

This item has been digitally signed and sealed by ALEX R. ACREE, P.E. on the date adjacent to the seal. Certified copies of this document are not considered signed and sealed and the signature must be verified by electronic means.

MATTHEWS DESIGN GROUP (MDG) IS THE PROJECTS ENGINEER OF RECORD (EOR). MDG IS NOT A GENERAL CONTRACTOR, UTILITY CONTRACTOR, SITE CONTRACTOR, OR ANY OTHER TYPE OF CONTRACTOR.

2. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY OF GREEN COVE SPRINGS LAND DEVELOPMENT CODE, (LATEST REVISION) AND ALL CITY STANDARD DETAILS.

3. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF THEIR EMPLOYEES, AND FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH THE OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.

4. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL VERIFY ALL SURVEY CONTROL POINTS AS PROVIDED IN THE BOUNDARY SURVEY. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING THEMSELVES WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT. THE CONTRACTOR IS ALSO REQUIRED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF OR WITHIN THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE ISSUES THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR REPLACEMENT. THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED, FAILURE OF THE CONTRACTOR TO IDENTIFY/QUANTIFY THE AMOUNT OF UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED DURING THE BID PROCESS WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT.

7. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND CITY OF GREEN COVE SPRINGS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND CITY OF GREEN COVE SPRINGS.

8. FOR BOUNDARY, ROADWAY, AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING PLAN AGREES WITH THE DIMENSIONS SHOWN ON THE ARCHITECTURAL PLAN. IF ANY DIMENSIONS DO NOT AGREE, THE ARCHITECT, ENGINEER, AND OWNER SHALL BE NOTIFIED AND THE DIMENSIONS ADJUSTED PRIOR TO COMMENCING WITH CONSTRUCTION.

9. UNLESS DIRECTED OTHERWISE BY THE OWNER OR THE ENGINEER, THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH ANY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF GREEN COVE SPRINGS RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT.

11. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHEREIN THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

12. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE DIFFERENT FROM THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT, AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.

13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CIVIL ENGINEER TO DETERMINE IF THIS PROJECT IS WITHIN THE CITY'S JURISDICTION FOR INSPECTION. IF SO, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CITY FOR A PRE-CON MEETING FOR INSPECTIONS.

14. DUE TO THE PROXIMITY TO EXISTING RESIDENTIAL HOMES THE APPLICANT SHOULD LIMIT HOURS OF OPERATION TO DAYTIME HOURS AND PROVIDE MITIGATION TO NOISE FROM PUMPS IF 24 HOUR DEWATERING ACTIVITIES ARE REQUIRED.

15. THE BUILDING FOOTPRINTS SHOWN HEREON ARE APPROXIMATE. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.

16. ALL STOP SIGNS SHALL BE FINISHED WITH DIAMOND GRADE HIGH REFLECTIVITY SURFACE.

17. ALL STOP BARS SHALL BE THERMO-PLASTIC MATERIAL.

PAVING & DRAINAGE NOTES:

1. "AS-BUILT" DRAWINGS - DRAINAGE AS-BUILTS (PROVIDED TO CITY OF GREEN COVE SPRINGS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT) ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED AND LICENSED SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD VERIFICATION, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF GREEN COVE SPRINGS STANDARDS AND SPECIFICATIONS AND THE FLORIDA SURVEYING BOARD. THE CONTRACTOR'S RESPONSIBILITY TO PREPARE THE AS-BUILT DRAWINGS FOR APPROVAL BY CITY OF GREEN COVE SPRINGS. IN ADDITION TO THE DRAINAGE SYSTEM THE "AS-BUILTS" SHALL SHOW THE ELEVATIONS AND LOCATION OF THE TOP OF BANK, WATER LEVEL, ANY POINTS OF CHANGE IN SLOPE, TOE OF SLOPE AND POND BOTTOM AT 100' MAXIMUM INTERVALS ALONG POND BANK FOR ALL POND CONSTRUCTION. ALL DIMENSIONS AND ELEVATIONS ON THE CONTROL STRUCTURE DETAILS SHALL BE SHOWN ON AS-BUILT DRAWINGS.

2. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY OF GREEN COVE SPRINGS STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.

3. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.

4. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.

5. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT HIS EXPENSE UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.

6. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.

7. BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED, AND COORDINATED WITH CITY OF GREEN COVE SPRINGS FIRE MARSHAL.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF GREEN COVE SPRINGS STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.

9. UNSUITABLE MATERIALS UNDER WATER PIPE, SEWER PIPE, STORM PIPE, OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED AT CONTRACTOR'S EXPENSE.

10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.

11. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS, AND BUILDINGS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE SJRWMD.

13. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE INCLUDING, BUT NOT LIMITED TO, WETLANDS, CREEKS, SWALES AND MUNICIPAL STORM SEWERS, THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-261.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE DISCHARGE LIMITS, THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONDUCT A SAMPLE OF THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND SHALL COMPLY WITH THE CONDITIONS OF RULE 62-261.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-261.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

14. ALL PIPE LENGTHS ARE SCALED DIMENSIONS, MEASURED FROM CENTER OF STRUCTURE TO END OF MITERED END SECTIONS. STRUCTURES WITHIN FOOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FOOT STANDARDS. ALL STRUCTURES OUTSIDE THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES, AND LOW POINTS AS SHOWN ON THE PLANS.

15. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.

- ### **GENERAL SIGNING & MARKING NOTES:**
1. ALL STRIPING SHALL CONFORM TO CITY OF GREEN COVE SPRINGS AND/OR FDOT SPECIFICATIONS.
 2. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND ENDING OF PROJECT AND ALL SIDE STREETS.
 3. SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 700-010, AND 700-101.
 4. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, CURB CUTS, ETC. SHALL BE ADJUSTED AS DIRECTED BY ENGINEER.
 5. EXISTING SIGNS TO BE REMOVED SHALL BE DELIVERED AND STOCKPILED ON SITE IN THE MATERIALS STORAGE AREA AND RETURNED TO THE OWNER.
 6. COST FOR SIGNING AND MARKING, IF ANY, SHALL BE INCLUDED IN THE COSTS FOR PAVEMENT.

1. ALL STRIPING SHALL CONFORM TO CITY OF GREEN COVE SPRINGS AND/OR FDOT SPECIFICATIONS

- GENERAL DEMOLITION NOTES:**
1. SEE SHEET 5 FOR THE TALLY OF TREES TO BE REMOVED.
 2. ALL UTILITIES SHALL REMAIN IN PLACE AND UNHARMED UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE EROSION CONTROL & DEMOLITION PLAN (SHEET 5).

1. SEE SHEET 5 FOR THE TALLY OF TREES TO BE REMOVED

- EROSION CONTROL NOTES:**
1. NO CONSTRUCTION ACTIVITY INVOLVING EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR AUDIBLE MATERIALS SHALL BEGIN WITHOUT AN APPROVED PLAN AND/OR WRITTEN CONSENT BY THE CITY OF GREEN COVE SPRINGS PUBLIC WORKS.

1. NO CONSTRUCTION ACTIVITY INVOLVING EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR STOCKPILING OF ANY EARTHEN OR AUDIBLE MATERIALS SHALL BEGIN WITHOUT AN APPROVED PLAN AND/OR WRITTEN CONSENT BY THE CITY OF GREEN COVE SPRINGS PUBLIC WORKS.

- GENERAL LANDSCAPE NOTES:**
1. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
 2. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
 3. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.

GENERAL LANDSCAPE NOTES:

1. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
2. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.

5. REMOVE ALL DEAD WOOD AND PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, 1995 EDITION. IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED THE ARBORIST SHALL CONTACT THE LANDSCAPE DESIGNER. REMOVE ALL DEBRIS FROM THE SITE TO AN APPROVED OFF-SITE LOCATION. FOLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI Z133.1 GUIDELINES.

- ROW IMPROVEMENT NOTES:**
1. ALL EXISTING UTILITIES ARE TO BE ADJUSTED TO FINAL GRADE.
 2. CONTRACTOR SHALL REMOVE ANY CONFLICTING STRIPING.

1. ALL EXISTING UTILITIES ARE TO BE ADJUSTED TO FINAL GRADE

- GENERAL FDOT DRIVEWAY CONNECTION NOTES:**
1. ALL WORK PERFORMED WITHIN THE DEPARTMENT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:

1. ALL WORK PERFORMED WITHIN THE DEPARTMENT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:

- GENERAL FIRE PROTECTION NOTES:

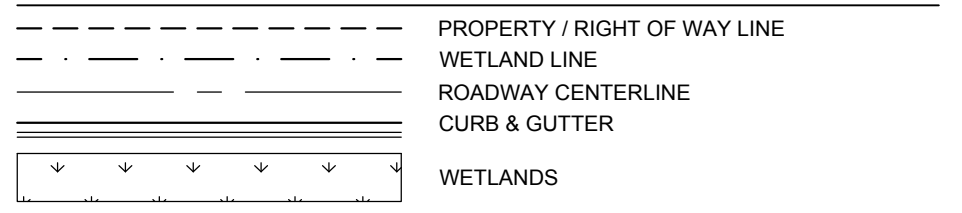
1. FIRE PROTECTION FOR THE PURPOSE OF THESE PLANS IS ANY UNDERGROUND WATER LINE NOT OWNED AND MAINTAINED BY A PUBLIC UTILITY AS WELL AS ANY PRIVATE FIRE SERVICE MAIN AND PIPE AND ITS APPURTENANCES.

- A. NAME OF OWNER AND OCCUPANT.
- B. LOCATION, INCLUDING STREET ADDRESS.
- C. POINT OF COMPASS.
- D. A GRAPHIC REPRESENTATION OF THE SCALE USED ON ALL PLANS.
- E. NAME AND ADDRESS OF CONTRACTOR.
- F. SIZE AND LOCATION OF ALL WATER SUPPLIES.
- G. SIZE AND LOCATION OF ALL PIPING, INDICATING, WHERE POSSIBLE, THE CLASS AND TYPE AND DEPTH OF EXISTING PIPE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED, AND THE DEPTH TO WHICH IT IS TO BE BURIED.
- H. SIZE, TYPE, AND LOCATION OF VALVES. INDICATE IF LOCATED IN PIT OR IF OPERATION IS BY POST INDICATOR OR KEY WRENCH THROUGH A CURB BOX.
- I. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS.
- J. SPRINKLER AND STANDPIPE RISERS AND MONITOR NOZZLES TO BE SUPPLIED BY THE SYSTEM.
- K. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM,

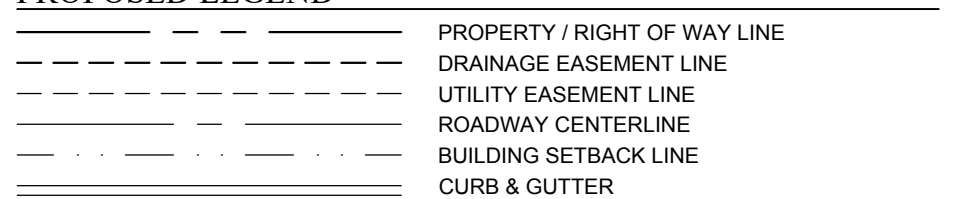
ALL FIRE HYDRANTS INSTALLED IN ST. JOHNS COUNTY MUST HAVE A SINGLE 4.5 INCH HOSE OUTLET, AND TWO (2.5) INCH HOUSE OUTLETS, ALL WITH MALE NH STANDARD THREADS, IN ACCORDANCE WITH NFPA 1963.

9. ALL FIRE LINES MUST BE INSPECTED BY THE FIRE MARSHAL'S OFFICE PRIOR TO BACKFILL. THE CODE REQUIRES ALL JOINTS EXPOSED FOR INSPECTION WITH FILL IN-BETWEEN JOINTS. ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.

9. ALL FIRE LINES MUST BE INSPECTED BY THE FIRE MARSHAL'S OFFICE PRIOR TO BACKFILL. THE CODE REQUIRES ALL JOINTS EXPOSED FOR INSPECTION WITH FILL IN-BETWEEN JOINTS. ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.



XX.XX	
X	SPOT ELEVATION
_____S_____S_____	GRAVITY SEWER
_____fm_____fm_____	FORCE MAIN SEWER
_____w_____w_____	WATER MAIN
_____6_____6_____	MAJOR CONTOUR
_____8_____8_____	MINOR CONTOUR



XX.XX
X
Zf
DRAINAGE SWALE / FLOW DIRECTION
EXISTING TREE TO BE REMOVED

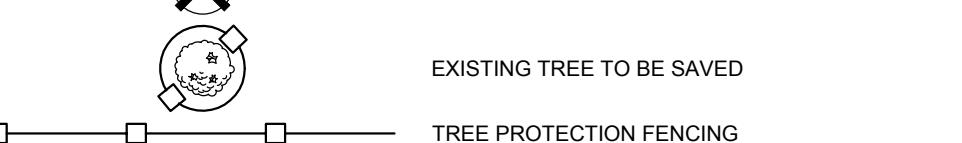
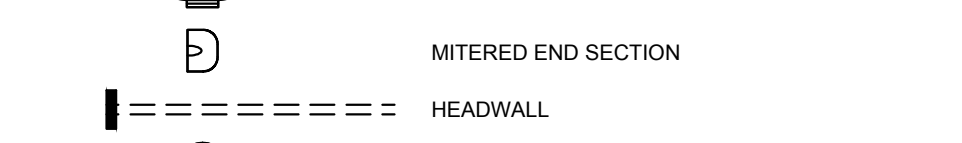
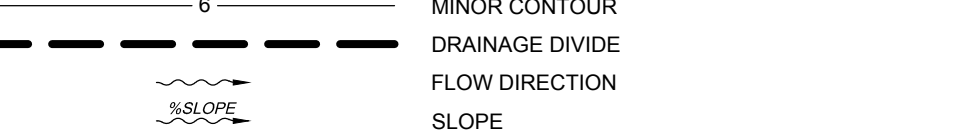


Diagram illustrating three types of stormwater inlet configurations:

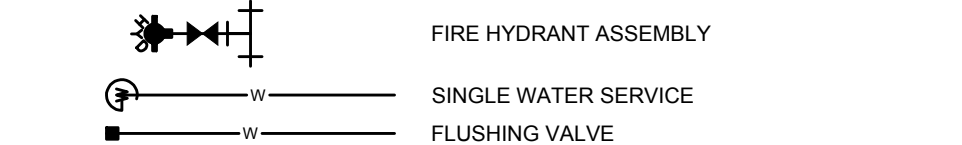
- STORM PIPE**: A horizontal pipe with a square inlet opening.
- STORM DITCH BOTTOM INLET**: A square inlet opening at the bottom of a ditch.
- CURB INLET**: A square inlet opening at the base of a curb.



	STORM MANHOLE
	SPOT ELEVATION
	MAJOR CONTOUR
	MINOR CONTOUR

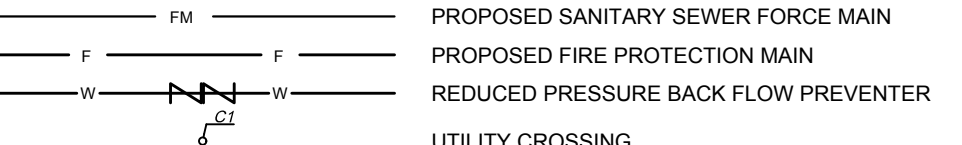


SILT FENCE
 CONSTRUCTION REFERENCE POINT
 PROPOSED WATER MAIN W/SIZE
 PROPOSED GATE VALVE W/BOX AND COVER

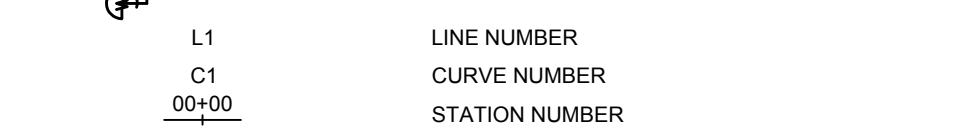




PROPOSED SANITARY SEWER MAIN
 PROPOSED SANITARY SEWER MANHOLE
 SANITARY SEWER CLEAN OUT
 SANITARY SEWER SERVICE LATERAL



	STREET CROSSING
	SAMPLE POINT (SP)
	END OF WATER MAIN PLUG
	DOUBLE WATER SERVICE



58 LOT NUMBER
(XX) NUMBER OF PARKING SPACES

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A	ARC
AC	ACRE
BOC	BACK OF CURB
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BM	BENCHMARK
BOTT	BOTTOM
CI	CURB INLET
CO	CLEANOUT
CB	CHORD BEARING
CH	CHORD
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONSTR	CONSTRUCT
CONT	CONTINUATION
COORD	COORDINATE
DBL CI	DOUBLE CURB INLET
DE	DRAINAGE EASEMENT
DHW	DESIGN HIGH WATER
DIP	DUCTILE IRON PIPE
Δ	DELTA
E	EAST
EOP	EDGE OF PAVEMENT
EL	ELEVATION
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EXIST	EXISTING
FF	FINISH FLOOR
FL	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FP	FIRE PROTECTION MAIN
FLV	FLUSHING VALVE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HWL	HIGH WATER LEVEL
INV	INVERT
LN	LENGTH
LF	LINEAR FEET
MES	MITERED END SECTION
MAX	MAXIMUM
H	HANHOLE
M	MINIMUM
N	NORTH
NC	NOT IN CONTRACT
NG	NATURAL GRADE
NTS	NOT TO SCALE
NWL	NORMAL WATER LEVEL
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
P	POINT OF INTERSECTION
POB	POINT OF BEGINNING
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INFLECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
RP	RADIUS POINT
ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RP2BDP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SOUTH
San	SANITARY
SEP	SEPARATION
SL	SLOPE
SP	SAMPLE POINT
SH	SHEET
STW	STATION
SWM	STORM WATER MANAGEMENT FACILITY
TOP	TOP OF BANK
SWR	SEWER
TOC	TOP OF CURB
TRI CI	TRIPLE CURB INLET
TYP	TYPICAL
UDAE	UNOBSTRUCTED DRAINAGE & ACCESS EASEMENT
UD	UNOBSTRUCTED DRAINAGE EASEMENT
UE	UTILITY EASEMENT
VC	VERTICAL CURVE
W	WEST
WM	WATER MAIN

GENERAL NOTES

Matthews | **DECM**
P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

ISSUED BY		DTS		REVISIONS	
DATE BY		DTS		NO.	DESCRIPTION
04-02-25		ARA		1	REVISED PER CITY COMMENTS
DATE:					
JOB NO:		22034			

REGISTERED ENGINEER
ALEX R. ACREE, P.E.
CA#26535 FI #73155

This item has been digitally signed and sealed by ALEX R. ACREE, P.E. on the date adjacent to the seal.

GREEN COVE MULTI-FAMILY HOUSING CONSTRUCTION DOCUMENTS 2024 - SITE PLANS 11/13 AM, D:\P\Green Cove\ELI MATTHEWS DESIGN GROUP, INC.
6/20/2024 10:20:20 AM
MATCH LINE: SEE SHEET 7
MATCH LINE: SEE SHEET 9



GRAPHIC SCALE

0 30' 45' 60'

1" = 30'

SITE DETAILS

SD1 CONCRETE SIDEWALK
SD4 18" STANDARD CURB & GUTTER (REVERSE PITCH)
SD7 WHEELCHAIR RAMP IN SIDEWALK
SD8 STOP SIGN
SD9 WHEELCHAIR RAMP IN SIDEWALK AT CURB RETURN
SD10 PARKING PAINT STRIPING
SD11 TYPICAL PAVEMENT SECTION
SD12 PRECAST CONCRETE WHEELSTOP
SD15 ACCESSIBLE PARKING SIGN
SD18 STOP BAR
SD25 CURB WALK
SD26 DETECTABLE WARNING DETAIL

SITE NOTES

S01 6" WHITE PEDESTRIAN CROSSING STRIPING
S02
S03

GENERAL NOTES

- ALL DIMENSIONS ARE LISTED TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB.
- ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

HATCH LEGEND

ASPHALT PAVEMENT	
CONCRETE SIDEWALK	

KEY MAP

Matthews **BCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

SITE PLAN

PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-25	REVISED PER CITY COMMENTS

REGISTERED ENGINEER
E. E. E.
CA#26535, FL #7535

SHEET NO.
8
OF 25

GREEN COVE MULTI-FAMILY HOUSING CONSTRUCTION DOCUMENTS 2024 - SITE PLANNING 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

T.B.M. NO. 2
SET PK NAIL AT
EDGE OF PAVEMENT
ELEV. (27.06)
NAD 88 DATUM

MATCH LINE: SEE SHEET 8

COUNTY ROAD No. 209
(AN 80 FOOT PUBLIC ROAD RIGHT-OF-WAY)

10+00

25' SETBACK

GATE

4' HOG WIRE FENCE

10' SETBACK

DUMPSTER

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

MAINTENANCE / PET SPA - BUILDING

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

10' SETBACK

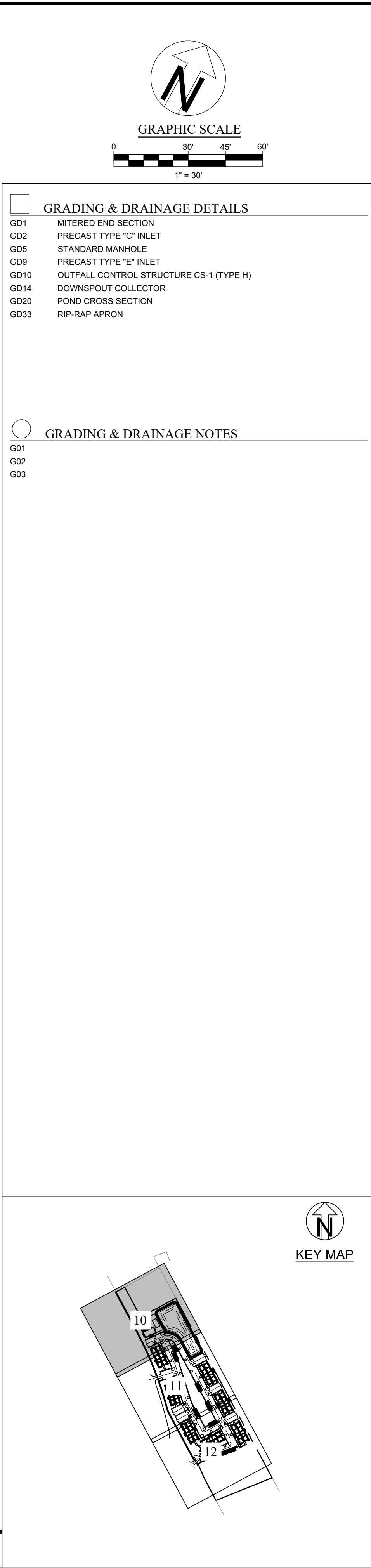
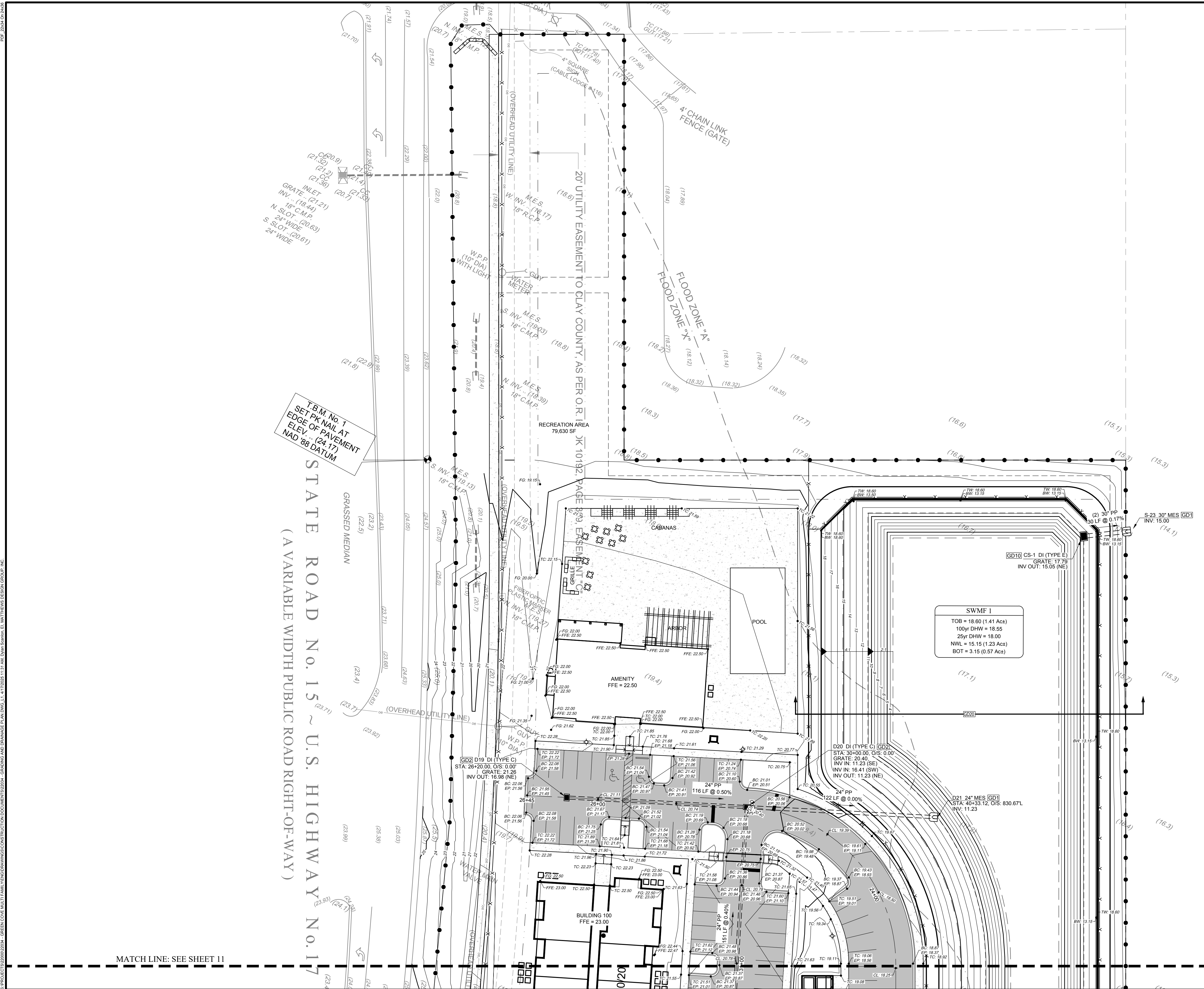
10' SETBACK

10' SETBACK

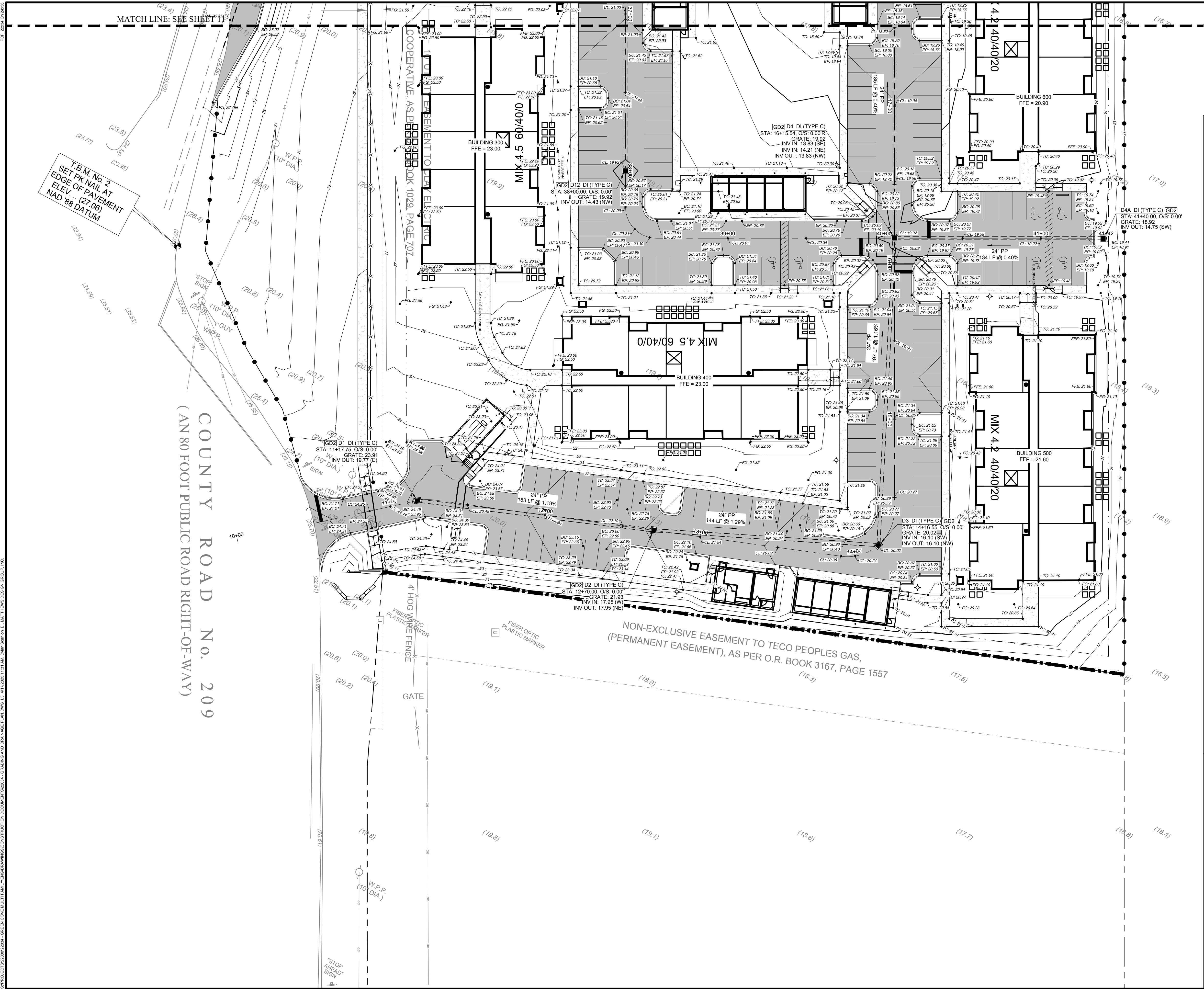
10' SETBACK

10' SETBACK

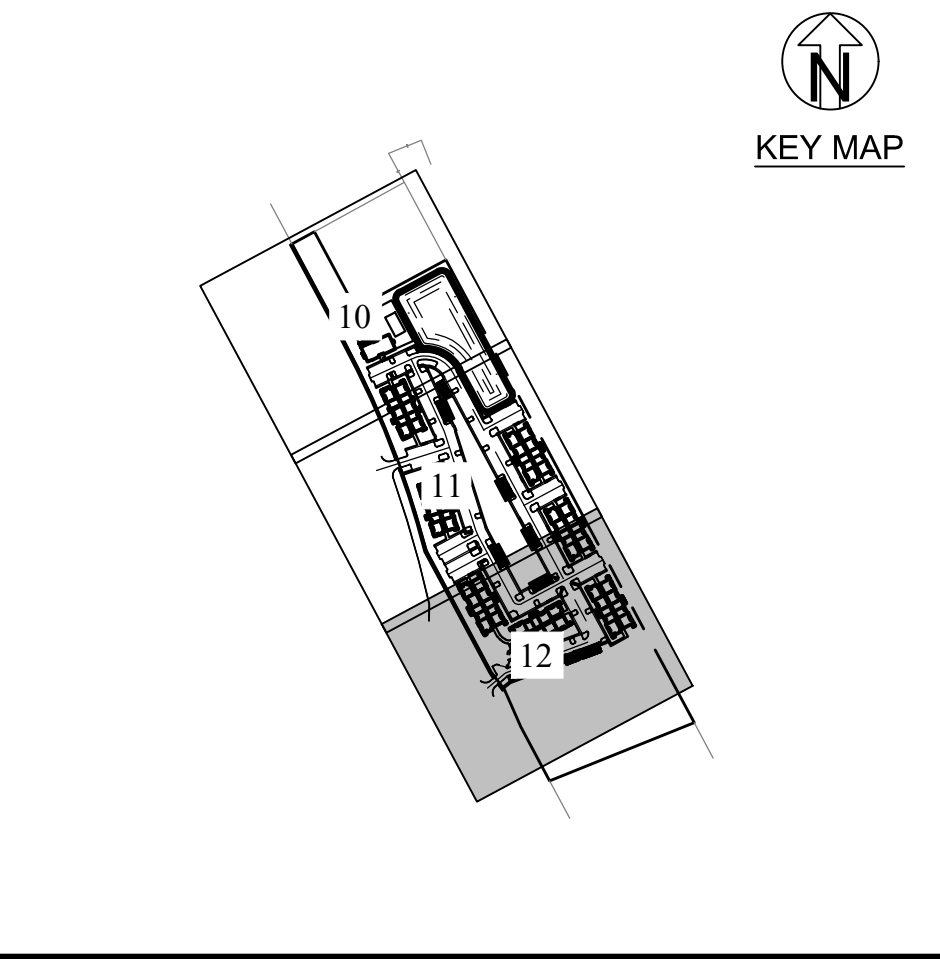
10' SETBACK



GREEN COVE MULTI-FAMILY RESIDENCING CONSTRUCTION DOCUMENTS 2024 - GRADING AND DRAINAGE PLAN (SHEET 12 OF 25) 11:31 AM 04/04/2024 E. MATTHEWS DESIGN GROUP, INC.



- GRADING & DRAINAGE DETAILS**
- GD1 MITERED END SECTION
 - GD2 PRECAST TYPE "C" INLET
 - GD5 STANDARD MANHOLE
 - GD9 PRECAST TYPE "E" INLET
 - GD10 OUTFALL CONTROL STRUCTURE CS-1 (TYPE H)
 - GD14 DOWNSPOUT COLLECTOR
 - GD20 POND CROSS SECTION
 - GD33 RIP-RAP APRON
- GRADING & DRAINAGE NOTES**
- G01
 - G02
 - G03



GRADING & DRAINAGE PLAN

PRESERVE AT GREEN COVE SPRINGS

CITY OF GREEN COVE SPRINGS

PREPARED FOR

PC ACQUISITION LLC

Matthews

P.O. BOX 3126, 7 WALDO STREET

ST. AUGUSTINE, FL 32084

PHONE: 904.826.1334 • FAX: 904.826.4547

INFO@MDGNC.COM

REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-25	REVISED PER CITY COMMENTS

DTS

DTS

DATE

22034

REGISTERED ENGINEER

E. MATTHEWS

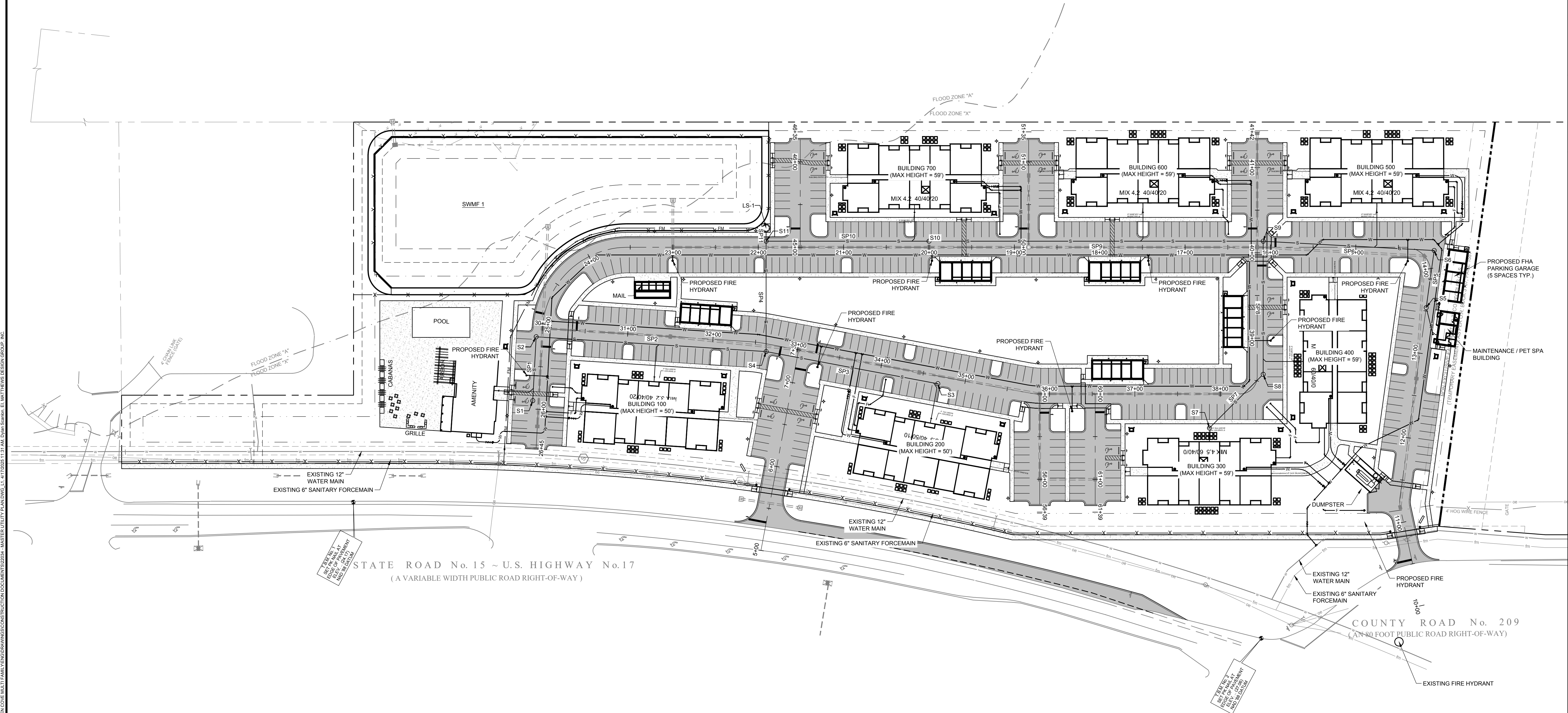
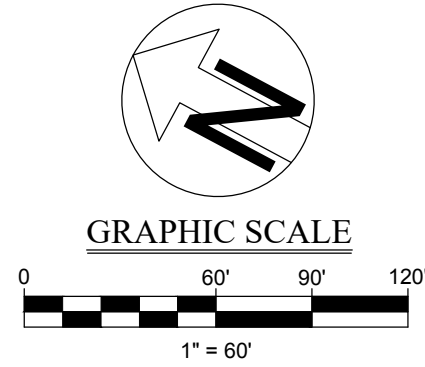
CA26535 - FL 07/2015

12

OF 25

STRUCTURE TABLE				
STRUCTURE	TYPE	RIM	INV IN	INV OUT
LS-1	Wet Well	18.77	10.58 (SW)	
S1	San Concrete Manhole (With Cone)	21.11		14.65 (NE)
S2	San Concrete Manhole (With Cone)	20.55	14.35 (SW)	14.25 (SE)
S3	San Concrete Manhole (With Cone)	20.74		14.90 (N)
S4	San Concrete Manhole (With Cone)	21.65	13.17 (NW) 14.08 (S)	13.07 (NE)
S5	San Concrete Manhole (With Cone)	20.83		15.30 (E)
S6	San Concrete Manhole (With Cone)	20.17	15.03 (W)	14.93 (NW)
S7	San Concrete Manhole (With Cone)	21.30		14.35 (E)
S8	San Concrete Manhole (With Cone)	20.42	13.99 (W)	13.89 (NE)
S9	San Concrete Manhole (With Cone)	19.97	13.27 (SW) 14.13 (SE)	13.17 (NW)
S10	San Concrete Manhole (With Cone)	18.07	11.60 (SE)	11.50 (NW)
S11	San Concrete Manhole (With Cone)	18.27	12.55 (SW) 10.74 (SE)	10.64 (NE)

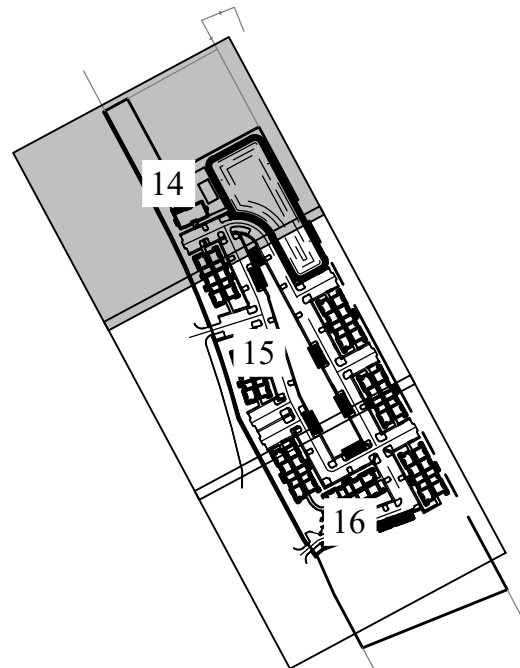
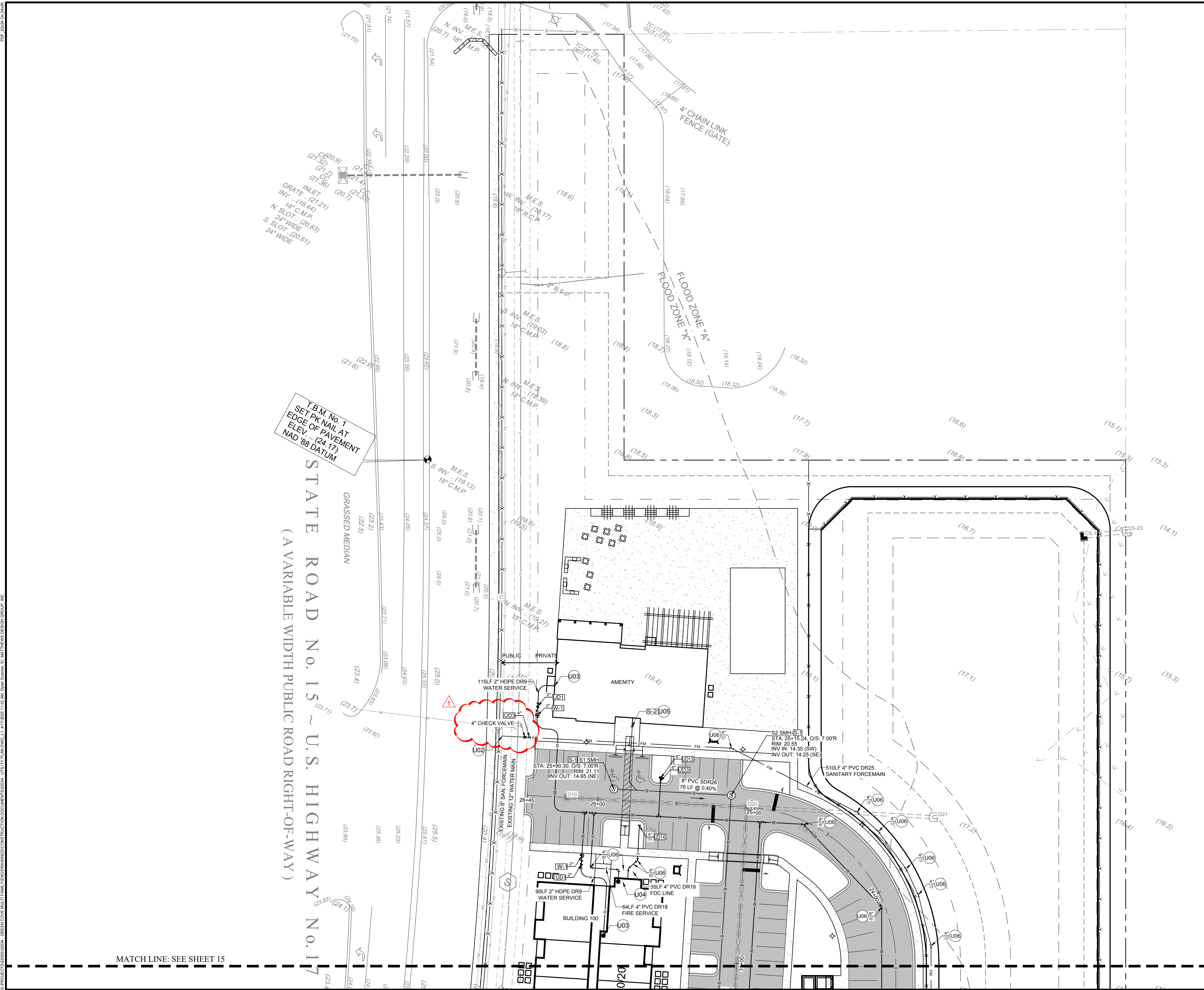
PIPE TABLE				
PIPE	SIZE	MATERIAL	LENGTH	SLOPE
SP1	8"	PVC SDR26	78'	0.40%
SP2	8"	PVC SDR26	270'	0.40%
SP3	8"	PVC SDR26	205'	0.40%
SP4	8"	PVC SDR26	130'	0.40%
SP5	8"	PVC SDR26	68'	0.40%
SP6	8"	PVC SDR26	201'	0.40%
SP7	8"	PVC SDR26	90'	0.40%
SP8	8"	PVC SDR26	156'	0.40%
SP9	8"	PVC SDR26	392'	0.40%
SP10	8"	PVC SDR26	191'	0.40%
SP11	8"	PVC SDR26	16'	0.40%

[illegible]

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

MASTER UTILITY PLAN
PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC



UTILITY DETAILS

- | | |
|------|--|
| S-1 | SANITARY SEWER MANHOLE |
| S-2 | CLEANOUT DETAIL |
| W-1 | WATER SERVICE DETAIL - 2" AND SMALLER METER |
| UD1 | REDUCED PRESSURE BACKFLOW PREVENTOR |
| UD2 | DOUBLE CHECK DETECTOR FIRE FLOW ASSEMBLY |
| UD3 | GATE VALVE INSTALLATION |
| UD10 | PRIVATE DUPLEX LIFT STATION WITH FIBERGLASS TANK |
| UD13 | FIRE HYDRANT INSTALLATION |
| UD14 | TYP. YARD TYPE FDC CONNECTION |

UTILITY NOTES

- | | |
|-----|---|
| U01 | POINT OF CONNECTION - TIE PROPOSED 8" PVC WATER MAIN TO EXISTING 12" PVC WATER MAIN. |
| U02 | POINT OF CONNECTION - TIE PROPOSED 4" PVC SANITARY FORCEMAIN TO EXISTING 6" PVC SANITARY FORCEMAIN. |
| U03 | POINT OF CONNECTION - PROPOSED WATER SERVICE TO BUILDING. |
| U04 | POINT OF CONNECTION - PROPOSED FIRE SERVICE TO BUILDING. |
| U05 | POINT OF CONNECTION - PROPOSED SANITARY SERVICE TO BUILDING |
| U06 | M.J. BEND - SEE CALL OUT FOR SIZE AND ANGLE |
| U07 | M.J. TEE - SEE CALL OUT FOR SIZE |
| U08 | M.J. REDUCER - SEE CALL OUT FOR SIZE |

[illegible]

DSGN BY:	DTS
DWG BY:	DTS
CHK BY:	ARA
DATE:	03-12-25
JOB No.:	22034

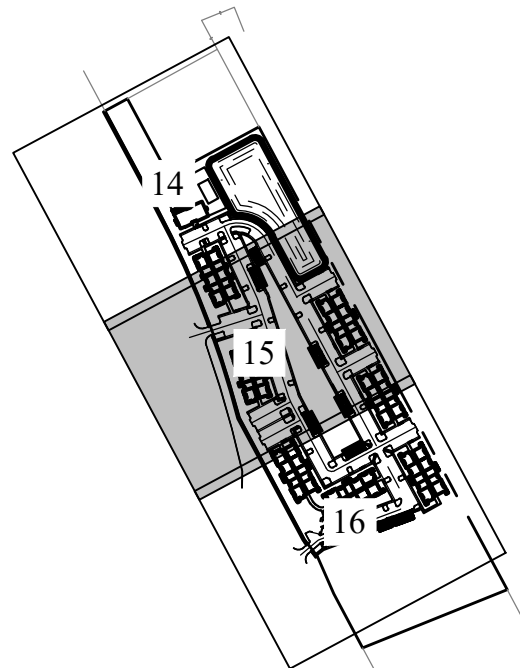
Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

UTILITY PLAN
PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

SHEET No.:
14
OF 25

This item has been digitally signed and sealed by ALEX R. ACREE, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



UTILITY DETAILS

- | | |
|------|--|
| S-1 | SANITARY SEWER MANHOLE |
| S-2 | CLEANOUT DETAIL |
| W-1 | WATER SERVICE DETAIL - 2" AND SMALLER METER |
| UD1 | REDUCED PRESSURE BACKFLOW PREVENTOR |
| UD2 | DOUBLE CHECK DETECTOR FIRE FLOW ASSEMBLY |
| UD3 | GATE VALVE INSTALLATION |
| UD10 | PRIVATE DUPLEX LIFT STATION WITH FIBERGLASS TANK |
| UD13 | FIRE HYDRANT INSTALLATION |
| UD14 | TYP. YARD TYPE FDC CONNECTION |

UTILITY NOTES

- | | |
|-----|---|
| U01 | POINT OF CONNECTION - TIE PROPOSED 8" PVC WATER MAIN TO EXISTING 12" PVC WATER MAIN. |
| U02 | POINT OF CONNECTION - TIE PROPOSED 4" PVC SANITARY FORCEMAIN TO EXISTING 6" PVC SANITARY FORCEMAIN. |
| U03 | POINT OF CONNECTION - PROPOSED WATER SERVICE TO BUILDING. |
| U04 | POINT OF CONNECTION - PROPOSED FIRE SERVICE TO BUILDING. |
| U05 | POINT OF CONNECTION - PROPOSED SANITARY SERVICE TO BUILDING |
| U06 | M.J. BEND - SEE CALL OUT FOR SIZE AND ANGLE |
| U07 | M.J. TEE - SEE CALL OUT FOR SIZE |
| U08 | M.J. REDUCER - SEE CALL OUT FOR SIZE |

[illegible]

Matthews | **DCCM**

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084

PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

UTILITY PLAN
PRESERVE AT GREEN COVE SPRINGS

SHEET No.:
15
OF 25

This item has been digitally signed and sealed by ALEX R. ACREE, P.E. on the date adjacent to the seal. Stated copies of this document are not considered signed and sealed and the signature must be verified on the electronic copies.

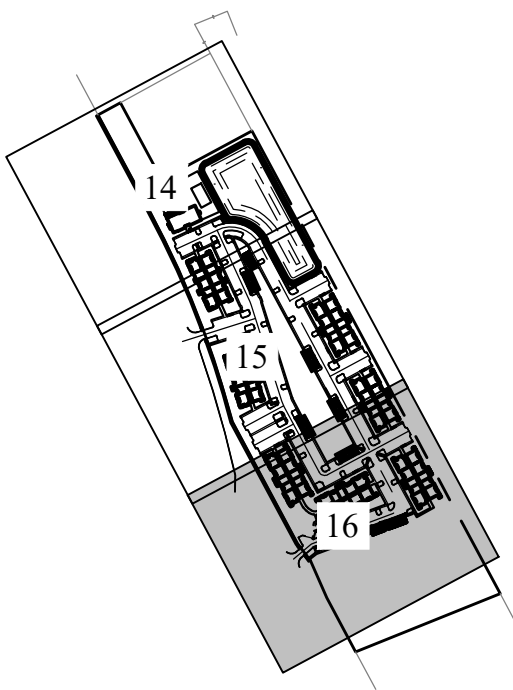
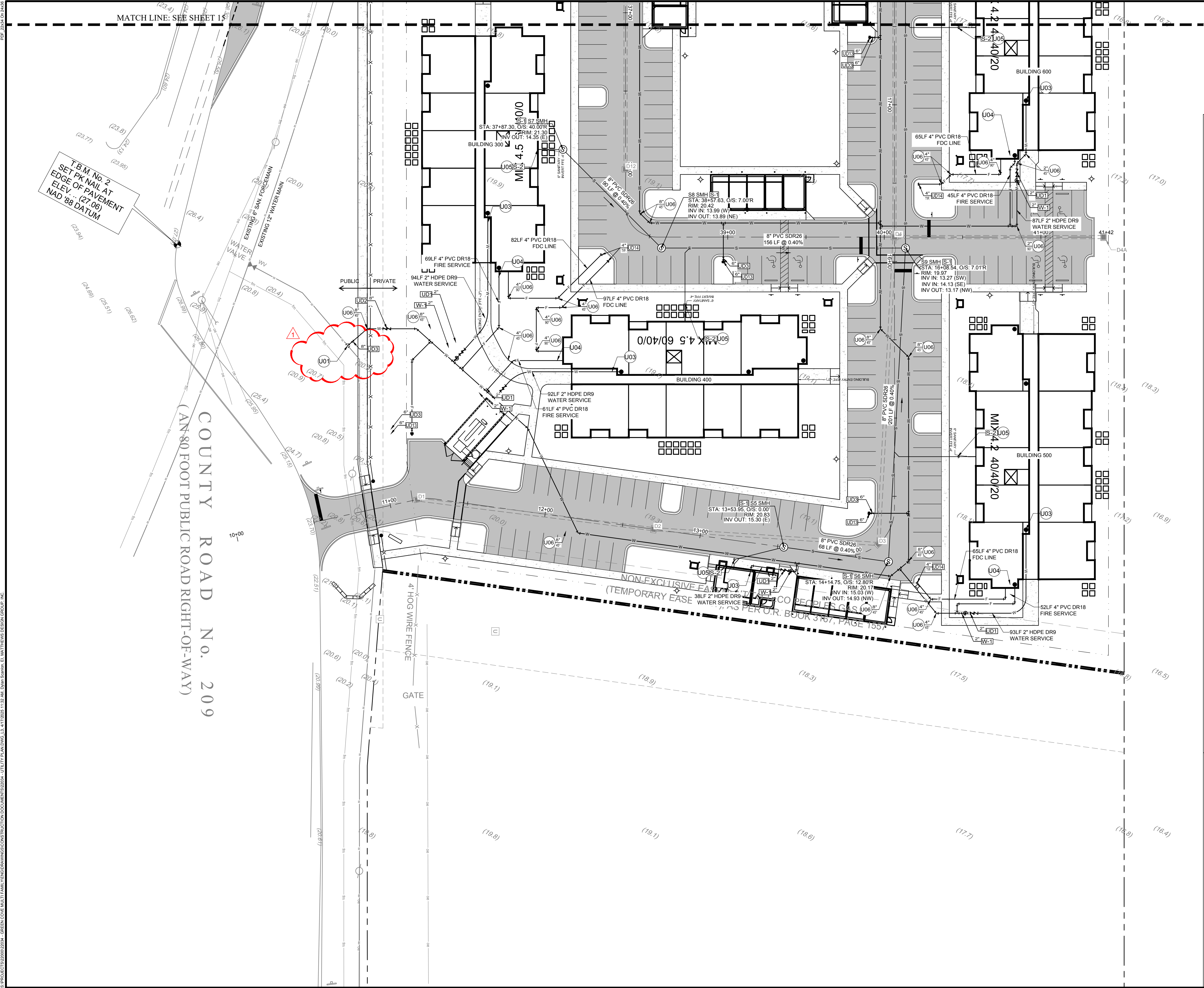
REGISTERED ENGINEER
ALEX R. ACREE, P.E.
CA#26535 FI #73155

ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

PC ACQUISITION LLC
PREPARED FOR
OF GREEN COVE SPRINGS

1

GREEN COVE MULTI-FAMILY RESIDENCES CONSTRUCTION DOCUMENTS/ISSUES UTILITY PLANNING 14.4172026 1.103 AM 04/04/2024 E. MATTHEWS DESIGN GROUP, INC.



KEY MAP

UTILITY PLAN

PRESERVE AT GREEN COVE SPRINGS

CITY OF GREEN COVE SPRINGS

PREPARED FOR

PC ACQUISITION LLC

Matthews **DECM**

P.O. BOX 3126, 7 WALDO STREET

ST. AUGUSTINE, FL 32084

PHONE: 904.826.1334 • FAX: 904.826.4547

INFO@MDGNC.COM

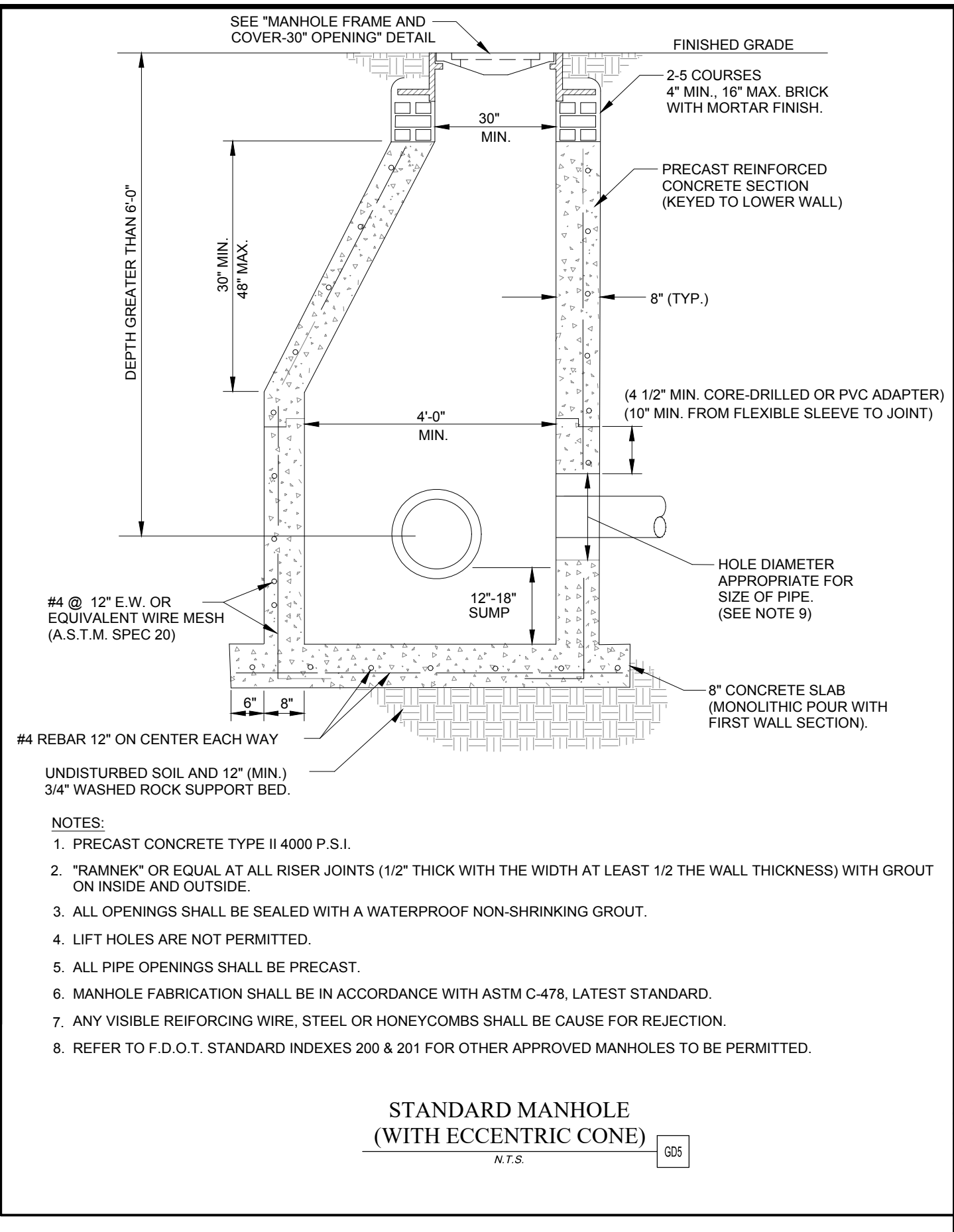
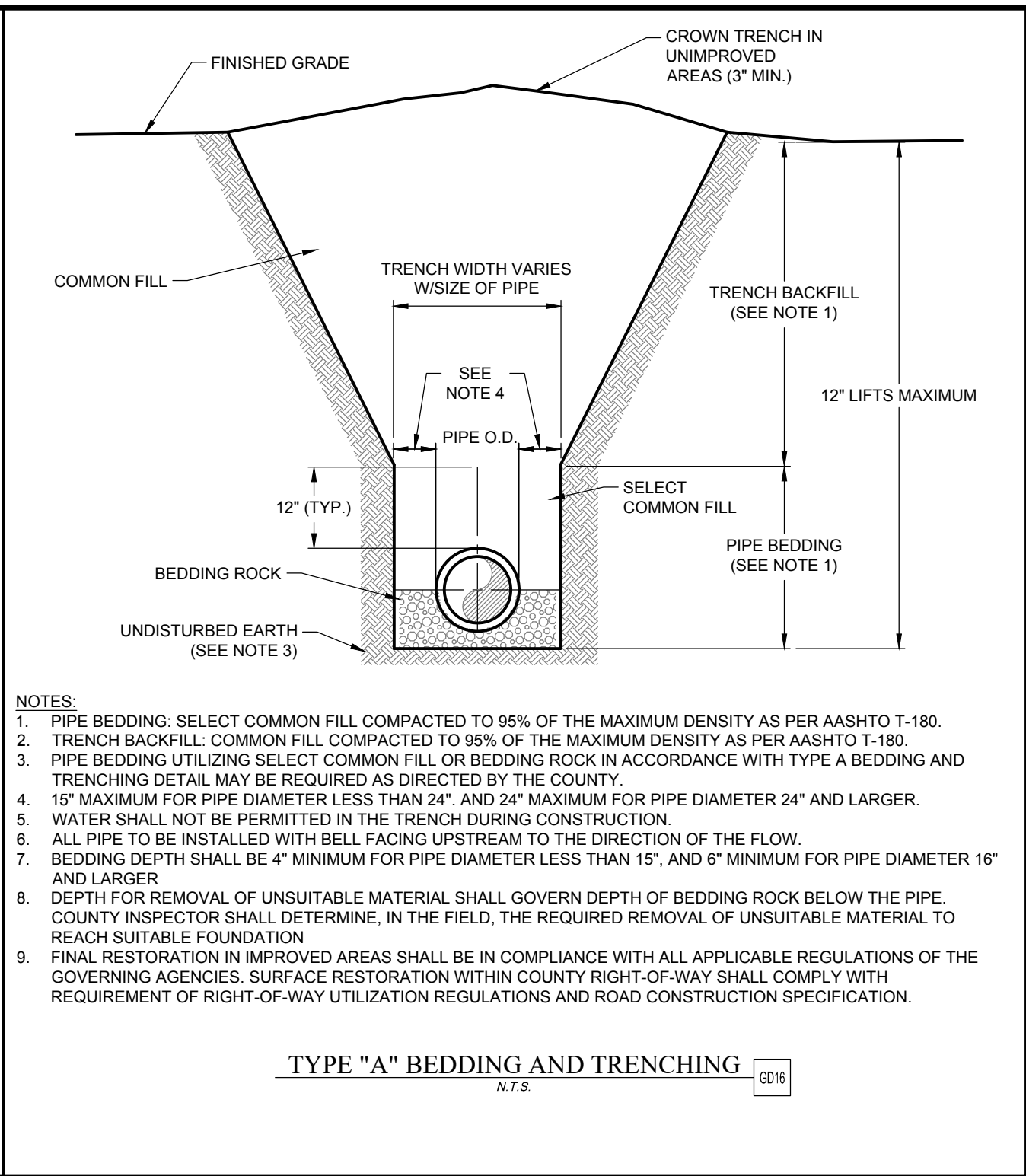
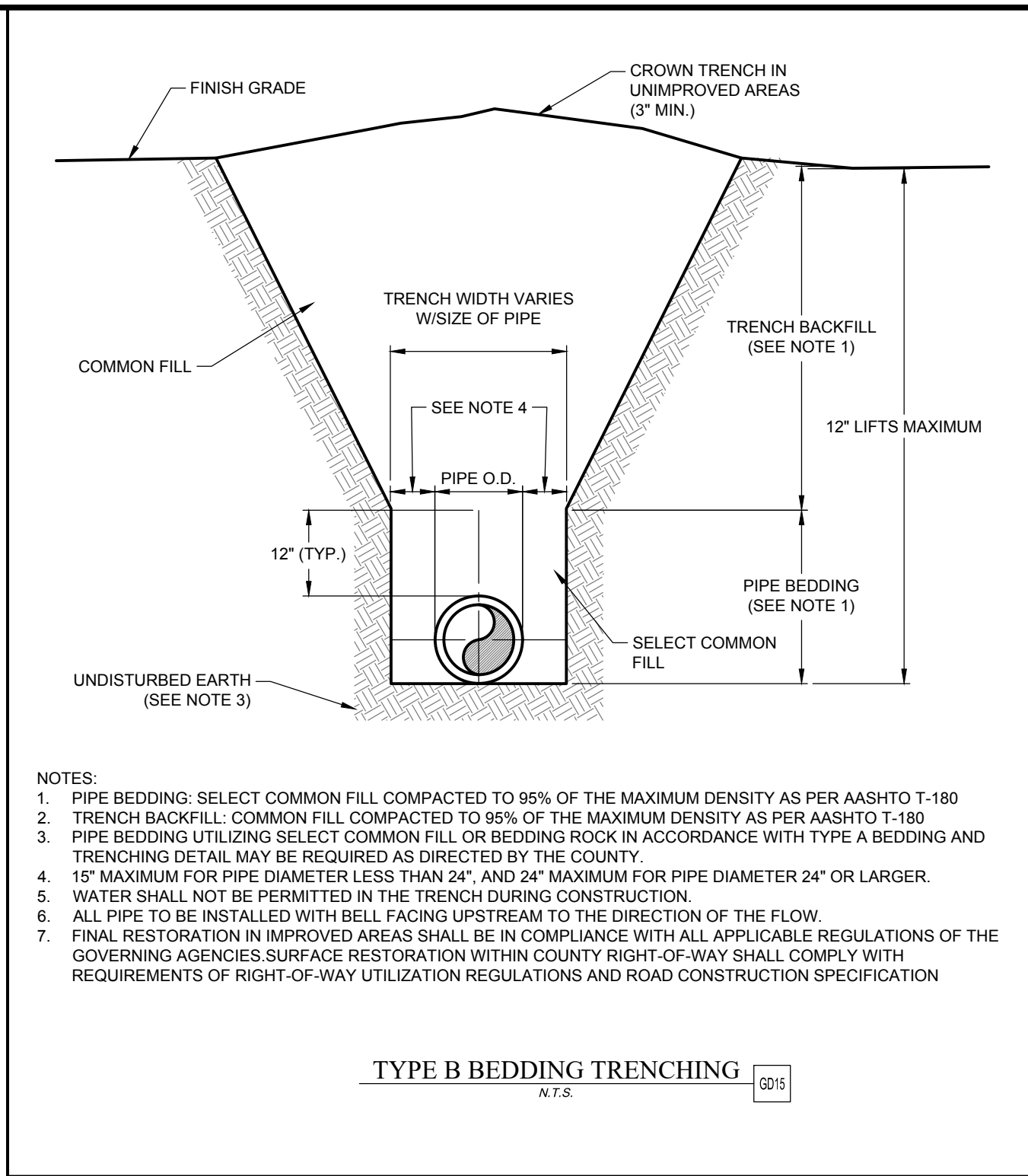
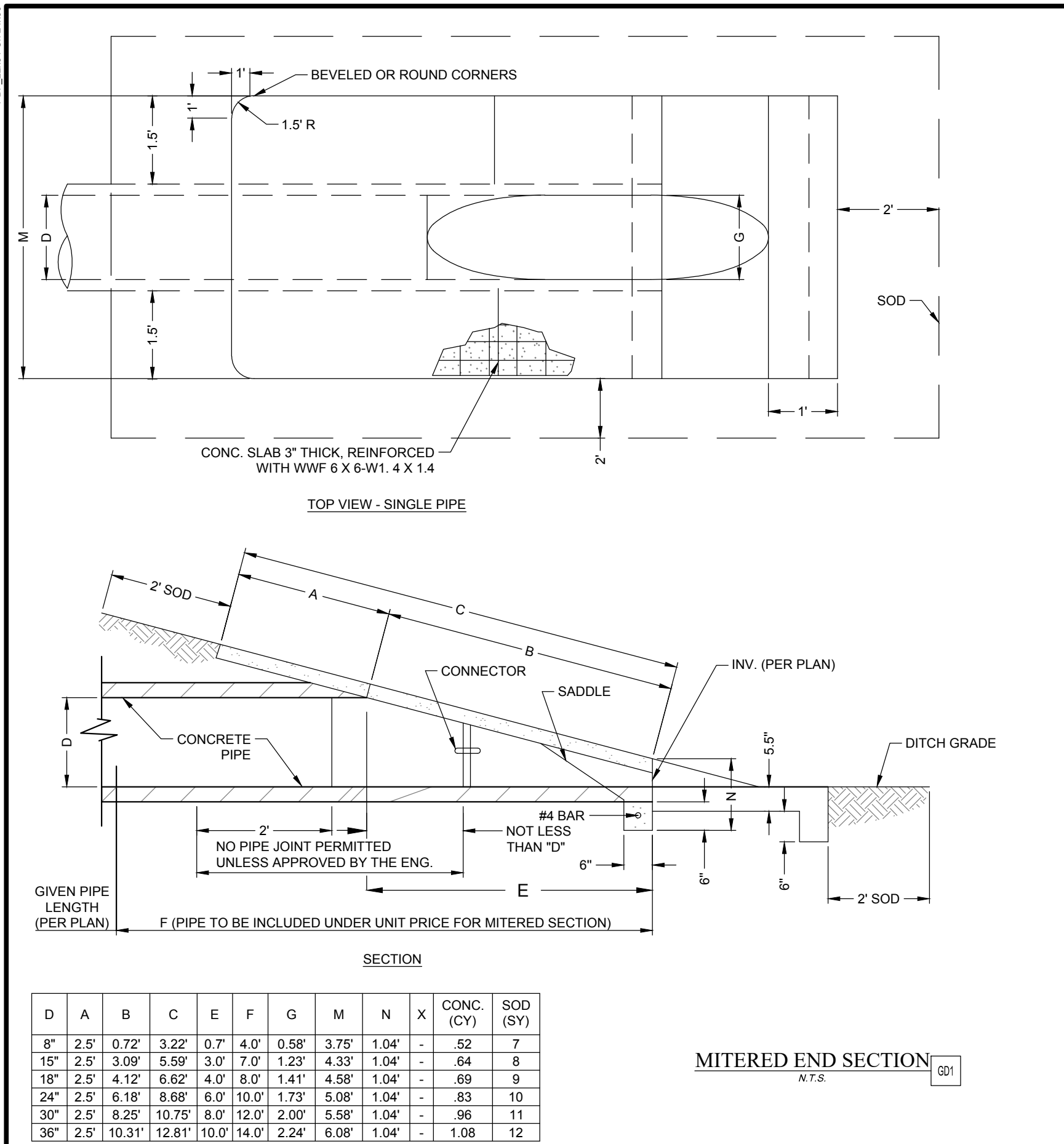
DESIGN BY		DTS	
DRAWN BY	DTS	DATE	DESCRIPTION
CHK BY	ARA	04-02-25	REVISED PER CITY COMMENTS
DATE	03-12-25		
JOB NO.	22034		

REGISTERED ENGINEER

NAME: E. MATTHEWS

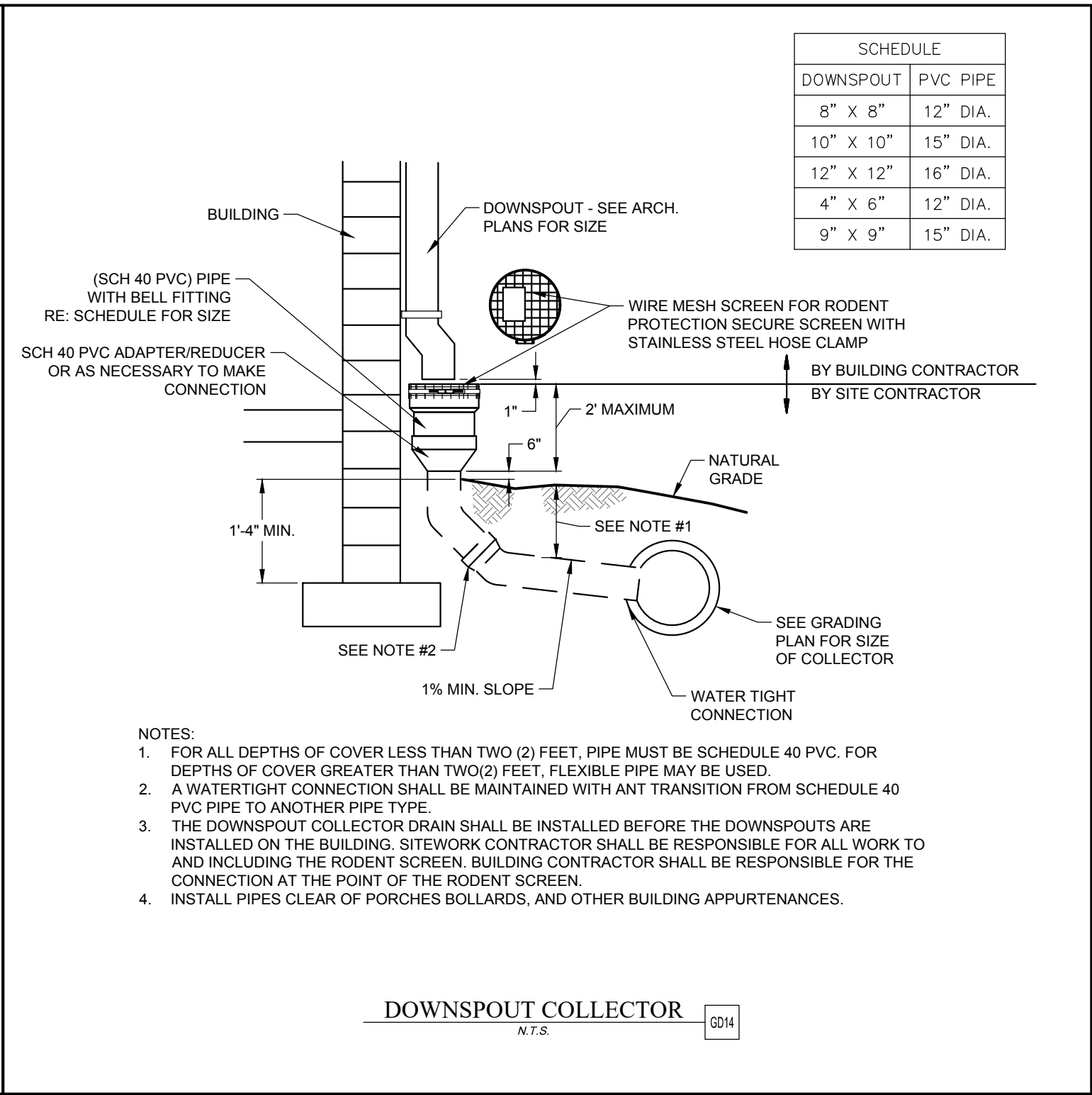
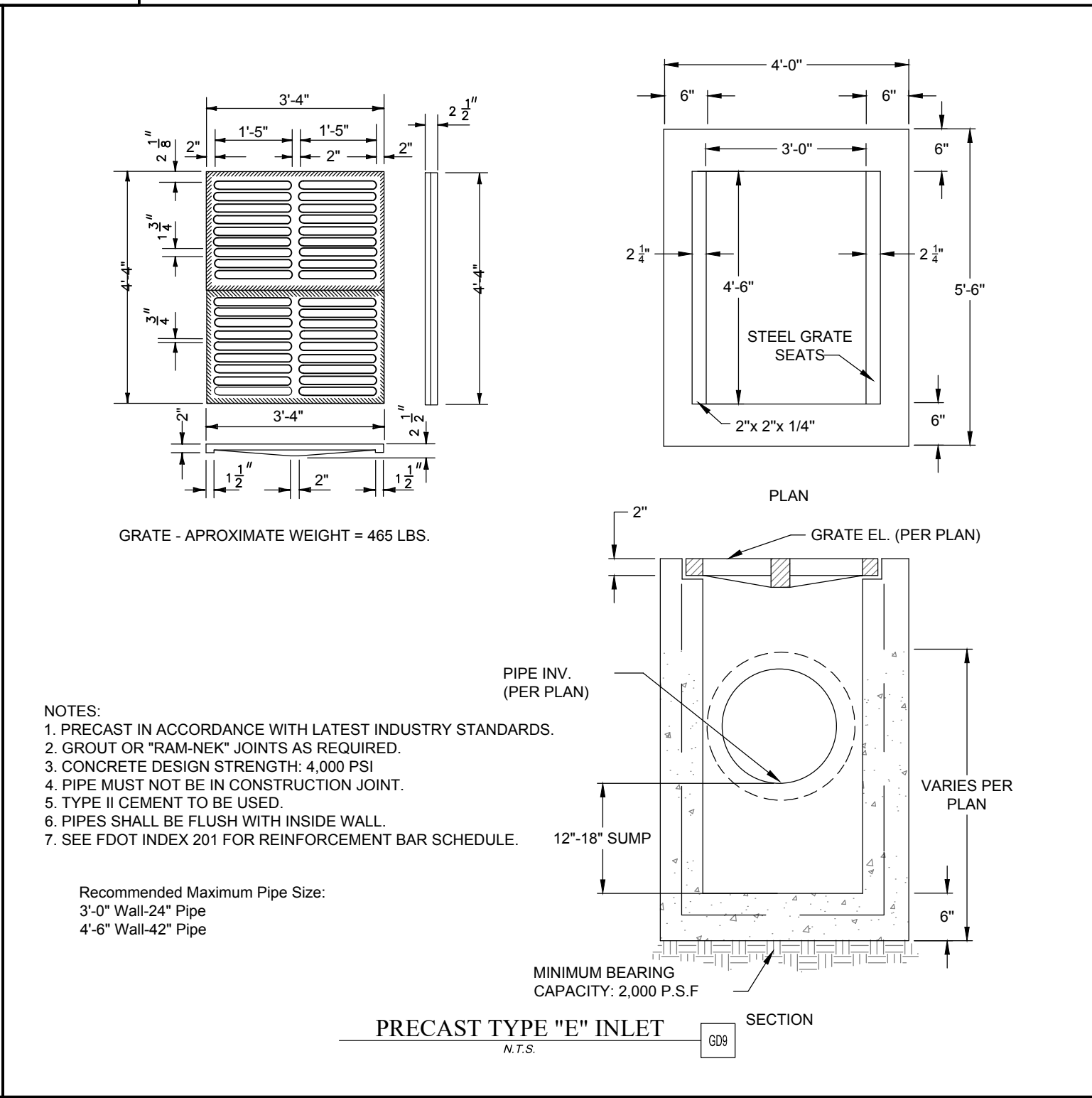
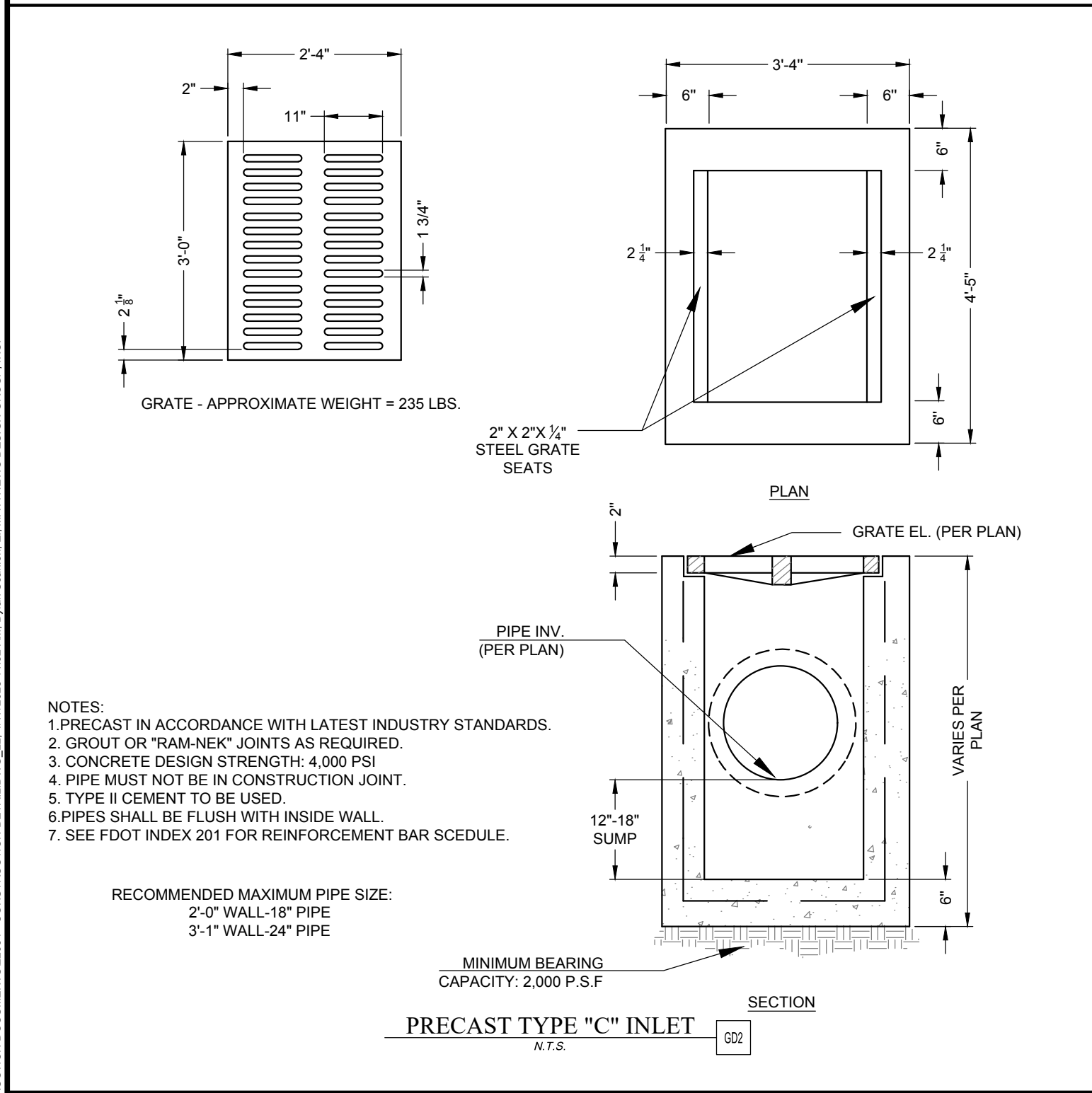
CAP#5535 FL #75155

GREEN CODE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAILS 2024 - MATTHEWS DESIGN GROUP, INC. 04/09/2024 09:20:00 2024 - GREEN CODE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAILS 2024 - MATTHEWS DESIGN GROUP, INC.



REVISIONS				DTS			
NO.	DATE	DESCRIPTION	REVISED PER CITY COMMENTS	DATE	BY	CHK	APP
1	04-02-25						

DESIGN BY	DVS	DATE	04-02-25
DRAWN BY	DVS	DATE	04-02-25
CHECKED BY	ARA	DATE	03-12-25
REGISTERED ENGINEER	DATE	22034	



CONSTRUCTION DETAILS

PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

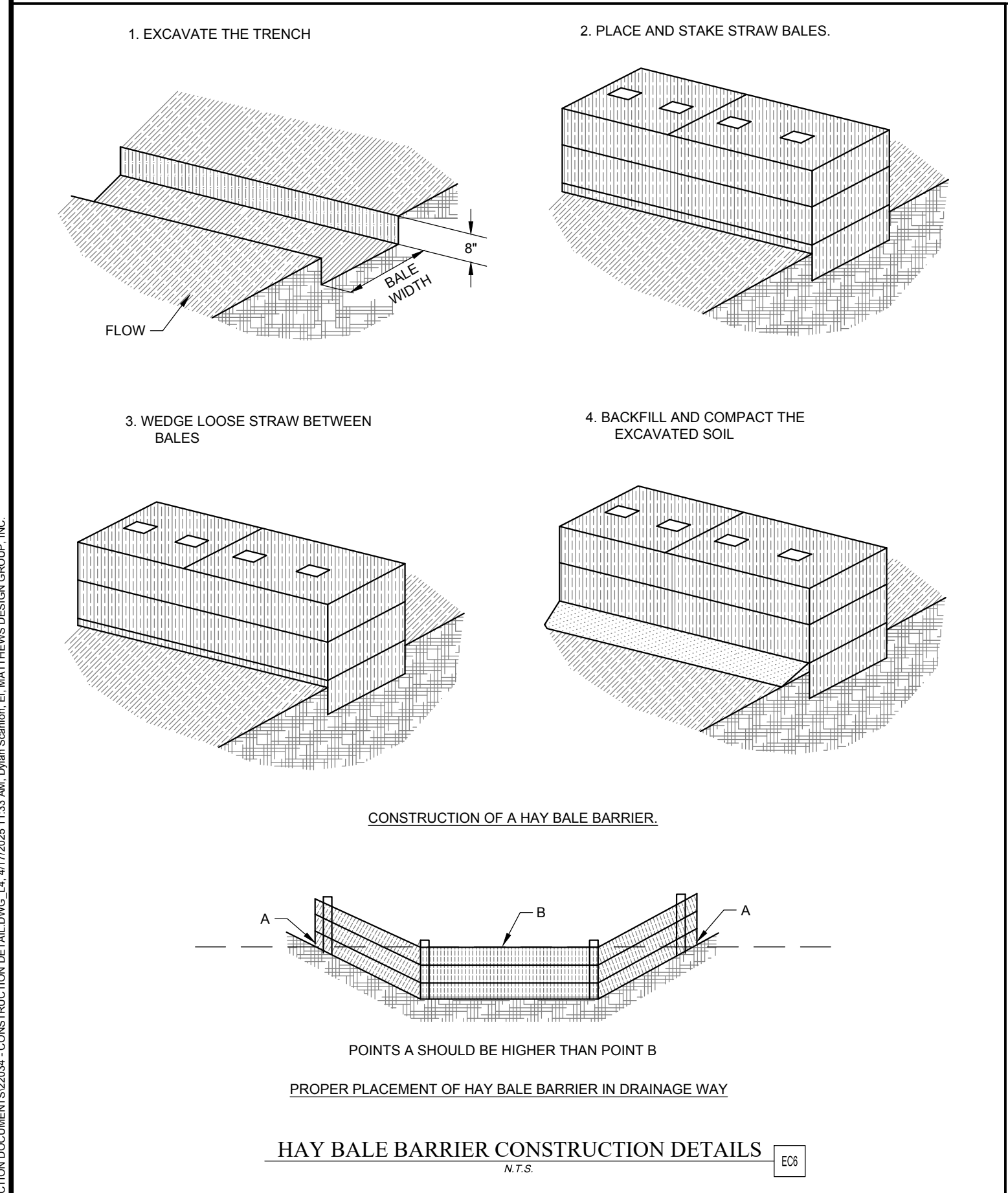
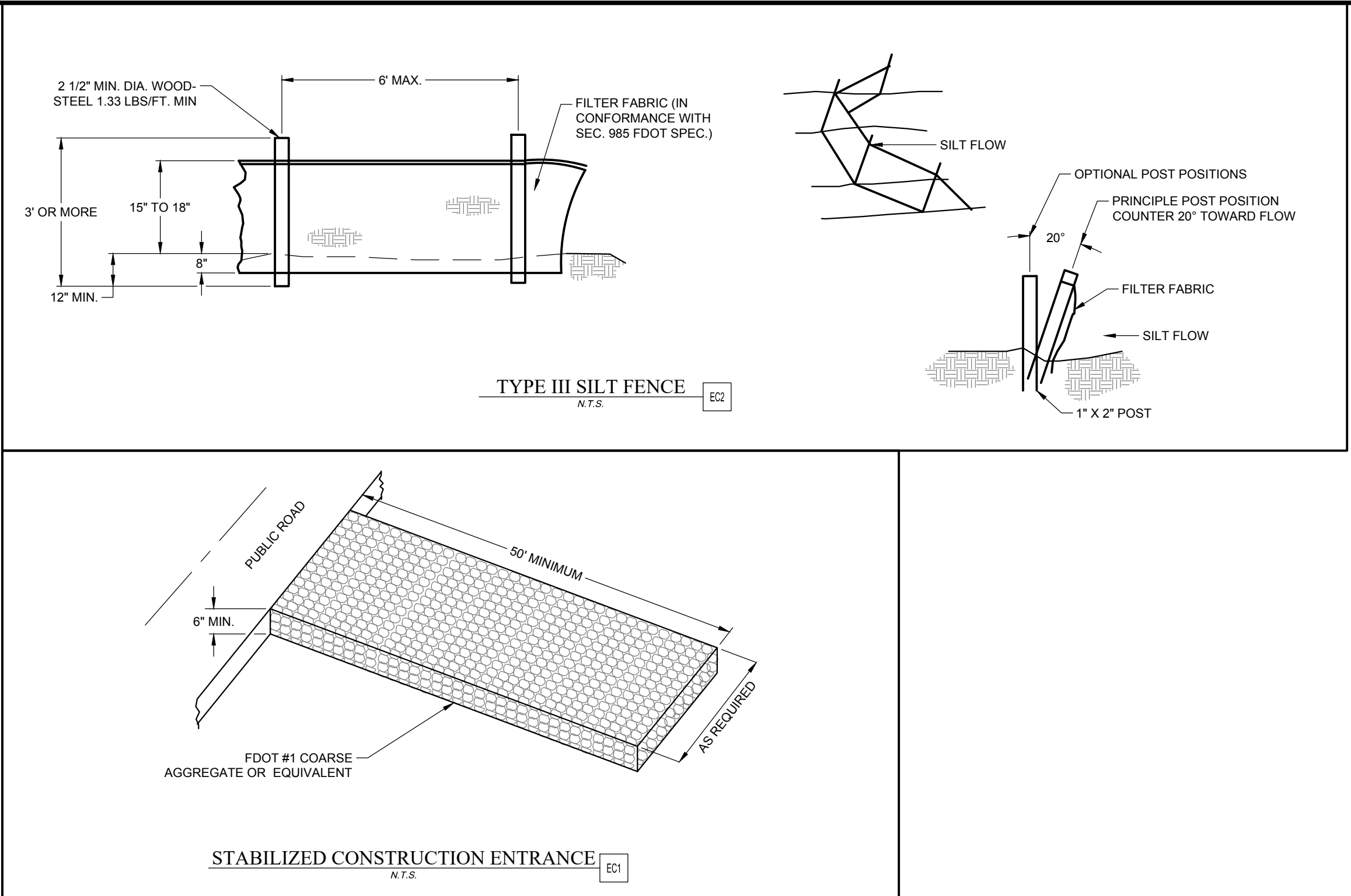
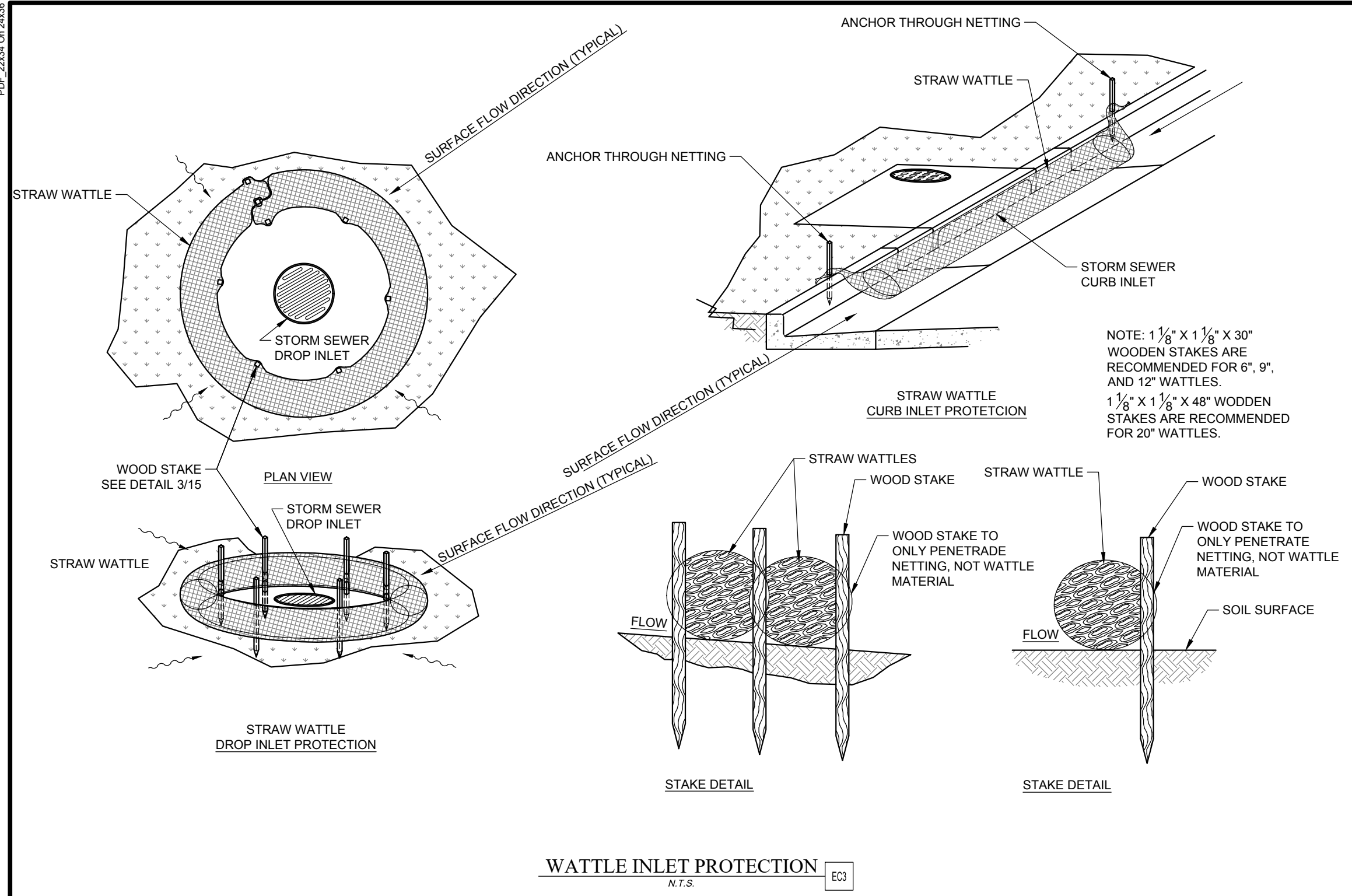
Matthews

P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGNC.COM

18

OF 25

© 2020 MATTHEWS DESIGN GROUP, INC. ALL RIGHTS RESERVED. GREEN COVE MULTI-FAMILY HOUSING CONSTRUCTION DOCUMENTS 2024 - CONSTRUCTION DETAIL DWG 14 - AUTOSAVE: EL MATTHEWS DESIGN GROUP, INC. 03/20/2024 11:52 AM. DWG: 14-01.DWG



CONSTRUCTION DETAILS

PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

REVISIONS

NO.	DATE	DESCRIPTION
1	04-02-25	REVISED PER CITY COMMENTS

DESIGN BY

DRAWN BY

CHECK BY

DATE

JOB NO.

DTS

DTS

ARA

03-12-25

22034

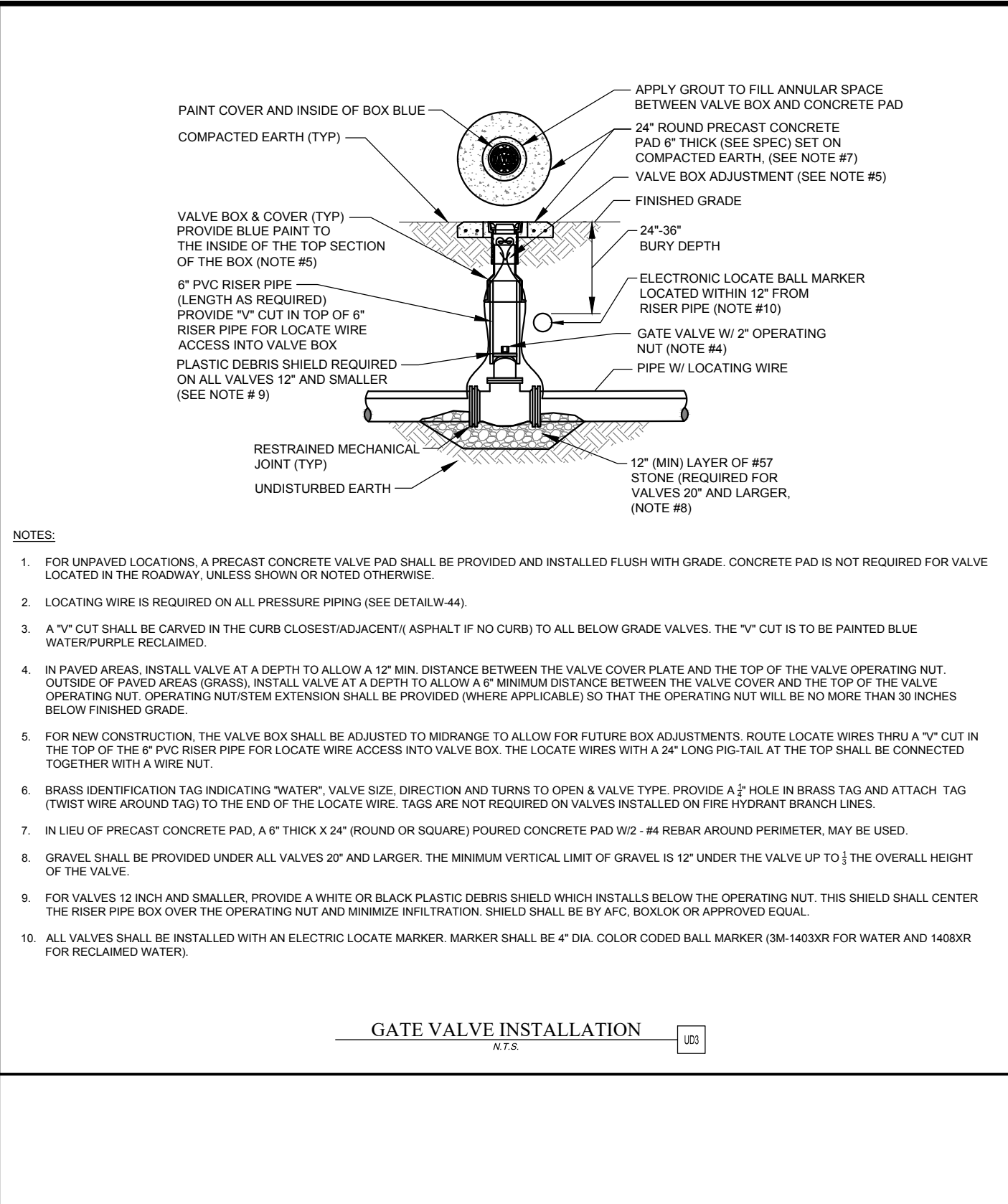
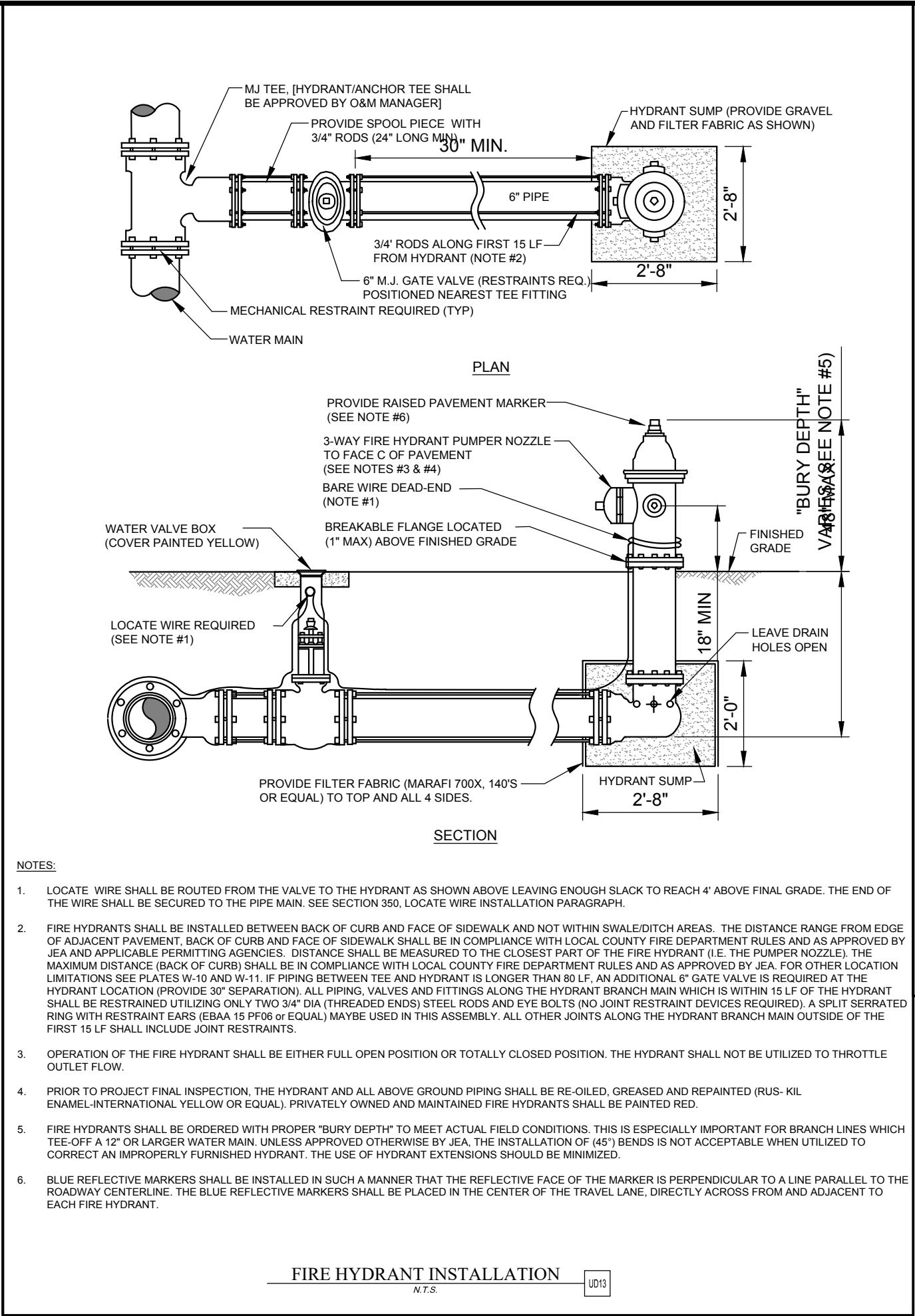
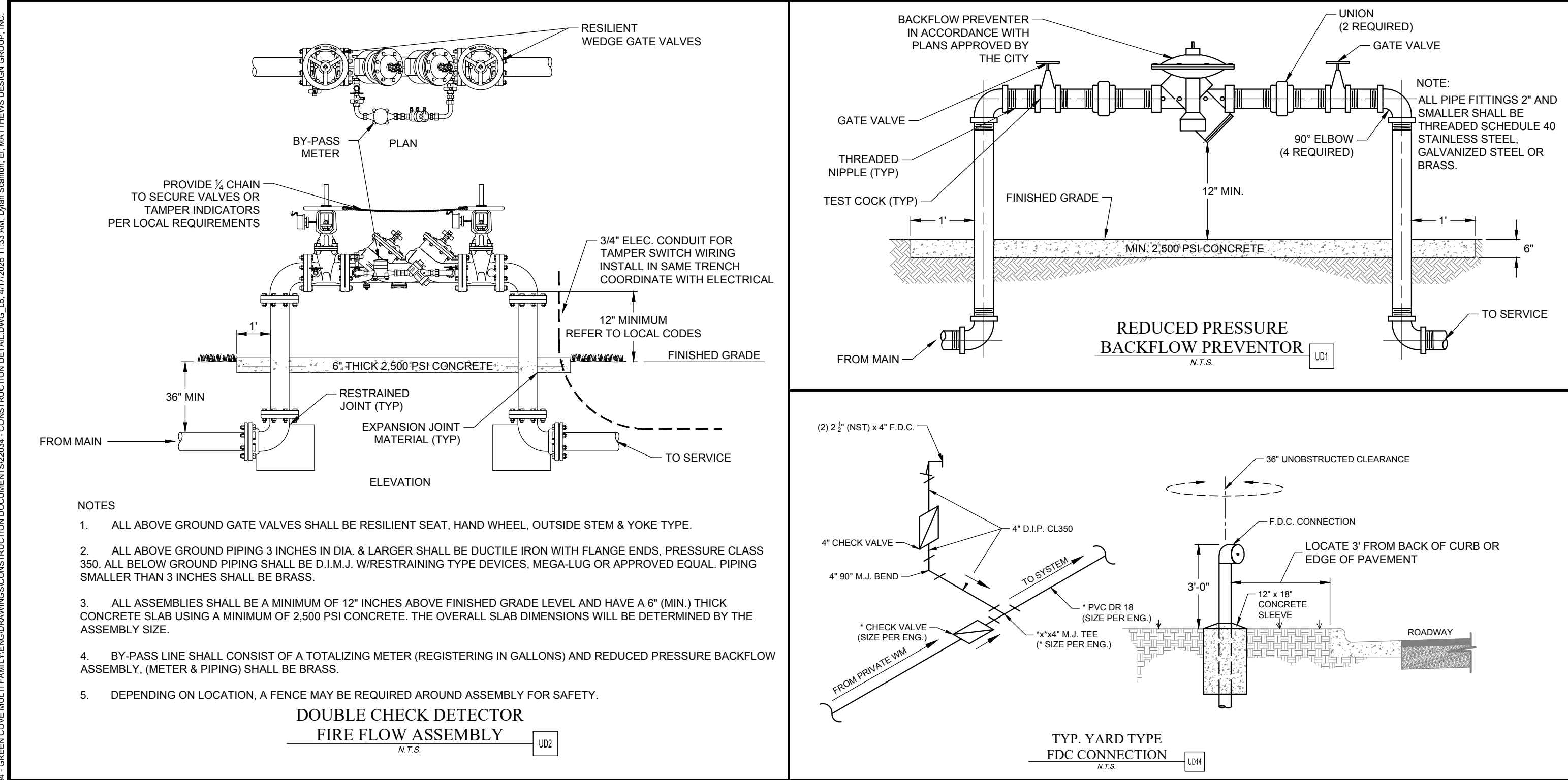
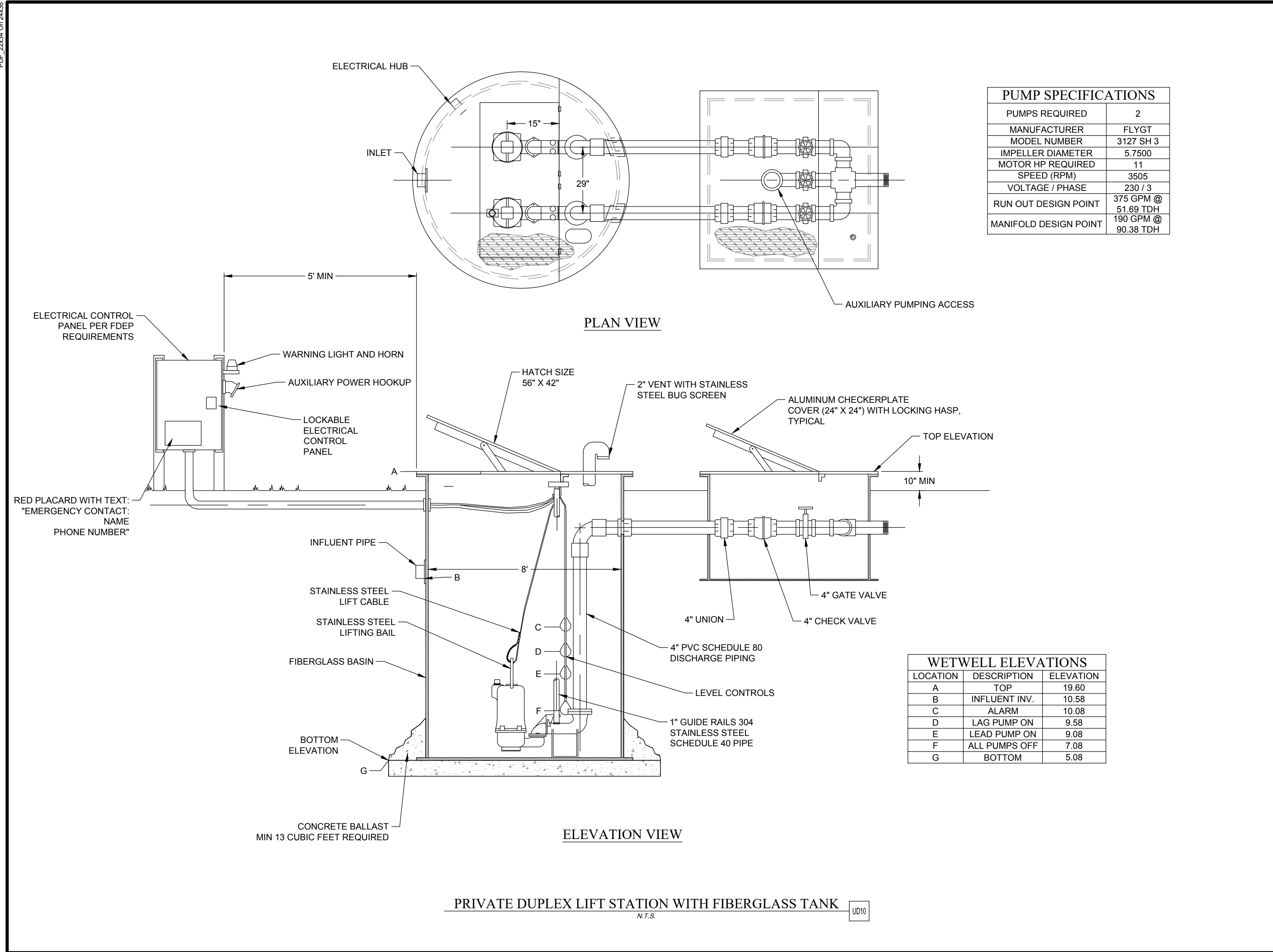
REGISTERED ENGINEER

EL MATTHEWS DESIGN GROUP, INC.

CA26553 FL #7515

THIS DRAWING IS THE PROPERTY OF MATTHEWS DESIGN GROUP, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM MATTHEWS DESIGN GROUP, INC. ANY VIOLATION OF THIS AGREEMENT SHALL BE SUBJECT TO LEGAL ACTION. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED VALID AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PC: 2024-02-26-05
GREEN COVE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENT SET 2024 - CONSTRUCTION DETAIL DWG: 12, AUGUST 11 12:34 AM, DWG: 504616, EL: MATTHEWS DESIGN GROUP, INC.
GREEN COVE MULTI-FAMILY RESIDENTIAL CONSTRUCTION DOCUMENT SET 2024 - CONSTRUCTION DETAIL DWG: 12, AUGUST 11 12:34 AM, DWG: 504616, EL: MATTHEWS DESIGN GROUP, INC.



CONSTRUCTION DETAILS

PRESERVE AT GREEN COVE SPRINGS
CITY OF GREEN COVE SPRINGS
PREPARED FOR
PC ACQUISITION LLC

Mathews | BCCM
P.O. BOX 3126, 7 WALDO STREET
ST. AUGUSTINE, FL 32084
PHONE: 904.826.1334 • FAX: 904.826.4547
INFO@MDGINC.COM

REVISIONS

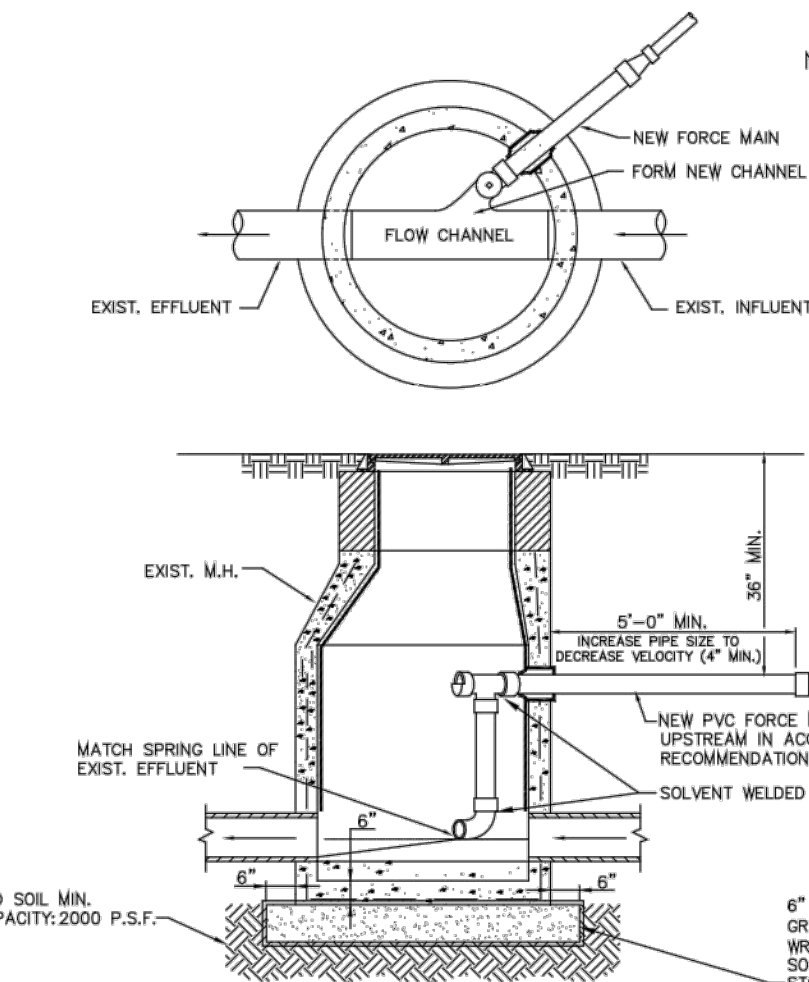
NO.	DATE	DESCRIPTION
1	04-02-25	REVISED PER CITY COMMENTS

DESIGN BY: DTS
DRAWN BY: DTS
CHECK BY: AFA
DATE: 03-12-25
JOB NO.: 22034

REGISTERED ENGINEER
E. E. CAPRESS, P.E.
CAPRESS, FL #75155

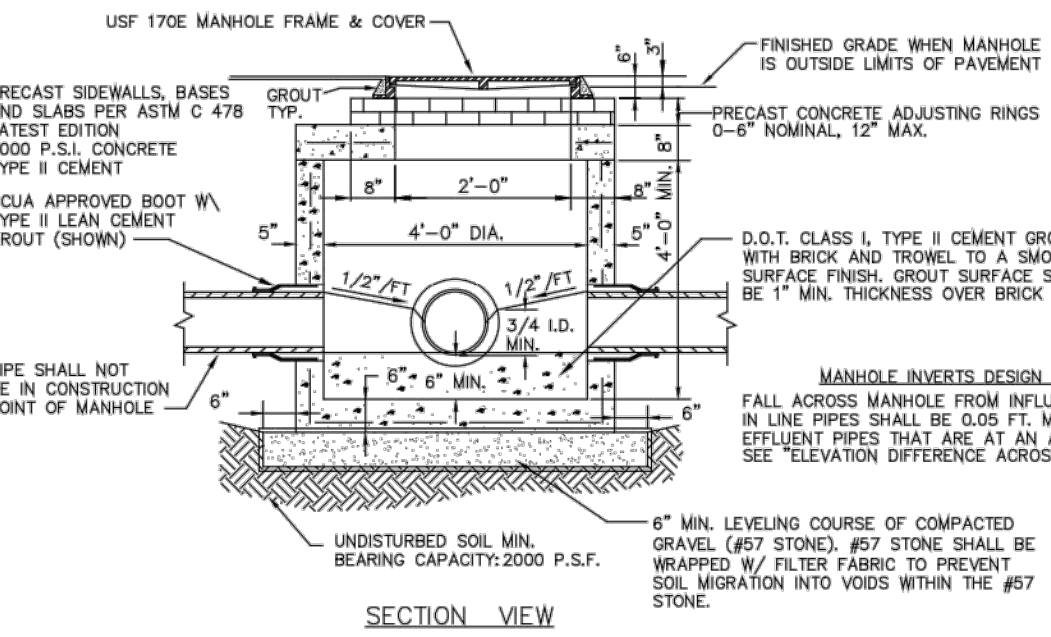
SHEET NO.: 21
OF 25

M:\CAD Files\Green Cove Springs\8005191\Standard Utility Details\11-01-2017\SEWSTANDDETAILS.dwg, 11/2017 12:00:13 PM

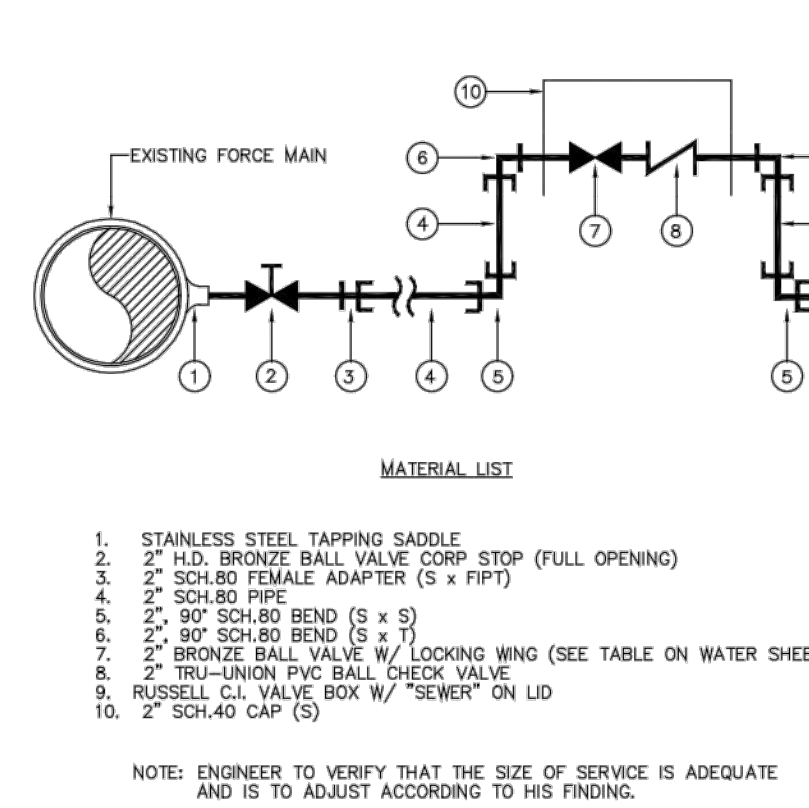


TYP. FORCE MAIN CONNECTION TO MANHOLE

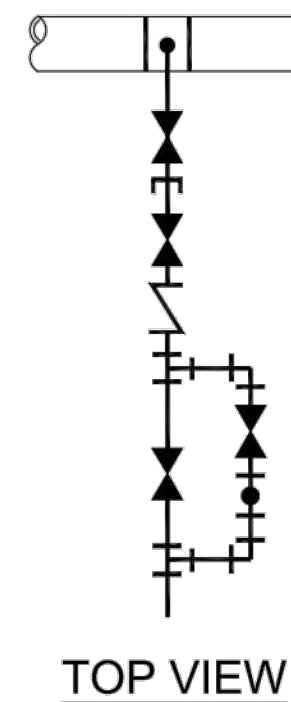
- NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY STANDARD PRECAST CO. (AGRI SURE CRP) OR APPROVED EQUAL.
2. IF CONNECTION IS BEING MADE TO AN EXISTING MANHOLE, THAT MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY), SHALL BE LINED WITH "SPRETRASHED" OR APPROVED EQUAL.
3. SIZE OF DROP PIPE CONNECTION TO MANHOLE SHALL BE DESIGNED BY THE PROJECT ENGINEER. MINIMUM SIZE SHALL BE 4" CONNECTION AND DROP PIPE SHALL BE SIZED TO REDUCE THE VELOCITY AND PREVENT "SPASHOVER" WITHIN THE MANHOLE. 5'-0" MINIMUM DISTANCE FROM MANHOLE TO REDUCER MAY BE INCREASED TO ASSIST IN THIS VELOCITY REDUCTION.



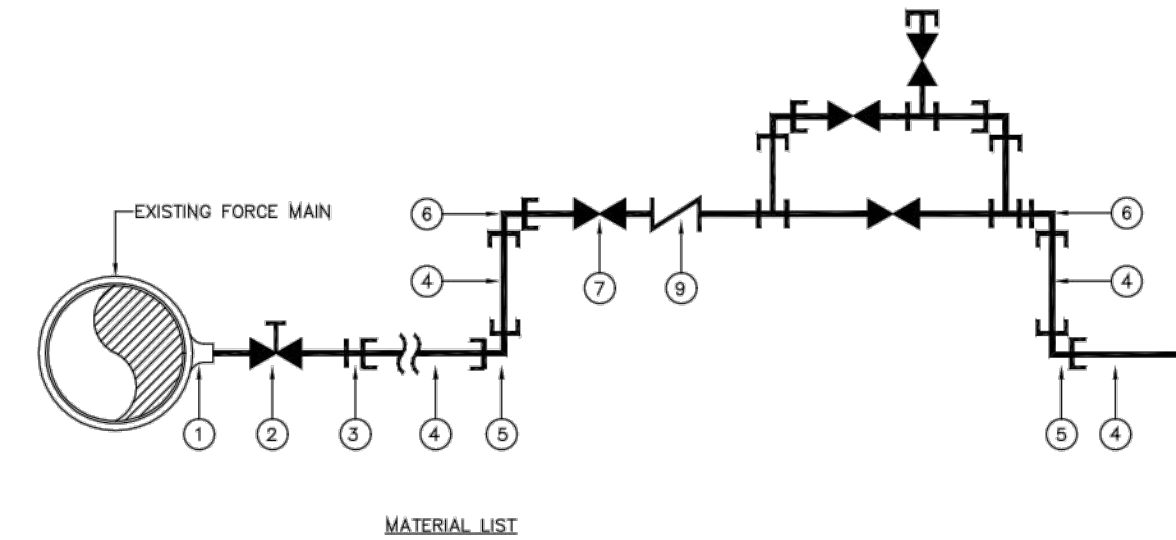
SHALLOW SANITARY SEWER MANHOLE



2" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION DETAIL FOR MEDIUM TO HIGH PRESSURE CONNECTION SYSTEMS

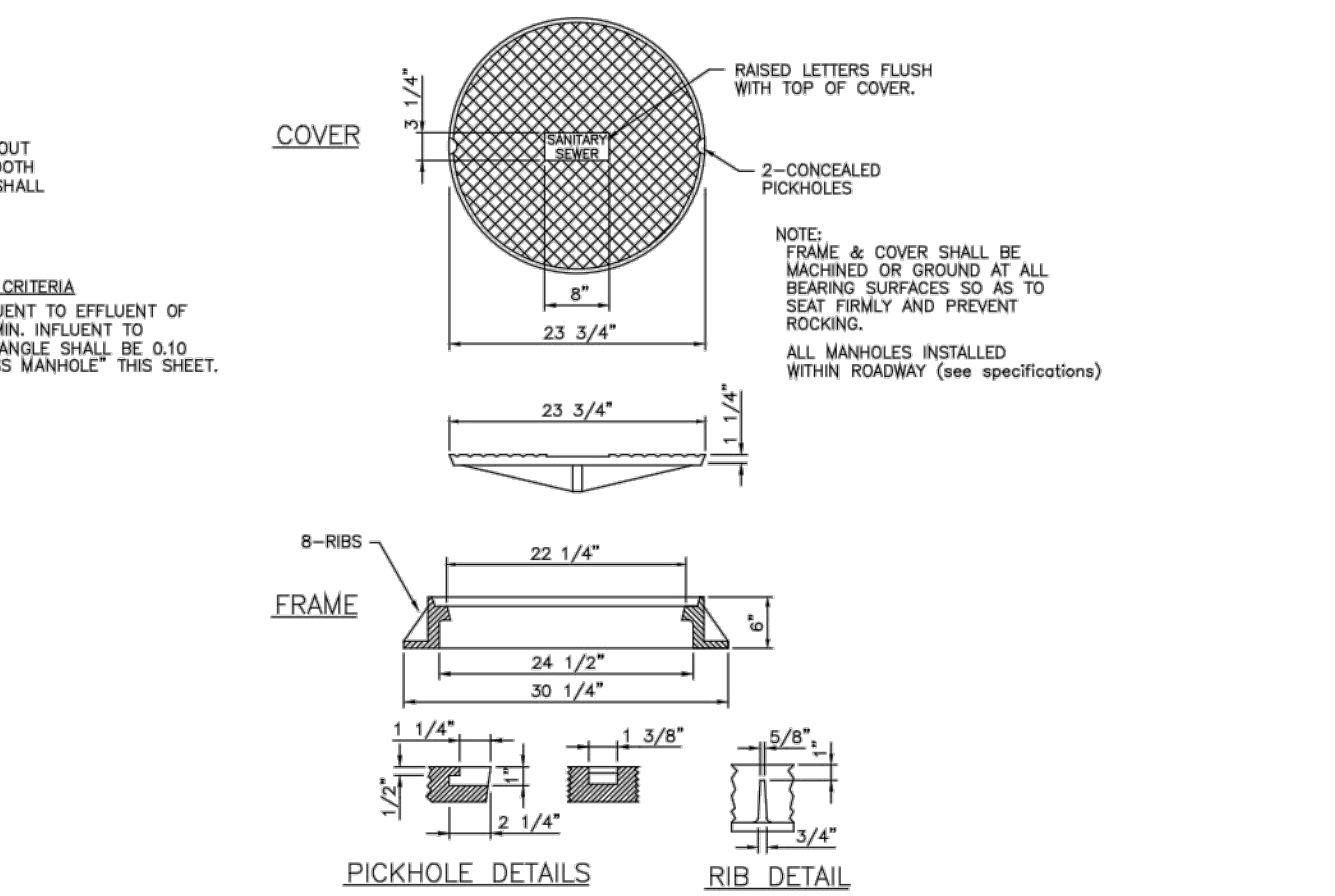
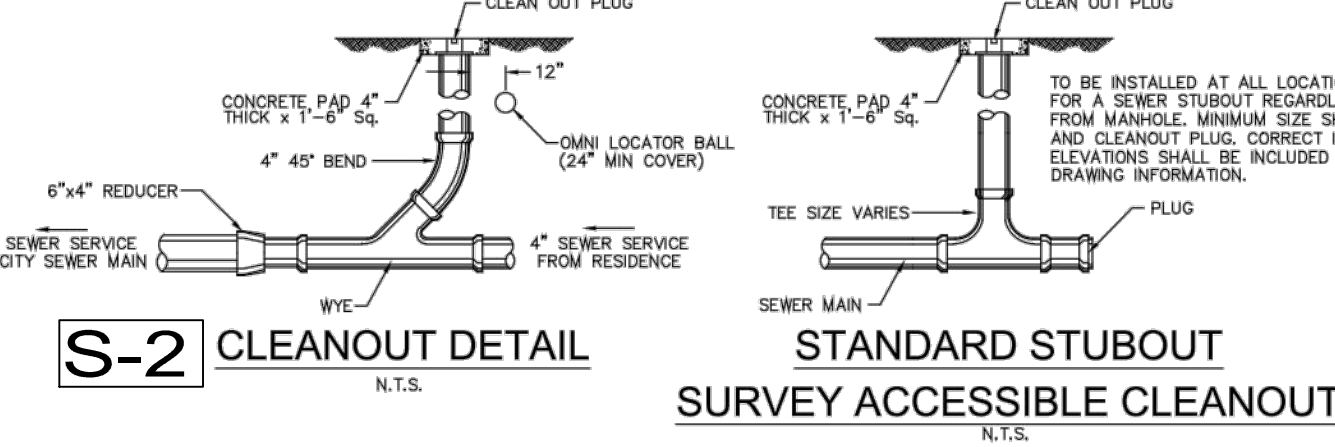


TOP VIEW



" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE

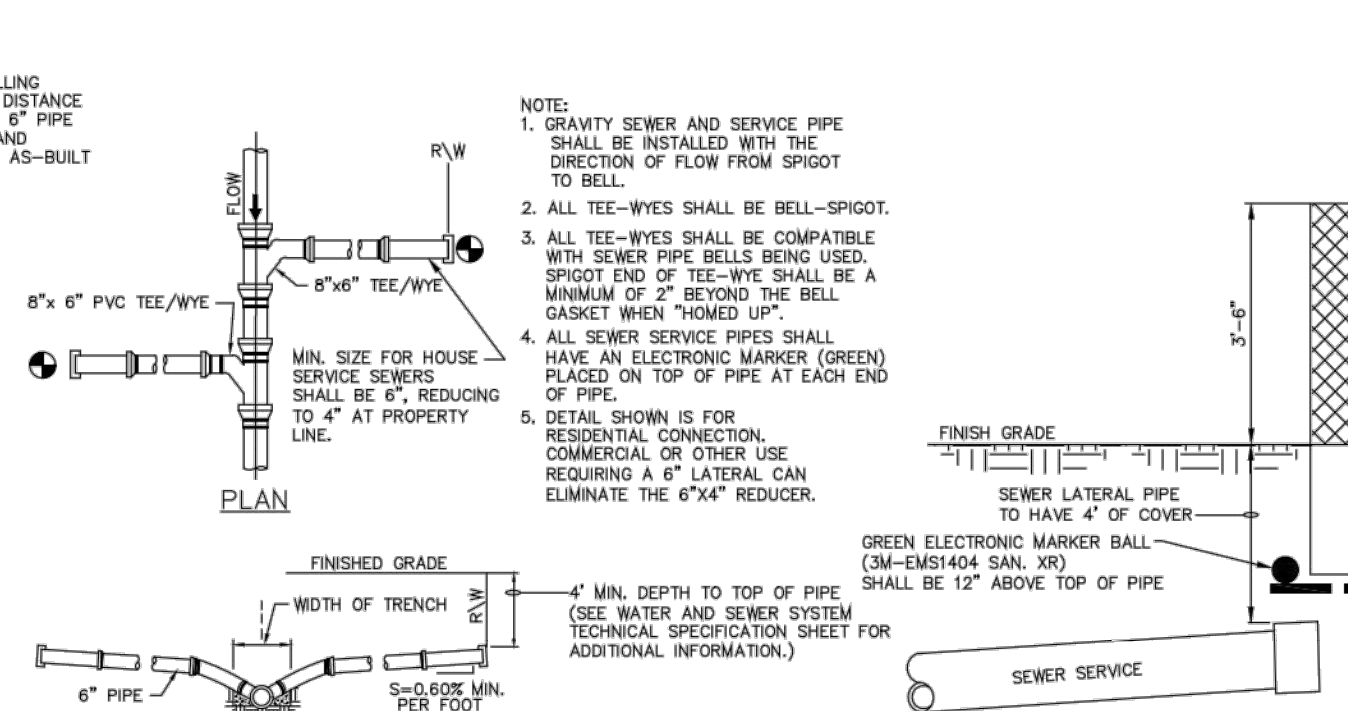
S-1 SANITARY SEWER MANHOLE



SANITARY SEWER MANHOLE FRAME & COVER

CONCRETE CAP FOR SEWER PIPES

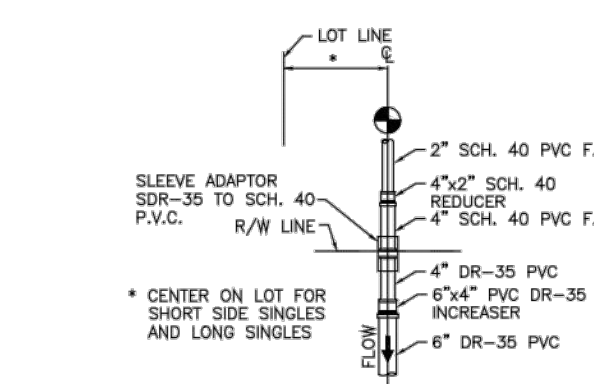
STORM CONFLICT MANHOLE



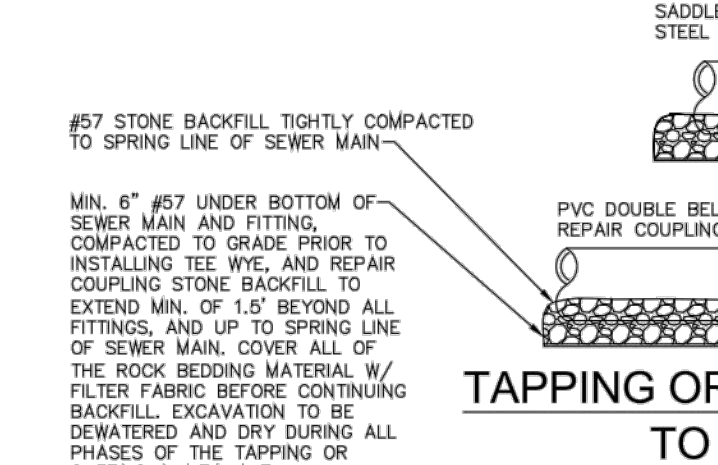
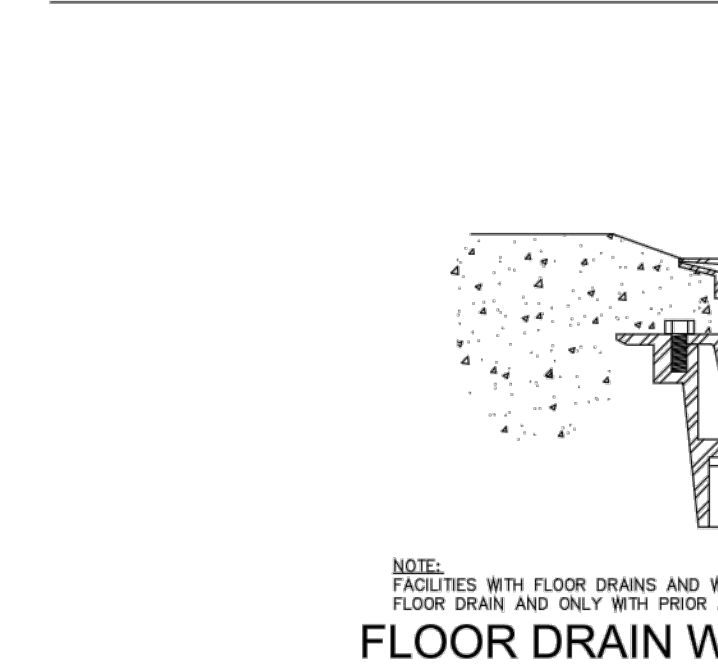
SEWER SERVICE MARKER POST



STANDARD SINGLE SEWER SERVICE LATERALS

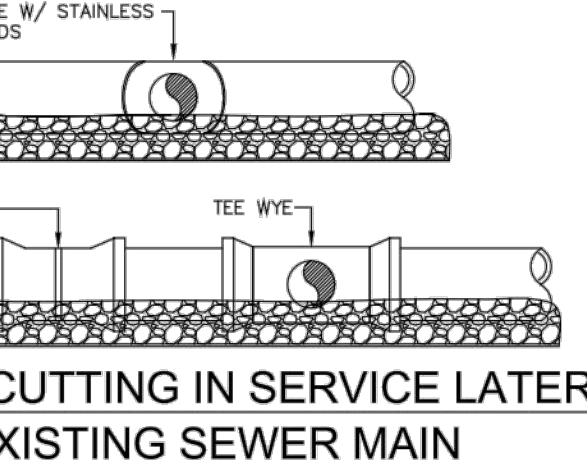
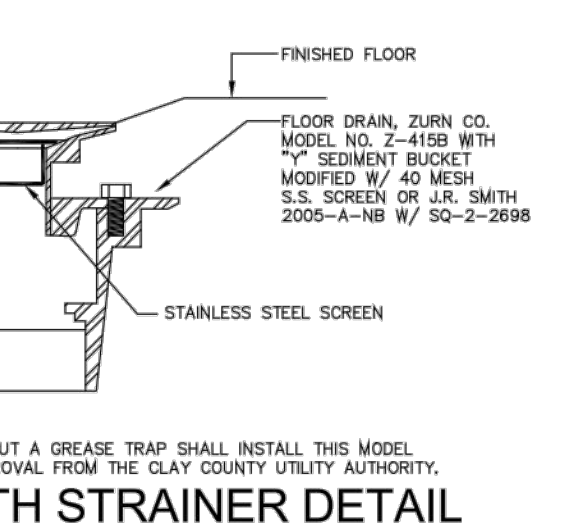


GRINDER PUMP STATION FORCE MAIN CONNECTION TO SINGLE GRAVITY SERVICE

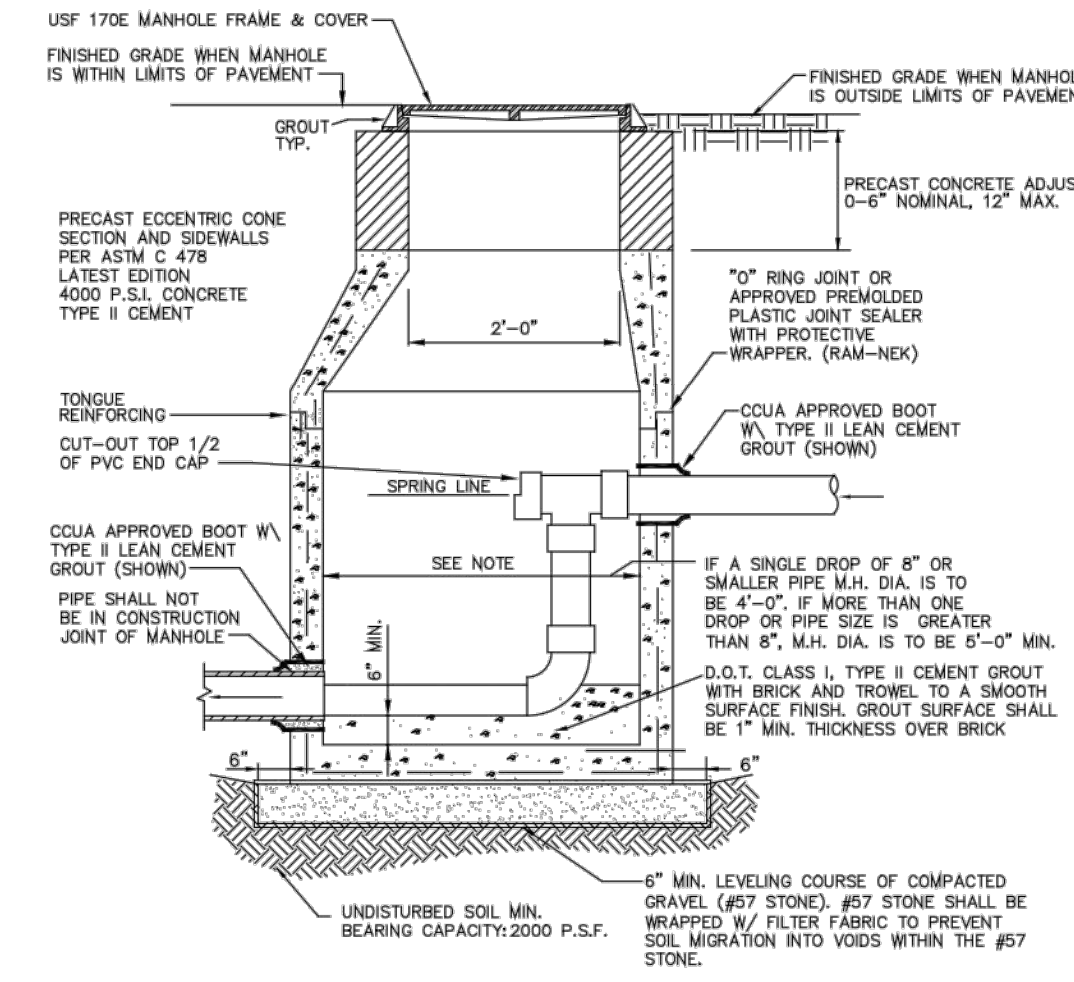


FLOOR DRAIN WITH STRAINER DETAIL

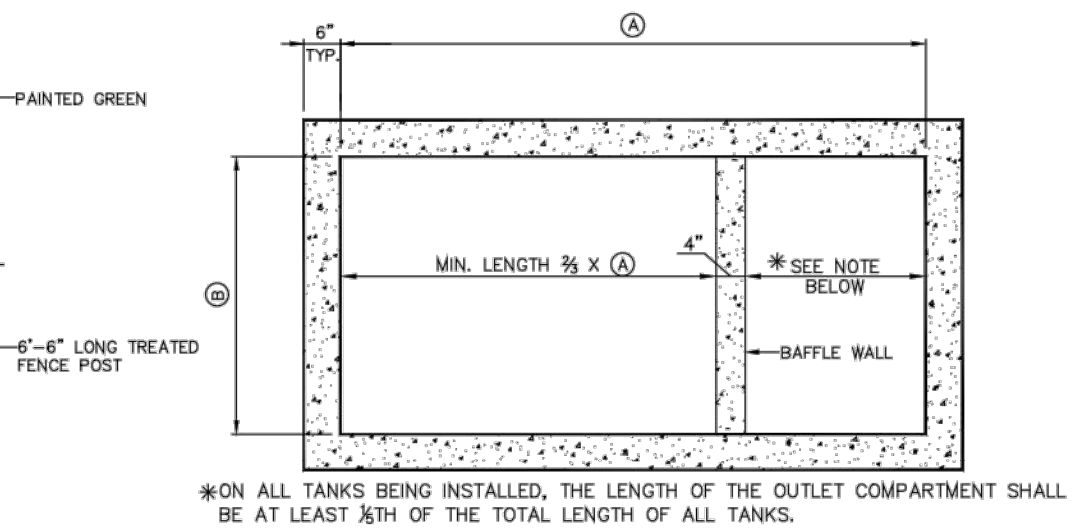
ELEVATION DIFFERENCE ACROSS MANHOLE



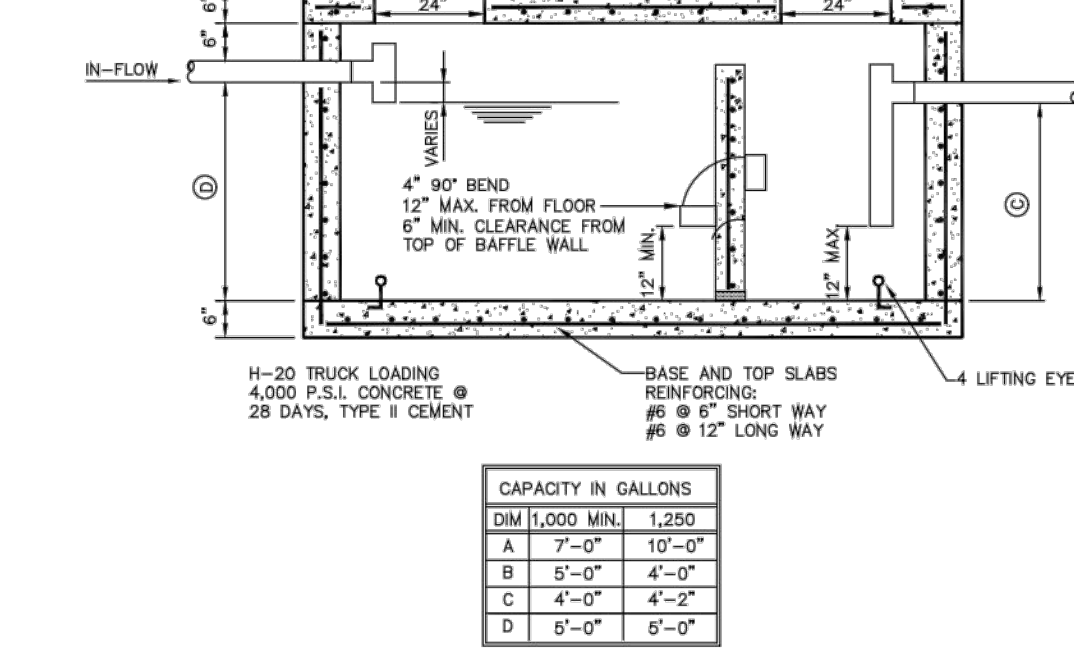
TAPPING OR CUTTING IN SERVICE LATERAL TO EXISTING SEWER MAIN



TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE

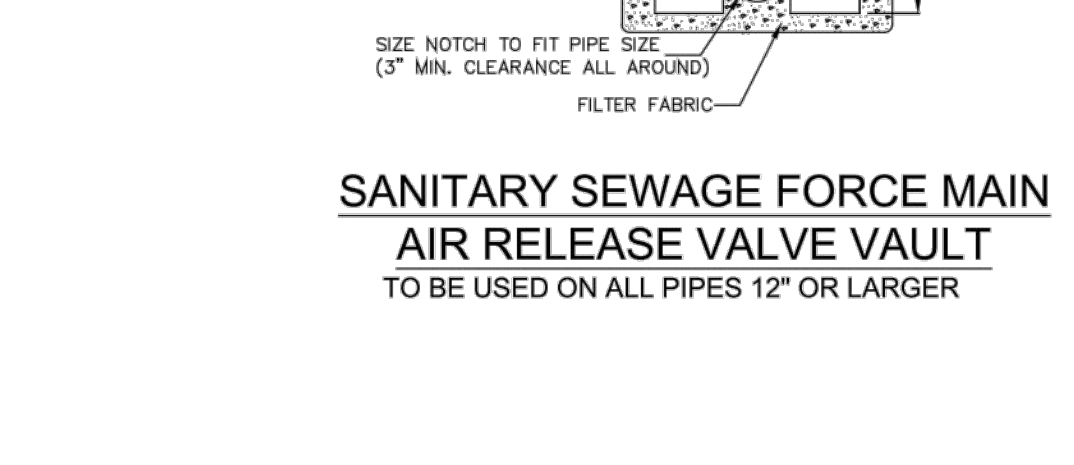
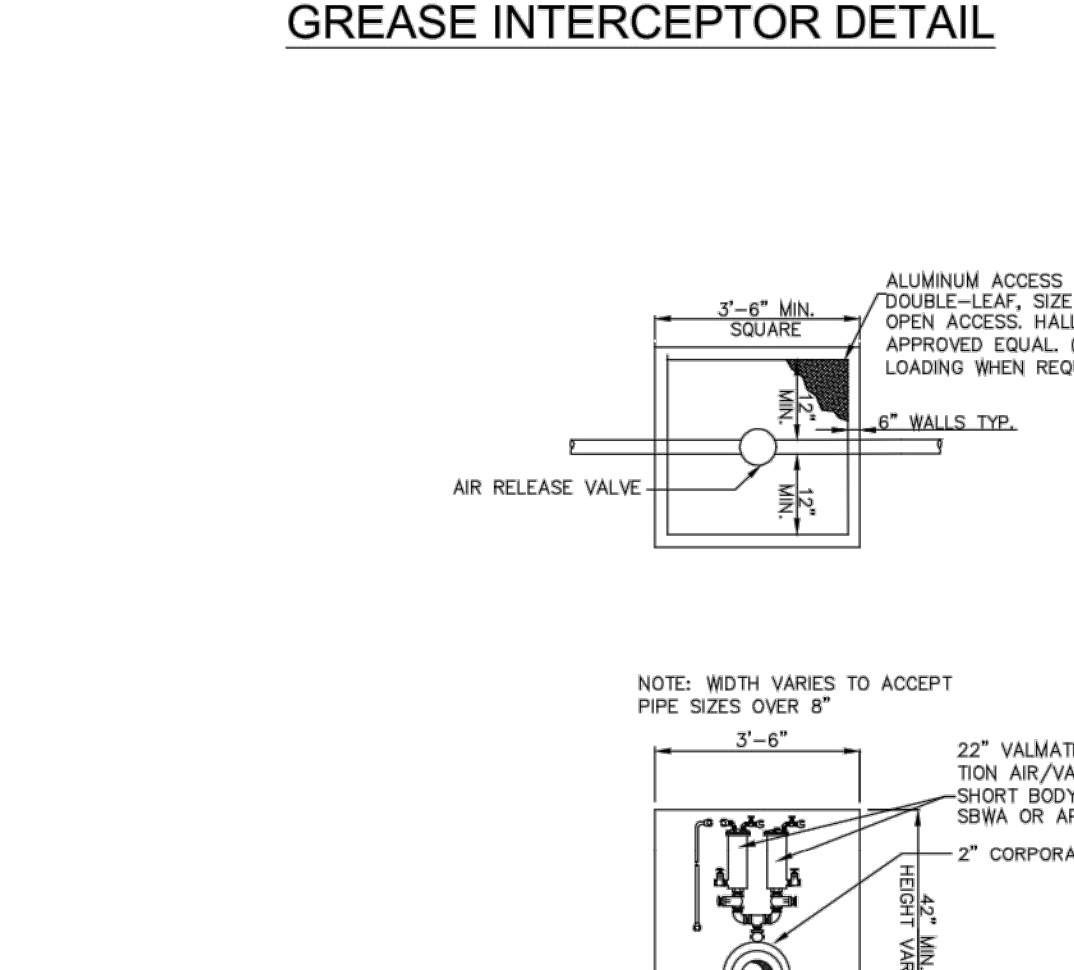


SADDLE MANHOLE DETAIL SECTION

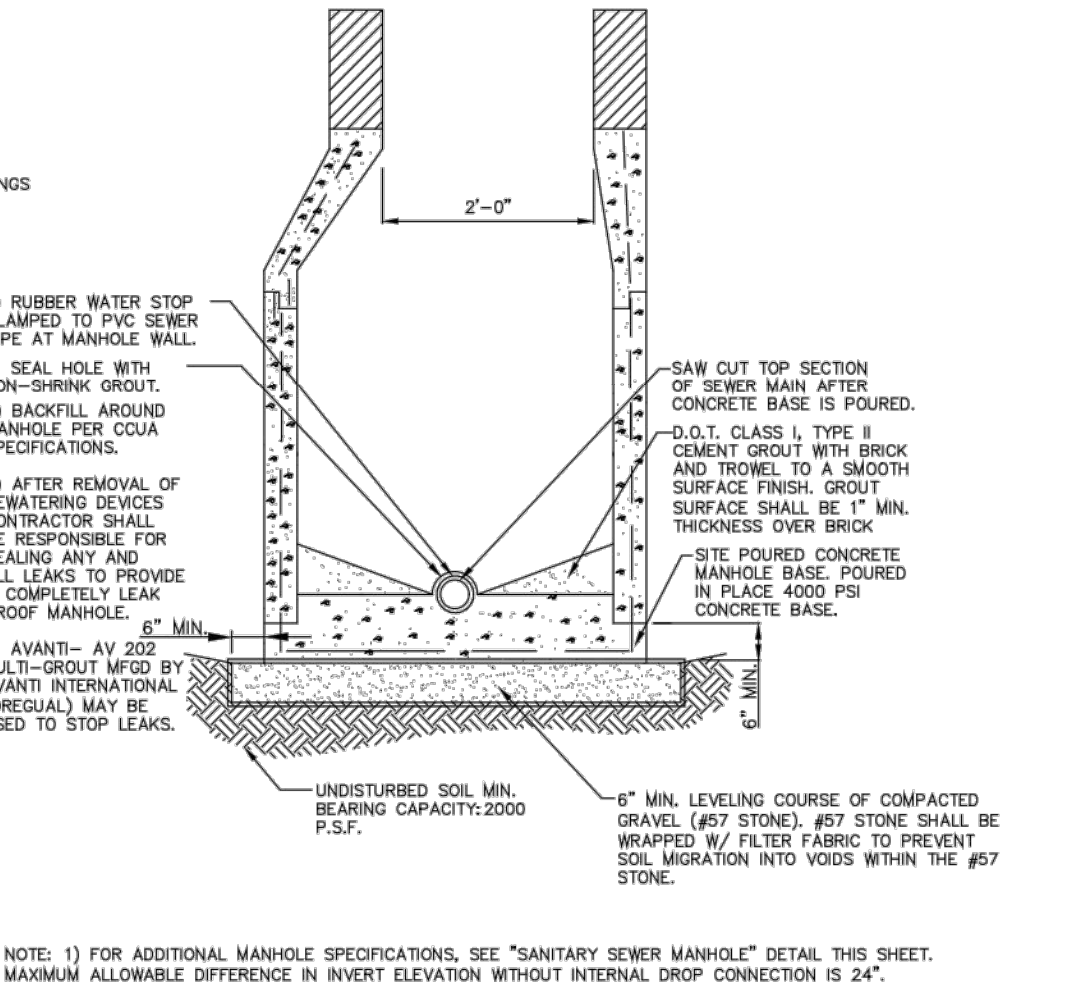


PROCEDURES FOR CONNECTING TO A GRAVITY STUB

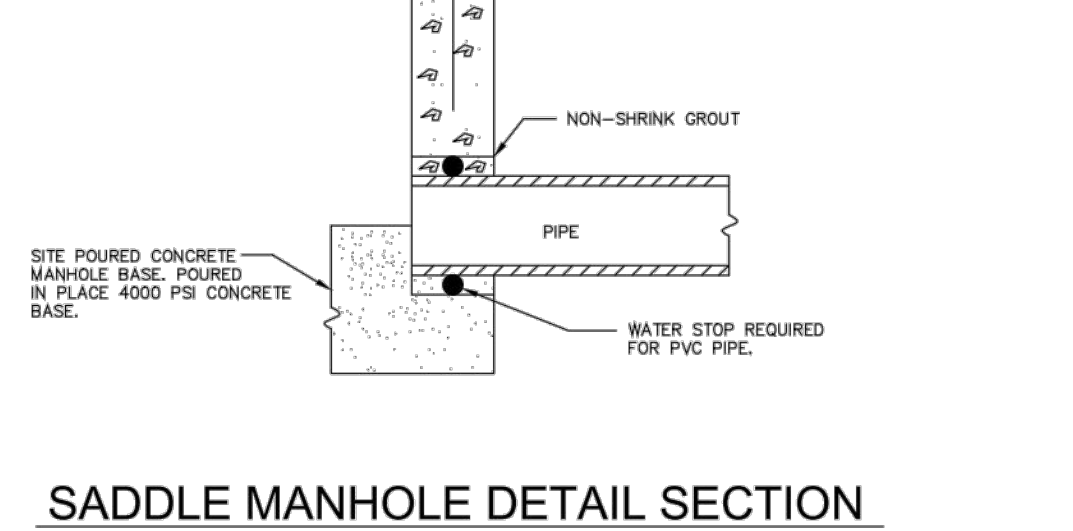
GREASE INTERCEPTOR DETAIL



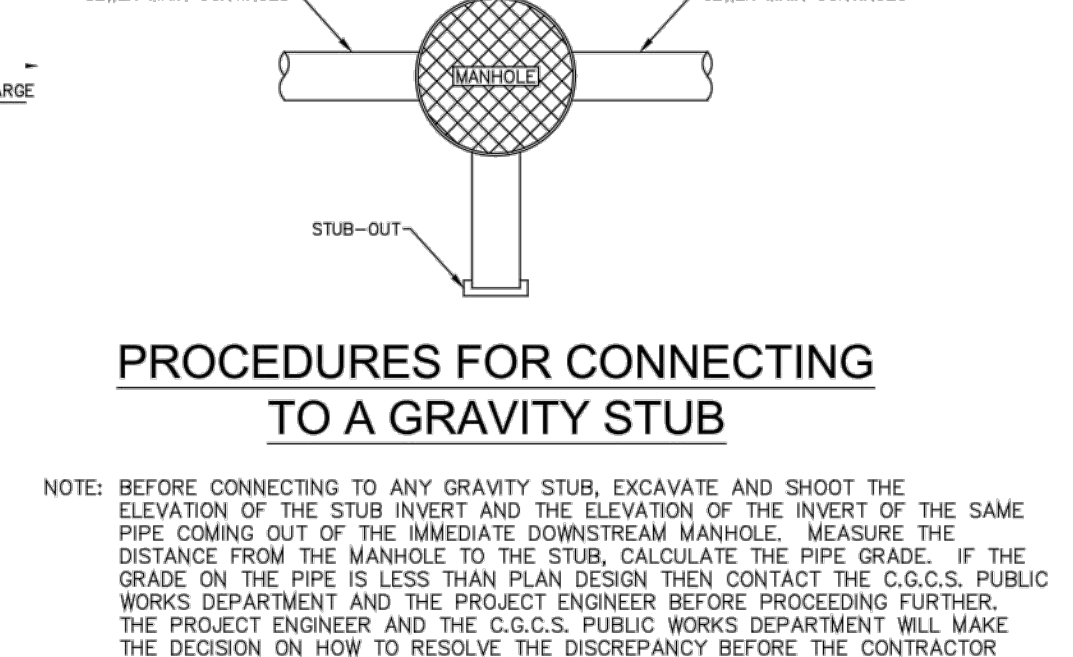
SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT



SADDLE MANHOLE DETAIL

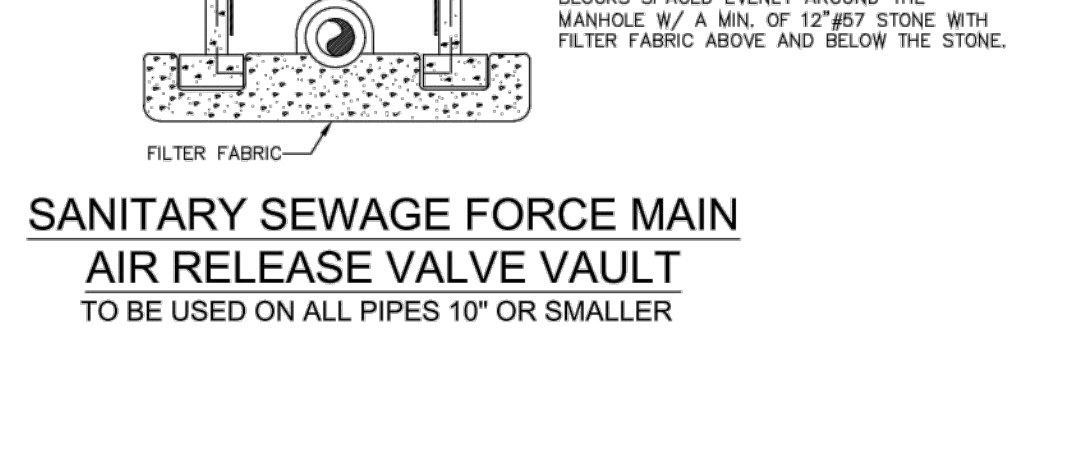
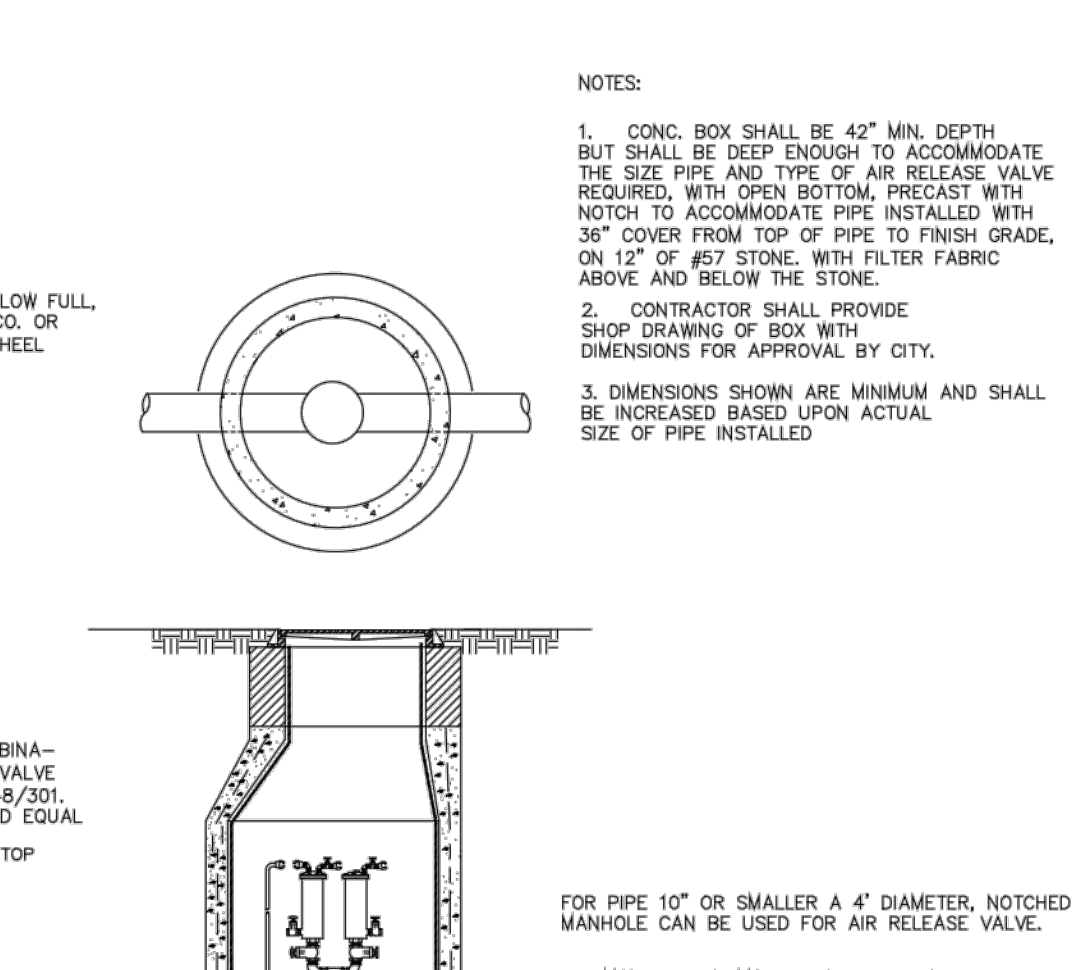


PROCEDURES FOR CONNECTING TO A GRAVITY STUB



SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT

TO BE USED ON ALL PIPES 12" OR LARGER



SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT

TO BE USED ON ALL PIPES 10" OR SMALLER

PROJECT: STANDARD SEWER SYSTEM DETAILS

CITY OF GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043

ACAD FILE NAME
SEWSTAND.DWG
SHEET NO.

DESIGN: DRWN: CHKD: APVR: DATE: 1 FEB 2016

NO. DATE BY

GENERAL UPDATE

REVISION DESCRIPTION

1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY STANDARD PRECAST CO. (AGRI SURE CRP) OR APPROVED EQUAL.

USF 170E MANHOLE FRAME & COVER

FINISHED GRADE WHEN MANHOLE IS WITHIN LIMITS OF PAVEMENT

PRECAST ECCENTRIC CONE SECTION AND SIDEWALLS PER ASTM C-478 LATEST EDITION 4000 P.S.I. CONCRETE TYPE II CEMENT

TONGUE REINFORCING

KOR-N-SEAL BOOT W/A TYPE II LEAN CEMENT GROUT (SHOWN)

PIPE SHALL NOT BE IN CONSTRUCTION JOINT OF MANHOLE

GROUT TYPE II

6"

2'-0"

4'-0" DIA.

1/2" FT

3/4" I.D.

6" MIN

6"

6"

FINISHED GRADE WHEN MANHOLE IS OUTSIDE LIMITS OF PAVEMENT

VARIABLE BRICK OR PRECAST CONC. ADJUSTMENT RINGS, 0-6" NOMINAL, 12" MAX.

1'-0" MIN.
3'-0" MAX.

"O" RING JOINT OR APPROVED PREMOLDED PLASTIC JOINT SEALER WITH PROTECTIVE WRAPPER (RAM-NEK)

1-2,3,4 FT. LENGTHS AS REQ'D

D.O.T. CLASS I, TYPE II CEMENT GROUT WITH BRICK OR RUBBLE AND TRIDEL TO A SMOOTH SURFACE FINISH GROUT SURFACE SHALL BE 1" MIN THICKNESS OVER BRICK OR RUBBLE.

6" MIN. LEVELLING COURSE OF COMPACTED GRAVEL (#57 STONE) IN AREAS WHERE MANHOLE LOCATIONS MAY IMPACT PAVING.

#57 STONE SHALL BE COVERED IN A VEGETATION AS TO PREVENT SOIL MIGRATION INTO VEDDS WITHIN THE #57 STONE.

UNDISTURBED SOIL MIN. BEARING CAPACITY: 2000 P.S.F.

SECTION VIEW

USF 170E MANHOLE FRAME & COVER

PRECAST SIDEWALLS, BASES & SLABS PER ASTM C 478 TYP.

LATEST EDITION 4000 P.S.I. CONCRETE TYPE II CEMENT

KOR-N-SEAL BOOT W/ TYPE II LEAN CEMENT GROUT (SHOWN)

PIPE SHALL NOT BE IN CONSTRUCTION JOINT OF MANHOLE

FINISHED GRADE WHEN MANHOLE IS OUTSIDE LIMITS OF PAVEMENT

VARIABLE BRICK OR PRECAST CONCRETE ADJUSTMENT RINGS 0-6" NOMINAL, 12" MAX

D.I.T. CLASS I, TYPE II CEMENT GROUT WITH BRICK OR RUBBLE AND TROWEL SMOOTH SURFACE FINISH. GROUT SURF SHALL BE 1" MIN. THICKNESS OVER BRICK OR RUBBLE.

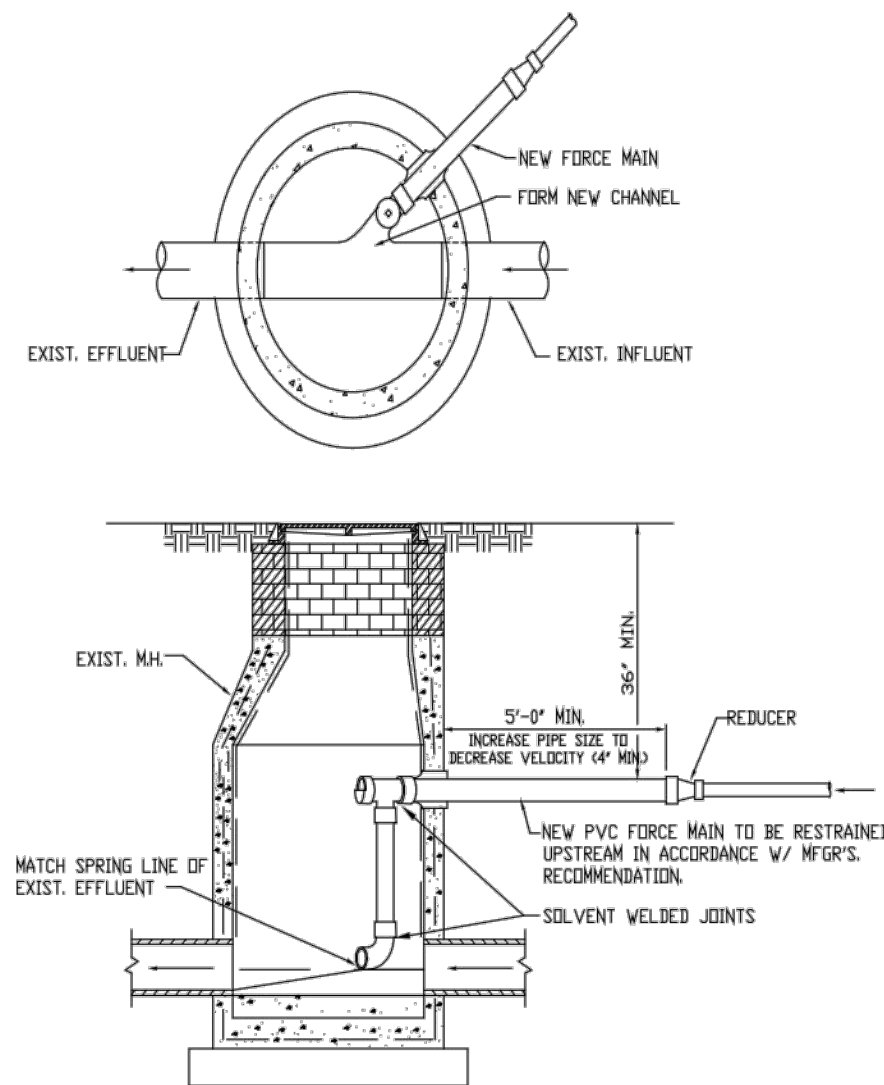
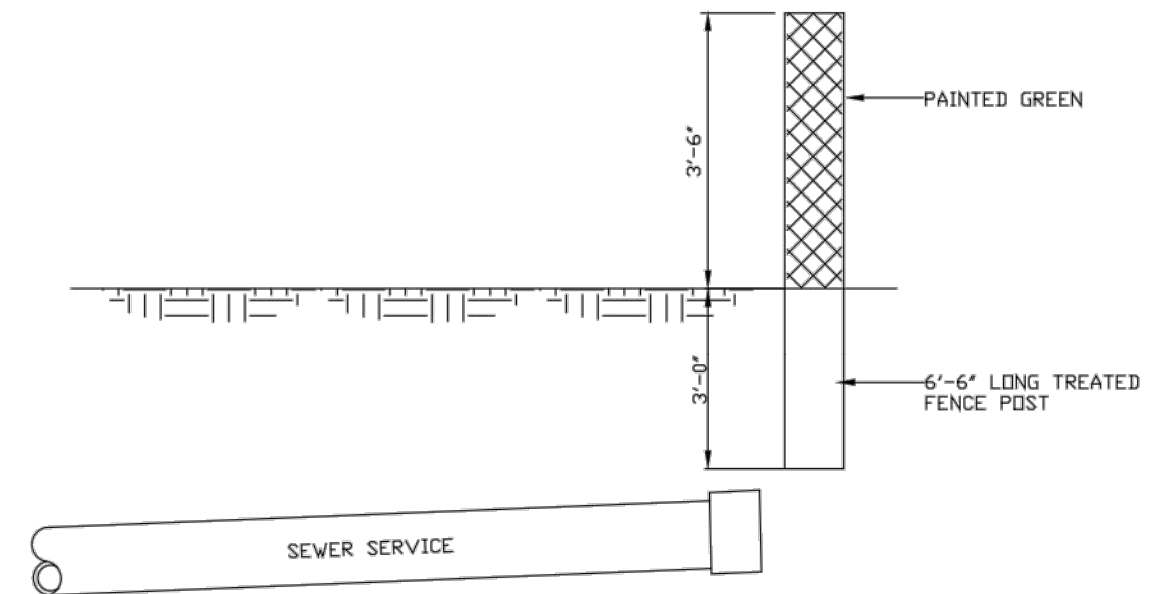
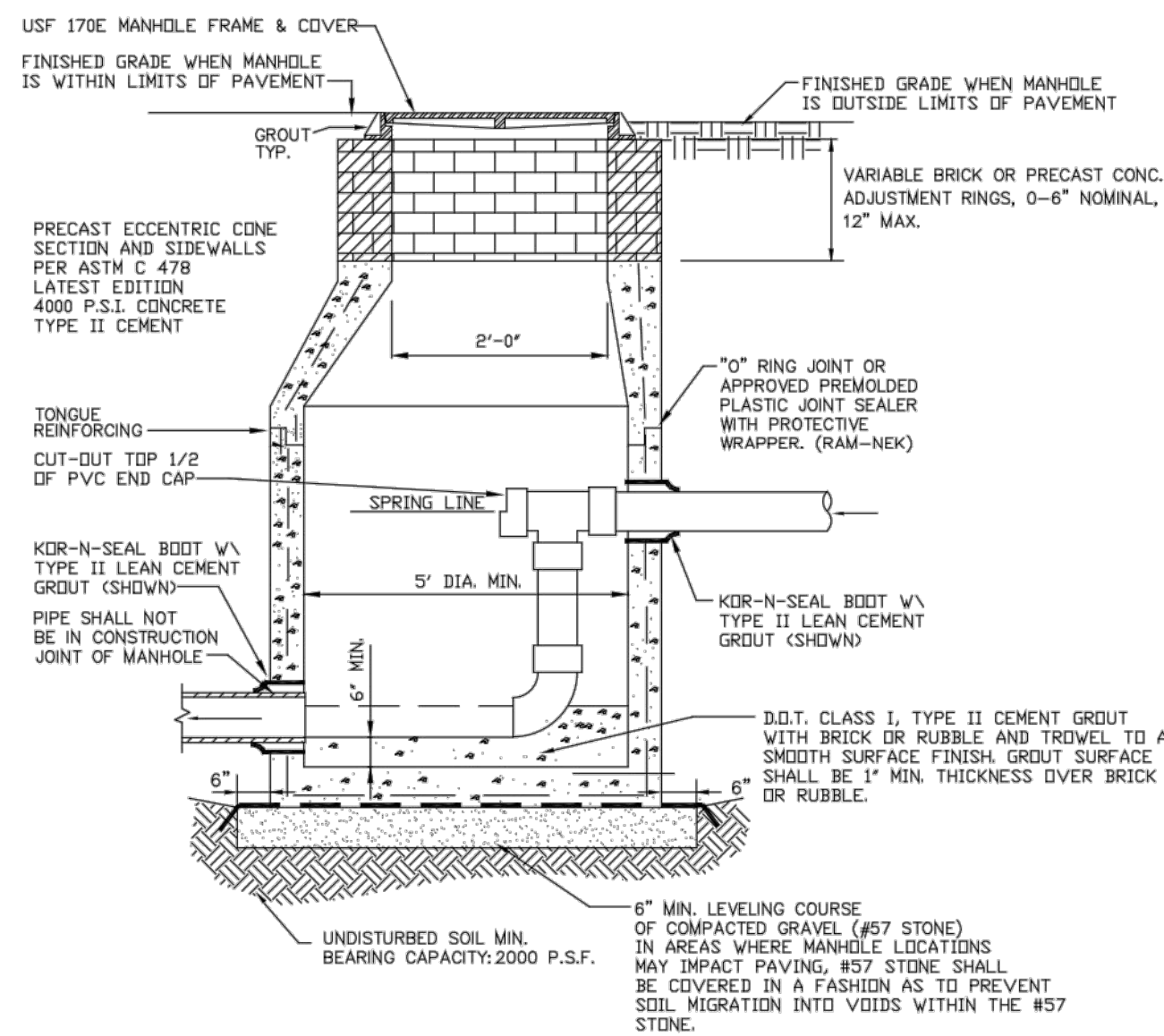
6" MIN. LEVELING COURSE OF COMPACTED GRAVEL (#57 STONE)

UNDISTURBED SOIL MIN. BEARING CAPACITY: 2000 P.S.F.

IN AREAS WHERE MANHOLE LOCATIONS MAY IMPACT PAVING, #57 STONE SHALL BE COVERED IN A FASHION AS TO PREVENT SOIL MIGRATION INTO VOID'S WITHIN THE #57

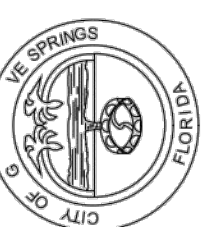
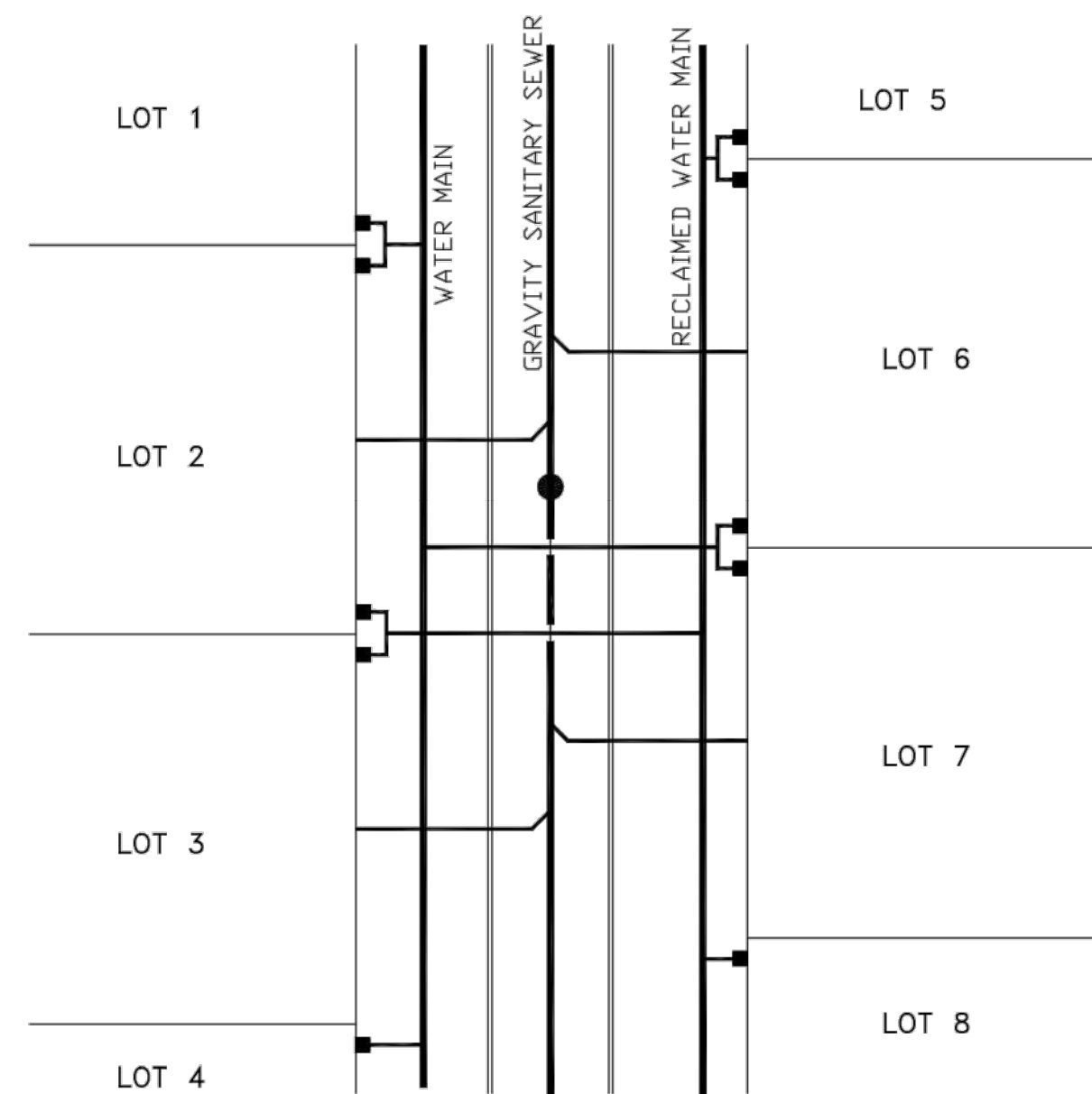
SECTION VIEW

MANHOLE FRAME AND COVER SHALL BE USF CO. MOD. NO. 1708



NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY TAYLOR PRECAST CO. OR APPROVED EQUAL.

2. SIZE OF DROP PIPE CONNECTION TO MANHOLE SHALL BE DESIGNED BY THE PROJECT ENGINEER. MINIMUM SIZE SHALL BE 4" CONNECTION AND DROP PIPE SHALL BE SIZED TO REDUCE THE VELOCITY AND PREVENT "SPLOSHOVER" WITHIN THE MANHOLE. 5'-0" MINIMUM DISTANCE FROM MANHOLE TO REDUCER MAY BE INCREASED TO ASSIST IN THIS VELOCITY REDUCTION.



ACAD FILE NAME
SERVICES.DWG
SHEET NO.

OWNER'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS
SITE DESCRIPTION PROJECT NAME: LOCATION: LATITUDE: LONGITUDE: OWNER NAME AND ADDRESS: DESCRIPTION: SOIL DISTURBING ACTIVITIES WILL INCLUDE: RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 2. DURING CONSTRUCTION = 3. POST-CONSTRUCTION = EXISTING SOIL TYPE: ESTIMATED SWILS: SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS. * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION. SITE AREA: 1. TOTAL AREA OF SITE = _____ACRES 2. TOTAL AREA TO BE DISTURBED = _____ACRES NAME OF RECEIVING WATERS: OUTFALL 1: DRAINAGE AREA: LATITUDE: LONGITUDE: OUTFALL 2: DRAINAGE AREA: LATITUDE: LONGITUDE:	GENERAL THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULENTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION. SEQUENCE OF MAJOR ACTIVITIES: THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS: 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE 2. INSTALL SILT FENCES AND SYNTHETIC SALES AS REQUIRED 3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN 4. CONSTRUCT SEDIMENTATION BASIN 5. CONTINUE CLEARING AND GRUBBING 6. STOCKPILE TOP SOIL IF REQUIRED 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED 8. STABILIZE DENUDEED AREAS AND STOCKPILES AS SOON AS PRACTICABLE 9. INSTALL STORM SEWER AND IRRIGATION 10. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOIL AND PLANTING 11. REMOVE ACCUMULATED SEDIMENT FROM BASINS 12. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOIL AS REQUIRED TIMING OF CONTROLS/MEASURES AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH Dikes/SWALS WILL BE REGRADDED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN. CONTROLS IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES. EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES 1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO THE DETAILS FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO THE DETAILS FOR PROPER LOCATION, MATERIAL AND USAGE. 2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO THE DETAIL SHEET FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY, AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO WITH THE DETAILS.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:

A. BLOCK & GRAVEL: SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO THE DETAIL SHEET FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER.

AREAS, REFER TO THE DETAILS FOR CONSTRUCTION OF CURB INLET & DROP B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED SEDIMENT TRAP.

C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q > 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SKIGNED: _____

DATED: _____

CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO THE DETAILS.

5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDDED OR SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDRO MULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL AS A MINIMUM BE SEEDDED. THE SEEDING MAY MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOODED.

15. TEMPORARY FLOATING TURBIDITY BARRIER: FLOATING TURBIDITY BARRIER MAY BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH. FILTER CURTAIN SHALL REACH THE BOTTOM UP TO DEPTHS OF 10 FEET.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.

D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

REFER TO THE DETAILS FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO THE DETAILS FOR PROPER LOCATION, MATERIAL AND USAGE.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

REFER TO THE DETAIL SHEET FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY, AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO WITH THE DETAILS.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:

A. BLOCK & GRAVEL: SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO THE DETAIL SHEET FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER.

AREAS, REFER TO THE DETAILS FOR CONSTRUCTION OF CURB INLET & DROP B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED SEDIMENT TRAP.

C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q > 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPALIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

☐ Concrete

☐ Fertilizers

☐ Wood

☐ Asphalt

☐ Petroleum Based Products

☐ Masonry Blocks

☐ Tar

☐ Cleaning Solvents

☐ Roofing Materials

☐ Detergents

☐ Paints

☐ Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POINT PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (a.k.a. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SH/HE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDEED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POINT PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (a.k.a. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SH/HE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDEED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

* DIVERSION DIKES/SWALS WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* WATER FROM WATER LINE FLUSHING

* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

RESPONSIBLE CREDITIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR FOR ALL SITES					
SIGNATURE / DATE					

NOTE TO CONTRACTOR:

CERTIFICATION IS REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.50 INCHES.

INSPECTION AND CORRECTIVE ACTION REPORT TEMPLATES AND FORMS CAN BE ACCESSED FROM THE WEB ADDRESS LISTED BELOW:

HTTPS://WWW.EPA.GOV/NPDES/CONSTRUCTION-GENERAL-PERMIT-RESOURCES-TOOLS-AND-TEMPLATES#INSPECTION