CONSTRUCTION PLANS FOR

MUNICIPAL COMPLEX TRAIL LIGHTING

W2017-76-A



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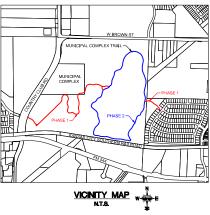
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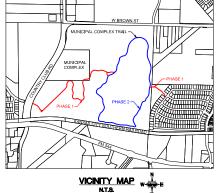


JULY 2018

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2. REINFORCING STEEL SHALL BE DEFORMED BARS NO. 3 ON 18 INCH CENTERS OR NO. 4 BARS ON 24 INCH CENTERS. REINFORCING SHALL BE IN BOTH DIRECTIONS ON CENTER. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM 615, 616 AND 617.

3. ALL REINFORCING STEEL SHALL BE TIED (100%). REINFORCING STEEL SHALL BE SET ON PLASTIC CHAIRS. BAR LAPS SHALL BE MINIMUM 30 DIAMETERS. NO STEEL SHALL BE PLACED UNTIL THE SUBGRADE HAS BEEN TESTED AND PASSED

4. EXPANSION JOINTS SHALL BE SPACED EVERY 600 FEET, AT ALL INTERSECTIONS AND CHANGES IN DIRECTION OF PAVING. ALLEYS SHALL HAVE A MINIMUM OF TWO EXPANSION JOINTS

↑ 5. SAWED TRANSVERSE DUMMY JOINTS SHALL BE SPACED EVERY 15 FEET OR 1.25 TIMES
LONGITUDINAL JOINT SPACING WHICHEVER IS LESS. SAWING SHALL OCCUR WITHIN 5 TO 12 HOURS AFTER THE POUR INCLUDING SEALING.

▲ 6. SUBGRADE UNDER PAVEMENTS SHALL BE A MINIMUM OF 7 INCHES OF LIME TREATED SUBGRADE. ONLY HYDRAIED LIME SHALL BE LIMITED. OPINION LIME SHALL BE APPLIED, OPINION LIME CONTENT SHALL BE DETERMINED DURING THE EXCAVATION BY THE USE OF A LIME SERIES TEST. LIME SERIES TEST SHALL BE TAKEN ALONG THE EXCAVATION AT ALL CHANGES IN SOIL AND A MINIMUM OF 300 FEET. LIME SERIES SHALL BE COMPLETED BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY. 41#/SY MAY BE USED IN LIEU OF LIME SERIES TESTING. SUBGRADE SHALL BE COVERED WITH PAVING WITHIN 14 DAYS OR SUBGRADE SHALL BE REWORKED AND RETESTED.

7. LIME TREATED SUBGRADE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE AMAIMUM DENSITY AS DETERMINED BY ASTIN DESS. MOISTURE CONTENT SHALL BE WITHIN - 2 TO +4 OF OFTIMUM. DENSITY TEST RESULTS SHALL BE COMPLETED BY AN INDEPENDENT LABORATION? APPROVED BY THE CITY. ALL RESULTS SHALL BE PROVIDED TO THE CITY. SUBGRADE TESTING SHALL BE IN ACCORDANCE WITH NCTCOG ITEM 303.5.1 SUBGRADE.

8 LIME TRIMMINGS ARE NOT ACCEPTABLE FOR ANY LISE

PAVING NOTES

9, ALL FILL SHALL BE COMPACTED BY MECHANICAL METHODS. MAXIMUM LOOSE LIFT FOR COMPACTION SHALL BE 8 INCHES. ALL LIFTS SHALL BE TESTED FOR DENSITY BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY. DENSITY REQUIREMENT SHALL BE AS SHOWN ON THE PLANS FOR THE TYPE OF MATERIAL CALLED FOR IN THE PLANS.

10. ALL DISTURBED AREAS OF ROADWAY WORK SHALL HAVE GRASS ESTABLISHED IMMEDIATELY. GRASS SHALL MEET THE REQUIREMENTS OF ITEM 202, LANDSCAPING, OF NOTCOG SPECIFICATIONS, FOURTH EDITION OR AS AMENDED.

11. ALL AREAS TO BE EXCAVATED OR FILLED SHALL HAVE EROSION CONTROL PLACED PRIOR TO COMMENCING EARTHWORK. EROSION CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH NCTCOG ITEM 201, FOURTH EDITION OR AS AMENDED

⚠ 12. ALL SIDEWALKS SHALL BE 5' WIDE AND INCLUDE BARRIER FREE RAMPS AT INTERSECTING STREETS, ALLESS, DRIVEWAYS, ETC. BARRIER FREE RAMPS SHALL MEET CUMENT AND REQUIREMENTS, BE INSTALLED BY THE DEVELOPER AND MEET THE TEXAS DEPT. OF LICENSING REGULATIONS.

13. SIDEWALKS SHALL BE DOWELED INTO PAVEMENT WHERE IT ABUTS DRIVEWAYS. EXPANSION JOINT MATERIAL SHALL BE USED AT THESE LOCATIONS.

14. NO VEHICLES SHALL BE PERMITTED ON CONCRETE PAVEMENT WITHOUT APPROVAL FROM THE CITY. THE CITY WILL MAKE DETERMINATION BASED ON CONCRETE BREAK REPORT.

⚠ 15. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO PRECONSTRUCTION MEETING, REVISE THE FIRST PARAGRAPH OF NCTCOG SPEC. 303.2.1.3 COARSE AGGREGATE TO READ "CRUSHED LIMESTONE SHALL CONSTITUTE 100% OF THE COARSE AGGREGATE. 16. ALL PAVING FOR PARKING SHALL BE MIN. 5" THICK 3,600 P.S.I. CONCRETE SUBJECT TO CITY

17. ALL AREAS NOT UNDER PAVING, INCLUDING ALL FRANCHISE UTILITY EASEMENTS, SHALL BI COMPACTED TO A DENSITY OF NOT LESS THAN 92 PERCENT OF THE MAXIMUM DENSITY.

18. CONCRETE PLANTS SHALL CONFORM TO TXDOT 1993 EDITION ITEMS 520 AND 522.

19. ANY CURB AND/OR STREET SECTION REMOVED FOR THE CONSTRUCTION OF A PRIVATE DRIVEWAY SHALL NOT BE REMOVED PRIOR TO 7 DAYS OF CONSTRUCTION OF THE DRIVEWAY. IF THE DRIVEWAY IS NOT CONSTRUCTED WITHIN THIS TIME FRAME AND EXCAVATION HAS BEEN MADE, EXCAVATION SHALL BE REPLACED UNTIL SUCH TIME CONSTRUCTION COMMENCES.

△ 20. MAXIMUM TEMPERATURE OF THE CONCRETE FOR PLACEMENT SHALL BE 95° F AS SPECIFIED IN
TXDOT 2004 EDITION ITEM 360.4 PARAGRAPH G.4 TEMPERATURE RESTRICTIONS.

21. PAVING EQUIPMENT REQUIRED SHALL BE AS SPECIFIED IN TXDOT 2004 EDITION UNDER ITEM 360.3
22. WATER INJECTION OF SUBSEADE BY CITY ENGINEER APPROVAL ONLY.
23. SUBSPAULE UNIDEN THE LOWES SHALL MEET THE PAVING SUBSPAULE REQUIREMENTS OR ONE

ADDITIONAL INCH OF CONCRETE MAY BE USED.

24. SUBGRADE UNDER PARKING AREAS SHALL BE DETERMINDED BY A GEOTECH REPORT.

LINED CHANNELS

1. CONSTRUCTION JOINT SHOWN IN DETAILS FOR CONVENIENCE ONLY, MONOLITHIC CONSTRUCTION MAY BE USED.

2. ALL VISIBLE SURFACES SHALL BE A TROWEL FINISH.

3. ALL REINFORCING STEEL SHALL BE 3/8" DIAMETER AND SPACED 12" CENTER TO CENTER BOTH WAYS LINEESS OTHERWISE SPECIFIED

4. IF WOOD FORMS ARE USED WITH CONSTRUCTION JOINT, THEY SHALL BE TWO, 2"x4", AND SHALL NOT BE REMOVED UNTIL CONCRETE ON SLOPES IS READY TO BE PLACE.

5. ALL CONCRETE IN LINED CHANNEL SHALL BE NCTCOG CLASS "A" (MINIMUM 3,000 P.S.I.) CONCRETE.

6. FLAT BOTTOM TO BE CONSTRUCTED WHEN CHANNEL WIDTH IS LESS THAN 12 FOOT.

STORM SEWER

T. THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.

2. A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR IN LIEU OF THIS, AT LEAST 6 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED—SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.

3. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILLING TO COMMENCE WITH 8" MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR UNDER ROADWAY OR 12" MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 4 INCHES IN DIAMETER. 4. PRECAST INLETS MUST BE APPROVED BY THE CITY.

5. CONCRETE TO BE MINIMUM 4,200 P.S.I.

LOCKING DEVICE IS REQUIRED ON ALL STORM SEWER LIDS.

7. "NO DUMPINO" WARNING PLAQUE TO BE INSTALLED ON ALL STANDARD AND RECESSED INLETS.

8. CONCRETE CAST—IN—PLACE INLETS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,200 P.S.I. © 28

39. DELFTED

10. EXISTING STORM SEWER PIPE AND/ OR LATERALS SHALL BE LOCATED PRIOR TO SETTING OR CONSTRUCTING INLET BOXES. IF ADJUSTMENT IN GRADE OF LATERAL IS REQUIRED, A REVISED DESIGN BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.

I. REINFORCED CONCRETE PIPE CLASS III IS APPROVED WITHIN THE CITY.

12.COLOR IV INSPECTION SHALL BE COMMETED ON THE STORM SEWER IN THE PRESENCE OF CITY

REPRESENTATIVE AND THE ORIGINAL MEDIA SHALL BE GIVEN TO THE CITY AT THE COMMETION

OF THE INSPECTION.

13.YOUR ATTENTION IS DIRECTED TO SUBDIVISION ORDINANCE SECTION 5.9.C STORM DRAINAGE AND WATER QUALITY CONTROLS. IN THE ELEVENTH MONTH OF THE SECOND YEAR OF THE REQUIRED TWO—YEAR MAINTENANCE BOND, THE DEVELOPER SHALL BE RESPONSIBLE FOR REMOVING ANY SIGNIFICANT BUILD—UP OF SEDIMENT OR BURD, HE CASCADE AND REAL BE RESPONSIBLE FOR RESOLUTIONS AS DESIGNATED. THE PURDING SHALL BE BORNE BY THE DEVELOPER AND SHALL BE ACCOMPLISHED BY COLOR TO INSPECTION IN THE PRESENCE OF A CITY REPRESENTATIVE AND THE ORIGINAL MEDIA SHALL BE GIVEN TO THE CITY AT THE COMPLETION OF THE INSPECTION.

SANITARY SEWER

1. ALL SEWER LINES CROSSING POTABLE WATERLINES SHALL BE AS SHOWN IN THE PLANS AND MEET TCEQ REQUIREMENTS

INCHES THROUGH 15 INCHES SHALL BE IN ACCORDANCE WITH ASTM D3034 WITH A MINIMUM SDR OF 35 2. PIPES 8 INCHES THROUGH 15 INC OR ASTM D3350 AND DE 345434 C.

3. PIPES LARGER THAN 12 INCHES THROUGH 48 INCHES SHALL BE IN ACCORDANCE WITH ASTM STANDARDS F679, F794, F949 AND D3350/ DE 345434 C.

F794, 1949 AND USUSUOY DE 393-34 C.

A MANHOLES SHALL BE PRECAST. ALL MANHOLES SHALL BE WATER TIGHT. PRECAST MANHOLES SHALL HAVE
JOINTS SEALED. ALL RING AND COVERS SHALL INCLIDE AN INTERNAL CHIMNEY SEAL.

S. ALL PIPE OPENINGS IN MANHOLES SHALL INCLIDE COUPLINGS WITH "O" RING RUBBER GASKETS.

6. STUDDOUTS OUT O" MANHOLES SHALL BE ITITED WITH A STOPPER AND CAP. STUDDOUTS SHALL BE A MINIMUM.

OF 5 FEET FROM MANHOLE AND BE SUPPORTED BY A CONCRETE CRADLE.
7. ALL DROP MANHOLES SHALL BE OF THE EXTERNAL TYPE.

MANHOLES SHALL BE VENTED IN ACCORDANCE WITH TCEQ REQUIREMENTS.

6. MANTOLES PRINCIPLE BY PRINCIPLE IN ACCORDANCE WITH CIECU REQUIREMENTS.

9. ALL SANITARY SEWER PIPE SHALL BE TESTED (NCTCOG ITEM 507.5) AFTER CONSTRUCTION. TESTING SHALL INCLUDE PRESSURE TESTING, MANDREL TEST (TCEQ REQUIRED) AND COLOR TV INSPECTION. COLOR TV INSPECTION SHALL BE COMPLETED IN PRESENCE OF CITY REPRESENTATIVE AND THE ORIGINAL MEDIA SHALL BE GIVEN TO THE CITY AT THE COMPLETION OF THE INSPECTION.

SEWER SHALL BE RE-INSPECTED AFTER INSTALLATION OF FRANCHISE UTILITIES. AIR TEST ONLY.

10. MANHOLES SHALL RE VACULUM TESTED IN THE PRESENCE OF THE CITY REPRESENTATIVE.
11. NO END—OF—LINE CLEANOUTS WILL BE ALLOWED. TERMINATE SEWER LINES WITH A MANHOLE. A ILLUMINATION

STREET LIGHT FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TXU ELECTRIC DETAIL AND NOTES FOR 25' OR 30' MOUNTING HEIGHT ROUND STEEL POLE.

2. PROVIDE SQUARE CONCRETE MOW STRIP 18" FROM OUTSIDE OF POLE TO CORNER USING

3,000 P.S.I. CONCRETE WITH #3 BARS @ 18" AND ½" EXPANSION JOINT.
3. SUBDIVISION STREET LIGHTING TO CONFORM TO THE ZONING ORDINANCE. "DECORATIVE STREET LIGHTING SHALL BE PROVIDED ALONG RESIDENTIAL STREETS THROUGHOUT ALL RESIDENTIAL DEVELOPMENTS, PROVIDING LOW ILLUMINATION WITH SOLAR CONTROLS ON DECORATIVE POLES WITH SPACING RANGING FROM 250 FEET TO 350 FEET BETWEEN LIGHTS

PLACED ON ALTERNATING SIDES OF THE STREET. A STREET LIGHTING PLAN MUST BE SUMITTED TO THE CITY ENGINEER FOR APPROVAL. THE CITY ENGINEER IS AUTHORIZED TO ALTER THE DISTANCE REQUIREMENT IF NEEDED IN AN EFFORT TO ACHIEVE THE BEST LIGHTING ARRANCEMENT POSSIBLE."

SPECIAL DETAILS OR MODIFICATIONS TO THESE STANDARD DETAILS TO BE UTILIZED ON ANY

GIVEN PROJECT SHALL BE SUBMITTED TO THE CITY FOR APPROVAL FOR USE.

GYEN PROJECT SYALL BE SUBMITED TO THE CITY FOR APPROVAL FOR USE.

STREET SHON SPECIFICATIONS*

STREET MANE SIGNS FOR ALL INTERSECTIONS BY THE CONSTRUCTION OF A SUBDIMISION SHALL BE FURNISHED AND INSTALLED BY THE DEVLOPER. THE INSTALLATION OF THE STREET SIGNS MUST BE PRIOR TO THE FINAL ACCEPTANCE OF THE SUBDIMISION. THE LEGEND SHALL CONTAIN THE MAKE OF THE STREET, ANY SUFFIX AS DESIGNATED ON THE PLAT, AND THE BLOCK NUMBER AS ASSIGNED BY THE CITY. THE SIGN FACE SHALL BE IMP PRISMATIC WHITE WHEN BE CHILD WITH UPCO. THE SIGN PLATE SHALL BE INCHES TALL AND O.080 INCHES THICK FLAT BLADE ALUMINUM DRILLED. THE STREET NAME SHALL BE 6 INCH UPPER CASE LETTERS. THE SUFFIX AND BLOCK LETTERS SHALL BE WHITE THE SIGNS SHALL BE MOUNTED ON A 2 INCH BY 12 FOOT SQUARE POST WITH A 2.25 INCH BY 36 INCH SQUARE GROUND ANCHOR AND 2.5 INCH BY 18 INCH SLEEVE. THE ANCHOR POST SHALL BE DRIVEN INTO THE GROUND. AT A DEPTH OF 30 INCHES. THE STREET NAME SHALL BE MOUNTED 10 FEET FROM THE TOP OF THE CURB MEASURED TO THE BOTTOM OF THE LOWEST SIGN. SIGNS SHALL BE MOUNTED ON SQUARE POSTS USING DRIVE RIVETS. WASHER, SPACE AND CHERRY MATE RIVETS TO ATTACH ENDS OF SIGN TOGETHER

WATER

1. ALL WATER LINE CROSSINGS OF SANITARY SEWER LINES SHALL BE AS SHOWN IN THE PLANS AND MEET TCEQ REQUIREMENTS.

2. PIPES 12 INCHES IN DIAMETER AND SMALLER SHALL BE POLYVINYL CHLORIDE (P.V.C.) MEETING THE REQUIREMENTS OF AWWA C900 DR 18 OR DUCTILE IRON PIPE (D.I.P.) MEETING THE REQUIREMENTS OF AWWA C 151 CLASS 50 PIPE. ALL D.I.P. SHALL BE WRAPPED WITH A POLYETHYLENE LINER.

3. FOR PIPES LARGER THAN 12 INCHES IN DIAMETER, THE PIPE SHALL BE REINFORCED CONCRETE CYLINDER PIPE (AWWA C301 OR AWWA C303), DUCTILE IRON PIPE (AWWA C151 CLASS 50) OR POLYVINYL CHLORIDE PIPE UP TO 18 INCHES MEETING THE REQUIREMENTS OF AWWA C905 - 235 P.S.I. RATED PIPE.

4. ALL VALVES ON PIPES 12 INCHES AND SMALLER SHALL BE RESILIENT SEALED WEDGE VALVES (AWWA C509). 5. ALL VALVES ON PIPES LARGER THAN 12 INCHES BUT SMALLER THAN 30 INCHES SHALL BE BUTTERFLY VALVES (AWWA C504) OR WEDGE VALVES (AWWA C509).

6. ALL VALVES ON PIPES 30 INCHES AND LARGER SHALL BE BUTTERFLY VALVES (AWWA C504).

7. EMBEDMENT SHALL BE AS SHOWN IN THE PLANS. BACKFILL WITHIN THE LIMITS OF EXISTING AND PROPOSED PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR. OUTSIDE PAVEMENT (EXISTING OR PROPOSED) SHALL BE COMPACTED TO MINIMUM OF 92% STANDARD PROCTOR. ALL COMPACTION SHALL BE BY

8. WATER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NCTCOG ITEM 506. ALL WATER LINES SHALL BE SWABBED IN THE PRESENCE OF THE INSPECTOR PRIOR TO BACKFILLING.

9 ALL HORIZONTAL AND VERTICAL BENDS SHALL BE BLOCKED

10. ALL FITTINGS SHALL INCLUDE MEGALUG CONNECTORS.

11. ALL FIRE HYDRANTS SHALL RE INSTALLED WITH A 24" x 24" SOLIARE REINFORCED CONCRETE PAD.

SCREENING WALLS

1. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. @ 28 DAYS.

2. REINFORCEMENT - ASTM A-36.

3. MASONRY - COMPRESSIVE STRENGTH SHALL BE PRESCRIBED IN ITEM 2.3.6 SPECIAL PROVISIONS.

4. WIND LOAD FOR DESIGN - 20 P.S.F.

5. PIER BEARING STRESSES - SEE BRICK SCREENING WALL NOTES.

6. MORTAR - TYPE "S".

7. PROVIDE CONTROL JOINTS AT 50 FEET.

8. PROVIDE EXPANSION JOINTS AT 200 FFFT CENTER MAXIMUM.

9. PROVIDE PIER WITH MINIMUM 9 FOOT W/ 24 INCH DIAMETER BELL IN CLAY OR OTHER MATERIAL EXCEPT BLUE SHALE, 6 FOOT MINIMUM WITH 3 FOOT MINIMUM INTO BLUE SHALE.

10. ALL EXPOSED CONCRETE SHALL BE CLASS 2 RUBBED FINISHED SURFACE.

11. SIDEWALKS ADJACENT TO WALLS MUST BE 5-FOOT MINIMUM WIDTH FROM ALL PORTIONS OF THE WALL (INCLUDING PILASTERS, COLUMNS, ETC.).

12. MAXIMUM PILASTER SPACING 40 FEET.

13. WALLS SHALL NOT BE PLACED IN THE VISIBILITY FASEMENT OR STREET RIGHT OF WAY

14. THE WALL SHALL BE A MINIMUM OF EIGHT FEET IN HEIGHT AS MEASURED FROM THE NEAREST ALLEY EDGE OR SIDEWALK GRADE, WHICHEVER IS THE HIGHER. THE COLOR OF THE WALL SHALL BE LIMITED TO EARTH-TONE COLORS, EXCLUDING GRAY, GREEN AND WHITE. THE COLOR OF THE WALL SHALL BE UNIFORM ON EACH SIDE OF A THOROUGHFARE FOR THE ENTIRE LENGTH BETWEEN INTERSECTING THOROUGHFARES, LINLESS OTHERWISE APPROVED BY THE CITY'S PUBLIC WORKS DEPARTMENT. THE FINISH OF THE WALL SHALL BE CONSISTENT ON ALL SURFACES.

15. IF WROUGHT IRON FENCING IS TO BE UTILIZED ON REQUIRED SCREENING, ALL WROUGHT IRON MUST BE SOLID STOCK, NO TUBULAR STEEL WILL BE ALLOWED.

<u> </u>	REVISED PAVING NOTES	JCH	6/30/14
Δ	ADD PAVING NOTE 21	JCH	7/08/09
▲	ADD STORM SEWER NOTE 13	JCH	9/19/08
Δ	ADD PAVING NOTE 20 AND REVISE NOTE 12 & 15	JCH	8/08/08
A	ADD PAVING NOTE 19	JCH	9/12/07
ΔN	DELETE STORM SEWER PARAGRAPH NO. 9	JCH	5/10/07
Δ	ADD STREET SIGN SPECIFICATIONS & ILLUMINATION REQUIREMENTS	JCH	1/5/07
Δ	REVISE PAVING NOTES NO. 1 & 5	JCH	5/16/06
NO.	REVISION	BT	DATE
	CITY OF WYLIE, TE	XΑ	S

STANDARD CONSTRUCTION DETAILS

GENERAL NOTES

APRIL, 2005 DATE:

STD-00 R

Kimley » Horn

MUNICIPAL COMPLEX TRAIL LIGHTING OF WYLIE

CITY OF WYLIE GENERAL NOTES

GENERAL NOTES:

- 1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARZED HINSELF WITH THE CONTRACT DOCUMENTS AND EXSTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE INCCESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A BEAT AND KINETING INSCRIPTION OF THE CONTRACTOR OF THE ONDISTRY AND IN CONDITIONS WAS AND ADDISTRY AND IN CONDITIONS AND HAS AGREED TO PROVIDE THE CONTRACTOR OF THE ONLY ADDISTRY AND IN CONDITIONS AND HAS AGREED TO PROVIDE THE ONLY ADDISTRY AND IN CONDITIONS AND HAS AGREED TO PROVIDE THE ONLY ADDITIONS AND HAS AGREED TO PROVI
- 2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDESTANDING THAT THE CONTRACTOR IS AN DEPERT AND COMPRETENT IN THE PREPARATION OF CONTRACT DID PRICES ON THE BASIS OF INCOMATION SUCH AS IS CONTAINED IN THESE DRAWINGS, AND SECONDATIONS AND FROM THE PROPERT IN THE PR
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- 4. THE DRAWNGS INDICATE ARRANGEMENTS AND APPROXIMATE SYZES AND RELATIVE LOCATIONS OF PRINCIPAL APPRAINS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWNGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIPMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURES IDENTIFIED IN THE EQUIPMENT SHE INDICATED.
- 5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
- 6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT, ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER, PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTRIBED CORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SHEE AND/OFF OR PORTIONS OF THE BUILDING THAT MUST FRAMAIN IN OPERATION, WITH OWNER'S
- 7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT, SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY
- 8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEWISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED GENERY.
- 12. WHERE CONDUIT, CHAILES, DUCTWORK, OR PIPMO PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENTERTAIN SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL. THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AS
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK, THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
- 14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- 15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION, CONTRACTORS SHALL SUBMIT AN ELECTRONIC CODY THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WRINGE DIAGNAS AND ASSOCIATED DATA TO THE OWNER FROM THE COMPLET SHOP DRAWINGS THAT BE SHAWES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS NO SUBMISSION MILL BE ACCEPTED WITHOUT THE SORDE APPROVED. OF THE CONTRACTOR SHALL CREW AND VERTY ALL FIELD MEASUREMENT
- 17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER APPROVED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS
- 18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
- 19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER, OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR'S EXPENSE.
- 20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- 21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE CONNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
- 22. SUBJUL A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED STATES
- 23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.
- 24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."
- 28. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIETS REQUIREMENTS.
- 26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.
- 27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. SECURED FIRMLY IN PLACE AND SET TRUE AND SOUARE AND FLUSH WITH THE FINISHED SURFACE.
- 28. WRING: WRES SHALL BE COPPER AND BATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PARILES SO AS TO BALANCE THE LOAD ON ALL PHASES.
- 29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.
- 30. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250, PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.
- 3). DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL DETAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCY AND COLOR AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE REPORTED THE.

SUMMARY OF BUILDING CODES

- 2012 INTERNATIONAL BUILDING CODE (IBC)
 2012 INTERNATIONAL EMERGY CONSERVATION CODE (IECC)
 2012 UNIFORM MECHANICAL CODE (UMC)
 2012 UNIFORM PLUMBING CODE (UPC)
 2011 NATIONAL ELECTRICAL CODE (MCC)
 2012 INTERNATIONAL FIRE C

Kimley *Hom



MUNICIPAL COMPLEX TRAIL LIGHTING WILE, TX PREPARED FOR CITY OF WYLIE

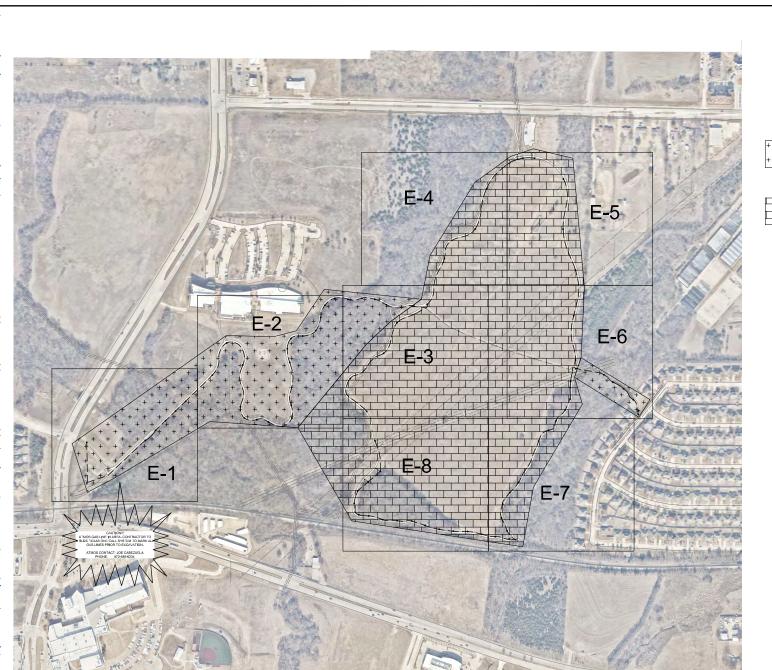
> N E ENERAL ᠬ



ABBREVIATIONS:

3W 4W	THREE WIRE FOUR WIRE	<u>C</u> (CON	IT.)	E (CON	т.)	L		P		I	
_ A	FOOK WINE	CPT CR CS	CONTROL POWER TRANSFORMER CONTROL RELAY CONTROL SWITCH	FUT FURN FVR	FUTURE FURNISHED FULL VOLTAGE REVERSING	L LA LCP	LINE LIGHTNING ARRESTER LOCAL CONTROL PANEL	PB PD PF	PULL BOX PLATE DESIGNATION POWER FACTOR	TFR TDC TDD	TRANSFORMER TIME DELAY ON CLOSING TIME DELAY AFTER DEENERGIZATION—OFF
AMP A/C	AMPERE AIR CONDITIONING	CT CU	CURRENT TRANSFORMER COPPER	FVNR	FULL VOLTAGE NON-REVERSING	LD LP	LEAK DETECTOR LIGHTING PANEL	PFM PH	POWER FACTOR METER PHASE	TDE TDO	TIME DELAY ENERGIZATION—ON DELAY TIME DELAY ON OPENING
AB AC	ANCHOR BOLT ALTERNATING CURRENT	D.		<u>G</u>		W		PNL PP PR	PANEL POWER PANEL PAIR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR TWISTED SHIELDED TWISTED
AFD AFF	ADJUSTABLE FREQUENCY DRIVE ABOVE FINISH FLOOR ABOVE FINISH GRADE	DC DI	DIRECT CURRENT DIGITAL INPUT	GEC GEN	GROUNDING ELECTRODE CONDUCTOR GENERATOR	MAX	MAXIMUM MAINTENANCE BYPASS BREAKER	PT	POTENTIAL TRANSFORMER	<u>u</u>	IMPLED
AHU Al	AIR HANDLING UNIT ANALOG INPUT	DIA DIM DIV	DIAMETER DIMENSION DIVISION	GFI GND GRS	GROUND FAULT INTERRUPTER GROUND GALVANIZED RIGID STEEL	MCC MCP MFR	MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MANUFACTURER	RCS	REMOTE CONTROL STATION	UPS	UNINTERRUPTABLE POWER SUPPLY
AL ALCP	ALUMINUM AREA LIGHTING CONTACTOR PANEL ANALOG OUTPUT	DN DO	DOWN DIGITAL OUTPUT	H	OREVANIZED MOID STEEL	MH MIB	MANHOLE MAINTENANCE ISOLATION BREAKER		RECEPTACLE REDUCE VOLTAGE AUTOTRANSFER	¥	
AO ATC ATS	AUTOMATIC TEMPERATURE CONTROL AUTOMATIC TRANSFER	DS E	DISCONNECT SWITCH	HGT	HEIGHT HANDHOLE	MIN	MINIMUM MODULE OUTPUT BREAKER	RVNR RMC	REDUCE VOLTAGE NON-REVERSING RIGID METALLIC CONDUIT	VFD	VOLTS VARIABLE FREQUENCY DRIVE
AUTO AUX	SWITCH AUTOMATIC AUXILIARY	EC	EMPTY CONDUIT	HP HTR	HORSEPOWER HEATER	MOV MPR MS	MOTOR OPERATED VALVE MOTOR PROTECTION RELAY MOTOR STARTER	<u>s</u>		W	
AWG B	AMERICAN WIRE GAUGE CURRENT	EGC	EQUIPMENT GROUNDING CONDUCTOR ELECTRICAL HANDHOLE ELEVATION	Hz	HERTZ	MTD	MOUNTED	SC SCR	SURGE CAPACITOR SEMICONDUCTOR CONTROLLED RECTIFIER	WHDM WHDR	WATTS WATT-HOUR DEMAND METER WATT-HOUR DEMAND RECORDER
BCP	BLOWER CONTROL PANEL	ELEC EMERG	ELECTRICAL EMERGENCY	ı	INSTRUMENTATION	N.		SES SN SSRV	SERVICE ENTRANCE SECTION SOLID NEUTRAL SOFT START REDUCED VOLTAGE	WHM	WATT-HOUR METER WATT METER
BFB BLDG BTU	BACK FEED BREAKER BUILDING BRITISH THERMAL UNIT	EMH EP	ELECTRICAL MANHOLE ELECTROPNEUMATIC	IHH	INSTRUMENTATION HANDHOLE INSTRUMENTATION MANHOLE	N NC NEC	NEUTRAL NORMALLY CLOSED NATIONAL ELECTRIC CODE	ST	SPEED TACHOMETER SOLENOID VALVE	WP WX	WATER PROOF WATT TRANSDUCER
٥	DIVIDIT TIENMAE ONT	E		IN INST INSTR	INCH INSTANTANEOUS INSTRUMENT	NO NTS	NORMALLY OPEN NOT TO SCALE	SWBD	SWITCH SWITCHBOARD	X	
CB CKT	CIRCUIT BREAKER	FB0 FE	FURNISHED BY OTHERS FLOW ELEMENT	ISW	INSTRUMENT ISOLATION SWITCH INTERMEDIATE TERMINATION PANEL	NUM	NUMBER	SWGR	SWITCHGEAR	XFMR Z	TRANSFORMER
CLF CND	CURRENT LIMITING FUSE CONDUIT	FT	FLOW INDICATING TRANSMITTER FEET/FOOT	Ţ		Q Q	ON CENTER			ZD	CIRCUIT BREAKER AUXILIARY CONTACT
COMB COND	COMBINATION CONDUCTIVITY	FU	FUSÉ	JB	JUNCTION BOX	OL.	OVERLOAD			ZΜ	ISOLATION SWITCH AUXILIARY CONTACT

G-1







PHASE 1



PHASE 2



Kimley»Horn

MUNICIPAL COMPLEX TRAIL LIGHTING WYLE.TX PREPARED FOR CITY OF WYLE

> ELEC SHEET LAYOUT AND PHASING PLAN

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

SHEET NUMBER



EXISTING ONCOR OVERHEAD SERVICE. COORDINATE AND CONNECT TO ONCOR SERVICE PER ONCOR STANDARDS.

EXISTING ONCOR UTILITY POLE

FUTURE TRAIL LIGHT

ELECTRICAL LAYOUT

E-1







LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	₩
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	麥
JUNCTION BOX (16"Wx29"Lx11"D)	1
1.5" RGS CONDUIT - BRIDGE MOUNTED	
1,5" SCH 80 PVC CONDUIT	
LIGHTING CONTROLLER CABINET	С
POWER PEDESTAL AND LIGHTING CONTROLLER	P

	LIGH	T FIXTURE SCHEDULE
SYMBOL	LAMP	POLE
≎	CREE - ARE-EDR 2MB-R5-04-E-UL-BK-350-DM	CREE - 10'-5" H x 5" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
麥	CREE - RSWM-A-HT- 3ME-9L-40K7-UL-GY-N	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING. REPAIR ANY DAMAGE.

ELECTRICAL CONDUIT FOR LIGHTING SHALL BE PVC 1,5-IN SCHEDULE 80, OR AS NEEDED BY THE UTILITY PROVIDER.

S. SEAL ALL CONDUIT ENDS WITH LIGHTING CRICUITS WITH AT LEAST THREE FEET O POLYURETHANE FOAM APPROVED BY THE ENGINEER THAT WILL NOT ADVERSELY OTHER PLASTIC MATERIALS OR CORRODE METALS.

. PROVIDE SLACK AT EACH JUNCTION BOX.

JUNCTION BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION

INSTALL A NEMA 3R PEDESTAL ELECTRIC SERVICE THAT COMPLYS WITH ONCOR STANDARDS AND SPECIFICATIONS, ELECTRIC SERVICE TO BE PROVIDED BY ONCOR, CONTACT LONNIE ORIFFIN AT (972) 985-2078.

10. ALL FIXTURES ARE RATED TO OPERATE AT 240 VOLTS.

11.CREE FIXTURES SHALL BE SUPPLIED, INSTALLED AND UNDER WARRANTY BY MUSCO SPORTS LIGHTING.

13.NO LIGHTS SHALL BE INSTALLED WITHIN UTILITY EASEMENTS.

14.EXISTING UTILITIES AND EASEMENTS SHOWN ARE APPROXIMATE AND SURVEYED.

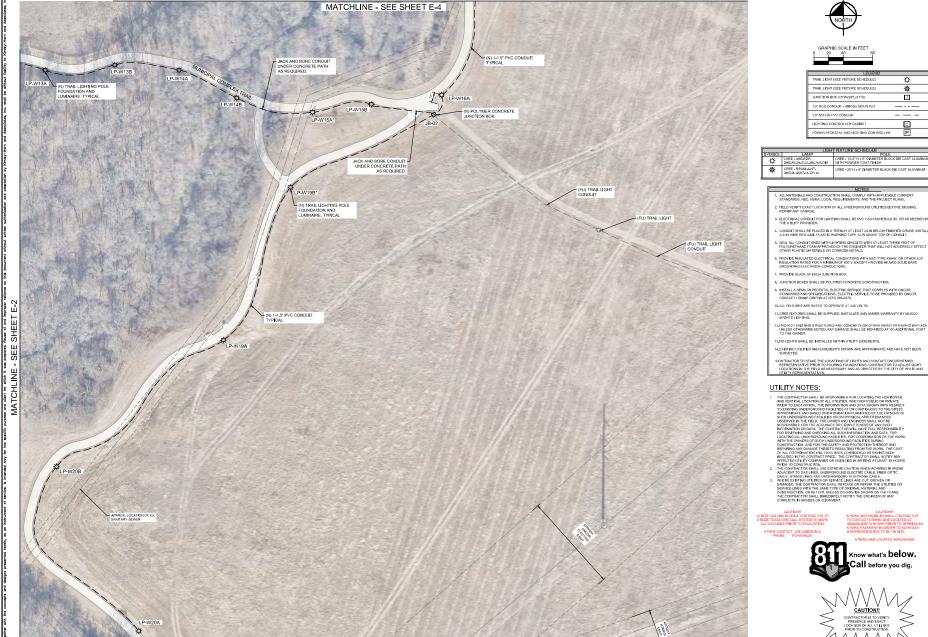
UTILITY NOTES:

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MATCHLINE - SEE SHEET E-8



LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	≎
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	麥
JUNCTION BOX (16"Ws29"Lx11"D)	J
1.5" RGS CONDUIT - BRIDGE MOUNTED	
1.5" SCH 80 PVC CONDUIT	
LIGHTING CONTROLLER CABINET	C
POWER PEDESTAL AND LIGHTING CONTROLLER	P

	LIGH	T FIXTURE SCHEDULE
SYMBOL	LAMP	POLE
₩	CREE - ARE-EDR 2MB-R5-04-E-UL-BK-350-DM	CREE - 10'-5" H x 5" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
李	CREE - RSWM-A-HT-	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM



ELECTRICAL LAYOUT

MUNICIPAL COMPLEX TRAIL LIGHTING PREPARED FOR CITY OF WYLIE

Kimley» Horn

E-3

MATCHLINE - SEE SHEET E-3



LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	₽
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"Wx29"Lx11"D)	1
1.5" RGS CONDUIT - BRIDGE MOUNTED	
1,5" SCH 80 PVC CONDUIT	
LIGHTING CONTROLLER CABINET	С
POWER PEDESTAL AND LIGHTING CONTROLLER	ы

	LIGH	T FIXTURE SCHEDULE
SYMBOL	LAMP	POLE
≎	CREE - ARE-EDR 2MB-R5-04-E-UL-BK-350-DM	CREE - 10'-5" H x 5" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
麥	CREE - RSWM-A-HT- 3ME-9L-40K7-UL-GY-N	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

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& JUNCTION BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION.

INSTALL A NEMA 3R PEDESTAL ELECTRIC SERVICE THAT COMPLYS WITH ONCOR STANDARDS AND SPECIFICATIONS, ELECTRIC SERVICE TO BE PROVIDED BY ONCOR, CONTACT LONNIE GRIFFIN AT (972) 985-2076.

10, ALL FIXTURES ARE RATED TO OPERATE AT 240 VOLTS.

11. CREE FIXTURES SHALL BE SUPPLIED, INSTALLED AND UNDER WARRANTY BY MUSCO SPORTS LIGHTING.

12. PROTECT EXISTING STRUCTURES AND CONCRETE OR OTHER PAVED PATHWAYS IN-PLACE UNLESS OTHERWISE NOTED, ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

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AND VERTICAL PAUL SECONDARY





ELECTRICAL LAYOUT

E-4

Kimley.» Horn

MUNICIPAL COMPLEX TRAIL LIGHTING PREPARED FOR CITY OF WYLIE

Kimley» Horn

E-5





LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	₩
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	卆
JUNCTION BOX (16"Ws29"Lx11"D)	n n
1.5" RGS CONDUIT - BRIDGE MOUNTED	
1.5" SCH 80 PVC CONDUIT	
LIGHTING CONTROLLER CABINET	С
POWER PEDESTAL AND LIGHTING CONTROLLER	P

	LIGH	T FIXTURE SCHEDULE
SYMBOL	LAMP	POLE
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卆	CREE - RSWM-A-HT- 3ME-9L-40K7-UL-GY-N	CREE - 25' H x 6" DIAMETER BLACK DIE CAST ALUMINUM

- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE CURRENT STANDARDS, NEC, NEMA, LOCAL REQUIREMENTS, AND THE PROJECT PLANS.
- ELECTRICAL CONDUIT FOR LIGHTING SHALL BE PVC 1.5-IN SCHEDULE 80, OR AS NEEDED BY THE UTILITY PROVIDER.

- PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH NEC TYPI INSULATION RATED FOR A MINIMUM OF 600 V, EXCEPT PROVIDE GROUNDING ELECTRODE CONDUCTORS.
- 7. PROVIDE SLACK AT EACH JUNCTION BOX.
- 8. JUNCTION BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION.
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UTILITY NOTES:

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Know what's below.













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TRAIL LIGHT (SEE FIXTURE SCHEDULE)	≎
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	麥
JUNCTION BOX (16"Wx29"Lx11"D)	1
1.5" RGS CONDUIT - BRIDGE MOUNTED	
1,5" SCH 80 PVC CONDUIT	
LIGHTING CONTROLLER CABINET	C
POWER PEDESTAL AND LIGHTING CONTROLLER	P

	LIGH	T FIXTURE SCHEDULE
SYMBOL	LAMP	POLE
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李	CREE - RSWM-A-HT- 3ME-9L40K7-LL-GV-N	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

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- FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING, REPAIR ANY DAMAGE.
- ELECTRICAL CONDUIT FOR LIGHTING SHALL BE PVC 1.5-IN SCHEDULE 80, OR AS NEEDED BY THE UTILITY PROVIDER.
- CONDUIT SHALL BE PLACED IN A TRENCH AT LEAST 24-IN BELOW FINISHED GRADE, INSTALL A 6-IN WIDE RED 4-MIL PLASTIC WARNING TAPE 12-IN ABOVE TOP OF CONDUIT.
- SEAL ALL CONDUIT ENDS WITH LIGHTING CIRCUITS WITH AT LEAST THREE FEET OF POLYURETHANE FOAM APPROVED BY THE ENGINEER THAT WILL NOT ADVERSELY AFFECT OTHER PLASTIC MATERIALS OR CORRODE METALS.
- PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH NEC TYPE XHHW, OR OTHER XLP INSULATION RATED FOR A MINIMUM OF 600 V, EXCEPT PROVIDE #6 AWG SOLID BARE GROUNDING ELECTRODE CONDUCTORS.
- 7. PROVIDE SLACK AT EACH JUNCTION BOX.
- 8 JUNCTION BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION
- INSTALL A NEMA 3R PEDESTAL ELECTRIC SERVICE THAT COMPLYS WITH ONCOR STANDARDS AND SPECIFICATIONS, ELECTRIC SERVICE TO BE PROVIDED BY ONCOR. CONTACT LONNIE GRIFF NAT (972) 985-2076.
- 10. ALL FIXTURES ARE RATED TO OPERATE AT 240 VOLTS.
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- 12 PROTECT EXISTING STRUCTURES AND CONCRETE OR OTHER PAVED PATHWAYS IN-PLACE UNLESS OTHERWISE NOTED, ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE FAMILER
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UTILITY NOTES:

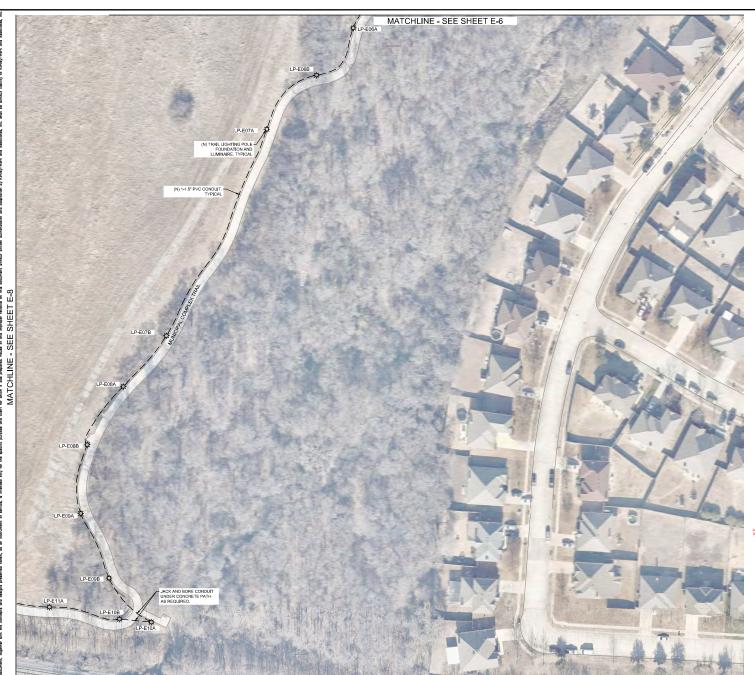
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Know what's below. Call before you dig.











LEGEND	
RAIL LIGHT (SEE FIXTURE SCHEDULE)	፨
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	*
JUNCTION BOX (16"Wx29"Lx11"D)	J
S' RGS CONDUIT - BRIDGE MOUNTED	
5" SCH 80 PVC CONDUIT	
IGHTING CONTROLLER CABINET	С
POWER PEDESTAL AND LIGHTING CONTROLLER	P

	LIGHT FIXTURE SCHEDULE					
SYMBOL	LAMP	POLE				
≎	CREE - ARE-EDR 2MB-R5-04-E-UL-BK-350-DM	CREE - 10'-5" H x 5" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH				
麥	CREE - RSWM-A-HT-	CREE - 25' H x 6" DIAMETER BLACK DIE CAST ALUMINUM				

FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DISGING REPAIR ANY DAMAGE.

PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH NECT
INSULATION RATED FOR A MINIMUM OF 600 V, EXCEPT PROV
ORD UNDING ELECTRODE CONDUCTORS

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Know what's below.







LEGEND	
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JUNCTION BOX (16"Ws29"Lx11"D)	i i
1.5" RGS CONDUIT - BRIDGE MOUNTED	
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Kimley» Horn

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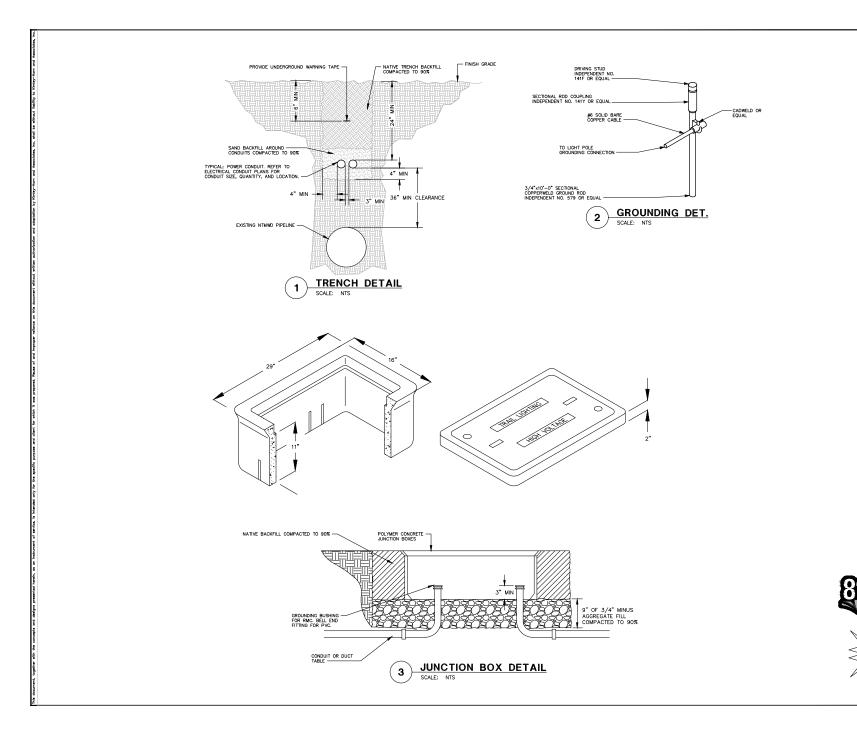






E-8

MUNICIPAL COMPLEX TRAIL LIGHTING PREPARED FOR CITY OF WYLIE **ELECTRICAL LAYOUT**





Kimley » Horn

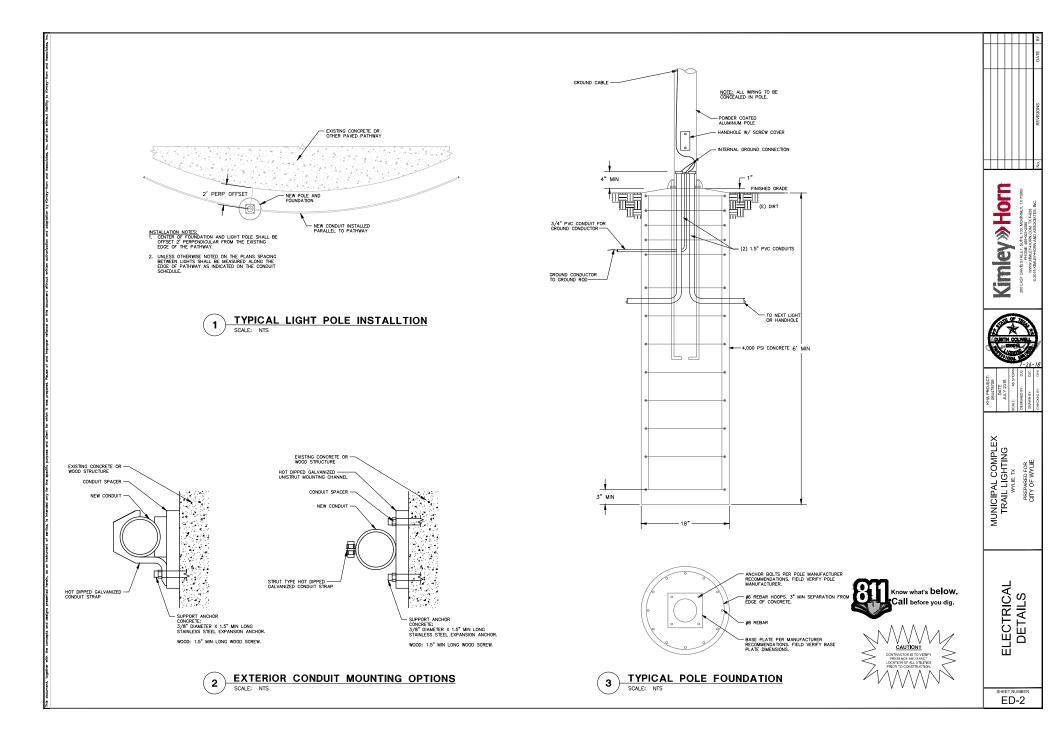
JULY 2018
SCALE. AS SHOWN
DESIGNED BY: DUC

MUNICIPAL COMPLEX TRAIL LIGHTING WALE, TX PREPARED FOR CITY OF WALLE

> ELECTRICAL DETAILS

Know what's below.

SHEET NUMBER
ED-1



	GONDUIT RUN		CONDUIT RU				NDUIT RUN 1:1.5" PVC (8CH 80) 1-1.5" PVC (8CH 80) 1:1.5" RGS		1-1.6" RGS BRIDGE	PROP		
CIRCUIT	FROM	TO	BORED LENGTH (LF)	THENCHED LENGTH (LF)	MOUNTED LENGTH (LF)	CONDU		GROUND				
-	18E-R	10		(EF)				BY SERVICE PROVIDER				
,	196					BY SERVICE	PROVIDER	BY SERVICE PROVIDER				
ES-W C	JB-01	ART CONTROLLER		136		26		#6				
8-W 'A.B	JB-01	LP-W01A	- 11	267		24		#8				
8-W 'A.B	JB-01	LP-W01B		492		286,	2#6	#8				
S-W 'A,B	LP-W01B	LP-W02A			101	2#6,	2#6	#0				
E8-W 'A.B	LP-W02A	LP-W02B		95		246.	2#6	#6				
8-W 'A,B	LP-W02B	LP-W03A		65		246.		#6				
9-W 'A,B	LP-W03A	LP-W03B		95		2#6,	2#6	#0				
5-W 'A.B	LP-W03B	LP-W04A		255		2#6,	2#6	#6				
8-W 'A,B	LP-W04A	LP-W04B		261		246.	2#6	#6				
8-W 'A.B	LP-W04B	LP-W05A		236		2#6,	2#6	#0				
5-W 'A.B	LP-W05A	LP-W05B		296		2#6.		#0				
8-W 'A,B	LP-W05B	LP-W06A		85		246.		#6				
8-W 'A.B	LP-W06A	LP-W06B		88		286.		#6				
5-W 'A.B	LP-W06B	LP-W07A		86		2#6.		#0				
5-W 'A,B	LP-W07A	LP-W07B		102		2#6,		#6				
8-W 'A,B	LP-W07B	LP-W08A		88		286.		#6				
S-W 'A.B	LP-W08A	LP-W08B		90		2#6.		#0				
5-W 'A,B	LP-W08B	LP-W09A		297		2#6,	2#6	#6				
8-W 'A.B	LP-W09A	LP-W09B		65		246.		#6				
8-W 'A.B	LP-W09B	LP-W10A		76		2#6,	2#6	#8				
5-W 'A,B	LP-W10A	LP-W10B		86		2#6,		#0				
6-W 'A,B	LP-W10B	LP-W11A		100		2#6.		#8				
E8-W 'A.B	LP-W11A	LP-W11B		08		2#6,		#8				
IS-W 'A.B	LP-W11B	LP-W12A		67		2#6,		#0				
5-W 'A.B	LP-W12A	LP-W128		63		2#6,		#0				
8-W 'A.B	LP-W128	LP-W13A		62		246.		#6				
8-W 'A.B	LP-W13A	LP-W13B		97		2#6.		#0				
5-W 'A,B	LP-W13B	LP-W14A		89		2#6,		#0				
8-W 'A.B	LP-W14A	LP-W14B		67		246.	2#6	#6				
8-W 'A.B	LP-W14B	LP-W15A	20	87		2#6,	2#6	#8				
S-W 'A.B	LP-W15A	LP-W15B		62		2#6.	2#6	80				
6-W 'A.B	LP-W15B	JB-02	22	66		2#6.		#6				
8-W 'A.B	JB-02	LP-W16A		99		2#6,		#6				
S-W 'A.B	LP-W16A	LP-W16B		338		2#6.	2#6	#0				
5-W 'A.B	LP-W16B	LP-W17A		322		2#6.	2#6	80				
8-W 'A.B	LP-W17A	LP-W178		285		246.	2#6	#6				
S-W'A.B	LP:W178	LP-W18A		328		2#6.	2#6	#0				
19-W 'A.B	LP-W18A	LP-W18B		79		28	ró.	#0				
E8-W 'A.B	JB-02	LP-W19B		224		246,	2#6	#6				
8-W 'A.B	LP-W19B	LP-W19A		232		2#6.	2#6	#8				
15-W 'A.B	LP-W19A	LP-W20B		294		2#6.	2#6	#0				
5-W 'A.B	LP-W20B	LP-W20A		295		26		#0				
ES-E'A.B	JB-04	LP-E01A		16		26		#8				
ES-E 'A.B	JB-04	LP-E01B		100		2#6.	2#6	#0				
ES-E'A.B	LP-E01B	LP-E02A			102	2#6,		#O				
ES-E'A,B	LP-E02A	LP-E02B			86	2#6.	2#6	#6				
ES-E 'A.B	LP-E02B	LP-E03A		79		2#6,	2#6	#6				
ES-E'A.B	LP-E03A	LP-E03B	17	179		2#6,		80				
E5-E 'A.B	LP-E03B	JB-03	26			2#6.	2#6	#6				
E8-E 'A.B	JB-03 LP-E04A	LP-E04A		101		246.		#6				
ES-E 'A.B		LP-E04B		42		2#6,		#0				
ES-E 'A,B	LP-E04B	LP-E05A		79		2#6,	2#6	#0				
8-E 'A.B	LP-E05A	LP-E05B		82		246.		#6				
S-E 'A.B	LP-E05B	LP-E06A		98		2#6.		#6				
S-E 'A.B	LP-E06A	LP-E06B		90		2#6,		#0				
5-E 'A.B	LP-E06B	LP-E07A		106		2#6,		#8				
8-E 'A.B	LP-E07A	LP-E07B		314		2#6.	2#6	#6				
19-E 'A,B	LP-E07B	LP-E08A		91		2#6,	2#6	#0				
5-E 'A B	LP-E08A	LP-E08B		97		2#6.		#6				
8-E 'A.B	LP-E08B	LP-E09A		66		246.		#6				
S-E 'A.B	LP-E09A	LP-E09B		96		2#6,		#0				
E5-E 'A.B	LP-E09B	LP-E10A	14	71		2#6,	2#6	#0				
ES-E'A.B	LP-E10A	LP-E10B	10	26		2#6.	2#6	#6				
ES-E 'A.B	LP-E10B	LP-E11A		66		2#6.		#6				
S-E 'A.B	LP-E11A	LP-E11B		93		2#6,		#0				
S-E 'A.B S-E 'A.B	LP-E11B	LP-E12A		98		2#6,		#6				
8-E 'A.B	LP-E12A	LP-E12B		68		2#6.		#6				
IS-E 'A.B	LP-E128	LP-E13A		96		286.		#0				
5-E 'A.B	LP-E13A	LP-E138		100		2#6,		#0				
5-E 'A,B	LP-E138	LP-E14A		95		2#6.		#8				
8-E 'A.B	LP-E14A	LP-E14B		100		2#6.		#0				
S-E 'A.B	LP-E14B	LP-E15A		99		2#6,		#0				
5-E 'A.B	LP-E15A	LP-E15B		100		2#6,	2#6	#6				
8-E 'A.B	LP-E 15B	LP-E16A		69		2#6.	2#6	#6				
B-E 'A.B	LP-E16A	LP-E16B		92		2#6,	2#6	#0				
5-E 'A.B	LP-E16B	LP-E17A		93		2#6.	2#6	#6				
8-E 'A.B	LP-E17A	LP-E178		63		246.	2#6	#6				
S-E 'A.B	LP-E178	LP-E18A		109		2#6.	2#6	#0				
S-E 'A.B	LP-E18A	LP-E18B		217		26	16	#0				
S-E 'A-B	JB-03	LP-E19A		56		246.		#6				
8-E 'A.B	JB-03 LP-E19A	LP-E198		307		286.	2#6	#0				
S-E 'A.B	LP-E 198	LP-E20A		316		2#6.		#0				
5-E 'A.B	LP-E20A	LP-E20B		292		286.		#6				
		LP-E21A										

	ELECTRICAL SERVICE DETAILS										
Elec.	Electrical Service Description	Service	Service	Safety	Main	Two-Pole	Panelbd/	Circuit	Branch	Branch	PANEL
Service		Conduit	Conductors Switch Ckt. Bkr. Cont	Contactor	Loadcenter	No.	Ckt. Bkr.	Circuit	VA		
No.		Size	No./Size	Amps	Pole/Amp	Amps	Amp Rating		Pole/Amps	Amps	Load
ES-W	120/240V-60A	2*	3/#4	N/A	2P/60	30	100	A - TRAIL LIGHTS	2P/20	4.5	1080
	ALUMINUM PEDESTAL MOUNT							B - TRAIL LIGHTS	2P/20	4.5	1080
								C - LANDSCAPE LIGHTING	1P/15	1.0	120
								D - CONTACTOR CONTROL	1P/15		
ES-E	120/240V-60A	2*	3/#4	N/A	2P/60	30	100	A - TRAIL LIGHTS	2P/20	4.5	1080
202	ALUMINUM PEDESTAL MOUNT		UII-1	1671	2,700	- 00	100	B - TRAIL LIGHTS	2P/20	4.5	1080
								C - CONTACTOR CONTROL	1P/15		







MUNICIPAL COMPLEX TRAIL LIGHTING WILE,TX PREPARED FOR CITY OF WYLE

> ELECTRICAL TABLES

SHEET NUMBER ED-3

Cree EdgeTM Series

Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cost aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment, spun vented

cover, high performance aluminum heat sinks and leaf/debris guard. **Applications:** Auto Dealerships, parking lots, campuses, facade lighting and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

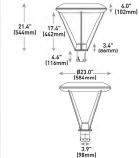
See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPK	Backlight Control Shields XA-20BLS-4 - Four-pack - Unpainted Stainless steel







LED Count (x10)	Weight
04	33.8 lbs. (15.3kg)
06	35.2 lbs. (15.9kg)
08	37.0 lbs. (16.8kg)
10	40.7 lbs. (18.5kg)
12	42.4 lbs. [19.3kq]

R4/R5 Mount - see page 14 for weight & dimensions

Ordering Information

Example: ARE-EDR-2M-R3-12-E-UL-SV-350

ARE-EDR					E				
Product	Optic		Mounting*	Count (x10)	Series	Voltage	Color Options	Drive Current	Options
ARE-EDR	ZM Type II Medium ZMB Type II Medium w/BLS ZMP Type II Medium w/BLS 3M Type III Medium JMB Type III Medium JMB Type III Medium JMB Type III Medium W/BLS	JMP Type III Medium W/Partial BLS 4M Type IV Medium 4MB Type IV Medium W/BLS 4MP Type IV Medium W/Partial BLS 5M Type V Medium 5S Type V Short	R3 Spider. Center Tenon, 2-3/8" to 3" 0D R4 Spider, Center Direct, 4" Square R5 Spider, Center Direct, 5" Round	04** 06** 08** 10 12	Е	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	350 350mA 528 525mA 700 700mA - Available with 40-60 LEDs	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current Fuse - Why code dictates fusing, use time - Why code dictates fusing, use time - Available for U.S. applications only - Hard for U.S. applications only - H. Hi/Low Dual Circuit Input] - Refer to III, specs sheet for details - Refer to III, specs sheet for details - Photocett - Available with U.U. vottage only - 40K - 4000K Color Temperature - Millimmur Ot CRI

* Reference EPA and pole configuration suitability data beginning on page 14

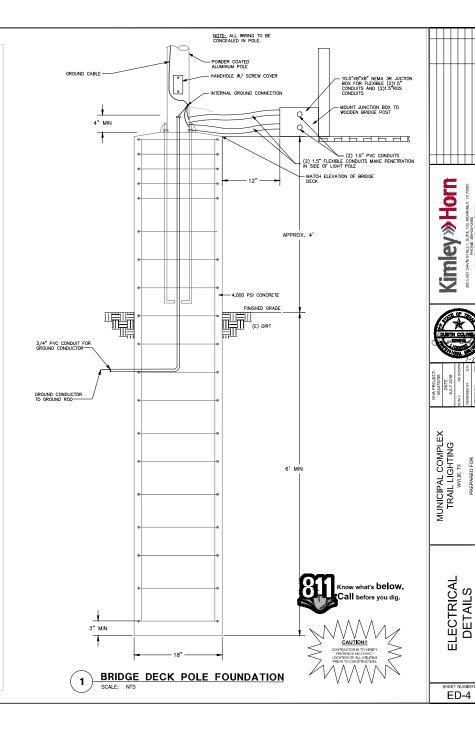
** Consists of multiple 20 LED light bars. AQ, 60, and 80 LED units use blanks as needed in place of populated light bars NOTE: Price adder may apply depending on configuration





T (800) 236-6800 F (262) 504-5415

Rev. Date: V5 12/07/2017



PREPARED FOR CITY OF WYLIE

RSW™ LED Street Luminaire - Medium

Product Description

The Cree® RSW Series, utilizing WaveMax® Technology, will transform the way utilities and municipalities light their residential streets, interchanges, and expressways. With the first viable LED streetlight at warm CCT, the RSW Series delivers up to 124 LPW, enhanced visual comfort with reduced ager and high color contrast leading to improved overall illumination using less energy. The RSW Series provides warm, inviting dark sky friendly lighting that makes good economic sense. Applications: Readway

Performance Summary

Utilizes Cree WaveMax® Technology

Assembled in the U.S.A. of U.S. and imported parts

Efficacy: Up to 124 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5000K); 80 CRI (2700K, 3000K, 4000K & 5000K)

CCT: 2700K, 3000K, 4000K, 5000K

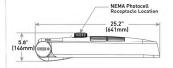
Limited Warranty[†]: 10 years

*See http://lighting.cree.com/warranty for warranty terms

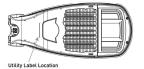
Accessories

Field-Installed	
Backlight Control Shield	Rird Guard
RSW-BLSM	RSW-BRDGRDM
- Provides 1 mounting beight cutoff	









Weight*	
13.8 lbs (6.3kg)	

Ordering Information

Example: RSWM-A-HT-2ME-9L-27K8-UL-GY-N

RSWM Product	A Version	HT Mounting	Optic	9L Lumen Package**	CCT/CRI	UL Voltage	Color Options	N Utility Label/Receptacle	Options

^{*} Available with Backlight Shield when ordered with field-installed accessory Isse table above!

**Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values.

Rev. Date: V3 12/22/2017











T [800] 473-1234 F [800] 890-7507





MUNICIPAL COMPLEX TRAIL LIGHTING PREPARED FOR CITY OF WYLIE

ELECTRICAL DETAILS

ED-5







Canada: www.cree.com/canada