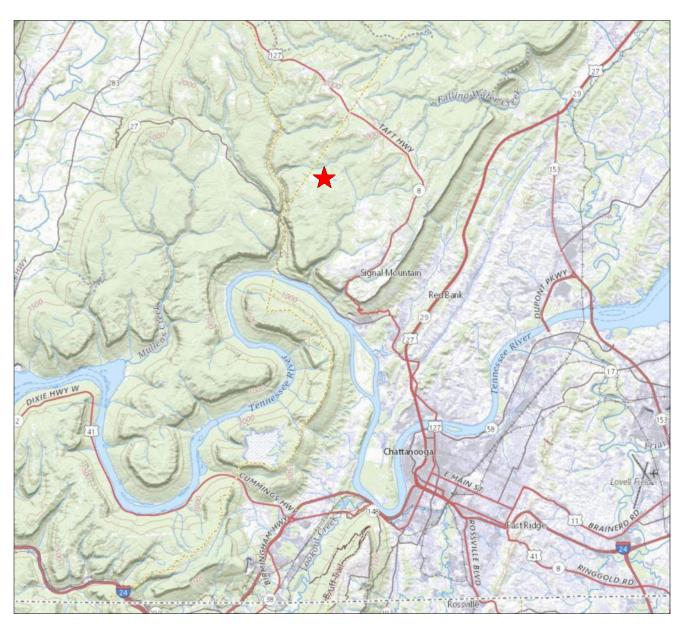
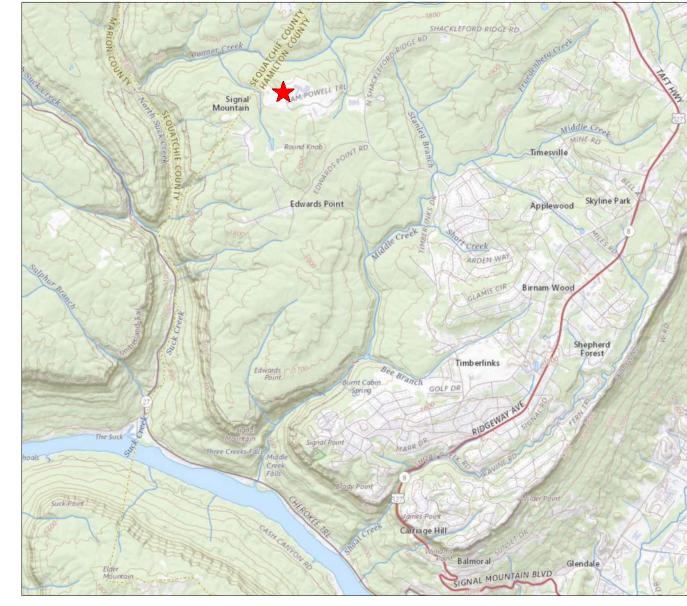
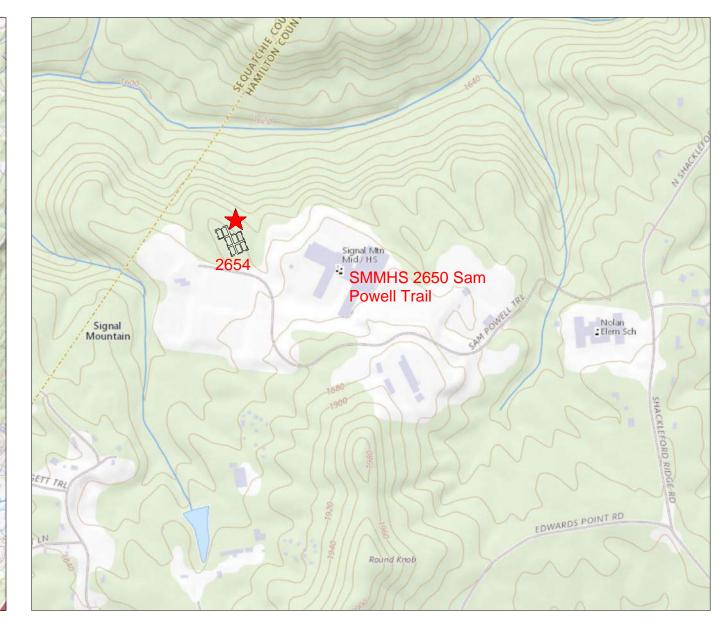
# SMMHS Tennis Courts Addition 2654 Sam Powell Trail Signal Mountain, TN 37377

**HCDE Bid 24-59** 







REGIONAL LOCATION MAP

AREA LOCATION MAP

SITE LOCATION MAP

# **BASE BID**

- ALL CLEARING, GRADING & EROSION CONTROL FOR COURTS 1-8
- COURT ASSEMBLIES 1 6
- LIGHT POLE BASES 1 6 WITH CONDUIT & PULL STRING
- SEEDING FOR COURTS 7 8 PADS
- GRAVEL PARKING
- GRAVEL PLAZA BETWEEN COURTS 1`-6
- REROUTE TRAIL
- WATER SERVICE, METER AND HYDRANT ASSEMBLY
- ELECTRICAL SERVICE TRANSFORMER, PAD AND DISTRIBUTION BOX ASSEMBLY
- SECURITY LIGHTING ASSEMBLIES (POLE, CONDUCTOR AND FIXTURES) FIXTURES TO BE PHOTOCELL CONTROLLED

# **ALTERNATE 1 (ADDITIVE)**

- TENNIS COURTS ASSEMBLIES 7 8
- LIGHT POLE BASES & CONDUIT FOR 7 8
- STORM DRAINAGE FOR COURTS 7 8
- PAVE PLAZA WITH ASPHALT, EXTEND TO END OF COURTS 7-8 (GRAVEL IS BASE BID)

# **ALTERNATE 2 (ADDITIVE)**

- LIGHT FIXTURES, POLES, CONDUCTORS, SWITCHES, AND TIMERS FOR LIGHTING COURTS 1-6

# SHEET LIST

Sheet Number	Sheet Name	Current Revision Date
General		
G000	COVER SHEET	
Civil		
C001	SITE SURVEY	
C100	SITE PLAN	
C200	EXISTING AND DEMOLITION	
C301	SITE GRADING	
C302	SITE DRAINAGE	
C400	SITE UTILITIES	
C500	SEDIMENT & EROSION CONTROL NOTES	
C501	SEDIMENT & EROSION CONTROL PHASE I	
C502	SEDIMENT & EROSION CONTROL PHASE II	
C600	GENERAL NOTES	
C700	SITE DETAILS	
C800	SITE DETAILS	
Architectur	e	
A100	SITE PLAN	
A101	Plan Detail-Typical Fencing and Court 1 Layout	

# DERTHICK, HENLEY AND WILKERSON, ARCHITECTS

1001 Carter Street Chattanooga, Tennessee 37402 Telephone: (423) 266-4816 Fax: (423) 267-8830 Contact: Andrew Hausler ahausler@dhw-architects.com

ELECTRICAL SITE PLAN

ELECTRICAL PHOTOMETRICS PLAN

**March Adams & Associates Civil and Electrical Engineering** 310 Dodds Avenue Chattanooga, TN 37404

Joseph Parks PE, Civil Engineering email: joe.parks@marchadams.com

Gary Ellis. F. E., Electrical Engineering email: gary.ellis@marchadams.com

# PROJECT SUMMARY

The Project consists of clearing, grading and construction required to install new Tennis Court assemblies. This requires installlation of utilities, repair of existing roadway where utilities cross Sam Powell Trail, maintenance of erosion control features, relocation of a portion of a walking trail, relocation of storage containers to a new location no more than 1/2 mile from current location, installation of new construction, including all components of Tennis Court Assemblies, seeding and stormwater management. Refer to drawings and Alternates for more information.

CODE REQUIREMENTS

**Applicable Codes:** 2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Code 2018 International Fire Code

2020 National Electrical Code 2018 International Energy Conservation Code 2017 ANSI (National Standard) Accessibility Code 2018 NPFA Life Safety Code

Climate Zone 4A

Occupancy Group N/A -Outdoor, not covered **Construction Type:** 

Fire Resistance Ratings per Table 601: Not Applicable

Area Summary: Not Applicable

Fire Suppression System: Not Applicable

**GENERAL NOTES** 

Contractor shall field verify all dimensions, elevations, and locations of existing conditions affecting this project, prior to fabrication or installation of new work. Notify architect of any discrepancies from dimensions shown, noted, or required. Adjust dimensions of new construction at direction of architect to allow for actual field conditions.

Where a detail is shown or note is described for one condition, it shall apply for all like or similar conditions even though not specifically noted on the

Refer to Electrical & Civil drawings for locations of Equipment.

Provide continuous separation between dissimilar materials as required to prevent galvanic corrosion.

G000

1001 Carter Street - Chattanooga - 3740

**SMMHS Tennis Courts Addition** 

**HCDE Bid 24-59** 

2654 Sam Powell Trail Signal Mountain, TN

Date: 03/29/24 Drawn: Wood File: 2235

Revisions

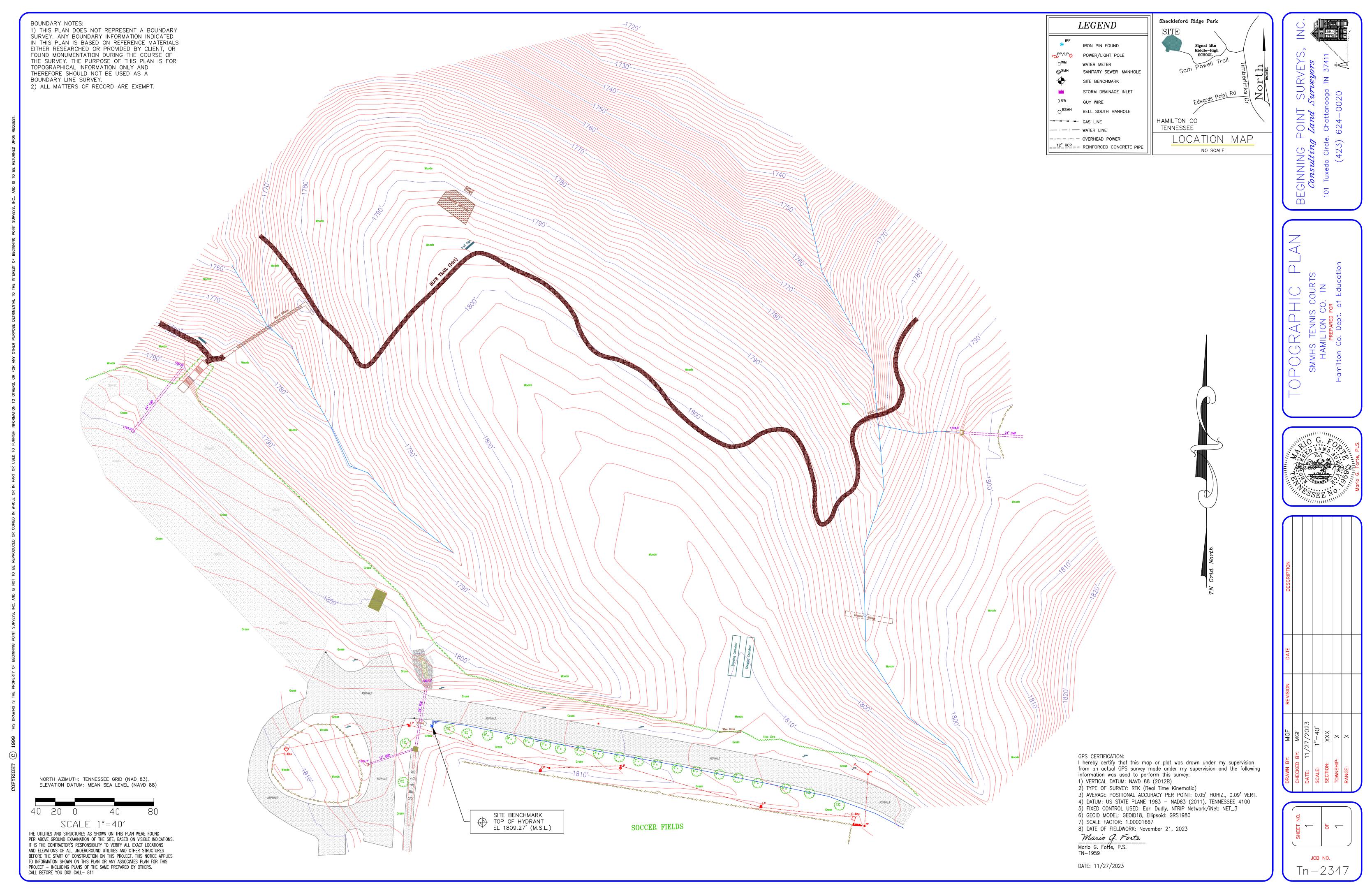


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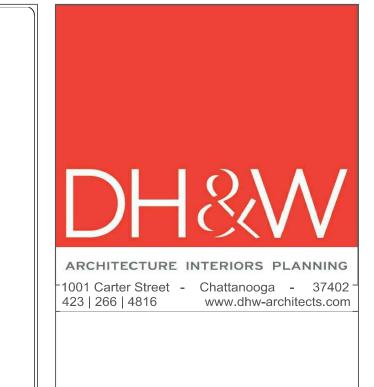
Bid Set

**COVER SHEET** 

Sheet No.







HCDE Bid 24-59

Sam Powell Trail Signal Mountain, TN 37377

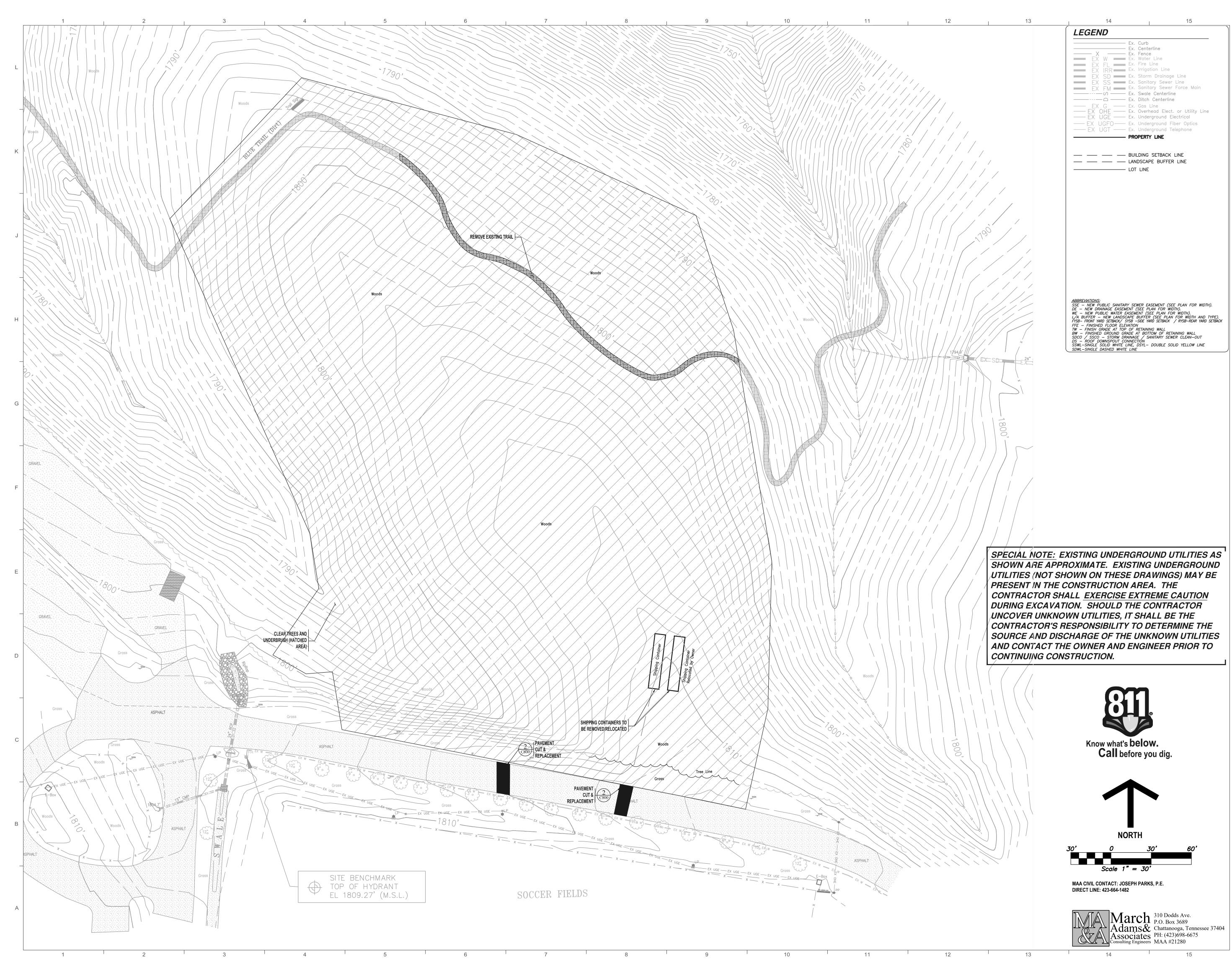
Date: 04/05/2024 Drawn: CH/JP

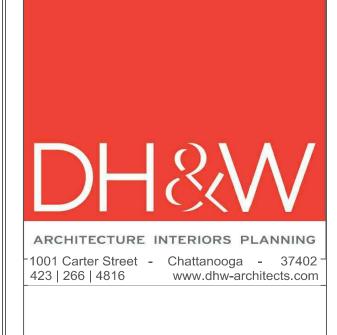
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SITE PLAN





HCDE Bid 24-59

Sam Powell Trail Signal Mountain, TN 37377

Date: 04/05/2024
Drawn: CH/JP
File: 2235

Revisions

Key Plan

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EXISTING
AND
DEMOLITION

Scale:

Sheet No.





ARCHITECTURE INTERIORS PLANNING

1001 Carter Street - Chattanooga - 37402 - 423 | 266 | 4816 www.dhw-architects.com

SMMHS Tennis Courts

HCDE Bid 24-59

Sam Powell Trail Signal Mountain, TN 37377

Date: 04/05/2024

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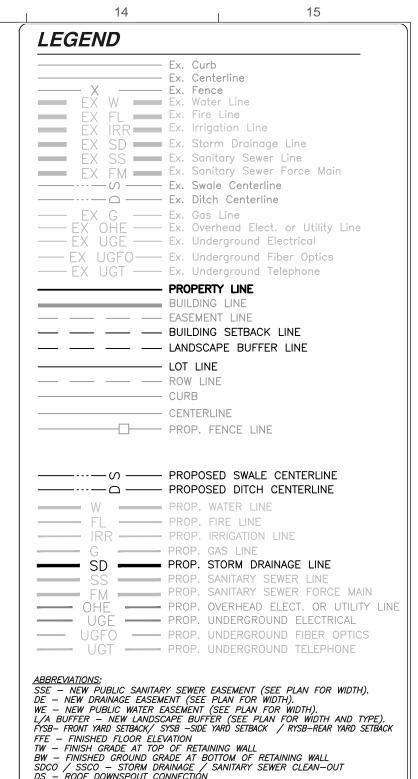


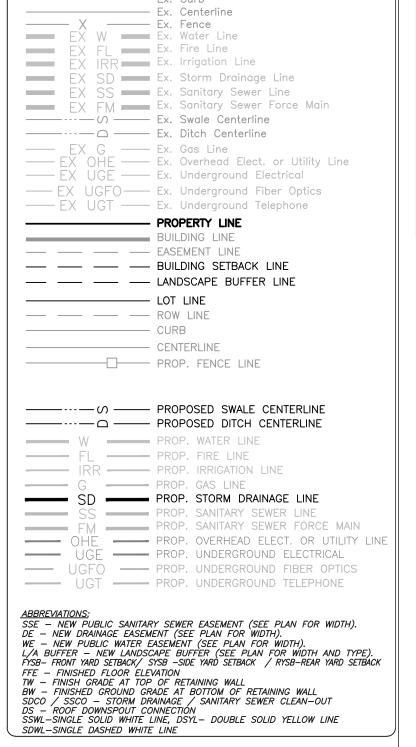
SITE GRADING

Scale:

Sheet No.









**HCDE Bid 24-59** 

Sam Powell Trail Signal Mountain, TN 37377

Date: 04/05/2024 Drawn: CH/JP File: 2235

Revisions

Key Plan

THE ARCHITECT.

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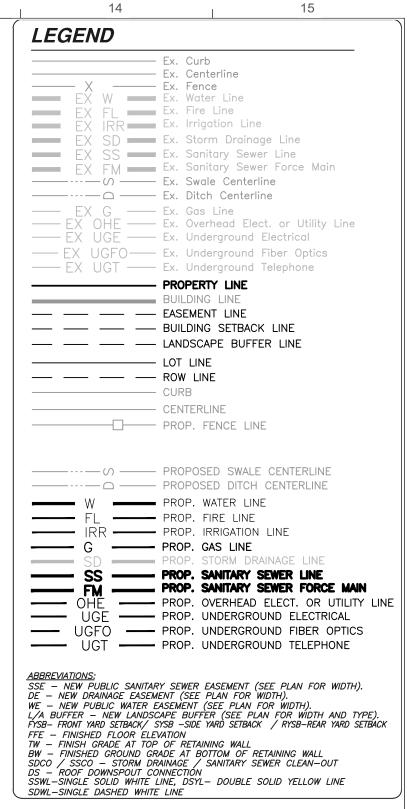


Title: SITE DRAINAGE

Scale:

Sheet No.







Sam Powell Trail Signal Mountain, TN 37377

Date: 04/05/2024 Drawn: CH/JP File: 2235

Revisions

Key Plan

Bid Set

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Title: SITE UTILITIES

Scale:

Sheet No.

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
	FIRST	6 - 12 - 12	1500 LBS./AC.	50 - 100 LBS./AC. 1/ 2/
1. COOL SEASON GRASSES	SECOND	6 - 12 - 12	1000 LBS./AC.	-
	MAINTENANCE	10 - 10 - 10	400 LBS./AC.	30
2. COOL SEASON GRASSES	FIRST	6 - 12 - 12	1500 LBS,/AC.	0 - 50 LBS./AC. 1/
AND LEGUMES	SECOND	0 - 10 - 10	1000 LBS./AC.	-
AND LEGUINES	MAINTENANCE	0 - 10 - 10	400 LBS./AC.	-
	FIRST	10 - 10 - 10	1300 LBS./AC. 3/	
3. GROUND COVERS	SECOND	10 - 10 - 10	1300 LBS./AC. 3/	
	MAINTENANCE	10 - 10 - 10	1100 LBS./AC.	
4. SHRUB LESPEDEZA	FIRST	0 - 10 - 10	700 LBS./AC.	
4. SHRUB LESPEDEZA	MAINTENANCE	0 - 10 - 10	700 LBS./AC. 4/	<del>-</del>
5. TEMPORARY COVER	FIRST	10 - 10 - 10	500 LBS./AC.	30 LBS./AC. 5/
CROPS SEEDED ALONE	MAINTENANCE	10-10-10	JUU LDJ./AC.	30 LD3,/AG, 3/
	FIRST	6 - 12 - 12	1500 LBS./AC.	50 - 100 LBS./AC. 2/ 6/
6. WARM SEASON GRASSES	SECOND	6 - 12 - 12	800 LBS./AC.	50 - 100 LBS./AC. 2/
	MAINTENANCE	10 - 10 - 10	400 LBS./AC.	30 LBS./AC.
7. WARM SEASON GRASSES	FIRST	6 - 12 - 12	1500 LBS./AC.	
AND LEGUMES	SECOND	0 - 10 - 10	1000 LBS./AC.	50 LBS./AC. 6/
AND LEGUINES	MAINTENANCE	0 - 10 - 10	400 LBS./AC.	

2. APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED. 3. APPLY IN 3 SPLIT APPLICATIONS. 4. APPLY WHEN PLANTS ARE PRUNED.

5. APPLY TO GRASS SPECIES ONLY.

1. DRY STRAW: 2 TONS PER ACRE. 2 DRY HAY: 2 - 1/2 TONS PER ACRE 3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS / ACRE 6. APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

FERTILIZER & MULCHING REQUIREMENTS

SPECIES	BR	OADCAST	RESOURCE	E PLANTING DATES												- REMARKS
	PER ACRE	PER 1000 S.F.	AREA	J	F	М	Α	М	J	J	А	S	0	N	D	REMARKS
BARLEY			M-L 4/													14,000 SEED PER POUND
(HORDEUM VULGARE)			P													WINTERHARDY USE ON PRODUCTIVE
ALONE	144 LBS.	3.3 LBS.	C													SOILS.
IN MIXTURES	24 LBS.	0.6 LBS.		J	F	M	Α	M	J	J	Α	S	0	N	D	OOIEG.
LESPEDEZA, ANNUAL			M-L													200.000 SEED PER POUND MAY
(LESPEDEZA STRAITA)			P			*******										VOLUNTEER FOR SEVERAL YEARS
ALONE	40 LBS.	0.9 LBS.	C													USE INOCULANT EL.
IN MIXTURES	10 LBS.	0.2 LBS.		J	F	M	Α	M	J	J	Α	S	0	N	D	USE INOCULANT EL.
LOVE GRASS, WEEPING			M-L													1.500.000 SEED PER POUND MAY
(ERAGROTIS CURVULA)			P													LAST FOR SEVERAL YEARS MIX WITH
ALONE	4 LBS.	0.1 LBS.	С													
IN MIXTURES	2 LBS.	0.05 LBS.		J	ΙF	М	Α	М	Γj	J	Α	S	0	N	D	SERICEA LESPEDEZA
MILLET, BROWNTOP			M-L													137,000 SEED PER POUND. QUICK
(PANICUM FASCICULATUM)			P													DENSE COVER. WILL PROVIDE TOO
ALONE	40 LBS.	0.9 LBS.	С													MUCH COMPETITION IN MIXTURES IF
IN MIXTURES	10 LBS.	0.2 LBS.		J	F	M	A	M	J	J	Α	S	0	N	D	SEEDED AT HIGH RATES.
RYE			M-L													18.000 SEED PER POUND, QUICK
(SECALE CEREALE)			P										*******			
ALONE	3 BU.	3.9 LBS.	С													COVER, DROUGHT TOLERANT AND
IN MIXTURES	1/2 BU.	0.6 LBS.		J	F	M	A	М	J	J	A	S	0	N	D	WINTERHARDY.
			M-L													227 OOO SEED DED DOUND DENSE
RYEGRASS, ANNUAL			Р													227,000 SEED PER POUND. DENSE
(LOLIUM TEMULENTUM)			l c													COVER. VERY COMPETITIVE & IS NOT
ALONE	40 LBS.	0.9 LBS.		J	F	M	Α	М	J	J	A	S	0	N	D	TO BE USED IN MIXTURES.

DISTURBED AREA STABILIZATION (TEMP)

SPECIES	BR	OADCAST	RESOURCE					PLA	ANTIN	G DA	TES					- REMARKS
SPECIES	PER ACRE	PER 1000 S.F.	AREA	J	F	M	Α	М	J	J	Α	S	0	N	D	REMARKS
BERMUDA, COMMON HULLED SEED ALONE W/ OTHER PERSONNELS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C	J	F	M	A	M	J	J	А	S	0	N	D	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON UNHULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	C	J	F	M	A	M	J	J	A	S	0	N	D	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLOC	K SOD ONLY	PC	J	F	М	A	M	J	J	A	S	0	N	D	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONC. & IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES.
CROWNVETECH, (CORONILLA VARIA) WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LBS.	M-L P	J	F	М	A	M	J	J	A	S	0	N	D	100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT & FIRE RESISTANT. USE FROM NORTH ATLANTA AND NORTHWARD.
FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE W/ OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	M-L P	J	F	M	A	M	J	J	A	S	0	N	D	227,000 SEED PER POUND. USE ALONE ONLY O BETTER SITES. NOT FOR DROUGHTY SOILS. NO FOR HEAVY USE.
LESPEDEZA (AMBRO VIRGATA) SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	M-L P C	J	F	М	A	M	J	J	A	S	0	N	D	300,000 SEED PER POUND. HEIGHT OF GROWTI IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS. MIX W/ WEEPING LOVE GRASS, COMMO BERMUDA BAHIA, TALL FESCUE, OR WINTER ANNUALS. INOCULATE SEED W/ INOCULANT.

DISTURBED AREA STABILIZATION (PERM)

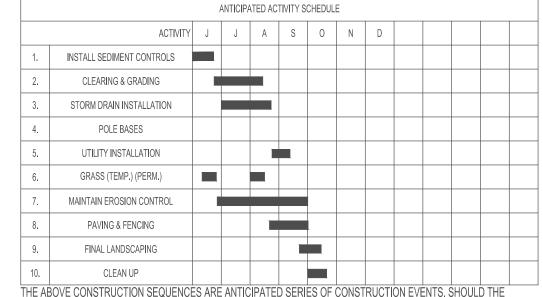
# SEDIMENT & EROSION CONTROL NOTES

CONTRACTOR IS TO ADHERE TO THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK; & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF SIGNAL

- 2. CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS & PER THE TN EROSION & SEDIMENT CONTROL HANDBOOK & THE REQUIREMENTS OF THE CITY OF SIGNAL MOUNTAIN.
- 3. SEDIMENT & EROSION CONTROL FACILITIES, & STORM DRAINAGE FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY OTHER CONSTRUCTION.
- 4. SEDIMENT & EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE & UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED. 5. ALL GRADED AREAS SHALL BE STABILIZED WITH A TEMPORARY FAST GROWING COVER AND/OR MULCH, NO LATER THAN 2
- WEEKS AFTER EARTH DISTURBING ACTIVITY ENDS IN THOSE AREAS WHERE GRADING ACTIVITY HAS CEASED & FINE GRADING WILL NOT TAKE PLACE FOR AT LEAST 15 DAYS.
- 6. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILTS &
- 7. SEEDING & FERTILIZING RATES FOR TEMPORARY AND PERMANENT STANDS OF GRASS SHALL BE PER CHARTS ON DETAIL
- 8. ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED. 9. SILT FENCE AND/OR SILT LOGS SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO 50% CAPACITY OF SILT FENCE AND/OR SILT LOGS.
- AND/OR SEDIMENT CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES OR THE COST OF ANY FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT. 11. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 12. CONSTRUCTION EXIT SHALL BE MAINTAINED ON A CONTINUOUS BASIS. 13. THE CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT & CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY SMALL TEMPORARY SEDIMENT POINTS. SILT FENCES OF STEEL WIRE & BURLAP OR BARRIERS OF CEDAR TREES AND/OR BALES OF STRAW. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION, CONSERVATION, & SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL
- TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES & THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION. 14. CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S
- REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER. 15. CONTRACTOR TO COMPLY WITH ALL STATE & LOCAL SEDIMENT CONTROL & AIR POLLUTION ORDINANCES OR RULES. ALL DISTURBED AREA TO BE GRASSED.
- 17. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES & SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS, & SILT FENCES AS NEEDED.
- 18. ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE. 19. ALL AREAS NOT OTHERWISE SURFACES ARE TO BE SEEDED, LANDSCAPED, MULCHED, WATERED & MAINTAINED UNTIL AN ADEQUATE STAND OF GRASS IS OBTAINED. 20. SEEDING & FERTILIZING RATES FOR TEMPORARY & PERMANENT STANDS OF GRASS SHALL BE PER THE CITY OF SIGNAL
- MOUNTAIN BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER DEPARTMENT OF PUBLIC WORKS FOR THE CITY 21. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN 25 OR 50 - FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

MULCHING APPLICATION REQUIREMENTS STRAW OR HAY 2-1/2 TONS/ACRE WOOD WASTE, CHIPS, 6 TO 9 TONS/ACRE SAWDUST, BARK 1200 GAL. /ACRE OR 1/4 CUTBACK ASPHALT GAL./SY POLYETHYLENE FILM SECURE WITH SCIE, ANCHORS, WEIGHTS CUTBACK ASPHALT SEE MANUFACTURER'S GEOTEXTILES, JUTE RECOMMENDATIONS MATTING, NETTING, ETC RATE

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)



THE ABOVE CONSTRUCTION SEQUENCES ARE ANTICIPATED SERIES OF CONSTRUCTION EVENTS. SHOULD THE SEQUENCES OF EVENTS CHANGE SIGNIFICANTLY, THE CONTRACTOR SHALL UPDATE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED.

CONTRACTOR TO AMEND 24 HOUR EMERGENCY CONTACT: COMPANY: ADDRESS: CITY/STATE/ZIP:

CONTRACTOR TO AMEND OWNERS REPRESENTATIVE RESPONSIBLE FOR EROSION **CONTROL IS** 

REPRESENTATIVE MUST BE TNEPSC LEVEL I CERTIFIED

CITY OF SIGNAL MOUNTAIN SPECIAL NOTE: SITE EROSION CONTROLS SHALL BE CHECKED AND, IF NECESSARY, REPAIRED WEEKLY & WITHIN 24 HOURS OF EACH RAINFALL GREATER THAN 1/2". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY THE PERMITEE SHALL MAINTAIN RECORD OF SUCH CHECKS & REPAIRS. THESE RECORDS MUST BE KEPT ON-SITE OR IN THE OFFICE OF THE RESPONSIBLE PERSON & AVAILABLE FOR REVIEW AT ANY TIME BY STORM WATER PERSONNEL. THESE RECORDS MUST BE SUBMITTED TO THE STORM WATER OFFICE ON A YEARLY BASIS. PROJECTS PERMITTED UNDER THE STATE NPDES PERMIT PROGRAM MUST FOLLOW ITS REQUIREMENTS. USE OF THAT INSPECTION FORM IS PERMITTED INSTEAD OF CITY SELF INSPECTION FORM. SEE ALSO "NOTES & CHARS" SHEET FOR ADDITIONAL NOTES.

# LAND DISTURBING ACTIVITY NOTES:

OFFICE PHONE:

VEGETATION: TOP SOIL WILL BE SALVAGED, STOCK PILED & SPREAD ON AREAS TO BE VEGETATED. TREES OUTSIDE OF THE CLEARING LINE WILL BE PROTECTED FROM DAMAGE BY APPROPRIATE MARKINGS. SUPPLEMENTAL VEGETATION WILL BE ESTABLISHED.

EROSION CONTROL PROGRAM: CLEARING WILL BE KEPT TO A MINIMUM. VEGETATION & MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED, LAND DISTURBING WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE

INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.

SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF SEDIMENT BASINS, SEDIMENT FENCES & ADDITIONAL MEASURES AS REQUIRED, DIVERSIONS & DIKES WILL BE INSTALLED TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT BASINS & TO PROTECT CUT AND FILL SLOPES FROM EROSIVE WATER FLOWS. A TEMPORARY CONSTRUCTION EXIT WILL BE EMPLOYED TO PREVENT THE TRANSPORT OF SEDIMENT FROM SITE BY VEHICULAR TRAFFIC.

STANDARDS & SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS & SPECIFICS OF THE PUBLICATION ENTITLED "THE GEORGIA EROSION & SEDIMENT CONTROL HANDBOOK: & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF

MAINTENANCE PROGRAM: SEDIMENT & EROSION CONTROL MEASURES WILL BE INSPECTED DAILY, ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY, CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS & SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. SEDIMENT BASINS & BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. SEDIMENT BASINS, THE SEDIMENT FENCES, & THE BARRIERS WILL THEN BE REMOVED & THE AREAS OCCUPIED BY THESE STRUCTURES VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

CONCRETE TRUCKS: THE CONTRACTOR SHALL PROVIDE A BERMED AREA FOR CONCRETE TRUCKS TO "WASH-DOWN". CONTRACTOR TO PERIODICALLY REMOVE

# IF IMPAIRED OR HIGH QUALITY ONLY

ALTERED IF NECESSARY TO ALLOW STAPLES TO

SECURE THE CRITICAL POINTS ALONG THE

\*\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE

OR STAKE LENGTHS GREATER THAN 6"(15CM) MAY

BE NECESSARY TO PROPERLY SECURE THE

CHANNEL SURFACE.

SITE EROSION CONTROLS SHALL BE CHECKED AND, IF NECESSARY, REPAIRED WEEKLY & WITHIN 24 HOURS OF EACH RAINFALL GREATER THAN 1/2". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY. IN ADDITION TO REGULAR TWICE WEEKLY, INSPECTIONS.

CHANNEL

INSTALLATION

DETAIL

LIME. FERTILIZER. AND SEED.

. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL

PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF

BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECPS IN A

6"(15CM) DEEP X 6"(15CM) WIDE TRENCH WITH APPROXIMATELY

12"(30CM) OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF

SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12"

3. ROLL CENTER RECPS IN DIRECTION OF WATER FLOW IN BOTTOM OF

CHANNEL. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST

THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO

SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE

4. PLACE CONSECUTIVE RECPS END-OVER-END (SHINGLE STYLE) WITH A

4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4"

5. FULL LENGTH EDGE OF RECPS AT TOP OF SIDE SLOPES MUST BE

6. ADJACENT RECPS MUST BE OVERLAPPED APPROXIMATELY 2"-5"

7. IN HIGH FLOW CHANNEL APPLICATIONS A STAPLE CHECK SLOT IS

RECOMMENDED AT 30 TO 40 FOOT (9 -12M) INTERVALS. USE A DOUBLE

ROW OF STAPLES STAGGERED 4"(10CM) APART AND 4"(10CM) ON

B. THE TERMINAL END OF THE RECPS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN A 6"(15CM)

DEEP X 6"(15CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH

ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY

12"(30CM) APART IN A 6"(15CM) DEEP X 6"(15CM) WIDE TRENCH.

LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.

BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

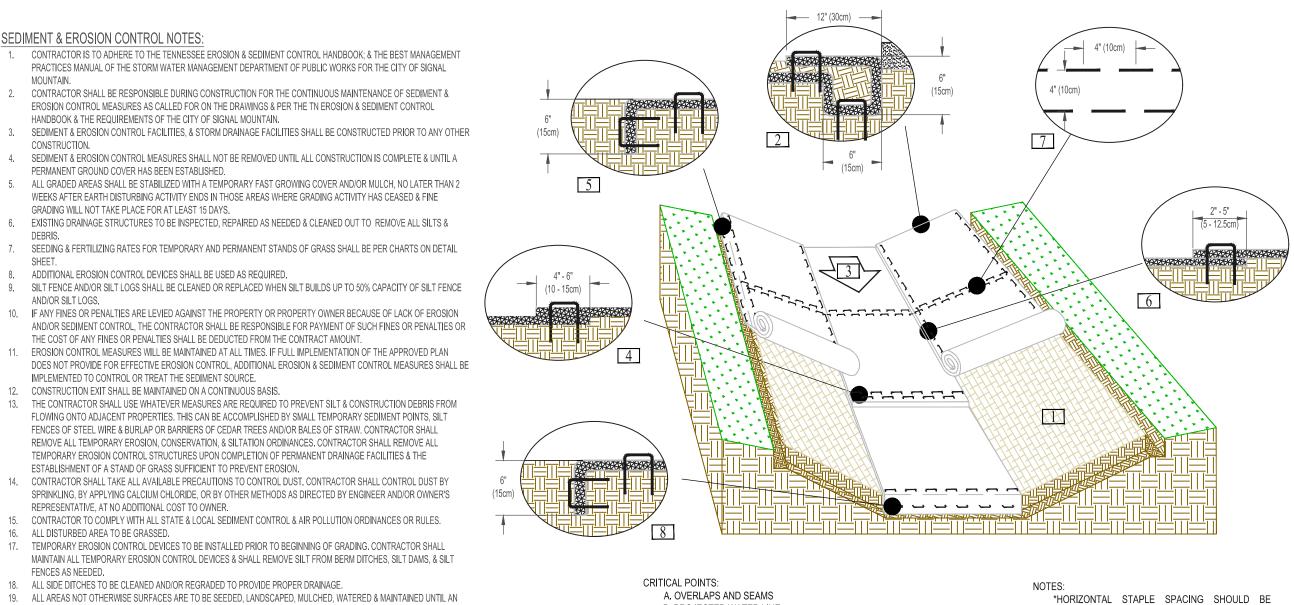
(5-12.5CM) (DEPENDING ON RECPS TYPE) AND STAPLED.

CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

AFTER STAPLING.

APART ACROSS THE WIDTH OF THE RECPS.

APART AND 4" ON CENTER TO SECURE RECPS.



B. PROJECTED WATER LINE

C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

Mb DETAIL: MATTING AND BLANKETS IN CHANNELS
(NTS)

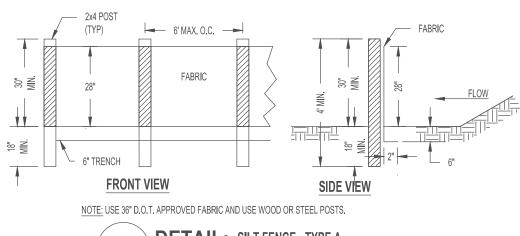
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES.

## TOPSOIL STOCKPILE AREA SHALL BE COVERED WITH BLACK PLASTIC.

10

WIDTH OF FABRIC 1. ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS TYPE A (36") 2. WHERE THE SLOPE GRADIENT IS STEEPER THAN 3: 1. ON PROJECTS, SUCH AS RESIDENTIAL HOME SITES OR SMALL COMMERCIAL DEVELOPMENTS, WHERE THE TYPE B (22") LIFE OF THE PROJECT IS LESS THAN 6 MONTHS. WHERE THE SLOPE GRADIENT IS LESS THAN OR EQUAL TO 3 TYPE C (36") W/ WOVEN 1. WHERE THE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE GRADIENT IS STEEPER WIRE REINFORCEMENT THAN 3:1

			POST SIZE					
	MINIMUM LENG	STH	TYP	E OF POST		SIZE OF POST		
TYPE A	4'		SC	FT WOOD OAK		3" DIA. OR 2X4 1.5" X 1.5"		
			0.0	STEEL		1.3 LB./FT. MIN.		
TYPE B	3'			FT WOOD OAK	2" DIA. OR 2X2 1" X 1"			
TYPE C	4'			STEEL STEEL	0.75 LB./FT. MIN. 1.3 LB./FT. MIN.			
		FASTE	NERS FOR WOO	D POSTS				
WIRE STAPLES	GAUGE 17 MIN		OWN WIDE	<u>LEGS</u> 1/2" LONG		STAPLES/POST 5 MIN.		
NAILS	GAUGE 14 MIN	LEN	IGTH 1"	BUTTON HEADS 3/4"		NAILS/POST 4 MIN.		
	NOTE: FILTER FABRIC N	MAY ALSO BE A	TTACHED TO TH	IE POST BY WIRE, COR	D, AND PO	CKETS		



10' MIN. -| N | N | N | N | N | N | STEEL WIRE STAPLE DETAIL 1/1 1 1 1 1 1 48" X 24" NOT TO SCALE PAINTED WHITE TYPE "ABOVE GRADE" WITH STRAW BALES 6" HEIGHT STAPLES (2 PER BALE) BINDING WIRE (OR EQUIVALENT) PLASTIC LINING

WOOD OR -NATIVE MATERIAL -METAL STAKES ACTUAL LAYOUT DETERMINED IN (2 PER BALE) THE CONCRETE WASHOUT SIGN SECTION B-B SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY

**DETAIL:** CONCRETE WASHOUT

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6"(15CM) DEEP > 6"(15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12"(30CM) PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12"(30CM) APART ACROSS THE WIDTH OF THE

CONCRETE WASHOUT FACILITY.

THE TRENCH, USE SHOREMAX MAT AT THE CHANNEL/CULVERT OUTLET AS SUPPLEMENTAL SCOUR PROTECTION AS NEEDED. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12"(30CM) B. ROLL THE RECPS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPS WILL APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE FOLD THE REMAINING 12"(30CM) PORTION OF RECPS BACK OVER THE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. SEED AND COMPACTED SOIL SECURE RECPS OVER COMPACTED 4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5"

(5-12.5CM) OVERLAP DEPENDING ON THE RECPS TYPE. 5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3"(7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12"(30CM) APART ACROSS ENTIRE RECPS WIDTH.

> DETAIL IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6"(15CM) MAY BE NECESSARY TO PROPERLY SECURE

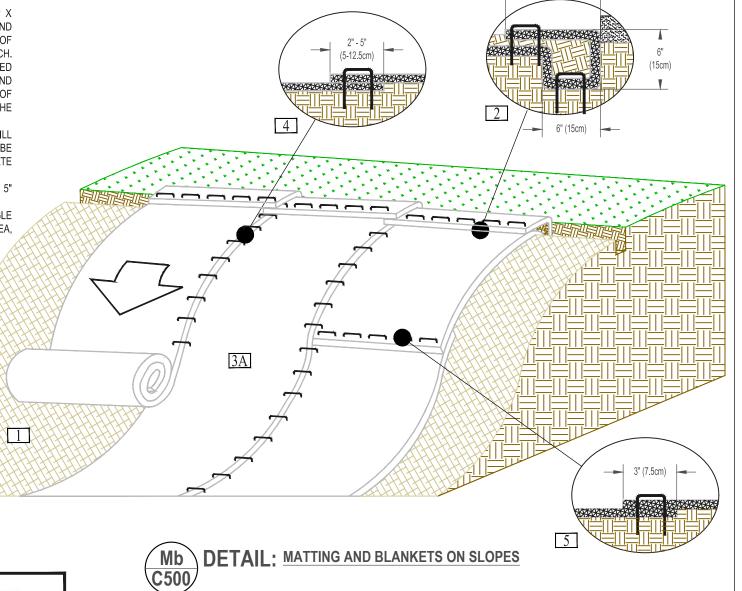
SLOPE INSTALLATION

oseyville, IN 47633

lensar. **AMERICAN** 5401 St. Wendel - Cynthiana Rd. PH: 800-772-2040

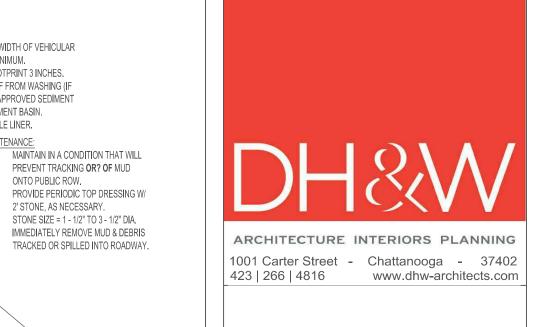
www.tensarnagreen.con

DRAWING NOT TO SCALE



March P.O. Box 3689 Adams& Chattanooga, Tennessee 37404 Associates PH: (423)698-6675 nsulting Engineers MAA #21280

12" (30cm)



1. WIDTH = FULL WIDTH OF VEHICULAR

. EXCAVATE FOOTPRINT 3 INCHES.

. ROUTE RUNOFF FROM WASHING (IF

TRAP OR SEDIMENT BASIN.

USE GEOTEXTILE LINER.

ARD SURFACE

N.S.A. R-2(1.5"-3.5") COARSE

AGGREGATE

GEOTEXTILE UNDERLINE

REQ'D) TO AN APPROVED SEDIMENT

PREVENT TRACKING OR? OF MUD

STONE SIZE = 1 - 1/2" TO 3 - 1/2" DIA.

ONTO PUBLIC ROW,

2' STONE, AS NECESSARY.

ACCESS, 30' MINIMUM.

**SMMHS** Tennis Courts

HCDE Bid 24-59

Sam Powell Trail Signal Mountain, TN 37377

Date: 04/05/2024 Drawn: CH/JP File: 2235

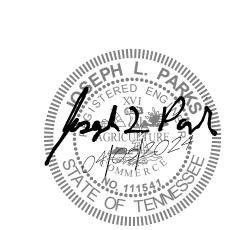
Revisions

Key Plan

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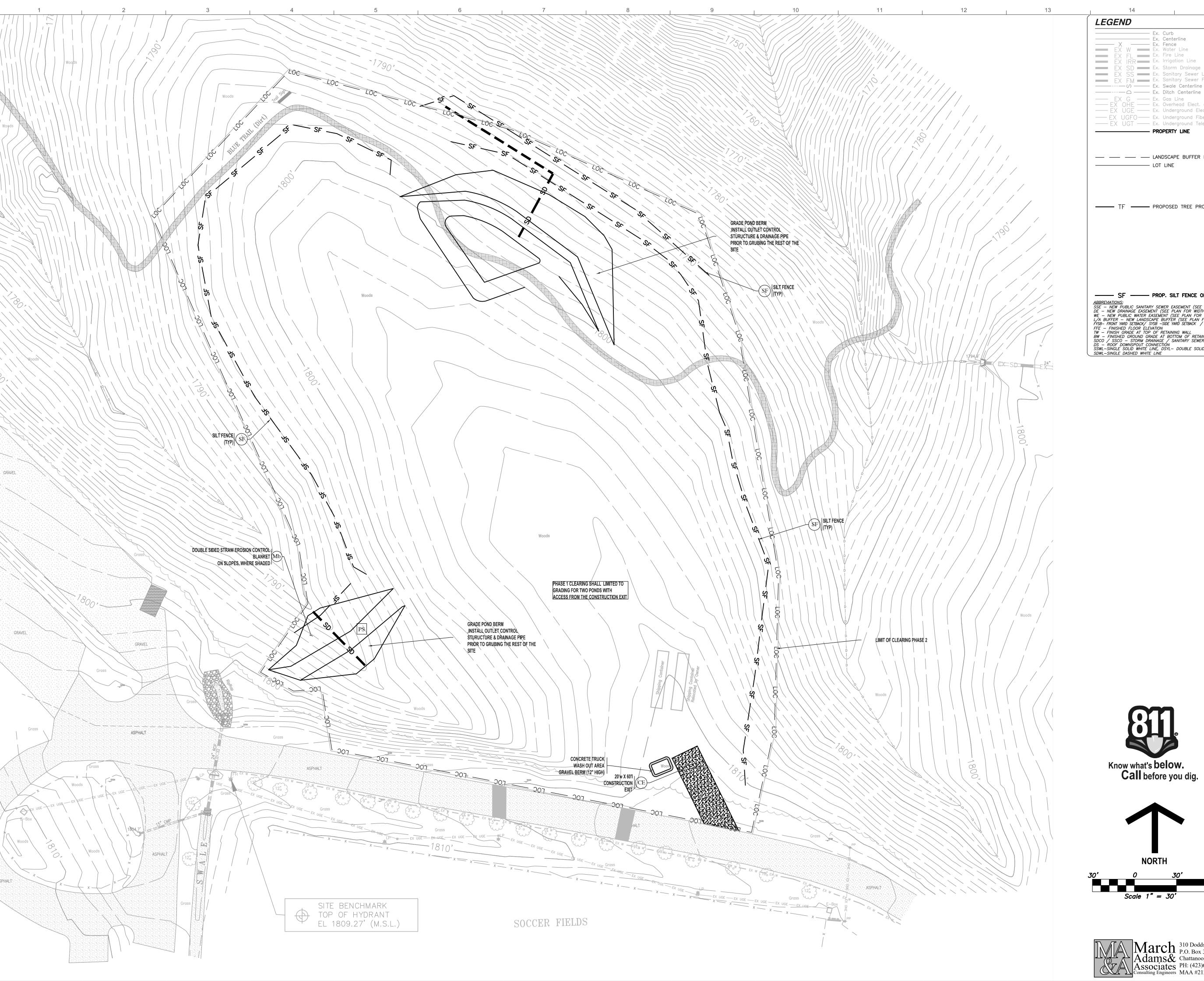
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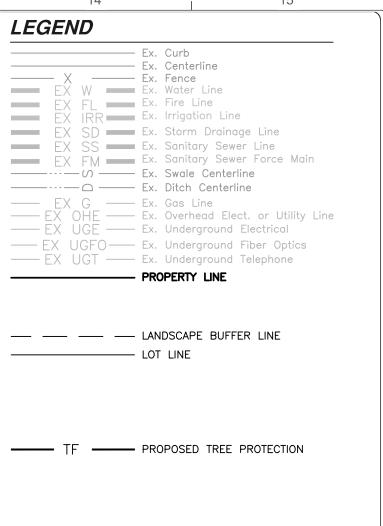


SEDIMENT & **EROSION CONTROL NOTES** 

Scale:

Sheet No.





----- SF ------ PROP. SILT FENCE OR SILT WADDLE ABBREVIATIONS:
SSE — NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).
DE — NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).
WE — NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).
L/A BUFFER — NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).
FYSB—FRONT YARD SETBACK/ SYSB—SIDE YARD SETBACK / RYSB—REAR YARD SETBACK
FFE — FINISHED FLOOR ELEVATION
TW — FINISH GRADE AT TOP OF RETAINING WALL
BW — FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL
SDCO / SSCO — STORM DRAINAGE / SANITARY SEWER CLEAN—OUT
DS — ROOF DOWNSPOUT CONNECTION
SSWL—SINGLE SOLID WHITE LINE, DSYL— DOUBLE SOLID YELLOW LINE
SDWL—SINGLE DASHED WHITE LINE



SMMHS Tennis Courts

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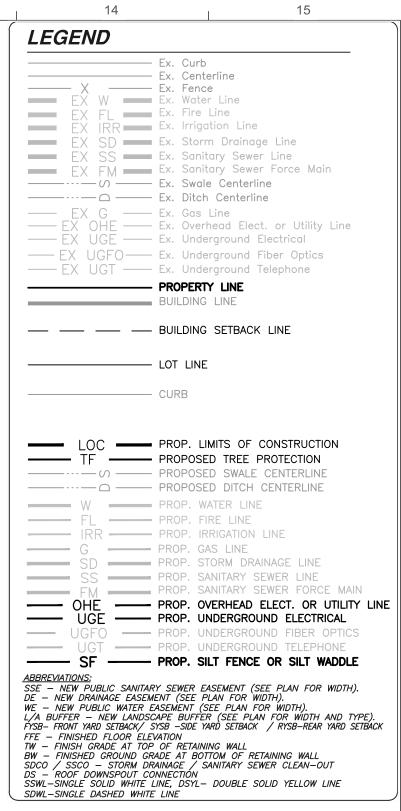
SEDIMENT & **EROSION** CONTROL PHASE I

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SEDIMENT & **EROSION** CONTROL PHASE II

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UNDERGROUND UTILITIES.

THESE DRAWINGS DO NOT PURPORT TO LOCATE ALL UTILITIES.

ALL UTILITY LOCATIONS TO BE FIELD VERIFIED BY PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION. UNDERGROUND UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN, INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE, CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED BEFORE EXCAVATION OR DEMOLITION WORK BEGINS.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE WORKING AREA BEFORE COMMENCING WORK & AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE & PRESERVE ANY & ALL

THE CONTRACTOR SHALL COORDINATE LOCATION & INSTALLATION OF ALL UNDERGROUND UTILITIES & APPURTENANCES TO MINIMIZE DISTURBING CURB & GUTTER. PAVING, EXISTING UTILITIES & COMPACTED SUBGRADE.

CONTRACTOR SHALL VERIFY EXISTING UTILITY LINE OR EXISTING INFRASTRUCTURE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWING OR IN THE FIELD BEFORE BEGINNING WORK OR DURING CONSTRUCTION.

CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS (ELECTRIC, TELEPHONE, GAS, CABLE, ETC.) & ALLOW FOR THEIR OPERATIONS & CONSTRUCTION TO BE PREPARED.

THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNERS REPRESENTATIVE OR ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN. DEVIATION FROM THESE PLANS & NOTES WITHOUT THE PRIOR CONSENT OF THE OWNERS REPRESENTATIVE MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, & ALL NECESSARY LICENSES & PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.

FOR ANY WORK IN THE STATE OR CITY RIGHT-OF-WAY, THE CONTRACTOR SHALL: A. NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT; IN THE CASE OF MULTI-LANE HIGHWAYS, IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY.

B. PROVIDE ALL NECESSARY & ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES & FLAG MEN AS REQUIRED BY THE LOCAL AUTHORITIES & IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR & HOLD HARMLESS THE CITY OF SIGNAL MOUNTAIN & THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES, OR TO THE

C. COMPLETE THE WORK TO THE SATISFACTION OF THE CITY OF SIGNAL MOUNTAIN OR DOT AND OBTAIN A LETTER FROM THE DEPARTMENT STATING THAT THE WORK IS ACCEPTABLE.

D. POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR STATE. ALL WORK & MATERIALS SHALL COMPLY WITH TOWN OF SIGNAL MOUNTAIN REGULATIONS & CODES OF O.S.H.A. STANDARDS.

A MINIMUM CLEARANCE OF TWO FEET SHALL BE MAINTAINED BETWEEN THE FACE OF CURB & ANY PART OF A TRAFFIC SIGNAL OR LIGHT POLE. NECESSARY & SUFFICIENT BARRICADES, LIGHTS, SIGNS & OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE

PUBLIC SHALL BE PROVIDED & MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTORS SHOULD NOT BE DOING ANY OPEN BURNING OF CONSTRUCTION MATERIALS OR DEBRIS WITHOUT A PERMIT FROM THE DEPARTMENT OF AIR POLLUTION CONTROL OR LOCAL AUTHORITY. IF A CONTRACTOR DESIRES TO PERFORM OPEN BURNING, HE MUST BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND IS RESPONSIBLE FOR ANY VIOLATION OF THE AIR POLLUTION LAWS.

CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS. EROSION CONTROL MEASURES ARE TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION (SEE GRADING & DRAINAGE PLAN AND/OR SEDIMENT & EROSION

EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILT & DEBRIS.

THE CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS TO PROPERTY AS RESULT OF HIS WORK. 9. ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE.

). ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEEDED, LANDSCAPED, MULCHED, WATERED, & MAINTAINED UNTIL ADEQUATE STAND OF GRASS IS OBTAINED. UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" OF TOPSOIL.

2. ALL PIPE LENGTHS & DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG A HORIZONTAL PLANE. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS & APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE STORM DRAINAGE, SEWER, WATER & UTILITY SYSTEMS. ALL PIPE & FITTINGS SHALL BE INSPECTED BY THE UTILITY DEPARTMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST

ALSO BE PRESENT DURING PRESSURE TESTING & DISINFECTION OF LATERALS & HIS SIGNATURE OF APPROVAL IS REQUIRED. 44. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITIES FOR CONNECTION TO THE EXISTING MAINS & PAY ALL APPLICABLE FEES. UTILITY COORDINATION & COSTS SHALL BE INCLUDED IN THE PROJECT SCHEDULE & IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE & PROTECT THEIR FACILITIES.

CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER TO THE STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION.

28. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF S/W UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION.

JOINTS OR SCORE MARKS ARE TO BE SHARP & CLEAN WITHOUT SHOWING EDGES OF JOINT TOOL. 1. THE CONTRACTOR SHALL PROVIDE FOR ANY NECESSARY BONDS AS REQUIRED BY GOVERNING AGENCIES.

AN AUTO CAD BASE PLAN MAY BE PROVIDED TO THE CONTRACTOR FOR CONSTRUCTION PURPOSES. TEMPORARY BENCHMARK: IS LOCATED BY SURVEYOR AND SHOWN ON THE PLAN.

4. TOPOGRAPHIC & BOUNDARY SURVEY BY BEGINNING POINT SURVEYING & PROVIDED BY THE OWNER. 55. SEE FINAL PLAT BY SURVEYOR FOR LOCATIONS OF ALL NEW SANITARY SEWER & STORM DRAINAGE EASEMENTS, ALL DETENTION AREAS WILL BE A STORM DRAINAGE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.

FOR EXACT BUILDING DIMENSIONS SEE ARCHITECTURAL PLANS. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER TO THE STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION.

4. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF SIDEWALK, OR FACE OF BUILDING UNLESS NOTED OTHERWISE.

A 1' CURB TAPER SHALL BE FORMED AT ALL PLACES WHERE CURB & GUTTER MEETS AN ADJACENT CONCRETE SIDEWALK OR PARKING AREA WHICH IS 0.5' LOWER THAN THE TOP OF CURB ELEVATION. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

# **DEMOLITION NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEMOLITION PERMITS AS WELL AS OTHER ASSOCIATED PERMITS PRIOR TO CONSTRUCTION. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER TO THE STRUCTURALDRAWINGS FOR FOUNDATION INFORMATION.

ALL DEMOLITION DIMENSIONS SHOWN ARE APPROXIMATE & SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING PAVEMENT OR CONC. AREAS AS NECESSARY TO ENSURE SMOOTH TRANSITIONS. THE CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY & AS DIRECTED BY THE INSPECTOR TO ENSURE POSITIVE DRAINAGE (TYPICAL AT ALL INTERSECTIONS). INSTALL EXPANSION JOINTS AT ALL CONC. SAW-CUT TIE-INS.

ALL EXISTING TREES, VEGETATION & ORGANIC TOPSOIL SHALL BE STRIPPED & REMOVED FROM THE CONSTRUCTION AREA, AS REQUIRED. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS REQUIRED. COORDINATE WITH PROPER AUTHORITIES AND/OR UTILITY COMPANIES.

REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

# DRAINAGE & GRADING NOTES:

CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.

NEW FINISHED CONTOURS SHOWN ARE TOP OF NEW PAVING IN AREAS TO RECEIVE PAVEMENT & TOP OF TOPSOIL IN AREAS TO BE SEEDED.

PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADE. CONTRACTOR SHALL NOTIFY & COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERNATION OF OR RELOCATION OF THE FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED

A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUB-GRADE & EXISTING ON SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.

UNUSABLE EXCAVATED MATERIALS (SOIL) SHALL BE RESPREAD ON SITE AT LOCATIONS APPROVED BY THE ARCHITECT. ALL WASTE RESULTING FROM DEMOLITION, CLEARING & GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT AN APPROVED LOCATION BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT & MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER

DEBRIS & SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS & GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION. COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698), BACK FILL MATERIAL SHALL BE FROM ROOTS. STUMPS, OR OTHER FOREIGN

THE CONTRACTOR WILL INSURE THAT POSITIVE & ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RECONSTRUCTED AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN & HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE NO SEPARATE PAYMENT WILL BE MADE AT ANY COSTS INCLIRRED TO COMPLY WITH THIS REQUIREMENT THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION & MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS & SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING GRADES ESPECIALLY WITHIN & ALONG DRAINAGE WAYS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" TOPSOIL.

MAXIMUM EMBANKMENT SLOPES TO BE AS FOLLOWS: CUT AREA - 3:1; FILL AREAS 3:1 (UNLESS NOTED OTHERWISE)

4. STOCKPILED TOPSOIL IS TO BE SPREAD OVER LAWN AREAS AT COMPLETION OF PROJECT (PROVIDE 4" MINIMUM SPREAD). IT IS THE INTENT OF THIS PROJECT FOR THE CONTRACTOR TO VERIFY & MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED.

. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY ITEMS THAT DO NOT EXIST AS SHOWN.

STORM DRAIN PIPE TO BE CLASS III REINFORCED CONCRETE CONFORMING TO ASTM C-76, OR CMP, FULLY COATED (16 GAGE MIN.) PER ASTM A44, OR ADS N-12 WITH WATERTIGHT GASKET AS SHOWN ON DRAWINGS.

PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. CONTRACTOR SHALL BLEND ALL SLOPES WITH THE SURROUNDING ENVIRONMENT

19. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR ANY FIELD GRADE ADJUSTMENTS NEEDED DUE TO ACTUAL TOPOGRAPHY VARYING FROM THE TOPOGRAPHIC SURVEY

20. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES.

ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE. LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING, PRESSURE & LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AWWA STANDARD C600 AND/OR MANUFACTURERS

PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.

ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.

THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER & TIMELY COMPLETION OF THIS PROJECT. LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH SOLVENT CEMENTED JOINTS NOT PERMITTED.

WHERE PROPOSED WATER LINE EXTENDS UNDER ANY PAVED SURFACED, THE TRENCH MUST BE BACK FILLED WITH APPROVED STONE. ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES.

WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS" AND LOCAL UTILITY DISTRICT STANDARDS & REGULATIONS. CONNECTION TO THE EX WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY.

RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36".

WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10-FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING. WATER MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR (CLASSIFICATION MU).

ALL MATERIALS SHALL BE UI LISTED & FACTORY MUTUAL APPROVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. #24 - EXISTING SOIL CONDITIONS.

THE CONTRACTOR SHALL NOTIFY THE WATER, SEWER, UTILITY & THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. SANITARY SEWER SERVICE LINES SHOWN AS 6" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.

A CONCRETE ANCHOR BLOCK AS SHOWN ON THE UTILITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST BELL & SPIGOT PIPE JOINT RESTRAINT FROM THE END OF THE WATERLINE.

THE MECHANICAL RESTRAINT SECURING THE JOINT SHALL BE WRAPPED WITH PLASTIC PRIOR TO THE POURING OF THE CONCRETE. THE INTENT OF THE CONCRETE ANCHOR BLOCK WILL HELP KEEP THE JOINTS FROM SEPARATING NEAR THE

END OF THE WATERLINE.

ALL DUCTILE IRON PIPE TO BE AWWA C-151-81, CLASS 50 ALL UNDERGROUND FITTINGS TO BE MECH JOINT AWWA C110/A21.10, CLASS 250

ALL UNDERGROUND VALVES TO BE MECH JOINT AWWA C509, CLASS 250

ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24 THE CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM & OTHER UTILITIES.

REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

# WATER DISTRIBUTION SYSTEM NOTES:

EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES.

ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE. CONTRACTOR TO COORDINATE WITH THE UTILITY FOR CONNECTION TO EXISTING WATER MAIN.

WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10-FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL

BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING. LINES UNDERGROUND SHALL BE INSTALLED. TESTED & APPROVED BEFORE BACKFILLING.

WATERLINES MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR (CLASSIFICATION MU).

UPON COMPLETION OF THIS PROJECT, "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE ENGINEER, OWNER, & UTILITY.

PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.L.

THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER & TIMELY COMPLETION OF THIS PROJECT.

. ALL MATERIALS SHALL BE UI LISTED & FACTORY MUTUAL APPROVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES. ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. - EXISTING SOIL CONDITIONS.

A CONCRETE ANCHOR BLOCK AS SHOWN ON THE UTILITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST BELL & SPIGOT PIPE JOINT RESTRAINT BE FROM THE END OF THE WATERLINE. THE MECHANICAL RESTRAINT SECURING THE JOINT SHALL BE WRAPPED WITH PLASTIC PRIOR TO THE POURING OF THE CONCRETE. THE INTENT OF THE CONCRETE ANCHOR BLOCK WILL HELP KEEP THE JOINTS FROM SEPARATING NEAR THE END OF THE

14. ALL DUCTILE IRON PIPE TO BE AWWA C-151-81, CLASS 50

15. ALL UNDERGROUND FITTINGS TO BE MECH JOINT AWWA C110/A21.10, CLASS 250

16. ALL UNDERGROUND VALVES TO BE MECH JOINT AWWA C509, CLASS 250 17. ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24 ADEQUATE THRUST BLOCKS TO BE PROVIDED AS PER NFPA #24

9. THE CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM & OTHER UTILITIES.

20. FIRE HYDRANTS ARE TO BE INSTALLED SO THAT THE FIRE DEPARTMENT CONNECTION FACES THE STREET. THE FIRE HYDRANT CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE. FIRE HYDRANTS SHALL BE CLEAR OF ANY OBSTRUCTIONS WITHIN 5 FT IN ANY DIRECTION PARALLEL WITH THE APPROACH OR THE VISIBILITY OF ANY FIRE HYDRANT, OR F.D.C./SIAMESE. FIRE HYDRANTS LOCATED IN PARKING

AREAS SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES (NFPA 11413-6.5, 3-6.6).

. LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH SOLVENT CEMENTED JOINTS NOT PERMITTED. PROCEDURE FOR DISINFECTING POTABLE WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C601.

PRESSURE & LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AWWA STANDARD C600 AND/OR MANUFACTURER'S PROCEDURE. 24. WHERE PROPOSED WATER LINE EXTENDS UNDER ANY PAVED SURFACE, THE TRENCH MUST BE BACKFILLED WITH APPROVED STONE.

5. ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES. 26. CONNECTION TO THE WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY.

27. RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

28. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36". 29. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY & THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

30. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



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**SMMHS** Tennis

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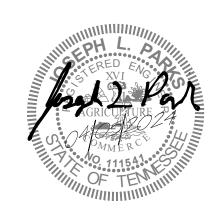
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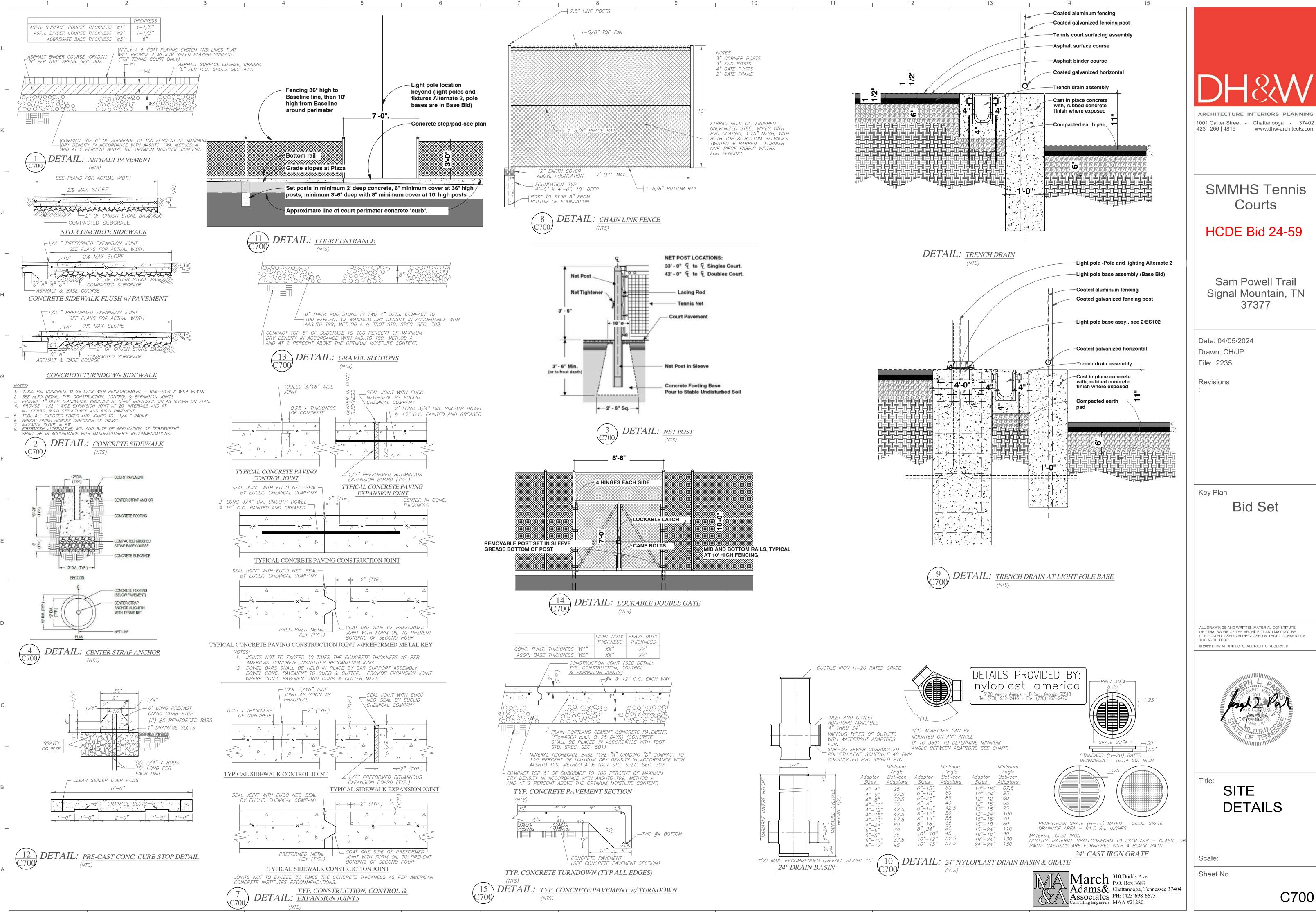


**GENERAL** NOTES

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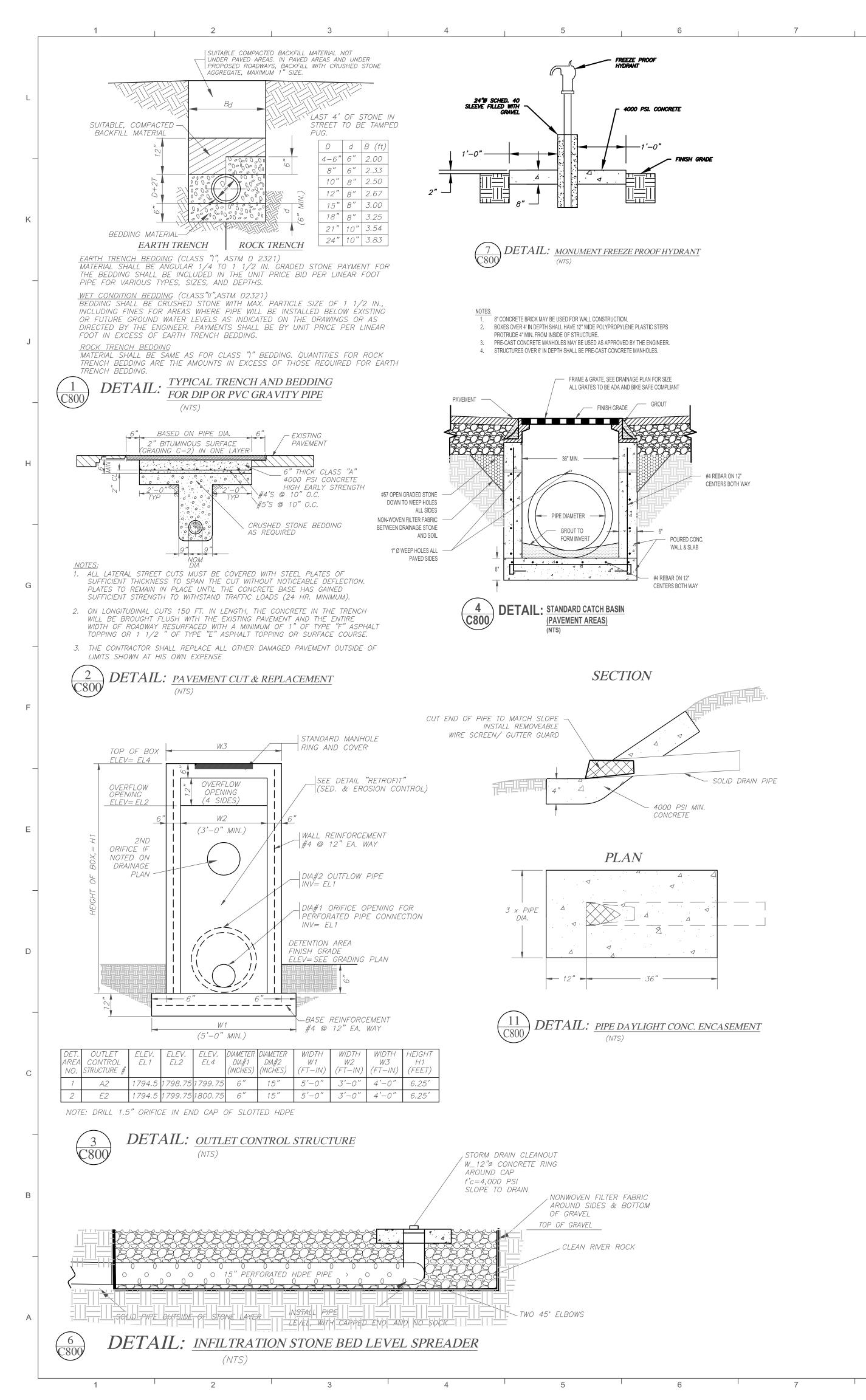
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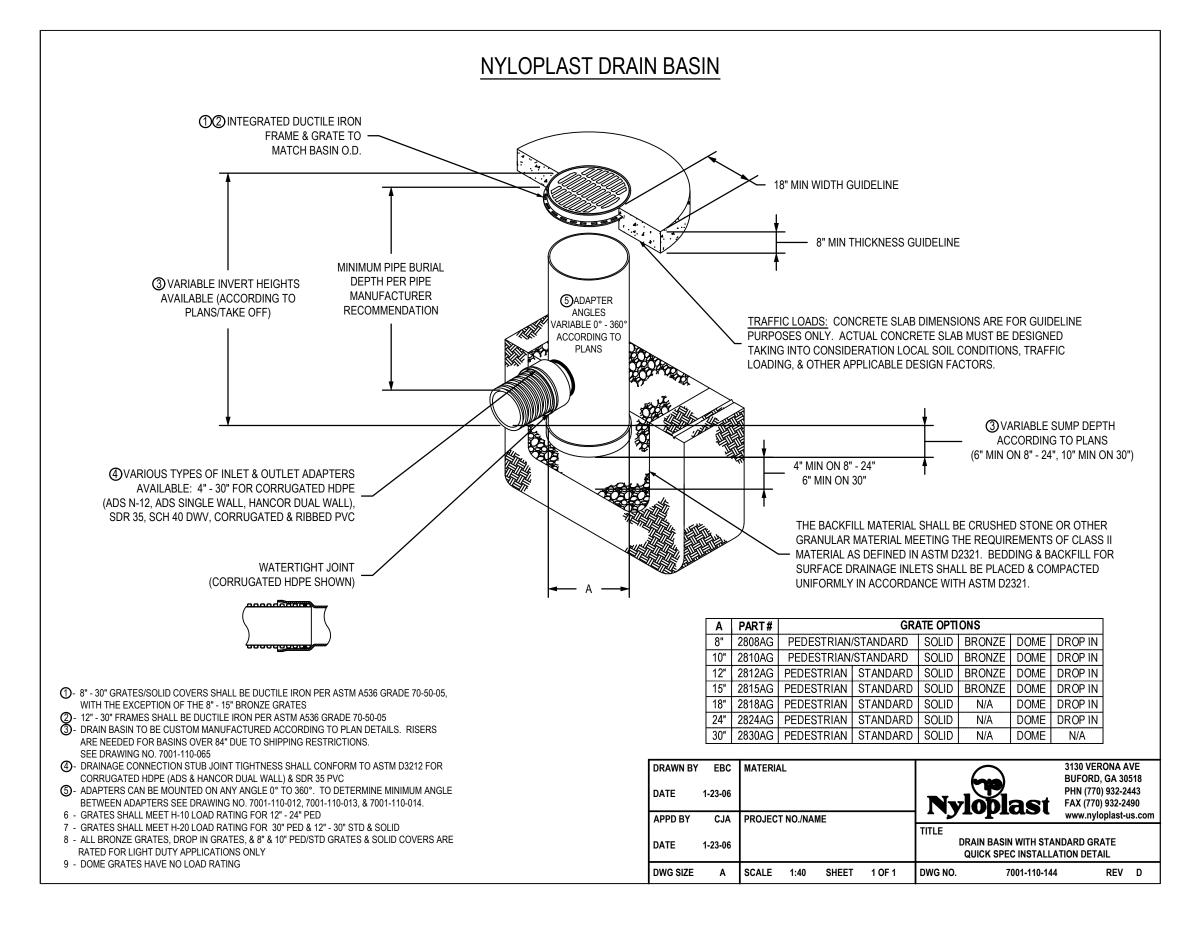
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Sam Powell Trail Signal Mountain, TN

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SMMHS Tennis Courts

**HCDE Bid 24-59** 

Sam Powell Trail Signal Mountain, TN 37377

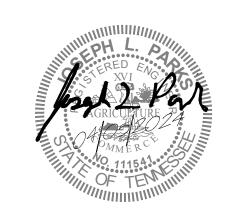
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SITE **DETAILS** 

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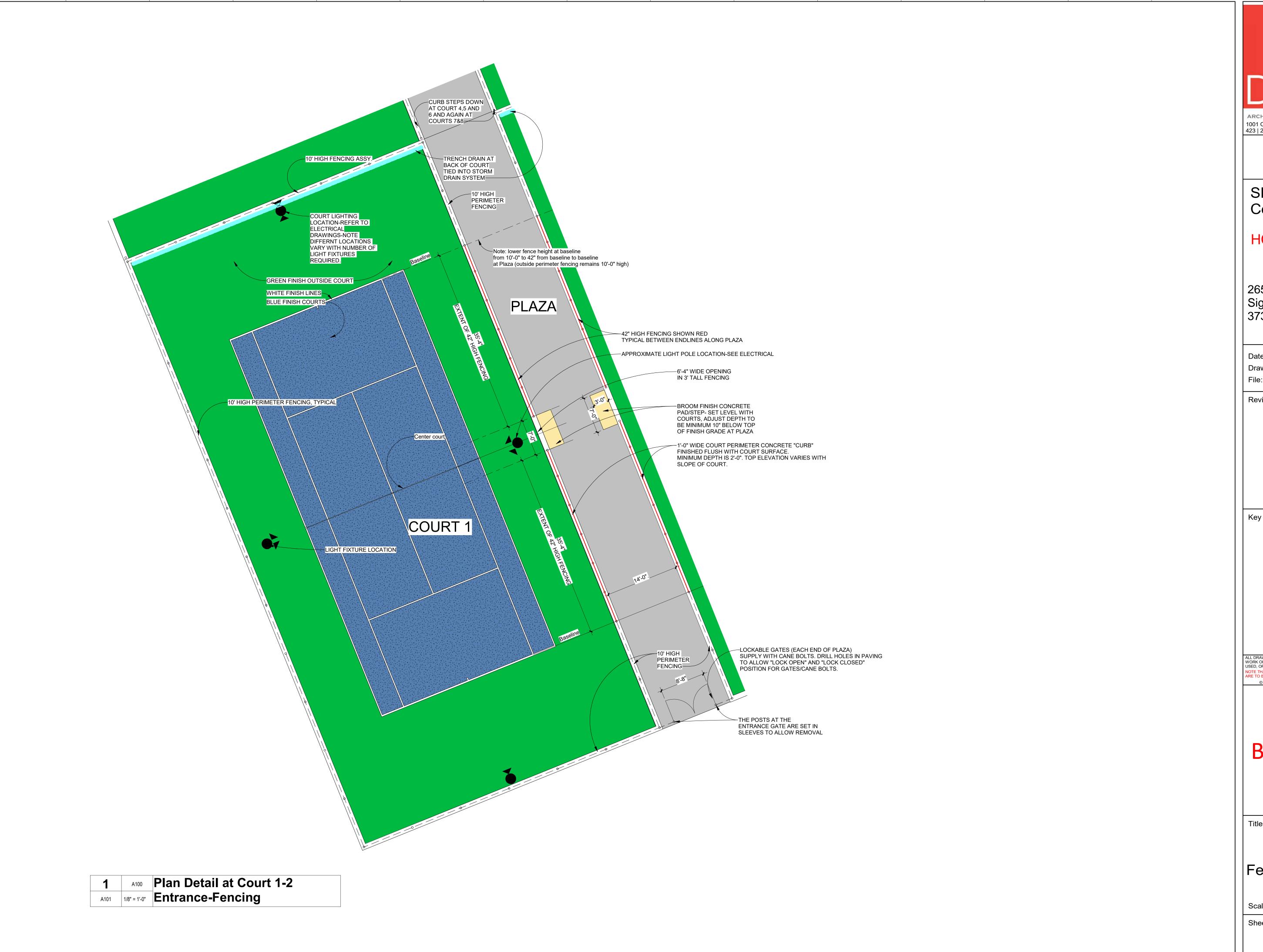
March 310 Dodds Ave.
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Adams & Chattanooga, Tennessee 37404

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MAA #21280

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SMMHS Tennis **Courts Addition** 

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**Bid Set** 

Plan Detail-Typical
Fencing and Court
1 Layout

Sheet No.

12

A101

# BASE BID

CONTRACTOR TO NOTE THAT ALL "A" AND "C" TYPE FIXTURES. ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO RUN EMPTY CONDUIT WITH PULL STRING AND STUB UP AT EACH LOCATION SHOWN FOR FUTURE INSTALLATION OF POLES AND LIGHTS. ALL "S" TYPE FIXTURES WORK TO BE DONE IN BASE BID. ALL POLE BASES EXCEPT FOR THE BACK TWO TENNIS COURTS (7 &8) ARE TO BE PART OF BASE BID. COORDINATE WITH ARCHITECT.

# ALTERNATE BID #1

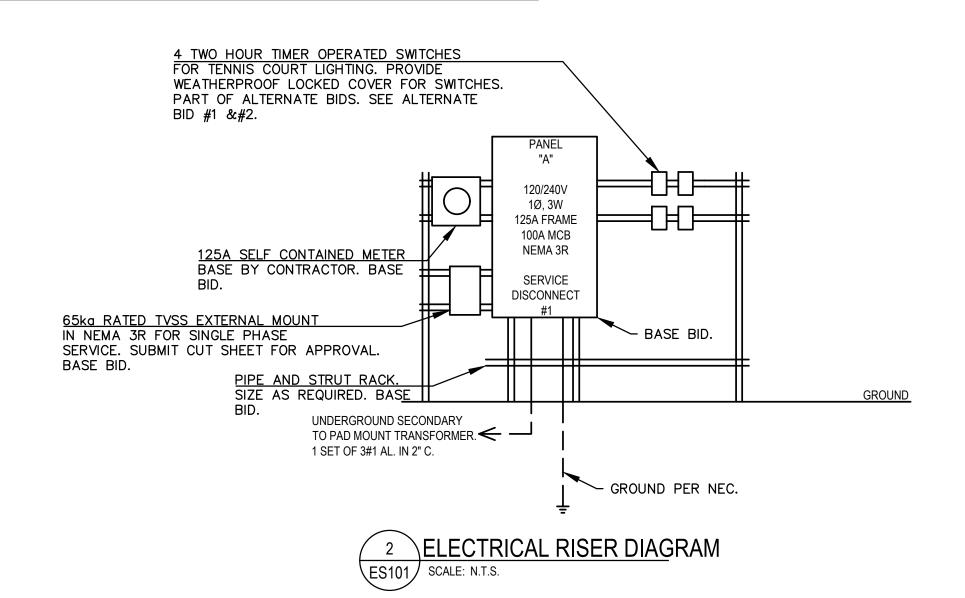
TO INCLUDE ALL BASE BID WORK AND INSTALLATION OF FIXTURE TYPES "A", "D", AND "C" WITH POLES AND WIRING AT COURTS 1-6. CONTRACTOR TO RUN EMPTY CONDUIT WITH PULL STRING AND STUB UP AND LOCATIONS SHOWN FOR TENNIS COURTS 7 & 8. COORDINATE WITH

# ALTERNATE BID #2

TO INCLUDE ALL BASE BID AND ALTERNATE #1 WORK. INSTALLATION OF FIXTURE TYPES "A" AND "D" WITH POLES AND WIRING AT COURTS 7-8. COORDINATE WITH ARCHITECT.

# **ELECTRICAL KEYED NOTES**

- PROPOSED LOCATION OF NEW EPB 120/240V 1Ø PAD MOUNTED TRANSFORMER TO SERVE TENNIS COURTS AT THIS LOCATION. COORDINATE ANY WORK WITH EPB.
- 2 UNDERGROUND SECONDARY LINES BY ELECTRICAL CONTRACTOR FROM TRANSFORMER TO MCB PANEL.
- MAIN ELECTRICAL PANEL AND CONTROL SWITCHES FOR TENNIS COURT LIGHTING. MOUNT ON CONTRACTOR PROVIDED PIPE AND STRUT RACK. SEE RISER DIAGRAM.
- 4 UNDERGROUND ROAD BORE BY EPB.
- 5 SECURITY LIGHT MOUNTED ON WOOD POLE. PHOTOCELL CONTROL ONLY. SECURITY LIGHT IS INCLUDED IN THE BASE BID.
- $\fbox{6}$  COURT LIGHTS TO BE MOUNTED AT 25'. MANUAL SWITCH CONTROL ONLY.



Luminair	re Schedule			
Label	Arrangement	MODEL NUMBER	[MANUFAC]	DESCRIPTION
A	TWO HEADS ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
С	ONE HEAD ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
D	FOUR HEAD ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
В	ONE HEAD ON POLE	ESXF4 ALO SWW2 YS DDB FRWB DDBXD	LITHONIA LIGHTING	18000L, 5000K CCT, FLOOD LIGHT, MULTI-VOLTAGE. WITH INTEGRAL PHOTOCELL SEE NOTE 2 BELOW.

- CONTACT BRAD WHEELUS WITH LIGHTING TRENDS AT 423-816-2651
- CONTRACTOR TO PROVIDE A CLASS 4 WOOD POLE FOR FIXTURE "S" OF SUFFICIENT LENGTH FOR LIGHT TO BE MOUNTED AT 20' A.F.F. THE POLE IS TO BE DIRECT BURIAL.
- CONTRACTOR TO PROVIDE ALL MOUNTING DEVICES AND ACCESSORIES NEEDED FOR PROPER INSTALLATION OF ABOVE LISTED FIXTURES.

								VOLTAGE: <b>240</b> / FEEDS FROM: <b>TF</b> PROVIDE I PROVIDE	RANSFO NEUTRA	ORMER AL BAR
CODE CKT	. LOAD	TRIP	PLS	Α	В	PLS	TRIP	LOAD	CKT	CODE
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		190000000		815					2	
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5	COURTS 5 & 6	20	2	815	815	2	20	COURTS 3 & 4	4	
	0001110000	20	_	815					6	
7					815					
9	SPARE	20	1		815	2	20	COURTS 3 & 4	8	
9	SPARE	20	1	326					10	
11	SPARE	20	1							es. Es.
					326	2	20	SECURITY LIGHTS	12	
13	SPARE	20	1			1	20	SPARE	14	
15	SPACE ONLY						20	SPACE ONLY	16	
17	SPACE ONLY									
19	SPACE ONLY						0	SPACE ONLY	18	
13	OF AGE ONE!							SPACE ONLY	20	
21	SPACE ONLY							SPACE ONLY	22	
23	SPACE ONLY							SPACE ONLY	24	
25	SPACE ONLY									
27	TVSS	30	2				¥.	SPACE ONLY	26	
100.000	100mm 1 490 404 1 1	30						SPACE ONLY	28	
29								SPACE ONLY	30	
L - RUN CIF	RCUIT THRU CONTACTOR.		•	PHASE LC	AD TOTAL	PRO	VIDE T	PEWRITTEN SCHEDULES WITH F	57865-53331	
				Α	В			CUIT NAMES TO BE EXACTLY AS		
				3,586	3,586	PANE	EL.	VIDE ENGRAVED NAMEPLATE OF	N FACE	OF
	0	R		29.9	AMPS					

PANEL SCHEDULE



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# SMMHS Tennis Courts

Sam Powell Trail Signal Mountain, TN 37377

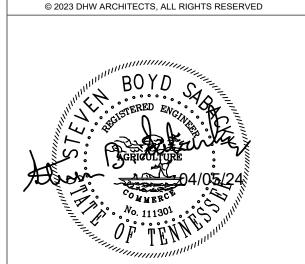
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Revisions:

Key Plan

Bid Set

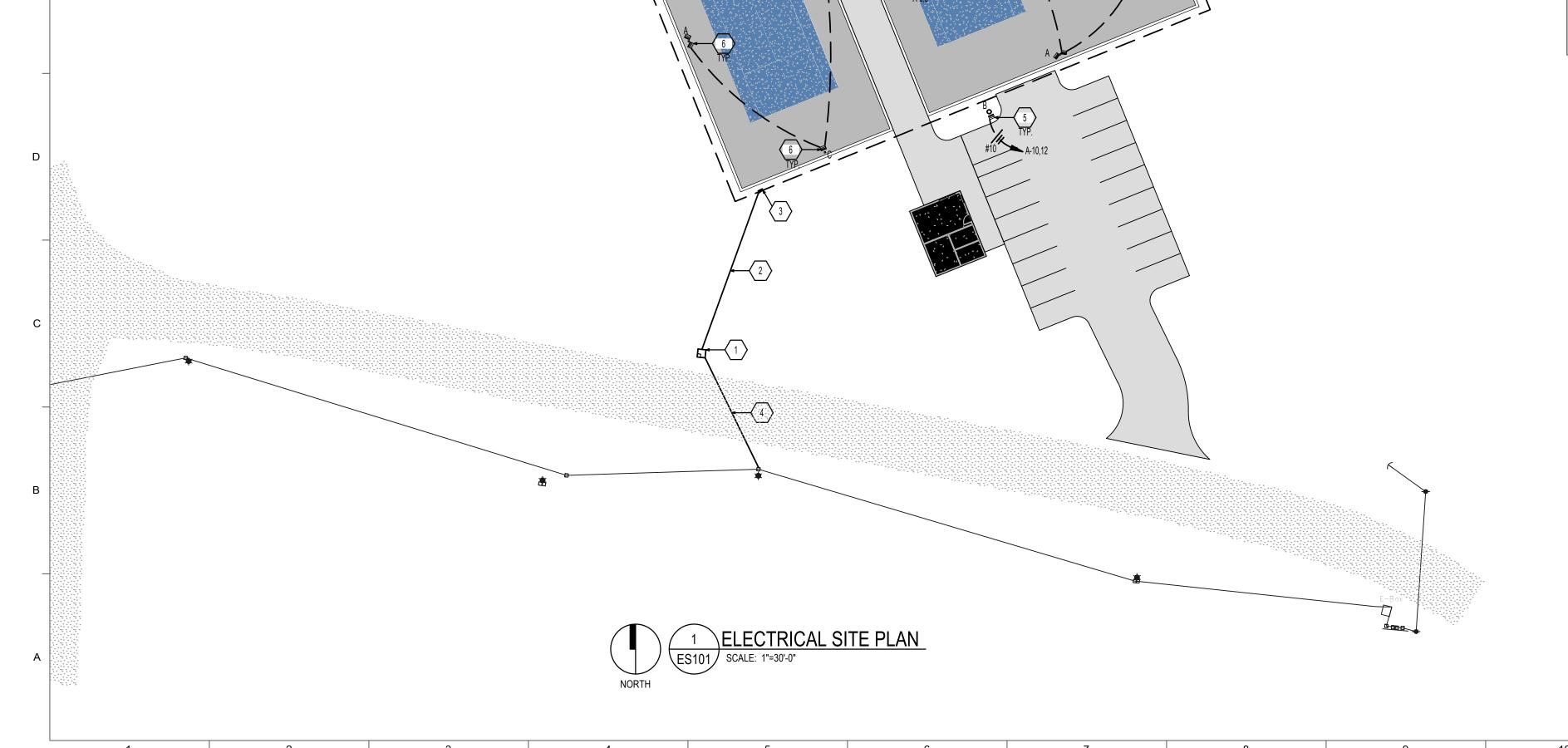
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ELECTRICAL SITE PLAN

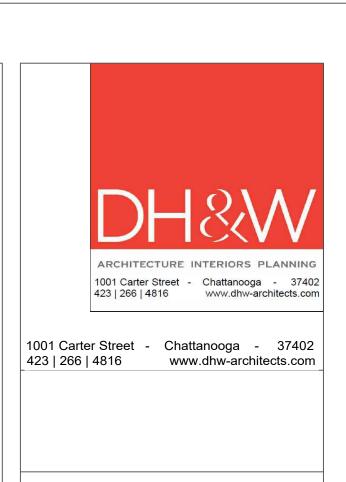
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ALTERNATE #2

ALTERNATE #1



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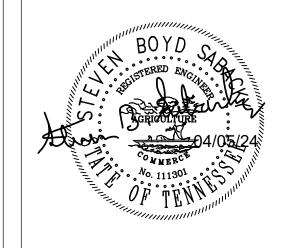
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# ELECTRICAL PHOTOMETRICS PLAN

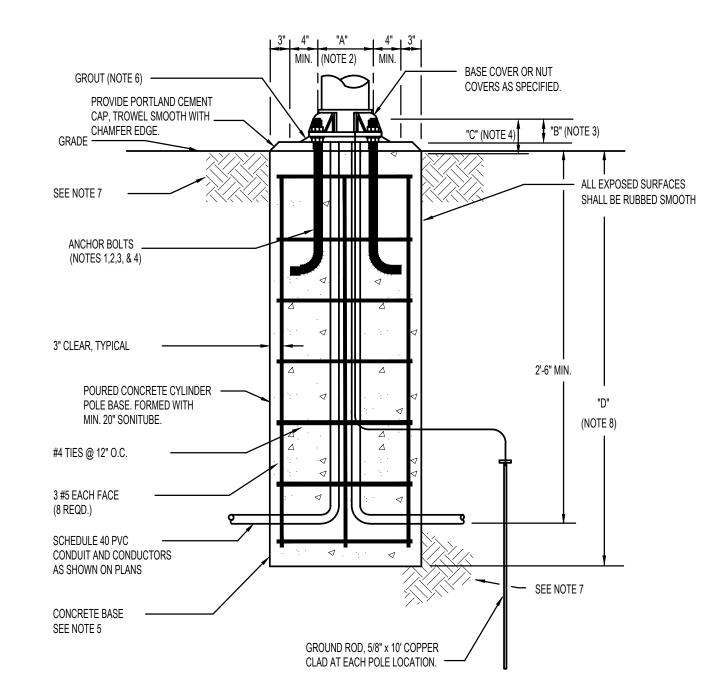
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POLE	SPREAD FOO	TING
HEIGHT	100 MPH WIND	130 MPH WIND
<u>&lt;</u> 15'	3'-9" x 3'-9" x 1'-4" W/(5) #5 E.W. BOTTOM PEIR REINF. 8.#5'S VERT. W/#3 TIES @ 10" o/c	4'-6" x 4'-6" x 1'-4" W/(6) #5 E.W. BOTTOM PEIR REINF. 8-#5'S VERT. W/#3 TIES @ 10" o/c
≥30'	4'-6" x 4'-6" x 1'-6" W/#4 @ 18" o/c BOT. E.W. PEIR REINF. 8.#5'S VERT. W/#3 TIES @ 10" o/c	7'-9" x 7'-9" x 1'-6" W/#4 @ 12" o/c BOT. E.W. PEIR REINF. 8-#5'S VERT. W/#3 TIES @ 10" o/c
<u>&lt;</u> 40'	6'-3" x 6'-3" x 1'-6" W/#4 @ 12" o/c BOT. E.W. PEIR REINF. 8.#5'S VERT. W/#3 TIES @ 10" o/c	7'-9" x 7'-9" x 1'-6" W/#5 @ 14" o/c BOT. E.W. PEIR REINF. 8-#5'S VERT. W/#3 TIES @ 10" o/c
<u>&lt;</u> 50'	7'-3" x 7'-3" x 1'-6" W/#4 @ 12" o/c BOT. E.W. PEIR REINF. 8.#5'S VERT. W/#3 TIES @ 10" o/c	8'-9" x 8'-9" x 1'-6" W/#5 @ 12" o/c BOT. E.W. PEIR REINF. 8-#6'S VERT. W/#3 TIES @ 12" o/c
<u>&lt;</u> 60'	8'-0" x 8'-0" x 1'-6" W/#5 @ 13" o/c BOT. E.W. PEIR REINF. 8.#5'S VERT. W/#3 TIES @ 10" o/c	10'-0" x 10'-0" x 1'-6" W/#5 @ 10" o/c BOT. E.W. PEIR REINF. 8-#6'S VERT. W/#3 TIES @ 12" o/c
(5)# <u>DETAIL N</u> 1. THI	SPREAD FOOTING FOR LINGTES: S DETAIL IS FOR SHALLOW APPLICATIONS WHERE ROCK IS	
2. RU	BBED FINISH TO CONCRETE.	
3. REI	BAR SIZE AND NUMBERS BY OTHERS.	



DETAIL NOTES:

1. POLE SHALL BE PROVIDED WITH MINIMUM OF FOUR ANCHOR BOLTS WITH DOUBLE NUTS, DOUBLE FLAT WASHERS, AND ONE LOCK WASHER SIZED TO MATCH EACH ANCHOR BOLT. ALL NUTS, WASHERS, AND BOLTS SHALL BE HOT DIPPED GALVANIZED.

- 2. ANCHOR BOLT GAGE, DIMENSION "A", SHALL BE AS REQUIRED BY POLE MANUFACTURER. EXACT LOCATION OF ANCHOR BOLTS SHALL BE DETERMINED BY CONTRACTOR AFTER POLES ARE PURCHASED AND BEFORE CONCRETE BASE IS
- 3. BOLT PROJECTION, DIMENSION "B", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS
- 4. ANCHOR BOLT EMBEDMENT, DIMENSION "C", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS THAN 12". ANCHOR BOLT DIAMETER SHALL NOT BE LESS THAN 3/4".
- 5. CONCRETE BASE SHALL BE OF MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, W/C RATIO OF .55. REINFORCING BARS SHALL BE DEFORMED STEEL, GRADE 60.
- 6. GROUT SHALL BE PRE-BAG MIX NON-SHRINK, NON-METALLIC, 5000 PSI MINIMUM, ONE TO TWO INCHES THICK.
- 7. SOIL AROUND FOUNDATION BASE SHALL BE NON-ORGANIC GRANULAR SOIL COMPACTED TO 95% STANDARD PROCTOR (ASTM D-698). TOP 4" TO 6" MAY BE TOP SOIL OR PAVEMENT.
- 8. FOUNDATION EMBEDMENT DEPTH, DIMENSION "D", SHALL BE 15 PERCENT OF POLE HEIGHT ABOVE GRADE, MINIMUM OF
- 9. RUBBED FINISH TO CONCRETE.
- 10. REBAR SIZE AND NUMBERS BY OTHERS.

CONCRETE POLE BASE DETAIL (TENNIS COURT LIGHTING)



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SMMHS Tennis Courts

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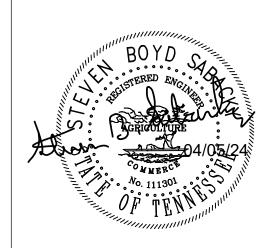
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Revisions:

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