

PRELIMINARY & FINAL SITE PLAN AND FINAL CONSTRUCTION PLANS

PREPARED FOR

HARLINGEN VILLAGE SQUARE

LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001

SITUATED IN

MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY

GENERAL NOTES

- SUBJECT PROPERTY IS KNOWN AS BLOCK 6001, LOTS 33, 34, 34.01, 35, 35.01 AND 36 AS SHOWN SHEETS 3, 4, 5, 10, 25, 26, 28, 29, OF THE OFFICIAL TAX MAP OF MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY.
- BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM PLAN TITLED "OUTBOUND SURVEY OF BLOCK 6001, LOT 6, LOTS 33, 34, 34.01, 35, 35.01 AND 36, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. No. 41181, DATED DECEMBER 11, 2020.
- ALL PROPOSED UTILITIES ARE TO BE LOCATED UNDERGROUND AND SHALL BE APPROVED BY THE APPLICABLE AGENCIES AND UTILITY COMPANY.
- EXISTING UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS APPROXIMATE AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT ON CALL SERVICE AT 811 (OR 1-800-272-1000) AND OTHER LOCAL UTILITY COMPANIES AS REQUIRED FOR MARKOUT PRIOR TO ANY EXCAVATION. WHERE EXISTING UNDERGROUND UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING LOCATIONS, ELEVATIONS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENT AS REQUIRED TO AVOID CONFLICTS.
- PROPOSED UTILITY LOCATIONS SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.
- THERE SHALL BE NO ON-SITE BURIAL OF CONSTRUCTION MATERIAL, TREES, TREE STUMPS, BRUSH OR OTHER SURPLUS MATERIAL. ALL SUCH MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
- MAXIMUM PROPOSED GRADING SLOPE ON SITE IS 3:1 UNLESS OTHERWISE NOTED.
- ALL WHEELCHAIR ACCESSIBLE RAMPS AND PARKING SPACES SHALL MEET THE REQUIREMENTS OF CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION. SIGNS SHALL CONFORM TO STANDARD MUTCD SIZES UNLESS OTHERWISE APPROVED BY THE GOVERNING AUTHORITY.
- ALL CONSTRUCTION IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE MUNICIPAL, COUNTY AND STATE AGENCY REQUIREMENTS.
- CONSTRUCTION MATERIALS AND METHODS NOT OTHERWISE SPECIFIED OR SHOWN HEREIN SHALL CONFORM TO NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION AND AMENDMENTS).
- SITE AND UTILITY WORK ARE TO BE PERFORMED IN A MANNER TO MINIMIZE DAMAGE TO EXISTING VEGETATION AND TREES. ALL AREAS NOT AFFECTED BY CONSTRUCTION ARE TO REMAIN NATURAL, AND PROTECTED BY APPROPRIATE FENCING.
- TREE CLEARING SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND SHALL INCLUDE THE REMOVAL FROM THE SITE OF ALL STUMPS, ROOTS AND VEGETATIVE DEBRIS REMNANTS.
- COMPACTION OF FILL AREAS, BACKFILL FOR PROPOSED UTILITIES AND UNDER CONCRETE STRUCTURES, SHALL MEET ALL CODE REQUIREMENTS AND BE EQUAL TO A MINIMUM 95% MODIFIED PROCTOR DENSITY.
- ALL TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED AND/OR BARRICADED WHEN WORK IS NOT IN PROGRESS.
- ALL EXISTING CONTOUR LINES, PROFILES AND SPOT ELEVATIONS ARE APPROXIMATE. ALL PROPOSED CONTOURS SHALL BE GRADED TO BLEND EVENLY WITH EXISTING CONTOURS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SURROUNDING PROPERTY AND SHALL RESTORE ANY PROPERTY DAMAGED AS A RESULT OF HIS OPERATIONS. ALL RESTORATION COSTS WILL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST.
- APPLICANT SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL ENGINEER'S OFFICE AND PROVIDE MINIMUM 48 HOURS NOTICE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO NJAC 5:28-2.21 OF THE NJ UNIFORM CONSTRUCTION CODE AND CFR 1926.32(F) (OSHA COMPETENT PERSON).
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS HAVE BEEN SATISFIED AND PLANS MARKED AS "ISSUED FOR CONSTRUCTION".
- ANY DISCREPANCIES ENCOUNTERED BETWEEN FIELD CONDITIONS AND DESIGN PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO INSTALLATION OF IMPROVEMENTS.
- THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS IN THE SET.

MONTGOMERY TOWNSHIP APPROVALS

APPLICATION NO. _____
APPROVED BY: _____

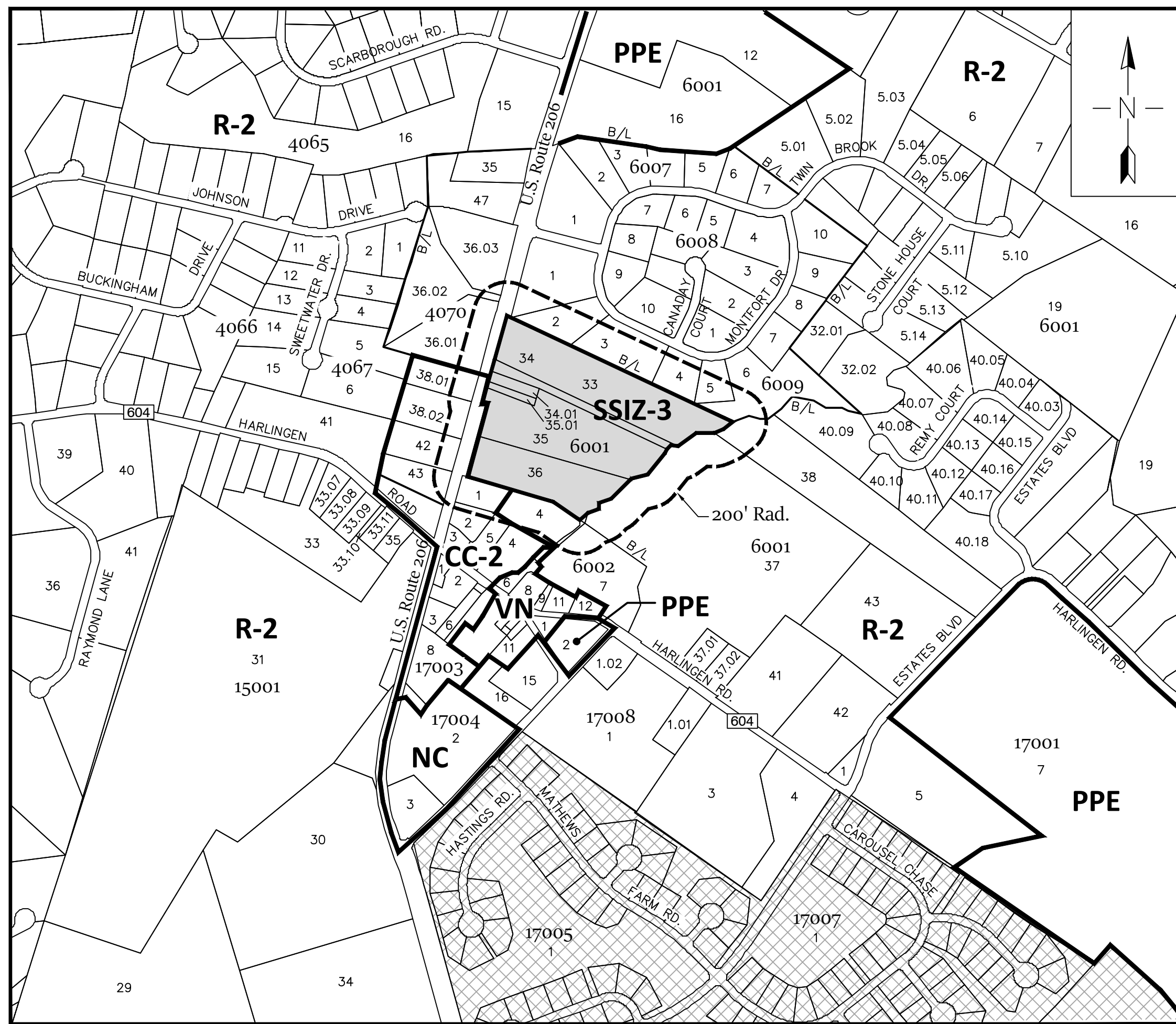
CHAIRPERSON - PLANNING BOARD DATE

SECRETARY - PLANNING BOARD DATE

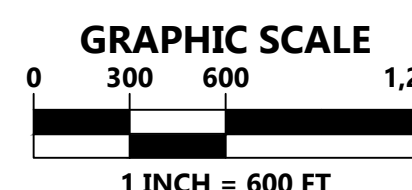
TOWNSHIP ENGINEER DATE

SOMERSET COUNTY
ACCEPTANCE STAMP

THESE PLANS ARE NOT ACCEPTED
FOR CONSTRUCTION UNLESS THIS
BLOCK IS STAMPED AND SIGNED BY A
STAFF MEMBER OF THE SOMERSET
COUNTY ENGINEERING DIVISION.
ACCEPTANCE OF THESE PLANS EXPIRES
TWO (2) YEARS FROM THE STAMPED DATE.



SITE LOCATION MAP



DATE: JANUARY 17, 2023
MARCH 10, 2023



VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWER LANE, HILLSBOROUGH, NJ 08844
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE (908) 359-8291
CERT. OF AUTHORIZATION NO. 24GA28132300

PROPERTY OWNERS WITHIN 200 FT.

BLOCK	PROPERTY ID	PROPERTY LOCATION	NAME & ADDRESS
4070	36.01	2184 RT 206	DENDI, PRASHANT REDDY & REDDY, M.K. 2184 VAN HORNE ROAD BELLE MEAD, NJ 08502
36.02	2192 RT 206		DANG-TAN, TAM & BUI, ANG NGOC THUY 2192 VAN HORNE ROAD BELLE MEAD, NJ 08502
36.03	2206 RT 206		FLOTTA, CHRISTOPHER G. & YUDERKI, T. 2206 VAN HORNE ROAD BELLE MEAD, NJ 08502
38.01	SWEETWATER DRIVE EXT		BELLE MONTGOMERY HOLDINGS, LLC 187 LAMBERTVILLE HOPEWELL HOPEWELL, NJ MAPS REALTY, LLC 45 STOUTS LANE SUITE 1 MONMOUTH JUNCTION, NJ 08552
38.02	2168 RT 206		HELLER PROPERTY PTNS, LP 180 MAIN STREET P.O. BOX 700 MADISON, NJ 07940
42	2162 RT 206		GASIOR, RICHARD J & DIANE 2152 RT 206 BELLE MEAD, NJ 08502
43	2152 RT 206		NAMBIAI, SAIKUMAR & KRIPA 27 STONE HOUSE COURT BELLE MEAD, NJ 08502
6001	5.14	27 STONE HOUSE COURT	CHENG, CHYUAN & LIN, YU 28 STONE HOUSE COURT BELLE MEAD, NJ 08502
5.15	28 STONE HOUSE COURT		PATEL, AMIT M. & ANKITA 30 STONE HOUSE COURT BELLE MEAD, NJ 08502
32.01	30 STONE HOUSE COURT		SALAS, MAX & THOMSON, KELLY L. 29 STONE HOUSE COURT BELLE MEAD, NJ 08502
32.02	29 STONE HOUSE COURT		WRIGHT, RICHARD LA FOLLETTE ET AL 64 HARLINGEN RD BELLE MEAD, NJ 08502
37	64 HARLINGEN ROAD		164 HARLINGEN ROAD BELLE MEAD, NJ 08502
38	HARLINGEN ROAD		SUNDARARAJAN, BARATHKUMAR & RAMAMO 22 REMY COURT BELLE MEAD, NJ 08502
40.06	22 REMY CT		CHATTERJEE, DIBYENDU 32 REMY COURT BELLE MEAD, NJ 08502
40.07	32 REMY CT		SUNG, SANGMIN & LEE-SUNG, JUNGHWAA 44 REMY COURT BELLE MEAD, NJ 08502
40.08	44 REMY CT		REBA, ALAN & JUDITH 51 REMY COURT BELLE MEAD, NJ 08502
40.09	51 REMY CT		M REAL ESTATE NJ CORP 2145 RT 206 BELLE MEAD, NJ 08502
6002	1	2145 RT 206	STERRITT REALTY L.L.C. 2139 RT 206 BELLE MEAD, NJ 08502
2	2139 RT 206		TOWNSHIP OF MONTGOMERY 2261 RT 206 BELLE MEAD, NJ 08502
4	14 HARLINGEN ROAD		MONTGOMERY EMERGENCY MED. SVC. INC. P.O. BOX 105 BELLE MEAD, NJ 08502
5	8 HARLINGEN ROAD		KOPLIK, LAWRENCE & ROBERTS, SARAH 48 HARLINGEN ROAD BELLE MEAD, NJ 08502
7	48 HARLINGEN ROAD		HUSSAIN, AFTAB 101 MONTFORT DRIVE BELLE MEAD, NJ 08502
6008	1	101 MONTFORT DRIVE	YANG, YANJIA 15 CANADAY CT BELLE MEAD, NJ 08502
2	15 CANADAY CT		SHAH, PETER & JASMINE 132 MONTFORT DRIVE BELLE MEAD, NJ 08502
6009	1	132 MONTFORT DRIVE	LONIAL, JIWAND S. & HERINDER K. 128 MONTFORT DRIVE BELLE MEAD, NJ 08502
2	126 MONTFORT DRIVE		MUNGI, SANJAY & VRUSJALO PHADNIS 122 MONTFORT DRIVE BELLE MEAD, NJ 08502
3	122 MONTFORT DRIVE		PHILLIPS, VERNON & WILSON, THELMA 102 MONTFORT DRIVE BELLE MEAD, NJ 08502
4	102 MONTFORT DRIVE		TAYLOR, JEFF T. & MARIA A. 96 MONTFORT DRIVE BELLE MEAD, NJ 08502
5	96 MONTFORT DRIVE		TOWNSHIP OF MONTGOMERY 2261 RT 206 BELLE MEAD, NJ 08502
6	MONTFORT DRIVE		VANDERBEL, ROBERT J & KRISADEE S 82 MONTFORT DRIVE BELLE MEAD, NJ 08502
7	82 MONTFORT DRIVE		GUPTA, POONAM & BANSAL, AJAY KUMAR 74 MONTFORT DRIVE BELLE MEAD, NJ 08502
8	74 MONTFORT DRIVE		

LIST OF UTILITIES COMPANIES

ARTHUR VILLANO
SUPERINTENDENT
MONTGOMERY TOWNSHIP MUNICIPAL BUILDING
2261 ROUTE 206
BELLE MEAD, NJ 08502

EMBARO
PO BOX 7086
LONDON, KY 40742
(BEFORE YOU DIG) 1-800-272-1000

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
MANAGER-CORPORATE PROPERTIES
80 PARK PLAZA, T68
NEWARK, NJ 07102

NJ AMERICAN WATER CO
131 WOODCREST ROAD P.O. BOX 5079
CHERRY HILL, NJ 08034
1-856-310-2206

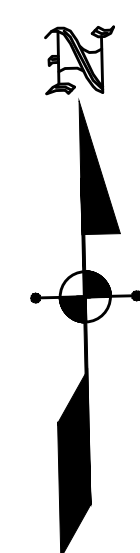
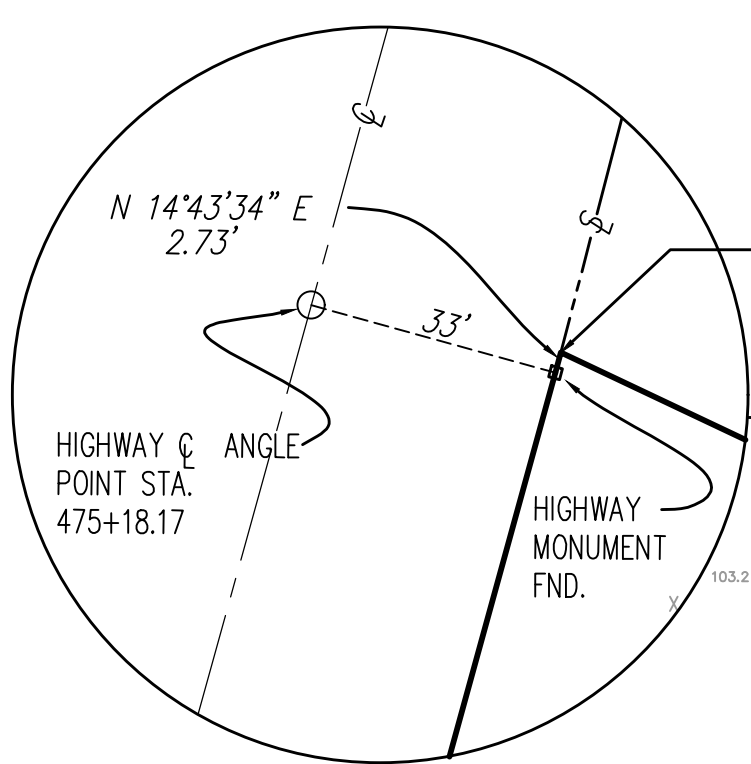
APPLICANT AND OWNER OF LOTS 33, 34, 34.01, 35, 35.01 & 36

HARLINGEN ASSOCIATES, LLC
36 BROWER LANE
HILLSBOROUGH, NJ 08844
(908) 359-8291

INDEX OF SHEETS

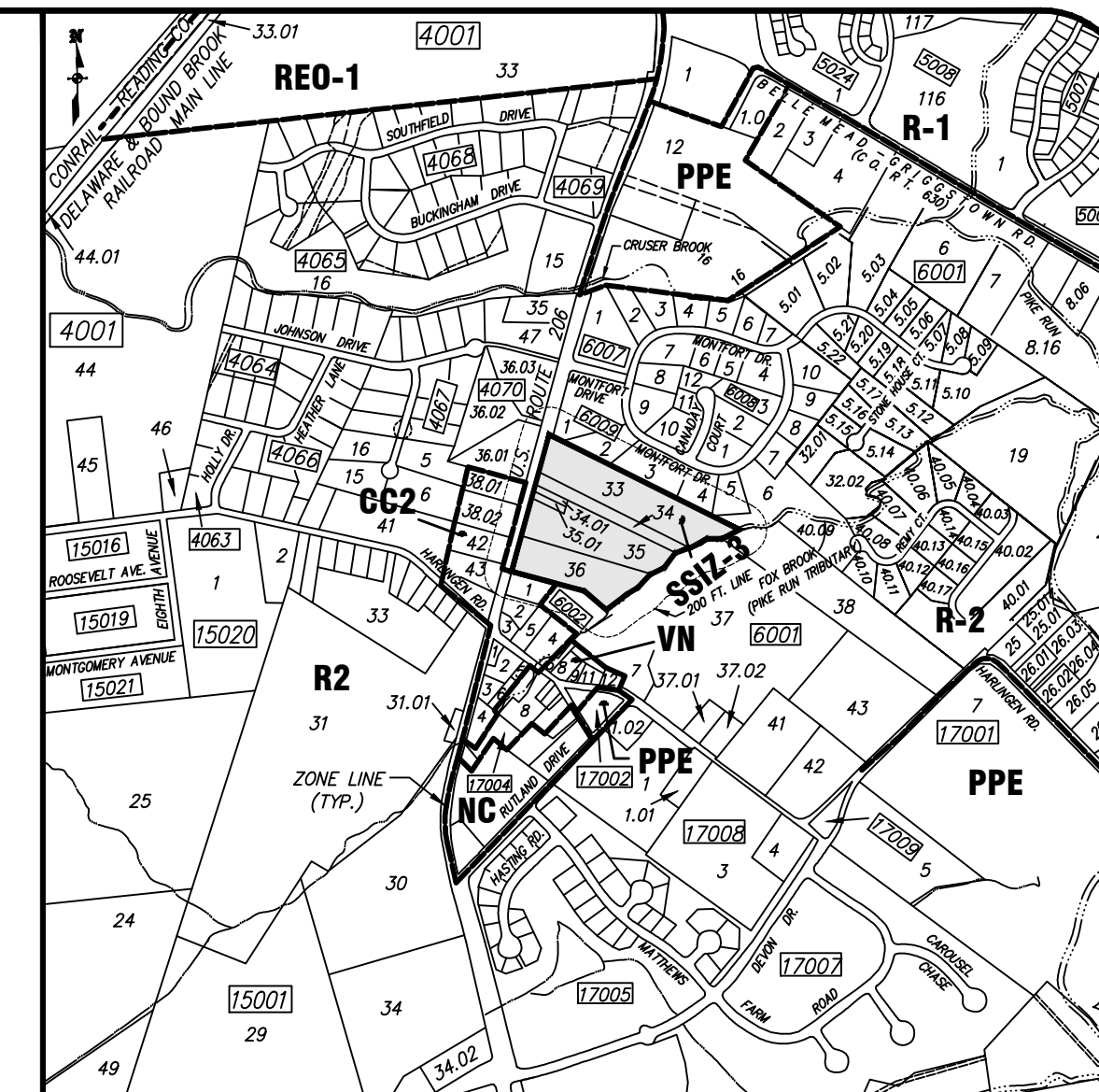
- COVER SHEET
- EXISTING FEATURES PLAN
- PRELIMINARY SUBDIVISION / SITE PLAN
- GRADING PLAN - NORTH
- GRADING PLAN - SOUTH
- SOIL EROSION & SEDIMENT CONTROL PLAN - NORTH
- SOIL EROSION & SEDIMENT CONTROL PLAN - SOUTH
- UTILITY PLAN - NORTH
- UTILITY PLAN - SOUTH
- PROFILES
- CONSTRUCTION DETAILS
- POND CONSTRUCTED WETLAND DETAILS
- SOIL EROSION & SEDIMENT CONTROL DETAILS
- PUMP STATION LAYOUT AND ELECTRICAL DETAILS
- DEP FRESHWATER WETLAND PERMIT PLANS
- DEP FLOOD HAZARD AREA PERMIT PLANS
- SANITARY SEWER FORCE MAIN EXTENSION PROFILE
- TREE MITIGATION PLAN
- LANDSCAPE PLAN - NORTH
- LANDSCAPE PLAN - SOUTH
- LANDSCAPE DETAILS
- LIGHTING PLAN - NORTH
- LIGHTING PLAN - SOUTH
- LIGHTING DETAILS
- TYPICAL BUILDING PLANS
- SIGNAGE AND STRIPING PLAN
- VEHICULAR CIRCULATION EXHIBIT
- ACCESSIBLE CURB RAMP & PLAN DETAILS
- MAILBOX LOCATION & DETAILS PLAN

BY: Michael K. Ford
Michael K. Ford New Jersey Professional Engineer
Licence No. 34722



TRACT ACREAGE CHART

EXISTING:		PROPOSED:	
LOT 33	= 8.119 AC.	PROPOSED LOT 33.01	= 11.001 AC.
LOT 34	= 1.147 AC.	PROPOSED LOT 33.02	= 1.812 AC.
LOT 34.01	= 0.518 AC.	PROPOSED PUMP	
LOT 35	= 7.093 AC.	STATION LOT 33.04	= 0.508 AC.
LOT 35.01	= 0.275 AC.	REMAINING LANDS TO	
LOT 36	= 5.037 AC.	BE DEDICATED TO	
		MONTGOMERY TOWNSHIP	
		PROPOSED LOT 33.03	= 8.868 AC.
TOTAL TRACT = 22.189 AC.		TOTAL TRACT = 22.189 AC.	



KEY MAP
SCALE: 1"=1,000'

PLAN REFERENCES:

- "OUTBOUND SURVEY OF BLOCK 6001, LOT 6, LOTS 33, 34, 34.01, 35, 35.01 AND 36, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. NO. 41181, DATED DECEMBER 11, 2020.
- "WETLANDS DELINEATION PLAN OF BLOCK 6009, LOT 6, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. NO. 41181, DATED JUNE 5, 2019 AND LAST REVISED NOV. 15, 2019.
- "CONCEPTUAL SITE PLAN PREPARED FOR HARLINGEN VILLAGE SQUARE, LOTS 33, 34, 34.01, 35 & 36 IN BLOCK 6001, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, MICHAEL K. FORD, N.J.P.E. LIC. NO. 34722, LAST REVISED 1/29/20.
- NJDEP FLOOD HAZARD AREA VERIFICATION PLANS PREPARED FOR HARLINGEN VILLAGE SQUARE LOTS 33, 34, 35 & 36 IN BLOCK 6001, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY PREPARED BY VAN CLEEF ENGINEERING ASSOCIATES, PETER W. OLEMAN, N.J.P.E. NO. 30963 DATED NOVEMBER 19, 2007, LAST REVISED AUGUST 22, 2022.

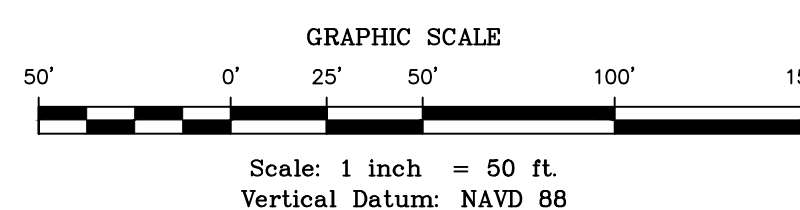
LEGEND

FW	CONSERVATION EASEMENT
FL	FLOODWAY LIMIT LINE
FL	FLOOD HAZARD AREA LIMIT
100'	100' MONTGOMERY TWP. BUFFER
RZL	RIPARIAN ZONE LIMIT
WB	WETLAND BUFFER LINE
WB	STATE OPEN WATERS
WB	WETLAND BUFFER LINE
WB	WETLAND LIMIT LINE W/PLAS
WB	WETLANDS
WB	WETLAND SWALE
WB	SLOPE AREAS GREATER THAN 15%
WB	CONTOURS
WB	ZONING LIMIT LINE
WB	SOIL LIMIT LINE
WB	TREELINE
WB	SPOT GRADE
WB	TOP OF CASTING ELEVATION
WB	TOP OF CRATE ELEVATION
WB	FIRST FLOOR ELEVATION
WB	TIME OF CONCENTRATION FLOW PATH

NOTE:

PER WETLANDS LETTER OF INTERPRETATION LINE VERIFICATION ISSUED JANUARY 7, 2020 FILE NO: 1813-03-00142, ACTIVITY NUMBER: FWW90001. NJDEP DIVISION OF LAND USE REGULATION HAS DETERMINED THAT THE RESOURCE VALUE AND THE STANDARD TRANSITION AREA OR BUFFER REQUIRED ADJACENT TO THE DELINEATED WETLANDS ARE AS FOLLOWS:

- ORDINARY (SWALE): FIELD POINTS WA-26 THROUGH WA-33 AND THEN CONTINUING TO WA-37. [NO WETLAND BUFFER]
- INTERMEDIATE: THE REMAINDER OF THE FIELD POINTS. [50 FOOT WETLAND BUFFER]
- STATE OPEN WATERS: WITHIN THE DELINEATED WETLANDS. [NO WETLAND BUFFER]



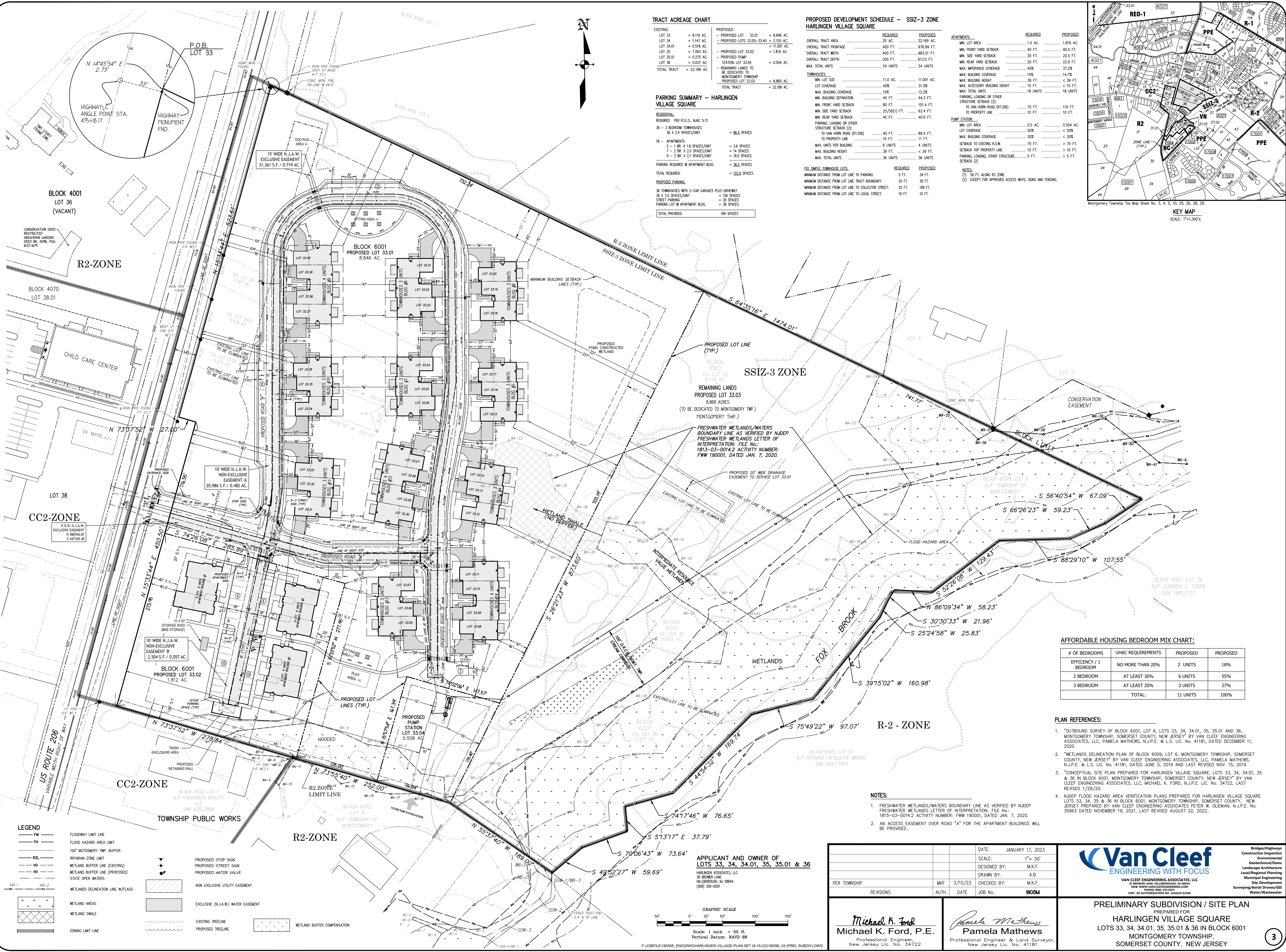
F:\PROJECTS\18180M_ENG\DWG\HARLINGEN VILLAGE PLAN SET (8-18-22)\18180M_02 (EXIST COND) DWG

REV	PER	TOWNSHIP	M.K.F.	03/10/23	CHECKED BY:	M.K.F.
REVISIONS	AUTH.	DATE	JOB NO.	18-05-M		

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722

Van Cleef
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
52 BROWER LANE, HILLSBOROUGH, NJ 08064
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 539-5251
CERT. OF AUTHORIZATION NO. 36428122380

EXISTING FEATURES PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY



LEGEND

	FLOODWAY LIMIT LINE
	FLOOD HAZARD AREA LIMIT
	100' MONTGOMERY TWP. BUFFER
	RIPARIAN ZONE LIMIT
	WETLAND BUFFER LINE (EXISTING)
	WETLAND BUFFER LINE (PROPOSED)
	STATE OPEN WATERS
	WETLANDS DELINEATION LINE W/FLAGS
	WETLAND AREAS
	WETLAND SWALE
	ZONING LIMIT LINE
	PROPOSED STOP SIGN
	PROPOSED STREET SIGN
	PROPOSED WATER VALVE
	NON EXCLUSIVE UTILITY EASEMENT
	EXCLUSIVE (N.J.A.W.) WATER EASEMENT
	EXISTING TREELINE
	PROPOSED TREELINE
	WETLAND BUFFER COMPENSATION

TRACT ACREAGE CHART

EXISTING:	PROPOSED:	
LOT 33 = 8,119 AC.	PROPOSED LOT 33.01 = 8,846 AC.	
LOT 34 = 1,147 AC.	PROPOSED LOTS 33.05-33.40 = 2,155 AC.	
LOT 35.01 = 0,518 AC.	PROPOSED LOT 33.02 = 11,001 AC.	
LOT 35 = 7,083 AC.	PROPOSED LOT 33.02 = 1,819 AC.	
LOT 35.01 = 0,275 AC.	PROPOSED PUMP STATION LOT 33.04 = 0,504 AC.	
LOT 36 = 5,037 AC.	REMAINING LANDS TO BE DEDICATED TO MONTGOMERY TOWNSHIP PROPOSED LOT 33.03 = 8,860 AC.	
TOTAL TRACT = 22,189 AC.	TOTAL TRACT = 22,189 AC.	

PARKING SUMMARY - HARLINGEN VILLAGE SQUARE

RESIDENTIAL:	
REQUIRED: PER R.S.I.S., NAC 5:21	
36 - 3 BEDROOM TOWNHOUSES	36 X 2.4 SPACES/UNIT = 86.4 SPACES
18 - APARTMENTS	2 - 1 BR. X 1.8 SPACES/UNIT = 3.6 SPACES
	7 - 2 BR. X 2.0 SPACES/UNIT = 14 SPACES
	9 - 3 BR. X 2.1 SPACES/UNIT = 18.9 SPACES
PARKING REQUIRED @ APARTMENT BLDG.	= 36.5 SPACES
	= 122.3 SPACES
PROPOSED PARKING:	
36 TOWNHOUSES WITH 2-CAR GARAGES PLUS DRIVEWAY	= 126 SPACES
36 X 1.5 SPACES/UNIT	= 54 SPACES
STREET PARKING	= 20 SPACES
PARKING LOT @ APARTMENT BLDG.	= 36 SPACES
TOTAL PROVIDED:	184 SPACES

PROPOSED DEVELOPMENT SCHEDULE - SSIZ-3 ZONE HARLINGEN VILLAGE SQUARE

OVERALL TRACT AREA	20 AC.	22,189 AC.
OVERALL TRACT FRONTAGE	400 FT.	976.84 FT.
OVERALL TRACT WIDTH	400 FT.	983.81 FT.
OVERALL TRACT DEPTH	200 FT.	613.0 FT.
MAX. TOTAL UNITS	54 UNITS	54 UNITS
TOWNHOUSES:		
MIN. LOT SIZE	11.0 AC.	11,001 AC.
LOT COVERAGE	40%	31.5%
MAX. BUILDING COVERAGE	15%	12.2%
MIN. BUILDING SEPARATION	40 FT.	44.3 FT.
MIN. FRONT YARD SETBACK	80 FT.	104.4 FT.
MIN. SIDE YARD SETBACK	25/50(1) FT.	62.4 FT.
MIN. REAR YARD SETBACK	40 FT.	40.6 FT.
PARKING, LOADING OR OTHER STRUCTURE SETBACK (2)	40 FT.	89.5 FT.
TO VAN HORN ROAD (RT.206)	10 FT.	11 FT.
TO PROPERTY LINE	6 UNITS	4 UNITS
MAX. UNITS PER BUILDING	6 UNITS	4 UNITS
MAX. BUILDING HEIGHT	39 FT.	< 39 FT.
MAX. TOTAL UNITS	36 UNITS	36 UNITS

APARTMENTS:

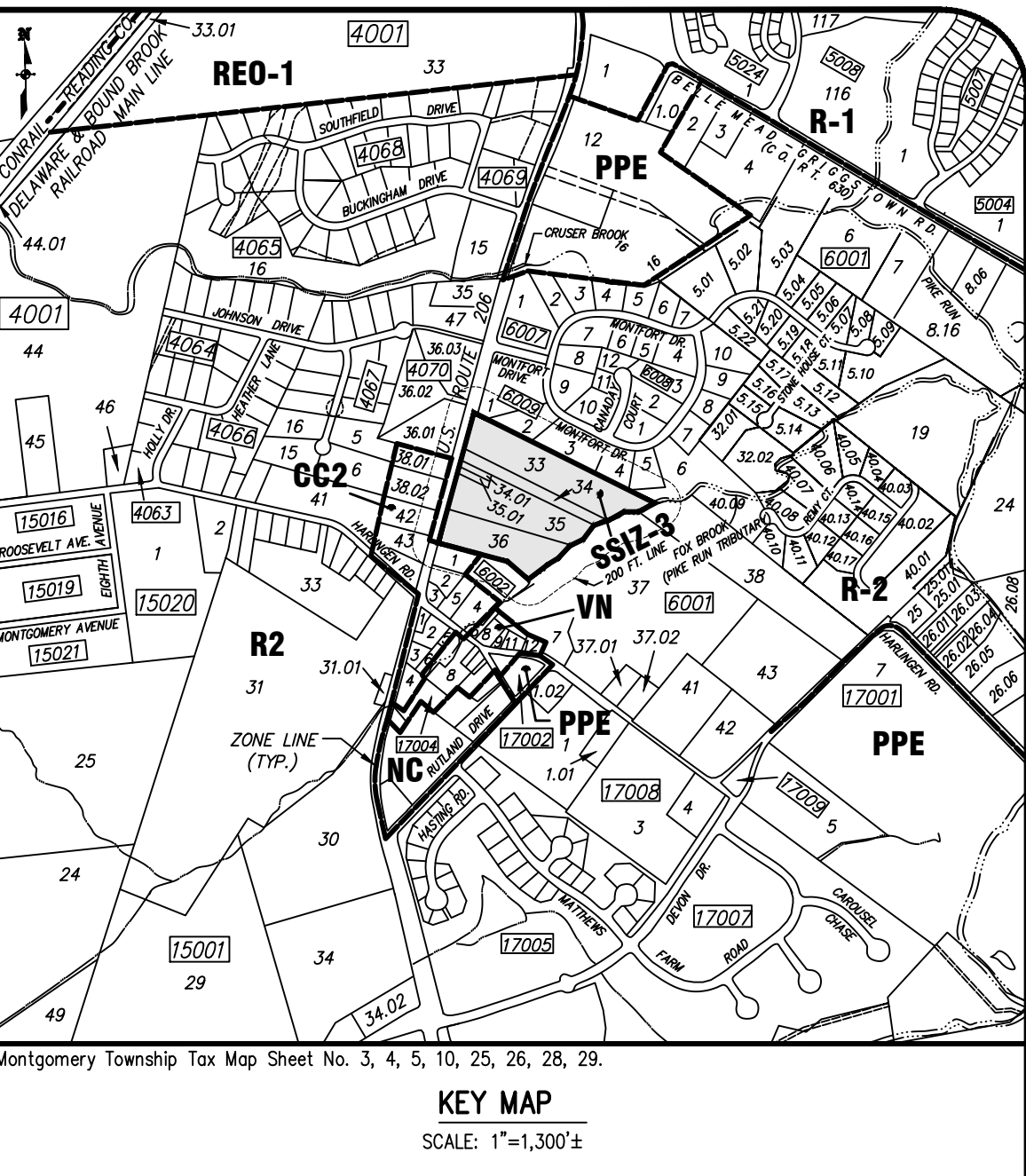
MIN. LOT AREA	1.0 AC.	1,819 AC.
MIN. FRONT YARD SETBACK	40 FT.	40.5 FT.
MIN. SIDE YARD SETBACK	20 FT.	22.9 FT.
MIN. REAR YARD SETBACK	20 FT.	22.9 FT.
MAX. INFILTRATION COVERAGE	40%	37.2%
MAX. BUILDING COVERAGE	15%	14.7%
MAX. BUILDING HEIGHT	39 FT.	< 39 FT.
MAX. ACCESSORY BUILDING HEIGHT	15 FT.	< 15 FT.
MAX. TOTAL UNITS	18 UNITS	18 UNITS
PARKING, LOADING OR OTHER STRUCTURE SETBACK (2):		
TO VAN HORN ROAD (RT.206)	75 FT.	119 FT.
TO PROPERTY LINE	10 FT.	10 FT.

PUMP STATION:

MIN. LOT AREA	0.5 AC.	0,504 AC.
LOT COVERAGE	50%	< 50%
MAX. BUILDING COVERAGE	30%	< 30%
SETBACK TO EXISTING R.O.W.	75 FT.	> 75 FT.
SETBACK TO PROPERTY LINE	10 FT.	> 10 FT.
PARKING, LOADING, OTHER STRUCTURE SETBACK (2)	5 FT.	> 5 FT.

NOTES:

- 50 FT. ALONG R2 ZONE
- EXCEPT FOR APPROVED ACCESS WAYS, SIGNS AND FENCING.



AFFORDABLE HOUSING BEDROOM MIX CHART:

# OF BEDROOMS	UHAC REQUIREMENTS	PROPOSED	PROPOSED
EFFICIENCY / 1 BEDROOM	NO MORE THAN 20%	2 UNITS	18%
2 BEDROOM	AT LEAST 30%	6 UNITS	55%
3 BEDROOM	AT LEAST 20%	3 UNITS	27%
TOTAL:		11 UNITS	100%

- PLAN REFERENCES:**
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 - NJDEP FLOOD HAZARD AREA VERIFICATION PLANS PREPARED FOR HARLINGEN VILLAGE SQUARE LOTS 33, 34, 35 & 36 IN BLOCK 6001, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY PREPARED BY VAN CLEEF ENGINEERING ASSOCIATES PETER W. OLEMAN, N.J.P.E. No. 30963 DATED NOVEMBER 19, 2021, LAST REVISED AUGUST 22, 2022..

- NOTES:**
- FRESHWATER WETLANDS/WATERS BOUNDARY LINE AS VERIFIED BY NJDEP FRESHWATER WETLANDS LETTER OF INTERPRETATION: FILE NO.: 1813-03-0014.2 ACTIVITY NUMBER: FWW 190001, DATED JAN. 7, 2020.
 - AN ACCESS EASEMENT OVER ROAD "A" FOR THE APARTMENT BUILDINGS WILL BE PROVIDED.

APPLICANT AND OWNER OF LOTS 33, 34, 34.01, 35, 35.01 & 36

HARLINGEN ASSOCIATES, LLC
18 BROWN LINE
HILLSBOROUGH, NJ 08844
(908) 389-8291

DATE:	JANUARY 17, 2023
SCALE:	1"= 50'
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
DATE:	1805M
REVISIONS:	
AUTH.	
DATE:	
JOB No.	

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer,
New Jersey Lic. No. 34722

Pamela Mathews
Pamela Mathews
Professional Engineer & Land Surveyor,
New Jersey Lic. No. 41181

Van Cleef
ENGINEERING WITH FOCUS

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PHONE (908) 389-8291
CERT. OF AUTHORIZATION NO. 36628X12380

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

PRELIMINARY SUBDIVISION / SITE PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

3

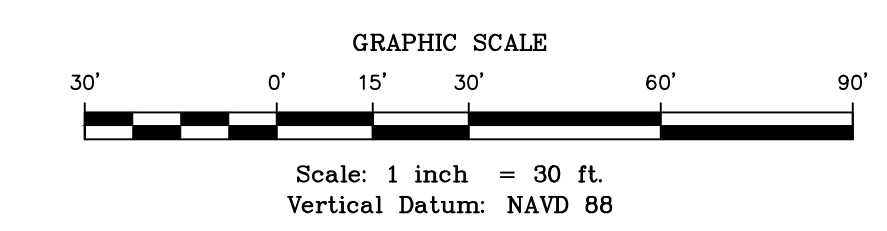


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1. ALL EXISTING SITE IMPROVEMENTS WITHIN PROPOSED LIMITS OF DISTURBANCE SHALL BE REMOVED, INCLUDING PAVEMENT, STORM DRAINAGE PIPE, STORM DRAINAGE INLETS AND LIGHTING, UNLESS SPECIFICALLY NOTED OTHERWISE HEREON.
 2. ALL AREAS WHERE EXISTING SITE IMPROVEMENTS ARE TO BE REMOVED AND NO NEW IMPROVEMENTS ARE PROPOSED, SHALL BE RESTORED WITH CLEANFILL AS MAY BE REQUIRED, TOPSOIL, SEEDS AND STABILIZED.
 3. THE USE OF LIGHTWEIGHT, LOW IMPACT EARTH MOVING EQUIPMENT FOR SITE GRADING OF ALL PROPOSED LAWN AREAS IS REQUIRED IN ORDER TO CONFORM TO THE NON-STRUCTURAL STRATEGIES POINT SYSTEM TO QUALIFY AS LIGHTWEIGHT AND LOW IMPACT. THE EQUIPMENT MUST EXERT A MAXIMUM PRESSURE OF EIGHT POUNDS PER SQUARE INCH ON THE GROUND SURFACE DURING GRADING OPERATIONS OF PROPOSED LAWN AREAS, SUCH AS OVER SIZED WIDE TRACKED EARTH MOVING EQUIPMENT, RUBBER Tired EARTH MOVING EQUIPMENT NOT ACCEPTABLE.
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 5. ALL REINFORCED CONCRETE PIPES (R.C.P.) SHALL BE CLASS II UNLESS SPECIFICALLY NOTED OTHERWISE.
 6. ALL STORM DRAINAGE INLETS AT CURBED LOCATIONS SHALL BE TYPE "B" AND TYPE "C" INLETS IN LAWN AREAS UNLESS SPECIFICALLY NOTED OTHERWISE. AT DEPRESSED CURB LOCATIONS A DEPRESSED TYPE CASTING SHALL BE UTILIZED FOR THE TYPE "B" INLET.
 7. ALL PROPOSED WATER MAINS SHALL BE MINIMUM 8" DIA CLASS 52 CEMENT LINED D.I.P. UNLESS SPECIFICALLY NOTED OTHERWISE.
 8. ROOF RUNOFF SHALL BE PRETREATED BY LEAF SCREENS, FIRST FLUSH DIVERSIFIERS OR ROOF WASHERS PER CHAPTER 10.4 OF THE NEW JERSEY BEST MANAGEMENT PRACTICES MANUAL.
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- LEGEND**
- G PROPOSED GAS MAIN
 - W PROPOSED WATER MAIN
 - S PROPOSED SEWER MAIN
 - SL PROPOSED SEWER LATERAL
 - SD PROPOSED STORM DRAIN
 - FM PROPOSED FORCE MAIN SEWER
 - FW FLOODWAY LIMIT LINE
 - FH FLOOD HAZARD AREA LIMIT
 - 100' MONTGOMERY TWP. BUFFER
 - RZL RIPARIAN ZONE LIMIT
 - WBL WETLAND BUFFER LINE
 - PROPOSED CONTOURS
 - EXISTING CONTOURS
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - LIMIT OF WORK
 - WETLANDS DELINEATION LINE W/FLAGS
 - PROPOSED INLET
 - PROPOSED WATER VALVE
 - PROPOSED MANHOLE
 - DC PROPOSED DEPRESSED CURB
 - FC PROPOSED FLUSH CURB
 - FF PROPOSED FIRST FLOOR ELEVATION
 - GF PROPOSED GARAGE FLOOR ELEVATION
 - NON EXCLUSIVE UTILITY EASEMENT
 - EXCLUSIVE (N.J.A.C.) WATER EASEMENT
 - WETLAND AREAS

- GENERAL NOTES**
1. CONTRACTOR SHALL SUBMIT WRITTEN NOTIFICATION TO THE SOMERSET TOWNSHIP SOIL CONSERVATION DISTRICT 48 HOURS PRIOR TO THE START OF CONSTRUCTION. PHONE # 908-526-2701.
 2. CONTRACTOR SHALL SUBMIT WRITTEN NOTIFICATION TO THE DELAWARE AND RARITAN CANAL COMMISSION 30 DAYS PRIOR TO THE START OF CONSTRUCTION. PHONE # 609-397-1000.
 3. IN ACCORDANCE WITH THE TOWNSHIP CODE, SECTION 16-5.6, NO SOIL SHALL BE REMOVED FROM OR BE IMPORTED TO THE SITE IN EXCESS OF TWENTY (20) CUBIC YARDS PER YEAR WITHOUT THE PRIOR APPROVAL OF THE PLANNING BOARD. THEREFORE, THE APPLICANT SHALL BE REQUIRED TO RETURN TO THE PLANNING BOARD FOR APPROVAL OF A SOIL IMPORT/EXPORT PLAN PRIOR TO COMMENCING SUCH ACTIVITY.
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 5. PRIOR TO SITE DISTURBANCE, THE PROPOSED LIMITS OF DISTURBANCE ARE TO BE FIELD LOCATED AND STAKED. THE TOWNSHIP ENGINEER AND TOWNSHIP LANDSCAPE ARCHITECT SHALL HAVE AUTHORITY TO MODIFY THE FINAL LOCATION IN ORDER TO PRESERVE EXISTING VEGETATION AND/OR CRITICAL AREAS.

6. NO PRIVATELY OWNED ABOVE GROUND OR BELOW GROUND IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING AND LAWN SPRINKLER SYSTEMS, MAY BE INSTALLED WITHIN THE STREET RIGHT-OF-WAY, EXCEPT WALKWAYS IN ACCORDANCE WITH POST OFFICE REGULATIONS, WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE MONTGOMERY TOWNSHIP ENGINEER.
7. ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
8. ALL EXISTING UTILITIES VERTICAL AND HORIZONTAL LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF THE CONSTRUCTION. UNLESS REQUIRED OTHERWISE BY UTILITY COMPANIES, THE APPLICANT SHALL NOT LOCATE ANY OUTSIDE METERS AND OTHER MECHANICALS IN FRONT OF ANY TOWNHOUSE BUILDING.



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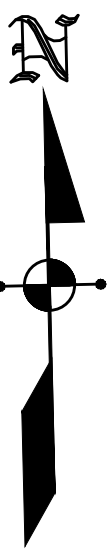
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CERT. OF AUTHORIZATION NO. 26620121000

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GRADING PLAN - NORTH

PREPARED FOR
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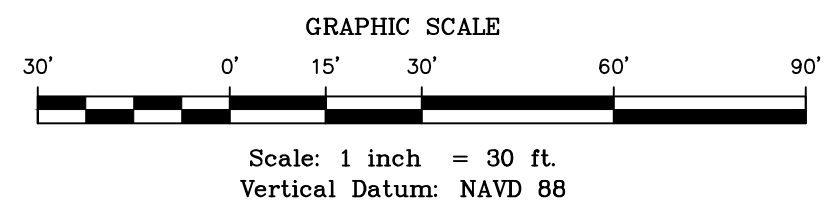
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 - PROPOSED WATER MAIN
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 - WETLAND BUFFER COMPENSATION

- GENERAL NOTES**
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 3. IN ACCORDANCE WITH THE TOWNSHIP CODE, SECTION 16-5.6: NO SOIL SHALL BE REMOVED FROM OR BE IMPORTED TO THE SITE IN EXCESS OF TWENTY (20) CUBIC YARDS PER YEAR WITHOUT THE PRIOR APPROVAL OF THE PLANNING BOARD. THEREFORE, THE APPLICANT SHALL BE REQUIRED TO RETURN TO THE PLANNING BOARD FOR APPROVAL OF A SOIL IMPORT/EXPORT PLAN PRIOR TO COMMENCING SUCH ACTIVITY. ALL FILL AND OTHER EARTH WORK ON THE PROJECT LANDS SHALL BE STABILIZED IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, OBTAINABLE FROM LOCAL SOIL CONSERVATION DISTRICT OFFICE OR CIVIL ENGINEERING SPECIFICATIONS TO PREVENT ERODED SOIL FROM ENTERING ADJACENT WATERWAYS AT ANY TIME DURING AND SUBSEQUENT TO CONSTRUCTION. (SEE "SOIL EROSION SEDIMENT CONTROL DETAIL SHEET").
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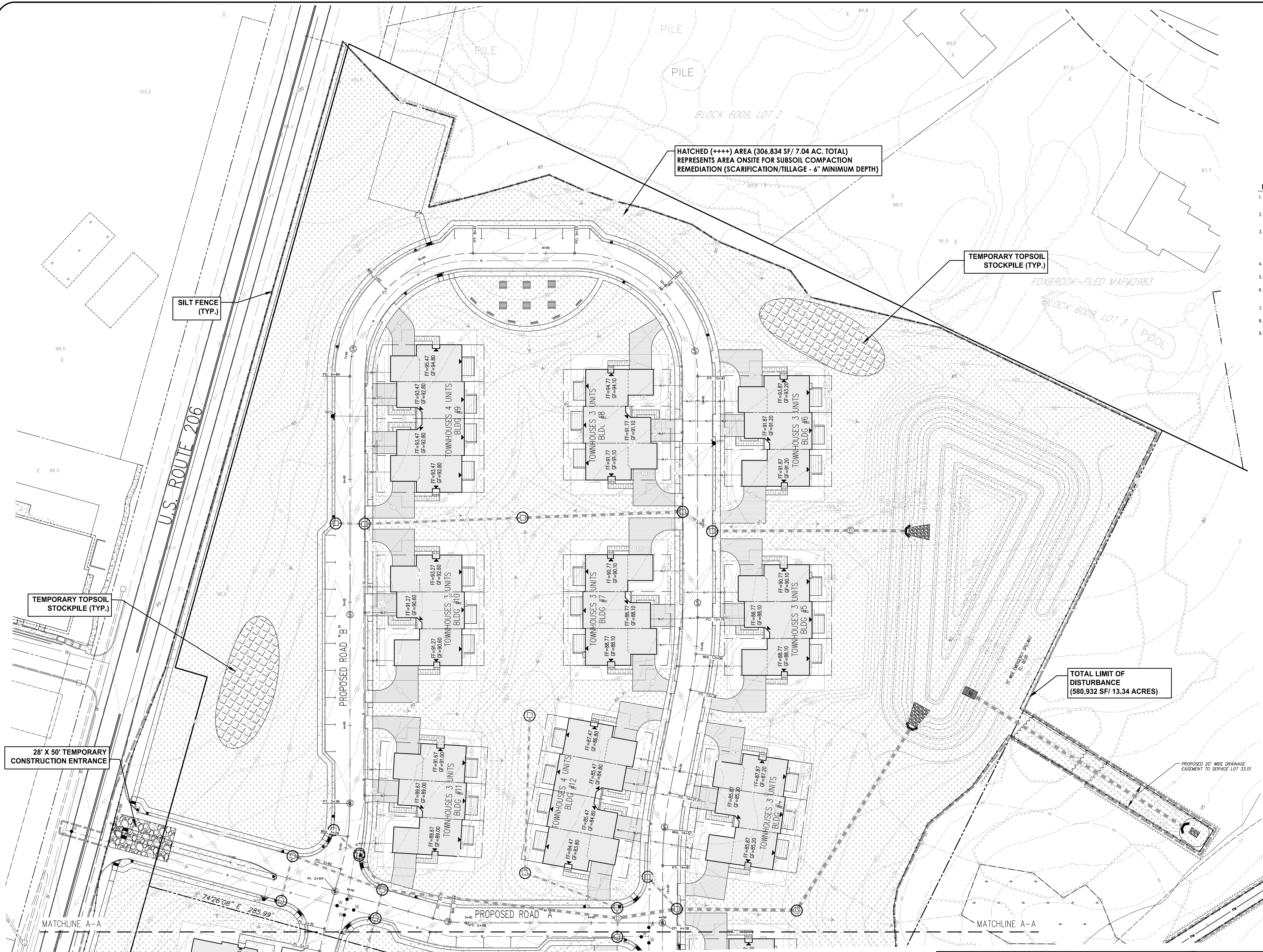
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GRADING PLAN - SOUTH
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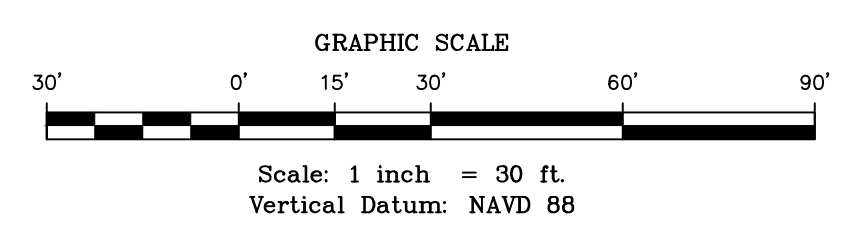
F:\JOBFILES\1805M_ENG\DWG\HARLINGEN VILLAGE PLAN SET (8-18-23)\1805M_04_06_12\UTILITY-GRADING-BASIN-RAMP).DWG



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 - NON EXCLUSIVE UTILITY EASEMENT
 - EXCLUSIVE (N.J.A.C.) WATER EASEMENT
 - WETLAND BUFFER COMPENSATION
 - TEMPORARY TOPSOIL STOCK PILE
 - TEMPORARY CONSTRUCTION ENTRANCE
 - SUBSOIL COMPACTION REMEDIATION AREA
 - WETLAND AREAS

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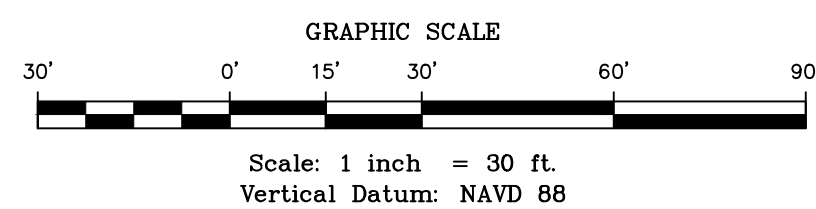
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- PROPOSED TREELINE
- LIMIT OF WORK
- WETLANDS DELINEATION LINE W/FLAHS
- PROPOSED INLET
- PROPOSED WATER VALVE
- PROPOSED MANHOLE
- PROPOSED DEPRESSED CURB
- PROPOSED FLUSH CURB
- PROPOSED FIRST FLOOR ELEVATION
- PROPOSED GARAGE FLOOR ELEVATION
- NON EXCLUSIVE UTILITY EASEMENT
- EXCLUSIVE (N.J.A.W.) WATER EASEMENT
- WETLAND BUFFER COMPENSATION
- TEMPORARY TOPSOIL STOCK PILE
- TEMPORARY CONSTRUCTION ENTRANCE
- SUBSOIL COMPACTION REMEDIATION AREA
- WETLAND AREAS

GENERAL NOTES

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2. CONTRACTOR SHALL SUBMIT WRITTEN NOTIFICATION TO THE DELAWARE AND RARITAN CANAL COMMISSION 30 DAYS PRIOR TO THE START OF CONSTRUCTION. PHONE # 800-397-1000.
3. IN ACCORDANCE WITH THE TOWNSHIP CODE, SECTION 16-5.6, NO SOIL SHALL BE REMOVED FROM OR BE IMPORTED TO THE SITE IN EXCESS OF TWENTY (20) CUBIC YARDS PER YEAR WITHOUT THE PRIOR APPROVAL OF THE PLANNING BOARD. THEREFORE, THE APPLICANT SHALL BE REQUIRED TO RETURN TO THE PLANNING BOARD FOR APPROVAL OF A SOIL IMPORT/EXPORT PLAN PRIOR TO COMMENCING SUCH ACTIVITY.
4. ALL FILL AND OTHER EARTH WORK ON THE PROJECT LANDS SHALL BE STABILIZED IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, OBTAINABLE FROM LOCAL SOIL CONSERVATION DISTRICT OFFICE OR CIVIL ENGINEERING SPECIFICATIONS TO PREVENT ERODED SOIL FROM ENTERING ADJACENT WATERWAYS AT ANY TIME DURING AND SUBSEQUENT TO CONSTRUCTION. (SEE "SOIL EROSION SEDIMENT CONTROL DETAIL SHEET").
5. PRIOR TO SITE DISTURBANCE THE PROPOSED LIMITS OF DISTURBANCE ARE TO BE FIELD LOCATED AND STAKED. THE TOWNSHIP ENGINEER AND TOWNSHIP LANDSCAPE ARCHITECT SHALL HAVE AUTHORITY TO MODIFY THE FINAL LOCATION IN ORDER TO PRESERVE EXISTING VEGETATION AND/OR CRITICAL AREAS.
6. NO PRIVATELY OWNED ABOVE GROUND OR BELOW GROUND IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING AND LAWN SPRINKLER SYSTEMS, MAY BE INSTALLED WITHIN THE STREET RIGHT-OF-WAY, EXCEPT WALKWAYS IN ACCORDANCE WITH POST OFFICE REGULATIONS, WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE MONTGOMERY TOWNSHIP ENGINEER.
7. ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
8. ALL EXISTING UTILITIES VERTICAL AND HORIZONTAL LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF THE CONSTRUCTION, UNLESS REQUIRED OTHERWISE BY UTILITY COMPANY. THE APPLICANT SHALL NOT LOCATE ANY OUTSIDE METERS AND OTHER MECHANICALS IN FRONT OF ANY TOWNHOUSE BUILDING.

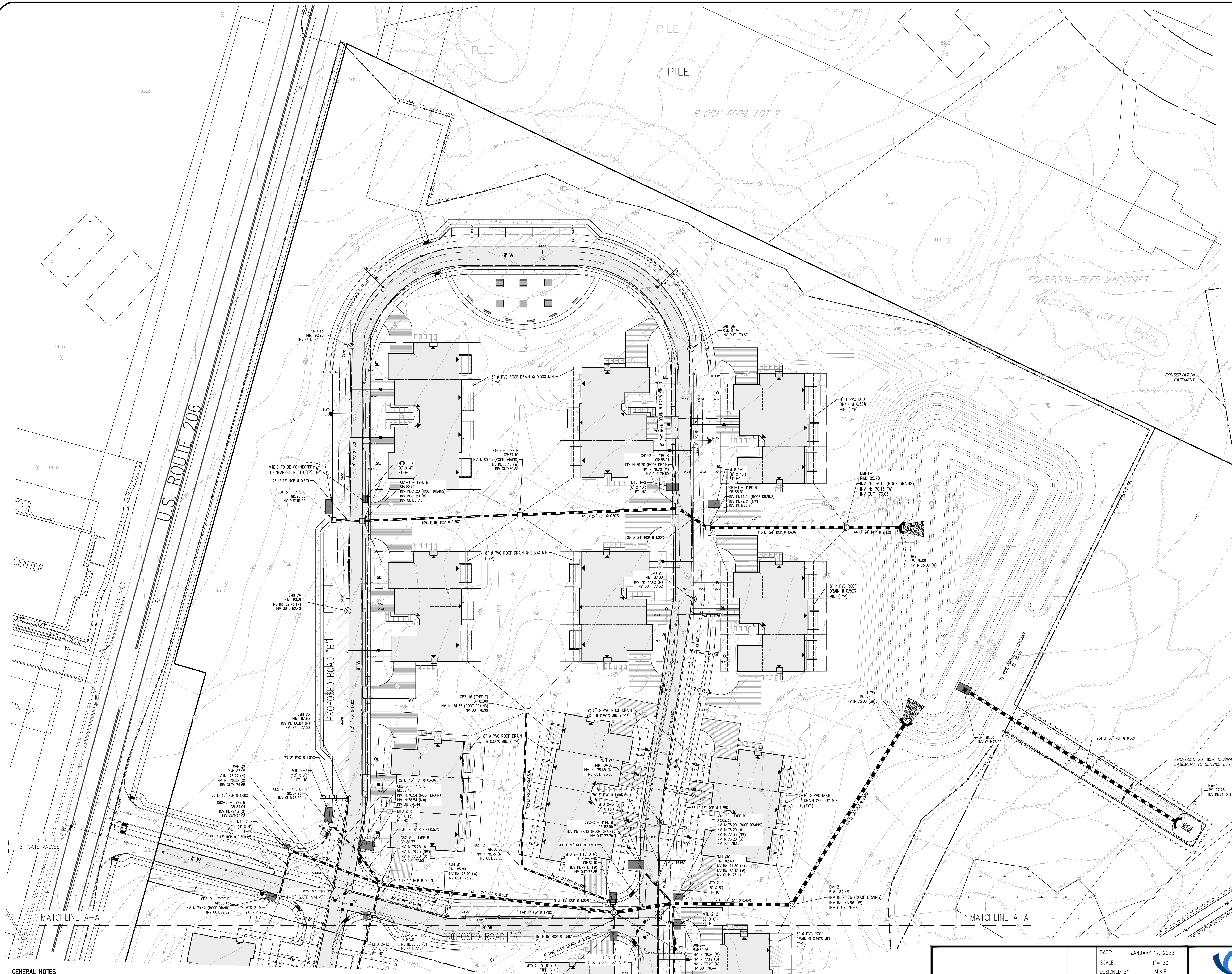


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REVISIONS	AUTH.	JOB No.	18-05-M

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722



SOIL EROSION & SEDIMENT CONTROL PLAN - SOUTH
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY



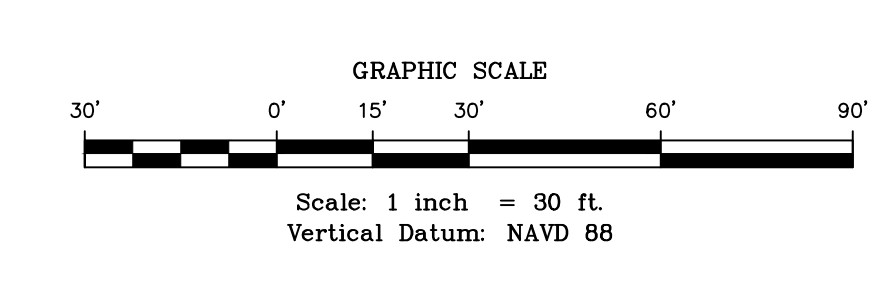
- NOTES:**
1. ALL EXISTING SITE IMPROVEMENTS WITHIN PROPOSED LIMITS OF DISTURBANCE SHALL BE REMOVED, INCLUDING PAVEMENT, STORM DRAINAGE PIPE, STORM DRAINAGE INLETS AND LIGHTING, UNLESS SPECIFICALLY NOTED OTHERWISE HEREON.
 2. ALL AREAS WHERE EXISTING SITE IMPROVEMENTS ARE TO BE REMOVED AND NO NEW IMPROVEMENTS ARE PROPOSED, SHALL BE RESTORED WITH CLEANFILL AS MAY BE REQUIRED, TOPSOIL, SEEDING AND STABILIZED.
 3. THE USE OF LIGHTWEIGHT, LOW IMPACT EARTH MOVING EQUIPMENT FOR SITE GRADINGS OF ALL PROPOSED LAWN AREAS IS REQUIRED IN ORDER TO CONFORM TO THE NON-STRUCTURAL STRATEGIES POINT SYSTEM. TO QUALIFY AS LIGHTWEIGHT AND LOW IMPACT, THE EQUIPMENT MUST EXERT A MAXIMUM PRESSURE OF EIGHT POUNDS PER SQUARE INCH ON THE GROUND SURFACE DURING GRADING OPERATIONS OF PROPOSED LAWN AREAS, SUCH AS OVER SIZED WED TRACKED EARTH MOVING EQUIPMENT, RUBBER Tired EARTH MOVING EQUIPMENT NOT ACCEPTABLE.
 4. PIPE LENGTHS AND SLOPE SHOWN BASED ON CENTER TO CENTER OF STRUCTURES.
 5. ALL REINFORCED CONCRETE PIPES (R.C.P.) SHALL BE CLASS II UNLESS SPECIFICALLY NOTED OTHERWISE.
 6. ALL STORM DRAINAGE INLETS AT CURBED LOCATIONS SHALL BE TYPE "B" AND TYPE "T" INLETS IN LAWN AREAS UNLESS SPECIFICALLY NOTED OTHERWISE. AT DEPRESSED CURB LOCATIONS A DEPRESSED TYPE CASTING SHALL BE UTILIZED FOR THE TYPE "B" INLET.
 7. ALL PROPOSED WATER MAINS SHALL BE MINIMUM 8" DIA CLASS 52 CEMENT LINED D.I.P. UNLESS SPECIFICALLY NOTED OTHERWISE.
 8. ROOF RUNOFF SHALL BE PRETREATED BY LEAF SCREENS, FIRST FLUSH DIVERSERS OR ROOF WISHERS PER CHAPTER 10.4 OF THE NEW JERSEY BEST MANAGEMENT PRACTICES MANUAL.
 9. MANUFACTURED TREATMENT DEVICES SHALL BE INSTALLED TO TREAT THE RUNOFF THAT IS DRAINED BY THE FOLLOWING CATCH BASINS (SEE DETAILS ON SHEET 14).

LEGEND

— G —	PROPOSED GAS MAIN
— W —	PROPOSED WATER MAIN
— S —	PROPOSED SEWER MAIN
— WLAT —	PROPOSED WATER LATERAL
— SL —	PROPOSED SEWER LATERAL
— SD —	PROPOSED STORM DRAIN
— FM —	PROPOSED FORCE MAIN SEWER
— FH —	FLOOD HAZARD AREA LIMIT
—	100' MONTGOMERY TWP. BUFFER
— RZL —	RIPARIAN ZONE LIMIT
— WB —	WETLAND BUFFER LINE
—	PROPOSED CONTOURS
—	EXISTING CONTOURS
—	PROPOSED TREELINE
—	EXISTING TREELINE
—	LIMIT OF WORK
—	WETLANDS DELINEATION LINE W/FLAGS
—	PROPOSED INLET
—	PROPOSED WATER VALVE
—	PROPOSED MANHOLE
—	PROPOSED MECHANICAL TREATMENT DEVICE
—	NON EXCLUSIVE UTILITY EASEMENT
—	EXCLUSIVE (N.J.A.C.) WATER EASEMENT
—	WETLAND AREAS

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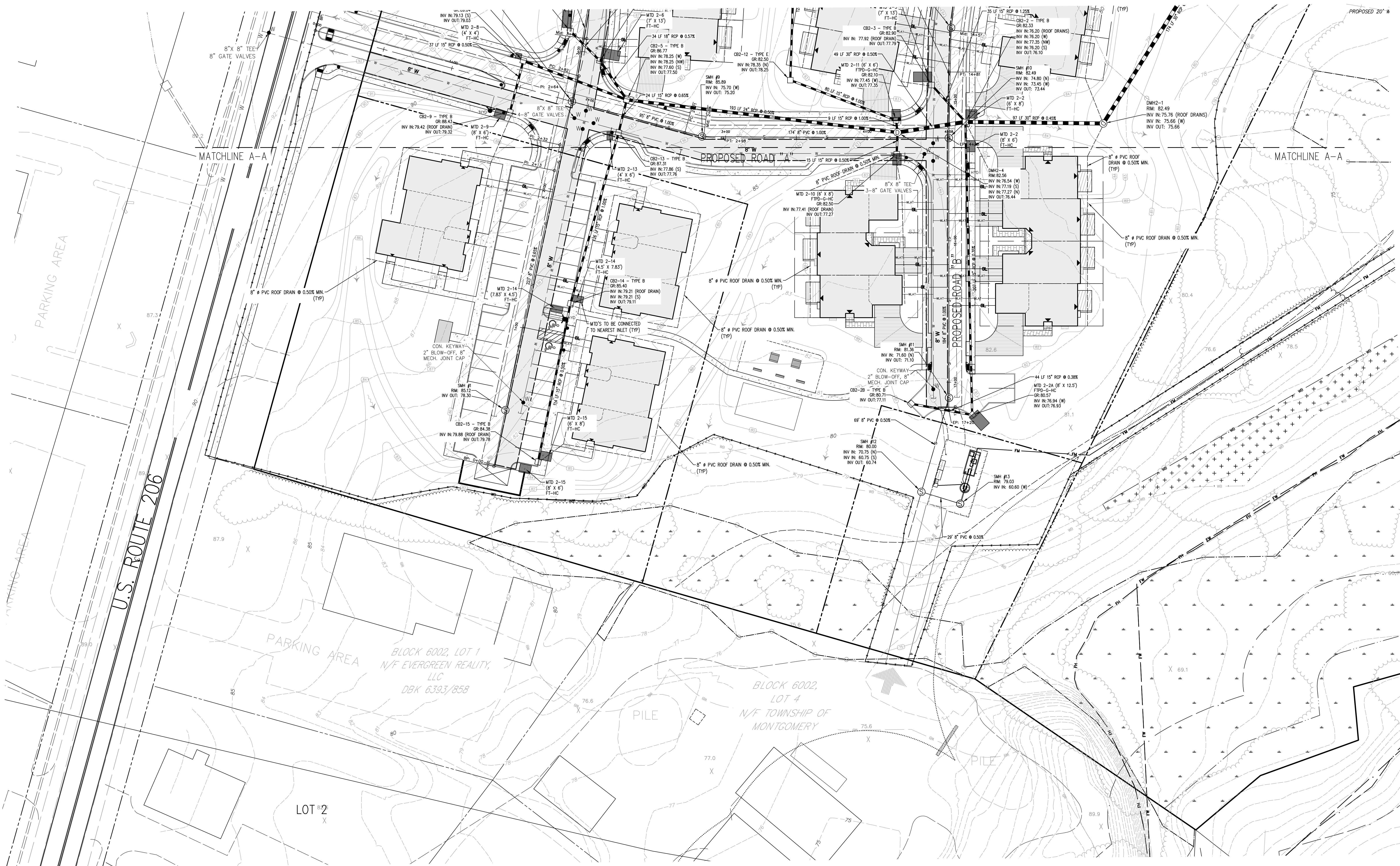
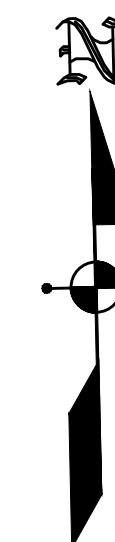


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Van Cleeef
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWN LANE, HILLSBOROUGH, NJ 08044
WWW.VANCLEEFENGINEERING.COM
PHONE (609) 528-5201
CMT # OF AUTHORIZATION NO. 266201122 000

UTILILITY PLAN - NORTH
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
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SOMERSET COUNTY, NEW JERSEY

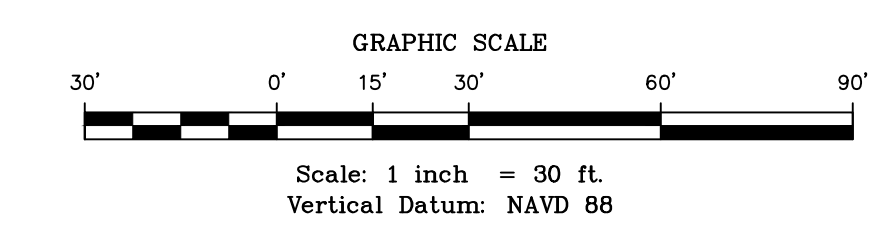


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 - PROPOSED SEWER MAIN
 - PROPOSED SEWER LATERAL
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 - PROPOSED FORCE MAIN SEWER
 - FLOODWAY LIMIT LINE
 - FLOOD HAZARD AREA LIMIT
 - 100' MONTGOMERY TWP. BUFFER
 - RIPARIAN ZONE LIMIT
 - WETLAND BUFFER LINE (EXISTING)
 - WETLAND BUFFER LINE (PROPOSED)
 - PROPOSED CONTOURS
 - EXISTING CONTOURS
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - LIMIT OF WORK
 - WETLANDS DELINEATION LINE W/FLAGS
 - PROPOSED INLET
 - PROPOSED WATER VALVE
 - PROPOSED MANHOLE
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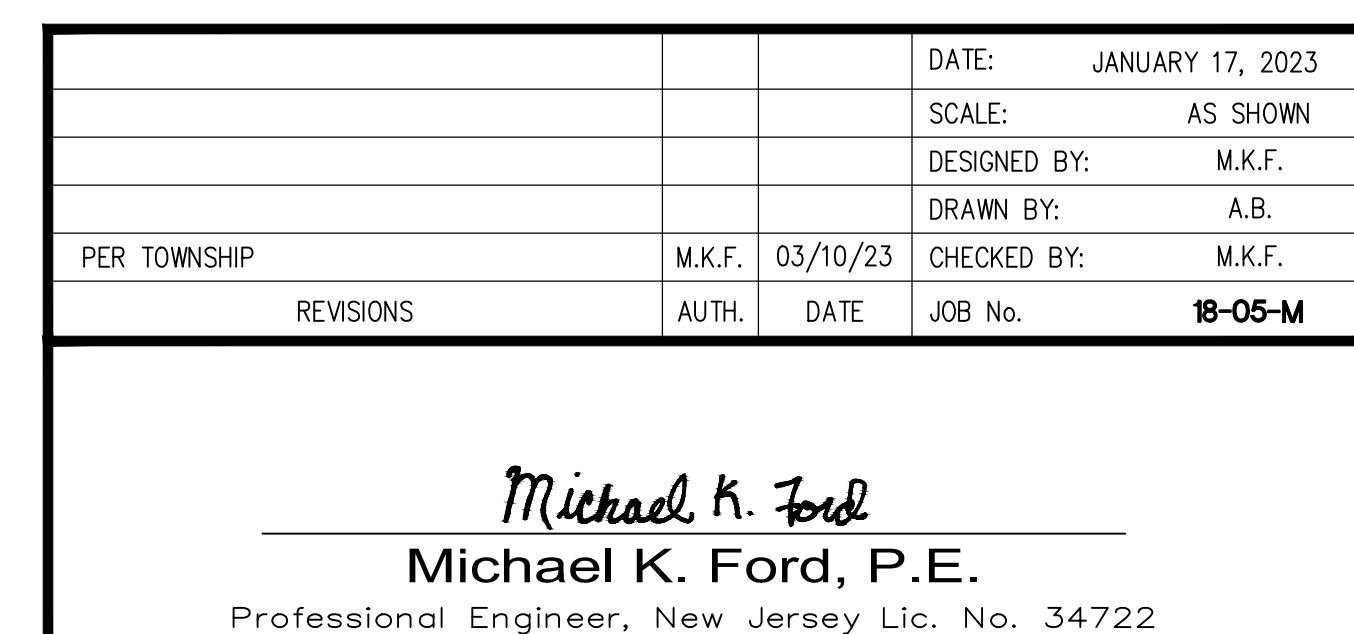
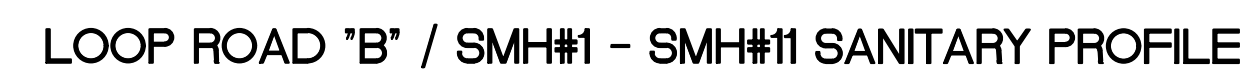
Van Clee
ENGINEERING WITH FOCUS

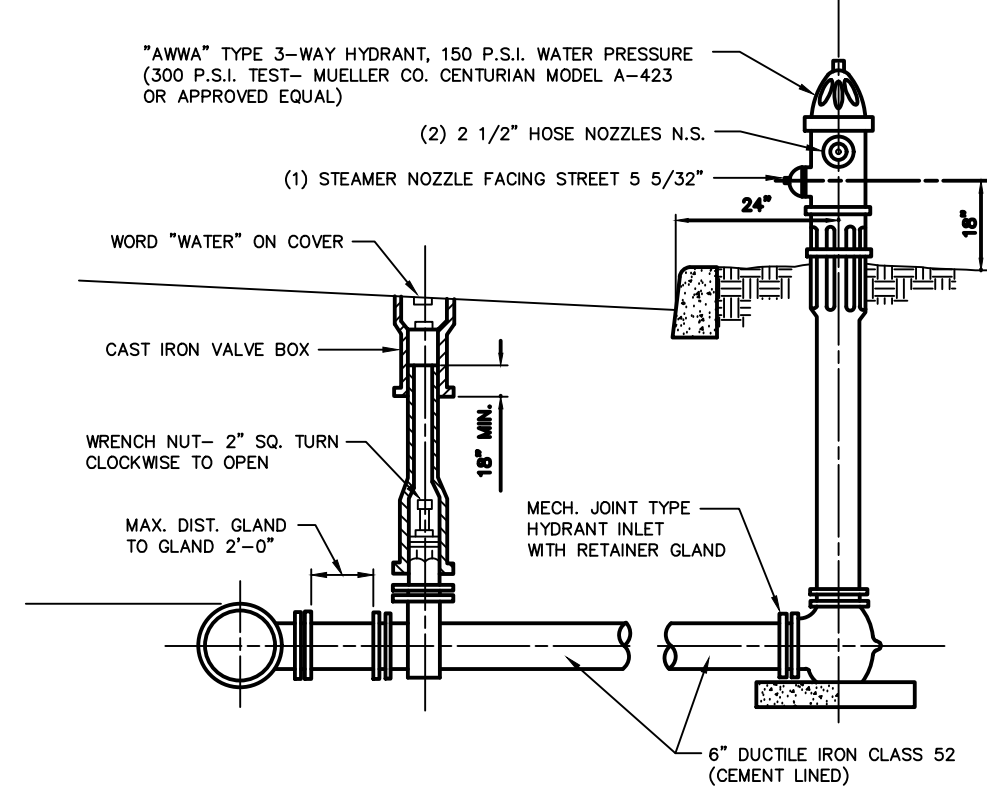
VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROADWAY LAUREL HILLSBOROUGH, NJ 08804
WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 528-5201
CERT. OF AUTHORIZATION NO. 26662151200

UTILITY PLAN - SOUTH
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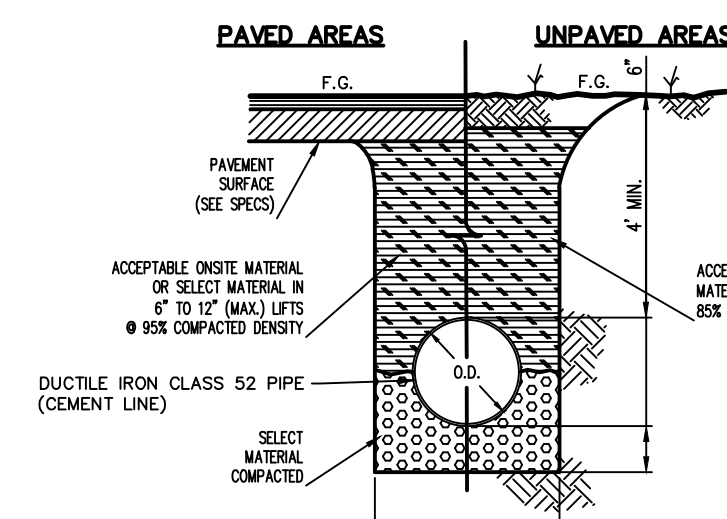
Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

9

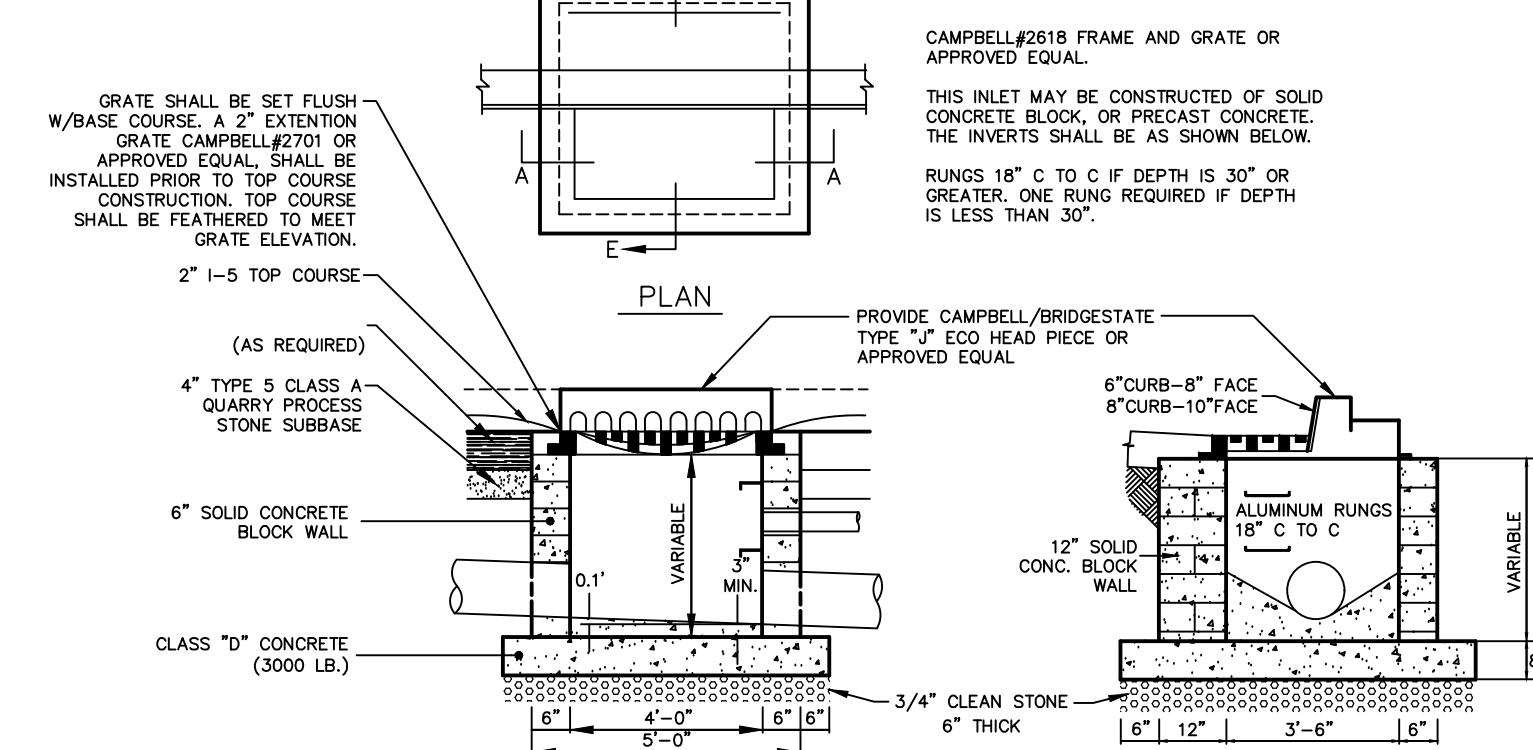




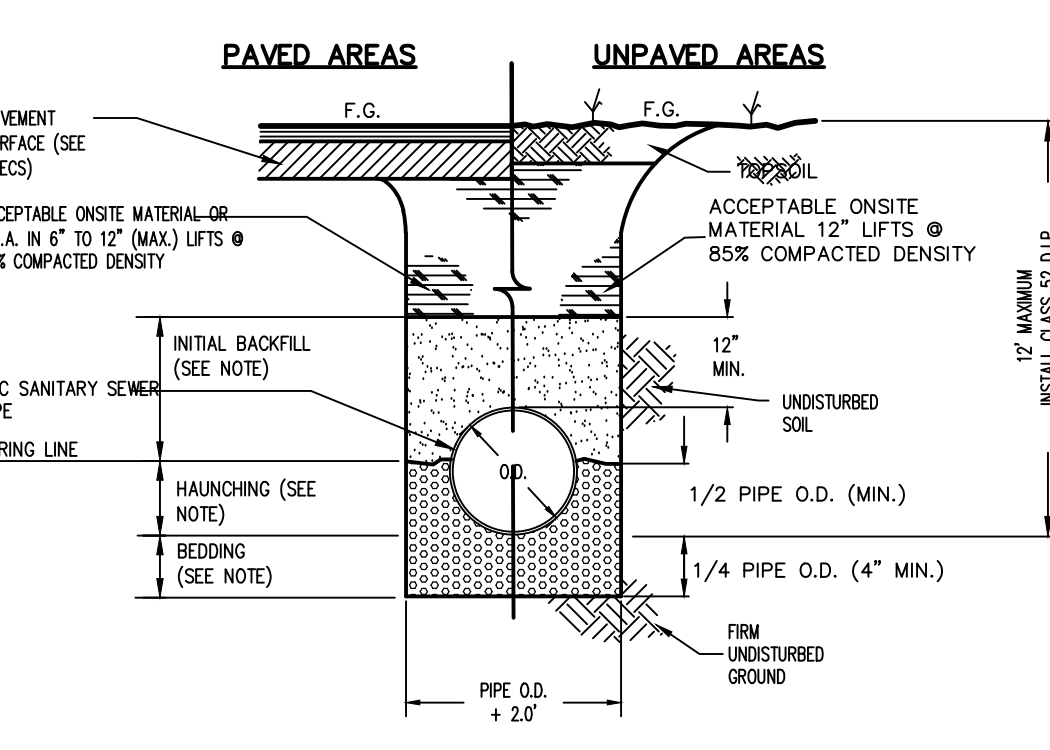
TYPICAL HYDRANT INSTALLATION



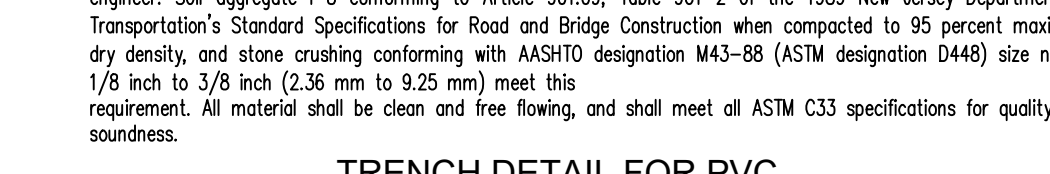
TRENCH DETAIL FOR D.I.P. WATER MAIN TYPE II W/ BEDDING



DRAINAGE INLET TYPE B' WITH C.I. CURB PIECE-RACK-FRAME AND GRATE



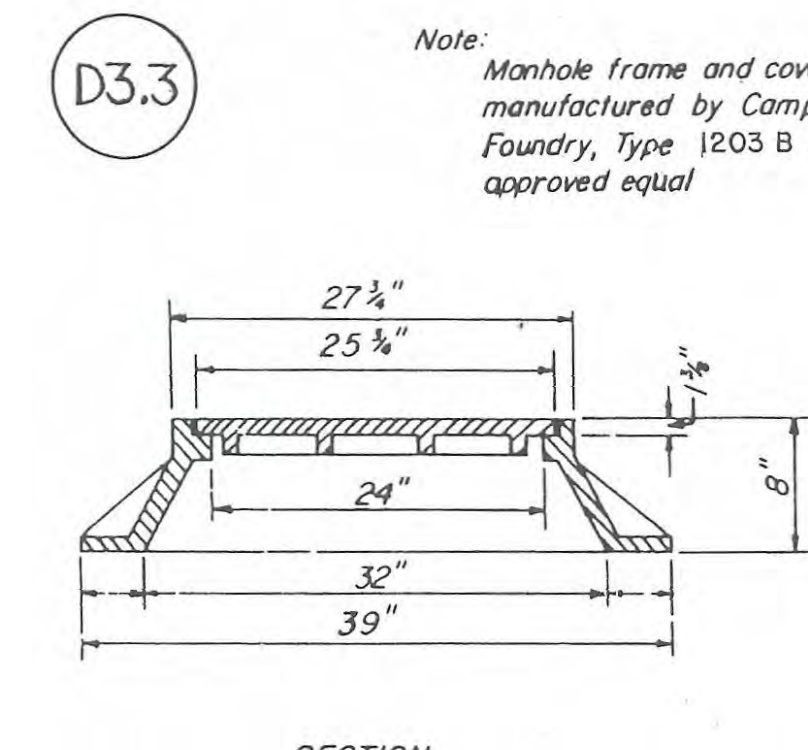
PAVED AREAS UNPAVED AREAS



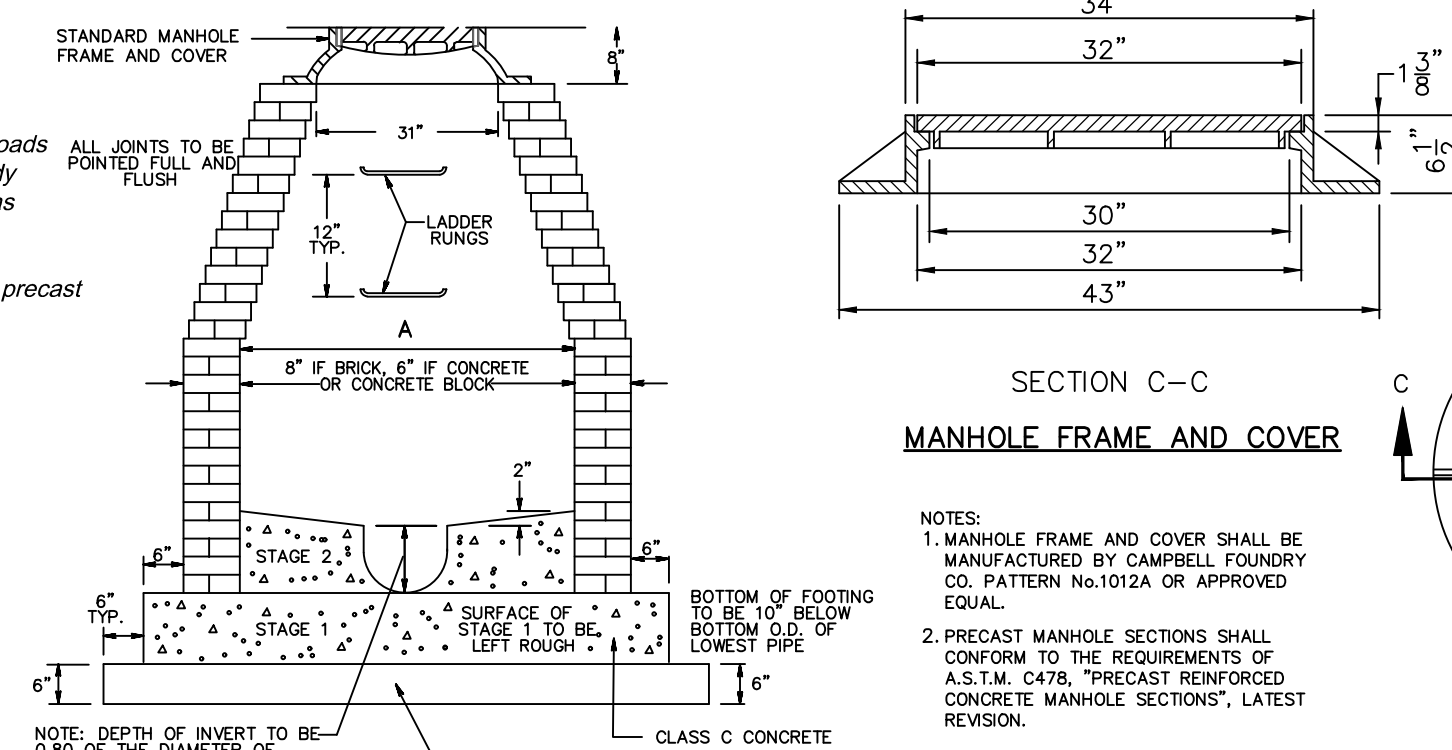
TRENCH DETAIL FOR PVC GRAVITY SANITARY SEWER PIPE

GENERAL NOTES FOR P.V.C. SEWER CONSTRUCTION

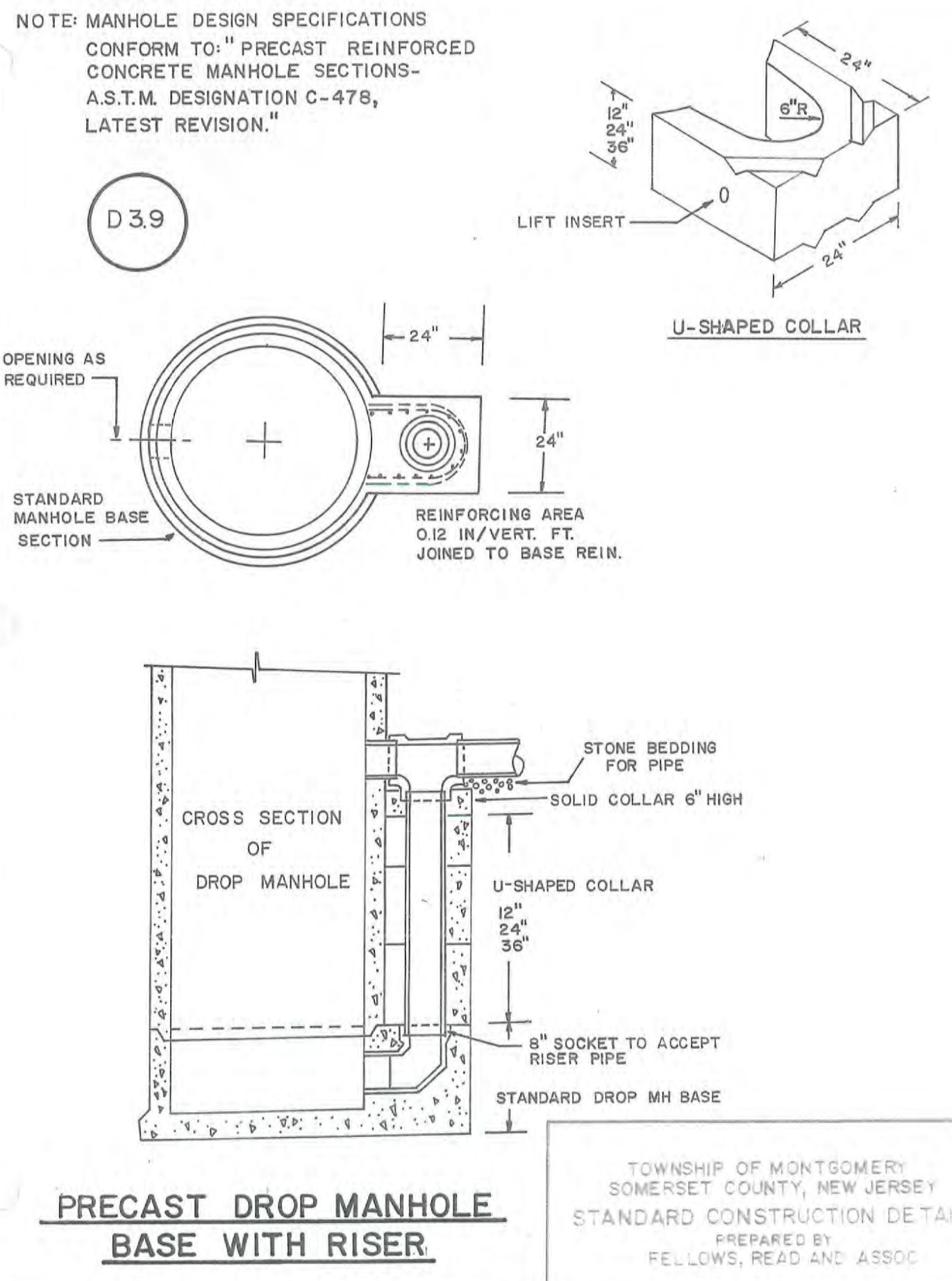
1. All 6" PVC pipe and fittings shall be SDR 35 and shall conform to ASTM-D3034. The poly vinyl chloride compounds for pipe shall have a call classification of 12454-B or 1304-B (with minimum tensile modulus of 500.00 psi) as defined in ASTM-D7794. Maximum lengths of pipe shall be thirteen (13) feet.
2. Pipe joints shall be integral bell gasketed joints which when assembled, form a positive seal. The joints shall be designed in accordance with ASTM-D3211 and the lubricant used for assembly shall be as provided or recommended by the pipe manufacturer and shall have no detrimental effect on the gasket or the pipe.
3. All fittings including wyes and tees and pipe lubricant shall be made by the same manufacturer as the sewer main pipe.
4. In addition to air testing, a mandrel test will be performed to insure that a no greater than 5% deflection has occurred in the sewer main. Deflections greater than 5% will require the removal and reinstallation of the section of pipe failing the test.



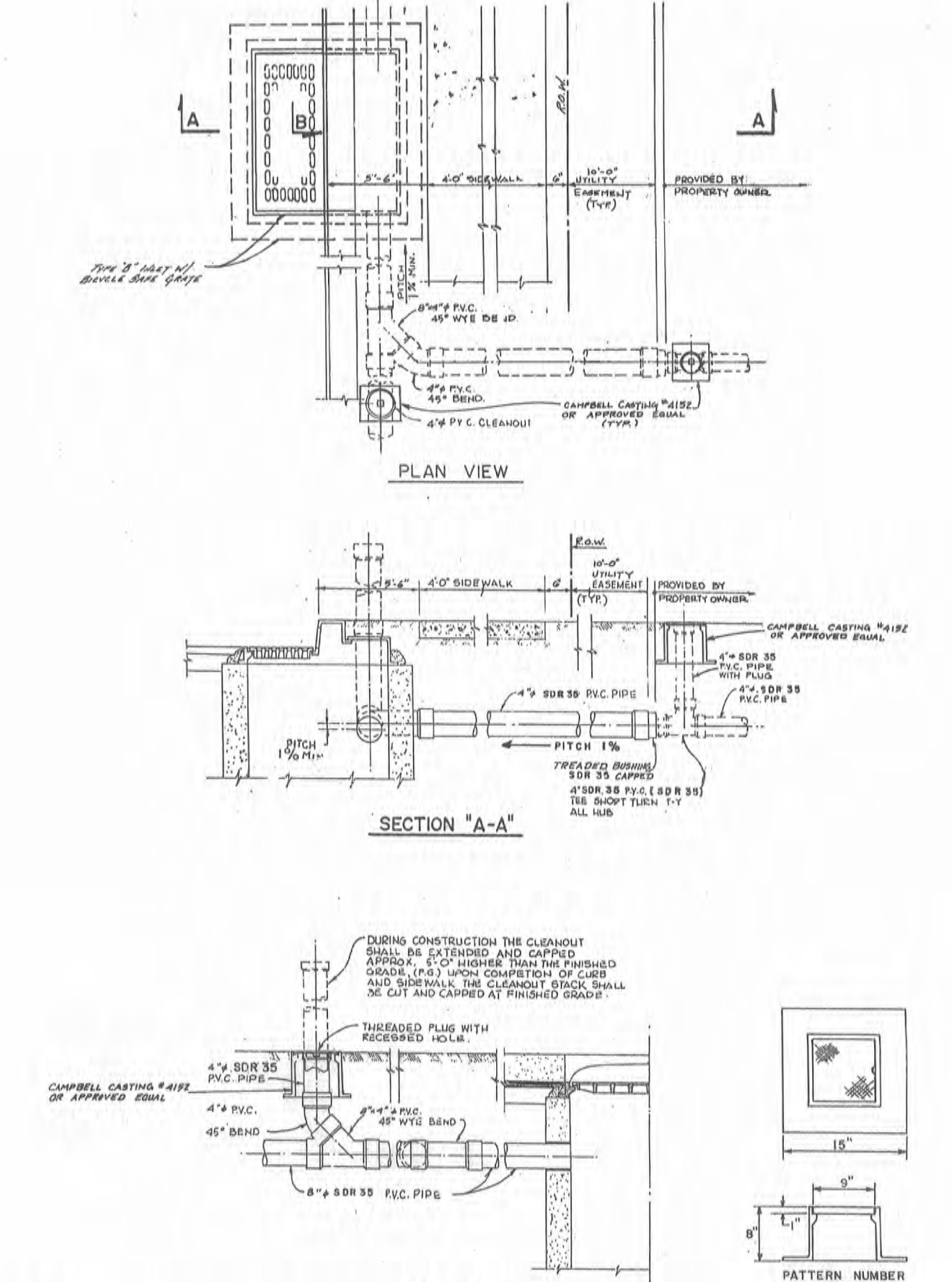
MANHOLE FRAME AND COVER



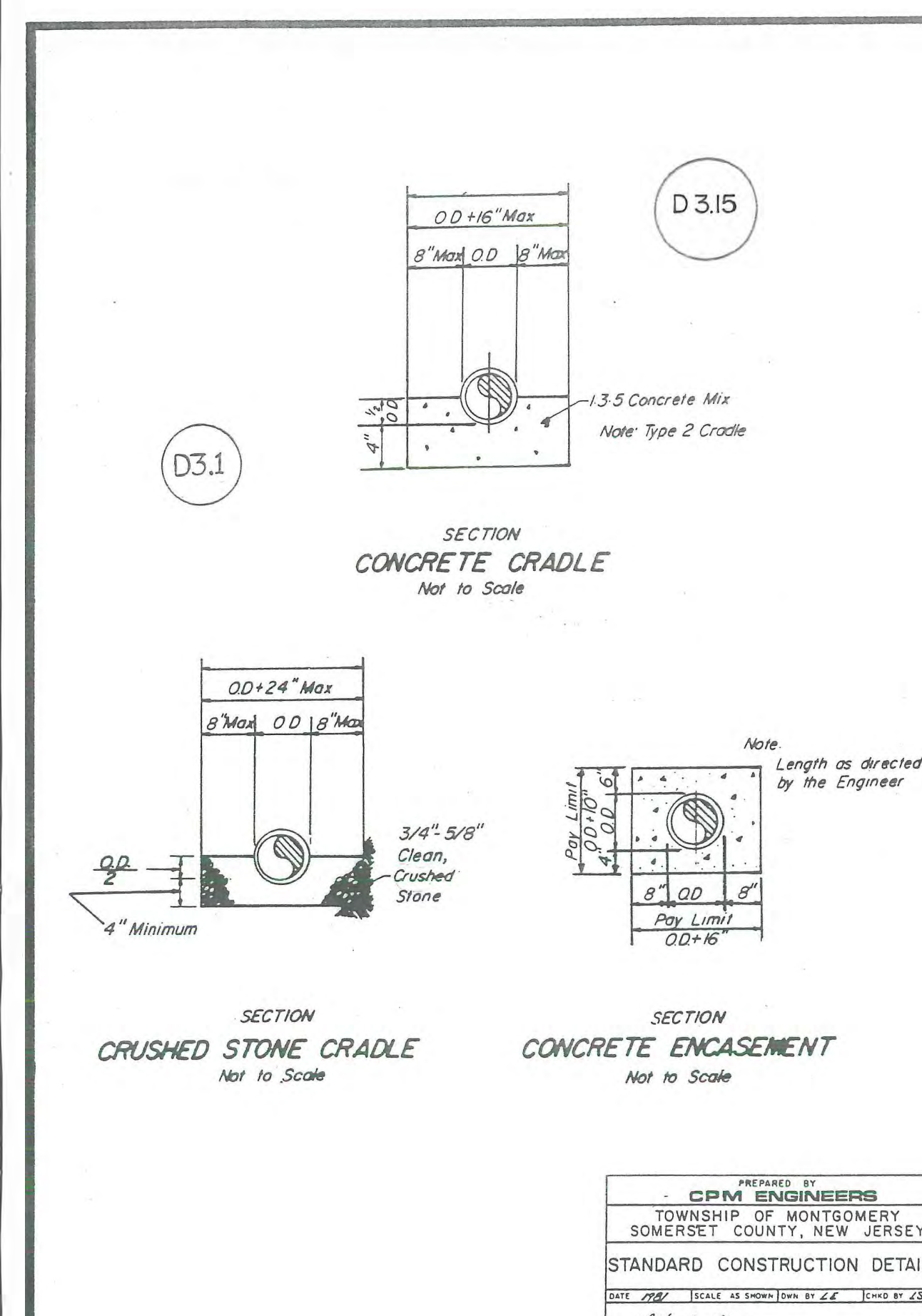
MANHOLE FRAME AND COVER



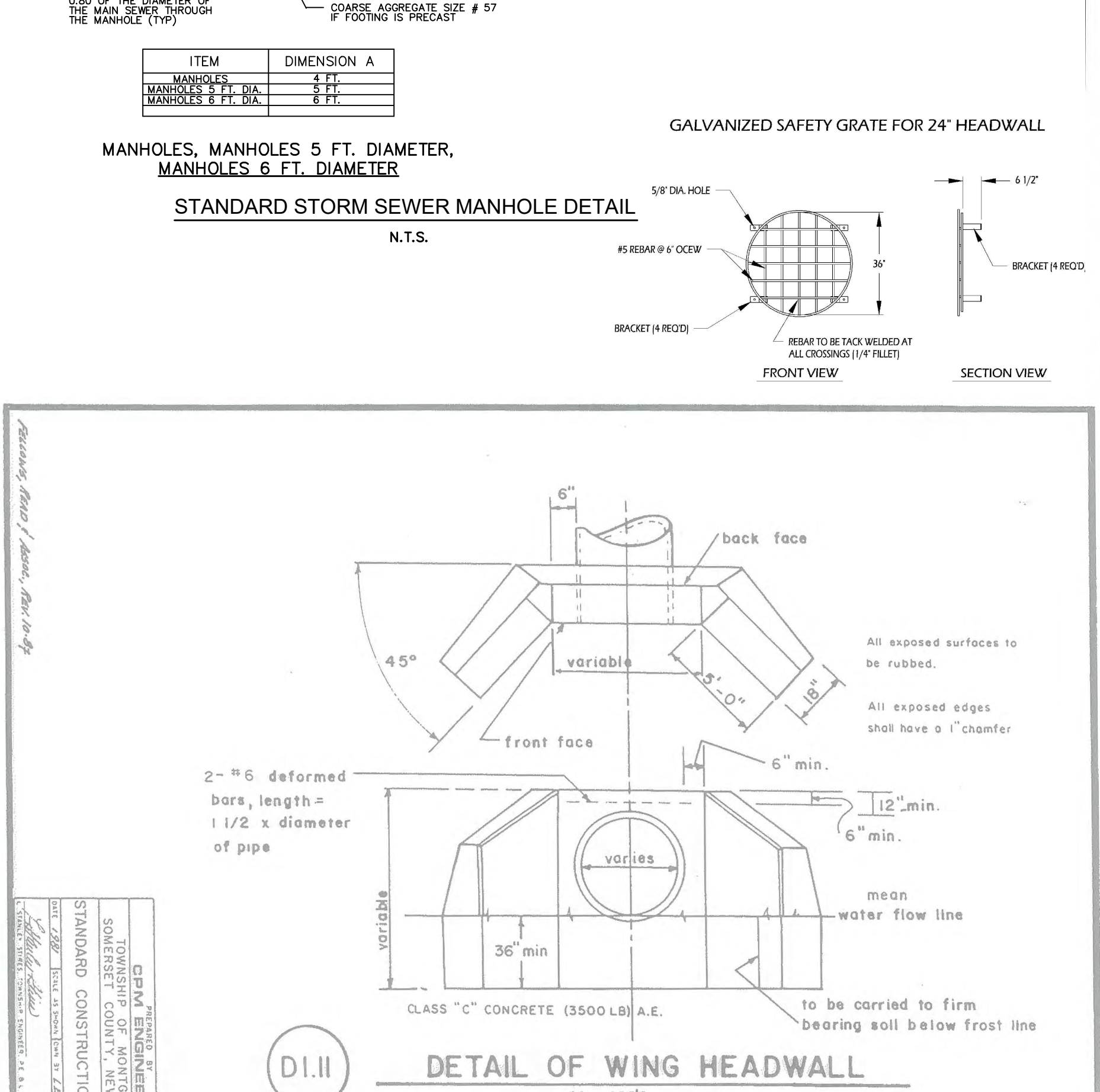
PRECAST DROP MANHOLE BASE WITH RISER



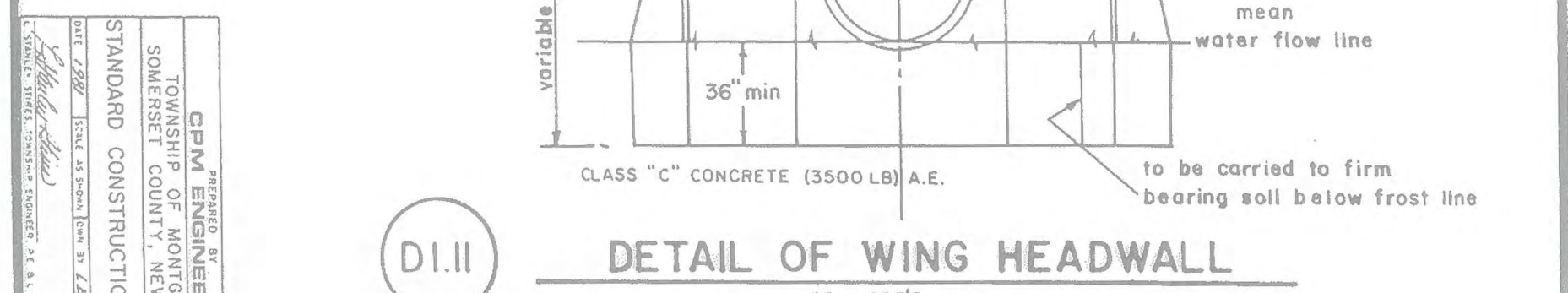
DRAINAGE DISCHARGE HEADER DETAIL



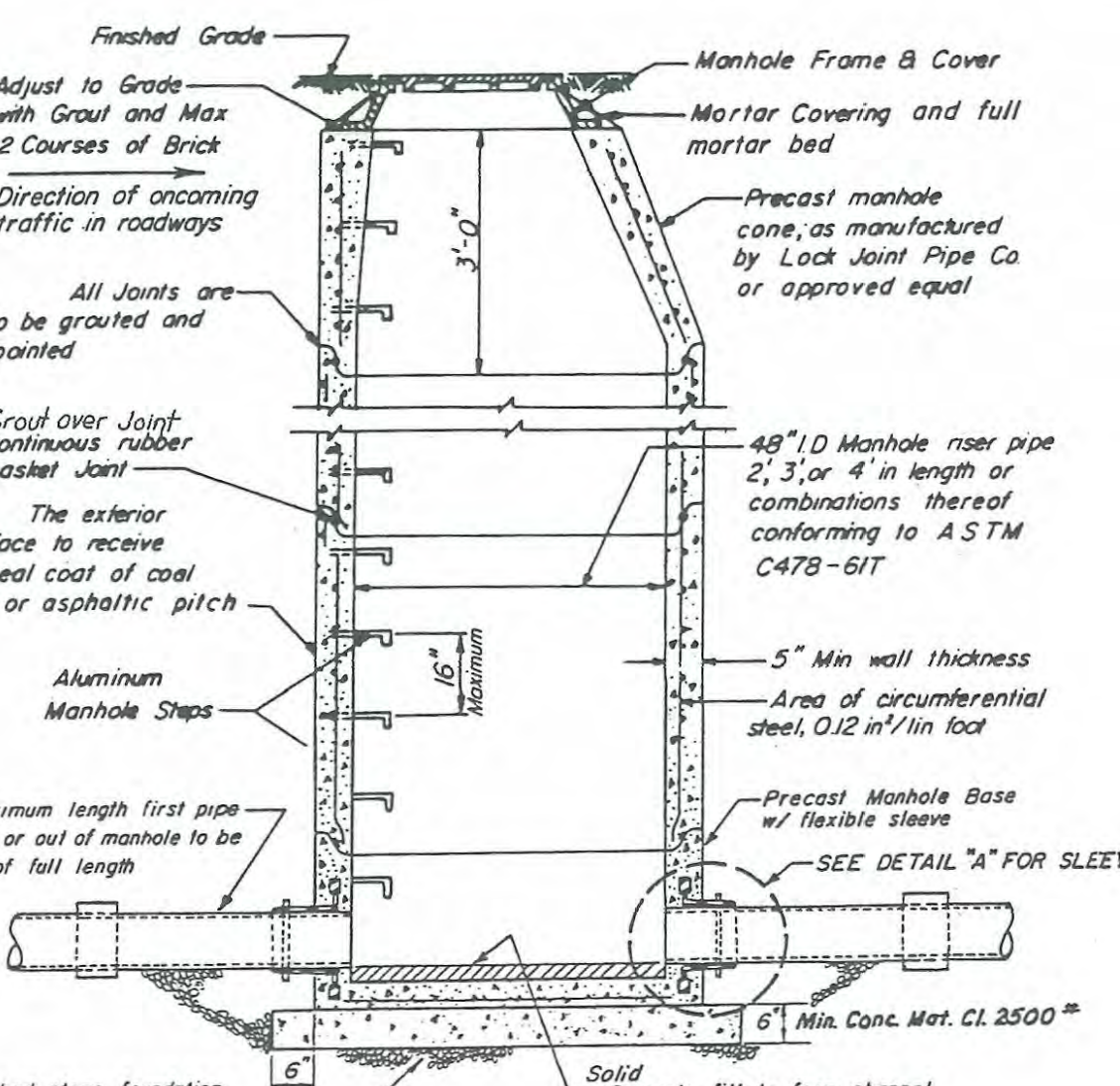
CONCRETE CRADLE



STANDARD STORM SEWER MANHOLE DETAIL

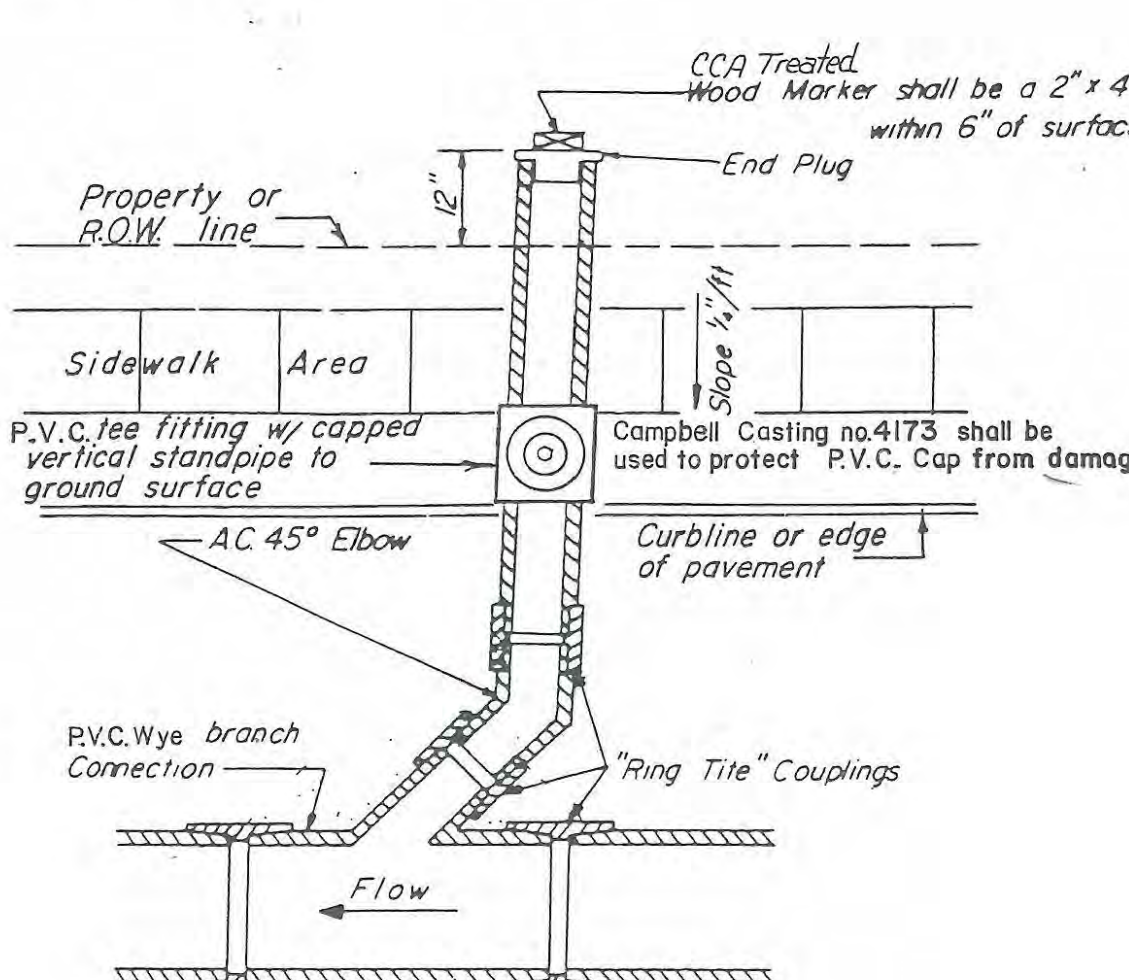


DETAIL OF WING HEADWALL

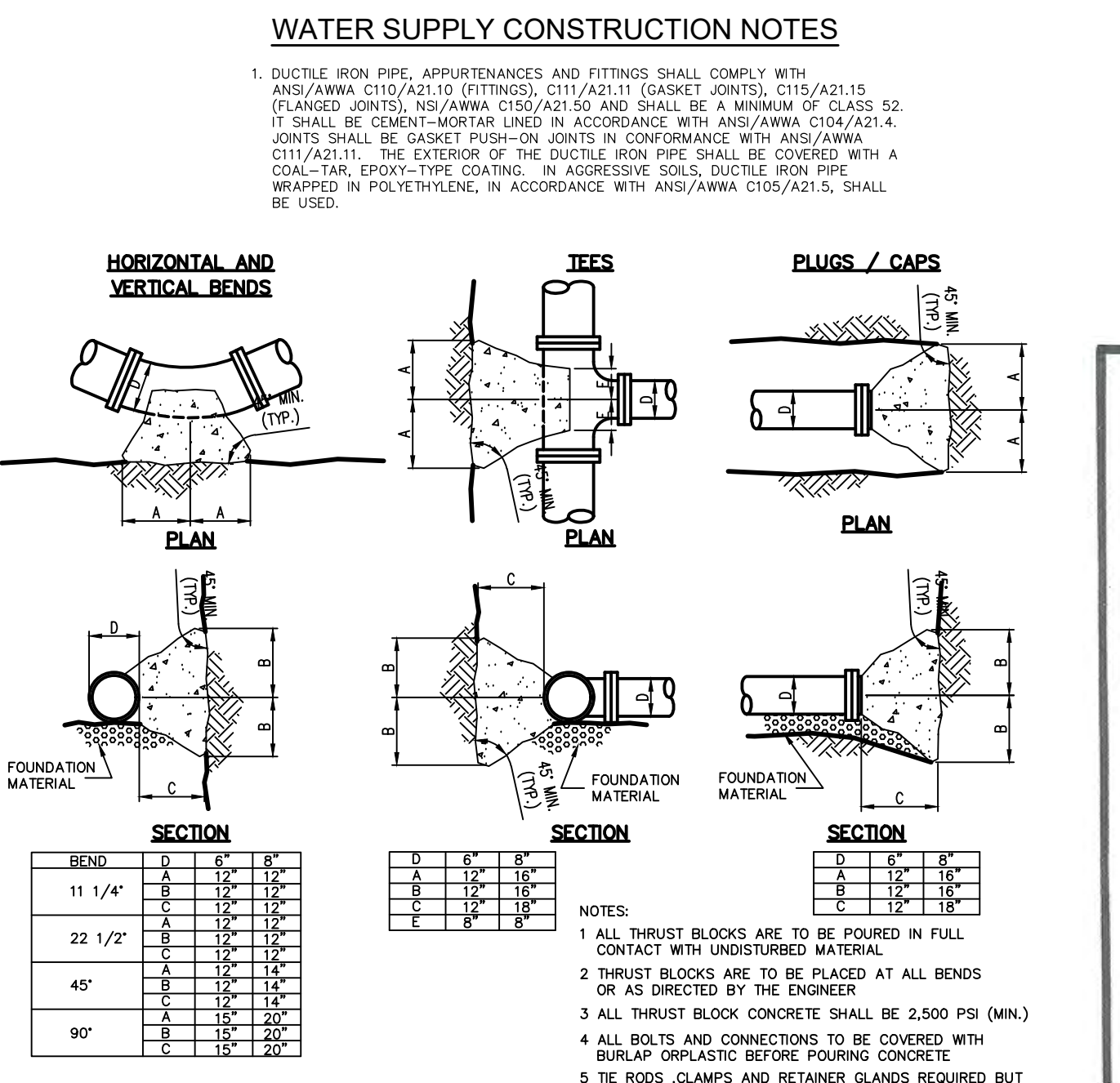


STANDARD PRECAST MANHOLE

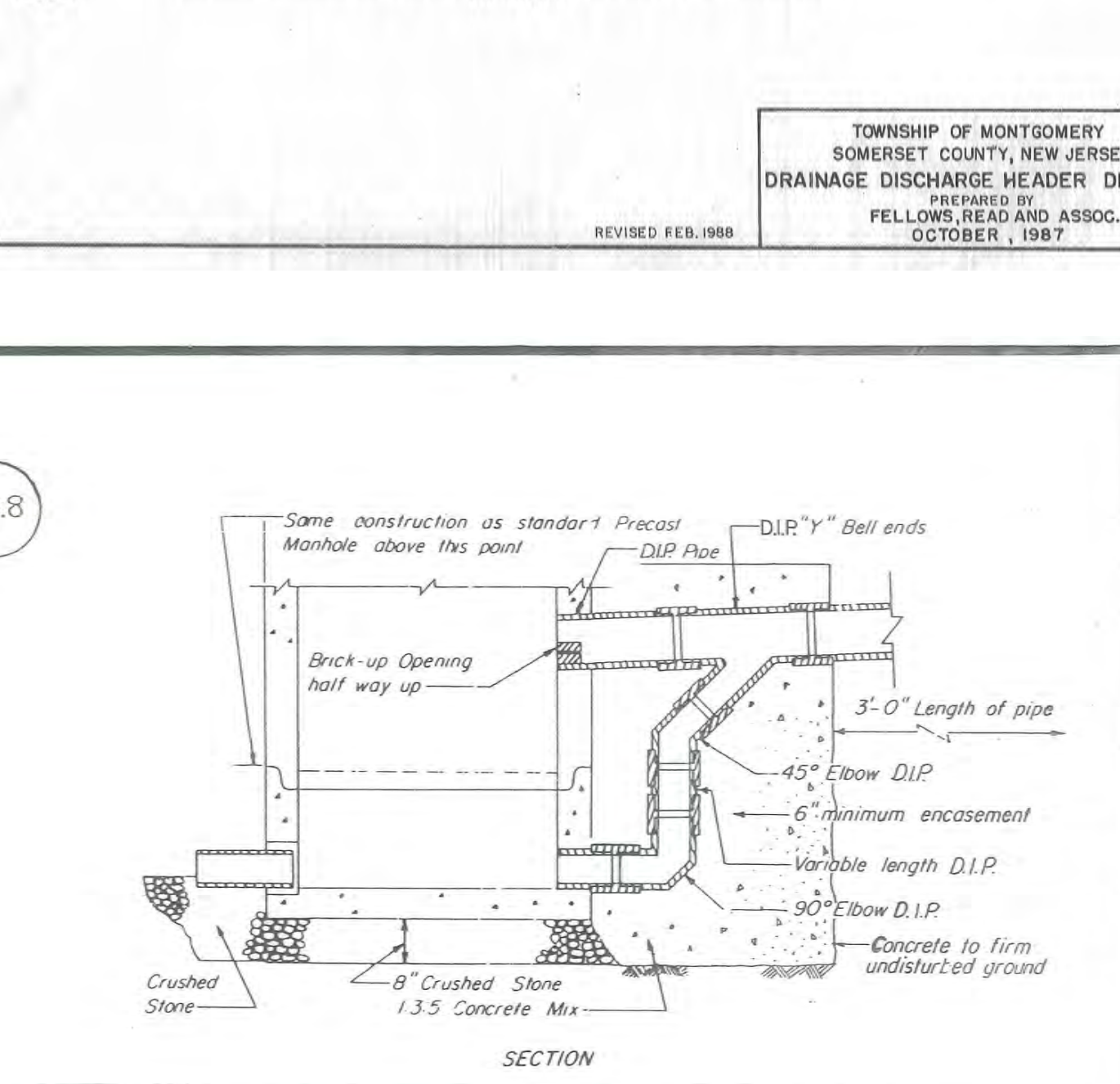
When dry sewers are installed, house connections shall extend inside the foundation and shall have a tamper-proof plug or cap temporarily sealed with a material that can be removed to utilize the fitting when the system is activated.



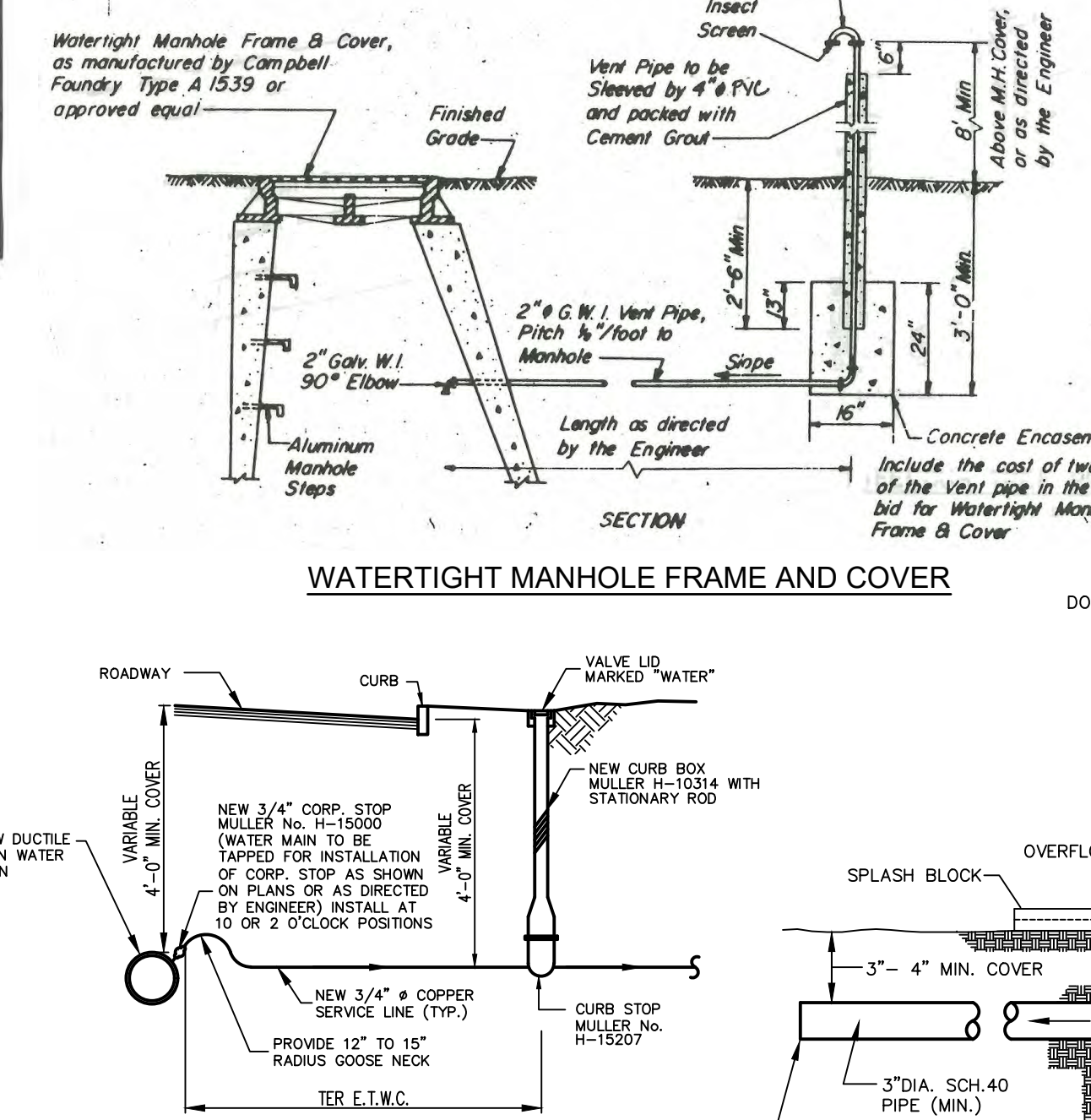
TYPICAL HOUSE CONNECTION



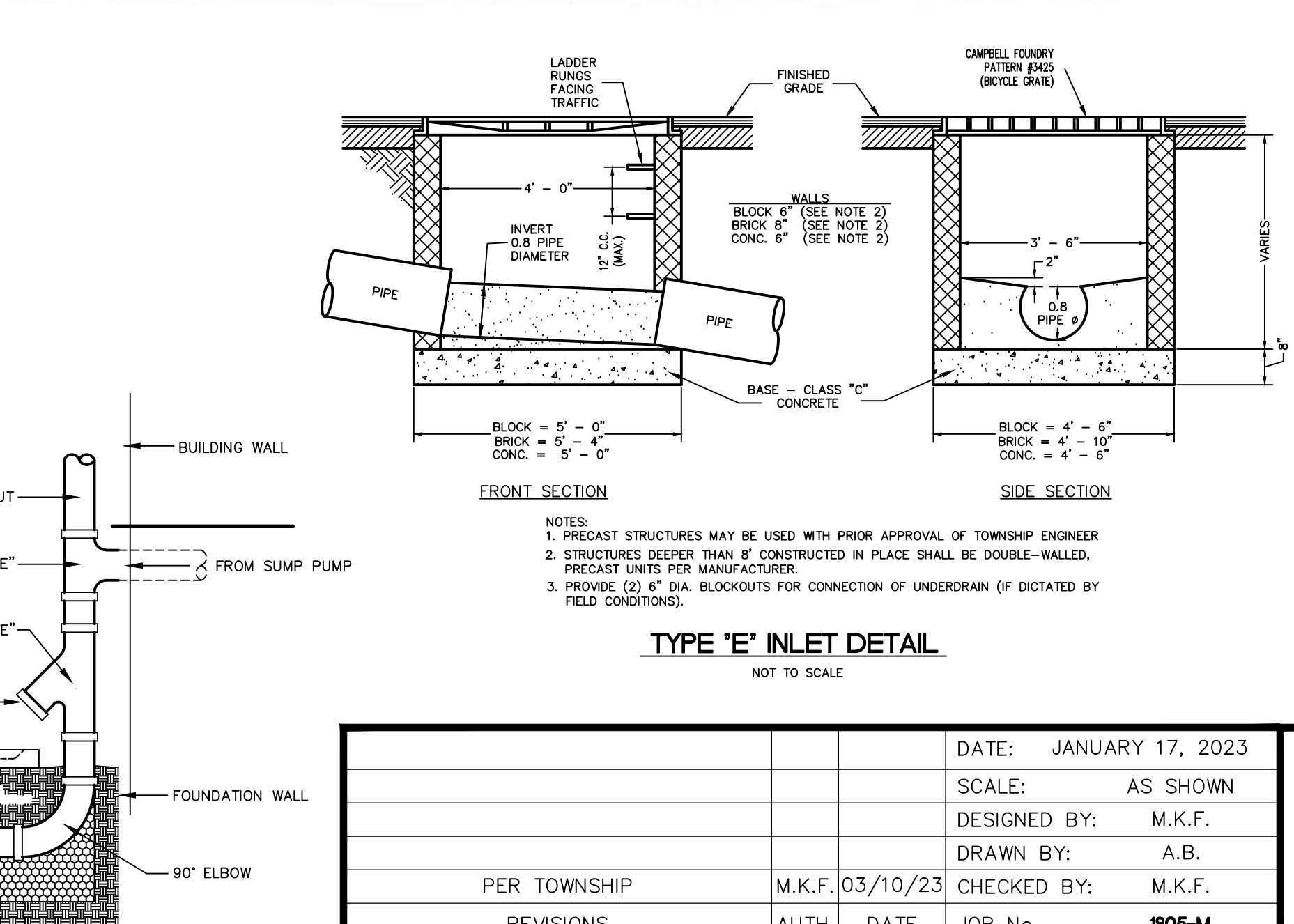
WATER SUPPLY CONSTRUCTION NOTES



DROP MANHOLE WITH PRECAST BASE



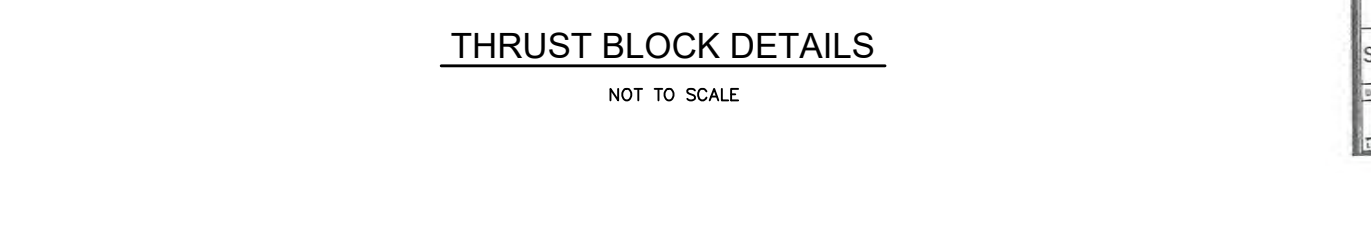
WATERTIGHT MANHOLE FRAME AND COVER



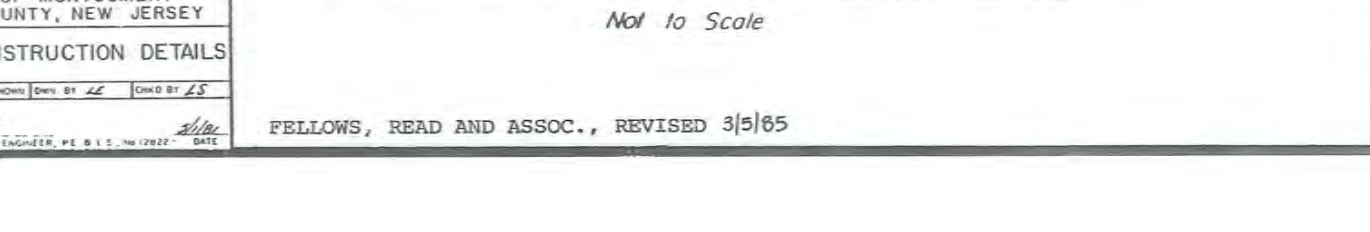
TYPE 'E' INLET DETAIL



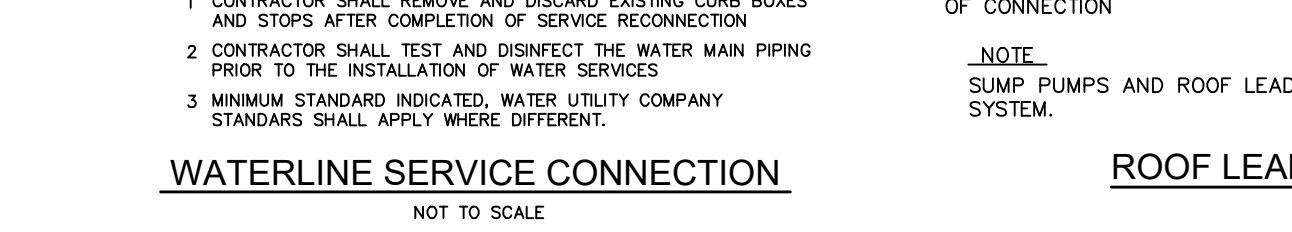
TYPICAL HOUSE CONNECTION



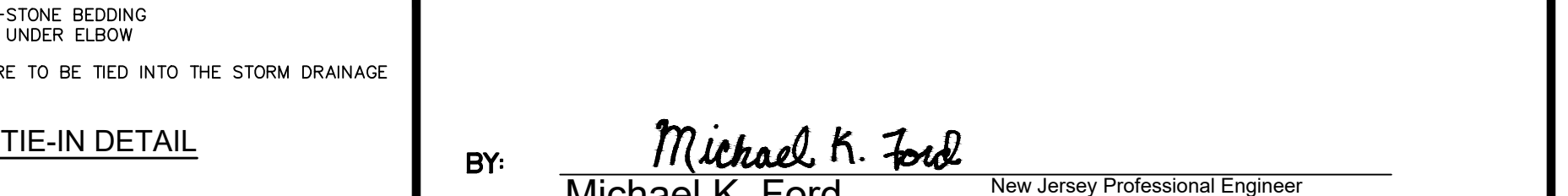
THRUST BLOCK DETAILS



DROP MANHOLE WITH PRECAST BASE



WATERLINE SERVICE CONNECTION



ROOF LEADER TIE-IN DETAIL

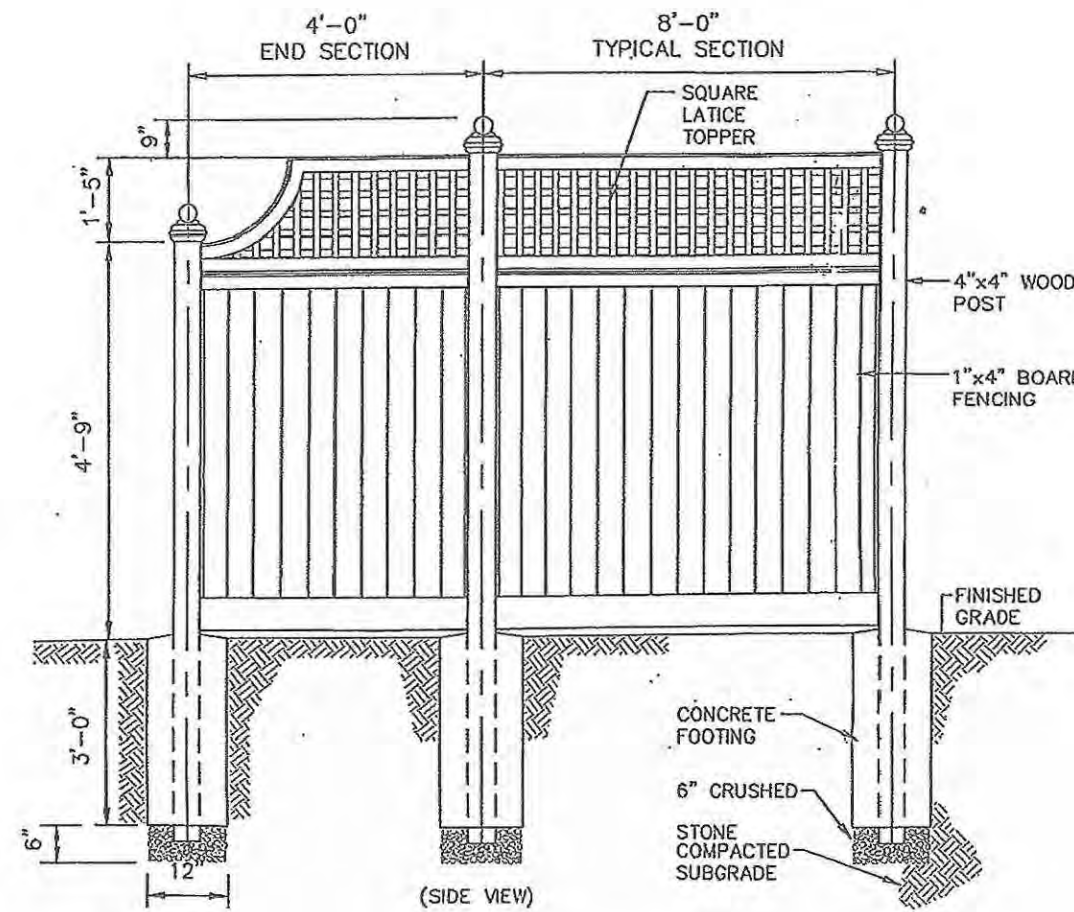
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DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
DATE:	03/10/23
PER TOWNSHIP:	M.K.F.
REVISIONS:	1. AUTH. DATE
	2. JOB No. 1905-M

Van Cleaf
ENGINEERING WITH FOCUS

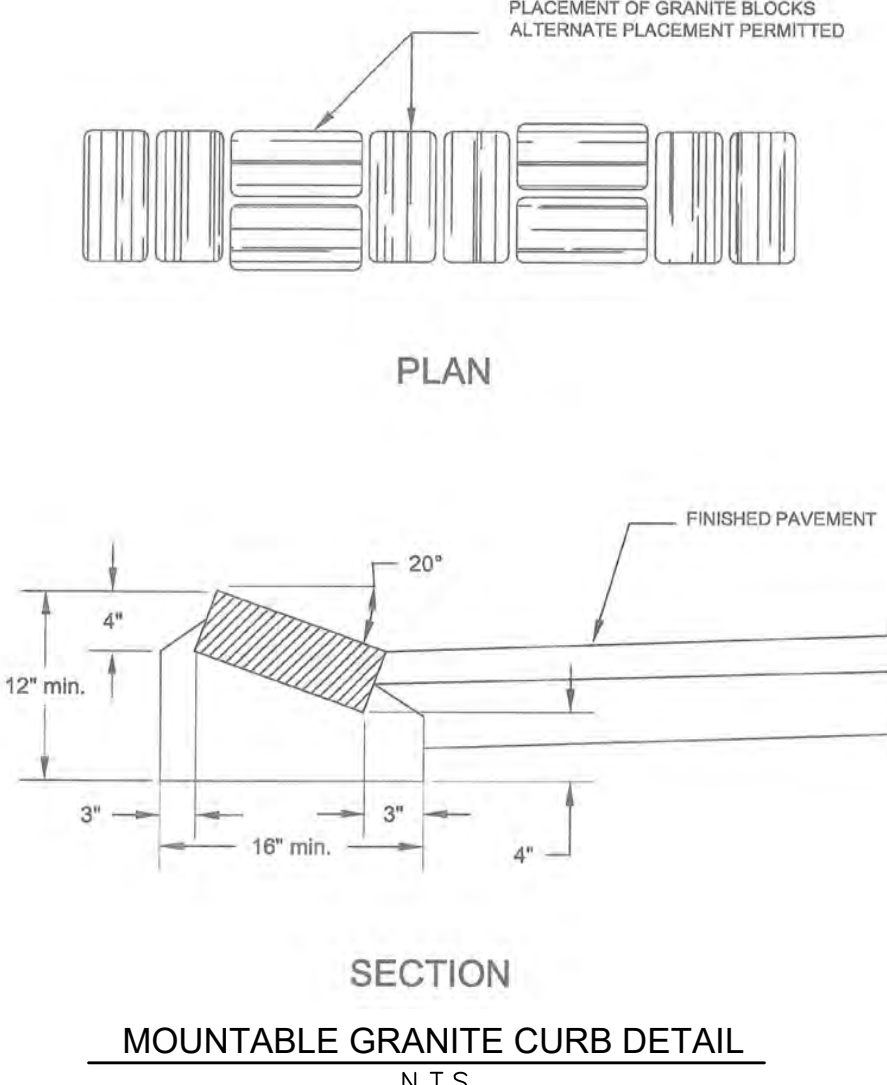
VAN CLEEF ENGINEERING ASSOCIATES, LLC
12 BROADWAY, SUITE 200, NEW JERSEY 07102
WWW.VANCLEEFENGINEERING.COM
PH: 201.461.1911
CERT. OF AUTHORIZATION NO. 2461812300

CONSTRUCTION DETAILS
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

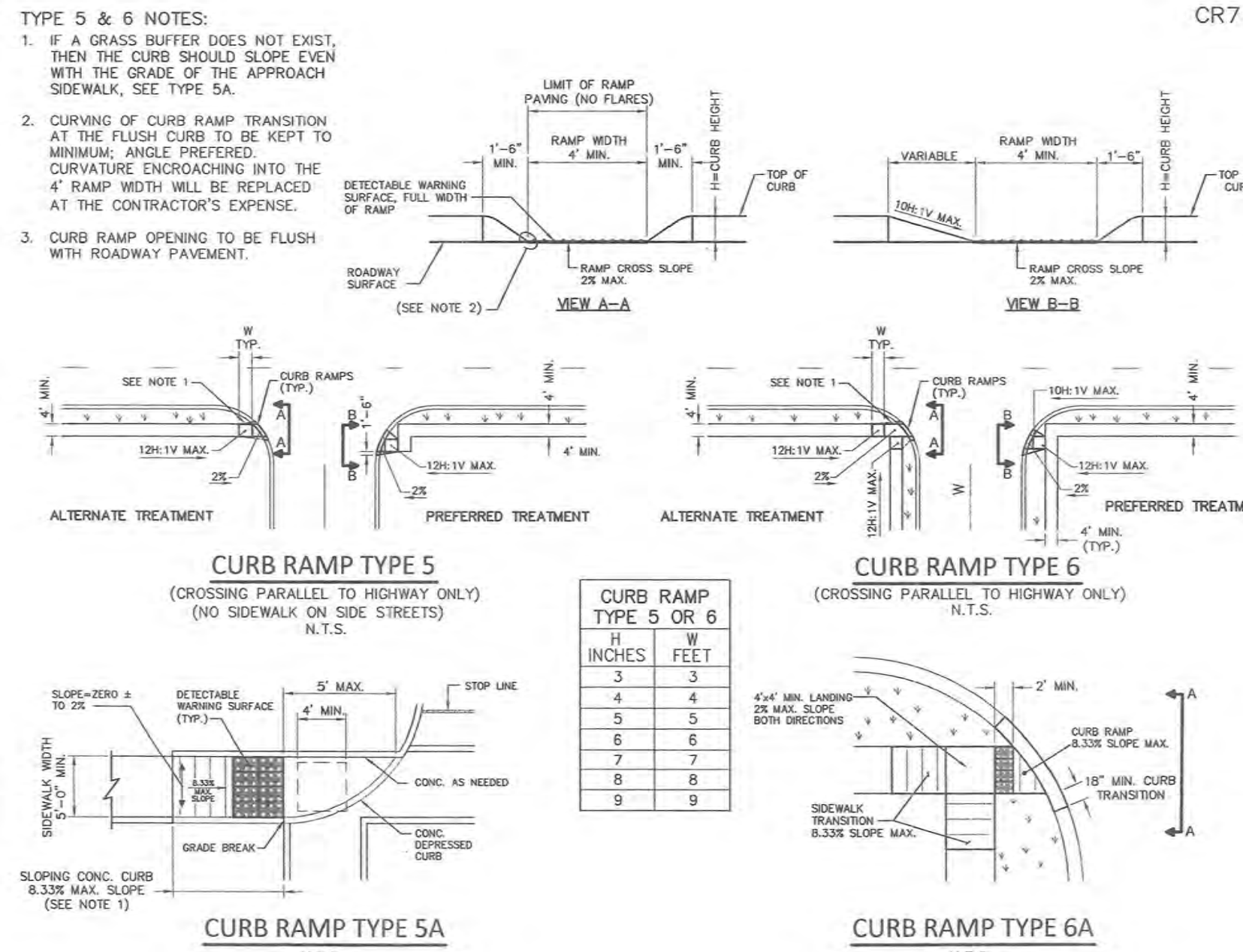
Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater



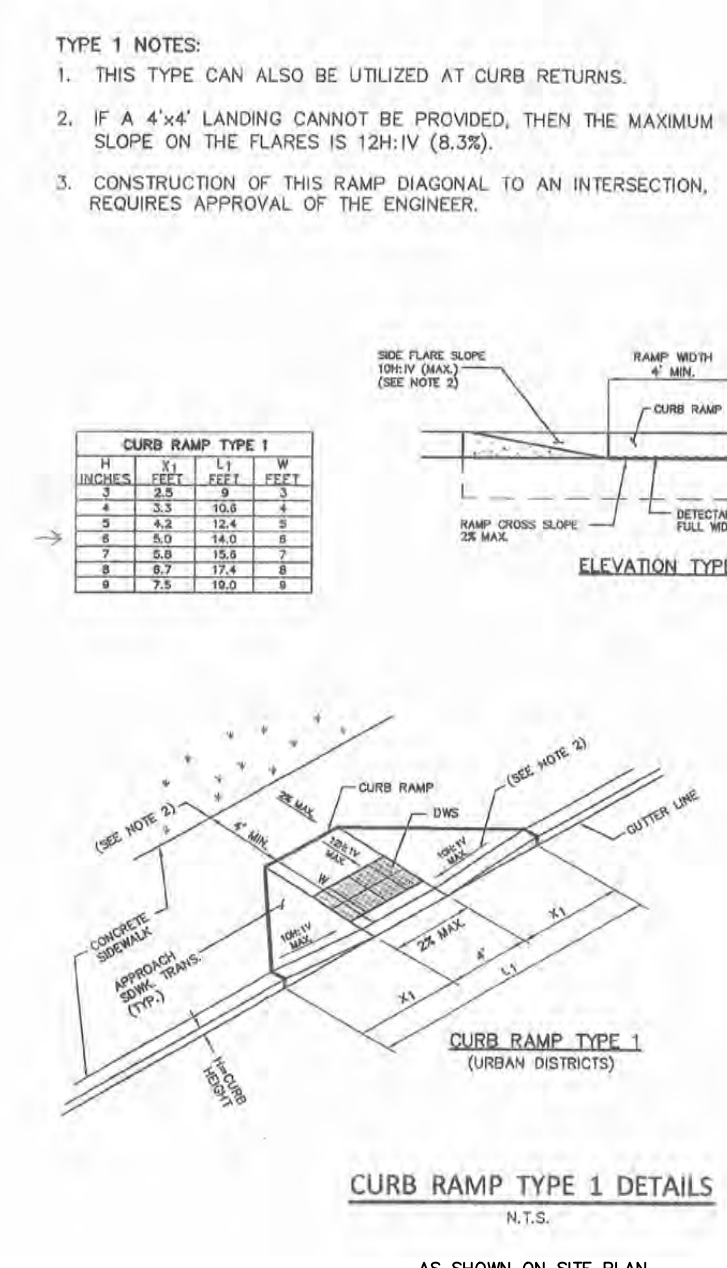
DECORATIVE FENCE DETAIL
N.T.S.



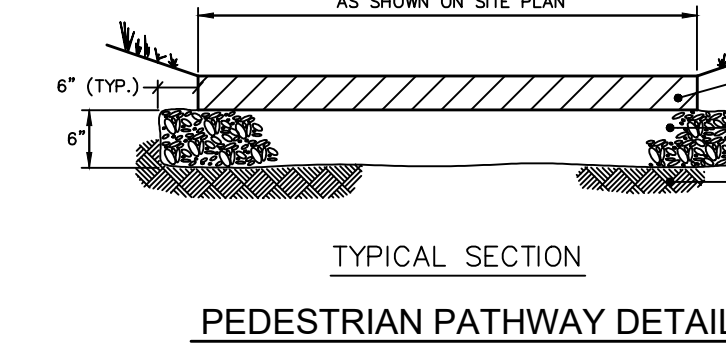
MOUNTABLE GRANITE CURB DETAIL
N.T.S.



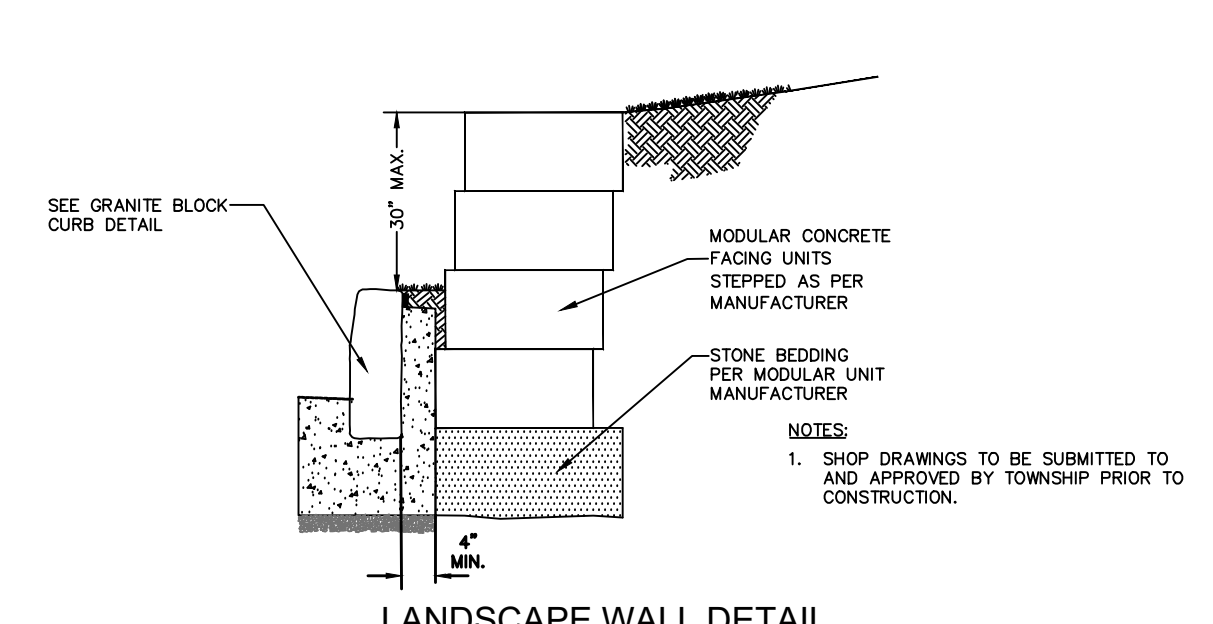
ACCESSIBLE CURB RAMP, CROSSWALK DETAIL
NOT TO SCALE



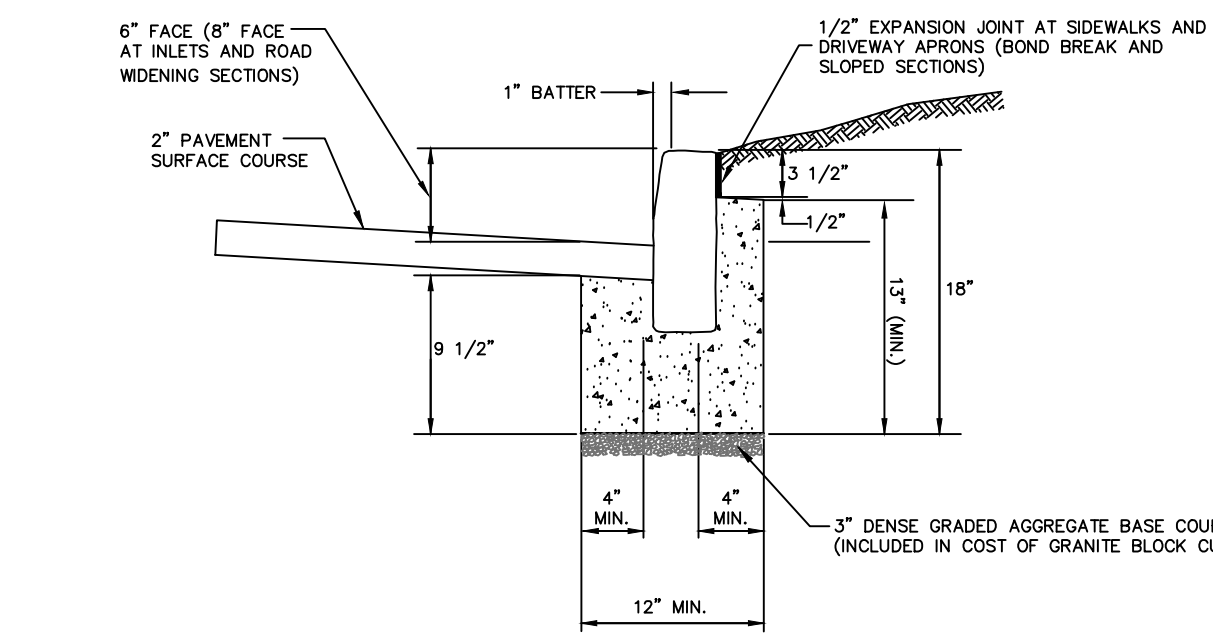
CURB RAMP TYPE 1 DETAILS
N.T.S.



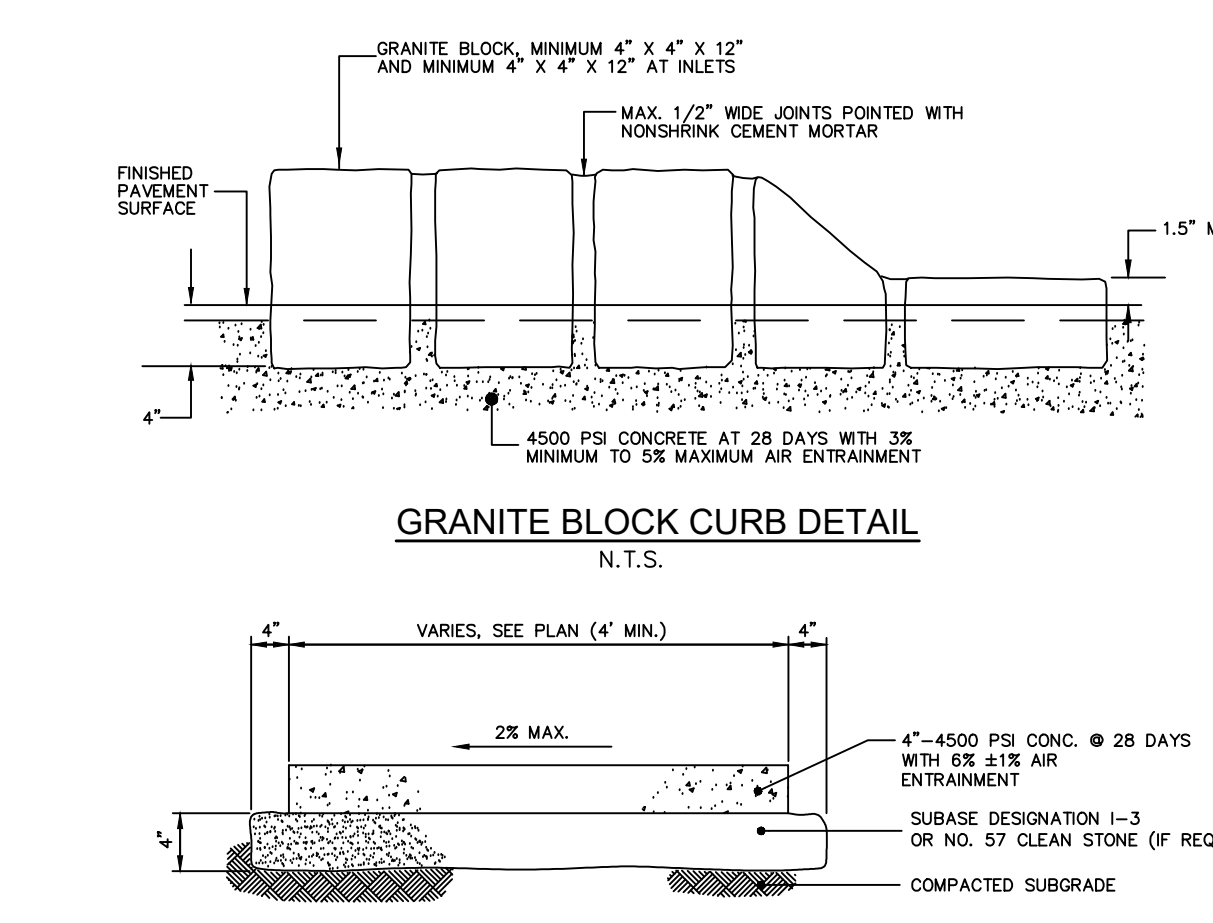
PEDESTRIAN PATHWAY DETAIL
N.T.S.



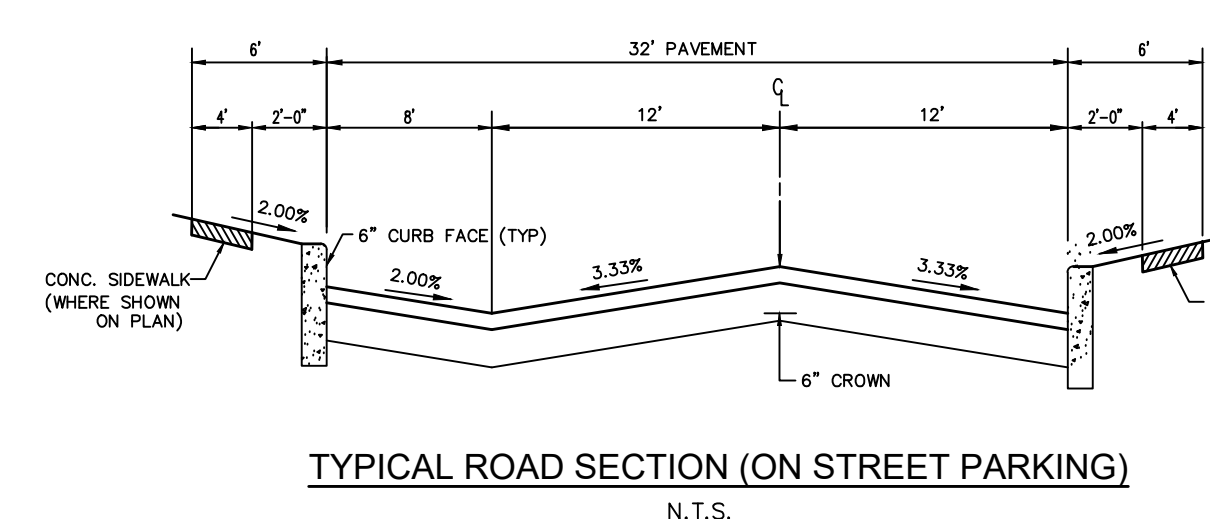
LANDSCAPE WALL DETAIL
N.T.S.



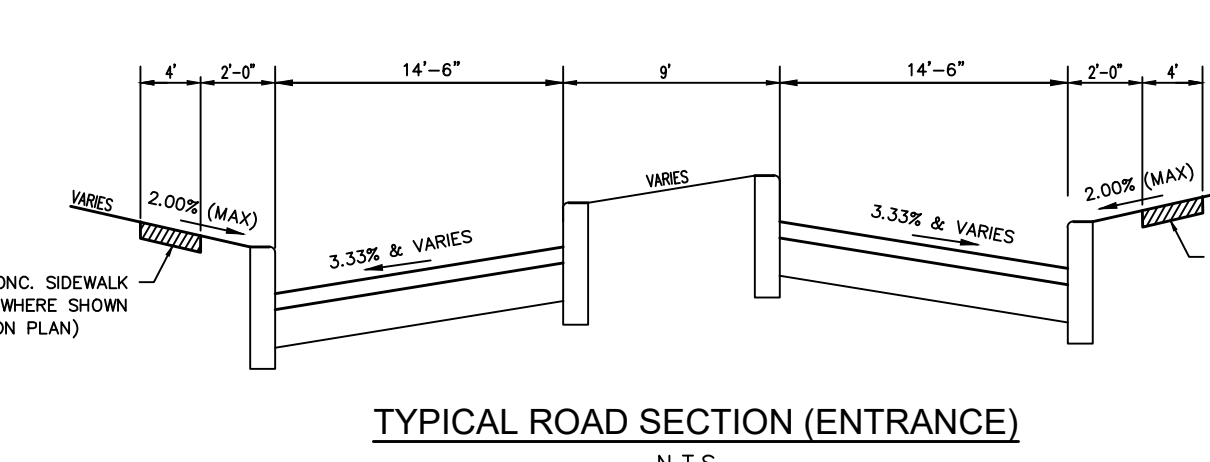
GRANITE BLOCK CURB DETAIL
N.T.S.



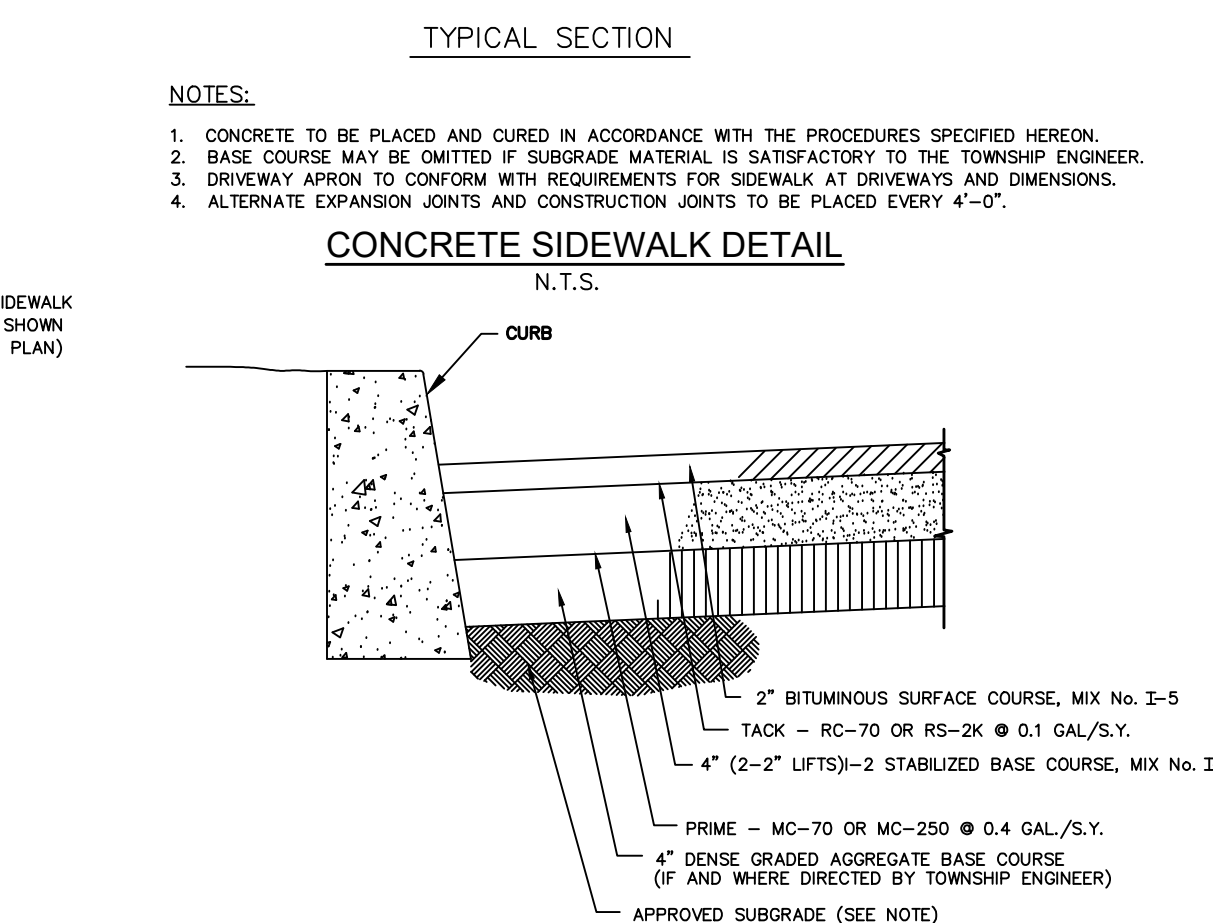
TYPICAL ROAD SECTION
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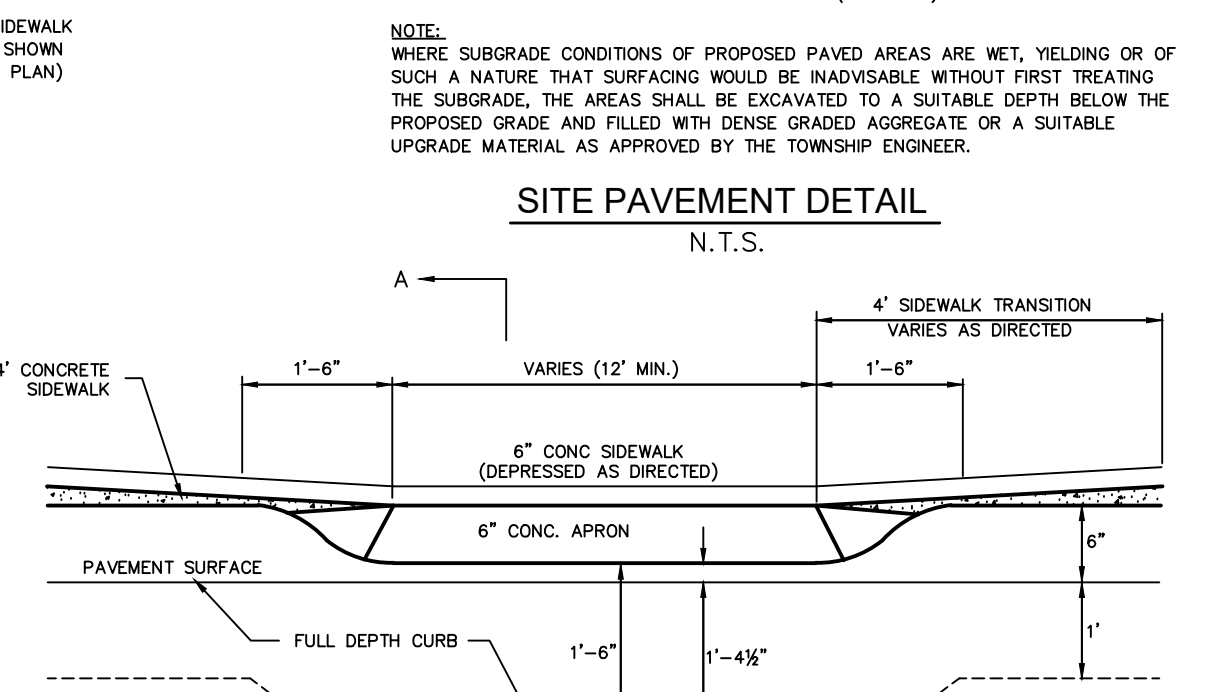
TYPICAL ROAD SECTION (ON STREET PARKING)
N.T.S.



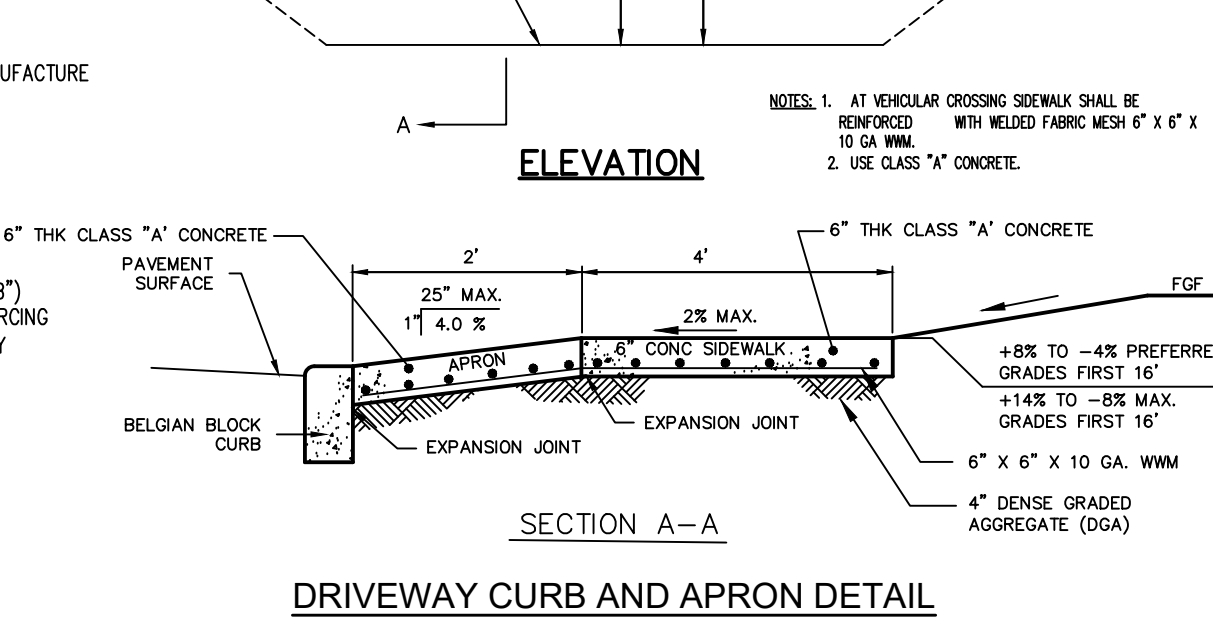
TYPICAL ROAD SECTION (ENTRANCE)
N.T.S.



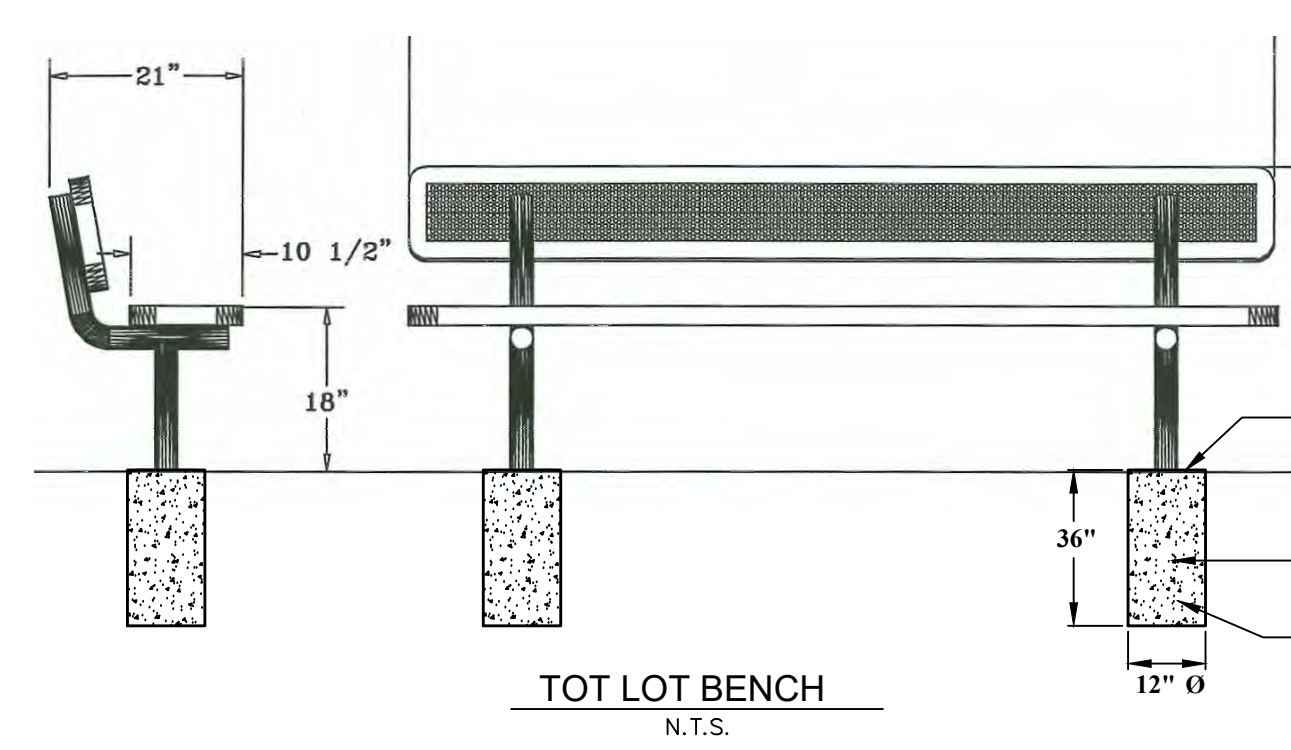
CONCRETE SIDEWALK DETAIL
N.T.S.



SITE PAVEMENT DETAIL
N.T.S.



DRIVEWAY CURB AND APRON DETAIL
N.T.S.



TOT LOT BENCH
N.T.S.

- SUPERIOR PLAY 6' BENCH WITH BACK (OR APPROVED EQUAL)**
- SPECIFICATION**
- 6' POLY VINYL EXPANDED METAL BENCH WITH BACK. ALL CORNERS ARE ROUNDED. FRAME IS SURFACE MOUNT DESIGN.
 - COVERED WITH 1/2" TO 1/4" THICK PLASTIC. ULTIMATELY STABILIZED VINYL COATING TIES AND BAKES TO A ROX GLOSS.
 - SEAT HEIGHT IS 18" APPROXIMATELY. BENCH HEIGHT IS 30" APPROXIMATELY. TOTAL OVERALL DIMENSIONS ARE 90" X 21" APPROXIMATELY.
 - SEAT IS MADE FROM USA SHIP & SHIP FINISHED STEEL.
 - ALL CENTER BRACES ARE MADE FROM 1/2" X 1/2" X 1/2" FLAT STEEL.
 - FRAMES ARE MADE OF 2-3/8" HEAVY GALVANIZED STEEL. TUBING THAT IS GALVANIZED INSIDE AND OUT AND MEETS OR EXCEEDS YIELD AND TENSILE OF 250,000 PSI. CONSTRUCTED TO AS TO PREVENT RAIN WATER FROM COLLECTING AT GRADE LEVEL. COATED WITH A BAKES ON POLYESTER POWDER COAT FINISH.
 - ALL HARDWARE IS NON-CORROSIVE. WEIGHT FOR THE BENCH/UNIT IS 170 LBS.

- NOTES**
- ANY BINS OR CONTAINERS USED FOR THE COLLECTION OF TRASH AND RECYCLABLE MATERIALS MUST BE APPROVED BY THE SANITATION PURVEYOR.
 - SIGNS INDICATING ACCEPTABLE RECYCLABLE MATERIALS MUST BE APPROVED BY THE SANITATION PURVEYOR.

CONSTRUCTION NOTES

- ALL SITE CONCRETE WITHIN THREE FEET OF FINISHED GRADE SHOULD BE 4500 P.S.I. AT 28 DAYS WITH 6% AIR ENTRAINMENT.

DUMPSTER ENCLOSURE DETAIL
N.T.S.

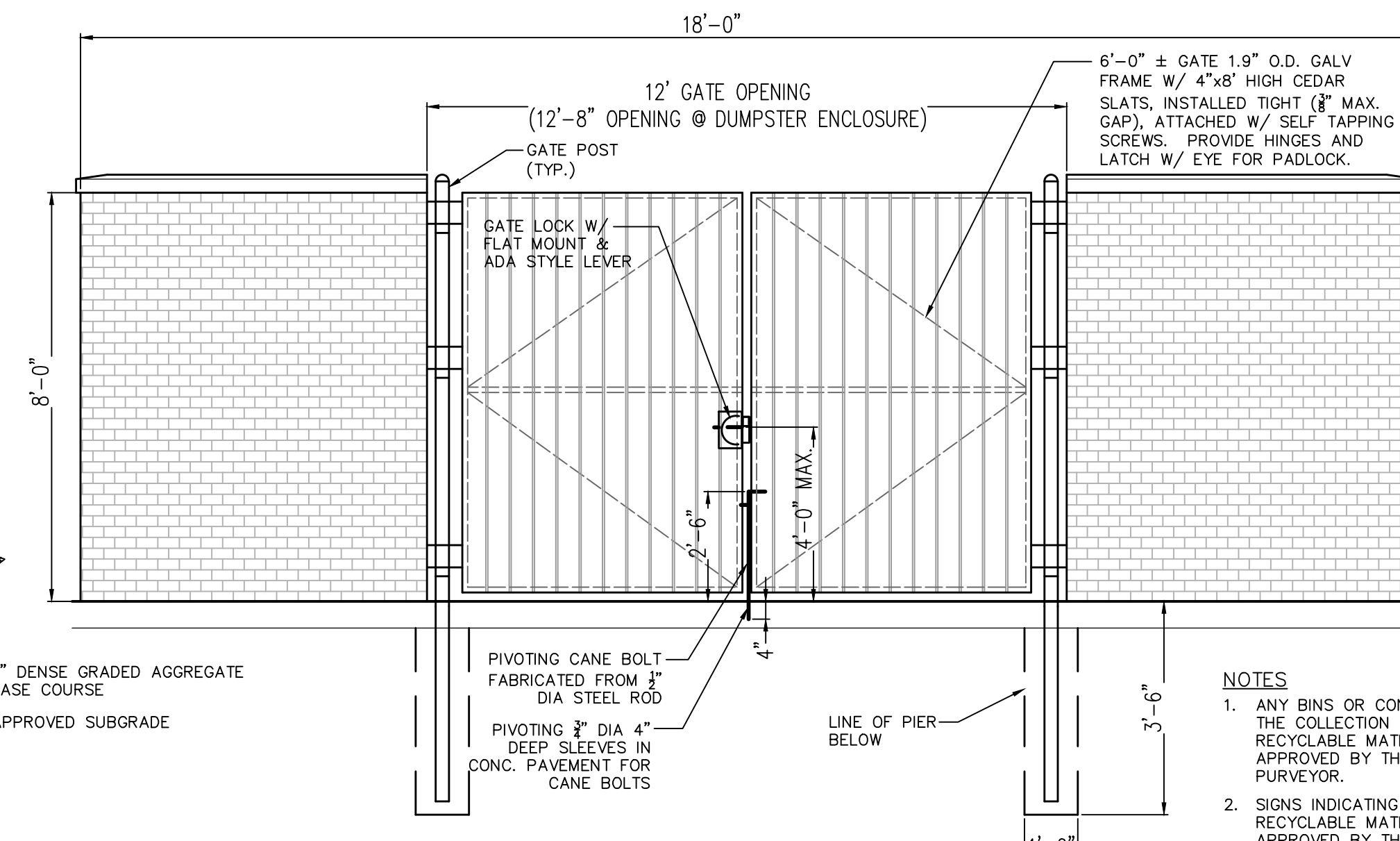
TerraBound Elite Dog Waste Station



Product Summary

The TerraBound Elite Dog Waste Station is available with a Single Pull® or Roll Bag dispenser system & lidded, 11 gallon aluminum can. This waste station is constructed from commercial grade aluminum and powder coated in forest green.

DOG WASTE STATION DETAIL
N.T.S.



ELEVATION

CONSTRUCTION NOTES

- ALL SITE CONCRETE WITHIN THREE FEET OF FINISHED GRADE SHOULD BE 4500 P.S.I. AT 28 DAYS WITH 6% AIR ENTRAINMENT.



PROPOSED SITE SIGN (OR EQUAL) DETAIL
N.T.S.



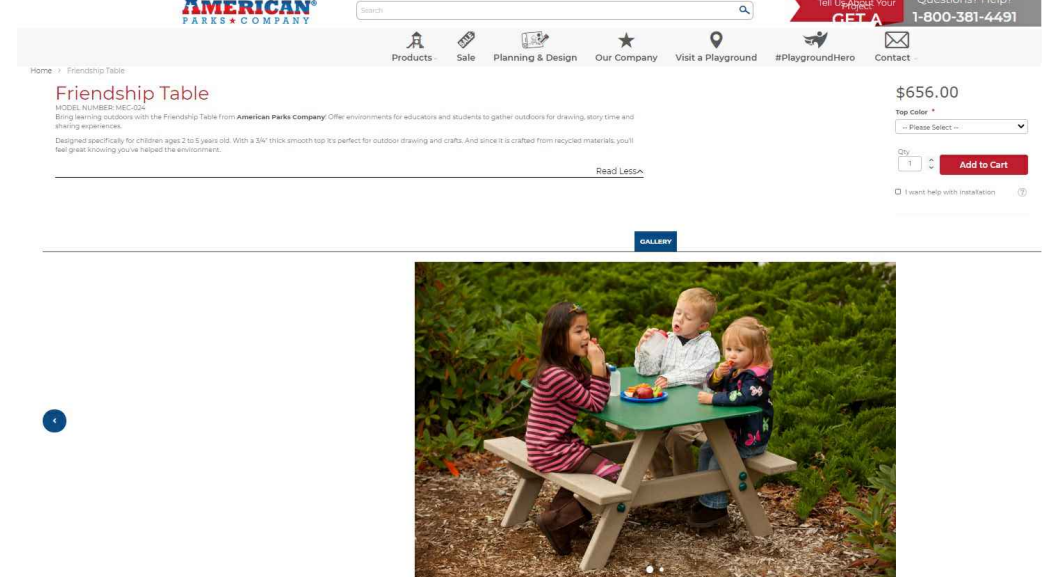
TOT LOT PLAY SPRING RIDER DETAILS
N.T.S.

AMERICAN PARKS COMPANY OR APPROVED EQUAL.

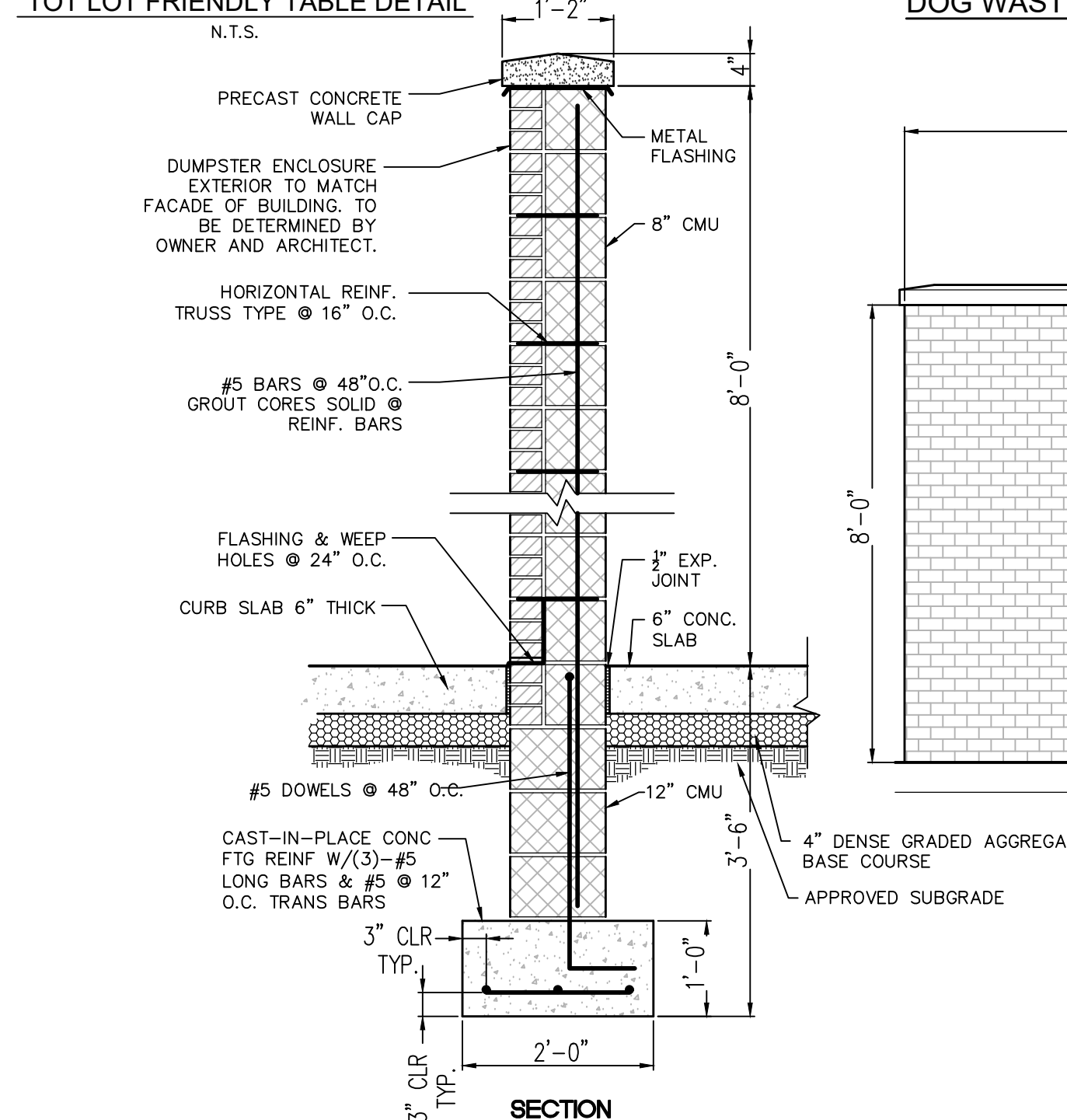


TOT LOT SEE-SAW BOUNCER DETAILS
N.T.S.

AMERICAN PARKS COMPANY OR APPROVED EQUAL.



TOT LOT FRIENDLY TABLE DETAIL
N.T.S.



SECTION



TOT LOT PLAY EQUIPMENT DETAIL
N.T.S.

AMERICAN PARKS COMPANY OR APPROVED EQUAL.

"Plans, details, and calculations for the proposed tot lot shall be provided to the municipal engineer for review and approval prior to any materials being ordered and any construction being performed. Space in the tot lot shall be provided for 2-5 year and 6-12 year age groups. All construction shall be performed in accordance with Consumer Product Safety Commission (CPSC) and American Society of Testing Materials (ASTM) requirements."

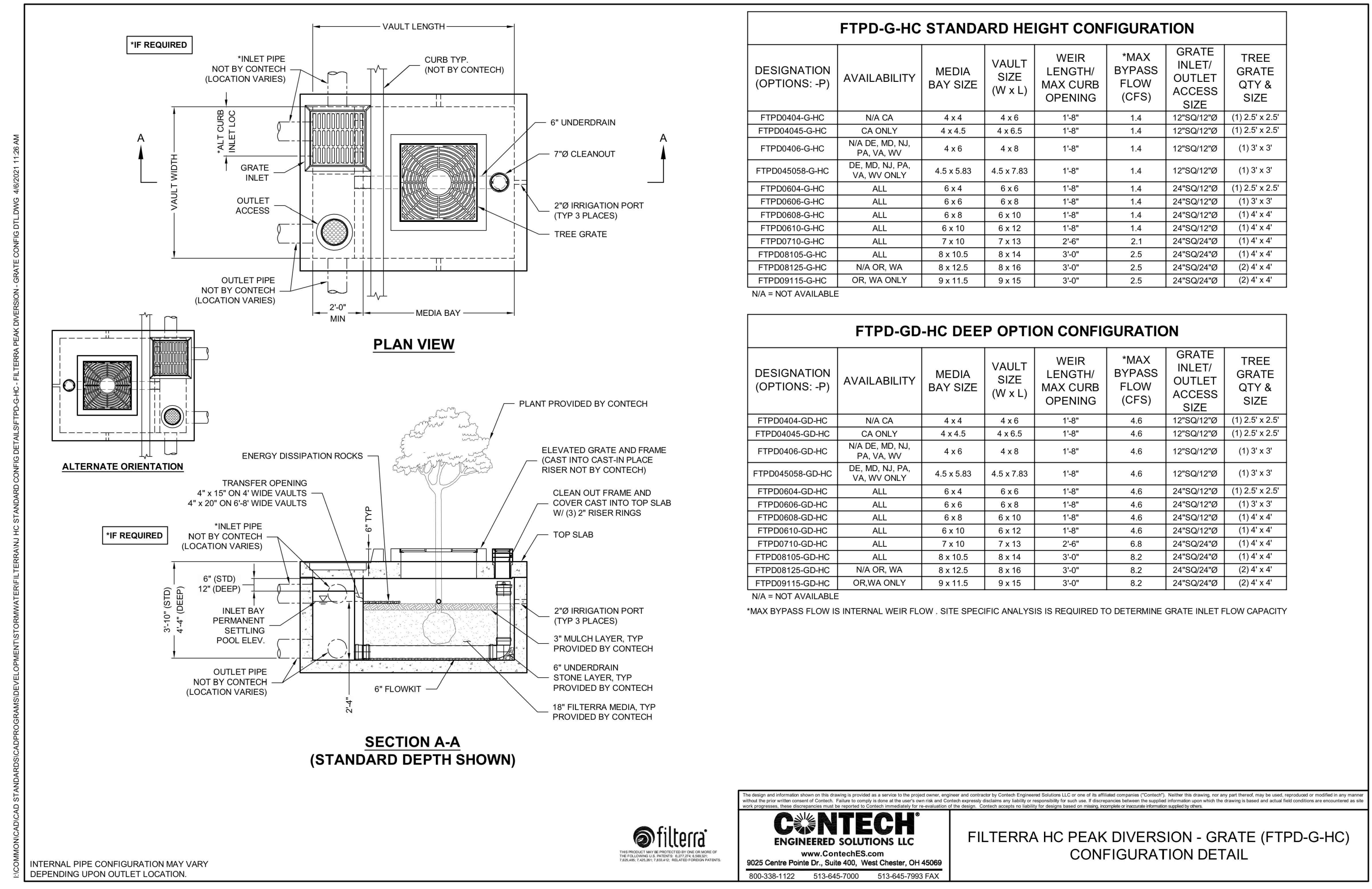
DATE:	JANUARY 17, 2023
SCALE:	AS SHOWN
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
DATE:	3/10/23
JOB No.	1805-M

BY: **Michael K. Ford**
Michael K. Ford
New Jersey Professional Engineer
No. 34722

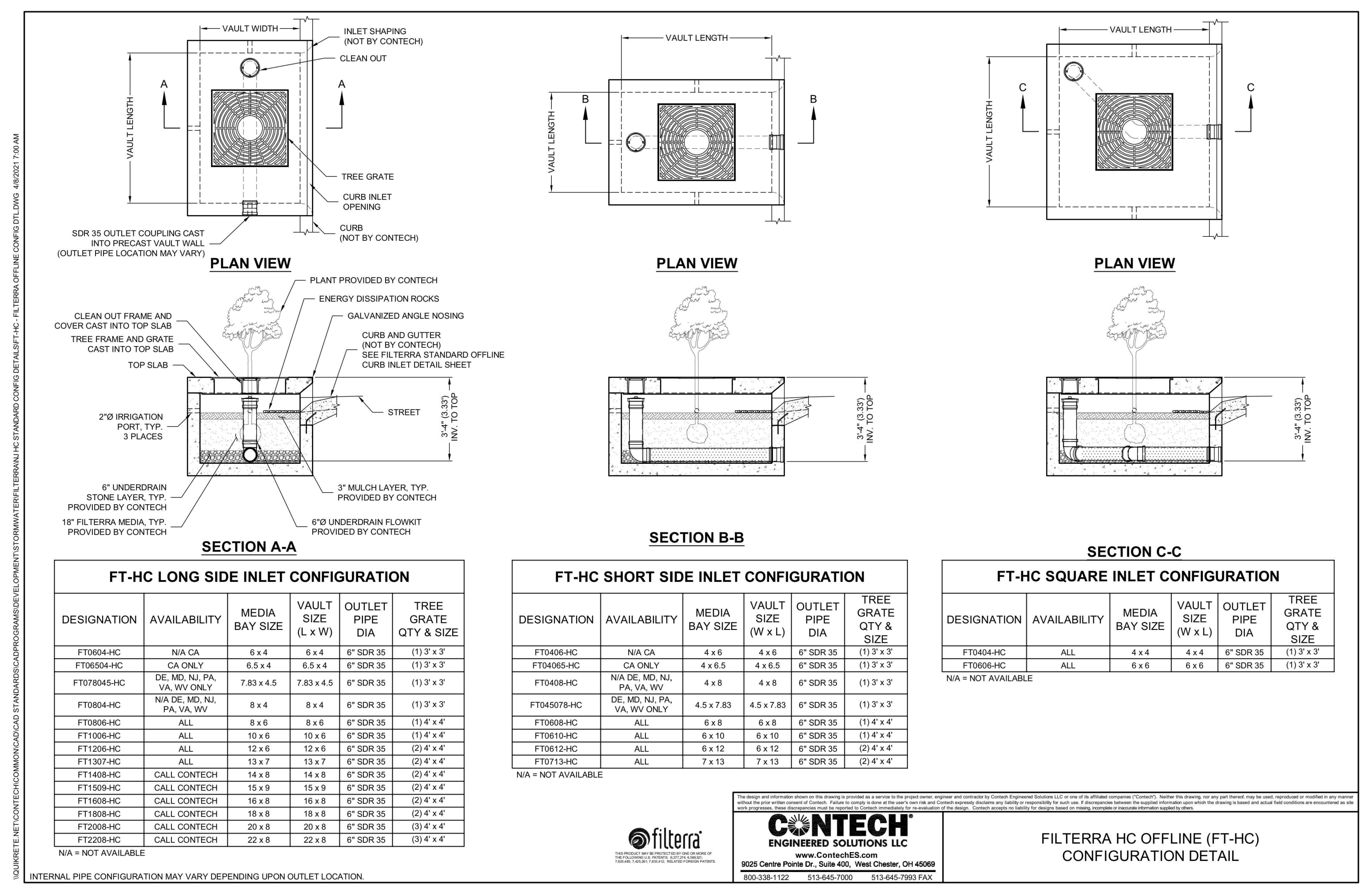


CONSTRUCTION DETAILS
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LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater



MTD DETAILS
N.T.S.



MTD DETAILS
N.T.S.

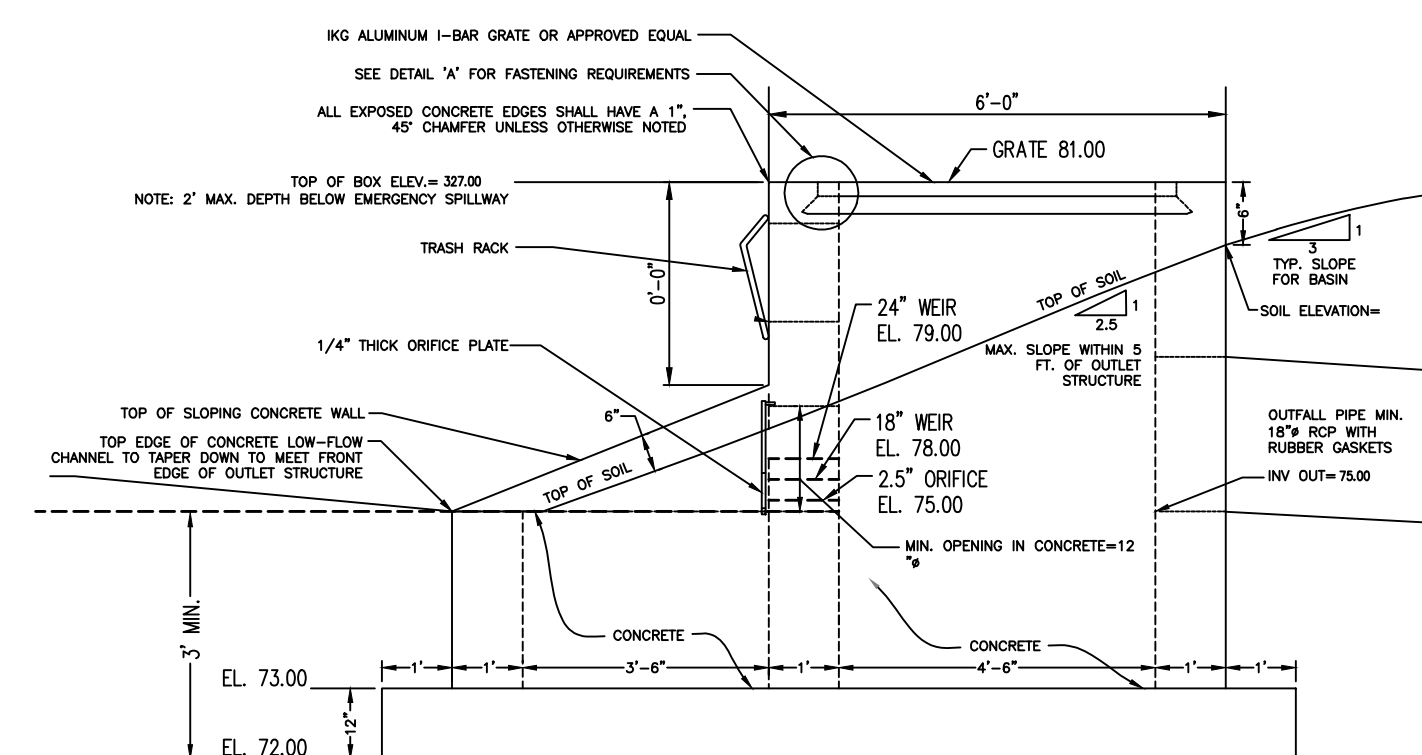
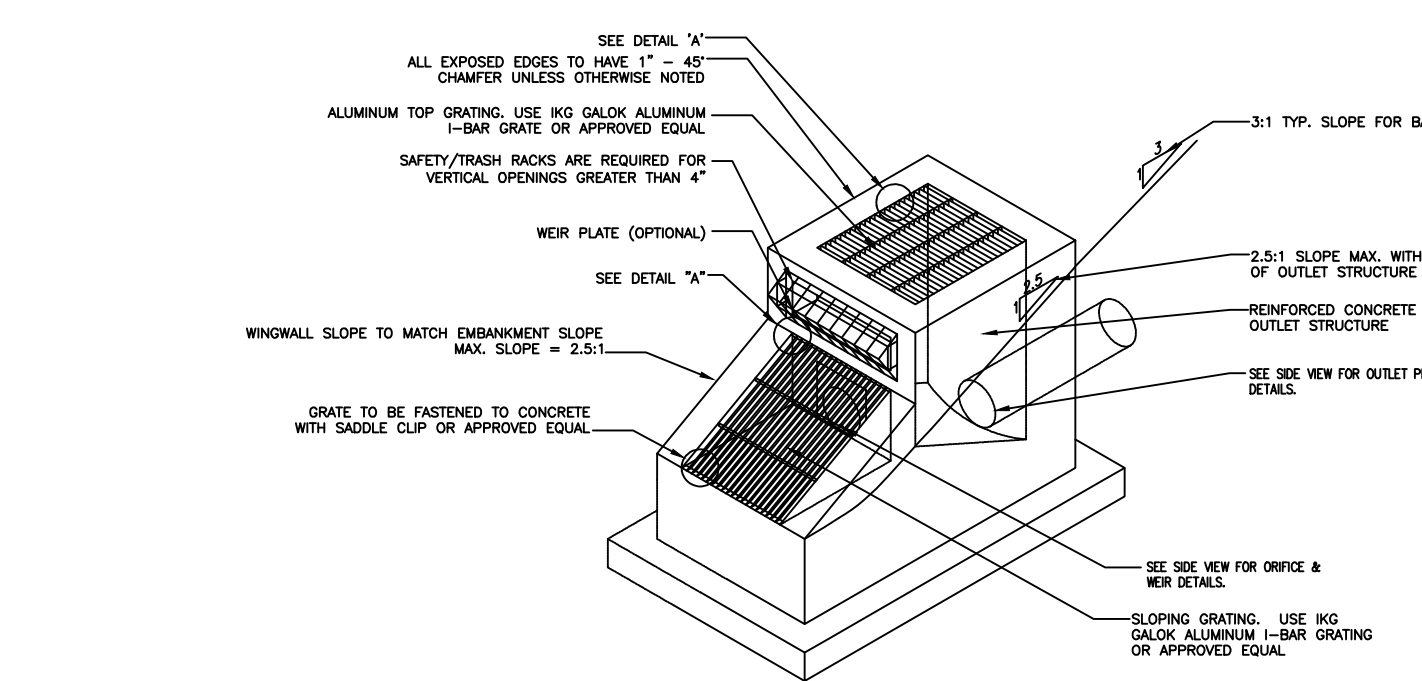
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Van Cleef
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CERT. OF AUTHORIZATION NO. 246A28132300

CONSTRUCTION DETAILS
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
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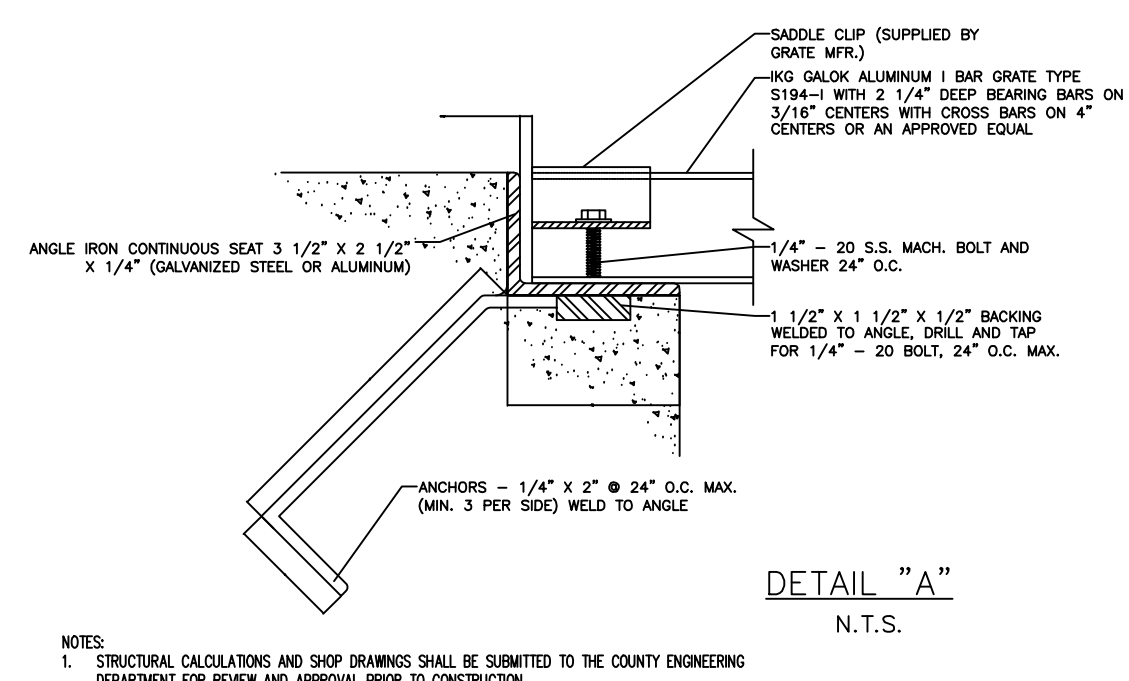
By: *Michael K. Ford*
Michael K. Ford
New Jersey Professional Engineer
No. 34722

13



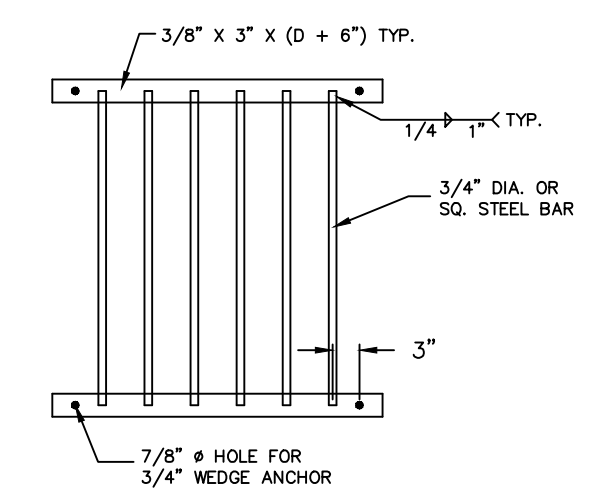
COUNTY OUTLET CONTROL STRUCTURE SIDE VIEW
NOT TO SCALE

OUTLET STRUCTURE DETAILS
N.T.S.



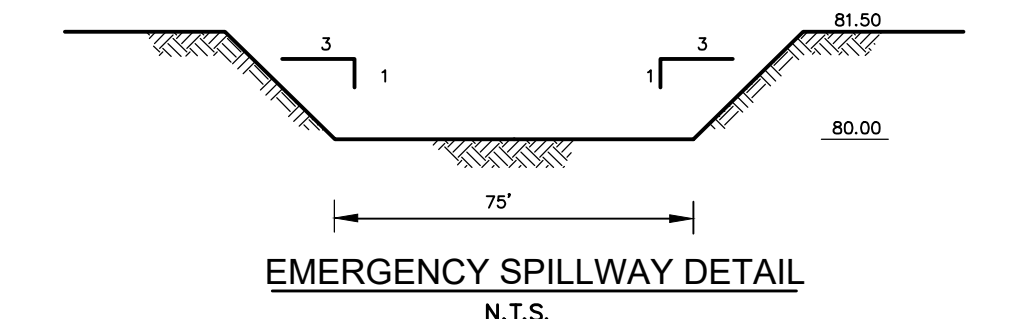
- NOTES:
1. STRUCTURAL CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE COUNTY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 2. THE MINIMUM WALL THICKNESS SHALL BE 12" TO FACILITATE THE PLACEMENT OF CONCRETE.
 3. ALL CONSTRUCTION SHALL BE TO BE WATERPROOF. ALL PIPES, STUBS, AND/OR FITTINGS ARE TO BE CAST MONOLITHICALLY IN THE STRUCTURE.

DETAIL "A"
N.T.S.

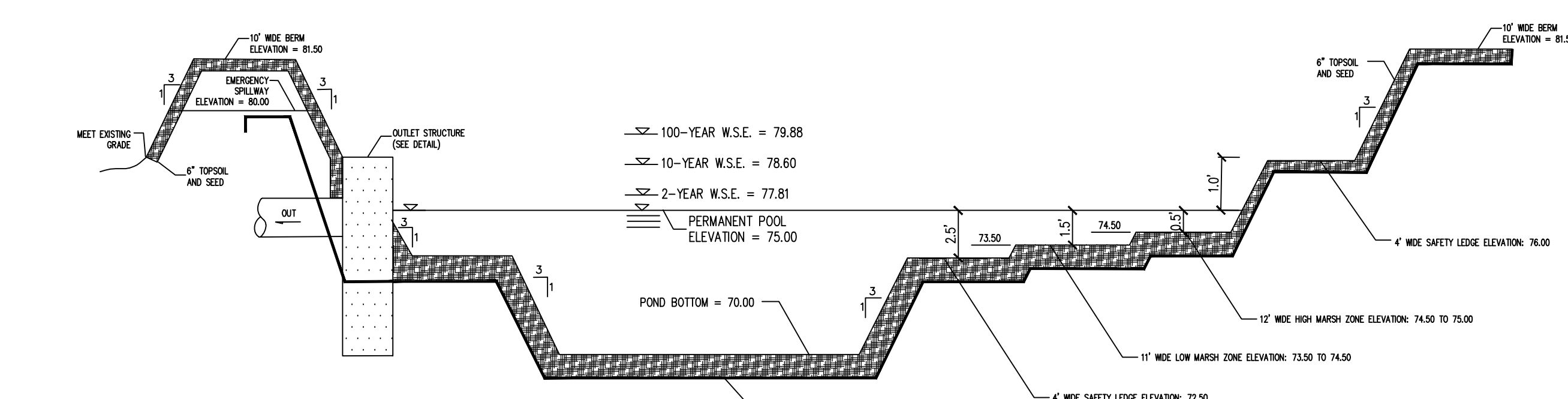


- NOTES:
1. ENTIRE TRASH RACK FRAME TO BE HOT-DIPPED GALVANIZED AFTER WELDING.
 2. CENTER TO CENTER SPACING BETWEEN BARS SHALL BE 2" FOR ORIFICES AND 4" FOR WEIRS.

RECTANGULAR TRASH RACK DETAIL
N.T.S.



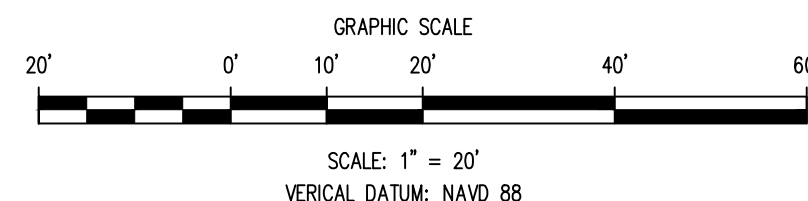
EMERGENCY SPILLWAY DETAIL
N.T.S.



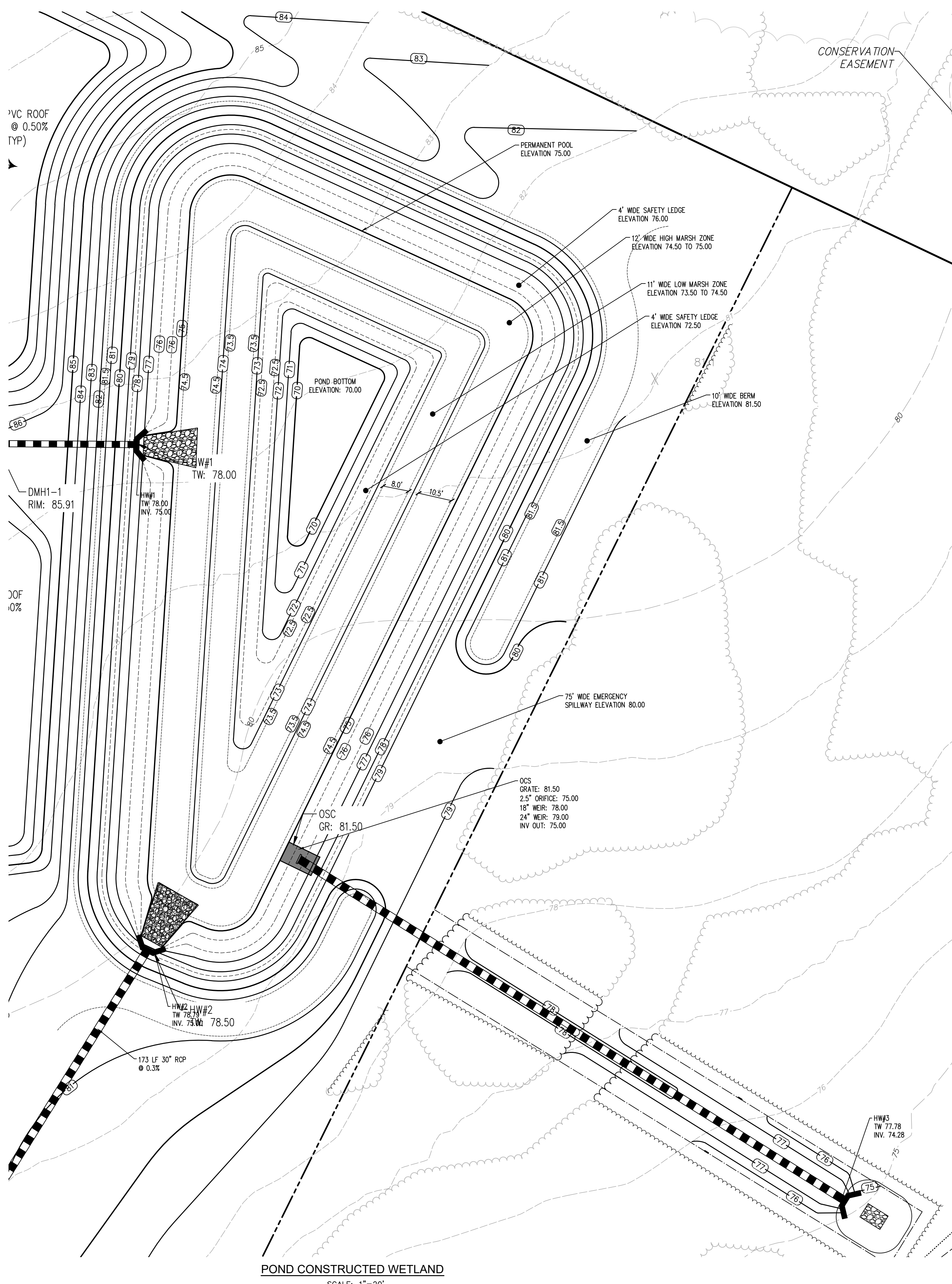
BASIN NOTES:

1. ALL EARTHWORK OPERATIONS, INCLUDING EXCAVATION, PROOFROLLING, GRADING AND BACKFILL OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF A NEW JERSEY LICENSED PROFESSIONAL ENGINEER.
2. FILL MATERIAL AND LINER INSTALLATION SHALL BE INSPECTED, APPROVED BY, AND INSTALLED UNDER THE SUPERVISION OF A NEW JERSEY LICENSED PROFESSIONAL ENGINEER.
3. THE FILL MATERIAL TO BE UTILIZED FOR THE BERM/EMBANKMENT AT THE WET POND SHALL BE AS FOLLOWS: THE BERM SHALL BE CONSTRUCTED WITH SOIL FILL THAT HAS AN IN-SITU PERMEABILITY NO GREATER THAN 0.4 IN/HR. THE BERM/EMBANKMENT FILL SHALL BE PLACED IN 12 INCH LAYERS AND COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DENSITY (ASTM D-1557). EACH LIFT SHALL BE INSPECTED, TESTED, AND APPROVED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS.
4. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF SOIL CONDITIONS ENCOUNTERED IN THE FIELD DIFFER FROM WHAT IS SHOWN HEREON. SUCH CONDITIONS COULD RENDER THE DESIGN HEREON INAPPROPRIATE OR INEFFECTIVE.
5. ALL SUBMERGED PIPES INTO OR OUT OF A WET POND SHALL BE CONSTRUCTED USING WATERTIGHT JOINTS. REINFORCED CONCRETE PIPE JOINTS SHALL MEET ASTM C361 OR C443. PLASTIC PIPE JOINTS SHALL MEET ASTM D3212 AND DUCTILE IRON PIPE JOINTS SHALL CONFORM TO ANSI/AWWA C111/A21.11. ALL LATEST EDITIONS. HOPE PIPE SHALL NOT BE UTILIZED IN SUBMERGED CONDITIONS.
6. CLAY MATERIALS ARE NOT TO BE PLACED DIRECTLY AGAINST COARSE GRAINED DEPOSITS. THE SITE GEOTECHNICAL ENGINEER SHALL APPROVE ALL SUBBASES PRIOR TO CLAY PLACEMENT.
7. GROUNDWATER SHALL BE CONTROLLED BY THE CONTRACTOR AT ALL TIMES.
8. EXACT SIZE AND LOCATION OF EMERGENCY DRAINAGE PIPE SHALL BE DETERMINED UPON BUILDING CONSTRUCTION APPLICATION.
9. A PORTABLE PUMP SHALL BE UTILIZED FOR DRAINAGE OF ANY VOLUME CONTAINED BELOW THE OUTLET STRUCTURE INVERT.

POND CONSTRUCTED WETLAND CROSS SECTION
N.T.S.



SCALE: 1" = 20'
VERTICAL DATUM: NAVD 88



POND CONSTRUCTED WETLAND
SCALE: 1"=20'

DATE:	JANUARY 17, 2023
SCALE:	AS SHOWN
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
REVISIONS	AUTH. DATE JOB No. 18-05-M

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722

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CERT. OF AUTHORIZATION NO. 266281121880

POND CONSTRUCTED WETLAND DETAILS
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL BE PROTECTED BY THE SEEDING OF A SUITABLE EROSION CONTROL PRACTICE. DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION TRAFFIC, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2 TONS PER 200 SQ. YARDS, ACCORDING TO NJ STATE STANDARDS.
3. PERMANENT VEGETATION SHALL BE SEED OR SOILED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL CONSTRUCTION. SEEDING OR SOILING FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NJ STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING FINAL SITE DEVELOPMENT.
6. IMMEDIATELY FOLLOWING FINAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (E.G.: STEEP SLOPES, ROADWAY DRAINAGEWAYS) WILL RECEIVE A TREATMENT OF SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER 200 SQ. YARDS, ACCORDING TO THE NJ STATE STANDARDS.
7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (E.G.: SLOPES GREATER THAN 3:1).
8. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50/50% GRADE OF 1 1/2" OR 2" STONE, AT ALL CONSTRUCTION SITES. THE USE OF STONE SHALL BE LIMITED TO THE SITE DEVELOPMENT.
9. THE SUMMIT-ERIN SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATION STABILIZATION IS GOING TO BE COMPLETED, ANY AREA THAT WILL PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED AND RESEEDED IMMEDIATELY. IMMEDIATELY AFTER THE SEEDING, THE SOIL CONDITIONS AND REDUCED IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS FOR VEGETATIVE GROUND COVER, THE DISTURBED GRASSLAND AREAS HAVE TO BE COVERED WITH MULCH.
11. THE NJ STATE NEMA AND THE DISTRICT REQUIRE THAT THE DISTRICT BE NOTIFIED OF ANY PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL, HAVE BEEN COMPLETED WITH FOR PERMANENT MEASURES, THE SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN DISCUSSIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
12. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTLETS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NJ STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
14. THE SUMMIT-ERIN SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
15. MULCHING TO THE NJ STATE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
16. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT GRASS DURING LIFE OF CONSTRUCTION PROJECT.
17. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF CONSTRUCTION. THE SUMMIT-ERIN SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IMMEDIATELY.
18. HYDRO SEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE STABILIZATION. GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. THE COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE ON A SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMAL SEEDING DATES AS LISTED IN THE NJ STANDARDS.

3. IMMEDIATELY PRIOR TO TOSSELING, THE SURFACE SHOULD BE SCARPED 6" TO 12" DEEP WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, RIPIPES, SYSTEMS, ETC.).
4. INSPECT THE SOIL BEFORE SCARPING. IF TRAFFIC HAS BEEN SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND RE-SEMED IN ACCORDANCE WITH ABOVE.
5. IMMEDIATELY PRIOR TO TOSSELING, THE SURFACE SHOULD BE SCARPED 6" TO 12" INCHES WHERE THERE HAS BEEN SOIL COMPACTION. THIS WILL HELP ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, RIPIPES, SYSTEMS, ETC.).
6. SOIL COMPACT RESULTING FROM LAND GRADING ACTIVITIES CAN IMPAIR THE INFILTRATION RATE OF THE SOIL. WHERE TOPSOIL HAS BEEN COMPACTED, SOIL SHOULD BE DEEPLY TILLED (12" TO 18" DEEP) AND ORGANIC MATTER MAY BE REQUIRED IN PLANNED PERVIOUS AREAS TO ENHANCE THE INFILTRATION RATE OF THE DISTURBED SOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLE, RIPIPES, SYSTEMS, ETC.).
7. TO PREVENT COMPACTING OF THE SUBSOIL WHICH WILL REDUCE ITS INFILTRATION CAPACITY, BASINS SHOULD BE EXCAVATED TO A DEPTH OF 18" TO 24" PRIOR TO TOSSELING. WHERE TOPSOIL OVER SEEDS THIS DEPTH, THE SUBSOIL SHOULD BE EXCAVATED TO 18" TO 24" PRIOR TO TOSSELING. AFTER THE FINAL CONSTRUCTION PHASE IS REACHED, THE SUBSOIL SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER, DISC, HARROW OR SMOOTHED OVER WITH A LEVELING DRAG OR EQUIVALENT GRADING EQUIPMENT.
8. FOR BASIN, ANTIPOD, OR TILLING OPERATIONS MAINTAIN INFILTRATION CAPACITY, THESE TILLED AREAS SHOULD BE RE-VEGETATED IMMEDIATELY TO PREVENT EROSION. (SEED TILLING CAN BE USED TO BREAKUP CLOTTED SURFACE LAYERS FOLLOWED BY GRADING AND LEVELING. SEED OR ORGANIC MATTER CAN BE TILLED INTO THE BASIN FLOOR TO PREPARE FOR A RESTORED INFILTRATION CAPACITY. SEDIMENT REMOVAL OPERATIONS SHOULD NOT BE UNDERTAKEN UNTIL THE INFILTRATION CAPACITY OF THE TILLED AREA HAS BEEN RE-EVALUATED. EQUIPMENT USED TO PREVENT COMPACTING OF THE REMAINING SOIL CAN BE RE-TILLED AND DISTURBED VEGETATION REPLANTED.

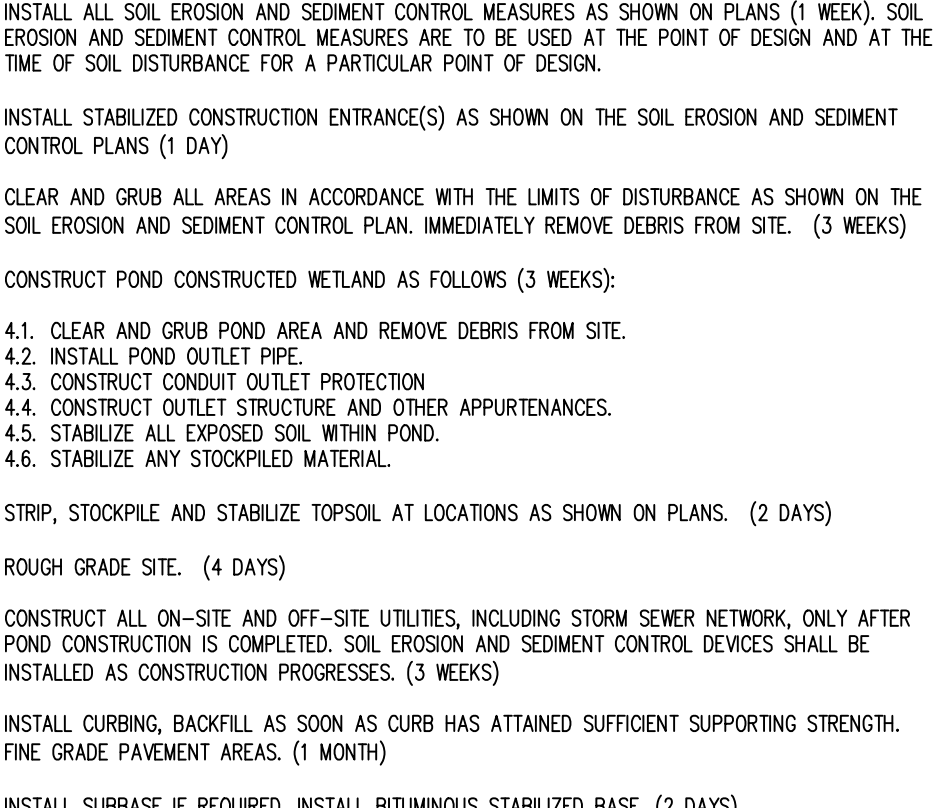
1. Subgrade soils prior to the application of topsoil (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover.
2. Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan with one (1) test per 1/2 acre.
3. Compaction testing locations are denoted on the plan. A copy of the plan or portion of the plan shall be used to mark locations of tests, and attached to the compaction mitigation verification form, available from the local soil conservation district. The contractor must be notified and submitted prior to receiving a certificate of compliance from the district.
4. In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details below), the contractor/owner shall have the option to perform either: (1) compaction mitigation over the entire mitigation area denoted on the plan (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction wherein only the excessively compacted areas would require compaction mitigation. Additional detailed testing shall be conducted by a trained, licensed professional.

Compaction Testing Methods

- A. Probing Wire Test (see detail)
- B. Hand-held Penetrometer Test (see detail)
- C. Tube Bulk Density Test (licensed professional engineer required)
- D. Nuclear Density Test (licensed professional engineer required)

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
- B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS AND WATERWAYS.

A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAINS OF STRAW, HAY OR SEEDS OR SALT HAY TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFY OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE USUAL RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.



PERFORM SUBSOIL COMPACTATION/REDEMPTION, (SCARIFICATION/BLUDGE-6" MINIMUM DEPTH)

FINE GRADE AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE MINIMUM STABILIZATION REQUIREMENTS: (3 WEEKS)

STABILIZE ANY REMAINING DISTURBED AREAS. (2 WEEKS)

INSTALL ALL SIGNS, FENCE, FLAG POLE, LIGHTING AND LANDSCAPING AS SHOWN ON THE PLANS. (2 WEEKS)

REMOVE AND REPLACE ALL BROKEN CURB, SIDEWALK AND DISTRESSED PAVEMENT. (2 WEEKS)

INSTALL SURFACE TOP COURSE PAVING AND STRIPING. (1 WEEK)

REMOVE ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES. (2 DAYS)

ESTIMATED DURATION OF CONSTRUCTION: 12 MONTHS

BY: Michael K. Ford
Michael K. Ford New Jersey Professional Engineer
No. 34722

SOMERSET COUNTY, NEW JERSEY

F:\submittals\HARLINGEN VILLAGE PLAN SET (8-12-22)\HARMM-14-17 PUMP STATION (12-26-22).DWG - Sample 3/14/2023 3:06PM

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

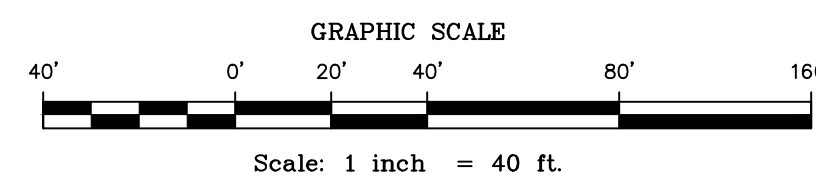
811
Know what's below.
Call before you dig.
1-800-275-1000

IT'S THE LAW!
Dig Safely.

SERIAL NO. _____

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, READ OR DRILL
THREE (3) WORKING DAYS NOTICE
NEEDED

SEWER PUMP STATION SITE PLAN
SCALE: 1"=40'



- LEGEND**
- FW FLOODWAY LIMIT LINE
 - FH FLOOD HAZARD AREA LIMIT
 - 100' MONTGOMERY TWP. BUFFER
 - RZL RIPARIAN ZONE LIMIT
 - WB WETLAND BUFFER LINE
 - SW STATE OPEN WATERS
 - WA-1 WA-2 WETLANDS DELINEATION LINE W/FLAGS
 - FM PROPOSED SEWER MAIN
 - FM PROPOSED FORCE MAIN
 - TL TREELINE
 - WB WETLAND BUFFER LINE (EXISTING)
 - WB WETLAND BUFFER LINE (PROPOSED)

WASTEWATER PUMP STATION
SEE OPTIONS A & B ON SHEETS 18 & 19
(OPTION A LAYOUT SHOWN)

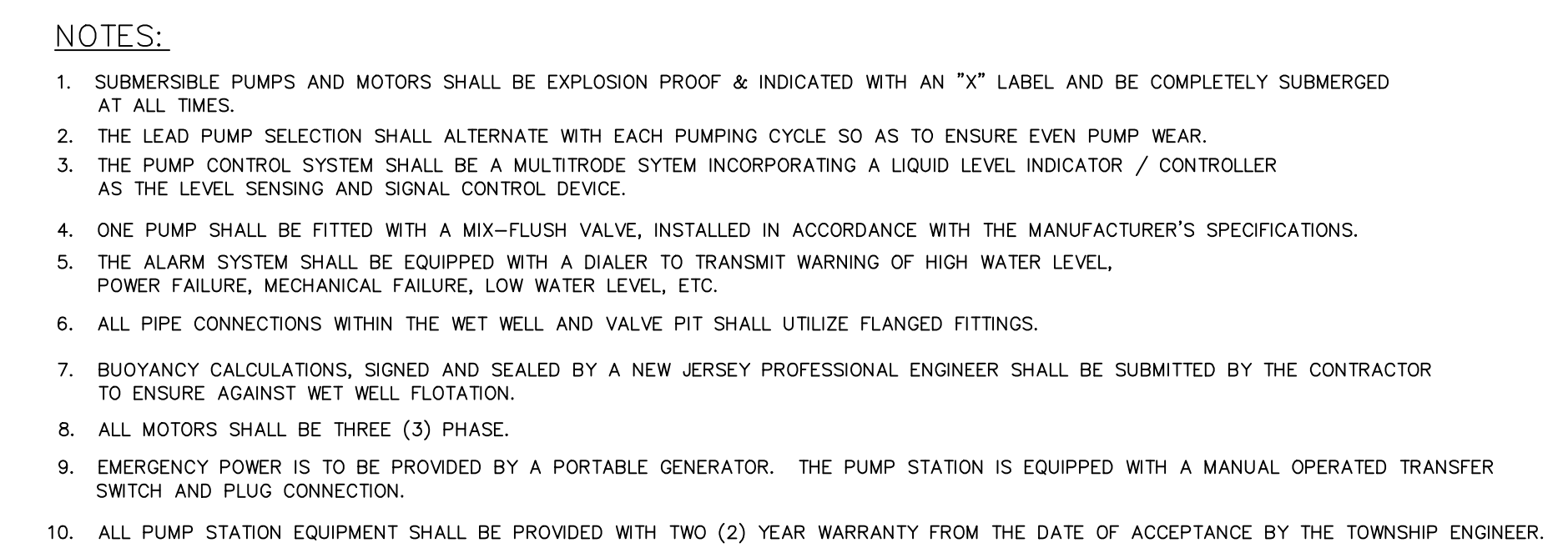
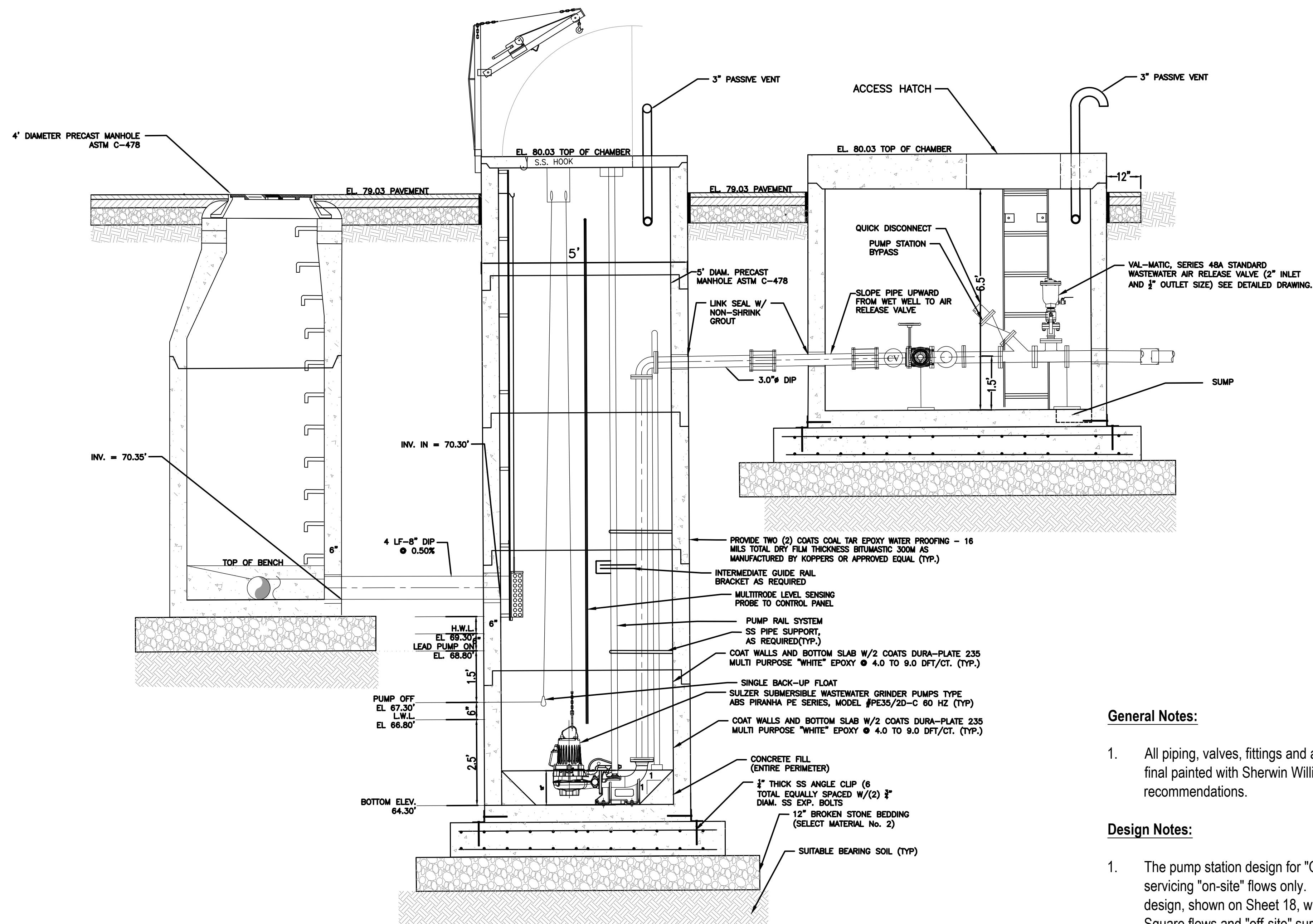
Van Cleef
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VAN CLEEF ENGINEERING ASSOCIATES, LLC
22 BROWER LANE, HELIXBOROUGH, NJ 08044
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE (609) 359-9071
CERT. OF AUTHORIZATION NO. 246A28132100

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

PUMP STATION - OVERALL SITE PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP
SOMERSET COUNTY, NEW JERSEY

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722



PUMP STATION PARAMETERS	
DESCRIPTION	
PUMP DESIGN CAPACITY (GPM)	35
FORCE MAIN EQUIVALENT LENGTH (FT)	2,482
STATIC HEAD (FT)	+12'
TOTAL DYNAMIC HEAD (FT)	+94'
FORCE MAIN DIAMETER (HDPE)	2"
VELOCITY (FPS)	3.6
WET-WELL DIAMETER (FT)	5'
VALVE CHAMBER DIMENSIONS (IN/IN)	7'X5'

OPTION B

1. The pump station design for "Option B" is based upon criteria/parameters for this pump station servicing "on-site" flows only. This is an alternative design to the "Option A" pump station design, shown on Sheet 18, which is proposed to service both the "on-site" Harlingen Village Square flows and "off-site" surrounding flows from Montgomery Township.

Van Cleef
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWER LANE, HILLSBOROUGH, NJ 08844
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PHONE (908) 359-8291
CERT. OF AUTHORIZATION NO. 246428132300

18

EXISTING CONDITIONS REGULATED AREAS SUMMARY:

TOTAL WETLANDS ON-SITE: 4.356 ACRES (189,753 SF)
 TOTAL WETLANDS OFF-SITE: 0.003 ACRES (112 SF)
 TOTAL WETLAND TRANSITION AREA ON-SITE: 2,523 ACRES (109,892 SF)
 TOTAL WETLAND TRANSITION AREA OFF-SITE: 0.003 ACRES (136 SF)

REGULATED DISTURBANCE SUMMARY (WETLANDS & TRANSITION AREAS):

GP-2 TEMPORARY TRANSITION AREA DISTURBANCE: WAIVED FOR ACCESS
 GP-2 PERMANENT TRANSITION AREA DISTURBANCE: 0.008 ACRES (359 SF)
 GP-2 PERMANENT WETLAND DISTURBANCE: 0.108 ACRES (4,716 SF)
 GP-10A PERMANENT WETLAND DISTURBANCE (ON-SITE): 0.028 ACRES (1,212 SF)
 GP-10A PERMANENT WETLAND DISTURBANCE (OFF-SITE): 0.003 ACRES (112 SF)
 GP-10A PERMANENT TRANSITION AREA DISTURBANCE (ON-SITE): WAIVED FOR ACCESS
 GP-10A PERMANENT TRANSITION AREA DISTURBANCE (OFF-SITE): WAIVED FOR ACCESS
 GP-7: PERMANENT WETLAND SWALE DISTURBANCE: 0.284 ACRES (12,381 SF)

TOTAL POST-CONSTRUCTION WETLAND AREA ON-SITE: 4.220 ACRES (183,825 SF)
 TOTAL POST-CONSTRUCTION WETLAND AREA OFF-SITE: 0.000 ACRES (0 SF)

TRANSITION AREA WAIVER AVERAGING SUMMARY:

TOTAL WETLAND TRANSITION AREA REDUCTION: 5,255 SF
 TOTAL WETLAND TRANSITION AREA COMPENSATION: 5,409 SF

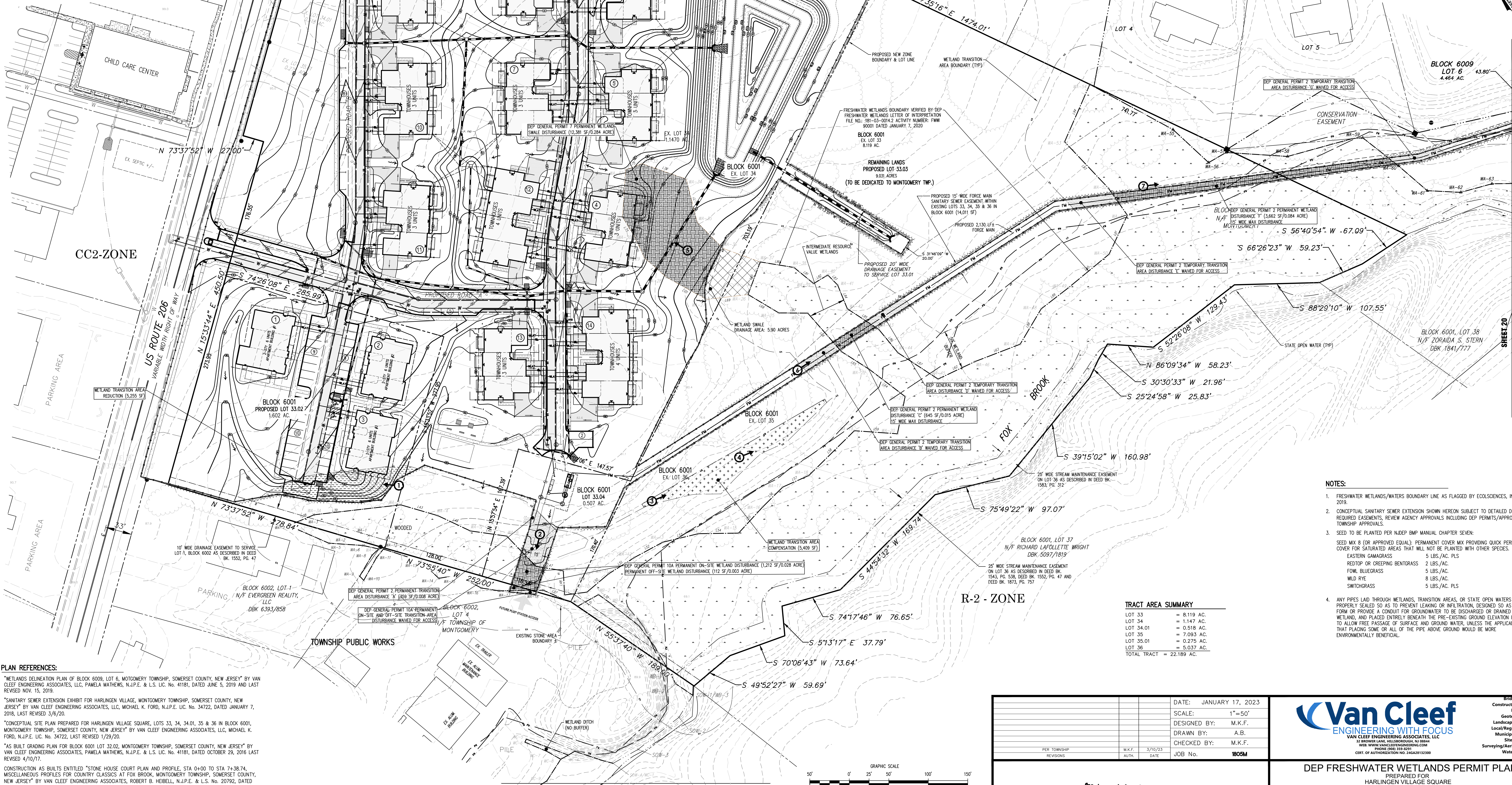
TOTAL POST-CONSTRUCTION WETLAND TRANSITION AREA ON-SITE: 2.518 ACRES (109,687 SF)
 TOTAL POST-CONSTRUCTION WETLAND TRANSITION AREA OFF-SITE: 0.003 ACRES (136 SF)

IMPERVIOUS SURFACE SUMMARY:

TOTAL LIMIT OF DISTURBANCE: 13.336 ACRES (580,932 SF)
 PROPOSED DISTURBANCE (ON-SITE): 12.827 ACRES (558,765 SF)
 PROPOSED DISTURBANCE (OFF-SITE): 0.509 ACRES (22,167 SF)
 TOTAL PROPOSED IMPERVIOUS SURFACE: 4.575 ACRES (199,283 SF)
 PROPOSED IMPERVIOUS SURFACE (ON-SITE): 4.540 ACRES (197,762 SF)
 PROPOSED IMPERVIOUS SURFACE (OFF-SITE): 0.035 ACRES (1,521 SF)
 TOTAL PROPOSED REGULATED MOTOR VEHICLE SURFACE: 2.013 ACRES (87,689 SF)
 PROPOSED REGULATED MOTOR VEHICLE SURFACE (ON-SITE): 1.978 ACRES (86,148 SF)
 PROPOSED REGULATED MOTOR VEHICLE SURFACE (OFF-SITE): 0.035 ACRES (1,521 SF)

NOTES:

- ON-SITE AREA CONSISTS OF THE ENTIRETY OF LOTS 33, 34, 34.01, 35, 35.01 AND 36 IN BLOCK 6001 AS WELL AS THE PORTIONS OF LOT 32.02 IN BLOCK 6001 AND LOT 6 IN BLOCK 6009 THAT LIE WITHIN THE LIMIT OF DISTURBANCE.
- OFF-SITE AREA CONSISTS OF THE PORTION OF LOT 4 IN BLOCK 6002 THAT LIES WITHIN THE LIMIT OF DISTURBANCE.



LEGEND:

- FM PROPOSED FORCE MAIN
- FL FLOODWAY LIMIT LINE
- FH FLOOD HAZARD AREA LIMIT
- 100' MONTGOMERY TWP. BUFFER
- R2L REPAIRING ZONE LIMIT
- VS WETLAND BUFFER LINE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- STATE OPEN WATERS
- WETLANDS DELINEATION LINE W/PLASS
- PROPOSED SANITARY SEWER EXTENSION
- PROPOSED LIMIT OF DISTURBANCE
- PHOTOGRAPH LOCATION/DIRECTION
- WETLAND AREA LOT FILE NO.: 1813-03-0014.2 FWM 90001, DATED 1/7/2020. (PLAN REF. #1)
- WETLAND SWALE AREA LOT FILE NO.: 1813-03-0014.2 FWM 90001, DATED 1/7/2020. (PLAN REF. #1)
- WETLAND AREA DISTURBANCE
- TRANSITION AREA DISTURBANCE
- TRANSITION AREA REDUCTION
- TRANSITION AREA COMPENSATION
- NON-EXCLUSIVE UTILITY EASEMENT
- N.E.A.W. EXCLUSIVE EASEMENT

TRACT AREA SUMMARY

LOT 33	= 8.119 AC.
LOT 34	= 1.147 AC.
LOT 34.01	= 0.518 AC.
LOT 35	= 7.093 AC.
LOT 35.01	= 0.275 AC.
LOT 36	= 5.037 AC.
TOTAL TRACT	= 22.189 AC.

NOTES:

- FRESHWATER WETLANDS/WATERS BOUNDARY LINE AS FLAGGED BY ECOSCIENCES, INC. IN MAY 2019.
- CONCEPTUAL SANITARY SEWER EXTENSION SHOWN HEREON SUBJECT TO DETAILED DESIGN, REQUIRED EASEMENTS, REVIEW AGENCY APPROVALS INCLUDING DEP PERMITS/APPROVALS AND TOWNSHIP APPROVALS.
- SEED TO BE PLANTED PER NJDEP BMP MANUAL CHAPTER SEVEN:
 SEED MIX 8 (OR APPROVED EQUAL): PERMANENT COVER MIX PROVIDING QUICK PERENNIAL COVER FOR SATURATED AREAS THAT WILL NOT BE PLANTED WITH OTHER SPECIES.
 EASTERN GAMAGRASS 5 LBS./AC. PLS
 REDTOP OR CREEPING BENTGRASS 2 LBS./AC.
 FOWL BLUEGRASS 5 LBS./AC.
 WILD RYE 8 LBS./AC.
 SWITCHGRASS 5 LBS./AC. PLS
- ANY PIPES LAID THROUGH WETLANDS, TRANSITION AREAS, OR STATE OPEN WATERS SHALL BE PROPERLY SEALED SO AS TO PREVENT LEAKING OR INFILTRATION, DESIGNED SO AS NOT TO FORM OR PROVIDE A CONDUIT FOR GROUNDWATER TO BE DISCHARGED OR DRAINED FROM THE WETLAND, AND PLACED ENTIRELY BENEATH THE PRE-EXISTING GROUND ELEVATION IN ORDER TO ALLOW FREE PASSAGE OF SURFACE AND GROUND WATER, UNLESS THE APPLICANT SHOWS ENVIRONMENTALLY BENEFICIAL.

PLAN REFERENCES:

- "WETLANDS DELINEATION PLAN OF BLOCK 6009, LOT 6, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. NO. 41181, DATED JUNE 5, 2019 AND LAST REVISED NOV. 15, 2019.
- "SANITARY SEWER EXTENSION EXHIBIT FOR HARLINGEN VILLAGE, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, MICHAEL K. FORD, N.J.P.E. LIC. NO. 34722, DATED JANUARY 7, 2018, LAST REVISED 3/6/20.
- "CONCEPTUAL SITE PLAN PREPARED FOR HARLINGEN VILLAGE SQUARE, LOTS 33, 34, 34.01, 35 & 36 IN BLOCK 6001, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, MICHAEL K. FORD, N.J.P.E. LIC. NO. 34722, LAST REVISED 1/29/20.
- "AS BUILT GRADING PLAN FOR BLOCK 6001 LOT 32.02, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. NO. 41181, DATED OCTOBER 29, 2016 LAST REVISED 4/10/17.
- CONSTRUCTION AS BUILTS ENTITLED "STONE HOUSE COURT PLAN AND PROFILE, STA 0+00 TO STA 7+38.74, MISCELLANEOUS PROFILES FOR COUNTRY CLASSICS AT FOX BROOK, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, ROBERT B. HEBELL, N.J.P.E. & L.S. NO. 20792, DATED SEPTEMBER 1, 2015, LAST REVISED 9/25/2015.

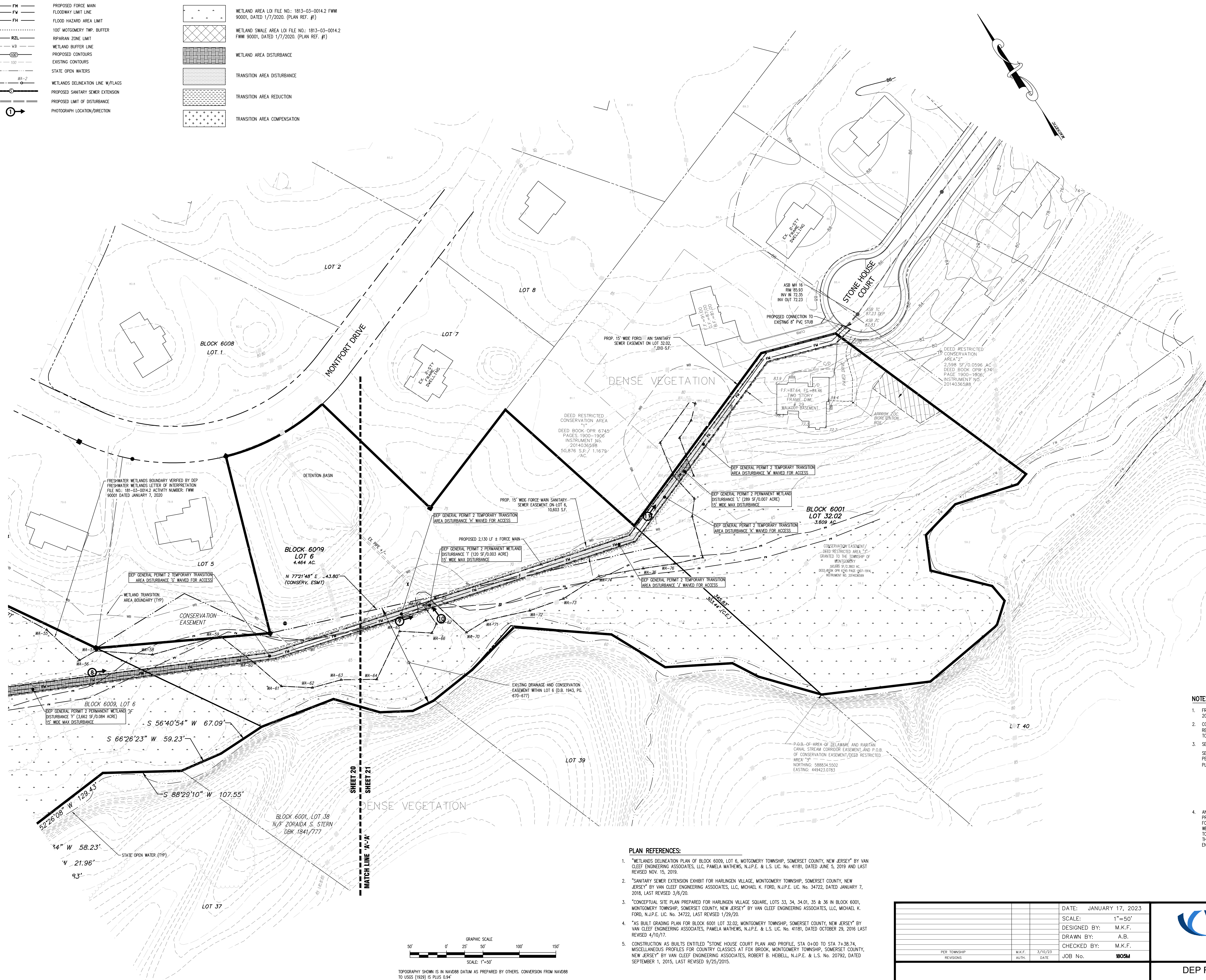
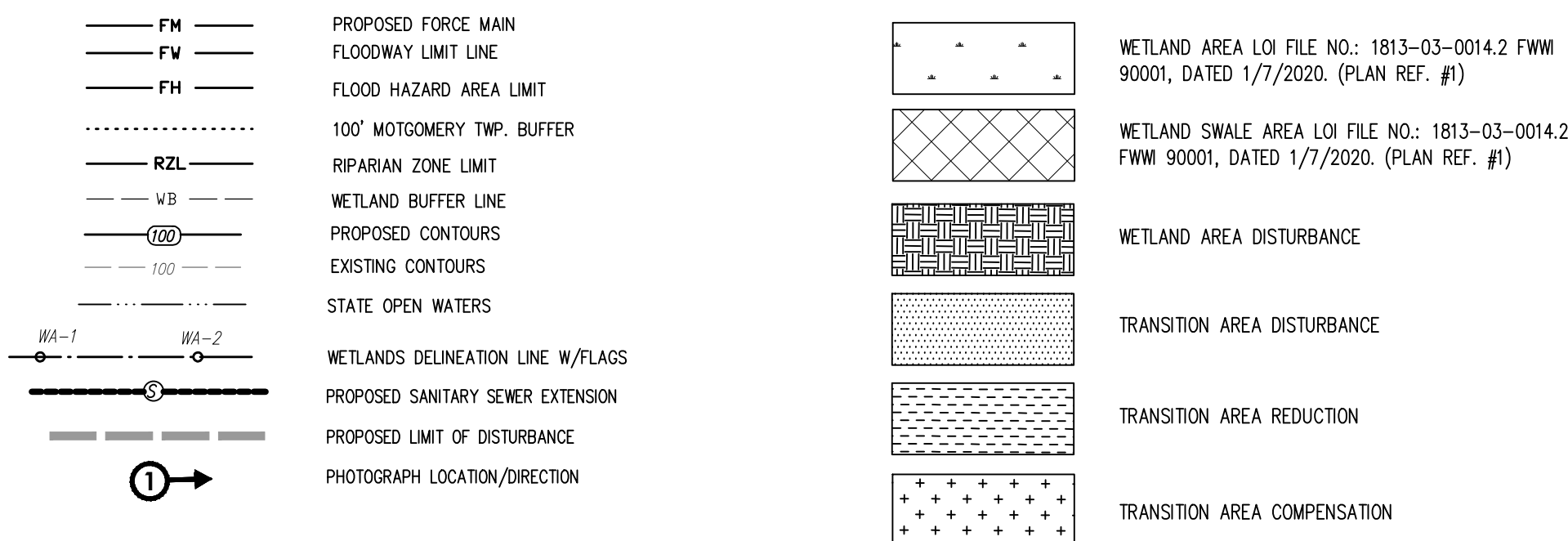
DATE:	JANUARY 17, 2023
SCALE:	1"=50'
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
JOB No.	1805M
PER TOWNSHIP:	HEAVYDUTY
M.K.F. AUTH.	3/10/23
DATE	

Michael K. Ford
 Michael K. Ford, P.E.
 Professional Engineer, New Jersey Lic. No. 34722

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 WWW.VANCLEEFENGINEERING.COM
 PHONE (201) 353-4291
 CERT. OF AUTHORIZATION NO. 34648132100

DEP FRESHWATER WETLANDS PERMIT PLAN
 PREPARED FOR
 HARLINGEN VILLAGE SQUARE
 LOTS 32.02, 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
 LOT 6 IN BLOCK 6009
 MONTGOMERY TOWNSHIP,
 SOMERSET COUNTY, NEW JERSEY

LEGEND:

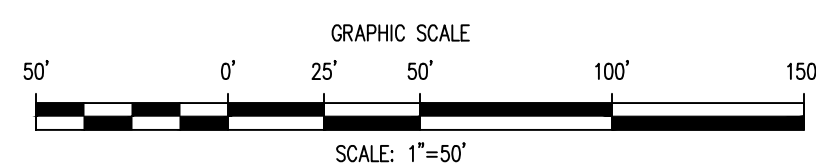


NOTES:

- FRESHWATER WETLANDS/WATERS BOUNDARY LINE AS FLAGGED BY ECOSCIENCES, INC. IN MAY 2019.
- CONCEPTUAL SANITARY SEWER EXTENSION SHOWN HEREON SUBJECT TO DETAILED DESIGN, REQUIRED EASEMENTS, REVIEW AGENCY APPROVALS INCLUDING DEP PERMITS/APPROVALS AND TOWNSHIP APPROVALS.
- SEED TO BE PLANTED PER NJDEP BMP MANUAL CHAPTER SEVEN:
SEED MIX (60% APPROVED EQUAL): PERMANENT COVER MIX PROVIDING QUICK PERENNIAL COVER FOR SATURATED AREAS THAT WILL NOT BE PLANTED WITH OTHER SPECIES:
EASTERN GAMAGRASS 5 LBS./AC. PLS
REEDTOP OR CREEPING BENTGRASS 2 LBS./AC.
FOWL BLUEGRASS 5 LBS./AC.
WILD RYE 8 LBS./AC.
SWITCHGRASS 5 LBS./AC. PLS
- ANY PIPES LAID THROUGH WETLANDS, TRANSITION AREAS, OR STATE OPEN WATERS SHALL BE PROPERLY SEALED SO AS TO PREVENT LEAKING OR INFILTRATION, DESIGNED SO AS NOT TO FORM OR PROVIDE A CONDUIT FOR GROUNDWATER TO BE DISCHARGED OR DRAINED FROM THE WETLAND, AND PLACED ENTIRELY BENEATH THE PRE-EXISTING GROUND ELEVATION IN ORDER TO ALLOW FREE PASSAGE OF SURFACE AND GROUND WATER, UNLESS THE APPLICANT SHOWS THAT PLACING SOME OR ALL OF THE PIPE ABOVE GROUND WOULD BE MORE ENVIRONMENTALLY BENEFICIAL.

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TOPOGRAPHY SHOWN IS IN NAVD83 DATUM AS PREPARED BY OTHERS. CONVERSION FROM NAVD83 TO USGS (1929) IS PLUS 0.84'

DATE:	JANUARY 17, 2023
SCALE:	1"=50'
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
DATE:	3/10/23
JOB No.	1805M

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CERT. OF AUTHORIZATION NO. 26426112100

DEP FRESHWATER WETLANDS PERMIT PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 32.02, 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
LOT 6 IN BLOCK 6009
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

EXISTING CONDITIONS REGULATED AREAS SUMMARY:

TOTAL RIPARIAN ZONE ON-SITE: 1.547 ACRES (67,387 SF)
TOTAL RIPARIAN ZONE OFF-SITE: 0.000 ACRE (0 SF)
TOTAL FLOOD HAZARD AREA ON-SITE: 3.918 ACRES (170,660 SF)
TOTAL FLOOD HAZARD AREA OFF-SITE: 0.000 ACRE (0 SF)

REGULATED DISTURBANCE SUMMARY (FLOOD HAZARD AREAS, FLOODWAY AND RIPARIAN ZONES):

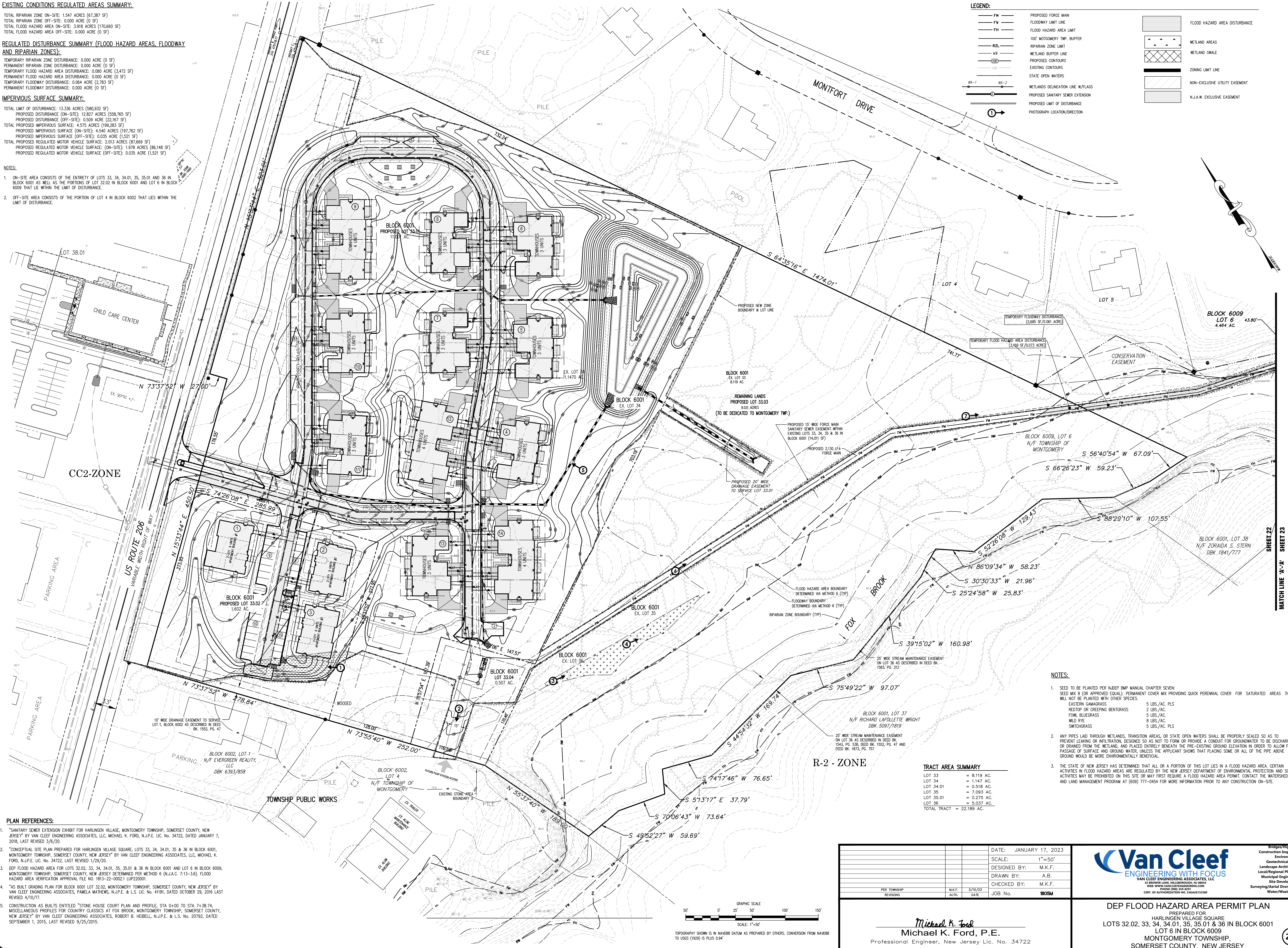
TEMPORARY RIPARIAN ZONE DISTURBANCE: 0.000 ACRE (0 SF)
PERMANENT RIPARIAN ZONE DISTURBANCE: 0.000 ACRE (0 SF)
TEMPORARY FLOOD HAZARD AREA DISTURBANCE: 0.080 ACRE (3,472 SF)
PERMANENT FLOOD HAZARD AREA DISTURBANCE: 0.000 ACRE (0 SF)
TEMPORARY FLOODWAY DISTURBANCE: 0.064 ACRE (2,783 SF)
PERMANENT FLOODWAY DISTURBANCE: 0.000 ACRE (0 SF)

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PROPOSED DISTURBANCE (ON-SITE): 12.827 ACRES (558,765 SF)
PROPOSED DISTURBANCE (OFF-SITE): 0.509 ACRE (22,167 SF)
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 - PH FLOOD HAZARD AREA LIMIT
 - 100' MONTGOMERY TWP. BUFFER
 - RZL RIPARIAN ZONE LIMIT
 - WB WETLAND BUFFER LINE
 - PROPOSED CONTOURS
 - EXISTING CONTOURS
 - STATE OPEN WATERS
 - WETLANDS DELINEATION LINE W/PLAS
 - PROPOSED SANITARY SEWER EXTENSION
 - PROPOSED LIMIT OF DISTURBANCE
 - PHOTOGRAPH LOCATION/DIRECTION
- FLOOD HAZARD AREA DISTURBANCE
 - WETLAND AREAS
 - WETLAND SWALE
 - ZONING LIMIT LINE
 - NON-EXCLUSIVE UTILITY EASEMENT
 - N.I.A.W. EXCLUSIVE EASEMENT

TRACT AREA SUMMARY


LOT 33 = 8.119 AC.
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LOT 34.01 = 0.518 AC.
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TOTAL TRACT = 22.189 AC.

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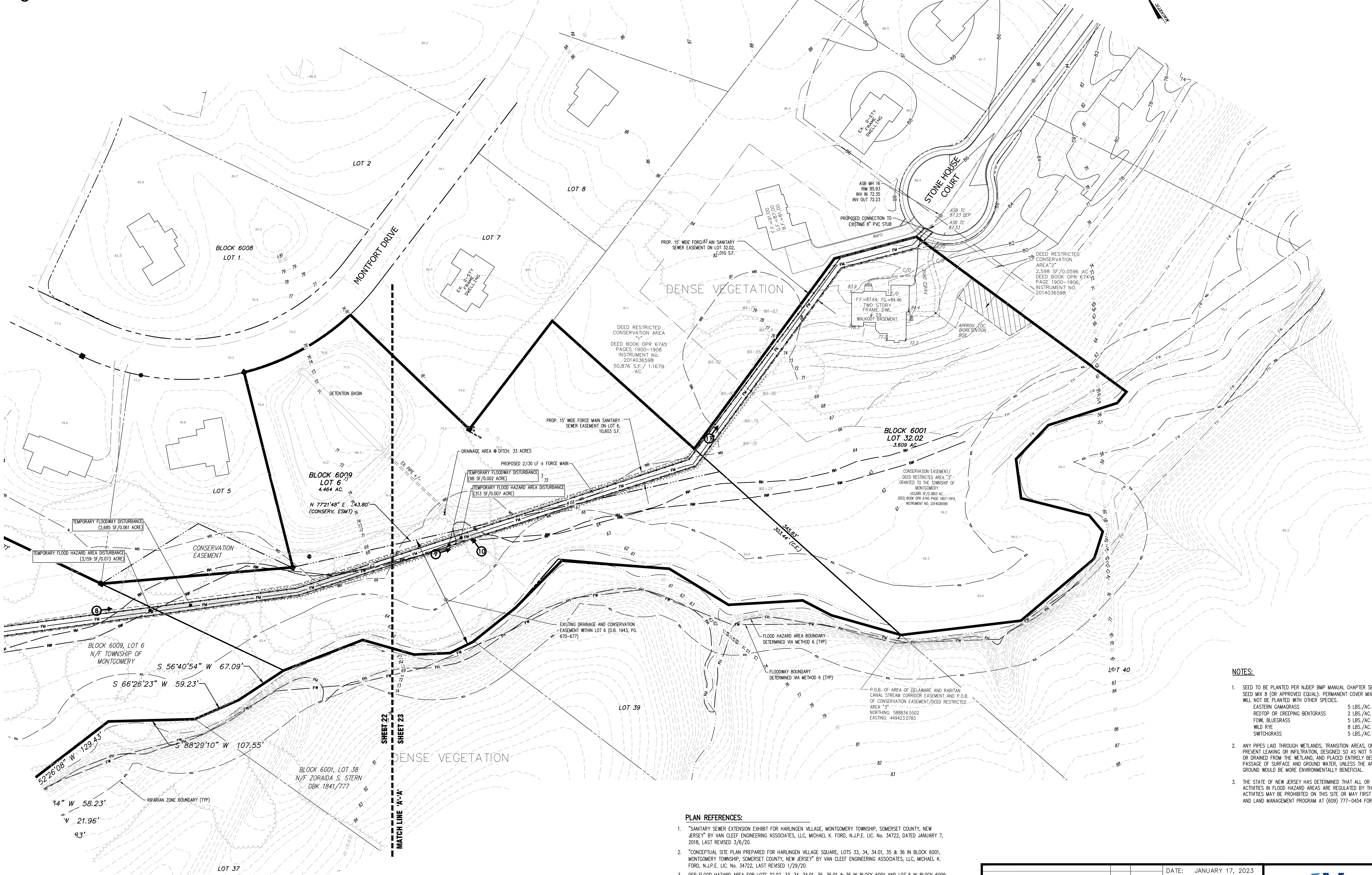
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REDTOP OR CREEPING BENTGRASS 2 LBS./AC.
FOWL BLUEGRASS 5 LBS./AC.
WILD RYE 8 LBS./AC.
SWITCHGRASS 5 LBS./AC. PLS
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- THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONTACT THE WATERSHED AND LAND MANAGEMENT PROGRAM AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON-SITE.

PLAN REFERENCES:

- "SANITARY SEWER EXTENSION EXHIBIT FOR HARLINGEN VILLAGE, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, MICHAEL K. FORD, N.J.P.E. LIC. NO. 34722, DATED JANUARY 7, 2018, LAST REVISED 3/6/20.
- "CONCEPTUAL SITE PLAN PREPARED FOR HARLINGEN VILLAGE SQUARE, LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, LLC, MICHAEL K. FORD, N.J.P.E. LIC. NO. 34722, LAST REVISED 1/29/20.
- DEP FLOOD HAZARD AREA FOR LOTS 32.02, 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001 AND LOT 6 IN BLOCK 6009, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY DETERMINED PER METHOD 6 (N.J.A.C. 7:13-3.6), FLOOD HAZARD AREA VERIFICATION APPROVAL FILE NO. 1813-22-00021, LUP220001.
- "AS BUILT GRADING PLAN FOR BLOCK 6001 LOT 32.02, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, PAMELA MATHEWS, N.J.P.E. & L.S. LIC. NO. 41181, DATED OCTOBER 26, 2016 LAST REVISED 4/10/17.
- CONSTRUCTION AS BUILTS ENTITLED "STONE HOUSE COURT PLAN AND PROFILE, STA 0+00 TO STA 7+38.74, MISCELLANEOUS PROFILES FOR COUNTRY CLASSICS AT FOX BROOK, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, ROBERT B. HEBELL, N.J.P.E. & L.S. NO. 20792, DATED SEPTEMBER 1, 2015, LAST REVISED 9/25/2015.

DATE: JANUARY 17, 2023		 VAN CLEEF ENGINEERING ASSOCIATES, LLC 32 BROWER LANE, HILLSBOROUGH, NJ 08044 WWW.VANCLEEFENGINEERING.COM PHONE (201) 353-4291 CERT. OF AUTHORIZATION NO. 146481812000	Bridges/Highways Construction Inspection Environmental Geotechnical/Dams Landscape Architecture Local/Regional Planning Municipal Engineering Site Development Surveying/Aerial Drones/GIS Water/Wastewater
SCALE: 1"=50'			
DESIGNED BY: M.K.F.			
DRAWN BY: A.B.			
CHECKED BY: M.K.F.		DATE: 3/10/23	
JOB No. 1805M			
<p>DEP FLOOD HAZARD AREA PERMIT PLAN</p> <p>PREPARED FOR</p> <p>HARLINGEN VILLAGE SQUARE</p> <p>LOTS 32.02, 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001</p> <p>LOT 6 IN BLOCK 6009</p> <p>MONTGOMERY TOWNSHIP,</p> <p>SOMERSET COUNTY, NEW JERSEY</p>			

- LEGEND:
- FM PROPOSED FORCE MAIN
 - FW FLOODWAY LIMIT LINE
 - FH FLOOD HAZARD AREA LIMIT
 - 100' MONTGOMERY TWP. BUFFER
 - RZL RIPARIAN ZONE LIMIT
 - WB WETLAND BUFFER LINE
 - 100' PROPOSED CONTOURS
 - 100' EXISTING CONTOURS
 - STATE OPEN WATERS
 - WETLANDS DELINEATION LINE W/FLAGS
 - PROPOSED SANITARY SEWER EXTENSION
 - PROPOSED LIMIT OF DISTURBANCE
 - PHOTOGRAPH LOCATION/DIRECTION



GRAPHIC SCALE

50' 0' 25' 50' 100' 150'

SCALE: 1"=50'

TOPOGRAPHY SHOWN IS IN NAVD83 DATUM AS PREPARED BY OTHERS. CONVERSION FROM NAVD83 TO USGS (1929) IS PLUS 0.94'

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- CONSTRUCTION AS BUILT ENTITLED "STONE HOUSE COURT PLAN AND PROFILE, STA 0+00 TO STA 7+38.74, MISCELLANEOUS PROFILES FOR COUNTRY CLASSICS AT FOX BROOK, MONTGOMERY TOWNSHIP, SOMERSET COUNTY, NEW JERSEY" BY VAN CLEEF ENGINEERING ASSOCIATES, ROBERT B. HEBELL, N.J.P.E. & L.S. NO. 20792, DATED SEPTEMBER 1, 2015, LAST REVISED 9/25/2015.

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CHECKED BY:	M.K.F.
JOB No.	1805M
PER TOWNSHIP	REVISED
W.K.F.	3/10/23
DATE	

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722

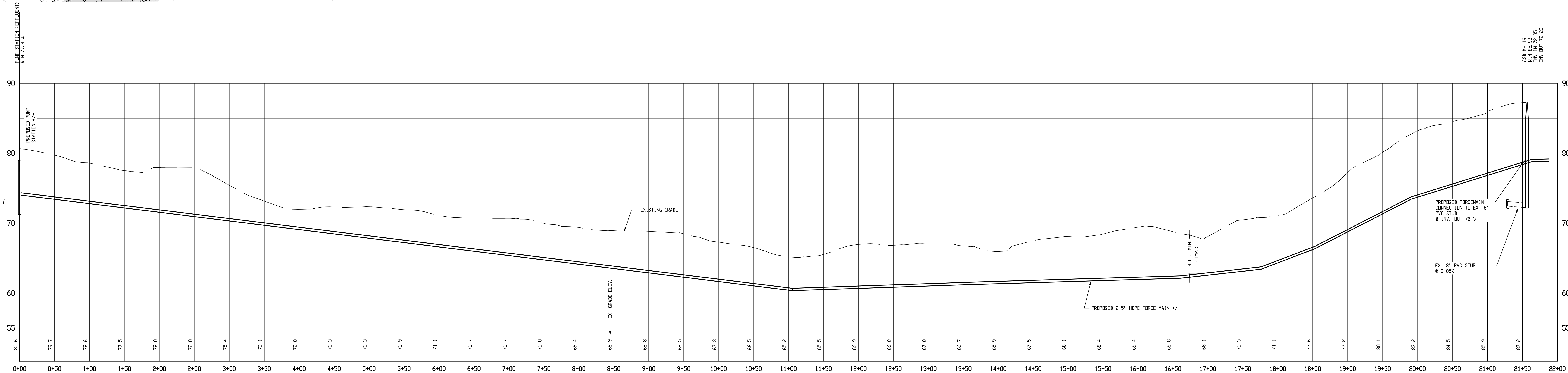
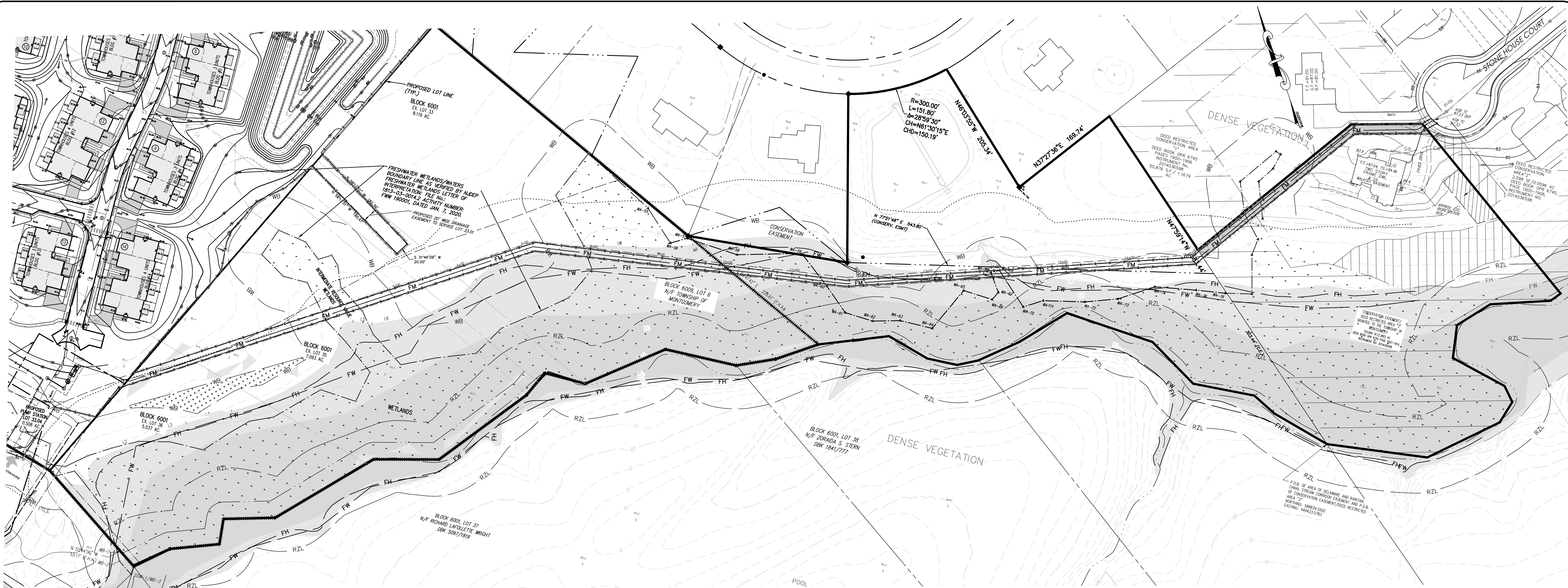
NOTES:

- SEED TO BE PLANTED PER NJDEP BMP MANUAL CHAPTER SEVEN: SEED MIX 8 (OR APPROVED EQUIV.). PERMANENT COVER MIX PROVIDING QUICK PERENNIAL COVER FOR SATURATED AREAS THAT WILL NOT BE PLANTED WITH OTHER SPECIES.
 - EASTERN GAMAGRASS 5 LBS./AC. PLS
 - REDTOP OR CREEPING BENTGRASS 2 LBS./AC.
 - FOWL BLUEGRASS 5 LBS./AC.
 - WILD RYE 8 LBS./AC.
 - SWITCHGRASS 5 LBS./AC. PLS
- ANY PIPES LAID THROUGH WETLANDS, TRANSITION AREAS, OR STATE OPEN WATERS SHALL BE PROPERLY SEALED SO AS TO PREVENT LEAKING OR INFILTRATION, DESIGNED SO AS NOT TO FORM OR PROVIDE A CONDUIT FOR GROUNDWATER TO BE DISCHARGED OR DRAINED FROM THE WETLAND, AND PLACED ENTIRELY BENEATH THE PRE-EXISTING GROUND ELEVATION IN ORDER TO ALLOW FREE PASSAGE OF SURFACE AND GROUND WATER, UNLESS THE APPLICANT SHOWS THAT PLACING SOME OR ALL OF THE PIPE ABOVE GROUND WOULD BE MORE ENVIRONMENTALLY BENEFICIAL.
- THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONTACT THE WATERSHED AND LAND MANAGEMENT PROGRAM AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON-SITE.

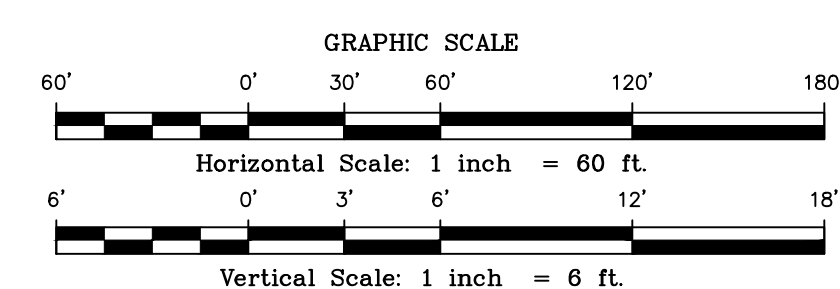
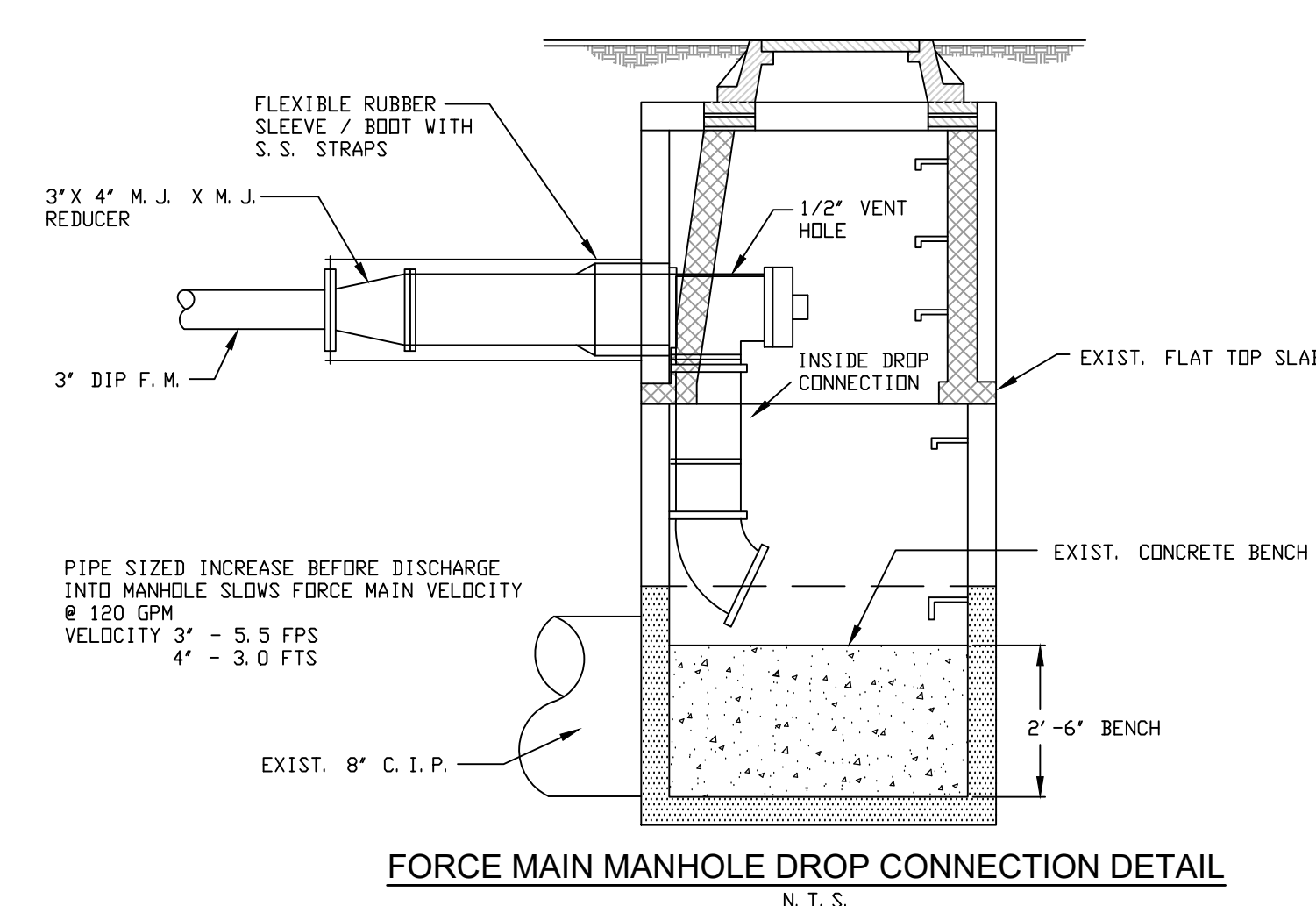
Van Cleef
ENGINEERING WITH FOCUS
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52 BROWER LANE, HILLSBOROUGH, NJ 08064
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PHONE: (609) 559-8201
CERT. OF AUTHORIZATION NO. 36426X121280

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
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DEP FLOOD HAZARD AREA PERMIT PLAN
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- LEGEND**
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 - 100' MONTGOMERY TWP. BUFFER
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 - WB WETLAND BUFFER LINE
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 - EXISTING CONTOURS
 - STATE OPEN WATERS
 - WETLANDS DELINEATION LINE W/FLAGS
 - ZONING LIMIT LINE



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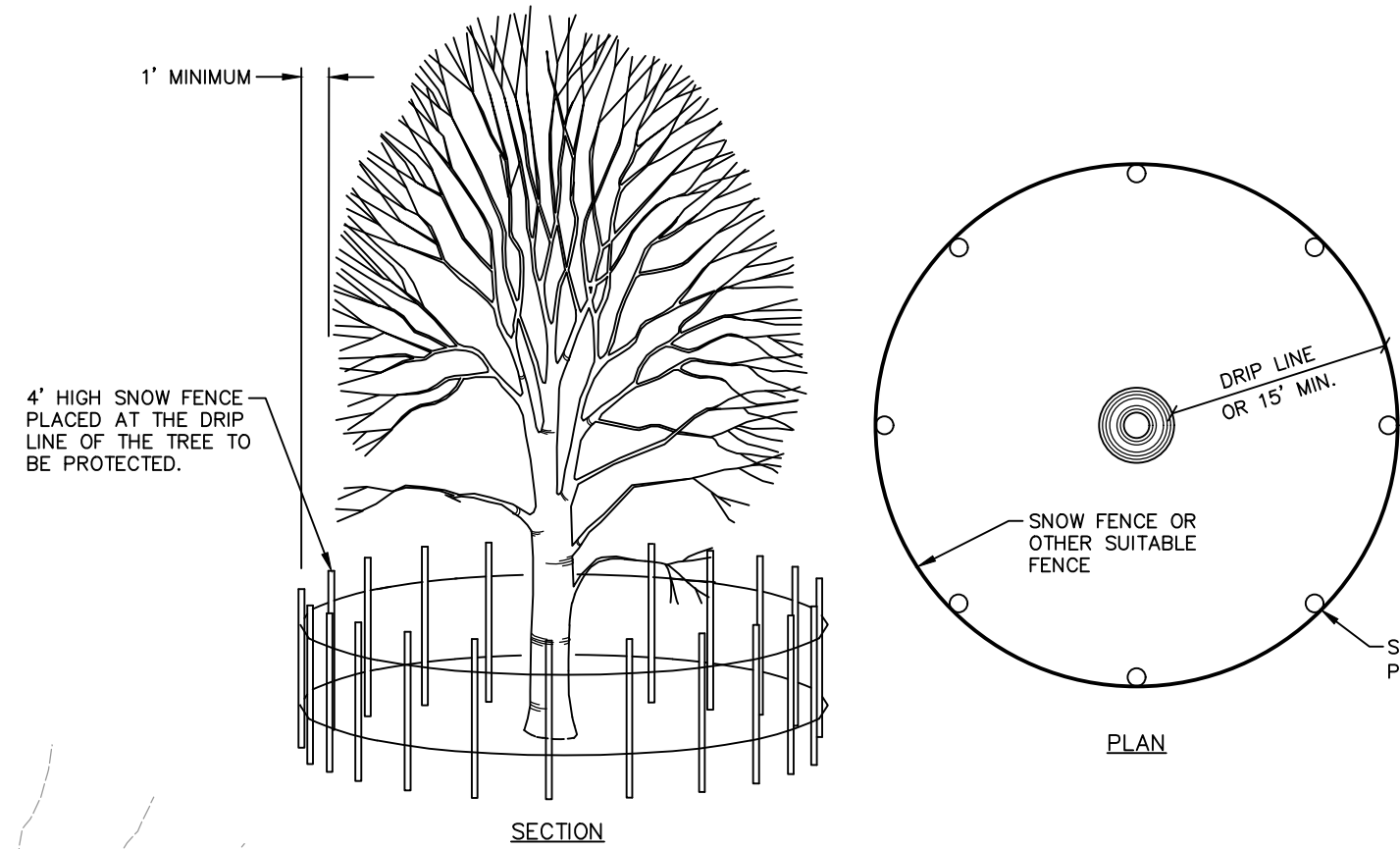
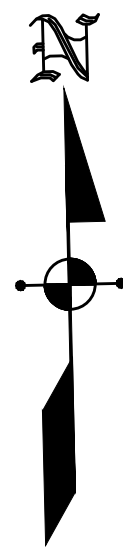
Van Cleaf
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Bridges/Highways
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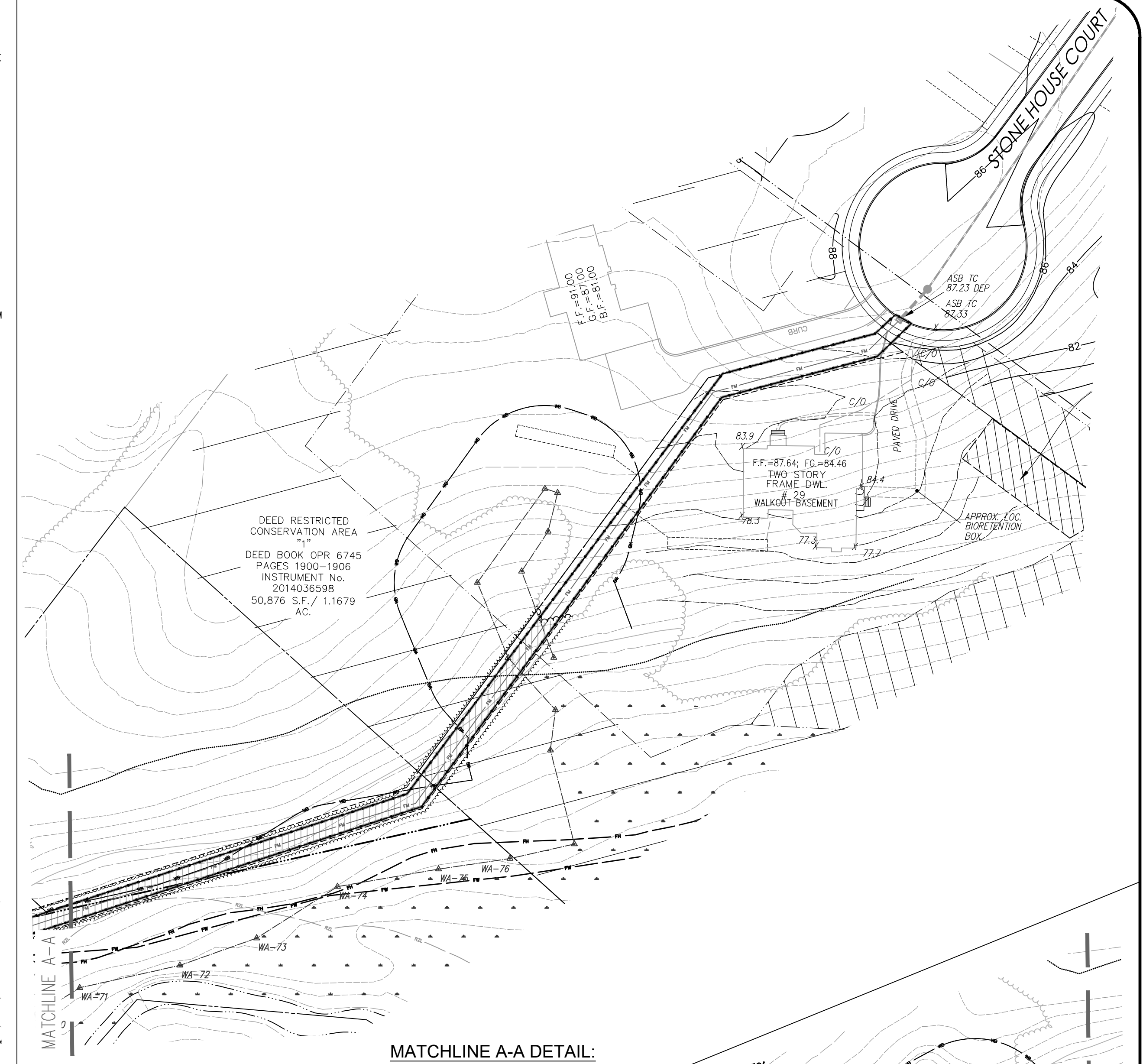
SANITARY SEWER FORCE MAIN EXTENSION PROFILE

PREPARED FOR
 HARLINGEN VILLAGE SQUARE
 LOTS 32.02, 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
 LOT 6 IN BLOCK 6009
 MONTGOMERY TOWNSHIP,
 SOMERSET COUNTY, NEW JERSEY



TREE PROTECTION DETAIL
(NOT TO SCALE)

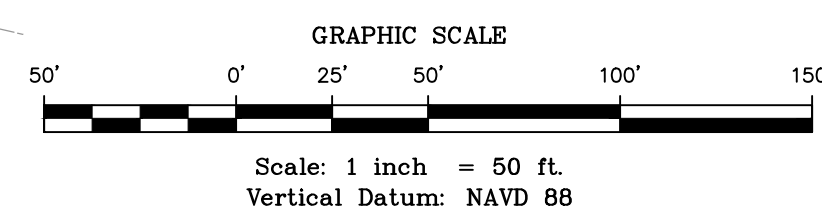
1. TREE PROTECTION SHALL BE PROVIDED FOR ANY AND ALL TREES TO BE PRESERVED DURING AND AFTER CONSTRUCTION.
2. ALL TREES DESIGNED TO REMAIN SHALL BE MARKED. WHERE GROUPS OF TREES EXIST, ONLY THE TREES ON THE EDGE NEED TO BE MARKED.
3. 4' HIGH SNOW FENCE OR OTHER SUITABLE FENCE MOUNTED ON STEEL POSTS LOCATED EIGHT (8) FEET ON CENTER, SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION AREA.
4. ALL EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE BY SNOW FENCING. ALL FENCING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY, OR 15 FEET FROM THE TRUNK OF THE TREE TO BE RETAINED, WHICHEVER IS GREATER. AT THE SPECIFIC LOCATION DETERMINED APPROPRIATE BY THE LANDSCAPE ARCHITECT, ALL TREES TO REMAIN SHALL BE IDENTIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION, GRADING OR CLEARING. ALL EXISTING VEGETATION BEING PRESERVED AND LOCATED AT THE EDGE OF THE NEW TREELINE SHALL BE PRUNED AND TRIMMED TO REMOVE DEAD OR DAMAGED BRANCHES. SEE DETAILS FOR TREE PRESERVATION THIS SHEET.
5. WHEN THE FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED AND APPROVED BY THE TOWNSHIP PRIOR TO COMMENCING CLEARING AND FURTHER CONSTRUCTION. THE FENCING ALONG THE PROTECTION AREA SHALL BE MAINTAINED UNTIL ALL WORK AND CONSTRUCTION HAS BEEN COMPLETED. ANY DAMAGES TO THE PROTECTIVE FENCING SHALL BE REPLACED AND REPAIRED BEFORE FURTHER CONSTRUCTION SHALL CONTINUE.
6. TREES BEING REMOVED SHALL NOT BE FELLED, PUSHED OR PULLED INTO A TREE PROTECTION AREA OR INTO TREES THAT ARE TO BE RETAINED.
7. GRADE CHANGES AND EXCAVATIONS SHALL NOT ENCROACH UPON THE TREE PROTECTION AREA.
8. NO TOXIC MATERIALS SHALL BE STORED WITHIN ONE HUNDRED (100) FEET OF A TREE PROTECTION AREA INCLUDING PETROLEUM BASED AND/OR DERIVED PRODUCTS.
9. TREES WITHIN THE TREE PROTECTION AREA SHALL NOT BE BUILT UPON NOR SHALL ANY MATERIALS BE STORED THERE EITHER TEMPORARILY OR PERMANENTLY. VEHICLES AND EQUIPMENT SHALL NOT BE PARKED IN THE TREE PROTECTION AREA.
10. WHEN TREE STUMPS ARE LOCATED WITHIN TEN (10) FEET OF THE TREE PROTECTION AREA, THE STUMPS SHALL BE REMOVED BY MEANS OF A STUMP GRINDER TO MINIMIZE THE EFFECT ON THE SURROUNDING ROOT SYSTEMS.
11. TREE ROOTS WHICH MUST BE SEVERED SHALL BE CUT BY A BACK HOE OR SIMILAR EQUIPMENT ALIGNED RADIAL TO THE TREE. THIS METHOD REDUCES THE LATERAL MOVEMENT OF THE ROOTS DURING EXCAVATION, WHICH IF DONE BY OTHER METHODS COULD DAMAGE THE INTERMEDIATE ROOTS OF ADJACENT TREES.
12. TREES SHALL NOT BE USED FOR ROPING, CABLES, SPOKE OR FENCING. NAILS AND SPICES SHALL NOT BE DRIVEN INTO TREES.
13. ANY SEVERED ROOTS AS A RESULT OF EXCAVATION SHALL BE TRIMMED SO THAT THEIR EDGES ARE SMOOTH AND ARE CUT BACK TO A LATERAL ROOT IF EXPOSED.
14. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE. DAMAGED BRANCHES SHALL BE PRUNED ACCORDING TO NATIONAL ARBORIST ASSOCIATION STANDARDS. ALL CUTS SHALL BE MADE SUFFICIENTLY CLOSE TO THE TRUNK OR PARENT LIMB BUT WITHOUT CUTTING INTO THE BRANCH COLLAR OR LEAVING A PROTRUDING STUB. ALL NECESSARY PRUNING CUTS MUST BE MADE TO PREVENT BARK FROM BEING TORN FROM THE TREE AND TO FACILITATE RAPID HEALING.
15. ALL TREES WHICH HAVE BEEN DISTURBED OR HAVE EXPERIENCED DAMAGE TO THEIR ROOTS OR BRANCHES SHALL BE FERTILIZED. TREES SHALL BE FERTILIZED IN EARLY FALL OR WINTERING. FERTILIZER GRADE SHALL HAVE APPROXIMATELY THREE (3) PARTS NITROGEN TO ONE (1) PART PHOSPHOROUS AND ONE (1) PART POTASSIUM (RATIO OF 3:1:1). FERTILIZER SHALL BE BROADCAST OVER THE SOIL SURFACE IN AN AREA TWICE THE SIZE OF THE TREE PROTECTION AREA AT A RATE OF ONE (1) POUND OF NITROGEN PER ONE THOUSAND (1000) SQUARE FEET.
16. WHEN THERE IS NO ALTERNATIVE BUT TO LOCATE AN ELECTRICAL OR OTHER SMALL UTILITY LINE WITHIN A TREE PROTECTION AREA, THE TOWNSHIP SHALL DETERMINE THE MOST DESIRABLE LOCATION FOR THE LINE AND THE FOLLOWING GUIDELINES SHALL BE USED:
17. (1) WHERE POSSIBLE, TRENCHES SHOULD BYPASS THE ROOT AREA.
18. (2) WHERE TRENCHES MUST BE DUG PAST THE SIDE OF A TREE, THE FOLLOWING PRECAUTIONS SHALL BE OBSERVED:
 - a) TRENCHES SHALL BE NO CLOSER TO THE TRUNK THAN HALF THE DISTANCE FROM THE DRIP LINE
 - b) CUT AS FEW ROOTS AS POSSIBLE
 - c) IF ROOTS HAVE TO BE CUT, CUT THEM AS CLEANLY AS POSSIBLE
 - d) BACKFILL THE TRENCH AS SOON AS POSSIBLE, AVOIDING SOIL COMPACTION



MATCHLINE A-A DETAIL:

LEGEND:

- FW FLOODWAY LIMIT LINE
- FL FLOOD HAZARD AREA LIMIT
- 100' MONTGOMERY TWP. BUFFER
- RZL RIPARIAN ZONE LIMIT
- WB WETLAND BUFFER LINE
- EXISTING CONTOURS
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREELINE
- PROPOSED TREELINE
- REMOVED TREELINE
- LIMIT OF WORK
- WOODED AREA ON SITE
- WOODED AREA TO BE REMOVED
- SILT FENCE
- WETLANDS DELINEATION LINE W/FLAGS



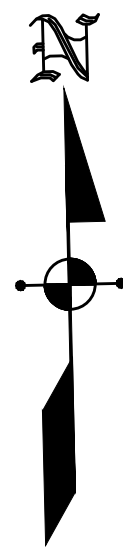
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			18-05-M

BY: *Justin M. Tyler*
Justin M. Tyler, R.L.A. Licensed Landscape Architect,
New Jersey Lic. No. 21AS00138600

DATE: JANUARY 17, 2023
SCALE: 1"= 50'
DESIGNED BY: J.M.T.
DRAWN BY: J.M.T.
CHECKED BY: M.K.F.

Van Cleef
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
12 BROWN LANE, LINDENHURST, NJ 08036
WWW.VANCLEEFENGINEERING.COM
PHONE 609-562-8521
CERT. OF AUTHORIZATION NO. 246A28132300

TREE REMOVAL PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY



LANDSCAPE LEGEND:

SYMBOL	BOTANICAL NAME	COMMON NAME
SHADE TREES		
AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE
BN	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH
NS	NYSSA SYLVATICA	BLACKGUM
LS	LIQUIDAMBAR STYRACIFLUA	SWEETGUM
LT	LIRIODENDRON TULIPIFERA	TULIP TREE
PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE
QB	QUERCUS BICOLOR	SWAMP WHITE OAK
EVERGREEN TREES		
PG	PICEA GLAUCA	WHITE SPRUCE
PS	PINUS STROBUS	WHITE PINE
MV	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA
ORNAMENTAL/UNDERSTORY TREES		
CF	CORNUS FLORIDA 'APPALACHIAN SPRING'	FLOWERING DOGWOOD
SHRUBS AND GROUNDCOVER		
AU	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
CP	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE
CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA
CS	CORNUS SERICA	RED TWIG DOGWOOD
IGS	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERY
JH	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER
KL	KALMIA LATIFOLIA 'RASPBERRY GLOW'	MOUNTAIN LAUREL
MC	MULLENBERGIA CAPILLARIS	MULHY GRASS
POND PLANTINGS		
	ERNST SEED MIX - ERNMX-127 RETENTION BASIN WILDLIFE MIX	
	ZONE 3: SHORELINE FRINGE DEPTH 0'-6"	
	ZONE 2: SHALLOW WATER BENCH INUNDATION DEPTH 6"-12"	
	ZONE 1: DEEP WATER POOL PERMANENT INUNDATION DEPTH 1'-4'	

16-4-14c SITE SPECIFIC INCLUSIONARY ZONE 3 (SSIZ-3)

12.c NO LESS THAN 20% OF ALL PORTIONS OF SITE NOT COVERED BY BUILDING OR STRUCTURES SHALL BE SUITABLY LANDSCAPED. (INCLUDES THE INFILTRATION BASIN)
OPEN SPACE AREA: 296,000 SF
LANDSCAPE AREA REQUIRED: 59,200 SF OF LANDSCAPE
LANDSCAPE AREA PROVIDED: 60,000 SF OF LANDSCAPE

16-5.6 NATURAL FEATURES

d.3 REQUIRED 14 TREES PER ACRE, 13.32 ACRES OF DEVELOPMENT X 14 TREES
REQUIRED TREES: 187 TREES
PROVIDED TREES: 187 TREES

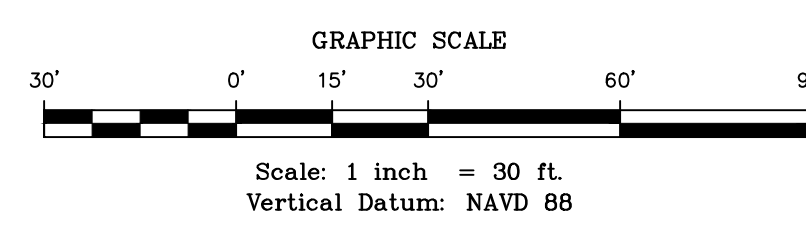
▲ d.15 STREET TREES AT 50' INTERVALS ALONG 925 LINEAR FEET OF ROADWAY
FRONTAGE
REQUIRED TREES: 19 TREES
PROVIDED TREES: 19 TREES

16-5.8 a.3 OFF-STREET PARKING LANDSCAPING

a.1 A 4' HEDGE ROW OF INKBERY HOLLIES ARE LOCATED BETWEEN THE PARKING AREA AND THE STREET LINE FOR THE PARKING AREA LESS THAN 150 FT FROM STREET LINE.
a.3 EACH OFF-STREET PARKING AREA SHALL HAVE A MINIMUM AREA EQUIVALENT TO ONE PARKING SPACE (180 SF) PER EVERY 30 SPACES LANDSCAPED. 38 PARKING SPACES PROVIDED IN PARKING LOT
REQUIRED LANDSCAPE: 228 SF OF LANDSCAPE
PROVIDED LANDSCAPE: 300 SF OF LANDSCAPE

LEGEND

FM	PROPOSED FORCE MAIN SEWER
FW	FLOODWAY LIMIT LINE
FN	FLOOD HAZARD AREA LIMIT
100'	100' MONTGOMERY TWP. BUFFER
RZL	RIPARIAN ZONE LIMIT
WE	WETLAND BUFFER LINE
WE	PROPOSED CONTOURS
100'	EXISTING CONTOURS
	EXISTING TREELINE
	PROPOSED TREELINE
	LIMIT OF WORK
	WETLANDS DELINEATION LINE W/FLACS
	SILT FENCE
	PROPOSED INLET PROTECTION
	PROPOSED LIGHT
	WETLAND AREAS
	GOOSE FENCING
	MONOFILAMENT LINE



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PER TOWNSHIP: M.K.F. 03/10/23
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CHECKED BY: M.K.F.

BY: Justin M. Tyler, R.L.A.
Licensed Landscape Architect,
New Jersey Lic. No. 21AS00138600

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BRIDGES/HIGHWAYS
CONSTRUCTION INSPECTION
ENVIRONMENTAL
GEOTECHNICAL/DAMS
LANDSCAPE ARCHITECTURE
LOCAL/REGIONAL PLANNING
SITE DEVELOPMENT
SURVEYING/AERIAL DRONES/GIS
WATER/WASTEWATER

LANDSCAPE PLAN - NORTH
PREPARED FOR
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SHRUBS AND GROUND COVER		
AU	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
CP	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE
CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA
CS	CORNUS SERICEA	RED TWIG DOGWOOD
IGS	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY
JH	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER
KL	KALMIA LATIFOLIA 'RASPBERRY GLOW'	MOUNTAIN LAUREL
MC	MUHLENBERGIA CAPILLARIS	MULLY GRASS

16-4-14c SITE SPECIFIC INCLUSIONARY ZONE 3 (SSIZ-3)

12.c NO LESS THAN 20% OF ALL PORTIONS OF SITE NOT COVERED BY BUILDING OR STRUCTURES SHALL BE SUITABLY LANDSCAPED. (INCLUDES THE INFILTRATION BASIN)
OPEN SPACE AREA: 296,000 SF

LANDSCAPE AREA REQUIRED: 59,200 SF OF LANDSCAPE
LANDSCAPE AREA PROVIDED: 60,000 SF OF LANDSCAPE

16-5.6 NATURAL FEATURES

d.3 REQUIRED 14 TREES PER ACRE, 13.32 ACRES OF DEVELOPMENT X 14 TREES
REQUIRED TREES: 187 TREES
PROVIDED TREES: 187 TREES

d.15 STREET TREES AT 50' INTERVALS ALONG 925 LINEAR FEET OF ROADWAY
FRONTAGE
REQUIRED TREES: 19 TREES
PROVIDED TREES: 19 TREES

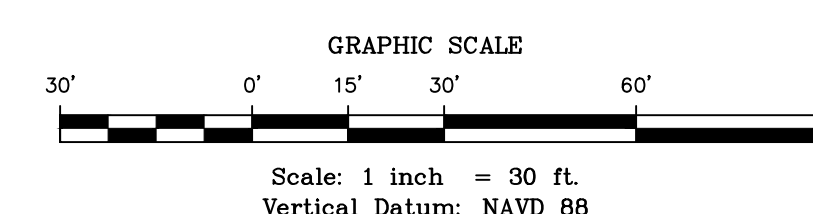
16-5.8 d.3 OFF-STREET PARKING LANDSCAPING

d.1 A 4' HEDGE ROW OF INKBERRY HOLLIES ARE LOCATED BETWEEN THE PARKING AREA AND THE STREET LINE FOR THE PARKING AREA LESS THAN 150 FT FROM STREET LINE.

d.3 EACH OFF-STREET PARKING AREA SHALL HAVE A MINIMUM AREA EQUIVALENT TO ONE PARKING SPACE (180 SF) PER EVERY 30 SPACES LANDSCAPED. 38 PARKING SPACES PROVIDED IN PARKING LOT
REQUIRED LANDSCAPE: 228 SF OF LANDSCAPE
PROVIDED LANDSCAPE: 300 SF OF LANDSCAPE

LEGEND

FM	PROPOSED FORCE MAIN SEWER
FW	FLOODWAY LIMIT LINE
FH	FLOOD HAZARD AREA LIMIT
100'	100' MONTGOMERY TWP. BUFFER
RZL	RIPARIAN ZONE LIMIT
WB	WETLAND BUFFER LINE
PROPOSED CONTOURS	PROPOSED CONTOURS
EXISTING CONTOURS	EXISTING CONTOURS
EXISTING TREELINE	EXISTING TREELINE
PROPOSED TREELINE	PROPOSED TREELINE
LIMIT OF WORK	LIMIT OF WORK
WETLANDS DELINEATION LINE W/FLAGS	WETLANDS DELINEATION LINE W/FLAGS
SILT FENCE	SILT FENCE
PROPOSED INLET PROTECTION	PROPOSED INLET PROTECTION
PROPOSED LIGHT	PROPOSED LIGHT
WETLAND AREAS	WETLAND AREAS
WETLAND BUFFER COMPENSATION	WETLAND BUFFER COMPENSATION
WETLAND BUFFER REDUCTION	WETLAND BUFFER REDUCTION



DATE:	JANUARY 17, 2023
SCALE:	1"= 30'
DESIGNED BY:	J.M.T.
DRAWN BY:	J.M.T.
CHECKED BY:	M.K.F.
PER TOWNSHIP	M.K.F. 03/10/23
REVISIONS	AUTH. DATE JOB No. 16-05-M

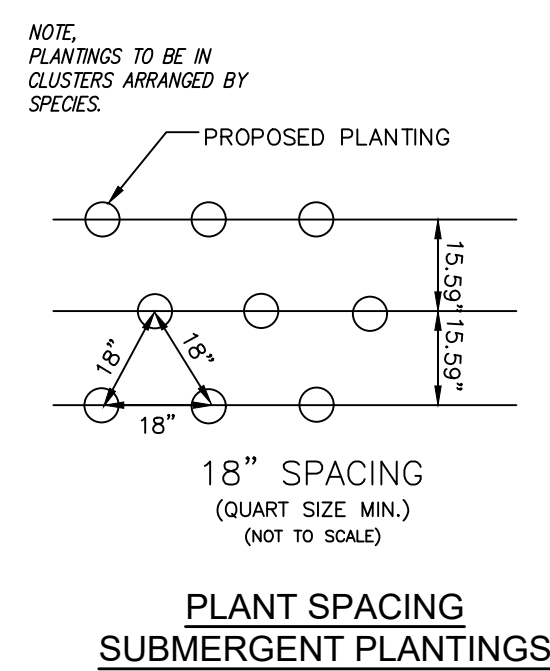
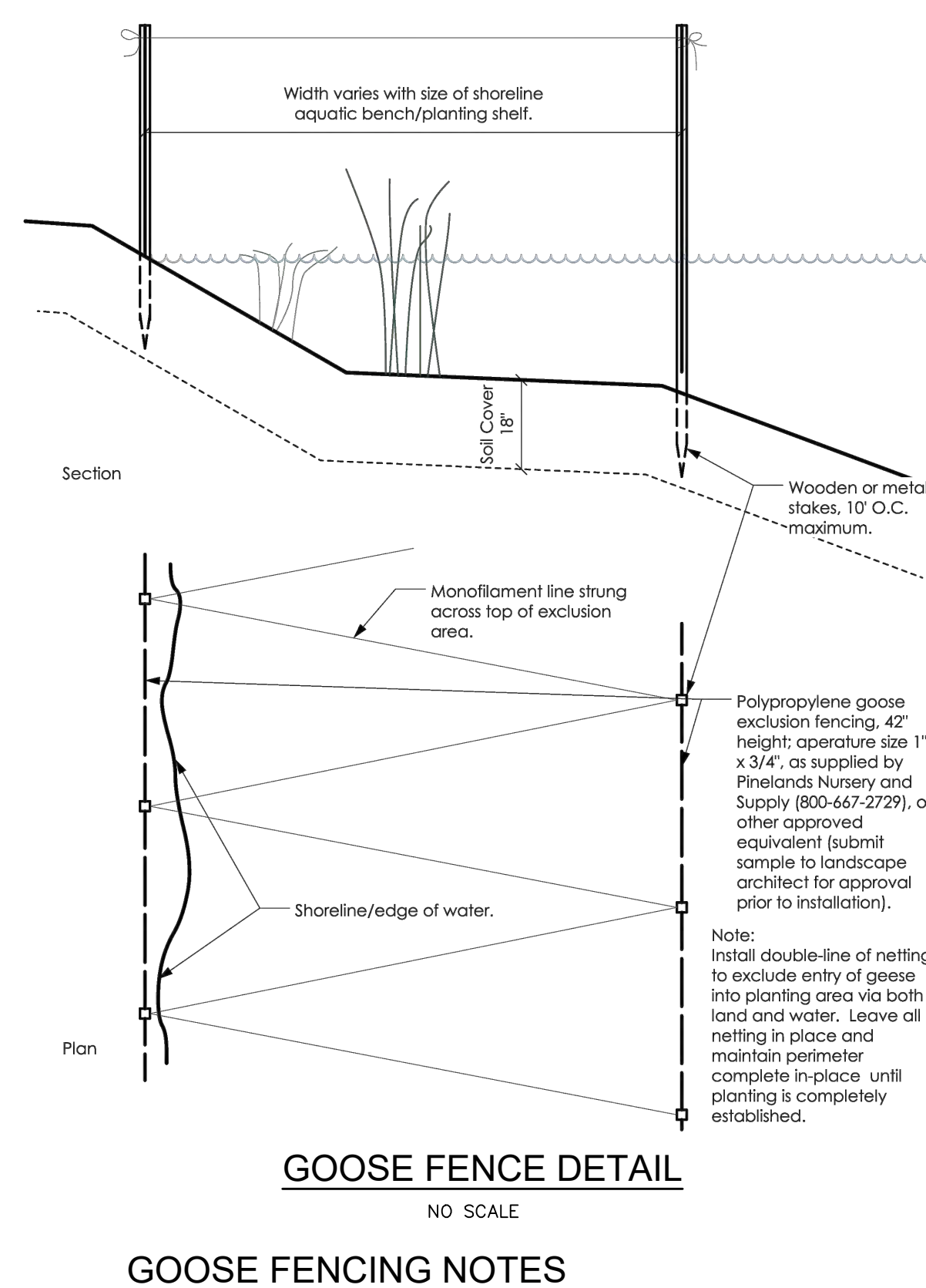
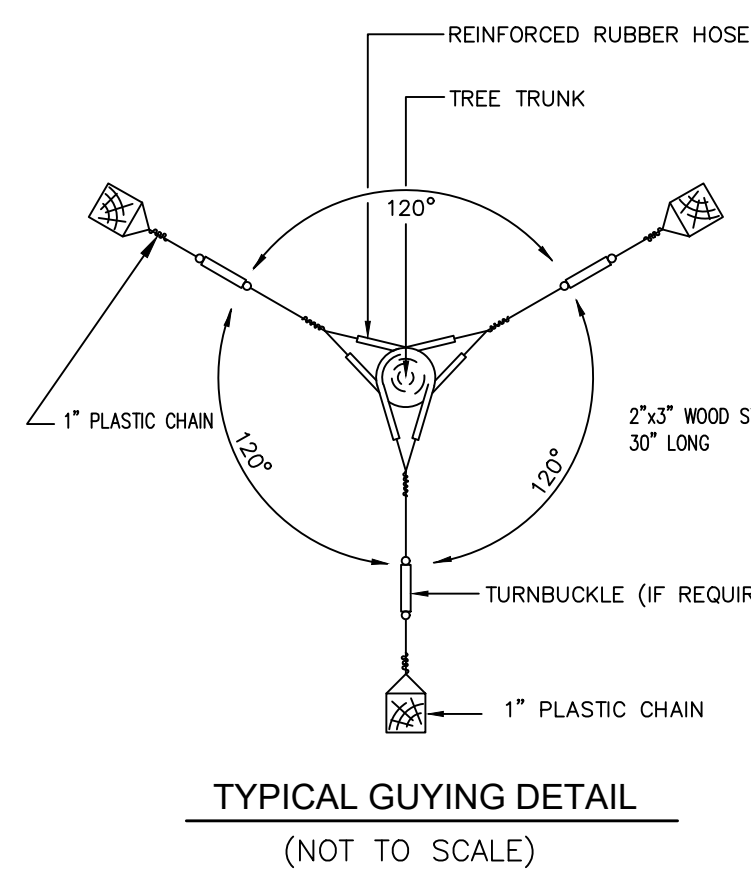
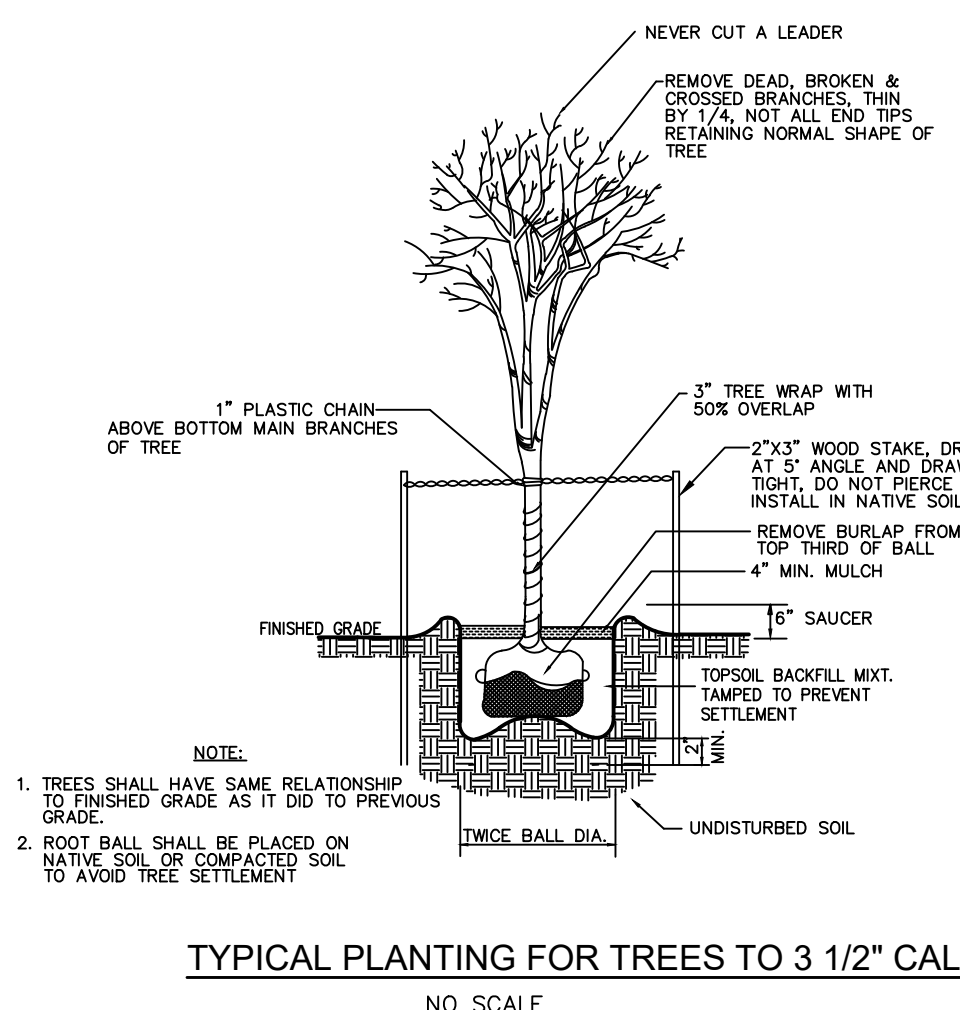
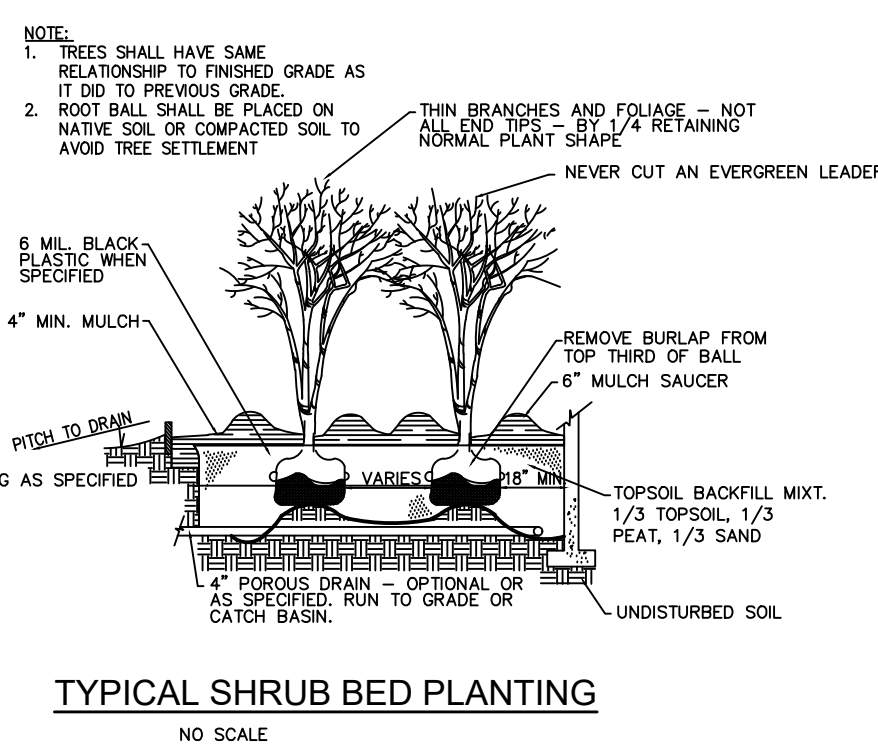
BY: *Justin M. Tyler*
Justin M. Tyler, R.L.A.
Licensed Landscape Architect,
New Jersey Lic. No. 21AS00138600

Van Cleaf
ENGINEERING WITH FOCUS

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CERT. OF AUTHORIZATION NO. 246A0132300

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

LANDSCAPE PLAN - SOUTH
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY



1. ALL PLANTS SHALL BE TYPICAL FOR THEIR SPECIES OR VARIETY, AND SHALL HAVE NORMAL, WELL-DEVELOPED BRANCHES AND VIGOROUS FIBROUS ROOT SYSTEMS. ALL PLANTS SHALL BE NURSERY-GROWN UNLESS OTHERWISE STATED; THEY SHALL HAVE BEEN GROWN UNDER THE CLOSEST SUPERVISION OF A PERSON QUALIFIED TO JUDGE THE QUALITY OF THE PLANTS. ALL PLANTS WHICH ARE FOUND UNSUITABLE IN GROWTH OR CONDITION OR WHICH ARE NOT TRUE TO NAME SHALL BE REMOVED AND REPLACED AT THE DEVELOPER'S EXPENSE.
2. ALL PLANT MATERIAL SHALL BE TWICE TRANSLATED, NURSERY-GROWN OF SPECIMEN QUALITY. THEY SHALL BE OF SYMMETRICAL GROWTH OR TYPE OF THE VARIETY AND SUPPLIED FROM SOURCES IN THE SAME HARDINESS ZONE AS THE PLANTING LOCATION. LOCAL SOURCES OF PLANTS ARE ENCOURAGED, BUT QUALITY REQUIREMENTS MUST BE MAINTAINED.
3. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERMEN.
4. ALL PLANT MATERIAL SHALL BE CUSTOMARY IN PROPORTION TO THE PLANTING SITUATION. IN PREPARING PLANTS FOR MOVING, ALL BALLED AND BURLAPPED PLANTS SHALL BE DUG TO MEET OR EXCEED THE "USDA STANDARDS FOR NURSERY STOCK".
5. ALL PLANT MATERIAL SHALL MEET THE STANDARDS OR AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERMEN, LATEST EDITION, AND THE LIGHT, WEIGHT, AND/OR CALIPER FOR TREES AND SHRUBS LISTED IN SECTION 551.1, RECOMMENDED PLANT LIST.
6. ALL PLANT MATERIAL SHALL BE PROPERLY HANDLED AND HANDLED WITH UTMOST CARE, TO INSURE ADEQUATE PROTECTION AGAINST INJURY.
7. ANY PLANT MATERIAL WHICH DOES NOT SURVIVE SHALL BE REPLACED BY THE DEVELOPER. FINANCIAL SECURITY SHALL BE POSTED WITH THE TOWNSHIP IN AN AMOUNT EQUAL TO THE ESTIMATED COST OF TREES AND PLANTINGS, TO BE RELEASED WHEN THE TOWNSHIP DETERMINES THAT THE PLANTS HAVE SURVIVED. THE TOWNSHIP WILL NOT BE RESPONSIBLE FOR REPLACEMENT OF ANY PLANTING FOR ONLY THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING AND LIGHTING LAUNCH PURPOSES. PROPOSED TREES SHALL NOT BE PLANTED IN A MANNER THAT WOULD TRANSFER ALL OR PART OF THE WEIGHT OF THE TREE TO EXISTING OR PROPOSED FOUNDATIONS.
8. NO PLANTING LAUNCH MODIFICATIONS OR PLANT SUBSTITUTES WILL OCCUR WITHOUT THE APPROVAL OF THE TOWNSHIP ENGINEER. THERE WILL BE NO PRIOR APPROVAL TO MODIFICATIONS OCCURRING IN THE FIELD.
9. THERE WILL BE NO PRIOR APPROVAL TO MODIFICATIONS OCCURRING IN THE FIELD.
10. ANY PLANTING MATERIAL WHICH DOES NOT MEET THE TOWNSHIP ENGINEER'S REQUIREMENTS SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
11. ALL SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE.
12. ALL SHRUBBERY MATERIAL LOCATED WITHIN SIGHT TRIANGLES SHALL NOT EXCEED A MATURE HEIGHT OF 3' ABOVE THE GRADE. PLANTS SHALL BE TRANSFER ALL OR PART OF THE WEIGHT OF THE TREE TO EXISTING OR PROPOSED FOUNDATIONS. PLANTS AS NOT TO HAVE BRANCHES BELOW 7'-0" ABOVE GRADE.
13. ALL PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. "PLANTING DETAILS" SHALL BE ATTACHED TO THE TREE AT TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNKS OF SMALL-DIAMETER TREES. PROVIDE TWO TO THREE TREE STAKES PER TREE. STAKES SHALL BE PLACED AT 45 DEGREE ANGLES TO THE TRUNK OF THE TREE. STAKES SHALL BE WRAPPED WITH A SOFT CORD AND REMOVE BURLAP TO NOT TO SPLIT THE TRUNK 1/3 OF THE ROOT BALL.
14. ALL PLANTING PIT SHALL BE PROPERLY PREPARED. ALL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND SAND MATERIAL. IF WET SOIL CONDITIONS EXIST, THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND.
15. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT DID TO EXISTING GRADE.
16. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING ALL PLANT MATERIAL SHALL BE MAINTAINED THROUGHOUT THE GROWING SEASON. A PERMANENT WATERING SYSTEM SHALL BE PROVIDED.
17. ALL DISTURBED AREAS THAT ARE NOT TO BE PLANTED WITH LANDSCAPE MATERIAL SHALL BE SEEDDED WITH THE FOLLOWING SEED MIXTURE.

SEED MIXTURE	SEEDING RATES
SPREADING FESCUE	LBS./ACRE LBS./1000 S.F.
CHENING'S RED FESCUE	10 0.3
PERENNIAL RYEGRASS	25 0.8
	15 0.3


18. OPTIMUM PLANTING & SEEDING DATES ARE BETWEEN FEBRUARY 15 AND MAY 1 OR BETWEEN OCTOBER 15 AND OCTOBER 15.
19. ALL PLANTING BEDS SHALL RECEIVE MINIMUM NUTRIENT 4" DEPTH OF SHREDDED HARDWOOD BARK.
20. ALL PLANTING BEDS SHALL BE COVERED WITH A PERMANENT MULCH.

SEED MIXTURE	SEEDING RATES	
	LBS./ACRE	LBS./1,000 S.F.
SPREADING FESCUE	15	0.3
CHEWING'S RED FESCUE	15	0.3
KENTUCKY BLUEGRASS	25	0.6
PENNSYLVANIA RYEGRASS	10	0.2

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
SHADE TREES					
AR	23	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" CAL.	B&B
BN	15	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	10"-12 HT.	B&B
NS	20	NYSSA SYLVATICA	BLACKGUM	2 1/2" CAL.	B&B
LS	14	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	2 1/2" CAL.	B&B
LT	14	LIRODENDRON TULIPIFERA	TULIP TREE	2 1/2" CAL.	B&B
PO	25	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2" CAL.	B&B
QB	23	QUERCUS BICOLOR	SWAMP WHITE OAK	2 1/2" CAL.	B&B
TOTAL:	134				
EVERGREEN TREES					
PG	25	PICEA GLAUCA	WHITE SPRUCE	6'-8" HT.	B&B
PS	15	PINUS STROBUS	WHITE PINE	6'-8" HT.	B&B
MV	14	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	6'-8" HT.	B&B
TOTAL	54				
ORNAMENTAL/UNDERSTORY TREES					
CF	18	CORNUS FLORIDA 'APPALACHIAN SPRING'	FLOWERING DOGWOOD	1 1/4" CAL.	B&B
TOTAL:	18				
SHRUBS AND GROUNDCOVER					
AU	329	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	6"-12" SPR.	CONT
CP	706	CAREX PENNSYLVANICA	PENNSYLVANIAN SEDGE	6"-10" SPR.	CONT
CA	370	CEANOTHUS AMERICANUS	NEW JERSEY TEA	18"-24" HT.	CONT
CS	220	CORNUS SERICEA	RED TWIG DOGWOOD	24"-36" HT.	CONT
IG	51	ILEX GLABRA	INKBERRY	48" HT.	CONT
ICS	1,070	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	24"-36" HT.	CONT
JH	525	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER	12"-18" SPR.	CONT
KL	601	KALMIA LATIFOLIA 'RASPBERRY GLOW'	MOUNTAIN LAUREL	18"-24" HT.	CONT
MC	881	MUHLENBERGIA CAPILLARIS	MUHYL GRASS	18"-24" HT.	CONT
TOTAL:	4,753				

NOTES:

1. IN THE EVENT THERE IS A CONFLICT BETWEEN THE LANDSCAPING PLAN AND THE LANDSCAPING SCHEDULE, THE PLAN SHALL GOVERN.
2. TREE CALIPER TO BE MEASURED AT DIAMETER AT 3' ABOVE THE GROUND.
3. STREET TREES TO BE LIMBED UP 7' ABOVE GROUND.
4. ALL ILEX SPECIES SHOULD HAVE BOTH MALE AND FEMALE SPECIES IN EACH GROUPING TO ENSURE FRUIT.



Ernst Conservation Seeds
ERNX-127
Retention Basin Wildlife Mix

Mix Composition

- 30.0% Panicum clandestinum, Tioga (Deertongue, Tioga)
- 29.5% Carex vulpinoidea, PA Ecotype (Fox Sedge, PA Ecotype)
- 20.0% Elymus virginicus, Madison-NY Ecotype (Virginia Wildrye, Madison-NY Ecotype)
- 2.0% Carex lurida, PA Ecotype (Lurid Sedge, PA Ecotype)
- 7.0% Carex scoparia, PA Ecotype (Blunt Sperm Sedge, PA Ecotype)
- 3.0% Verbena hastata, PA Ecotype (Blue Vervain, PA Ecotype)
- 1.5% Juncus effusus (Soft Rush)
- 0.5% Agrostis perennans, Albany Pine Bush-NY Ecotype (Autumn Bentgrass, Albany Pine Bush-NY Ecotype)
- 0.5% Asclepias incarnata, PA Ecotype (Swamp Milkweed, PA Ecotype)
- 0.3% Scirpus cyperinus, PA Ecotype (Woolgrass, PA Ecotype)
- 0.2% Helianum autumnale, PA Ecotype (Common Sneezeweed, PA Ecotype)
- 0.1% Aster novae-angliae, PA Ecotype (New England Aster, PA Ecotype)
- 0.1% Aster punctatus, PA Ecotype (Purplestem Aster, PA Ecotype)
- 0.1% Aster umbellatus, PA Ecotype (Flat Topped White Aster, PA Ecotype)
- 0.1% Eupatorium perfoliatum, PA Ecotype (Boneset, PA Ecotype)
- 0.1% Lobelia siphilitica, PA Ecotype (Great Blue Lobelia, PA Ecotype)

Seeding Rate: 20 lbs per acre, or 0.5–1 lb/1,000 sq ft with a cover crop. For a cover crop use one of the following: grain rye (1 Sep to 30 Apr; 30 lbs/acre), Japanese millet (1 May to 31 Aug; 10 lbs/acre), or barnyard grass (1 May to 31 Aug; 10 lbs/acre).

AREA TO BE SEEDED: 0.44 ACRES

			DATE: JANUARY 17, 2023
			SCALE: 1"= 30'
			DESIGNED BY: J.M.T.
			DRAWN BY: J.M.T.
PER TOWNSHIP	M.K.F.	03/10/23	CHECKED BY: M.K.F.
REVISIONS	AUTH.	DATE	JOB No. 18-05-M

BY:

Justin M. Tyler, R.L.A.

Licensed Landscape Architect,
New Jersey Lic. No. 21AS00138600



Van Cleef
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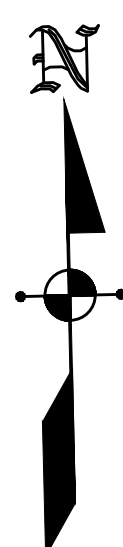
VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWER LANE, HILLSBOROUGH, NJ 08844
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE (908) 359-8291
CERT. OF AUTHORIZATION NO. 24GA28132300

- Bridges/Highways
- Construction Inspection
- Environmental
- Geotechnical/Dams
- Landscape Architecture
- Local/Regional Planning
- Municipal Engineering
- Site Development
- Surveying/Aerial Drones/GIS
- Water/Wastewater

LANDSCAPE DETAILS

LANDSCAPE DETAILS
PREPARED FOR
LINGEN VILLAGE SQUARE
4, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
HERSET COUNTY, NEW JERSEY

28



103.2

US ROUTE 206
VARIABLE WIDTH RIGHT OF WAY

PILE

PILE

POOL

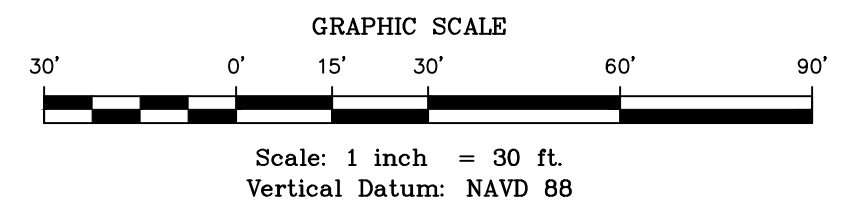
PROPOSED TREELINE (TYP.)

PROPOSED 20' WIDE DRAINAGE
EASEMENT TO SERVICE LOT 33.01

MATCHLINE A-A

LEGEND

- FM PROPOSED FORCE MAIN SEWER
- FW FLOODWAY LIMIT LINE
- PH FLOOD HAZARD AREA LIMIT
- 100' MONTGOMERY TWP. BUFFER
- RZL RIPARIAN ZONE LIMIT
- WE WETLAND BUFFER LINE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING TREELINE
- PROPOSED TREELINE
- WETLANDS DELINEATION LINE W/PLAOS
- SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED LIGHT
- WETLAND AREAS



NOTE:
LIGHTING DESIGN BY:

DIVERSIFIED
1611 POND ROAD
SUITE 101
ALLENTOWN, PA 18104

		DATE:	JANUARY 17, 2023
		SCALE:	1"= 30'
		DESIGNED BY:	J.M.T.
		DRAWN BY:	J.M.T.
		CHECKED BY:	M.K.F.
REVISIONS	AUTH.	DATE	JOB No. 18-05-M


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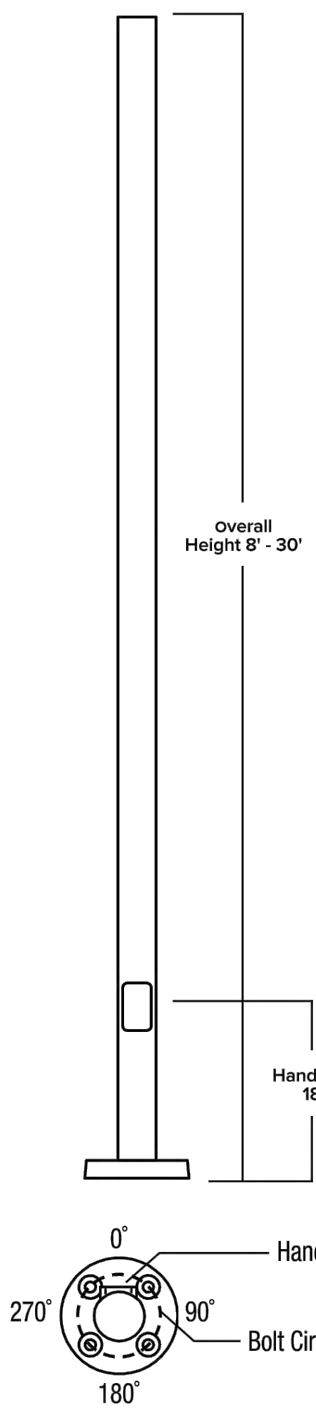


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PHONE (609) 325-8571
CERT. OF AUTHORIZATION NO. 246A0132300

LIGHTING PLAN - NORTH
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

RSA-B-S SERIES POLES ROUND STRAIGHT ALUMINUM

Cat.#			 BEACON design...performance...technology
Job		Type	Approvals



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

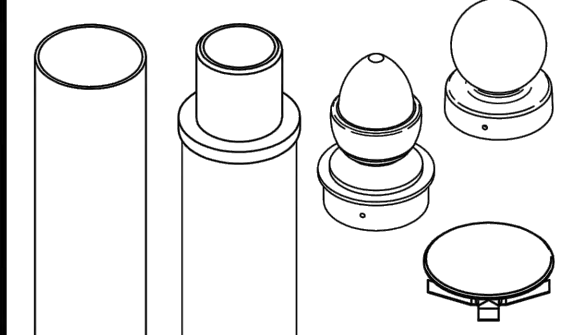
CONSTRUCTION

- SHAFT: One-piece straight aluminum with round cross section; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Aluminum hand hole frame; Mounting provisions for grounding lug located behind cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

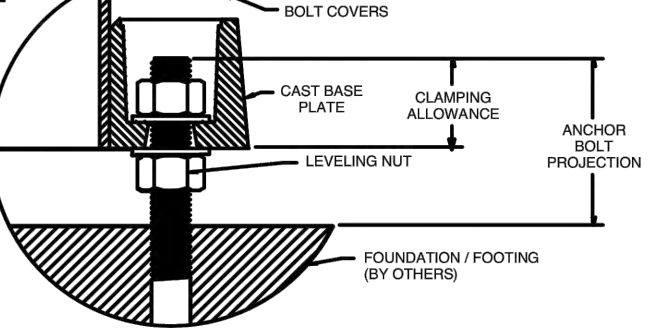
FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in multiple standard colors; Custom colors available; RAL number preferable.

TENONS & POLE CAPS



BASE DETAIL



ORDERING EXAMPLE:

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
RSA-B-S	16	40	A/B/C	CAP - 2L	B3	DBT - VM2
RSA- Round Straight	Reference page 2	Reference page 2	Reference page 2	1 Single arm mount	BLT Black Matte Textured	GFI 20 Amp GFI
B-S Aluminum Pole	Ordering matrix	Ordering matrix	Ordering matrix	2 Two fixtures at 180°	BLS Black Gloss Smooth	Receptacle and Cover
Beacon Smooth				2L Two fixtures at 90°	DBT Dark Bronze Matte Textured	
				3T Three fixtures at 90°	DBS Dark Bronze Gloss Smooth	EHH Extra Handhole
				3Y Three at 120°	GTT Graphite Matte Textured	CO5 3" Coupling
				4 Four fixtures at 90°	LGS Light Grey Gloss Smooth	CO7 75" Coupling
				OT* Open top (in-cludes pole cap)	PSS Platinum Silver Smooth	C20 2" Coupling
				TN3* Tenon 3 x 3	WHT White Matte Textured	VM2 2nd mode
				TN4* Tenon 3 x 4	WHS White Gloss Smooth	Vibration damper
				TN5* Tenon 4 x 5	VGt Verde Green Textured	LAB Less Anchor Bolts
				TN6* Tenon 4 x 8		
				ARC* Acorn Finial	Color Option	
				BAL* Ball Finial	CC Custom Color	
				CAP* Flat Cap	DRILL PATTERN	
					B1 Cruiser, "AM" arm	
					B3 2 bolt (2-1/2" spacing), Viper "A" arm	
					S2 2 bolt (3-1/2" spacing), Viper "AD" arm	

ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper



Beacon Products • 701 Millennium Blvd, Greenville, SC 29607 • Phone: 864-678-1000
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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Traditional TRA30 30" TRADITIONAL LUMINAIRE

FEATURES

- The historic 4-side lantern updated to the latest technology
- Choice of acrylic, polycarbonate lensing
- IES distributions
- Clear or diffused lensing
- Integral surge and thermal protection

SPECIFICATIONS

CONSTRUCTION

- All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal
- The upper chamber/lid shall be topped by a decorative cast aluminum finial/cap and mechanically fastened to the optical chamber. The cast multi-sided cage shall accommodate UV stabilized acrylic or polycarbonate lenses (side panels) which shall be sealed for weather tight operation
- The electrical chamber/fitter shall be aluminum, decorative fitter designed to accommodate the assembly and shall mount to 3 OD x 3" H tenon and secured by three stainless steel set screws
- All fasteners shall be Corrosion Resistant. When temper resistant fasteners are required, spinner H-D (snake eye) style shall be provided (special tool required, available at additional cost)
- Finish shall be a Beacote V polyester powdercoat electrostatically applied and thermocured. Beacote V finish shall consist of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pound
- ELECTRICAL
 - Each luminaire is supplied with an optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. Silicone foam gasket ensures a weather-proof seal around each individual LED and allows the luminaires to be rated for high-pressure hose down applications

ELECTRICAL (CONTINUED)

- The optical cartridge is secured to the extruded housing with fasteners to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using a specially designed acrylic optical lens over each LED
- Shall be able to operate normally in ambient temperatures from -40°C to 40°C
- The on-board surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 20,000 Amps using the industry standard 8/20 pSec wave. The LSP shall have a clamping voltage of 825V and surge rating of 540J. The case shall be a high-temperature, flame resistant plastic enclosure
- Luminaires are equipped with LED driver(s) that accept 90 through 305 VAC, 50 Hz to 60 Hz (UNV). Power factor is .92 at full load. All driver components supplied are component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher

CONTROLS

- Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



CONTROLS (CONTINUED)

- A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F). The thermal circuit will allow higher maximum Wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure. Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point
- Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements
- Thermal circuit shall be designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers
- Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded

CERTIFICATIONS

- UL - UL1310, Class 2 and UL48 compliant
- Luminaire shall have a minimum CRI of 67 at 5000K
- The luminaire shall bear an NRTL label and be marked suitable for wet locations

WARRANTY

- 5 year warranty
- See HLL Standard Warranty for additional information



Tradtional TRA30 30" TRADITIONAL LUMINAIRE

ORDERING GUIDE

Example: TRA30-AC-24NB-55-3K7-UNV-PEC-PT-NF-BLT

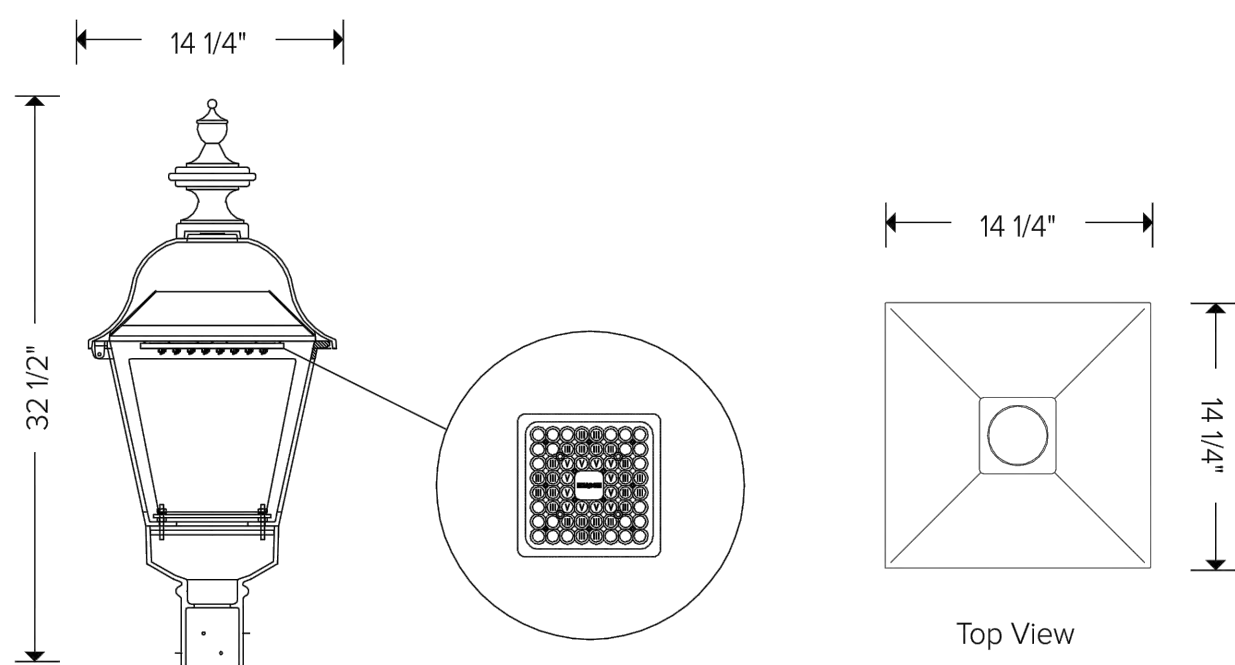
CATALOG #

Series	Lens Finish	Engine Watts	CCT	Voltage	Optics
TRA30 Traditional 30"	AC Acrylic, clear AF Acrylic, frosted AS Acrylic, seeded AW Acrylic, white PC Polycarbonate, clear PF Polycarbonate, frosted	24NB-55 55 Watts - LED array 36NB-80 80 Watts - LED array 48NB-110 110 Watts - LED array 60NB-136 136 Watts - LED array	3K7 3000K 4K7 4000K 5K7 5000K	UNV 120-277V 347 347V 480 480V	DIR2 Direct, type II DIR3 Direct, type III DIR4 Direct, type IV DIR5 Direct, type V

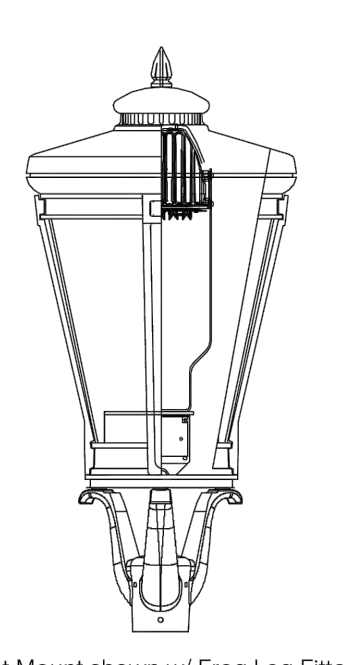
Electrical Options	Control Options	Mounting Options	Steel Option	Control Options
PEC Photocell, button	GENI-XX Energeni ¹	PT Post top PM Pendant mount ²	NF No final	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGt Verde Green Textured Color Option CC Custom Color

Notes:
1 When ordering Energeni, specify the routine setting code (Example GENI-04). See Energeni brochure and Energeni instructions for setting table and options. Not available with sensor options
2 Consult Factory

DIMENSIONS



MOUNTING OPTIONS



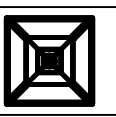

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Page 212 Rev. 03/05/20
TRA30-SPEC

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701 Millennium Blvd • Greenville, SC 29607 / Tel 864.678.1000 / Website www.beaconproducts.com



Luminaire Schedule							
Symbol	Label	Qty	Lum. Watts	Lum. Lumens	LLF	Arrangement	Description
	A1	8	55	4618	0.850	Single	TRA30-AC-24NB-55-3K-UNV-DIR4 (P17_01820)
	B1	21	57	4800	0.850	Single	TRA30-AC-24NB-55-3K-UNV-DIR3

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
All calc extending to Zero	Illuminance	Fc	0.10	1.4	0.0	N.A.	N.A.
Area 1	Illuminance	Fc	1.02	1.4	0.6	1.70	2.33
Area 2	Illuminance	Fc	0.76	1.1	0.3	2.53	3.67
Area 3	Illuminance	Fc	0.85	1.3	0.2	4.25	6.50
Dog Park	Illuminance	Fc	0.92	1.9	0.2	4.60	9.50
Driveway	Illuminance	Fc	0.70	1.5	0.3	2.33	5.00
Parking Lot	Illuminance	Fc	0.73	1.3	0.4	1.83	3.25
Walkway 1	Illuminance	Fc	0.46	1.3	0.2	2.30	6.50
Walkway 2	Illuminance	Fc	0.75	1.2	0.1	7.50	12.00
Walkway 3	Illuminance	Fc	0.67	1.2	0.1	6.70	12.00
Walkway 4	Illuminance	Fc	0.60	1.2	0.1	6.00	12.00
Walkway 5	Illuminance	Fc	0.85	1.1	0.6	1.42	1.83
Walkway 6	Illuminance	Fc	0.86	1.2	0.5	1.72	2.40

Note:

Calculation Grid (10ft x 10ft) @ Ground Level.

Calculation Grid for Walkway (2ft x 2ft) @ Ground Level.

Calculation Grid for Area, Dog Park (5ft x 5ft) @ Ground Level.

Luminaire mounting heights are noted on each Luminaire Label.

NOTE:
LIGHTING DESIGN BY:

DIVERSIFIED
1611 POND ROAD
SUITE 101
ALLEN TOWN, PA 18104

BY: 
Justin M Tyler, R.L.A.

Licensed Landscape Architect,
New Jersey Lic. No. 21AS00138600



VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROADWAY, SUITE 200, NEWARK, NJ 07102
WWW.VANCLEEFENGINEERING.COM
PHONE 908.562.8571
CERT. OF AUTHORIZATION NO. 246A28132300

LIGHTING DETAILS

PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater



SYMBOL	BOTANICAL NAME	COMMON NAME
SHADE TREES		
AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE
BN	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH
NS	NYSSA SYLVIATICA	BLACKGUM
LS	LIQUIDAMBAR STYRACIFLUA	SWEETGUM
LT	LIRIODENDRON TULIPIFERA	TULIP TREE
PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE
QB	QUERCUS BICOLOR	SWAMP WHITE OAK
EVERGREEN TREES		
PG	PICEA GLAUCA	WHITE SPRUCE
PS	PINUS STROBUS	WHITE PINE
MV	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA
ORNAMENTAL/UNDERSTORY TREES		
CF	CORNUS FLORIDA 'APPALACHIAN SPRING'	FLOWERING DOGWOOD
SHRUBS AND GROUNDCOVER		
AU	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
CP	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE
CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA
CS	CORNUS SERICEA	RED TWIG DOGWOOD
IGS	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY
JH	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER
KL	KALMIA LATIFOLIA 'RASPBERRY GLOW'	MOUNTAIN LAUREL
MC	MULLENBERGIA CAPILLARIS	MUHY GRASS

1. OPTIONAL DECORATIVE FENCE @ TOWNHOUSES SHALL ONLY EXTEND 12 FEET OUT FROM REAR OF BUILDING.
2. NO DECORATIVE FENCE IS PROPOSED ALONG REAR FEE SIMPLE LOT LINE @ TOWNHOUSES, I.E. REAR YARDS @ TOWNHOUSES SHALL NOT BE ENCLOSED BY A FENCE.
3. THE OUTSIDE AIR CONDITIONER COMPRESSORS FOR THE TOWNHOUSE UNITS SHALL NOT BE LOCATED IN FRONT OF THE UNITS.
4. THE FINAL UTILITY SERVICE LOCATIONS SUCH AS GAS, ELECTRIC, CABLE ARE SUBJECT TO THE UTILITY COMPANY.
5. THE APARTMENT BUILDING ARE REQUIRED BY ORDINANCE TO PROVIDE BOTH HEAT AND SMOKE ALARMS AS WELL AS FIRE SUPPRESSION SPRINKLER SYSTEMS IF REQUIRED BY CODE.

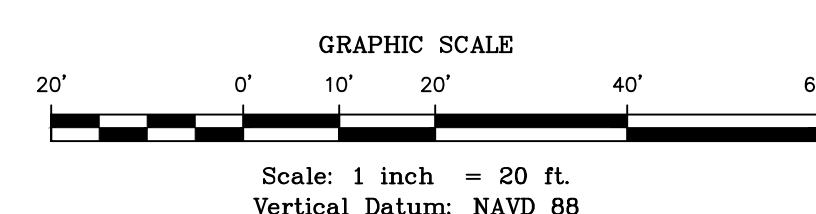
1.	MINIMUM DISTANCE FROM LOT LINE TO PARKING:	5 FT
2.	MINIMUM DISTANCE FROM LOT LINE TO TRACT BOUNDARY:	25 FT
3.	MINIMUM DISTANCE FROM LOT LINE TO COLLECTOR STREET:	25 FT
4.	MINIMUM DISTANCE FROM LOT LINE TO LOCAL STREET:	10 FT



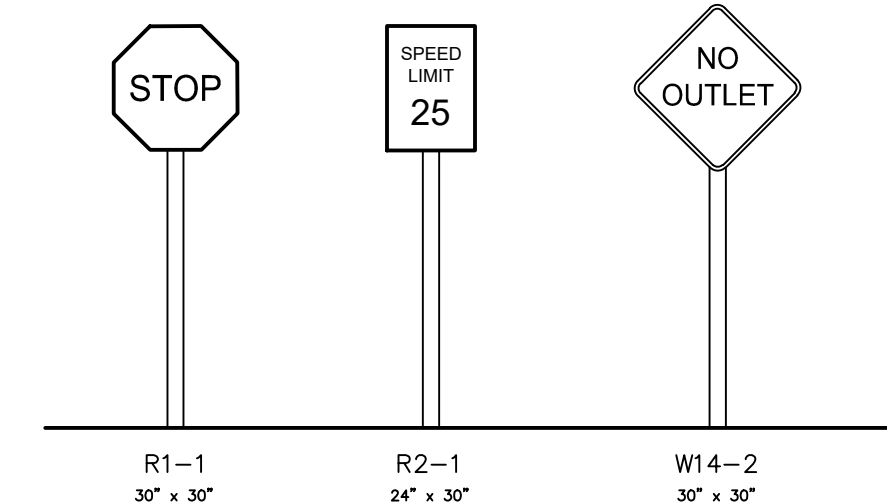
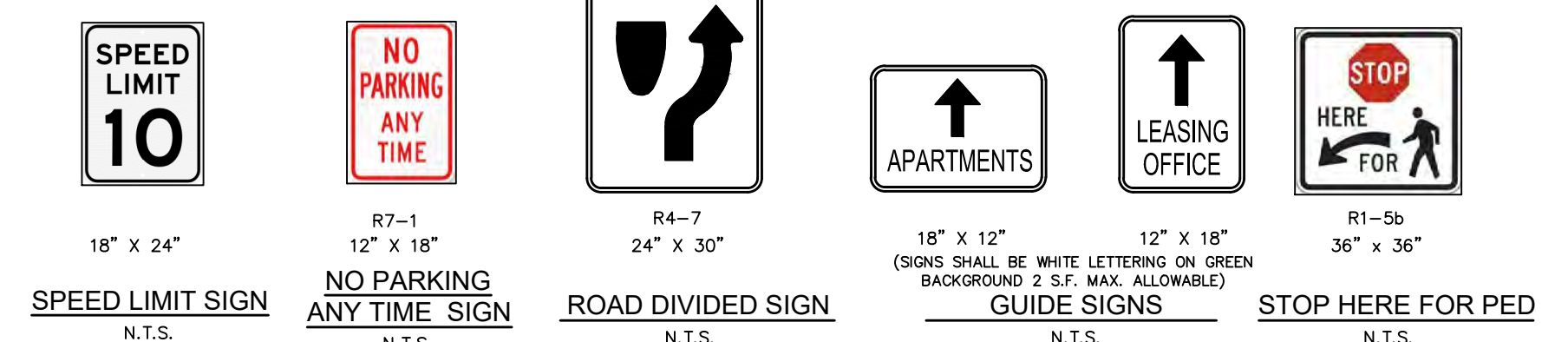
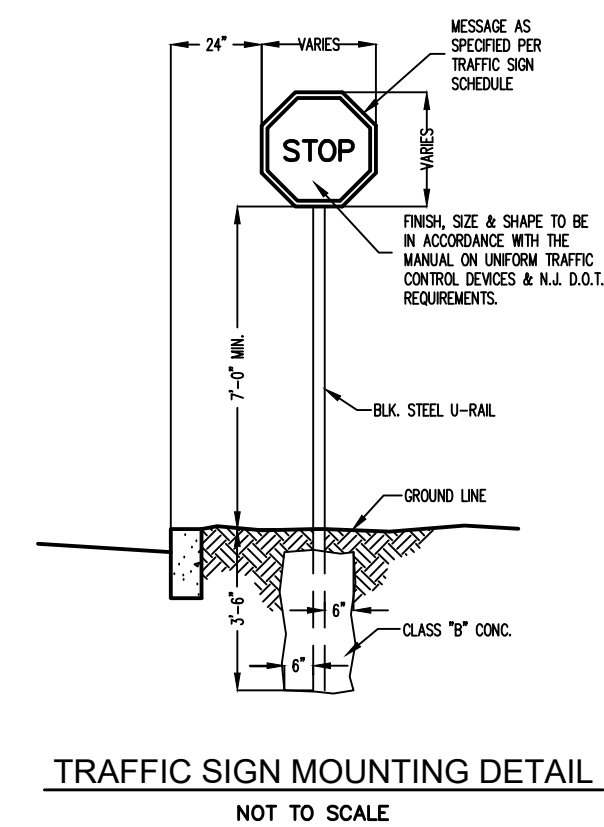
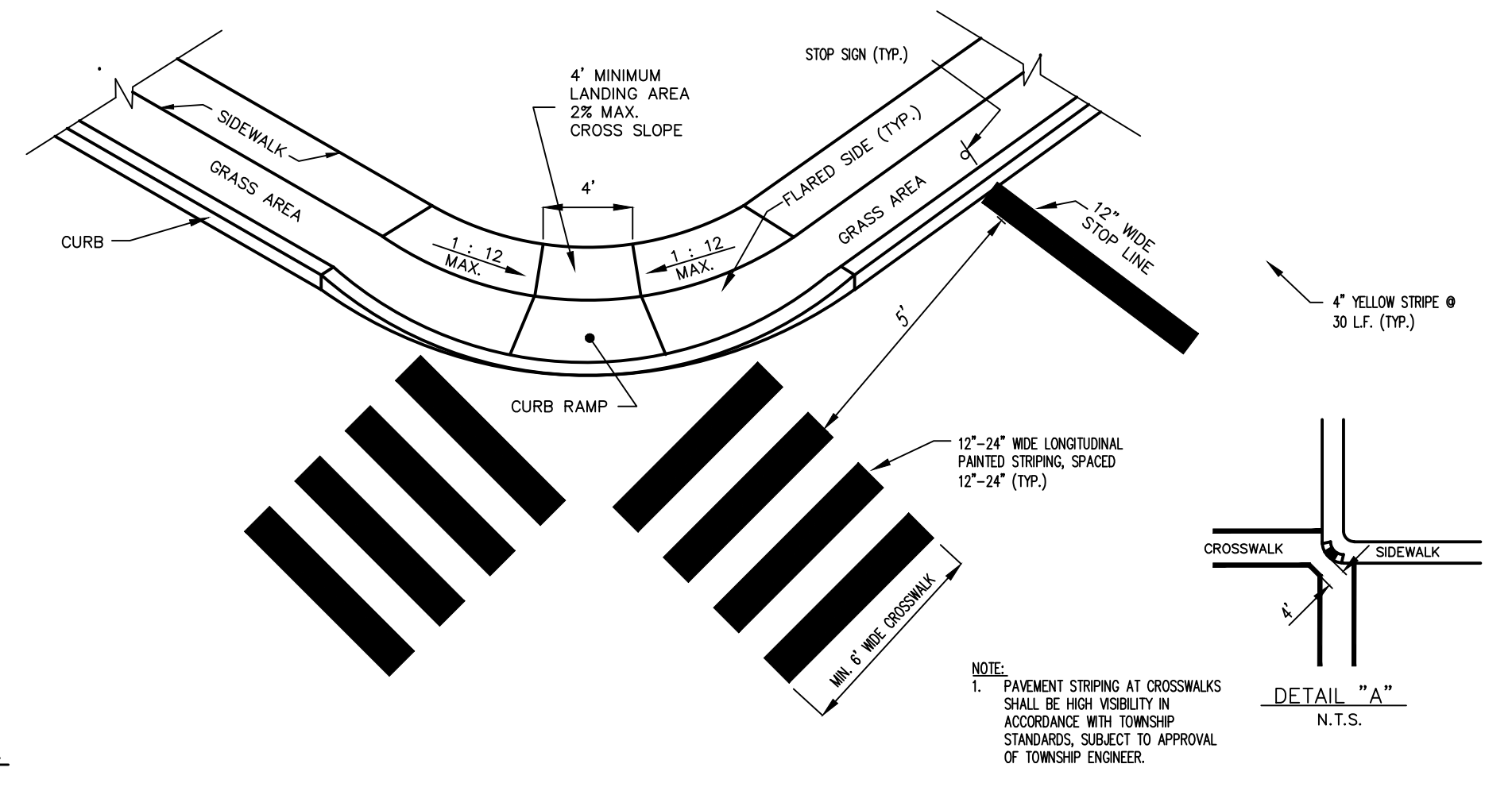
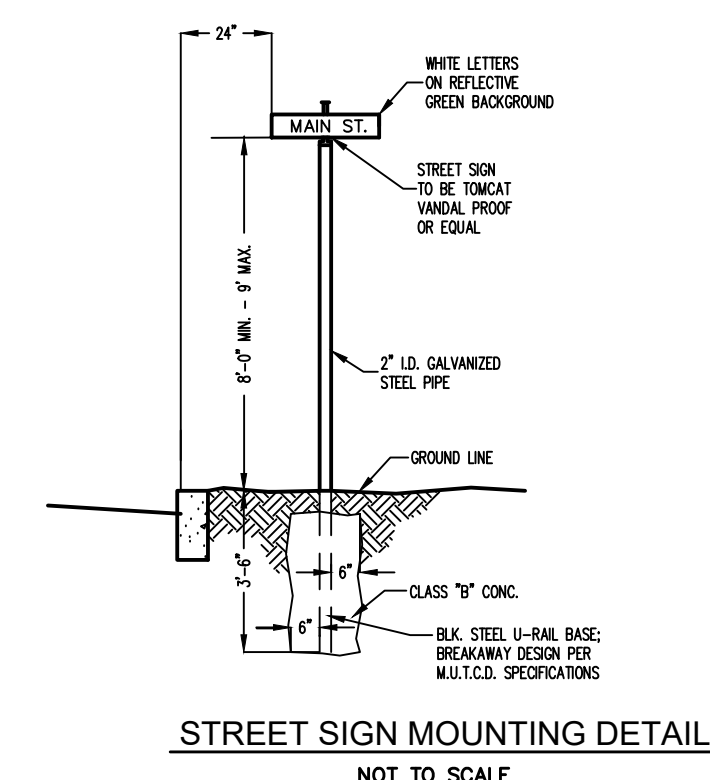
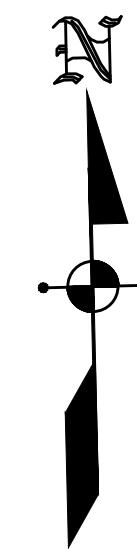
BY: Michael K. Ford
Michael K. Ford New Jersey Professional Engineer
No. 34723

TYPICAL BUILDING PLANS
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

2)

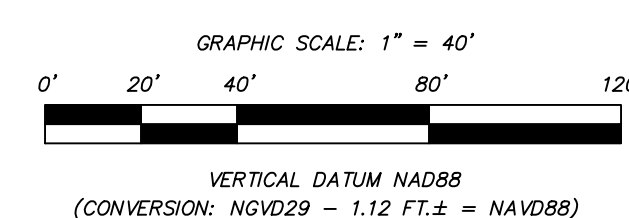
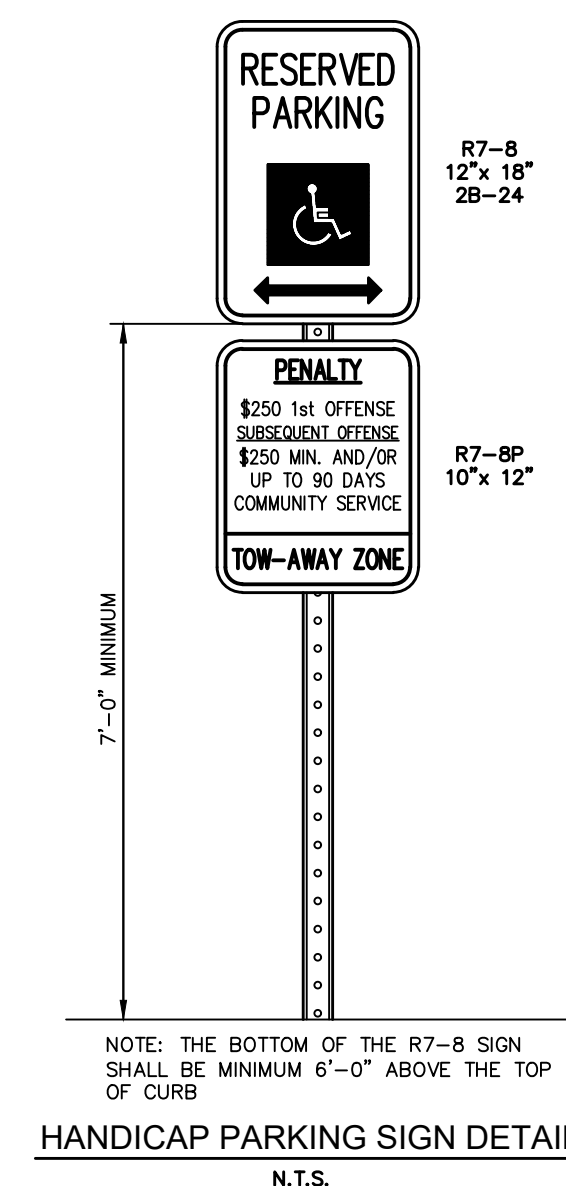


01



- NOTES:
1. ALL SIGNS ARE TO BE ALUMINUM, 0.080 GAUGE UP TO 6.25 S.F.; 0.100 GAUGE LARGER THAN 6.25 S.F.; THE FACE SHALL BE SMOOTHLY RETRO REFLECTIVE SHEETING OR APPROVED EQUAL; HIGH INTENSITY GRADE FOR STOP SIGNS.
 2. POSTS SHALL BE "EZE-ERECT" BREAKAWAY SIGN POST SYSTEM OR APPROVED EQUAL. POSTS SHALL BE MADE OF HOT ROLLED RAIL STEEL (ASTM A499-76); HEIGHT 2.5 LB/FT.; FINISH: BAKED GREEN ENAMEL PAINT; LENGTH: BASE POST 3'-6", SIGN POST 6'-0" TO 10'-0" AS DIRECTED BY THE ENGINEER.
 3. IN AREAS WITHOUT CURBING, THE OUTER EDGE OF SIGN TO BE 6'-0" MINIMUM TO 12'-0" MAXIMUM FROM EDGE OF SHOULDER AS DIRECTED.
 4. ALL SIGNS MUST COMPLY WITH TOWNSHIP STANDARDS AND CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 5. ALL TRAFFIC CONTROL SIGNS SHOULD BE HIGH INTENSITY OR PRISMATIC DIAMOND GRADE RETRO REFLECTIVE SHEETING TO MEET MUTCD REFLECTIVITY REQUIREMENTS.

TRAFFIC CONTROL SIGNS
N.T.S.



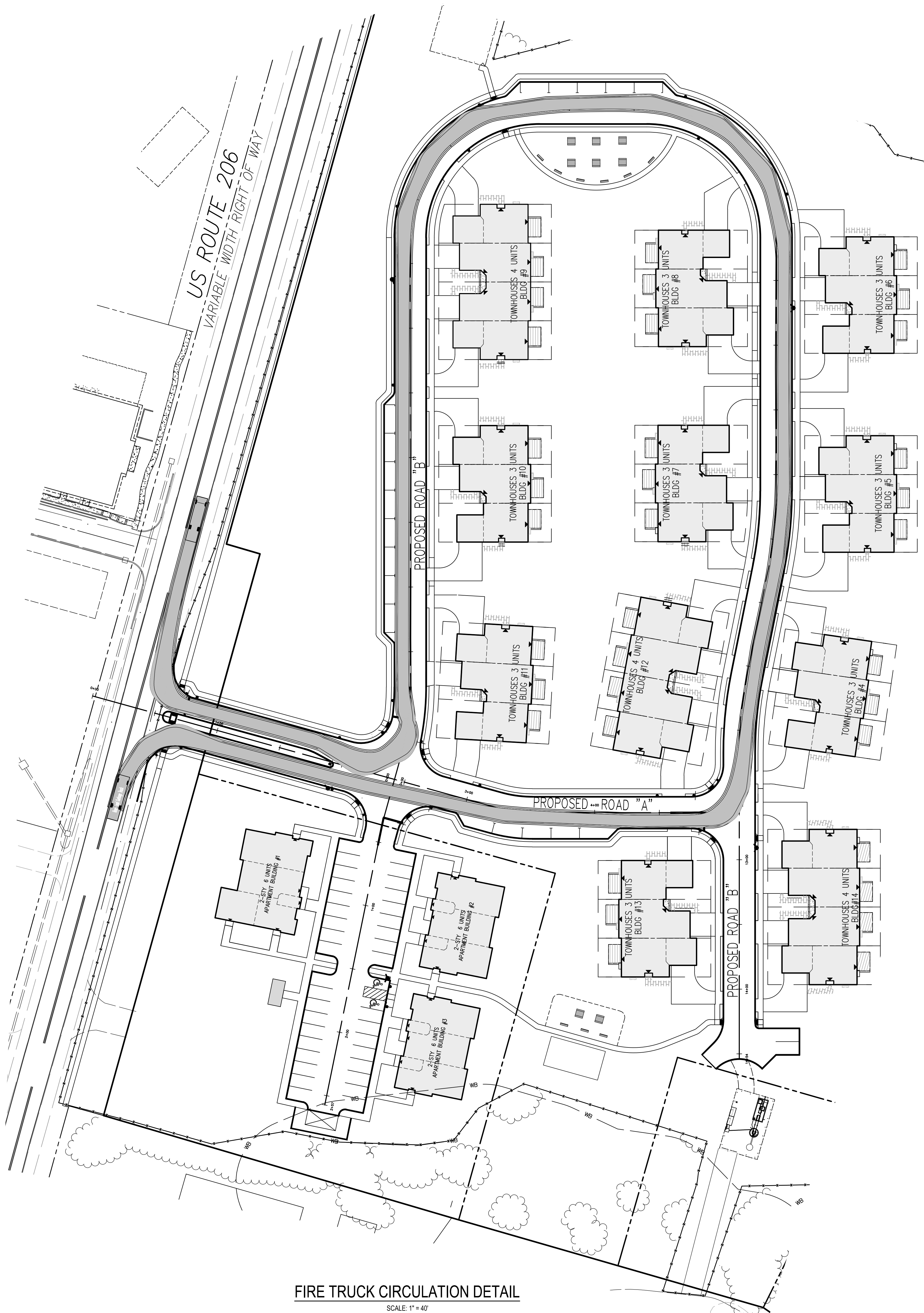
			DATE: JANUARY 17, 2023
			SCALE: 1"= 40'
			DESIGNED BY: M.K.F.
			DRAWN BY: A.B.
PER TOWNSHIP	M.K.F. 03/10/23	CHECKED BY: M.K.F.	
REVISIONS	AUTH. DATE	JOB No. 18-05-M	
<p><i>Michael K. Ford</i> Michael K. Ford, P.E. Professional Engineer, New Jersey Lic. No. 34722</p>			

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VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWN LANE, HILLSBOROUGH, NJ 08044
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (609) 528-5201
CITY OF AUTHORIZATION NO. 26628112100

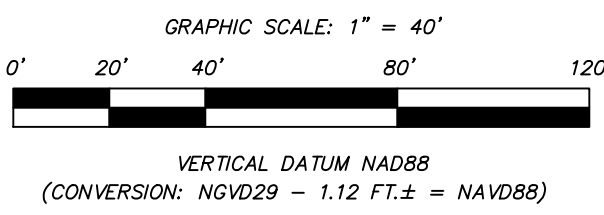
SIGNAGE AND STRIPING PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

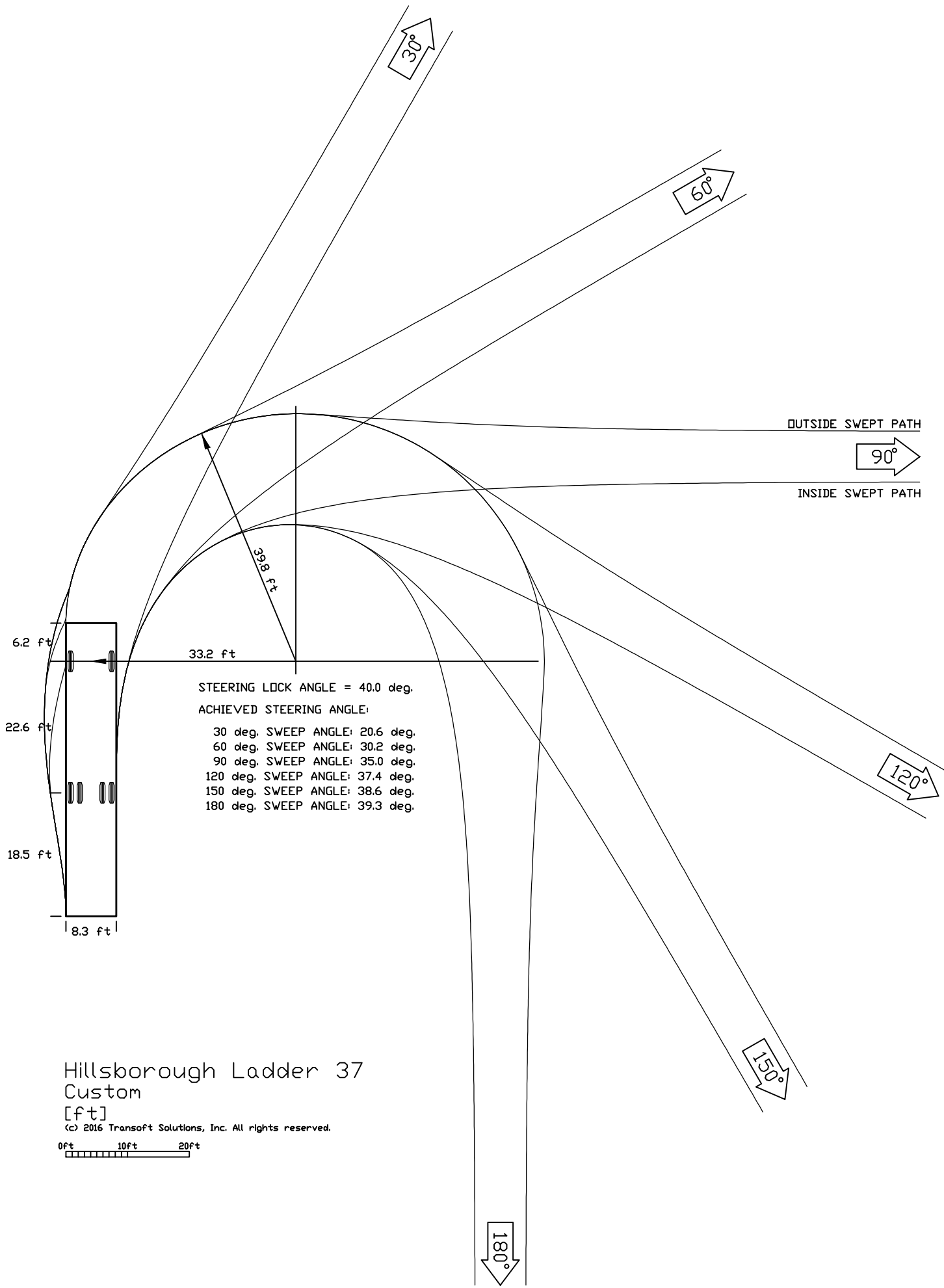


FIRE TRUCK CIRCULATION DETAIL

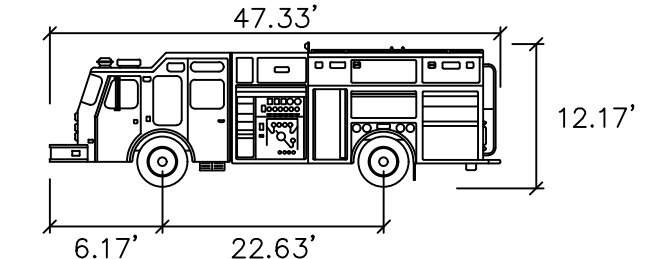
SCALE: 1" = 40'



F:\JOBFILE\1805M\ENG\DWG\HARLINGEN VILLAGE PLAN SET (8-18-22)\1805M_32 FIRETRUCK TURNING.DWG



Hillsborough Ladder 37
Custom
[F-1]
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Hillsborough Ladder 37
Width : 8.33'
Track : 6.17'
Lock to Lock Time : 6.0"
Steering Angle : 40.0°
GVW : 69,300 lbs

N.T.S.

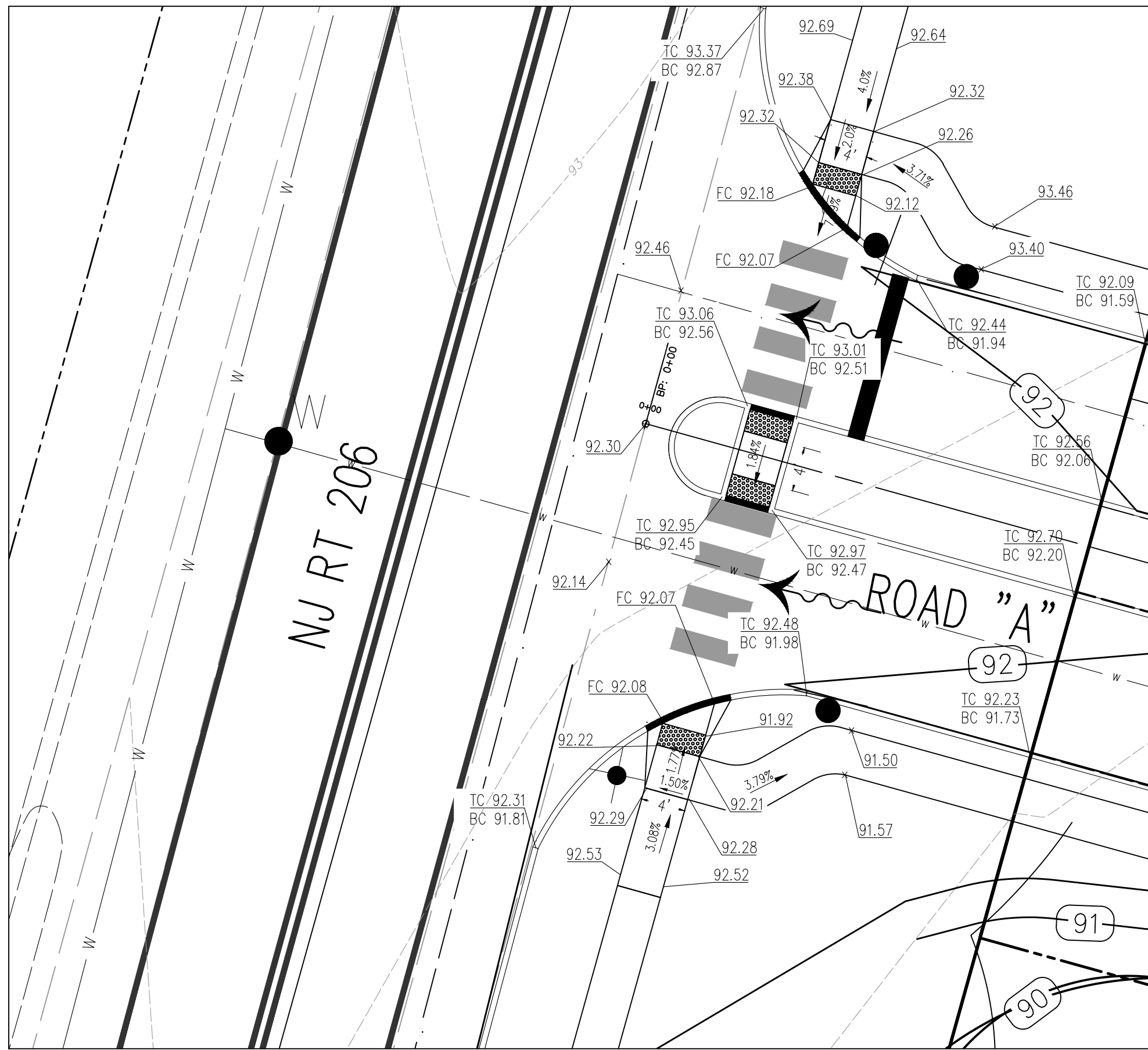
LEGEND
PROPOSED SIGN
PROPOSED HYDRANT

		DATE:	JANUARY 17, 2023
		SCALE:	1"= 40'
		DESIGNED BY:	M.K.F.
		DRAWN BY:	A.B.
PER TOWNSHIP	M.K.F.	CHECKED BY:	M.K.F.
REVISIONS	AUTH.	DATE	JOB No. 18-05-M

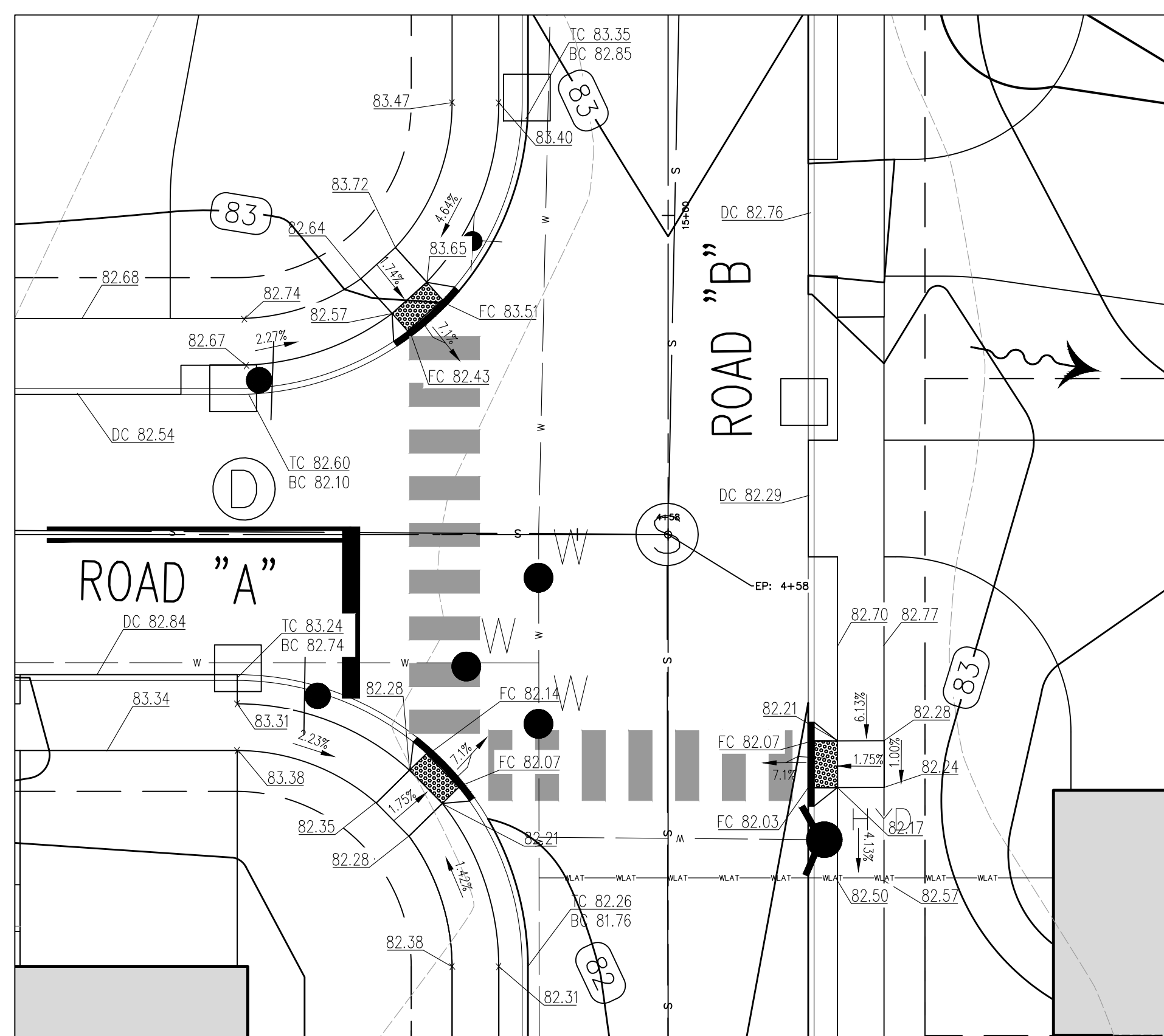
Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722

Van Cleaf
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWN LANE, HILLSBOROUGH, NJ 08044
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (609) 528-5291
CERT. OF AUTHORIZATION NO. 266A28112180

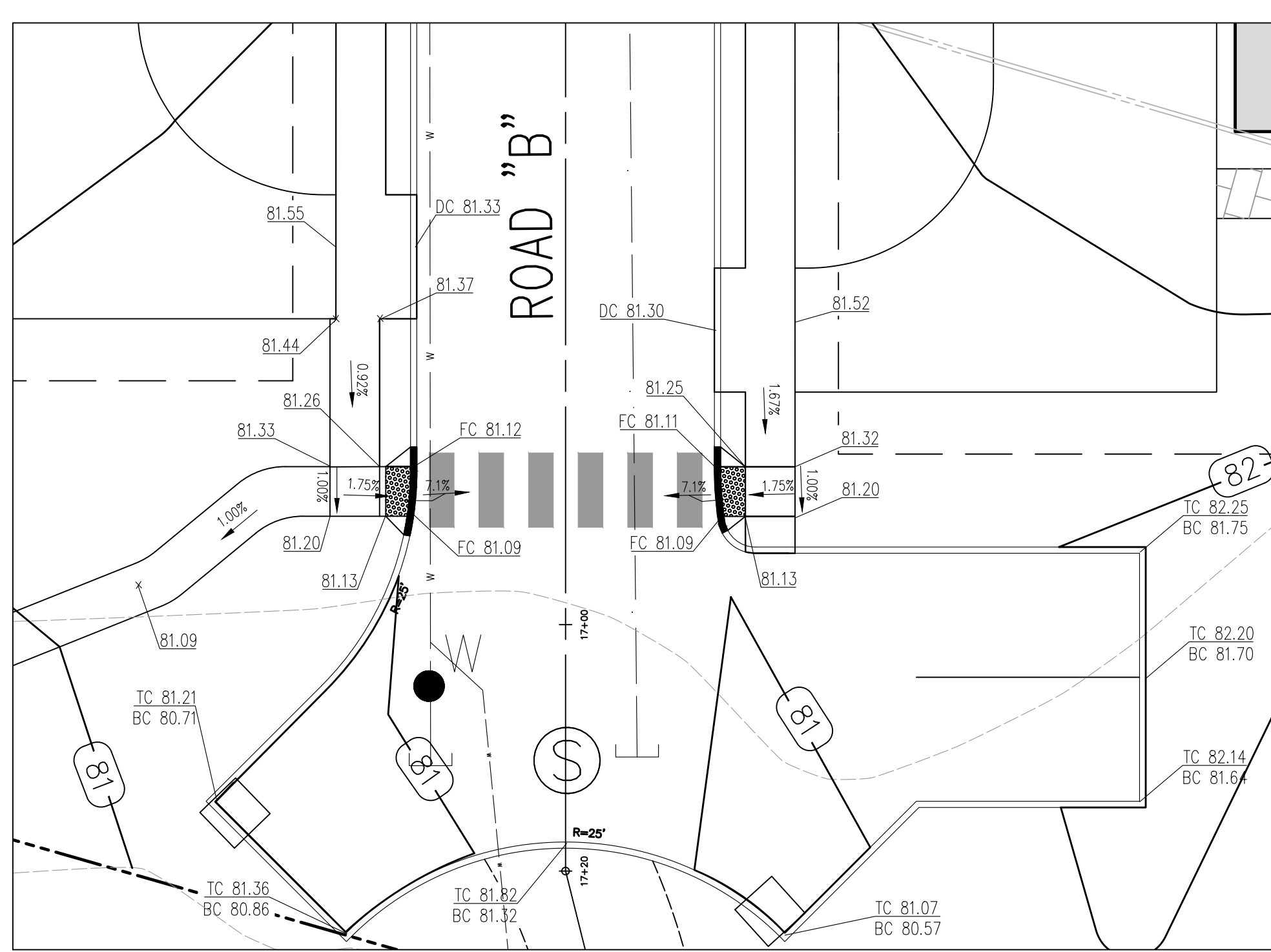
VEHICULAR CIRCULATION EXHIBIT
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY



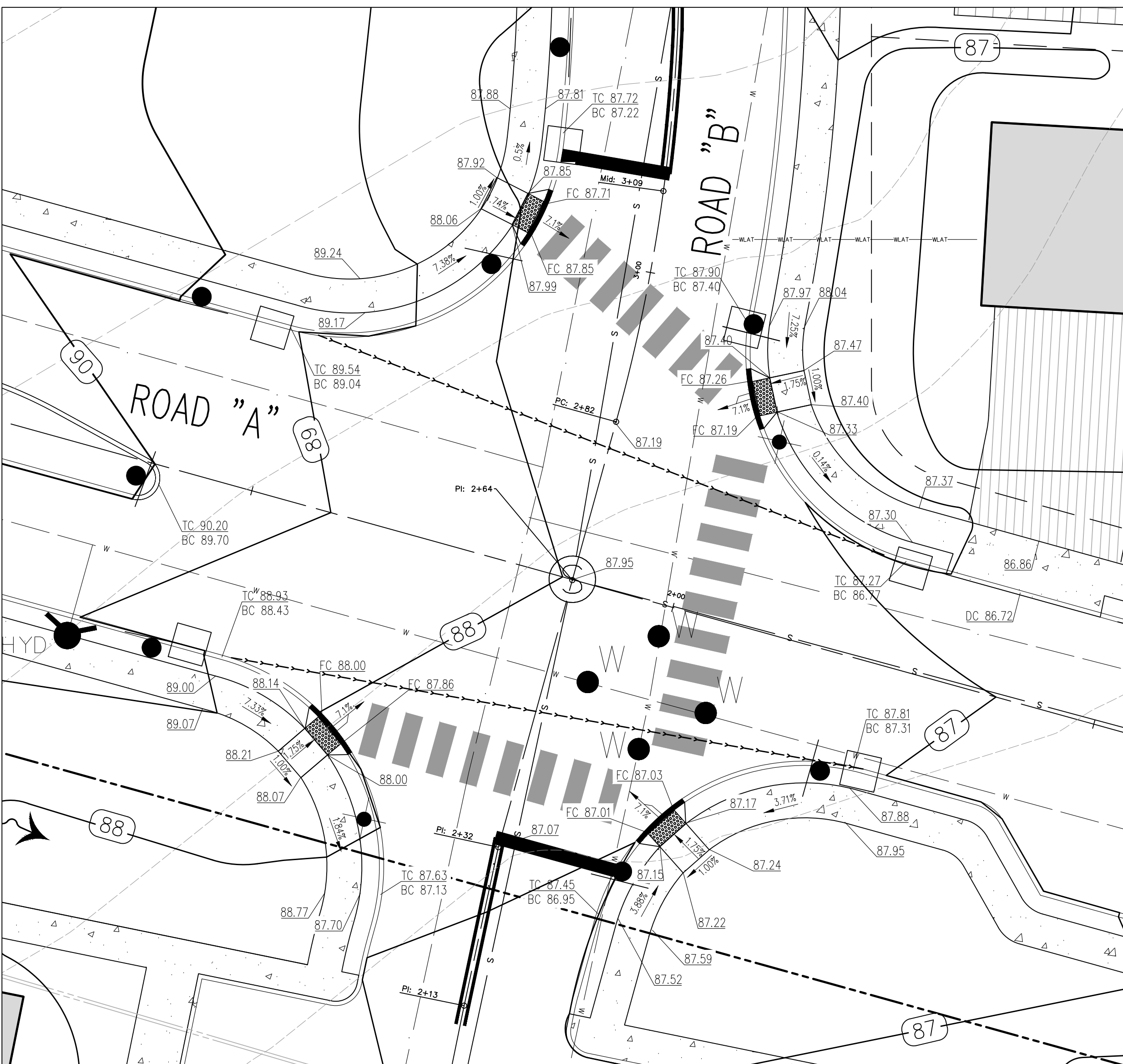
ACCESSIBLE CURB RAMP @ NJ RT 206
SCALE: 1" = 10'



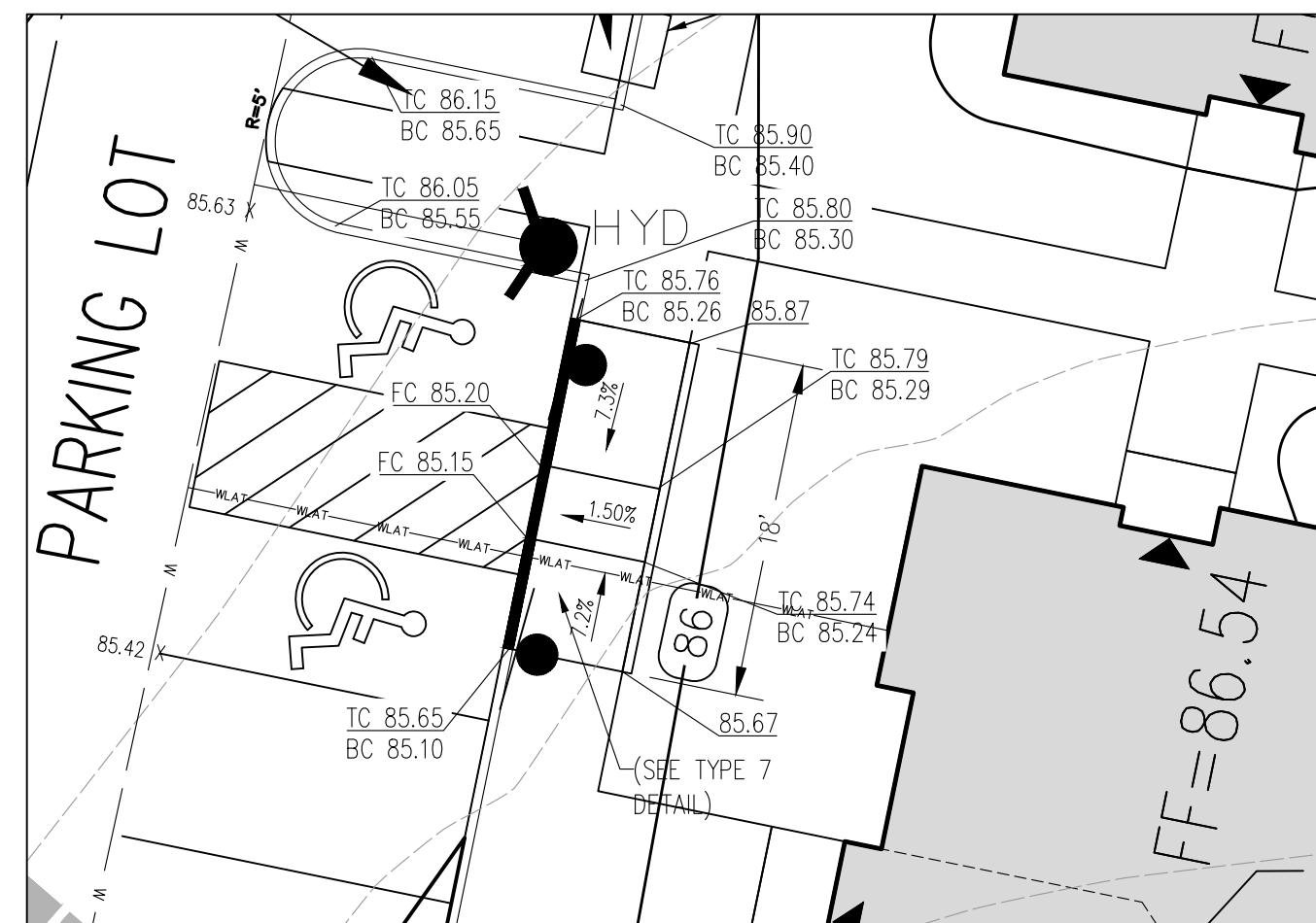
ACCESSIBLE CURB RAMP @ ROAD "A" @ ROAD "B" EAST
SCALE: 1" = 10'



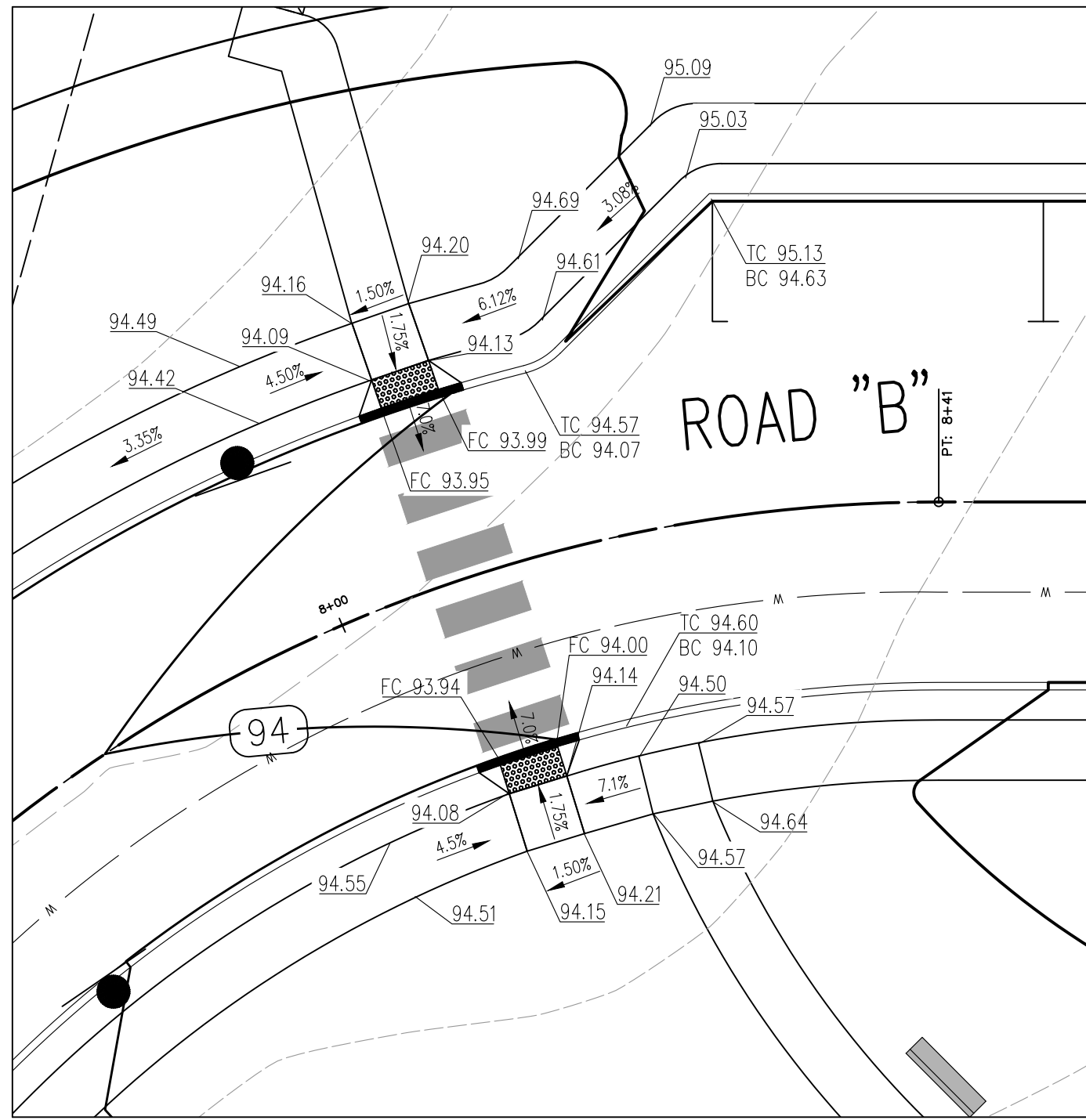
ACCESSIBLE CURB RAMP @ ROAD "B" SOUTH EAST
SCALE: 1" = 10'



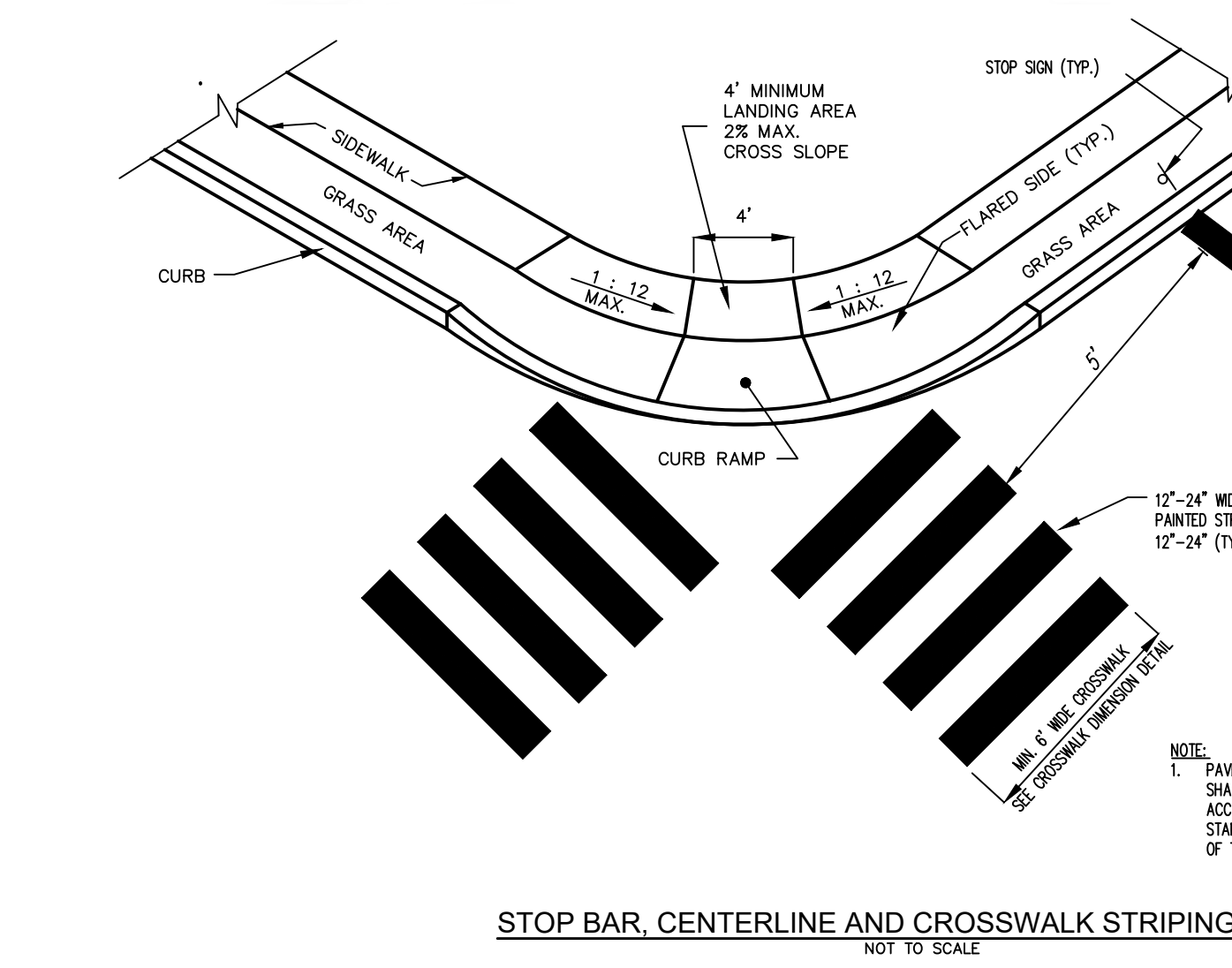
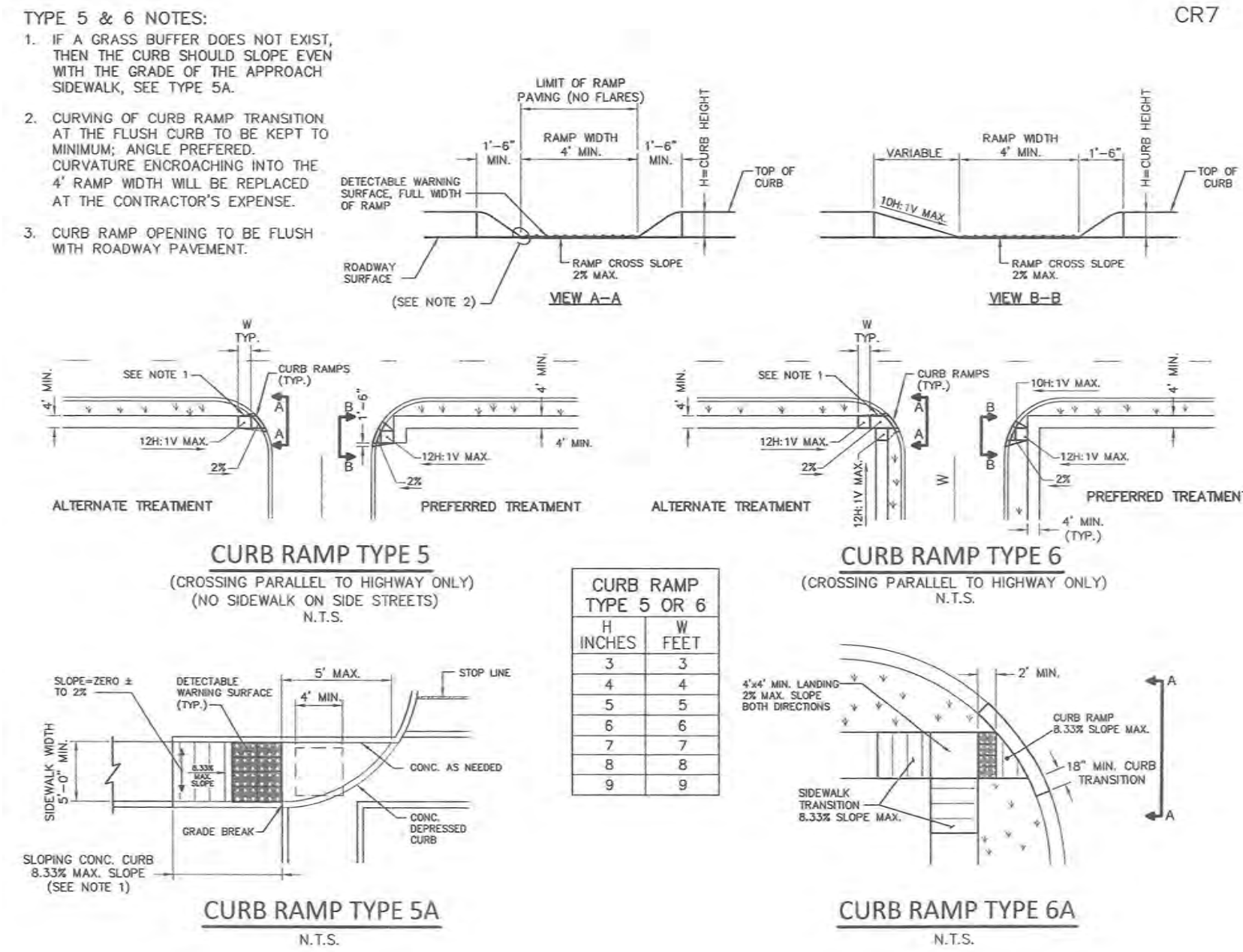
ACCESSIBLE CURB RAMP @ ROAD "A" @ ROAD "B" WEST
SCALE: 1" = 10'



ACCESSIBLE RAMP @ PARKING LOT
SCALE: 1" = 10'



ACCESSIBLE CURB RAMP @ ROAD "B" NORTH
SCALE: 1" = 10'

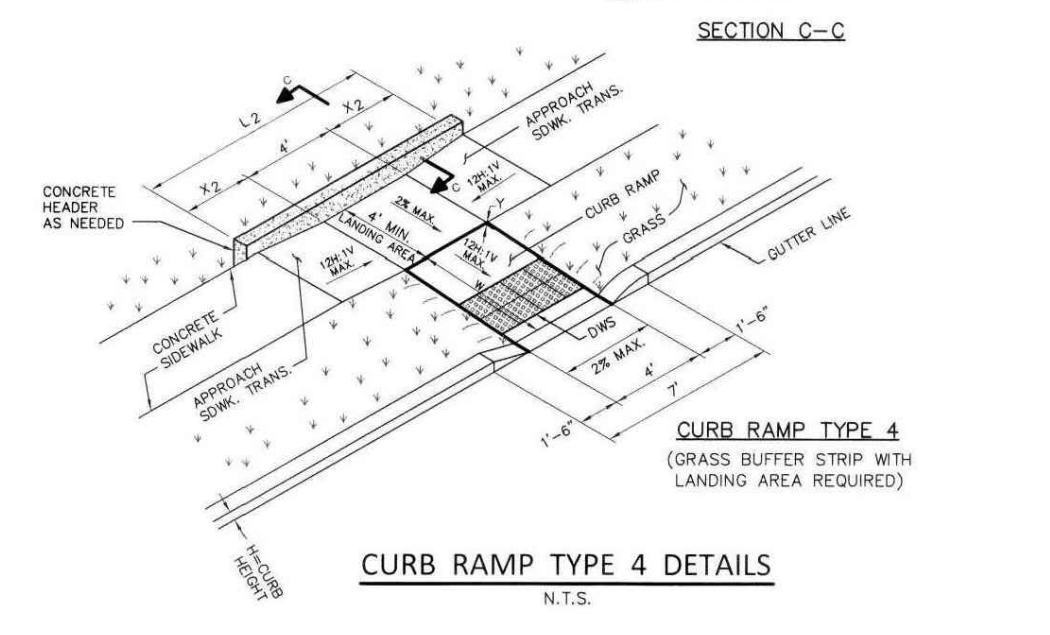
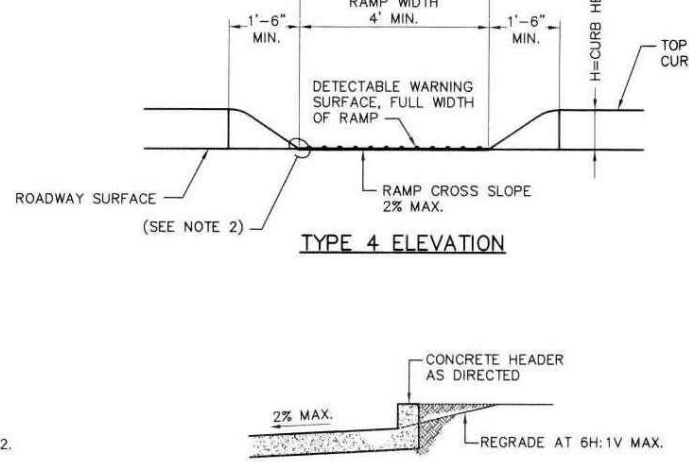


STOP BAR, CENTERLINE AND CROSSWALK STRIPING DETAIL
NOT TO SCALE

TYPE 4 NOTES:
1. THIS TYPE CAN ALSO BE UTILIZED AT CURB RETURNS.
2. CURVING OF CURB TRANSITION AT THE FLUSH CURB TO BE KEPT TO A MINIMUM. ANGLE PREFERRED. CURVATURE ENCROACHING INTO THE 4' RAMP WIDTH WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

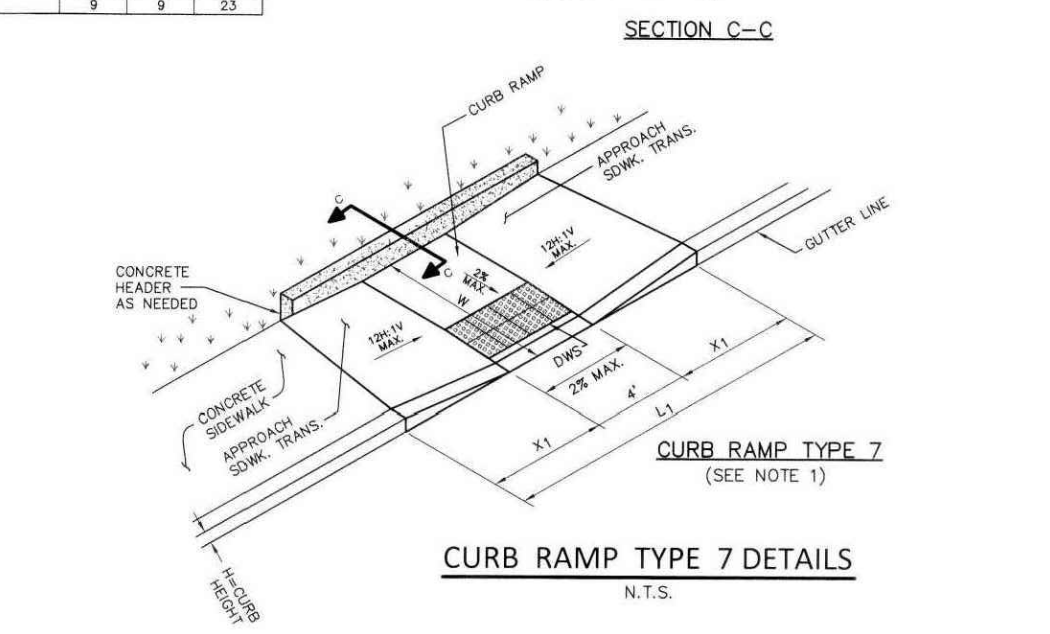
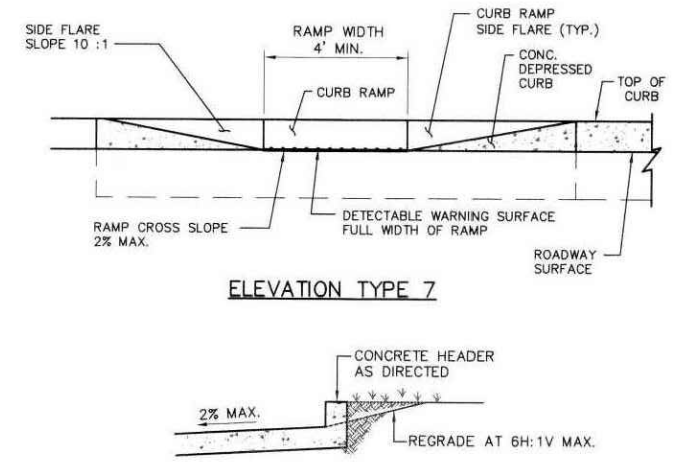
W	H	INCHES	FEET	FEET
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

* TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.



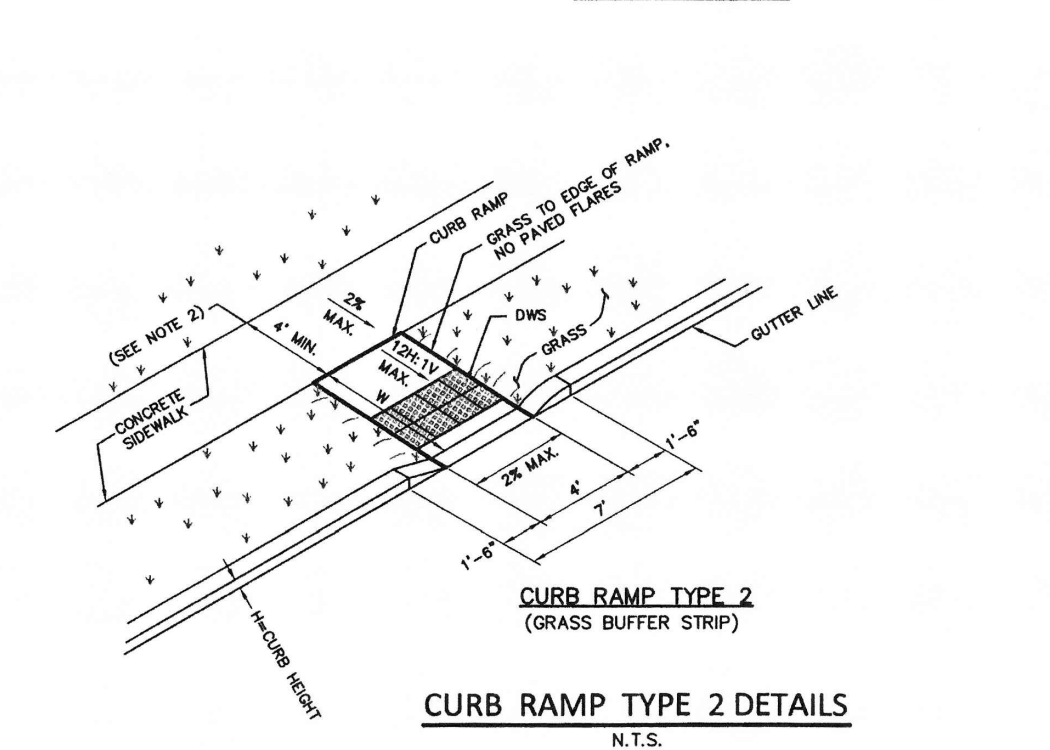
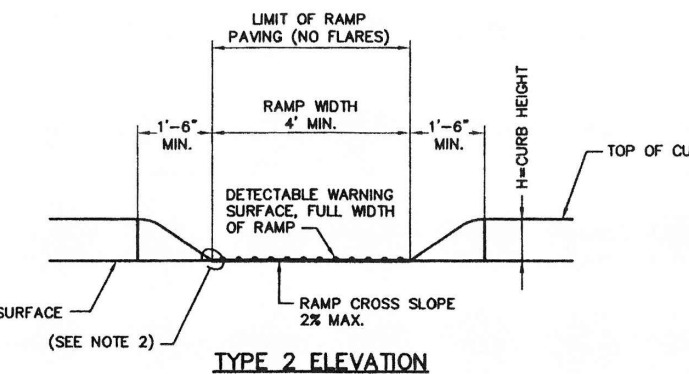
TYPE 7 NOTES:
1. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 8 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
2. IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT SIDEWALK TRANSITION.
3. THIS TYPE CAN ALSO BE USED AT CURB RETURNS.

W	H	INCHES	FEET	FEET
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9



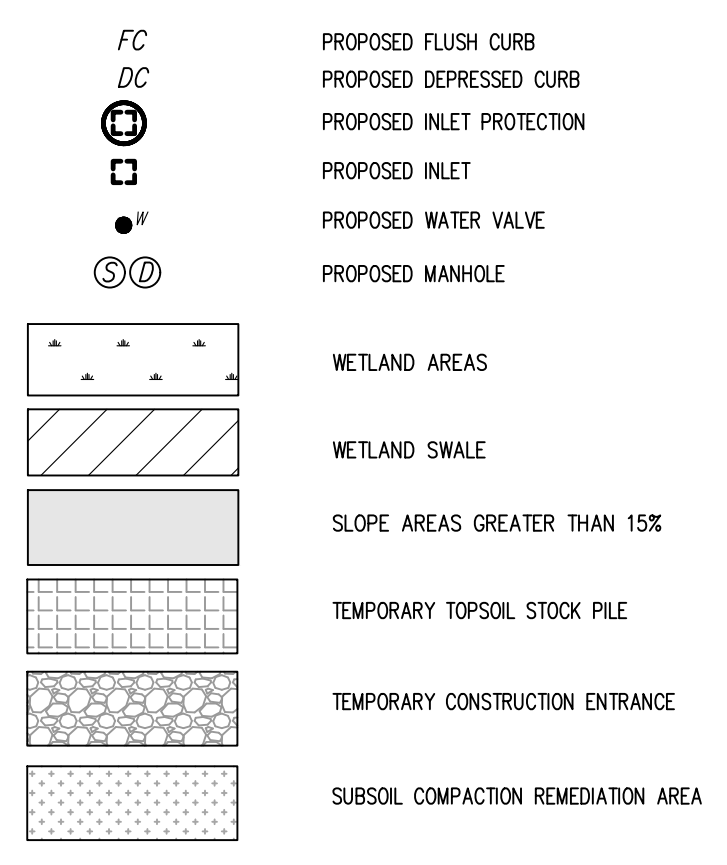
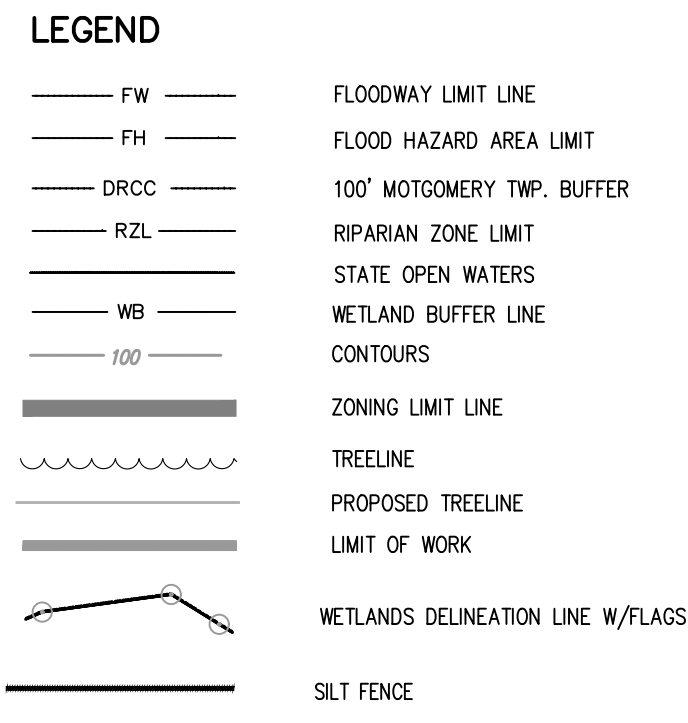
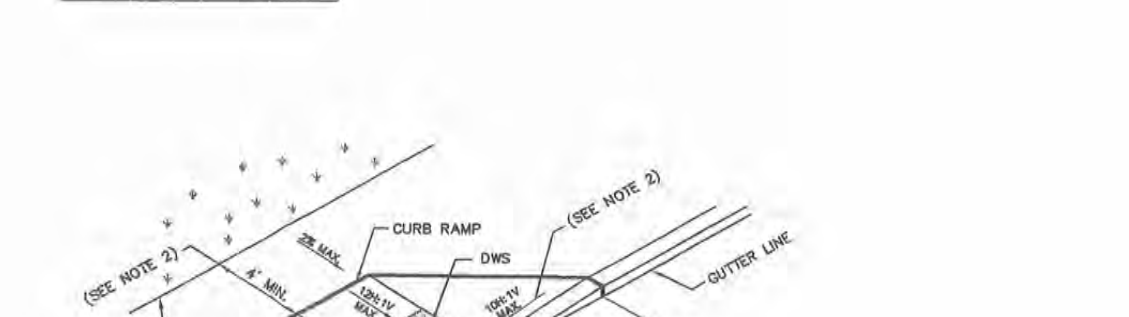
TYPE 2 NOTES:
1. THIS TYPE CAN ALSO BE UTILIZED AT CURB RETURNS.
2. CURVING OF CURB TRANSITION AT THE FLUSH CURB TO BE KEPT TO MINIMUM. ANGLE PREFERRED. CURVATURE ENCROACHING INTO THE 4' RAMP WIDTH WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

W	H	INCHES	FEET	FEET
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9



TYPE 1 NOTES:
1. THIS TYPE CAN ALSO BE UTILIZED AT CURB RETURNS.
2. IF A 4'x4' LANDING CANNOT BE PROVIDED, THEN THE MAXIMUM SLOPE ON THE FLARES IS 12H:1V (8.3%).
3. CONSTRUCTION OF THIS RAMP DIAGONAL TO AN INTERSECTION, REQUIRES APPROVAL OF THE ENGINEER.

W	H	INCHES	FEET	FEET
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9



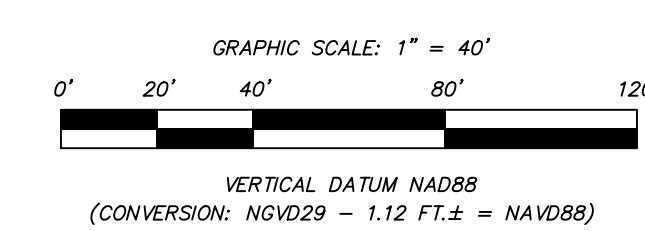
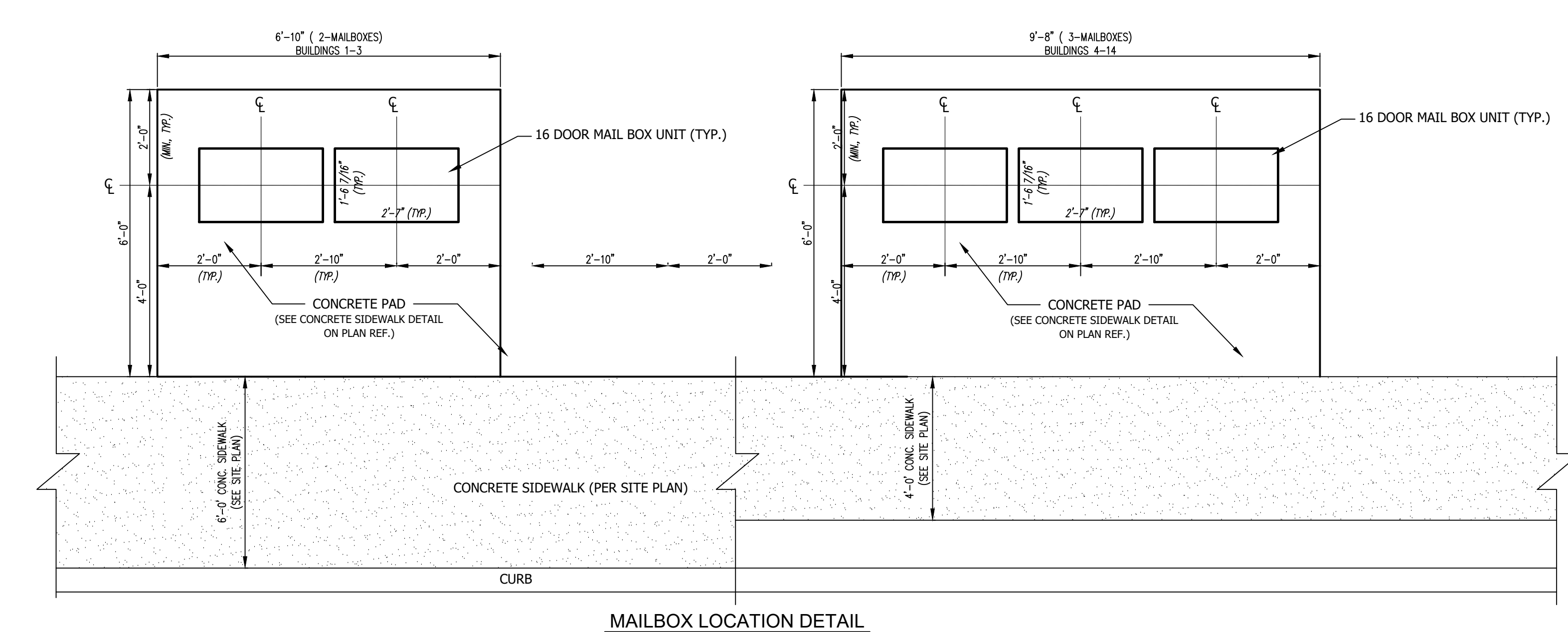
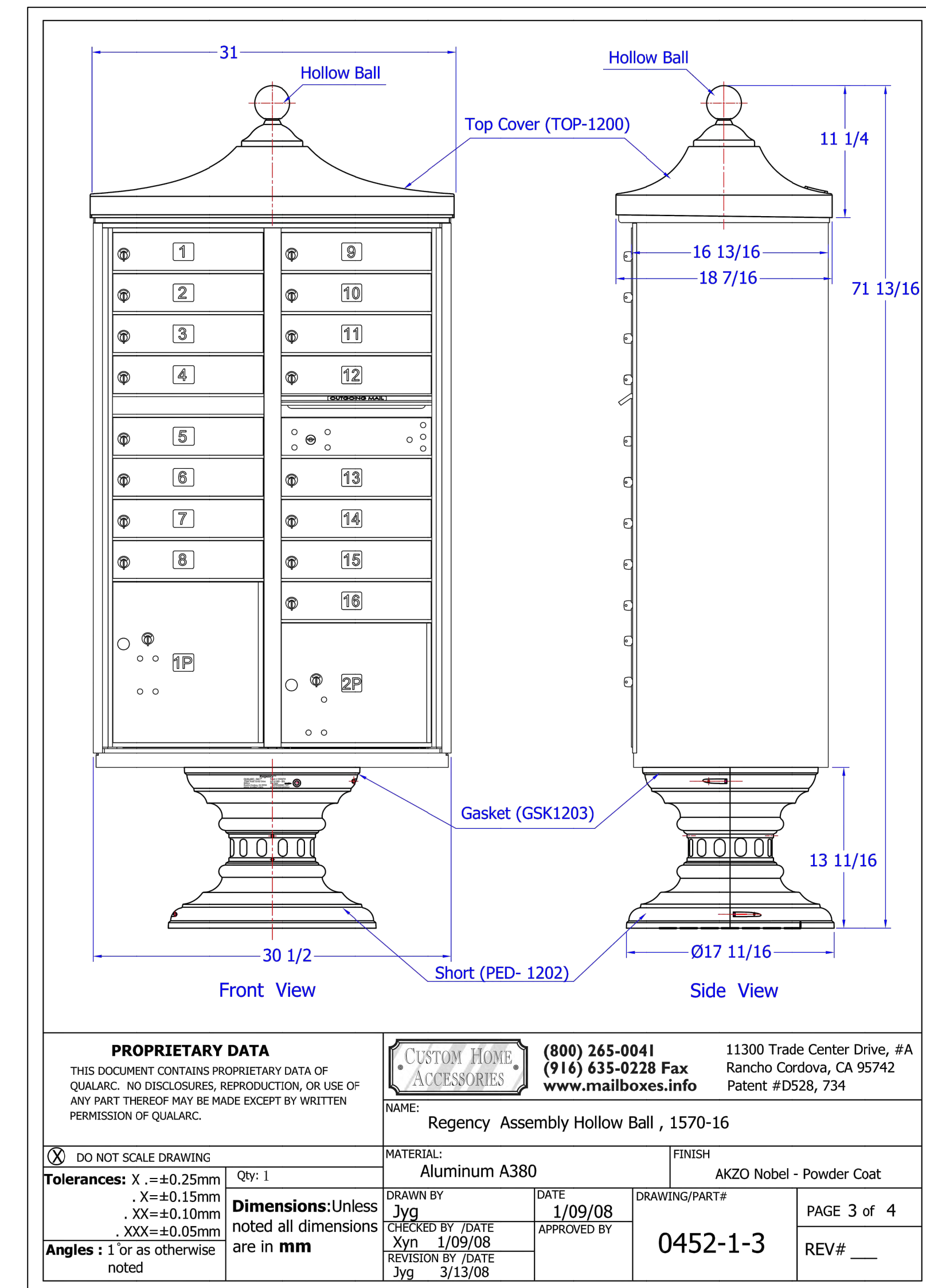
Van Cleeff
ENGINEERING WITH FOCUS

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32 BROWN LANE, HILLSBOROUGH, NJ 08044
WWW.VANCLEEFENGINEERING.COM
PHONE: (609) 529-3200
CERT. OF AUTHORIZATION NO. 2662012200

ACCESSIBLE CURB RAMP PLAN & DETAILS
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

DATE:	JANUARY 17, 2023
SCALE:	1" = 30'
DESIGNED BY:	M.K.F.
DRAWN BY:	A.B.
CHECKED BY:	M.K.F.
JOB No.	18-05-M
PER TOWNSHIP	M.K.F. 03/10/23
REVISIONS	AUTH. DATE

Michael K. Ford
Michael K. Ford, P.E.
Professional Engineer, New Jersey Lic. No. 34722



REVISIONS		AUTH.		DATE		JOB No.	
				JANUARY 17, 2023		18-05-M	

Van Clee
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
32 BROWN LANE, HILLSBOROUGH, NJ 08044
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (609) 599-5291
CERT. OF AUTHORIZATION NO. 26629112180

MAILBOX LOCATION AND DETAILS PLAN
PREPARED FOR
HARLINGEN VILLAGE SQUARE
LOTS 33, 34, 34.01, 35, 35.01 & 36 IN BLOCK 6001
MONTGOMERY TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY

36