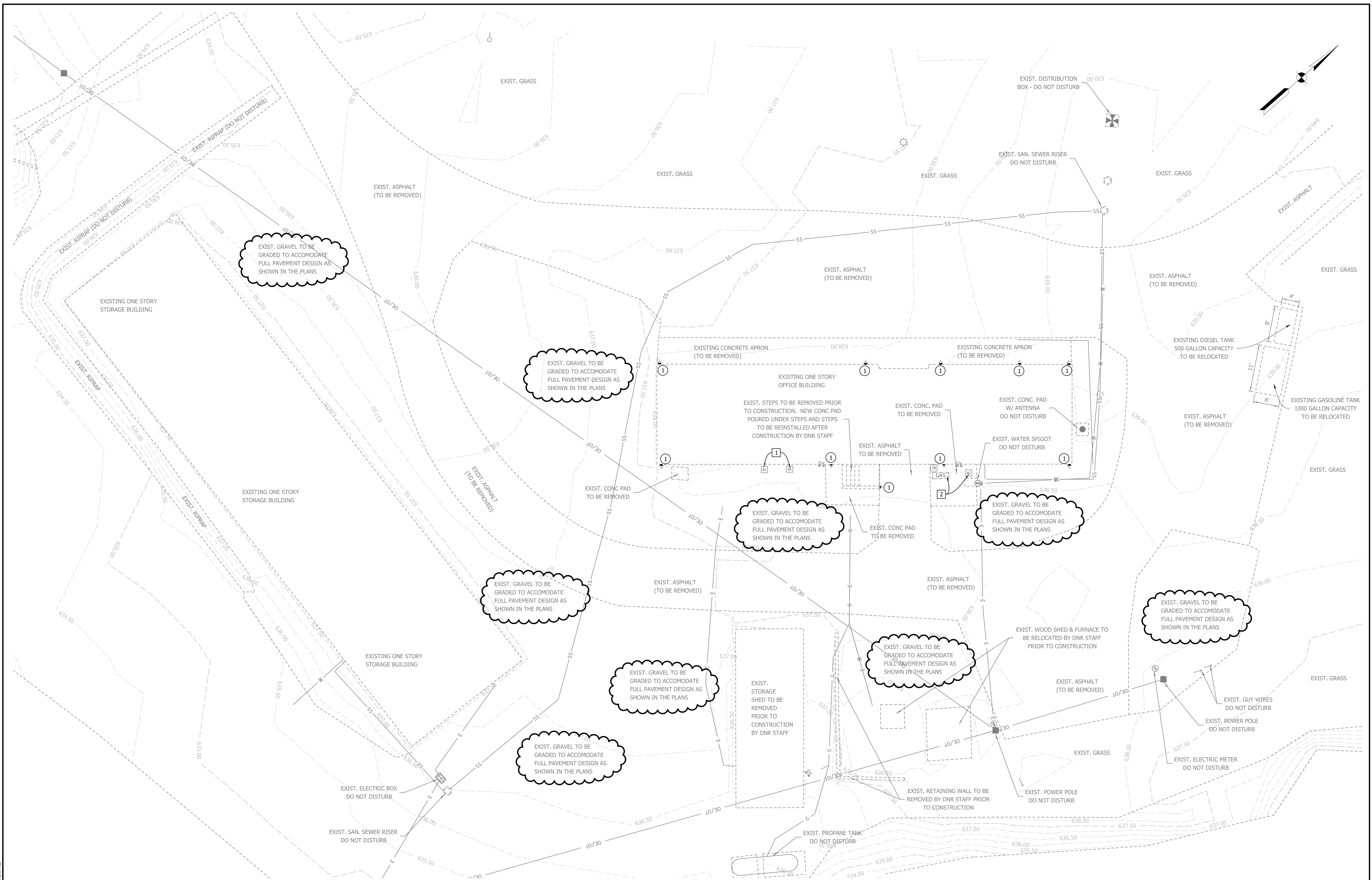
RECOMMENDED FOR APPROVAL: *D. Paul Lincks* 9-6-23
DESIGN ENGINEER DATE

DESIGNED: KAM DRAWN: KAM
CHECKED: DPL CHECKED: DPL

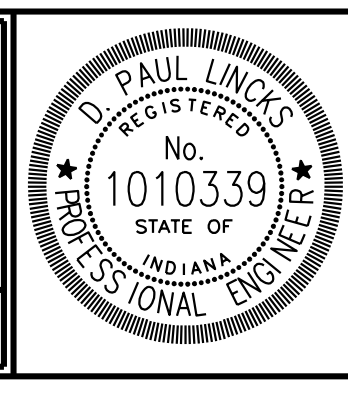
INDIANA DEPARTMENT
OF NATURAL RESOURCES

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	3 of 9
CONTRACT	PROJECT
	ENG # 2409635013



- ① EXISTING DOWNSPOUT TO BE DRAINED OFFSITE USING OUTLET PIPE (SEE PROPOSED PLAN)
- ① EXISTING A/C UNITS TO BE REMOVED AND STORED PRIOR TO CONSTRUCTION. TO BE RESET AFTER NEW ASPHALT IS COMPLETED.
- ② EXISTING LP GENERATOR & A/C UNIT TO BE REMOVED AND STORED FOR REMOVAL OF CONCRETE PAD. TO BE RESET AFTER INSTALLATION OF NEW CONCRETE PAD.



RECOMMENDED FOR APPROVAL	<i>D. Paul Links</i>	DESIGN ENGINEER	9-6-23	DATE
DESIGNED:	KAM	DRAWN:	KAM	
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INDIANA DEPARTMENT OF NATURAL RESOURCES

**EXISTING SITE PLAN
JACKSON - WASH OFFICE SITE**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEETS
	4 of 9
CONTRACT	PROJECT
	ENG # 2409635013

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- 3 106 LF OF 6" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.24
DOWNSTREAM INV. = 635.71
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 8" PIPE
- 8 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.02
DOWNSTREAM INV. = 635.98
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 6 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.21
DOWNSTREAM INV. = 636.17
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 4 20 LF OF 6" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.34
DOWNSTREAM INV. = 636.24
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 9 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 635.77
DOWNSTREAM INV. = 635.73
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 7 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.11
DOWNSTREAM INV. = 636.07
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 5 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.26
DOWNSTREAM INV. = 636.22
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE

SAW CUT EXISTING ASPHALT & TRANSITION MILLING

INSTALL TYPE III BARRICADES FOR MAINTAINING TRAFFIC

INSTALL TYPE III BARRICADES FOR MAINTAINING TRAFFIC

SAW CUT EXISTING ASPHALT & TRANSITION MILLING

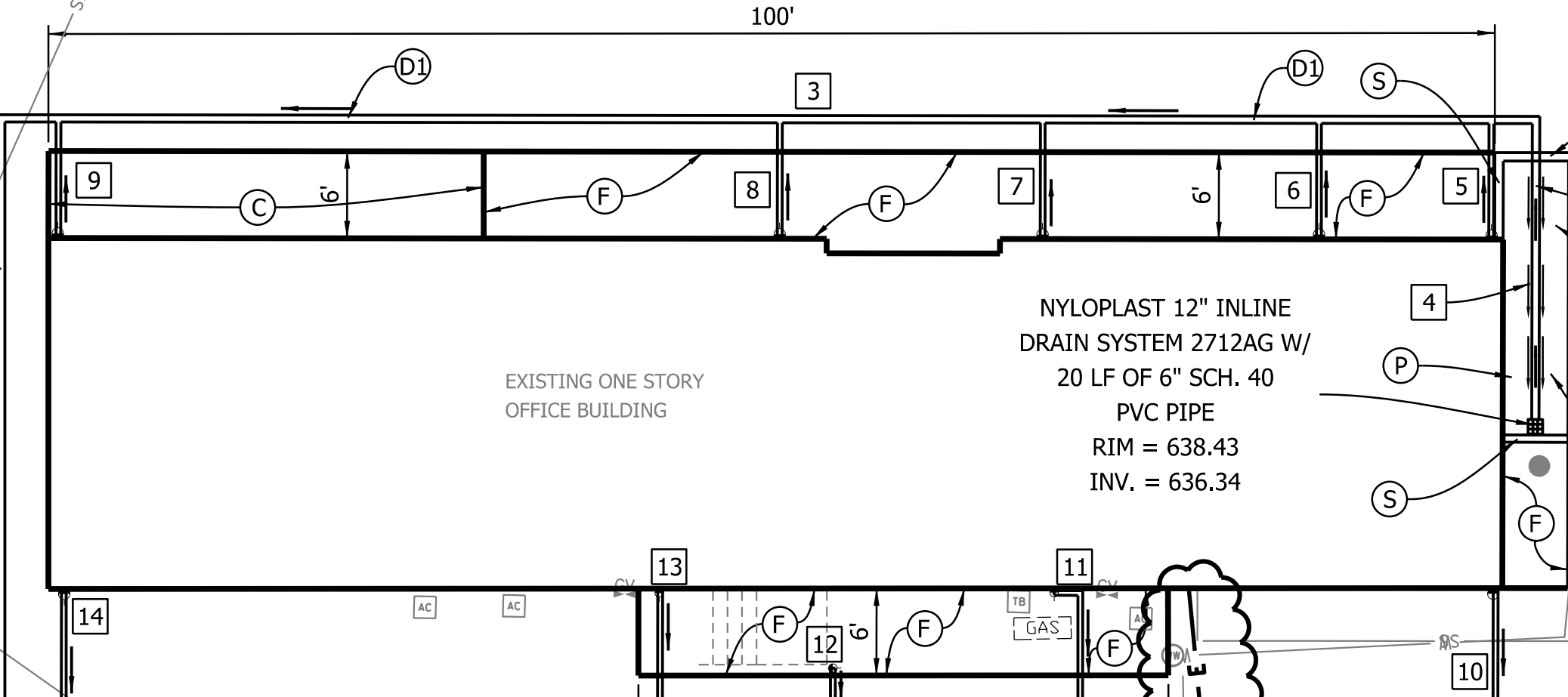
PLACE BOLLARDS ALONG BUILDING EDGE @ ALL GARAGE DOORS AND DOORWAYS. SHOWN AT APPROX. LOCATION. PLEASE VERIFY LOCATION WITH IDNR ON SITE STAFF.

EXISTING ONE STORY STORAGE BUILDING

PLACE BOLLARDS ALONG BUILDING EDGE @ ALL GARAGE DOORS AND DOORWAYS. SHOWN AT APPROX. LOCATION. PLEASE VERIFY LOCATION WITH IDNR ON SITE STAFF.

PLACE BOLLARDS ALONG BUILDING EDGE @ ALL GARAGE DOORS AND DOORWAYS. SHOWN AT APPROX. LOCATION. PLEASE VERIFY LOCATION WITH IDNR ON SITE STAFF.

EXISTING ONE STORY STORAGE BUILDING



NYLOPLAST 12" INLINE DRAIN SYSTEM 2712AG W/ 20 LF OF 6" SCH. 40 PVC PIPE
RIM = 638.43
INV. = 636.34

4.5' WIDE PAVED DITCH W/ 1' FLAT BOTTOM

PROPOSED ELECTRIC LINE FOR SHUT OFF VALVE FOR GAS AND DIESEL TANK

PROPOSED BOLLARD (5' SPAC.)

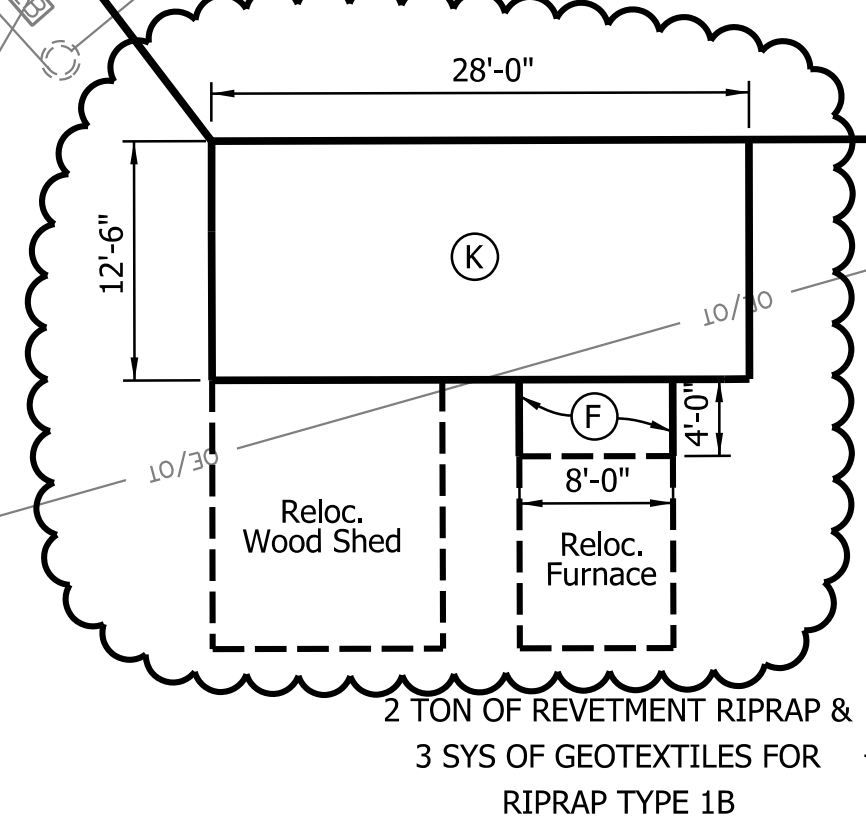
PROPOSED ELECTRIC LINE FOR SHUT OFF VALVE FOR GAS AND DIESEL TANK

PROPOSED BOLLARD

RELOCATED GAS & DIESEL TANKS

ALL DISTURBED AREAS OUTSIDE OF PAVEMENT TO BE GRADED, TOP SOIL APPLIED, AND SEEDED WITH MULCHED SEEDING, R.

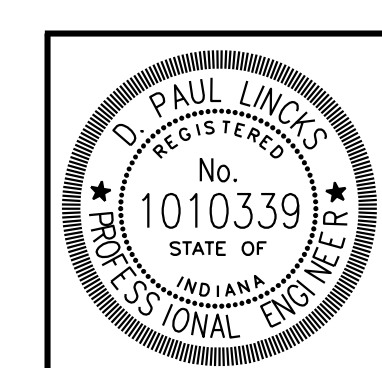
- (P) PAVED DITCH, TYPE E MOD.
- (S) CONCRETE, CURB
- (C) PCCB FOR APPROACHES, 6 IN. ON DENSE GRADE SUBBASE ON SUBGRADE TREATMENT, TYPE II
- (D1) 6" PIPE TYPE 5
- (D2) 8" PIPE TYPE 5
- (F) CONCRETE, SIDEWALK, 4 IN.
- (F1) CONCRETE PAD FOR GAS & DIESEL TANKS
- (40) LINE, PAINT, SOLID, WHITE, 4 IN.
- (41) LINE, PAINT, SOLID, BLUE, 4 IN.
- (K) FULL DEPTH HMA PAVEMENT
165 #/SYD HMA SURFACE TYPE B ON 275 #/SYD HMA INTERMEDIATE TYPE B ON 6" COMPACTED AGGREGATE NO. 53 ON GEOGRID TYPE 1B
- (Handicap Symbol) PAVEMENT MESSAGE MARKING, PAINT, HANDICAP SYMBOL



2 TON OF REVETMENT RIPRAP & 3 SYS OF GEOTEXTILES FOR RIPRAP TYPE 1B

OUTLET INV. = 634.50

- 1 100 LF OF 8" PIPE TYPE 5
SLOPE= 1.00%
UPSTREAM INV. = 635.50
DOWNSTREAM INV. = 634.50
1 CLEANOUT IN MIDDLE OF 100' PIPE RUN
- 15 103 LF OF 6" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.03
DOWNSTREAM INV. = 635.50
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 8" PIPE
- 14 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 635.56
DOWNSTREAM INV. = 635.52
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 13 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 635.77
DOWNSTREAM INV. = 635.73
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 10 8 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 636.07
DOWNSTREAM INV. = 636.03
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 12 2 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 635.80
DOWNSTREAM INV. = 635.79
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE
- 11 10 LF OF 4" PIPE TYPE 5
SLOPE= 0.50%
UPSTREAM INV. = 635.93
DOWNSTREAM INV. = 635.88
1 CLEANOUT AT DOWNSTREAM CONNECTION TO 6" PIPE

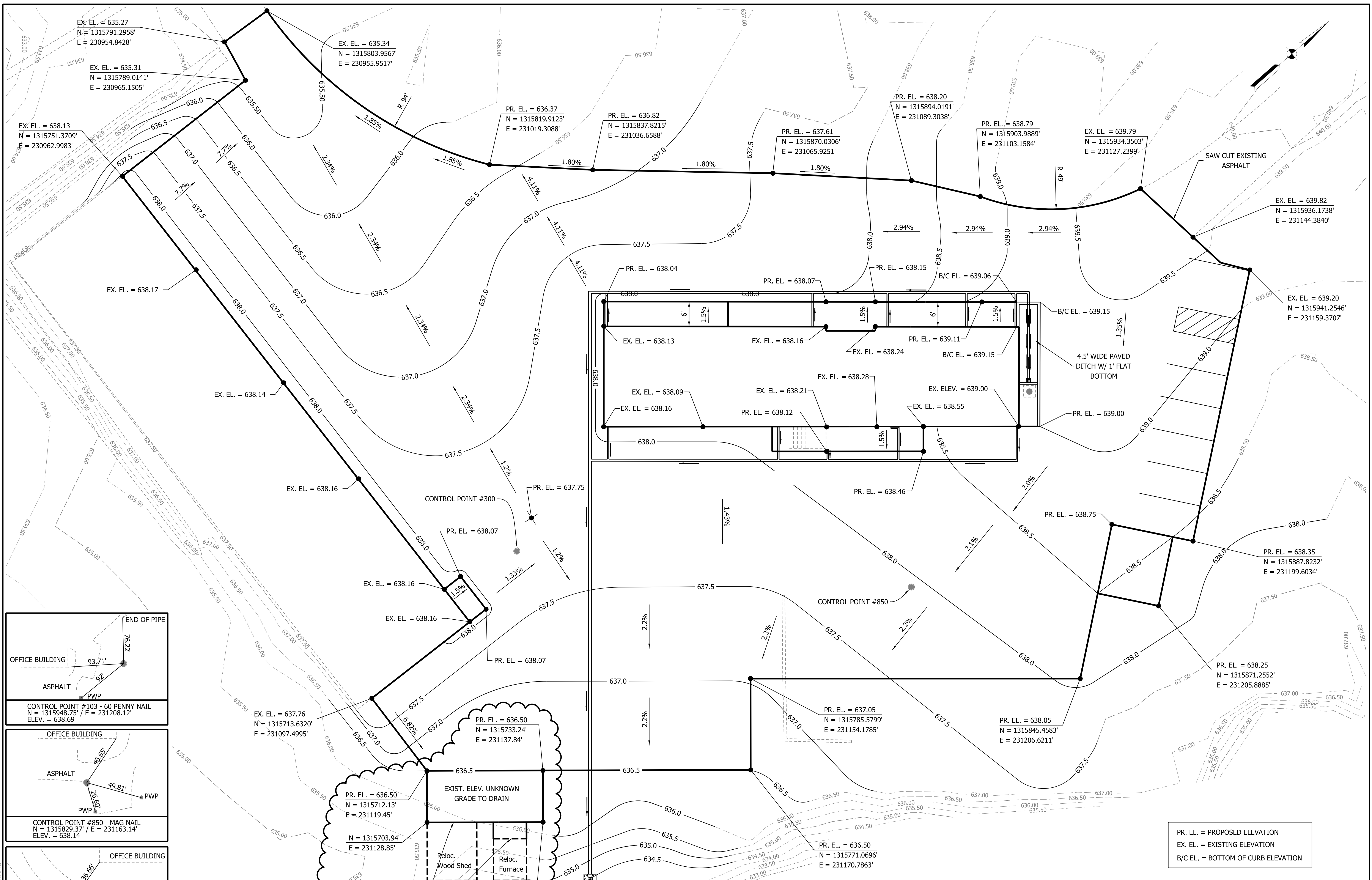


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DESIGNED:	KAM	DRAWN:	KAM	
CHECKED:	DPL	CHECKED:	DPL	

INDIANA DEPARTMENT OF NATURAL RESOURCES
PROPOSED SITE PLAN
JACKSON - WASH. OFFICE SITE

HORIZONTAL SCALE	1" = 10'	BRIDGE FILE	
VERTICAL SCALE	N/A	DESIGNATION	
SURVEY BOOK		SHEETS	5 of 9
CONTRACT		PROJECT	
		ENG #	2409635013

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END OF PIPE
76.22'

OFFICE BUILDING
93.71'

ASPHALT
PWP

CONTROL POINT #103 - 60 PENNY NAIL
N = 1315948.75' / E = 231208.12'
ELEV. = 638.69

OFFICE BUILDING
46.65'

ASPHALT
49.81'

PWP

CONTROL POINT #850 - MAG NAIL
N = 1315829.37' / E = 231163.14'
ELEV. = 638.14

OFFICE BUILDING
36.66'

ASPHALT
73.22'

GARAGE
20.52'

PROpane TANK

CONTROL POINT #300 - MAG NAIL
N = 1315763.39' / E = 231093.84'
ELEV. 637.05

ALL DISTURBED AREAS
OUTSIDE OF PAVEMENT TO
BE GRADED, TOP SOIL
APPLIED, AND SEEDED WITH
MULCHED SEEDING, R.

EXIST. ELEV. UNKNOWN
GRADE TO DRAIN

Reloc.
Wood Shed

Reloc.
Furnace

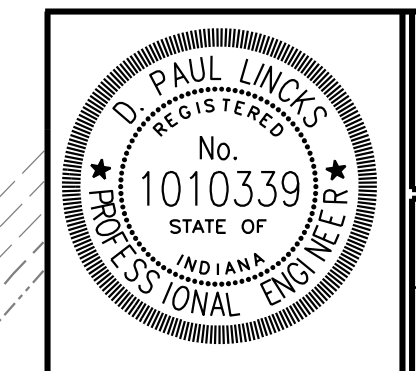
MATCH EXIST. CONC.
PAD ELEVATION

PR. EL. = 636.50
N = 1315712.13'
E = 231119.45'

N = 1315703.94'
E = 231128.85'

N = 1315725.04'
E = 231147.24'

PR. EL. = PROPOSED ELEVATION
EX. EL. = EXISTING ELEVATION
B/C EL. = BOTTOM OF CURB ELEVATION



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DESIGN ENGINEER
DATE 9-6-23

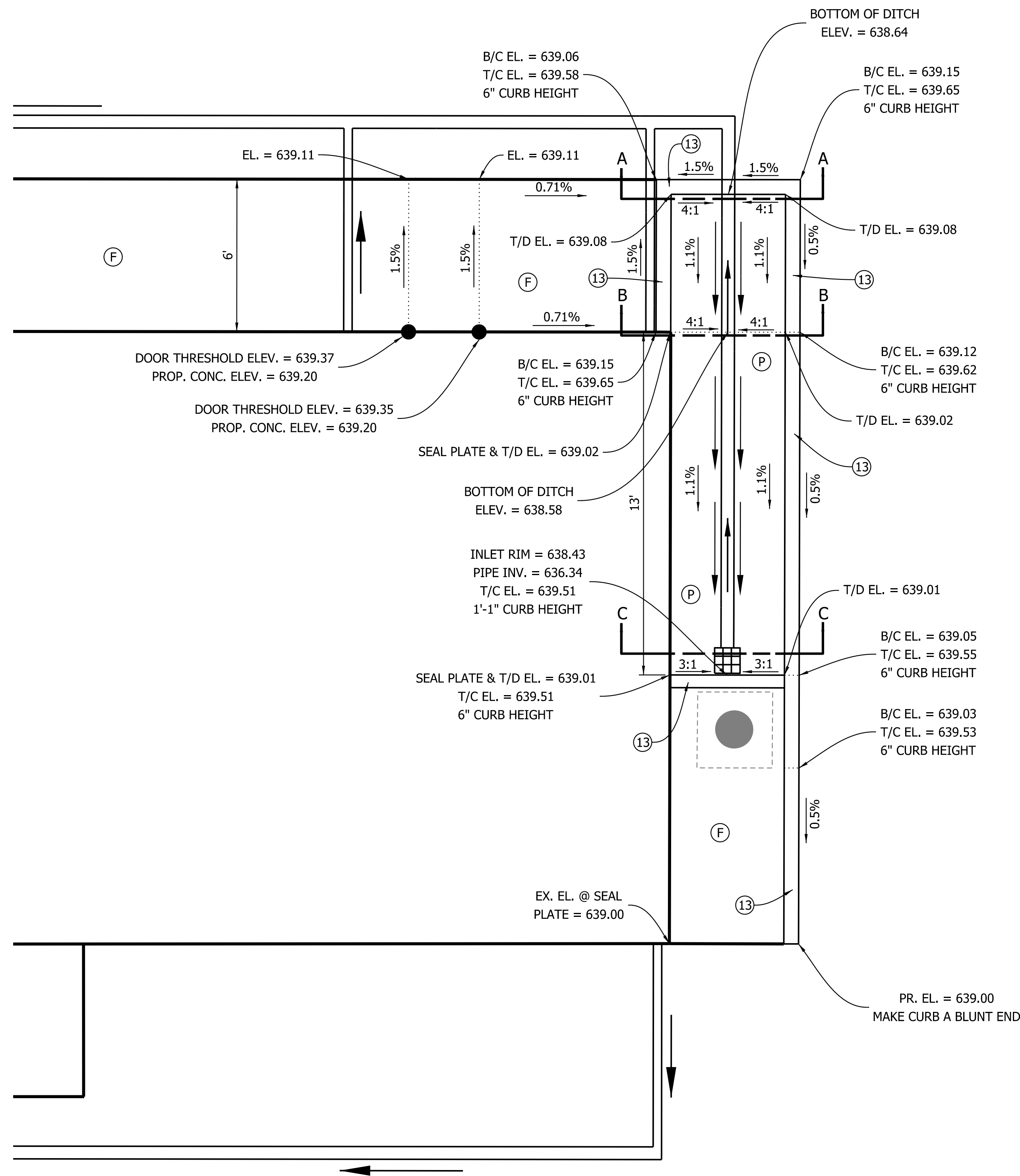
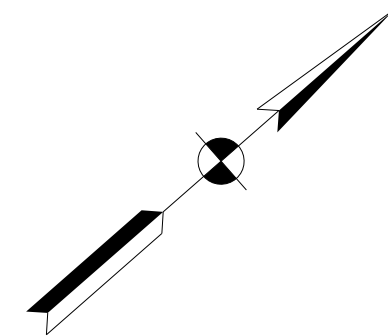
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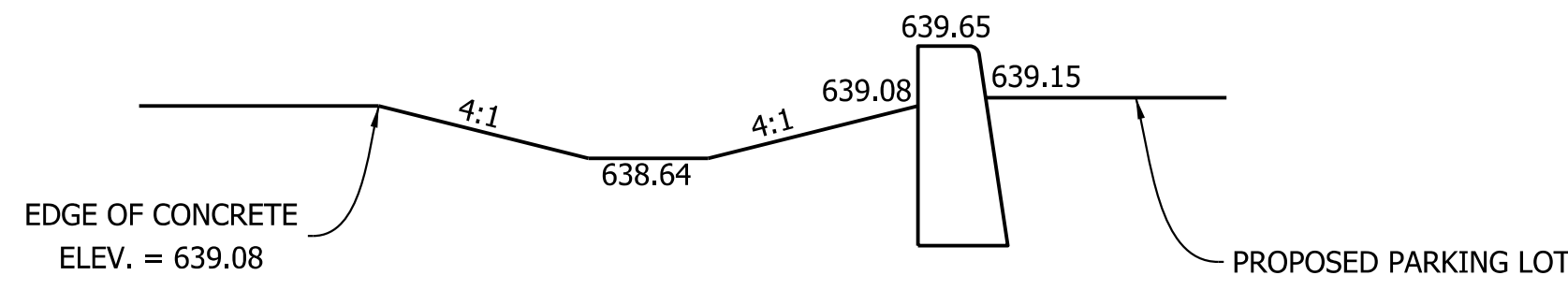
PROPOSED SITE GRADING
JACKSON - WASH. OFFICE SITE

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	6 of 9
	PROJECT
	ENG # 2409635013

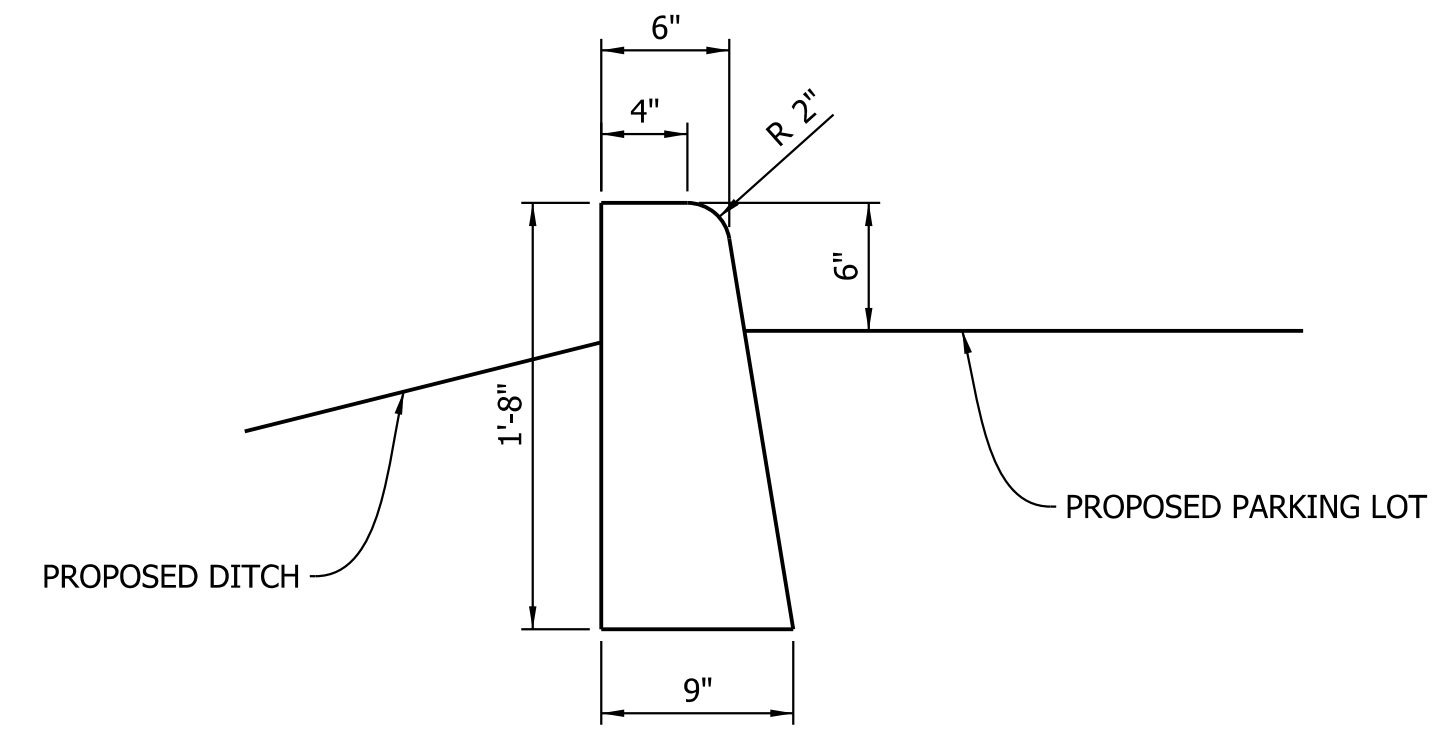
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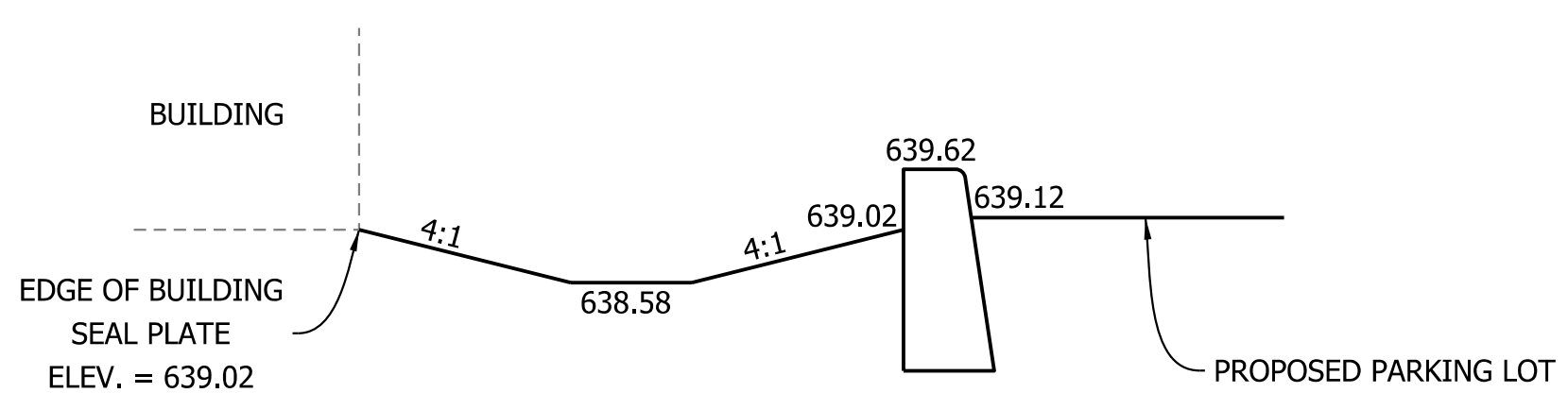
Plan View
Scale: 1" = 3'



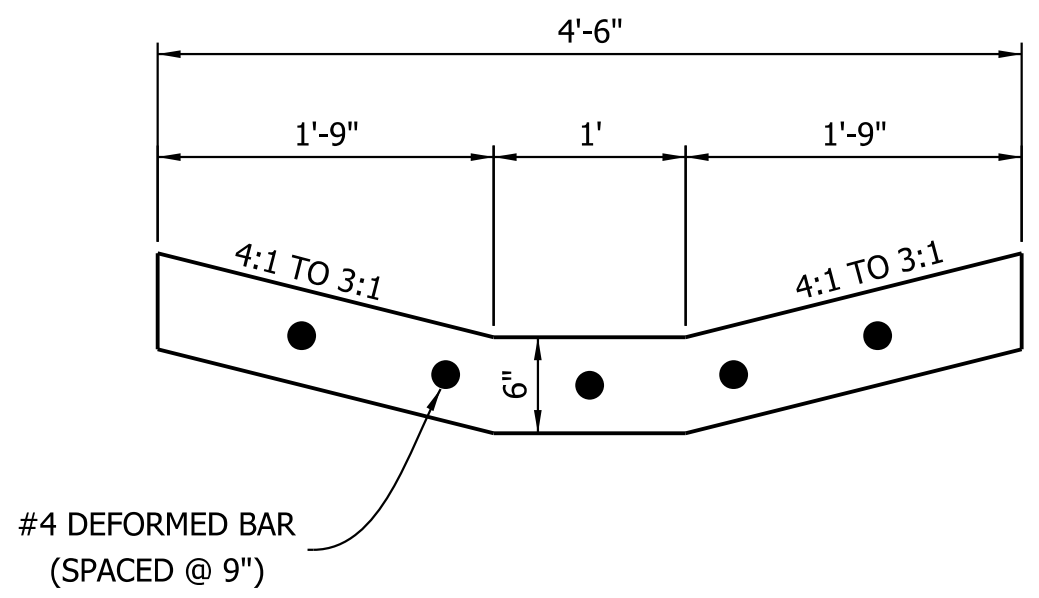
Section A-A
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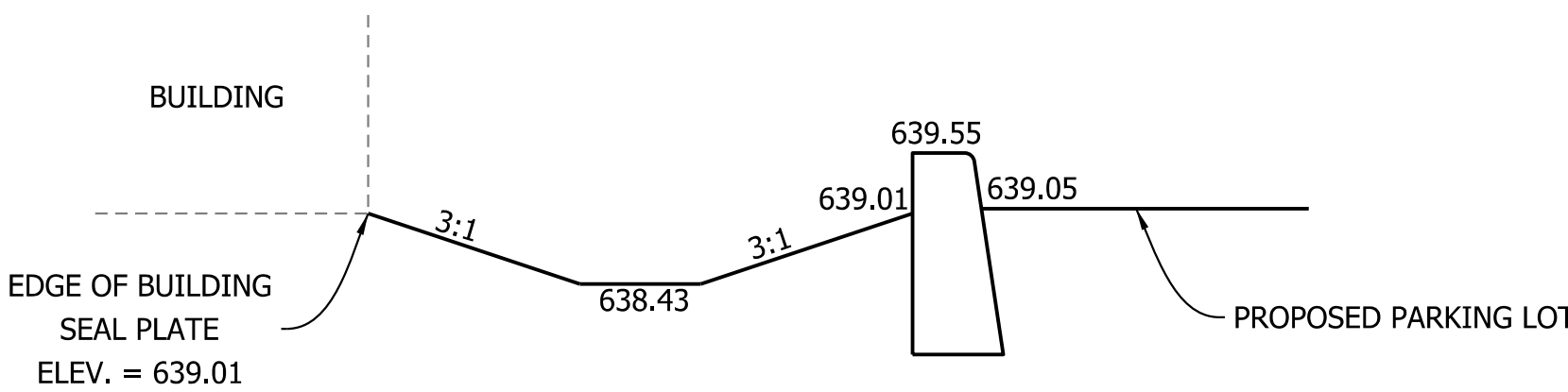
Concrete, Curb Detail
Not to Scale



Section B-B
Not to Scale



Paved Ditch
Detail - Type E Mod.
Not to Scale

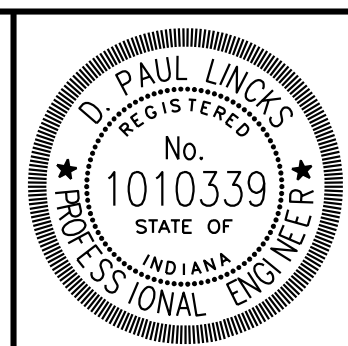


Section C-C
Not to Scale

- (F) SIDEWALK, CONCRETE, 4 IN.
- (13) CONCRETE, CURB
- (P) PAVED DITCH, TYPE E MOD.

PR. EL. = PROPOSED ELEVATION
EX. EL. = EXISTING ELEVATION
B/C EL. = BOTTOM OF CURB ELEVATION
T/C EL. = TOP OF CURB ELEVATION
T/D EL. = TOP OF DITCH ELEVATION

NOTE:
TOP OF DITCH SHALL BE BELOW SEAL PLATE.
CONTRACTOR SHALL MAKE ELEVATION ADJUSTMENTS
AS NECESSARY.



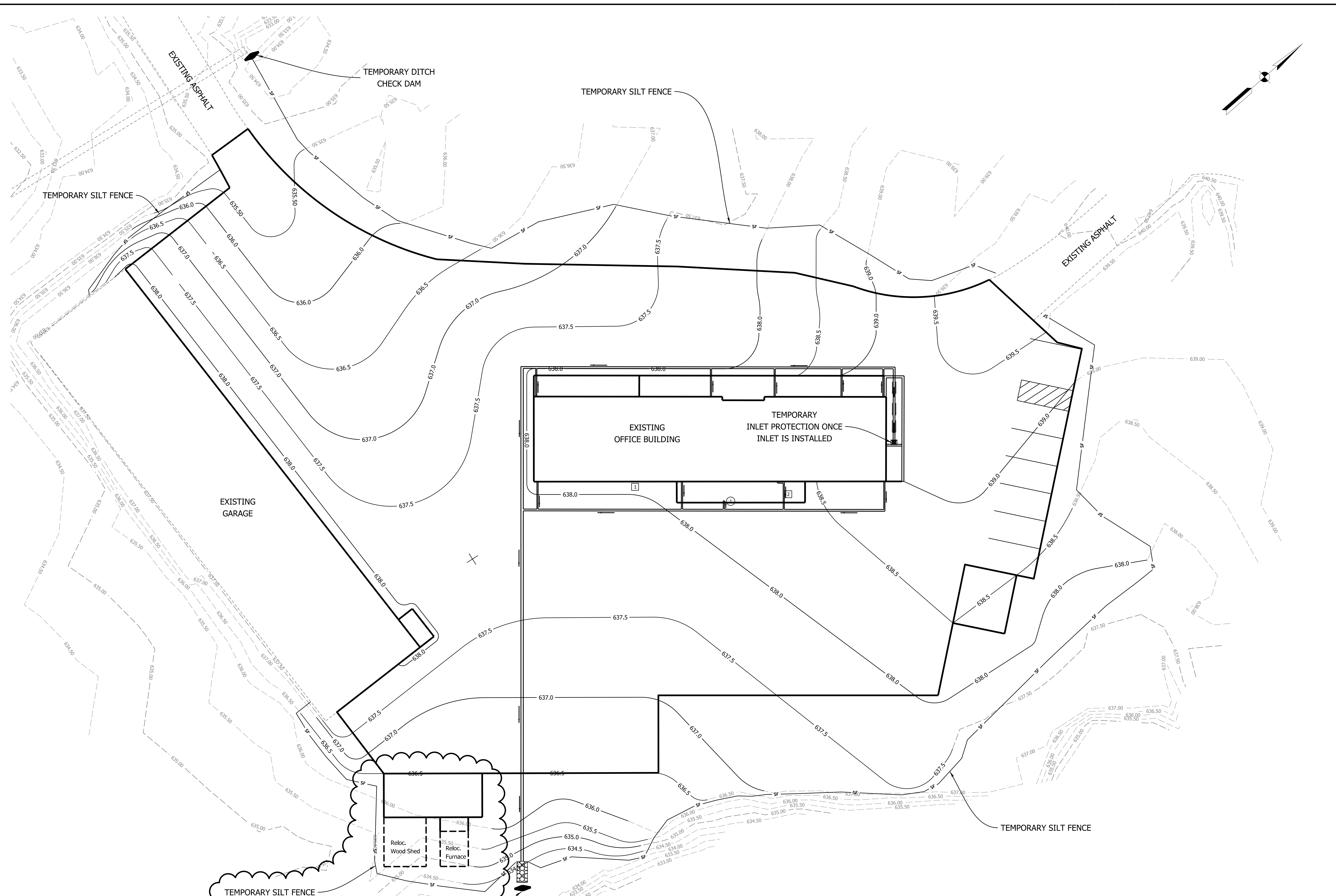
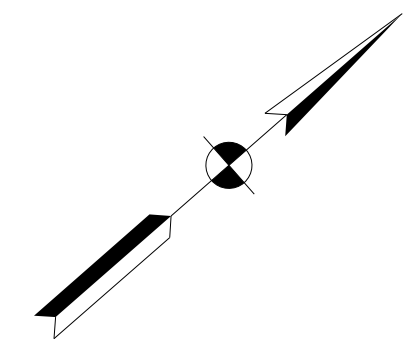
RECOMMENDED FOR APPROVAL	<i>D. Paul Linko</i>	DESIGN ENGINEER	DATE
DESIGNED:	KAM	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DPL

INDIANA DEPARTMENT
OF NATURAL RESOURCES

PAVED DITCH DETAILS

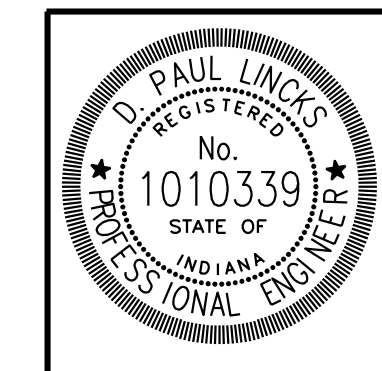
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	DESIGNATION
VERTICAL SCALE	
SURVEY BOOK	SHEETS
CONTRACT	7 of 9
	PROJECT
	ENG # 2409635013

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ALL DISTURBED AREAS OUTSIDE OF PAVEMENT TO BE GRADED, TOP SOIL APPLIED, AND SEEDED WITH MULCHED SEEDING, R.

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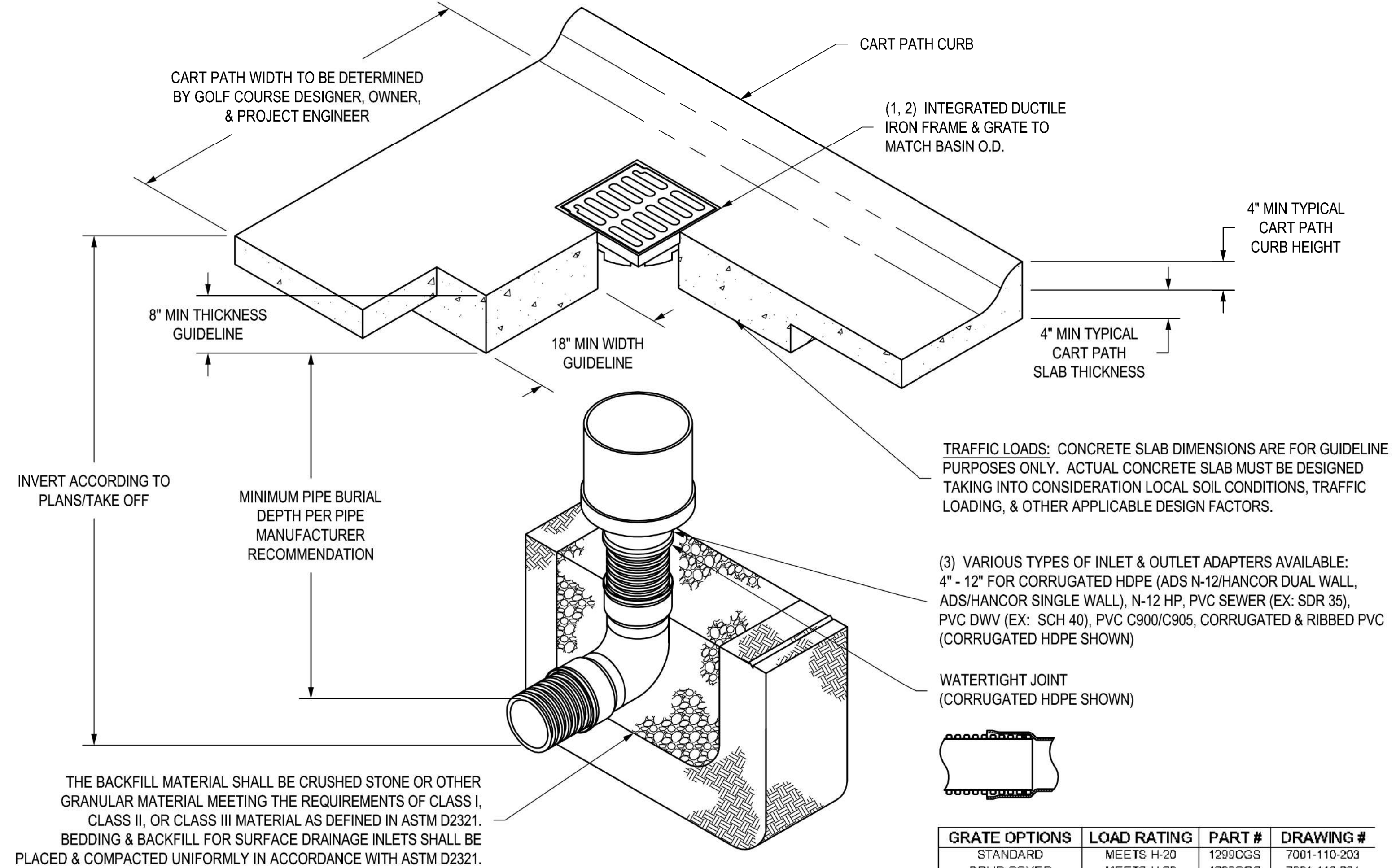
RECOMMENDED FOR APPROVAL	<i>D. Paul Links</i>	DESIGN ENGINEER	9-6-23	DATE
DESIGNED:	KAM	DRAWN:	KAM	
CHECKED:	DPL	CHECKED:	DPL	

INDIANA DEPARTMENT OF NATURAL RESOURCES

EROSION CONTROL PLAN
JACKSON - WASH OFFICE SITE

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	DESIGNATION
VERTICAL SCALE	N/A
SURVEY BOOK	SHEETS
CONTRACT	8 of 9
	PROJECT
	ENG # 2409635013

NYLOPLAST 12" INLINE DRAIN: 2712AG __ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204

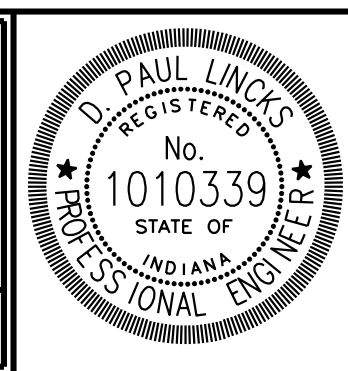
- STANDARD GRATE/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.

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DRAWN BY	EBC	MATERIAL		3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	07-31-07			
REVISED BY	NMH	PROJECT NO./NAME	TITLE 12 IN INLINE DRAIN GOLF COURSE CART PATH INSTALLATION DETAIL	
DATE	03-16-16			
DWG SIZE	A	SCALE 1:20 SHEET 1 OF 1	DWG NO.	7003-110-039 REV D

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RECOMMENDED FOR APPROVAL	<i>D. Paul Links</i>	9-6-23
DESIGNED:	KAM	DRAWN:
CHECKED:	DPL	CHECKED:

INDIANA DEPARTMENT OF NATURAL RESOURCES

NYLOPLAST DRAIN SYSTEM DETAIL

HORIZONTAL SCALE	BRIDGE FILE
N/A	DESIGNATION
VERTICAL SCALE	N/A
SURVEY BOOK	SHEETS
CONTRACT	9 of 9
PROJECT	PROJECT
ENG #	2409635013