FINAL PUD

CASE NO. 84-87P-004

LKQ OFFICE AT THE CROSSINGS

NASHVILLE, DAVIDSON COUNTY, TENNESSEE

LEA PROJECT NO. 514717001
04/05/2017

SITE DATA

COUNCIL DISTRICT:	32
COUNCIL MEMBER:	JACOBIA DOWELL
PARCEL ID.:	TAX MAP 174, PARCEL 176
SITE ADDRESS:	5846 CROSSINGS BOULEVARD ANTIOCH, TENNESSEE 37013
SITE ACREAGE:	13.89 AC. (605,041 FT^2)
EXISTING ZONING:	COMMERCIAL PUD (R10 BASE ZONING)
PUD NUMBER:	84-87P-004
PROPOSED USE:	LKQ CORPORATE OFFICE
PROPOSED MAX. BUILDING HEIGHT	2 STORIES 36'-6" TO PARAPET 43'-6 ½" TO TOP OF MECH. SCREEN
ALLOWED MAX. BUILDING HEIGHT:	2 STORIES
PROPOSED BUILDING S.F.	103,955 SF
IMPERVIOUS SURFACE AREA	
BUILDINGS:	?? AC. (?? FT^2)
DRIVES/SIDEWALKS:	?? AC. (?? FT^2)
TOTAL PROPOSED IMPERVIOUS AREA:	?? AC. (?? FT^2)
PROPOSED ISR:	0.67
ALLOWED ISR:	N/A
PARKING SUMMARY	
PARKING REQUIRED: (PARKING REQUIREMENTS)	347 SPACES REQUIRED (1 SPACE PER 300 SF)
PARKING PROVIDED:	600 STANDARD SPACES 13 ACCESSIBLE SPACES 613 TOTAL PARKING SPACES
OWNER:	KP NASHVILLE, LLC
ADDRESS:	8025 FORSYTH BOULEVARD ST. LOUIS, MISSOURI 63105
PHONE NO.:	314-261-7352
CONTACT NAME:	SCOTT HALEY
CONTACT E-MAIL ADDRESS:	SHALEY@KPSTL.COM
PROJECT REPRESENTATIVE:	LITTLEJOHN--A DIVISION OF S&ME
ADDRESS:	1935 21ST AVENUE SOUTH NASHVILLE, TENNESSEE 37212
PHONE NO.:	615-385-4144
CONTACT NAME:	ANDREW WOLTHERS, P.E.
CONTACT E-MAIL ADDRESS:	AWOLTHERS@SMEINC.COM

RECORDED DOCUMENTS: DEED BOOK 20030919 PAGE 0139281

FEMA PANEL:
THE SUBJECT PROPERTY LIES WITHIN **ZONE "X" UNSHADED** ACCORDING TO COMMUNITY PANEL NO. 47037C0392H, 04/05/2017, COMMUNITY NAME: METROPOLITAN GOVERNMENT OF NASHVILLE-DAVIDSON COUNTY.

THE CROSSINGS PRELIMINARY COMMERCIAL PUD – NORTH OF OLD FRANKLIN ROAD

PARCEL	USE	ACREAGE	PRELIM. PUD APPROVED S.F.	CURRENT APPROVED/ CONSTRUCTED S.F.	AVAILABLE S.F.	PARKING	FAR	FLOORS	
1	CONVENIENCE/FUEL	1.75	11,000	4,700	4,700	19	.14	1	
2	WENDY'S	1.70	*	4,000		68	.05	1	
3A	COMMERCIAL	1.00	*	3,500		45	.08	1	
3B	COMMERCIAL	1.85	*	40,000		102	.49	5	
3C	COMMERCIAL	3.10	*	70,000		140	.51	2	(4) (NAME ONLY)
4	COMMERCIAL	9.32	*	68,530		343	.17	1	
5	COMMERCIAL	4.94	*	53,500		227	.25	2	(4)
6	COMMERCIAL	14.30	*	160,000		342	.25	1	
7	COMMERCIAL	9.00	*	90,000		316	.25	1	(4) (4)
~~8~~	~~COMMERCIAL~~	~~5.60~~	50,000	N/A	50,000	~~167~~	~~.09~~	1&2	(4) (4)
9	COMMERCIAL	4.18	*	27,959		96	.15	1	
10	POST OFFICE	3.65	*	18,750		300	.12	1	
11	PAIN MANAGEMENT	2.78	*	25,629		144	.27	1&2	(4) (4)
12	PAIN MANAGEMENT	2.86	*	10,910		116	.09	2	
13A	NASHVILLE CDJR	5.83	*	32,035		82	.17	1	
13B	NASHVILLE CDJR	3.19	50,000	16,100	33,900	250	.36	1	(4) (4) (4)
14	COMMERCIAL	9.24	*	59,420		366	.15	1	
15	LKQ OFFICE	13.89	103,766**	150,000**	−46,234**	826		2**	
16	COMMERCIAL	14.00	*	152,460		743	.25	1	
17	ASURION	11.90	*	122,400		600	.24	1	
18A	BRAND IMAGING	3.00	85,861	35,900	49,961	118	.27	1	(4) (4) (4) (4) (4) (4)
18B	CHAMPION	2.51	*	24,000		57	.19	1	
19A	MAC PAPERS	19.93	178,800	120,650	58,150	924	.16	1	(4) (4) (4)
~~19B~~	~~COMMERCIAL~~	~~3.20~~	*	~~25,000~~		~~130~~	~~.15~~	1	
32	TENN. CHRIST. NET.	12.50	*	170,000		209	.31	2	
TOTAL		156.42		1,460,443	158,377	6,433	.22		
ROW		19.29							
OPEN SPACE		9.75							
TOTAL		189.68							

* DATA NOT FOUND. PREVIOUSLY APPROVED AND CURRENT APPROVED SQUARE FOOTAGE ASSUMED EQUAL.

** CURRENTLY PROPOSED IMPROVEMENTS TO USE PREVIOUSLY APPROVED, UNCONSTRUCTED SQUARE FOOTAGE FROM OTHER PARCELS.

* 59 SPACES DEFERRED PARKING

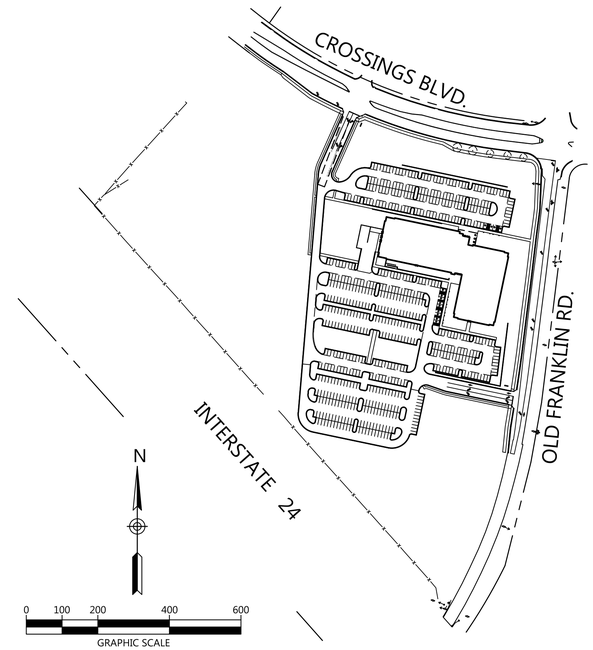
REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	12-18-81	PARCEL 10, 25, 9	19	08-01-02	PARCEL 11, 12 (4-NAME UPDATE)
2	12-20-90	PARCEL 17, 18, 19	20	03-13-03	PARCEL 15A & 15B
3	08-24-93	PARCEL 1, 2, 3	21	05-13-04	PARCEL 6, 7, 8, 9, 14, 19B
4	10-25-94	PARCEL 1, 2 – INGRESS/EGRESS	22	12-20-05	CROSSINGS CIRCLE REVISION
5	02-10-94	PARCEL 1, 2, 3	23	1-31-08	PARCEL 9 & 19B & CROSSINGS CIRCLE REVISION
6	03-16-95	PARCEL 1, 2, 3A, 3B, 3C			
7	04-20-95	RMB, SCHOOL SITE			
8	05-25-95	REMOVE SCHOOL/EASEMENTS			
9	06-15-95	TCI – PARCEL 32			
10	07-31-95	3A/3B – ENTRANCE CHANGE			
11	08-10-95	8, 9, 16, 25, – POST OFFICE			
12	02-06-97	PARCEL 13, 14, RE-WORK ROADS, REVISED SQ. FT. 2-12-97			
13	06-25-97	PARCEL SQ. FT. 5, 6, 7, 9, 12, 13, 14, 16, 17, 18, 19, 32			
14	07-09-95	PARCEL SQ. FT. 17, 18			
15	07-17-98	PARCEL 1			
16	06-22-99	PARCEL 18A & 18B			
17	04-27-00	PARCEL 18B, 13A, 13B			
18	04-27-00	PARCEL 19A, 19B			

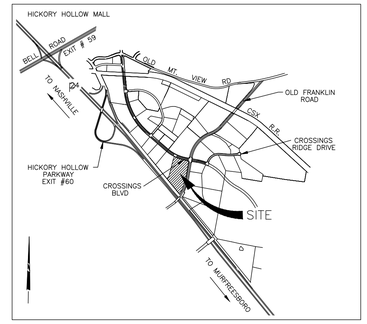
BENCHMARKS

PROJECT BM:
NAVD 88 (GPS DERIVED)

SITE BM #1:
TAG BOLT #8229V7 ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±750' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 601.22

SITE BM #2:
BOLT BELOW ARROW ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±255' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 612.01





VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C1.1	SITE NOTES
C2.0	INITIAL SEDIMENT & EROSION CONTROL PLAN
C2.1	INTERIM SEDIMENT & EROSION CONTROL PLAN
C2.2	FINAL SEDIMENT & EROSION CONTROL PLAN
C2.3	EPSC DETAILS
C2.4	EPSC DETAILS
C3.0	SITE DEMOLITION
C4.0	SITE LAYOUT
C5.0	SITE GRADING & DRAINAGE
C5.1	DETAILD GRADING & DRAINAGE TABLES
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C7.2	SITE DETAILS
C7.3	SITE DETAILS
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L1.0	OVERALL LANDSCAPE PLAN
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L1.4	DETAILED LANDSCAPE PLAN

NOTES:

1. THE PURPOSE OF THIS SUBMITTAL IS TO OBTAIN FINAL PUD APPROVAL FOR THE PARCEL IN QUESTION TO ACCOMMODATE THE PROPOSED CONSTRUCTION OF A 103,955 SF CORPORATE OFFICE BUILDING.
2. THE REQUIRED FIRE FLOW SHALL BE DETERMINED BY THE METROPOLITAN FIRE MARSHAL'S OFFICE, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
3. MINIMUM BUILDING SETBACKS SHALL BE PER THE METRO ZONING CODE
4. ALL DEVELOPMENT WITHIN THE BOUNDARIES OF THIS PLAN MEETS THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
5. ANY EXCAVATION, FILL, OR DISTURBANCE OF THE EXISTING GROUND ELEVATION MUST BE DONE IN ACCORDANCE WITH THE STORM WATER MANAGEMENT ORDINANCE NO. 78-840 AND APPROVED BY THE METROPOLITAN DEPARTMENT OF WATER SERVICES.
6. THE BUFFER ALONG WATERWAYS WILL BE AN AREA WHERE THE SURFACE IS LEFT IN A NATURAL STATE AND IS NOT DISTURBED BY CONSTRUCTION ACTIVITY. THIS IS IN ACCORDANCE WITH THE STORMWATER MANAGEMENT MANUAL, VOLUME 1 REGULATIONS.
7. METRO WATER SERVICES SHALL BE PROVIDED SUFFICIENT AND UNENCUMBERED INGRESS AND EGRESS AT ALL TIMES IN ORDER TO MAINTAIN, REPAIR, REPLACE, AND INSPECT ANY STORMWATER FACILITIES WITHIN THE PROPERTY.
8. NOTE TO PROSPECTIVE OWNERS: YOU ARE STRONGLY ADVISED TO CONTACT METRO WATER SERVICES ENGINEERING (DEVELOPMENT SERVICES) TO DETERMINE ADEQUACY OF PUBLIC WATER AND SEWER FACILITIES FOR INTENDED DEVELOPMENT OF PROPERTY.
9. INDIVIDUAL WATER AND/OR SANITARY SEWER SERVICES ARE REQUIRED FOR EACH PARCEL.

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FINAL P.U.D.
LKQ OFFICE AT THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C0.0

DRAWING NAME
COVER SHEET

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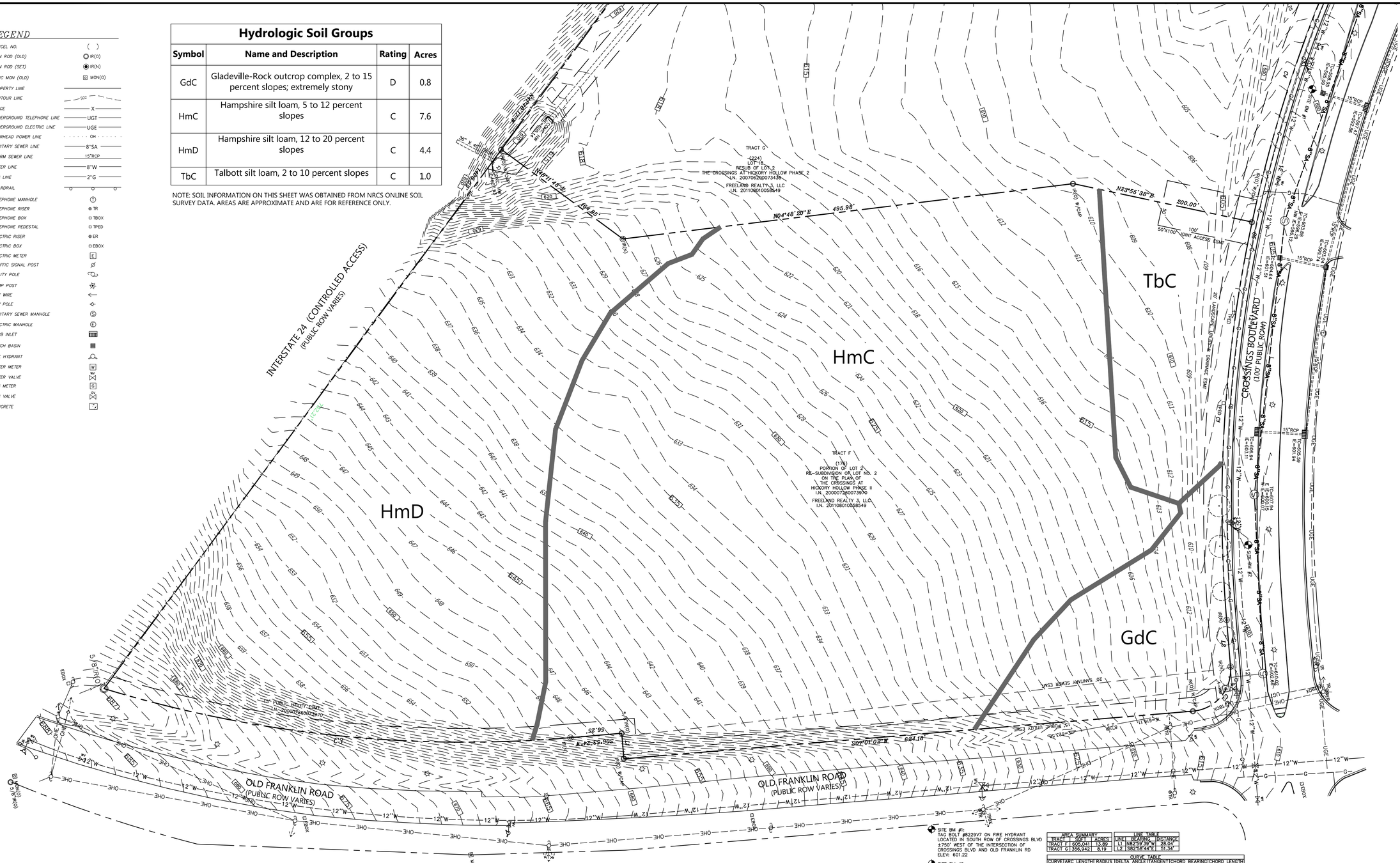
LEGEND

PARCEL NO.	( )
IRON ROD (OLD)	IR(O)
IRON ROD (SET)	IR(N)
CONC MON (OLD)	MON(O)
PROPERTY LINE	
CONTOUR LINE	602
FENCE	X
UNDERGROUND TELEPHONE LINE	UGT
UNDERGROUND ELECTRIC LINE	UGE
OVERHEAD POWER LINE	OH
SANITARY SEWER LINE	8"SA
STORM SEWER LINE	15"RCP
WATER LINE	8"W
GAS LINE	2"G
GUARDRAIL	
TELEPHONE MANHOLE	T
TELEPHONE RISER	TR
TELEPHONE BOX	TBOX
TELEPHONE PEDESTAL	TPED
ELECTRIC RISER	ER
ELECTRIC BOX	EBOX
ELECTRIC METER	E
TRAFFIC SIGNAL POST	
UTILITY POLE	
LAMP POST	
GUY WIRE	
GUY POLE	
SANITARY SEWER MANHOLE	S
ELECTRIC MANHOLE	E
CURB INLET	
CATCH BASIN	
FIRE HYDRANT	
WATER METER	W
WATER VALVE	
GAS METER	G
GAS VALVE	
CONCRETE	

Hydrologic Soil Groups

Symbol	Name and Description	Rating	Acres
GdC	Gladeville-Rock outcrop complex, 2 to 15 percent slopes; extremely stony	D	0.8
HmC	Hampshire silt loam, 5 to 12 percent slopes	C	7.6
HmD	Hampshire silt loam, 12 to 20 percent slopes	C	4.4
TbC	Talbott silt loam, 2 to 10 percent slopes	C	1.0

NOTE: SOIL INFORMATION ON THIS SHEET WAS OBTAINED FROM NRCS ONLINE SOIL SURVEY DATA. AREAS ARE APPROXIMATE AND ARE FOR REFERENCE ONLY.



AREA SUMMARY		
TRACT	SQ.FT.	ACRES
TRACT F	605,041	13.89
TRACT G	356,942	8.19

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N82°59'39"W	28.04'
L2	S82°58'44"E	51.34'

CURVE TABLE							
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD LENGTH
C1	437.42'	1482.39'	16°54'25"	220.31'	S74°31'50"E	435.84'
C2	70.69'	45.00'	90°00'19"	45.00'	N37°58'34"W	63.64'
C3	515.75'	1355.53'	21°48'01"	261.03'	N17°48'28"E	512.65'
C4	329.85'	1482.39'	12°44'56"	165.61'	S59°41'51"E	329.17'
C9	767.27'	1482.39'	29°39'21"	392.44'	S68°09'04"E	758.74'

0 25 50 100 150
GRAPHIC SCALE

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LKQ OFFICE AT
THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C1.0

DRAWING NAME
EXISTING CONDITIONS

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GENERAL NOTES

1. THE PROJECT SITE IS SHOWN ON JURISDICTION, TAX MAP TAX MAP, AS PARCEL PARCEL NUM.
2. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY SURVEY COMPANY DATED SURVEY DATE. LITTLEJOHN ENGINEERING ASSOCIATES AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
3. THE SITE LAYOUT IS BASED ON REFERENCE POINTS AS NOTED.
4. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, (i.e. INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS) IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION.
6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
7. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
8. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
9. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. CONCRETE FOR CURBS AND SIDEWALKS SHALL BE 3500 PSI CONCRETE.
11. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL GOVERNING AUTHORITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. GRADES WITHIN ACCESSIBLE SPACES SHALL BE MAXIMUM 2% IN ALL DIRECTIONS.
13. THE PROPOSED BUILDING SHALL BE LAID OUT UTILIZING THE EXISTING STRUCTURE AS A CONTROL POINT AND THE ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO THE PROPOSED BUILDING ARE CALCULATED TO THE FACE OF EXTERIOR WALL. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
14. CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A REGISTERED LAND SURVEYOR.
15. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
16. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC.
17. THE CONTRACTOR SHALL COLD PLANE IN THE DIRECTION OF TRAFFIC.
18. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.
19. ALL ROADWAY AND SIDEWALK CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF LOCAL GOVERNING AGENCY.
20. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL GOVERNING AGENCY AND STATE DOT REGULATIONS AND SPECIFICATIONS.
21. ALL CURBING WILL BE REQUIRED TO ADJUST TO THE GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES, AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.

DEMOLITION NOTES

1. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF NEW IMPROVEMENTS ON THE SITE LAYOUT PLAN & UTILITY INSTALLATION.
5. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND LOCAL GOVERNING AGENCY PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE UTILITY COMPANIES.
6. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE SUITABLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
9. THE CONTRACTOR SHALL PRESERVE AND PROTECT SURVEY CONTROL POINTS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DISTURBED CONTROL POINTS.
10. EXISTING LIGHT STANDARDS BEING REMOVED SHALL BE FIRST OFFERED TO THE OWNER PRIOR TO DISPOSING OF THEM. COORDINATE LIGHTING DEMOLITION AND LAYOUT WITH THE ELECTRICAL DRAWINGS.
11. RELOCATION OF EXISTING PLANT MATERIALS SHALL BE COORDINATED WITH THE OWNER AND RELOCATED TO A DESIGNATED AREA ON SITE.
12. EXISTING TRESS TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAIL ON THE LANDSCAPE PLAN.
13. NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
14. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
15. SELECTIVE CLEARING CONSISTING OF REMOVAL OF VINES, SAPLINGS UNDER 1" DIAMETER AND UNDERBRUSH SHALL BE PERFORMED IN TREE PRESERVATION AREAS INTERNAL TO THE PROJECT AND NOTED ON PLANS.
16. WHERE WATER LINE AND SEWER LINE ABANDONMENT IS PLANNED, THE CONTRACTOR MAY ABANDON WATER LINES AND SEWER LINES IN PLACE WHERE THEY OCCUR AT LEAST 24" (TO TOP OF PIPE) BELOW FINAL SUBGRADE ELEVATIONS AND OUTSIDE THE BUILDING FOOT PRINT. ALL UTILITY LINES BEING ABANDONED IN PLACE SHALL HAVE ALL ENDS PERMANENTLY CLOSED USING A CONCRETE PLUG.
17. WHERE EXISTING IRRIGATION LINED LIE WITHIN THE AREA AFFECTED BY THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL REWORK THE EXISTING IRRIGATION SYSTEMS IN ACCORDANCE WITH DIRECTIVES NOTED ON THE LANDSCAPE PLAN. SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION TO THE LANDSCAPED AREAS CURRENTLY IRRIGATED.

SITE GRADING & EROSION CONTROL NOTES

1. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY DISTURBED AREA ACRES.
2. THE SUBJECT PROPERTY DOES LIE/DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. FEMA PANEL # OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR PROJECT COUNTY COUNTY, PROJECT STATE, WITH AN EFFECTIVE DATE OF FEMA PANEL DATE.
3. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
4. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
6. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
7. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
8. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
9. THE CONTRACTOR SHALL ADJUST THE CASTINGS OF ALL NEW AND EXISTING STRUCTURES TO MATCH PROPOSED FINISH GRADES.
10. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
11. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
12. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.
13. ALL PIPES UNDER EXISTING PAVED AREAS SHALL BE BACKFILLED TO THE TOP OF SUBGRADE WITH CRUSHED STONE.
14. MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0%. THE MAXIMUM GRADES WITHIN ACCESSIBLE SPACES SHALL BE 2% IN ANY DIRECTION.
15. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE BEGINNING CONSTRUCTION.
16. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL, SHALL BE MONITORED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE.
17. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION PERMANENT FRENCH DRAINS MAY BE REQUIRED. THE DRAINS SHALL BE SPECIFIED AND LOCATED DURING CONSTRUCTION AS REQUIRED BY THE CONDITIONS WHICH ARE ENCOUNTERED, AND SHALL BE APPROVED BY THE ENGINEER.
18. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
19. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
20. IN NO CASE SHALL SLOPE, HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS (29 CRF PART 1926) SHALL BE FOLLOWED.
21. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
22. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS, TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.
23. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES.
24. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL GOVERNING AGENCY.
25. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING.
26. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III, WALL "B". HDPE SHALL BE CORRUGATED, SMOOTH WALL N-12 PIPE WITH SOIL TIGHT JOINTS.
27. FILL SLOPES 3:1 AND GREATER SHALL BE PLACED AND COMPACTED 5' BEYOND PROPOSED LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
28. THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY STAMPED BY A LICENSED SURVEYOR IN THE STATE OF PROJECT STATE OF ALL PUBLIC STORM SYSTEMS, ONSITE DETENTION PONDS, AND WATER QUALITY MEASURES VERIFYING COMPLIANCE WITH DESIGN DOCUMENTS.
29. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THE WATER QUALITY DEVICES.
30. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACTED AS SPECIFIED BY THE GEOTECHNICAL ENGINEER TO XX% STANDARD/MODIFIED PROCTOR.
31. THE LOCATION OF ALL DIVERSION SWALES AND DITCHES SHALL BE FIELD ADJUSTED TO AVOID TREES AS POSSIBLE. THE CONTRACTOR SHALL WALK THE ALIGNMENT OF THESE SWALES AND DITCHES IN THE FIELD TO VERIFY AVOIDANCE OF TREES.
32. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN THE RUN-OFF. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR EARTHWORK. THE CONTRACTOR SHALL OBTAIN THE DISPOSAL SITE AS PART OF THIS WORK.
33. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.
34. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
35. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WASTE EXCESS EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FIRST OFFER THE EXCESS MATERIAL TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) FOR EARTHWORK OPERATIONS IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE.
36. SEGMENTAL WALLS SHALL BE PROVIDED BY THE CONTRACTOR AS A DESIGN BUILD. WALL DESIGN PLANS STAMPED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER AS A SHOP DRAWING. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY GEOTECHNICAL INFORMATION NECESSARY TO PROPERLY DESIGN THE WALL.

SITE UTILITY NOTES

1. THE PROJECT SITE IS SHOWN ON JURISDICTION, TAX MAP TAX MAP, AS PARCEL PARCEL NUM.
2. THE SANITARY SEWER SHALL BE OF THE MATERIAL INDICATED ON THE PLAN. POLYVINYLCHLORIDE (PVC) SHALL BE (SDR35). DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS 52.
3. ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
4. PROVIDE A MINIMUM ___" OF COVER OVER ALL WATER LINES.
5. THE CONTRACTOR SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES. WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
6. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING MANHOLES OR SANITARY SEWER LINES AT THE POINT OF CONNECTION PRIOR TO THE COMMENCEMENT OF ORDERING OF MATERIALS, CONSTRUCTION OR REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE, EXISTING OR PROPOSED.
8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL WATER AND SEWER DEPARTMENT SPECIFICATIONS.
10. ALL TRENCHES CUT IN EXISTING ROADS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFIELD (100%) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER LOCAL AGENCY REQUIREMENTS.
11. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDSCAPING, ETC...) TO PRE-CONSTRUCTION CONDITION.
12. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASSUNDER OR OVER OTHER UTILITY LINES. (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED BY WATER DEPARTMENT.
13. REDUCED PRESSURE BACKFLOW PREVENTER (RPBP) OR DUAL CHECK WILL BE REQUIRED ON ALL TESTS AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY THE WATER DEPARTMENT.
14. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING PLANS.
15. WATER METERS SHALL BE AT LEAST 22" BUT NO MORE THAN 26" FROM TOP OF METER TO PROPOSED FINISHED GRADE.
16. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS. EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
17. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
18. THE PROPOSED GAS LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL GAS COMPANY BY THE CONTRACTOR.
19. THE PROPOSED ELECTRIC LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL ELECTRIC COMPANY BY THE CONTRACTOR.
20. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR.
21. WHERE DRAINAGE OR UTILITY LINES OCCUR IN PROPOSED FILL AREAS, THE FILL MATERIAL IS TO BE PLACED AND COMPACTED TO XX% STANDARD/MODIFIED PROCTOR OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D698/D1557 PRIOR TO INSTALLATION OF DRAINAGE OR UTILITY LINES. FILL IS TO BE INSPECTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER TESTING FIRM EMPLOYED BY THE OWNER. RESULTS OF THE TEST SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR TO PAY FOR ANY RETESTING.
22. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES.
23. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
24. WATER SERVICES SHALL BE ¾" TYPE K COPPER AND SHALL INCLUDE CORPORATION STOPS, CURB STOPS, PRESENT METER BOX AND ALL OTHER FITTINGS AS REQUIRED BY LOCAL DEPARTMENT.
25. THE OUTSIDE OF ALL MANHOLES SHALL BE COATED WITH BITUMINOUS PAINT.
26. ALL WATER LINE SERVICES SHALL TERMINATE AT A METER BOX LOCATED 10 FEET FROM THE R.O.W. LINE.
27. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
28. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.
29. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
30. FIRE HYDRANT ASSEMBLIES INCLUDE THE APPROPRIATE SIZED TEE (WITH KICKER), 6" LINE TO HYDRANT, 6" GATE VALVE (WITH VALVE BOX), AND FIRE HYDRANT (WITH KICKER). HYDRANTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
31. THE CONCRETE CAPS AND ENCASEMENTS ON WATER AND SEWER LINES SHALL BE A MINIMUM OF 6" THICK. USE 3000 PSI CONCRETE.
32. ALL SANITARY SEWER SERVICES SHALL BE 6" DIAMETER AND EXTEND 10 FEET BEYOND THE PROPERTY LINE.
33. CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW PVC LINES WITH #8 WIRE.
34. BACKFLOW PREVENTION DEVICE FOR THE DOMESTIC WATER SERVICE SHALL BE LOCATED INSIDE THE BUILDING, SEE PLUMBING PLANS.
35. SIAMESE STAND PIPE TO BE GALVANIZED STEEL.
36. ALL PROPOSED LOT CORNERS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION OF SANITARY SEWERS. CONTROL POINTS ARE AS SHOWN ON THE SITE LAYOUT PLAN.
37. THE HOME BUILDER SHALL VERIFY THE SANITARY SEWER SERVICE ELEVATION PRIOR TO SETTING THE FINISHED FLOOR ELEVATIONS FOR ALL LOTS. THE SANITARY SEWER MAIN AND SERVICES WERE DESIGNED BASED ON SETTING MINIMUM FINISHED FLOOR ELEVATIONS ON A NUMBER OF CRITICAL LOTS. THE HOME BUILDER SHALL ADHERE TO THE MINIMUM FINISHED FLOOR ELEVATIONS LISTED ON THE SANITARY SEWER SHEETS.
38. SEWER SERVICES TO BE 6" DIAMETER PVC AT A MINIMUM SLOPE OF 1.0% UNLESS SHOWN OTHERWISE ON THE DRAWINGS. LINES SHALL START 5' BEYOND THE BUILDINGS. COORDINATE CONNECTION POINTS WITH THE BUILDING PLUMBING DRAWINGS. PROVIDE A MINIMUM 30" OF COVER OVER ALL SEWER SERVICES IN GRASS AREAS AND 48" OF COVER IN PAVED AREAS.
39. ALL FIRE LINES SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE PROJECT.

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FINAL P.U.D.
LKQ OFFICE AT
THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C1.1

DRAWING NAME
SITE NOTES

METRO NOTES:

"AS THE DESIGN ENGINEER RESPONSIBLE FOR THE DEVELOPMENT OF THESE PLANS, I HEREBY CERTIFY THAT THIS PROJECT, WHICH SHALL DISTURB ONE (1) OR MORE ACRES, HAS BEEN GRANTED COVERAGE UNDER THE TENNESSEE GENERAL STORM WATER PERMIT ADDRESSING CONSTRUCTION SITE RUNOFF ACTIVITIES BY THE TENNESSEE DIVISION OF WATER POLLUTION CONTROL." (TNR# 241498)

Michael Towles

TN REGISTERED ENGINEER

04/17/2017
DATE

I, MICHAEL GREGORY TOWLES , A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

Michael Towles

EROSION CONTROL SPECIALIST

04/17/2017
DATE

SITE BM #1:
TAG BOLT #8229V7 ON FIRE HYDRANT
LOCATED IN SOUTH ROW OF CROSSINGS BLVD
±750' WEST OF THE INTERSECTION OF
CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 601.22

SITE BM #2:
BOLT BELOW ARROW ON FIRE HYDRANT
LOCATED IN SOUTH ROW OF CROSSINGS BLVD
±255' WEST OF THE INTERSECTION OF
CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 612.01

PROJECT BM:
NAVD 88 (GPS DERIVED)

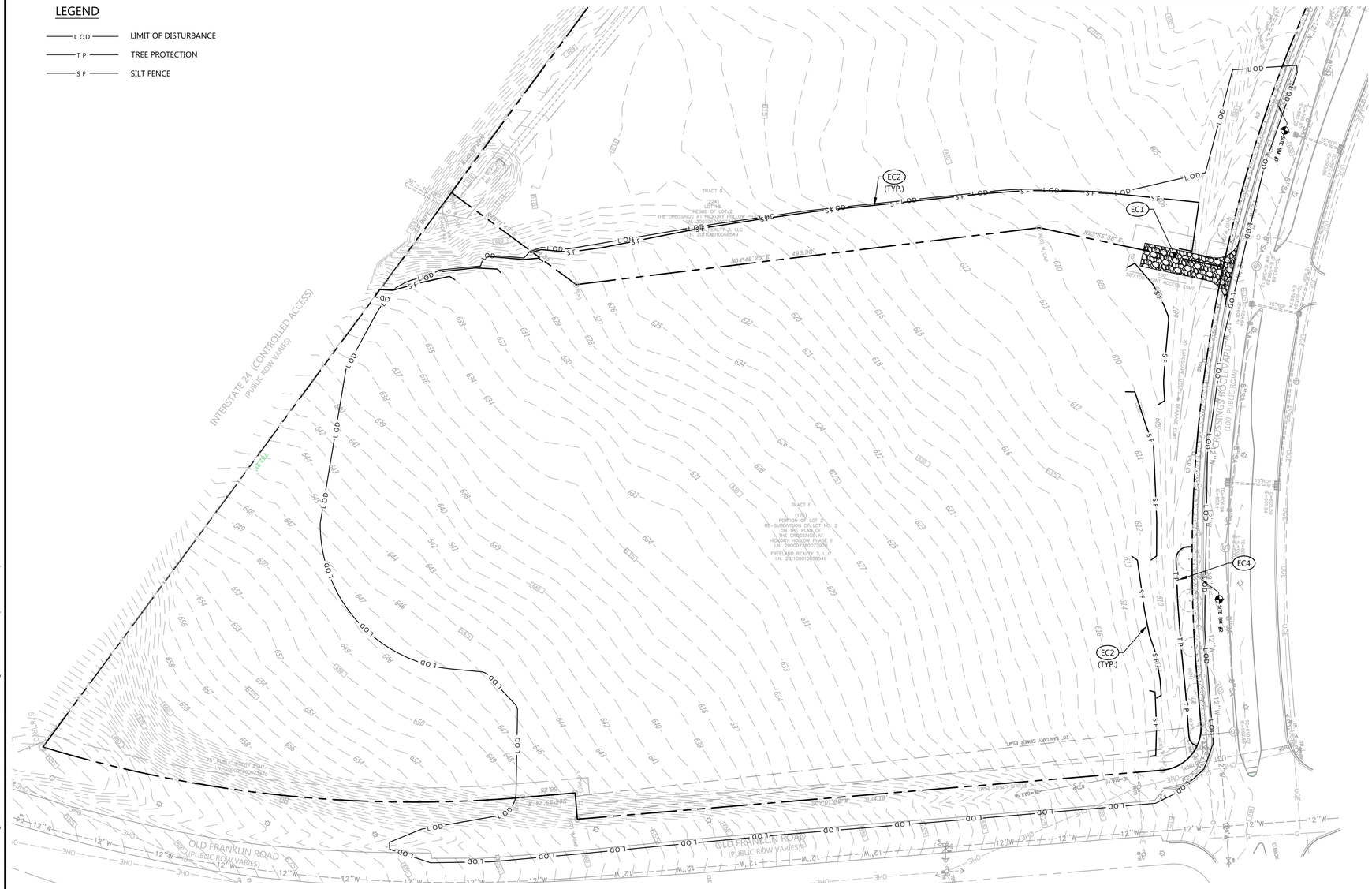
EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	
EC2	SILT FENCE OR WEIGHTED SEDIMENT TUBES	
EC3	INLET PROTECTION	
EC4	TREE PROTECTION	
EC5	DIVERSION DITCH	
EC6	ROCK CHECK DAM	
EC7	RIPRAP AT HEADWALL	
EC8a	SEDIMENT TRAP OUTLET STRUCTURE	
EC8b	TEMPORARY SEDIMENT TRAP	
EC9	TEMPORARY SEEDING OR MULCHING	
EC10	POROUS BAFFLE	
EC11	BIODEGRADABLE EROSION CONTROL BLANKETS WITH HYDRO SEEDING	
EC12	PERMANENT EROSION CONTROL BLANKETS WITH HYDRO SEEDING	

LEGEND

L O D — LIMIT OF DISTURBANCE

T P — TREE PROTECTION

S F — SILT FENCE



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FINAL P.U.D.
LKQ OFFICE AT THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C2.0

DRAWING NAME
INITIAL SEDIMENT & EROSION CONTROL PLAN

811
Know what's below.
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GRAPHIC SCALE

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METRO NOTES:

"AS THE DESIGN ENGINEER RESPONSIBLE FOR THE DEVELOPMENT OF THESE PLANS, I HEREBY CERTIFY THAT THIS PROJECT, WHICH SHALL DISTURB ONE (1) OR MORE ACRES, HAS BEEN GRANTED COVERAGE UNDER THE TENNESSEE GENERAL STORM WATER PERMIT ADDRESSING CONSTRUCTION SITE RUNOFF ACTIVITIES BY THE TENNESSEE DIVISION OF WATER POLLUTION CONTROL." (TNR# 241498)

04/17/2017
TN REGISTERED ENGINEER — DATE

I, MICHAEL GREGORY TOWLES , A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

04/17/2017
EROSION CONTROL SPECIALIST — DATE

NOTE:
CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRE-CONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.

SITE BM #1:
TAG BOLT #8229V7 ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±750' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 601.22

SITE BM #2:
BOLT BELOW ARROW ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±255' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 612.01

PROJECT BM:
NAVD 88 (GPS DERIVED)

LEGEND

- INLET PROTECTION
- LOD — LIMIT OF DISTURBANCE
- TP — TREE PROTECTION FENCE
- SF — SILT FENCE
- POROUS BAFFLE
- ROCK CHECK DAM
- TEMPORARY SEEDING OR MULCHING

SEDIMENT TRAP NOTES

1. THE MAXIMUM EXCAVATION DEPTH OF THE SEDIMENT TRAP MUST BE AT LEAST 1 FOOR ABOVE THE POST CONSTRUCTION FINISHED GRADE.
2. IF SEDIMENT TRAPS ARE INSTALLED IN THE SAME LOCATION AS BIO-RETENTION PONDS, THEN THE BIO-RETENTION POND MUST BE INSTALLED WITH AN UNDERDRAIN.
3. WHEN CONVERTING THE SEDIMENT TRAP TO BIO-RETENTION:
   - DE-WATER THE SEDIMENT TRAP BY PUMPING THE REMAINING WATER THOUGH FILTERING DEVICE.
   - REMOVE SEDIMENT AND DISPOSE IN AN APPROVED LOCATION.
   - EXCAVATE TO THE PROPER DEPTH PER GRADING PLANS AND BIO-RETENTION DETAILS.
   - REPLACE TEMPORARY OUTLET STRUCTURE WITH PERMANENT OUTLET STRUCTURE.
   - INSTALL UNDERDRAIN AND BIO-RETENTION LAYERS PER PLANS AND DETAILS.
   - INSTALL FINAL STABILIZATION AND VEGETATION PER LANDSCAPE PLANS.
4. INSPECT SEDIMENT TRAPS WEEKLY, BEFORE AND AFTER RAINFALL EVENTS. DURING EXTENDED RAINFALL EVENTS, INSPECT SEDIMENT TRAPS DAILY DURING CONSTRUCTION.
5. EXAMINE TRAP BANKS FOR SEEPAGE AND STRUCTURAL SOUNDNESS.
6. CHECK OUTLET STRUCTURE AND SPILLWAY FOR ANY DAMAGE OR OBSTRUCTIONS. REPAIR DAMAGE AND REMOVE OBSTRUCTIONS AS NEEDED.
7. CHECK OUTLET AREA FOR EROSION AND STABILIZE, IF REQUIRED.
8. REMOVE ACCUMULATED SEDIMENT WHEN THE VOLUME HAS REACHED ONE-THIRD THE ORIGINAL TRAP VOLUME. PROPERLY DISPOSE OF SEDIMENT AND DEBRIS REMOVED FROM THE TRAP.

EROSION CONTROL KEYNOTES

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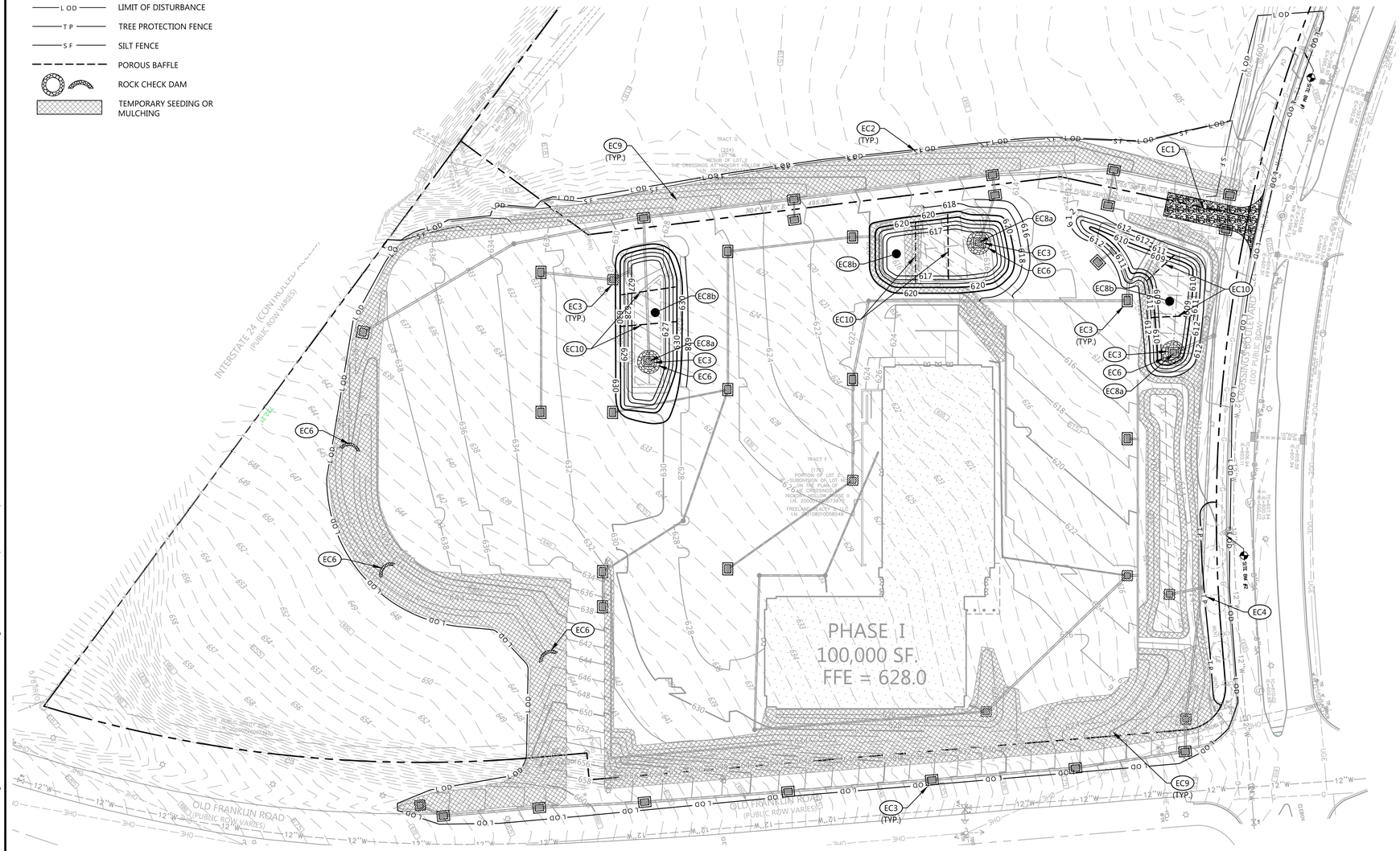

EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE CONSTRUCTION SITE (OR A PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. IN THE FOLLOWING SITUATIONS, TEMPORARY STABILIZATION MEASURES ARE NOT REQUIRED:
   A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS OR ADVERSE SOGGY GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; OR
   B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS.
7. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.
8. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION (USING NATIVE HERBACEOUS AND WOODY PLANTS WHERE PRACTICABLE) OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING SURFACE.
9. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
10. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED. THIS INCLUDES THE REMOVAL OF SILT FENCE, SEDIMENT TUBES, INLET PROTECTION, CHECK DAMS, FILTER RINGS, ETC.
12. REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION FOR FINAL STABILIZATION MEASURES INCLUDING FINAL VEGETATION, PLANTINGS, MULCHING, STONE, ETC.

SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON METRO TAX MAP 174, PARCEL 176 IN NASHVILLE, DAVIDSON COUNTY, TENNESSEE. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 13.26± ACRES TO CONSTRUCT A CORPORATE OFFICE FACILITY.

1. APPROXIMATE CONSTRUCTION TIME TABLE:
   BEGIN CONSTRUCTION - [AUGUST 2017]
   COMPLETE CONSTRUCTION - [DECEMBER 2018]
2. CONSTRUCTION SEQUENCE:
   A. ATTEND METRO WATER SERVICES - WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
   B. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
   C. CONTACT METRO WATER SERVICES - WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
   D. ALL PERIMETER EPSC MEASURES SHALL BE IN PLACE BEFORE GRADING OPERATIONS BEGIN.
   E. CLEAR AND GRUB THE REMAINING SITE.
   F. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
   G. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   H. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
3. TOTAL PROJECT AREA = 595,874 SF (13.68± AC.)
   DISTURBED AREA = 577,686 S.F. (13.26± AC.)

SWGR

IN ACCORDANCE WITH THE METRO STORMWATER MANAGEMENT MANUAL, VOLUME 1, SECTION 3.9, AS-BUILT CERTIFICATIONS, MWS STORMWATER DIVISION MUST APPROVE THE FOLLOWING AS-BUILTS PRIOR TO ISSUANCE OF THE USE AND OCCUPANCY PERMIT:
- UNDERGROUND DETENTION AND WATER QUALITY INFRASTRUCTURE
- ABOVE GROUND DETENTION AND WATER QUALITY INFRASTRUCTURE
- PUBLIC STORM SEWER INFRASTRUCTURE
- CUT AND FILL IN THE FLOODPLAIN
- SINK HOLE ALTERATIONS

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GRAPHIC SCALE

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FINAL P.U.D.
LKQ OFFICE AT THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DESCRIPTION	DATE	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C2.1

DRAWING NAME
INTERIM SEDIMENT & EROSION CONTROL PLAN

G:\Projects\2017\514717001\dwg\Construction\514717001-C-C2.0 ERO.dwg-C2.1 INTERIM ERO Apr 14, 2017 cpaul

METRO NOTES:

"AS THE DESIGN ENGINEER RESPONSIBLE FOR THE DEVELOPMENT OF THESE PLANS, I HEREBY CERTIFY THAT THIS PROJECT, WHICH SHALL DISTURB ONE (1) OR MORE ACRES, HAS BEEN GRANTED COVERAGE UNDER THE TENNESSEE GENERAL STORM WATER PERMIT ADDRESSING CONSTRUCTION SITE RUNOFF ACTIVITIES BY THE TENNESSEE DIVISION OF WATER POLLUTION CONTROL." (TNR# 241498)

Michael Towles

TN REGISTERED ENGINEER - 04/17/2017 DATE

I, MICHAEL GREGORY TOWLES , A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

Michael Towles

EROSION CONTROL SPECIALIST 04/17/2017 DATE

NOTE:
CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRE-CONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.

SITE BM #1:
TAG BOLT #8229V7 ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±750' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 601.22

SITE BM #2:
BOLT BELOW ARROW ON FIRE HYDRANT LOCATED IN SOUTH ROW OF CROSSINGS BLVD ±255' WEST OF THE INTERSECTION OF CROSSINGS BLVD AND OLD FRANKLIN RD
ELEV: 612.01

PROJECT BM:
NAVD 88 (GPS DERIVED)

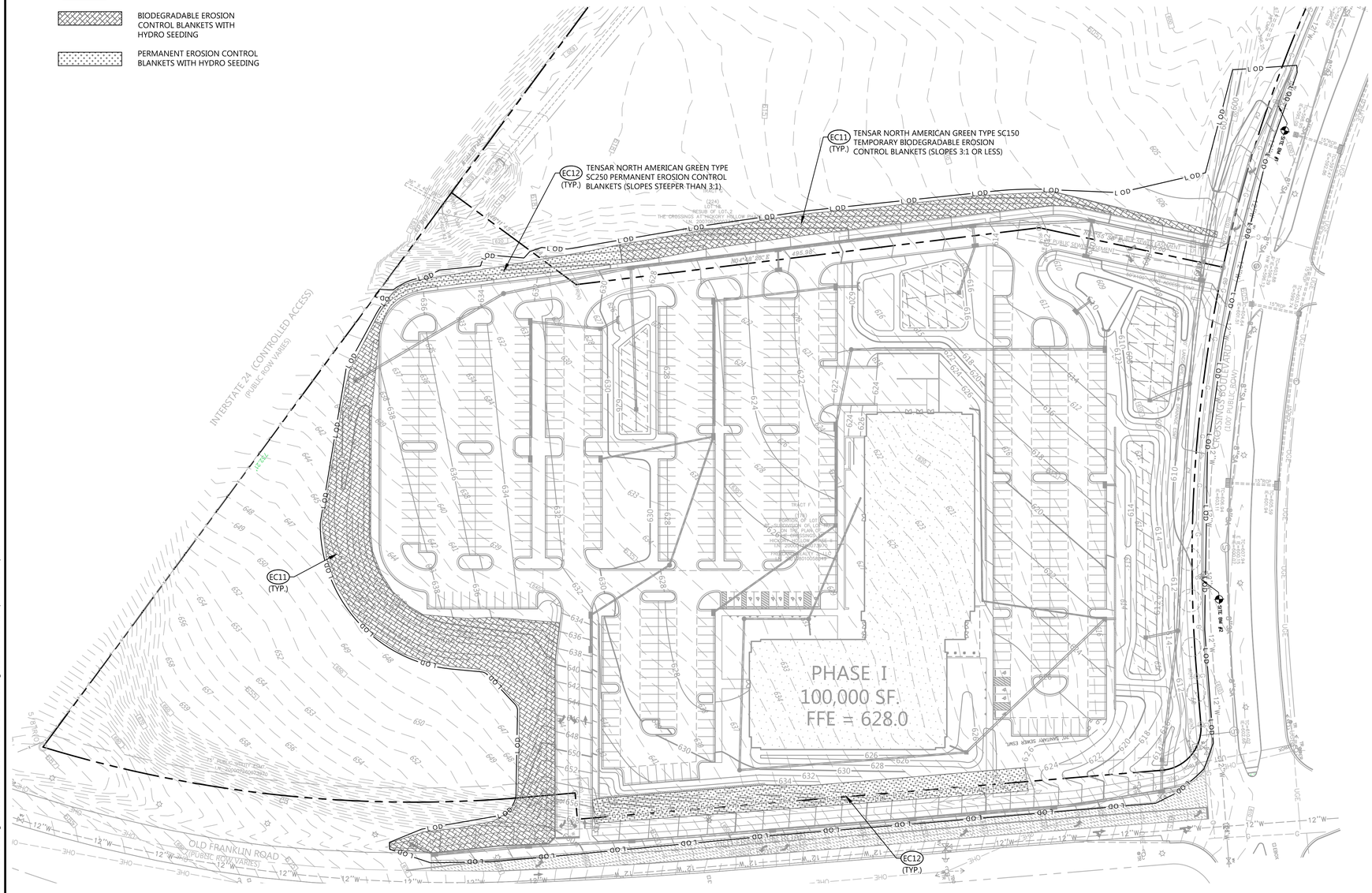
EROSION CONTROL KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	
EC2	SILT FENCE OR WEIGHTED SEDIMENT TUBES	
EC3	INLET PROTECTION	
EC4	TREE PROTECTION	
EC5	DIVERSION DITCH	
EC6	ROCK CHECK DAM	
EC7	RIPRAP AT HEADWALL	
EC8a	SEDIMENT TRAP OUTLET STRUCTURE	
EC8b	TEMPORARY SEDIMENT TRAP	
EC9	TEMPORARY SEEDING OR MULCHING	
EC10	POROUS BAFFLE	
EC11	BIODEGRADABLE EROSION CONTROL BLANKETS WITH HYDRO SEEDING	
EC12	PERMANENT EROSION CONTROL BLANKETS WITH HYDRO SEEDING	

LEGEND

BIODEGRADABLE EROSION CONTROL BLANKETS WITH HYDRO SEEDING

PERMANENT EROSION CONTROL BLANKETS WITH HYDRO SEEDING



EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE CONSTRUCTION SITE (OR A PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. IN THE FOLLOWING SITUATIONS, TEMPORARY STABILIZATION MEASURES ARE NOT REQUIRED:
   A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS OR ADVERSE SOGGY GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; OR
   B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS.
7. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.
8. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION (USING NATIVE HERBACEOUS AND WOODY PLANTS WHERE PRACTICABLE) OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING SURFACE.
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NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C2.2

DRAWING NAME
FINAL SEDIMENT & EROSION CONTROL PLAN

G:\Projects\2017\514717001\dwg\Construction\514717001-C-C2.0 ERO.dwg-C2.2 FINAL ERO Apr 14, 2017 cpaul

SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

1. INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE, OR THE DIVISION'S NASHVILLE CENTRAL OFFICE FOR PROJECTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) AND THE TENNESSEE VALLEY AUTHORITY (TVA). SHOULD TDEC DISCOVER THAT MONTHLY INSPECTIONS OF THE SITE ARE NOT APPROPRIATE DUE TO INSUFFICIENT STABILIZATION MEASURES OR OTHERWISE, TWICE WEEKLY INSPECTIONS SHALL RESUME. TDEC MAY INSPECT THE SITE TO CONFIRM OR DENY THE NOTIFICATION TO CONDUCT MONTHLY INSPECTIONS.

2. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.

3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.

4. OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

5. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.

6. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.

7. ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE TO TDEC UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO TDEC WITHIN 10 DAYS OF THE REQUEST. IF TDEC REQUESTS THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM TO BE SUBMITTED, THE SUBMITTED FORM MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE TRAINED CERTIFIED INSPECTOR AND THE PERSON WHO MEETS THE SIGNATORY REQUIREMENTS OF SECTION 7.7.2 OF THE NPDES GENERAL PERMIT.

8. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.

9. SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE (SUCH AS A HOME BUILDER).

SITE ASSESSMENT NOTES

1. THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
   - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
   - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
   - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.

2. QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.

3. AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.

4. THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION PROVIDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:

   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, 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."

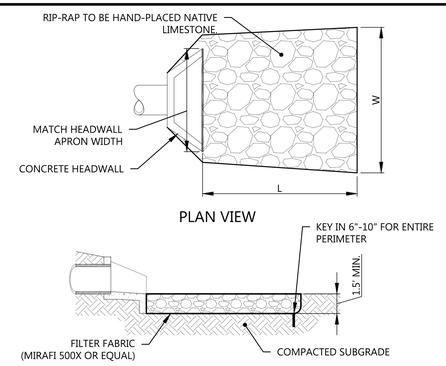
5. THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.

6. TDEC MAY REQUIRE ADDITIONAL SITE ASSESSMENT(S) TO BE PERFORMED IF SITE INSPECTION BY TDEC'S PERSONNEL REVEALS SITE CONDITIONS THAT HAVE POTENTIAL OF CAUSING POLLUTION TO THE WATERS OF THE STATE.

NOTE:

CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

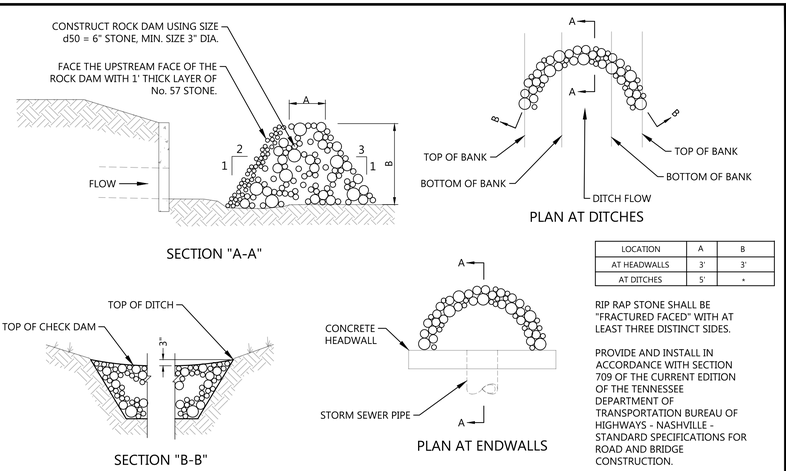
1. A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
2. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
3. DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).



NOTE: OUTLET PROTECTION SIZED PER METRO STANDARD PESC-07-03.

DIMENSIONS
MEDIAN RIP-RAP DIAMETER = D50 = 4"
MAX. STONE DIAMETER = 6"
APRON LENGTH = L = 10'
APRON WIDTH = W = CHANNEL WIDTH = 9'

4 PESC-07 RIP-RAP OUTLET PROTECTION
NO SCALE



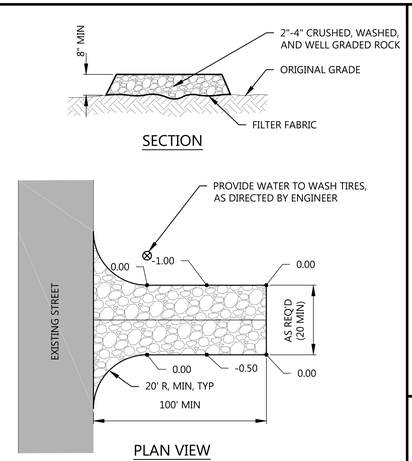
LOCATION	A	B
AT HEADWALLS	3'	3'
AT DITCHES	5'	*

RIP RAP STONE SHALL BE "FRACTURED FACED" WITH AT LEAST THREE DISTINCT SIDES.

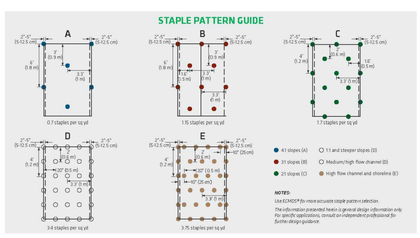
PROVIDE AND INSTALL IN ACCORDANCE WITH SECTION 709 OF THE CURRENT EDITION OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS - NASHVILLE - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

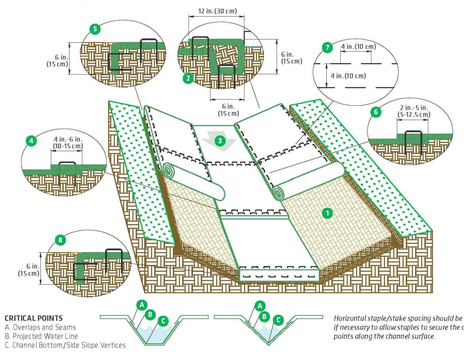
d50 BY DEFINITION = 50% OF THE STONE BY WEIGHT SHALL BE THE SIZE NOTED OR SMALLER.

3 TCP-12 ROCK CHECK DAM / STONE FILTER RING
NO SCALE



1 TCP-03 TEMPORARY CONSTRUCTION ENTRANCE
NO SCALE





*TENSAR NORTH AMERICAN GREEN TYPE SC250 PERMANENT EROSION CONTROL BLANKETS TO BE INSTALLED ON SLOPES STEEPER THAN 3:1.

*TENSAR NORTH AMERICAN GREEN TYPE SC150 TEMPORARY BIODEGRADABLE EROSION CONTROL BLANKETS OR APPROVED EQUIVALENT TO BE INSTALLED ON SLOPES 3:1 OR LESS.

NOTE:
DETAIL PROVIDED BY TENSAR, NORTH AMERICAN GREEN. REFER TO MANUFACTURER FOR ADDITIONAL DETAILS.

5 TCP-10 EROSION CONTROL BLANKETS
NO SCALE

ACTIVITY: Weighted Sediment Tube | TCP – 14

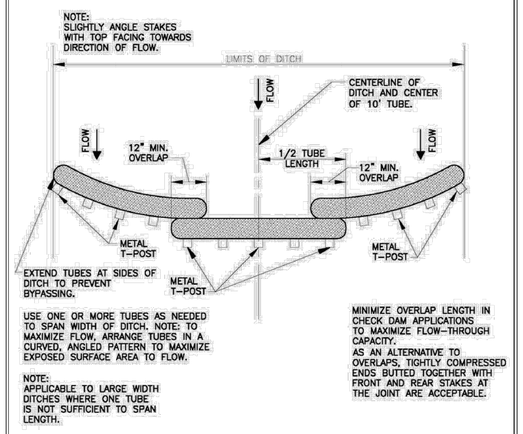


Figure TCP-14-2
Check Dam Arrangement for Larger Width Ditches for Sediment Tubes

Volume 4:
Stormwater Best Management Practices – Temp. Construction Management Practices | TCP-14-7 | August 2009

ACTIVITY: Weighted Sediment Tube | TCP – 14

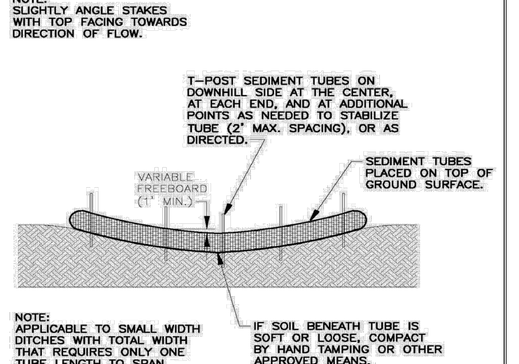


Figure TCP-14-1
Small Ditch Checks for Sediment Tubes

Volume 4:
Stormwater Best Management Practices – Temp. Construction Management Practices | TCP-14-6 | August 2009

2 TCP-14 WEIGHTED SEDIMENT TUBE
NO SCALE

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5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C2.3

DRAWING NAME
EPSC DETAILS

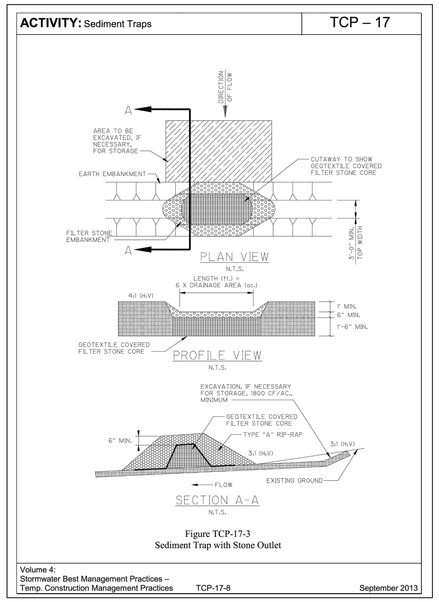

Figure TCP-17-3
Sediment Trap with Stone Outlet

1 TCP-17-3 SEDIMENT TRAP WITH STONE OUTLET

NO SCALE

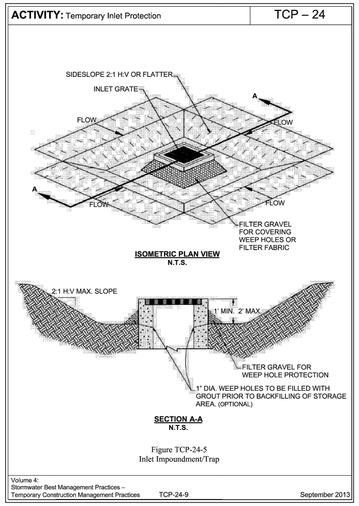

Figure TCP-24-5
Inlet Impoundment/Trap

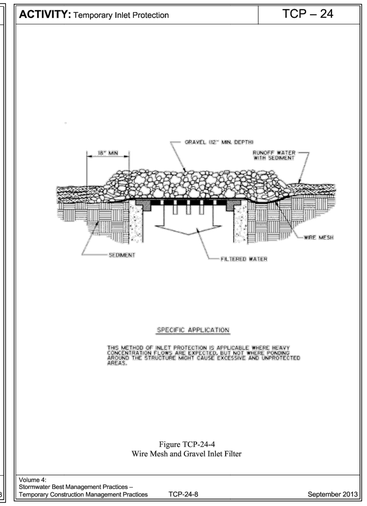

Figure TCP-24-4
Wire Mesh and Gravel Inlet Filter

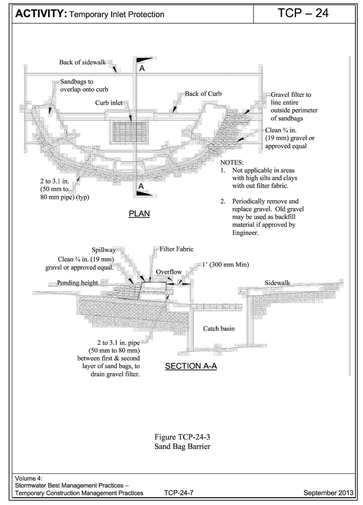

Figure TCP-24-3
Sand Bag Barrier

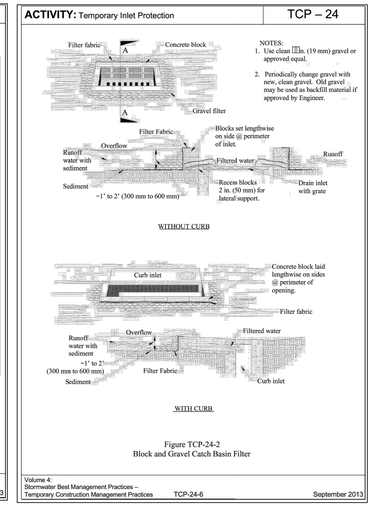

Figure TCP-24-2
Block and Gravel Catch Basin Filter

1 TCP-24 TEMPORARY INLET PROTECTION

NO SCALE

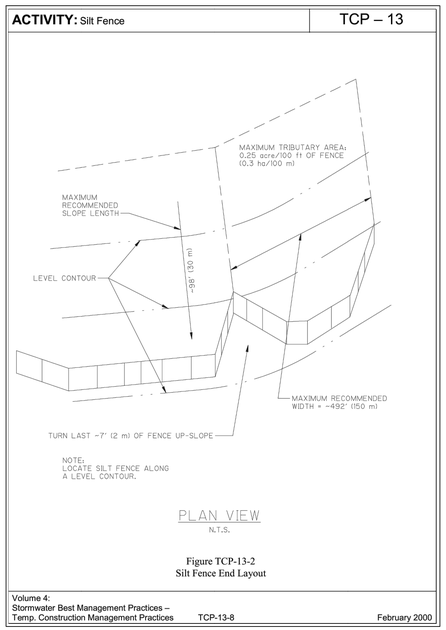

Figure TCP-13-2
Silt Fence End Layout

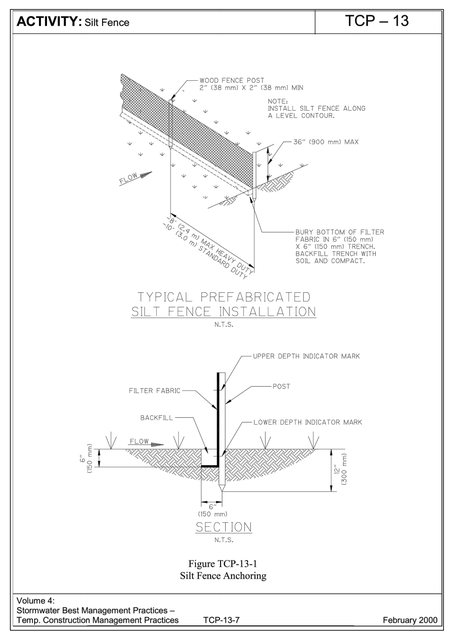

Figure TCP-13-1
Silt Fence Anchoring

2 TCP-13 SILT FENCE

NO SCALE

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Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C2.4

DRAWING NAME
EPSC DETAILS

DEMOLITION KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
D1	REMOVE EXISTING ASPHALT PAVEMENT	
D2a	REMOVE EXISTING CONCRETE PAVEMENT	
D2b	REMOVE EXISTING CONCRETE SIDEWALK	
D3	REMOVE EXISTING CONCRETE CURB	
D4	EVENLY SAWCUT	
D5	REMOVE EXISTING BUILDING/STRUCTURE	
D6	REMOVE EXISTING DRAINAGE STRUCTURE	
D7	REMOVE EXISTING STORM LINE	
D8	REMOVE EXISTING WATERLINE & APPURTENANCES	
D9	REMOVE EXISTING SANITARY SEWER LINE	
D10	REMOVE EXISTING UTILITY LINE & APPURTENANCES	
D11	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE	
D12	EXISTING HYDRANT TO BE RELOCATED	
D13	REMOVE EXISTING TREE	

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Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C3.0

DRAWING NAME
SITE DEMOLITION

G:\Projects\2017\514717001\dwg\Construction\514717001-C-C3.0 DEM.dwg-C3.0 DEMOLITION Apr. 14, 2017 cpaul

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
S1a	ASPHALT PAVEMENT - LIGHT DUTY	
S1b	ASPHALT PAVEMENT - HEAVY DUTY	
S1c	ASPHALT PAVEMENT - OVERLAY	
S1d	ASPHALT PAVEMENT (METRO STANDARD DETAIL)	
S2	CONCRETE PAVEMENT	
S3a	CONCRETE CURB & GUTTER	
S3b	CONCRETE POST CURB	
S3c	CONCRETE EXTRUDED CURB	
S4a	CONCRETE SIDEWALK	
S4b	CONCRETE SIDEWALK WITH TURN DOWN CURB	
S4c	CONCRETE SIDEWALK AT CURB & GUTTER	
S5	SIDEWALK JOINTS	
S6	ACCESSIBLE SYMBOL	
S7	ACCESSIBLE PARKING SPACE	
S8a	ACCESSIBLE RAMP	
S8b	ACCESSIBLE WINGED RAMP	
S9	TACTILE WARNING SURFACE	
S10	CONCRETE WHEELSTOP	
S11a	CONCRETE STAIRS WITH HANDRAIL	
S11b	CONCRETE STAIRS WITH HANDRAIL/GUARDRAIL	
S12	ELEVATED WALK	
S13a	RAMP WITH HANDRAIL	
S13b	RAMP WITH HANDRAIL/GUARDRAIL	
S14	BOLLARD	
S15	UTILITY PAD	
S16	CONCRETE DUMPSTER PAD	
S17	DRIVEWAY RAMP	
S18	DIRECTIONAL ARROWS	
S19	PEDESTRIAN CROSSWALK	
S20a	CHAIN LINK FENCE (SPECIFY HEIGHT)	
S20b	WOODEN SCREEN FENCE (SPECIFY HEIGHT)	
S21a	GUARDRAIL	
S21b	GUARDRAIL WITH HANDRAIL	
S22a	CONCRETE RETAINING WALL	
S22b	SEGMENTAL RETAINING WALL	
S23	PAINTED STOP BAR (SPECIFY WIDTH)	

LINE TABLE		
LINE #	LENGTH	BEARING
L1	176.76	S23° 55' 38"W
L2	213.06	S4° 48' 20"W
L3	60.45	S4° 48' 20"W
L4	70.53	S4° 48' 20"W
L5	120.90	S4° 48' 20"W
L6	75.29	S4° 48' 20"W
L7	60.45	S4° 48' 20"W
L8	25.06	S4° 48' 20"W
L9	214.92	N78° 11' 39"W
L10	20.00	N11° 48' 21"E
L11	297.67	N78° 11' 39"W

LINE TABLE		
LINE #	LENGTH	BEARING
L12	305.04	N78° 11' 39"W
L13	314.22	S78° 11' 39"E
L14	60.00	N11° 48' 21"E
L15	74.73	N11° 48' 21"E
L16	280.94	S78° 11' 39"E
L17	60.00	N11° 48' 21"E
L18	185.99	N78° 11' 39"W
L19	60.21	S7° 00' 21"W
L20	180.96	S78° 11' 39"E
L21	328.95	S78° 11' 39"E
L22	337.55	S78° 11' 39"E

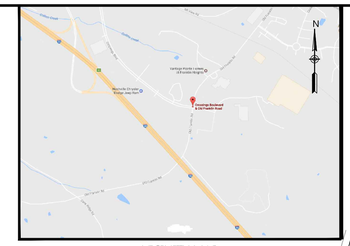
LINE TABLE		
LINE #	LENGTH	BEARING
L23	200.40	S78° 11' 39"E
L24	144.51	S78° 11' 39"E
L25	125.39	S11° 48' 21"W
L26	81.91	N73° 34' 14"W
L27	23.00	N11° 48' 21"E
L28	388.00	S78° 11' 39"E
L29	60.00	N11° 48' 21"E
L30	425.00	S78° 11' 39"E
L31	60.00	N11° 48' 21"E
L32	70.00	N11° 48' 21"E
L33	60.00	N11° 48' 21"E

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	45.37	200.00	13.00	S17° 25' 45"W	45.27
C2	57.94	40.00	83.00	S36° 41' 39"E	53.01
C3	62.83	40.00	90.00	N56° 48' 21"E	56.57
C4	58.12	37.00	90.00	S56° 48' 21"W	52.33
C5	21.38	200.00	6.13	S7° 52' 06"W	21.37

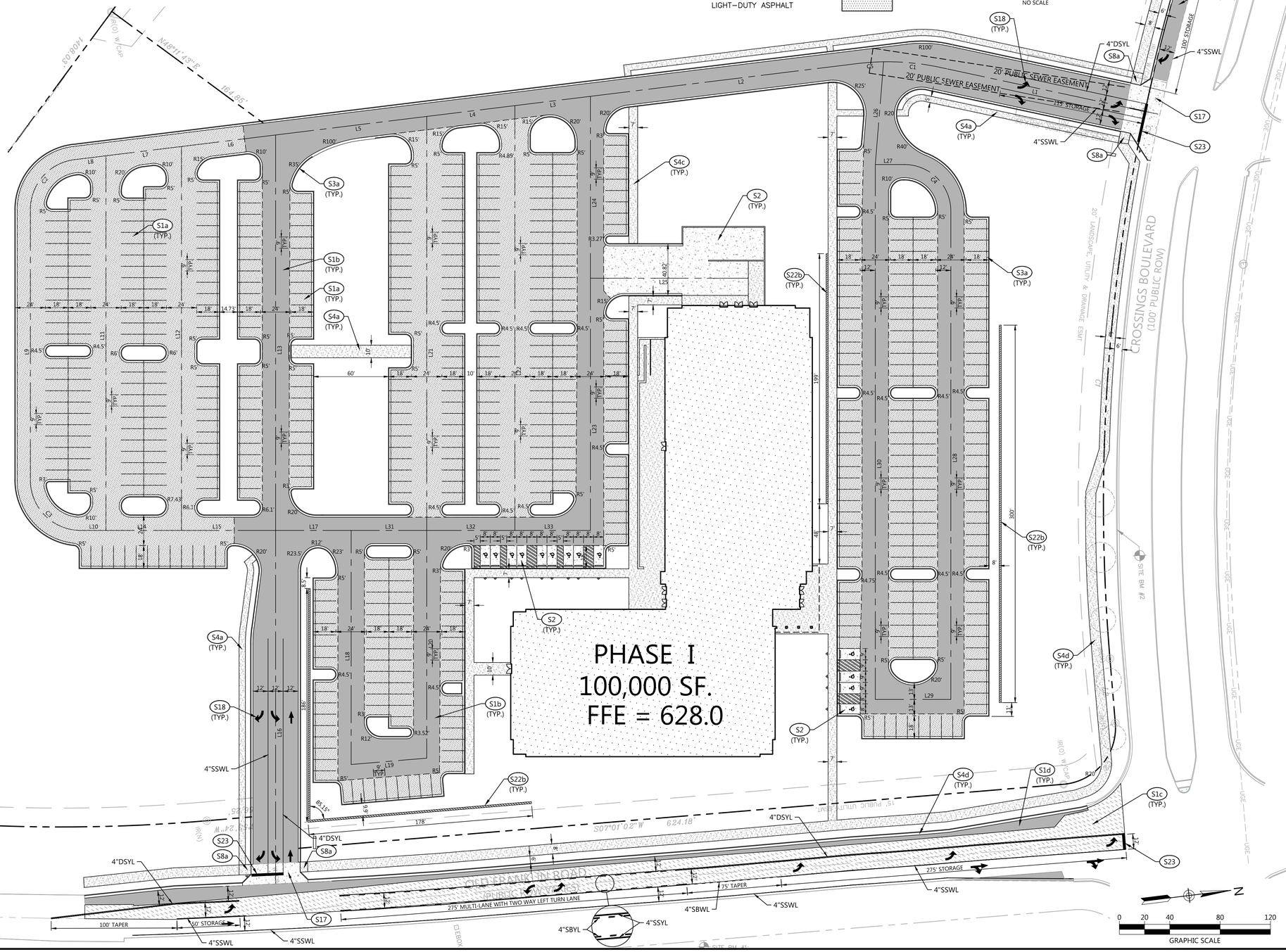
811
Know what's below.
Call before you dig.

PROPOSED FEATURES LEGEND

- BUILDING
- CURB AND GUTTER
- POST CURB
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY–DUTY ASPHALT
- LIGHT–DUTY ASPHALT



VICINITY MAP
NO SCALE



NOTES:

1. ALL SIGNS SHALL BE 3M, HIGH INTENSITY,REFLECTIVE MATERIAL.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
3. ALL STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR STREETS AND HIGHWAYS.
4. SIGNS TO BE PLACED 2' FROM BACK OF CURB SIGN HT. TO BE 7' FROM BOTTOM OF SIGN TO ROAD SURFACE.
5. ALL STRIPING TO BE 4" WIDE UNLESS OTHERWISE INDICATED.
6. ALL STRIPING TO BE THERMOPLASTIC.
7. OBLITERATE EXISTING STRIPING & RESTRIPE TO PROPOSED CONFIGURATION.

PAVEMENT MARKING

SSWL	SINGLE SOLID WHITE LINE
SBWL	SINGLE BROKEN WHITE LINE
DSYL	DOUBLE SOLID YELLOW LINE
SBYL	SINGLE BROKED YELLOW LINE
SSYL	SINGLE SOLID YELLOW LINE

G:\Projects\2017\514717001\dwg\Construction\514717001-C-C4.0 LAY.dwg-C4.0 LAY Apr 14, 2017 cpaul

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Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C4.0

DRAWING NAME
SITE LAYOUT

GRADING & DRAINAGE KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
G1a	CURB INLET	4/C7.2
G1b	DOUBLE CURB INLET	5/C7.2
G1c	TRIPLE CURB INLET	6/C7.2
G1d	DOUBLE CURB INLET (PUBLIC)	6/C7.1
G2a	CATCH BASIN	8/C7.1
G3	JUNCTION MANHOLE	1/C7.3
G4	NYLOPLAST JUNCTION	9/C7.3
G6	CONCRETE HEADWALL - WINGED	2/C7.3
G7	BUILDING ROOF LEADER CONNECTION	.
G9	BMP OUTLET STRUCTURE	6/C7.3
G15	RIPRAP AT HEADWALL	
G16a	LEVEL 2 BIORETENTION AREA	1, 2, 3/C7.2
G16b	FOREBAY BERM	4/C7.3
G16c	6" PERFORATED HDPE UNDERDRAIN	.
G17	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 5 FEET	.
G18	GRASS SWALE	5/C7.3

811
Know what's below.
Call before you dig.

PROPOSED FEATURES LEGEND

STORM PIPE & INLET
SPOT ELEVATION + 91.8
PROPOSED CONTOUR 90
DRAINAGE STRUCTURE C3

PHASE I
100,000 SF.
FFE = 628.0

NOTE:
REFER TO SHEET C5.1
FOR DRAINAGE TABLES.

0 20 40 80 120
GRAPHIC SCALE

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Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C5.0

DRAWING NAME
SITE GRADING & DRAINAGE

G:\Projects\2017\514717001\dwg\Construction\514717001-C-C5.0 GRA.dwg-C5.0 GRA Apr 14, 2017 cpaul

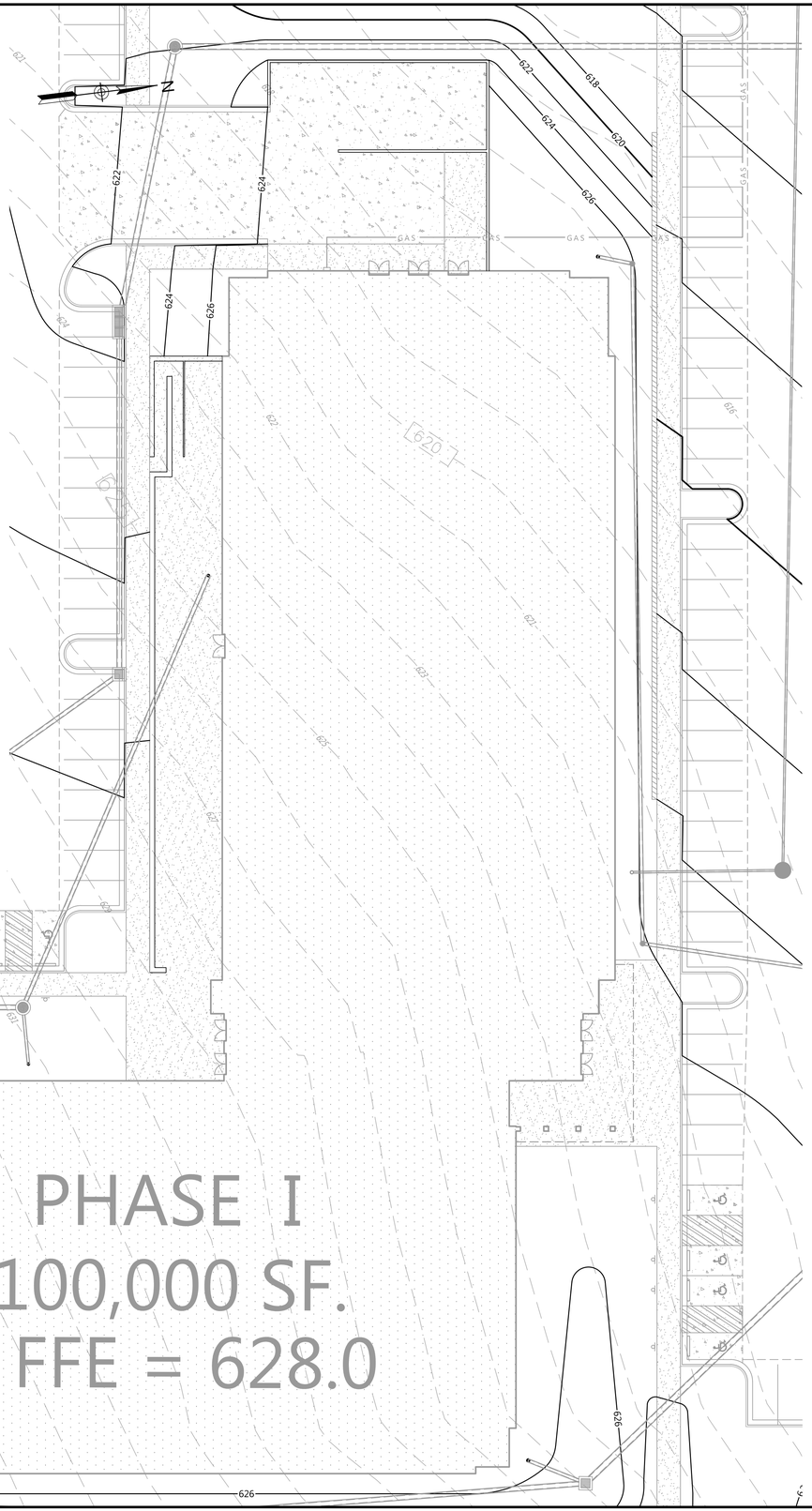
PIPE TABLE							
FROM CODE	FROM INV	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
A2	599.80	A1	599.00	1.37%	36"	59	RCP
A3	600.50	A2	600.00	1.35%	30"	37	RCP
A4	601.50	A3	600.70	0.72%	30"	111	RCP
A5	605.00	A4	601.70	1.25%	24"	263	RCP
A6	609.00	A5	605.20	2.76%	18"	138	RCP
A7	610.00	A6	609.20	2.36%	18"	34	RCP
A8	618.00	A7	610.20	6.72%	18"	116	RCP
A9	629.00	A8	618.20	7.20%	18"	150	RCP
A10	640.00	A9	629.20	7.20%	18"	150	RCP
A11	650.00	A10	640.20	6.53%	18"	150	RCP
A12	658.00	A11	650.20	7.10%	18"	110	RCP
A13	662.00	A12	658.20	3.79%	18"	100	RCP
A14	662.80	A13	662.20	2.25%	18"	27	RCP
B1	604.80	A2	600.00	3.88%	24"	124	HDPE
B2	608.30	B1	605.00	2.61%	24"	127	HDPE
B3	613.68	B2	608.50	2.49%	18"	208	HDPE
B4	617.80	B3	613.88	2.49%	18"	158	HDPE
B5	624.80	B4	618.00	4.92%	18"	138	HDPE
B6	630.00	B5	625.00	2.75%	18"	182	HDPE
C1	602.00	A4	601.50	1.09%	24"	46	HDPE
D1	606.00	B1	605.00	2.64%	12"	38	HDPE
E2	609.10	E1	609.00	0.50%	24"	20	RCP
E3	614.41	E2	609.30	1.90%	18"	270	HDPE
E4	616.20	E3	614.61	1.90%	18"	84	HDPE
E5	618.00	E4	616.20	1.71%	15"	105	HDPE
E6	621.00	E5	618.20	1.75%	12"	160	HDPE
F1	613.20		613.00	1.74%	15"	12	RCP
G1	613.80		613.00	6.95%	18"	12	RCP
G2	616.08	G1	614.00	1.02%	18"	204	HDPE
G3	618.70	G2	616.28	1.00%	15"	242	HDPE

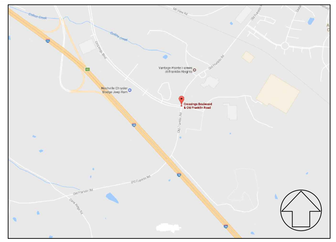
PIPE TABLE							
FROM CODE	FROM INV	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
G4	620.51	G3	618.90	1.00%	15"	161	HDPE
G5	621.40	G4	620.71	1.00%	15"	69	HDPE
G6	623.00	G5	621.60	1.00%	12"	140	HDPE
H1	608.80	B2	608.50	1.43%	18"	21	HDPE
H2	611.00	H1	609.00	3.78%	15"	53	HDPE
I2	616.40	I1	616.00	1.71%	18"	23	HDPE
I3	618.31	I2	616.60	1.31%	15"	131	HDPE
I4	620.39	I3	618.51	1.31%	15"	144	HDPE
I5	623.60	I4	620.59	2.08%	12"	144	HDPE
I6	626.00	I5	623.80	2.22%	12"	99	HDPE
I7	629.00	I6	626.20	7.66%	12"	37	HDPE
J1	626.00	I4	620.59	4.42%	12"	122	HDPE
K1	616.20	B3	613.88	11.01%	12"	21	HDPE
L1	620.00	B4	618.00	1.33%	18"	151	HDPE
M2	626.20	M1	626.00	1.01%	18"	20	HDPE
M3	627.00	M2	626.40	0.80%	18"	75	HDPE
M4	628.00	M3	627.20	0.55%	15"	146	HDPE
N2	609.20	N1	609.00	1.08%	15"	18	HDPE
O1	619.80	G1	614.00	4.41%	10"	132	HDPE
O2	622.60	O1	620.00	1.28%	10"	203	HDPE
O3	623.00	O2	622.80	1.92%	10"	10	HDPE
P1	623.00	G5	621.60	8.26%	8"	17	HDPE
Q1	623.00	G2	616.28	36.58%	10"	18	HDPE
R1	607.00	A5	605.20	5.19%	18"	35	HDPE

STRUCTURE TABLE		
CODE	DESCRIPTION	TOP GRATE
A1	6' HEADWALL	N/A
A2	36"X72" DOUBLE CURB INLET	605.80
A3	36"X72" DOUBLE CURB INLET	605.70
A4	48" CONCENTRIC MANHOLE	608.00
A5	48" CONCENTRIC MANHOLE	611.00
A6	36" CATCH BASIN	613.50
A7	36"X72" DOUBLE CURB INLET	614.80
A8	36"X72" DOUBLE CURB INLET	623.80
A9	36"X72" DOUBLE CURB INLET	635.60
A10	36"X72" DOUBLE CURB INLET	646.80
A11	36"X72" DOUBLE CURB INLET	656.75
A12	36"X72" DOUBLE CURB INLET	663.80
A13	36"X72" DOUBLE CURB INLET	667.90
A14	36" CATCH BASIN	667.50
B1	36"X72" DOUBLE CURB INLET	610.00
B2	36"X72" DOUBLE CURB INLET	614.70
B3	36"X72" DOUBLE CURB INLET	622.25
B4	36"X72" DOUBLE CURB INLET	628.75
B5	48" CONCENTRIC MANHOLE	633.25
B6	48" CATCH BASIN	637.00
C1	36" CATCH BASIN	609.00
D1	36"X72" DOUBLE CURB INLET	610.10
E1	6' HEADWALL	N/A
E2	36"X72" DOUBLE CURB INLET	612.00
E3	48" SLAB TOP MANHOLE	621.80
E4	36"X108" TRIPLE CURB INLET	621.80
E5	36"X36" SINGLE CURB INLET	625.00
E6	36"X72" DOUBLE CURB INLET	626.50
F1	36"X72" DOUBLE CURB INLET	617.00
G1	36"X36" SINGLE CURB INLET	621.90

STRUCTURE TABLE		
CODE	DESCRIPTION	TOP GRATE
G2	36" CATCH BASIN	624.50
G3	48" SLAB TOP MANHOLE	631.00
G4	48" SLAB TOP MANHOLE	627.75
G5	48" SLAB TOP MANHOLE	627.75
G6	ROOF LEADER	N/A
H1	36"X72" DOUBLE CURB INLET	614.70
H2	36" CATCH BASIN	617.00
I1	6' HEADWALL	N/A
I2	36"X72" DOUBLE CURB INLET	620.50
I3	36"X72" DOUBLE CURB INLET	626.00
I4	36"X72" DOUBLE CURB INLET	628.17
I5	48" CONCENTRIC MANHOLE	628.50
I6	36"X72" DOUBLE CURB INLET	633.00
I7	36"X72" DOUBLE CURB INLET	637.25
J1	36"X72" DOUBLE CURB INLET	630.50
K1	36"X72" DOUBLE CURB INLET	622.40
L1	36" CATCH BASIN	627.00
M1	6' HEADWALL	N/A
M2	36"X36" SINGLE CURB INLET	630.00
M3	36"X72" DOUBLE CURB INLET	632.25
M4	36"X72" DOUBLE CURB INLET	632.75
N1	6' HEADWALL	N/A
N2	36"X72" DOUBLE CURB INLET	612.00
O1	NYLOPLAST JUNCTION	626.50
O2	NYLOPLAST JUNCTION	626.25
O3	ROOF LEADER	N/A
P1	ROOF LEADER	N/A
Q1	ROOF LEADER	N/A
R1	36" CATCH BASIN	614.00

Know what's below.
Call before you dig.





VICINITY MAP
NO SCALE

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G1a	CURB INLET	4/C7.2
G1b	DOUBLE CURB INLET	5/C7.2
G1c	TRIPLE CURB INLET	6/C7.2
G1d	DOUBLE CURB INLET (PUBLIC)	6/C7.1
G2a	CATCH BASIN	8/C7.1
G3	JUNCTION MANHOLE	1/C7.3
G4	NYLOPLAST JUNCTION	9/C7.3
G6	CONCRETE HEADWALL - WINGED	2/C7.3
G7	BUILDING ROOF LEADER CONNECTION	.
G9	BMP OUTLET STRUCTURE	6/C7.3
G15	RIPRAP AT HEADWALL	
G16a	LEVEL 2 BIORETENTION AREA	1, 2, 3/C7.2
G16b	FOREBAY BERM	4/C7.3
G16c	6" PERFORATED HDPE UNDERDRAIN	.
G17	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 5 FEET	.
G18	GRASS SWALE	5/C7.3

IN ACCORDANCE WITH THE METRO STORMWATER MANAGEMENT MANUAL, VOLUME 1, SECTION 3.9, AS-BUILT CERTIFICATIONS, MWS STORMWATER DIVISION MUST APPROVE THE FOLLOWING AS-BUILTS PRIOR TO ISSUANCE OF THE USE AND OCCUPANCY PERMIT:

- A CERTIFICATION LETTER FROM TN REGISTERED P.E. STATING THAT THE SITE HAS BEEN INSPECTED AND THAT THE STORMWATER MANAGEMENT SYSTEM AND STORMWATER CONTROL MEASURES (BOTH STRUCTURAL AND NON-STRUCTURAL) ARE COMPLETE AND FUNCTIONAL IN ACCORDANCE WITH THE PLANS APPROVED BY MWS.
- AN AS-BUILT LID SPREADSHEET.
- HYDROLOGIC AND HYDRAULIC CALCULATIONS FOR AS-BUILT CONDITIONS, AS REQUIRED.
- AS-BUILT DRAWINGS SHOWING FINAL TOPOGRAPHIC FEATURES OF ALL THESE FACILITIES. THIS SHALL INCLUDE INVERT ELEVATIONS OF OUTLET CONTROL STRUCTURES.
- ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED ON AS-BUILT DRAWINGS SUBMITTED.
- COPY OF AS-BUILT PLAN CAD FILE ON A CD AND SHOULD BE REGISTERED TO THE TN STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83). DATA SHOULD BE PLACED IN SEPARATE LAYERS AND SHOULD BE LABELED / NAMED FOR EASY IDENTIFICATION.
- CUT AND FILL BALANCE CERTIFICATION FOR FLOODPLAIN AND SINKHOLE ALTERATIONS.
- WATER QUALITY BUFFERS SHALL BE SURVEYED AND INCLUDED WITH THE AS-BUILT SUBMITTAL.
- ANY PUBLIC (TO BECOME THE RESPONSIBILITY OF METRO TO MAINTAIN) STORMWATER INFRASTRUCTURE SHALL BE VIDEO-INSPECTED TO VERIFY PROPER INSTALLATION WITH THE VIDEO RECORDING AND ANY ASSOCIATED INSPECTION REPORT SUBMITTED AS PART OF AS-BUILT RECORD.
- ADDITIONAL TESTING MAY BE REQUIRED AS/IF WARRANTED BY VIDEO INSPECTION.

PROPOSED FEATURES LEGEND

STORM PIPE & INLET
SPOT ELEVATION + 91.8
PROPOSED CONTOUR 90
DRAINAGE STRUCTURE C3

0 10 20 40 60
GRAPHIC SCALE

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FINAL P.U.D.
LKQ OFFICE AT THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DESCRIPTION	DATE	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C5.1

DRAWING NAME
DETAILD GRADING & DRAINAGE TABLES

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UTILITY KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
U1a	WATER LINE (3")	
U1b	PUBLIC WATER LINE (6")	
U2a	FIRE LINE (6")	
U3a	IRRIGATION LINE (SPECIFY SIZE)	
U3b	IRRIGATION LINE (SPECIFY SIZE)	
U4a	WATER METER (SPECIFY SIZE)	
U4b	WATER METER (SPECIFY SIZE)	
U5	REDUCED PRESSURE BACKFLOW PREVENTER (3")	
U6	DOUBLE DETECTOR CHECK VALVE ASSEMBLY (6")	
U7	WATER BLOCKING/KICKERS	
U8	POST INDICATOR VALVE	
U9	FIRE DEPARTMENT CONNECTION	
U10	FIRE HYDRANT ASSEMBLY	
U11a	WATER VALVE (SPECIFY SIZE)	
U11b	WATER VALVE (SPECIFY SIZE)	
U12a	TEE (SPECIFY SIZE)	
U12b	TEE (SPECIFY SIZE)	
U20a	SANITARY SEWER LINE (6")	
U20b	SANITARY SEWER LINE (8")	
U21	SANITARY SEWER FORCE MAIN (SPECIFY SIZE)	
U22	SANITARY SEWER MANHOLE	
U23	SANITARY SEWER CLEANOUT	
U24	GREASE INTERCEPTOR	
U30	NATURAL GAS LINE	
U31	NATURAL GAS METER	
U40	ELECTRIC TRANSFORMER	
U41	UNDERGROUND ELECTRIC LINE	
U42	OVERHEAD ELECTRIC LINE	
U43	UNDERGROUND COMMUNICATION LINE	
U44	OVERHEAD COMMUNICATION LINE	
U45	SITE LIGHTING	
U46	CONDUIT SLEEVES (SPECIFY NUMBER & SIZE)	

Know what's below.
Call before you dig.

VICINITY MAP
NO SCALE

(PUBLIC) U22
SA1
U20b
20' PUBLIC SEWER EASEMENT
EX-MH
U30
GAS
U31
372 L.F. - 6" PVC @ 2.96%
U20a
U22 (PRIVATE)
SA2
U23
FH: STA. 0+15
HYDRANT
ASSEMBLY
LINE 1: STA. 3+17
8" 45° BEND
LINE 1: STA. 4+79
8"x6" TEE AND VALVE
LINE 1: STA. 4+89
8"x6" TEE
LINE 1: STA. 4+97
BLOW-OFF VALVE
LINE 2: STA. 0+05
6" PROP. LINE GATE
VALVE; END OF
PUBLIC WATER
IRRIGATION METER
AND BACKFLOW
DEVICE BY OTHERS
U6
U5
U1a
U2a
U1b
(TYP.)
RELOCATION OF EXISTING
STREET LIGHTING TO BE
COORDINATED WITH NES
LINE 1: STA. 0+00
12"x8" TAPPING
SLEEVE AND VALVE
PHASE I
100,000 SF.
FFE = 628.0
CROSSINGS BOULEVARD
(100' PUBLIC R.O.W.)
OLD FRANKLIN ROAD
(PUBLIC ROW VARIES)
TRACT G
(224)
LOT 18
RESUB OF LOT 2
THE CROSSINGS AT HICKORY HOLLOW PHASE 2
TRACT F
(176)
PORTION OF LOT
RESUBDIVISION OF LOT NO.
ON THE PLAN OF
THE CROSSINGS AT
HICKORY HOLLOW PHASE II
GRAPHIC SCALE
0 20 40 80 120

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PROJECT NUMBER
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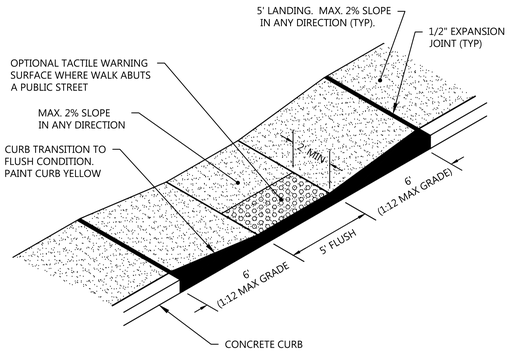
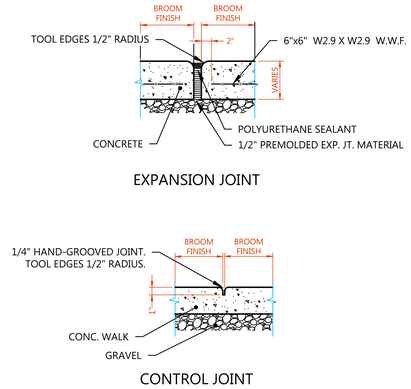
DRAWING NUMBER
C6.0

DRAWING NAME
SITE UTILITIES



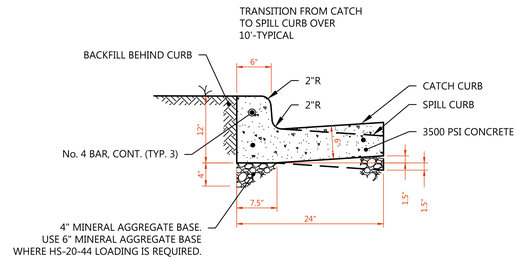
10 ACCESSIBLE RAMP - PARALLEL

NO SCALE



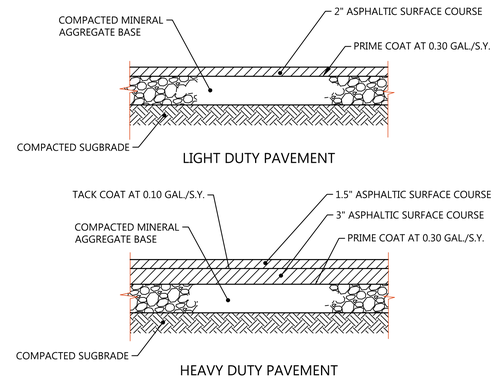
7 SIDEWALK JOINTS

NO SCALE



4 CONCRETE CURB AND GUTTER

NO SCALE

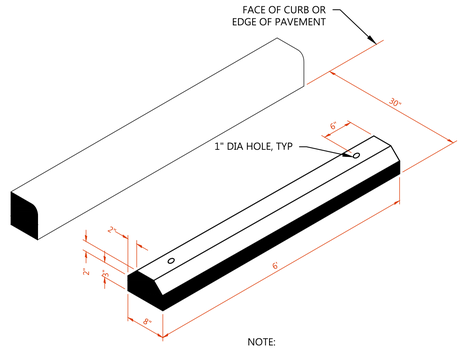


NOTE:

ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT USE THE PAVEMENT SECTIONS SHOWN ABOVE OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.

1 ASPHALT PAVEMENT

NO SCALE

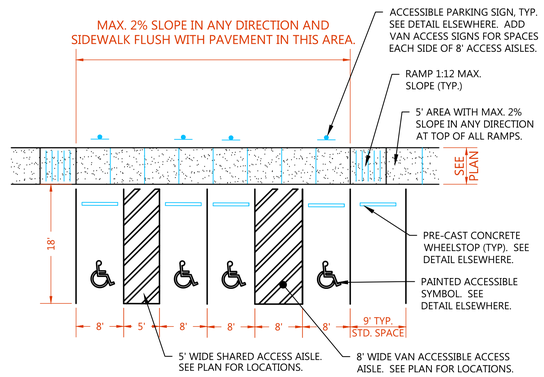


NOTE:

WHEEL STOPS REQUIRE TWO No. 5 X 24" STEEL BAR ANCHOR STAKES FOR EACH SECTION. EACH SECTION SHALL BE REINFORCED WITH TWO No. 3 DEFORMED BARS.

11 PRECAST CONCRETE WHEELSTOP

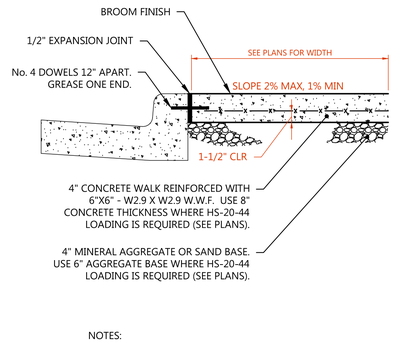
NO SCALE



ALL PAINTED SPACE LIMIT LINES SHOULD BE SOLID WHITE LINES 4" WIDE. MAXIMUM 2% SLOPE IN ANY DIRECTION FOR PARKING SPACES & ACCESS ISLES

8 ACCESSIBLE PARKING LAYOUT

NO SCALE

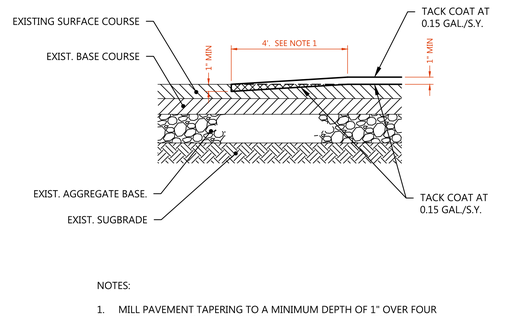


NOTES:

1. USE 4000 PSI CONCRETE AND GRADE 60 STEEL.
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART, AND WHERE SIDEWALKS ABUT RIGID MATERIALS.

5 SIDEWALK AT CURB AND GUTTER

NO SCALE

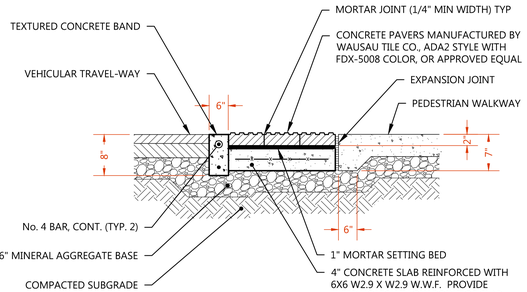


NOTES:

1. MILL PAVEMENT TAPERING TO A MINIMUM DEPTH OF 1" OVER FOUR FEET. APPLY TACK COAT BEFORE PLACING ASPHALT OVERLAY.
2. PAVEMENT DAMAGED DURING CONSTRUCTION TO A DEPTH GREATER THAN 1.25" SHALL BE REPLACED FULL-DEPTH. EXCEPT FOR MILLING AND OVEERLAY NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIR OF DAMAGE OCCURING DURING CONSTRUCTION.

2 PAVEMENT SURFACE OVERLAY

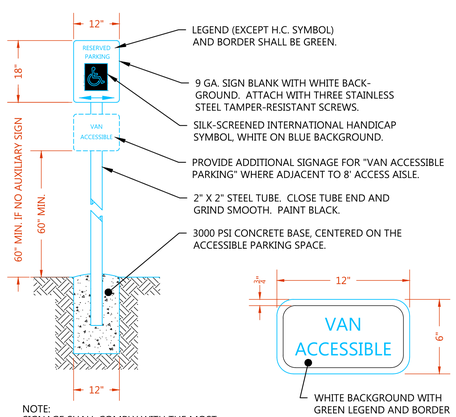
NO SCALE



SECTION "A - A"

12 TACTILE WARNING

NO SCALE

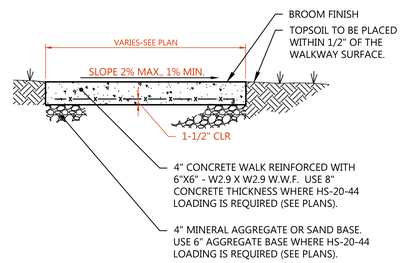


NOTE:
SIGNAGE SHALL COMPLY WITH THE MOST CURRENT AMERICANS WITH DISABILITIES ACT (A.D.A.) SIGNAGE GUIDELINES.

VAN ACCESS PLATE

9 ACCESSIBLE PARKING SIGN

NO SCALE

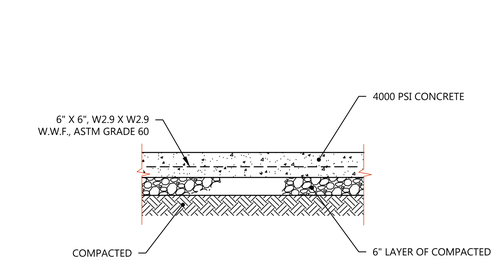


NOTES:

1. USE 4000 PSI CONCRETE AND GRADE 60 STEEL.
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART, AND WHERE SIDEWALKS ABUT RIGID MATERIALS.

6 CONCRETE SIDEWALK

NO SCALE



NOTE:

REINFORCING STEEL SHALL BE ASTM GRADE 60.

3 CONCRETE PAVEMENT

NO SCALE

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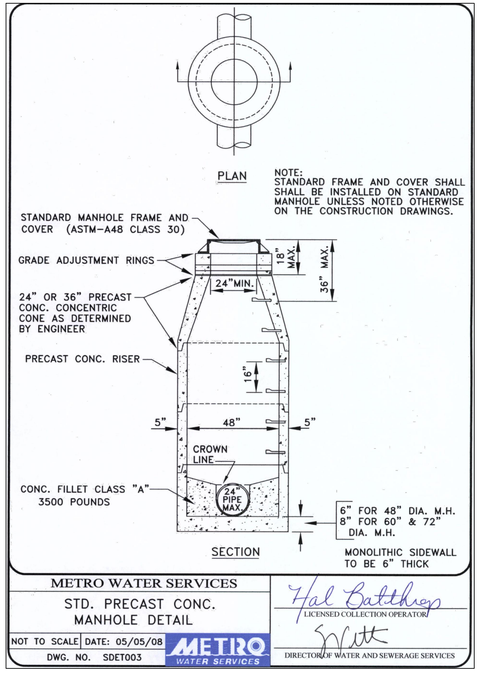
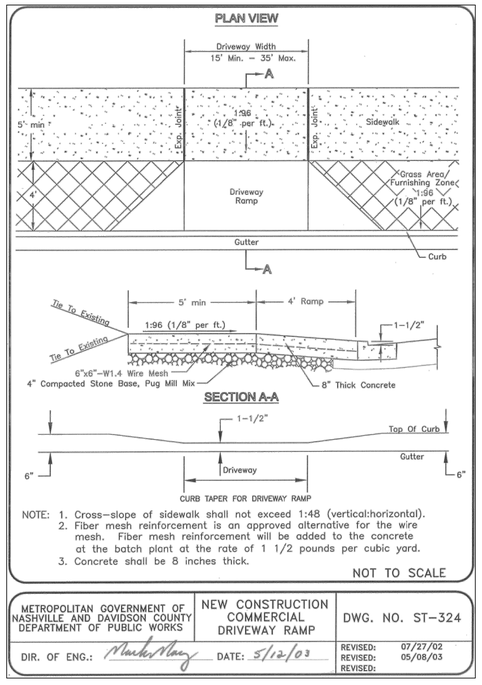
DRAWING NUMBER
C7.0

DRAWING NAME
SITE DETAILS



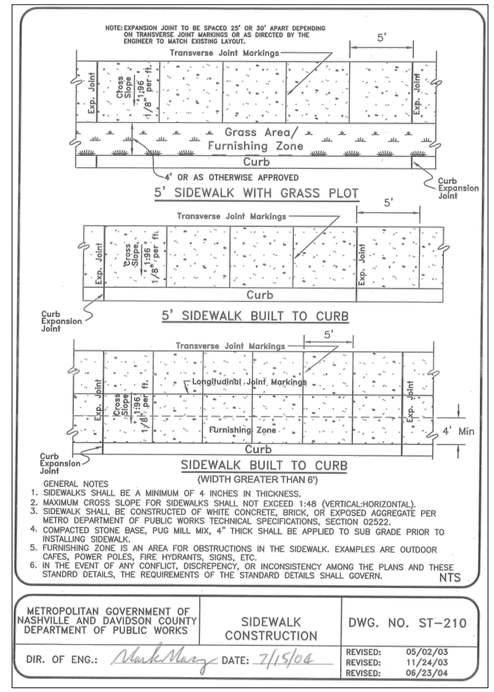
7 PUBLIC MANHOLE

NOT TO SCALE



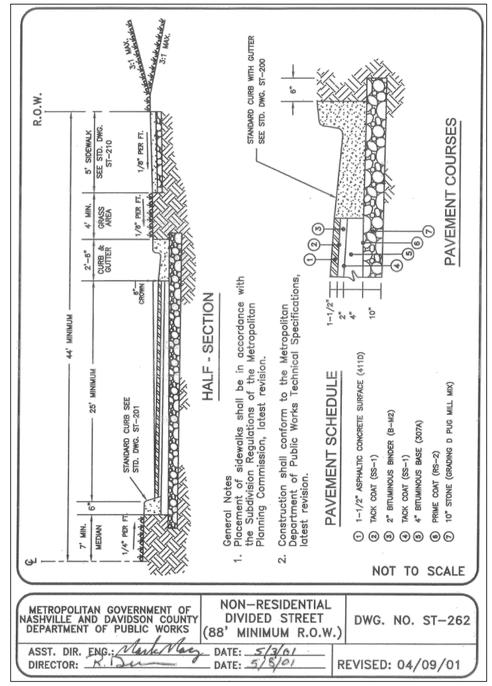
5 DRIVEWAY RAMP

NOT TO SCALE



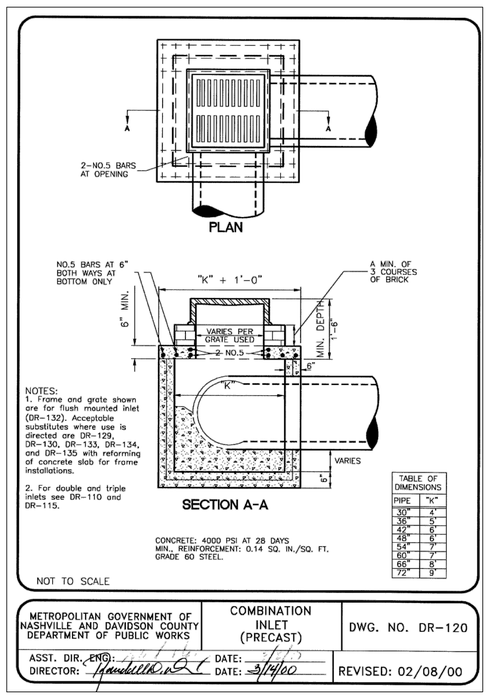
3 PUBLIC SIDEWALK

NOT TO SCALE



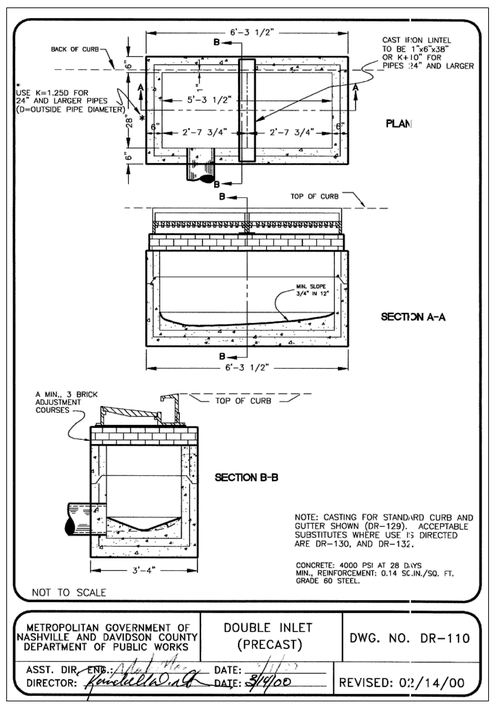
1 CROSSINGS BLVD CROSS-SECTION

NOT TO SCALE



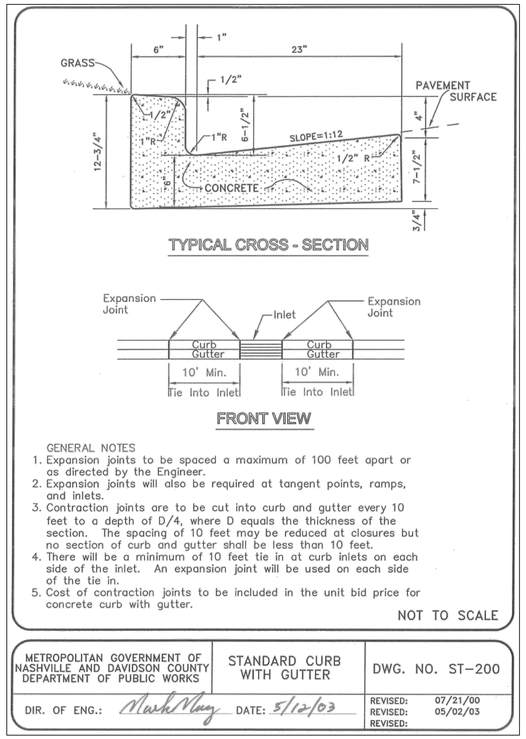
8 METRO CATCH BASIN

NOT TO SCALE



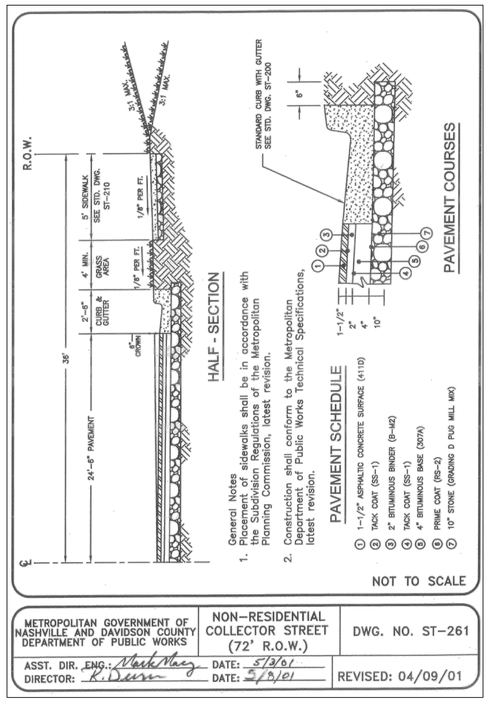
6 METRO DOUBLE CURB INLET

NOT TO SCALE



4 METRO CURB AND GUTTER

NO SCALE



2 OLD FRANKLIN RD CROSS-SECTION

NOT TO SCALE

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DRAWING NUMBER
C7.1

DRAWING NAME
SITE DETAILS

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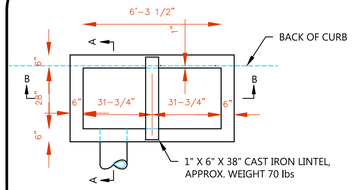
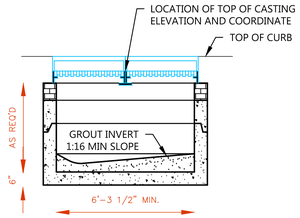
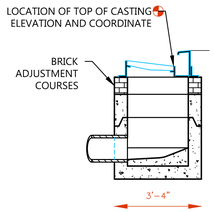


PLAN



SECTION B-B



SECTION A-A

NOTES:

1. CASTING FOR CURB AND GUTTER IS SHOWN. CASTINGS SHALL BE JOHN BOUCHARD AND SONS No. 3101 OR APPROVED EQUAL.
2. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
3. REINFORCE WITN No. 4 BARS, GRADE 60 12" APART EACH WAY.
4. A POURED-IN-PLACE BOX OF EQUAL DIMENSIONS IS ACCEPTABLE.
5. PROVIDE A REDUCER RING IF REQUIRED TO ACCOMMODATE THE PROPOSED CASTING.

5

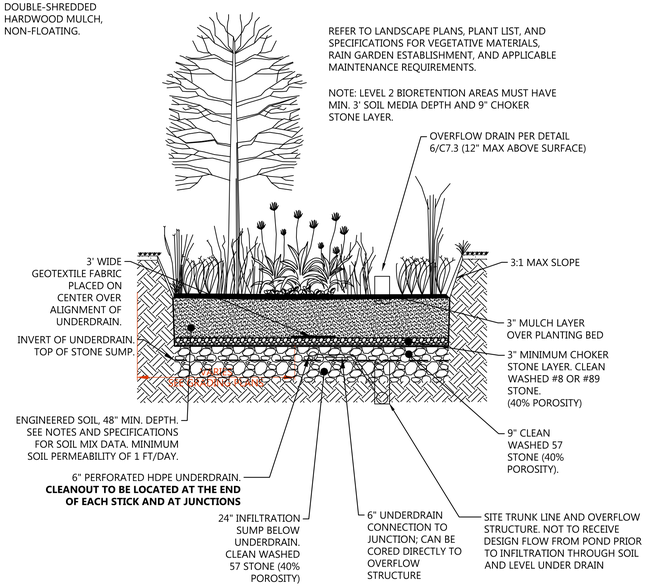
DOUBLE CURB INLET (PRIVATE)

NO SCALE

SOIL MEDIA
SAND : 70-85%
SILT & CLAY : 10-20%
ORGANIC MATTER : 5-10% (MAX)
CLAY : 10% (MAX)
MULCH
3" DEPTH
DOUBLE-SHREDDED HARDWOOD MULCH, NON-FLOATING.

REFER TO LANDSCAPE PLANS, PLANT LIST, AND SPECIFICATIONS FOR VEGETATIVE MATERIALS, RAIN GARDEN ESTABLISHMENT, AND APPLICABLE MAINTENANCE REQUIREMENTS.

NOTE: LEVEL 2 BIORETENTION AREAS MUST HAVE MIN. 3' SOIL MEDIA DEPTH AND 9" CHOKER STONE LAYER.



3

BIORETENTION AREA D

NOT TO SCALE

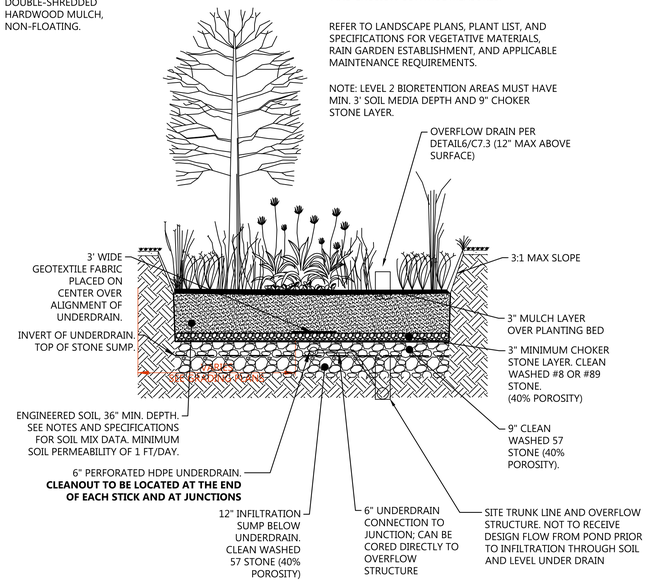
NOTE:
ALL BIORETENTION POND ELEVATIONS CALLED OUT ON C5.0

SOIL MEDIA
SAND : 70-85%
SILT & CLAY : 10-20%
ORGANIC MATTER : 5-10% (MAX)
CLAY : 10% (MAX)
MULCH
3" DEPTH
DOUBLE-SHREDDED HARDWOOD MULCH, NON-FLOATING.

REFER TO CIVIL PLANS FOR GARDEN LOCATION(S) AND GRADING, WATERSHED SIZE(S), INLET STRUCTURE(S) LOCATIONS AND ELEVATIONS, AND EROSION CONTROL MEASURES.

REFER TO LANDSCAPE PLANS, PLANT LIST, AND SPECIFICATIONS FOR VEGETATIVE MATERIALS, RAIN GARDEN ESTABLISHMENT, AND APPLICABLE MAINTENANCE REQUIREMENTS.

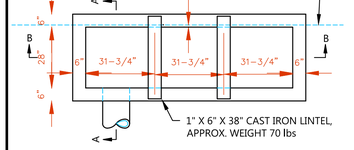
NOTE: LEVEL 2 BIORETENTION AREAS MUST HAVE MIN. 3' SOIL MEDIA DEPTH AND 9" CHOKER STONE LAYER.



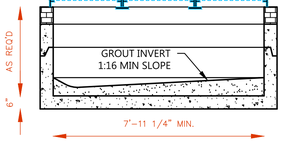
1

BIORETENTION AREA B & C

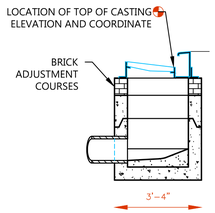
NOT TO SCALE



PLAN



SECTION B-B



SECTION A-A

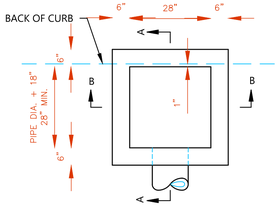
NOTES:

1. CASTING FOR CURB AND GUTTER IS SHOWN. CASTINGS SHALL BE JOHN BOUCHARD AND SONS No. 3101 OR APPROVED EQUAL.
2. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
3. REINFORCE WITN No. 4 BARS, GRADE 60 12" APART EACH WAY.
4. A POURED-IN-PLACE BOX OF EQUAL DIMENSIONS IS ACCEPTABLE.
5. PROVIDE A REDUCER RING IF REQUIRED TO ACCOMMODATE THE PROPOSED CASTING.

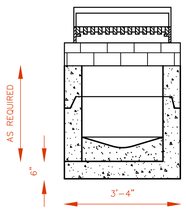
6

TRIPLE CURB INLET (PRIVATE)

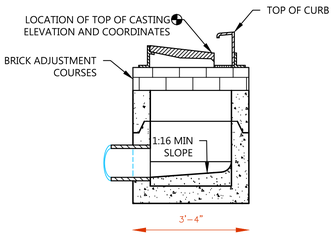
NO SCALE



PLAN



SECTION B-B



SECTION A-A

NOTES:

1. CASTING FOR CURB AND GUTTER SHOWN.
2. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
3. REINFORCE WITH No. 4 BARS, GRADE 60, SPACED 12" APART EACH WAY.
4. A CAST-IN-PLACE BOX OF EQUAL DIMENSIONS IS ACCEPTABLE.
5. PROVIDE A REDUCER RING AS REQUIRED TO ACCOMMODATE THE PROPOSED CASTING.
6. ADJUST STRUCTURE DIMENSIONS AS REQUIRED TO RECEIVE STORM PIPE AT OBLIQUE ANGLES.
7. FRAME AND GRATE SHALL BE JOHN BOUCHARD AND SONS MODEL No. 3101 OR APPROVED EQUAL.

4

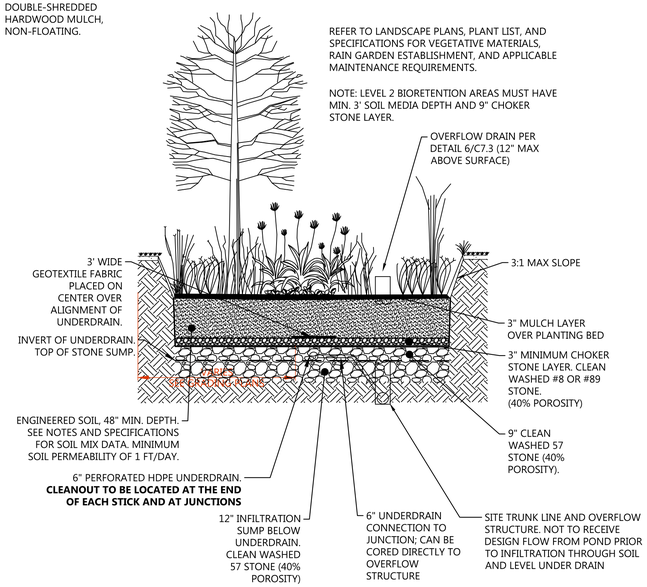
SINGLE CURB INLET (PRIVATE)

NO SCALE

SOIL MEDIA
SAND : 70-85%
SILT & CLAY : 10-20%
ORGANIC MATTER : 5-10% (MAX)
CLAY : 10% (MAX)
MULCH
3" DEPTH
DOUBLE-SHREDDED HARDWOOD MULCH, NON-FLOATING.

REFER TO LANDSCAPE PLANS, PLANT LIST, AND SPECIFICATIONS FOR VEGETATIVE MATERIALS, RAIN GARDEN ESTABLISHMENT, AND APPLICABLE MAINTENANCE REQUIREMENTS.

NOTE: LEVEL 2 BIORETENTION AREAS MUST HAVE MIN. 3' SOIL MEDIA DEPTH AND 9" CHOKER STONE LAYER.



2

BIORETENTION AREA A

NOT TO SCALE

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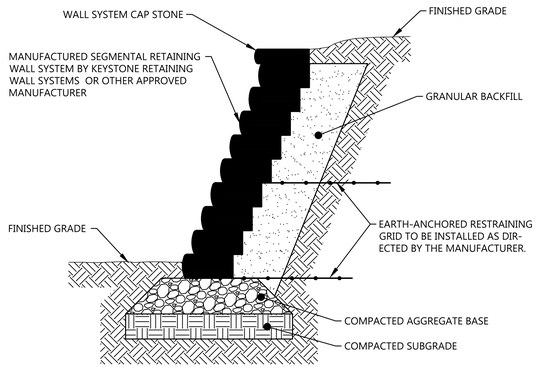
FINAL P.U.D.
LKQ OFFICE AT
THE CROSSINGS
5846 CROSSINGS BLVD
NASHVILLE, TENNESSEE 37013
Case No. 84-87P-004

NO.	DATE	DESCRIPTION	BY	CHK	APV

PROJECT NUMBER
514717001

DRAWING NUMBER
C7.2

DRAWING NAME
SITE DETAILS

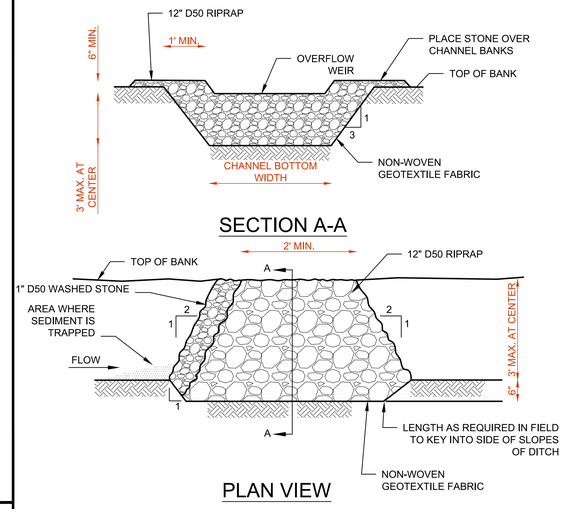


NOTE:

THIS DIAGRAM IS SCHEMATIC AND BASED ON ASSUMED SITE CONDITIONS. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS PREPARED BY A QUALIFIED ENGINEER AND SHALL SPECIFY THE SELECTED VENDOR.

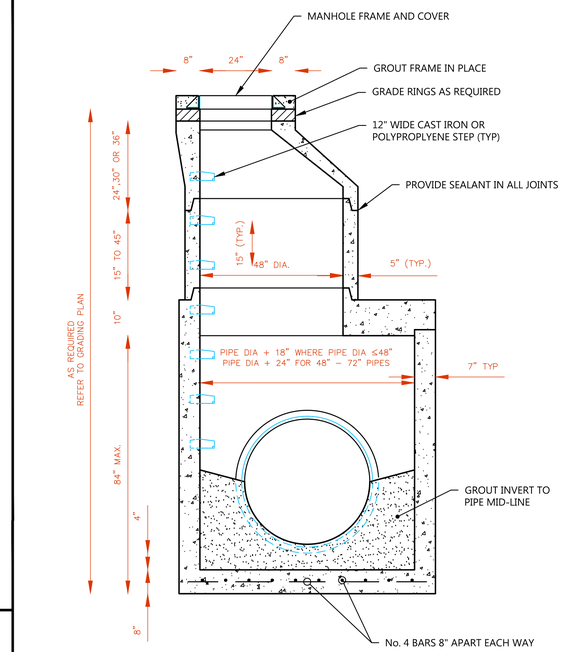
7 SEGMENTAL RETAINING WALL

NOT TO SCALE



4 STONE FOREBAY BERM

NO SCALE

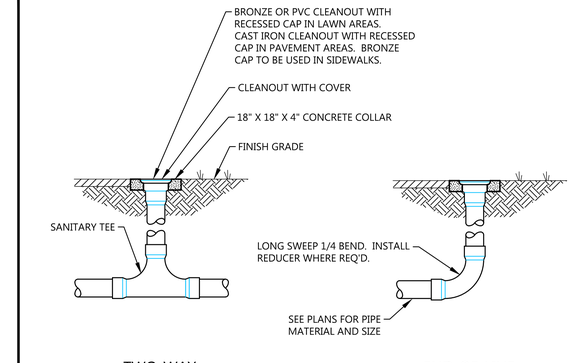


NOTES:

1. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS CURE.
2. REINFORCING STEEL SHALL CONFORM TO THE SPECIFICATIONS CONTAINED IN ASTM C-478.

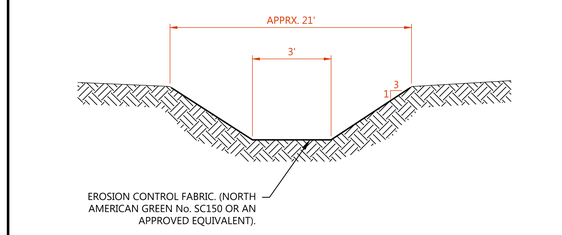
1 STORM JUNCTION MANHOLE (PRIVATE)

NO SCALE



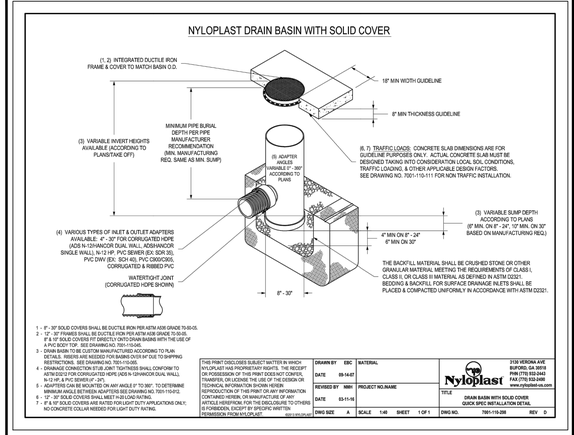
8 CLEANOUTS

NO SCALE



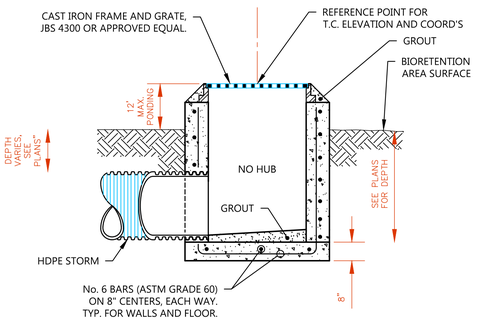
5 GRASS SWALE

NO SCALE



9 NYLOPLAST JUNCTION

NO SCALE



NOTES:

1. CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
2. PROVIDE REDUCER RING(S) AS NECESSARY TO ACCOMMODATE THE PROPOSED CASTING.
3. ADJUST STRUCTURE DIMENSIONS AS REQUIRED TO RECEIVE STORM PIPE AT OBLIQUE ANGLES.

6 BMP OUTLET

NO SCALE

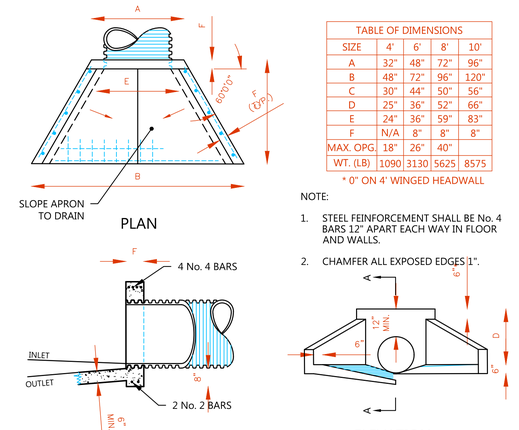


TABLE OF DIMENSIONS				
SIZE	4'	6'	8'	10'
A	32"	48"	72"	96"
B	48"	72"	96"	120"
C	30"	44"	50"	56"
D	25"	36"	52"	66"
E	24"	36"	59"	83"
F	N/A	8"	8"	8"
MAX. OPG.	18"	26"	40"	
WT. (LB)	1090	3130	5625	8575

* 0" ON 4' WINGED HEADWALL

NOTE:

1. STEEL FEINFORCEMENT SHALL BE No. 4 BARS 12" APART EACH WAY IN FLOOR AND WALLS.
2. CHAMFER ALL EXPOSED EDGES 1".

2 WINGED HEADWALL/ENDWALL

NO SCALE

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