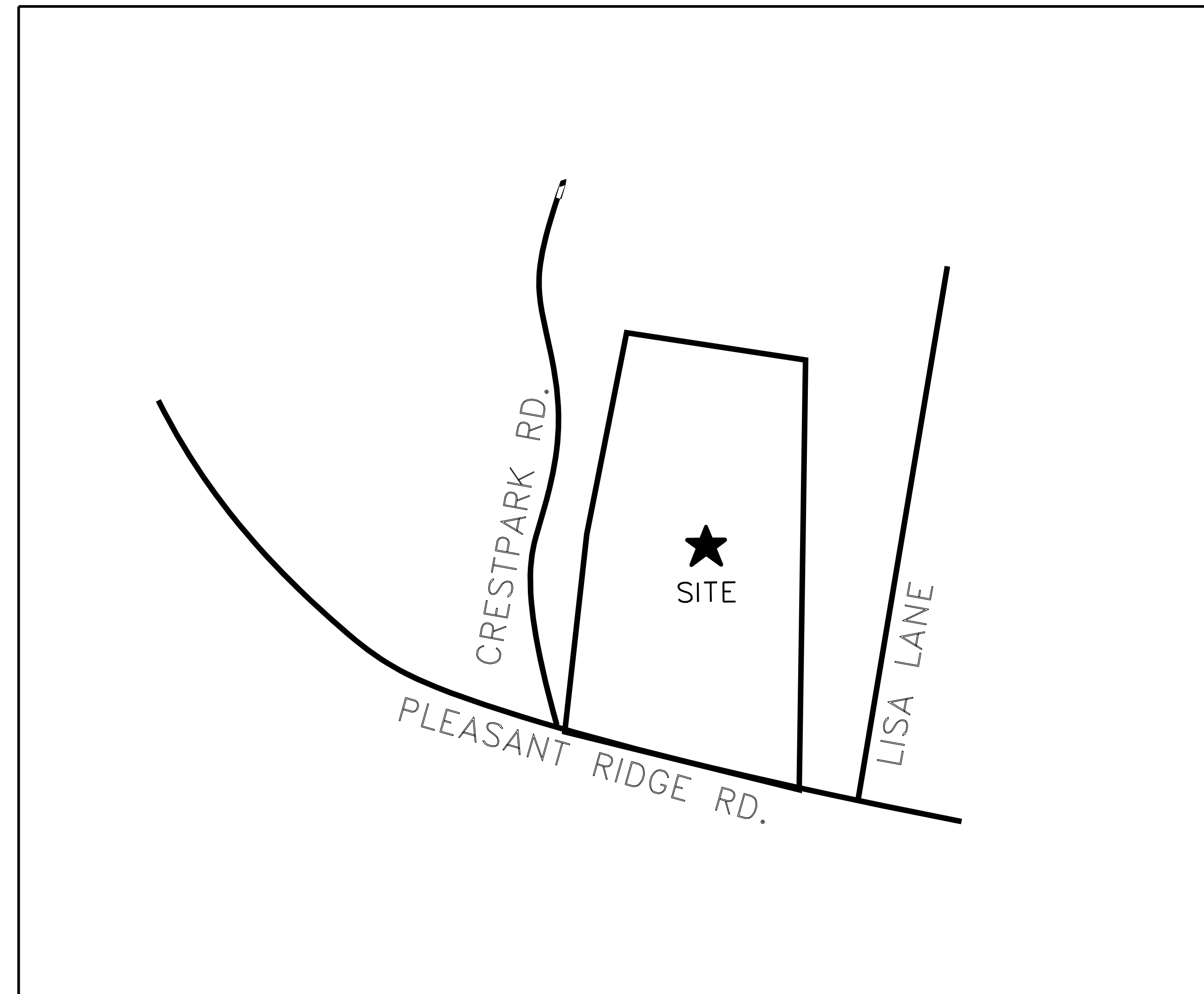


PLEASANT VILLAGE S/D

KNOXVILLE, TENNESSEE

7-SA-24-C / 7-A-24-SU
05.23.2024



VICINITY MAP

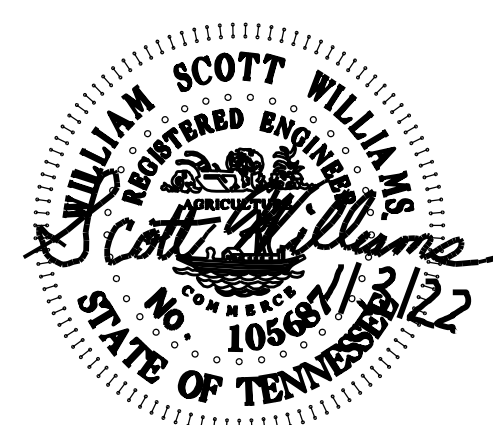
SHEET INDEX

C0	EXISTING CONDITIONS / DEMOLITION PLAN
C1	SITE LAYOUT, PAVING, & STRIPING PLAN
C2	GRADING AND DRAINAGE PLAN
C3	ROAD PROFILES
C4	STORM SEWER PROFILES
D1-D5	SITE DETAILS
SWP1-4	STORMWATER POLLUTION PREVENTION PLAN
SA1&2	SANITARY SEWER PLAN & PROFILE
WL1	WATERLINE PLAN

DEVELOPER

ERIC CHEN

5934 PLEASANT RIDGE RD
KNOXVILLE, TN 37912
646-407-8930



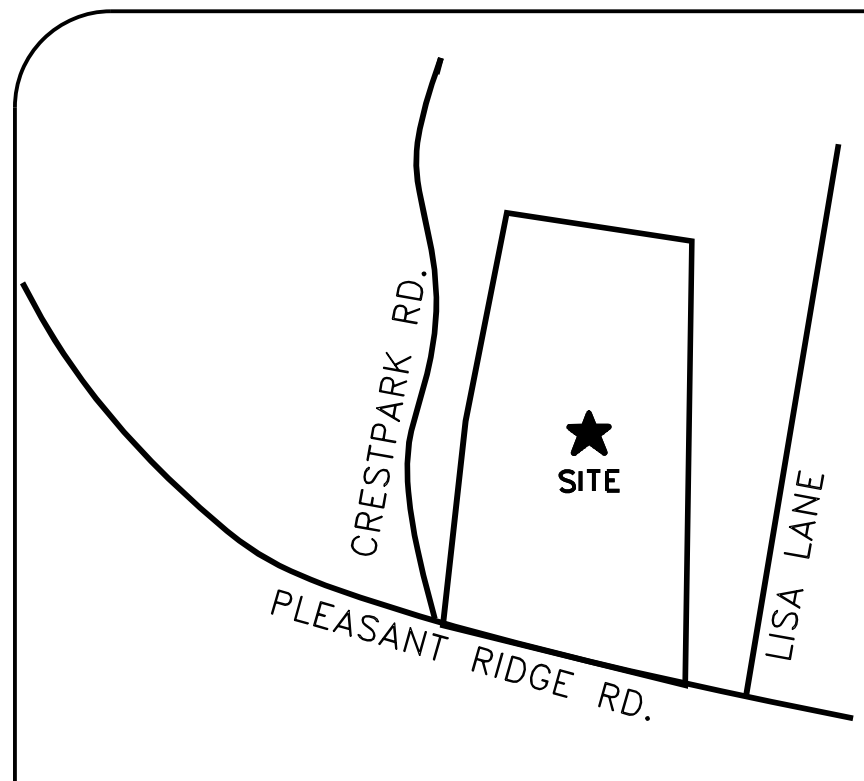
SEPT. 1, 2017
REV.4 Jan 3, 2022

W. Scott Williams
and Associates

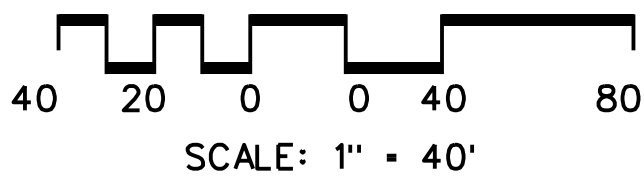
4530 Annalee Way
Knoxville, TENNESSEE 37921
PHONE: (865) 692-9809
FAX: (865) 692-9809
E-MAIL: WSCOTTWILL@COMCAST.NET

CONSULTING
CIVIL ENGINEERING
LAND SURVEYING

JOB # 1738



VICINITY MAP
N.T.S.

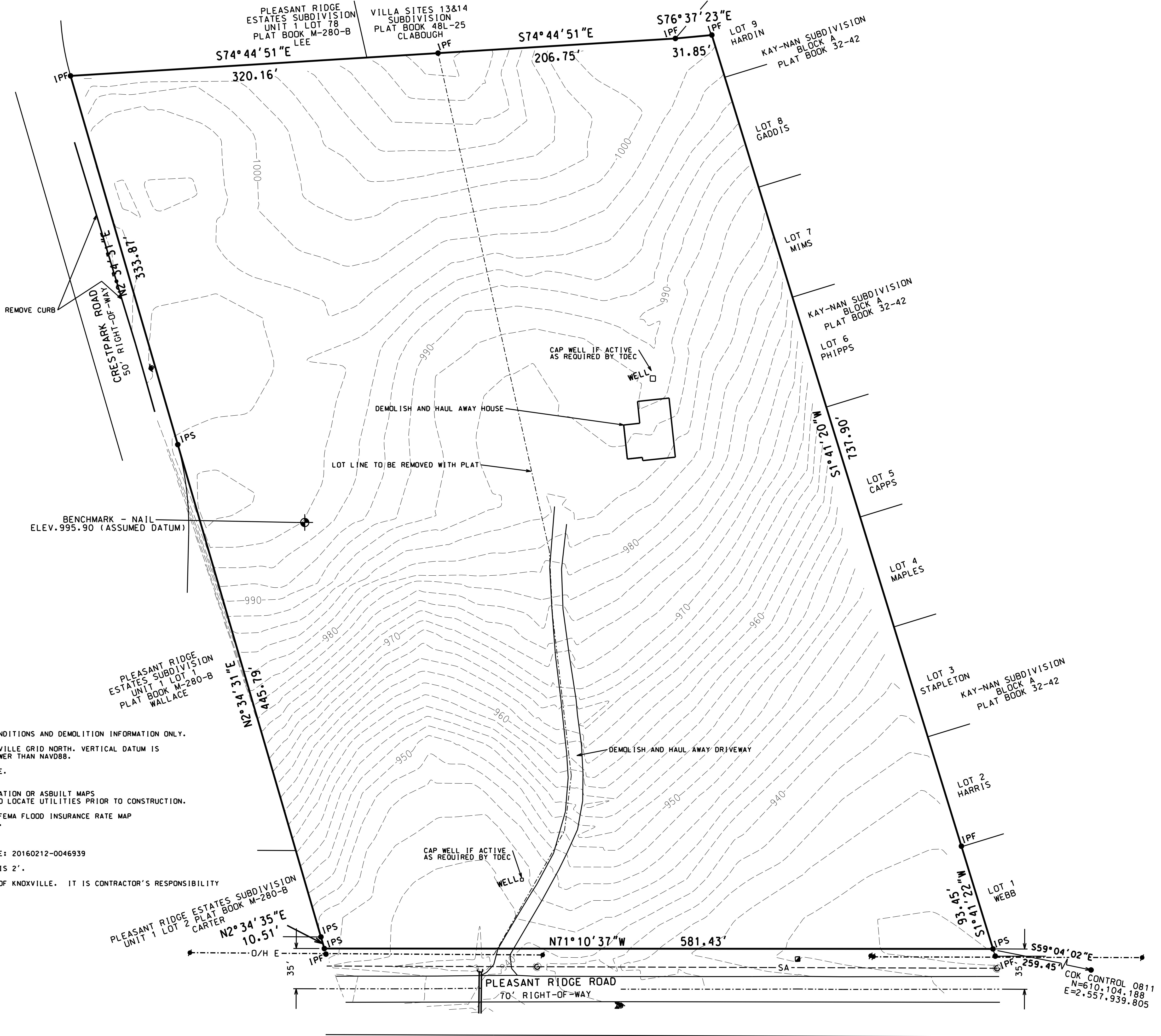


LEGEND

- (F) MONUMENTATION FOUND (OLD)
- IPF IRON PIN FOUND (OLD)
- IPS IRON PIN SET (NEW)
- EASEMENT
- BUILDING SETBACK
- C- CENTERLINE PAVEMENT
- U UTILITY OR POWER POLE
- ⊙ SANITARY SEWER MANHOLE
- SA- SANITARY SEWER
- SEWER CLEAN OUT
- W- WATER
- WATER VALVE
- HYDRANT
- WATER METER
- SIGN
- G- GAS
- ==== STORM SEWER
- CATCH BASIN
- CONCRETE HEADWALL
- 986- CONTOUR

NOTES:

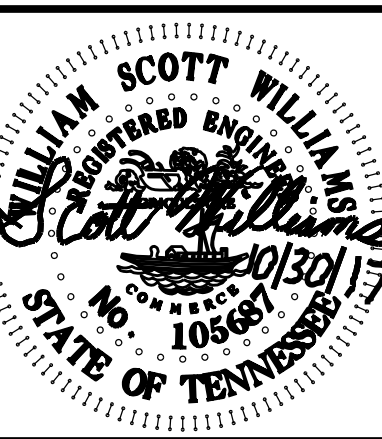
1. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS AND DEMOLITION INFORMATION ONLY.
2. BEARINGS SHOWN HEREON ARE BASED ON CITY OF KNOXVILLE GRID NORTH. VERTICAL DATUM IS BASED ON ASSUMED DATUM AND ARE APPROX. 86.56' LOWER THAN NAVD88.
3. THIS PROPERTY IS ZONED RP-1 IN CITY OF KNOXVILLE. SETBACKS ARE PER ZONING OR MPC APPROVAL.
4. ALL UTILITIES SHOWN ARE LOCATED BY FIELD OBSERVATION OR ASBUILT MAPS PROVIDED BY THE RESPONSIBLE AGENCY. CALL 811 TO LOCATE UTILITIES PRIOR TO CONSTRUCTION.
5. THIS PROPERTY DOES NOT LIE IN A FLOOD ZONE PER FEMA FLOOD INSURANCE RATE MAP NUMBER 47093C0257G, EFFECTIVE DATE AUG. 5, 2013.
6. TOTAL AREA THIS SURVEY: 10.242 ACRES.
7. DEED REFERENCE: 20170104-0042227 PLAT REFERENCE: 20160212-0046939
8. TOPOGRAPHY IS FIELD SURVEYED. CONTOUR INTERVAL IS 2'.
9. ALL DEMOLITION REQUIRES A PERMIT FROM THE CITY OF KNOXVILLE. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS.



NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.

EXISTING CONDITIONS & DEMOLITION PLAN

PLEASANT VILLAGE S/D
5934 PLEASANT RIDGE ROAD
KNOXVILLE, TENNESSEE 37912
CLT MAP 080 H A PARCELS 28.01 & 28.02
CLT MAP 40 CITY BLOCK 40700



W. Scott Williams & Associates

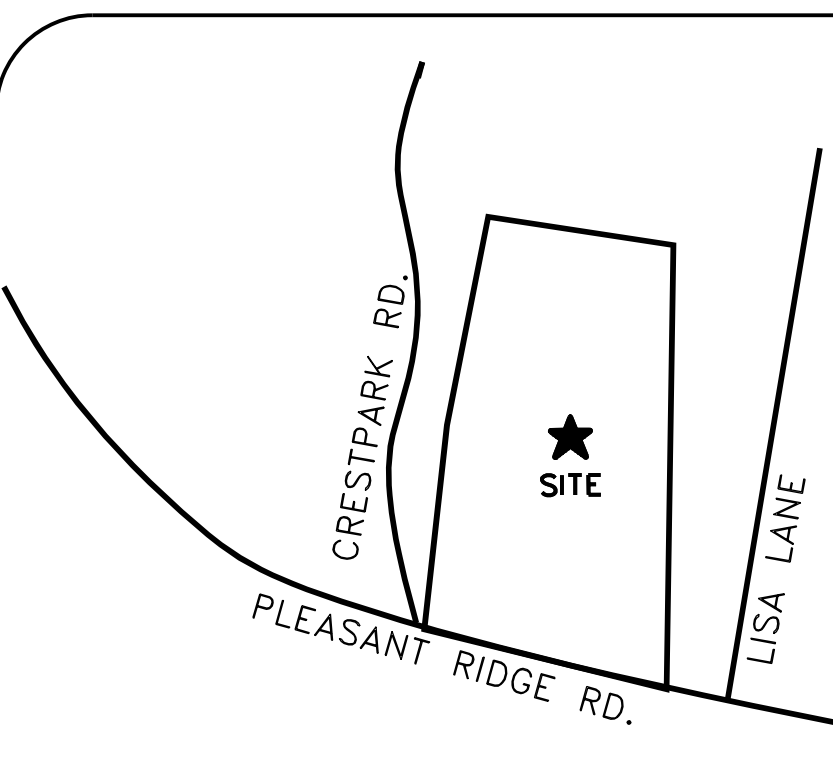
CONSULTING
LAND SURVEYING
4530 Annalee Way
Knoxville, Tennessee 37921
PHONE: (605) 652-9809
FAX: (605) 652-9809
E-MAIL: wscottwilliams@comcast.net

CLIENT:
ERIC CHEN
5934 PLEASANT RIDGE RD
KNOXVILLE, TN 37912
846-401-8930

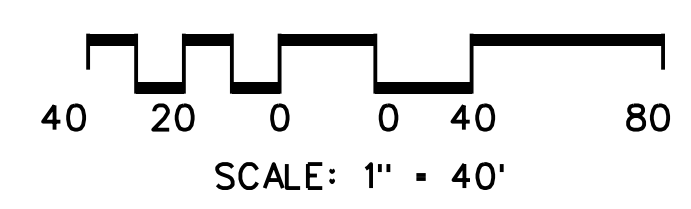
ORIGINAL ISSUE:
SEP. 1, 2017

SHEET NO.
CO

JOB NO. 1738



VICINITY MAP
N.T.S.



SITE DISTANCE INSET
1"=100'
(SEE C3 FOR PROFILE)

SIGHT DISTANCE CERTIFICATION
I hereby certify that the sight distance in each direction at Crestpark Road and Proposed Road "A" is greater than 300'.

LEGEND

- (F) MONUMENTATION FOUND (OLD)
- IPF IRON PIN FOUND (OLD)
- IPS IRON PIN SET (NEW)
- EASEMENT
- - - BUILDING SETBACK
- - - CENTERLINE PAVEMENT
- U UTILITY OR POWER POLE
- SANITARY SEWER MANHOLE
- SA - SANITARY SEWER
- SEWER CLEAN OUT
- W - WATER
- ▲ WATER VALVE
- ◆ HYDRANT
- WATER METER
- ▼ SIGN
- G - GAS
- ★ PROPOSED LIGHT POLE LOCATION

PROPOSED PERMANENT REFERENCE MARKERS

MON #1 - PK NAIL
N610523.143
E2557306.465

MON #2 - PK NAIL
N610972.746
E2557326.687

NOTES:

THIS PLAN IS TO SHOW THE SITE LAYOUT FOR PAVING, CURB, SIDEWALK, ETC. ONLY.

ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY OF KNOXVILLE REGULATIONS AND ALL O.S.H.A. STANDARDS.

THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO DIGGING. EXISTING UTILITIES SHOWN ON PLAN ARE APPROXIMATE. ANY DAMAGE TO SUCH UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

PAVEMENT MARKINGS SHALL BE 4" WIDE SOLID WHITE PAINTED STRIPES MEETING REQUIREMENTS AND INSTALLED IN ACCORDANCE WITH APPLICABLE DETAILS AND SPECIFICATIONS.

PORTLAND CEMENT CONCRETE USED IN SITE WORK CONSTRUCTION TO BE MIXED AND PLACED IN ACCORDANCE WITH A.C.I. STANDARD 318 - LATEST EDITION.

ALL SIGNS TO BE DESIGNED AND INSTALLED BY OTHERS UNDER SEPARATE SIGN PERMIT.

ADA REQUIREMENTS SHALL BE FOLLOWED AT ALL TIMES.

ANY DISCREPANCIES IN THE LAYOUT SHALL BE REPORTED TO W. SCOTT WILLIAMS & ASSOC. IMMEDIATELY.

CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PERFORMING ALL DEMOLITION AND UTILITY RELOCATION REQUIRED. ALL WORK SHALL COMPLY WITH ALL APPLICABLE REGULATIONS.

ALL PROPOSED ROADS TO BE PUBLIC.

PROPOSED PAVEMENT SHALL BE PER COK SPECIFICATIONS AND DETAILS.

SEE D1-D5 FOR SITE DETAILS.

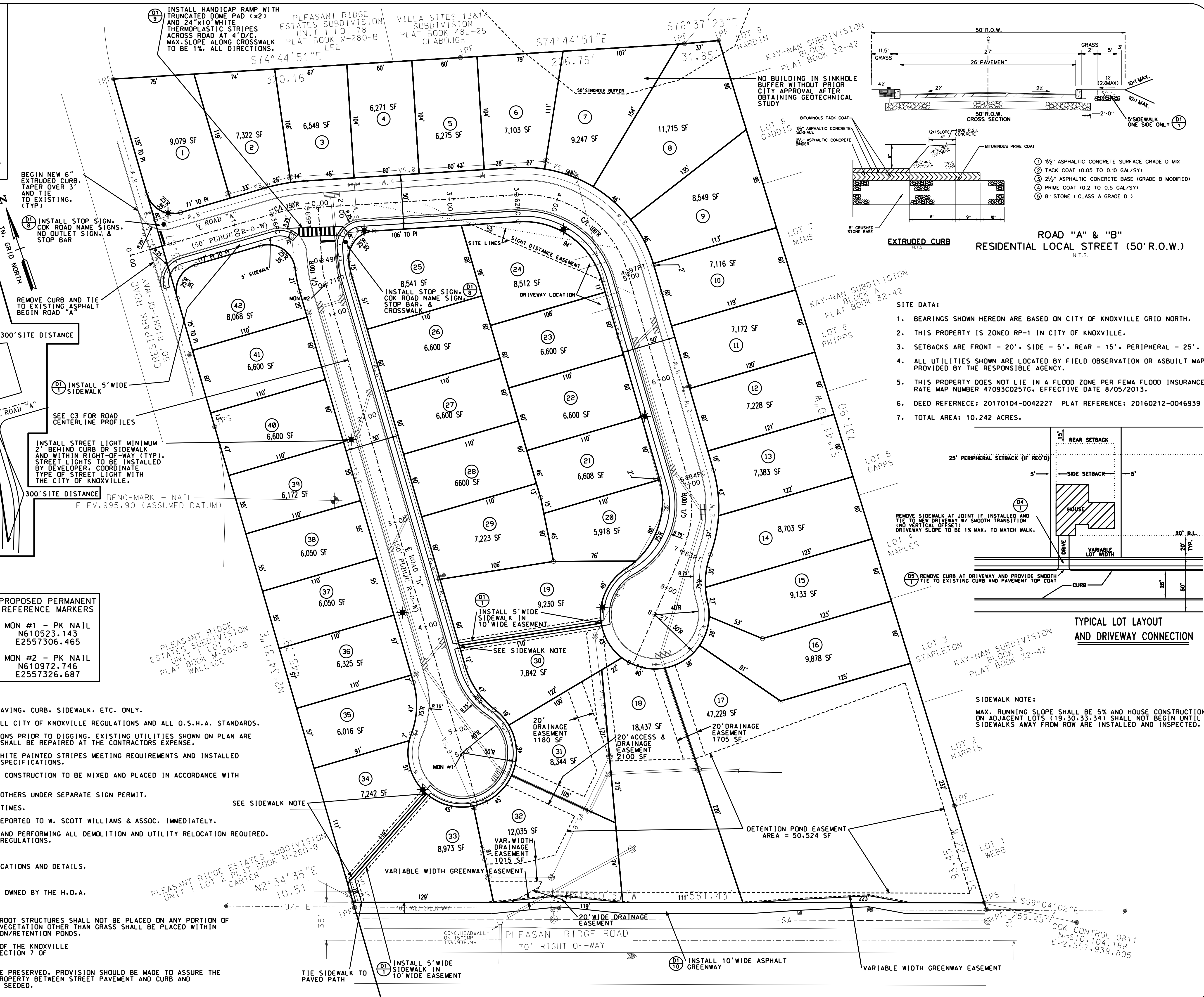
STREET LIGHTS TO BE PRIVATELY OPERATED AND OWNED BY THE H.O.A.

LANDSCAPING NOTES:

TREES OR ANY OTHER VEGETATION WITH LARGE ROOT STRUCTURES SHALL NOT BE PLACED ON ANY PORTION OF THE DETENTION/RETENTION POND (BERMS). NO VEGETATION OTHER THAN GRASS SHALL BE PLACED WITHIN THE REQUIRED STORMWATER VOLUME OF DETENTION/RETENTION PONDS.

LANDSCAPING WILL COMPLY WITH ALL ASPECTS OF THE KNOXVILLE TREE PROTECTION ORDINANCE AND ARTICLE V SECTION 7 OF THE ZONING ORDINANCE.

WHEREVER POSSIBLE, EXISTING TREES SHALL BE PRESERVED. PROVISION SHOULD BE MADE TO ASSURE THE GROWTH OF ALL LANDSCAPING MATERIAL. ALL PROPERTY BETWEEN STREET PAVEMENT AND CURB AND RIGHT-OF-WAY LINE SHALL BE BACKFILLED AND SEEDDED.



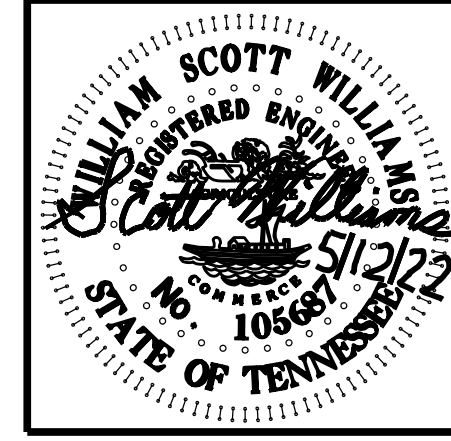
REVISIONS

NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.
2	3/12/21	CITY COMM.
3	11/12/21	CITY COMM.
4	1/3/22	CITY COMM.
5	5/12/22	CITY COMM.

SITE LAYOUT, PAVING, SIGNAGE, & STRIPING PLAN

PLEASANT VILLAGE S/D

5934 PLEASANT RIDGE ROAD
KNOXVILLE, TN 37912
CLT MAP 080 H.A. PARCELS 28, 201 & 28-02
WARD 40 CITY BLOCK 40700



W. SCOTT WILLIAMS & ASSOCIATES

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4538 Annalee Way
Crest Hill, TN 37626
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F: 615.659.5868
E: williams@williamsassoc.com

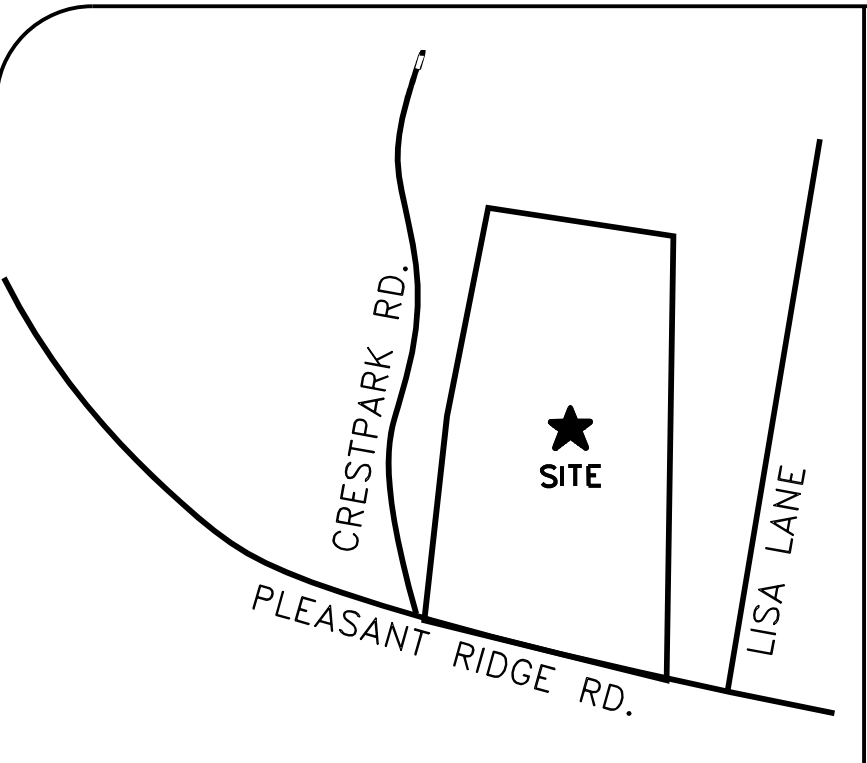
CLIENT: **ERIC CHEN**

5934 PLEASANT RIDGE RD
KNOXVILLE, TN 37912
646-407-4930

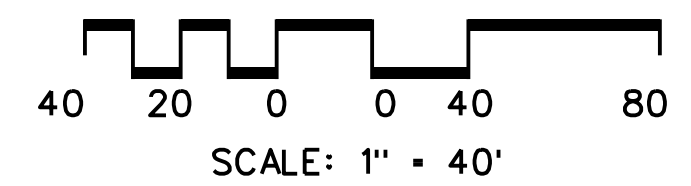
ORIGINAL ISSUE:
SEP. 1, 2017

SHEET NO.
C1

JOB NO. 1738



VICINITY MAP
N.T.S.



LEGEND

- (F) MONUMENTATION FOUND (OLD)
- IPF IRON PIN FOUND (OLD)
- IPS IRON PIN SET (NEW)
- EASEMENT
- BUILDING SETBACK
- C- CENTERLINE PAVEMENT
- U UTILITY OR POWER POLE
- SANITARY SEWER MANHOLE
- SA- SANITARY SEWER
- SEWER CLEAN OUT
- W- WATER
- WATER VALVE
- HYDRANT
- WATER METER
- SIGN
- G- GAS
- STORM SEWER
- CATCH BASIN
- CONCRETE HEADWALL
- 986- PROPOSED FINISHED GRADE CONTOUR
- 926+9- PROPOSED FINISHED GRADE ELEVATION
- G- PROPOSED DRAINAGE SWALE/DITCH

GENERAL NOTES:

BORROW MATERIAL TO BE USED FOR FILL WILL BE TESTED FOR MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT (STANDARD PROCTOR ASTM D698) PRIOR TO PLACEMENT OF FILL.

FILL SOILS WILL BE COMPACTED IN LAYERS 8 INCHES OR LESS IN THICKNESS TO A MINIMUM OF 98 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN PLUS OR MINUS 3 PERCENT OPTIMUM MOISTURE CONTENT. SIX (6) DENSITY TESTS SHOULD BE PERFORMED NO LESS THAN EVERY 10,000 SQUARE FEET OF AREA PER 8-INCH LIFT (APPROX. 1 TEST PER EVERY 50 FEET).

A SOIL REPORT BY A LICENSED GEOTECHNICAL SHALL SUPERCEDE THE ABOVE RECOMMENDATIONS.

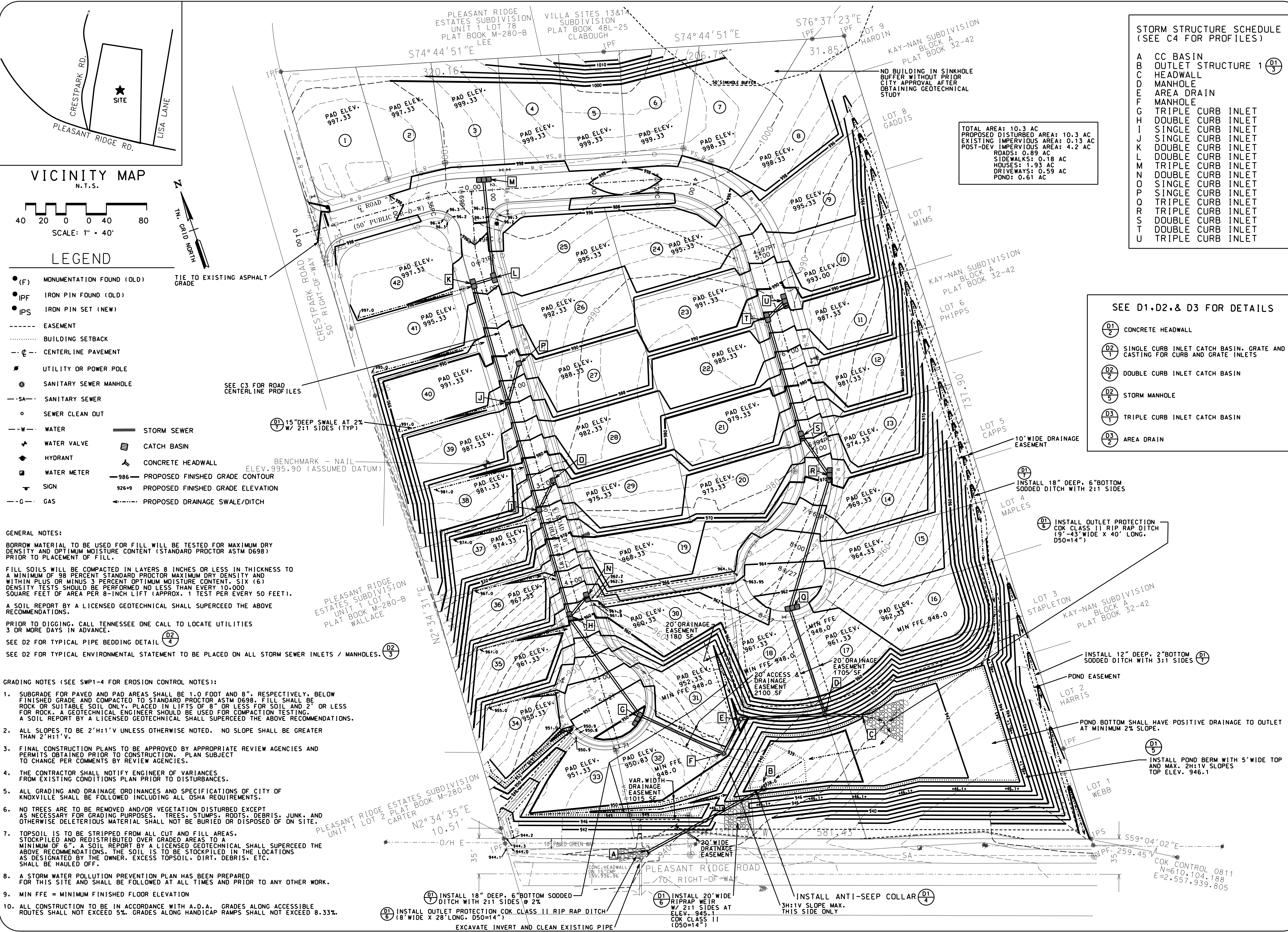
PRIOR TO DIGGING, CALL TENNESSEE ONE CALL TO LOCATE UTILITIES 3 OR MORE DAYS IN ADVANCE.

SEE D2 FOR TYPICAL PIPE BEDDING DETAIL (D2/4)

SEE D2 FOR TYPICAL ENVIRONMENTAL STATEMENT TO BE PLACED ON ALL STORM SEWER INLETS / MANHOLES. (D2/3)

GRADING NOTES (SEE SWP1-4 FOR EROSION CONTROL NOTES):

- SUBGRADE FOR PAVED AND PAD AREAS SHALL BE 1.0 FOOT AND 8", RESPECTIVELY, BELOW FINISHED GRADE AND COMPACTED TO STANDARD PROCTOR ASTM D698. FILL SHALL BE ROCK OR SUITABLE SOIL ONLY. PLACED IN LIFTS OF 8" OR LESS FOR SOIL AND 2' OR LESS FOR ROCK. A GEOTECHNICAL ENGINEER SHOULD BE USED FOR COMPACTION TESTING. A SOIL REPORT BY A LICENSED GEOTECHNICAL SHALL SUPERCEDE THE ABOVE RECOMMENDATIONS.
- ALL SLOPES TO BE 2'H:1'V UNLESS OTHERWISE NOTED. NO SLOPE SHALL BE GREATER THAN 2'H:1'V.
- FINAL CONSTRUCTION PLANS TO BE APPROVED BY APPROPRIATE REVIEW AGENCIES AND PERMITS OBTAINED PRIOR TO CONSTRUCTION. PLAN SUBJECT TO CHANGE PER COMMENTS BY REVIEW AGENCIES.
- THE CONTRACTOR SHALL NOTIFY ENGINEER OF VARIANCES FROM EXISTING CONDITIONS PLAN PRIOR TO DISTURBANCES.
- ALL GRADING AND DRAINAGE ORDINANCES AND SPECIFICATIONS OF CITY OF KNOXVILLE SHALL BE FOLLOWED INCLUDING ALL OSHA REQUIREMENTS.
- NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES. TREES, STUMPS, ROOTS, DEBRIS, JUNK, AND OTHERWISE DELETERIOUS MATERIAL SHALL NOT BE BURIED OR DISPOSED OF ON SITE.
- TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM OF 6". A SOIL REPORT BY A LICENSED GEOTECHNICAL SHALL SUPERCEDE THE ABOVE RECOMMENDATIONS. THE SOIL IS TO BE STOCKPILED IN THE LOCATIONS AS DESIGNATED BY THE OWNER. EXCESS TOPSOIL, DIRT, DEBRIS, ETC. SHALL BE HAULED OFF.
- A STORM WATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED FOR THIS SITE AND SHALL BE FOLLOWED AT ALL TIMES AND PRIOR TO ANY OTHER WORK.
- MIN FFE = MINIMUM FINISHED FLOOR ELEVATION
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH A.D.A. GRADES ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 5%. GRADES ALONG HANDICAP RAMPS SHALL NOT EXCEED 8.33%.



TOTAL AREA: 10.3 AC
PROPOSED DISTURBED AREA: 10.3 AC
EXISTING IMPERVIOUS AREA: 0.13 AC
POST-DEV IMPERVIOUS AREA: 4.2 AC
ROADS: 0.89 AC
SIDEWALKS: 0.18 AC
HOUSES: 1.93 AC
DRIVEWAYS: 0.59 AC
POND: 0.61 AC

STORM STRUCTURE SCHEDULE
(SEE C4 FOR PROFILES)

NO.	DESCRIPTION	DATE	CITY COMM.
1	CC BASIN	10/30/17	
2	OUTLET STRUCTURE 1	3/19/21	
3	HEADWALL	11/19/21	
4	MANHOLE	11/19/21	
5	AREA DRAIN	5/19/22	
6	MANHOLE	5/19/22	
7	TRIPLE CURB INLET	10/3/23	
8	DOUBLE CURB INLET		
9	SINGLE CURB INLET		
10	SINGLE CURB INLET		
11	DOUBLE CURB INLET		
12	DOUBLE CURB INLET		
13	TRIPLE CURB INLET		
14	DOUBLE CURB INLET		
15	DOUBLE CURB INLET		
16	DOUBLE CURB INLET		
17	TRIPLE CURB INLET		
18	DOUBLE CURB INLET		
19	DOUBLE CURB INLET		
20	DOUBLE CURB INLET		
21	DOUBLE CURB INLET		
22	DOUBLE CURB INLET		
23	DOUBLE CURB INLET		
24	DOUBLE CURB INLET		
25	DOUBLE CURB INLET		
26	DOUBLE CURB INLET		
27	DOUBLE CURB INLET		
28	DOUBLE CURB INLET		
29	DOUBLE CURB INLET		
30	DOUBLE CURB INLET		
31	DOUBLE CURB INLET		
32	DOUBLE CURB INLET		
33	DOUBLE CURB INLET		
34	DOUBLE CURB INLET		
35	DOUBLE CURB INLET		
36	DOUBLE CURB INLET		
37	DOUBLE CURB INLET		
38	DOUBLE CURB INLET		
39	DOUBLE CURB INLET		
40	DOUBLE CURB INLET		
41	DOUBLE CURB INLET		
42	DOUBLE CURB INLET		

SEE D1, D2, & D3 FOR DETAILS

- (D1/2) CONCRETE HEADWALL
- (D2/1) SINGLE CURB INLET CATCH BASIN, GRATE AND CASTING FOR CURB AND GRATE INLETS
- (D2/2) DOUBLE CURB INLET CATCH BASIN
- (D2/5) STORM MANHOLE
- (D3/1) TRIPLE CURB INLET CATCH BASIN
- (D3/2) AREA DRAIN

- (D1/7) INSTALL 18" DEEP, 6" BOTTOM SODDED DITCH WITH 2:1 SIDES
- (D1/7) INSTALL 12" DEEP, 2" BOTTOM SODDED DITCH WITH 3:1 SIDES
- (D1/5) INSTALL POND BERM WITH 5' WIDE TOP AND MAX. 2H:1V SLOPES TOP ELEV. 946.1
- (D1/6) INSTALL 18" DEEP, 6" BOTTOM SODDED DITCH WITH 2:1 SIDES @ 2%
- (D1/6) INSTALL 20' WIDE RIPRAP WEIR WITH 2:1 SIDES AT ELEV. 945.1
- (D1/4) INSTALL OUTLET PROTECTION COK CLASS II RIP RAP DITCH (9' X 43' WIDE X 40' LONG, D50=14")
- (D1/4) INSTALL ANTI-SEEP COLLAR THIS SIDE ONLY

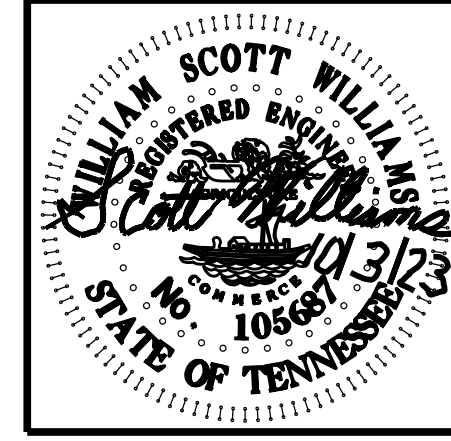
REVISIONS

NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.
2	3/19/21	CITY COMM.
3	11/19/21	CITY COMM.
4	11/19/21	CITY COMM.
5	5/19/22	CITY COMM.
6	10/3/23	CITY COMM.

GRADING AND DRAINAGE PLAN

PLEASANT VILLAGE S/D

5834 PLEASANT RIDGE ROAD
KNOXVILLE, TN 37912
KIP: 610.104.188
CLT MAP 080 H.A. PARCELS 28, 201 & 28-02
WARD 40 CITY BLOCK 40700



W. SCOTT WILLIAMS & ASSOCIATES

CONSULTING
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LAND SURVEYING

4538 Annalee Way
Knoxville, TN 37921
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CLIENT:

ERIC CHEN

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646-407-4930

ORIGINAL ISSUE:

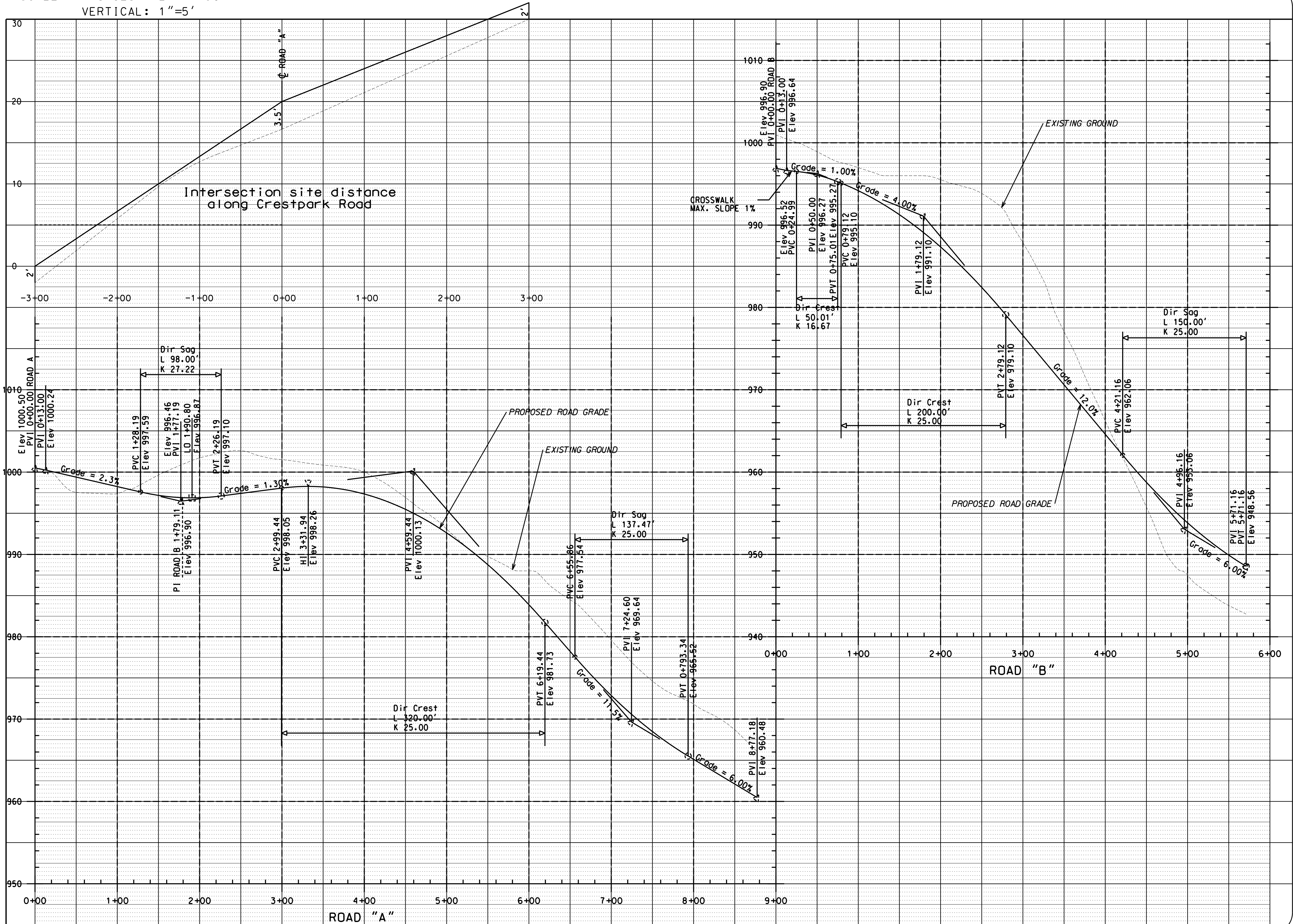
SEP. 1, 2017

SHEET NO.

C2

JOB NO. 1738

SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'



NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.
2	1/3/22	CITY COMM.

ROAD PROFILES

PLEASANT VILLAGE S/D

5834 PLEASANT RIDGE RD
KNOXVILLE, TN 37912
CLT MAP 080 H A PARCELS 28, 201 & 28-02
WARD 40 CITY BLOCK 40700



W. SCOTT WILLIAMS ASSOCIATES

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4538 Annalee Way
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E-Mail: wscottwilliams@comcast.net

CLIENT:
ERIC CHEN

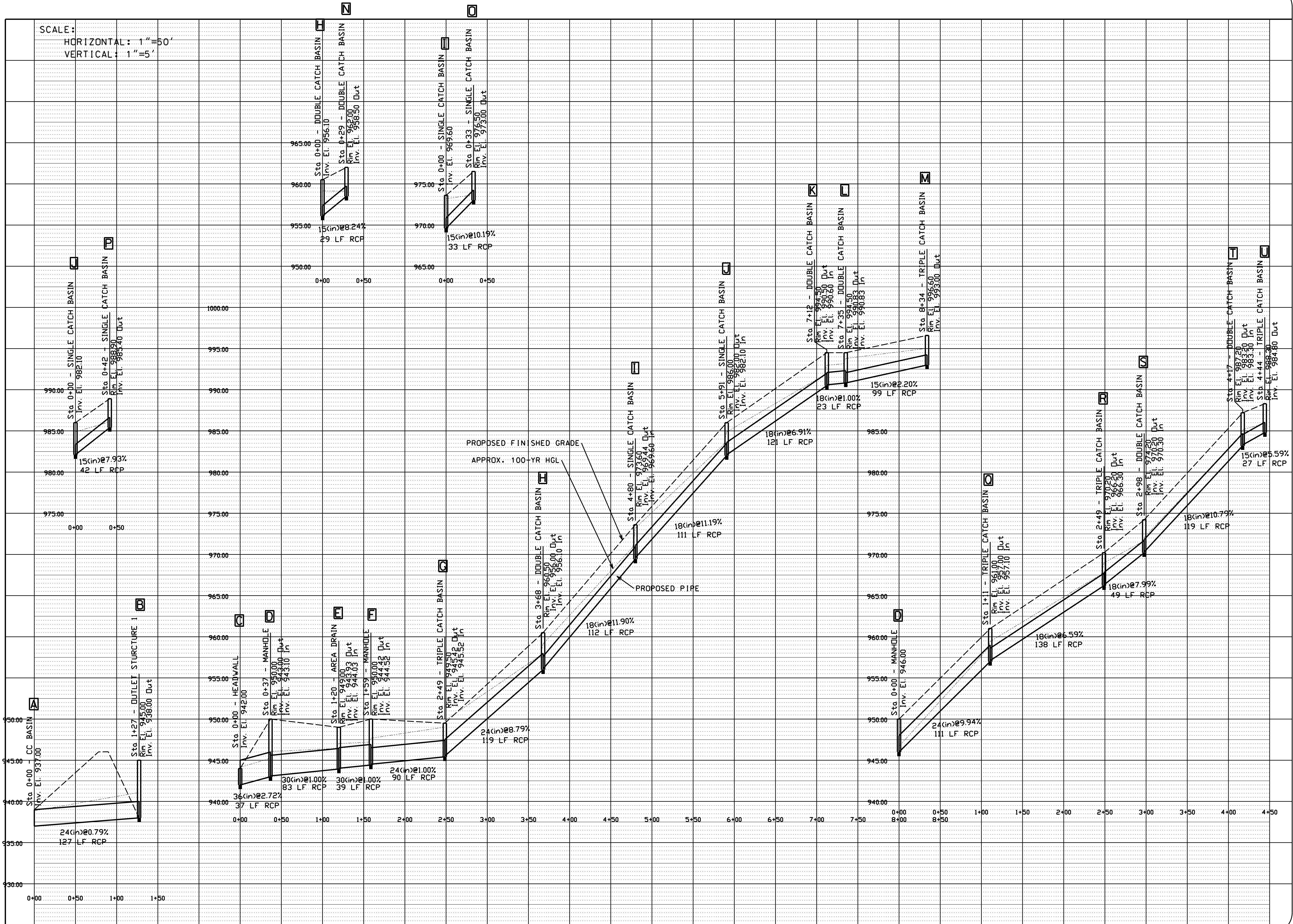
5834 PLEASANT RIDGE RD
KNOXVILLE, TN 37912
646-407-8930

ORIGINAL ISSUE:
SEP. 1, 2017

SHEET NO.
C3

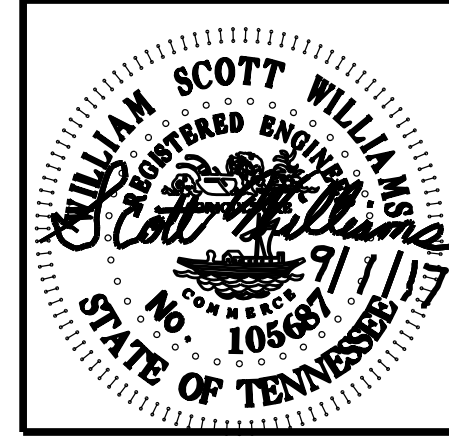
JOB NO. 1738

SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'



NO.	DATE	DESCRIPTION

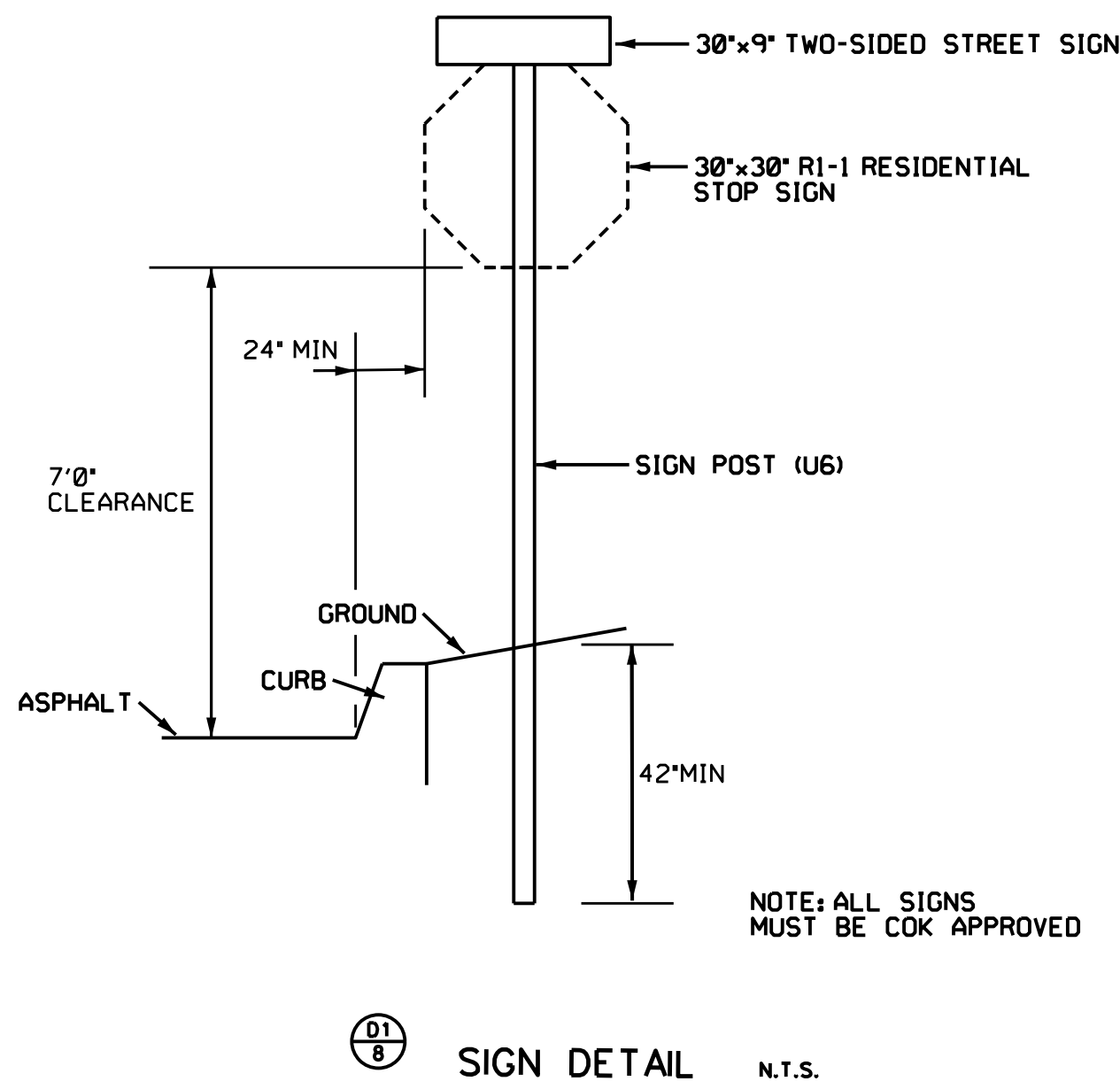
STORM SEWER PROFILES
 PLEASANT VILLAGE S/D
 5934 PLEASANT RIDGE ROAD
 KNOXVILLE, TENNESSEE 37912
 CLT MAP 080 H A PARCELS 28.01 & 28.02
 WARD 40 CITY BLOCK 40700



W. Scott Williams & Associates
 4530 Annalee Way
 Knoxville, Tennessee 37921
 PHONE: (865) 692-9809
 FAX: (865) 692-9809
 E-MAIL: wscottwill@comcast.net
 CONSULTING
 CIVIL ENGINEERING
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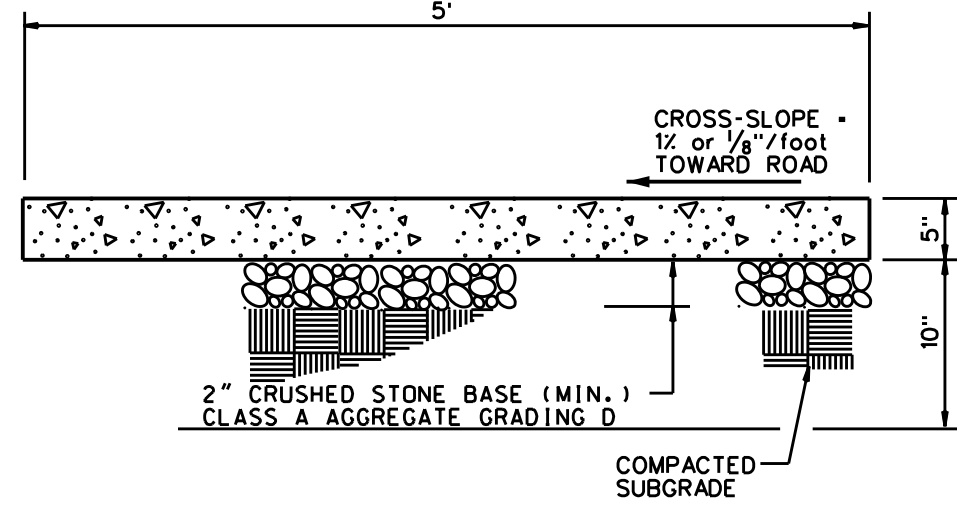
CLIENT:
ERIC CHEN
 5934 PLEASANT RIDGE RD
 KNOXVILLE, TN 37912
 846-401-8930

ORIGINAL ISSUE:
 SEP. 1, 2017
 SHEET NO.
C4
 JOB NO. 1738

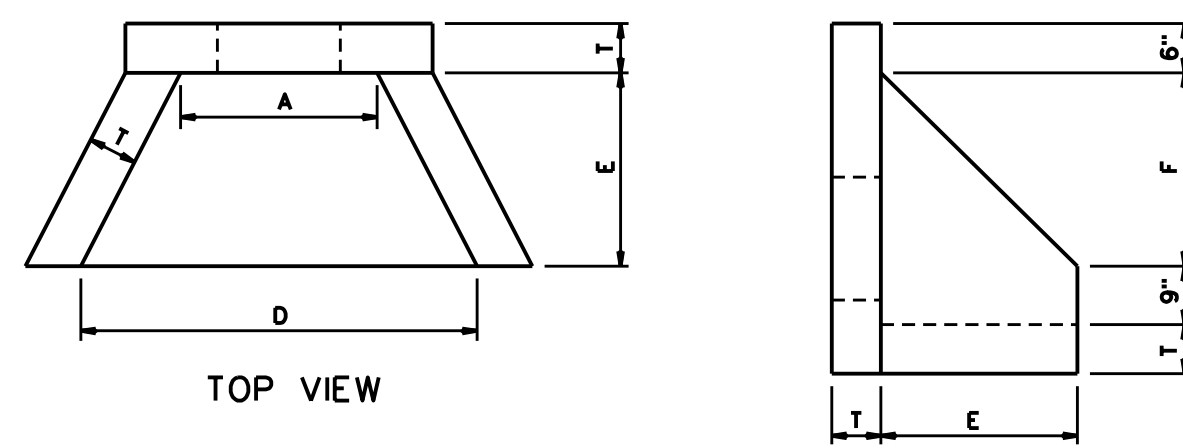


01/8 SIGN DETAIL N.T.S.

- NOTES:
1. EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 20' APART OR AS DIRECTED BY THE ENGINEER.
 2. EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, DRIVE RAMP AND INLETS.
 3. CONSTRUCTION JOINTS ARE TO BE CUT INTO CURB EVERY 5' TO A DEPTH OF D/4.
 4. SEE CITY OF KNOXVILLE DETAIL COK-6.



01/1 CONCRETE SIDEWALK N.T.S.



TOP VIEW

SIDE VIEW

FRONT VIEW

CONCRETE: 4000 PSI AT 28 DAYS REINFORCED WITH NO. 4 BARS 10' C/C EACH WAY WITH WINGS AND TOE SLAB DOWELLED TO HEADWALL WITH NO. 3 BARS.
1/4" CHAMFER ON ALL EXPOSED EDGES.

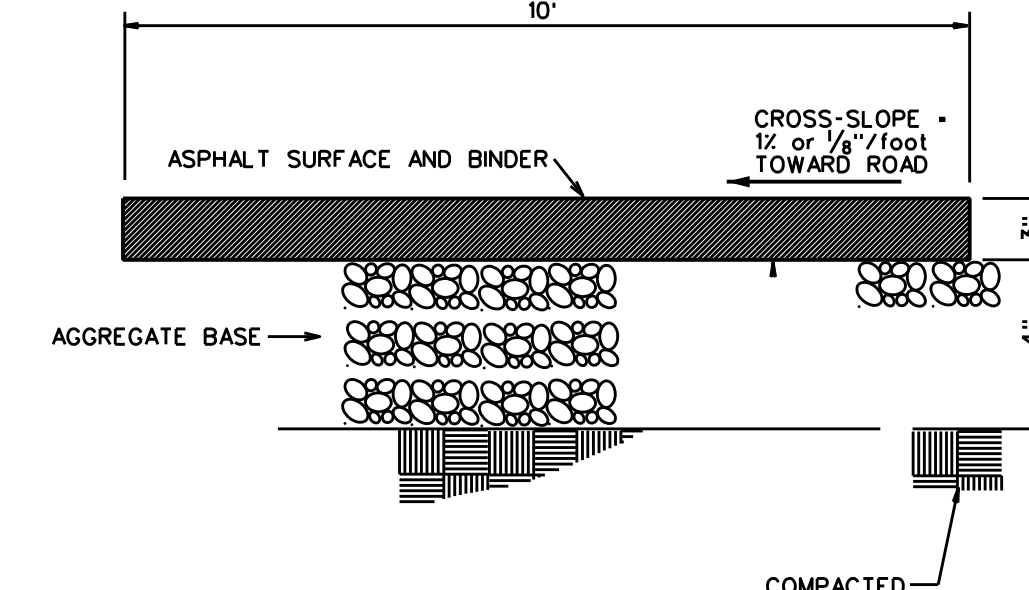
01/2 CONCRETE HEADWALL N.T.S.

TABLE OF DIMENSIONS

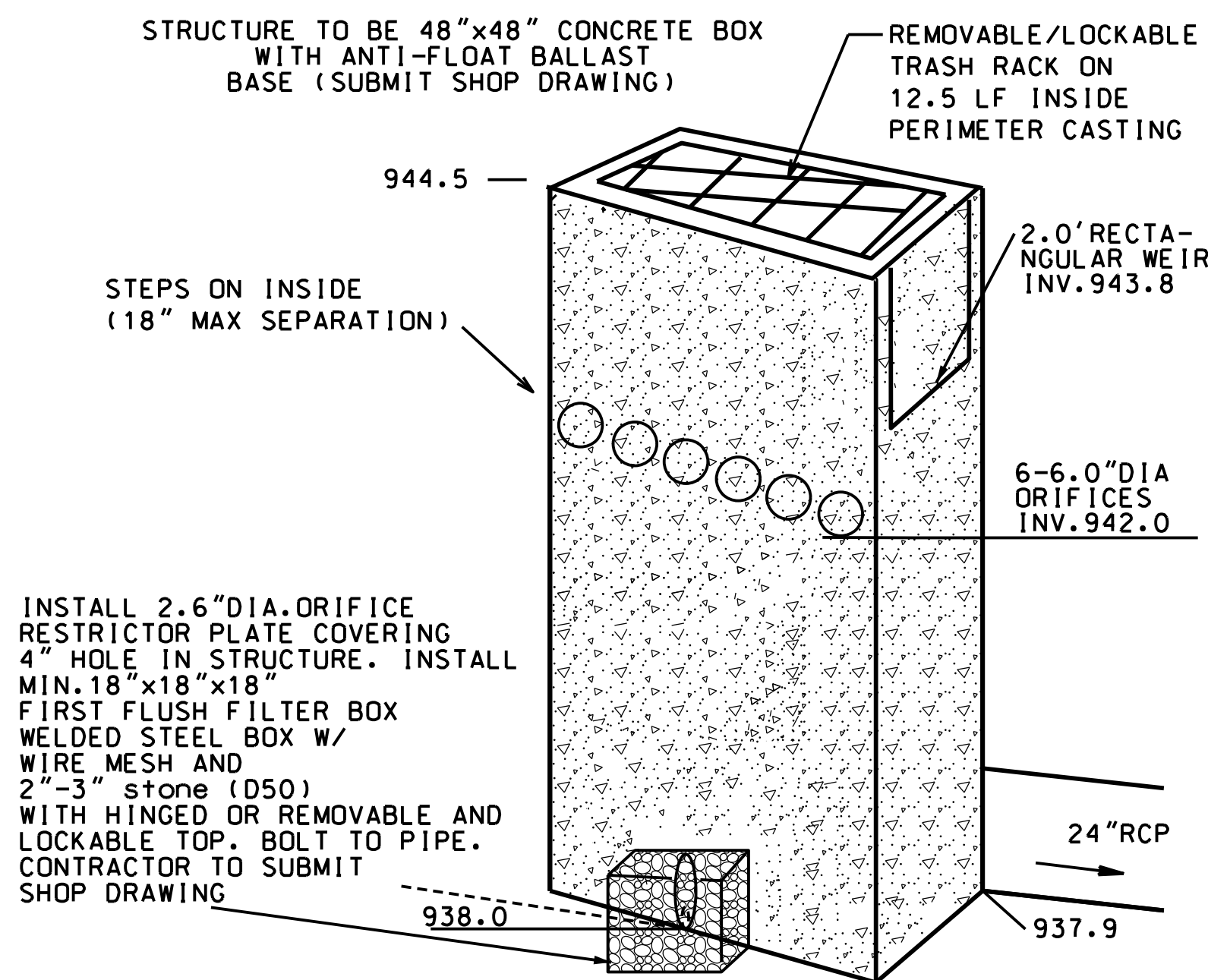
PIPE SIZES	A	D	E	F	T (MIN)
15"	2'-6"	5'-0"	2'-6"	1'-9"	6"
18"	2'-6"	5'-0"	2'-6"	1'-9"	6"
21"	2'-6"	5'-0"	2'-6"	1'-9"	6"
24"	4'-0"	6'-6"	3'-0"	3'-3"	6"
30"	4'-0"	6'-6"	3'-0"	3'-3"	6"
36"	5'-6"	8'-0"	3'-6"	4'-5"	6"
42"	5'-6"	8'-0"	3'-6"	4'-5"	6"
48"	5'-6"	8'-0"	3'-6"	4'-5"	6"
54"	7'-0"	9'-5"	4'-6"	5'-9"	6"
60"	7'-0"	9'-5"	4'-6"	5'-9"	6"
66"	8'-6"	11'-0"	5'-6"	6'-11"	6"
72"	8'-6"	11'-0"	5'-6"	6'-11"	6"

GREENWAY PAVEMENT SPECIFICATION

- Surface:
1" ACS mix, grading E shoulder TDOT spec. section 411-01.07 - asphaltic concrete surface mix
- Binder:
2" asphalt conc mix (PG 64-22) (BPM-HM) Grading "B-M2" TDOT spec. section 307-01.08 - bituminous plant mix base
- Aggregate base:
4" mineral aggregate base, class A, grade "D" TDOT spec. section 303-01 - mineral aggregate base

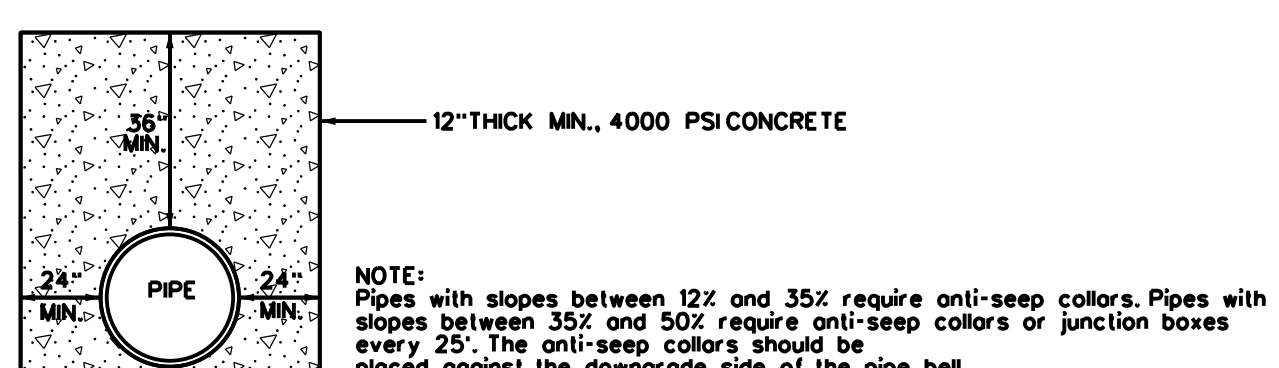


01/10 ASPHALT PATH N.T.S.

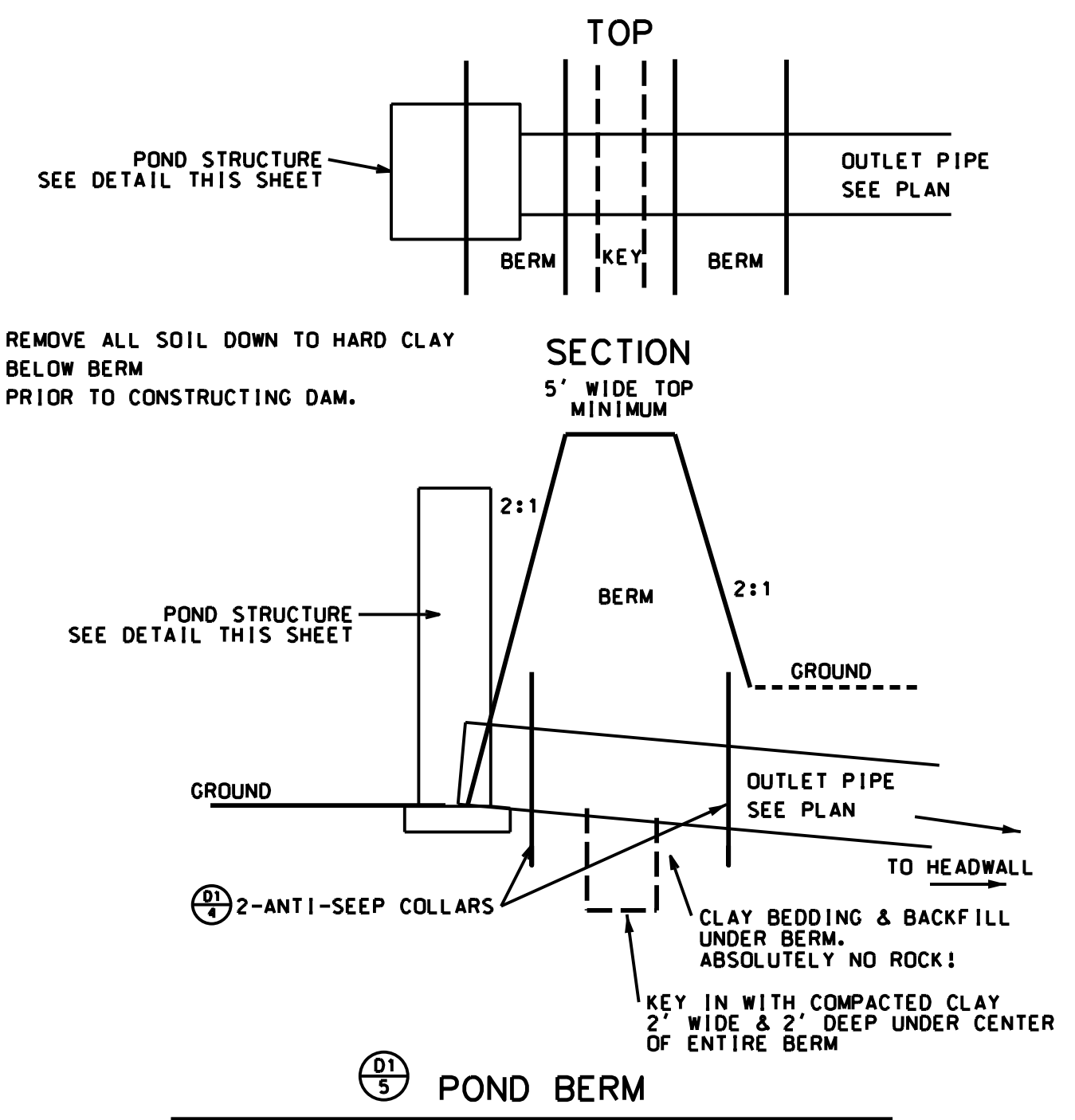


01/3 DETECTION POND STRUCTURE 1

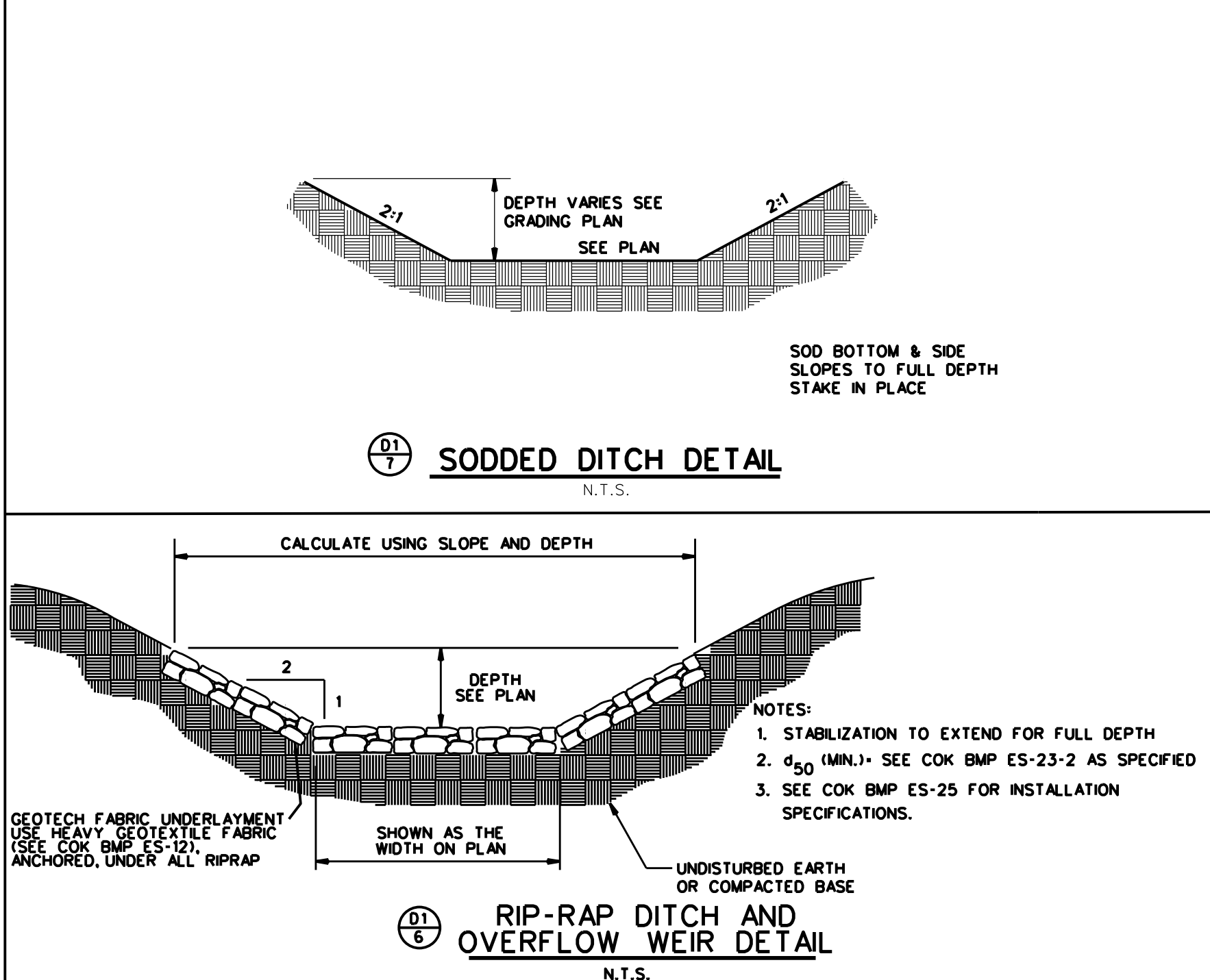
INSTALL 2.6" DIA. ORIFICE RESTRICTOR PLATE COVERING 4" HOLE IN STRUCTURE. INSTALL MIN. 18" x 18" x 18" FIRST FLUSH FILTER BOX WELDED STEEL BOX W/ WIRE MESH AND 2"-3" stone (D50) WITH HINGED OR REMOVABLE AND LOCKABLE TOP. BOLT TO PIPE. CONTRACTOR TO SUBMIT SHOP DRAWING



01/4 ANTI-SEEP COLLAR N.T.S.



01/5 POND BERM N.T.S.



01/7 SODDED DITCH DETAIL N.T.S.

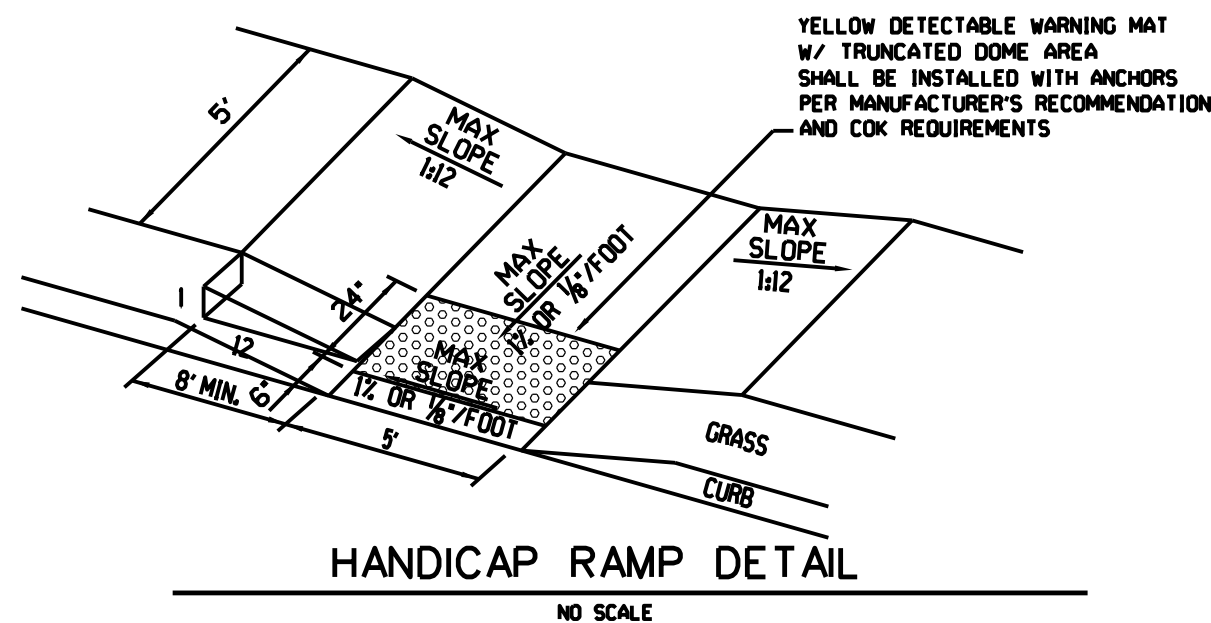
01/6 RIP-RAP DITCH AND OVERFLOW WEIR DETAIL N.T.S.

ADA DETAILS

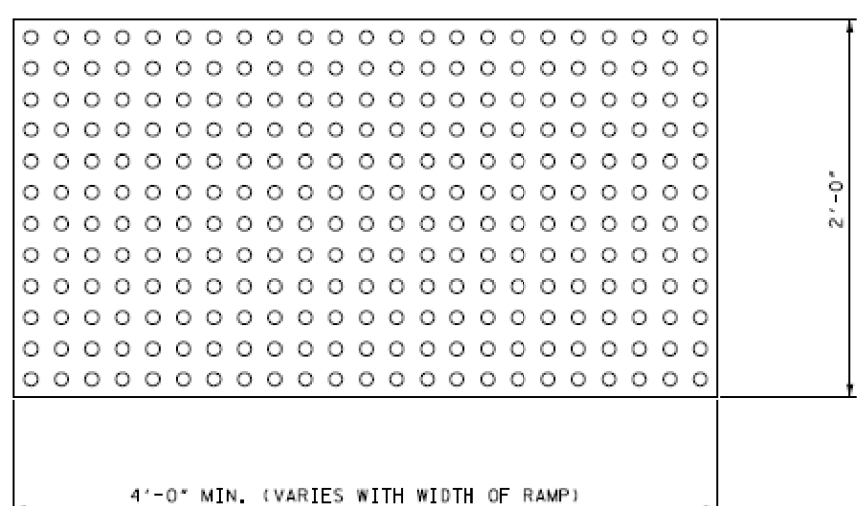
01/9

TACTILE WARNING SYSTEMS

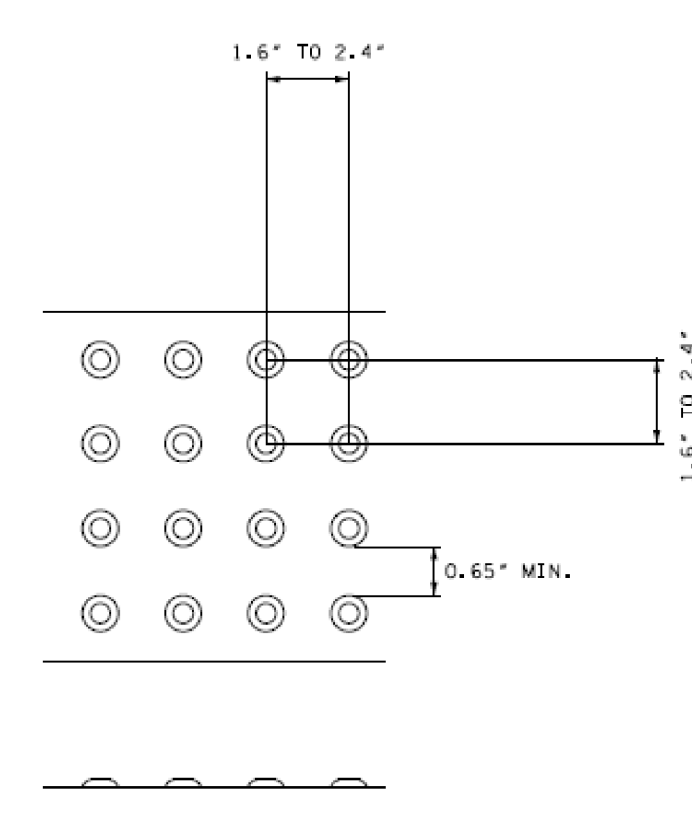
TRUNCATED DOMES



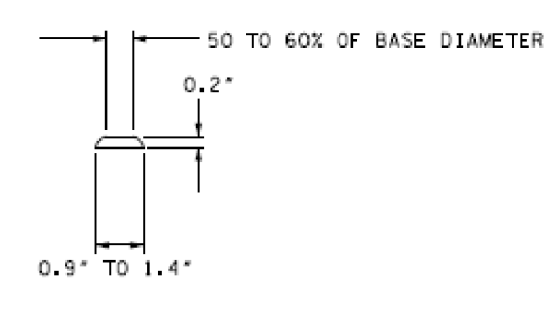
HANDICAP RAMP DETAIL NO SCALE



TRUNCATED DOME PLAN VIEW



TRUNCATED DOME SPACING



TRUNCATED DOME SECTION

NOTES:

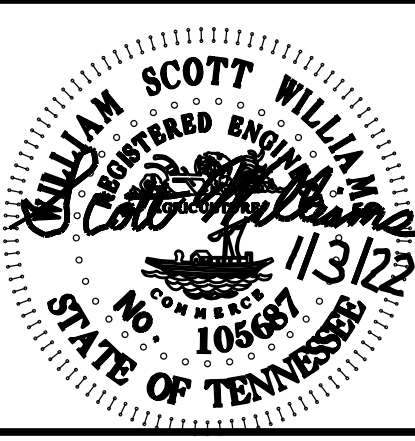
1. WIDTH OF DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET AND VARY WITH WIDTH OF RAMP.
2. LENGTH OF DETECTABLE WARNING AREA SHALL BE 2 FEET REGARDLESS OF SECTION WIDTH.
3. TACTILE WARNING SYSTEMS SHALL BE LOCATED AT THE BACK OF CURB.
4. DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
5. DETECTABLE WARNING AREA SHALL BE COLORED YELLOW IN ALL LOCATIONS.
6. ARMOR-TILE OR ADA SOLUTIONS SURFACE APPLIED TACTILE WARNING SYSTEMS OR AN EQUIVALENT SHALL BE PLACED ON EXISTING CURB CUTS.
7. SURFACE APPLIED SYSTEMS SHALL HAVE BEVELED EDGES TO ELIMINATE TRIP HAZARDS.
8. ARMOR-TILE OR ADA SOLUTIONS TACTILE WARNING CAST-IN-PLACE SYSTEMS OR AN EQUIVALENT SHALL BE USED IN THE CONSTRUCTION OF NEW CURB CUTS.

REVISIONS

NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.
2	3/12/21	CITY COMM.
3	11/12/21	CITY COMM.
4	1/3/22	CITY COMM.

SITE DETAILS

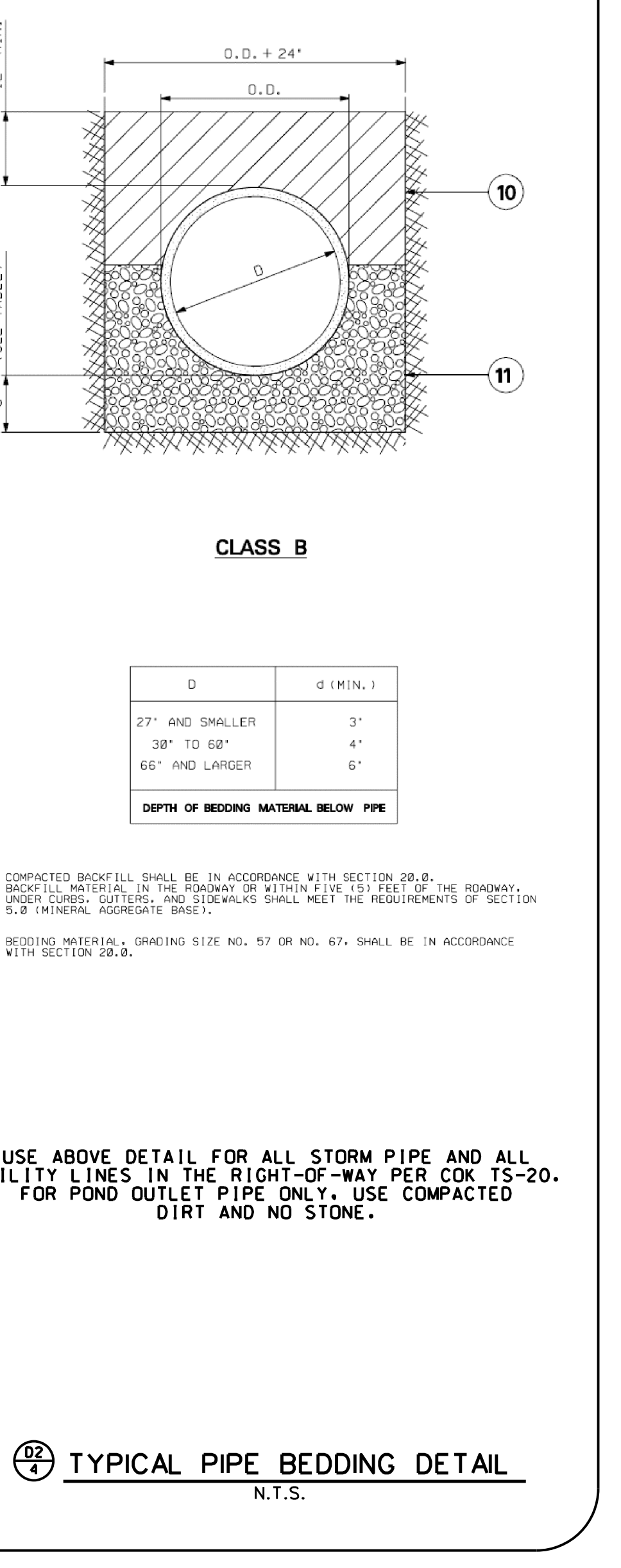
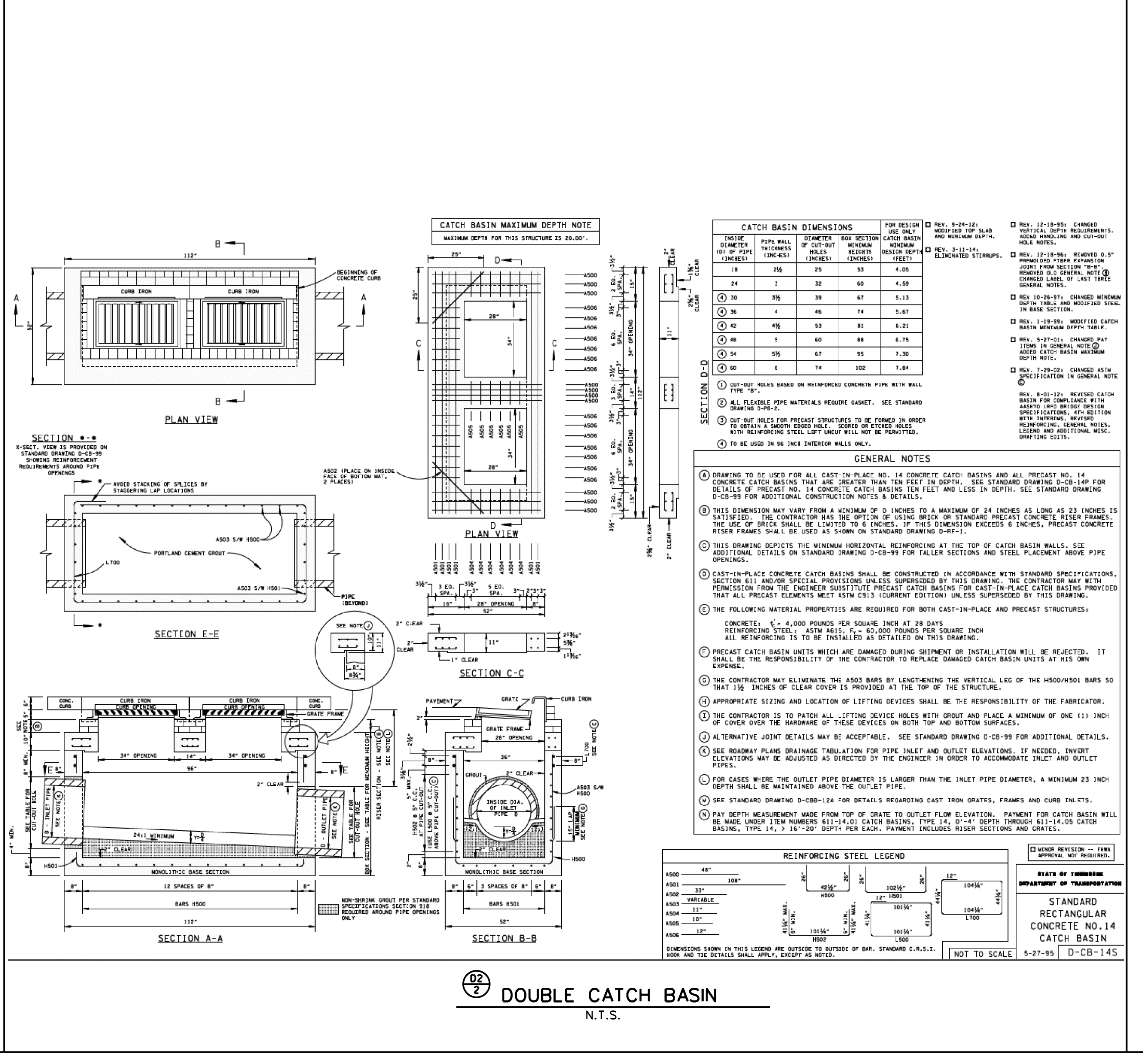
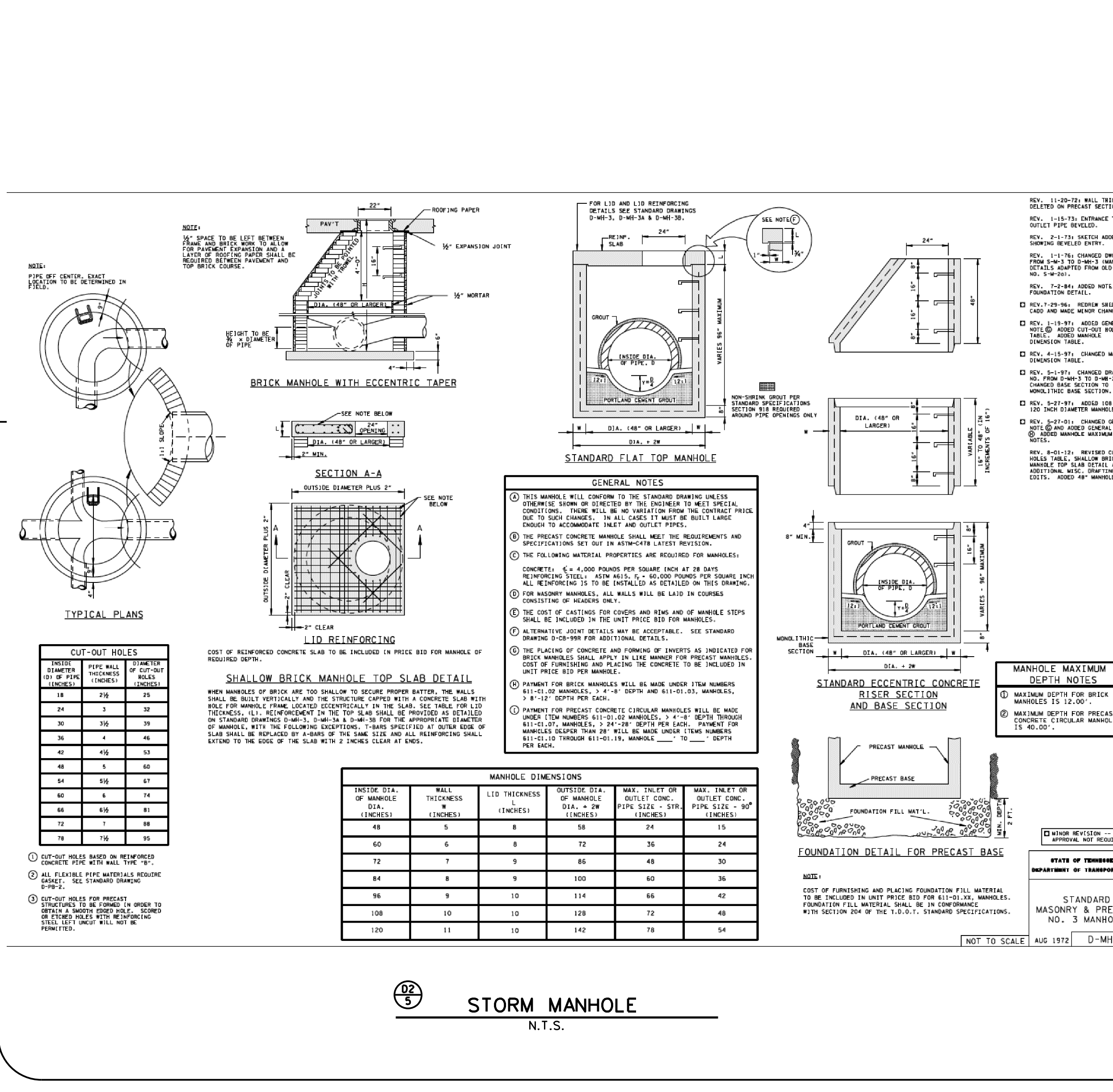
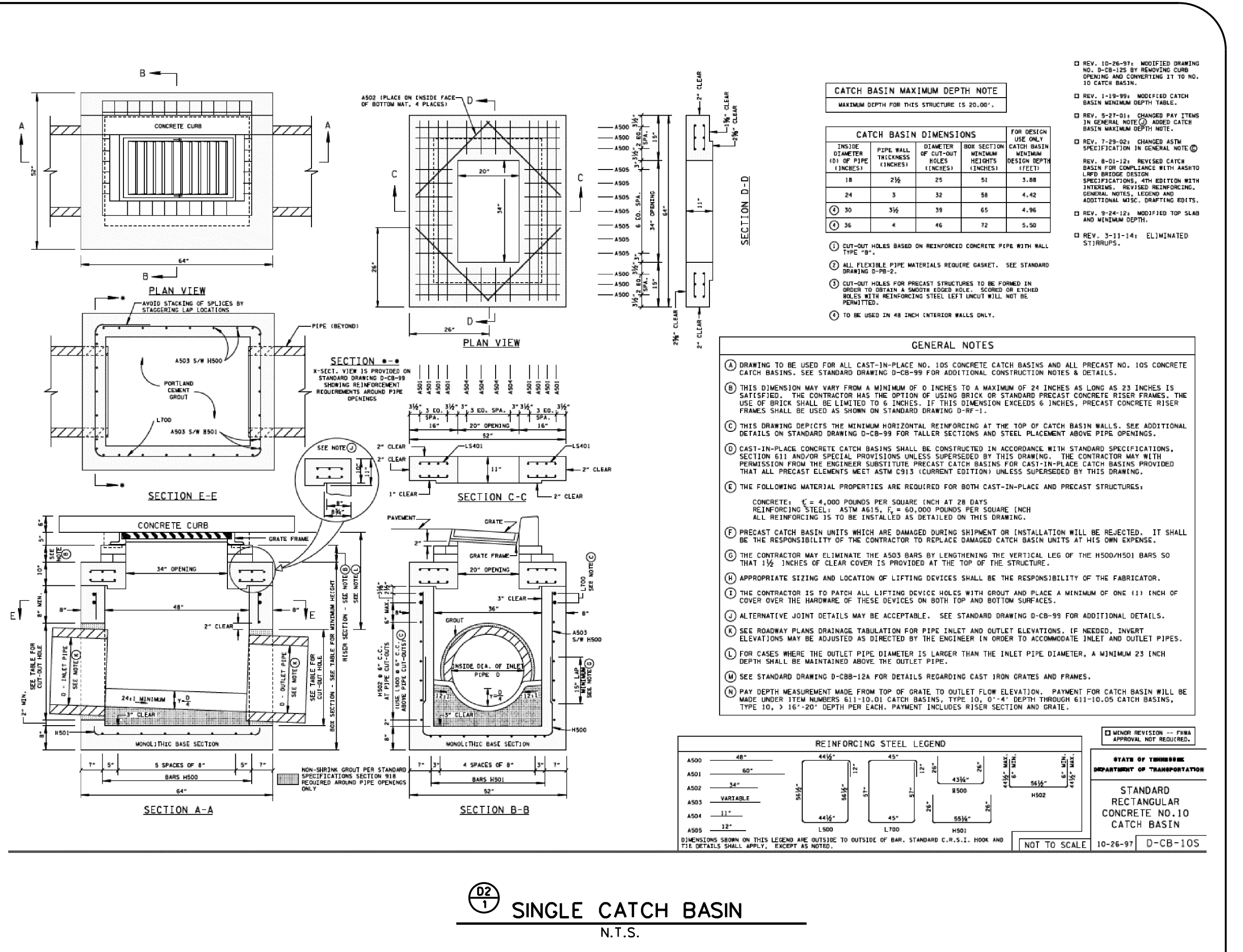
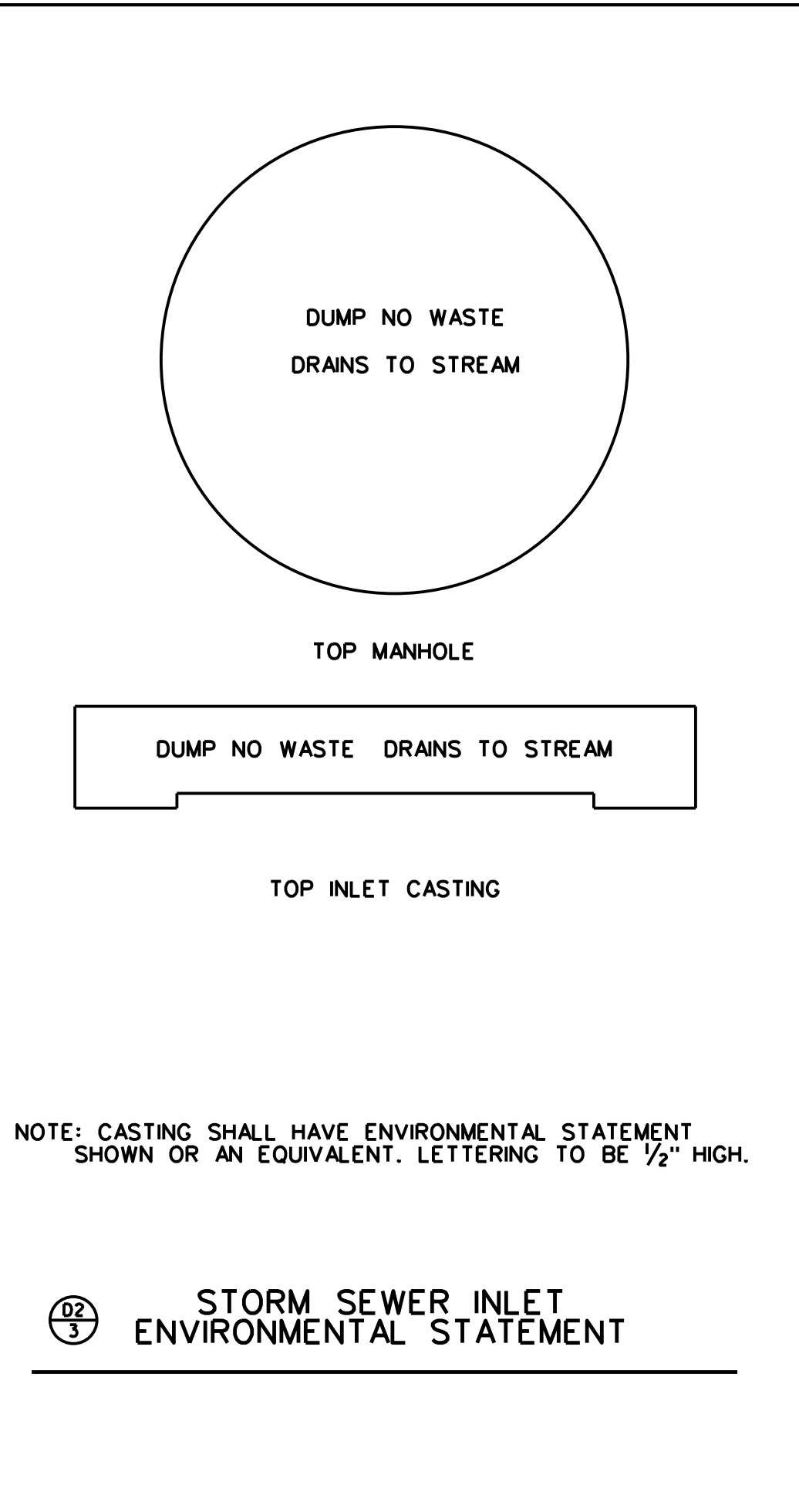
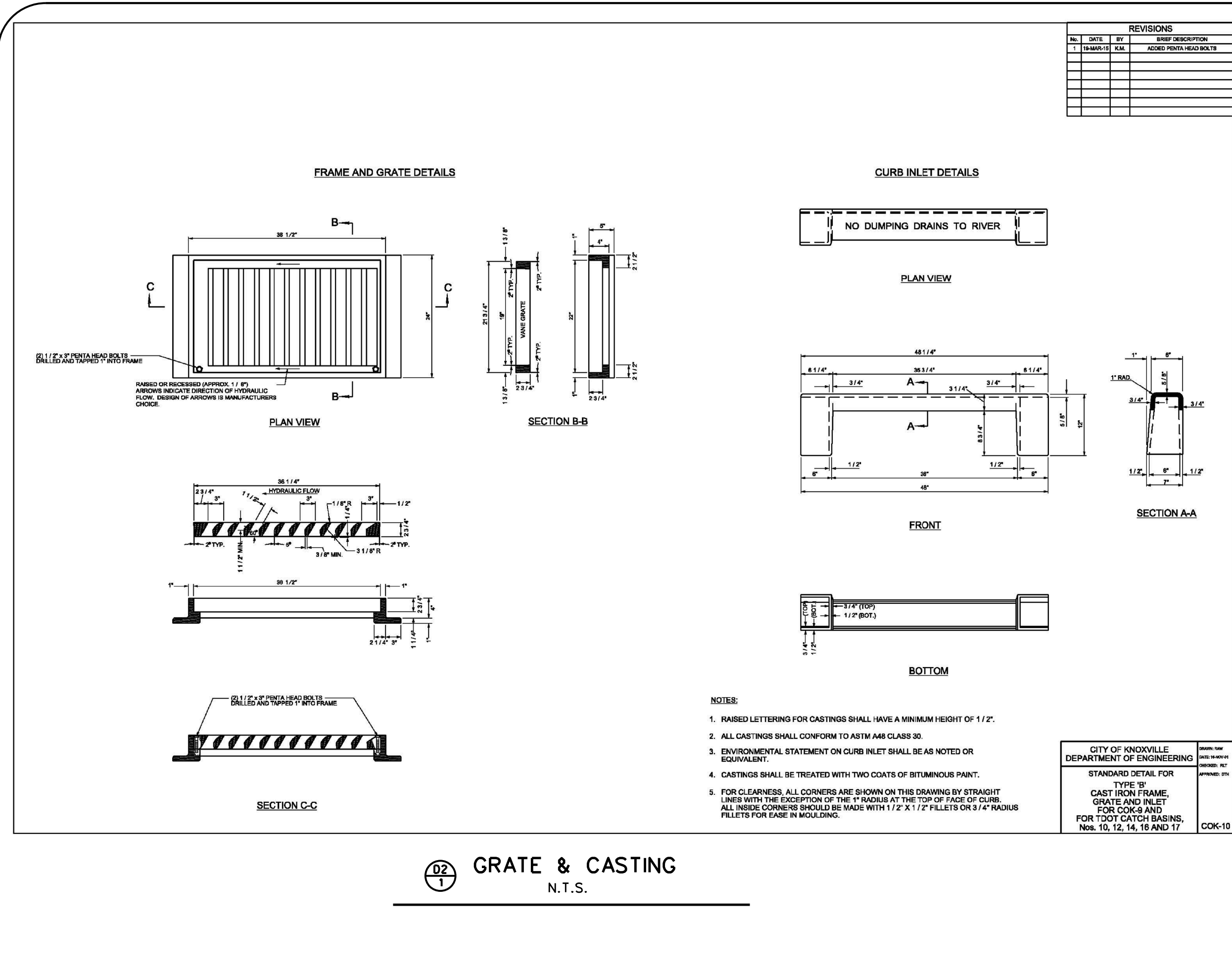
PLEASANT VILLAGE S/D
5934 PLEASANT RIDGE ROAD
KNOXVILLE, TN 37912
CLT MAP 080 H A PARCELS 26-01 & 28-02
WARD 40 CITY BLOCK 40700



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ORIGINAL ISSUE:
SEP. 1, 2017
SHEET NO.
D1
JOB NO. 1738



REVISIONS

NO.	DATE	DESCRIPTION
1	11/27/21	CITY COMM.

SITE DETAILS

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KNOXVILLE, TN 37912
KNOXVILLE, TN PARCELS 26-01 & 28-02
CLT MAP 080 H A PARCELS 26-01 & 28-02
WARD 40 CITY BLOCK 40700



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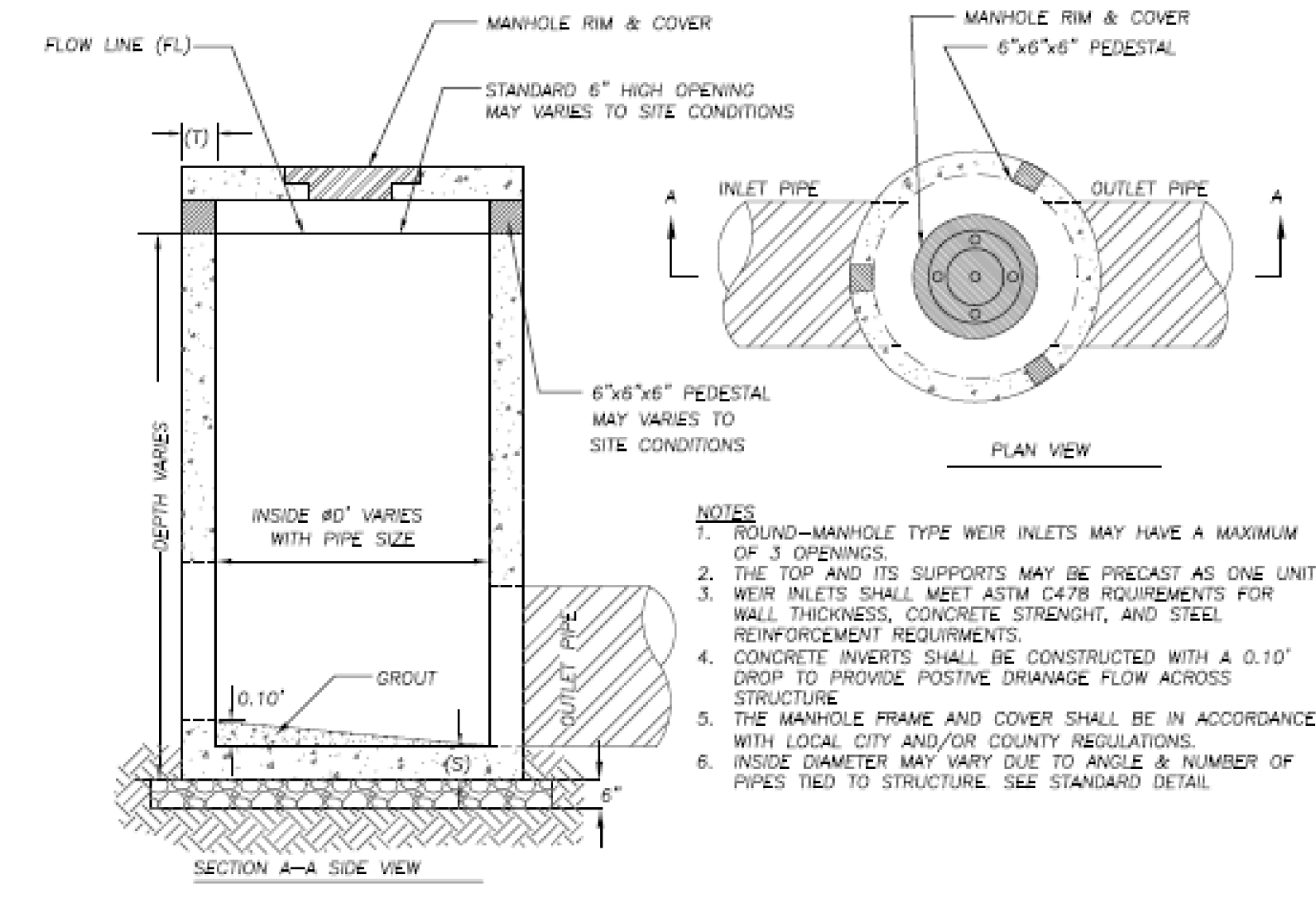
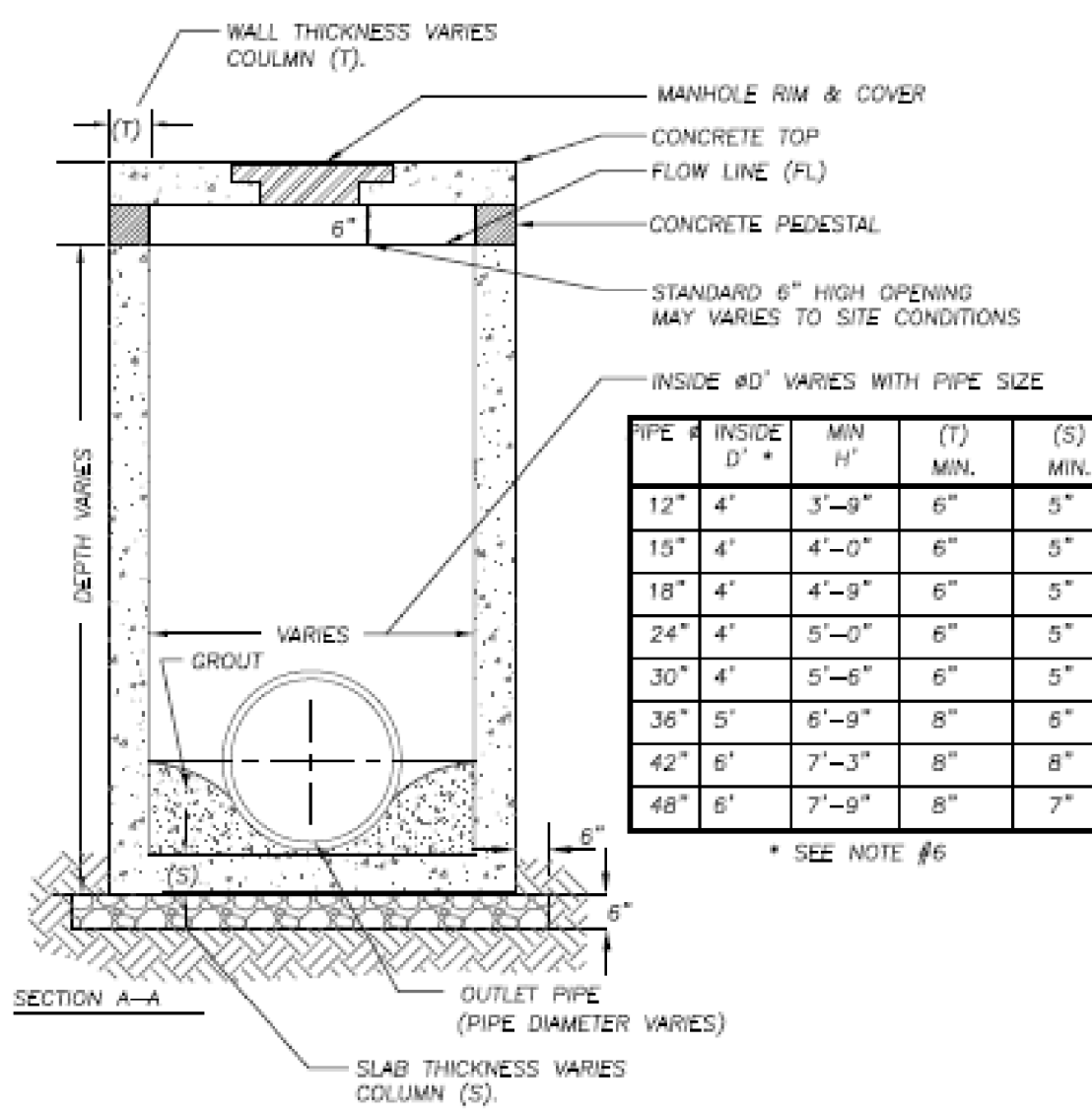
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Knoxville, TN 37912
616-407-8930
E-Mail: wscottwilliams@comcast.net

CLIENT: ERIC CHEN

ORIGINAL ISSUE: SEP. 1, 2017

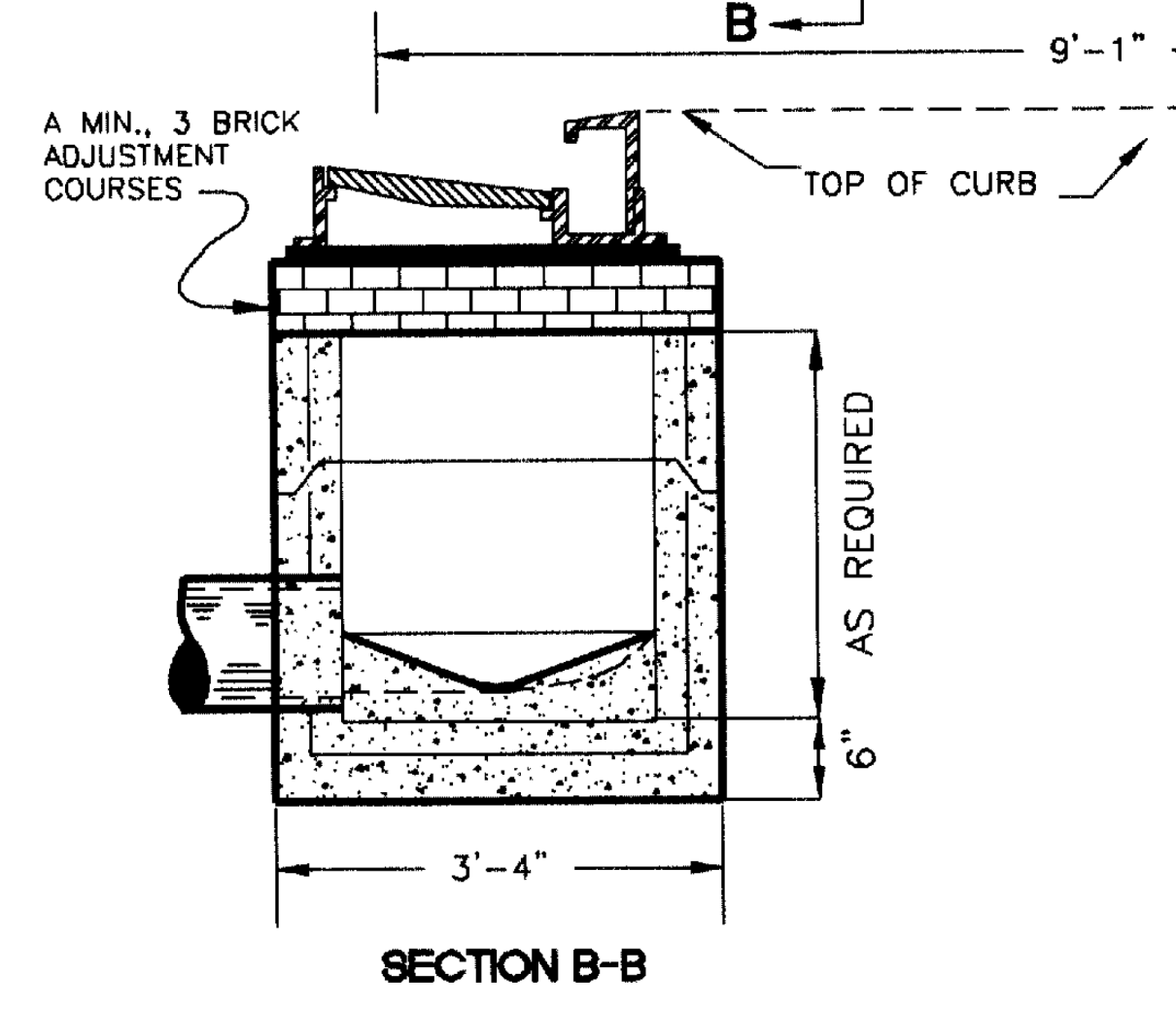
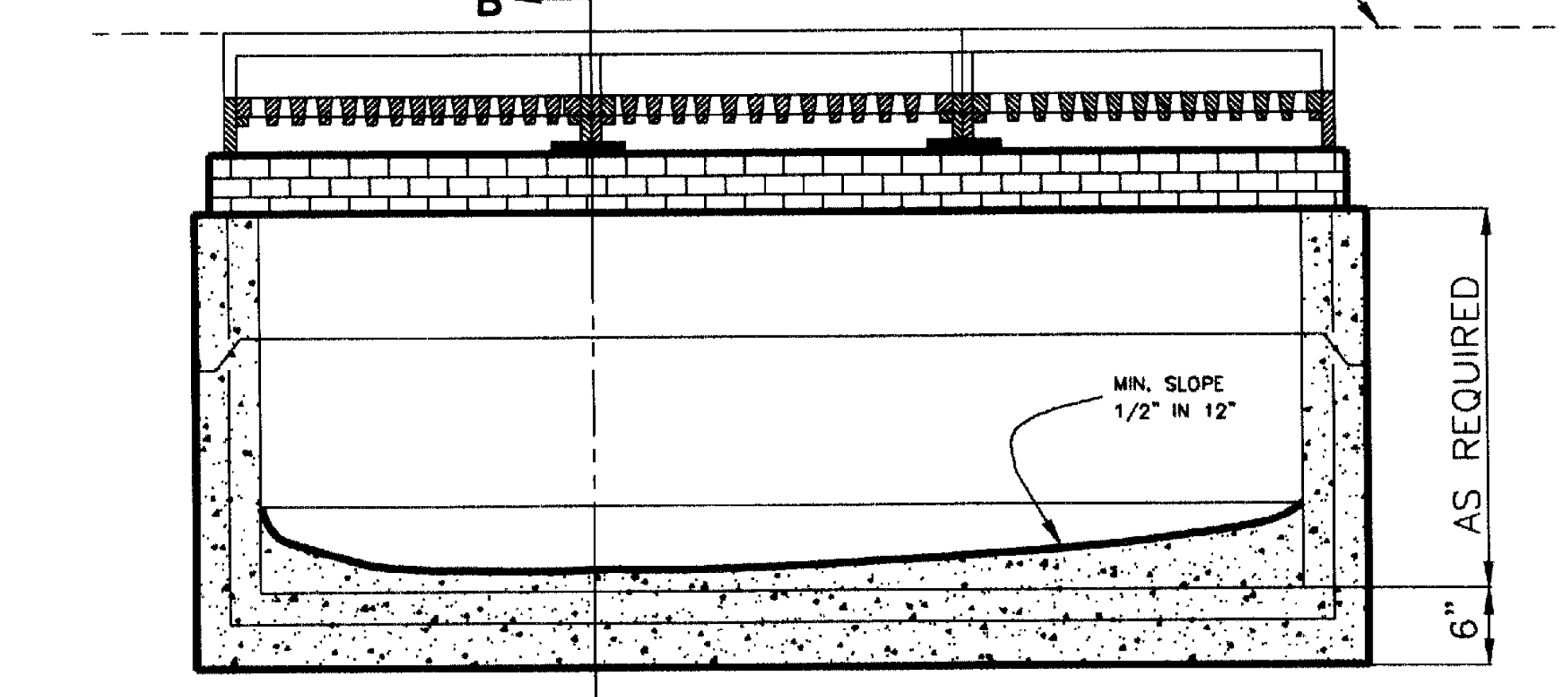
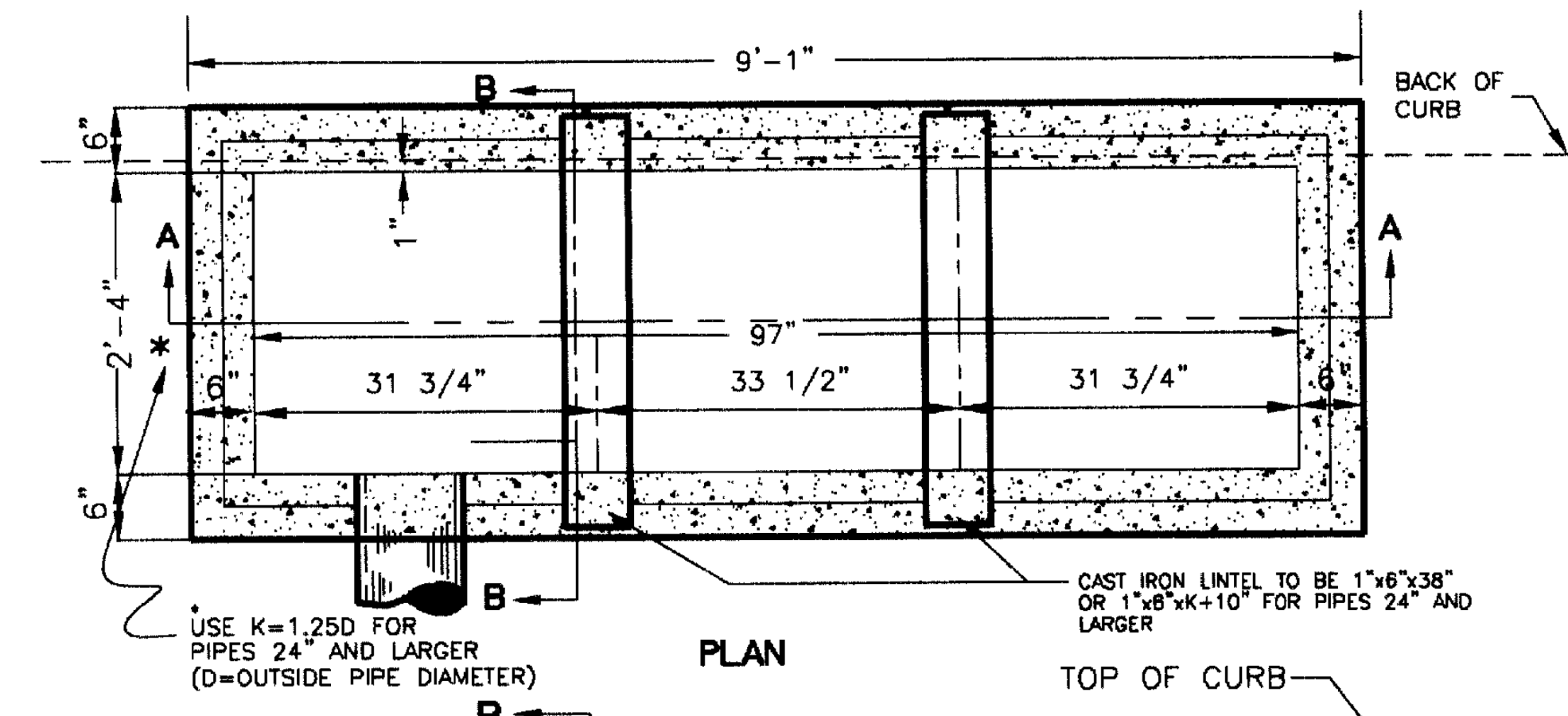
SHEET NO. D2

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- NOTES
1. ROUND-MANHOLE TYPE WEIR INLETS MAY HAVE A MAXIMUM OF 3 OPENINGS.
 2. THE TOP AND ITS SUPPORTS MAY BE PRECAST AS ONE UNIT.
 3. WEIR INLETS SHALL MEET ASTM C478 REQUIREMENTS FOR WALL THICKNESS, CONCRETE STRENGTH, AND STEEL REINFORCEMENT REQUIREMENTS.
 4. CONCRETE INVERTS SHALL BE CONSTRUCTED WITH A 0.10" DROP TO PROVIDE POSITIVE DRAINAGE FLOW ACROSS STRUCTURE.
 5. THE MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH LOCAL CITY AND/OR COUNTY REGULATIONS.
 6. INSIDE DIAMETER MAY VARY DUE TO ANGLE & NUMBER OF PIPES TIED TO STRUCTURE. SEE STANDARD DETAIL.

02/2 AREA DRAIN
N.T.S.



CONCRETE: 4000 PSI AT 28 DAYS
MIN. REINFORCEMENT: 0.14 SQ. IN./SQ. FT.
GRADE 60 STEEL.

NOT TO SCALE

03/1 TRIPLE CURB INLET CATCH BASIN
N.T.S.

NO.	DATE	DESCRIPTION
1	10/30/17	CITY COMM.
2	11/12/21	CITY COMM.

SITE DETAILS

PLEASANT VILLAGE S/D

5934 PLEASANT RIDGE ROAD
KNOXVILLE, TN 37912
CLT MAP 080 H A PARCELS 28-01 & 28-02
WARD 40 CITY BLOCK 40700



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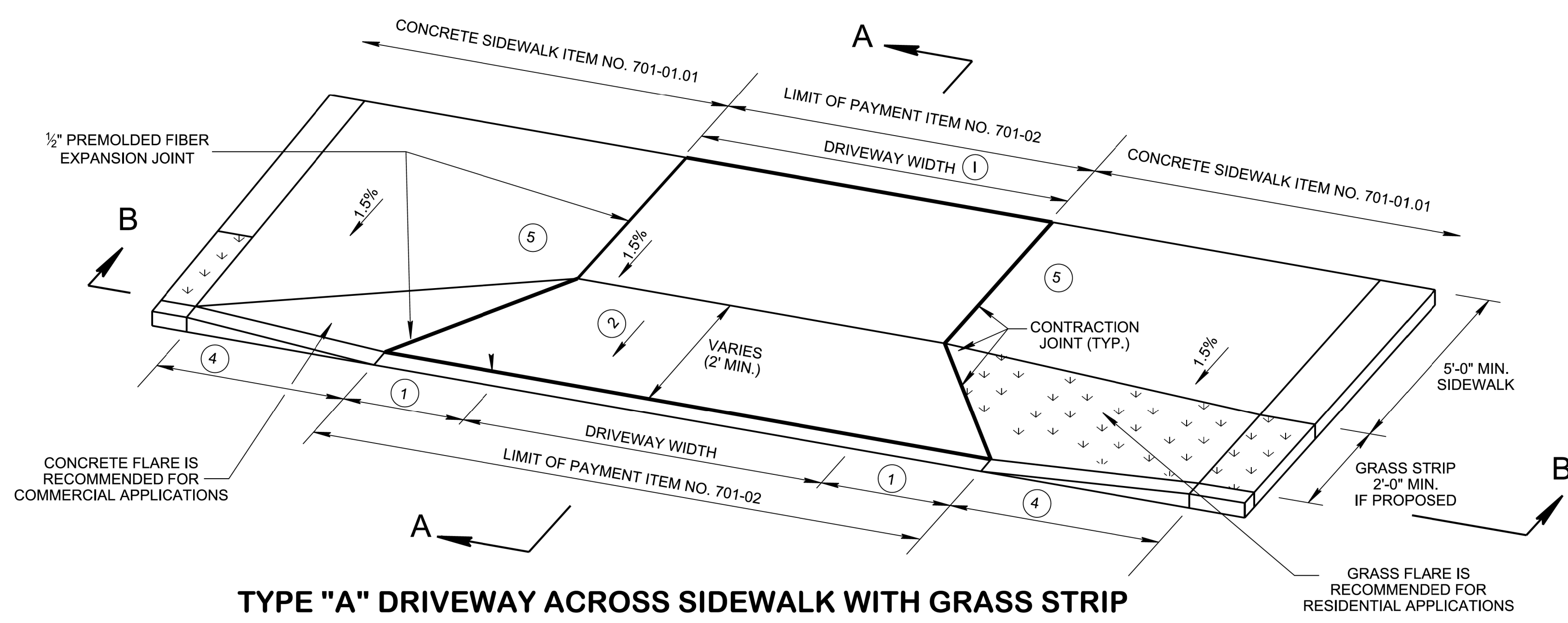
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SEP. 1, 2017

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D3

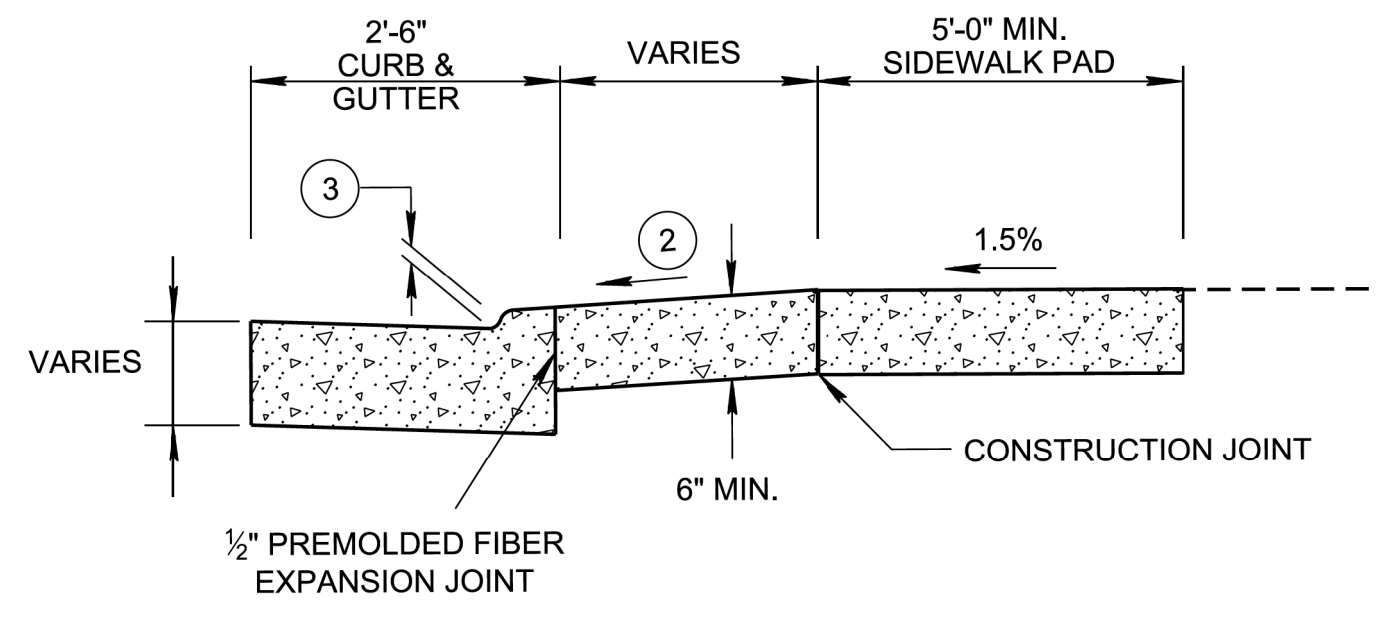
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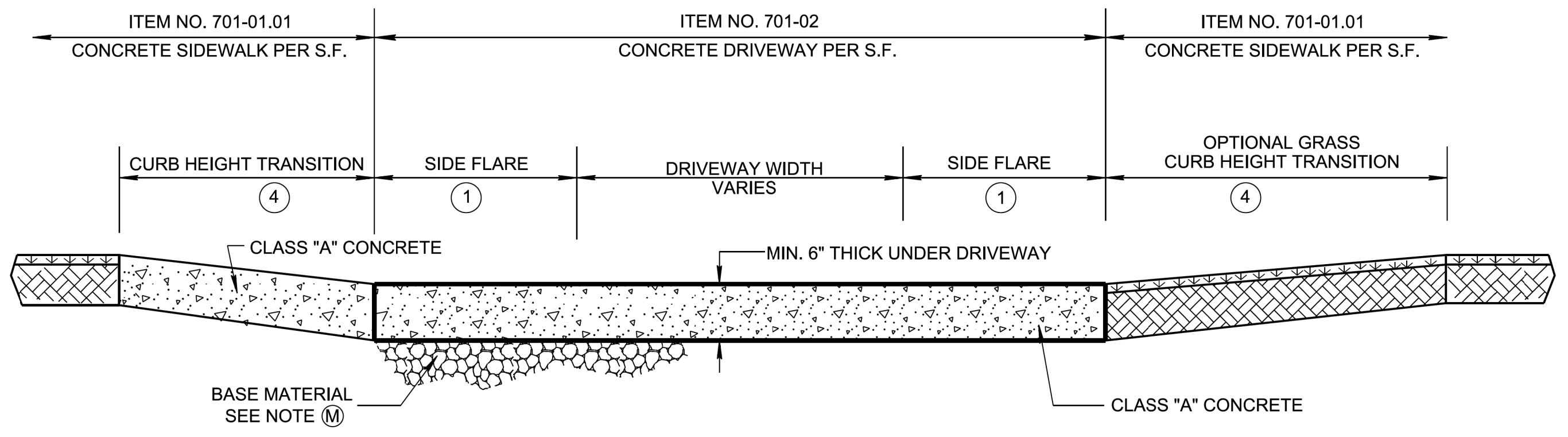


TYPE "A" DRIVEWAY ACROSS SIDEWALK WITH GRASS STRIP

LEGEND
 ✖ DIMENSION VARIES RELATIVE TO LONGITUDINAL ROADWAY GRADE.



SECTION A-A



SECTION B-B

- REV. 7-15-08: UPDATED SIDEWALK DIMENSIONS.
- REV. 4-8-16: ADDED ITEM NUMBERS, UPDATED SLOPES AND DIMENSIONS, UPDATED NOTES.
- REV. 07-16-18: ADDED NOTES TO CONC. FLARE AND GRASS FLARE IN ISOMETRIC VIEW. ADDED GENERAL NOTE (K) CHANGED REFERENCED STD. DWG. FROM RP-NMC-10 TO RP-VC-10. ADDED NOTE (A) AND RENUMBERED THE REST. ADDED SPECIAL NOTE. REDREW SHEET.
- REV. 01-07-19: CORRECTED SPELLING. REDREW SHEET.
- REV. 10-16-20: ADDED GENERAL NOTE (M) ADDED MINERAL AGGREGATE ITEM NUMBER AND REFERENCE NOTE ON SECTION B-B.

FOOTNOTES

- (1) SIDE FLARE WIDTH SHOULD BE A MINIMUM 7'-0" FOR COMMERCIAL DRIVEWAYS. SIDE FLARE WIDTH SHOULD BE A MINIMUM 3'-6" FOR RESIDENTIAL DRIVEWAYS.
- (2) DRIVEWAY RAMP GRADE VARIES, 15% MAX. (10% RECOMMENDED) APRON GRADE FOR RESIDENTIAL DRIVEWAYS. 8% MAX. (5% RECOMMENDED) APRON GRADE FOR COMMERCIAL DRIVEWAYS.
- (3) HEIGHT OF LOWERED CURB SHALL BE 2.25 INCHES. SEE STD DWG RP-VC-10 & RP-VC-11.
- (4) THE SLOPE OF THE SIDEWALK AND/OR CURB HEIGHT TRANSITION VARIES TO A MAXIMUM OF 8.33% LENGTH OF TRANSITION IS RELATIVE TO THE LONGITUDINAL ROADWAY GRADE.
- (5) COMMERCIAL DRIVEWAY ENTRANCE TYPICALLY (MAX. 40' WIDE) MAY REQUIRE DETECTABLE WARNING SURFACES IF ENTRANCE SERVES MORE THAN 400 VEHICLES PER DAY. SEE STD. DWG. NOS. MM-CR- SERIES FOR DETAILS.
- (6) 3R PROJECTS MAY REQUIRE SLOPE CORRECTION, PARALLEL CROSS-WALK MARKINGS (ESPECIALLY AT TWO WAY DRIVEWAY ENTRANCES), AND DETECTABLE DOME SURFACE TO MAINTAIN CONTINUITY AT COMMERCIAL DRIVE ENTRANCES. ADDITIONAL SIGNS (WATCH FOR PED) MAY BE ADDED AT DRIVEWAYS BY THE DIRECTION OF AN ENGINEER IF NEEDED.

GENERAL NOTES

- (A) THIS TYPE OF DRIVEWAY IS PREFERRED OVER THE LOWERED TYPE AS SHOWN ON RP-D-16 BECAUSE THE ELEVATION OF THE SIDEWALK REMAINS A CONSTANT FOR PEDESTRIANS.
- (B) 5'-0" MINIMUM SIDEWALK WITH A MAXIMUM CROSS SLOPE OF 1.5% THROUGH DRIVEWAYS.
- (C) DESIGNER TO CHECK GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOW DOES NOT OVERTOP THE SIDEWALK AREA. IF OVERTOPPING OCCURS, PLACE AN INLET AT THE UPSTREAM SIDE OF THE DRIVEWAY OR PERFORM OTHER DESIGN MITIGATION.
- (D) THE SLOPE OF THE LANDING AREA SHALL NOT EXCEED 1.5% IN THE SIDEWALK AREA.
- (E) DRIVEWAYS TO BE BUILT COMPLETE OR IN PART AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- (F) ALL DRIVEWAYS TO BE 6" UNIFORM THICKNESS, UNLESS OTHERWISE SHOWN ON PLANS.
- (G) EXPANSION JOINTS TO BE PLACED AS INDICATED ON THE PLANS EXCEPT JOINT AT BACK OF DRIVEWAY WHICH WILL BE PLACED WHEN DRIVEWAY ABUTS A RIGID DRIVEWAY OR BUILDING.
- (H) THE ROADWAY DESIGNER SHALL CONSIDER THE USE OF A CATCH BASIN ON EITHER SIDE OF THE DRIVEWAY. CAREFUL CONSIDERATION TO THE PLACEMENT OF CATCH BASINS SHALL BE TAKEN IF THE DRIVEWAY IS IN A VERTICAL SAG CURVE.
- (I) PAY ITEMS:
 ITEM NO: 303-01, MINERAL AGGREGATE, TYPE A BASE, GRADING D, PER TON.,
 ITEM NO: 701-02, CONCRETE DRIVEWAY, PER SF.
- (J) TYPICAL DRIVEWAY WIDTHS ARE 12' (14" TWO WAY) FOR RESIDENTIAL AND 24' (40" MAX.) FOR COMMERCIAL.
- (K) REFER TO SECTION 5.1.3. IN THE RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAY ENTRANCES ON STATE HIGHWAY RIGHTS-OF-WAY (2015) FOR RADIUS OF CURVATURE GUIDANCE.
- (L) ALL SIDEWALKS SHALL BE A MINIMUM THICKNESS OF 6" CONCRETE.
- (M) 4 INCH AGGREGATE BASE MATERIAL SHALL BE INSTALLED UNDER NEW CONCRETE DRIVEWAYS.

APPROVED BY FHWA (ALL OTHERS APPROVED BY TDOT)

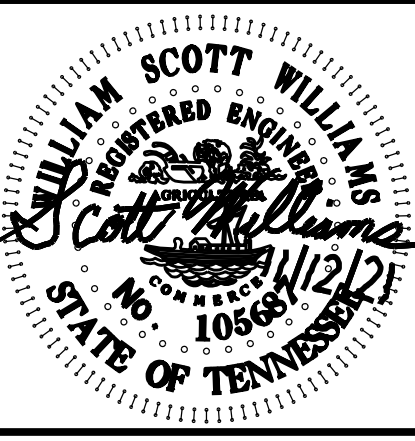
STATE OF TENNESSEE
 STANDARD DRAWING
 DEPARTMENT OF TRANSPORTATION

DETAILS OF
 STANDARD
 CONCRETE
 DRIVEWAYS

02-15-2007 RP-D-15

NO.	DATE	DESCRIPTION
1	11/12/21	CITY COMM.

SITE DETAILS
 PLEASANT VILLAGE S/D
 5934 PLEASANT RIDGE ROAD
 KNOXVILLE, TENNESSEE 37912
 CLT MAP 080 H A PARCELS 28.01 & 28.02
 WARD 40 CITY BLOCK 40700



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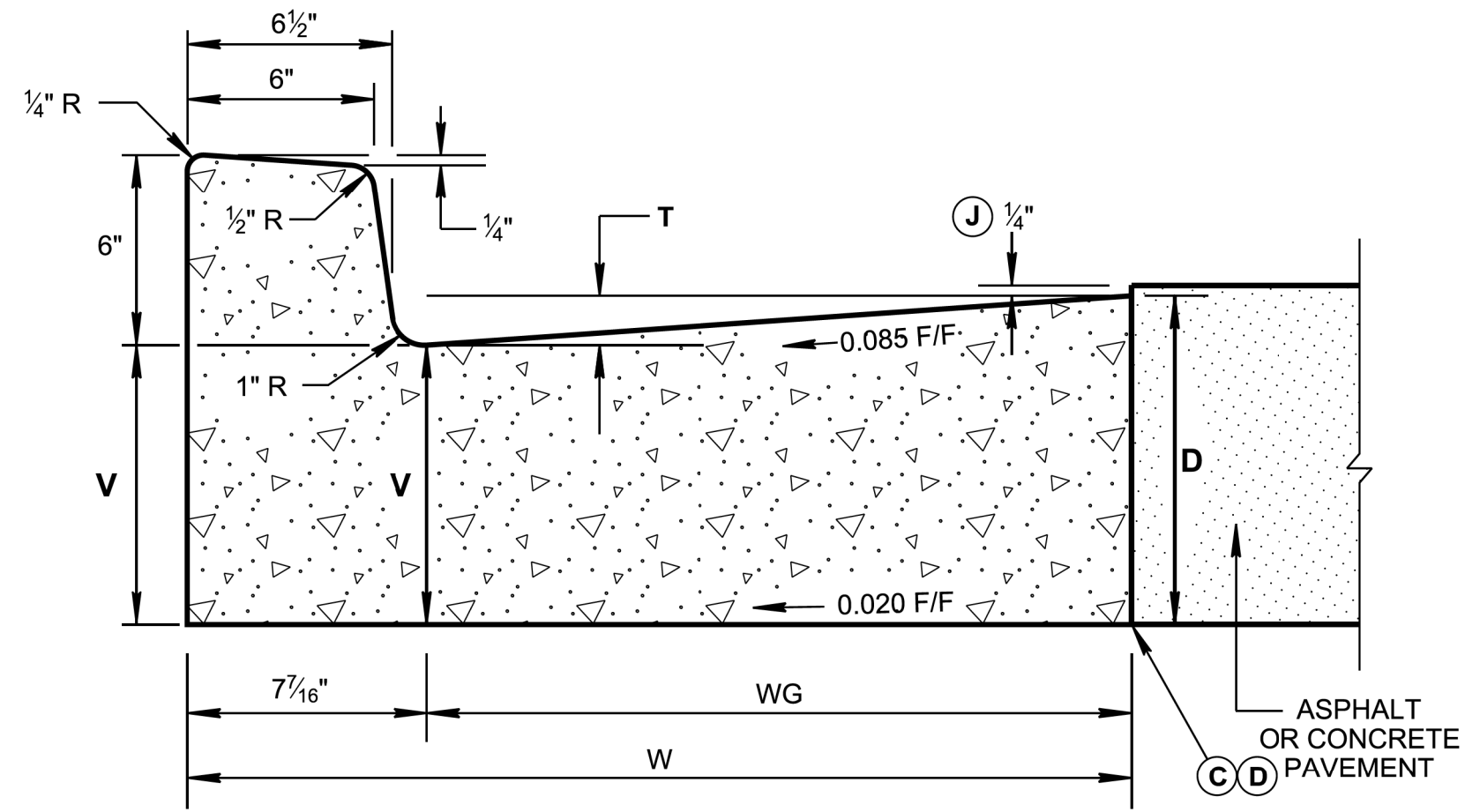
CLIENT:
ERIC CHEN
 5934 PLEASANT RIDGE RD
 KNOXVILLE, TN 37912
 606-401-0930

ORIGINAL ISSUE:
 SEP. 1, 2017

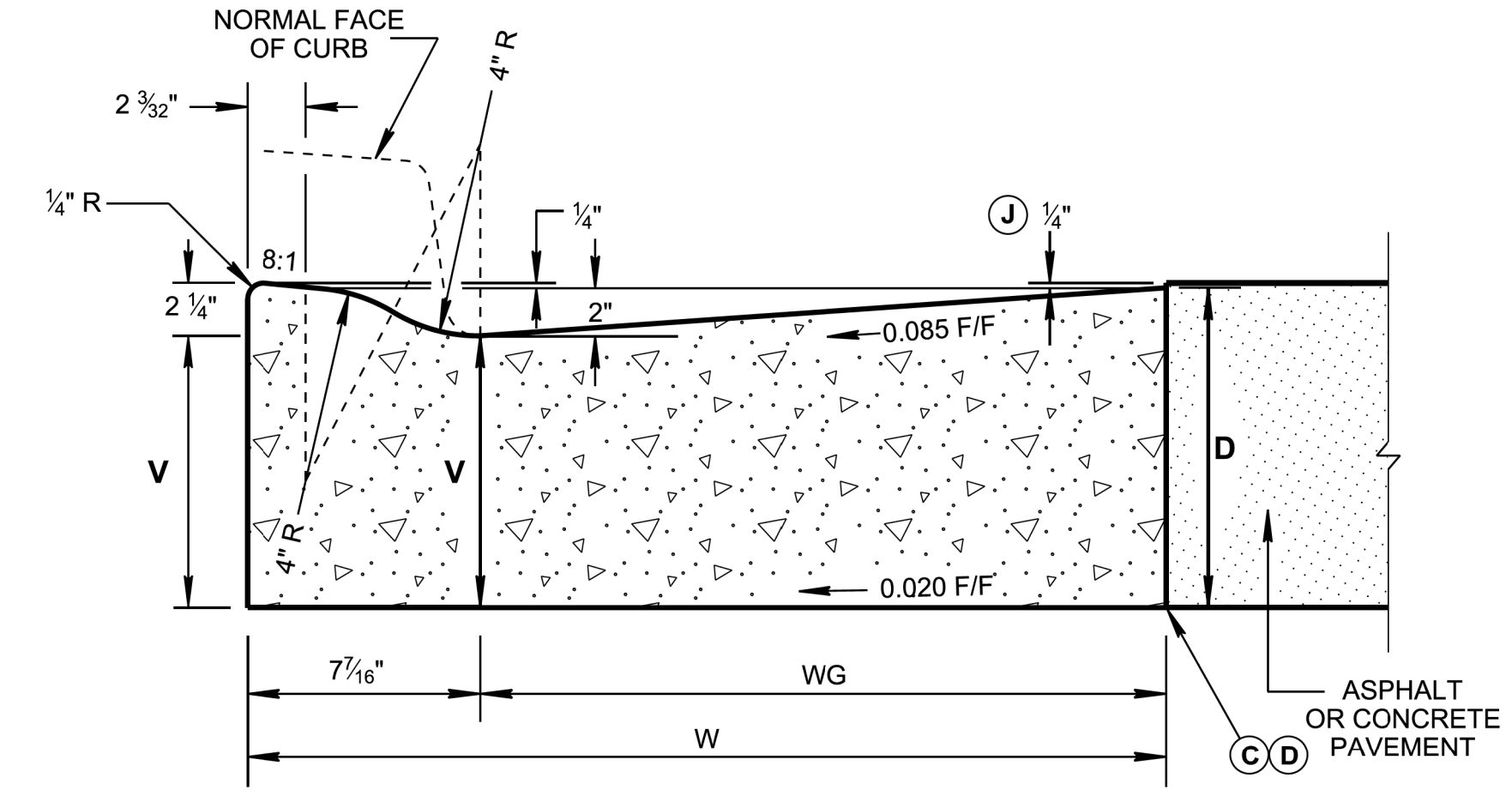
SHEET NO.
D4

JOB NO. 1738

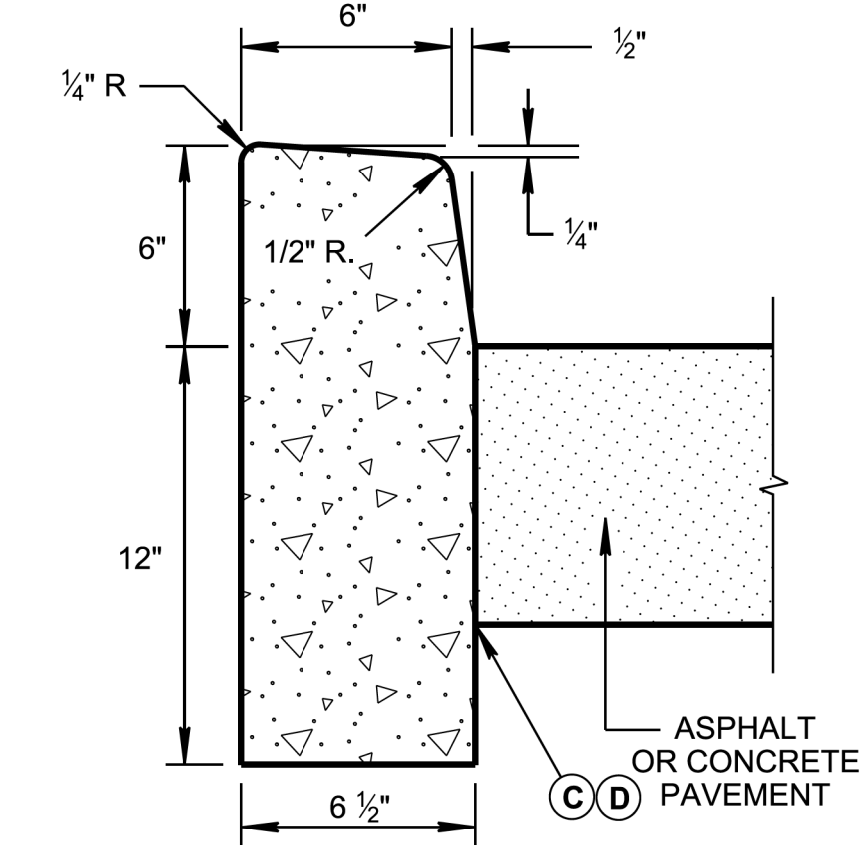
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6" CONCRETE CURB AND GUTTER
(PAY ITEM NO. 702-03)



LOWERED CONCRETE CURB AND GUTTER
(PAY ITEM NO. 702-03)



6" DETACHED CONCRETE CURB
(PAY ITEM NO. 702-01)

CONCRETE CURB AND GUTTER TABLE				
TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (V) OF GUTTER AT FLOW LINE
6-30	30	22 9/16"	2	D - 1 17/32"
6-36	36	28 9/16"	2 1/2	D - 1 23/32"

✱ VERTICAL DEPTH (V) MUST ALWAYS EXCEED SIX (6) INCHES.

QUANTITIES FOR DETACHED CURB	
HEIGHT OF CURB	CUBIC YARD PER LINEAR FOOT
6"	0.02950
LOWERED CURB	0.02534

QUANTITIES FOR CURB AND GUTTER			
DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	6" CONCRETE CURB AND GUTTER (CY/LF)	LOWERED CONCRETE CURB AND GUTTER (CY/LF)
8	30	0.06409	0.05711
	36	0.07780	0.07085
9	30	0.07181	0.06483
	36	0.08706	0.08011
10	30	0.07953	0.07254
	36	0.09632	0.08934
11	30	0.08724	0.08026
	36	0.10558	0.09860
12	30	0.09496	0.08799
	36	0.11484	0.10786

LEGEND	
D	= VERTICAL DEPTH OF GUTTER (IS BASED ON PAVEMENT DESIGN)
T	= VERTICAL DROP IN GUTTER FROM FRONT EDGE TO FACE OF CURB
V	= VERTICAL DEPTH OF GUTTER AT FLOW LINE
W	= TOTAL WIDTH OF COMBINED CURB AND GUTTER
WG	= WIDTH OF GUTTER

GENERAL NOTES

(A) FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 702 - CEMENT CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER.

(B) THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.

(C) CONCRETE EXPANSION JOINT MATERIAL IS TO BE 1/2" IN THICKNESS AT ALL LOCATIONS. ALL MATERIAL IS TO BE PRE-MOLDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.

(D) EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS:
 1. AT TANGENT POINTS OF CIRCULAR CURBS.
 2. BETWEEN CURBS AND ABUTTING RIGID OBJECTS.
 3. AT OTHER PLACES WHERE STRESSES MAY DEVELOP.
 4. TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE.
 5. THE MAXIMUM SPACING IS TO BE 100 FEET.
 6. BETWEEN CONCRETE CURBS OR CURB AND GUTTERS AND CONCRETE PAVEMENT. IT IS NOT REQUIRED WHEN CURBS OR CURB AND GUTTERS ARE ADJACENT TO ASPHALT.

(E) CONTRACTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.

(F) EDGES OF JOINTS SHALL BE FINISHED ON 1/4" RADII.

(G) ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.

(H) THE UNIT PRICE BID FOR CONCRETE CURB, CONCRETE CURB AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.

(I) PAYMENT WILL BE AS FOLLOWS:
 ITEM NO. 702-01, CONCRETE CURB, PER C.Y.
 ITEM NO. 702-03, CONCRETE COMBINED CURB AND GUTTER, PER C.Y.

(J) THE 1/4" HEIGHT IS FOR WHEN ASPHALT PAVEMENT IS ADJACENT TO CONCRETE CURB AND GUTTER ONLY. CONCRETE PAVEMENT WILL BE FLUSH WITH THE TOP OF THE GUTTER.

LOWERED CONCRETE CURB NOTES

(K) TO BE BUILT AS COMBINED CURB AND GUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

(L) FOR DETACHED CURB, OMIT RADIUS AT FLOW LINE.

(M) TO BE USED FOR PROPOSED RAMP OPENINGS.

REV. 06-28-19: REVISED DETAILS FOR LOWERED CONCRETE CURB, 6" DETACHED CONCRETE CURB AND 6" CONCRETE COMBINED CURB AND GUTTER. GENERAL NOTES: REVISED NOTES (C) AND (D). ADDED NOTE (J), MOVED LOWERED CONCRETE CURB NOTES TO NOTE NOS. (K), (L) & (M). ADJUSTED WIDTH OF GUTTER (WG) DIMENSIONS. REDREW SHEET.

REV. 03-04-21: REVISED THE DESCRIPTION OF THE STANDARD DRAWING. REMOVED TYPE 6-45 FROM THE DRAWING AND REVISED TABLES. REMOVED "COMBINED" FROM THE TITLE AND FROM THE TABLES. ADDED PAY ITEM NO. ON THE DRAWINGS.

(Replaced Std Dwg RP-NMC-10)

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

VERTICAL CONCRETE CURB AND GUTTER
(FOR 8" TO 12" GUTTER DEPTH)

05-15-2018 RP-VC-10

NOT TO SCALE

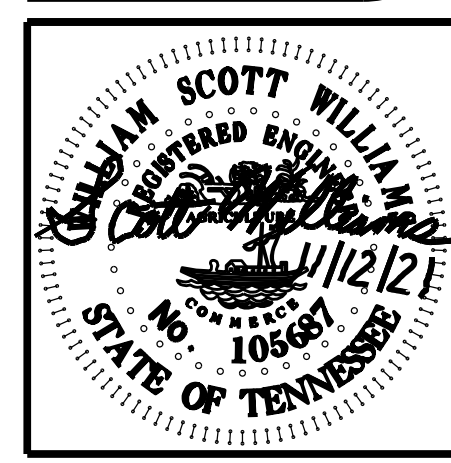
LOWERED CONCRETE CURB DETAIL

REVISIONS	
NO.	DATE DESCRIPTION

SITE DETAILS

PLEASANT VILLAGE S/D

5934 PLEASANT RIDGE ROAD
KNOXVILLE, TENNESSEE 37912
CLT MAP 080 H A PARCELS 28.01 & 28.02
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