

# INDIANA DEPARTMENT OF ADMINISTRATION PUBLIC WORKS DIVISION

## PUBLIC WORKS PROJECT NO. ENG2403768020 DNR - STARVE HOLLOW ADA IMPROVEMENTS



### UTILITY COMPANY INFORMATION

NO UTILITIES LOCATED

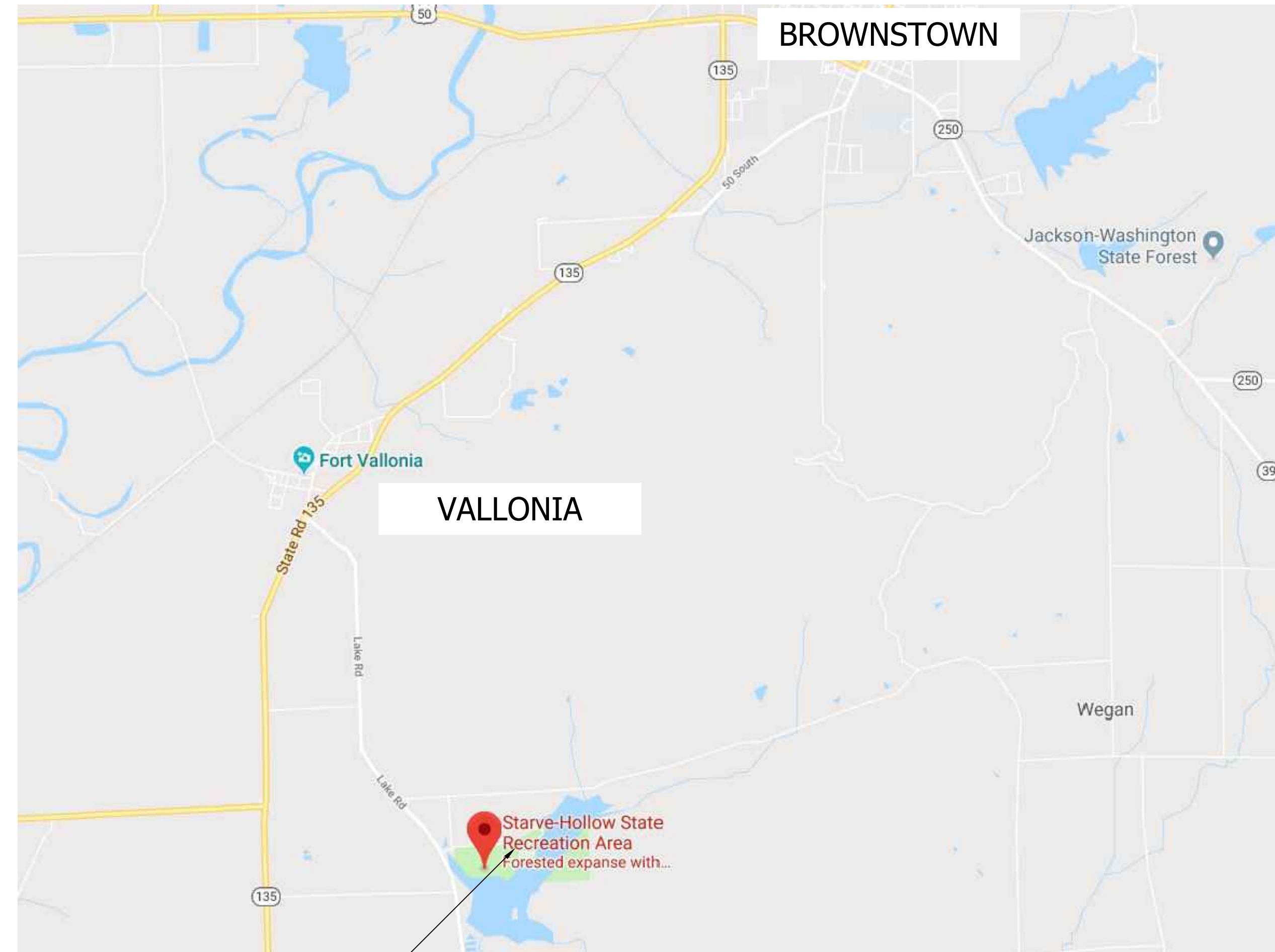
### UTILITY NOTES

NOTE 1: All utilities depicted are at "Quality Level B" and "Quality Level C".

NOTE 2: "Quality Level B" utility locates are based on markings provided by others. There is no guarantee as to the accuracy or completeness of these markings. Existing utility depths shown on profiles and cross sections are shown for reference purposes only and are based on what may be considered standard bury depths. The exact depth of existing utilities is uncertain and should be field verified by the contractor as needed.

NOTE 3: "Quality Level C" utility locates are based on visible surface features which have been surveyed such as hydrants, valve boxes, meter boxes or other items related to a utility.

NOTE 4: Utility quality level designations are based on ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data).



Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	OVERALL PLAN
3	SITE 1
4	SITE 2
5	SITE 3
6	SITE 4
7	SITE 5
8	SITE 6
9	DETAILS

### PROJECT LOCATION

This project is located on S County Road 275 W (Lake Rd) approximately 2.1 mi South of the intersection of Lake Rd and SR 135, in Jackson County, Indiana  
N 38°49'4.57"  
W 86°4'32.53"

### PLANS PREPARED BY:

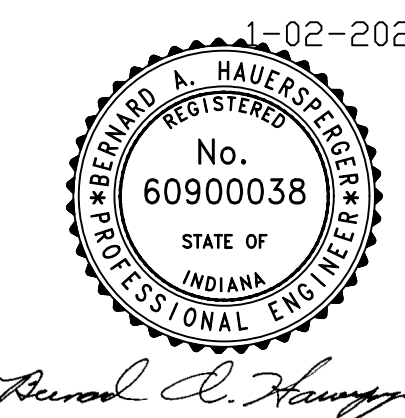


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North Vernon, IN 47265

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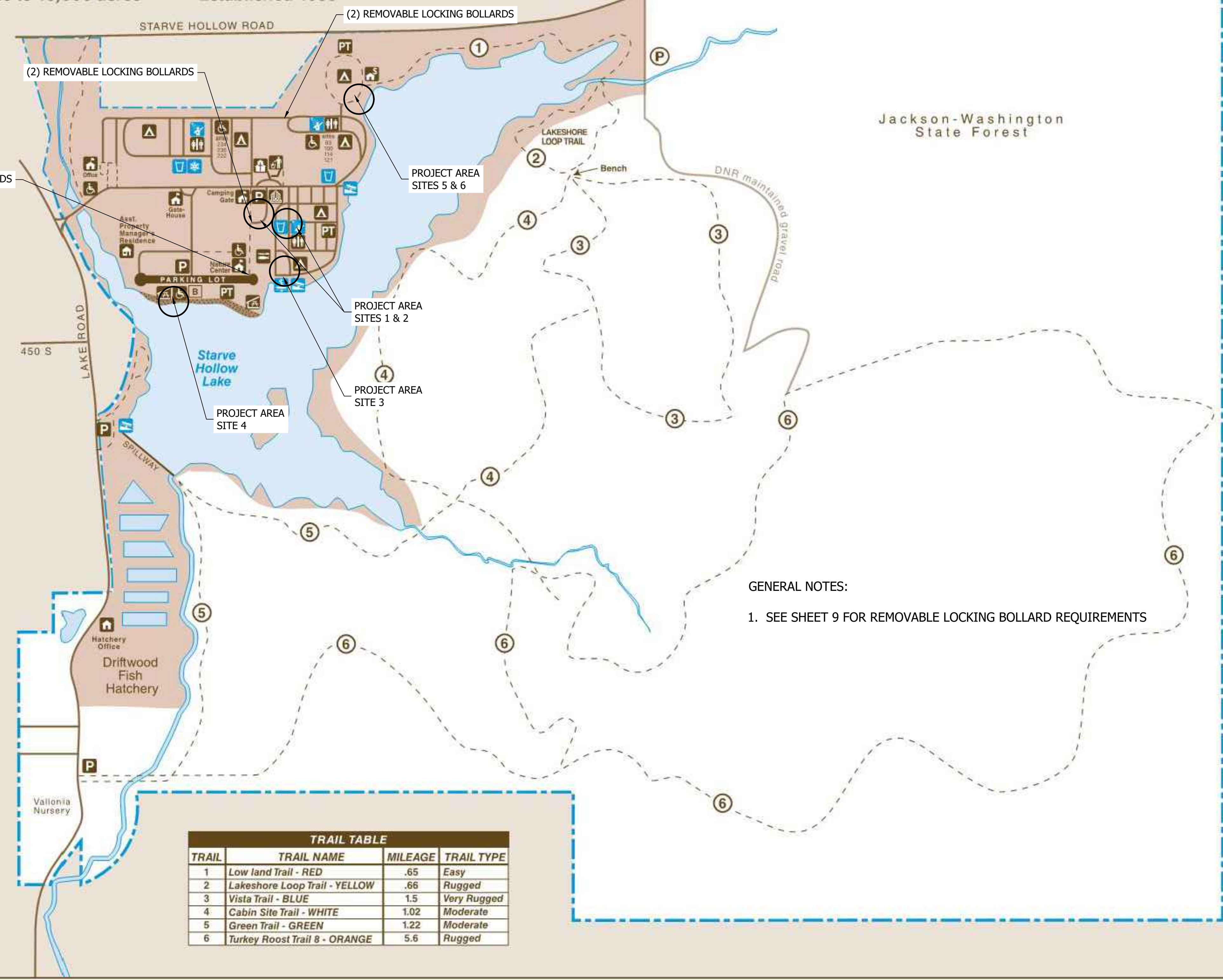
*Barbara A. Hauer*

PREPARED FOR: INDIANA DEPARTMENT OF NATURAL RESOURCES  
PROJECT DESCRIPTION: DNR STARVE HOLLOW ADA IMPROVEMENTS  
FILE NUMBER: 23-12862  
DATE: JANUARY 2, 2024  
DESIGN PHASE: FINAL PLANS  
PAPER SIZE: PLOT SHEETS TO SCALE ON ANSI D 22" X 34"



# STARVE HOLLOW STATE RECREATION AREA

4345 S. 275 W., P.O. Box 207 • Vallonia, IN 47281 • (812) 358-3464  
285 acres with access to 18,000 acres Established 1938



**LEGEND**

- Road
- Hiking Trail
- Boundary
- Water
- Forest Area
- Comfort Station
- Accessible
- Campground
- Boat Launch
- Boat Rental
- Beach
- Safety Zone
- Pit Toilet
- Church
- Parking
- Firewood Pen
- Beach House
- Litter Receptacle
- Picnic Shelter
- Water Hydrant
- Rent A Camp Cabin
- Fish Cleaning
- Winter Hydrant

**TRAIL TABLE**

TRAIL	TRAIL NAME	MILEAGE	TRAIL TYPE
1	Low land Trail - RED	.65	Easy
2	Lakeshore Loop Trail - YELLOW	.66	Rugged
3	Vista Trail - BLUE	1.5	Very Rugged
4	Cabin Site Trail - WHITE	1.02	Moderate
5	Green Trail - GREEN	1.22	Moderate
6	Turkey Roost Trail 8 - ORANGE	5.6	Rugged

GENERAL NOTES:  
1. SEE SHEET 9 FOR REMOVABLE LOCKING BOLLARD REQUIREMENTS

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**NOTES:**  
1. This sheet is to be: ANSI D 22" X 34"

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SCALE: AS SHOWN  
DRAWN BY: AMB/ARC  
CHECKED BY: BAH  
DATE: JANUARY 2, 2024

Revision	Drawn By	Date

FILE NO: 23-12862  
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES

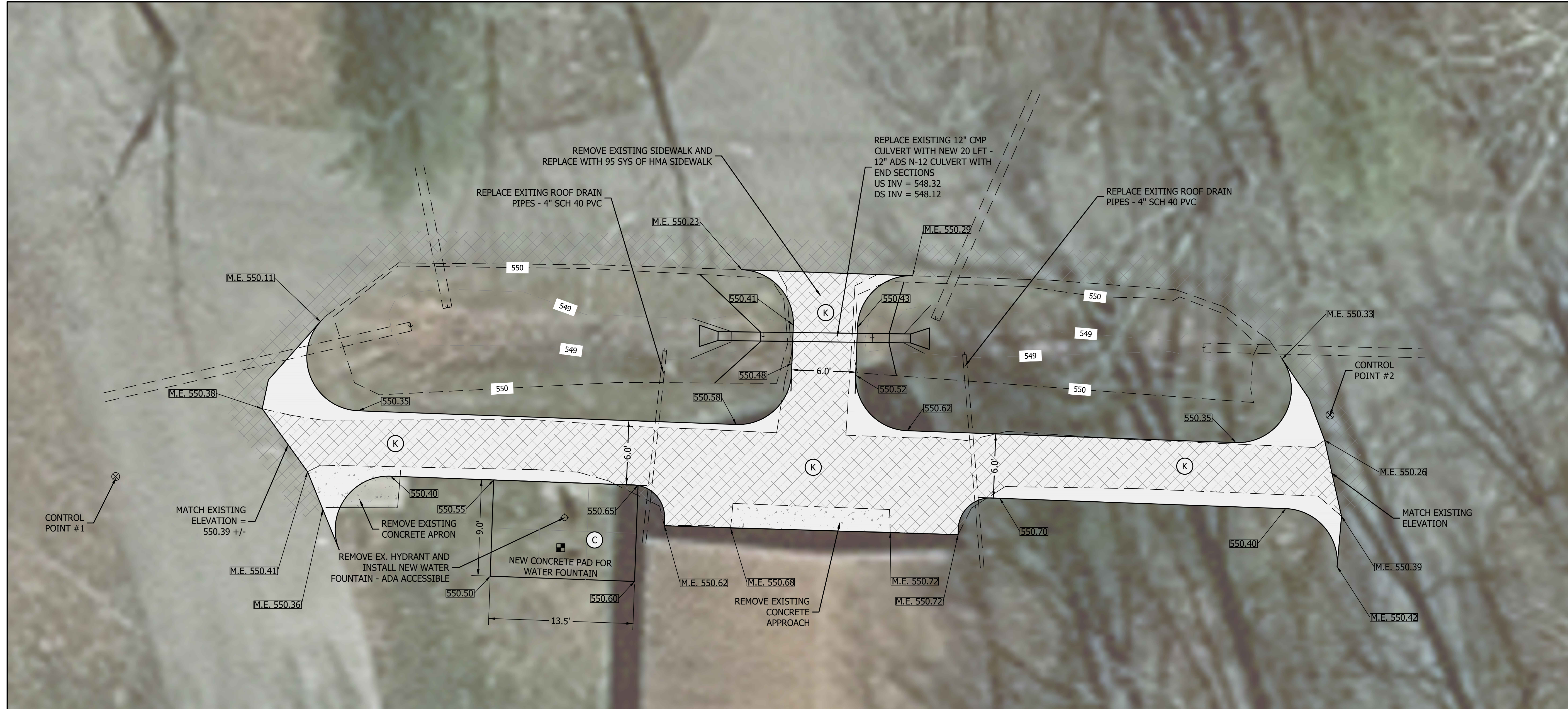
PROJECT DESCRIPTION: DNR STARVE HOLLOW ADA IMPROVEMENTS

SHEET TITLE: OVERALL PLAN

DESIGN PHASE: FINAL PLANS

SHEET NUMBER:  
**2**





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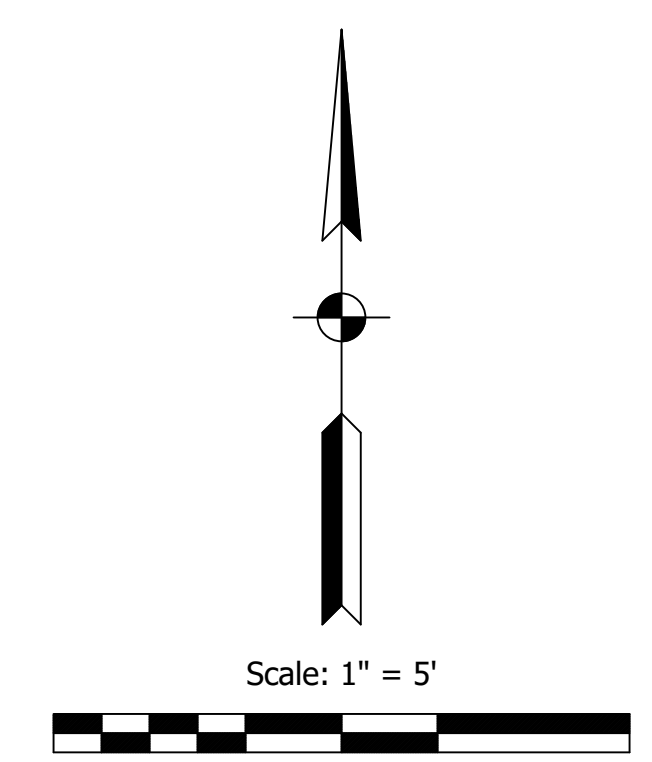
1-02-2024  
  
 Harold A. Hailer

CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #1	Mag Nail Flush With Road	1299696.06	211170.31	550.31
C.P. #2	Mag Nail Flush With Road	1299701.81	211283.80	550.34

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
 VERTICAL DATUM = NAVD 88  
 TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED ON MAY 26, 2022.

- GENERAL NOTES:**
- PROPOSED WATER FOUNTAIN SHALL BE ADA COMPLIANT, FREEZE/FROST RESISTANT, GREEN, W/ (2) STATIONS (ONE OF WHICH SHALL BE A WATER BOTTLE FILL STATION). CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE INSTALLATION
  - SEE DETAIL SHEET 9 FOR EROSION CONTROL BLANKET, INLET PROTECTION, AND SEEDING REQUIREMENTS.
  - SEE DETAIL SHEET 9 FOR TYPICAL SECTIONS.
  - ROLL OFF DUMPSTER OR OTHER WATER-TIGHT 3CYD OR LARGER ENCLOSURE LINED WITH 10MIL PLASTIC TO BE USED AS CONCRETE WASHOUT. SIGNAGE REQUIRED FOR ALL WASHOUTS.
  - CONTRACTOR SHALL ENSURE ADA COMPLIANCE THROUGHOUT PROJECT LIMITS.
  - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.

- (K) PROPOSED ASPHALT WALKWAY  
 - ADA COMPLIANT  
 (99 SYS)
- (C) PROPOSED CONCRETE HYDRANT PAD  
 - ADA COMPLIANT  
 (14 SYS)



**EX. FEATURES LEGEND**

- |                  |  |              |  |
|------------------|--|--------------|--|
| EX. ASPHALT      |  | SANITARY MH  |  |
| UNDERGRND. TELE. |  | BENCHMARK    |  |
| SANITARY SEWER   |  | TRAVERSE     |  |
| FLOWLINE         |  | MAG NAIL SET |  |
| STORM PIPE       |  | FIRE HYDRANT |  |
| GUARDRAIL        |  | WATER METER  |  |

SCALE: AS SHOWN  
 DRAWN BY: AMB/ARC  
 CHECKED BY: BAH  
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Revision	Drawn By	Date

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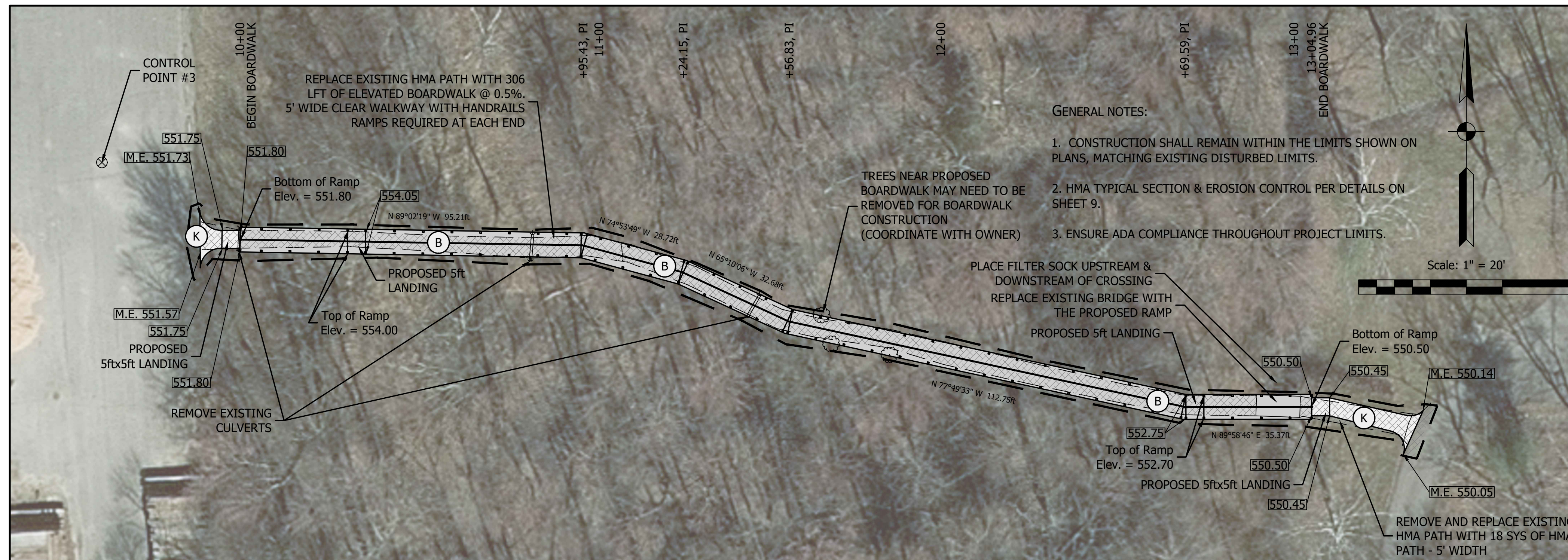
PROJECT DESCRIPTION:  
 DNR STARVE HOLLOW ADA  
 IMPROVEMENTS

SHEET TITLE:  
 SITE 1

DESIGN PHASE:  
 FINAL PLANS

SHEET NUMBER:  
**3**





CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #1	Mag Nail Flush With Road	1299696.06	211170.31	550.31
C.P. #3	Mag Nail Flush With Road	1299701.81	211283.80	550.34

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
 VERTICAL DATUM = NAVD 88  
 TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED ON MAY 26, 2022.

**CENTERLINE POINT SUMMARY - LINE 'A'**

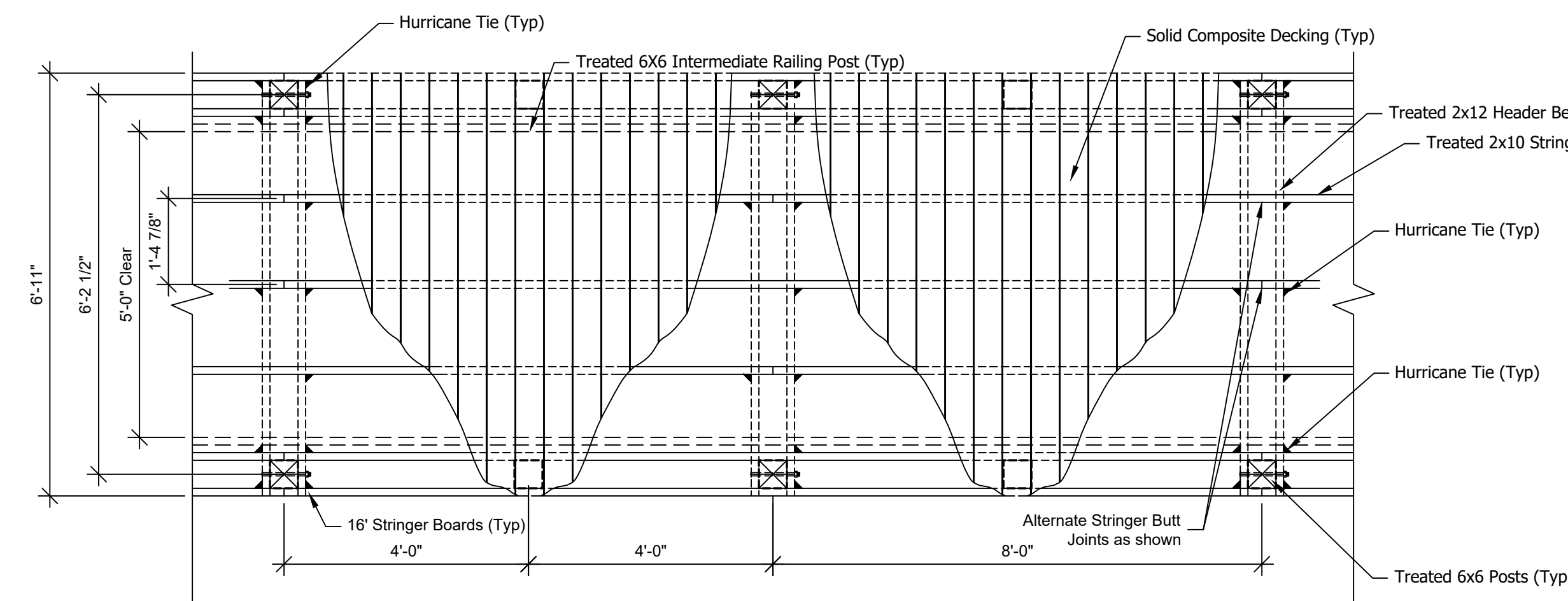
ID	Station	Northing	Easting
	10+00.000	1299770.610	210773.526
PI	10+95.432	1299769.008	210868.944
PI	11+24.155	1299761.524	210896.675
PI	11+56.833	1299747.801	210926.332
PI	12+69.586	1299724.024	211036.549
	13+04.955	1299724.036	211071.918

**EX. FEATURES LEGEND**

- EX. ASPHALT
  - UNDERGRND. TELE.
  - SANITARY SEWER
  - FLOWLINE
  - STORM PIPE
  - GUARDRAIL
  - SANITARY MH
  - UT
  - SAN
  - >
  - □ —
  - BENCHMARK
  - TRAVERSE
  - MAG NAIL SET
- (K) PROPOSED ASPHALT WALKWAY - ADA COMPLIANT (27 SYS)  
 (B) PROPOSED BOARDWALK - ADA COMPLIANT

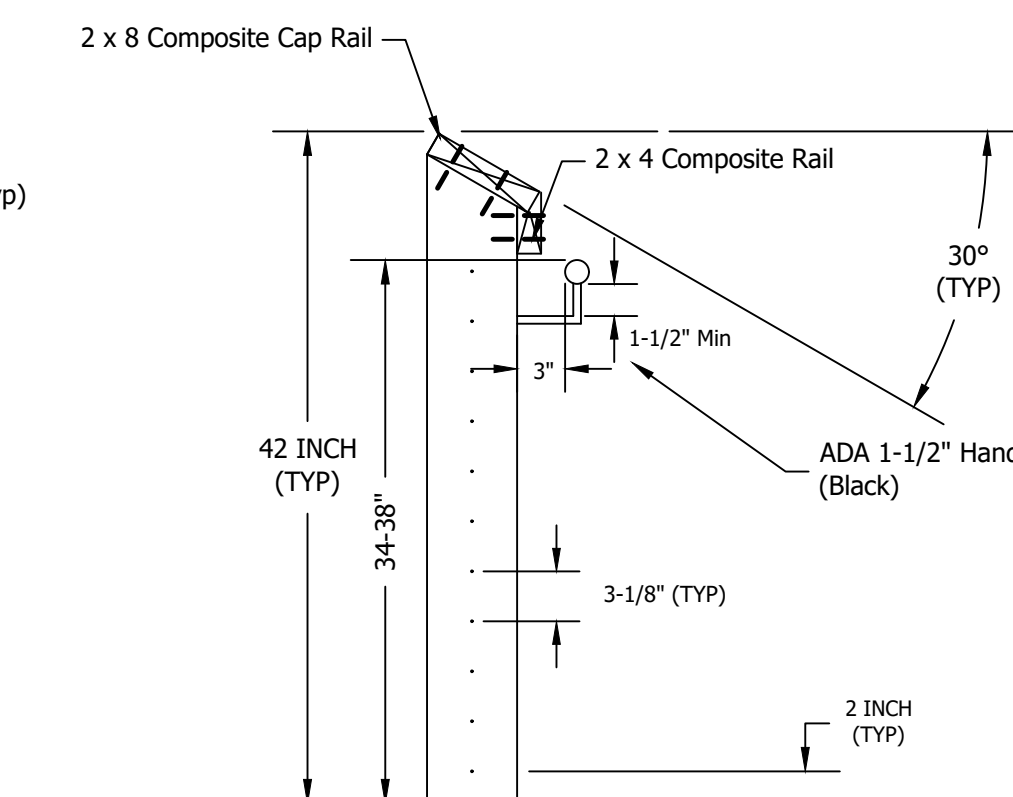
**BOARDWALK SITE PLAN LINE 'A'**

Scale: 1" = 20'



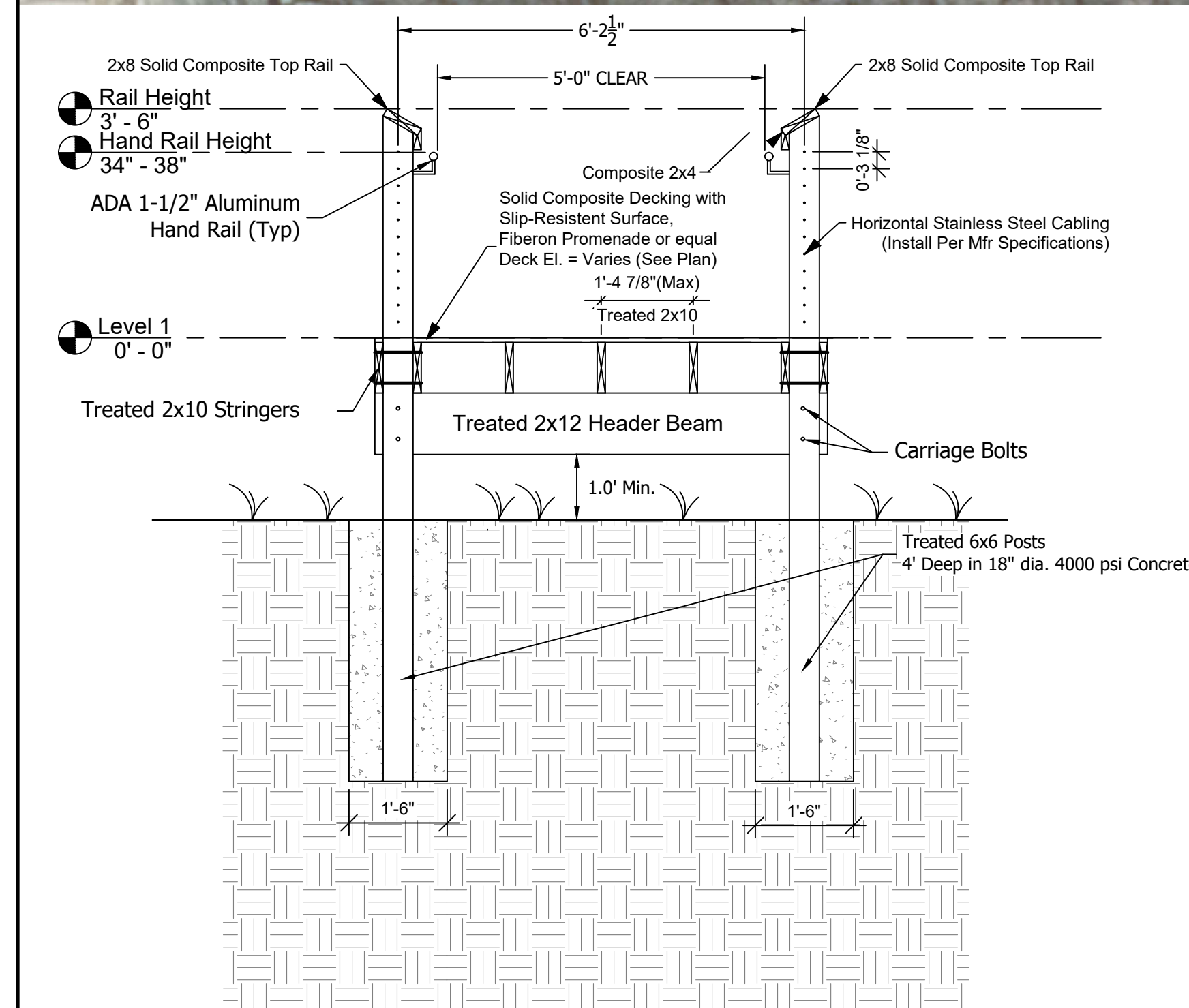
**TYPICAL BOARDWALK PLAN**

Scale: 1/2" = 1'



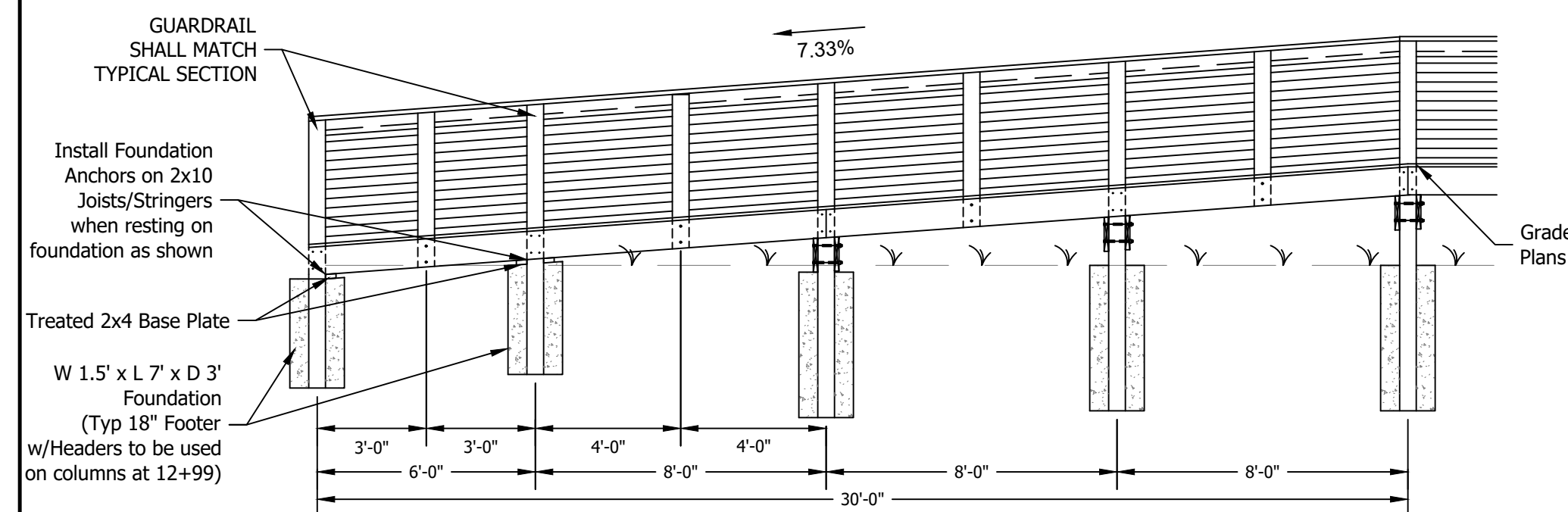
**TYPICAL ADA GUARDRAIL DETAIL**

Scale: 1" = 1'



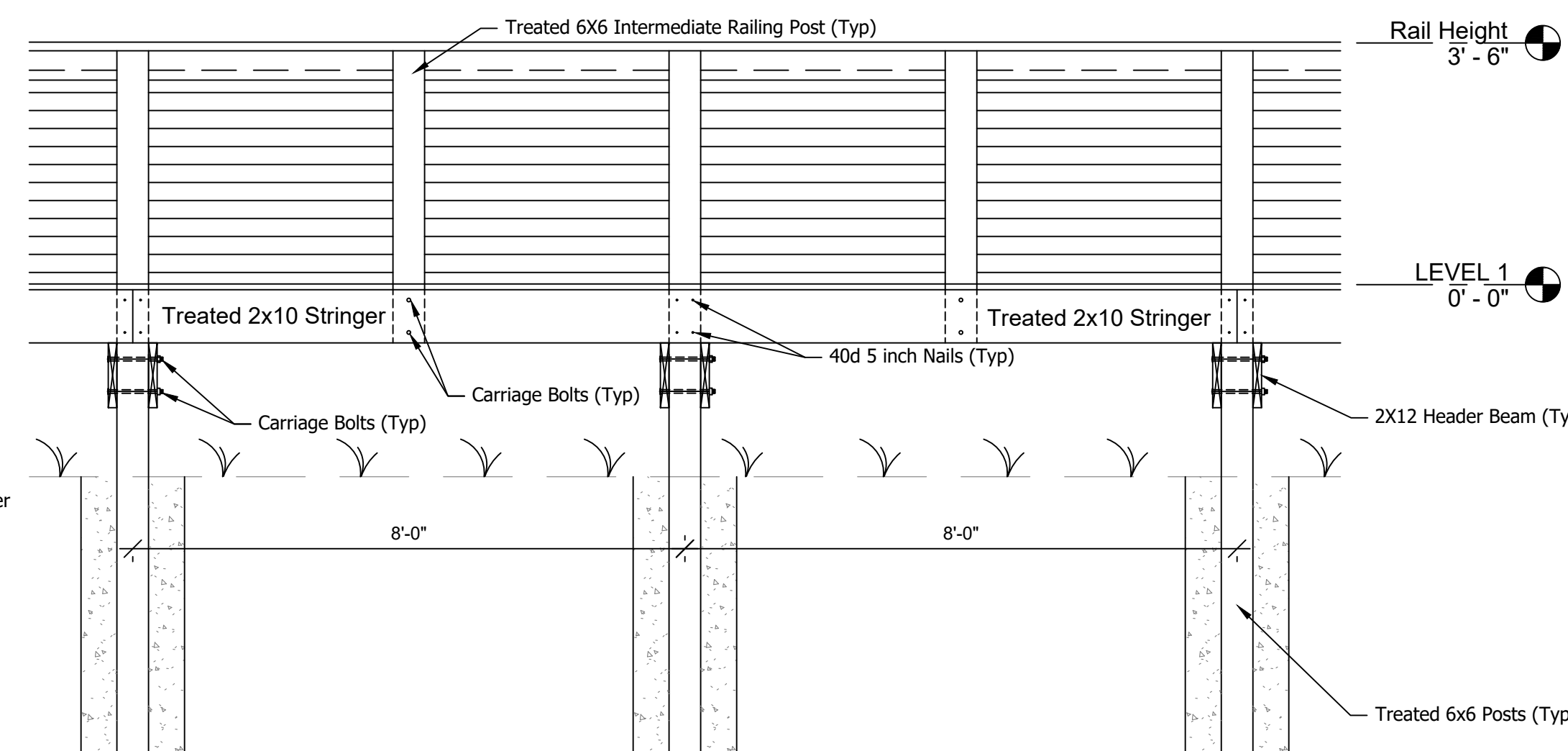
**TYPICAL BOARDWALK SECTION**

Scale: 1/2" = 1'



**TYPICAL BOARDWALK RAMP PROFILE**

Scale: 1/4" = 1'



**TYPICAL BOARDWALK PROFILE**

Scale: 1/2" = 1'

**GENERAL NOTES:**

- ALL TREATED MATERIAL TYPE SHALL BE DOUGLAS FIR OR SOUTHERN PINE NO. 2 OR BETTER AS SPECIFIED IN THE ABOVE TABLE.
- ALL FASTENERS SHALL BE GALVANIZED, UNLESS SPECIFIED BY MANUFACTURER BELOW.
- FASTENERS:
  - DECKING: DECK SCREWS AS SPECIFIED BY THE MANUFACTURER
  - RAILING:
    - SCREWS AS SPECIFIED BY THE MANUFACTURER FOR COMPOSITE MATERIAL.
    - 6x6 INTERMEDIATE POSTS SHALL HAVE 1/2" GALVANIZED CARRIAGE BOLTS W/ WASHER AND NUT
    - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR HORIZONTAL STEEL CABLING, INSTALL PER MANUFACTURER'S INSTRUCTIONS
  - STRINGERS/JOISTS & HEADER BEAMS:
    - 40d 5 INCH LONG RING SHANK
    - GALVANIZED HURRICANE TIES W/ 10d 1 1/2" GALVANIZED NAILS
    - GALVANIZED TIE PLATE AT BUTT JOINTS W/ 10d 1-1/2" GALVANIZED NAILS
    - 1/2" GALVANIZED CARRIAGE BOLTS W/ WASHER AND NUT
- WHERE BOARDWALK DEFLECTIONS OCCUR, INSIDE AND OUTSIDE DIMENSIONS SHALL VARY. CONTRACTOR SHALL ADJUST AS NEEDED TO CORRECT FOR DEFLECTIONS. MAX SPAN SHALL BE 8FT.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FOUNDATIONS, ADA HAND RAIL, AND WHERE NOTED.

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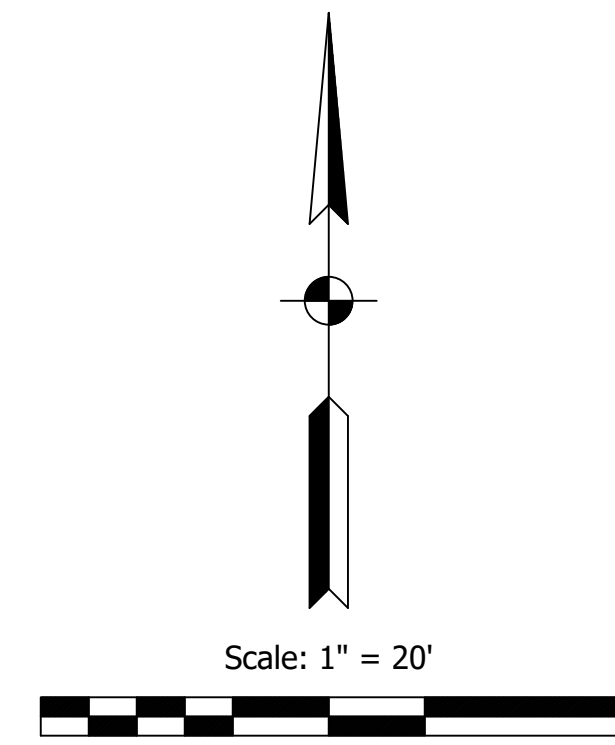
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DRAWN BY:	AMB/ARC	
CHECKED BY:	BAH	
DATE:	JANUARY 2, 2024	
Revision	Drawn By	Date
FILE NO:	23-12862	
CLIENT NAME:	INDIANA DEPARTMENT OF NATURAL RESOURCES	
PROJECT DESCRIPTION:	DNR STARVE HOLLOW ADA IMPROVEMENTS	
SHEET TITLE:	SITE 2	
DESIGN PHASE:	FINAL PLANS	
SHEET NUMBER:	<b>4</b>	





**EX. FEATURES LEGEND**

- EX. ASPHALT
- EX. GRAVEL
- UNDERGRND. TELE.
- SANITARY SEWER
- FLOWLINE
- STORM PIPE
- GUARDRAIL
- SANITARY MH
- BENCHMARK
- TRAVERSE
- MAG NAIL SET
- (K)** PROPOSED ASPHALT WALKWAY - ADA COMPLIANT (322 SYS)

CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #4	Mag Nail Flush With Road	1299248.59	210653.37	550.89
C.P. #8	6" Mag Spike	1299146.66	210982.67	548.51

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
 VERTICAL DATUM = NAVD 88  
 TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED ON MAY 26, 2022.

**GENERAL NOTES:**

- CONSTRUCTION SHALL REMAIN WITHIN THE LIMITS MATCHING EXISTING DISTURBED LIMITS.
- TYPICAL SECTION PER DETAIL ON SHEET 9.
- SEE DETAIL SHEET 9 FOR EROSION CONTROL REQUIREMENTS (AS NEEDED) AND SEEDING REQUIREMENTS FOR DISTURBED AREAS.
- CONTRACTOR SHALL ENSURE ADA COMPLIANCE THROUGHOUT PROJECT LIMITS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- CONTRACTOR SHALL COORDINATE WITH ENGINEER AND DNR ON THE REMOVAL OF CYPRUS ROOTS THROUGHOUT THE PROPOSED ADA PATHWAY BEFORE SAID ROOTS ARE REMOVED.

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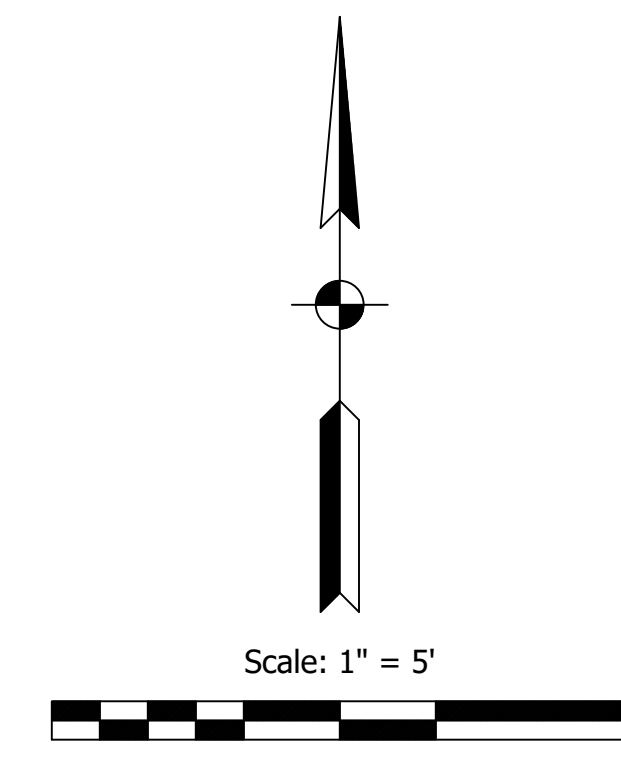
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1-02-2024  
  
 Arnold C. Heung

SCALE: AS SHOWN		
DRAWN BY: AMB/ARC		
CHECKED BY: BAH		
DATE: JANUARY 2, 2024		
Revision	Drawn By	Date
FILE NO: 23-12862		
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES		
PROJECT DESCRIPTION: DNR STARVE HOLLOW ADA IMPROVEMENTS		
SHEET TITLE: SITE 3		
DESIGN PHASE: FINAL PLANS		
SHEET NUMBER: <b>5</b>		





**EX. FEATURES LEGEND**

- EX. ASPHALT
- UNDERGRND. TELE.
- SANITARY SEWER
- FLOWLINE
- STORM PIPE
- GUARDRAIL
- SANITARY MH
- BENCHMARK
- TRAVERSE
- MAG NAIL SET
- PROPOSED ASPHALT WALKWAY - ADA COMPLIANT (43 SYS)

CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #4	Mag Nail Flush With Road	1299248.59	210653.37	550.89
C.P. #5	Mag Nail Flush With Road	1299204.22	209863.03	555.04

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
 VERTICAL DATUM = NAVD 88  
 TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED ON MAY 26, 2022.

- GENERAL NOTES:**
- CONSTRUCTION SHALL REMAIN WITHIN THE LIMITS MATCHING EXISTING DISTURBED LIMITS.
  - TYPICAL SECTION PER DETAIL ON SHEET 9.
  - SEE DETAIL SHEET 9 FOR EROSION CONTROL REQUIREMENTS (AS NEEDED) AND SEEDING REQUIREMENTS FOR DISTURBED AREAS.
  - CONTRACTOR SHALL ENSURE ADA COMPLIANCE THROUGHOUT PROJECT LIMITS.
  - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.

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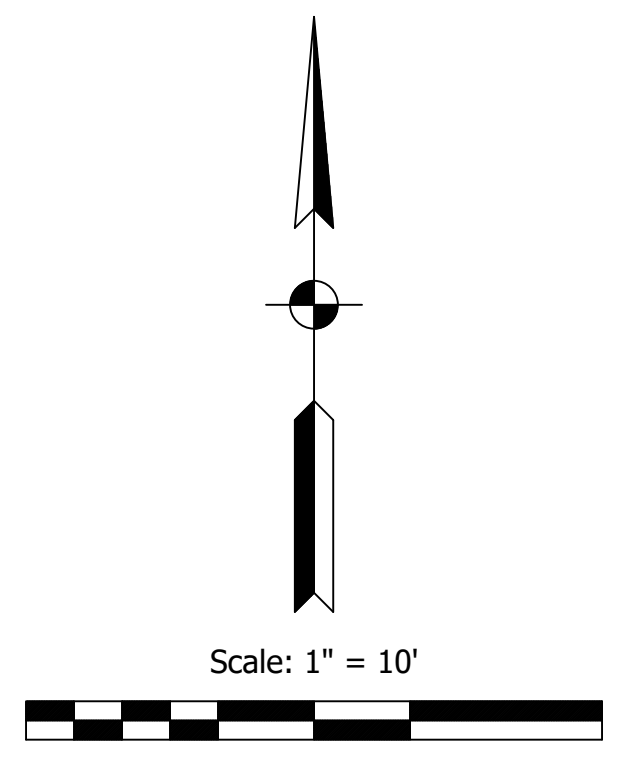
PROJECT DESCRIPTION:  
 DNR STARVE HOLLOW ADA  
 IMPROVEMENTS

SHEET TITLE:  
 SITE 4

DESIGN PHASE:  
 FINAL PLANS

SHEET NUMBER:  
**6**





**EX. FEATURES LEGEND**

- EX. ASPHALT
- EX. GRAVEL
- UNDERGRND. TELE.
- SANITARY SEWER
- FLOWLINE
- STORM PIPE
- GUARDRAIL
- SANITARY MH
- BENCHMARK
- TRAVERSE
- MAG NAIL SET
- PROPOSED ASPHALT PARKING AREA (516 SYS)
- ADA PARKING SIGN

**CONTROL POINT & BENCHMARK SUMMARY**

PT. #	Description	Northing	Easting	Elevation
C.P. #6	Mag Nail Flush With Road	1300951.93	211778.88	553.49
C.P. #7	Mag Nail Flush With Road	1300836.19	211712.58	553.24

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
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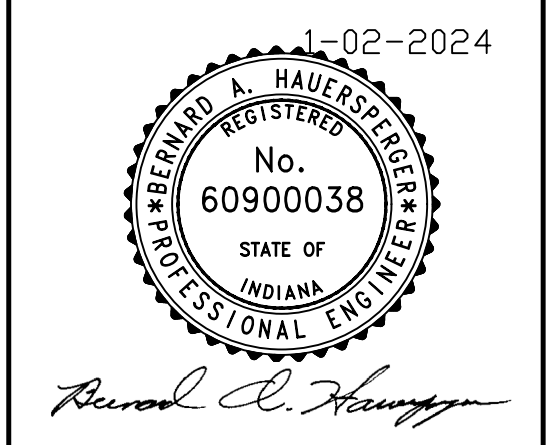
**GENERAL NOTES:**

- ALL SPACES TO RECEIVE CONCRETE WHEEL STOPS IN ACCORDANCE WITH DETAIL ON SHEET 9.
- PROVIDE INLET PROTECTION PER DETAIL ON SHEET 9 AND SEEDING REQUIREMENTS FOR DISTURBED AREAS.
- TYPICAL SECTION PER DETAIL ON SHEET 9.
- ADA STRIPING SHALL BE 4" BLUE THERMOPLASTIC, REMAINING STRIPING SHALL BE 4" WHITE THERMOPLASTIC.
- CONTRACTOR SHALL ENSURE ADA COMPLIANCE THROUGHOUT PROJECT LIMITS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.

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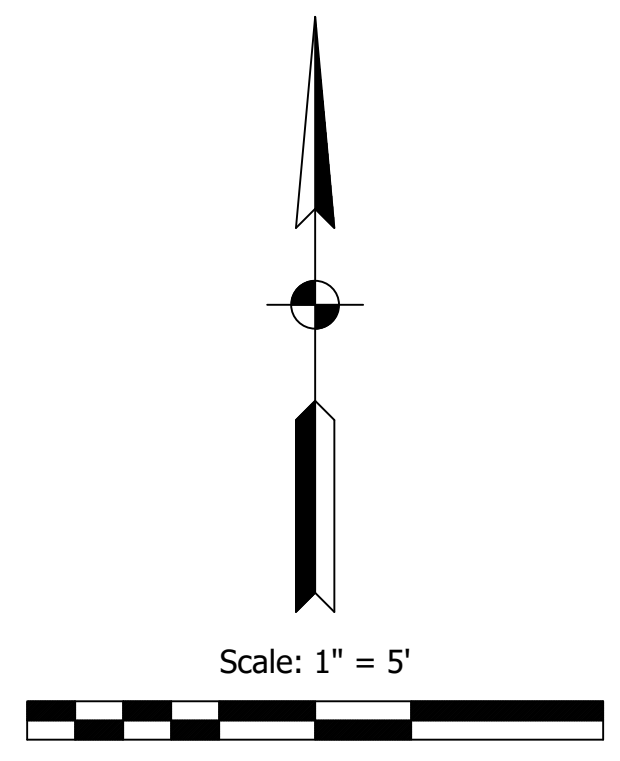
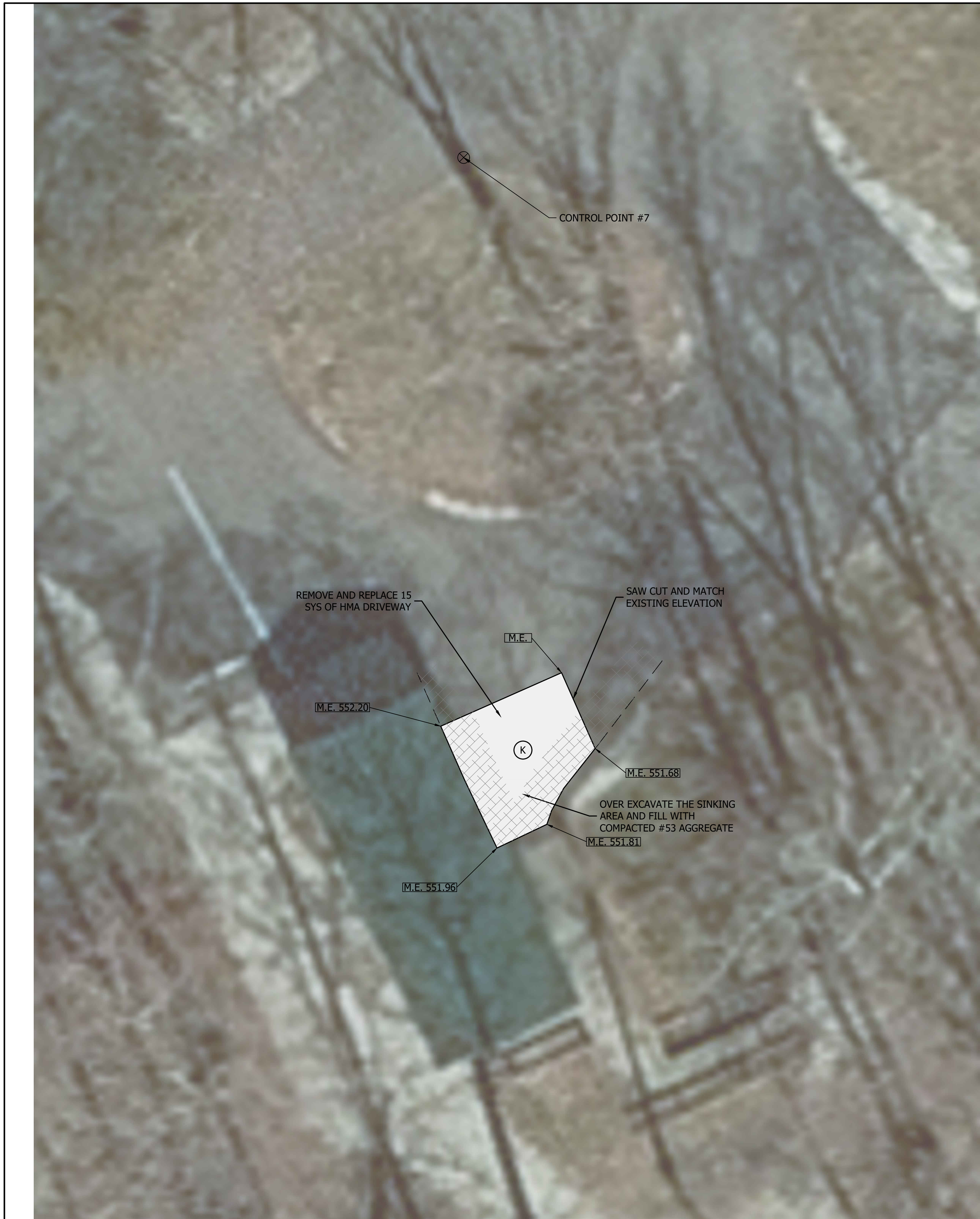
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PROJECT DESCRIPTION: DNR STARVE HOLLOW ADA IMPROVEMENTS		
SHEET TITLE: SITE 5		
DESIGN PHASE: FINAL PLANS		
SHEET NUMBER: <b>7</b>		





**EX. FEATURES LEGEND**

- |                  |  |              |  |
|------------------|--|--------------|--|
| EX. ASPHALT      |  | SANITARY MH  |  |
| UNDERGRND. TELE. |  | BENCHMARK    |  |
| SANITARY SEWER   |  | TRAVERSE     |  |
| FLOWLINE         |  | MAG NAIL SET |  |
| STORM PIPE       |  |              |  |
| GUARDRAIL        |  |              |  |
- 
- PROPOSED ASPHALT PARKING AREA (14 SYS)

CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #6	Mag Nail Flush With Road	1300951.93	211778.88	553.49
C.P. #7	Mag Nail Flush With Road	1300836.19	211712.58	553.24

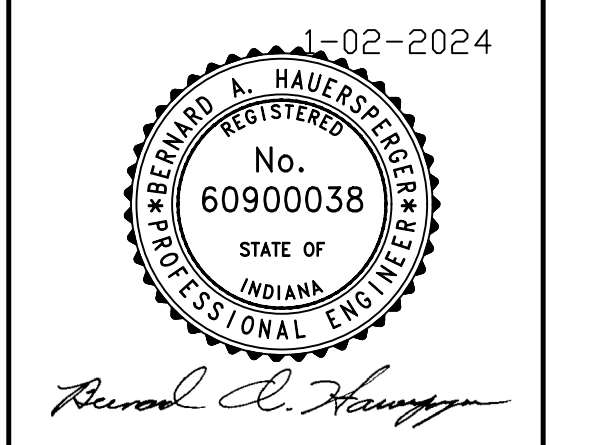
HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA EAST)  
 VERTICAL DATUM = NAVD 88  
 TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED ON MAY 26, 2022.

- GENERAL NOTES:
- CONSTRUCTION SHALL REMAIN WITHIN THE LIMITS MATCHING EXISTING DISTURBED LIMITS.
  - TYPICAL SECTION PER DETAIL ON SHEET 9.
  - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND THROUGHOUT PROJECT LIMITS.

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**NOTES:**  
 1. This sheet is to be: ANSI D 22" X 34"

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 72 Henry Street, PO Box 47  
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 www.fpbhonline.com



SCALE: AS SHOWN		
DRAWN BY: AMB/ARC		
CHECKED BY: BAH		
DATE: JANUARY 2, 2024		
Revision	Drawn By	Date

FILE NO: 23-12862  
 CLIENT NAME:  
 INDIANA DEPARTMENT OF  
 NATURAL RESOURCES

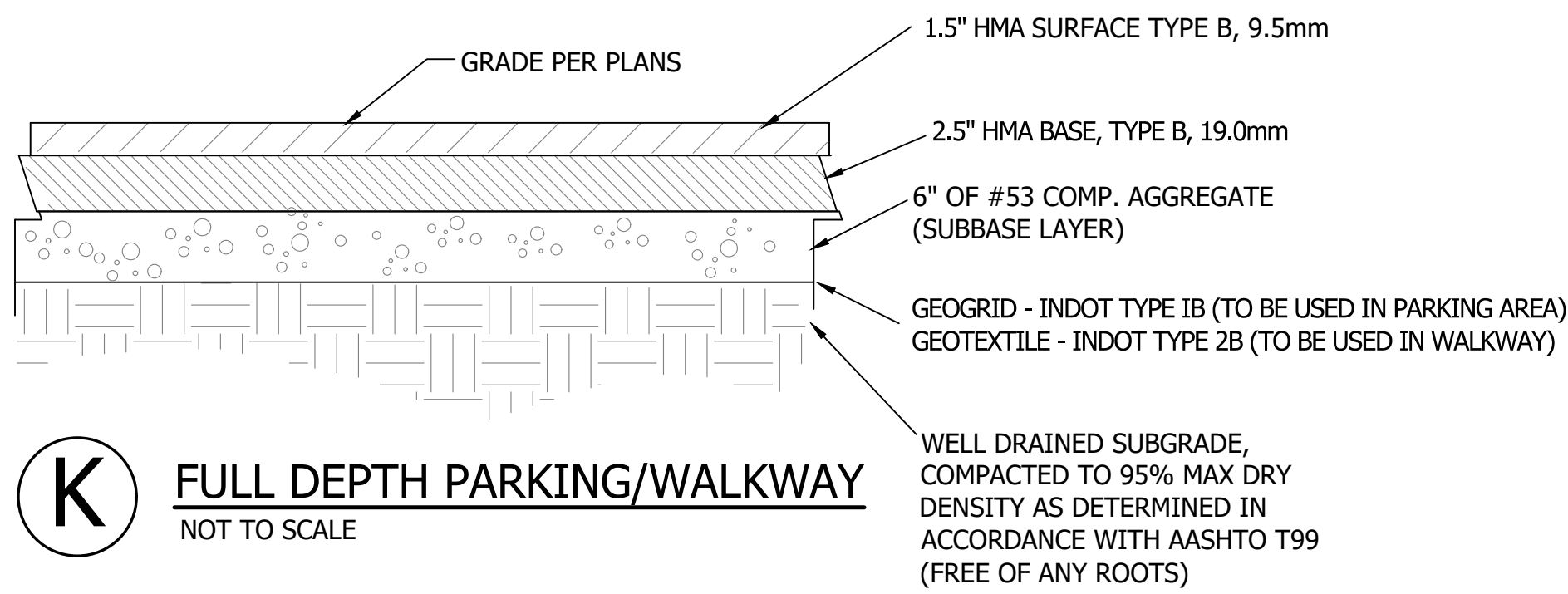
PROJECT DESCRIPTION:  
 DNR STARVE HOLLOW ADA  
 IMPROVEMENTS

SHEET TITLE:  
 SITE 6

DESIGN PHASE:  
 FINAL PLANS

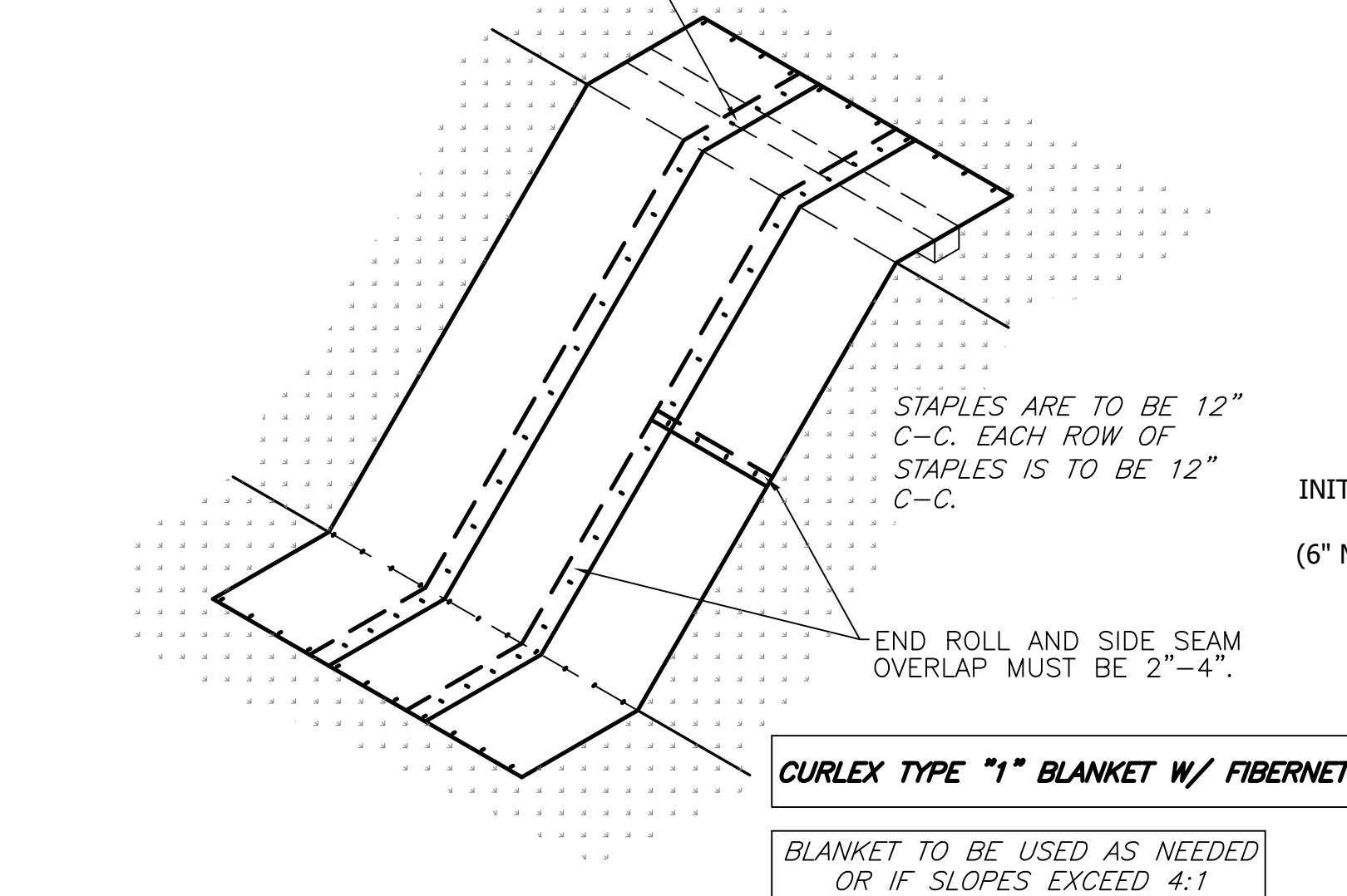
SHEET NUMBER:  
**8**





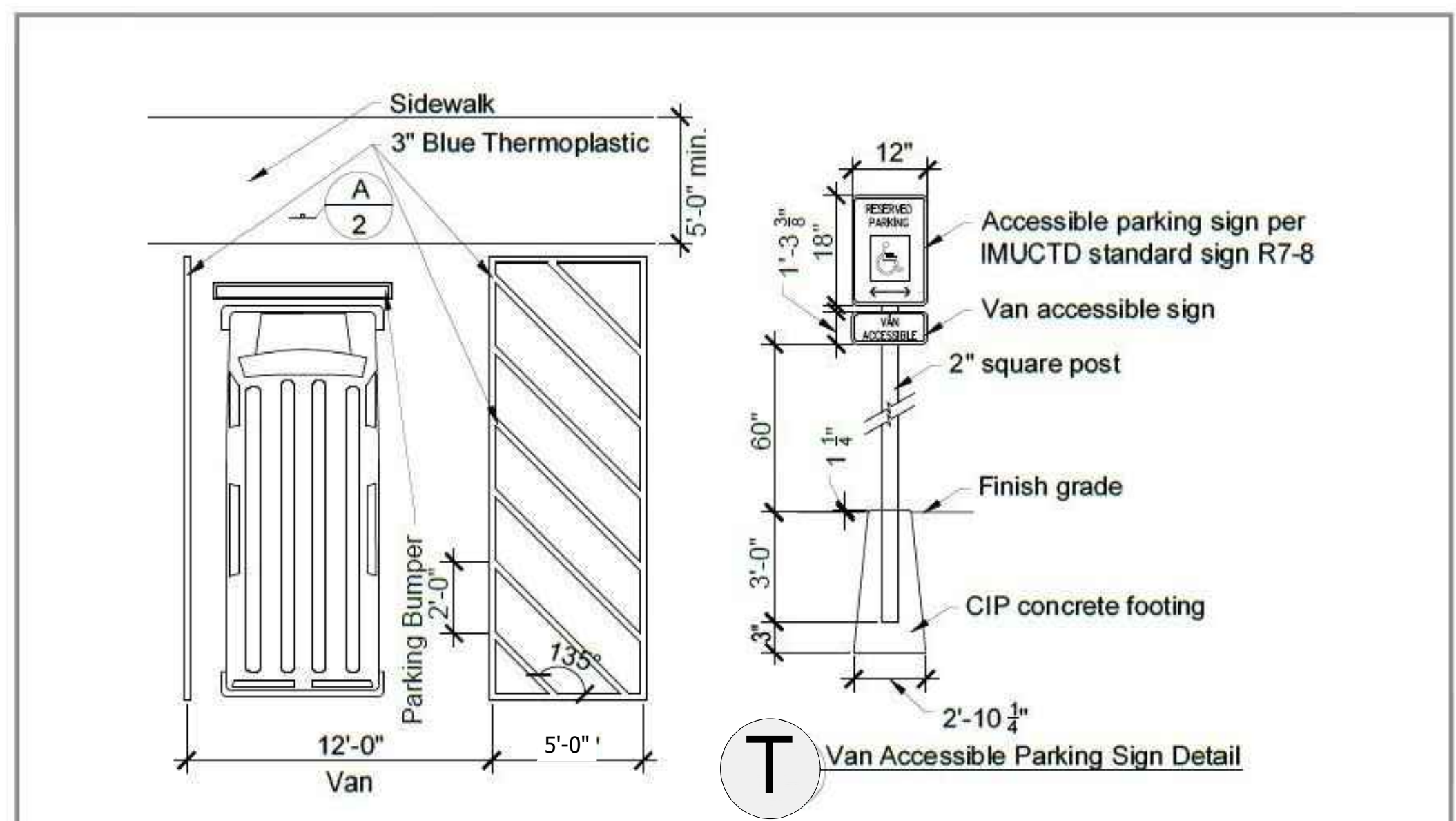
EXTEND BLANKET A MINIMUM OF 3'-0" OVER CREST OF SLOPE, AND STAPLE 12" C-C. IF 3'-0" IS NOT AVAILABLE, CONTRACTOR HAS OPTION TRENCHING IN THE BLANKET OR STAPLING IT 6" C-C.

**\*\*EROSION CONTROL BLANKET SHALL BE COORDINATED WITH DNR F&W FOR COMPLIANCE BEFORE INSTALLATION**



**EROSION CONTROL BLANKET**  
NOT TO SCALE

(ANY AREAS THAT ARE TO BE MULCH SEEDED SHALL BE HELD IN PLACE BY FABRIC/BLANKET THAT IS DNR F&W APPROVED)



**ADA VAN ACCESSIBLE PARKING DETAIL**

(NOTE: DETAIL PROVIDED BY DNR DIVISION OF ENGINEERING)

PERFORM FINAL GRADING AND COORDINATE WITH OWNER ON PERMANENT SEED STABILIZATION MIX. IF NO DIRECTION IS PROVIDED STABILIZE WITH PERMANENT SEED MIXTURE TYPE 'U' IN ACCORDANCE WITH CURRENT INDOT SPECIFICATION SECTION 621.06. APPLY FERTILIZER AND MULCH PER INDOT SPECIFICATION 621.05. SEEDING SHALL BE IN ACCORDANCE WITH INDOT SPEC SECTION 621.12 SEASONAL LIMITATIONS: WARRANTY BOND REQUIRED FOR SEEDING DONE BETWEEN OCTOBER 16 AND JANUARY 31. SEEDING WITHOUT MULCH SHALL NOT BE DONE BETWEEN MAY 1 AND AUGUST 15. AS PART OF FINAL GRADING AND STABILIZATION, CONTRACTOR SHALL REMOVE ANY SEDIMENT ACCUMULATED IN TRAPPING DEVICES. IMMEDIATELY SEED SLOPES WITH MULCH SEEDING TYPE U OR EROSION CONTROL BLANKET WITH SEEDING. TYPE U SEED MIX SHALL BE APPLIED AT 196.5LB/ACRE CONSISTING OF 100LB/ACRE 4-WAY BLEND OF TURF TYPE TALL FESCUE, 50LB/ACRE CREEPING RED FESCUE, 45 LB/ACRE OF PERENNIAL RYE GRASS AND 1.5 LB/ACRE WHITE DUTCH CLOVER. REFER TO INDOT SPEC SECTION 621 FOR ADDITIONAL DETAILS. IF SLOPES EXCEED 4:1, EROSION CONTROL BLANKET IS REQUIRED. SEE SPECS FOR REQUIREMENTS.

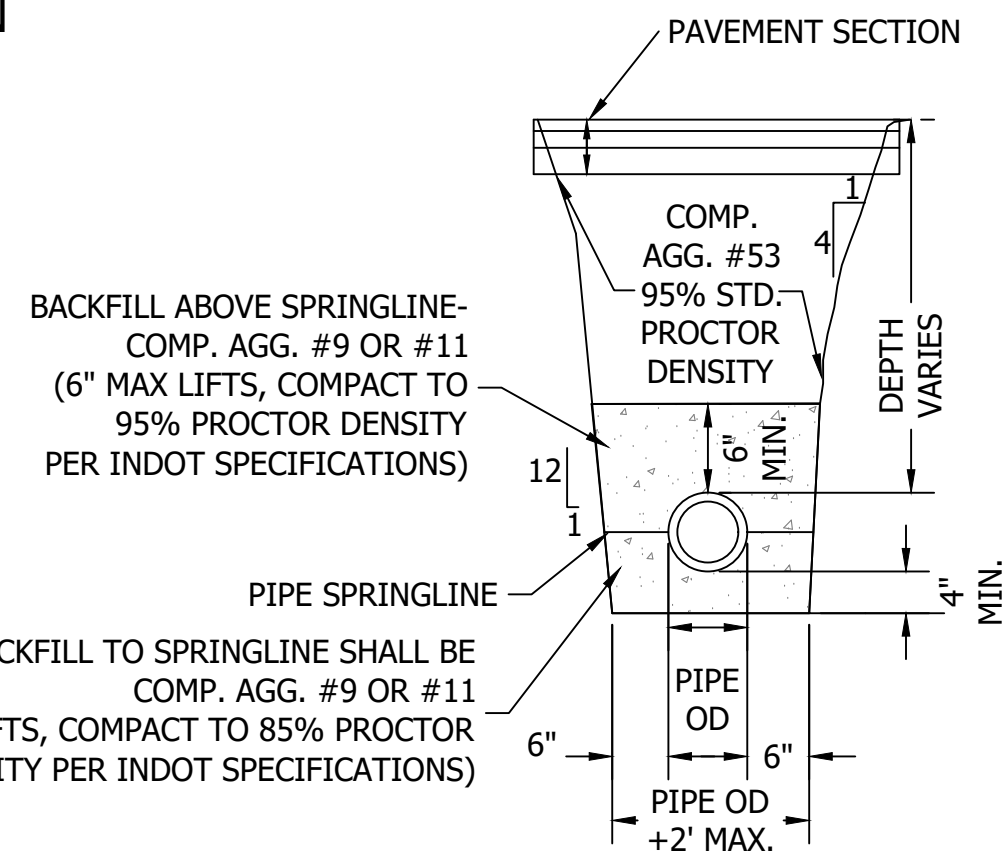
CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL ESTABLISHED.

**SEEDING REQUIREMENTS**  
NOT TO SCALE

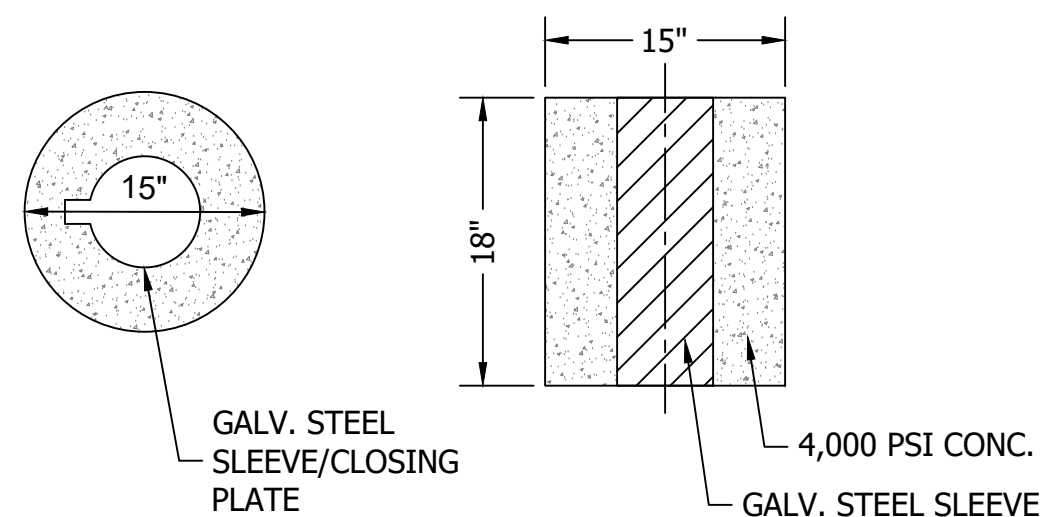
NOTES  
1) FULL DEPTH COMPACTED AGGREGATE #53S SHALL GO TO BOTTOM OF PAVEMENT SECTION.

2) GRANULAR BACKFILL PLACED AND COMPACTED PER INDOT 2022 SPECIFICATIONS AND SUPPLEMENTS.

4. THIS DETAIL VALID FOR ROOF DRAINS, STORM SEWERS, SANITARY SEWER & WATER SERVICE LINES. PROVIDE DETECTION WIRE ON WATER LINES.  
5. TRENCH DEPTHS SHALL BE PER PLANS AND SHALL MEET MANUFACTURER'S REQUIREMENTS AS WELL AS LOCAL / STATE / FEDERAL REQUIREMENTS.



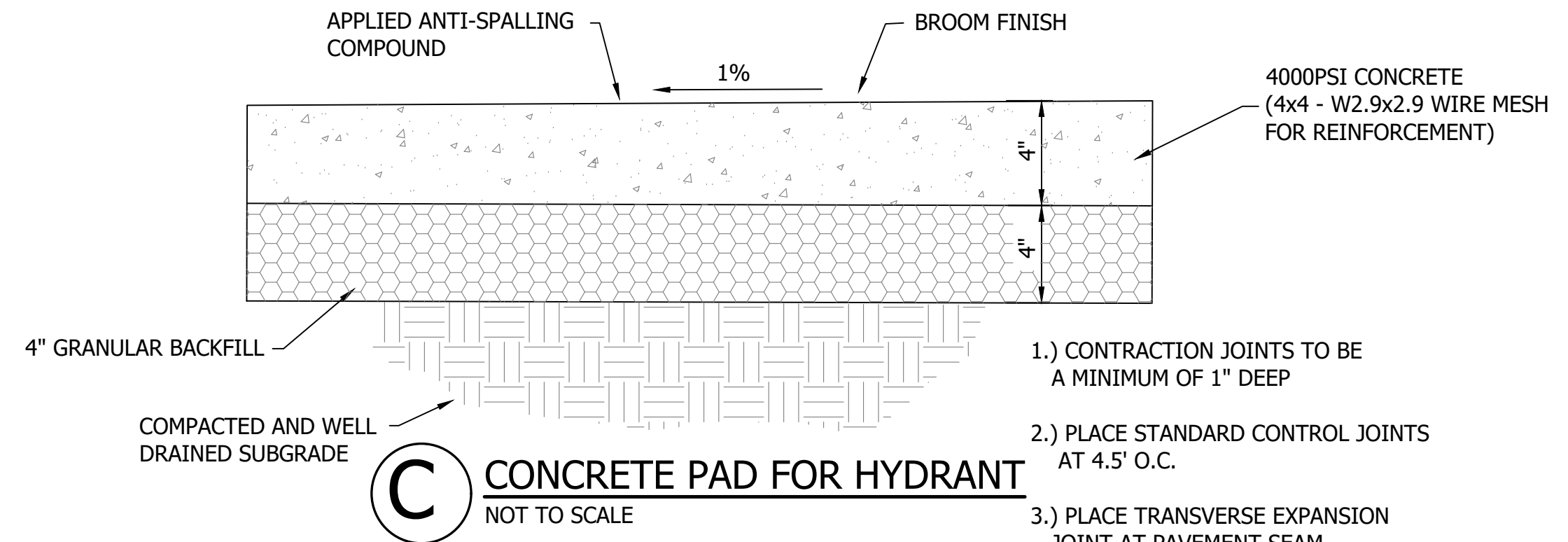
**STANDARD TRENCH DETAIL**  
(PAVED AREAS - WITHIN 5' OF PAVEMENT)  
NOT TO SCALE



GENERAL NOTES: FOR (6) SIX REMOVABLE BOLLARDS TO BE INSTALLED

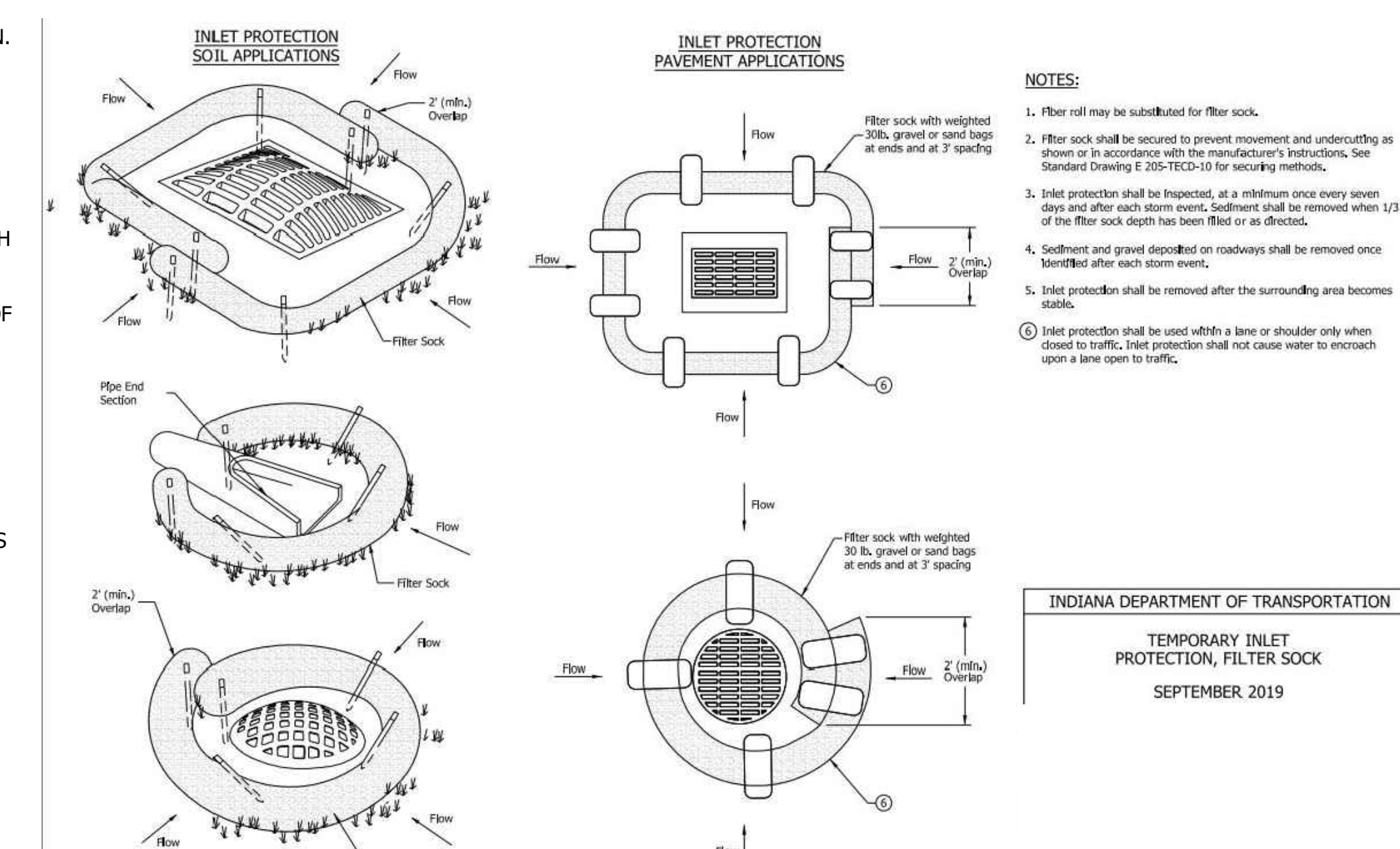
1. LOCKING BOLLARDS SHALL BE OF THE REMOVABLE TYPE WITH (PAD LOCKING) HINGED SELF-CLOSING PLATES.
2. WHEN THE BOLLARD IS REMOVED, THE HINGED CLOSURE PLATE SHALL BE DESIGNED IN A MANNER TO ALLOW THE CLOSURE PLATE TO BE FLUSH WITH THE PAVEMENT/GRADE.
3. BOLLARDS SHALL BE 42" IN HEIGHT ABOVE GRADE AND MINIMUM OF 18" BELOW GRADE.
4. REMOVABLE BOLLARDS SHALL BE OF THE PIPE AND SLEEVE DESIGN.
5. PIPE BOLLARD SHALL BE 6" SCH. 40 WITH A SLEEVE. ALL STEEL SHALL BE GALVANIZED.
6. CONCRETE SHALL BE 4,000 PSI CONCRETE.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE WITH DNR ON FINAL PLACEMENT OF BOLLARDS AND PLASTIC BOLLARD SLEEVE COLOR.

**(TYP) REMOVABLE BOLLARD**  
NOT TO SCALE



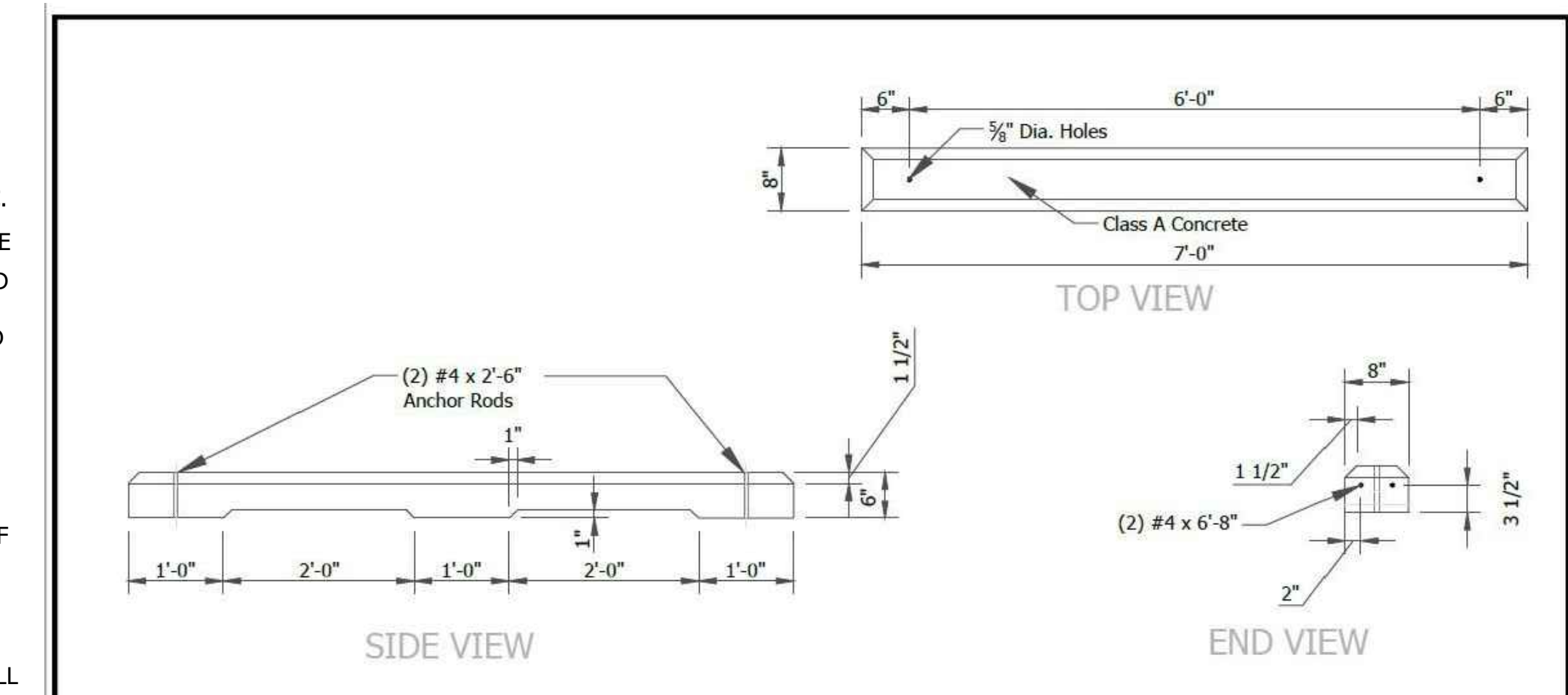
- 1.) CONTRACTION JOINTS TO BE A MINIMUM OF 1" DEEP
- 2.) PLACE STANDARD CONTROL JOINTS AT 4.5' O.C.
- 3.) PLACE TRANSVERSE EXPANSION JOINT AT PAVEMENT SEAM

**CONCRETE PAD FOR HYDRANT**  
NOT TO SCALE



INDIANA DEPARTMENT OF TRANSPORTATION  
TEMPORARY INLET PROTECTION, FILTER SOCK  
SEPTEMBER 2019

**INLET PROTECTION - E 205-TECD-02**  
NOT TO SCALE



**CONCRETE PARKING WHEELSTOP DETAIL**

NOT TO SCALE  
(NOTE: DETAIL PROVIDED BY DNR DIVISION OF ENGINEERING)

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1-02-2024  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900038  
STATE OF INDIANA  
Revised C. H. Huggins

SCALE: AS SHOWN  
DRAWN BY: AMB/ARC  
CHECKED BY: BAH  
DATE: JANUARY 2, 2024

Revision	Drawn By	Date

FILE NO: 23-12862  
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES

PROJECT DESCRIPTION: DNR STARVE HOLLOW ADA IMPROVEMENTS

SHEET TITLE: DETAILS

DESIGN PHASE: FINAL PLANS

SHEET NUMBER: