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Checklist – Revised Feb 18, 2018
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# "smart" CHECK LIST©

Notes:

1. This document might be outdated. Check the header area for revision date. Please download the latest version at http://www.byunpartners.com/Documents/checklist.pdf
2. Please use this checklist to stimulate your thought. Add, delete, and revise as needed and submit to spec writer. By no means this check list has everything you need for your project. However, this check list should be completed prior to embarking on writing specification. Undoubtedly you will find items required for your project beyond this check list.
3. The specification describes in word "What" the product is. Drawings show "where" the product is used. Need to distinguish if the product has more than one variation. For example GL-1 and GL-2 for different types of glazing.
4. If the specification is to have any real value, project managers must have the opportunity to provide relevant project information to the specification writer.
5. Who should write the spec? If it is on consultants' drawings, consultants should write it. If it says "See Architectural" then architectural drawings should detail this up and I will further elaborate on spec.
6. Stop. Read the whole documents before filling in the blank spaces.
7. Put question marks for items that are pending or not sure.
8. Not all items are in this lists, feel free to add to your project.
9. Remember, we can't be aggressive if we are confused.
10. Sustainable Design: Product or product category with a symbol in front indicates it contributes to one or more LEED, HPI, or CHPS credit category.
11. Before returning completed form back the spec writer, first have it reviewed by the project Architect of Record.
12. Section number are identified with CSI 2004 Format first and 1995 in parenthesis. 024119 (01732).
13. Short spec: Not recommended. Write full specs to get the maximum protection.
14. "smart" because you can look up listed products directly from this document by hyperlink (internet connection required).
15. Feel free to make any suggestions you might have to make this checklist a better tool.
16. You may consider that I have missed more than a few elements which might constitute major or minor variable which you might include for your project.
17. This checklist is used for giving you an accurate spec fee proposal. Please be as complete as possible. More sections I need to write, higher the fee.
18. "People don't want to buy a quarter-inch drill, they want a quarter-inch hole". The checklist is a valuable listening tool for spec writer.
19. Spec writers are "generalist" (including me). We write 50 or more architectural sections per project and we can't know everything (including me). Don't be afraid to seek help from the specific manufacturer. They are the "specialist" in their products.
20. Do email manufacturer's CSI 3-part specs if you have them. But, first edit them.
    - Unless, you want me to pick options I like. (Not recommend). Same applies when you email me manuf cutsheets. Select all the options YOU like before emailing them to me.

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| **Project Name** | |
| **Project Number** | |

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| **Categories (random)** | A. Waterproofing |
| | B. Structural Consultant |
| | C. Roofing |
| | D. Roof Accessories/Skylights |
| | E. Exterior |

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|---|---|
| | F. Interior |
| | G. Ceiling - interior |
| | H. Walls - interior |
| | I. Floors - interior |
| | J. Tile |
| | K. Windows |
| | L. Doors |
| | M. Painting |
| | N. Stairs/Elevators |
| | O. Toilet Accessories |
| | P. Special Construction |
| | Q. Div 1 Sections |
| | R. Rehabilitation of Historic Buildings |
| | S. Manufacturer's Contact Information |

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**Project Summary**

| | |
|---|---|
| **Project Name** | |
| **Project Number** | |
| **Client Name** | |
| **PM/PA Name** | |
| **Scope of Work** (Text for Section 01100) | Short summary. Best to be generic. Not too detailed where it becomes scope of work issue where it contradict drawings. |
| **Construction Type** | ☐ Design – Bid – Build (traditional) ☐ Design – Build |
| **Contract Type** | ☐ Lease – Lease Back |
| **Header information** | |
| **Footer information** | Reserved for section number and title. (Recommend not changing the footer at all) |
| **Construction Administration** | ☐ by Architect ☐ by Construction Manager ☐ By Owner's rep. |
| **Submittal method during CA** | Electronic: ☐ Submittal Exchange ☐ Other_____<br>☐ Paper based. |
| **Architect of Record** | Name: |
| **CalGreen Code Applicable?** | ☐ Yes, follow this City code: _____<br>☐ No, because: _____ |
| **Client Standards** | ☐ Preferred products (Need a copy w/project specific markup. Better than using checklist) ☐ None. |
| **General Condition (GC)** | ☐ AIA A201 ☐ Custom by Owner/District<br>I need to see current (or at least previous project) GC to coordinate Div 1 sections. |
| **Master** | ☐ Use client's master (attached- electronic) ☐ AIA Masterspec (Default)<br>☐ SpecsIntact ☐ Other _____ |
| **Spec Format** | CSI 2004 format (6 digit section number). 49 divisions. – Default.<br>Please note that CSI 1995 format (5 digit section number). 16 divisions. – No longer supported (AIA MasterSpec no longer updated). |
| **Special Requirements** | ☐ USGBC - LEED, Level: _____<br>☐ CHPS ☐ DSA ☐ None<br>Email score card. |
| **Deferred Approvals** | ☐ Fire Sprinklers ☐ Elevator ☐ Other: _____ ☐ None |
| **Fire-Rated Assemblies** | Fire-rated construction for Elec, Mech, and Storage Rooms: ☐ Yes ☐ No<br>Fire-rated construction for Area Separations: ☐ Yes ☐ No<br>All gypsum board will be Type X 5/8 inch regardless of fire-ratings required. |
| **Building Type** | ☐ Type I ☐ Type 3 ☐ Type V ☐ Type VB ☐ Other: ___<br>☐ CMU ☐ Concrete |
| **Stud Framing** | ☐ Steel framing (sections 05400 & 09111)<br>☐ Wood framing (section 06100 by structural consultant) |
| **Building** | ☐ Single story ☐ Two stories ☐ [ ] stories |
| **Alternates (ALT)** | ☐ As indicated on Drawings ☐ None ☐ List:_____<br>Definition: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods specified. |
| **Allowances (ALLOW)** | ☐ As indicated on Drawings ☐ None ☐ List:_____<br>Types:<br>☐ Lump-sum allowances. You have to specify the dollar amount.<br>☐ Unit-cost allowances. (Also require unit price section)<br>☐ Quantity allowances. (Also require unit price section)<br>☐ Contingency allowances.<br>☐ Testing and inspecting allowances. |
| **Unit Price** | ☐ As indicated on Drawings ☐ None ☐ List:_____ |

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| | Definition: Unit price is a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased. |
| **Units of Measure** | ☐ Inch, Feet/Pounds only (default) ☐ Metric only ☐ Both |
| **Project Meeting Attendance by Architect** | Required number of meetings _____ (provide copy of language)<br>Scheduled visits required _____ (provide copy of language)<br>*Verify with Owner/Architect Contract |
| **Coordinate with Mechanical Consultant (for their energy calc)** | ☐ Fenestration: U-factor:_____ SHGC: _____<br>☐ Skylight: U-factor: _____ SHGC: _____<br>Insulation: (Identify on Drawings)<br>Roof ☐ R-30 ☐ Other: _____<br>Exterior Walls ☐ R-13 ☐ R-19 ☐ Other: _____ |
| **Project Team:**<br>NOTE: Signature page and routing of it is not part of fee. Route them internally. | List only consultant that will be providing CSI 3-part specs here:<br>☐ Civil: ☐ LEED: _____<br>☐ Landscape: ☐ CxA: _____<br>☐ Structural: ☐ Mechanical:<br>☐ Electrical: ☐ Plumbing:<br>Hardware: ☐ Allegion (IRCO) ☐ Assa Abloy ☐ AHC (John Elmore) for fee.<br>☐ In-House<br>☐ Communication: ☐ Audio Visual:<br>☐ Kitchen Equipment: ☐ See attached<br>Others: _____ |
| **Print Instructions** | ☐ Electronic (pdf, FTP) ☐ Print Double Sided (default) ☐ Print Single Sided |
| **Font Type/Size** | ☐ Times New Roman/11 pt. (default) ☐ Other: _____ |
| **Special Instructions** | |

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## DEMOLITION

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| **Demolition** | ☐ Partial interior demolition - Selective Demo 024119 (01732).<br>☐ Complete demolition of building - Building Demo 024116 (02221)<br>☐ Site demolition.<br>☐ Abatement contractor – Separate contract.<br>☐ Abatement is part of this contract – Show have Abatement report ready |

## WATERPROOFING

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| **Foundation Prep (Soils report should be reviewed for recommendations)** | Underslab Vapor Barrier – 033005 (07113):<br>Manufacturers: ☐ Stego 15 mil ☐ Perminator WR Meadow ☐ Other: _____<br>15 mil sheet, Class A (default): ☐ By Structural (default). ☐ By Architect<br>* ASTM E 1745 sets three performance classes for plastic water-vapor retarders: Classes A, B, and C. The maximum water-vapor Permeance value of 0.3 perms is the same for each class. Two durability tests differentiate each class. Class A sets the highest, and Class C the lowest, tensile strength and puncture-resistance requirements. Neither thickness nor type of plastic is governed by ASTM E 1745. |
| | Dampproofing - 071113 (07115): Fluid applied to footing etc.<br>☐ Sealmastic Type II Fibered by W.R. Meadows.<br>☐ Other: _____ |
| **Waterproofing - 071326 (07131) [Normally for below grade]** | Vertical Application:<br>☐ Self-adhering sheet waterproofing (Bituthene 3000 by Grace) with drainage mat and then back-fill.<br>☐ Blind-side - drainage mat and sheet waterproofing (Preprufe 160R HDPE by Grace).<br>Drainage Panel: ☐ Hydroduct 220 by Grace.<br>Perimeter Drain: ☐ Hydroduct Coil 600 by Grace. ☐ Plumbing pipe by civil. |
| | Horizontal Application:<br>☐ Between slabs: Sheet waterproofing. (Bituthene 3000 by Grace)<br>☐ Foundation below slab: Upside-down Preprufe 300 HDPE in water table. (3x $ Florprufe)<br>☐ Foundation below slab: Florprufe 120. (21 mil, more of vapor barrier). |

## JOINT SEALANTS

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| **Sealants** | ☐ Through-penetration firestop - 078413 (07841).<br>☐ Fire-resistive joints - 078446 (07841).<br>Standard - 079200 (07920).<br>Application: ☐ Interior ☐ Exterior<br>Substrates: ☐ Metal ☐ Wood ☐ Gypsum ☐ Other: _____ |

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## STRUCTURAL CONSULTANT (for his information)

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| **Concrete slab (floor)** | Cast-In-Place Concrete - 033000 (03300) |
| **Concrete formed (wall)** Cast-In-Place Concrete - 033000 (03300). | |

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| Structural Steel | ☐ Structural Steel - 051200 (05120) ☐ None. |
| Metal Deck 05310 | ☐ Standard type (by structural).<br>Architecturally Exposed - Decorative type by Epic:<br>☐ Epicore ER2RA, acoustical, NRC 0.95.<br>☐ Epicore 3.5A by Epic |
| Steel Framing | ☐ Exterior Cold-form - 054000 (05400) - by structural consultant<br>☐ Interior metal studs - 092216 (09111) ☐ None. |

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## ROOFING

**Huge Disclaimer: Roofing/Waterproofing Systems are specialized assemblies that are beyond my expertise. Please contact your favorite manufacturer and seek help with specs and drawing details. Do not design them in a vacuum (you will have change orders). Have the manufacturer's rep edit their standard spec for your project. I can't edit their spec (again, you will have change orders if you have me edit).**

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| **Roofing**<br>Fire: ☐ (UL Class A)<br>Wind: ☐ I-75<br>Factory Mutual (FM): ☐ | Slope Type: Low (flat) Roofs: Single-Ply<br>075419 (07540) Thermoplastic Membrane Roofing<br>☐ Sarnafil - default, ☐ Cool Zone by Duro-last ☐ Sure-Flex by Carlsle<br>Attach membrane:<br>☐ Adhesively (G410 Sarnafil)-feltback to densdeck (default) concrete, wood, metal deck.<br>☐ Mechanically (S327 Sarnafil) - with plates for wood or metal deck. |
| | Slope Type: Low (flat) Roofs: Built-up<br>☐ 075113 (07511) Built-Up Asphalt Roofing (GAF, Tremco)<br>Roof Deck (check Structural dwg.):<br>☐ Sloped to drain<br>☐ Not sloped (Need tapered insulation).<br>☐ 1/4 inch (default, per code) ☐ 1/2 inch.<br>Roof Deck Type: (Ask for taper board plan in advance from Sarnafil)<br>☐ Metal Deck ☐ Structural Concrete Deck ☐ Light Weight Concrete Deck<br>☐ Plywood Deck |
| | Slope Type: Sloped Roofs: Metal Roofing<br>Metal Roof Panels 074113 (07411) - (min 24 gage): ☐ metal soffit panels<br>Product selection depends on roof slope and substrate.<br>See AEP-Span literature for various slope recommendations.<br>Slope: ☐ 3:12 (watershed) ☐ 1:12 (watershed) ☐ 1/4:12 (watertight)<br>Type/Substrate: ☐ Architectural/Solid deck ☐ Structural/Open frame - capable of spanning between supports.<br>☐ 16" Select Seam Narrow Batten non-structural by AEP Span.<br>☐ 16-1/2" Craftsman Series non-structural by MBCI.<br>☐ 24" Snap-Seam structural batten by AEP Span. |
| | Slope Type: Sloped roofs: Asphalt Roofing<br>Asphalt Shingles 073113 (07311)<br>☐ Timberline Color Series by GAF.<br>☐ Landmark Shingles by CertainTeed.<br>Underlayment: Ice and Water Shield by Grace for critical areas. |
| | Slope Type: Sloped roofs: Clay Roof Tiles 073213 (07321)<br>Profile: ☐ Mission 2000 two-piece by Redland ☐ Other: _____<br>Underlayment: Ice and Water Shield by Grace for critical areas. |
| **Soffit** | ☐ As exposed ☐ Metal Panel ☐ Portland cement plaster ☐ None |
| **Ridge Vents** | ☐ Needed ☐ Not needed (no sloped roof) |
| **Integral Thermal Insulation w/ Roofing** | Indicate R value on Drawings. Roof: ☐ R-30 ☐ Other: R-<br>Insulation: ☐ Rigid type over metal deck (default, 5 to 6 inches.)<br>☐ Batt insulation from ceiling side (10 inches for R-30)<br>☐ Remodel - Use existing insulation. |
| **Building Insulation - 072100 (07210)**<br>Batt insulation thickness:<br>R-11, 13: 3-1/2 inch thick. | Indicate R value on ☐ Drawings (default) ☐ Specs (not recommended).<br>Batt insulation: ☐ Walls. ☐ Ceiling, attached to deck.<br>☐ Sound insulation (R-11). ☐ Sprayed-sound insulation (K-13), integral color.<br>Continuous insulation (rigid foam on exterior side): ☐ 2 inch ☐ _____ |

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| R-19: 6-1/4 inch thick.<br>R-30:10 inches. | Exterior Wall: ☐ R-19 ☐ Other: R- _____<br>Interior partitions: ☐ R-11 ☐ R-19 (for sound) ☐ Other: R-_____<br>Spray foam insulation: ☐ R-value of 6.75 per inch, ICYNENE MD-C-200.<br>Rigid Insulation: ☐ Wall – Z mate Rigid insulation with Z metal furring channels.<br>☐ Remodel - Use existing insulation.<br>☐ Recycled jeans<br>See roofing for insulation integral part of roofing system. |
| **Coping for Parapet** | ☐ Metal, integral with roofing (verify with roof manufacturer)<br>☐ Metal, factory manufactured, Section - 077100 (07710) Manufactured Roof Specialties.<br>☐ Portland Cement Plaster. ☐ Other:_____ |
| | ☐ Flexible flashing - 076500 (07650) underneath metal coping, door and wall Openings (Vycor Plus by Grace). |
| **Fascia without Parapet** | ☐ Integral with roofing (verify with roofing manufacturer).<br>☐ Factory manufactured. ☐ Other: _____ |
| **Scupper,<br>Downspout,<br>Downspout Boot,<br>Splash Block** | Scuppers:<br>☐ Scupper only at parapet.<br>☐ Scupper, leader, downspout. |
| | Gutters:<br>Shape: As indicated on Drawings.<br>Type: ☐ Hanging ☐ Box/Built-in (internal, not exposed to view).<br>Specified in: ☐ Integral with metal roofing (match metal roofing).<br>Sheet metal - 076200 (07620): ☐ Galv steel ☐ copper.<br>Extra: ☐ Wire mesh cover to protect from leaves ☐ Strainer to prevent clogging. |
| | Downspout<br>Material: ☐ Schedule 40 black pipes (show diameter on dwg.).<br>Sheet metal - 076200 (07620): ☐ Galv steel ☐ copper.<br>Location: ☐ Internal (not exposed to view) pipe by plumbing consult.<br>☐ Exposed.<br>Termination:<br>☐ Tied to perimeter drain (Civil).<br>Splash block: ☐ Downspout, and boot (elbow).<br>☐ Internal pipe (Civil), and boot (elbow). |
| **Roofing** | ☐ New Roofing ☐ Re-Roofing ☐ Patch and repair |
| **Re-Roofing** | ☐ Complete tear off - including roof deck.<br>☐ Tear off - not including roof deck.<br>☐ Other: _____ |
| **Patch and Repair** | ☐ Because roof is leaking.<br>☐ Because roof equipment require patching.<br>☐ Other:_____ |

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## ROOF ACCESSORIES/SKYLIGHTS

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| **Skylights**<br>☐ on flat roof<br>☐ on slope roof<br>☐ on ridge | Unit (factory unit) - 086200 (08620):<br>Bristolite: ☐ GAL (insulated glazing)<br>AL-CM: ☐ acrylic single dome ☐ acrylic double dome<br>Velux: ☐ FCM (fixed, site-built curb mount for 0 to 60 degree slope)<br>Other: _____<br>Glazing: ☐ Acrylic ☐ Glass ☐ Polycarbonate ☐ Kalwall<br>Aluminum Frame: ☐ clear anodized ☐ color anodized ☐ Kynar<br>Operations: ☐ Fixed ☐ Operable - manual ☐ Operable - electric.<br>Shapes: ☐ Dome ☐ Pyramid ☐ As indicated.<br>Curb (8 inch min height for flat roof): ☐ Site built<br>☐ Integral with skylight (not recommended, prone to leaks)<br>Size: ☐ As indicated on dwg (standard size from mfg.) ☐ Custom size |
| | Metal Framed (site fabricated) - 086300 (08630):<br>☐ US Aluminum /CRL ☐ Kawneer ☐ Other: _____<br>☐ Rafter ☐ Perlin<br>Glass: ☐ Laminated ☐ Insulated ☐ Tinted glass ☐ Acrylic<br>Frame: ☐ Aluminum Cap<br>Aluminum Frame: ☐ clear anodized ☐ color anodized ☐ Kynar<br>Operations: ☐ Fixed ☐ Operable - manual ☐ Operable - electric. |
| **Tubular Skylights – 086210 (08625)** | ☐ Solatube ☐ Tru-lite ☐ SunTunnel by Velux ☐ Other: _____ |
| **Photovoltaics – 136100 (13600)** | Total Wattage: _____<br>Physical size: ☐ As indicated on Dwg.<br>☐ Battery backup<br>☐ Net metering.<br>Location: ☐ low-sloped roof ☐ sloped roof ☐ Sun shade ☐ on ground. |
| **Roof Accessories - 077200 (07720)** | Aluminum vertical ladder access specified in 055134 (05501).<br>Access hatch with ladder safety post: ☐ Type S by Bilco. Size as indicated.<br>Other: _____<br>Smoke Vents (lets smoke out during fire): ☐ Galv steel ☐ Acoustical STC 45<br>☐ Lumivent, polycarbonate skylight by Bilco.<br>Gravity Relief Ventilators: ☐ Greenheck Model GRS. Other: _____<br>☐ Roof Curbs: Do not act as structural members. Used to support lighter loads such as packaged air-handling units. (☐ Site Built ☐ Manufactured Unit)<br>☐ Equipment Supports: Act as structural members. Used to support heavier loads such as larger custom air-handling units. (By structural consultant)<br>☐ Equipment Isolators. (By Structural consultant) |
| **Roof Access Ladder:** can be either site fabricated by iron worker(055000) or manufactured item (055134) | 055000 (05500) Metal Fabrications:<br>☐ Field painted steel, galvanized exterior. (Default) ☐ Other: _____<br>055134 Aluminum ladders:<br>☐ Vertical – O'Keeffe Model 501.<br>☐ Vertical - Sure Step Model CL (Channel Ladder) by Royalite.<br>☐ Over the parapet ladders - O'Keeffe Model 522.<br>Interior Type: ☐ 90 degree vertical ☐ Incline<br>Exterior Type: ☐ 90 degree vertical ☐ Incline ☐ Vertical w/ over parapet.<br>☐ Fall-protection cage (surrounding the ladder).<br>☐ Security Door (lockable to deter access to ladder) – O'Keeffe accessories.<br>☐ Attic access pull-down ladders - Model SS/AL-by Precision Ladders (Super Simplex). |
| **Louvers and Vents - 089000 (10200)** | ☐ Aluminum Storm Louvers by C/S Specialties.<br>☐ #413-SXP (galvanized steel) non-drainable, 4 inch deep by Industrial Louvers.<br>☐ #450XP would be same as #413SXP but in aluminum. |

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| | ☐ #258 (aluminum, not available in galvanized steel), drainable by Industrial Louvers.<br>☐ K609HP, clear anodized by Airolite.<br>Finish: ☐ Factory powder coat (recommended) ☐ Field painted. |
| **Equipment Screens – 074223 (07413)** | ☐ Envisor by Cityscapes ☐ Marquee II by McElroy ☐ Other: _____<br>☐ Custom grille work. ☐ Portland cement plaster<br>☐ Site fabricate from metal wall panels and channels. |

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## EXTERIOR

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| **CMU** | Unit Masonry Finishes - 042011 (04811) (Exterior side) - also could be specified in structural consultant's Masonry spec section.<br>☐ Painted CMU finish - 099100 (09910).<br>☐ Sealed CMU finish - 042011 (04811), light- sand blast prior to sealing CMU. (Just cleaning doesn't quite do the job.)<br>☐ Anti-Graffiti CMU finish - 099623 (09966)<br>☐ Glazed block.<br>☐ Glass block.<br>Plaster Finish:<br>☐ Plaster directly on CMU for site wall.<br>☐ Plaster over metal lath and building paper on CMU for occupied spaces) |
| **Stone Masonry – 044300 (04860)** | Natural stones<br>Stone Type: ☐ Santa Barbara Sandstone ☐ Granite ☐ Lime Stone ☐ Other:<br>Attachment Method: ☐ Adhered ☐ Anchored<br>Frame work: ☐ CMU ☐ Concrete ☐ Stud ☐ Other: _____ |
| **Brick Masonry 042113 (04210)** | Brick Type: ☐ Modular ☐ Standard ☐ Norman ☐ Commercial Jumbo ☐ Jumbo<br>Method 1: Brick over solid: ☐ Concrete ☐ CMU ☐ Plywood ☐ Dens-Glass<br>Method 2: Two layers of brick with air gap (cavity). |
| **Manufactured Stone Veneer Assemblies - 047310 (04861)** | Man-made stones<br>☐ El Dorado Stones ☐ Cultured Stone by Boral ☐ Coronado<br>Name and Color: _____<br>Frame work: ☐ CMU ☐ Concrete ☐ Stud ☐ Other: _____<br>Attachment: ☐ Adhered ☐ Anchored<br>Trims: ☐ Window sill stone. ☐ Cap stone |
| **Thin Brick Veneer – 042114 (04814)** | ☐ Think Brick: 1/2 x 2-1/2 x 8 inches by H.C. Muddox<br>☐ Method: Adhered to exterior sheathing of wood-framed exterior walls. |
| **Framing** | Structural:<br>☐ Steel Stud - 054000 (05400).<br>☐ Wood Studs - 061000 (06100).<br>Non-Structural:<br>☐ Non-load bearing steel framing - 092216 (09111).<br>☐ Miscellaneous Carpentry - 061053 (06105). |
| **Portland Cement Plaster (Stucco) - 092400 (09220)** | Backing:<br>☐ Plywood Sheathing - 061000 (06100) by structural.<br>☐ Glass-mat gypsum sheathing (GP DensGlass) – Sheathing 061600 (06160)<br>☐ Metal lath and Building paper.<br>☐ Finish Texture: _____<br>☐ Integral color only<br>☐ Integral color and field painted (looks nice but field painting is not recommended, voids warranty on plaster finish).<br>☐ Patch and repair only for remodeling.<br>Soffit: ☐ Exposed. ☐ Prestige by AEP Span (metal ☐ solid or ☐ perforated).<br>Metal Trim: Zinc-Coated (Galvanized) Steel (default).<br>☐ Special Aluminum Reveals (Fry Reglet, need to note model on drawings) |
| **EIFS – 072419 (07241)** | ☐ System with water drainage. |
| **Metal Wall Panels - 074113 (07412)** | ☐ CS-200, concealed aluminum, Concept Series by Centria.<br>☐ Flat - Model IW-10A by Centria.<br>☐ Corrugated, Mini-V-Beam profile in 4-9/16" wide panels; lapped edges by AEP-Span.<br>☐ Belvedere Rib Panel System, BWR360 by ATAS.<br>☐ Flexbeam by Flexospan. |

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| | Finish: ☐ Solid factory Kynar coated galvanized steel.<br>Perforated metal panels: ☐ Kynar gal. steel ☐ Aluminum ☐ Stainless steel<br>☐ Matching soffit panels.<br>☐ Thermal batt insulation between studs from interior side. |
| **Siding - 074600 (07460)** | ☐ James Hardi - Vertical panels.<br>☐ Other: _____<br>Substrates: ☐ Plywood and moisture barrier ☐ CMU ☐ Other:_____ |
| **Exterior covered walkway** | Material: ☐ Metal Roof Panel ☐ Same as Metal Roof Panel.<br>☐ Other: _____ |
| **Sun Shade Devices** | Fixed Sun Screens – 107113 (10711) Coordinate with windows and storefronts.<br>☐ Sun Shade integral with Series 2600 Window by EFCO.<br>☐ 20" tapered section by EFCO.<br>☐ Model ST Series by Industrial Louvers, Kynar 2-coat finish.<br>☐ 8" Airfoil and 1-1/2 x 12 inch box outrigger by C/S.<br>Other: _____ |
| **Trellis panels – 108200 (10820)** | ☐ Greenscreen ☐ CableRail by Feeney ☐ Other: _____ |
| **Trellis walkway 06151** | Need to detail on Drawings.<br>☐ Cedar ☐ Redwood ☐ Pressure treated wood ☐ Other: _____ |
| **Composite Wood – 065114 (06512)** | ☐ Trex ☐ Nexwood ☐ Eon ☐ Other: _____<br>These are combustible. Can't be used in Type I construction.<br>Application: ☐ Deck ☐ Exterior decorative item |
| **Awnings – 107313 (10531)** | Awning is framed fabric extension projecting from and affixed to structure.<br>Unlike canopies, awnings have no supporting ground poles.<br>Unlike rectangular-shaped marquees that are supported by exposed rigid poles from above, awning fabrics incorporate and cover over any supporting framework and they are not limited to two dimensions.<br>Type: ☐ Fixed awnings.<br>Retractable awnings: ☐ Manually operated ☐ Motorized.<br>Metal: ☐ Wrought iron ☐ Other: _____ |
| **Canopy - 107316 (10533)** | Basis of Design: _____<br>☐ Custom, coordinate with structural. ☐ Tempered glass.<br>☐ Stainless steel cables.<br>Skin: ☐ Painted galvanized steel. ☐ Aluminum ☐ Stainless steel<br>Finishes: _____ |
| **Theater Marquee 10437** | ☐ Theater Marquee |
| **Unit Pavers – 321316 (02780)** | Basis of Design: ☐ Concrete. ☐ Brick.<br>Installation: ☐ Sand bed ☐ Mortar bed.<br>Edging Options: ☐ Precast ☐ Cast-In-Place. |
| **Site Paving** | Asphalt Paving – 321216 (02741) ☐ Normally specified by Civil Consultant<br>Concrete pavement – 321313 (02751) ☐ Normally specified by Civil Consultant<br>Pavement Marking 02752<br>☐ By Civil consultant. ☐ By Architect.<br>Detectable Warning Surfaces 02753<br>☐ By Civil consultant. ☐ By Architect. |
| **Porous Paving** | ☐ Porous Unit Paving – 321443 (02781)<br>☐ Porous Site-Cast Paving - |
| **Exterior Signs** | Signage – 101400 (10431)<br>☐ Building name/number signs<br>☐ Parking signs. (Symbols of accessibility, accessible direction, etc.)<br>☐ Traffic signs. (Stop, Yield, Do Not Enter, etc.). |
| **Fences and Gates** | ☐ Temporary fencing during construction only - 015000 (01500) |

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| | Chain-Link Fences and Gates – 323113 (02821)<br>Finish: ☐ Galvanized ☐ PVC over galvanized.<br>Fences: ☐ 9 gage (standard industrial) ☐ 6 gage (heavy industrial).<br>Gates: ☐ Manual ☐ Motorized.<br>☐ Swing Sliding: ☐ Cantilevered ☐ Overhead ☐ Floor Track.<br>Accessories: ☐ Privacy slats ☐ Wind screens. |
| | Ornamental Metal Fences and Gates – 323119 (02826)<br>Fences:<br>Ameristar: ☐ Montage Plus ☐ Aegis II ☐ Montage II<br>Master Halco: ☐ Classic Premier.<br>Ametco: ☐ Shadow 100.<br>Gates: ☐ Manual ☐ Motorized.<br>☐ Swing Sliding: ☐ Cantilevered ☐ Overhead ☐ Floor Track. |
| **Site Furnishings – 129300 (02870)**<br>☐ by Architect<br>☐ by Landscape consultant | Benches: ☐ Concrete ☐ Wood ☐ Metal ☐ Other: _____<br>Bike racks: ☐ Dero ☐ Dumor Description:_____<br>Finish: ☐ Factory powder-coated. Color: ☐ As selected by Architect.<br>Bollards:<br>☐ Metal pipe, Finish: ☐ Field painted. Color: ☐ As selected by Architect.<br>☐ Concrete filled metal ☐ Precast Concrete (select model number from Wausau)<br>☐ Lighted (by electrical consultant - coordinate) |
| **Site Gratings - 055300 (05530)** | Metal gratings:<br>☐ Removable Welded Steel Grating: Series GW-2 by McNichols.<br>☐ Trench Grates: OT-24 by Urban Accessories. |
| **Flagpoles – 107500 (10350)** | ☐ 30 ft mill finished aluminum, Straight shaft, 6 inch diameter with internal halyard by American.<br>Other: _____ |
| **Entrance Floor Mats - 124813 (12484) (Normally required for LEED)** | ☐ Pedimat by C/S.<br>Outside of building: ☐ Recessed with frame. ☐ Surface-applied w/out frame.<br>Inside the building: ☐ Recessed with frame. ☐ Surface-applied w/out frame.<br>Carpet type: ☐ Inside |
| **Foot Grilles - 124816 (12485)** | Stainless Steel:<br>Location: ☐ Outside ☐ Inside |
| **Traffic Coatings – 071800 (07180)** | Material: Polyurethane Coatings.<br>Pedestrian grade:<br>☐ Elastatex 500 Urethane Deck by Dex-O-Tex.<br>☐ Décor-Flor Broadcast Epoxy Floor by Dex-O-Tex<br>☐ Sikalastic 710/715 Traffic System by Sika.<br>Other: _____<br>Vehicle grade:<br>☐ Auto Dex 500 by Dex-O-Tex.<br>Other: _____ |
| **Playground**<br>☐ by Architect<br>☐ by Landscape consultant | ☐ Playground surfaces – 321816 (02791).<br>Seamless: ☐ Spectra Pour CA by SpectraTurf.<br>☐ Playground equipment - 116800 (02881).<br>☐ Watertable. ☐ Sandtable. ☐ Other: _____ |
| **Site Enclosures (not on roof) - 055000 metal fabrications** | ☐ Trash Enclosures ☐ Electrical Equipment Enclosures<br>Walls: ☐ CMU (by structural consultant) ☐ Chain-link fence ☐ Steel decorative fence.<br>Gate: ☐ Chain-link fence ☐ Steel decorative fence ☐ Steel corrugated metal ☐ w/louvered gate. |
| **Detectable Warning - Surfaces 320120** | Surface applied system (Raised truncated domes):<br>☐ Model A6003648 by Armorcast Products Company.<br>☐ Vitrified Polymer Composite (VPC) Cast In Place Detectable/Tactile Warning |

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| | Surface Tile based on Armor-Tile by Engineered Plastics Inc.<br>☐ TekWay Dome-Tiles by StongGo Industries.<br>Other: _____ |

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## INTERIOR

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| **Expansion Joint Covers Assemblies – 079500 (05811)** | ☐ Exterior roof, 661 Series, curb mounted welded to 651-A09 covering J1100 compression seal (equal in height on both sides) by InPro.<br>☐ Non-rated ☐ Rated<br>☐ Exterior, 651-A09 aluminum - surface mount (wall/wall ceiling/ceiling) by InPro.<br>☐ Non-rated ☐ Rated<br>☐ Interior, Wall to Wall system: 612 Series - Flush Mount, Polyurethane by InPro.<br>Floor to floor: ☐ Non-rated ☐ Rated ☐ Drip-proof<br>Material: ☐ Aluminum ☐ Polyurethane.<br>Floor to wall: ☐ Non-rated ☐ Rated ☐<br>Material: ☐ Aluminum ☐ Polyurethane.<br>Wall to wall: ☐ Non-rated ☐ Rated<br>Material: ☐ Aluminum ☐ Polyurethane. |
| **Rough Carpentry – 061000 (06100) (Normally by structural consultant)** | ☐ Coordinate with structural.<br>☐ Plywood Sheathing: See structural drawing for thickness.<br>☐ 3/4 inch Fire-retardant plywood on framing.<br>☐ Plywood backer boards. |
| **Non-load bearing metal framing – 092216 (09111)** | ☐ Steel studs and runners.<br>☐ Slip-type head joints.<br>☐ Flat strap and backing plate.<br>☐ Cold-rolled channel bridging.<br>☐ Hat-shaped, rigid furring channel.<br>☐ Resilient furring channel.<br>☐ Cold-rolled furring channel.<br>☐ Z-Shaped furring.<br>☐ Wire hangers, brace, and tie.<br>☐ Carrying channel. |
| **Miscellaneous Carpentry – 061053 (06105)** | Used when Rough Carpentry section is not specified but some interior wood studs are needed. ☐ Coordinate with structural. ☐ Plywood backer boards. |
| **Wood base, Wood chair rails, Wood door frames – 064023 (06402)** | ☐ Wood base, profile: _____<br>☐ Wood chair rails, profile:_____<br>☐ Wood door frames. |
| **Casework – 064023 (06402)**<br><br>**Use WI cabinet designation.** | Standards: ☐ WI (default, CCP shop drawing and certificate.)<br>☐ AWI. (for projects outside of Oregon, California, Nevada, and Arizona)<br>Grade: ☐ Premium ☐ Custom.<br>Countertops: ☐ Plastic Laminate (default) ☐ Recycled Glass/Concrete.<br>Solid Surfacing: ☐ Corian by Dupont ☐ LG ☐ _____<br>Quartz: ☐ Caesarstone ☐ Zodiaq by Dupont<br>☐ Silestone by Consentino ☐ _____<br>☐ Granite<br>Note: See **Laboratory Casework** section for Epoxy Resin tops.<br>Cabinets: ☐ Plastic Laminate. ☐ Wood veneer stained ☐ Solid Wood Painted.<br>Custom lockers (not manufactured item): ☐ P-lam ☐ Wood veneer ☐ _____<br>Reception Counters: ☐ Plastic Laminate (default) ☐ Wood veneer<br>Solid Surfacing: ☐ Corian ☐ Quartz ☐ Granite<br>Teaching walls: ☐ Plastic Laminate. ☐ Wood veneer.<br>Configuration: Door and Drawer Front Style: Flush overlay.<br>☐ Swing doors ☐ Sliding doors ☐ Drawers<br>☐ Swing glass doors ☐ Sliding glass doors ☐ Hopper doors.<br>☐ Non-magnetic hardware (MRI rooms) |

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| **Floor Tile** | See Flooring |
| **Sprayed fire proofing – 078100 (07811)** | Cementitious sprayed-on fireproofing: ☐ Grace ☐ Isolatek<br>Conditions: ☐ Concealed ☐ Exposed ☐ Exposed and field painted.<br>☐ Intumescent fire-resistive coating on Exposed (expensive option). |
| **Bulletin Boards – 101200 (10125)** | Bulletin boards differ from tackboards; bulletin boards are enclosed in cabinets, and tackboards are not.<br>Claridge: ☐ Imperial Series ☐ Contemporary Series ☐ Rival Series<br>☐ Large Contemporary Series ☐ Revere Series ☐ Classic Series<br>☐ Universal Series ☐ Deluxe Series |
| **Display Cases – 101200 (10125) (including for trophy)** | Claridge, aluminum, recessed: ☐ 370 Series: 3-1/2 inch angel face front.<br>☐ 1370 Series: 2 inch radius face front.<br>☐ 3370 Series: 3-1/2 inch fluted face front.<br>Display Case Type: ☐ Recessed ☐ Surface-Mounted ☐ Freestanding<br>☐ Non-illuminated ☐ Illuminated.<br>☐ Include wood box frame. ☐ No box frame, box will be site built. |
| **Toilet compartments – 102113 (10155)** | ☐ HDPE plastic by Hiny Hinders - Santana/Scranton<br>☐ Steel (factory baked enamel).<br>☐ Plastic-laminate ☐ Other: _____<br>Color: _____ (Santana recently eliminated many colors).<br>Note: Solid Phenolic (Trespa) type is not recommended (custom, need to design all the fittings, not ready made system)<br>Installation:<br>☐ Floor mounted - overhead braced.<br>☐ Floor to ceiling.<br>☐ Ceiling hung. |
| **Directories – 101300 (10410)** | ☐ Non-illuminated ☐ Illuminated. |
| **Lockers** | Metal Lockers - 105113 (10505)<br>☐ Welded. (expensive, better quality) ☐ Knock-down. (cheaper, lower quality)<br>Accessories: ☐ locker benches.<br>☐ Locker installed over concrete curb. |
| | Wood Lockers - Best to pick a model number from manuf. – 105116 (10506)<br>☐ Veneer Wood Lockers ☐ Plastic Laminate Lockers<br>☐ Plastic (HDPE) Lockers |
| **Fire Extinguishers and Cabinets – 104416 (10520)** | Fire Extinguishers: ☐ Multipurpose (2A-10B:C)<br>☐ Type K for kitchen.<br>Cabinets by J.L Industries:<br>☐ Panorama Series: Frameless Acrylic Door.<br>☐ Ambassador Series: Steel Trim and Door.<br>☐ Academy Series: Aluminum Trim and Door.<br>☐ Cosmopolitan Series: Stainless Steel Trim and Door.<br>☐ Embassy Series: Decorative Trimless Recessed Cabinet.<br>☐ Cavalier Series: Decorative Bronze or Brass Cabinet.<br>☐ Clear VU Series: Acrylic Bubble and Aluminum or Steel Cabinet.<br>☐ Corner VU Series: Steel, Stainless Steel and Aluminum Cabinet.<br>☐ Classic Series: Economy Galvanized Cabinet.<br>☐ Economyline Series: Economy Surface-Mounted Cabinet.<br>☐ Decorline Series: Economy Steel or Aluminum Cabinet.<br>Cabinets by particular model numbers:<br>☐ #1025W17 aluminum (10-1/2 x 24 x 6” deep) by JL.<br>☐ #1015W17 steel.<br>☐ #FX1025W17, or #FX1015W17 for fire rated type.<br>☐ #1015W12 steel, (10-1/2 x 24 x 6” deep) Ambassador by JL.<br>☐ 1600 Series by JL. |

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| | Cabinets by Larsen's.<br>☐ Gemini Series cabinet by Larsen's.<br>☐ Architectural Series cabinet by Larsen's.<br>☐ Occult by Larsen.<br>☐ Steel ☐ Stainless steel<br>☐ Other: _____<br>Cabinet Door: ☐ Break Glass ☐ Acrylic. ☐ Other: _____<br>☐ Hook only |
| **Payphones - 101700 (10750)** | Telephone enclosure: Stainless steel, Type 304, perforated interior.<br>☐ Product: #1305 by ASI.<br>Other: _____ |
| **Library Stack System – 115123 (11054)** | Manufacturers: ☐ Montel ☐ Spacesaver<br>Operation: ☐ Manual ☐ Electrical |
| **Projection Screens – 115213 (11132)** | ☐ Silhouette M (black case) by Draper.<br>☐ Series D front projection by Draper.<br>☐ Luma 2: 72"x 96", manual by Draper.<br>☐ Luma 2 – Heavy Duty Spring Roller Operated Projection Screen by Draper<br>☐ Manually operated ceiling mounted screen; Luma by Draper.<br>☐ Targa: 105" x 140", motorized by Draper.<br>☐ Artisan Series E: 72" x 96" with Natural maple finish case - ceiling mount.<br>☐ Access/Series M, 96 by 96 inches, optional 12 inch extra drop, optional High contrast Grey viewing surface, manual by Draper.<br>☐ Tensioned Cosmopolitan Electrol by Da-Lite, wall mounted, Da-Mat screen, 108 x 144 feet, 3 foot black drop, electrically operated.<br>Operation: ☐ Manual pull-down. ☐ Electrically operated.<br>Size: ☐ As indicated.<br>Mounts: ☐ on hard ceilings ☐ on suspended ceilings. ☐ None.<br>☐ Lectern w/controls of light, projection screen, shade, projector. |
| **Projector Mount Bracket - 115213 (11132)** | ☐ PRG Precision Gear mount by Peerless.<br>☐ Aero 2636, hard-lid ceilings by Draper.<br>☐ CMJ 455 variable position suspended ceiling kit by Peerless.<br>☐ LCD LOC II by BMS.<br>Television Mount: ☐ Bretford TWPW 27R-BK with safety belt and VCR bracket.<br>Others: _____ |
| **Assistive Listening Devices – 115217 (11521)** | ☐ Sound Mate #SMP-2 by Telex.<br>☐ ASL equipment by Listen Technologies.<br>☐ Other: |
| **Laboratory Fume Hoods – 115313 (11610)** | Fume hoods can't be turned off. Integral part of HVAC system.<br>☐ SafeAire II HOPEC IV by Fisher Hamilton<br>☐ Supreme Air fume hood by Kewaunee.<br>☐ Other: |
| **Laboratory Casework – 123553 (12360)** | ☐ Casework: Signature Series, contemporary full overlay, Style 05by Kewaunee.<br>☐ Work surfaces: Epoxy Resin Tops, Kemresin by Kewaunee.<br>☐ Other: _____ |
| **117610 (11761) View Boxes (X-Ray Illuminators)** | ☐ Surface mounted ☐ Recessed mounted.<br>☐ Series T-S-4-44-120V-DB400-HGP by Vista.<br>☐ 4X Hi-Lo by IMRT Phantoms<br>☐ Other: _____ |
| **Seating** | Fixed Audience Seating – 126100 (12610):<br>☐ University Seating with PowerUp base and 1000 non-upholster seat by KI.<br>☐ Custom Wood back by Irwin.<br>☐ Other: _____<br>Telescoping Stands – 126600 (12660):<br>Manufacturers: ☐ Hussey ☐ Interkal ☐ Irwin ☐ Others: _____ |

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| **Emergency Key Box 104116 (10524)** | Type: Fireman's:<br>☐ Key box – 3200 Series (holds up to 10 keys) "Knox Box" by Knox.<br>☐ Switch: Knox Key Switch. |
| **Metal Shelving – 105613 (10671)** | ☐ RiveTier boltless, open metal shelving by Western Pacific Storage.<br>☐ Other: _____ |
| **105626 (10562) Mobile Storage Shelving** | Manufacturer: ☐ Aurora ☐ Montel ☐ Spacesaver<br>Track: ☐ Recessed ☐ Surface mounted.<br>If surface mounted, fill between tracks with: ☐ Plywood sub-floor ☐ Concrete.<br>End panels: ☐ Laminate ☐ Steel.<br>Shelving: ☐ Cantilevered ☐ 4-post.<br>☐ Steel tops required.<br>How many shelves per unit? ☐ 4 ☐ As indicated on Drawings.<br>How deep are the shelves? ☐ As indicated on Drawings.<br>How high are shelves? ☐ As indicated on Drawings. |
| **Loading Dock Equipment – 111300 (11160)** | ☐ Hydraulic dock leveler by Kelly. 6 by 7 feet nominal size.<br>☐ Laminated dock bumpers.<br>☐ Scissors lift by Ecoa.<br>☐ Other: _____ |
| **Time Clocks 119400 (11940)** | ☐ Series 4000 Terminal by Kronos. |
| **Cubicle Curtains and Tracks – 102123 (10191)** | ☐ Curtains: Use InPro Catalog to pick pattern. Look for "Use for" to determine if the fabric selected is suitable for cubical curtains.<br>☐ Tracks: Series 19100 track system Salsbury.<br>☐ IV tracks<br>☐ Curtain: Salsbury.<br>☐ Hangers |

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## INTERIOR CEILINGS

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| **Exposed ceilings** | ☐ As is ☐ Field Paint ☐ Epic metal deck (pre-finished surface) |
| **Hard ceilings** | ☐ Gypsum board - 092900 (09250) ☐ Match existing. |
| **Dropped ceilings** | Acoustical Panel Ceilings – 095113 (09511)<br>☐ F Fissured, square edge by USG.<br>☐ Vinyl Faced Sheetrock Brand Lay-In Ceiling Tile with ClimaPlus performance by USG for Kitchen.<br>Sizes: ☐ 2 by 2. ☐ 2 by 4.<br>Hang from Roof Deck of Types:<br>☐ Concrete ☐ Metal Deck ☐ Concrete filled metal deck<br>MRI rooms ceiling grids: ☐ Aluminum ☐ Stainless steel |
| **Acoustical tile over hard ceilings** | Acoustical Tile Ceilings – 095123 (09512)<br>☐ 1 by 1. ☐ Match existing.<br>☐ Tectum panels screw mounted on gypsum board ceilings.<br>☐ Other _____ |
| **Decorative ceiling accents** | Suspended Decorative Grids – 095436 (09580)<br>☐ Metalworks by Armstrong.<br>☐ Serpentina by Armstrong.<br>☐ Other: _____ |
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## INTERIOR WALLS

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| **CMU walls** | Masonry - 042000 (04200) (Interior side)<br>Interior: ☐ As is. ☐ Painted CMU finish ☐ Exposed, sandblast.<br>Exterior: ☐ As is. ☐ Sealed CMU finish ☐ Anti-Graffiti CMU finish |
| **Gypsum Walls**<br>☐ Partitions.<br>☐ Ceilings. | Gypsum Board – 092900 (09250)<br>☐ Type X, 5/8 inch (Default).<br>☐ Type C, 5/8 inch, DensArmorPlus over Certainteed MemBrain vapor barrier with unfaced batt for walls – Mold-prevention.<br>☐ Type C, 5/8 inch DensArmorPlus FireCore at ceilings.<br>☐ Flexible type – curved application<br>☐ Acoustical Gypsum (SoundBreak by National Gypsum).<br>☐ Water Resistant (Paint finishes toilet room walls, not for tile backer).<br>☐ Abuse-Resistant Gypsum Board (At high traffic area prone to wall damage).<br>☐ Cementitious Backer Board (specified in section 093100 Tiles for tile substrate).<br>☐ Gypsum Sheathing - Dens-Glass – 061600 (06160)<br>Following Gypsum Finishes are Needed:<br>☐ Level 3 ☐ Level 4 (for flat paint only) ☐ Level 5 (all other paint gloss) |
| **Shaft-walls** | Gypsum shaft-wall assemblies - 092116 (09265)<br>☐ Metal CH Stud (able to be installed from one side only)<br>☐ Stair-well shaft. ☐ Elevator shaft ☐ Plumbing chase (contractor's option) |
| **Wood paneling** | Paneling – 064200 (06420)<br>☐ Plastic Laminate. ☐ Wood veneer. ☐ Marlite. ☐ Other: _____ |
| **Fiber Reinforced Plastic Panels** | FRP Panels – 068200 (06820): Used in kitchen/restroom walls rather than using ceramic tiles to save money.<br>☐ Marlite (White, default) ☐ Crane Composites (formerly Kemlite)<br>☐ Other: _____ |
| **Fiber Reinforced Laminate Panels** | ☐ Panolam – 068300: Similar to FRP panel above.<br>☐ Other: _____ |
| **GRG fabrication – 092713 (09271)** | Glass-Reinforced Gypsum fabrication: ☐ GP ☐ DEC |
| **Medium Density Fiber (MDF) board** | Interior Architectural Woodwork – 064023 (06402)<br>☐ 5/8 inch MDF wall finish rather than using gypsum board as finish on framing. Use in service corridors for durability. |
| **Marker board, chalkboard, tackboard** (check with District for pre-approved vendors) | Visual Surfaces – 101100 (10101):<br>Marker board: ☐ Series 555 by Polyvision. (indicate size on drawings 4'x8')<br>☐ LCS-II by Claridge (low gloss, double as projection screen).<br>Surface color: white.<br>Other: _____<br>Chalkboard: ☐ Series 555 by Polyvision. (indicate size on drawings 4'x8')<br>Surface color: ☐ green ☐ black ☐ grey ☐ as selected<br>Other: _____<br>Tackboard: indicate size on drawings 4'x8')<br>☐ Vinyl covered (default) ☐ Fabric covered<br>☐ unfaced, color cork ☐ unfaced, natural cork<br>Other: _____<br>Combo Units: ☐<br>Other: _____<br>Marker Walls: ☐<br>Other: _____<br>Tack Walls (non-acoustical): ☐ Fabric ☐ vinyl<br>Other: _____<br>☐ Custom Teaching Wall (specified in 06402 Interior Architectural Woodwork) |

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| | Incorporate: ☐ Markerboard ☐ Chalkboard ☐ Tackboard<br>Frame: Clear anodized aluminum (default) |
| **Display Cases – 101200 (10125)** | Trophy Cases:<br>☐ Model 3370 with fluted face front by Claridge.<br>☐ Model 3370 |
| **Wall Coverings – 097200(09720)** | Vinyl coated fabric:<br>☐ Type II wall covering for tackboard with Teflon by Koroseal. |
| **Tackable wall surface (Site Fabricated)** | Fabric-Wrapped Panels – 097723 (09771)<br>Basis of Design Product: _____<br>☐ Tackwall – 101100 (10101) fabricated at factory, not site fabricated.<br>☐ Site fabricated tackable panels, Fabricmate.<br>☐ Site fabricated acoustical panels<br>Thickness: ☐ 1/2 inch: Tackable (0.45 NRC) ☐ 1 inch: Acoustical. (0.80 NRC)<br>Fabric: Replaceable fabric. Fabric is not integral with board (easier to replace and repair).<br>☐ Guilford of Maine, FR701, Style 2100.<br>☐ Maharam<br>Stretched-Fabric Wall Systems 09773<br>☐ Site fabricated, Fabricmate.<br>☐ Other: _____ |
| **Acoustical wall surface** | Acoustical Wall Panels - 098433 (09841)<br>☐ Essi Acoustical.<br>☐ Soundsoak by Armstrong.<br>☐ M-90 by Empire Acoustical Systems.<br>☐ QuietPerf by Noise Barriers.<br>☐ Sono-Con SC-6P by Phoenix-E. (equal to QuietPerf)<br>☐ Other: _____ |
| **Wall guards** | Wall Guards – 102600 (10265)<br>Corner guards:<br>☐ PVC ☐ Stainless steel ☐ Other: _____<br>Chair Rail:<br>☐ Korowood Chair rails model BW90 by Korogard.<br>☐ CR-3 Chair rail (maple stain to be selected) by InPro<br>Sheet wall protection:<br>☐ Rigid sheet vinyl by In Pro Corp.<br>☐ Other: _____ |
| **Room Signs - 101400 (10431)** | ☐ Panel signs (room signs including ADA toilet signs) |
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## INTERIOR FLOORING

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| **Concrete Floor Sealer - 071910 (07190)** | ☐ Clear Sealer only: Cementone Clear Sealer by Scofield.<br>☐ Concrete stain: Lithochrome Chemstain Classic Stain by Scofield.<br>☐ Concrete stain and clear sealer. |
| **Resilient Floor Tile - 096519 (09651)** | Vinyl Composition Tile (VCT)<br>☐ Excelon - Imperial Texture by Armstrong.<br>☐ Excelon - StoneTex by Armstrong.<br>☐ Quartz tile by Altro.<br>☐ Other: _____<br>Solid Vinyl Tile<br>☐ Lightwood, 6" planks by Toli.<br>☐ SafeTcork by Roppe.<br>☐ Other: _____<br>Recycled Vinyl Tile<br>☐ Eco surfaces<br>☐ Other: _____<br>Wall Base: ☐ integral base ☐ Resilient base ☐ Wood base |
| **Vinyl sheet - 096516 (09652)** | ☐ Classic Corlon by Armstrong with integral base.<br>☐ Connection Corlon by Armstrong:<br>☐ Medintech by Armstrong.<br>☐ Mature by TOLI.<br>☐ Other: _____<br>Wall Base: ☐ integral base ☐ Resilient base ☐ Wood base |
| **Linoleum -096517 (09654)** | ☐ Marmorette by Armstrong.<br>☐ Granette with NATURCote by Armstrong<br>☐ Marmoleum Dual Tile by Forbo.<br>☐ Marmoleum Real by Forbo<br>☐ Marmoleum Dual [Tile] [Sheet] by Forbo<br>☐ Marmoleum Composition Tile (MCT) Linoleum Floor by Forbo<br>☐ Harmonium xf by Johnsonite.<br>☐ Veneto Collection by Tarkett.<br>☐ Other: _____<br>Wall Base: ☐ integral base ☐ Resilient base ☐ Wood base |
| **Static dissipative - 096536 (09661)** | ☐ Rubber Tile: Mega al, Article 200, smooth surface, 24 x 24 by Noraplan.<br>☐ Rubber Sheet: Noraplan mega al, Article 100, roll size by Noraplan.<br>☐ Rubber Tile for Access Floor Panels: Mega al, Article 296, smooth surface, 24 x 24 by Noraplan.<br>☐ Other: _____ |
| **Epoxy Flooring - 096723 (09672)** | Epoxy flooring by Stonhard Products<br>☐ Stonshield HRI [restrooms].<br>☐ Stonshield GSI [Higher end restrooms cost 20% more installed than HRI].<br>☐ Stonclad GS [warming kitchens].<br>☐ Stonclad UT [full service kitchens].<br>☐ Other: _____ |
| **Carpet** | Carpet (sheet ) - 096816 (09680):<br>☐ LMUSD: Lucia Mar with UltraLoc MP backing by Shaw.<br>☐ No Rules Collection by Shaw.<br>☐ Double Knit by Shaw.<br>☐ http://www.tandus.com/product-catalog/flooring/plateau_51081.html.<br>☐ Travertine 40009 by Tandus.<br>☐ Charlemont by Bentley Prince Street<br>☐ UPC by Bentley Prince Street |

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| | ☐ CYP 42 by Durkan<br>☐ Kami by Mannington.<br>☐ Surreal MC007 by Mohawk.<br>☐ Faculty IV by Lees.<br>Bello III by LEES.<br>☐ Other: _____<br>Carpet Tile - 096813 (09681):<br>☐ Entropy by Interface.<br>☐ Braided by Interface.<br>☐ Silurian GlasBac Tile by Interface.<br>☐ FLOR by Interface.<br>☐ Super Flor by Interface.<br>☐ Surreal MC007 by Mohawk.<br>☐ Stimulus, P/6565 blip by Milliken.<br>☐ Savanna by Milliken.<br>☐ Radiance by Shaw.<br>☐ Disperse Tile by Shaw.<br>☐ No Rules Collection by Shaw.<br>☐ Diffuse by Shaw.<br>☐ Fade Tile by Shaw.<br>☐ Brainstorm #03387, ER3 Modular by Tandus.<br>☐ Landscape Colours by Tandus.<br>☐ Abrasive Action by Tandus (interior walk-off mat)<br>☐ Other: _____ |
| **Wall Base** | Rubber Base - 096513 (09651):<br>☐ Type TS by Burke. (TS more expensive than TP type)<br>☐ Type TP by Johnsonite.<br>Style: _____<br>☐ Resilient flooring: Cove (with top-set toe)<br>☐ Carpet: Straight (toeless).<br>Base Height: As indicated.<br>☐ Wood base – 064023 (06402) |
| **Wood Flooring - 096400 (09640):** | Basis of Design Product: _____<br>Material: ☐ Solid wood. Engineered (laminates): ☐ Armstrong ☐ Pergo<br>Bamboo: ☐ Calibamboo.<br>Width: ☐ Strip, 1-1/2 to 2-1/4 inches wide, random lengths.<br>☐ Plank, 3 to 8 inches wide, random lengths.<br>☐ Parquet.<br>Species: _____<br>Wood Finish: ☐ Field Finished: Solid (traditional) ☐ Factory Finished.<br>Attachment Method: ☐ Glue ☐ Nailed<br>Substrate: ☐ Wood ☐ Concrete<br>Wall base: ☐ Matching Wood ☐ Rubber base |
| **Concrete moisture barrier** | Concrete Moisture Barrier - 071920 (07191)<br>Applied when moisture test fails. Need to bead blast floor prior to application. |
| **Concrete moisture test** | Concrete Moisture Test - 014150 (01415)<br>Test Prior to installing carpet, resilient floor over concrete. |
| **Access flooring - 096900 (10270)** | Equipment Room:<br>☐Panel: RWC100 (1000 lbf concentrated load) concrete filled, cornerbolt steel panel.<br>Understructure: M285 pedestal, B800 base, BG-4 steel stringer, 4x4' rigid grid system stringer system by Maxcess.<br>MRI Room: |

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| | ☐ Panel: H-24/60 (1750 lbf concentrated load), solid aluminum.<br>Other: _____<br>Pedestal Height: As indicated. (12 inches-default, confirm floor is depressed)<br>Laminated Floor Tile for access flooring:<br>☐ Nevamar Company, LLC, with Maxcess SpecTrim edges.<br>Floor coverings: ☐ VCT ☐ Solid vinyl tile ☐ Static-control ☐ raw (none).<br>Type: ☐ Steel (cheaper) ☐ Aluminum (more expensive, MRI rooms) |

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**TILE – 093000 (09310)**

Ask for TCNA's TCA manual if you don't have one. ☐

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| **Floor**<br>Thickset (coordinate 2" slab depression with structural)<br>Location:<br>☐ On grade<br>☐ Upper floors. | Basis of Design style, color, manuf: _____<br>Type: ☐ Unglazed Ceramic Mosaic Tile ☐ Other:<br>Size: ☐ 2x2 inches ☐ As indicated on Drawings.<br>Substrate: ☐ Concrete flooring ☐ Plywood flooring<br>Concern with floor deflection? ☐ Yes ☐ No.<br>Thickset (2 inch depression required): ☐ TCA #F121 (w/waterproofing)<br>☐ TCA #F132 (no waterproofing)<br>Thinset: ☐ TCA #F122 (w/waterproofing) ☐ TCA #F113 (no waterproofing)<br>Shower: ☐ TCA #B415 (waterproof membrane, with TCA W244 wall).<br>Use thinset method for remodeling tiled floors, unless new floor drain (by plumbing consultant) is also needed. |
| **Base** | Basis of Design type, color, manuf: _____ |
| **Walls** | Basis of Design style, color, manuf: _____<br>Type: ☐ Field Glazed Ceramic Tile ☐ Accent Glazed Ceramic Tile ☐ Other:<br>Size: ☐ 4x4 inches ☐ As indicated on Drawings.<br>Thinset: ☐ TCA #W244 (with or without water barrier)<br>☐ Tile over cement board.<br>☐ Gypsum board and painted above wainscot tiles. |
| **Threshold at Tile transition** | Stone thresholds: ☐ Marble ☐ Granite<br>☐ Solid polymer thresholds. |
| **Ceiling** | ☐ TCA #SR614 (installation over fiber-reinforced gypsum board over waterproof membrane). |

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# WINDOWS

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|---|---|
| **Sound rated** | General: If needed indicate STC values where required for each windows types. |
| **Steel Windows- Hollow Metal (Cold formed) - 085123 (08510)**<br>☐ Exterior<br>☐ Interior | Coordinate this item with 08110 Steel door and frames.<br>Fire-rated: ☐ 20 min. ☐ 40 min ☐ 60 min ☐ Non-fire-rated.<br>Basis of design: ☐ DV Fyre-Tec. ☐ Optimum. ☐ HM door manufacturers<br>☐ Fixed. ☐ Sliding ☐ Casement ☐ Awning ☐ Other:<br>Glazing Type: Cross-reference – 088000 (08800) for actual glazing data.<br>☐ clear insulated. ☐ clear insulated w/ low-e ☐ single pane ☐ other: _____<br>Finish: ☐ Standard field paint - 099100 (09910) ☐ Factory finished.<br>☐ High Performance field paint – 099600 (09960) |
| **Steel Windows - Solid Steel (Hot rolled) - 085123 (08510)**<br>☐ Exterior<br>☐ Interior | Fire-rated: ☐ 20 min. ☐ 40 min ☐ 60 min ☐ Non-fire rated.<br>Basis of Design: ☐ Jamestown 175, 1-3/4" deep by Hope's Windows, Inc.<br>☐ Torrance Steel Window<br>Other: _____<br>☐ Fixed. ☐ Sliding ☐ Casement ☐ Awning<br>☐ Single Hung ☐ Double Hung ☐ Projected ☐ Other:<br>Glazing Type: Cross-reference – 088000 (08800) for actual glazing data.<br>☐ clear insulated. ☐ clear insulated w/ low-e ☐ single ☐ other: _____<br>☐ Standard field painted – 099100 (09910) ☐ Factory painted.<br>☐ High Performance Coatings field painted – 099600 (09960) |
| **Aluminum Windows - 085113 (08520)**<br>☐ Exterior<br>☐ Interior | ☐ Fixed. ☐ Sliding ☐ Casement ☐ Awning<br>☐ Single Hung ☐ Double Hung ☐ Projected ☐ Other:<br>Glazing Type: Cross-reference 08800 for actual glazing data.<br>☐ Clear insulated. ☐ clear insulated w/ low-e ☐ single ☐ other: _____<br>☐ Clear anodized ☐ Color anodized: _____<br>☐ 2-coat Kynar 70% ☐ 2-coat Kynar 70% Mica ☐ 3-coat Kynar 70%<br>Color:_____<br>Better to cross-reference other section to match if possible. |
| **Wood Windows – 085200 (08550)**<br>☐ Exterior<br>☐ Interior | Category: ☐ Stock windows.<br>☐ Custom windows as detailed on Drawings [to match existing].<br>Types: ☐ Fixed. ☐ Sliding ☐ Casement ☐ Awning<br>☐ Single Hung ☐ Double Hung ☐ Projected ☐ Other: _____<br>Muntin bars: ☐ True divided lites ☐ Simulated divided lites<br>Glazing: ☐ clear insulated ☐ clear insulated w/low -e ☐ single pane. |
| **Clearstory Windows** | Glazing: ☐ Glass ☐ Kalwall.<br>Type: ☐ Fixed ☐ None.<br>Operable: ☐ Manual ☐ Electrical ☐ None.<br>Same window as: |
| **Window Wall** | Glazing: ☐ Glass ☐ Kalwall. |
| **Aluminum Frames - 081216** | Consider using this section for "interior" applications of entrances and storefront.<br>Much cheaper compare to exterior types and unnecessary.<br>Storefronts:<br>Wilson Partitions. (Part of Arcadia Windows)<br>☐ Series 525 with 2 inch trim.<br>Western Integrated Materials, Inc.<br>☐ Series 487 with 2 inch trim.<br>☐ Series 725 with 2 inch trim.<br>☐ Modulex, Inc; Division of Pacific National Group.<br>☐ RACO Interior Products, Inc.<br>☐ Other: _____<br>Doors:<br>☐ Wide stile ☐ Medium stile ☐ Narrow stile |

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| | Finish:<br>☐ Clear anodized ☐ Color anodized: _____<br>☐ 2-coat Kynar 70% ☐ 2-coat Kynar 70% Mica ☐ 3-coat Kynar 70%<br>Color:_____<br>Better to cross-reference other section to match if possible.<br>Glazing:<br>☐ Tempered, single pane.☐ Clear insulated ☐ clear insulated w/low -e |
| **Storefront - 084113 (08411)**<br>☐ Exterior<br>☐ Interior<br><br>Glazing:<br>Storefront:<br>☐ Clear insulated<br>☐ Clear insulated & e-coat<br>Door:<br>☐ Clear 1/4 inch single.<br>☐ Insulated glazing on doors (rare). | Storefront (Window):<br>☐ Trifab Versaglaze 451, Non-thermal, 2" x 4-1/2" by Kawneer.<br>☐ AFG451 Series, 2" x 4-1/2" by Arcadia.<br>☐ TC470 Series, 2-1/4 by 4-1/2 inch by Arcadia.<br>☐ 451-S, 2 by 4-3/4 inch by US Aluminum.<br>Other: _____<br>Swing Door:<br>☐ Wide (5 inch), Tuffline 500 by Kawneer.<br>☐ Medium (3-1/2 inch) Tuffline 350 by Kawneer.<br>☐ Narrow (2-1/8 inch) 190 by Kawneer.<br>☐ WS512 Series, Wide Stile Door 1-3/4" by Arcadia.<br>☐ Model 850, 5 inch wide stiles, heavy-duty doors by US Aluminum<br>☐ Model 800, 3-1/2 inch medium stile, heavy-duty doors by US Aluminum<br>Other: _____<br>Note: Tuffline is 3 times more expensive than regular line but so much better.<br>Door wall thickness: ☐ Heavy (Tuffline, 0.188 inch) ☐ Standard (0.125 inch)<br>Wall Frame: ☐ Heavy ☐ Standard<br>☐ Swing, tempered, full glazing (1/4 inch clear single glazing)<br>Finish: ☐ Clear anodized ☐ Kynar 70 %: Color:_____<br>Transom: ☐ Single ☐ Insulated ☐ Tinted ☐ None<br>Sidelight: ☐ Single ☐ Insulated ☐ Tinted ☐ None<br>☐ Sliding Aluminum Framed Glass Door – 083213 (08163) |
| **Glazed Aluminum Curtain Walls – 084413 (08911)** | ☐ 1600 Wall System 1 by Kawneer.<br>☐ System 5600, 2-1/4 inch system by EFCO.<br>☐ Other: _____ |
| **Glazing – 088000 (08800)** | Need values from Mechanical Consultant.<br>Windows: Insulated, 1 inch total (2 pane of 1/4 and 1/2 of air space)<br>Clear glazing: ☐ Insulated glazing by Oldcastle. ☐ Other: _____<br>Clear, low-e glazing: ☐ Solarban 60 (low -e coating) by PPG. ☐ Other: _____<br>Doors: ☐ 1/4 inch, clear tempered glass. ☐ Other: _____<br>☐ Tinted ☐ Laminated ☐ Fire-rated glazing |
| **Flexible Sheet Flashing - 076500 (07650)** | Use at all openings to minimize water intrusions.<br>☐ Vycor Plus by WR Grace.<br>☐ Tyvek flashing system, commercial by DuPont.<br>☐ Other: _____ |
| **Horizontal louver blinds - 122113 (12491)** | ☐ Riviera, 1 inch wide aluminum by Levolor.<br>☐ Riviera, 2 inch wide aluminum by Levolor.<br>☐ CD60, 1 inch wide aluminum by Hunter Douglas.<br>☐ Chalet Woods, 2 inch wide Basswood by Hunter Douglas.<br>☐ EverWood, 2 inch wide composite wood by Hunter Douglas.<br>☐ Other: _____ |
| **Vertical louver blinds - 122116 (12492)** | Basis of Design: _____ |
| **Roller Window Shades - 122413 (12494)** | ☐ 0706 Oyster Blackout by MechoShade.<br>☐ Thermo Veil Basketweave Collection, 1300 Series by MechoShade.<br>☐ Vimco by Lutron. |

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| | ☐ Electrically Operated Roller Shades Sivoia QED by Lutron.<br>Operation: ☐ Manual pull-chain ☐ Electrically operated.<br>Configuration:<br>☐ Solar: ThermoVeil 1300 Series basket weave by MechoShade.<br>☐ Blackout: ThermoVeil 700 Series for A/V by MechoShade.<br>☐ Dual shade (both solar and blackout)<br>☐ Other: _____<br>Single shades bracket: ☐ SlimLine ☐ Standard ☐ Pocket Extended ☐ Extended.<br>☐ Double shades #10, blackout rear, sunscreen front.<br>☐ Double shades #15, blackout top, sunscreen bottom.<br>Mounting: ☐ Surface mounted ☐ Surface mounted with fascia ☐ Recess mounted with ceiling pocket and fascia ☐ Recess mounted without ceiling pocket or fascia. |

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# DOORS

(Need to see the Door Schedule sheet)

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| **Sound rated** | General: If needed indicate STC values where required for each door types. |
| **Steel Doors and Frames - 081113 (08110)**<br>Interior:<br>☐ 18 gage doors w/ 16 gage welded frames. (knock-down for LMUSD)<br>Exterior:<br>☐ 16 gage doors w/ 16 gage welded frames. (14 gage frame for LMUSD) | Fire-rated: ☐ 20 min. ☐ 45 min ☐ 60 min ☐ 1-1/2 hr ☐ Non fire rated<br>Glazing (1/4" default) at: ☐ Narrow lite. ☐ Half. ☐ Full ☐ None<br>☐ Safety glazing for fire-rated. (Wire glass is not allowed.)<br>☐ 1-way security mirror glazing.<br>Louver: ☐ at bottom. ☐ Full panel ☐ Size as indicated<br>☐ Fusible link for fire-rated. ☐ Transom louvers (10200)<br>Transom Glazing Type: ☐ Insulated ☐ Single ☐ None<br>Sidelight Glazing Type: ☐ Insulated ☐ Single ☐ None<br>☐ Factory primed for field painted - 099100 (09910) -default.<br>☐ Factory primed for field high performance coatings - 099600 (09960)<br>☐ Factory finished w/ powdered or enamel. |
| **Aluminum Entrance Doors - 084113 (08411)** | See Storefront in Windows. |
| **Automatic Entrance Doors - 084229 (08460)**<br>☐ Exterior.<br>☐ Interior. | Following furnish aluminum doors, operators, and sensors as one system.<br>Manufacturers: ☐ Horton ☐ Door-O-Matic ☐ Stanley ☐ Other: _____<br>Door type: ☐ Sliding ☐ Swing (Need guard rail)<br>Finish: ☐ Clear anodized ☐ Other: _____<br>☐ Match storefront or windows system finish. (difficult to Kynar) |
| **All-Glass Entrance and Storefronts- 084126 (08450)** | Entrances:<br>Stainless Steel Fitting: ☐ Patch fittings ☐ Continuous rail fittings<br>☐ Exit Devices |
| **Flush Wood Doors – 081416 (08211)**<br>**[Need to distinguish flush vs stile and rail when both are in project]**<br>☐ Exterior (no warranty)<br>☐ Interior (lifetime-warranty)<br><br>Special:<br>☐ Pocket Doors<br>☐ Sliding Doors | Fire-rated: ☐ 20 min. ☐ 40 min ☐ 60 min ☐ Non fire rated<br>Glazing: ☐ Vision glazing. ☐ Full glazing. ☐ None<br>☐ Safety glazing for fire-rated. (wire glass is not allowed)<br>Louvers at: ☐ Bottom ☐ Full panel ☐ Size as indicated ☐ None<br>☐ Fusible link for fire-rated.<br>Louver material: ☐ Galvanized steel ☐ Clear anodized ☐ Color anodized.<br>☐ Closet Doors. ☐ Pocket Doors. ☐ Lead lined.<br>Face:<br>☐ Plastic Laminate ☐ Medium Density Overlay (MDO) -field painted.<br>Veneers: ☐ plain sliced white maple ☐ plain sliced white birch ☐ Other: ____<br>Solid Core: ☐ staved lumber core (SLC)<br>☐ structural composite lumber(SCL)<br>Frame: ☐ Hollow Metal ☐ Wood ☐ Aluminum |
| **Stile and Rail Doors – 081433 (08212) (swinging)**<br>☐ Exterior (no warranty)<br>☐ Interior (lifetime-warranty) | Fire-rated: ☐ 20 min. ☐ 40 min ☐ 60 min ☐ Non fire rated<br>Glazing: ☐ Vision glazing. ☐ Full glazing. ☐ Half ☐ None<br>☐ Safety glazing for fire-rated. (wire glass is not allowed)<br>Louvers at: ☐ Bottom ☐ Full panel ☐ Size as indicated ☐ None<br>☐ Fusible link for fire-rated.<br>Construction: ☐ Stile and Rail ☐ Raised-Panel ☐ Flat-Panel<br>Face: ☐ Plastic Laminate Veneers: ☐ plain sliced white maple<br>☐ plain sliced white birch ☐ medium density overlay (MDO)-field painted.<br>Frame: ☐ Hollow Metal ☐ Wood ☐ Aluminum<br>☐ Stile and Rail Doors (sliding): 08263 |
| **FRP Doors 08221** | ☐ Fiberglass reinforced plastic doors and frames |
| **Sound-control doors 08346** | ☐ STC: _____ |
| **Folding Doors 08351** | Wood closet doors: ☐ Stile and Rail ☐ Flush |
| **Overhead Doors** | Overhead Coiling Doors - 083323 (08331) |

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| ☐ Exterior<br>☐ Interior | ☐ ESD 10 by Cornell: rolling service doors.<br>☐ ESD 20 by Cornell: insulated doors.<br>☐ ERD 11 by Cornell: Smokeshield Smoke and fire rated coiling doors.<br>☐ ERD 21 by Cornell: Smokeshield Firemiser insulated fire doors.<br>☐ Non-insulated ☐ Insulated<br>☐ Non-rated ☐ Rated<br>Manual: ☐ Push-up ☐ Crank ☐ Chain ☐ Motorized<br>Mounting: ☐ Face of Wall ☐ Between Jambs<br>---<br>Counter Doors 08323 (08331):<br>☐ ESC 10 by Cornell: rolling counter doors.<br>☐ ESC 20 by Cornell: rolling counter doors with integral frames.<br>☐ ERC 11 by Cornell: Rolling counter fire door.<br>☐ ERC 20 by Cornell: Rolling counter fire door with integral frame.<br>☐ with integral counter ☐ without integral counter.<br>☐ Non-rated ☐ Rated<br>Manual: ☐ Push-up ☐ Crank ☐ Chain ☐ Motorized<br>Mounting: ☐ Face of Wall ☐ Between Jambs<br>---<br>Overhead Coiling Grilles - 083326 (08334)<br>☐ ESG 10 by Cornell: open curtain rolling grilles.<br>☐ ERG-IBC by Cornell: CrossingGard emergency Response Grille.<br>Manual: ☐ Push-up ☐ Crank ☐ Chain ☐ Motorized<br>Mounting: ☐ Face of Wall ☐ Between Jambs<br>---<br>Overhead Sectional Doors 083613 (08361)<br>* Cornell does not make sectional doors.<br>☐ Aluminum 511 glazed panels by Overhead Door<br>☐ Model 3216, Thermally-Broken Insulated Steel Back by CHI.<br>Glazing: ☐ Tempered Glass ☐ Insulated glass (14 feet wide max) ☐ Plexiglas ☐ Clear Lexan<br>Operation: ☐ Pull Rope ☐ Chain ☐ Motorized<br>Finish: ☐ Clear anodized (standard) ☐ Bronze anodized ☐ Powdered coated<br>Spring Cycle Duty: ☐ 10k (standard) ☐ 25k ☐ 50k ☐ 75k ☐ 100k |
| | Finish:<br>☐ Factory powdered coated galvanized steel (default). ☐ Stainless steel.<br>☐ Clear anodized aluminum. ☐ Color anodized aluminum, color: _____ |
| **Access Doors and Frames - 083113 (08311)**<br>☐ Exterior<br>☐ Interior | ☐ Fire-rated ☐ Non-fire-rated. |
| | ☐ Walls. ☐ Ceilings. ☐ Insulated. ☐ Non-insulated.<br>☐ Exposed flange. ☐ Flange covered with joint compound for gypsum wall. |
| | ☐ Field painted, factory primed steel. (default) ☐ Stainless steel. |
| **Smoke seal system for elevator lobbies** | Plastic 083493 (07870): ☐ SmokeGuard<br>Metal Door 08301: ☐ Total Door System |
| **Door Hardware – 087100 (08710)** | Hardware Consultant: Send floor plans and door schedule, particular finish.<br>Electrical Consultant: Coordinate for electrical requirements below.<br>☐ Low energy door operators (accessible push button type for regular doors)<br>☐ Magnetic door holders |
| **Automatic Door Operators 087113 (08716)** | Doors are not supplied, only operators. This section can be combined with 087100.<br>☐ Low energy door operators (accessible push button type) |
| **Fences and Gates** | See Coordination - Exterior. |
| **Movable Walls 10222** | ☐ Genius by KI. ☐ Modular Walls by Herman Miller. Other: _____ |
| **Operable Panel Partitions - 102226 (10651)** | ☐ Paired panel Model #632 by Hufcor.<br>☐ Paired panel Series 6500 by Hufcor. |

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| | ☐ Alpha Series by Advanced Equipment Corp.<br>☐ Classic Elite by Skyfold.<br>Type: ☐ Manual. ☐ Electrically operated. STC Rating:_____<br>Pocket Door: ☐ Integral. ☐ by other door manufacturer ☐ None. |
| **ICU/CCU Doors**<br>**084243 (08343)** | Manual ☐ Sliding ☐ Swinging<br>Finish: ☐ Match storefront or windows system finish. ☐ Other: _____ |

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## PAINTING

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| **Paint Manufacturer:** Basis of Design | ☐ Dunn-Edwards. ☐ Sherwin Williams. ☐ PPG.<br>☐ Vista Paint. ☐ Other:_____ |
| **Exterior Paint - 099100 (09910)** | CMU: ☐ Semi-gloss<br>Concrete: ☐ Semi-gloss<br>Portland Cement Plaster: ☐ Standard latex paint ☐ Elastomeric paint: Tnemec 156 Enviro-Crete by Tnemec.<br>Gloss: ☐ Flat ☐ Semi-gloss<br>Metal: ☐ Semi-gloss ☐ Gloss<br>Wood: ☐ Painted. ☐ Stained and clear finish ☐ Clear finish. |
| **Interior Paint - 099100 (09910)** | CMU: ☐ Semi-gloss<br>Concrete: ☐ Semi-gloss<br>Metal: ☐ Semi-gloss ☐ Gloss<br>Gypsum Board:<br>Ceiling: ☐ Semi-gloss ☐ Eggshell ☐ Flat<br>Walls: ☐ Semi-gloss ☐ Eggshell<br>Gypsum Veneer: ☐ Semi-gloss ☐ Flat<br>Glass-Reinforced Gypsum(GRG): ☐ Semi-gloss ☐ Flat<br>Wood: ☐ Painted. ☐ Stained and clear finish ☐ Clear finish. |
| **High Performance Coatings - Field painted - 099600 (09960)** | Need to indicate on drawing where high performance paint vs regular paint will be applied.<br>Plaster: See Exterior Paint above.<br>Metals:<br>☐ Gypsum board (Epoxy): 113 by Tnemec.<br>☐ CMU walls (Epoxy): Stoneglaze by Stonhard.<br>☐ Galvanized and Ferrous Metal Finish: Aliphatic Acrylic Urethane (Semi-gloss finish)<br>☐ Metallic Finish: Endura-Shield 1077, spray-applied by Tnemec.<br>☐ Non-Metallic Finish: Endura-Shield 1075 by Tnemec. |
| **Factory Finishes - specified in each section (Some common options, check with manufacturers)** | Steel:<br>☐ Factory primer only for field finish.<br>☐ Powdered coated.<br>☐ Enamel.<br>Galvanized Steel:<br>☐ Hot-dipped galvanized.<br>☐ Zinc coated.<br>Aluminum:<br>Kynar (fluoropolymer): ☐ 2 coat (primer & finish) ☐ 3 coat (add clear coat)<br>Anodized: ☐ Clear anodized ☐ Colored anodized, color: |
| **Anti-Graffiti Coating System - 099623 (09966)** | Non-sacrificial Anti-Graffiti Coating System: Clear Urethane based system: Textured Coatings of America.<br>☐ Clear ☐ Opaque. |

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## STAIRS/ELEVATORS

Identify a stair number when more than one stair exists for a project. (Do the same for elevators)

**Huge Disclaimer: Elevators/Lifts are specialized equipment that is beyond my expertise. Please contact your favorite manufacturer and seek help with specs and drawing details. Do not design them in a vacuum (you will have change orders). Have the elevator rep edit their standard spec for your project. I can't edit their spec (again, you will have change orders if you have me edit).**

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| **Metal Fabrication 055000 (05500)** | Bollards: ☐ Utility type, steel tube with concrete fill.<br>Extruded Abrasive Metal Nosings (at stairs):<br>☐ Type 24 by American Safety Tread<br>☐ Type 24 Spectra by Wooster Products Inc. |
| **Cast-In-Place Concrete - 033000 (03300)** | ☐ Concrete stairs - Coordinate with structural. |
| **Metal Stairs - 055100 (05511)**<br>☐ Exterior. ☐ Interior. | ☐ Site fabricated.<br>☐ Railing as indicated on Drawings.<br>☐ Field poured concrete treads. |
| **Prefabricated Steel Stair System - 055112 (05512)**<br>☐ Exterior.<br>☐ Interior. | ☐ Coordinate with structural for landing attachment to structure.<br>☐ American Stairs (Basis of Design). Sharon Stair is equal.<br>☐ Picket (default) ☐ Multiple (5) strand round design.<br>☐ Field poured concrete treads.<br>☐ Abrasive nosing. (05500)<br>☐ Field painted. (09910) |
| **Pipe and Tube Railings - 055213 (05521)**<br>☐ Exterior.<br>☐ Interior. | ☐ Interior: Field painted steel.<br>☐ Exterior: Field painted galvanized steel.<br>☐ Stainless steel used for :<br>Wing wall for drinking fountains<br>☐ in this section. ☐ Toilet Accessories Section 102800 (10801) ready made wing-wall from stainless-steel grab bars.<br>☐ Wing wall for automatic entrance doors.<br>☐ Wing wall below relocatable HVAC unit. |
| **Ornamental Railings - 057300 (05721)**<br>☐ Exterior.<br>☐ Interior. | ☐ Standard catalog items by Julius Blum.<br>Railing: ☐ Factory finished steel ☐ Factory prime, field finished steel<br>☐ Stainless steel ☐ Aluminum -clear anodized. ☐ Bronze<br>Options: ☐ Glass infill. ☐ Wood handrail cap ☐ Wrought iron railings<br>☐ Stainless steel inset. |
| **Ladders**<br>☐ Exterior.<br>☐ Interior. | ☐ Field painted steel. Galvanized steel at exterior – 055000 (05500)<br>☐ Aluminum ladders - 055134 (05501) by Alaco.<br>☐ Other: _____ |

| | |
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| **Hydraulic Elevators - 142400 (14240)**<br>**Get help from Elevator Rep.** | Indicated the following on the Drawings:<br>☐ Number of stops. ☐ Total travel height. ☐ Size.<br>☐ Custom call buttons. ☐ Light fixtures.<br>Basis of Design:<br>☐ Kone ☐ Otis ☐ Republic (Non-proprietary) in Goleta. |
| | For Otis Elevators:<br>☐ Travel under 20 feet: Holeless Hydraulic Elevator.<br>☐ Travel from 15 to 44 feet 1 inch: Telescopic Holeless Hydraulic Elevator.<br>☐ Travel from 26 to 60 feet: Roped Holeless Hydraulic Elevator—where existing conditions include waterfront, hard-to-drill substrate, hazardous in-ground material or other conditions that make it expensive to drill well holes.<br>☐ Travel from 15 to 60 feet: Holed Hydraulic Elevator – where it is cost effective to drill well holes.<br>☐ Travel from 50 to 300 feet: Gen2 Machine Room-less System by Otis. |

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| **Electric Traction Elevators - 142100 (14210)** | ☐ EcoSpace, gearless system by Kone.<br>☐ Travel over 120 feet: Elevonic High-Rise Gearless System. |
| **Stairway Chairlifts - 144119** | Stair lift for straight stairways:<br>☐ XPRESS II by Garaventa.<br>Other: |
| **Wheelchair Lifts – 144200 (14420)**<br>☐ Interior<br>☐ Exterior | ☐ Acme screw lift: CDE 2 gate by National Wheel-O-Vator/ThyssenKrupp.<br>☐ Porch lift Model PL-EZE (enclosure) by Access/ThyssenKrupp.<br>☐ PL-S by Access/ThyssenKrupp.<br>Indicated the following on the Drawings:<br>☐ Number of stops. ☐ Total travel height. ☐ Platform size.<br>Configuration: ☐ Straight-thru ☐ 90 degree exit ☐ Both.<br>☐ National Wheel-O-Vator/ThyssenKrupp ☐ Access/ThyssenKrupp |

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Checklist – Revised Feb 18, 2018
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## TOILET ACCESSORIES - 102800 (10801)
## B-Bobrick Model Number (W x H x D)

A. Coordinate with Owner if toilet accessories will be Owner Furnished Owner Install (OFOI) or Owner Furnished Contractor Install (OFCI). Some jurisdiction requires showing at least the accessible accessories to check for compliance.
B. Get accessories pre-approved by client on each project, unless it's another project with same client and we're using exactly the same accessories.
C. Accessories Schedule will be:
   1. ☐ Indicated on Drawings.
   2. ☐ Specified in Section 10801.
D. Bobrick Series Names: (Price Index)
   1. Stainless steel: Contra (1.8), Trimline (1.5), and Classic (1.0).
   2. Plastic: Matrix (0.6)
E. Toilet tissue dispensers in accessible toilet compartment shall be recessed, or semi-recessed so as not to project more than 3 inches from face of wall per DSA Policy 99-07.
F. Indicate items that will be OFCI or OFOI.

| | Surface Mount | Recess Mount |
|---|---|---|
| **Toilet Seat Cover Dispenser** | ☐ Surface Mount: Classic B-221, Dispense 250 (15-3/4 x 11 x 2)<br>☐ Surface Mount: Contura B-4221. | ☐ Recessed: Classic B-301, Dispense 500 (15-5/8 x 11 x 2-5/8) $60.<br>☐ Recessed: Classic B-3013, Dispense 500 (15-5/8 x 11-1/4) $150 |
| **Toilet Tissue Dispenser** | ☐ Surface Mount: Contura B-4288.<br>☐ Surface Mount: Single-roll B-66997, Satin finish.<br>☐ Surface Mount: Classic B-2888, holds two rolls. | ☐ Semi-Recessed: Classic Multi-roll B-3888 (6-1/16 x 11-1/16 x 3-3/16, project out 2-3/4)<br>☐ Semi-Recessed: Classic Single-roll B-6677 (5 1⁄2" W x 5 1⁄4" H x 3 3⁄8" min. depth) |
| **Toilet Seat Cover and Tissue Dispenser Combo** | ☐ Partition Mount: B-3471.<br>☐ Surface Mount: B-3479. | ☐ Recessed Mount: Classic B-3474. |
| **Toilet Seat Cover and Tissue Dispenser Sanitary Napkin Disposal Combo** | | ☐ Recessed Mount: Classic B-3571. |
| **Paper Towel Dispenser** | ☐ Surface Mount: Classic B-262 (10-3/4 x 14 x 4)<br>☐ Surface Mount: Classic B-2620, similar to B-262, but with knob-latch. | ☐ |
| **Touchless Paper Towel Dispenser** | Georgia Pacific enMotion:<br>☐ Surface Mount ☐ | Recessed Mount<br>☐ Stainless steel ☐ Plastic |
| **Paper Towel Dispenser/Waste Receptacle Combo** | ☐ | ☐ Recessed: Classic B-369<br>☐ Recessed: Classic B-3944<br>☐ Semi-Recessed: Classic B-3961 (15-5/16 x 54-1/8 x 4-1/8) |
| **Waste Receptacle - Wall Mount** | ☐ Surface Mount: Classic B-275. | ☐ Semi-Recessed: Classic B-3644 (15-5/16 x 28-3/4 x 4)<br>☐ Contura B-43644 |

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| **Waste Receptacle – Floor Mount** | ☐ B-2250 with cover<br>☐ B-2260 Open-top, No Cover<br>☐ B-2280 Open-top, No Cover | ☐ |
| **Counter Under-mount** | ☐ Circular Waste Chute B-529 | |
| **Sanitary Napkin Vendor** | ☐ Surface Mount: Classic B-352 (12-1/2 x 26-3/8 x 4 to 6-3/8)<br>☐ Surface Mount: Trimline B-2800 (14-7/8 x 25-3/8 x 4-3/4) | ☐ |
| **Sanitary Napkin Disposal** | ☐ Surface Mount: Classic B-254 (10-11/16 x 15-1/8 x 4-1/16)<br>☐ Surface Mount: Contra B-270.<br>☐ Partition Mount: Classic B-354. | ☐ Recessed: Contura B-4353.<br>☐ Recessed: Classic B-353. |
| **Soap dispenser** | ☐ Surface Mount: Classic B-132 (4-13/16 x 8-1/8 x 3-7/8) $45.<br>☐ Surface Mount: Classic B-2111 (8 1/8 x 4 3/4 x 3 1/2) vertical $30.<br>☐ Surface Mount: Classic B-2112 (horizontal)<br>☐ Surface Mount: Contura B-4112. $44. | ☐ Recessed: Contura B-4063. |
| **Framed Mirror** | ☐ B-290 (Pick one of the standard sizes, 30 x 42 is not standard) | |
| **Framed Mirror w/ Shelf** | ☐ B-292 same as 290 but with shelf | |
| **Channel Framed Mirror w/ Shelf** | ☐ B-166 | |
| **Channel Framed Mirror** | ☐ B-165 | |
| **Grab Bar** | ☐ Straight, 1-1/4 diameter, B-5806 (12, 18, 24, 30, 36, 42, 48), concealed with flange mount.<br>☐ Straight, 1-1/2 diameter, B-6106 (18 to 48), exposed mount.<br>☐ Straight, 1-1/2 diameter, B-6806 (18 to 48), concealed with flange mount.<br>☐ Straight, 1-1/2 diameter, B-6806.99 (18 to 48), concealed with flange mount with satin, peened nonslip gripping surface.<br>☐ L shape, Wheelchair Toilet Compartment, B-5837 (36 x 54)<br>☐ L shape, | |

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| | Tub/Shower/Toilet, B-58616 (32 x 28)<br>☐ L shape, Tub/Shower/Toilet, B-6861.<br>☐ Drinking Fountain Wing Wall: 3800 Series, Type 75 by ASI. | |
| **Diaper Changing Station** | ☐ Surface: Bobrick/Koala Kare KB110-SSWM. | ☐ Semi-Recessed: B-2210 (30-3/4 x 18-3/4 x 2-1/2)<br>☐ Recessed: Bobrick/Koala Kare KB100-00ST. |
| **Robe Hook** | ☐ B-7671 Bright polished, Single (2 by 2 flange, project out 1-5/8).<br>☐ B-76717 Satin-finish. | |
| **Hat and Coat Hook** | ☐ B-682 Bright polished.<br>☐ B-6827 Satin finish. | |
| **Electric Hand Dryer** | ☐ Push button activation: Model A by World Dryer.<br>☐ Motion activation: Model XA5 by World Dryer. | ☐ Motion activation: Bobrick B-750. |
| **Mop and Broom Holder** | ☐ B-223 x 24, 3 Holder (24 inches)<br>☐ B-223 x 36, 4 Holder (36 inches) | |
| **Shower Soap Dish** | | ☐ Recessed: B-4390. |
| **Folding Shower Seat** | ☐ B-5181 Reversible Solid Phenolic (33 x project out 22-5/16)<br>☐ B-5191 Shower Seat Solid Phenolic (18 x project out 15-13/16)<br>☐ B-517 Padded Shower Seat.<br>☐ Bradley-9569 Reversible Solid Phenolic (34-1/2 x project out 22) good for 36 inch minimum requirements of UBC Figure 11B-2A Roll-In Shower. | |
| **ADA Accessible Signage** | ☐ Section 10431 | |
| **Plumbing Section** | ☐ Hi/Lo Drinking Fountain, Vanity, Toilet, Urinal, Faucets | |

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## SPECIAL CONSTRUCTION

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|---|---|
| **Cold Storage Rooms** | ☐ by food service equipment consultant<br>Installation: ☐ Outdoor ☐ Indoor<br>Type: ☐ Freezer ☐ Refrigerator<br>Vendor: _____ |
| **Food Service Equipment – 114000 (11400)** | ☐ As listed on Drawings (by food service equipment consultant) |
| **Appliances – 113100 (11451)** | Cooktop: ☐ Electric ☐ Gas<br>Oven: ☐ Electric ☐ Gas<br>☐ Exhaust Hood<br>☐ Refrigerator<br>☐ Freezer<br>☐ Dishwasher<br>☐ Microwave Oven |
| **Pre-Engineered buildings - 133500** | Pre-engineered (metal ) building systems:<br>Structural steel framing system. Metal roof system. Metal trim.<br>Basis of Design: ☐ Butler |
| **Modular Class Room Buildings (relocatables) – Not a section but scope of work** | ☐ Relocate existing modular class room buildings.<br>☐ Refurbish existing modular class room buildings.<br>☐ _____ |

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## DIVISION 1 SECTIONS

| | |
|---|---|
| **Mock-ups** | List: |
| | Project management and Coordination - 013100 (01310).<br>Conduct progress meetings at intervals of:<br>☐ Weekly ☐ Bi-Weekly ☐ Monthly ☐ Regular. |
| **Submittals** | Submittal Procedures - 013300 (01330)<br>Process Time: 21 days. Architect will request for more time if needed.<br>Shop Drawings:<br>☐ 1 set of reproducible mylars and 3 sets of prints.<br>☐ 4 sets of prints (no mylars). |
| **Temp Utilities** | Temporary Facilities and Controls - 015000 (01500)<br>Usage paid and provided for:<br>Sewer Service: ☐ Contractor ☐ Owner ☐ Owner but will be billed.<br>Water Service: ☐ Contractor ☐ Owner ☐ Owner but will be billed.<br>Sanitary Facilities: ☐ Contractor ☐ Owner ☐ Owner but will be billed.<br>☐ Portable Chain-Link Fencing.<br>☐ Wind Screen Fabric: Green. |
| **Temp field office (trailer)** | Temporary Facilities and Controls - 015000 (01500)<br>☐ Trailer and office supplies. |
| **Warranty starts** | ☐ at Substantial Completion ☐ Other: _____ |

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| **Contractor Working Hours** | Summary - 011000 (01100)<br>☐ 8 am - 5 pm ☐ per General Conditions ☐ per Supplementary Conditions. |
| **Temporary Facilities** | Use of existing facilities:<br>☐ Toilet Facilities<br>☐ Electrical Power.<br>☐ Elevators.<br>☐ Other _____<br>☐ All provided by Contractor. |
| **Lock Preference** | Schlage: ☐ Primus ☐ Generic.<br>Sargent: ☐ Primus ☐ Generic. |
| **Toilet Accessories** | ☐ Get accessories pre-approved by client on each project, unless it's another project with same client and we're using exactly the same accessories. |
| **Temporary Trailer** | ☐ Need it<br>☐ Not need it ☐ Use existing structure, location to be determined.<br><br>Used by: ☐ IOR ☐ CM ☐ Architect ☐ Owner<br><br>Equipment in Temp Trailer - List: ☐ See General Conditions<br>With the current use of cell phones, equipment has become less important<br>☐ Conference Desk (1)/ chairs (10 minimum).<br>☐ Filing cabinet.<br>☐ Phone.<br>☐ Computer.<br>☐ Cable/DSL broadband Internet connection.<br>☐ Water service.<br>☐ Other: _____ |
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## THEATER PROJECTS

DIVISION 6 - WOOD AND PLASTICS
☐ 06401 Architectural Woodwork - ☐ new or ☐ refurbish/restoration

DIVISION 8 - DOORS AND WINDOWS
☐ 08346 Sound-Control Door Assemblies

DIVISION 9 – FINISHES
☐ 09000 Sound Absorptive Acoustical Finish System
☐ 09210 Gypsum Plaster
☐ 09215 Gypsum Veneer Plaster
☐ 09645 Stage-Floor Assemblies - ☐ new or ☐ refurbish

DIVISION 11 – EQUIPMENT
☐ 11066 Rigging - by AV consultant
☐ 11525 Projection Screen - by AV consultant

DIVISION 12 - FURNISHINGS
☐ 12710 Theater Seating – ☐ new or ☐ refurbish

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## GREENHOUSE

| | |
|---|---|
| Basis of Design | ☐ Winandy Greenhouse Company<br>2211 Peacock Road Richmond<br>Indiana \| (765) 935-2111<br>http://www.winandygreenhouse.com<br>☐ Other _____ |
| Style | ☐ Free-standing ☐ Gable Connect ☐ Lean-to ☐ Gutter Connected |
| Greenhouse Skin | Glass (pane): ☐ Single ☐ Double ☐ Triple.<br>☐ Polycarbonate panels: 8mm 16mm (5/8") Corrugated<br>☐ Acrylic panels: 8mm 16mm (5/8") Corrugated<br>☐ Other _____ |
| Side Wall Design<br>Operator: | ☐ Manual ☐ Motorized |
| Roof Ventilators | ☐ None ☐ 1 ☐ 2 ☐ Other |
| Screens | ☐ Yes ☐ No |
| Heating | ☐ gas unit heaters<br>☐ oil unit heaters<br>☐ hydronic heating<br>☐ electric heaters |
| Growth light | ☐ Yes ☐ No |
| Shade/energy curtains | ☐ Yes ☐ No |
| Fire retardant | ☐ Yes ☐ No |
| Controls | ☐ none<br>☐ computer interface<br>☐ weather station and computer interface<br>☐ weather station |

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## REHABILITATION OF HISTORIC BUILDINGS

| | |
|---|---|
| | 02071 Selective Historical Demolition |
| | 03450 Glass Fiber Reinforced Cement (GFRC) |
| | Masonry Restoration & Cleaning (painted brick masonry) |
| | Masonry Repair and Repointing |
| | 05511 Metal Restoration & Cleaning (architectural cast iron) |
| | 06401 Architectural Woodwork Restoration |
| | 07601 Sheet Metal Restoration & Cleaning (architectural sheet metal) |
| | 08701 Finish Hardware Restoration & Cleaning |
| | 09900 Painting |
| | |

END