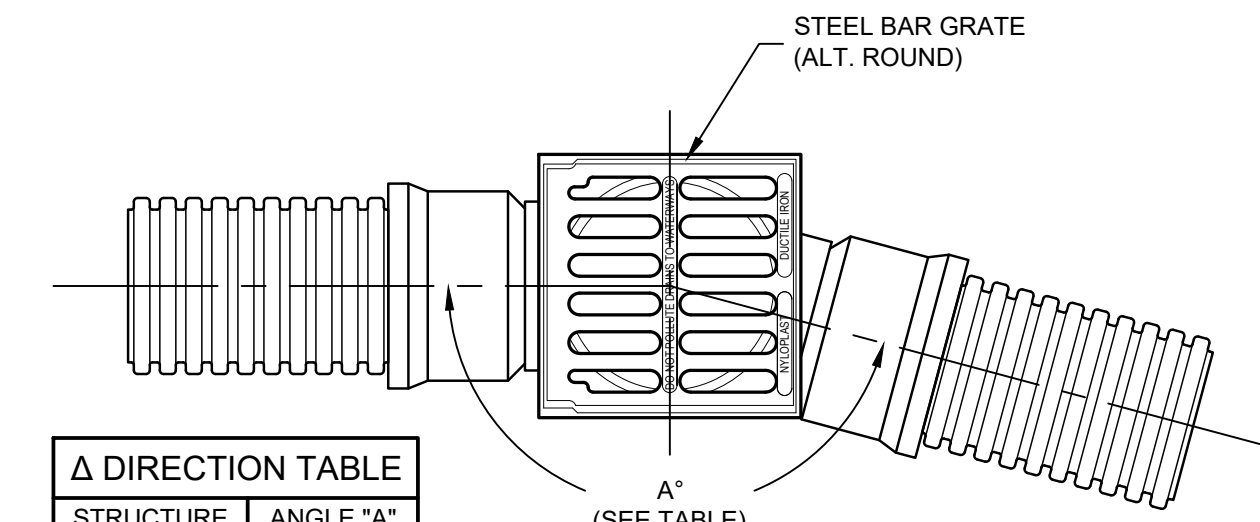


ENLARGED DRAINAGE PLAN

SCALE: 1" = 50'

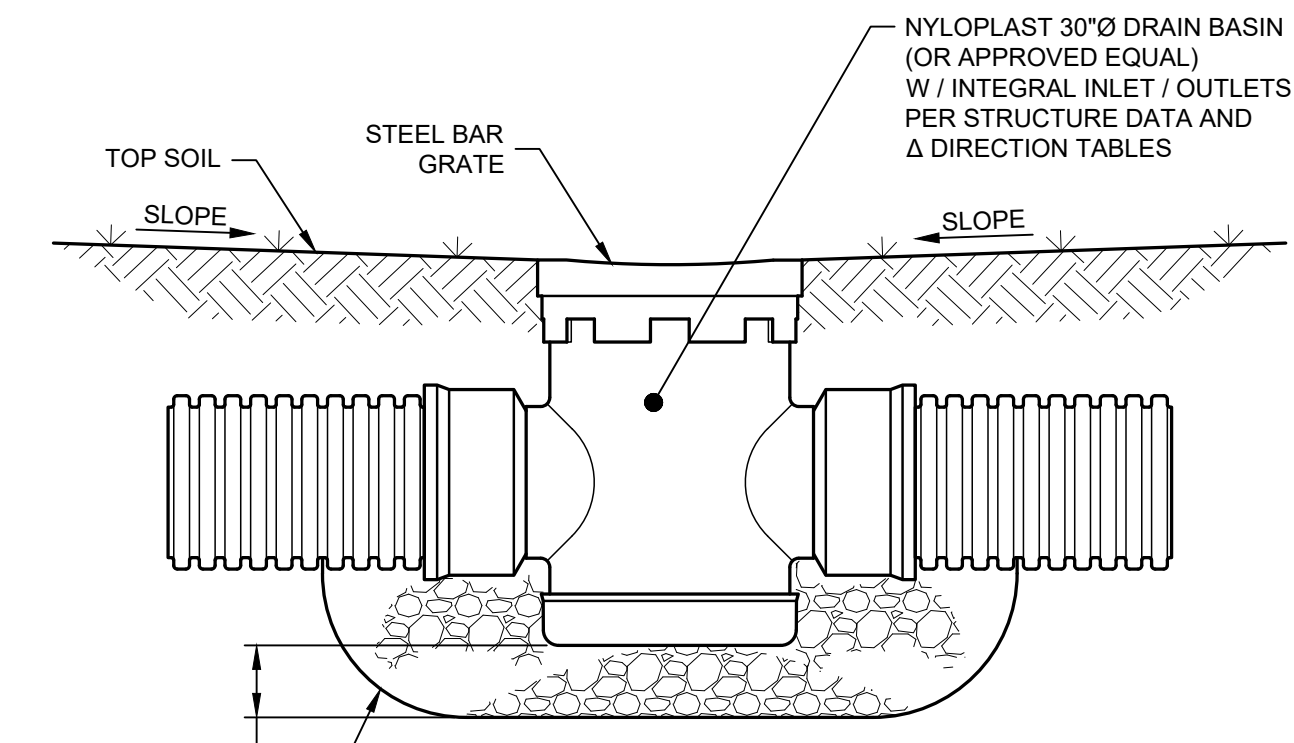
SCOPE OF WORK

1. EXCAVATE AND REMOVE APPROXIMATELY 275' OF THE EXISTING UNDERSIZED 15"Ø HDPE PIPE LOCATED IN THE DRAINAGE EASEMENT BETWEEN LOTS 164 / 166 AND LOTS 167 / 168.
2. TIE-IN TO THE END OF THE EXISTING 18"Ø HDPE PIPE LOCATED APPROXIMATELY BETWEEN LOTS 164 AND 165. TIE-IN TO START WITH A.D. #400.
3. INSTALL APPROXIMATELY 280' OF THE 18" Ø N-12 HDPE SMOOTH WALL DRAINAGE PIPE (OR EQUAL) FROM A.D. #400 TO A.D. #410. PIPE TO HAVE A MINIMUM COVER OF 12" (6" OF TOPSOIL). OVERALL SLOPE OF LINE SHOULD BE APPROXIMATELY 2.0%.
4. INSTALL INTERMEDIATE AREA DRAIN / MANHOLES AT APPROXIMATELY 50' - 65' INTERVALS (A.D. #400, 402, 404, 406, 408, AND 410). AREA DRAINS TO HAVE FULL SIZE STEEL BAR GRATES TO CAPTURE SURFACE RUNOFF WATER. INSTALL MANHOLES AT ANY CHANGE IN DIRECTION OF THE PIPE.
5. AREA DRAIN GRATE TOPS TO BE INSTALLED APPROXIMATELY 4" - 6" BELOW THE SURROUNDING GROUND LEVEL TO PROMOTE SURFACE WATER FLOW INTO THE AREA DRAIN.
6. CONNECT INDIVIDUAL ROOF DOWNSPOUT DRAIN PIPES TO THE NEAREST AREA DRAIN, WHERE FEASIBLE.
7. BACKFILL PIPE AND AREA DRAIN / MANHOLES AS SHOWN ON DETAILS ON THE DRAWING.
8. COORDINATE THE INSTALLATION OF A.D. #410 AND P #411 WITH THE LOT 151 DEVELOPER WHO PLANS TO CONTINUE WITH INSTALLATION OF AN 18"Ø HDPE PIPE, AS WELL.
9. RESTORE DISTURBED AREAS WITH FINE GRADING, SEEDING, AND STRAWING. INSTALL EROSION MATS WHERE NECESSARY TO PREVENT EROSION, AND IF INSTALLATION IS COMPLETED PAST THE NORMAL GROWING SEASON.



Δ DIRECTION TABLE	
STRUCTURE	ANGLE "A"
AD #400	180°
AD #402	147°
AD #404	180°
AD #406	156°
AD #408	180°
AD #410	136°

PLAN



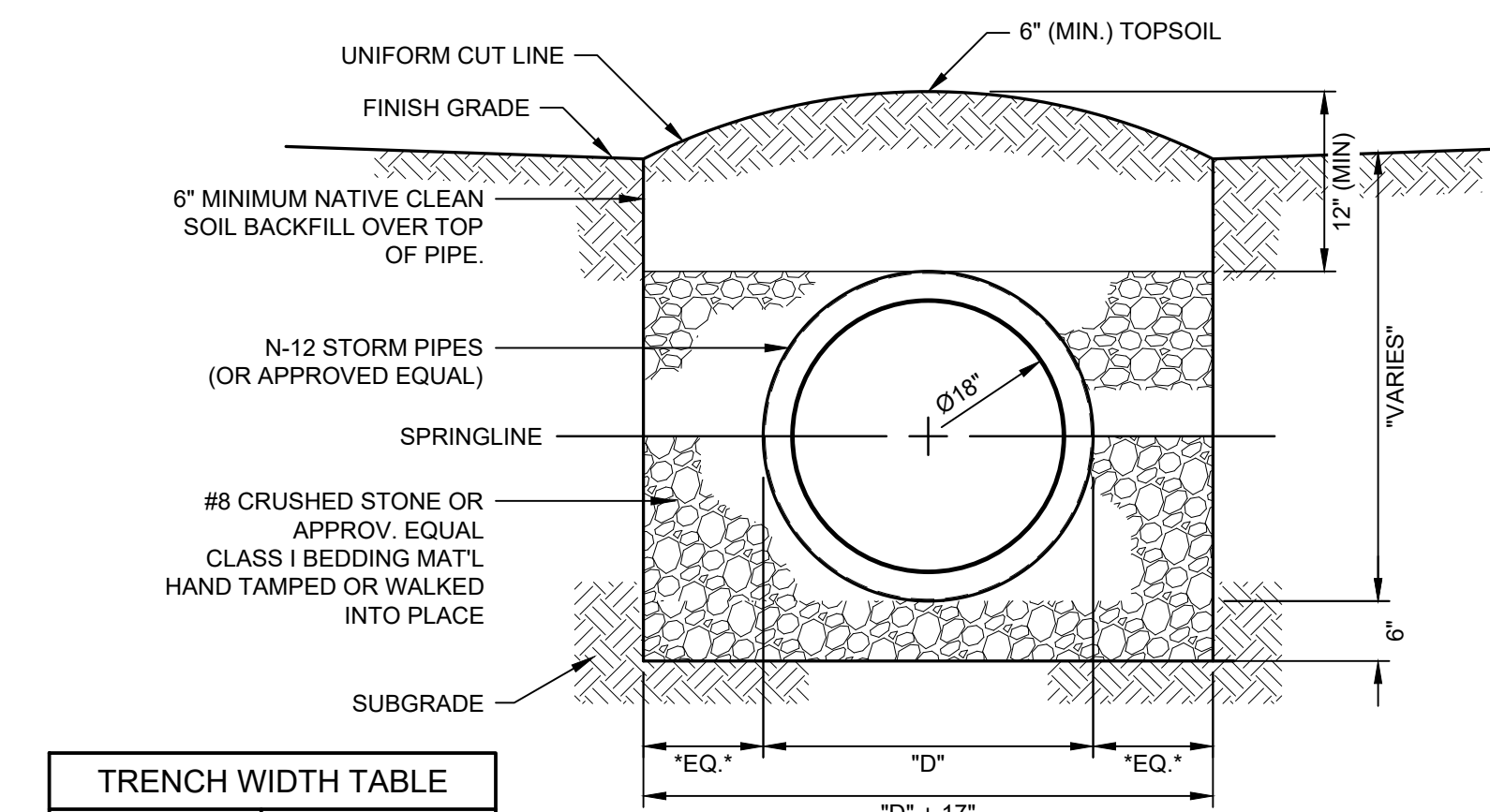
SECTION

AREA DRAIN BASIN DETAIL

(@ NON-TRAFFIC INSTALLATIONS)

SCALE: N.T.S.

STORM SEWER STRUCTURE DATA TABLE							
STRUCTURE NUMBER	SIZE	DESCRIPTION	LENGTH FEET	INVERT		SLOPE %	RIM = AD/MH FG = CI IE = FES ELEV.
				IN	OUT		
AD #400		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		409.81	409.80		DEPRESSED 4" - 6"
P #401	18"	N-12 HDPE DRAIN PIPE	65' - 0"			2.0%	12" COVER
AD #402		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		408.51	408.50		DEPRESSED 4" - 6"
P #403	18"	N-12 HDPE DRAIN PIPE	49' - 8"			2.0%	12" COVER
AD #404		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		407.51	407.50		DEPRESSED 4" - 6"
P #405	18"	N-12 HDPE DRAIN PIPE	49' - 8"			2.0%	12" COVER
AD #406		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		406.51	406.50		DEPRESSED 4" - 6"
P #407	18"	N-12 HDPE DRAIN PIPE	55' - 8"			2.0%	12" COVER
AD #408		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		405.39	405.38		DEPRESSED 4" - 6"
P #409	18"	N-12 HDPE DRAIN PIPE	55' - 8"			2.0%	12" COVER
AD #410		30" Ø NYLOPLAST IN-LINE DRAIN BASIN		404.26	404.25		DEPRESSED 4" - 6"
P #411	18"	N-12 HDPE DRAIN PIPE	5' - 0"	404.25		2.0%	12" COVER



TRENCH WIDTH TABLE	
PIPE Ø	MIN. WIDTH
18" Ø	3' - 3"

TYPICAL TRENCH SECTION HDPE PIPE (N-12 OR EQUAL)

(@ NON-PAVED AREAS)

SCALE: N.T.S.

REVISION	DATE	DESCRIPTION
1	8/25/20	REVISED PER DRAINAGE BOARD REVIEW

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WINDEMERE FARMS SUBDIVISION
SECTION 4 AND 5
REVISED DRAINAGE PLAN

DAVID J. WANNINGER
REGISTERED PROFESSIONAL ENGINEER
No. 17494
STATE OF INDIANA

David J. Wanninger

DRAWN BY	J. STEVENS
CHECKED BY	D. WANNINGER
DATE	08 / 18 / 20

JOB NO.
208105

DRAWING
RD-1