



### ADDENDUM NUMBER ONE RFB 14-2477

#### Canopy Extension for the Hazardous Waste Facility at Metro Central Transfer Station

*Note: The following additions to RFB 14-2477 hereby become part of the Request for Bids. It is essential that all prospective Bidders note the content of the Addendum.*

In the interest of fairness, this information is being provided to all interested bidders.

1. Added- Pavement marking on resurfaced asphalt driveway.
  - A. See added specification on Sheet G-7 (Rev 1).
  - B. See change to Detail 2, Sheet A-1 (Rev 1).
2. Added- Two braces (L 6"X6"X3/8") at west end of the structure.
  - A. See Section A, Sheet A-5 (Rev 1).
  - B. See Detail 1 and Section A, Sheet A-8 (Rev 1).
3. Clarify- Anchor bolt embedment will be 6". See Detail 1, Sheet A-6 (Rev 1).
4. A revised set of plans is attached for your convenience.

All other terms and conditions of this solicitation remain the same.

**Attachments:**

*Cascade Design Professionals Plans:*

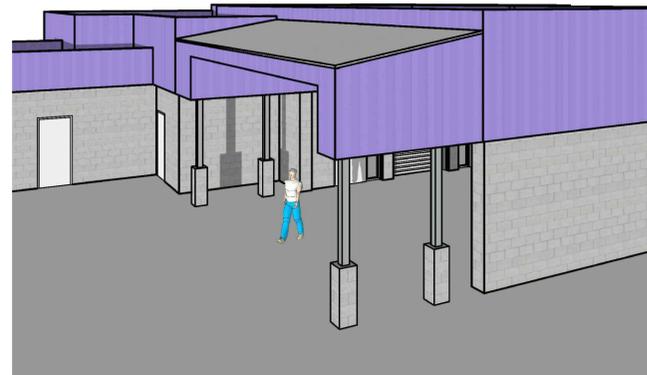
*"Metropolitan Service District – Metro Central Household Hazardous Waste Collection Facility – Canopy Extension", dated 8/1/13 (with Addendum 1 Revisions dated 8/26/13)*

Issued August 23, 2013

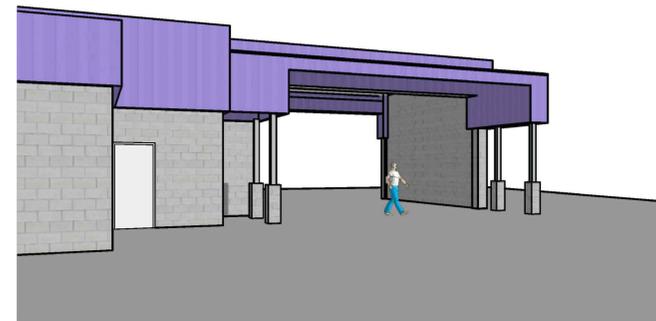
A handwritten signature in cursive script, reading "Sharon Stiffler".

Sharon Stiffler, CPPB  
Procurement Analyst

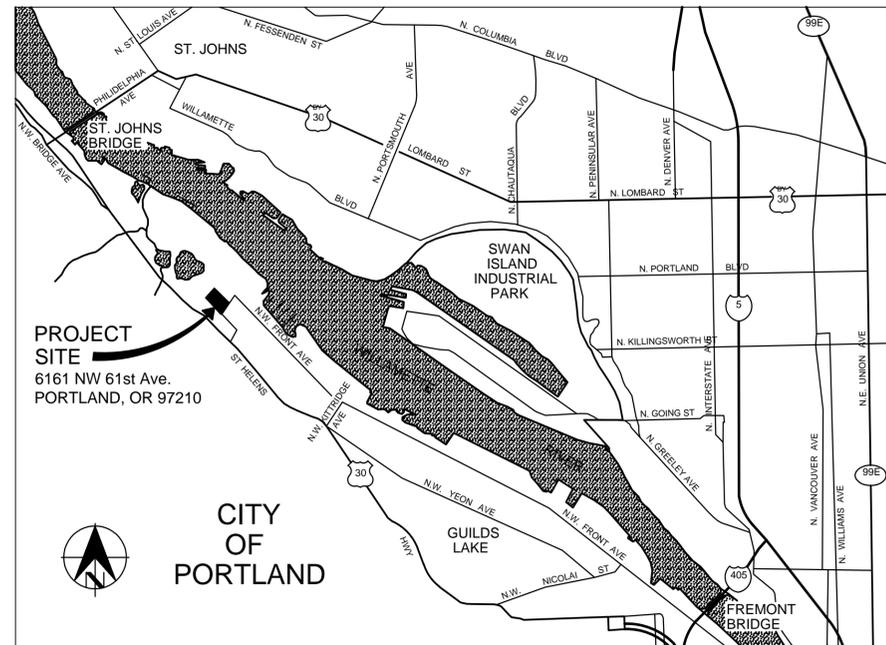
# METROPOLITAN SERVICE DISTRICT METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION PORTLAND, OREGON



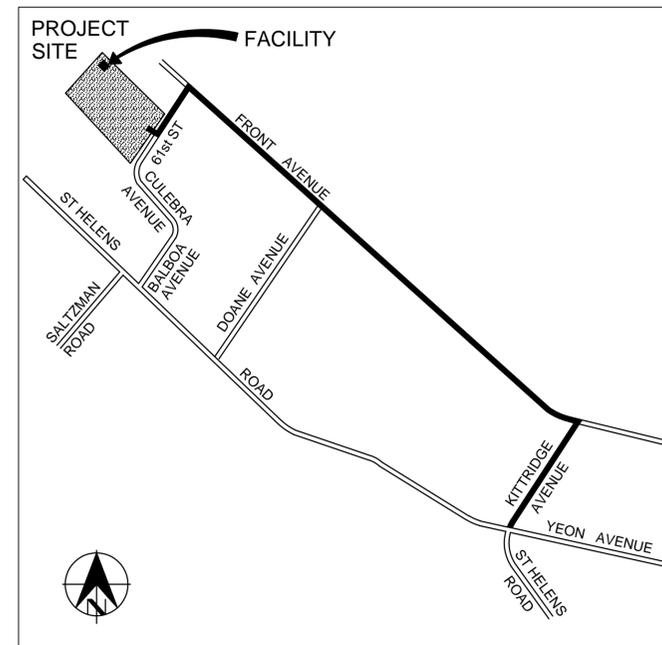
**EXTERIOR PERSPECTIVE FROM EAST**  
(FOR VISUALIZATION PURPOSES ONLY)



**EXTERIOR PERSPECTIVE FROM SOUTH**  
(FOR VISUALIZATION PURPOSES ONLY)



**LOCATION MAP**



**VICINITY MAP**

OWNER	ENGINEER
METRO 600 NE GRAND AVE. PORTLAND, OR 97232 503-797-1700	CASCADE DESIGN PROFESSIONALS, INC. 2780 SE HARRISON ST. STE 104 MILWAUKIE, OR 97222 503-652-9090
CONTACT: PETE HILLMANN	CONTACT: PAUL KLUVERS

LEGAL DESCRIPTION
SECTION 13 1N 1W, TL 600 10.43 ACRES, SEE R324192 (R961130131)

DRAWING INDEX		
SHT. NO.	DWG. NO.	TITLE
GENERAL		
1	G-1	COVER SHEET
2	G-2	SITE PLAN
3	G-3	CODE INFO
4	G-4	STRUCTURAL NOTES
5	G-5	ARCHITECTURAL NOTES
6	G-6	ARCHITECTURAL NOTES
7	G-7	ARCHITECTURAL NOTES
ARCHITECTURAL		
8	A-1	FOUNDATION & ROOF PLANS
9	A-2	ELECTRICAL PLAN
10	A-3	FIRE SPRINKLER PLAN
11	A-4	EXTERIOR ELEVATIONS
12	A-5	SECTIONS
13	A-6	SECTIONS & DETAILS
14	A-7	SECTIONS & DETAILS
15	A-8	SECTIONS & DETAILS

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



METRO CENTRAL HOUSEHOLD HAZARDOUS  
WASTE COLLECTION FACILITY  
CANOPY EXTENSION

8/1/13

CONSTRUCTION DOCUMENTS

COVER SHEET

**OWNER**  
METROPOLITAN SERVICE  
DISTRICT  
PORTLAND, OR

NO.	DATE	DESCRIPTION	BY

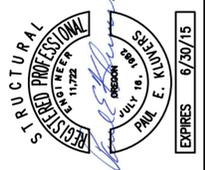
1 INCH

DRAWING NO.:  
**G-1**

PROJECT NO.:  
CD1310

SHEET 1 OF 15

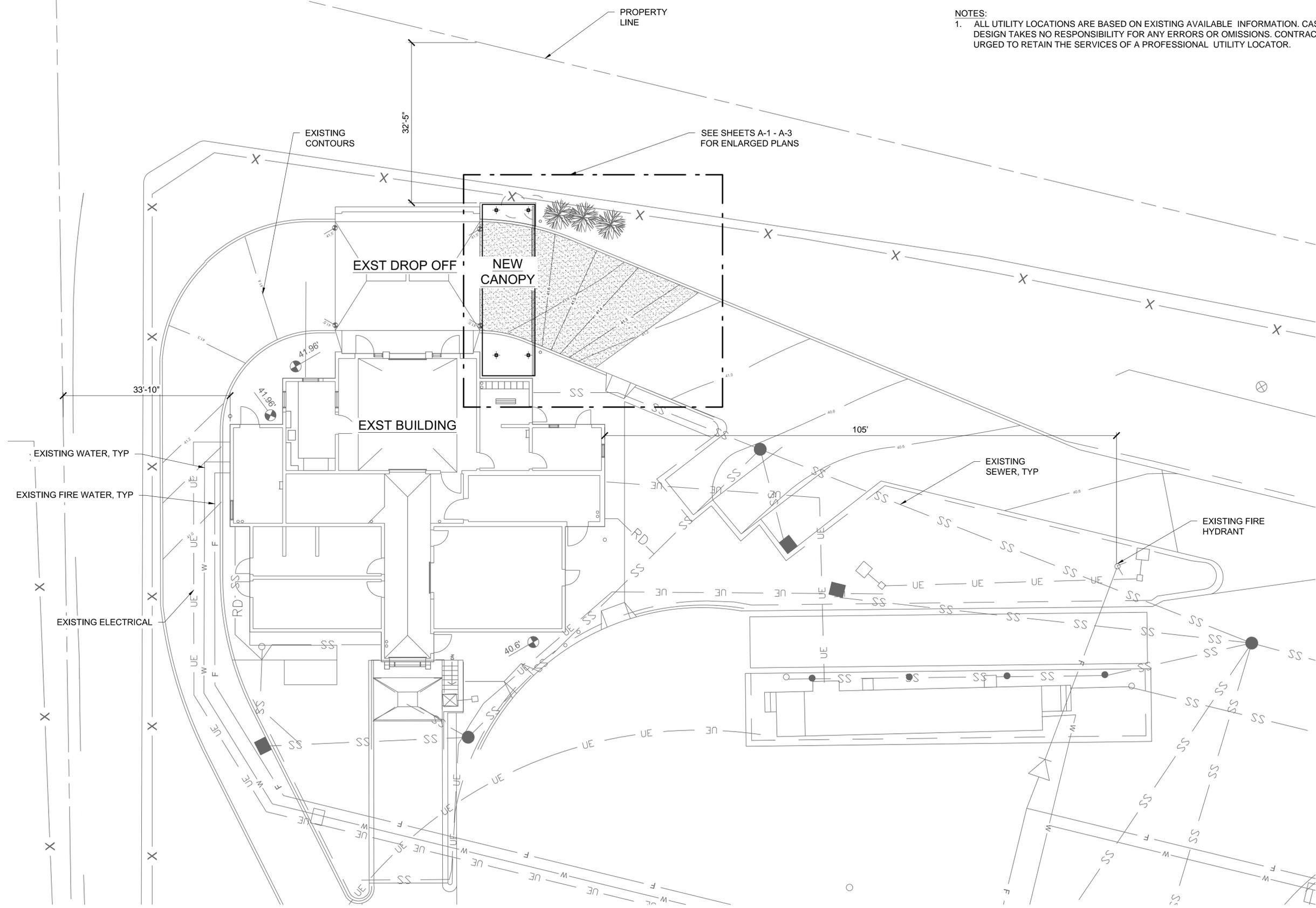
DESIGNED BY: ELP    DRAWN BY: JM    CHECKED BY: PEK



NO.	DATE	DESCRIPTION	BY

**NOTES:**

- ALL UTILITY LOCATIONS ARE BASED ON EXISTING AVAILABLE INFORMATION. CASCADE DESIGN TAKES NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS. CONTRACTOR IS URGED TO RETAIN THE SERVICES OF A PROFESSIONAL UTILITY LOCATOR.



**SITE PLAN**  
 SCALE: 1"=10'-0"

1 INCH

**CODE INFORMATION**

**PROJECT DESCRIPTION**

A 416 SF EXTERIOR ROOF CANOPY ADDITION TO AN EXISTING ONE STORY CONCRETE MASONRY BUILDING. THE EXISTING BUILDING, BUILT IN 1993, CONTAINS RECEIVING OPERATIONS FOR HOUSEHOLD HAZARDOUS WASTE. NEW CONSTRUCTION OF THE CANOPY INCLUDES ASPHALT PAVING, CONCRETE FOUNDATIONS, STRUCTURAL STEEL WORK, LIGHT GAUGE METAL FRAMING TO SUPPORT METAL WALL PANELS, AND STANDING SEAM METAL ROOFING. THE EXISTING FIRE SPRINKLER SYSTEM WILL BE EXTENDED TO PROVIDE FIRE PROTECTION IN THE NEW CANOPY. ELECTRICAL WORK IS LIMITED TO POWER OUTLETS IN THE CANOPY AREA AND NEW LIGHTING IN THE DROP OFF AND CANOPY AREAS. THE STRUCTURE FOR THE NEW CANOPY DOES NOT BEAR ON THE EXISTING STRUCTURE, THE PHYSICAL CONNECTION BETWEEN THE THE EXISTING STRUCTURE AND NEW CANOPY IS LIMITED TO WEATHERPROOFING.

**APPLICABLE CODES**

- 2009 International Building Code
- 2011 Oregon Electrical Specialty Code
- 2010 Oregon Mechanical Specialty Code
- 2011 Oregon Plumbing Specialty Code
- 2010 Oregon Structural Specialty Code

**Chapter 3 USE & OCCUPANCY**

*Building Occupancy Type: H-3 with an Accessory Occupancy of H-2 (Bulking Room - 295 sf)*

*Ground Level - Existing: 3,620 sf*

*Covered Area - Existing: 870 sf*

*Covered Area - New: 416 sf*

*Gross Building Area: 4,906 sf*

*Impervious Surface - New: 44 sf*

**Chapter 5 HEIGHTS & AREAS**

Table 503: ALLOWABLE BUILDING HEIGHTS AND AREAS

Occupancy Type H-2, Construction Type II (B) Fully Sprinklered Throughout

55' High, 2 stories and 14,000 sf maximum per story

*Actual Building Area: 4,906 gross S.F.*

*Actual Building Height: 1 story, Varies, and 18'-6" Max*

Table 508.4 REQUIRED SEPARATION OF OCCUPANCIES

One hour fire separation required between H-3 and accessory occupancy H-2

*Existing Construction*

**Chapter 6 CONSTRUCTION TYPES**

Table 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

*Type II (B) 0 hour construction allowed*

Table 602 Fire Resistance of Ext. walls based on Fire Separation Distance

*≥ 10', Type V (B) 0 hour construction allowed.*

**Chapter 9 FIRE PROTECTION**

SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

902.2.5.1 General: An automatic sprinkler system shall be installed in Group H occupancies.

*An automatic sprinkler system will be provided in the new construction*

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091

METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
CODE INFO

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: ELP    DRAWN BY: JM    CHECKED BY: PEK

1 INCH

PROJECT NO.: CD1310    DRAWING NO.: **G-3**

SHEET 3 OF 15



**DIVISION 01 - GENERAL REQUIREMENTS**

- A. PERFORM ALL WORK IN COMPLIANCE WITH LOCAL AND STATE CODES AND ORDINANCES. COMPLY WITH REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE.
- B. PROVIDE A ROOF CANOPY EXTENSION TO THE EXISTING DROP OFF AT THE HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY. WORK TO INCLUDE MINOR SELECTIVE DEMOLITION AND NEW CONSTRUCTION OF STRUCTURAL COLUMNS, ROOF, ELECTRICAL AND FIRE SPRINKLER WORK. CIVIL WORK INCLUDES AN ASPHALT OVERLAY TO MODIFY EXISTING DRAINAGE.
- C. OWNER SHALL OCCUPY THE BUILDING THROUGHOUT CONSTRUCTION. PROVIDE OWNER 24-HOUR NOTICE OF POWER AND WATER SHUT OFFS.
- D. PROVIDE MEANS TO CONTROL DUST.
- E. CLEAN SPACES WHERE NEW WORK OCCURS AS THE WORK PROGRESSES.
- F. NEW WORK SHALL BE WEATHER TIGHT.
- G. SELECTIVE DEMOLITION TO COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITY HAVING JURISDICTION. COMPLY WITH ANSI A10.6 AND NFPA 241.

**DIVISION 03 - CONCRETE**

**033000 CAST IN PLACE CONCRETE**

- A. SEE STRUCTURAL GENERAL NOTES FOR INFORMATION ON CAST IN PLACE CONCRETE.

**DIVISION 04 - MASONRY**

**042200 CONCRETE UNIT MASONRY**

- A. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION ON CONCRETE MASONRY.
- B. SUBMIT PRODUCT DATA FOR CONCRETE MASONRY UNITS, MORTAR AND GROUT.
- C. COLD-WEATHER REQUIREMENTS: DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBSTRATES. REMOVE AND REPLACE UNIT MASONRY DAMAGED BY FROST OR BY FREEZING CONDITIONS. COMPLY WITH COLD-WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602.
- D. HOT-WEATHER REQUIREMENTS: COMPLY WITH HOT-WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602.
- E. KEEP CONCRETE BLOCK DRY PRIOR TO INSTALLATION.
- F. CONCRETE MASONRY UNITS: ASTM C 90.
  - 1. UNIT COMPRESSIVE STRENGTH: PROVIDE UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 1900 PSI.
  - 2. WEIGHT CLASSIFICATION: NORMAL WEIGHT.
  - 3. BLOCK DENSITY > 110 PCF.
  - 4. PATTERN AND TEXTURE FOR DECORATIVE UNITS: SEE DRAWINGS FOR PATTERN AND LOCATIONS.
- G. PROVIDE 8"x8"x4" BLOCKS, COLOR AND TEXTURE TO MATCH EXISTING. PATTERN AND LAYOUT AS INDICATED IN DRAWINGS.
- H. SPECIAL SHAPES: PROVIDE 4X8X16 PRECAST CONCRETE SLOPED CAP AT TOP OF CONCRETE BLOCK PILASTERS AS SHOWN ON DRAWINGS, COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD COLORS.
- I. MORTAR MATERIALS:
  - 1. PORTLAND CEMENT: ASTM C 150, TYPE I OR II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION.
  - 2. HYDRATED LIME: ASTM C 207, TYPE S.
  - 3. MASONRY CEMENT: ASTM C 91.
  - 4. PRODUCTS: MUTUAL MATERIALS; DESIGN MIX COLORED MORTAR MIX OR APPROVED EQUAL, COLOR TO MATCH EXISTING.
- J. CLEAR PLASTIC WEEP: PROVIDE ONE-PIECE, FLEXIBLE EXTRUSION MADE FROM UV-RESISTANT PLASTIC TO PROVIDE DRAINAGE OF MOISTURE FROM MASONRY CAVITY. 3/8" O.D. X 1/4" I.D.X4". PROVIDE ONE WEEP AT THE BASE OF EACH CONCRETE MASONRY PILASTER.
- K. CONCRETE MASONRY INSTALLATION:
  - 1. LAY HOLLOW CONCRETE MASONRY UNITS AS FOLLOWS:
    - i. WITH FACE SHELLS FULLY BEDDED IN MORTAR AND WITH HEAD JOINTS OF DEPTH EQUAL TO BED JOINTS.
    - ii. WITH WEBS FULLY BEDDED IN MORTAR IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS.
    - iii. WITH ENTIRE UNITS, INCLUDING AREAS UNDER CELLS, FULLY BEDDED IN MORTAR AT STARTING COURSE ON FOOTINGS WHERE CELLS ARE NOT GROUTED.
  - 2. LAY SOLID MASONRY UNITS WITH COMPLETELY FILLED BED AND HEAD JOINTS; BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE. DO NOT DEEPLY FURROW BED JOINTS OR SLUSH HEAD JOINTS.
  - 3. TOOL EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD, USING A JOINTER LARGER THAN JOINT THICKNESS, UNLESS OTHERWISE INDICATED.

**DIVISION 05 - METALS**

**051200 STRUCTURAL STEEL**

- A. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION ON STRUCTURAL STEEL.
- B. SUBMIT SHOP DRAWINGS THAT INDICATE PROFILES, SIZES, SPACING, ATTACHMENTS, BOLTS AND WELDS.
- C. ALL STRUCTURAL STEEL TO BE SHOP PRIMED.

**053123 STEEL ROOF DECKING**

- A. SUBMIT PRODUCT DATA FOR EACH TYPE OF DECKING SPECIFIED, INCLUDING DIMENSIONS OF INDIVIDUAL COMPONENTS, PROFILES, AND FINISHES.
- B. SUBMIT SHOP DRAWINGS WHICH ARE TO INCLUDE DECK LAYOUT, DECK TYPE AND GAUGE, FRAMING AND SUPPORT OF OPENINGS, DIMENSIONS AND SECTIONS, DETAILS OF ACCESSORIES AND TYPE AND LOCATION OF WELDS.
- C. METAL ROOF DECK TO BE ASC STEEL DECK B-36 20 GAUGE; 1 1/2 INCHES DEEP BY 36 INCHES WIDE OR APPROVED EQUAL. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653 SS GRADE 40 WITH A GALVANIZED COATING.
- D. METAL DECK FABRICATION: MANUFACTURE DECK UNITS TO LENGTHS AS INDICATED ON SHOP DRAWINGS. PANEL END CONDITIONS ARE TO BE BUTTED OR END-LAPPED, 2" MINIMUM. SIDELAPS ARE TO BE NESTABLE OR INTERLOCKING WHEN USING SCREW-TYPE FASTENERS.
- E. ACCESSORIES: FABRICATE STEEL DECK ACCESSORIES (NOT INCLUDING CELL CLOSURES) FROM THE SAME GAUGE AND MATERIALS AS ADJACENT STEEL DECK.
- F. INSTALLATION:
  - a. INSTALL THE METAL DECK AND ACCESSORIES IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.
- G. FINISH: MANUFACTURERS STANDARD PRIMER.

**054000 COLD FORMED METAL FRAMING**

- A. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFO
- B. PROVIDE LIGHT GAUGE METAL FRAMING AS SHOWN IN THE DRAWINGS.
- C. FRAMING MATERIALS:
  - 1. STUDS AND TRACKS: ASTM C645, GALVANIZED SHEET STEEL, 0.030 INCH THICK, C SHAPE.
  - 2. FURRING, FRAMING, AND ACCESSORIES: ASTM C645.
  - 3. FASTENERS: ASTM C1002 LENGTH TO SUIT APPLICATION.
  - 4. ANCHORAGE TO SUBSTRATE: TIE WIRE, NAILS, SCREWS, AND OTHER METAL SUPPORTS, OF TYPE AND SIZE TO SUIT APPLICATION; TO RIGIDLY SECURE MATERIALS IN PLACE.
  - 5. HAT CHANNELS: 18 GAUGE
- D. METAL STUD INSTALLATION:
  - 1. INSTALL STUDS IN ACCORDANCE WITH ASTM C754.
  - 2. METAL STUD SPACING: 16 INCHES ON CENTER.

**DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

**074213 METAL WALL PANELS**

- A. SUBMIT PRODUCT DATA FOR EACH TYPE OF METAL WALL PANEL AND ACCESSORY INDICATED.
- B. PROVIDE METAL WALL PANELS TO MATCH PROFILE AND COLOR OF EXISTING METAL FASCIA WALL PANELS, 26 GAUGE MINIMUM.
- C. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS.
- D. WALL PANEL ACCESSORIES: PROVIDE COMPONENTS REQUIRED FOR A COMPLETE METAL WALL PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIAE, CORNER UNITS, RIDGE CLOSURES, CLIPS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL WALL PANELS, UNLESS OTHERWISE INDICATED.
- E. SOFFIT PANELS: TO BE PROVIDED BY WALL PANEL MANUFACTURER. MATCH FINISH OF WALL PANELS AND STYLE OF EXISTING SOFFIT PANELS.

**076100 SHEET METAL ROOFING**

- A. SUBMIT PRODUCT DATA FOR EACH TYPE OF METAL ROOF PANEL AND ACCESSORY INDICATED.
- B. SPECIAL WEATHERTIGHT WARRANTY: SUBMIT A WRITTEN WARRANTY EXECUTED BY MANUFACTURER AGREEING TO REPAIR OR REPLACE METAL ROOF PANEL ASSEMBLY THAT FAILS TO REMAIN WEATHERTIGHT WITHIN THE SPECIFIED WARRANTY PERIOD.
  - 1. MANUFACTURER'S WEATHERTIGHT WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
  - 2. INSTALLER'S WEATHERTIGHT WARRANTY PERIOD: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION, RUNNING CONCURRENTLY WITH MANUFACTURER'S WEATHERTIGHT WARRANTY.
- C. PERFORMANCE REQUIREMENTS: WIND-UPLIFT RESISTANCE: COMPLY WITH UL 580 FOR WIND-UPLIFT RESISTANCE CLASS UL 90.
- D. PRODUCTS: CUSTOM-BILT METALS, TITAN CB-2000 OR APPROVED EQUAL.
- E. MATERIALS:
  - 1. PANELS: BARE ZINCALUME/GALVALUME IN 24 GAUGE CONFORMING TO ASTM A792, A250
  - 2. FACTORY-APPLIED SEAM SEALANT: HOT APPLIED BUTYL SEALANT OR COLD APPLIED NON-SKINNING BUTYL.
  - 3. CONFIGURATION: STANDING SEAM: ROOF PANELS SHALL CONSIST OF MECHANICAL SEAM-LOCKING STANDING SEAMS 2" HIGH SPACED 18" ON CENTER. PROVIDE PANELS IN FULL LENGTH FROM RIDGE TO EAVE.
  - 4. FLASHING MATERIAL, GAUGE AND FINISH TO MATCH PANELS.
  - 5. PROVIDE SLIP SHEET, BUILDING PAPER, MINIMUM 5 LB/100 SQ. FT. ROSIN SIZED, IF RECOMMENDED BY ROOFING MANUFACTURER FOR ROOFING ASSEMBLY.
  - 6. ROOF PANEL ACCESSORIES: PROVIDE COMPONENTS REQUIRED FOR A COMPLETE METAL ROOF PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIAE, CORNER UNITS, RIDGE CLOSURES, CLIPS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL ROOF PANELS, UNLESS OTHERWISE INDICATED:
    - i. PROVIDE CLIPS DESIGNED TO ALLOW PANELS TO THERMALLY EXPAND AND CONTRACT
    - ii. PROVIDE FASTENERS PER MANUFACTURER'S RECOMMENDATION
    - iii. SEALANT: GUNNABLE GRADE CAULKING: SINGLE COMPONENT POLYURETHANE CAULK OR GUNNABLE GRADE BUTYL.
    - iv. TAPE SEALANT: BUTYL

**F. EXECUTION:**

- 1. EXISTING CONDITIONS: VERIFY THAT MEMBERS TO RECEIVE PANELS ARE COMPLETE, ACCURATELY SIZED AND LOCATED, IN TRUE PLANE, SECURE AND OTHERWISE PROPERLY PREPARED PRIOR TO STARTING WORK. NOTIFY GENERAL CONTRACTOR ABOUT ANY DEFECTS REQUIRING CORRECTION. DO NOT START WORK UNTIL CONDITIONS ARE SATISFACTORY. MAXIMUM SUBSTRATE VARIATION: 1/4 INCH IN 20 FEET.
- 2. PROTECTION: TREAT, OR ISOLATE WITH PROTECTIVE MATERIAL, ANY CONTACTING SURFACES OF DISSIMILAR MATERIALS TO PREVENT ELECTROLYTIC CORROSION.
- 3. SURFACE PREPARATION: CLEAN AND DRY SURFACES PRIOR TO APPLYING SEALANT.
- 4. PANEL INSTALLATION
  - i. COMPLY WITH ROOF PANEL MANUFACTURER'S INSTRUCTIONS FOR ASSEMBLY AND INSTALLATION.
  - ii. DO NOT STRETCH OR COMPRESS PANEL SIDE-LAP.
  - iii. SECURE PANELS WITHOUT WARP OR DEFLECTION.
  - iv. FULLY ENGAGE INTERLOCKING SEAMS.
  - v. REMOVE STRIPPABLE PROTECTIVE FILM, IF USED, IMMEDIATELY PRECEDING PANEL INSTALLATION.
  - vi. CUTTING AND FITTING: NEAT, SQUARE AND TRUE. TORCH OR SAW CUTTING IS PROHIBITED.
- 5. INSTALL FLASHINGS AND ACCESSORIES IN COMPLIANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
ARCHITECTURAL NOTES

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

NO.	DATE	DESCRIPTION	BY

1 INCH  
DRAWING NO.:  
**G-5**  
SHEET 5 OF 15

DESIGNED BY: ELP DRAWN BY: JM CHECKED BY: PEK

076200 SHEET METAL FLASHING AND TRIM

- A. SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR SHEET METAL FLASHING AND TRIM.
- B. SHEET METAL FLASHING AND TRIM STANDARD: COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." CONFORM TO DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
- C. PROVIDE MATERIALS AND TYPES OF FASTENERS, SOLDER, WELDING RODS, PROTECTIVE COATINGS, SEPARATORS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED FOR COMPLETE SHEET METAL FLASHING AND TRIM INSTALLATION.
- D. SHEET METALS:
  - 1. ALUMINUM SHEET: ASTM B 209 ALLOY 3003, 3004, 3105, OR 5005, TEMPER SUITABLE FOR FORMING AND STRUCTURAL PERFORMANCE REQUIRED, BUT NOT LESS THAN H14, FINISHED AS FOLLOWS:
    - i. CLEAR ANODIC FINISH: CLASS II, AA-M12C22A31, COMPLYING WITH AAMA 611.
  - 2. STAINLESS-STEEL SHEET: ASTM A 240/A 240M, TYPE 304, NO. 2D FINISH.
  - 3. ZINC-COATED (GALVANIZED) STEEL SHEET: ASTM A 653/A 653M, G90 COATING DESIGNATION; STRUCTURAL QUALITY, MILL PHOSPHATIZED FOR FIELD PAINTING.
  - 4. ALUMINUM-ZINC ALLOY-COATED STEEL SHEET: ASTM A 792/A 792M, CLASS AZ50 COATING DESIGNATION, GRADE 40; STRUCTURAL QUALITY WITH MANUFACTURER'S STANDARD CLEAR ACRYLIC COATING BOTH SIDES.
- E. FASTENERS: WOOD SCREWS, ANNULAR THREADED NAILS, SELF-TAPPING SCREWS, SELF-LOCKING RIVETS AND BOLTS, AND OTHER SUITABLE FASTENERS DESIGNED TO WITHSTAND DESIGN LOADS.
  - 1. EXPOSED FASTENERS: HEADS MATCHING COLOR OF SHEET METAL BY MEANS OF PLASTIC CAPS OR FACTORY-APPLIED COATING.
  - 2. FASTENERS FOR FLASHING AND TRIM: BLIND FASTENERS OR SELF-DRILLING SCREWS, GASKETED, WITH HEX WASHER HEAD.
  - 3. BLIND FASTENERS: HIGH-STRENGTH ALUMINUM OR STAINLESS-STEEL RIVETS.
- F. BUILT-IN GUTTERS: FABRICATE TO CROSS SECTION INDICATED, WITH RIVETED AND SOLDERED JOINTS, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER SPECIAL ACCESSORIES AS REQUIRED. FABRICATE IN MINIMUM 96-INCH-LONG SECTIONS. FABRICATE EXPANSION JOINTS AND ACCESSORIES FROM SAME METAL AS GUTTERS, UNLESS OTHERWISE INDICATED.
  - 1. ACCESSORIES: CONTINUOUS REMOVABLE LEAF SCREEN WITH SHEET METAL FRAME AND HARDWARE CLOTH SCREEN.
  - 2. FABRICATE BUILT-IN GUTTERS FROM THE FOLLOWING MATERIAL:
    - i. ALUMINUM-ZINC ALLOY-COATED STEEL: 0.0217 INCH THICK MIN.
- G. DOWNSPOUTS: FABRICATE ROUND DOWNSPOUTS COMPLETE WITH MITERED ELBOWS. FURNISH WITH METAL HANGERS, FROM SAME MATERIAL AS DOWNSPOUTS, AND ANCHORS.
  - 1. MANUFACTURED HANGER STYLE: AS SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARDS.
  - 2. FABRICATE DOWNSPOUTS FROM THE FOLLOWING MATERIAL:
    - i. ALUMINUM-ZINC ALLOY-COATED STEEL: 0.0217 INCH THICK MIN.
- H. STEEP-SLOPE ROOF SHEET METAL FABRICATIONS
  - 1. APRON, STEP, CRICKET, AND BACKER FLASHING: FABRICATE FROM THE FOLLOWING MATERIAL:
    - i. ALUMINUM-ZINC ALLOY-COATED STEEL: 0.0217 INCH THICK.
  - 2. DRIP EDGES: FABRICATE FROM THE FOLLOWING MATERIAL:
    - i. ALUMINUM-ZINC ALLOY-COATED STEEL: 0.0217 INCH THICK.
  - 3. EAVE, RAKE AND RIDGE FLASHING: FABRICATE FROM THE FOLLOWING MATERIAL:
    - i. ALUMINUM-ZINC ALLOY-COATED STEEL: 0.0217 INCH THICK.
- I. INSTALLATION, GENERAL
  - 1. GENERAL: ANCHOR SHEET METAL FLASHING AND TRIM AND OTHER COMPONENTS OF THE WORK SECURELY IN PLACE, WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT. USE FASTENERS, SOLDER, WELDING RODS, PROTECTIVE COATINGS, SEPARATORS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED TO COMPLETE SHEET METAL FLASHING AND TRIM SYSTEM.
    - i. TORCH CUTTING OF SHEET METAL FLASHING AND TRIM IS NOT PERMITTED.
  - 2. METAL PROTECTION: WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY FABRICATOR OR MANUFACTURERS OF DISSIMILAR METALS.
  - 3. INSTALL EXPOSED SHEET METAL FLASHING AND TRIM WITHOUT EXCESSIVE OIL CANNING, BUCKLING, AND TOOL MARKS.
  - 4. INSTALL SHEET METAL FLASHING AND TRIM TRUE TO LINE AND LEVELS INDICATED. PROVIDE UNIFORM, NEAT SEAMS WITH MINIMUM EXPOSURE OF SOLDER, WELDS, AND ELASTOMERIC SEALANT.
  - 5. INSTALL SHEET METAL FLASHING AND TRIM TO FIT SUBSTRATES AND TO RESULT IN WATERTIGHT PERFORMANCE. VERIFY SHAPES AND DIMENSIONS OF SURFACES TO BE COVERED BEFORE FABRICATING SHEET METAL.
  - 6. SPACE CLEATS NOT MORE THAN 12 INCHES APART. ANCHOR EACH CLEAT WITH TWO FASTENERS. BEND TABS OVER FASTENERS.
  - 7. EXPANSION PROVISIONS: PROVIDE FOR THERMAL EXPANSION OF EXPOSED FLASHING AND TRIM. SPACE MOVEMENT JOINTS AT A MAXIMUM OF 10 FEET WITH NO JOINTS ALLOWED WITHIN 24 INCHES OF CORNER OR INTERSECTION. WHERE LAPPED OR BAYONET-TYPE EXPANSION PROVISIONS CANNOT BE USED OR WOULD NOT BE SUFFICIENTLY WATERTIGHT, FORM EXPANSION JOINTS OF INTERMESHING HOOKED FLANGES, NOT LESS THAN 1 INCH DEEP, FILLED WITH ELASTOMERIC SEALANT CONCEALED WITHIN JOINTS.
  - 8. FASTENERS: USE FASTENERS OF SIZES THAT WILL PENETRATE SUBSTRATE NOT LESS THAN 1-1/4 INCHES FOR NAILS AND NOT LESS THAN 3/4 INCH FOR WOOD SCREWS.
    - i. GALVANIZED OR PREPAINTED, METALLIC-COATED STEEL: USE STAINLESS-STEEL FASTENERS.
    - ii. ALUMINUM: USE ALUMINUM OR STAINLESS-STEEL FASTENERS.
    - iii. STAINLESS STEEL: USE STAINLESS-STEEL FASTENERS.
  - 9. SEAL JOINTS WITH ELASTOMERIC SEALANT AS REQUIRED FOR WATERTIGHT CONSTRUCTION.

J. INSTALLATION - GUTTERS AND DOWNSPOUTS

- 1. BUILT-IN GUTTERS: JOIN SECTIONS WITH LAPPED JOINTS SEALED WITH ELASTOMERIC SEALANT. PROVIDE FOR THERMAL EXPANSION. SLOPE TO DOWNSPOUTS. PROVIDE END CLOSURES AND SEAL WATERTIGHT WITH SEALANT.
  - i. INSTALL FELT UNDERLAYMENT LAYER IN BUILT-IN GUTTER TROUGH AND EXTEND TO DRIP EDGE AT EAVES AND UNDER FELT UNDERLAYMENT ON ROOF SHEATHING. LAP SIDES A MINIMUM OF 2 INCHES OVER UNDERLYING COURSE. LAP ENDS A MINIMUM OF 4 INCHES. STAGGER END LAPS BETWEEN SUCCEEDING COURSES AT LEAST 72 INCHES. FASTEN WITH ROOFING NAILS. INSTALL SLIP SHEET OVER FELT UNDERLAYMENT.
- 2. DOWNSPOUTS: JOIN SECTIONS WITH 1-1/2-INCH TELESCOPING JOINTS. PROVIDE FASTENERS DESIGNED TO HOLD DOWNSPOUTS SECURELY 1 INCH AWAY FROM WALLS; LOCATE FASTENERS AT TOP AND BOTTOM AND AT APPROXIMATELY 60 INCHES O.C. IN BETWEEN.

079000 JOINT PROTECTION

- A. SUBMIT PRODUCT DATA FOR EACH PRODUCT USED.
- B. SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT.
  - 1. PRODUCT: PECORA CORPORATION; 890FTS OR APPROVED EQUAL.
  - 2. APPLICATIONS: FLASHINGS.
- C. SINGLE-COMPONENT, NONSAG, URETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 25, FOR USE NT.
  - 1. PRODUCTS: PECORA CORPORATION; DYNATROL I-XL OR APPROVED EQUAL.
  - 2. APPLICATIONS: MASONRY JOINTS (EXTERIOR).
- D. PROVIDE SEALANT JOINT BACKING OF MATERIALS THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLER; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
  - 1. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
  - 2. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

DIVISION 09 - FINISHES

099000 PAINTING AND COATING

- A. SUBMIT PRODUCT DATA FOR FINISHING PRODUCTS.
- B. DO NOT APPLY MATERIALS WHEN SURFACE AND AMBIENT TEMPERATURES ARE OUTSIDE TEMPERATURE RANGES REQUIRED BY PAINT PRODUCT MANUFACTURER.
- C. DO NOT APPLY EXTERIOR COATINGS DURING RAIN OR SNOW WHEN RELATIVE HUMIDITY IS OUTSIDE HUMIDITY RANGES, OR MOISTURE CONTENT OF SURFACES EXCEEDS THOSE REQUIRED BY PAINT PRODUCT MANUFACTURER.
- D. FURNISH FIVE YEAR MANUFACTURER WARRANTY FOR PAINTS AND COATINGS.
- E. EXTRA MATERIALS: SUPPLY 1 GALLONS OF EACH COLOR AND TYPE, STORE WHERE DIRECTED BY OWNER.
- F. EXISTING WORK: EXTEND EXISTING PAINT AND COATINGS INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS AND AS SPECIFIED.
- G. PREPARATION:
  - 1. GALVANIZED SURFACES: REMOVE SURFACE CONTAMINATION AND OILS AND WASH WITH SOLVENT. APPLY COAT OF ETCHING PRIMER.
  - 2. UNCOATED STEEL AND IRON SURFACES: REMOVE GREASE, MILL SCALE, WELD SPLATTER, DIRT, AND RUST. WHERE HEAVY COATINGS OF SCALE ARE EVIDENT, REMOVE BY WIRE BRUSHING OR SANDBLASTING; CLEAN BY WASHING WITH SOLVENT. APPLY TREATMENT OF PHOSPHORIC ACID SOLUTION, ENSURING WELD JOINTS, BOLTS, AND NUTS ARE SIMILARLY CLEANED. SPOT PRIME PAINT AFTER REPAIRS.
  - 3. SHOP PRIMED STEEL SURFACES: SAND AND SCRAPE TO REMOVE LOOSE PRIMER AND RUST. FEATHER EDGES TO MAKE TOUCH-UP PATCHES INCONSPICUOUS. CLEAN SURFACES WITH SOLVENT. PRIME BARE STEEL SURFACES.
- H. PAINTING SCHEDULE:
  - 1. STEEL - UNPRIMED:
    - i. ONE COAT OF ALKYD PRIMER.
    - ii. TWO COATS OF ALKYD ENAMEL, SEMI-GLOSS.
  - 2. STEEL - SHOP PRIMED:
    - i. TOUCH-UP WITH ZINC CHROMATE OR ZINC RICH PRIMER.
    - ii. TWO COATS OF ALKYD ENAMEL, SEMI-GLOSS.
  - 3. STEEL - GALVANIZED:
    - i. ONE COAT CEMENTATIOUS PRIMER.
    - ii. TWO COATS OF ALKYD ENAMEL, SEMI-GLOSS.

- I. FINISH COATS PRODUCT; BENJAMIN MOORE SUPER SPEC DTM ALKYD SEMIGLOSS ENAMEL Z24 OR APPROVED EQUAL.

J. COLOR SCHEDULE

- 1. EXPOSED STEEL COLUMNS: COLOR TO MATCH EXISTING EXTERIOR STEEL DOORS.
- 2. NEW CANOPY CEILING/STEEL DECK: WHITE TO MATCH EXISTING DROP OFF CEILING.
- 3. BOLLARDS: COLOR TO MATCH EXISTING BOLLARDS.

DIVISION 10 - SPECIALTIES

101400 SIGNAGE

- A. RELOCATE EXISTING BUILDING SIGNAGE AS SHOWN ON THE DRAWINGS.

DIVISION 21 - FIRE SUPPRESSION

- A. FIRE SUPPRESSION SHALL COMPLY WITH NFPA 13, NFPA 5000, AND ANY APPLICABLE LOCAL CODES OR REQUIREMENTS.
- B. INFORMATION REGARDING THE EXISTING FIRE PROTECTION SYSTEM IS AVAILABLE ON THE AMERICAN FIRE SPRINKLERS, INC. DRAWING.
- C. SUBMITTALS
  - 1. PROVIDE EQUIPMENT SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS, INCLUDING:
    - iii. NEW SPRINKLERS.
    - ii. NEW PIPES.
    - iii. VALVES.
    - iv. FITTINGS AND CONNECTIONS.
  - 2. SUBMIT COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATES.
  - 3. ALL SUBMITTALS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER OR THEIR DESIGNEE.
- D. PROVIDE NEW SPRINKLER HEADS WHERE INDICATED ON DRAWINGS.
- E. THE AREA IN WHICH NEW SPRINKLERS WILL BE INSTALLED SHOULD BE THE SAME AS THE ADJACENT EXISTING CANOPY - ORDINARY HAZARD II. VERIFY HAZARD PRIOR TO CONSTRUCTION.
- F. PROVIDE SPRINKLERS THAT ARE SIMILAR TO EXISTING BUILDING SPRINKLERS LOCATED IN ORDINARY HAZARD II AREAS AS FOLLOWS:
  - 1. PROVIDE SPRINKLERS TO MEET 0.19 GPM/SF DENSITY, MINIMUM.
  - 2. PROVIDE SPRINKLERS WITH APPROPRIATE K FACTOR AS REQUIRED BY NFPA 13, TABLE 6.2.3.1.
- G. PROVIDE NEW FIRE SPRINKLER SYSTEM PIPING THAT IS OF SIMILAR MATERIAL AND SCHEDULE AS EXISTING PIPING, INCLUDING APPROXIMATELY 8 FEET OF 4-INCH, SCHEDULE 40 PIPE, A 4-INCH LARGE RADIUS ELBOW, APPROXIMATELY 8 FEET OF 1 1/2-INCH SCHEDULE 40 PIPE APPROXIMATELY 24 FEET OF 1 1/4-INCH SCHEDULE 40 PIPE.
- H. COMPLETE ALL SYSTEM APPROVAL AND ACCEPTANCE IN ACCORDANCE WITH NFPA 13, CHAPTER 25, INCLUDING:
  - 1. NOTIFY THE AUTHORITY HAVING JURISDICTION AND THE PROPERTY OWNER OR THE PROPERTY OWNER'S AUTHORIZED REPRESENTATIVE OF THE TIME AND DATE TESTING WILL BE PERFORMED.
  - 2. PERFORM ALL REQUIRED ACCEPTANCE TESTS, INCLUDING:
    - i. HYDROSTATIC TEST THE ENTIRE FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH NFPA 13, 25.2.1, NFPA 5000, THE IPC, AND ANY APPLICABLE LOCAL CODES OR REQUIREMENTS.
  - 3. COMPLETE AND SIGN THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES IN ACCORDANCE WITH NFPA 13, FIGURE 25.1.
  - 4. REMOVAL ALL CAPS AND STRAPS PRIOR OT PLACING THE SPRINKLER SYSTEM IN SERVICE.
  - 5. COMPLETE ALL SYSTEM OPERATIONAL TESTS IN ACCORDANCE WITH NFPA 13, 25.2.3, INCLUDING:
  - 6. FLOW TEST WATERFLOW DETECTING DEVICES INCLUDING THE ASSOCIATED ALARM CIRCUITS IN ACCORDANCE WITH NFPA 13, 25.2.3.1.
  - 7. OBTAIN FIRE MARSHAL APPROVAL FOR THE ENTIRE FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH NFPA 13, NFPA 5000, THE IPC, AND LOCAL CODES OR REQUIREMENTS.

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091

REGISTERED PROFESSIONAL  
STRUCTURAL ENGINEER  
NO. 11722  
EXPIRES 6/30/15

METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
ARCHITECTURAL NOTES

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

DESIGNED BY: ELP	DATE	DESCRIPTION	CHECKED BY: PEK
DRAWN BY: JM			

1 INCH  
DRAWING NO.:  
**G-6**  
SHEET 6 OF 15

PROJECT NO.:  
CD1310

**DIVISION 26 - ELECTRICAL**

- A. SUBMIT PRODUCT DATA FOR DUPLEX OUTLETS AND LIGHT FIXTURES.
- B. ALL ELECTRICAL OUTLETS, SWITCHES, FACEPLATE & DEVICES SHALL BE COMMERCIAL GRADE.
- C. COORDINATE WITH ALL OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT PRIOR TO ROUGH-IN. AVOID CONFLICTS WITH CASEWORK, COUNTERS, EQUIPMENT, STRUCTURAL MEMBERS, AND REFER TO DRAWINGS OF OTHER TRADES.
- D. PREVENT DAMAGE TO ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED BY DIVISION 26 FROM OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. DAMAGED EQUIPMENT OR EQUIPMENT THAT DOES NOT APPEAR IN NEW CONDITION WILL BE CONSIDERED DEFECTIVE.
- E. SCHEDULE THE TIME AND DURATION OF ALL OUTAGES IN OCCUPIED PORTIONS OF THE BUILDING WITH OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK. THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES RESULTING FROM UNSCHEDULED OUTAGES OR FROM THOSE NOT CONFINED TO THE PRE-APPROVED TIMES. ALL COSTS FOR OVERTIME LABOR AS NECESSARY TO MAINTAIN ELECTRICAL SERVICES SHALL BE INCLUDED IN THE INITIAL BID. REMOVE TEMPORARY WIRING AND FACILITIES, WHEN USED, AND LEAVE THE SITE CLEAN BEFORE FINAL ACCEPTANCE.
- F. PROPERLY AND ADEQUATELY SUPPORT ALL ELECTRICAL EQUIPMENT, FIXTURES, PANELS, OUTLETS, ETC. SUPPORTS SHALL PROVIDE PROPER ALIGNMENT AND LEVELING OF FIXTURES AND EQUIPMENT. EACH FASTENING DEVICE AND SUPPORT SHALL BE CAPABLE OF SUPPORTING NOT LESS THAN FOUR (4) TIMES THE WEIGHT OF THE OBJECT OR OBJECTS FASTENED TO OR SUSPENDED FROM THE BUILDING STRUCTURE.
- G. ALL NEW MATERIALS SHALL BE HIGH QUALITY AND MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, U.L. OR OTHER APPLICABLE STANDARDS. REFERENCES TO MANUFACTURER'S NAMES, MODELS AND NUMBERS ARE LISTED TO DEFINE THE PRODUCT'S STYLE, QUALITY AND APPEARANCE. PROPOSED SUBSTITUTIONS WILL REQUIRE PRE-BID WRITTEN APPROVAL OF THE ARCHITECT.
- H. WIRING DEVICES SHALL BE SPECIFICATION GRADE, FINISH SHALL BE AS SELECTED BY THE ARCHITECT. COMPARABLE GRADE DEVICES AND PLATES TO THOSE LISTED MANUFACTURED BY HUBBELL, ARROW-HART, PASS & SEYMOUR, BRYANT, AND LEVITON ARE APPROVED. DUPLEX RECEPTACLES, 20A, 120V, 3W, 2P GROUNDING, HUBBELL 5252 SERIES. FLUSH WALL PLATES, FINISH TO MATCH EXISTING.
- I. LABEL ALL ELECTRICAL DEVICES WITH EQUIPMENT NAME, POWER PANEL SERVED FROM AND CIRCUIT NUMBERS.
- J. REMOVE ALL DIRT, DEBRIS, GARBAGE, TOOLS, CONDUIT AND WIRE SCRAPS, SPARE EQUIPMENT AND MATERIALS USED DURING CONSTRUCTION BY DIVISION 26. ALL COMPONENTS SHALL BE FREE OF DUST, DIRT AND FOREIGN OBJECTS, AND IN NEW CONDITION BEFORE FINAL ACCEPTANCE OF WORK.
- K. PROVIDE OWNER WITH A WRITTEN GUARANTEE, EFFECTIVE FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, COVERING ALL DEFECTS IN CONTRACTOR WORKMANSHIP AND FURNISHED MATERIALS. THE CONTRACTOR SHALL AGREE TO FIX ANY DEFECT BY REPLACEMENT OF DEFECTIVE PART WITHOUT ADDITIONAL COST TO OWNER DURING THE PERIOD OF GUARANTEE.
- L. CUTTING, PATCHING AND RESTORATION OF FINISHES REQUIRED FOR THIS WORK SHALL BE INCLUDED IN THE INITIAL BID. NEATLY PATCH ALL SURFACES DAMAGED BY THIS WORK AND FINISH TO MATCH THE ADJACENT CONSTRUCTION, INCLUDING PAINT OR OTHER FINISHES. AREAS AROUND CONDUITS PASSING BETWEEN FLOORS AND WALLS SHALL BE NEATLY PATCHED AS WELL. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT. WHERE CONDUITS ARE INSTALLED IN SLEEVES OR BLOCK-OUTS PENETRATING MOISTURE BARRIERS, THE SPACES AROUND THE CONDUITS SHALL BE PACKED AND SEALED TO PREVENT ENTRANCE OF MOISTURE.
- M. PROVIDE DUPLEX EXTERIOR GFCI RECEPTACLE WITH WEATHER-PROOF COVER AS REQUIRED WHERE INDICATED ON PLANS.
- N. PROVIDE PENDANT MOUNTED CEILING FIXTURES, 1X4 2-TUBE FLUORESCENT WRAPAROUND FIXTURE WITH ELECTRONIC BALLAST, AT NEW CANOPY AND EXISTING DROP OFF. MOUNT AT +15' AFF. PRODUCT: LITHONIA LIGHTING DMW-2-32-MVOLT-GEB10IS OR APPROVED EQUAL.
- O. PROVIDE RIGID METAL CONDUIT (RMC) FOR ALL NEW EXTERIOR DUPLEX CIRCUITS IN CANOPY AREA AND SECURE TO MASONRY COLUMN USING STAINLESS UNISTRUT OR A SIMILAR APPROVED SUPPORT SYSTEM.

**DIVISION 31 - EARTHWORK**

- 31 20 00 - EARTHWORK
- A. PERFORM WORK IN ACCORDANCE WITH OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (2008).
  - B. GRADE TO ELEVATIONS SHOWN ON THE DRAWINGS.
  - C. TOPSOIL TO BE RE-USABLE EXCAVATED OR IMPORTED FRIABLE LOAM FREE OF SUBSOIL, ROOTS, GRASS, WEEDS, LARGE STONE AND FOREIGN MATTER.
  - D. SUBSOIL TO BE RE-USABLE OR IMPORTED EXCAVATED MATERIAL, GRADED FREE OF LUMPS LARGER THAN 6 INCHES, ROCKS LARGER THAN 3 INCHES, ORGANIC MATERIAL, AND DEBRIS.

- 31 05 16 - AGGREGATES
- A. PERFORM TESTING AND ANALYSIS IN CONFORMANCE WITH ASTM D698.
  - B. SUBGRADE TO BE ¾" 0 AGGREGATE BASE COURSE FREE OF CLAY, SHALE, AND ORGANIC MATTER.
  - C. SUBGRADE NOT TO BE PLACED IN LIFTS GREATER THAN 6".

**DIVISION 32 - EXTERIOR IMPROVEMENTS**

- 32 12 16 - ASPHALT SURFACING
- A. PERFORM WORK IN ACCORDANCE WITH OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (2008).
  - B. PLACE ASPHALT TO ACHIEVE GRADING AS SHOWN ON THE DRAWINGS.
  - C. REMOVE ANY CRACKED OR DEGRADED ASPHALT PRIOR TO LAYING NEW ASPHALT.
  - D. ASPHALT TO BE LEVEL 3 MHMAC AS DEFINED IN THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
  - E. SAWCUT EXISTING ASPHALT AT LIMITS OF NEW ASPHALT. CONSTRUCT BUTT JOINT WITH NEW AND EXISTING ASPHALT.
  - F. CONSTRUCT NEW ASPHALT IN MINIMUM 1" LIFT.
  - G. ACCEPTANCE OF ASPHALT WILL BY VISUAL INSPECTION PERFORMED BY ARCHITECT/ENGINEER. CORRECT ALL DEFECTS, IF ANY, AS DIRECTED BY ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO OWNER.

- 32 13 13 - CONCRETE PAVING
- A. PERFORM WORK IN ACCORDANCE WITH ACI 301, ACI 304, AASHTO M324, ASTM C33 AND OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (2008).
  - B. SUBMIT CONCRETE MIX DESIGN DATA.
  - C. CONSTRUCT JOINTS AT 3 FOOT INTERVALS AND BETWEEN SIDEWALK AND CURB. ALIGN SIDEWALK AND CURB JOINTS.
  - D. MATCH NEW CONCRETE SIDEWALK ELEVATION TO EXISTING CURB ELEVATION.
  - E. PROVIDE LIGHT BROOM FINISH FOR CONCRETE SIDEWALK.
  - F. IMMEDIATELY AFTER PLACEMENT, PROTECT FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.

- 32 17 23 - PAVEMENT MARKINGS
- A. INSTALL MARKINGS AS SHOWN ON PLANS USING TYPE B-HS OR TYPE C-HS MARKING MATERIAL ONLY. COLOR: RED
  - B. TRANSVERSE JOINTS WILL BE ALLOWED WITH NO OVERLAP OR GAP ALLOWED AT THE JOINT.
  - C. MINIMUM INITIAL RETROFLECTIVITY SHALL BE 200 MCD/M2/LX.
  - D. APPLY ONE OF THE FOLLOWING MATERIAL TYPES:
    1. TYPE B-HS: PREFORMED, FUSED THERMOPLASTIC FILM HIGH SKID THAT HAS INTERMIXED REFLECTIVE ELEMENTS WITH FACTORY INSTALLED CRUSHED GLASS OR AGGREGATE ON THE SURFACE. REMOVE CONTAMINANTS FROM THE WEARING COURSE AND APPLY PAVEMENT MARKERS TO A CLEAN, DRY SURFACE. INSTALL PAVEMENT MARKER PER MANUFACTURER'S RECOMMENDATIONS.
    2. TYPE C-HS: COLD APPLIED PLASTIC FILM THAT HAS INTERMIXED REFLECTIVE ELEMENTS WITH FACTORY INSTALLED CRUSHED GLASS OR AGGREGATE ON THE SURFACE. ON ASPHALT, APPLY THE TAPE ON THE FRESH ASPHALT CONCRETE SURFACE PRIOR TO THE FINAL ROLLING OF THE MAT. ROLL THE TAPE INTO THE FRESH SURFACE DURING THE FINISH ROLLING OF THE MAT.



**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



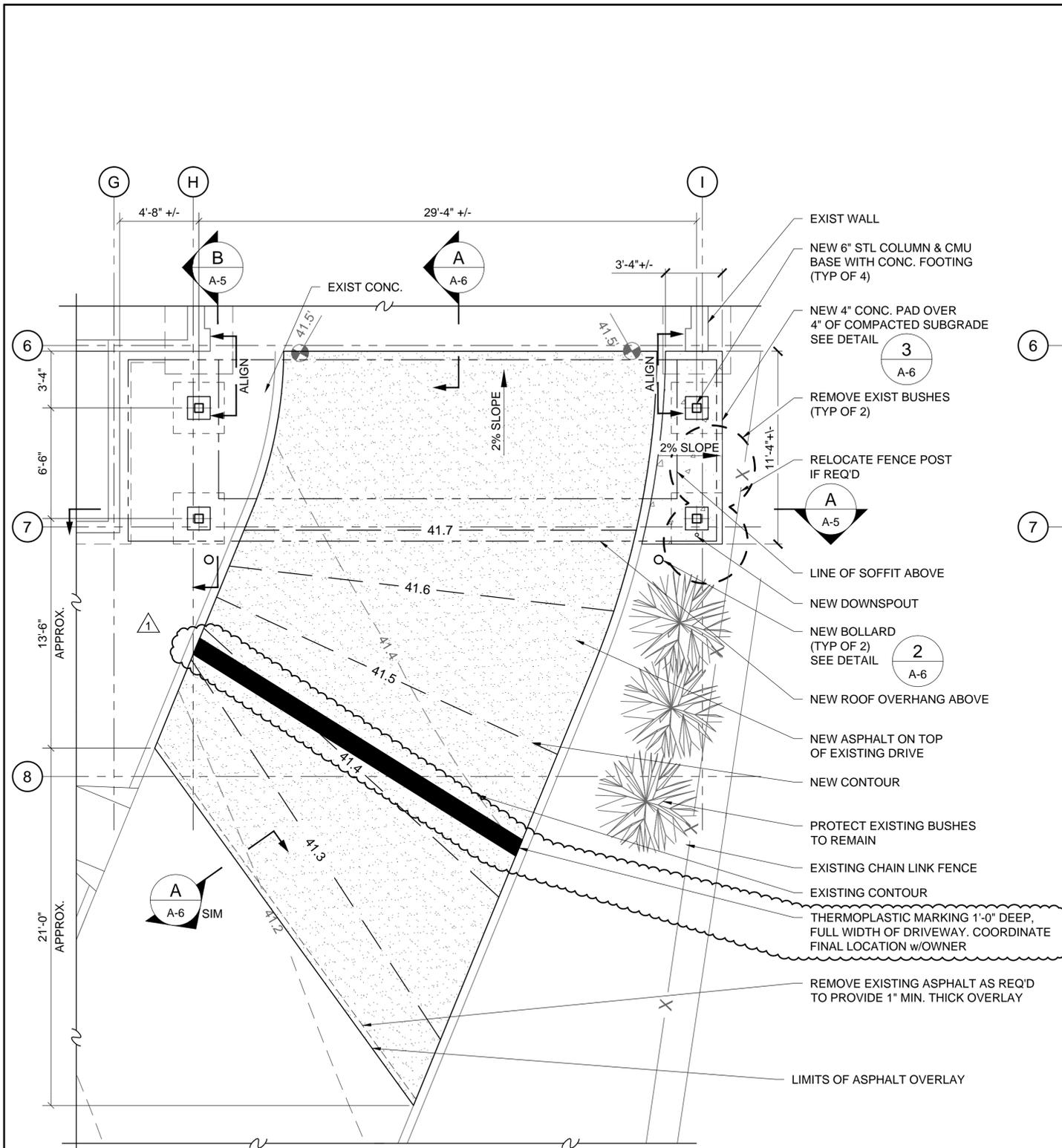
METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
ARCHITECTURAL NOTES

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

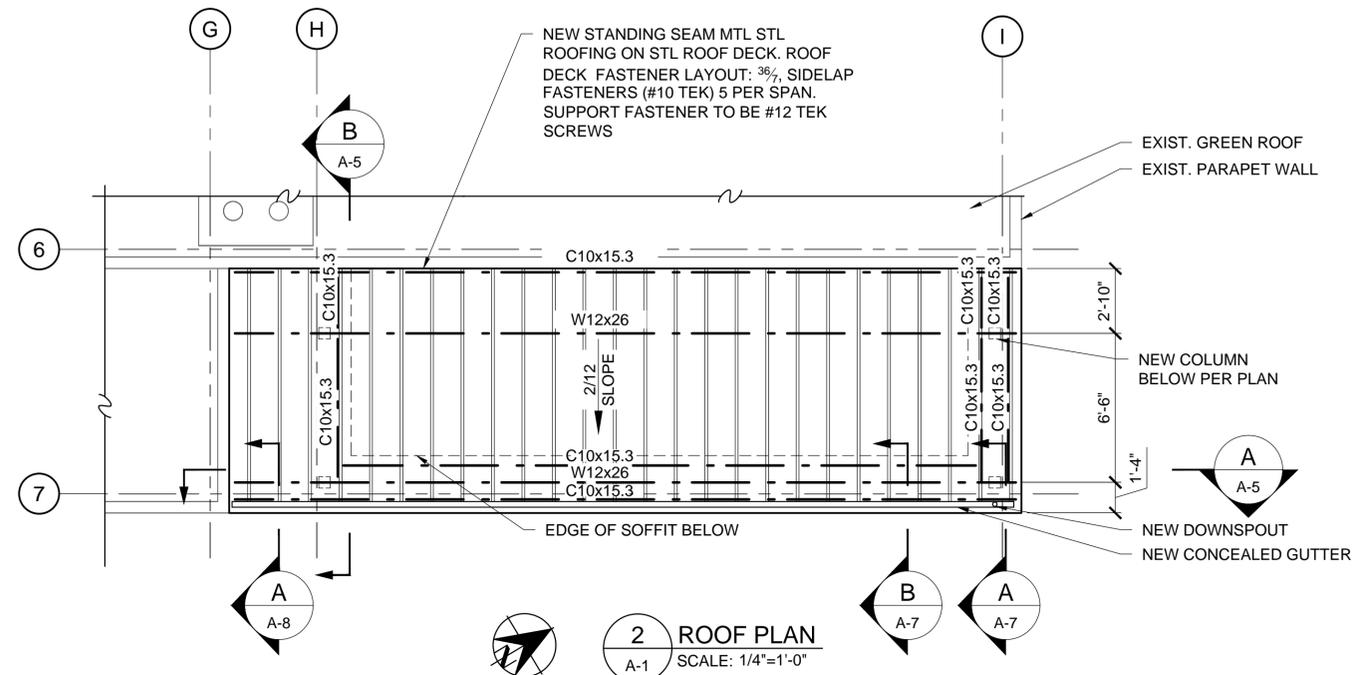
DESIGNED BY: ELP	DRAWN BY: JM	CHECKED BY: PEK
NO.	DATE	DESCRIPTION
1	8/26/13	ADDENDUM 1

1 INCH  
DRAWING NO.:  
**G-7**  
SHEET 7 OF 15

PROJECT NO.:  
CD1310



**2 FLOOR/FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**2 ROOF PLAN**  
SCALE: 1/4"=1'-0"

**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD-VERIFY CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK. VERIFY DIMENSIONS AND COMPATIBILITY OF PRODUCTS PRIOR TO ORDERING MATERIALS.
- PROVIDE ALL BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL AND ELECTRICAL EQUIPMENT.
- ALL NEW PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE CAULKED GASKETED WEATHERSTRIPPED OR SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
- COORDINATE AND PERFORM THE WORK IN A MANNER THAT DOES NOT IMPACT BUILDING OPERATIONS.
- BUILDING SAFETY & EGRESS: PROVIDE TEMPORARY BARRIERS AND OTHER MEANS AS NECESSARY TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS AND THE VISITING PUBLIC. DURING HOURS OF OCCUPANCY, ENSURE THAT AT LEAST TWO BUILDING EXITS ARE USEABLE FOR EGRESS AT ALL TIMES. AT THE END OF EACH WORK DAY/SHIFT, ENSURE THAT THE BUILDING IS SECURE.
- WORK TOLERANCES: LAYOUT THE WORK WITH 0.125" IN 8' OR BETTER OF TRUE SQUARE, PLUMB, LEVEL, AND TO OTHERWISE MATCH ADJACENT SURFACES FLUSH AND TIGHT SUCH THAT NEW AND EXISTING WORK APPEAR SEAMLESS AND FLAWLESS TO THE CASUAL OBSERVER. USE FULL LENGTH AND WIDTH MATERIALS WHERE FEASIBLE.
- PROTECTION: PROTECT SURROUNDING SURFACES, STRUCTURES, GROUNDS AND BUILDING CONTENTS FROM DAMAGE.
- WORK HOURS FOR HAZARDOUS WASTE COLLECTION ARE 9:00 AM TO 4:00 PM, MONDAY THROUGH SATURDAY. CONSTRUCTION MAY NOT INTERFERE OR RESTRICT THESE OPERATIONS.
- COMPLY WITH OSHA SAFETY REGULATIONS, ARCHITECTURAL BARRIERS ACT STANDARDS AND OTHER APPLICABLE CODES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- GENERAL: PROVIDE ALL MATERIALS AND PRODUCTS NECESSARY TO RESULT IN A 100% USEABLE FACILITY WHETHER INDICATED OR NOT.
- EXISTING GREEN ROOF SHALL BE PROTECTED AND REMAIN UNDISTURBED DURING CONSTRUCTION PERIOD. SHOULD THE GREEN ROOF BE DISTURBED, IT SHALL BE REPAIRED AND RETURNED TO ITS ORIGINAL CONDITION TO THE OWNER'S SATISFACTION.

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
FOUNDATION & ROOF PLANS

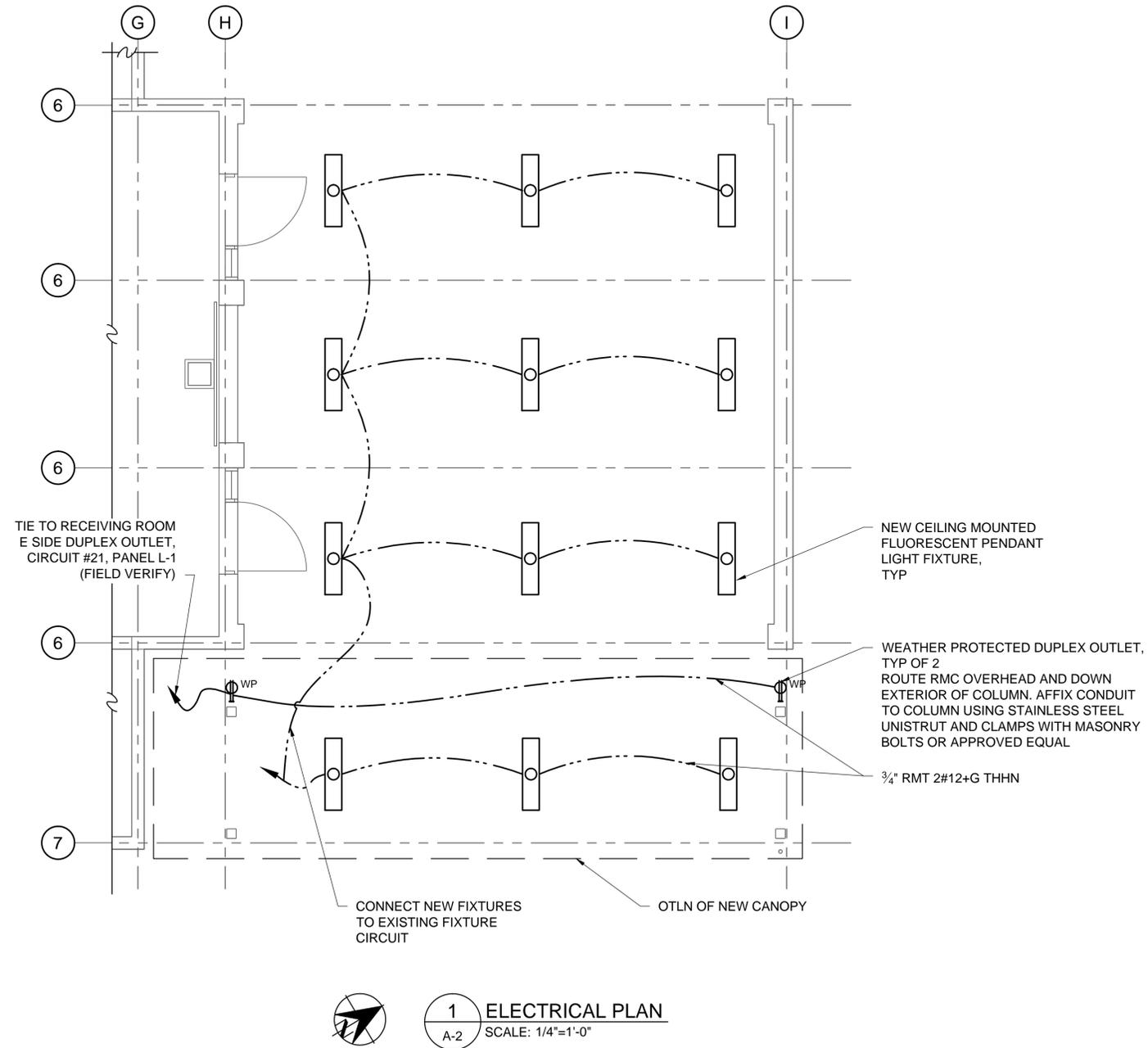
OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

DESIGNED BY: ELP	DRAWN BY: JM	CHECKED BY: PEK
NO.	DATE	BY
1	8/26/13	PEK
ADENDUM 1 DESCRIPTION		

1 INCH  
DRAWING NO.: A-1  
SHEET 8 OF 15

GENERAL NOTES

1. REMOVE EXISTING CEILING MTD. LIGHT FIXTURES IN DROP OFF AREA.



1 ELECTRICAL PLAN  
A-2 SCALE: 1/4"=1'-0"

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



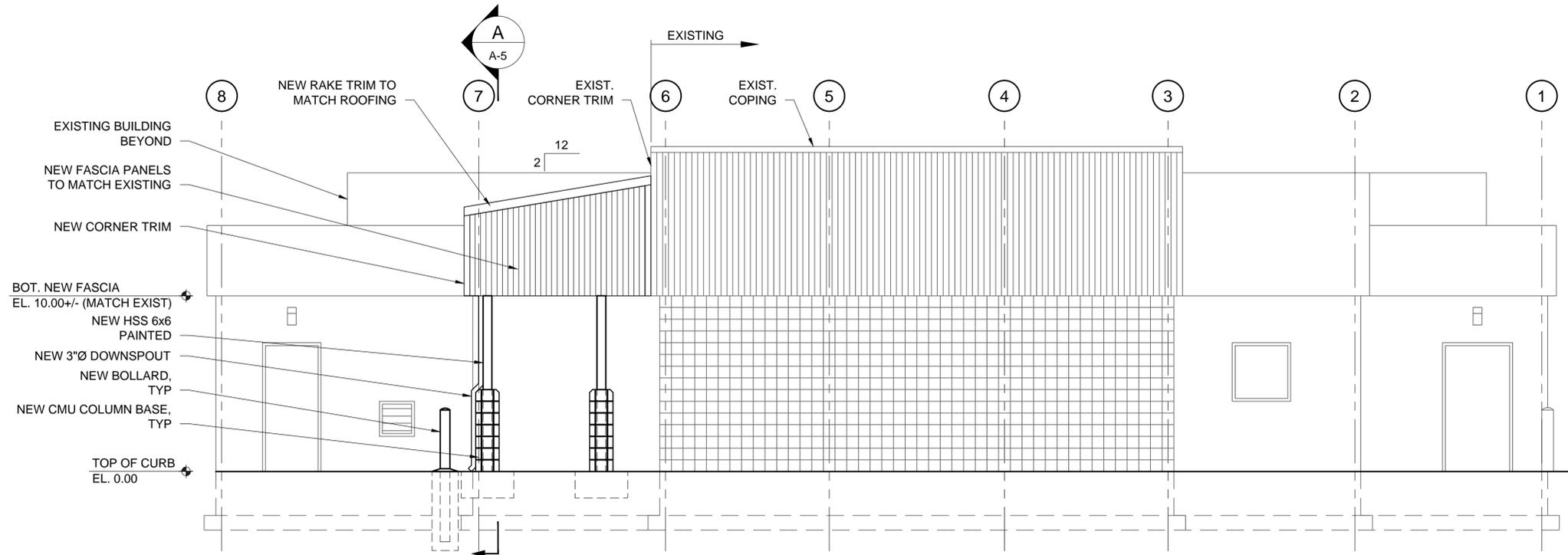
METRO CENTRAL HOUSEHOLD HAZARDOUS  
WASTE COLLECTION FACILITY  
CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
ELECTRICAL PLAN

OWNER  
METROPOLITAN SERVICE  
DISTRICT  
PORTLAND, OR

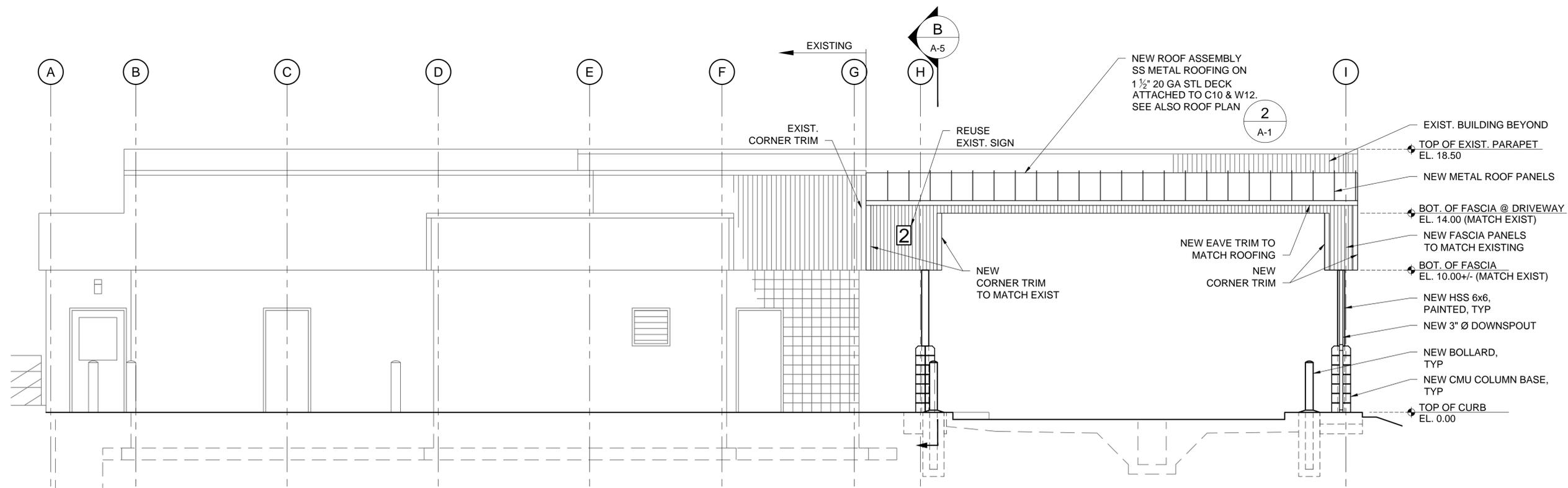
NO.	DATE	DESCRIPTION	BY

DESIGNED BY: ELP DRAWN BY: JM CHECKED BY: PEK  
1 INCH  
DRAWING NO.:  
**A-2**  
PROJECT NO.:  
CD1310  
SHEET 9 OF 15





**1 EAST ELEVATION**  
A-4 SCALE: 1/4"=1'-0"



**B SOUTH ELEVATION**  
A-4 SCALE: 1/4"=1'-0"

- GENERAL NOTES**
1. LINES OF EXISTING GRADES AS SHOWN ON ELEVATIONS AND SECTIONS ARE APPROXIMATE. THEY ARE ON BUILDING FACE OR ON SECTION END EXCEPT AS NOTED.
  2. PROVIDE SEALANT @ JOINTS BETWEEN NEW & EXISTING CORNER TRIM.

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



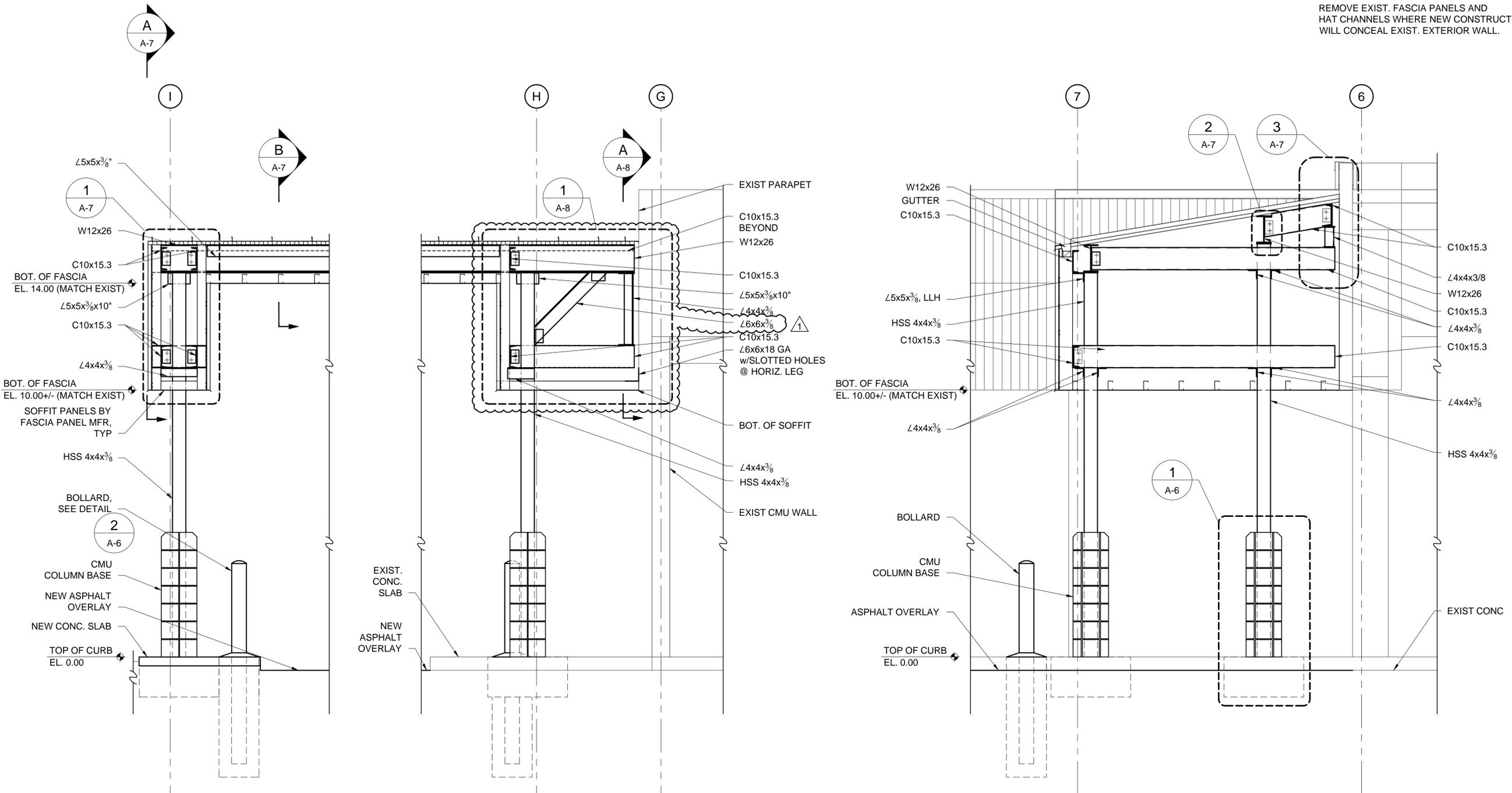
METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
EXTERIOR ELEVATIONS

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: ELP DRAWN BY: JM CHECKED BY: PEK  
1 INCH  
DRAWING NO.:  
**A-4**  
PROJECT NO.:  
CD1310  
SHEET 110F 15

NOTE:  
 REMOVE EXIST. FASCIA PANELS AND  
 HAT CHANNELS WHERE NEW CONSTRUCTION  
 WILL CONCEAL EXIST. EXTERIOR WALL.



**A** E/W BUILDING SECTION  
 LOOKING SOUTH  
 A-5 SCALE: 1/2"=1'-0"

**B** N/S BUILDING SECTION  
 LOOKING WEST  
 A-5 SCALE: 1/2"=1'-0"

**CASCADE DESIGN**  
 PROFESSIONALS  
 A Division of Cascade Design Engineers, Inc.  
 2780 SE Harrison St.  
 Suite 104  
 Milwaukie, OR 97222  
 Voice: 503-652-9090  
 Fax: 503-652-9091

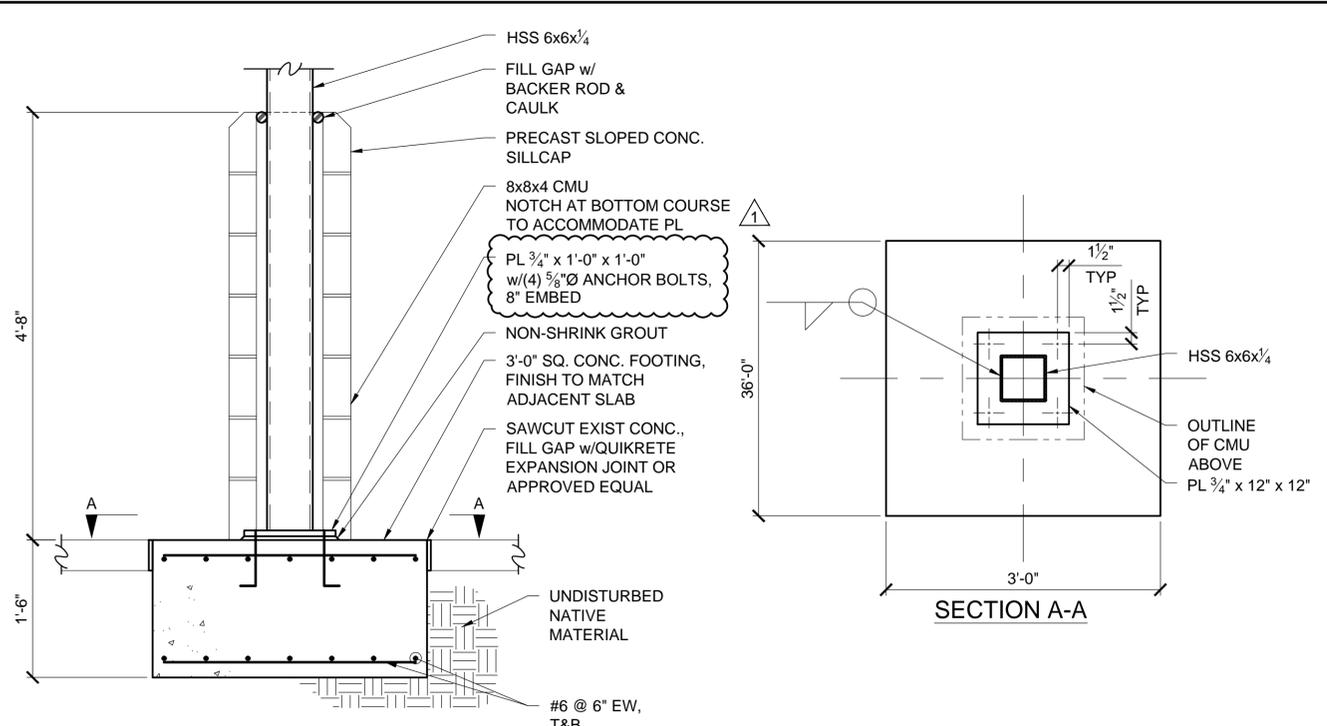


METRO CENTRAL HOUSEHOLD HAZARDOUS  
 WASTE COLLECTION FACILITY  
 CANOPY EXTENSION  
 8/1/13  
 CONSTRUCTION DOCUMENTS  
 SECTIONS

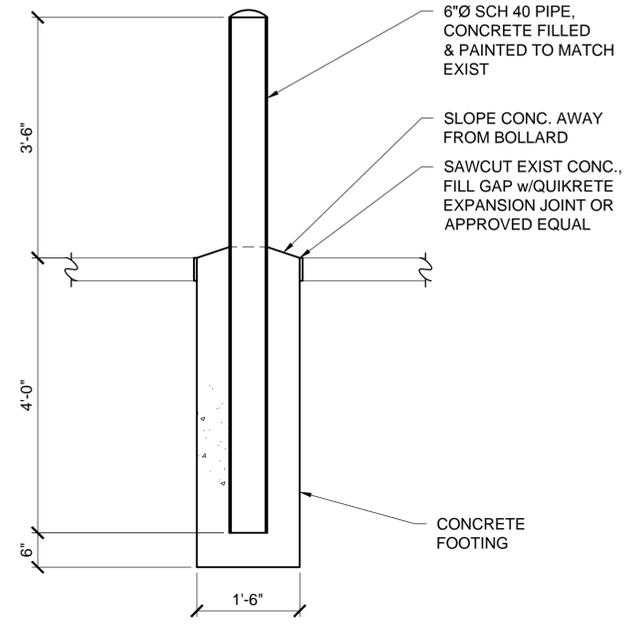
OWNER  
 METROPOLITAN SERVICE  
 DISTRICT  
 PORTLAND, OR

DESIGNED BY: ELP	DRAWN BY: JM	CHECKED BY: PEK
NO.	DATE	DESCRIPTION
1	8/26/13	ADDENDUM 1

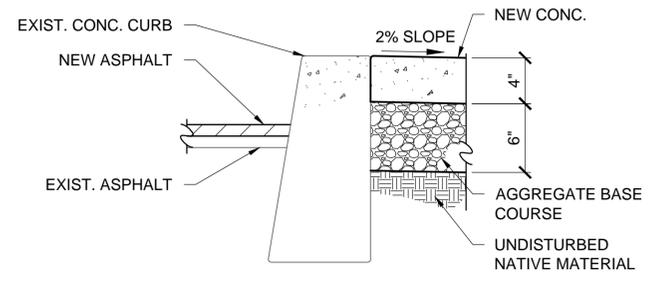
1 INCH  
 DRAWING NO.:  
**A-5**  
 SHEET 12 OF 15



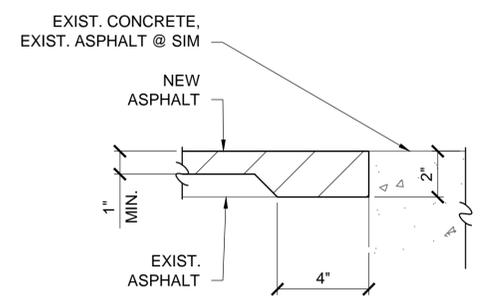
**1 COLUMN FOOTING**  
SCALE: 1" = 1'-0"



**2 BOLLARD DETAIL**  
SCALE: 1" = 1'-0"

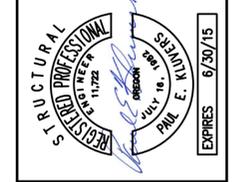


**3 CONCRETE PAD**  
SCALE: 1 1/2" = 1'-0"



**A ASPHALT OVERLAY**  
SCALE: 3" = 1'-0"

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091



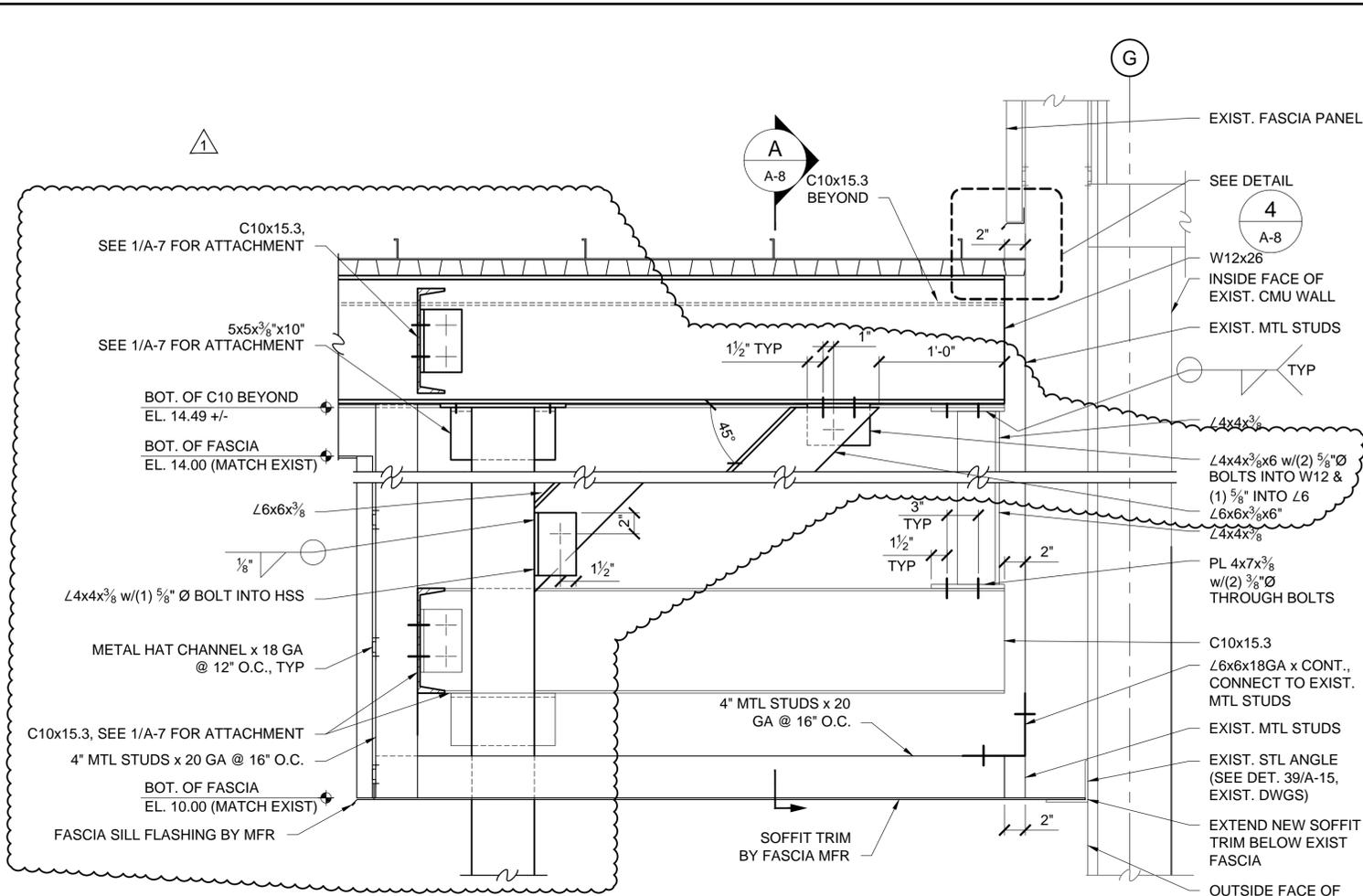
METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION  
8/1/13  
CONSTRUCTION DOCUMENTS  
SECTIONS & DETAILS

OWNER  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

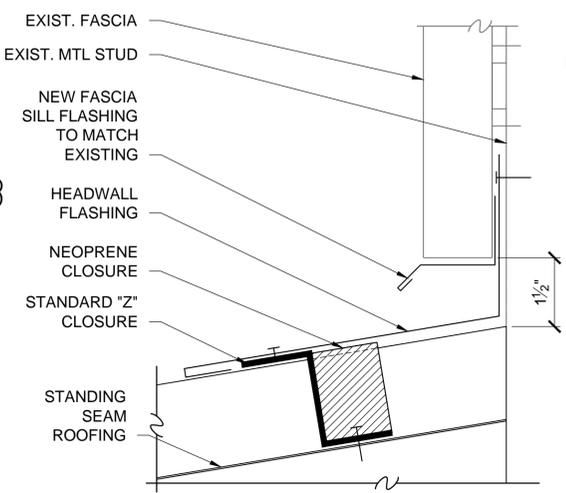
DESIGNED BY: ELP	DRAWN BY: JM	CHECKED BY: PEK
NO.	DATE	DESCRIPTION
1	8/26/13	ADDENDUM 1
PEK	BY	

PROJECT NO. CD1310  
DRAWING NO. **A-6**  
SHEET 130F 15

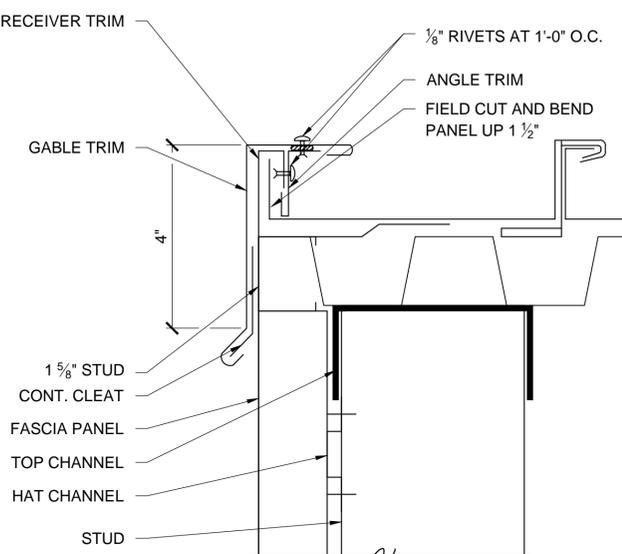




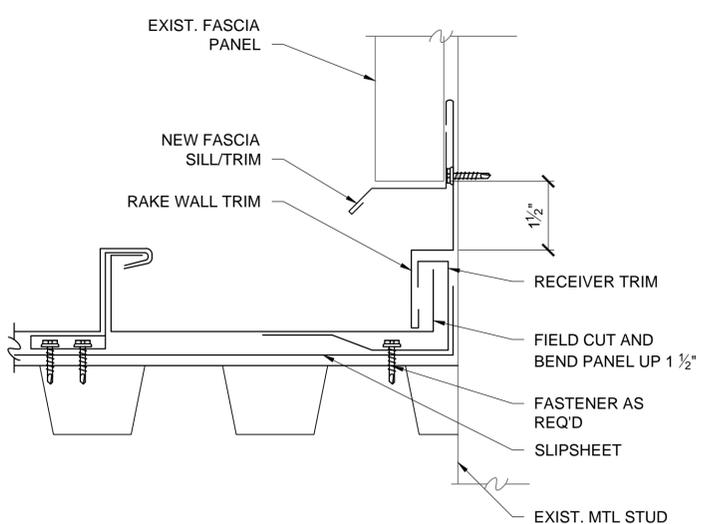
**1 FRAMING AT GRID G**  
A-8 SCALE: 1 1/2" = 1'-0"



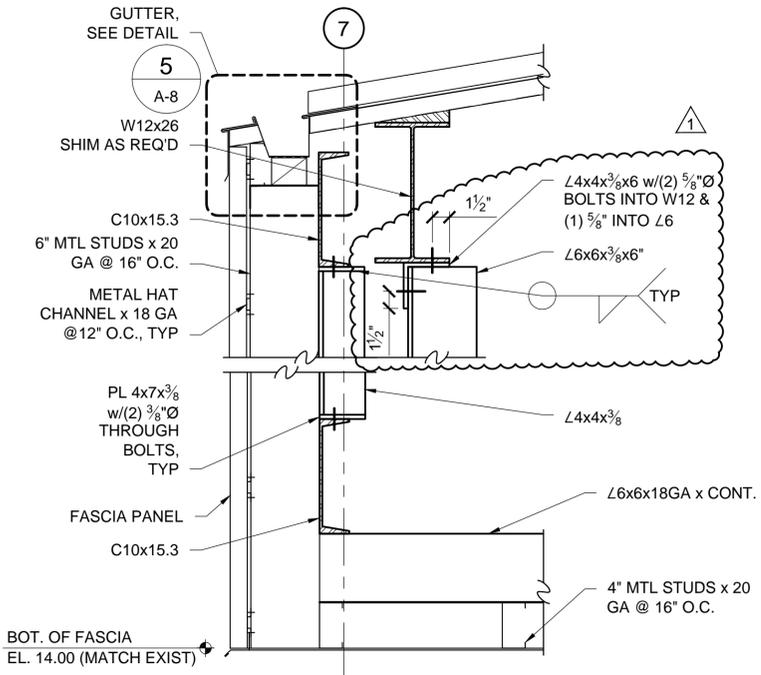
**2 FLASHING DETAIL**  
A-8 SCALE: 6" = 1'-0"



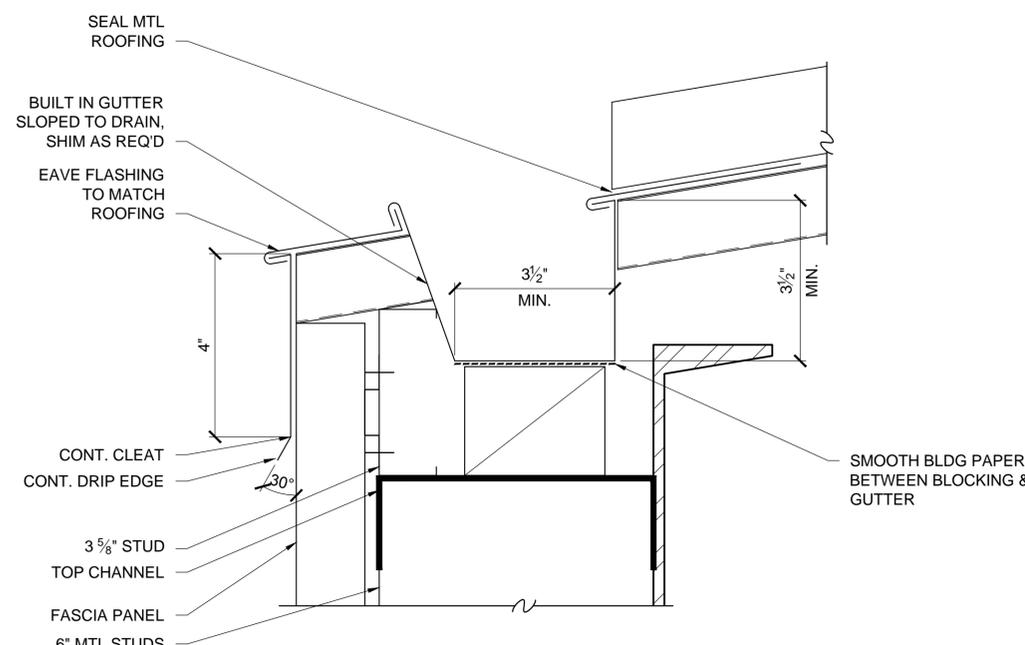
**3 FLASHING DETAIL**  
A-8 SCALE: 6" = 1'-0"



**4 RAKE WALL TRIM**  
A-8 SCALE: 6" = 1'-0"



**A FRAMING AT GRIDS G & 7**  
A-8 SCALE: 1 1/2" = 1'-0"



**3 GUTTER DETAIL**  
A-8 SCALE: 6" = 1'-0"

**CASCADE DESIGN**  
PROFESSIONALS  
A Division of Cooper Clark Engineers, Inc.  
2780 SE Harrison St.  
Suite 104  
Milwaukie, OR 97222  
Voice: 503-652-9090  
Fax: 503-652-9091

**REGISTERED PROFESSIONAL**  
STRUCTURAL ENGINEER  
JULY 19, 1998  
NO. 11722  
PAUL E. KILMER  
EXPIRES 6/30/15

**METRO CENTRAL HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY CANOPY EXTENSION**  
8/1/13  
CONSTRUCTION DOCUMENTS  
SECTIONS & DETAILS

**OWNER**  
METROPOLITAN SERVICE DISTRICT  
PORTLAND, OR

NO.	DATE	DESCRIPTION	PEK	BY
1	8/26/13	ADDENDUM 1		

DESIGNED BY: ELP DRAWN BY: JIM CHECKED BY: PEK

PROJECT NO.: CD1310  
DRAWING NO.: **A-8**  
SHEET 15 OF 15